

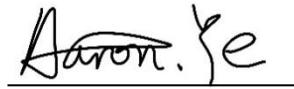
TEST REPORT

Product Name : LED Wireless Charging Bluetooth Speaker
Brand Name : N/A
Model : S300
Series Model : N/A
FCC ID : 2AW9J-S300
Applicant : **Shenzhen Xindongsheng Electronic Technology Co., Ltd.**
Address : Xinzhongtai Science Park, Zhu'ao Third Industrial Zone, Gushu Community, Xixiang street, Baoan Shenzhen, Guangdong, China
Manufacturer : **Shenzhen Xindongsheng Electronic Technology Co., Ltd.**
Address : Xinzhongtai Science Park, Zhu'ao Third Industrial Zone, Gushu Community, Xixiang street, Baoan Shenzhen, Guangdong, China
Standard(s) : FCC CFR Title 47 Part 15 Subpart C
Date of Receipt : Sep. 08, 2025
Date of Test : Sep. 09, 2025~ Sep. 18, 2025
Issued Date : Sep. 18, 2025

Issued By: **Guangdong Asia Hongke Test Technology Limited**

B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
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Reviewed by:



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Approved by:



Allen Wang



Note: This device has been tested and found to comply with the standard(s) listed, this 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. This report shall not be reproduced except in full, without the written approval of Guangdong Asia Hongke Test Technology Limited. If there is a need to alter or revise this document, the right belongs to Guangdong Asia Hongke Test Technology Limited, and it should give a prior written notice of the revision document. This test report must not be used by the client to claim product endorsement.

Guangdong Asia Hongke Test Technology Limited

B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China.

Report Revise Record

Report Version	Issued Date	Notes
M1	Sep. 18, 2025	Initial Release

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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.207, 15.209, 15.215(c)

ANSI C63.10: 2013: American National Standard for Testing Unlicensed Wireless Devices

1.2 Test Summary

Test Item	Section in CFR 47	Test Result
Electric Field Radiated Emissions	FCC Part 15 C (Section15.209)	PASS
20dB Bandwidth/99% Bandwidth	FCC Part 15 C (Section15.215(c))	PASS
AC Power Line Conducted Emission	FCC Part 15 C (Section15.207)	PASS
Antenna Requirement	FCC Part 15 C (Section15.203)	PASS

1.3 Test Facility

Test Laboratory:

Guangdong Asia Hongke Test Technology Limited

B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

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

FCC-Registration No.: 251906 Designation Number: CN1376

Guangdong Asia Hongke Test Technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC —Registration No.: 31737 CAB identifier: CN0165

The 3m Semi-anechoic chamber of Guangdong Asia Hongke Test Technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 31737

A2LA-Lab Cert. No.: 7133.01

Guangdong Asia Hongke Test Technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

1.4 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 according to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Guangdong Asia Hongke Test Technology Limited's quality system according 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 Asia Hongke laboratory is reported:

Test	Measurement Uncertainty	Notes
Power Line Conducted Emission	9KHz~30MHz ± 1.20 dB	(1)
Radiated Emission	9KHz~30MHz ± 3.10 dB	(1)
Radiated Emission	30MHz~1GHz ± 3.75 dB	(1)
Radiated Emission	1GHz~18GHz ± 3.88 dB	(1)
Radiated Emission	18GHz~40GHz ± 3.88 dB	(1)
RF power, conducted	30MHz~6GHz ± 0.16 dB	(1)
RF power density, conducted	± 0.24 dB	(1)
Spurious emissions, conducted	± 0.21 dB	(1)
Temperature	± 1 °C	(1)
Humidity	± 3 %	(1)
DC and low frequency voltages	± 1.5 %	(1)
Time	± 2 %	(1)
Duty cycle	± 2 %	(1)

The report uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty Multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%

2 GENERAL INFORMATION

2.1 Environmental conditions

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

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

2.2 General Description of EUT

Product Name:	LED Wireless Charging Bluetooth Speaker
Model/Type reference:	S300
Serial Model:	N/A
Power Rating:	Input: DC 5V 3A, 9V 2A Wireless output:5W, 10W, 15W
Hardware Version:	N/A
Software Version:	N/A
Sample(s) Status:	AiTSZ-250908105-1(Normal sample) AiTSZ-250908105-2(Engineer sample)
Wireless Charger:	
Operation frequency:	110kHz-205kHz
Modulation Technology:	ASK
Antenna Type:	Loop coil Antenna
Antenna gain:	0dBi
Remark: The above DUT's information was declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.	

2.3 Description of the test mode

Equipment under test was operated during the measurement under the following conditions:

Charging and communication mode

Test Modes:		
Mode 1	AC/DC Adapter+ EUT + phone(Battery Status:< 1%)	Record
Mode 2	AC/DC Adapter+ EUT + phone(Battery Status:< 50%)	Pre-tested
Mode 3	AC/DC Adapter+ EUT + phone(Battery Status:< 99%)	Pre-tested
Mode 4	Stand-by mode.	Pre-tested

Note: All test modes were pre-tested, but we only recorded the worst case in this report.

2.4 Special Accessories

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

Description	Manufacturer	Model	Serial No.	Provided by	Other
Adapter	Xiaomi	MDY-14-EU	A62502T103407S	Test lab	67W
Phone	OSCAL	PILOT2	/	Test lab	15W
/	/	/	/	/	/

2.5 Equipment List for the Test

Conducted Emission measurement						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
<input checked="" type="checkbox"/> 1	EMI Test Receiver	R&S	ESPI	100771	2024.09.25	2025.09.24
<input checked="" type="checkbox"/> 2	LISN	R&S	NNLK 8129	8130179	2024.09.24	2025.09.23
<input checked="" type="checkbox"/> 3	ISN	TESEQ	T800	29429	2024.09.26	2025.09.25
<input checked="" type="checkbox"/> 4	Pulse Limiter	R&S	ESH3-Z2	102789	2024.09.24	2025.09.23
<input checked="" type="checkbox"/> 5	CE Software	EZ	EZ-EMC_CE	Ver.AIT-03A	N/A	N/A

Radiation Emission measurement						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
<input checked="" type="checkbox"/> 1	EMI Measuring Receiver	R&S	ESR	101160	2024.09.25	2025.09.24
<input checked="" type="checkbox"/> 2	Low Noise Pre Amplifier	SCHWARZBECK	BBV 9745	00282	2024.09.25	2025.09.24
<input type="checkbox"/> 3	Low Noise Pre Amplifier	CESHENG	CSKJLNA231 016A	CSKJLNA23 1016A	2024.09.25	2025.09.24
<input type="checkbox"/> 4	Spectrum Analyzer	R&S	FSV40	101470	2024.09.23	2025.09.22
<input checked="" type="checkbox"/> 5	Passive Loop	ETS	6512	00165355	2024.08.29	2026.08.28
<input checked="" type="checkbox"/> 6	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9168	01434	2024.08.29	2027.08.28
<input type="checkbox"/> 7	Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	452	2024.08.29	2027.08.28
<input type="checkbox"/> 8	Horn Antenna 15-40GHz	SCHWARZBECK	BBHA9170	BBHA91703 67	2024.08.28	2027.08.27
<input checked="" type="checkbox"/> 9	6dB Attenuator	JFW	50FPE-006	4360846-949-1	2024.09.24	2025.09.23
<input checked="" type="checkbox"/> 10	RE Software	EZ	EZ-EMC_RE	Ver.AIT-03A	N/A	N/A

RF Conducted measurement						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
<input checked="" type="checkbox"/> 1	Spectrum Analyzer	Agilent	N9020A	MY53421570	2024.09.25	2025.09.24
<input type="checkbox"/> 2	Power Sensor	Agilent	8481A	MY41097697	2024.09.25	2025.09.24
<input type="checkbox"/> 3	Vector Signal Generator	Agilent	N5182A	MY50143009	2024.09.25	2025.09.24
<input type="checkbox"/> 4	Analog signal generator	Agilent	E8257	MY51554256	2024.09.25	2025.09.24
<input type="checkbox"/> 5	Const Temp. & Humidity Chamber	Eastlab	YH-HW-408L	23051109	2024.09.24	2025.09.23
<input type="checkbox"/> 6	Wideband Radio communication tester	R&S	CMW500	1201.0002K50	2024.09.24	2025.09.23
<input type="checkbox"/> 7	DC power supply	ZHAOXIN	RXN-305D-2	28070002559	2024.09.24	2025.09.23
<input type="checkbox"/> 8	RF Test box	TST	TSTPASS	21033016	2024.09.25	2025.09.24
<input type="checkbox"/> 9	RF Software	TST	TSTPASS	Version 2.0	N/A	N/A
<input type="checkbox"/> 10	RF Software	Cesheng	WCN Regulatory	Ver 25.03.2901	N/A	N/A
<input checked="" type="checkbox"/> 11	Coupled Antenna	NTS	41477A_Y404	N/A	N/A	N/A

3 TEST CONDITIONS AND RESULTS

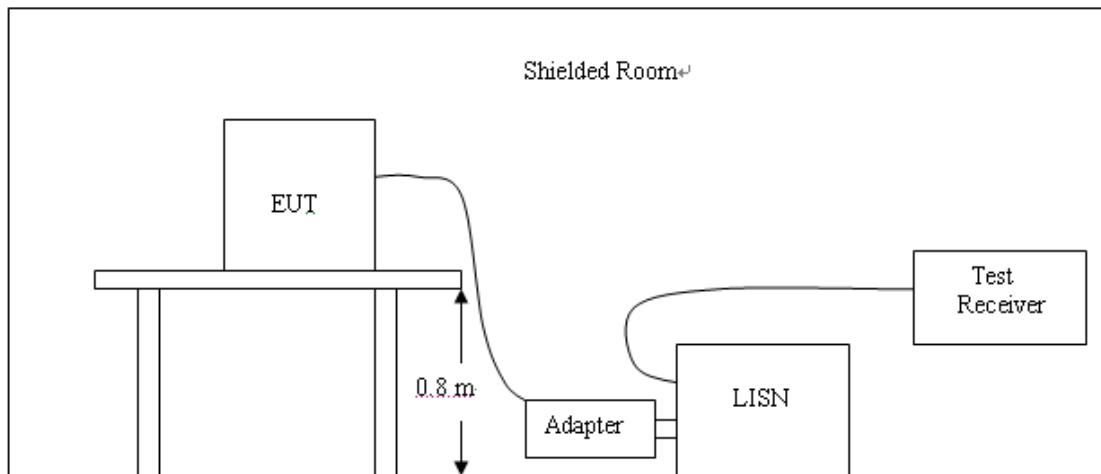
3.1 Conducted Emissions Test

LIMIT

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 CONFIGURATION

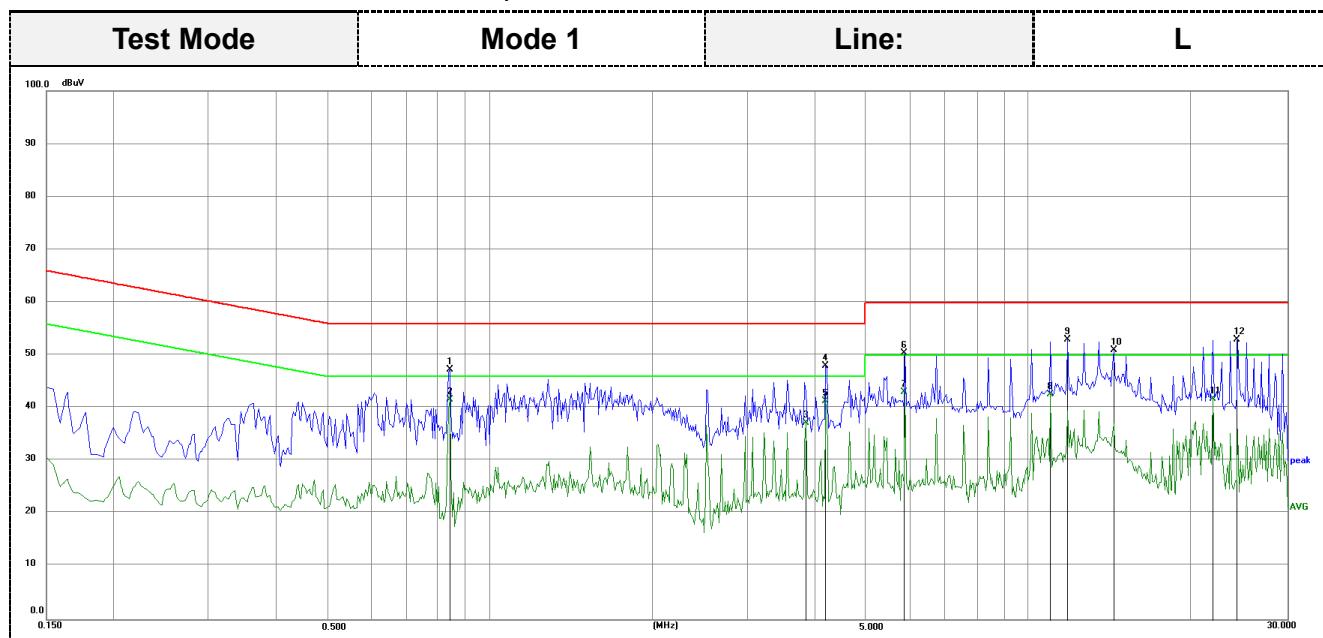


TEST PROCEDURE

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 C63.10:2013.
2. Support equipment, if needed, was placed as per ANSI C63.10:2013.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
4. The 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.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST RESULTS

Remark: Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

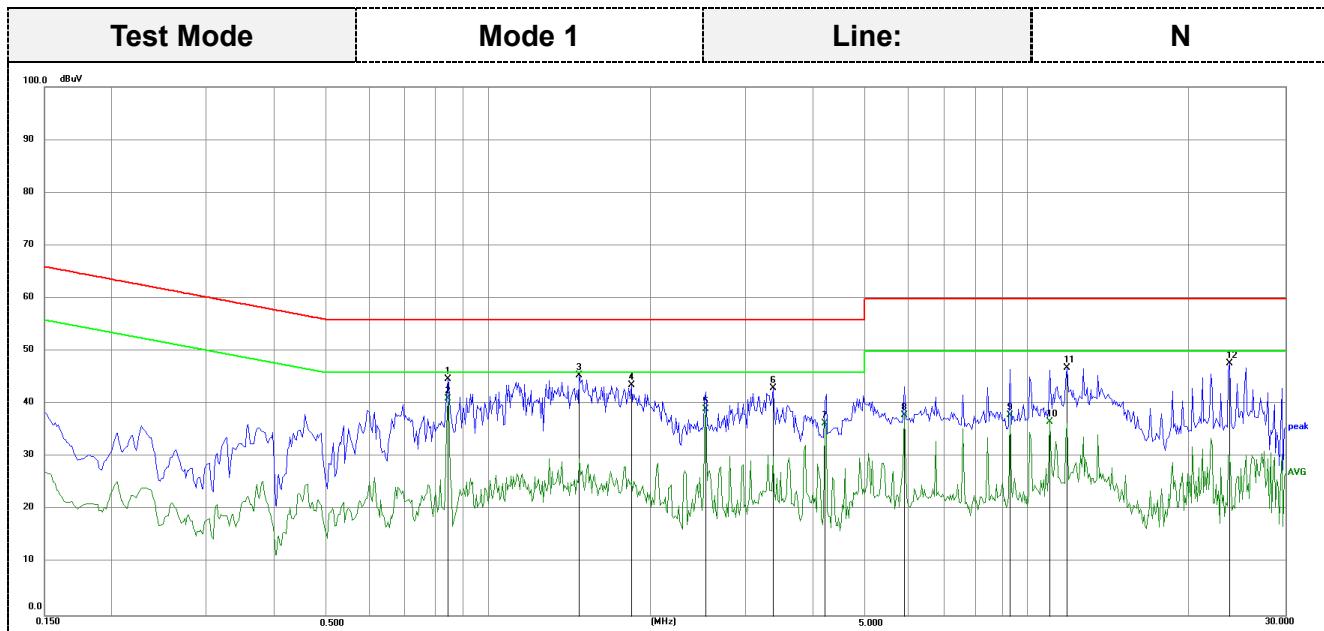


Remark: Correct Factor = Insertion loss of LISN + Cable loss + Insertion loss of Pulse Limiter;

Measurement Result = Reading Level +Correct Factor;

Margin = Measurement Result- Limit

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark	
1	0.8430	36.71	10.66	47.37	56.00	-8.63	peak	
2	0.8430	30.94	10.66	41.60	46.00	-4.40	AVG	
3	3.8490	26.22	11.01	37.23	46.00	-8.77	AVG	
4	4.2000	36.97	11.00	47.97	56.00	-8.03	peak	
5	4.2000	30.40	11.00	41.40	46.00	-4.60	AVG	
6	5.8783	39.43	11.03	50.46	60.00	-9.54	peak	
7	5.8783	31.96	11.03	42.99	50.00	-7.01	AVG	
8	10.9230	31.45	11.17	42.62	50.00	-7.38	AVG	
9	11.7600	41.66	11.25	52.91	60.00	-7.09	peak	
10	14.2934	39.48	11.46	50.94	60.00	-9.06	peak	
11	21.8490	29.97	11.74	41.71	50.00	-8.29	AVG	
12	24.3779	41.24	11.77	53.01	60.00	-6.99	peak	



Remark: Correct Factor = Insertion loss of LISN + Cable loss + Insertion loss of Pulse Limiter;
 Measurement Result = Reading Level + Correct Factor;

Margin = Measurement Result - Limit

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark	
1	0.8430	34.10	10.65	44.75	56.00	-11.25	peak	
2	0.8430	30.46	10.65	41.11	46.00	-4.89	AVG	
3	1.4775	34.69	10.71	45.40	56.00	-10.60	peak	
4	1.8420	32.81	10.75	43.56	56.00	-12.44	peak	
5	2.5350	28.35	10.78	39.13	46.00	-6.87	AVG	
6	3.3810	32.04	10.94	42.98	56.00	-13.02	peak	
7	4.2180	25.40	11.00	36.40	46.00	-9.60	AVG	
8	5.9145	26.92	11.01	37.93	50.00	-12.07	AVG	
9	9.2804	26.99	11.00	37.99	50.00	-12.01	AVG	
10	10.9680	25.47	11.15	36.62	50.00	-13.38	AVG	
11	11.8094	35.71	11.22	46.93	60.00	-13.07	peak	
12	23.6400	35.98	11.68	47.66	60.00	-12.34	peak	

3.2 Radiated Emissions

Limit

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

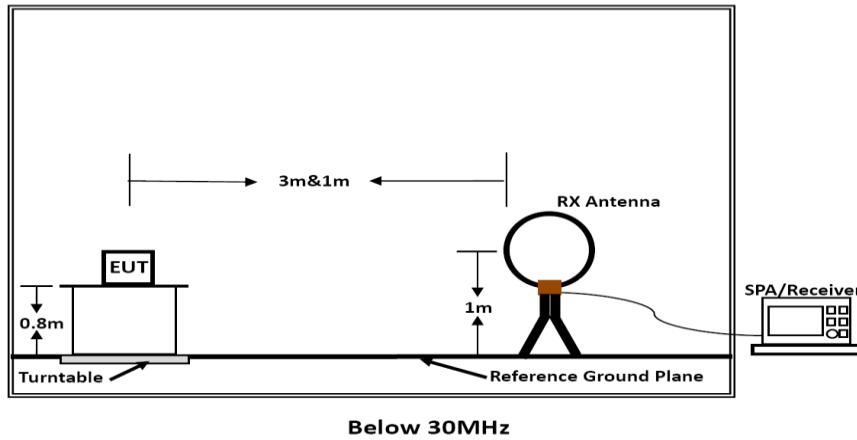
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

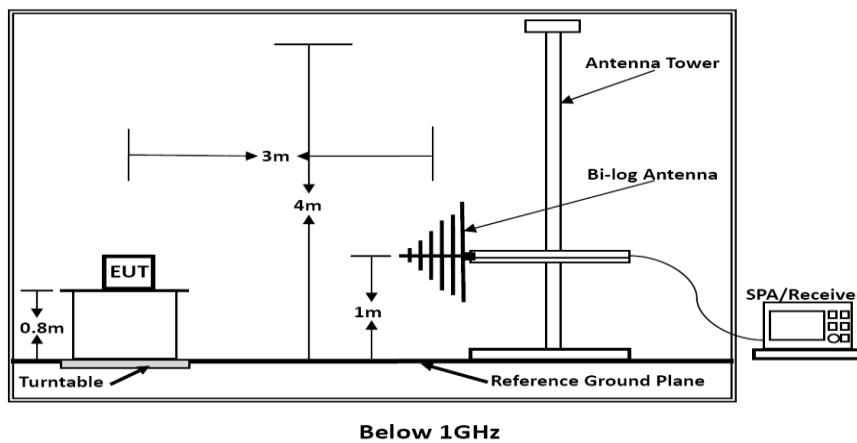
Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST CONFIGURATION

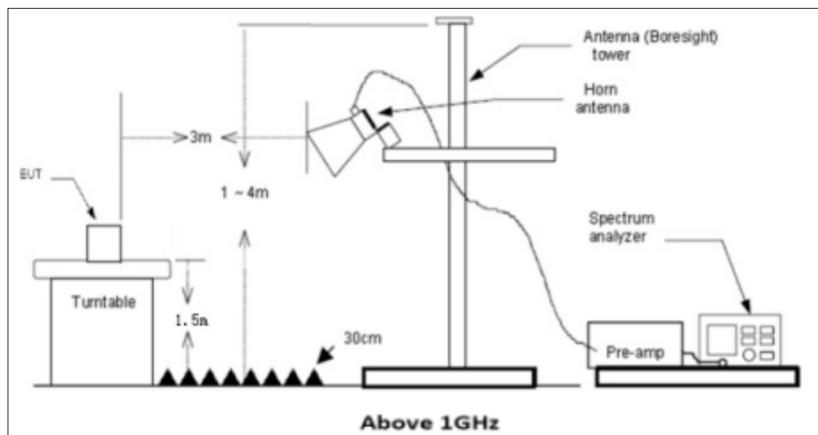
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(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.
5. Radiated emission test frequency band from 9KHz to 1000MHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Bilog Antenna	3

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP

TEST RESULTS

Remark:

1. All test modes described in section 2.3 has been tested, only the worst result of Mode 1 is recorded as below:

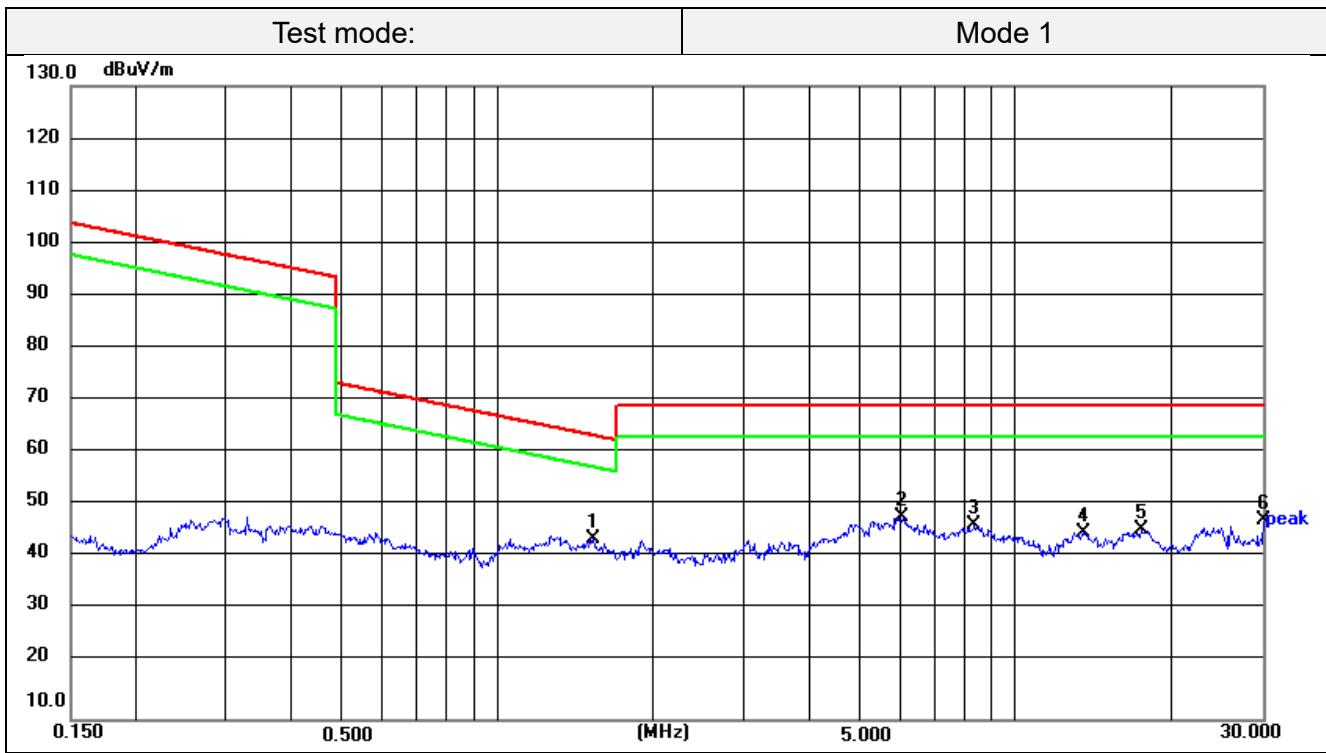
For 9KHz-150KHz



Remark:

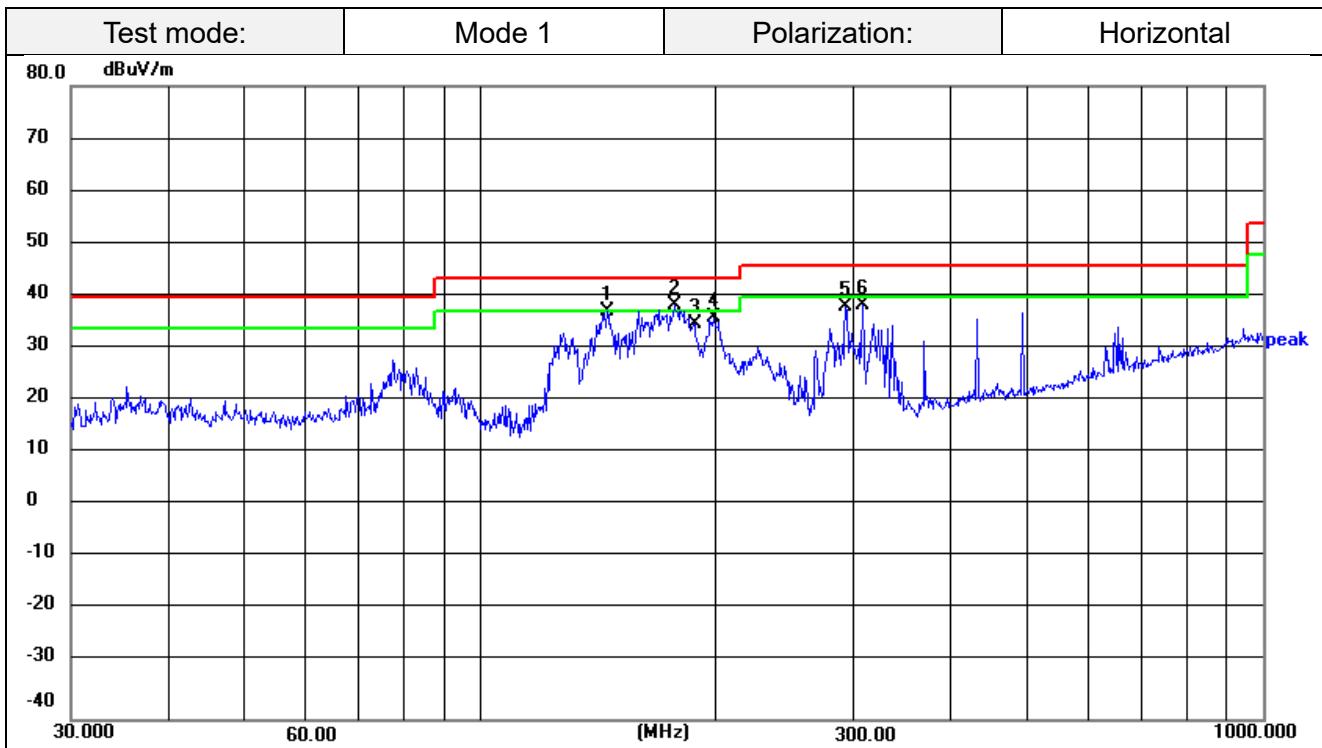
Emission Level = Reading + Factor;
 Factor = Antenna Factor + Cable Loss;
 Margin= Emission Level - Limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.0100	41.28	21.43	62.71	127.60	-64.89	peak
2	0.0177	40.89	20.94	61.83	122.65	-60.82	peak
3	0.0366	38.51	21.80	60.31	116.33	-56.02	peak
4	0.0625	29.76	22.64	52.40	111.69	-59.29	peak
5	0.0826	32.06	22.66	54.72	109.26	-54.54	peak
6	0.1292	68.45	22.11	90.56	105.38	-14.82	peak

For 150KHz-30MHz

Remark:

Emission Level = Reading + Factor;
 Factor = Antenna Factor + Cable Loss;
 Margin= Emission Level - Limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1.5273	21.71	22.49	44.20	63.93	-19.73	peak
2	6.0562	25.46	23.15	48.61	69.54	-20.93	peak
3	8.3228	24.18	22.83	47.01	69.54	-22.53	peak
4	13.5508	22.25	23.31	45.56	69.54	-23.98	peak
5	17.4750	22.51	23.50	46.01	69.54	-23.53	peak
6	30.0000	26.62	21.26	47.88	69.54	-21.66	peak

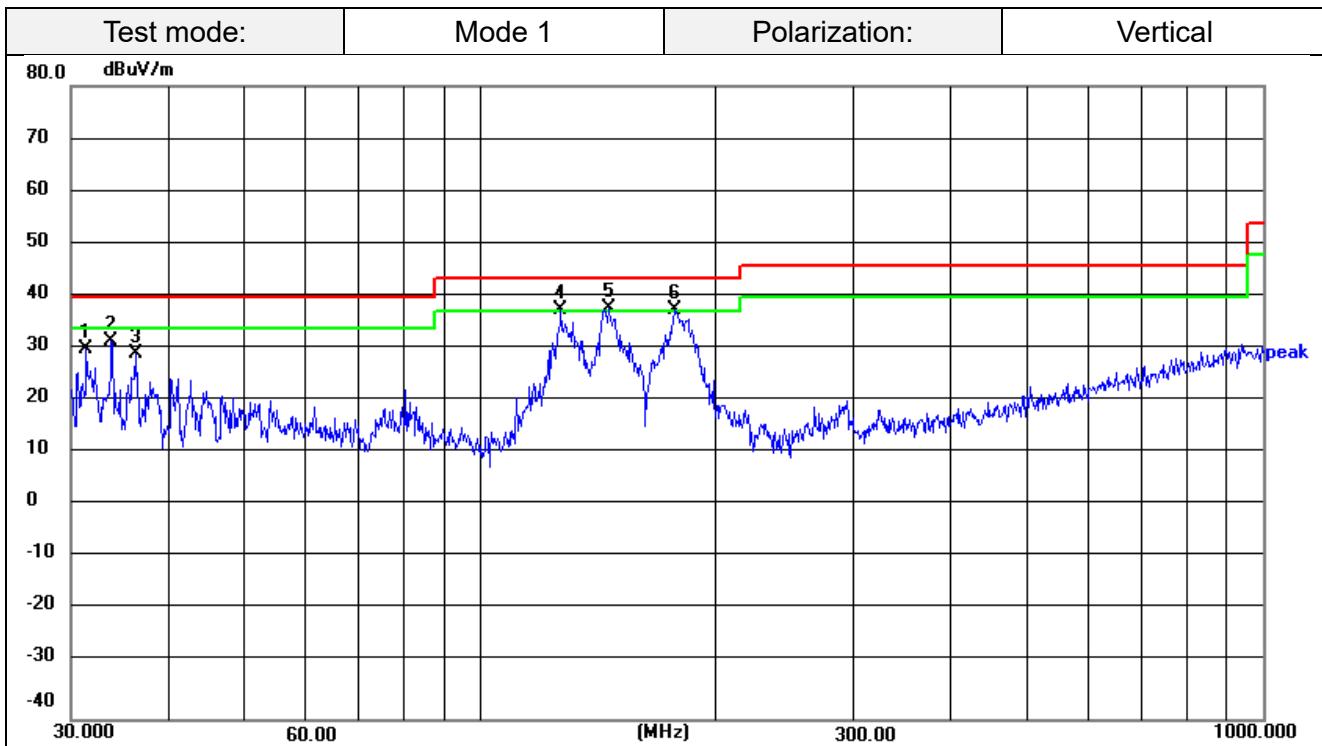
For 30MHz-1GHz

Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	145.3505	54.29	-16.89	37.40	43.50	-6.10	peak
2	176.8876	56.42	-17.86	38.56	43.50	-4.94	peak
3	187.7530	54.20	-19.20	35.00	43.50	-8.50	peak
4	198.5880	56.28	-19.97	36.31	43.50	-7.19	peak
5	293.0842	55.36	-17.15	38.21	46.00	-7.79	peak
6	307.8312	55.42	-16.73	38.69	46.00	-7.31	peak


Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	31.3992	47.75	-17.47	30.28	40.00	-9.72	peak
2	33.7986	49.12	-17.30	31.82	40.00	-8.18	peak
3	36.2540	46.33	-17.03	29.30	40.00	-10.70	peak
4	126.7723	55.51	-17.93	37.58	43.50	-5.92	peak
5	145.8610	54.83	-16.85	37.98	43.50	-5.52	peak
6	176.8877	55.44	-17.86	37.58	43.50	-5.92	peak

3.3 20dB Bandwidth

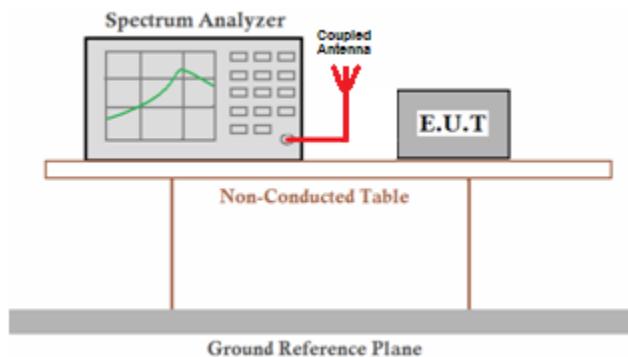
Limit

The 20dB bandwidth shall be less than 80% of the permitted frequency band.

Test Procedure

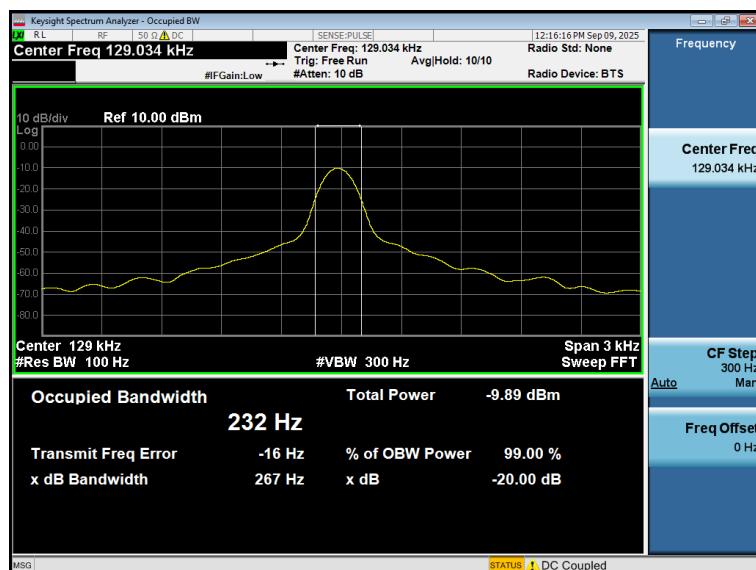
1. Set RBW = 30Hz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

Test setup



Test Results

Mode	Frequency (KHz)	20dB Bandwidth (KHz)	99% OBW (KHz)	Conclusion
Tx Mode	129.034	0.267	0.232	Pass



Note: Since the measured signal is CW-like, it is not practical to adjust the RBW according to C63.10, as the measured bandwidth will always follow the RBW, resulting in approximately twice the RBW.

3.4 Antenna Requirement

Standard Applicable

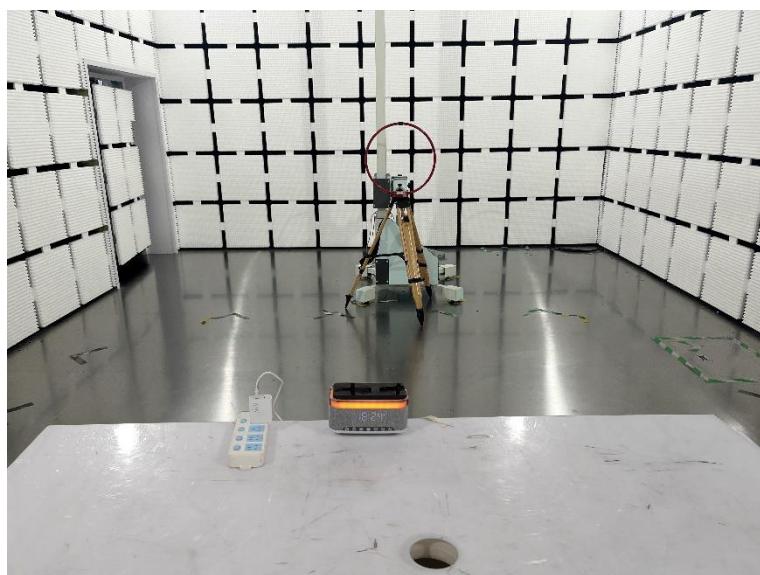
For intentional device, according to FCC 47 CFR Section 15.203:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, 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

Confirmation

The EUT's antenna is an Inductive Loop coil Antenna, the best case gain of the antenna is 0dBi.

4 Test Setup Photographs of EUT



5 Photos of EUT

Please refer to test report No.: AiTSZ-250908105FW1.

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