



Report No.: EA2008241F01001

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**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C REQUIREMENT**

OF

Wireless charger

Model No.: WS-18B

Trademark: N/A

FCC ID: 2AXDL-WS18B

Report No.: EA2008241F01001

Issue Date: September 16, 2020

Prepared for

**Dongguan Chuan OptoElectronics Limited
NO.43 SongShui Road, SongMuShan Village, Dalang Town, DongGuan
City, Guangdong, China**

Prepared by

Dong Guan Anci Electronic Technology Co., Ltd.

**1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan, Lake
Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr.,
China.**

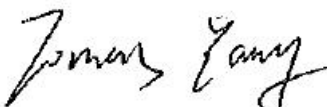

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Dong Guan Anci Electronic Technology Co., Ltd.**

**VERIFICATION OF COMPLIANCE**

Applicant:	Dongguan Chuan OptoElectronics Limited NO.43 SongShui Road,SongMuShan Village,Dalang Town,DongGuan City,Guangdong,China
Manufacturer:	Dongguan Chuan OptoElectronics Limited NO.43 SongShui Road,SongMuShan Village,Dalang Town,DongGuan City,Guangdong,China
Product Description:	Wireless charger
Trade Mark:	N/A
Model Number:	WS-18B

We hereby certify that:

The above equipment was tested by Dong Guan Anci Electronic Technology Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.209.

Date of Test : August 22, 2020 to September 11, 2020Prepared by : 
Tomas Yang/SupervisorReviewer &
Authorized Signer : 
Alan He/Manager



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Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	EA2008241F01001



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1 General Information

1.1 Product Description

Characteristics	Description
Product Name	Wireless charger
Model number	WS-18B
Operation Mode	Wireless Charging
Input Rating	DC 5V~1A, 9V~1.1A, 9V~2.2A, QC 2.0
Power Supply	AC120V/60Hz for adapter
Operating Frequency	110-205KHz
Wireless Charging Power	15W Max
Modulation Technique	ASK
Antenna Type	Induction coil



1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2AXDL-WS18B filing to comply with the FCC Part 15, Subpart C Rules.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

1.6 Test Facility

Site Description
EMC Lab. : Accredited by CNAS, 2017.06.26
The certificate is valid until 2022.10.28
The Laboratory has been assessed and proved to be in compliance with
CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
The Certificate Registration Number is L6214.

Accredited by A2LA, 2018.03.15
The Certificate Number is 4422.01.

Name of Firm : Dong Guan Anci Electronic Technology Co., Ltd.
Site Location : 1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan, Lake
Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr.,
China.



2 System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the fixed in a particular direction according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

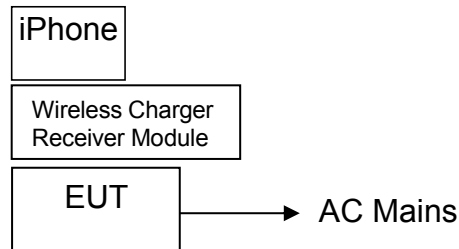


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	Wireless charger	N/A	WS-18B	2AXDL-WS18B	EUT
2.	Adapter	MI	Model:MDY-08-EH Input: AC 100-240V, 50/60Hz Output: DC 5V/3A,DC 9/3A	N/A	Support EUT
3.	iPhone	Apple	A1524	N/A	Support Equipment
4.	Xiaomi 9	MI	Xiaomi 9	N/A	Support Equipment
5.	Wireless Charger Receiver Module	Universal	N/A	N/A	Support Equipment

Note:

- (1) Unless otherwise denoted as EUT in 『Remark』 column, device(s) used in tested system is a support equipment.

3 Summary of Test Results

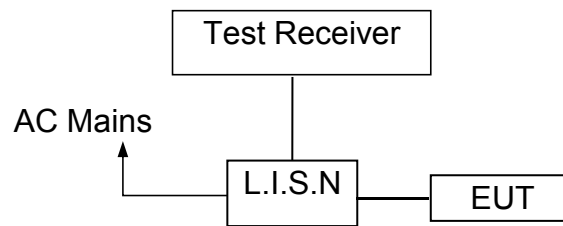
FCC Rules	Description Of Test	Result
§15.207	AC Power Conducted Emission	Compliant
§15.209	Radiated Emission	Compliant
§2.1049	20dB Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant

4 Conducted Emissions Test

4.1 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

4.2 Test SET-UP (Block Diagram of Configuration)



4.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	Calibrated until
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-669	2021-05-18
10 db attenuator	JFW	50FP-010-H4	4360846-427-1	2021-05-18
RF Cable	N/A	N/A	2#	2021-05-18
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2021-05-18

4.4 Conducted Emission Limit

Conducted Emission Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

- Note:** 1. The lower limit shall apply at the transition frequencies
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.



4.5 Measurement Result

Operation Mode:	TX	Test Date :	2020-08-22
Frequency Range:	0.15MHz~30MHz	Temperature :	28°C
Test Result:	PASS	Humidity :	65 %
Test By:	Best		

Pass

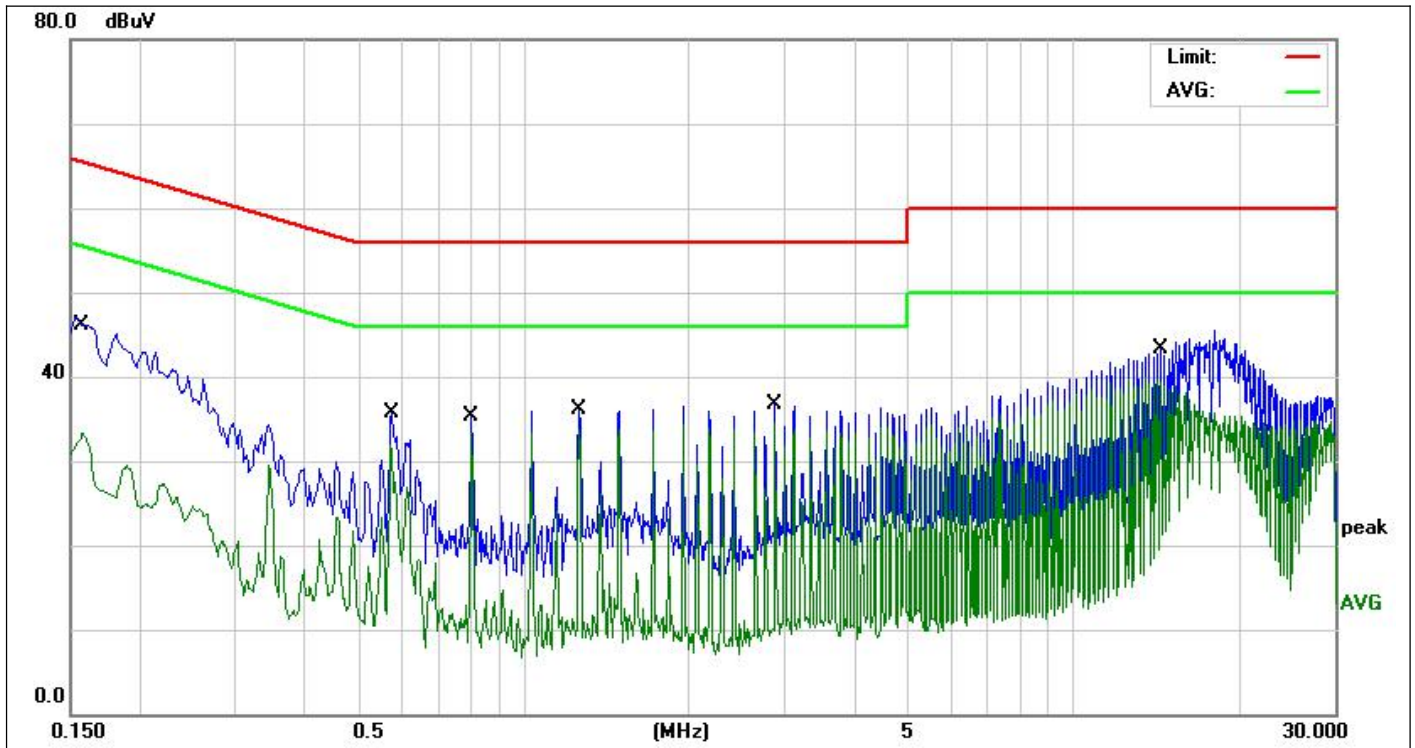
We pretested modes (Wireless Charging(15W),Wireless Charging(5W)) for EUT. The test data see follow the table.



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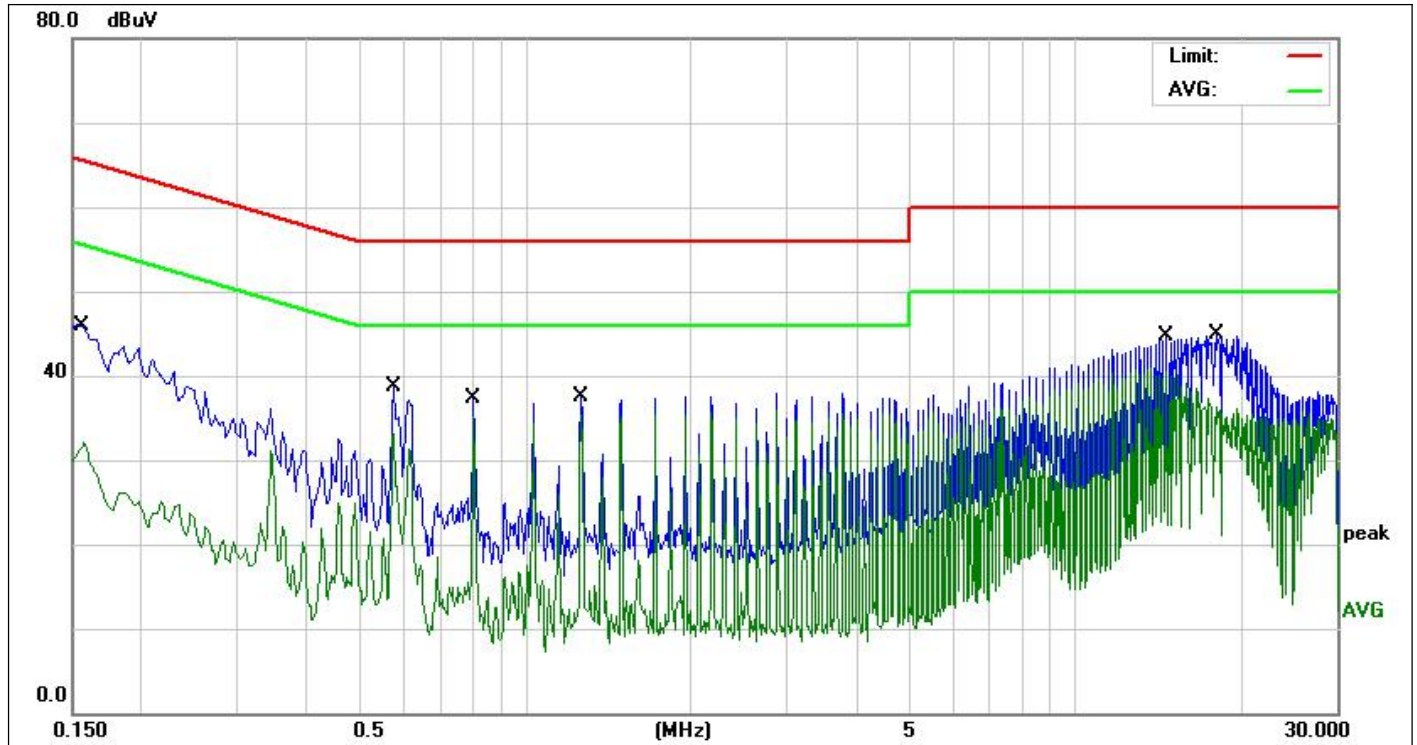
Test mode: Wireless Charging 5W use iphone



Site:	843	Phase:	N	Temperature(C):	26(C)
Limit:	FCC Part 15 C Conduction(QP)	Test Time:	2020-08-22	Humidity(%):	60%
EUT:	Wireless Charger	Power Rating:	AC 120V/60Hz	Test Engineer:	Jack
M/N.:	WS-18B				
Mode:	Wireless Charging 5W				
Note:					

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1590	33.22	10.11	43.33	65.51	-22.18	QP	
2	0.1590	21.72	10.11	31.83	55.51	-23.68	AVG	
3	0.5780	21.91	10.12	32.03	56.00	-23.97	QP	
4	0.5780	20.91	10.12	31.03	46.00	-14.97	AVG	
5	0.8059	24.05	10.14	34.19	56.00	-21.81	QP	
6	0.8059	23.48	10.14	33.62	46.00	-12.38	AVG	
7	1.2660	24.73	10.16	34.89	56.00	-21.11	QP	
8	1.2660	24.05	10.16	34.21	46.00	-11.79	AVG	
9	2.8780	25.11	10.25	35.36	56.00	-20.64	QP	
10	2.8780	24.37	10.25	34.62	46.00	-11.38	AVG	
11	14.5060	30.44	10.88	41.32	60.00	-18.68	QP	
12 *	14.5060	28.38	10.88	39.26	50.00	-10.74	AVG	

*:Maximum data x:Over limit !:over margin



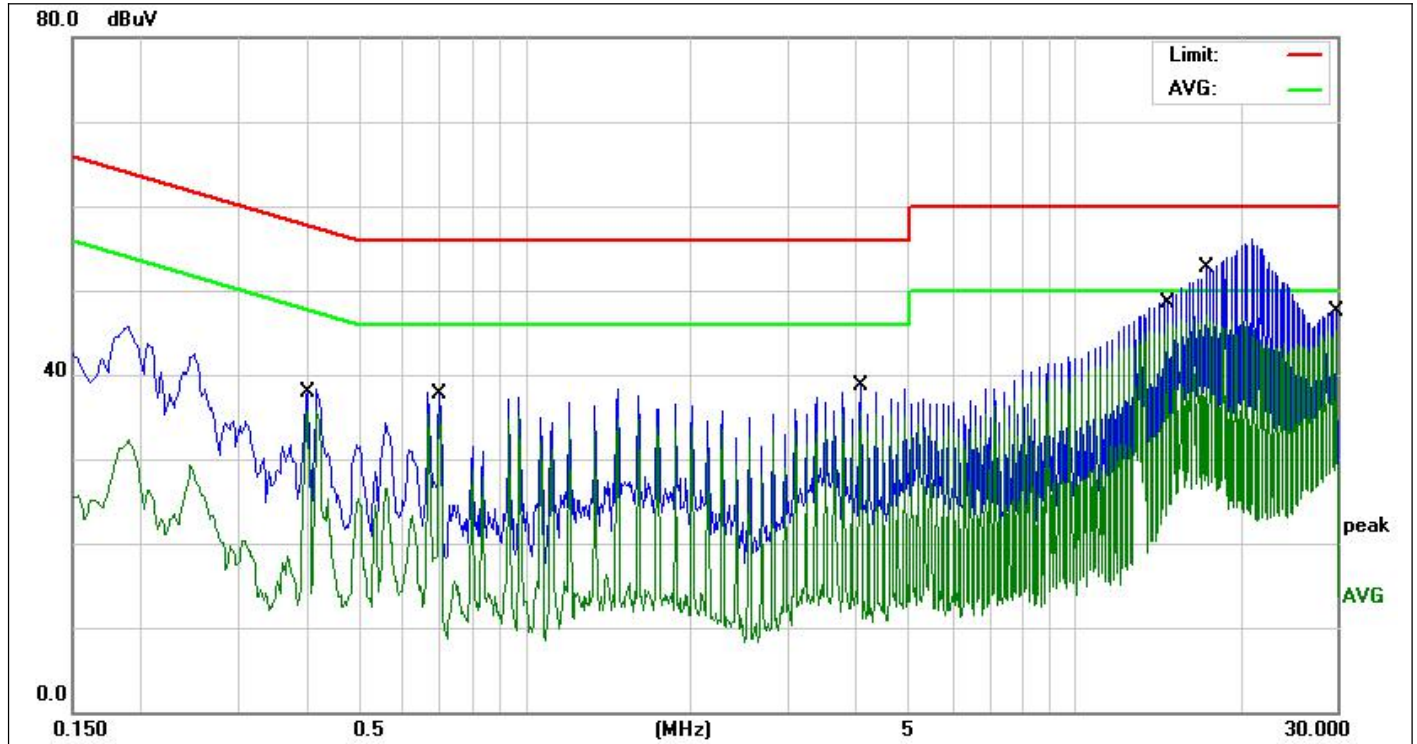
Site:	843	Phase:	L1	Temperature(C):	26(C)
Limit:	FCC Part 15 C Conduction(QP)	Test Time:	2020-08-22	Humidity(%):	60%
EUT:	Wireless Charger	Power Rating:	AC 120V/60Hz		
M/N.:	WS-18B	Test Engineer:	Jack		
Mode:	Wireless Charging 5W				
Note:					

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1580	32.58	10.15	42.73	65.56	-22.83	QP	
2	0.1580	20.99	10.15	31.14	55.56	-24.42	AVG	
3	0.5780	23.32	10.20	33.52	56.00	-22.48	QP	
4	0.5780	22.13	10.20	32.33	46.00	-13.67	AVG	
5	0.8059	25.47	10.23	35.70	56.00	-20.30	QP	
6	0.8059	24.82	10.23	35.05	46.00	-10.95	AVG	
7	1.2660	25.92	10.26	36.18	56.00	-19.82	QP	
8	1.2660	25.31	10.26	35.57	46.00	-10.43	AVG	
9	14.7340	31.50	10.99	42.49	60.00	-17.51	QP	
10 *	14.7340	29.18	10.99	40.17	50.00	-9.83	AVG	
11	18.0700	31.81	11.25	43.06	60.00	-16.94	QP	
12	18.0700	24.92	11.25	36.17	50.00	-13.83	AVG	

*:Maximum data x:Over limit !:over margin



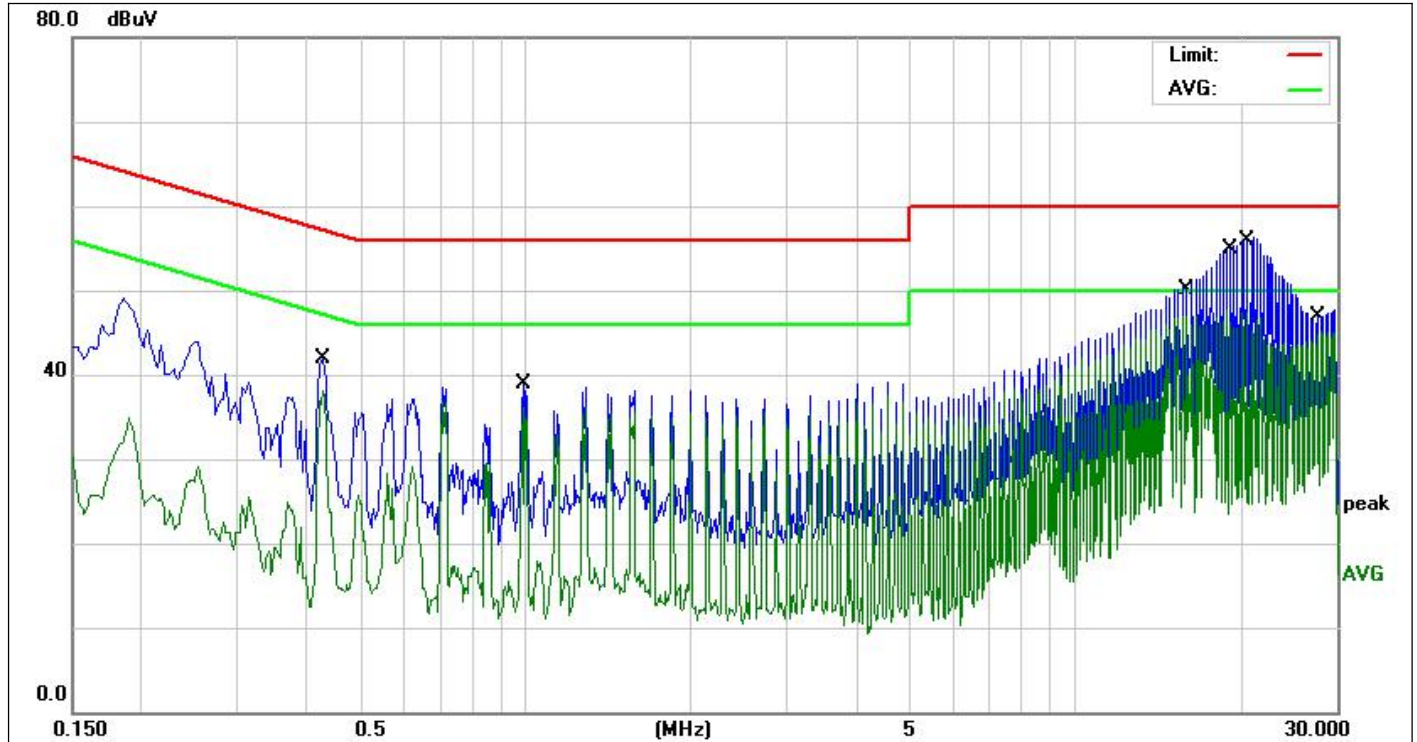
Test mode: Wireless Charging 15W use Xiaomi 9



Site:	843	Phase:	N	Temperature(C):	26(C)
Limit:	FCC Part 15 C Conduction(QP)	Test Time:	2020-08-22	Humidity(%):	60%
EUT:	Wireless Charger	Power Rating:	AC 120V/60Hz	Test Engineer:	Jack
M/N.:	WS-18B				
Mode:	Wireless Charging 15W				
Note:					

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.4020	6.48	10.12	16.60	57.81	-41.21	QP	
2	0.4020	25.67	10.12	35.79	47.81	-12.02	AVG	
3	0.6980	26.36	10.13	36.49	56.00	-19.51	QP	
4	0.6980	25.62	10.13	35.75	46.00	-10.25	AVG	
5	4.0739	11.09	10.31	21.40	56.00	-34.60	QP	
6	4.0739	25.35	10.31	35.66	46.00	-10.34	AVG	
7	14.8020	35.41	10.88	46.29	60.00	-13.71	QP	
8	14.8020	35.19	10.88	46.07	50.00	-3.93	AVG	
9	17.3180	35.03	11.05	46.08	60.00	-13.92	QP	
10 *	17.3180	35.8	11.05	46.85	50.00	-3.15	AVG	
11	29.8860	32.58	11.40	43.98	60.00	-16.02	QP	
12	29.8860	33.92	11.40	45.32	50.00	-4.68	AVG	

*:Maximum data x:Over limit !:over margin

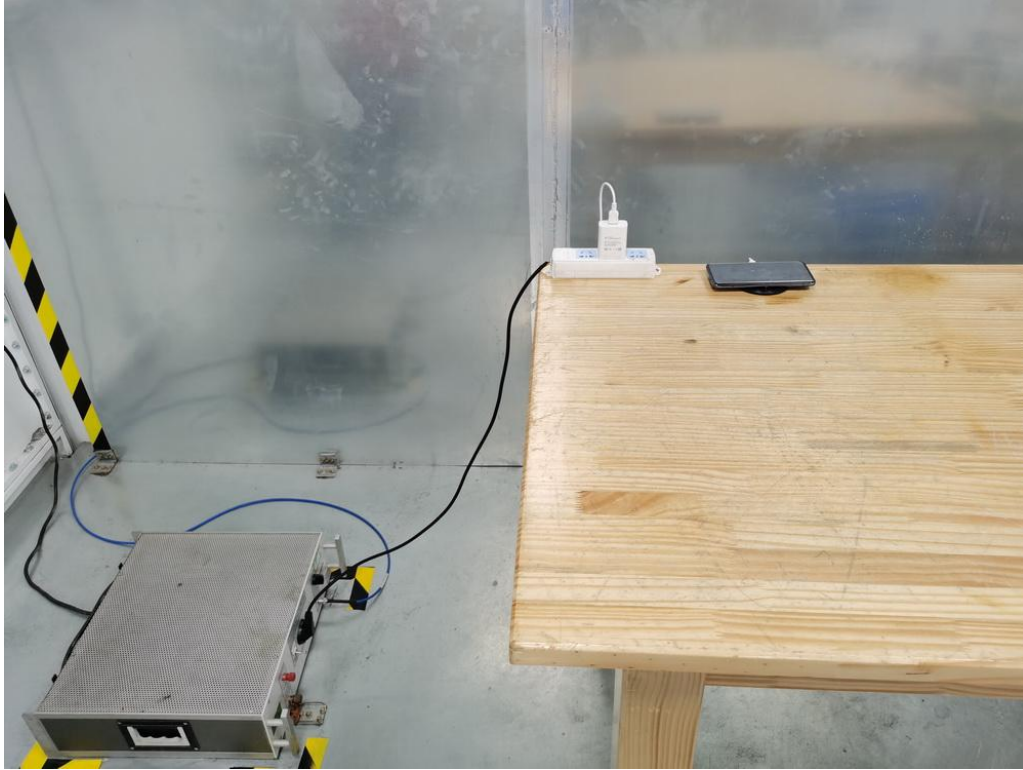


Site:	843	Phase:	L1	Temperature(C):	26(C)
Limit:	FCC Part 15 C Conduction(QP)			Humidity(%):	60%
EUT:	Wireless Charger	Test Time:		2020-08-22	
M/N.:	WS-18B	Power Rating:		AC 120V/60Hz	
Mode:	Wireless Charging 15W	Test Engineer:		Jack	
Note:					

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.4300	29.27	10.19	39.46	57.25	-17.79	QP	
2	0.4300	27.93	10.19	38.12	47.25	-9.13	AVG	
3	0.9900	11.65	10.24	21.89	56.00	-34.11	QP	
4	0.9900	25.88	10.24	36.12	46.00	-9.88	AVG	
5	16.0380	17.14	11.09	28.23	60.00	-31.77	QP	
6	16.0380	35.79	11.09	46.88	50.00	-3.12	AVG	
7	18.9300	35.74	11.31	47.05	60.00	-12.95	QP	
8 *	18.9300	36.44	11.31	47.75	50.00	-2.25	AVG	
9	20.6500	37.30	11.40	48.70	60.00	-11.30	QP	
10	20.6500	34.32	11.40	45.72	50.00	-4.28	AVG	
11	28.1020	16.35	11.51	27.86	60.00	-32.14	QP	
12	28.1020	33.55	11.51	45.06	50.00	-4.94	AVG	

*:Maximum data x:Over limit !:over margin

4.6 Conducted Measurement Photo



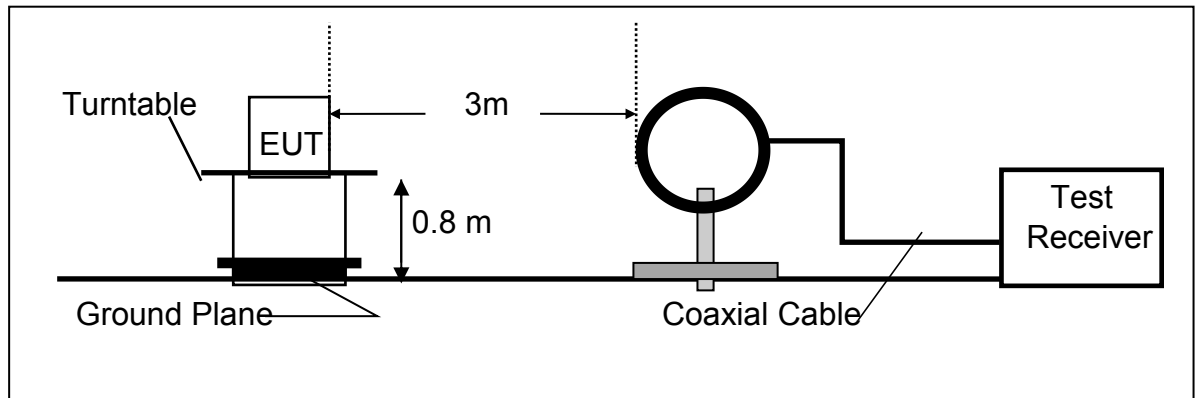
5 Radiated Emission Test

5.1 Measurement Procedure

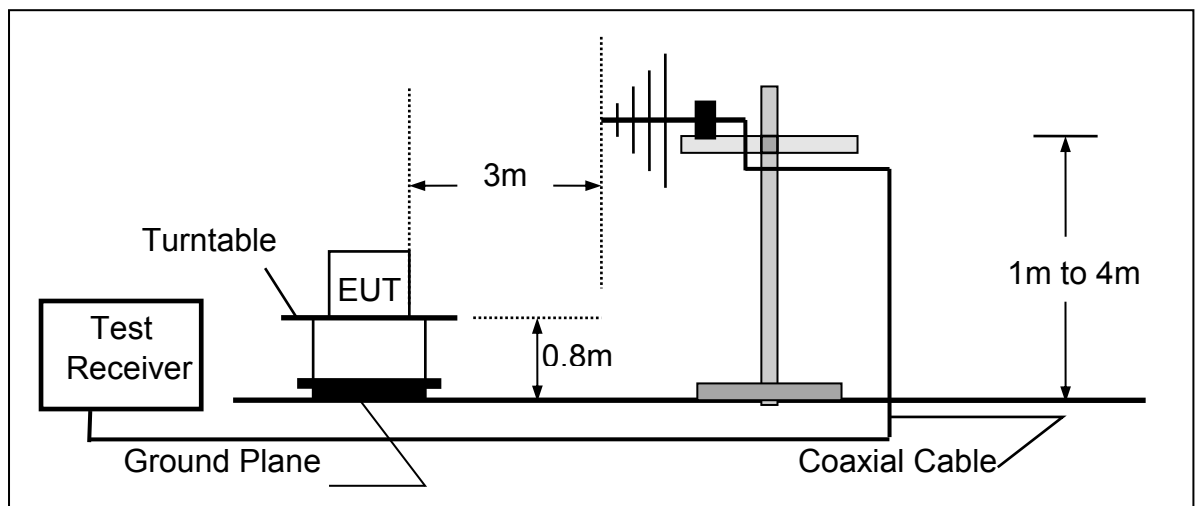
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)

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



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz





5.3 Measurement Equipment Used

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1.	EMI Test Receiver	Rohde & Schwarz	ESPI	100502	2020-11-28
2.	Pre-Amplifier	HP	8447D	2727A06172	2021-05-18
3.	Bilog Antenna	Schwarzbeck	VULB9163	VULB9163-588	2021-05-18
4.	Loop Antenna	Schwarzbeck	FMZB 1516	1516-141	2020-11-28
5.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-2m	N/A	2020-11-28
6.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-0.3m	N/A	2020-11-28
7.	RF Cable	N/A	N/A	6#	2021-05-18
8.	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2021-05-18
9.	Test Software	Farad	EZ-EMC Ver:ANCI-3A1	N/A	N/A

5.4 Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100* 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500



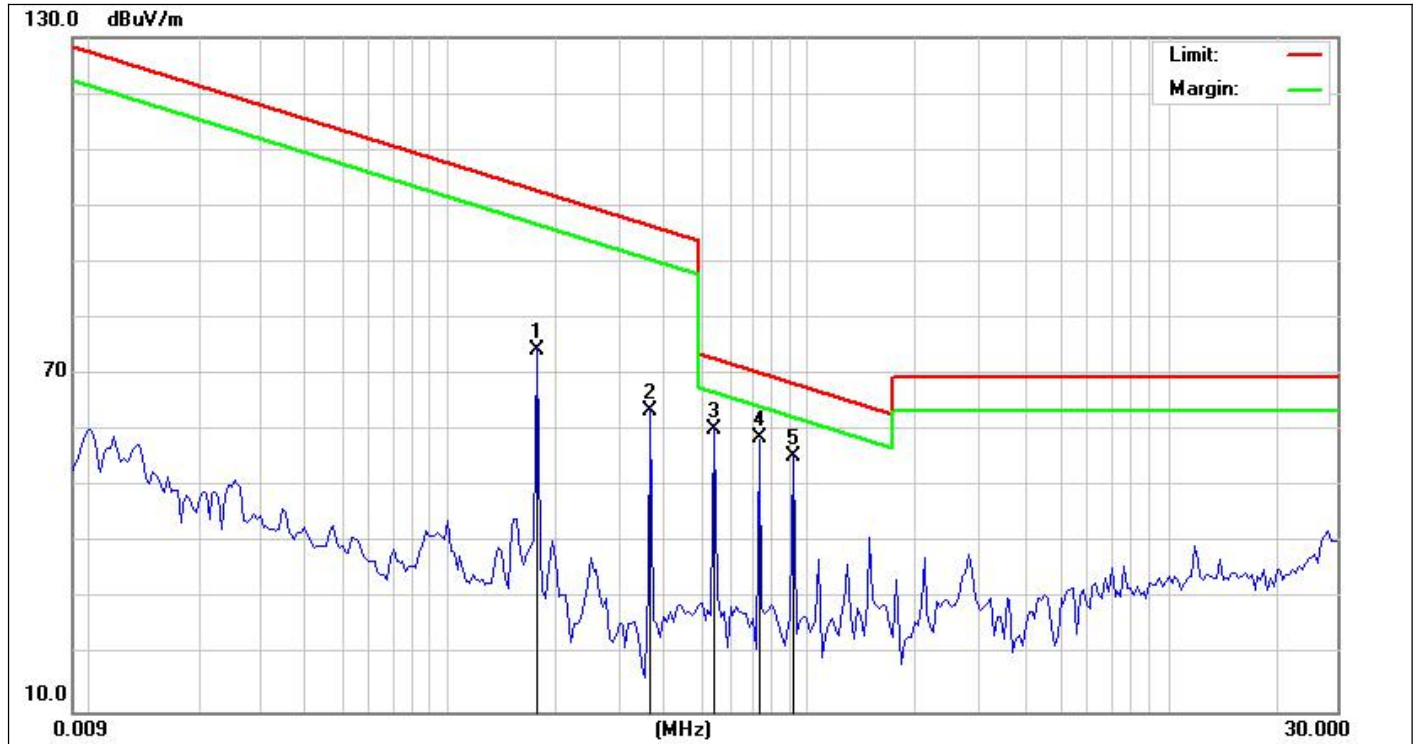
15.205 Restricted bands of operation

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)

- Remark:
1. Emission level in dBuV/m=20 log (uV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

5.5 Measurement Result

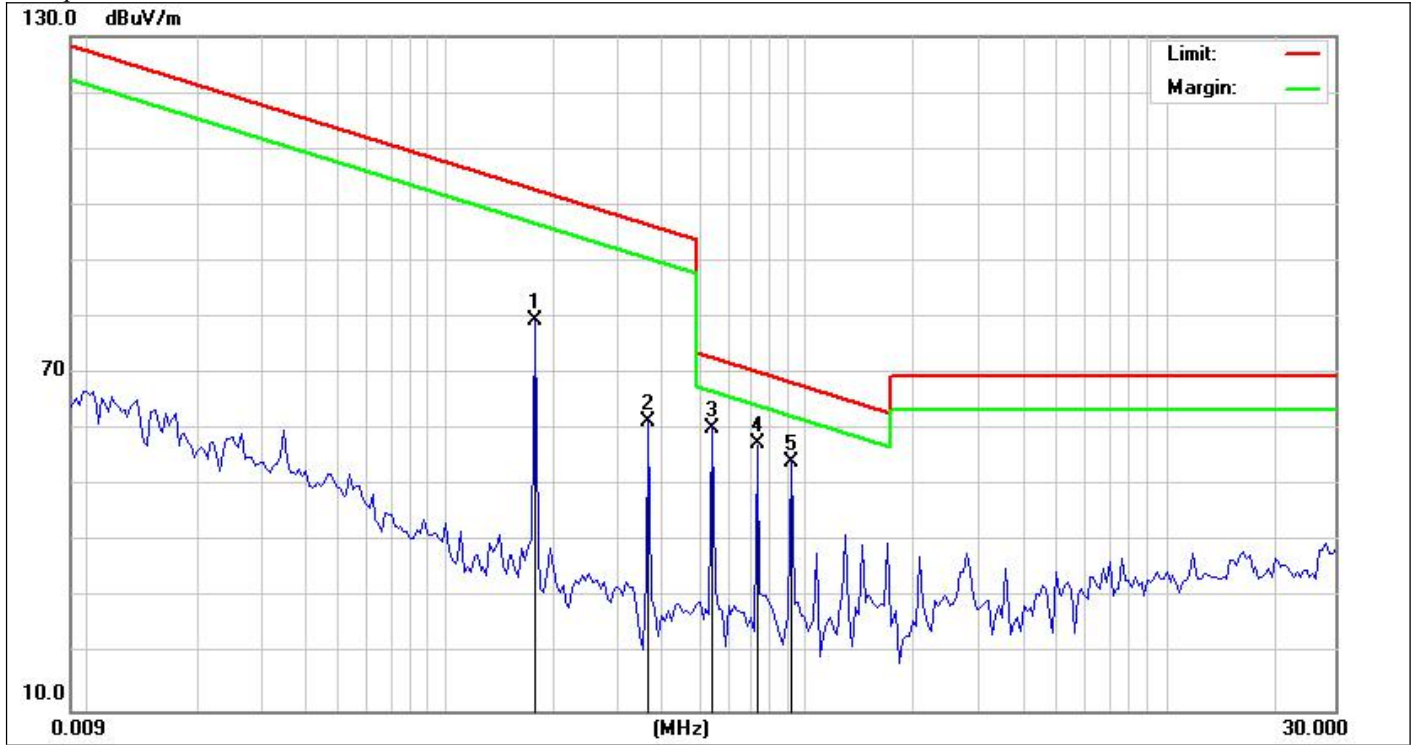
We pretested modes (Wireless Charging(15W),Wireless Charging(5W)) for EUT. The worst mode (Wireless Charging(15W))test data see follow the table.



Site:	LAB	Antenna:Vertical	Temperature(C):23.4(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)	Test Time:	Humidity(%):56.7%
EUT:	Wireless charger	Power Rating:	AC 120V/60Hz
M/N.:	WS-18B	Test Engineer:	sunshine
Mode:	Wireless Charging 15W		
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	0.1800	83.12	-8.77	74.35	102.44	-28.09	QP			
2	0.3602	72.20	-8.68	63.52	96.45	-32.93	QP			
3	0.5421	68.51	-8.16	60.35	72.92	-12.57	QP			
4 *	0.7213	66.17	-7.55	58.62	70.45	-11.83	QP			
5	0.9035	62.77	-7.36	55.41	68.50	-13.09	QP			
6	0.1800	83.12	-8.77	74.35	102.44	-28.09	QP			

*:Maximum data x:Over limit !:over margin



Site:	LAB	Antenna::	Horizontal	Temperature(C):	23.4(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)			Humidity(%):	56.7%
EUT:	Wireless charger	Test Time:			2020-09-02
M/N.:	WS-18B	Power Rating:			AC 120V/60Hz
Mode:	Wireless Charging 5W	Test Engineer:			sunshine
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	0.1800	88.13	-8.77	79.36	102.44	-23.08	QP			
2	0.3602	70.24	-8.68	61.56	96.45	-34.89	QP			
3 *	0.5421	68.48	-8.16	60.32	72.92	-12.60	QP			
4	0.7213	65.07	-7.55	57.52	70.45	-12.93	QP			
5	0.9035	61.72	-7.36	54.36	68.50	-14.14	QP			
1	0.1800	88.13	-8.77	79.36	102.44	-23.08	QP			

- Note:**
- (1) All Readings are Peak Value.
 - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
 - (4) EUT lying on the table position is the worst case result in the report.



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We pretested modes (Wireless Charging(15W), Wireless Charging(5W)) for EUT. The test data see follow the table.

Test mode: Wireless Charging 5W use iphone



Site:	LAB	Antenna::	Horizontal	Temperature(C):	23.4(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)	Test Time:	2020-09-02	Humidity(%):	56.7%
EUT:	Wireless charger	Power Rating:	AC 120V/60Hz	Test Engineer:	sunshine
M/N.:	WS-18B				
Mode:	Wireless Charging 5W				
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	41.8596	33.24	-12.84	20.40	40.00	-19.60	QP			
2	53.0382	32.78	-12.42	20.36	40.00	-19.64	QP			
3 *	97.1148	44.18	-11.66	32.52	43.50	-10.98	QP			
4	125.2260	44.32	-13.45	30.87	43.50	-12.63	QP			
5	149.2239	45.13	-14.39	30.74	43.50	-12.76	QP			
6	210.0482	36.03	-10.55	25.48	43.50	-18.02	QP			

*:Maximum data x:Over limit !:over margin



Site:	LAB	Antenna::	Vertical	Temperature(C):	23.4(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)			Humidity(%):	56.7%
EUT:	Wireless charger	Test Time:	2020-09-02		
M/N.:	WS-18B	Power Rating:	AC 120V/60Hz		
Mode:	Wireless Charging 5W	Test Engineer:	sunshine		
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1 *	33.6213	47.06	-14.14	32.92	40.00	-7.08	QP			
2	53.0382	44.07	-12.42	31.65	40.00	-8.35	QP			
3	78.0020	41.83	-15.47	26.36	40.00	-13.64	QP			
4	94.5941	40.68	-12.17	28.51	43.50	-14.99	QP			
5	126.3286	43.66	-13.58	30.08	43.50	-13.42	QP			
6	146.6304	49.19	-14.42	34.77	43.50	-8.73	QP			

*:Maximum data x:Over limit !:over margin



Test mode: Wireless Charging 15W use Xiaomi 9



Site:	LAB	Antenna::	Vertical	Temperature(C):	23.4(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)			Humidity(%):	56.7%
EUT:	Wireless charger	Test Time:	2020-09-02		
M/N.:	WS-18B	Power Rating:	AC 120V/60Hz		
Mode:	Wireless Charging 15W	Test Engineer:	sunshine		
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1 *	33.0370	47.98	-14.24	33.74	40.00	-6.26	QP			
2	51.6616	38.56	-12.19	26.37	40.00	-13.63	QP			
3	88.9639	43.89	-13.35	30.54	43.50	-12.96	QP			
4	147.9214	46.32	-14.40	31.92	43.50	-11.58	QP			
5	173.2051	45.69	-12.65	33.04	43.50	-10.46	QP			
6	210.0482	41.42	-10.55	30.87	43.50	-12.63	QP			

*:Maximum data x:Over limit !:over margin

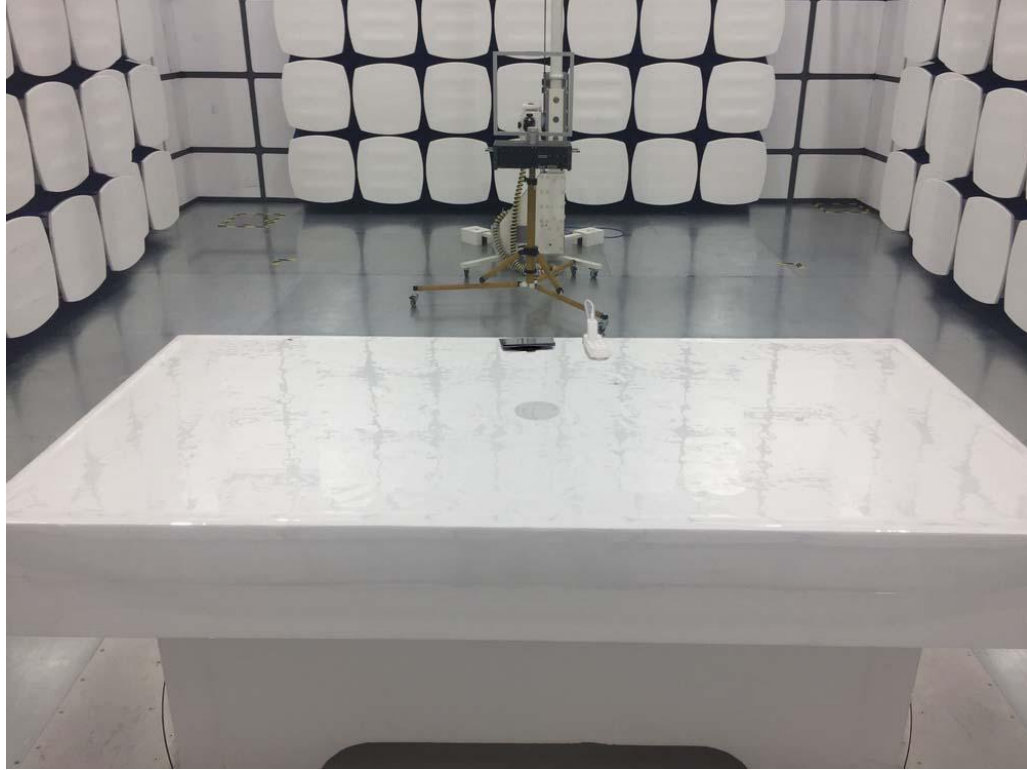


Site:	LAB	Antenna::	Horizontal	Temperature(C):	23.4(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)			Humidity(%):	56.7%
EUT:	Wireless charger	Test Time:	2020-09-02		
M/N.:	WS-18B	Power Rating:	AC 120V/60Hz		
Mode:	Wireless Charging 15W	Test Engineer:	sunshine		
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	47.7422	29.41	-12.17	17.24	40.00	-22.76	QP			
2 *	94.5941	43.48	-12.17	31.31	43.50	-12.19	QP			
3	120.9109	40.00	-12.94	27.06	43.50	-16.44	QP			
4	147.9214	39.95	-14.40	25.55	43.50	-17.95	QP			
5	177.8207	36.60	-12.37	24.23	43.50	-19.27	QP			
6	210.0482	40.63	-10.55	30.08	43.50	-13.42	QP			

*:Maximum data x:Over limit !:over margin

5.6 Radiated Measurement Photos



6 20db Bandwidth

6.1 20dB Bandwidth Limit

None: for reporting purposed only.

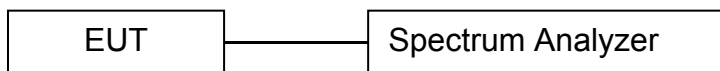
6.2 Test Instruments

Refer a test equipment and calibration data table in this test report.

6.3 Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 10Hz RBW and 30Hz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

6.4 Test Setup

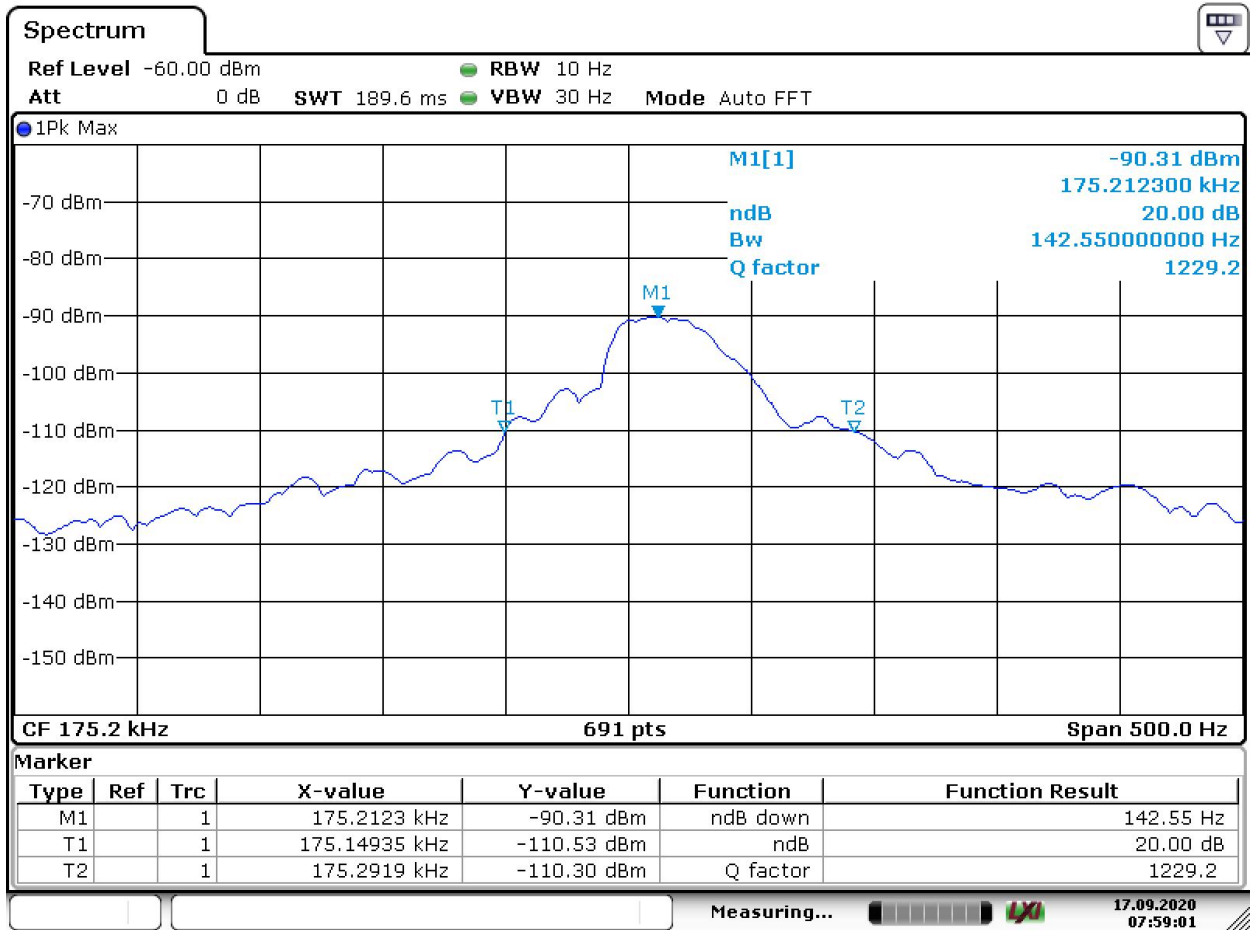


6.5 Test Result

Frequency (KHz)	20dB Bandwidth (Hz)	Results
175.2	142.55	PASS



20 dB Bandwidth Test plot



Date: 17.SEP.2020 07:59:00



7 Antenna Application

7.1 Antenna requirement

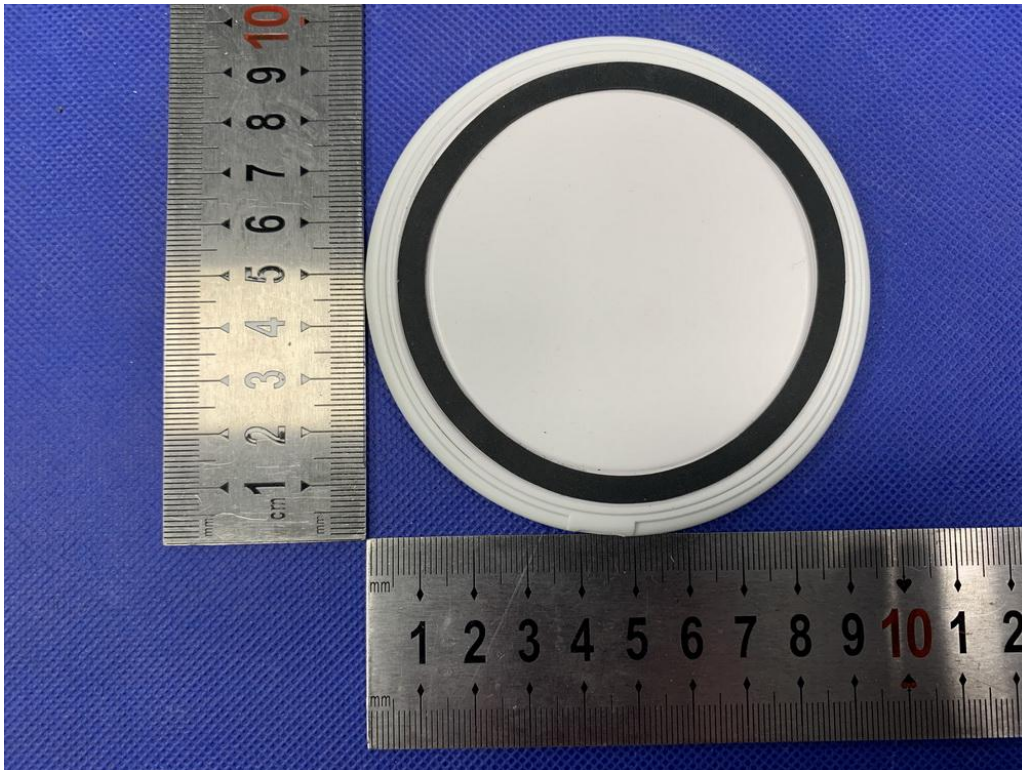
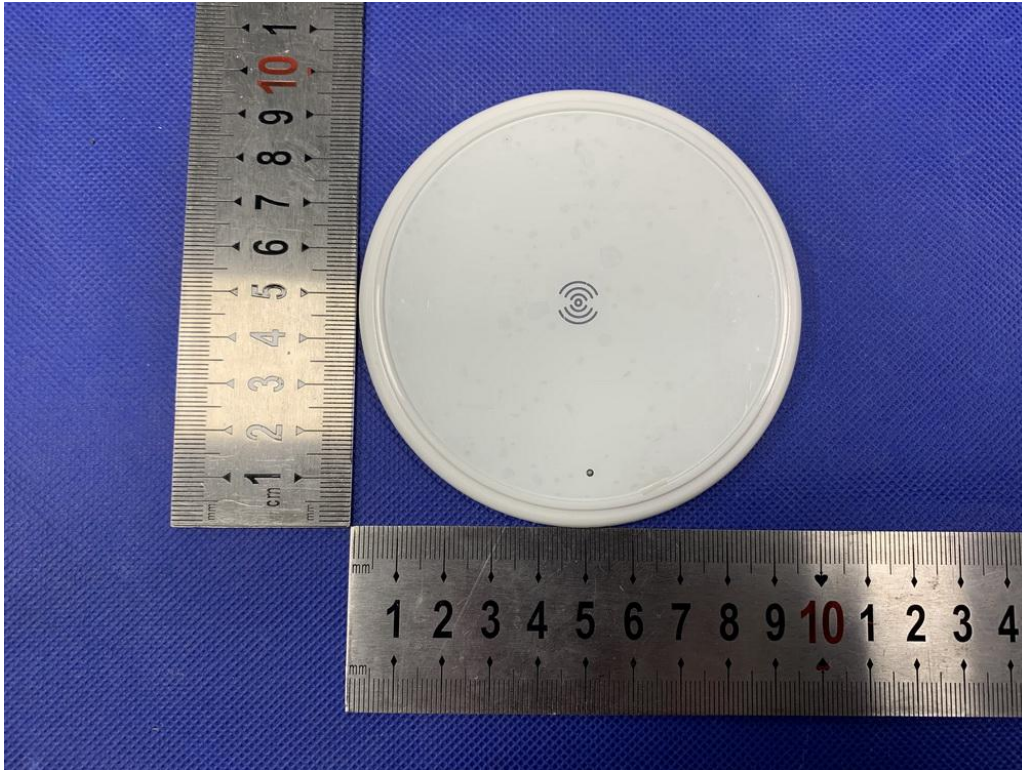
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

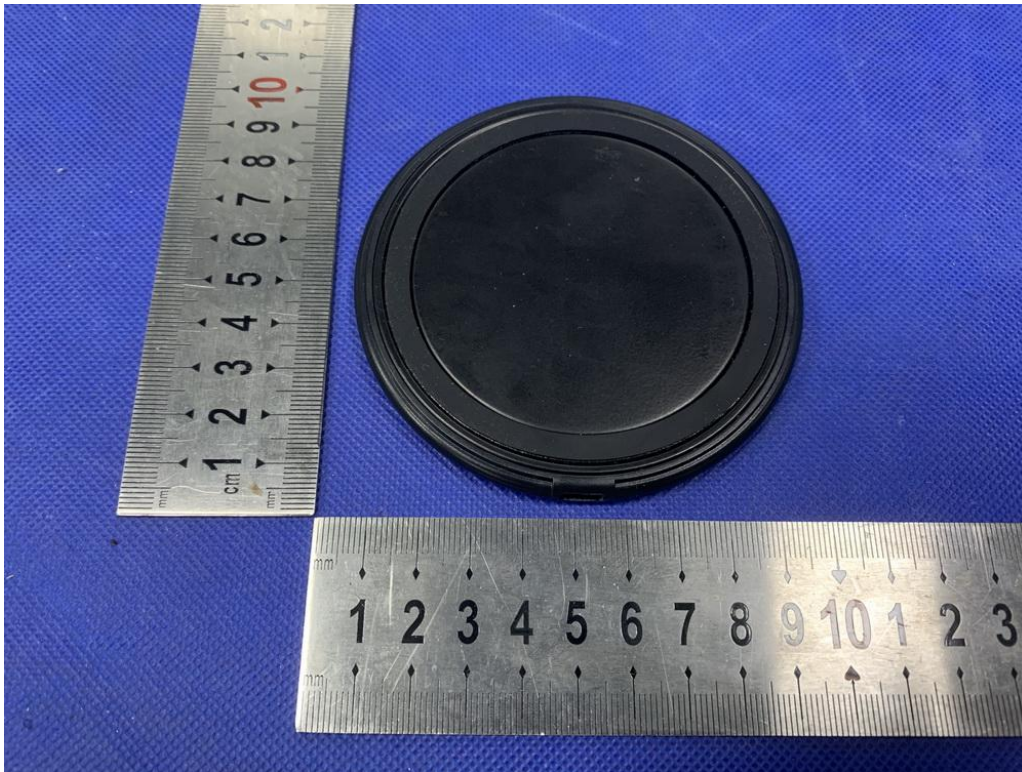
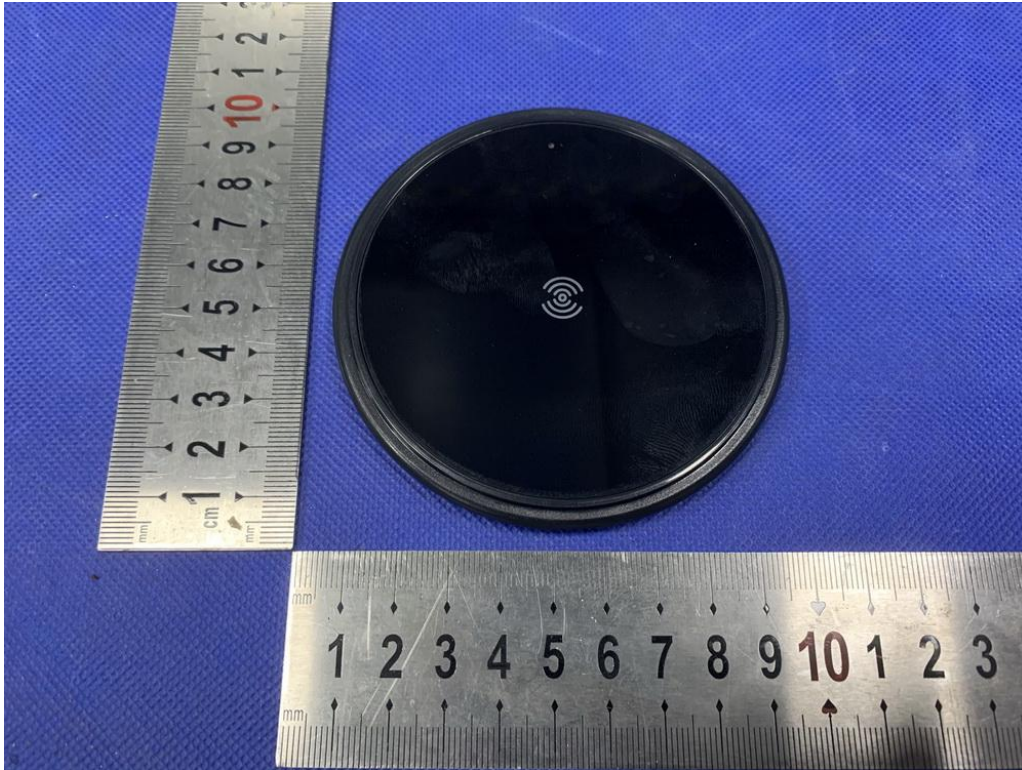
7.2 Result

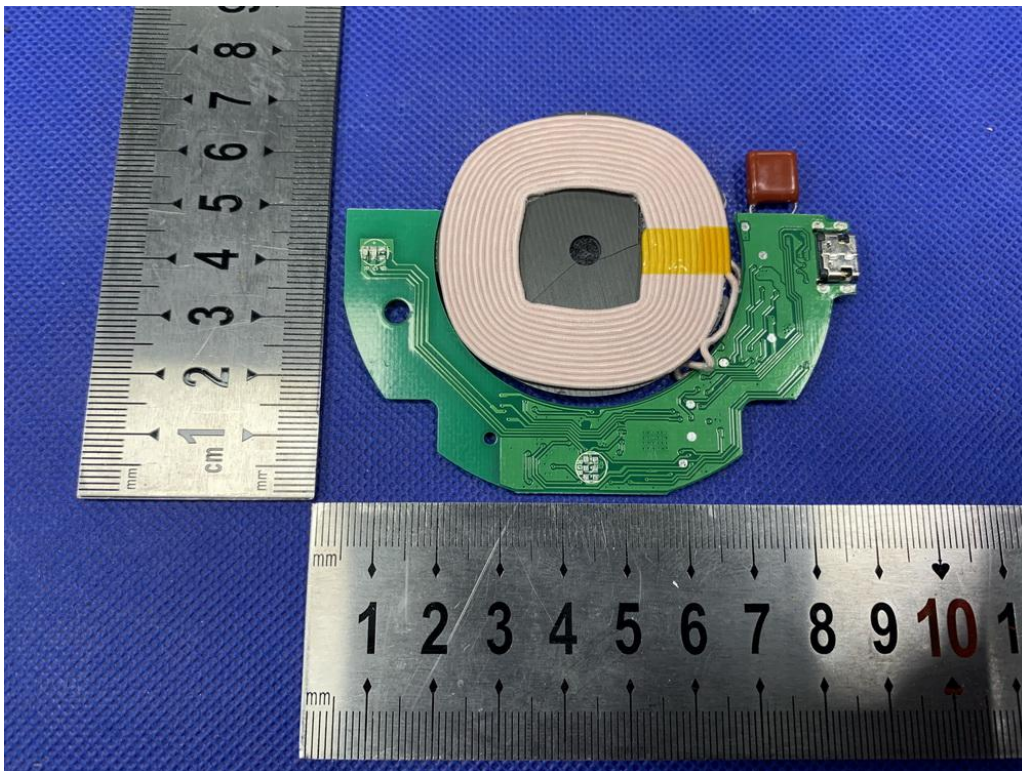
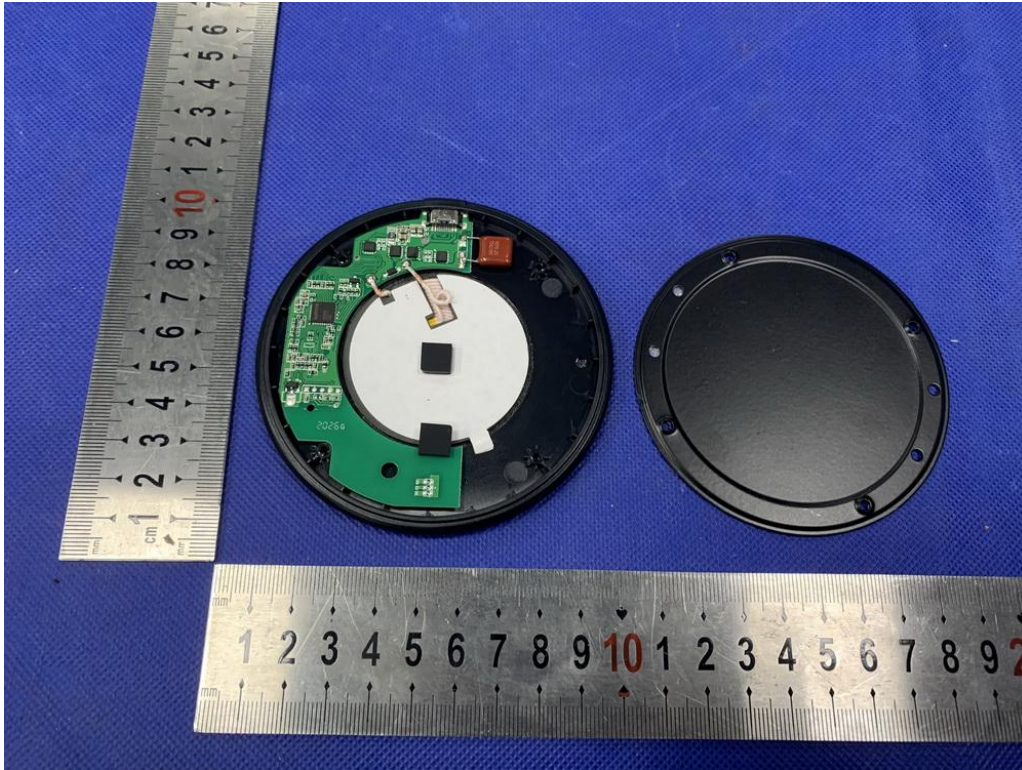
The EUT's antenna, permanent attached antenna, used an Induction coil and integrated on PCB, The antenna's gain meets the requirement.

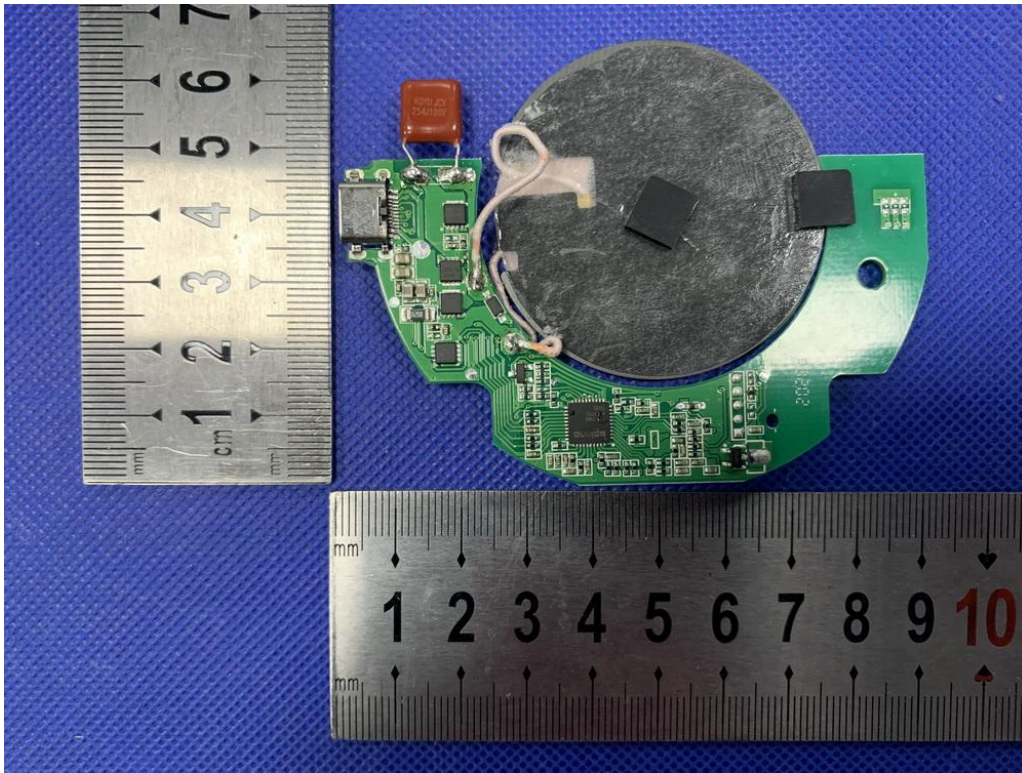


APPENDIX (Photos of EUT)









-----The end of report-----