

# FCC RADIO TEST REPORT

**FCC ID: 2A5K5-MWCS7S1**

**Sample :** Mooas Crystal Lamp 3 in1 Magsafe Stand

**Trade Mark :** N/A

**Main Model :** MWCS7S1

**Additional Model :** N/A

**Report No. :** UNIA24052814ER-61

## Prepared for

Mooas Inc.

C-819-822, Munjeong Hyundai Knowledge Industry Center, 7,  
Beobwon-ro 11-gil, Songpa- gu, Seoul, Korea, South Korea 05836

## Prepared by

Shenzhen United Testing Technology Co., Ltd.

D101&D401, No. 107, Kaicheng High-Tech Park, Taoyuan Community,  
Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China

## TEST RESULT CERTIFICATION

**Applicant** ..... : Mooas Inc.

**Address** ..... : C-819-822, Munjeong Hyundai Knowledge Industry Center, 7,  
Beobwon-ro 11-gil, Songpa- gu, Seoul, Korea, South Korea 05836

**Manufacturer** ..... : Shenzhen Sunrise Industry Co., LTD

**Address** ..... : Floor 4,Building E,HuaChuangDa,No.42 District Baoan,  
Shenzhen City,Guangdong Province,P.R.China.

### Product description

**Product** ..... : Mooas Crystal Lamp 3 in1 Magsafe Stand

**Trade Mark** ..... : N/A

**Model Name** ..... : MWCS7S1

**Test Methods** ..... : FCC Rules and Regulations Part 15 Subpart C Section 15.209  
ANSI C63.10: 2013

This device described above has been tested by Shenzhen United Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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### Date of Test

**Date (s) of performance of tests** ..... : May 29, 2024 ~ Jun. 05, 2024

**Date of Issue** ..... : Jun. 06, 2024

**Test Result** ..... : Pass

Prepared by:



Jason Ye/Editor

Reviewer:



Kelly Cheng/Supervisor

Approved & Authorized Signer:



Liuze/Manager

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## 1 TEST SUMMARY

### 1.1 TEST PROCEDURES AND RESULTS

Item	FCC Rules	Description Of Test	Result
1	FCC Part 15.207	Conducted Emission	Pass
2	FCC Part 15.209(a)	Radiated Emission	Pass
3	FCC Part 15.203	Antenna Requirement	Pass

### 1.2 TEST FACILITY

Test Firm : Shenzhen United Testing Technology Co., Ltd.  
Address : D101&D401, No. 107, Kaicheng High-Tech Park, Taoyuan Community,  
Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

A2LA Certificate Number: 4747.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 674885

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 31584

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.

### 1.3 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:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
UNI	ANSI	9KHz ~ 150KHz	2.96	
		150KHz ~ 30MHz	2.44	

#### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
UNI	ANSI	9KHz ~ 30MHz	2.50	
		30MHz ~ 1000MHz	4.80	
		1000MHz ~ 6000MHz	4.13	

## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>Product:</b>	Mooas Crystal Lamp 3 in1 Magsafe Stand
<b>Trade Mark:</b>	N/A
<b>Main Model:</b>	MWCS7S1
<b>Additional Model:</b>	N/A
<b>Model Difference:</b>	N/A
<b>FCC ID:</b>	2A5K5-MWCS7S1
<b>Operation Frequency:</b>	Phone: 110-205kHz Earphone: 110-205kHz Watch: 326.5kHz
<b>Modulation Type:</b>	ASK
<b>Wireless Charging Output Power:</b>	5W/7.5W/10W/15W(MAX)
<b>Antenna Type:</b>	Coil Antenna
<b>Antenna Gain:</b>	0dBi
<b>Battery:</b>	N/A
<b>Adapter:</b>	N/A
<b>Power Source:</b>	DC 5V or 9V by adapter

## 2.2 CARRIER FREQUENCY OF CHANNELS

Test Channel					
ANT	Frequency (kHz)	ANT	Frequency (kHz)	ANT	Frequency (kHz)
01	132.9	02	156.1	03	326.5

## 2.3 TEST MODE

NO.	TEST MODE DESCRIPTION
1	ANT 1(Phone coil) + Full load
2	ANT 1(Phone coil) + Half load
3	ANT 1(Phone coil) + Null load
7	ANT 2(Earphone coil) + Full load
8	ANT 2(Earphone coil) + Half load
9	ANT 2(Earphone coil) + Null load
10	ANT 3(Watch coil) + Full load
11	ANT 3(Watch coil) + Half load
12	ANT 3(Watch coil) + Null load
13	ANT 1(Phone coil) + ANT 2(Earphone coil) + ANT 3(Watch coil) + Full load
14	ANT 1(Phone coil) + ANT 2(Earphone coil) + ANT 3(Watch coil) + Half load
15	ANT 1(Phone coil) + ANT 2(Earphone coil) + ANT 3(Watch coil) + Null load
Note: The mode 13 was the worst case and only the data of the worst case record in this report.	

## 2.4 TEST SETUP

Operation of EUT during testing:



## 2.5 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Mooas Crystal Lamp 3 in1 Magsafe Stand	N/A	MWCS7S1	EUT
E-2	Adapter	Xiaomi	MDY-11-EX	AE
E-3	WPT Station (15W/10W/7.5W/5W)	N/A	N/A	AE
E-4	Earphone	APPLE	AirPods Pro2	AE
E-5	Watch	Samsung	Watch5Pro	AE

Note:

1. The support equipment was authorized by Declaration of Confirmation.
2. All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

## 2.6 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
Conduction Emissions Measurement					
1	Conducted Emission Test Software	EZ-EMC	Ver.CCS-3A1-CE	N/A	N/A
2	AMN	Schwarzbeck	NNLK8121	8121370	2024.06.11
3	AAN	TESEQ	T8-Cat6	38888	2024.06.11
4	Pulse Limiter	CYBRTEK	EM5010	E115010056	2024.06.11
5	EMI Test Receiver	Rohde&Schwarz	ESCI	101210	2024.06.11
Radiated Emissions Measurement					
1	Radiated Emission Test Software	EZ-EMC	Ver.CCS-03A1	N/A	N/A
2	Horn Antenna	Sunol	DRH-118	A101415	2025.07.14
3	Broadband Hybrid Antenna	Sunol	JB1	A090215	2025.07.28
4	PREAMP	HP	8449B	3008A00160	2024.06.11
5	PREAMP	HP	8447D	2944A07999	2024.06.11
6	EMI TEST RECEIVER	Rohde&Schwarz	ESR3	101891	2024.06.11
7	VECTOR Signal Generator	Rohde&Schwarz	SMU200A	101521	2024.06.11
8	Signal Generator	Agilent	E4421B	MY4335105	2024.06.11
9	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2024.06.11
10	MXA Signal Analyzer	Keysight	N9020A	MY51110104	2024.06.11
11	RF Power sensor	DARE	RPR3006W	15I00041SNO88	2024.06.11
12	RF Power sensor	DARE	RPR3006W	15I00041SNO89	2024.06.11
13	RF power divider	Anritsu	K241B	992289	2024.06.11
14	Wideband radio communication tester	Rohde&Schwarz	CMW500	154987	2024.06.11
15	Active Loop Antenna	Com-Power	AL-130R	10160009	2024.06.11
16	Broadband Hybrid Antennas	Schwarzbeck	VULB9163	VULB9163#958	2024.09.22
17	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1680	2025.07.14
18	Horn Antenna	A-INFOMW	LB-180400-KF	J211060660	2024.07.14
19	Microwave Broadband Preamplifier	Schwarzbeck	BBV 9721	100472	2024.09.22
20	Signal Generator	Agilent	N5183A	MY47420153	2024.09.22
21	Spectrum Analyzer	Rohde&Schwarz	FSP 40	100501	2024.09.22
22	Power Meter	KEYSIGHT	N1911A	MY50520168	2024.09.22
23	Frequency Meter	VICTOR	VC2000	997406086	2024.09.22
24	DC Power Source	HYELEC	HY5020E	055161818	2024.09.22



### 3.3 TEST PROCEDURE

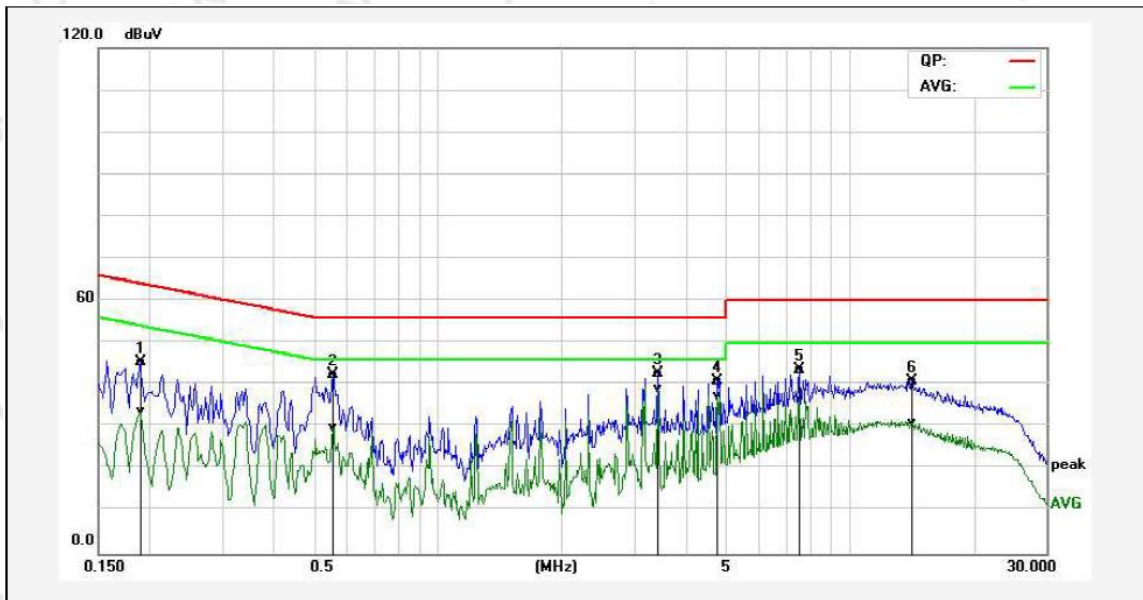
1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is placed on a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI C63.10.
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

Remark: EUT was tested at AC 120V and 240V, only the worst result of AC 120V was reported.

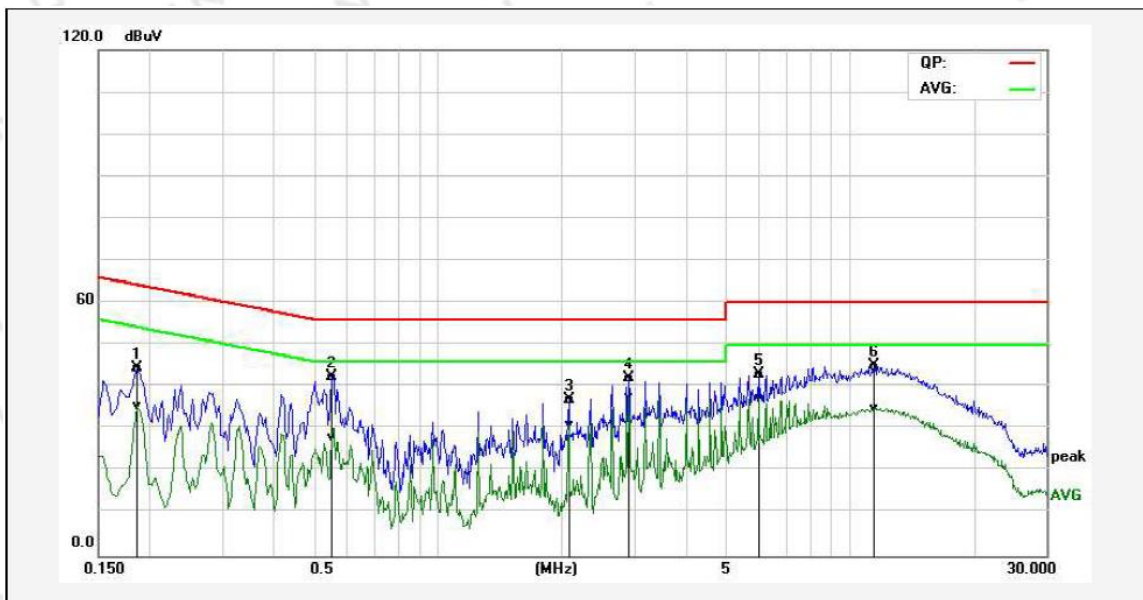
Temperature:	26°C	Relative Humidity:	60%
Test Date:	Jun. 04, 2024	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Line
Test Mode:	Transmitting mode 13		



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.1900	34.66	23.13	10.69	45.35	33.82	64.04	54.04	-18.69	-20.22	Pass
2P	0.5580	31.86	19.14	10.70	42.56	29.84	56.00	46.00	-13.44	-16.16	Pass
3*	3.4220	31.40	27.85	11.28	42.68	39.13	56.00	46.00	-13.32	-6.87	Pass
4P	4.7700	29.24	25.58	11.62	40.86	37.20	56.00	46.00	-15.14	-8.80	Pass
5P	7.5260	31.19	24.22	12.40	43.59	36.62	60.00	50.00	-16.41	-13.38	Pass
6P	14.1900	25.44	15.66	15.51	40.95	31.17	60.00	50.00	-19.05	-18.83	Pass

Remark: 1. Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.  
2. The test mode 13 was the worst case and only the data of the worst case record in this report.

Temperature:	26°C	Relative Humidity:	60%
Test Date:	Jun. 04, 2024	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Neutral
Test Mode:	Transmitting mode 13		



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1P	0.1860	33.92	24.79	10.72	44.64	35.51	64.21	54.21	-19.57	-18.70	Pass
2P	0.5540	31.75	17.30	10.70	42.45	28.00	56.00	46.00	-13.55	-18.00	Pass
3P	2.0780	26.10	20.23	10.94	37.04	31.17	56.00	46.00	-18.96	-14.83	Pass
4*	2.9140	30.90	26.63	11.17	42.07	37.80	56.00	46.00	-13.93	-8.20	Pass
5P	5.9980	31.16	25.34	11.92	43.08	37.26	60.00	50.00	-16.92	-12.74	Pass
6P	11.4380	30.93	20.79	14.07	45.00	34.86	60.00	50.00	-15.00	-15.14	Pass

Remark: 1.Factor = Insertion Loss + Cable Loss, Result = Reading + Factor, Margin = Result – Limit.

2. The test mode 13 was the worst case and only the data of the worst case record in this report.

## 4 RADIATED EMISSION

### 4.1 TEST LIMIT

CFR 47 Part 15, section 15.205

Only spurious emissions are permitted in any of the frequency bands listed the tables in these sections:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(12)
13.36-13.41			

CFR 47 Part 15, section 15.209

The emissions from an intentional radiator shall not exceed the limits in the tables in these sections using an average detector:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F (kHz)	300
0.490-1.705	24000/F (kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Limit calculation and transfer to 3m distance as showed in the following table:

Frequency (MHz)	Limit (dBuV/m)	Distance (m)
0.009-0.490	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	3
0.490-1.705	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	3
1.705-30.0	69.5	3
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

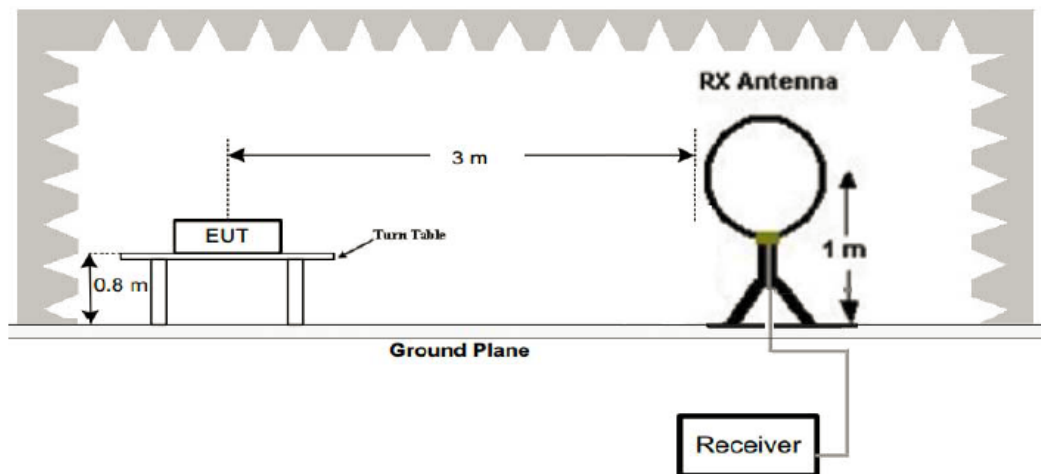
CFR 47 Part 15, section 15.35

When average radiated emission measurements are specified, the limit on the peak level of the radio Frequency emission is 20dB above the maximum permitted average emission limit.

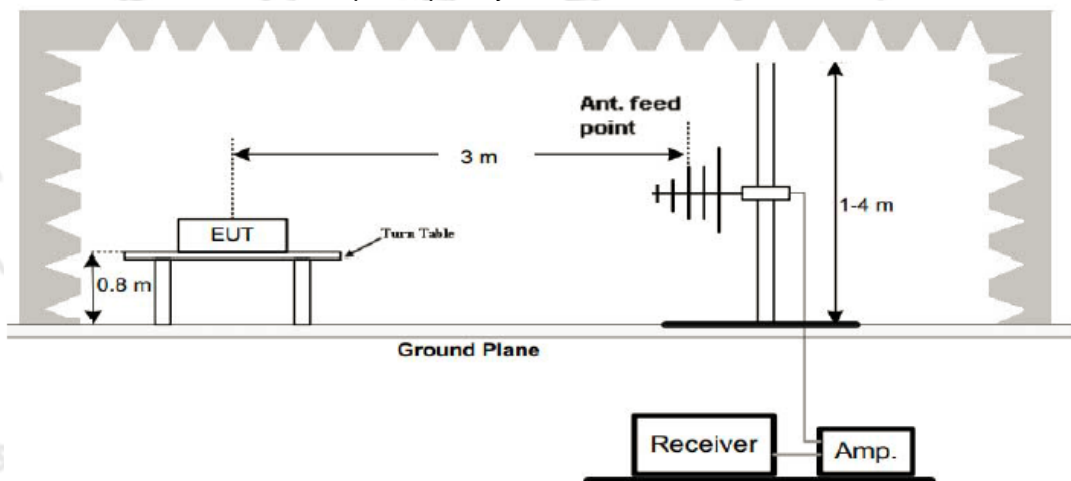
Transmitter Spurious Emissions 9KHz-30MHz			
	9-150KHz	150-490KHz	490KHz-30MHz
Resolution Bandwidth	200Hz	9KHz	9KHz
Video Bandwidth	2KHz	100KHz	100KHz
Detector	Peak	Peak	Peak
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep Time	Auto	Auto	Auto

## 4.2 TEST SETUP

### 1. Radiated Emission Test-Up Frequency Below 30MHz



### 2. Radiated Emission Test-Up Frequency 30MHz~1GHz



### 4.3 TEST PROCEDURE

1. Measurement distance is 3m.
2. For the measurement range up to 30MHz in the following plots the field strength result from 3m.
3. Distance measurement are extrapolated to 300m and 30m distance respectively, by 40dB/decade. According to part 15.31(f)(2), per antenna factor scaling.
4. Measurements below 1000MHz are performed with a peak detector and compared to average limits. Measurements with an average detector are not required.

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

### 4.4 TEST RESULT

PASS

For 9KHz-30MHz Test Results:

ANT1(Phone coil):

Frequency (MHz)	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limits 3m (dBuV/m)	Margin (dBuV/m)
0.1329	PK	70.27	15.46	85.73	104.71	-18.98
0.642	PK	65.41	15.61	81.02	91.24	-10.22
0.758	PK	62.79	15.34	78.13	90.11	-11.98
0.822	PK	37.08	15.92	53.00	89.38	-36.38
1.738	PK	28.63	16.24	44.87	82.78	-37.91
2.527	PK	32.28	15.27	47.55	79.56	-32.01
4.753	PK	31.87	15.61	47.48	74.01	-26.53
8.265	PK	31.52	15.63	47.15	69.27	-22.12

ANT2(Earphone coil):

Frequency (MHz)	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limits 3m (dBuV/m)	Margin (dBuV/m)
0.1561	PK	65.47	15.61	81.08	105.42	-24.34
0.705	PK	65.53	15.61	81.14	90.60	-9.46
0.751	PK	62.86	15.34	78.20	90.03	-11.83
0.818	PK	37.11	15.92	53.03	89.42	-36.39
1.736	PK	28.57	16.24	44.81	82.81	-38.00
2.527	PK	32.22	15.27	47.49	79.57	-32.08
4.784	PK	31.54	15.61	47.15	74.01	-26.86
8.256	PK	31.66	15.63	47.29	69.27	-21.98

## ANT3(Watch coil):

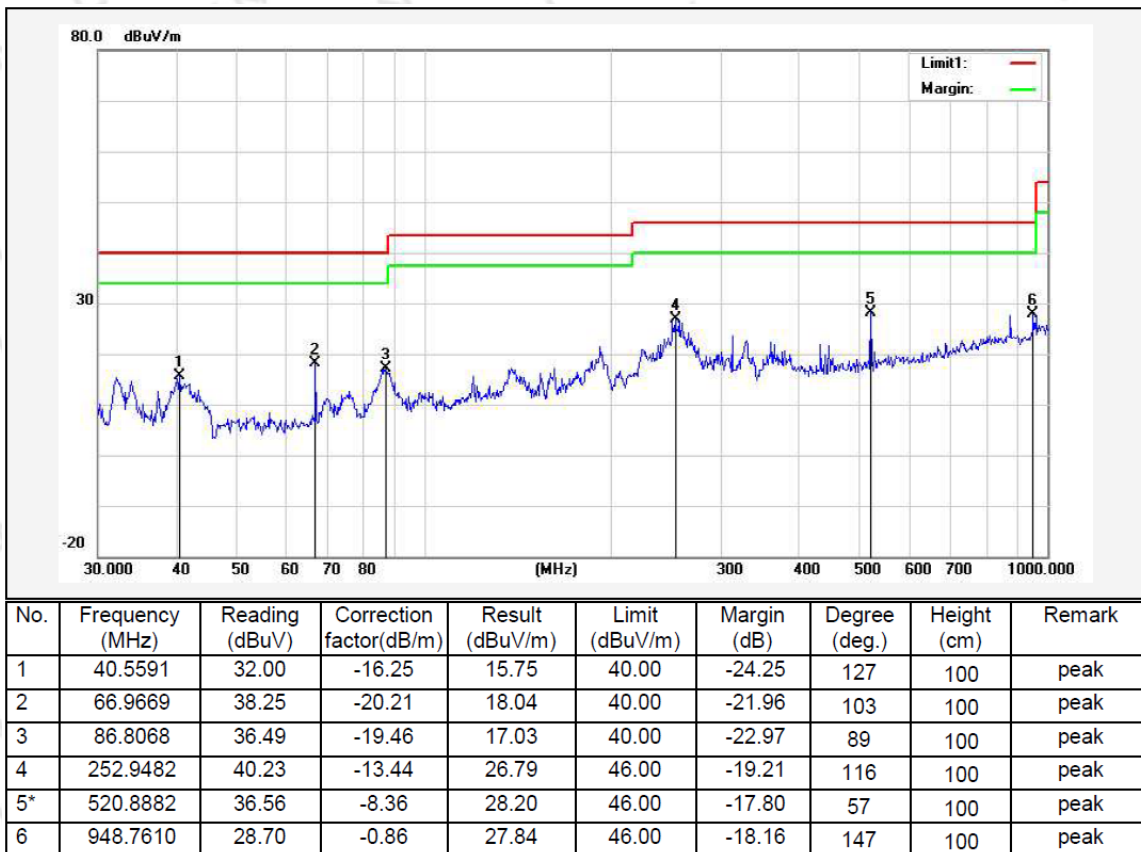
Frequency (MHz)	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limits 3m (dBuV/m)	Margin (dBuV/m)
0.3265	PK	62.75	15.34	78.09	105.46	-27.37
0.637	PK	65.38	15.61	80.99	91.56	-10.57
0.755	PK	62.86	15.34	78.2	90.02	-11.82
0.838	PK	37.07	15.92	52.99	89.16	-36.17
1.756	PK	28.59	16.24	44.83	82.71	-37.88
2.533	PK	32.33	15.27	47.60	79.54	-31.94
4.765	PK	31.68	15.61	47.29	74.04	-26.75
8.251	PK	31.54	15.63	47.17	69.27	-22.10

## ANT1(Phone coil) + ANT2(Earphone coil) + ANT3(Watch coil):

Frequency (MHz)	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limits 3m (dBuV/m)	Margin (dBuV/m)
0.1329	PK	70.12	15.46	85.58	104.71	-19.13
0.1561	PK	65.48	15.61	81.09	105.42	-24.33
0.3265	PK	62.84	15.34	78.18	105.46	-27.28
0.812	PK	37.01	15.92	52.93	89.36	-36.43
1.744	PK	28.66	16.24	44.90	82.75	-37.85
2.526	PK	32.28	15.27	47.55	79.57	-32.02
4.778	PK	31.72	15.61	47.33	74.02	-26.69
8.243	PK	31.65	15.63	47.28	69.28	-22.00

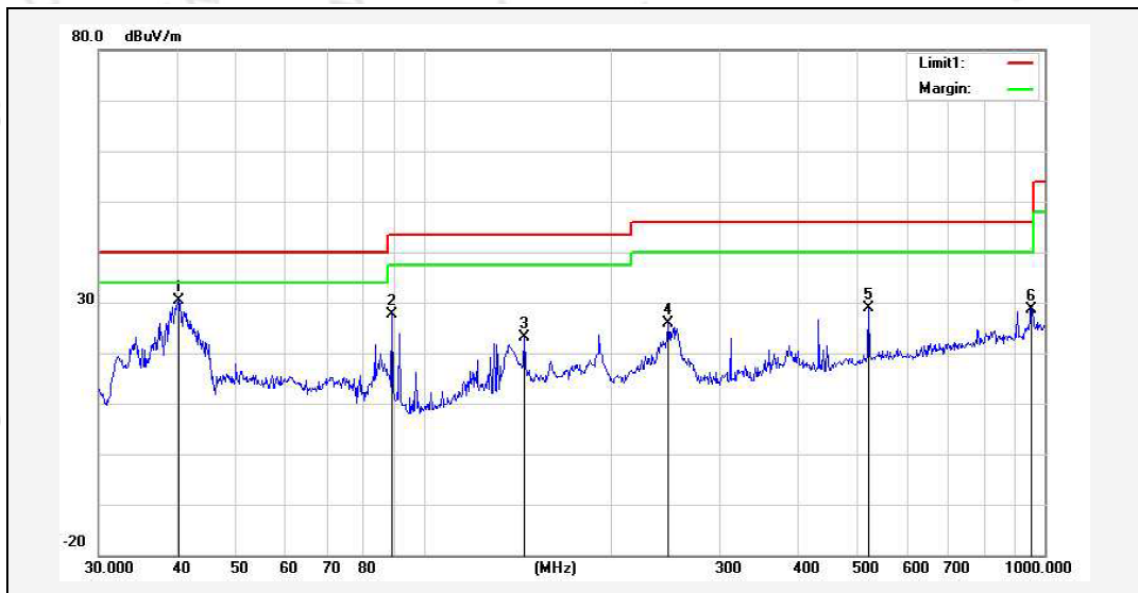
### For 30MHz-1GHz Test Results:

Temperature:	25°C	Relative Humidity:	60%
Test Date:	Jun. 04, 2024	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Horizontal
Test Mode:	Transmitting mode 13		



Remark: Result = Reading Level + Factor, Margin = Result – Limit  
Factor = Ant. Factor + Cable Loss – Pre-amplifier

Temperature:	25°C	Relative Humidity:	60%
Test Date:	Jun. 04, 2024	Pressure:	1010hPa
Test Voltage:	AC 120V, 60Hz	Phase:	Vertical
Test Mode:	Transmitting mode 13		



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1*	40.2757	46.46	-16.11	30.35	40.00	-9.65	79	100	peak
2	88.9639	47.06	-19.44	27.62	43.50	-15.88	68	100	peak
3	145.3506	36.99	-13.82	23.17	43.50	-20.33	130	100	peak
4	247.6819	39.57	-13.63	25.94	46.00	-20.06	114	100	peak
5	520.8882	37.28	-8.36	28.92	46.00	-17.08	73	100	peak
6	952.0937	29.36	-0.82	28.54	46.00	-17.46	175	100	peak

Remark: Result = Reading Level + Factor, Margin = Result – Limit  
Factor = Ant. Factor + Cable Loss – Pre-amplifier

Remark:

1. \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
2. The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
3. The test mode 13 was the worst case and only the data of the worst case record in this report.

## 5 ANTENNA REQUIREMENT

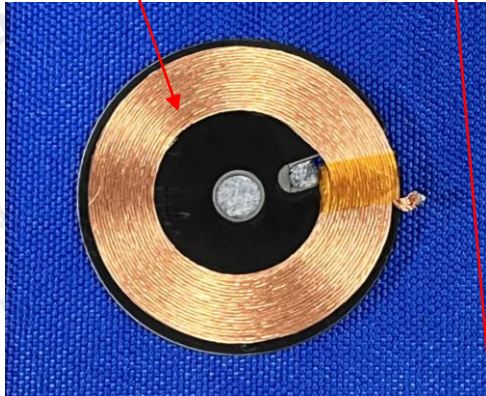
### Standard Applicable:

For intentional device, according to FCC 47 CFR Section 15.203, 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.

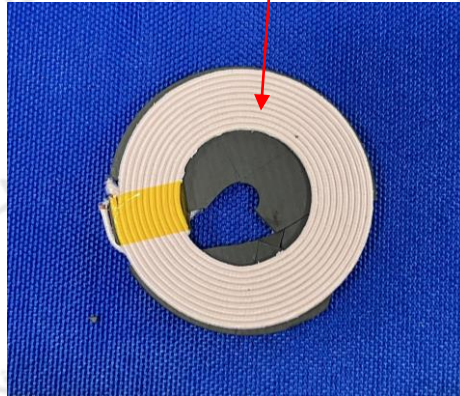
### Antenna Connected Construction:

The antenna used in this product is Coil Antenna, The directional gains of antenna used for transmitting is 0dBi.

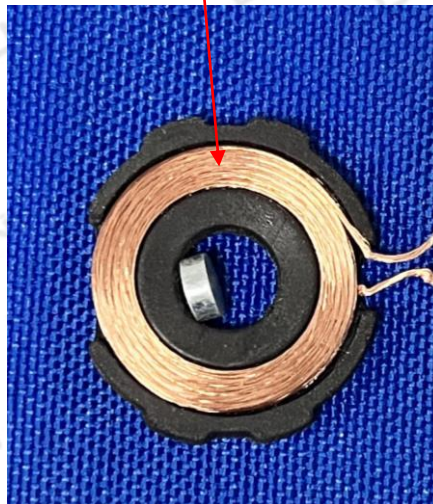
ANTENNA 1:



ANTENNA 3:

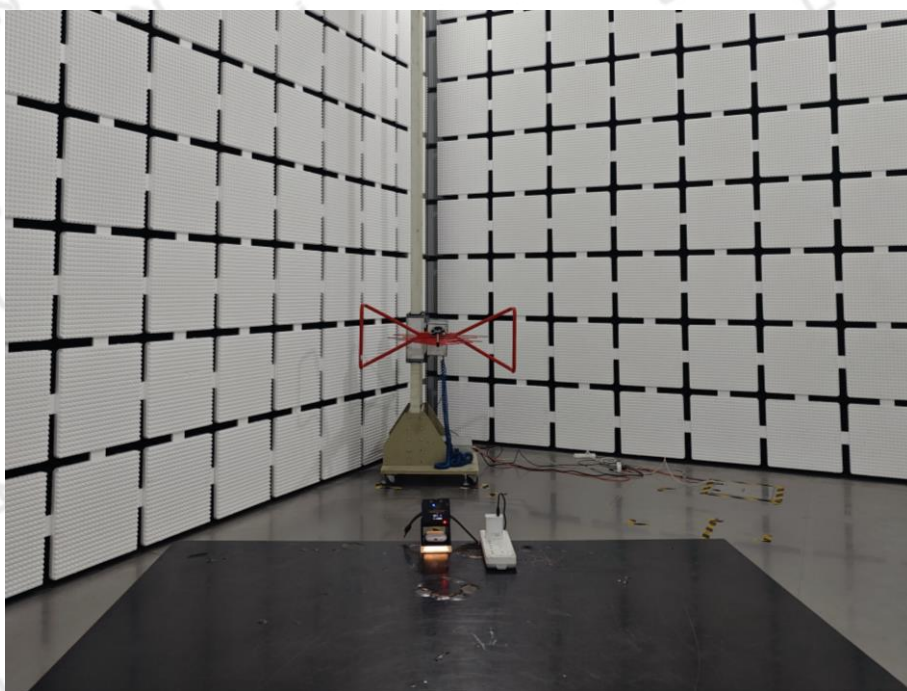
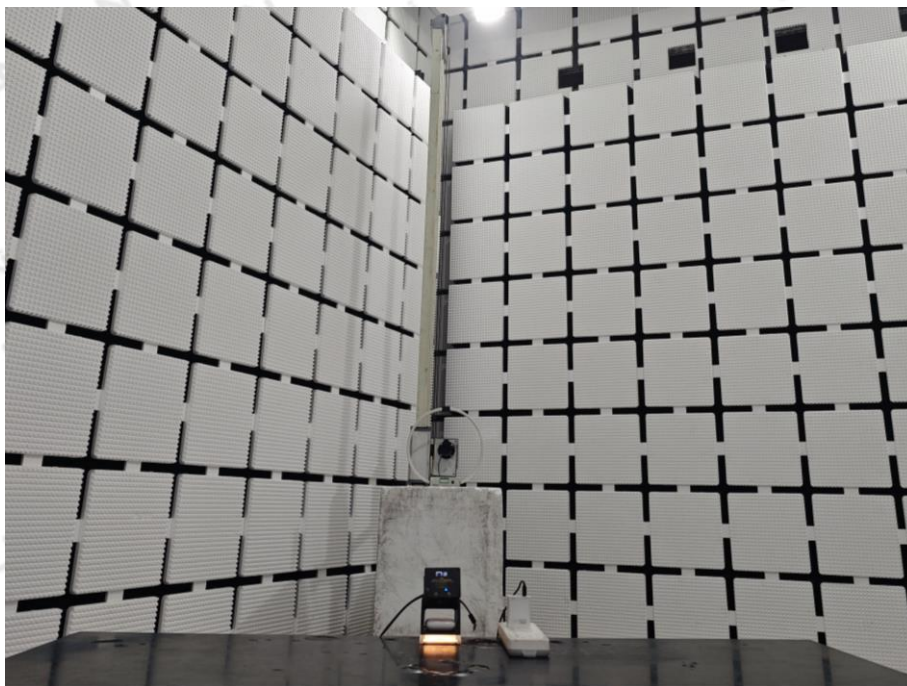


ANTENNA 2:



## 6 PHOTO OF TEST

### 6.1 RADIATED EMISSION



## 6.2 CONDUCTED EMISSION



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