

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

OF

Dual alarm Clock with Wireless Charging and USB Charge Port

Model No.: iBTW23, iBTW23X (X means A-Z, denote as color of cabinet)

Trademark: iHome

FCC ID: EMOIBTW23

Report No.: ES180109022E2

Issue Date: January 25, 2018

Prepared for

**SDI TECHNOLOGIES INC.
1299, Main Street, Rahway, NJ 07065, U.S.A.**

Prepared by

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EMTEK(SHENZHEN) CO., LTD.**

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.
Factory:	DongGuan Synst Electronics Co., Ltd. The Science & Technology Industrial Park, Houjie Town, DongGuan, China.
Product Description:	Dual alarm Clock with Wireless Charging and USB Charge Port
Trade Mark:	iHome
Model Number:	iBTW23, iBTW23X (X means A-Z, denote as color of cabinet) (Note: The samples are the same except difference color of appearance and model number, Here iBTW23 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 09, 2018 to January 23, 2018

Yaping Shen

Prepared/Tested by : Yaping Shen/Editor

Joe Xia

Reviewer : Joe Xia/Supervisor

Lisa Wang

Approved & Authorized Signer : Lisa Wang/Manager

Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	ES180109022E3

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1 General Information

1.1 Product Description

Characteristics	Description
Product Name	Dual alarm Clock with Wireless Charging and USB Charge Port
Model number	iBTW23
Input Rating	DC 9V from adapter
Power Supply	AC120V/60Hz for adapter
Adapter1	Manufacturer: Dongguan City Gangqi Electronic Co., Ltd. Model number:GQ24-090300-AU Input rating: 100-240V~, 50/60Hz, 1.0A Max. Output rating: DC 9.0V, 3.0A
Adapter2	Manufacturer: Dongguan Becky Electronic Co., Ltd. Model number:S030A0903000U Input rating: 100-240V~, 50/60Hz, Max.800mA Output rating: DC 9.0V, 3000mA
Operating Frequency	127-205KHz
Modulation Technique	Induction
Antenna Type	Induction coil
Radio Software Version	iBTW23_20180118_1721_V015
Radio Hardware version	IBTW23 REV: 002

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: EMOIBTW23 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.

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

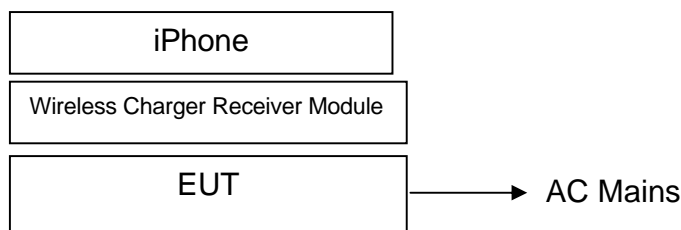


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	Dual alarm Clock with Wireless Charging and USB Charge Port	iHome	iBTW23	EMOIBTW23	<i>EUT</i>
2.	Adapter1	N/A	GQ24-090300-AU	N/A	<i>Support EUT</i>
3.	Adapter2	N/A	S030A0903000U	N/A	<i>Support EUT</i>
4.	iPhone	Apple	A1524	N/A	<i>Support Equipment</i>
5.	Wireless Charger Receiver Module	Universal	N/A	N/A	<i>Support Equipment</i>

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 Description of test modes

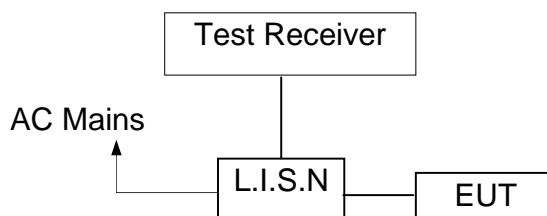
Channel	Frequency(KHz)
Low frequency	127
Mid frequency	166
High frequency	205

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					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	Last Cal.	Due date
Test Receiver	Rohde & Schwarz	ESCS30	100018	05/16/2017	05/15/2018
L.I.S.N	Rohde & Schwarz	ENV216	100017	05/16/2017	05/15/2018
RF Switching Unit	CDS	RSU-M2	38401	05/16/2017	05/15/2018
Coaxial Cable	CDS	79254	46107086	05/16/2017	05/15/2018

5.4 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.

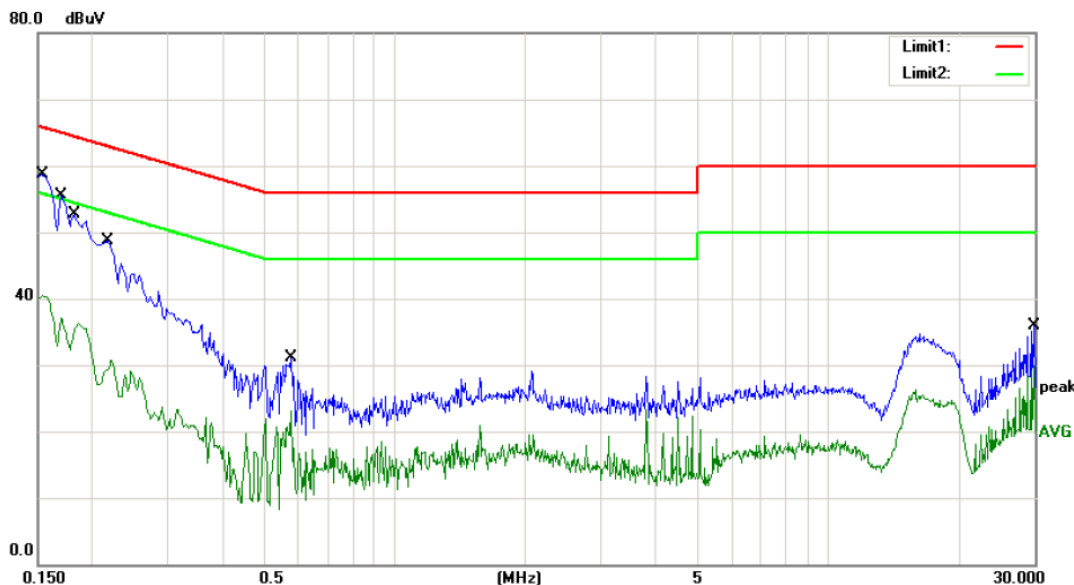
5.5 Measurement Result

Operation Mode:	TX	Test Date :	January 18, 2018
Frequency Range:	0.15MHz~30MHz	Temperature :	28°C
Test Result:	PASS	Humidity :	65 %
Test By:	Yaping Shen		

Pass

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

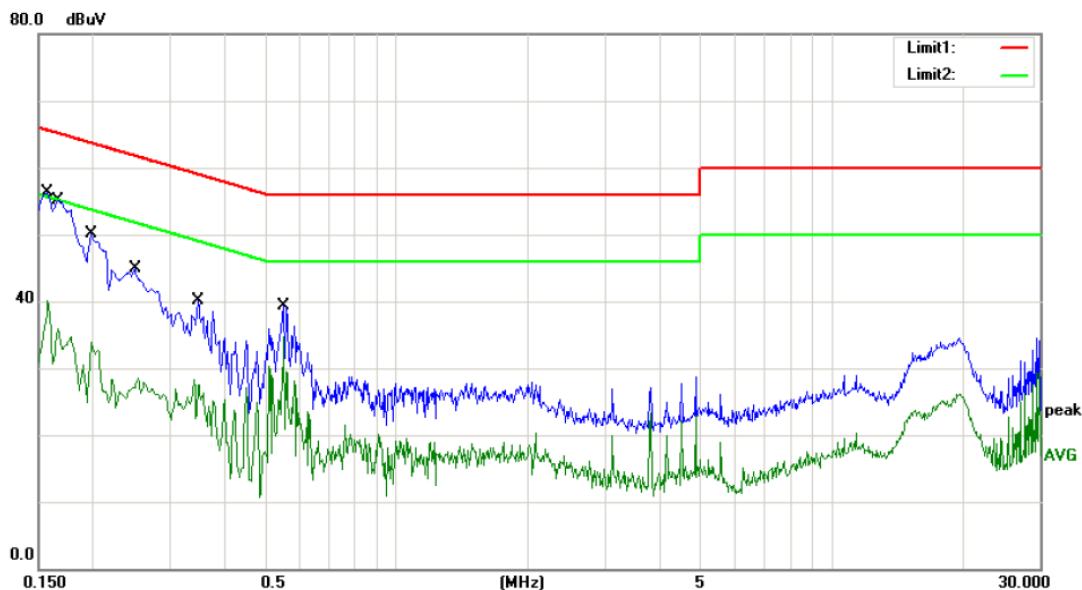
Adapter1: GQ24-090300-AU



Site site #1 Phase: **L1** Temperature: 25
 Limit: (CE)FCC PART 15 C_QP Power: AC 120V/60Hz Humidity: 55 %
 Mode: Wireless Charging
 Note:

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1 *	0.1540	45.82	9.78	55.60	65.78	-10.18	QP	
2	0.1540	30.49	9.78	40.27	55.78	-15.51	AVG	
3	0.1700	42.82	9.78	52.60	64.96	-12.36	QP	
4	0.1700	25.99	9.78	35.77	54.96	-19.19	AVG	
5	0.1820	40.41	9.79	50.20	64.39	-14.19	QP	
6	0.1820	24.40	9.79	34.19	54.39	-20.20	AVG	
7	0.2180	35.51	9.79	45.30	62.89	-17.59	QP	
8	0.2180	20.82	9.79	30.61	52.89	-22.28	AVG	
9	0.5780	18.16	9.84	28.00	56.00	-28.00	QP	
10	0.5780	13.21	9.84	23.05	46.00	-22.95	AVG	
11	29.8620	23.00	10.50	33.50	60.00	-26.50	QP	
12	29.8620	12.79	10.50	23.29	50.00	-26.71	AVG	

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

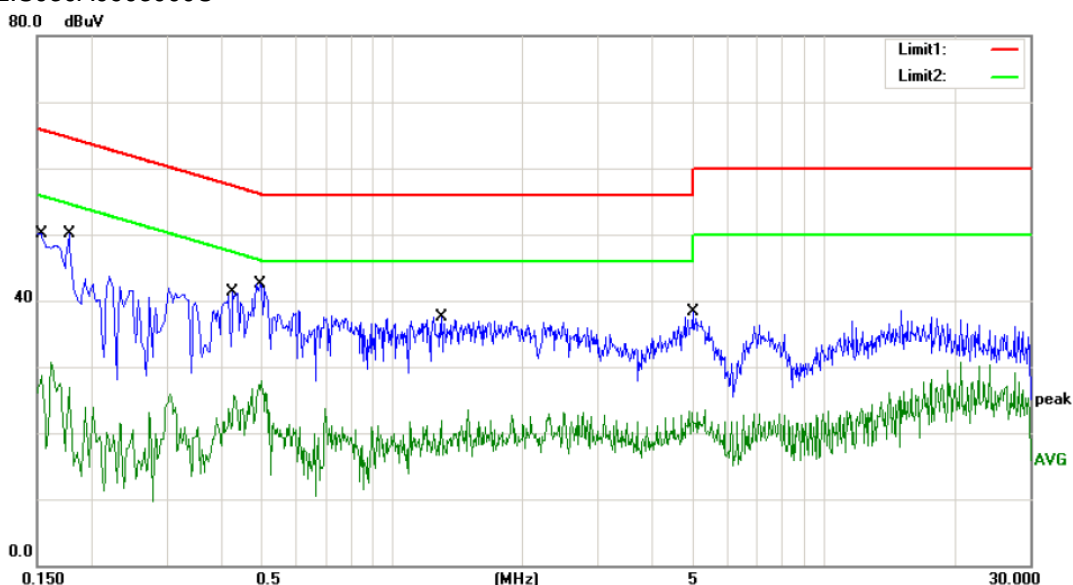


Site site #1 Phase: **N** Temperature: 25
 Limit: (CE)FCC PART 15 C_QP Power: AC 120V/60Hz Humidity: 55 %
 Mode: Wireless Charging
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1580	43.22	9.78	53.00	65.57	-12.57	QP	
2		0.1580	30.32	9.78	40.10	55.57	-15.47	AVG	
3		0.1660	42.82	9.78	52.60	65.16	-12.56	QP	
4		0.1660	24.23	9.78	34.01	55.16	-21.15	AVG	
5		0.1980	37.71	9.79	47.50	63.69	-16.19	QP	
6		0.1980	20.83	9.79	30.62	53.69	-23.07	AVG	
7		0.2500	32.50	9.80	42.30	61.76	-19.46	QP	
8		0.2500	17.28	9.80	27.08	51.76	-24.68	AVG	
9		0.3500	27.69	9.81	37.50	58.96	-21.46	QP	
10		0.3500	13.29	9.81	23.10	48.96	-25.86	AVG	
11		0.5500	26.26	9.84	36.10	56.00	-19.90	QP	
12	*	0.5500	24.91	9.84	34.75	46.00	-11.25	AVG	

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

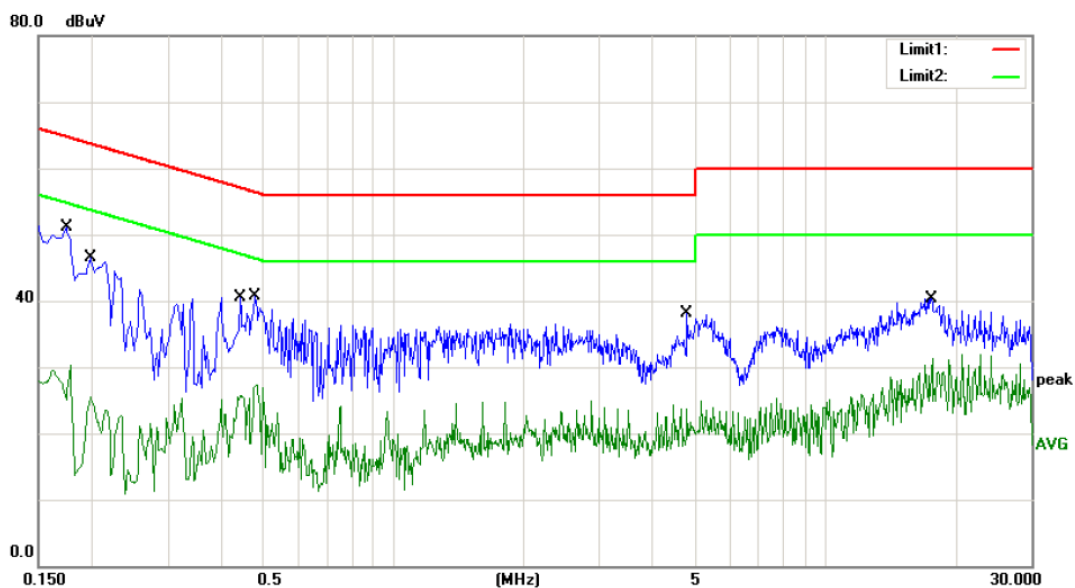
Adapter2:S030A0903000U



Site site #1 Phase: **L1** Temperature: 25
 Limit: (CE)FCC PART 15 C_QP Power: AC 120V/60Hz Humidity: 55 %
 Mode: Wireless Charging
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1540	37.02	9.78	46.80	65.78	-18.98	QP	
2		0.1540	18.86	9.78	28.64	55.78	-27.14	AVG	
3		0.1780	37.32	9.78	47.10	64.58	-17.48	QP	
4		0.1780	14.27	9.78	24.05	54.58	-30.53	AVG	
5		0.4260	28.67	9.83	38.50	57.33	-18.83	QP	
6		0.4260	15.88	9.83	25.71	47.33	-21.62	AVG	
7	*	0.4940	30.36	9.84	40.20	56.10	-15.90	QP	
8		0.4940	16.78	9.84	26.62	46.10	-19.48	AVG	
9		1.2980	24.96	9.84	34.80	56.00	-21.20	QP	
10		1.2980	9.86	9.84	19.70	46.00	-26.30	AVG	
11		4.9660	25.75	9.85	35.60	56.00	-20.40	QP	
12		4.9660	9.97	9.85	19.82	46.00	-26.18	AVG	

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



Site site #1 Phase: **N** Temperature: 25
 Limit: (CE)FCC PART 15 C_QP Power: AC 120V/60Hz Humidity: 55 %
 Mode: Wireless Charging
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1740	38.42	9.78	48.20	64.77	-16.57	QP	
2		0.1740	17.69	9.78	27.47	54.77	-27.30	AVG	
3		0.1980	33.81	9.79	43.60	63.69	-20.09	QP	
4		0.1980	15.51	9.79	25.30	53.69	-28.39	AVG	
5		0.4420	27.77	9.83	37.60	57.02	-19.42	QP	
6		0.4420	15.27	9.83	25.10	47.02	-21.92	AVG	
7		0.4780	27.76	9.84	37.60	56.37	-18.77	QP	
8		0.4780	16.77	9.84	26.61	46.37	-19.76	AVG	
9		4.7820	25.35	9.85	35.20	56.00	-20.80	QP	
10		4.7820	13.87	9.85	23.72	46.00	-22.28	AVG	
11		17.6180	27.12	10.18	37.30	60.00	-22.70	QP	
12		17.6180	14.70	10.18	24.88	50.00	-25.12	AVG	

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

5.6 Conducted Measurement Photo



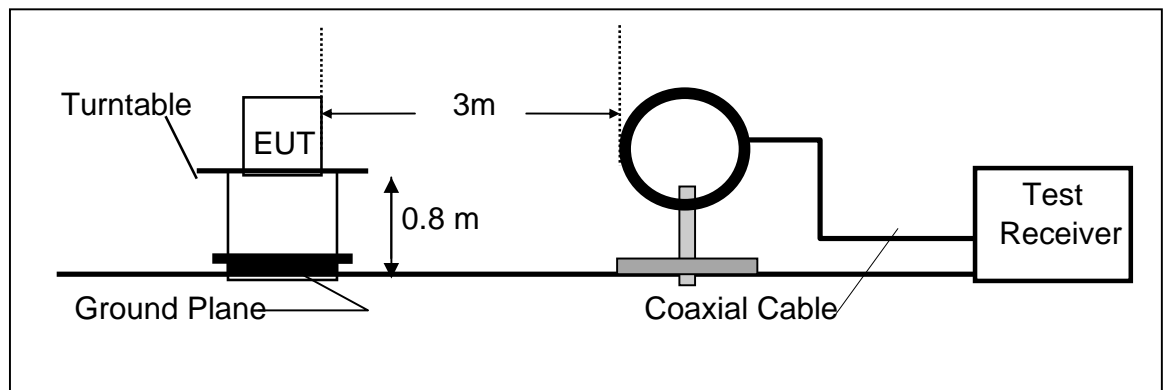
6 Radiated Emission Test

6.1 Measurement Procedure

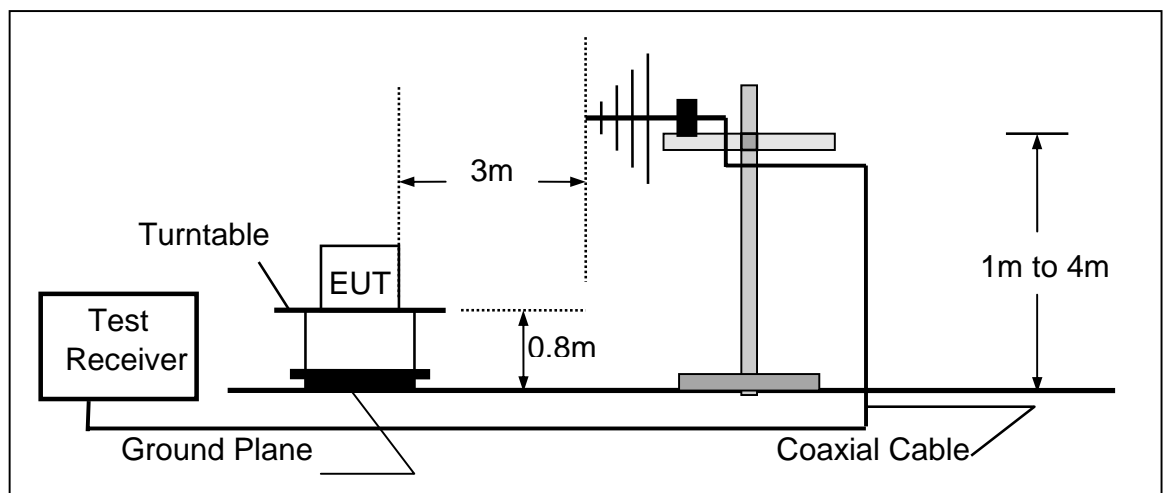
1. The EUT was placed on a turntable which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above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



6.3 Measurement Equipment Used

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due date
Test Receiver	Rohde & Schwarz	ESCI	1166.5950.03	05/16/2017	05/15/2018
Signal Analyzer	Rohde & Schwarz	FSV30	103040	05/16/2017	05/15/2018
Loop Antenna	Schwarzbeck	FMZB 1519	012	05/16/2017	05/15/2018
Bilog Antenna	Schwarzbeck	VULB9163	000141	05/16/2017	05/15/2018
Power Amplifier	CDS	RSU-M352	818	05/16/2017	05/15/2018
Power Amplifier	HP	8447F	OPT H64	05/16/2017	05/15/2018
Color Monitor	SUNSPO	SP-140A	N/A	05/16/2017	05/15/2018
Single Line Filter	JIANLI	XL-3	N/A	05/16/2017	05/15/2018
Single Phase Power Line Filter	JIANLI	DL-2X100B	N/A	05/16/2017	05/15/2018
3 Phase Power Line Filter	JIANLI	DL-4X100B	N/A	05/16/2017	05/15/2018
DC Power Filter	JIANLI	DL-2X50B	N/A	05/16/2017	05/15/2018
Cable	Schwarzbeck	PLF-100	549489	05/16/2017	05/15/2018
Cable	Rosenberger	CIL02	A0783566	05/16/2017	05/15/2018
Cable	Rosenberger	RG 233/U	525178	05/16/2017	05/15/2018

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				
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 § 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

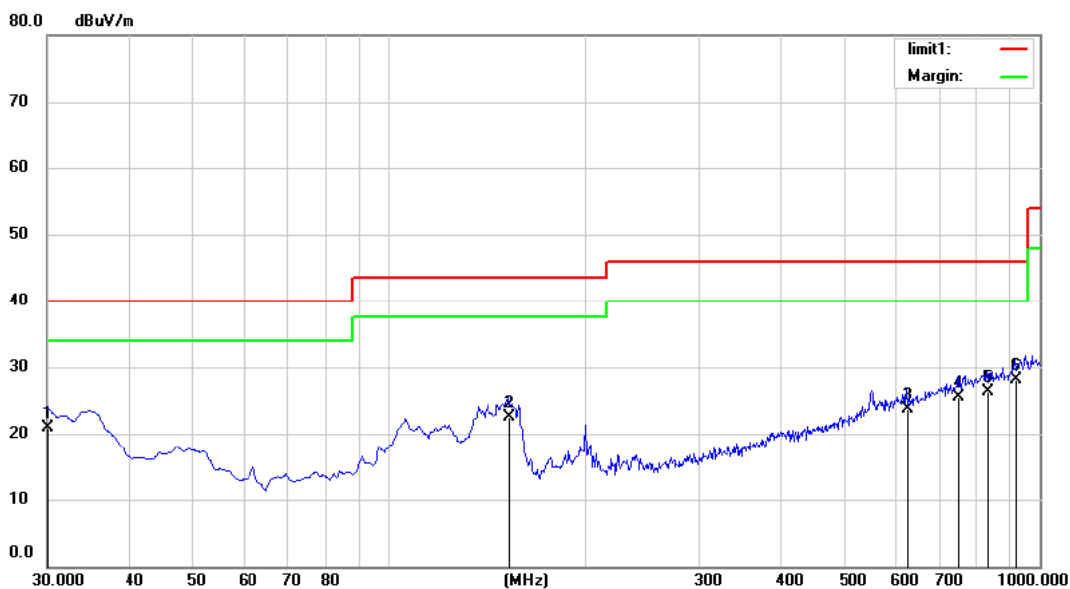
6.5 Measurement Result

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

Operation Mode:	Low frequency	Test Date :	January 18, 2018
Frequency Range:	9KHz~30MHz	Temperature :	20°C
Test Result:	PASS	Humidity :	55 %
Measured Distance:	3m	Test By:	Yaping Shen

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
0.12762(F)	H	76.15	105.49	-29.34	PK
0.255	H	69.28	99.47	-30.19	PK
0.383	H	68.24	95.94	-27.70	PK
0.510	H	68.95	93.45	-24.50	PK
0.638	H	65.28	91.50	-26.22	PK
0.12762(F)	V	76.84	105.49	-28.65	PK
0.255	V	68.24	99.47	-31.23	PK
0.383	V	67.28	95.94	-28.66	PK
0.510	V	65.98	93.45	-27.47	PK
0.638	V	64.22	91.50	-27.28	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.

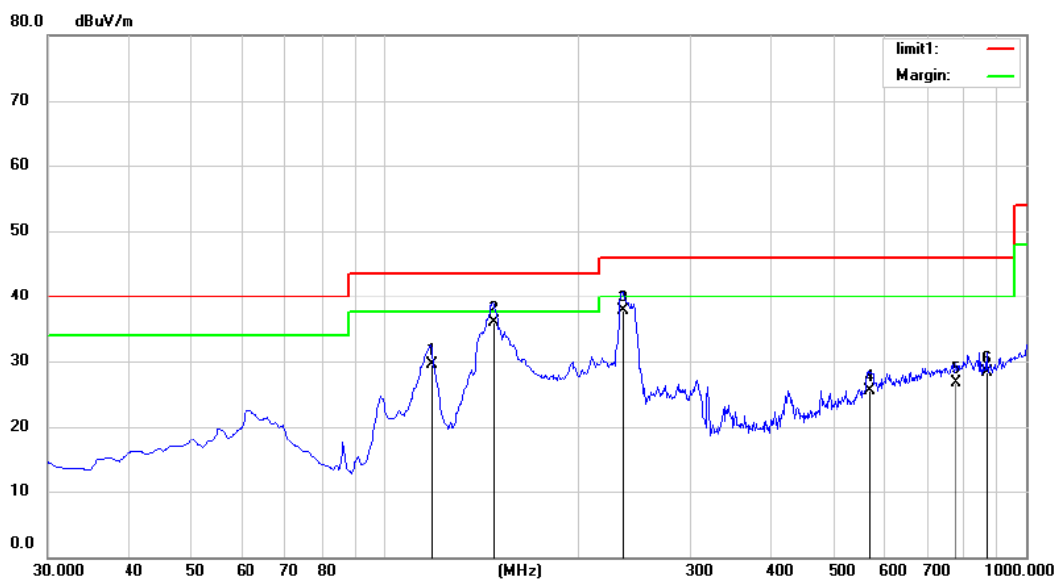


Site: Chamber #1 Polarization: **Vertical** Temperature: 25
 Limit: (RE)FCC PART 15 C 3m Power: AC 120V/60Hz Humidity: 55 %
 Mode: Wireless Charging
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		30.0000	39.70	-18.76	20.94	40.00	-19.06	QP			
2		153.2004	43.75	-21.18	22.57	43.50	-20.93	QP			
3		626.5500	30.80	-7.05	23.75	46.00	-22.25	QP			
4		748.7700	30.26	-4.77	25.49	46.00	-20.51	QP			
5		833.1600	30.37	-4.11	26.26	46.00	-19.74	QP			
6	*	917.5500	30.79	-2.63	28.16	46.00	-17.84	QP			

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

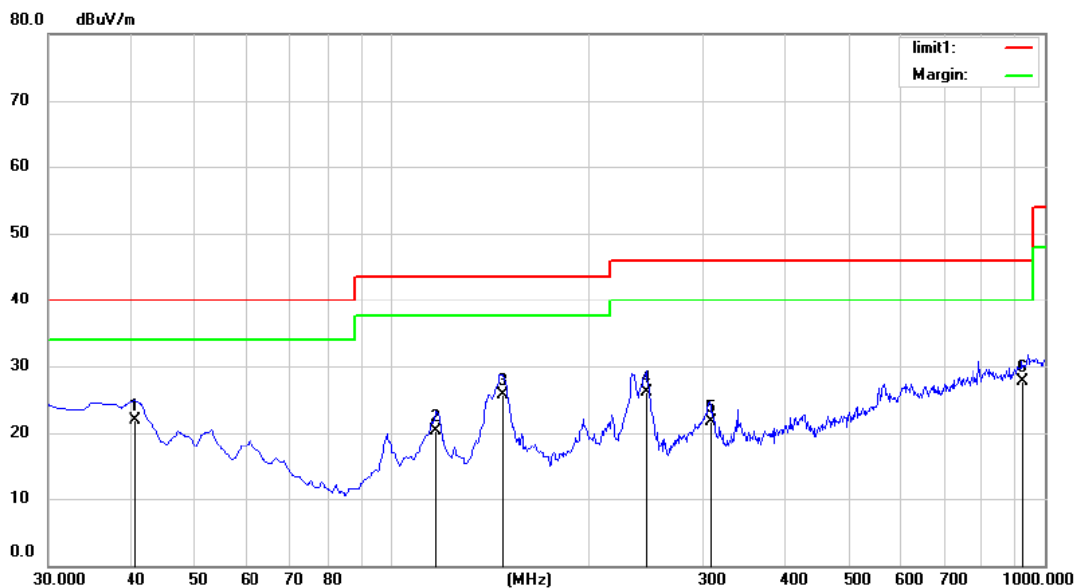
Adapter2:S030A0903000U



Site Chamber #1 Polarization: **Horizontal** Temperature: 25
 Limit: (RE)FCC PART 15 C 3m Power: AC 120V/60Hz Humidity: 55 %
 Mode: Wireless Charging
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		118.2700	49.16	-19.68	29.48	43.50	-14.02	QP		
2	*	148.3400	57.58	-21.60	35.98	43.50	-7.52	QP		
3		236.6447	53.60	-15.95	37.65	46.00	-8.35	QP		
4		570.2900	32.79	-7.23	25.56	46.00	-20.44	QP		
5		776.9000	30.26	-3.53	26.73	46.00	-19.27	QP		
6		871.9600	32.06	-3.73	28.33	46.00	-17.67	QP		

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

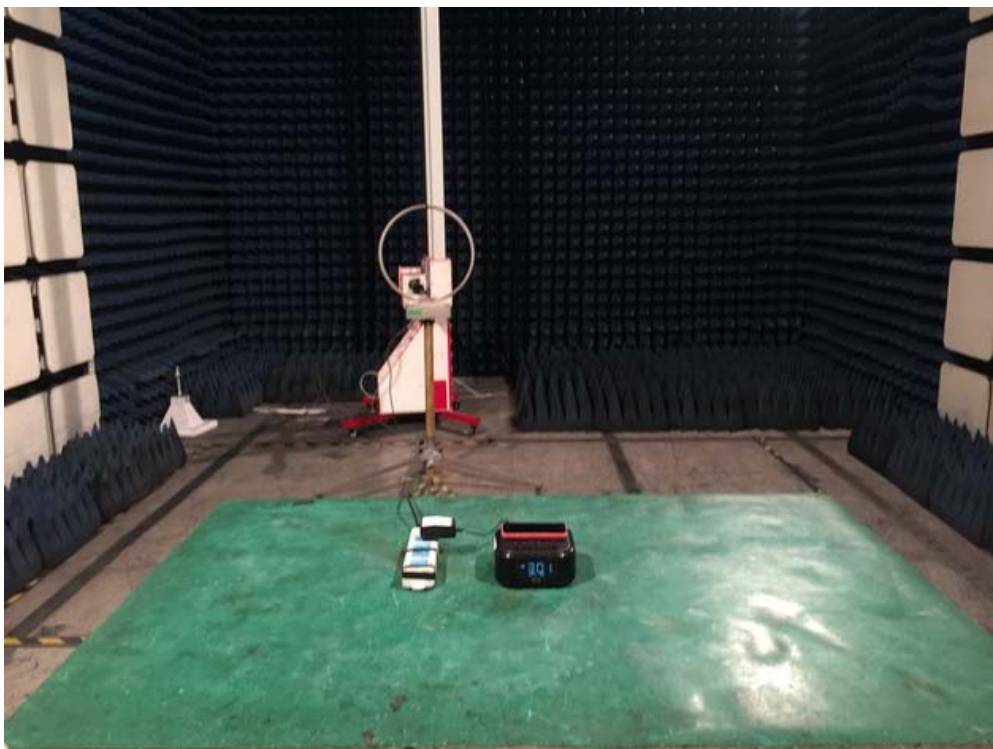
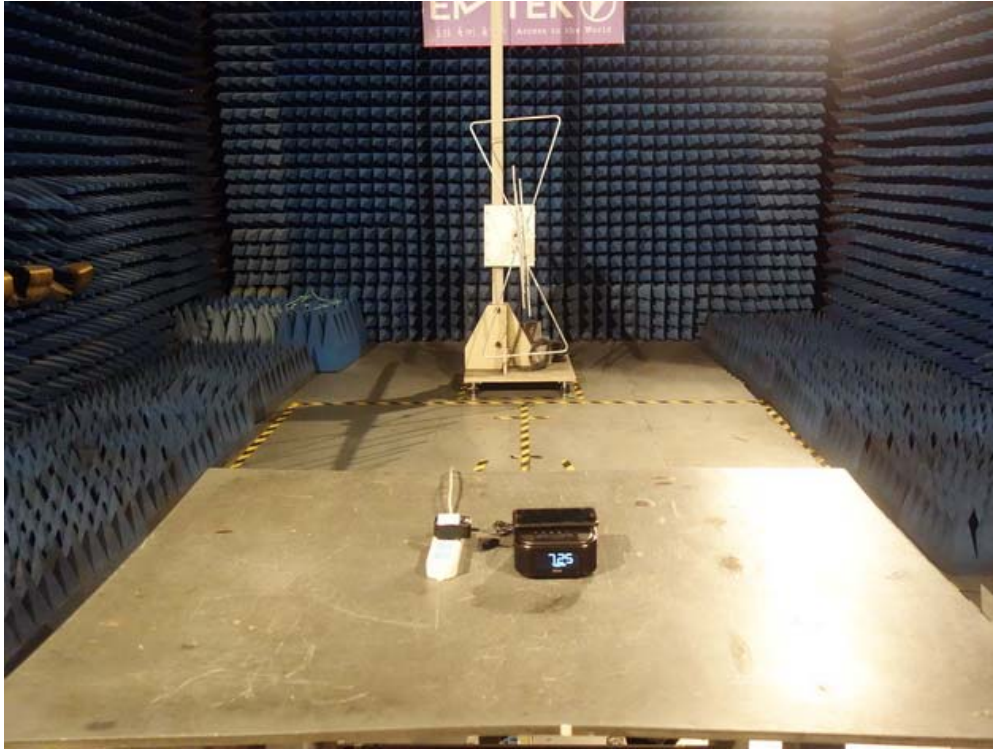


Site Chamber #1 Polarization: **Vertical** Temperature: 25
 Limit: (RE)FCC PART 15 C 3m Power: AC 120V/60Hz Humidity: 55 %
 Mode: Wireless Charging
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		40.7016	38.38	-16.56	21.82	40.00	-18.18	QP		
2		117.3000	38.89	-18.67	20.22	43.50	-23.28	QP		
3	*	148.3400	47.33	-21.60	25.73	43.50	-17.77	QP		
4		246.3100	42.55	-16.35	26.20	46.00	-19.80	QP		
5		307.4200	36.25	-14.51	21.74	46.00	-24.26	QP		
6		923.3700	30.18	-2.44	27.74	46.00	-18.26	QP		

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

6.6 Radiated Measurement Photos



7 20db Bandwidth

7.1 20dB Bandwidth Limit

None: for reporting purposed only.

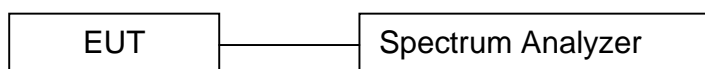
7.2 Test Instruments

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.

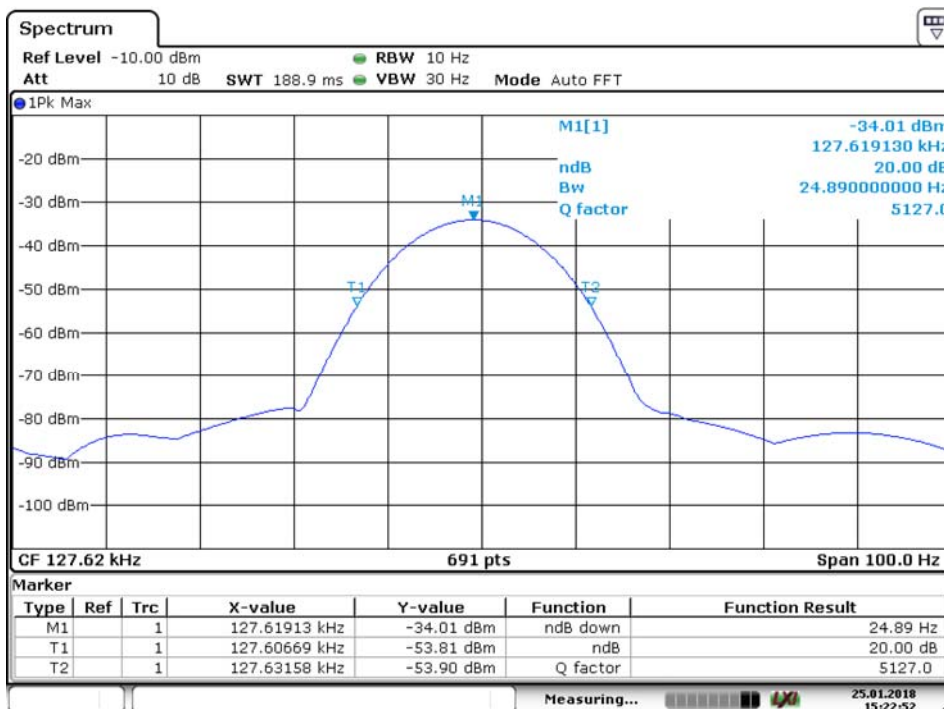
7.4 Test Setup



7.5 Test Result

Frequency (KHz)	20dB Bandwidth (Hz)	Results
127.62	24.89	PASS

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

Please refer to external photos and internal photos.