



FCC Test Report

FCC ID: 2BWD9-KDAW01

Applicant: Shenzhen Jin Da hui plastic products Co.,Ltd.

Address: No.43, Longfeng Road, Xinsheng Community, Longgang Street, Longgang District, Shenzhen City, Guangdong Province, China

Manufacturer: Shenzhen Jin Da hui plastic products Co.,Ltd.

Address: No.43, Longfeng Road, Xinsheng Community, Longgang Street, Longgang District, Shenzhen City, Guangdong Province, China

Product Name: 3in1 UV STERILIZE BOX WIRELESS CHARGER AROMATHERAPY DIFFUSER

Trade Mark: N/A

Model Number: KDAW01

Date of Receipt: Nov. 27, 2025

Test Date: Nov. 27, 2025 ~ Jun. 04, 2026

Date of Report: Jun. 04, 2026

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

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Applicable Standards: FCC CFR 47 PART 18

Test Result: Pass

Report Number: DLE-260604004R

Prepared by(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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**** Issued history ****

Revision	Description	Issued Date	Remark
Revision 1.0	Initial Test Report Release	Jun. 04, 2026	



1. Summary

1.1 Test Procedures and Results

Test Item	Standard Section	Result
AC Conducted Emissions Test	18.307	PASS
Radiated Emission Test	18.305	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

1.2 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 %.

No.	Item	Uncertainty
1	Conducted Emission Uncertainty(150KHz-30MHz)	$\pm 2.56\text{dB}$
2	Radiated Emission Uncertainty(9KHz-1GHz)	$\pm 3.24\text{dB}$



2. General Information

2.1 General Description of EUT

Product Name:	3in1 UV STERILIZE BOX WIRELESS CHARGER AROMATHERAPY DIFFUSER
Model Name:	KDAW01
Series Model(s):	N/A
Model Difference:	N/A
Antenna Type:	Coil Antenna
Operation Frequency:	112KHz~205KHz
Test Frequency:	112KHz
Modulation Type:	ASK
Power Source:	Input: DC5V/1A MAX Wireless Output: 7.5W
Power Rating:	Input: DC5V/1A MAX Wireless Output: 7.5W
Note: 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2. Antenna gain values are provided by the customer. 3. The cable loss data is obtained from the supplier. 4. The test results in the report only apply to the tested sample.	



2.2 Carrier Frequency of Channels

Operation Frequency each of channel	
Channel	Frequency
Middle CH	112KHz

2.3 Operation of EUT during Testing

Test Item	Test mode	Description
Radiated & AC Conducted Test Cases	Mode 1	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: <1%)
	Mode 2	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: <50%)
	Mode 3	AC/DC Adapter+ EUT + Mobile Phone (Battery Status: >95%)
Note: 1. All modes and configurations above have been tested, Only the result of the worst case was recorded in the report. 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode. 3. The Mobile Phone provided by Lab. 4. According to the manufacturer's design principle, the wireless charging power will reach its maximum when the client device's battery level is between 1% and 10%.		



2.4 Description of Test Setup

Operation of EUT during Testing:



The sample was placed (0.8m (30MHz~1GHz), 0.8m (9KHz~30MHz)) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.



2.5 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Product Name	Trade Mark	Model Name	Specification	Note
1	3in1 UV STERILIZE BOX WIRELESS CHARGER AROMATHERAPY DIFFUSER	N/A	KDAW01	N/A	EUT
2	USB Cable	N/A	N/A	N/A	Peripheral
3	Adapter	N/A	CD289	Input: AC100-240V, 50/60Hz, 2A Max USB-C1 Output: DC5V/3A, 9V3A, 12V/3A, 15V/3A, 20V/5A, 28V/5A 140W MAX USB-C2 Output: DC5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A 100W MAX USB-A Output: DC5V/4.5A, 4.5V/5A, 5V/3A, 9V/2A, 12V/1.5A 22.5W MAX Total Output: 140W Max	Peripheral
4	Mobile phone	OPPO	Find X8	N/A	Peripheral

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. Wireless load (Load 1) is a device containing rechargeable batteries or capacity loads, connected via charging control circuit that receives power from a source via a coupling antenna.



2.6 Measurement Instruments List

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	431071	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	CE Cable	002	Oct. 25, 2025	Oct. 24, 2026

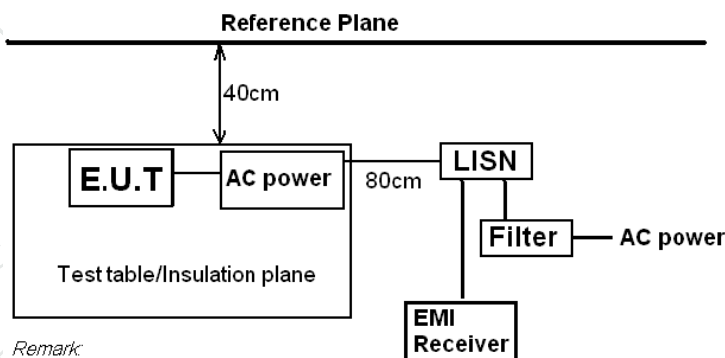
For Radiated Emission Test (966 chamber)

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
Loop Antenna	ZHINAN	ZN30900A	/	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



3. AC Conducted Emission Test

3.1 Block Diagram of Test Setup



Remark:

E.U.T: Equipment Under Test

LISN: Line Impedance Stabilization Network

Test table height=0.8m

3.2 Conducted Power Line Emission Limit

According to FCC Part 18.307(b)

Frequency (MHz)	Maximum RF Line Voltage (dBμV)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §18.307 Line Conducted Emission Limit is same as above table.

3.3 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.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/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.

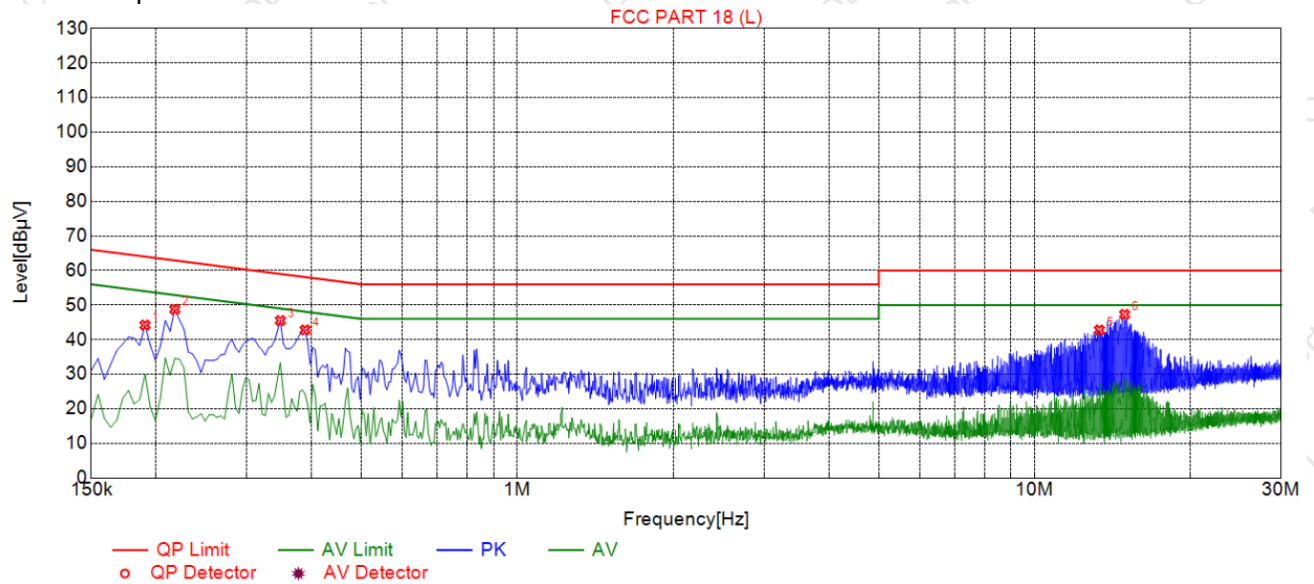


3.4 Test Result

PASS

All the test modes completed for test. Only the worst result was reported as below:

Test Specification: Line



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1905	44.22	19.78	64.01	19.79	24.44	PK	L
2	0.2175	48.75	19.85	62.91	14.16	28.90	PK	L
3	0.3480	45.52	19.83	59.01	13.49	25.69	PK	L
4	0.3885	42.81	19.84	58.10	15.29	22.97	PK	L
5	13.3530	42.78	21.60	60.00	17.22	21.18	PK	L
6	14.9370	47.30	21.85	60.00	12.70	25.45	PK	L

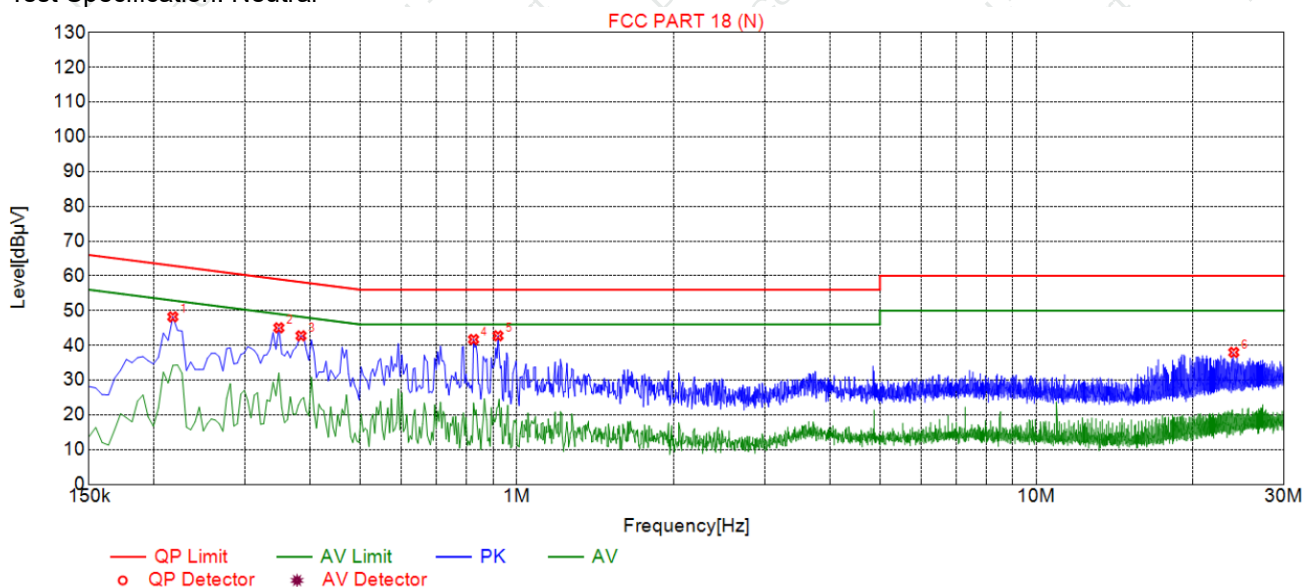
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2175	48.20	19.66	62.91	14.71	28.54	PK	N
2	0.3480	45.06	19.68	59.01	13.95	25.38	PK	N
3	0.3840	42.75	19.71	58.19	15.44	23.04	PK	N
4	0.8250	41.69	19.76	56.00	14.31	21.93	PK	N
5	0.9195	42.75	19.76	56.00	13.25	22.99	PK	N
6	24.0045	37.98	24.10	60.00	22.02	13.88	PK	N

Remark: Margin = Limit – Level

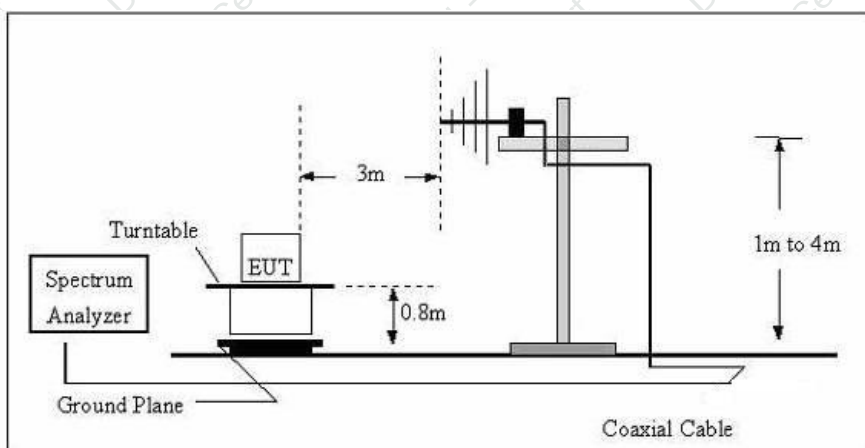
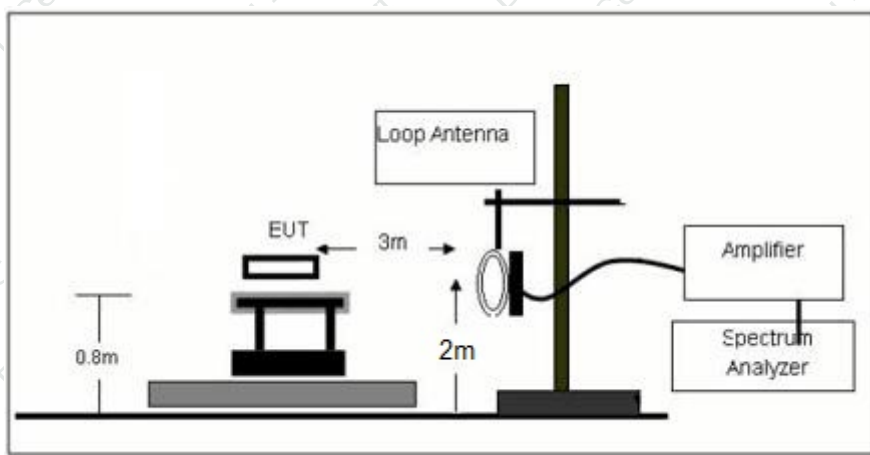
Correction factor = Cable loss + LISN insertion loss

Level=Test receiver reading + correction factor



4. Radiated Emissions

4.1 Block Diagram of Test Setup





4.2 Rules and Specifications

Except as provided elsewhere in this Subpart 18.305 (b), the field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following table:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
(miscellaneous)				
	Any non-ISM frequency	Below 500 500 or more	15 15 × SQRT(power/500)	300 1300

Remark:

- (1) Emission level dBuV/m for 0.009~30MHz = $20\log(15) + 40\log(300/3)$ dBuV/m;
- (2) Calculated according FCC 18.305.
- (3) The smaller limit shall apply at the cross point between two frequency bands.
- (4) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3 Test Procedure

Measurement distance 3m

For the measurement range up to 30MHz in the following plots the field strength result from 3m
Distance measurements are extrapolated to 300m and 30m distance respectively, by 40dB/decade, Per antenna factor scaling.

Measurements below 1000MHz are performed with a peak detector and compared to average limits;
Measurements with an average detector are not required.

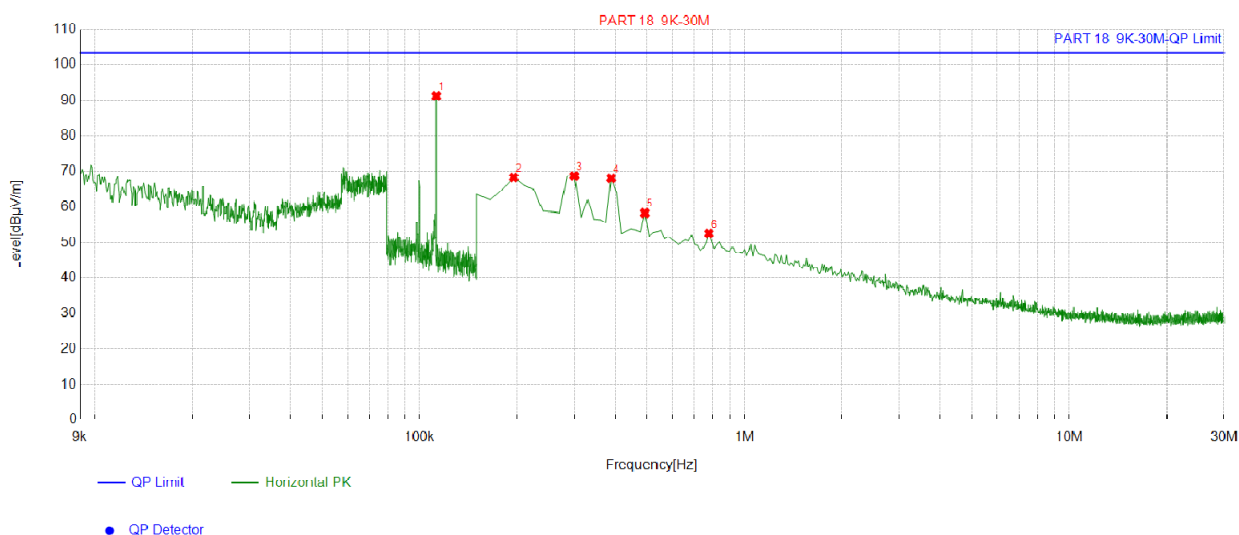


4.4 Test Result

PASS

Note: All the test modes completed for test. Only the worst result was reported as below:

For 9KHz - 30MHz



Suspected List

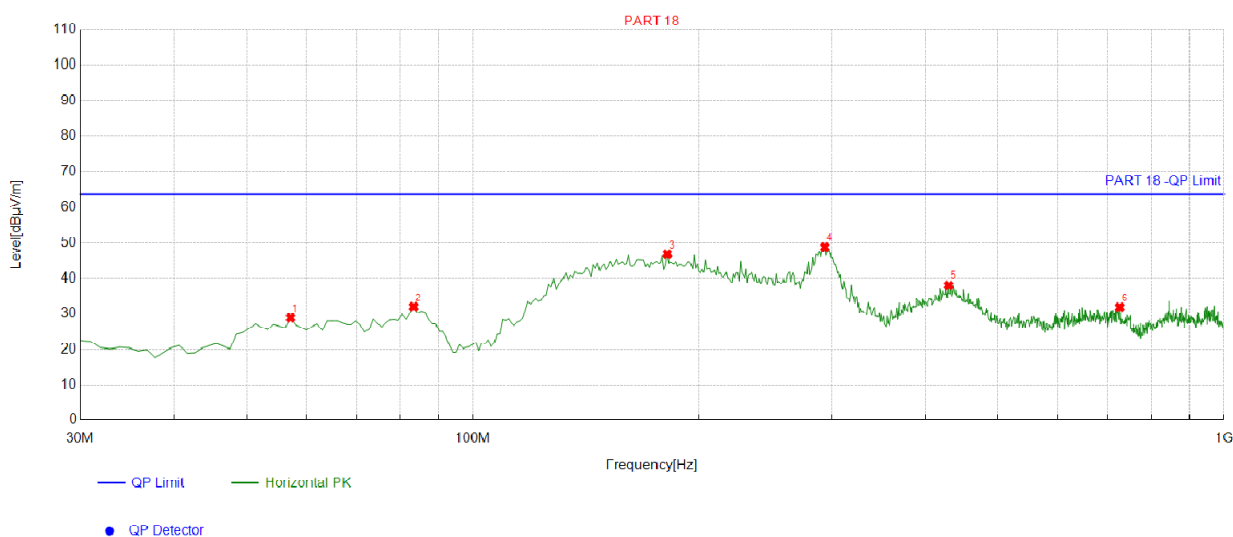
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]
1	0.1125	20.39	70.91	91.30	103.50	12.20
2	0.1948	20.42	47.90	68.32	103.50	35.18
3	0.2993	20.03	48.71	68.74	103.50	34.76
4	0.3889	20.12	47.97	68.09	103.50	35.41
5	0.4934	20.23	38.03	58.26	103.50	45.24
6	0.7772	20.26	32.36	52.62	103.50	50.88

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



For 30MHz-1GHz

Antenna polarity: Horizontal



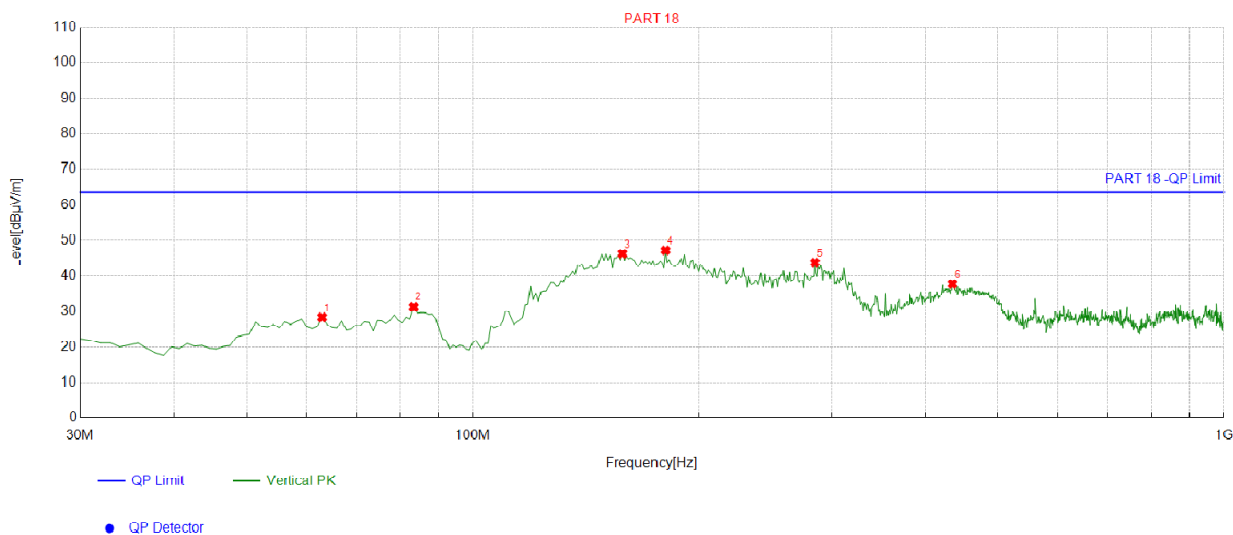
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	57.1872	-13.76	42.65	28.89	63.50	34.61	100	230	Horizontal
2	83.4034	-18.05	50.08	32.03	63.50	31.47	100	74	Horizontal
3	181.4715	-16.13	62.92	46.79	63.50	16.71	100	77	Horizontal
4	294.1041	-11.94	60.72	48.78	63.50	14.72	100	135	Horizontal
5	430.0400	-8.72	46.83	38.11	63.50	25.39	100	262	Horizontal
6	726.1862	-3.92	35.80	31.88	63.50	31.62	100	150	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Antenna polarity: Vertical



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	63.0130	-14.48	42.88	28.40	63.50	35.10	100	295	Vertical
2	83.4034	-18.05	49.38	31.33	63.50	32.17	100	169	Vertical
3	158.1682	-17.83	64.09	46.26	63.50	17.24	100	184	Vertical
4	180.5005	-16.33	63.54	47.21	63.50	16.29	100	100	Vertical
5	285.3654	-12.45	56.19	43.74	63.50	19.76	100	3	Vertical
6	434.8949	-9.04	46.67	37.63	63.50	25.87	100	234	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



5. Antenna Requirement

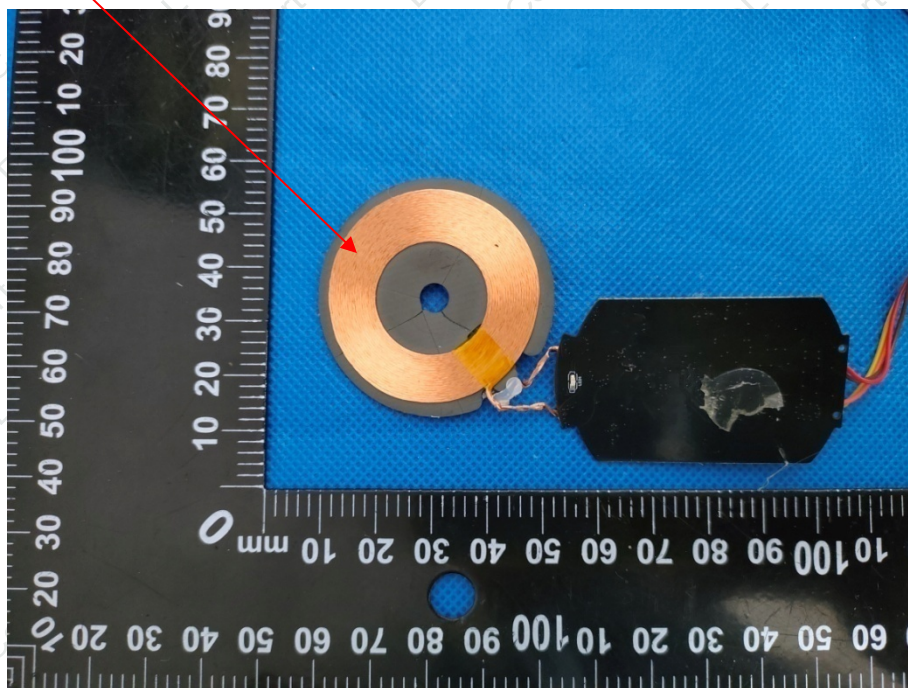
Refer to statement below for compliance.

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 Coil Antenna, which permanently attached. It conforms to the standard requirements.

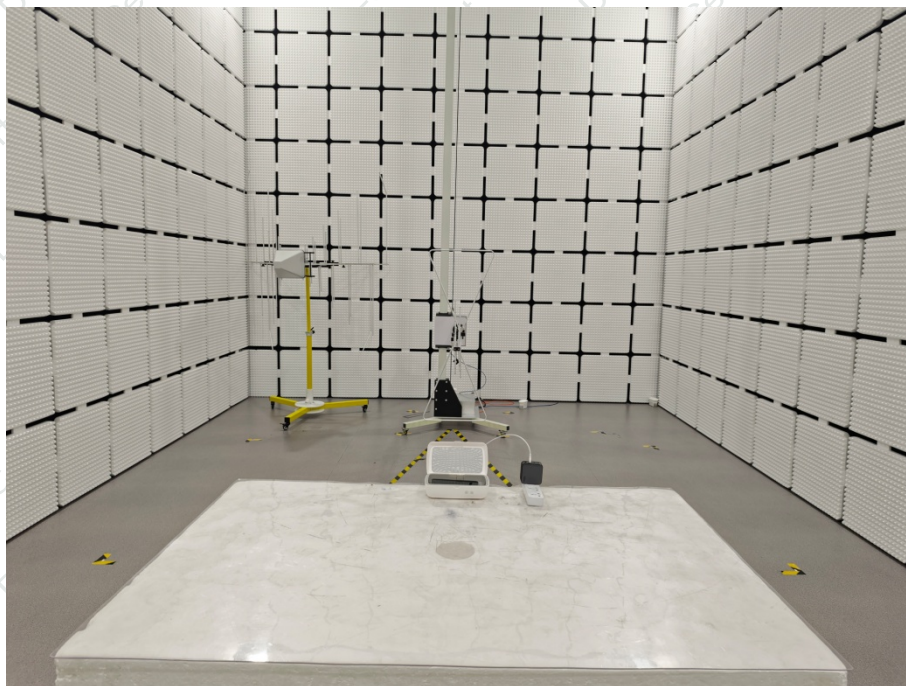
Antenna





6. Test Setup Photos of the EUT

Radiated Emission





AC Conducted Emission





7. Photos of the EUT

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

-----End of test report-----