

# **TEST REPORT**

Product Name : Color Changing Bluetooth Alarm Clock

Speaker with Qi Wireless Charging and USB

Charging

Model Number: iBTW281v2, iBTW281v2B, iBTW281v2X (X

could be any alphabet denotes different

cabinet color)

FCC ID : EMOIBTW281V2A

Prepared for : SDI Technologies Inc.

Address : 1299, Main Street, Rahway, NJ 07065, U.S.A.

Prepared by : EMTEK (DONGGUAN) CO., LTD.

Address : -1&2/F.,Building 2, Zone A, Zhongda Marine Biotechnology

Reserch and Development Base, No.9, Xincheng Avenue, Songshanhu High-technology Industrial Development Zone,

Dongguan, Guangdong, China

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Report Number : ES200117068E1

Date(s) of Tests : January 17, 2020 to March 11, 2020

Date of issue : March 11, 2020

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# **VERIFICATION OF COMPLIANCE**

Applicant:	SDI Technologies Inc. 1299, Main Street, Rahway, NJ 07065, U.S.A.					
Manufacturer:	SDI Technologies Inc. 1299 Main Street, Rahway, NJ 07065, U.S.A					
Product Description:	Color Changing Bluetooth Alarm Clock Speaker with Qi Wireless Charging and USB Charging					
Trade Mark:	iHome					
Model Number:	iBTW281v2, iBTW281v2B, iBTW281v2X (X could be any alphabet denotes different cabinet color)(Note: The samples are the same except difference color of appearance and model number, Here iBTW281v2 was selected for full test.)					

# We hereby certify that:

The above equipment was tested by EMTEK(SHENZHEN) 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 15C.

Date of Test :	January 17, 2020 to March 11, 2020
Prepared by :	Loren Luo
	Loren Luo /Editor
Destinant	7im Dong
Reviewer :	Tim Dong /SupervisoreNZHEN,
	Tim bong /Supervisore (A)
Approved & Authorized Signer:	PESTING
_	Lisa Wang /Manager

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# **Modified Information**

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	1	ES200117068E1



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# 1 General Information

# 1.1 Product Description

Characteristics	Description				
Product Name	Color Changing Bluetooth Alarm Clock Speaker with Qi Wireless Charging and USB Charging				
Model number	iBTW281v2, iBTW281v2B, iBTW281v2X (X could be any alphabet denotes different cabinet color)				
Power Supply	AC120V/60Hz for adapter				
Adapter	Model:BQ30A-0903300-U Input:100-240V 50/60Hz Max 800mA Output:9.0V 3300mA				
Operating Frequency	110-148kHz				
Wireless Charing Power	9W				
Product Software Version	V1.0				
Product Hardware version	V1.0				
Modulation Technique	Induction				
Antenna Type	Induction coil				

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# 1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: EMOIBTW281V2A 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, 2016.10.24

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 L2291.

Accredited by TUV Rheinland Shenzhen 2016.5.19

The Laboratory has been assessed according to the requirements ISO/IEC

17025.

Accredited by FCC, August 03, 2017

Designation Number: CN1204

Test Firm Registration Number: 882943

Accredited by Industry Canada, November 24, 2015

The Certificate Registration Number is 4480A.

Accredited by A2LA, July 31, 2017 The Certificate Number is 4321.01.

Name of Firm : EMTEK(SHENZHEN) CO., LTD.

Site Location : Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen,

Guangdong, China.

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# 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.

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# 2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

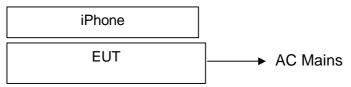


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	Color Changing Bluetooth Alarm Clock Speaker with Qi Wireless Charging and USB Charging	iHome	iBTW281v2	EMOIBTW281V2A	EUT
2.	Adapter	Adapter iHome		N/A	Support EUT
3.	iPhone	Apple	A1524	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

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# 4 Description of test modes

Channel	Frequency(KHz)
Low frequency	110
Mid frequency	124
High frequency	148



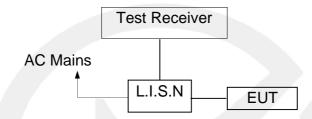


# 5 Conducted Emissions Test

### 5.1 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.

# 5.2 Test SET-UP (Block Diagram of Configuration)



# 5.3 Measurement Equipment Used

Conducted Emission Test Site								
<b>EQUIPMENT</b>	MFR	MODEL	SERIAL	Last Cal.	Due date			
TYPE		NUMBER	NUMBER					
Test Receiver	Rohde & Schwarz	ESCS30	100018	05/23/2019	05/22/2020			
L.I.S.N	Rohde & Schwarz	ENV216	100017	05/23/2019	05/22/2020			
RF Switching Unit	CDS	RSU-M2	38401	05/23/2019	05/22/2020			
Coaxial Cable	CDS	79254	46107086	05/23/2019	05/22/2020			

# 5.4 Conducted Emission Limit

#### **Conducted Emission**

Frequency(MHz)	quency(MHz) Quasi-peak		
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.

接来者他海科技有限公司
 地址:广东省东莞市松山湖高新技术产业开发区新版大道9号中大海洋生物同社研发基地AIE2号か公理员一提、第二层 同址:Hittp://www.emitek.com.cn 蘇茲:E-mail: project@emitek.com.cn
 MAdd: -18.2F、Building 2.Zone A.Zhongda Marine Bioschnology Research and Development Base ,No.9、Xincheng Avenue, Songshanhu High-technology Industrial Development Zone,
 Dongguan, Guangdong,China Hittp://www.emitek.com.cn E-mail: project@emitek.com.cn

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# 5.5 Measurement Result

Operation Mode: TX Test Date: February 23,2020

Frequency Range: 0.15MHz $\sim$ 30MHz Temperature: 28 $^{\circ}$ C Test Result: PASS Humidity: 65 $^{\circ}$ 

Test By: Loren

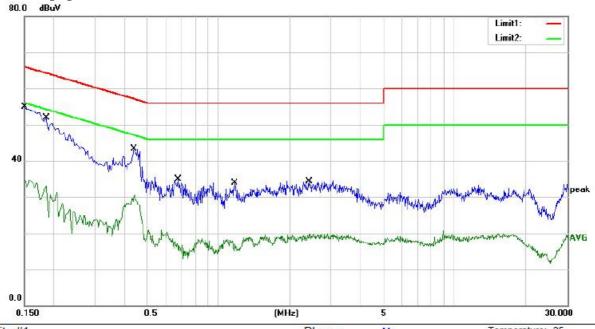
# **Pass**

We pretested three modes (max load, mid load, min load) for EUT. The worst mode (max load) test data see follow the table.





Wireless Charging



Site site #1 Phase: N Temperature: 25
Limit: (CE)FCC PART 15 C QP Power: AC 120V/60Hz Humidity: 55 %

Limit: (CE)FCC PART 15 C\_QP Mode: Wireless Charging

Note:

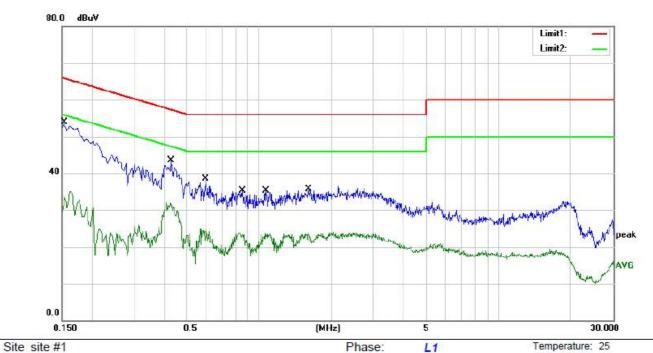
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	44.85	10.01	54.86	66.00	-11.14	QP	
2		0.1500	25.13	10.01	35.14	56.00	-20.86	AVG	
3		0.1860	41.79	10.03	51.82	64.21	-12.39	QP	
4		0.1860	22.26	10.03	32.29	54.21	-21.92	AVG	
5		0.4380	33.13	10.15	43.28	57.10	-13.82	QP	
6		0.4380	20.46	10.15	30.61	47.10	-16.49	AVG	
7		0.6740	24.74	10.18	34.92	56.00	-21.08	QP	
8		0.6740	7.90	10.18	18.08	46.00	-27.92	AVG	
9		1.1700	23.70	10.18	33.88	56.00	-22.12	QP	
10		1.1700	8.64	10.18	18.82	46.00	-27.18	AVG	
11		2.4180	24.21	10.18	34.39	56.00	-21.61	QP	
12		2.4180	9.70	10.18	19.88	46.00	-26.12	AVG	

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Lian



Humidity:

55 %



Power: AC 120V/60Hz

Limit: (CE)FCC PART 15 C\_QP

Mode: Wireless Charging

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1540	43.82	10.01	53.83	65.78	-11.95	QP	
2		0.1540	25.19	10.01	35.20	55.78	-20.58	AVG	
3		0.4300	33.28	10.15	43.43	57.25	-13.82	QP	
4		0.4300	22.08	10.15	32.23	47.25	-15.02	AVG	
5		0.5980	28.32	10.18	38.50	56.00	-17.50	QP	
6		0.5980	14.74	10.18	24.92	46.00	-21.08	AVG	
7		0.8500	25.03	10.18	35.21	56.00	-20.79	QP	
8		0.8500	13.62	10.18	23.80	46.00	-22.20	AVG	
9		1.0660	25.10	10.18	35.28	56.00	-20.72	QP	
10		1.0660	13.58	10.18	23.76	46.00	-22.24	AVG	
11		1.6020	25.52	10.18	35.70	56.00	-20.30	QP	
12		1.6020	13.43	10.18	23.61	46.00	-22.39	AVG	

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Lian



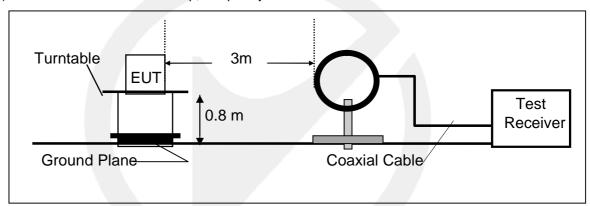
# 6 Radiated Emission Test

#### 6.1 Measurement Procedure

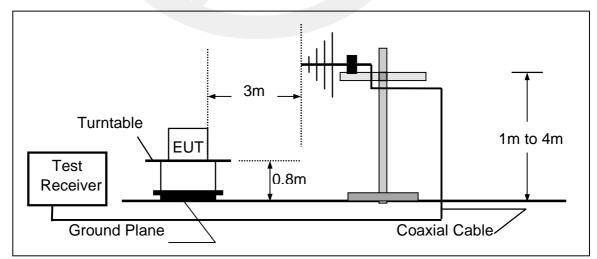
- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat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

# 6.2 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



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# 6.3 Measurement Equipment Used

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due date
Test Receiver	Rohde & Schwarz	ESCI	1166.5950.03	05/23/2019	05/22/2020
Signal Analyzer	Rohde & Schwarz	FSV30	103040	05/23/2019	05/22/2020
Loop Antenna	Schwarzbeck	FMZB 1519	012	05/23/2019	05/22/2020
Bilog Antenna	Schwarzbeck	VULB9163	000141	05/23/2019	05/22/2020
Power Amplifier	CDS	RSU-M352	818	05/23/2019	05/22/2020
Power Amplifier	HP	8447F	OPT H64	05/23/2019	05/22/2020
Color Monitor	SUNSPO	SP-140A	N/A	05/23/2019	05/22/2020
Single Line Filter	JIANLI	XL-3	N/A	05/23/2019	05/22/2020
Single Phase Power Line Filter	JIANLI	DL-2X100B	N/A	05/23/2019	05/22/2020
3 Phase Power Line Filter	JIANLI	DL-4X100B	N/A	05/23/2019	05/22/2020
DC Power Filter	JIANLI	DL-2X50B	N/A	05/23/2019	05/22/2020
Cable	Schwarzbeck	PLF-100	549489	05/23/2019	05/22/2020
Cable	Rosenberger	CIL02	A0783566	05/23/2019	05/22/2020
Cable	Rosenberger	RG 233/U	525178	05/23/2019	05/22/2020

# 6.4 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									
	Field Streng		Field Strength Limitation Frequency tion at 3m						
Frequency	Limitation		Measurement Dist						
(MHz)	(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					

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# 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
<sup>1</sup> 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	( <sup>2</sup> )

#### 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 x 15.205, and the emissions located in restricted bands also comply with 15.209 limit



#### 6.5 Measurement Result

We pretested three modes (max load, mid load, min load) for EUT. The worst mode (max load) and worst test frequency(frequency: 127KHz)test data see follow the table.

Operation Mode: Low frequency Test Date: February 23,2020

Frequency Range: 9KHz~30MHz Temperature:  $20^{\circ}$ C Test Result: PASS Humidity:  $55^{\circ}$ 6 Measured Distance: 3m Test By: Loren

Wireless Charging

cicss charging					
Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)	
0.127(F)	Н	74.68	105.49	-30.81	PK
7.26	Н	46.29	69.54	-23.25	PK
8.32	Н	45.32	69.54	-24.22	PK
12.56	Н	48.31	69.54	-21.23	PK
21.58	Н	48.45	69.54	-21.09	PK
0.127(F)	V	71.58	105.49	-33.91	PK
7.59	V	43.69	69.54	-25.85	PK
10.52	V	45.28	69.54	-24.26	PK
11.64	V	44.61	69.54	-24.93	PK
19.67	V	45.36	69.54	-24.18	PK

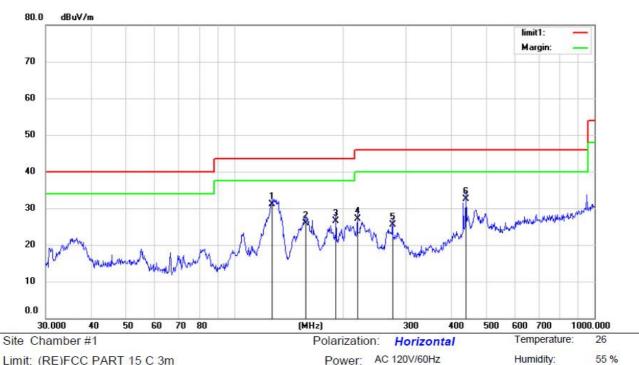
Note: (1) All Readings are Peak Value.

- (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.



Humidity:

Operator: Bill



Limit: (RE)FCC PART 15 C 3m

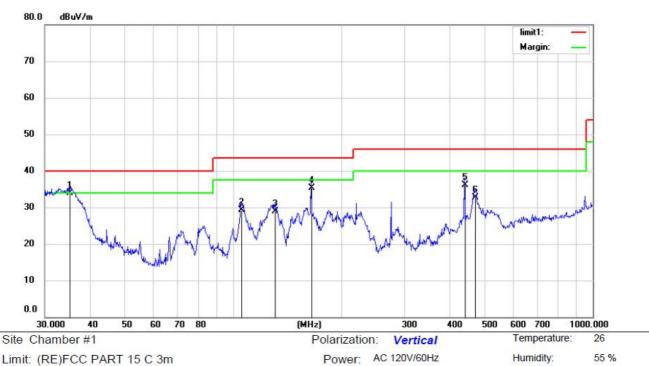
Mode: Wireless Charging

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	127.6645	52.34	-21.22	31.12	43.50	-12.38	QP			
2		158.1123	46.74	-20.81	25.93	43.50	-17.57	QP			
3		191.7450	44.52	-18.02	26.50	43.50	-17.00	QP			
4		219.8448	43.93	-16.76	27.17	46.00	-18.83	QP			
5		275.1570	40.17	-14.69	25.48	46.00	-20.52	QP			
6		440.1962	42.56	-10.13	32.43	46.00	-13.57	QP			

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





Limit: (RE)FCC PART 15 C 3m

Mode: Wireless Charging

Note:

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	35.1278	52.47	-18.53	33.94	40.00	-6.06	QP			
2		105.6415	47.53	-18.20	29.33	43.50	-14.17	QP			
3		130.8370	50.17	-21.36	28.81	43.50	-14.69	QP			
4	0	164.9075	55.63	-20.35	35.28	43.50	-8.22	QP			
5	8	440.1963	46.18	-10.13	36.05	46.00	-9.95	QP			
6	-	472.1760	42.36	-9.69	32.67	46.00	-13.33	QP			

\*:Maximum data x:Over limit !:over margin Operator: Bill



# 7 20db Bandwidth

### 7.1 20dB Bandwidth Limit

None: for reporting purposed only.

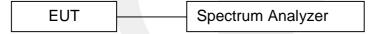
# 7.2 Test Instruments

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

# 7.3 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. The working mode (9W wireless charging)

# 7.4 Test Setup



#### 7.5 Test Result

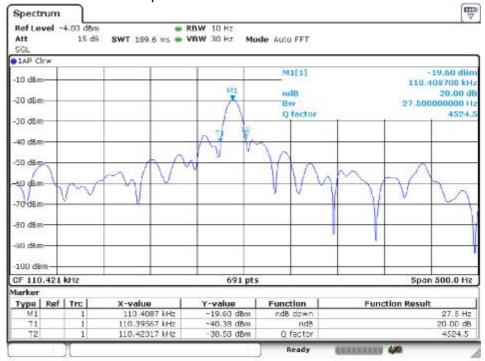
**Sumsung 9W Wireless Charging** 

Lowest frequency	20dB Bandwidth	Results
(KHz)	(Hz)	
110.42	27.5	PASS

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# 20 dB Bandwidth Test plot





# 8 Antenna Application

# 8.1 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.

### 8.2 Result

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

# 9 Photos of EUT

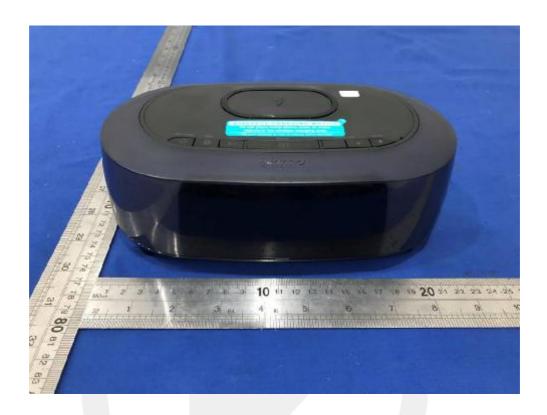
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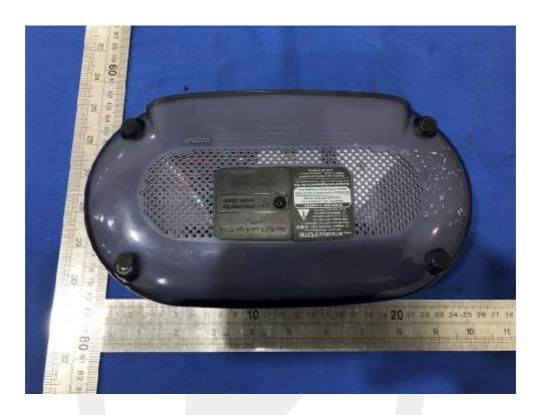














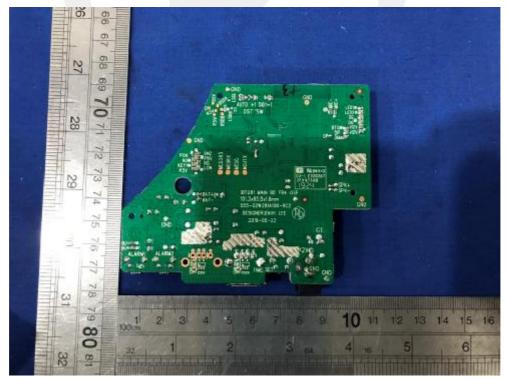




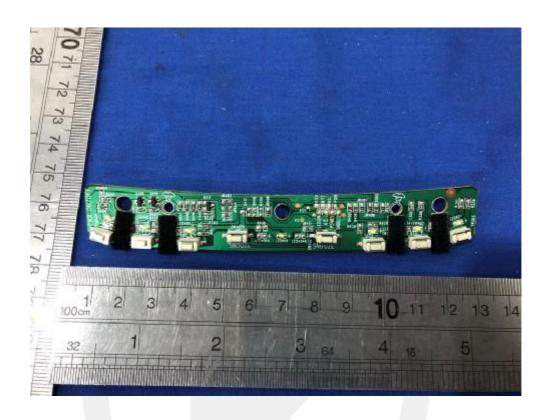












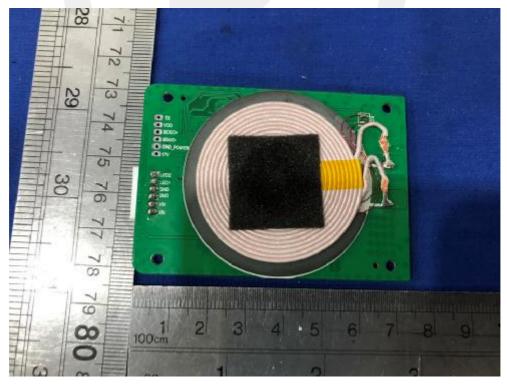


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