

FCC TEST REPORT

Test report On Behalf of YOUNGSTAR ELECTRONIC CO., LIMITED For

Wireless charging Bluetooth Speaker Model No.: YS-BS0416, 39277, AAL-WCSPK, YS-BS0475 FCC ID: 2AWHS-BS0416

Prepared For: YOUNGSTAR ELECTRONIC CO., LIMITED

7th Floor, HuaYi Building B block, Ping Ji Ave, Nanwan street, Longgang

District, Shenzhen, 518114 China

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

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,

Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test: Apr. 08, 2024 ~ Apr. 16, 2024

Date of Report: Apr. 16, 2024

Report Number: HK2404031565-2E



TEST RESULT CERTIFICATION

Applicant's name: YOUNGSTAR ELECTRONIC CO., LIMITED

7th Floor, HuaYi Building B block, Ping Ji Ave, Nanwan street,

Longgang District, Shenzhen, 518114 China

Report No.: HK2404031565-2E

Manufacture's Name.....: YOUNGSTAR ELECTRONIC CO., LIMITED

7th Floor, HuaYi Building B block, Ping Ji Ave, Nanwan street,

Longgang District, Shenzhen, 518114 China

Product description

Trade Mark: N/A

Product name......: Wireless charging Bluetooth Speaker

Model and/or type reference: YS-BS0416, 39277, AAL-WCSPK, YS-BS0475

FCC Rules and Regulations Part 15 Subpart C (Section 15.209),

ANSI C63.10: 2013

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Date of Test:

Date (s) of performance of tests Apr. 08, 2024 ~ Apr. 16, 2024

Date of Issue...... Apr. 16, 2024

Test Result..... Pass

Testing Engineer :

(Len Liao)

Technical Manager:

Sliver Won

(Sliver Wan)

Authorized

Signatory

Jason Hwu

(Jason Zhou)

24



7. Photos of The EUT

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** Modified History **

Revision	Description	Issued Data	Remark		
Revision 1.0	Initial Test Report Release	Apr. 16, 2024	Jason Zhou		
TESTING	TESTING	ESTING	TESTING		
MAN	HUA" HUAT	HUAL	HUAN-		

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1. Test Summary

1.1. Test Procedures And Results

DESCRIPTION OF TEST	SECTION NUMBER	RESULT
CONDUCTED EMISSIONS TEST	15.207	COMPLIANT
RADIATED EMISSION TEST	15.209	COMPLIANT
ANTENNA REQUIREMENT	15.203	COMPLIANT

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. Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

1.3. Measurement Uncertainty

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.71dB, k=2 Radiated emission expanded uncertainty(9kHz-30MHz) = 3.90dB, k=2 Radiated emission expanded uncertainty(30MHz-1000MHz) = 3.90dB, k=2 Radiated emission expanded uncertainty(Above 1GHz) = 4.28dB, k=2

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2. General Information

2.1. General Description of EUT

Equipment:	Wireless charging Bluetooth Speaker		
Model Name:	YS-BS0416		(a)
Series Model:	39277, AAL-WCSPK, YS-BS0475	NY TESTING	G
Model Difference:	All model's the function, software and el with model named different. Test sample		ALC:
Trade Mark:	N/A	N. TES	
FCC ID:	2AWHS-BS0416	AK TESTING	MAKTESTING
Antenna Type:	Coil Antenna	Mr. HOW	0,
Antenna Gain:	0dBi		
Operation frequency:	112KHz~205KHz	TESTING	ESTING
Test frequency:	138KHz	HUAN	MARK
Number of Channels:	1	-m/G	
Modulation Type:	ASK MAN	HUAK TES	TESTING
Power Source:	Input: Type-C 5V/2A	ang (HUAR
	Wireless charge power: 10W	Y TESTIT	
Power Rating:	Input: Type-C 5V/2A Wireless charge power: 10W		

TEICATION

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2.2. Carrier Frequency of Channels

Operation I	Frequency each of channel	" LAK TESTING	- MAKTESTI	WAY TESTING	- HUAK TESTI
Channel	Frequency	9 m	0	O HO	
1	138KHz				

2.3. Operation of EUT during Testing

	Test	HUAK TESTING HUAK TESTING
Test Item	mode	Description
		JAK TESTINE
Radiated &	Mode 1	AC Adapter+ EUT + Load (Full Load)
Conducted test	JAN	HUAR HUAR
cases	Mode 2	AC Adapter+ EUT + Load (Half Load)
	Mode 3	AC Adapter+ EUT + Load (Null Load)

Note:

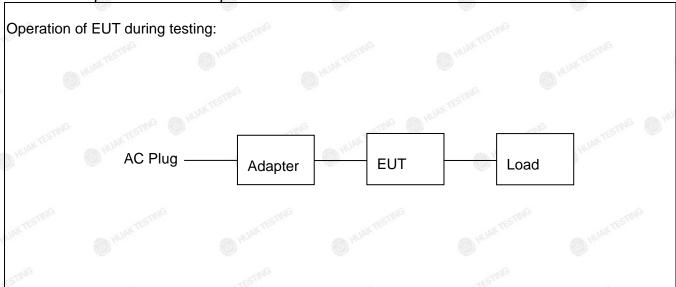
- 1. All modes and configurations above have been tested.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The wireless load replaces the Mobile Phone by Lab.
- 4. According to the manufacturer's design principle, the wireless charging power will reach its maximum when the client device's battery level is between 1% and 10%.

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2.4. Operation of EUT during testing Operating Mode The mode is used: Transmitting mode

2.5. Description of Test Setup



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.

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2.6. 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.

Ś		Equipment	Trade Mark	Model/Type No.	Specification	Note
	1	Wireless charging Bluetooth Speaker	N/A	YS-BS0416	N/A	EUT
N. S. II	JAK.	O HUM	O 4	TOWN WHITE	Input: AC100-240V, 50/60Hz, 2A	Mary House
pk in	TESTINE	WAY TESTING	HUAR	ESTING MAKT	USB-C1 Output: DC5V-3A, 9V-3A, 12V-3A, 15V-3A, 20V-5A, 28V-5A, 140W Max	HUAN TESTING
57111	2	Adapter	N/A	CD289	USB-C2 Output: DC5V-3A, 9V-3A, 12V-3A, 15V-3A, 20V-5A, 100W Max	Peripheral
D. Fri	JAK TES	ING HUAKTESTING	MINAN OH	AN TESTING HUAN TEST	USB-A Output: DC5V-4.5A, 4.5V-5A, 5V-3A, 9V-2A, 12V-1.5A, 22.5W Max USB-A Output: DC5V/2.4A	HUAY TESTING
pk	3	Load	YBZ	N/A	10W Max	Peripheral
				-	9	W

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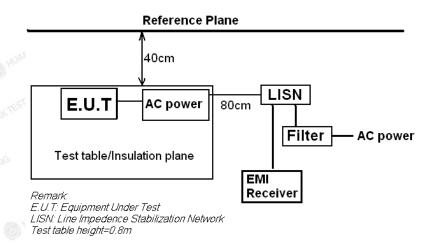
2.7. Measurement Instruments List

-6		TIME	TESTING		STING	Cal.
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Interva
L.I.S.N. 1. Artificial Mains Network		R&S	ENV216	HKE-002	Feb. 20, 2024	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Feb. 20, 2024	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 20, 2024	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 20, 2024	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Feb. 20, 2024	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 21, 2024	2 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 21, 2024	2 Year
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	-STING	STING
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Feb. 20, 2024	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Feb. 20, 2024	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	N/A	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Feb. 20, 2024	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Feb. 20, 2024	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Feb. 20, 2024	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 09, 2021	3 Year
19.	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 20, 2024	1 Year



3. Conducted Emission Test

3.1. Block Diagram of Test Setup



3.2. Conducted Power Line Emission Limit

According to FCC Part 15.207(a)

W.		Wille		4100			
F	M	Maximum RF Line Voltage (dBμV)					
Frequency (MHz)	CLAS	SS A	C	CLASS B			
(11112)	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 §15.207 Line Conducted Emission Limit is same as above table.

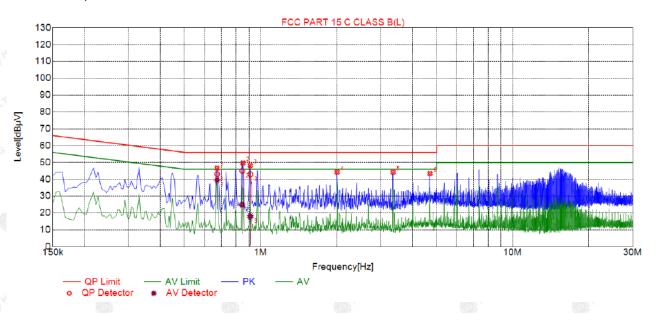
3.3. Test Procedure

- 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 of Full Load was reported as below: Test Specification: Line



Suspected List									
	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
	1	0.6720	46.57	20.05	56.00	9.43	26.52	PK	L
JOSEPH 1	2	0.8520	49.67	20.06	56.00	6.33	29.61	PK	L
	3	0.9105	48.22	20.06	56.00	7.78	28.16	PK	L
	4	2.0130	44.33	20.15	56.00	11.67	24.18	PK	L
N. Carlotte	5	3.3585	44.28	20.24	56.00	11.72	24.04	PK	L

	Final	Final Data List										
3	NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBµV]	QP Limit [dΒμV]	QP Margin [dB]	QP Reading [dBμV]	ΑV Value [dBμV]	ΑV Limit [dBμV]	AV Margin [dB]	AV Reading [dBµV]	Туре
	1	0.6728	20.05	43.10	56.00	12.90	23.05	39.57	46.00	6.43	19.52	L
	2	0.8460	20.06	45.07	56.00	10.93	25.01	24.89	46.00	21.11	4.83	L
8	3	0.9114	20.06	43.00	56.00	13.00	22.94	18.01	46.00	27.99	-2.05	L

56.00

12.57

23.17

Remark: Margin = Limit - Level

4.6995

Correction factor = Cable lose + LISN insertion loss

43.43

20.26

Level=Test receiver reading + correction factor

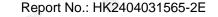
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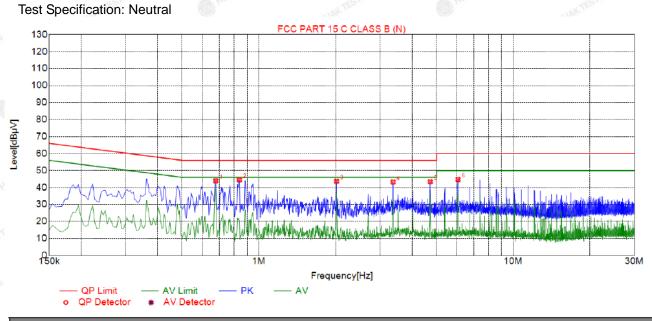
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

STING









Sus	Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
1	0.6765	43.91	20.05	56.00	12.09	23.86	PK	N	
2	0.8385	44.49	20.06	56.00	11.51	24.43	PK	N	
3	2.0220	43.65	20.15	56.00	12.35	23.50	PK	N	
4	3.3720	43.26	20.24	56.00	12.74	23.02	PK	N	
5	4.7220	43.38	20.26	56.00	12.62	23.12	PK	N	
6	6.0720	44.72	20.23	60.00	15.28	24.49	PK	N	

Remark: Margin = Limit - Level

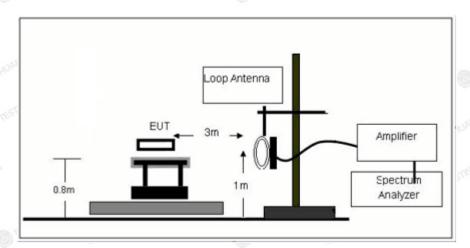
Correction factor = Cable lose + LISN insertion loss

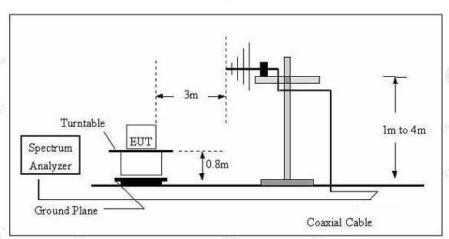
Level=Test receiver reading + correction factor

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- 4. Radiated Emissions
- 4.1. Block Diagram of Test Setup







4.2. Rules and specifications

CFR 47 Part 15, section 15.205

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

Report No.: HK2404031565-2E

	MHz	MHz	MHz	GHz
	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
	\1\ 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	(\2\)
l.	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.

Field strength	Measurement distance
(microvolts/meter)	(meters)
2400/F(kHz)	300
24000/F(kHz)	30
30	30
100**	3
150**	3
200**	3
500	3
	(microvolts/meter) 2400/F(kHz) 24000/F(kHz) 30 100** 150**

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

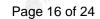
Frequency	Limit	Distance
(MHz)	(dBuV/m)	(m)
0.009-0.490	20log(2400/F(KHz))+40log(300/3)	3
0.490-1.705	20log(24000/F(KHz))+40log(30/3)	3
1.705-30.0	69.5	3
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

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						
CTESTING WARTESTIN DE	9-150KHz 150-490KHz		490KHz-30MHz			
Resolution Bandwidth	200Hz	9KHz	9KHz			
Video Bandwidth	600Hz	30KHz	30KHz			
Detector	Peak	Peak	Peak			
Trace Mode	Max Hold	Max Hold	Max Hold			
Sweep Time	Auto	Auto	Auto			

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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 measurement are extrapolated to 300m and 30m distance respectively, by 40dB/decade, According to part 15.31(f)(2), 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.

Note:

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

4.4. Test Result

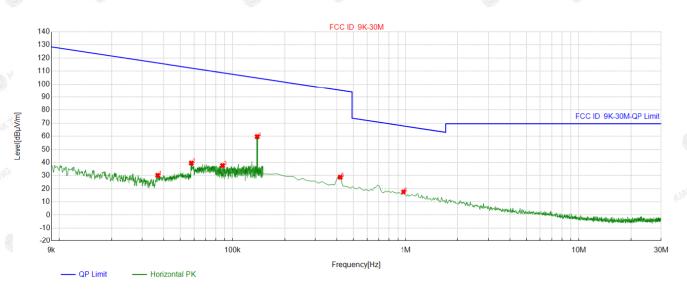
PASS

Note: this EUT was tested for all models and the worst case model (10W) data was reported.

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For 9KHz - 30MHz Coaxial:



QP Detector

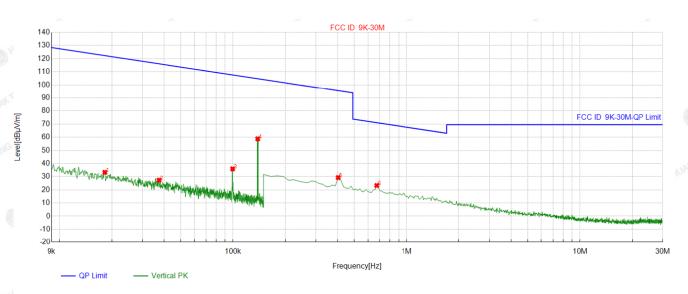
Suspected List

<	5	Freq.	Factor	Reading	Level	Limit	Margin
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]
	1	0.036861	-10.49	40.72	30.23	116.26	86.03
10000	2	0.057881	-10.54	50.13	39.59	112.34	72.75
	3	0.087576	-10.06	47.77	37.71	108.75	71.04
	4	0.138503	-10.58	70.14	59.56	104.77	45.21
5	5	0.418784	-11.12	39.93	28.81	95.16	66.35
	6	0.971286	-10.65	28.26	17.61	67.87	50.26

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

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Coplanar:



QP Detector

Suspected List

NO	Freq.	Factor	Reading	Level	Limit	Margin			
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]			
1	0.01824	-10.78	44.10	33.32	122.37	89.05			
2	0.037355	-10.47	37.89	27.42	116.14	88.72			
3	0.099426	-10.50	46.45	35.95	107.65	71.70			
4	0.138503	-10.58	69.22	58.64	104.77	46.13			
5	0.403852	-11.16	40.50	29.34	95.48	66.14			
6	0.672636	-10.95	34.28	23.33	71.06	47.73			

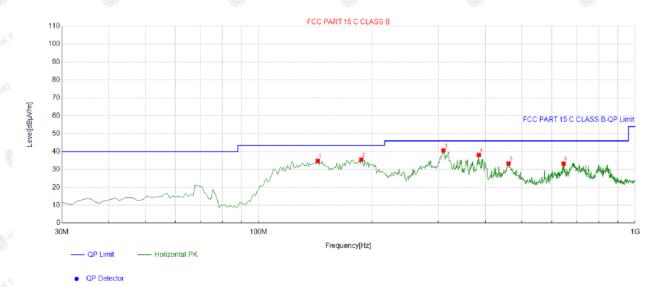
Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

ATION



For 30MHz-1GHz

Antenna polarity: H



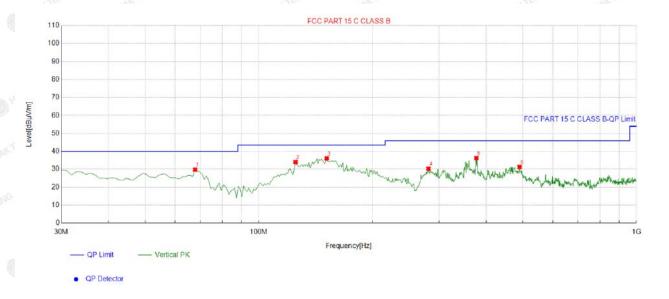
Suspected List

3	Suspe	cted List								
		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
É	1	143.60360	-18.35	53.19	34.84	43.50	8.66	100	102	Horizontal
	2	187.29729	-15.84	51.42	35.58	43.50	7.92	100	233	Horizontal
	3	309.63964	-11.84	52.51	40.67	46.00	5.33	100	244	Horizontal
	4	384.40440	-9.06	47.30	38.24	46.00	7.76	100	348	Horizontal
Y	5	461.11111	-8.91	42.29	33.38	46.00	12.62	100	307	Horizontal
	6	645.59559	-4.87	38.16	33.29	46.00	12.71	100	348	Horizontal

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



Antenna polarity: V



	Suspected List									
1		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
<	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	67.867868	-16.02	45.73	29.71	40.00	10.29	100	71	Vertical
	2	125.15515	-16.61	50.60	33.99	43.50	9.51	100	316	Vertical
	3	151.37137	-18.06	54.05	35.99	43.50	7.51	100	98	Vertical
	4	281.48148	-12.59	42.84	30.25	46.00	15.75	100	359	Vertical
	5	376.63663	-9.69	45.91	36.22	46.00	9.78	100	274	Vertical
8	6	490.24024	-7.89	39.09	31.20	46.00	14.80	100	90	Vertical

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

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5. Antenna Requirement

Standard Applicable

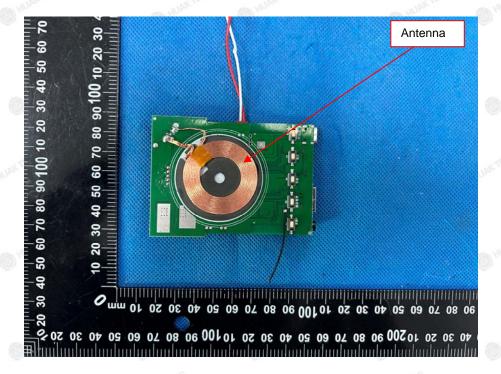
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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. The directional gains of antenna used for transmitting is 0dBi.

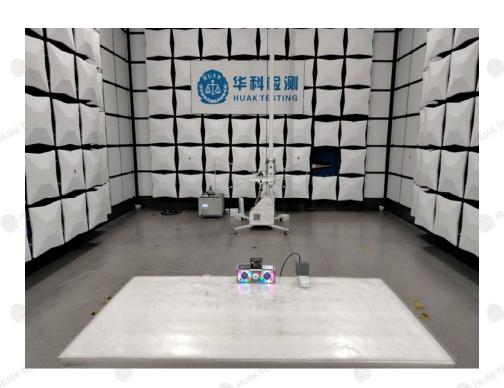


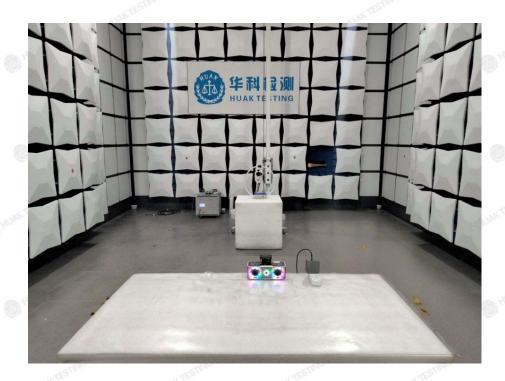
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6. Photograph of Test

Radiated Emission





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Conducted Emissions



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7. Photos of The EUT

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

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

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