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FCC TEST REPORT

Test report On Behalf of Shenzhen Semetor Electronics Co., LTD For Multifunctional wireless speaker lamp Model No.: S-29 FCC ID: 2AYRHS-29

Prepared For :

Shenzhen Semetor Electronics Co., LTD B3, 3th floor, guanglong building, No.162, pingxin north road, hehua community, pinghu street, longgang district, shenzhen city, Guangdong, 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:
 Feb. 08, 2022 ~ Feb. 26, 2022

 Date of Report:
 Feb. 26, 2022

 Report Number:
 HK2202230615-1E

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TEST RESULT CERTIFICATION

Applicant's name	Shenzhen Semetor Electronics Co., LTD
Address	B3, 3th floor, guanglong building, No.162, pingxin north road, hehua community, pinghu street, longgang district, shenzhen city, guangdong
Manufacture's Name	Dongguan Zeanew Technology Co.,Ltd
Address	Room 801, building 2, No.38, Six lanes Weixing Rd, Yantian, Fenggang town, Dongguan, China
Product description	
Trade Mark:	N/A
Product name:	Multifunctional wireless speaker lamp
Model and/or type reference .:	S-29
Standards	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:	Feb. 08, 2022 ~ Feb. 26, 2022
Date of Issue:	Feb. 26, 2022
Test Result:	Pass

Testing Engineer

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory :

(Jason Zhou)

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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Feb. 26, 2022	Jason Zhou
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11 O TT			(C) ***

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- 1. TEST SUMMARY
 - 1.1. Test Procedures And Results

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

RESULT COMPLIANT COMPLIANT 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)	0	3.90dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	=	3.90dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	1000 VI	4.28dB, k=2

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2. GENERAL INFORMATION

2.1. General Description of EUT

- MG	Days Days a	TNG	TING
Equipment:	Multifunctional wireless speaker lam	p HUAK TEST	
Model Name:	S-29		
Series Models:	N/A	NK TESTING	
Model Difference:	N/A		
Trade Mark:	N/A	STING	9
FCC ID:	2AYRHS-29	HUANTE	- MG
Antenna Type:	Coil Antenna	- HUAKTESTIN.	HUAKTES
Antenna Gain:	0dBi	0	
Operation frequency:	111.5KHz~205KHz		
Test frequency:	145.8KHz	NK TESTING	AKTESTING
Number of Channels:	1 0 100	O Hor	O HON
Modulation Type:	ASK	TESTING	
2 2	Input: DC5V 2.1A, DC9V 2A	HUARDS	W TESTING
Power Source:	Wireless Output: 5W/7.5W/10W/15V	V	
Dower Deting	Input: DC5V 2.1A, DC9V 2A	WAKTESING	
Power Rating:	Wireless Output: 5W/7.5W/10W/15V	V	

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2.2. Carrier Frequency of Channels

Operation F	requency each of channel	NAKTESTIL	HUANTES	MAK TESTIN	HUAK TES.
Channel	Frequency	0	0	0	0
1	145.8KHz				

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

2.4. Description of Test Setup

Operation of EUT during testing:



Adapter information Model: UP0920 Input: AC100-240V, 50-60Hz, 0.5A Output: 5VDC, 2A/9VDC, 2A

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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HUAK TESTING

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2.5. Measurement Instruments List

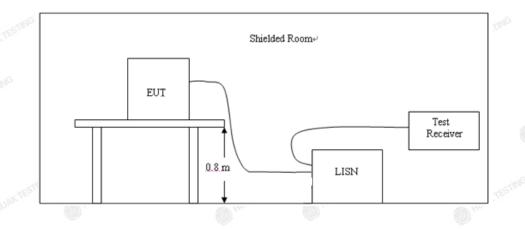
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Dec. 09, 2021	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Dec. 09, 2021	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 09, 2021	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 09, 2021	_1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 09, 2021	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 09, 2021	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Dec. 09, 2021	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 09, 2021	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 09, 2021	1 Year
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Dec. 09, 2021	1 Yea
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Dec. 09, 2021	1 Yea
12.	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 09, 2021	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	Dec. 09, 2021	[©] N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Dec. 09, 2021	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 09, 2021	1 Yea
16.	Signal generator	Agilent	N5182A	HKE-029	Dec. 09, 2021	1 Yea
17.	Signal Generator	Agilent	83630A	HKE-028	Dec. 09, 2021	1 Yea
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 17, 2020	3 Yea

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- 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)

	M	aximum RF L	ine Voltage (d	BμV)
Frequency (MHz)	CLAS	SS A	C	LASS 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 §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.

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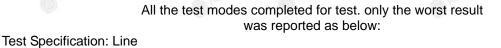


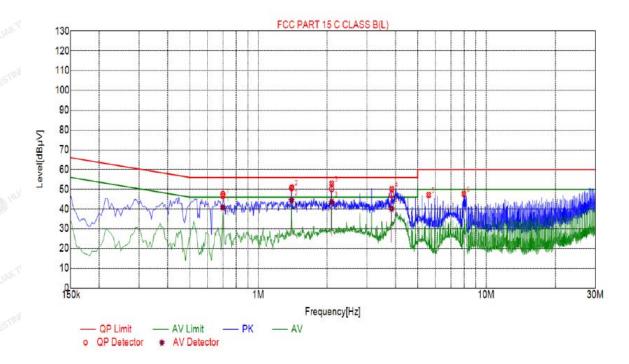
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3.4. Test Result

PASS





Suspected List													
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре					
1	0.6990	46.64	20.05	56.00	9.36	26.59	РК	L					
2	1.4010	50.84	20.11	56.00	5.16	30.73	PK	L					
3	2.0985	52.93	20.15	56.00	3.07	32.78	РК	L					
4	3.8490	50 .16	20.25	56.00	5.84	29.91	РК	L					
5	5.5950	47.14	20.25	60.00	12.86	26.89	РК	L					
6	7.9845	47.66	20.15	60.00	12.34	27.51	PK	L					

Final Data List

NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	QP Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	A∨ Margin [dB]	AV Reading [dBµV]	Туре
1	0.6990	20.05	47.55	56.00	8.45	27.50	40.77	46.00	5.23	20.72	L
2	1.3976	20.11	50.63	56.00	5.37	30.52	44.39	46.00	1.61	24.28	L
3	2.0959	20.15	50.18	56.00	5.82	30.03	43.50	46.00	2.50	23.35	L
4	3.8413	20.25	47.33	56.00	8.67	27.08	40.23	46.00	5.77	19.98	L

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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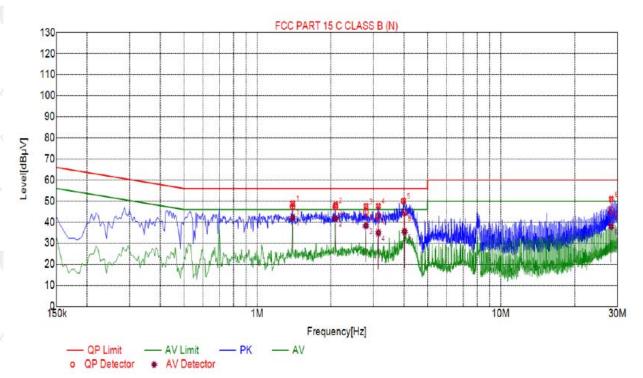
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Test Specification: Neutral



Sus	Suspected List												
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре					
1	1.3965	48.90	20.11	56.00	7.10	28.79	PK	N					
2	2.0985	48.14	20.15	56.00	7.86	27.99	PK	N					
3	2.7960	47.57	20.21	56.00	8.43	27.36	PK	N					
4	3.1425	47.67	20.23	56.00	8.33	27.44	PK	N					
5	3.9840	50.06	20.25	56.00	5.94	29.81	PK	N					
6	28.2300	50.89	20.26	60.00	9.11	30.63	PK	N					

Final Data List

NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	QP Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	AV Reading [dBµV]	Туре
1	1.3962	20.11	47.41	56.00	8.59	27.30	42.23	46.00	3.77	22.12	N
2	2.0943	20.15	47.32	56.00	8.68	27.17	41.78	46.00	4.22	21.63	N
3	2.7934	20.21	44.67	56.00	11.33	24.46	38.28	46.00	7.72	18.07	N
4	3.1429	20.23	42.99	56.00	13.01	22.76	34.93	46.00	11.07	14.70	N
5	4.0257	20.25	44.52	56.00	11.48	24.27	35.55	46.00	10.45	15.30	N
6	28.2196	20.26	45.87	60.00	14.13	25.61	37.90	50.00	12.10	17.64	N

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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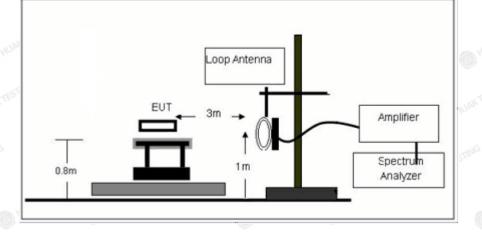


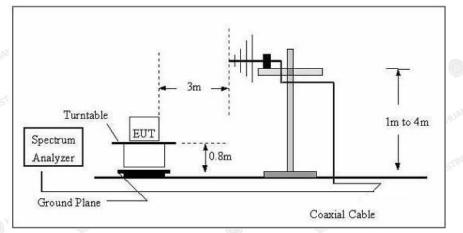
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4. RADIATED EMISSIONS

4.1. Block Diagram of Test Setup





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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.

ing opunous crin	solorio are permitte	sa in any or the	s nequency s
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\)
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:

Limit	Distance		
(dBuV/m)	(m)		
20log(2400/F(KHz))+40log(300/3)	3		
20log(24000/F(KHz))+40log(30/3)	3		
69.5	3		
40.0	3		
43.5	3		
46.0	3		
54.0	3		
	(dBuV/m) 20log(2400/F(KHz))+40log(300/3) 20log(24000/F(KHz))+40log(30/3) 69.5 40.0 43.5 46.0		

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.

B B B B B B B B B B B B B B B B B B B	Transmitter Spurious	Emissions 9KHz-30MHz	
TESTING WANTEST	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

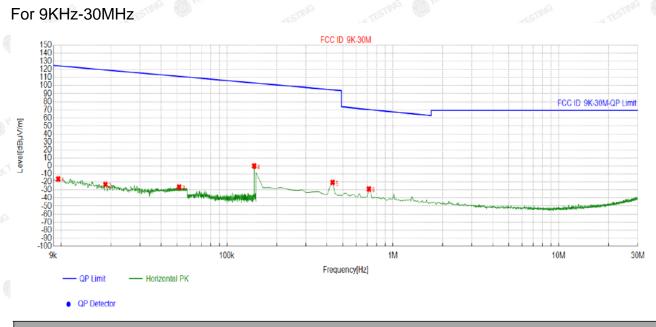
Note: this EUT was tested for all models and the worst case model (DC5V) data was reported.

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Suspecte	ed List
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2	NO.	Freq.	Factor	Reading	Level	Limit	Margin					
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]					
Ś	1	0.0096	-65.47	49.26	-16.21	121.66	137.87					
	2	0.0185	-67.74	44.73	-23.01	119.33	142.34					
×.	3	0.0515	-68.64	42.40	-26.24	111.27	137.51					
	4	0.1458	-68.75	68.89	0.14	103.12	102.98					
	5	0.4337	-68.73	48.35	-20.38	94.69	115.07					
	6	0.7174	-68.59	39.76	-28.83	70.46	99.29					

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

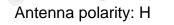
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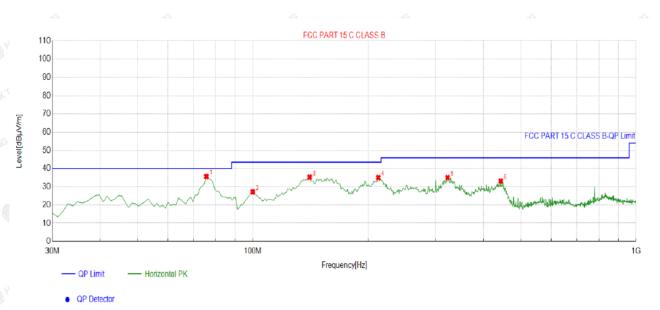


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For 30MHz-1GHz





ALC .					97a - 97a					
3	Suspected List									
	NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
3	1	75.6356	-18.68	54.39	35.71	40.00	4.29	100	2	Horizontal
	2	99.9099	-15.42	42.64	27.22	43.50	16.28	100	13	Horizontal
	3	140.6907	-19.16	54.46	35.30	43.50	8.20	100	21	Horizontal
	4	212.5425	-14.74	49.81	35.07	43.50	8.43	100	2	Horizontal
8	5	322.2623	-11.98	47.06	35.08	46.00	10.92	100	227	Horizontal
	6	443.6336	-9.26	42.46	33.20	46.00	12.80	100	171	Horizontal

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

Margin = Limit – Level

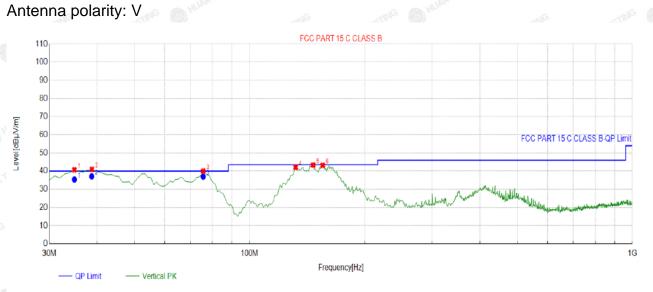
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QP Detector

Suspe	Suspected List										
NO.	Freq.	Freq. Factor Reading Level	Limit	Margin	Height	Angle	Polarity				
	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	rolanty		
1	34.8549	-16.15	56.93	40.78	40.00	-0.78	100	264	Vertical		
2	38.7387	-14.95	56.00	41.05	40.00	-1.05	100	71	Vertical		
3	75.6356	-18.68	58.70	40.02	40.00	-0.02	100	110	Vertical		
4	131.9520	-18.69	60.82	42.13	43.50	1.37	100	86	Vertical		
5	146.5165	-19.02	62.33	43.31	43.50	0.19	100	181	Vertical		
6	155.2553	-18.56	61.73	43.17	43.50	0.33	100	209	Vertical		

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	34.8549	-16.15	51.59	35.44	40.00	4.56	100	264	Vertical	
2	38.6849	-14.94	52.07	37.13	40.00	2.87	130	32.4	Vertical	
3	75.6356	-18.68	55.69	37.01	40.00	2.99	100	110	Vertical	

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

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5. ANTENNA REQUIREMENT

Standard Applicable

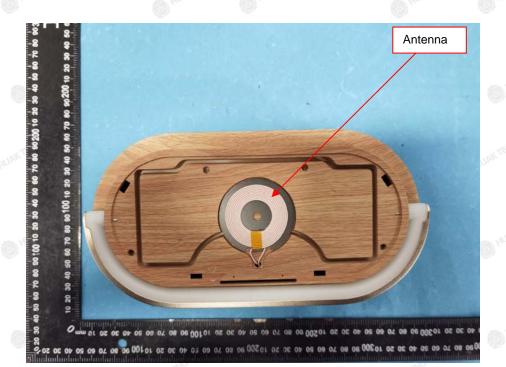
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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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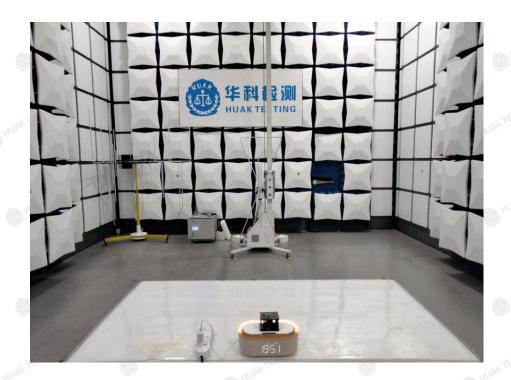


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6. PHOTOGRAPH OF TEST

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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