

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

OF

**NFC Bluetooth Stereo Dual Alarm Clock with Dual Wireless USB
Charging**

Model No.: iBN350, iBN350G, iBN350X (X denote as color of cabinet)

Trademark: iHome

FCC ID: EMOIBN350

Report No.: ED160802028E2

Issue Date: August 17, 2016

Prepared for

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

Prepared by

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EMTEK(DONGGUAN) 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, NJ07065, U.S.A.
Factory:	DONGGUAN FINEMOST ELECTRONICS CO.,LTD 46 Shangxing Road, Shangjiao, Chang-An Town, Dongguan City, Guangdong, P.R.China
Product Description:	NFC Bluetooth Stereo Dual Alarm Clock with Dual Wireless USB Charging
Trade Mark:	iHome
Model Number:	iBN350, iBN350G, iBN350X (X denote as color of cabinet) (Note: The samples are the same except difference color of appearance and model number. So iBN350 was selected for full test.)

We hereby certify that:

The above equipment was tested by EMTEK(Dongguan) 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 15.247(2016).

Date of Test : August 01, 2016 to August 14, 2016

Yolanda Liang

Prepared by : Yolanda Liang/Editor

Alan He

Reviewer : Alan He/Supervisor

Sam Lv

Approved & Authorized
Signer : Sam Lv/Manager

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1 General Information

1.1 Product Description

Characteristics	Description
Product Name	NFC Bluetooth Stereo Dual Alarm Clock with Dual Wireless USB Charging
Model number	iBN350
Power Supply	Adaptor 1: SW0903000-I04(manufactured by Dongguan Becky Electronics Tech Co., Ltd. Input AC100-240V~50/60Hz, 800mA Max, output DC9V---3A) Adaptor 2: GQ30-090300-AU(manufactured by Dongguan City Gangqi Electronic Co., Ltd. Input AC100-240V~50/60Hz, 1.0A Max, output DC9V---3A)
Operating Frequency	110-205 KHz
Modulation Technique	Induction
Antenna Type	Induction coil
Product Software Version	1.13
Product Hardware version	V01
Radio Software Version	V01
Radio Hardware version	V01

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: EMOIBN350 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.

: Registered on FCC, June 18, 2014
The Certificate Number is 247565.

Registered on Industry Canada, February 19, 2014
The Certificate Number is 9444A

Name of Firm
Site Location

: EMTEK(DONGGUAN) CO., LTD.
: No.281, Guantai Road, Nancheng District, Dongguan,
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 placed on a 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 placed on a 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 relative positions of this transmitter(EUT) was 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	Trademark	Model No.	FCC ID	Note
1.	NFC Bluetooth Stereo Dual Alarm Clock with Dual Wireless USB Charging	iHome	iBN350	EMOIBN350	EUT
2	Adapter	N/A	Adaptor 1: SW0903000-I04 Input AC100-240V~50/60Hz, 800mA Max, output DC9V---3A) Adaptor 2: GQ30-090300-AU GQ30-090300-AU Input AC100-240V~50/60Hz, 1.0A Max, output DC9V---3A)	N/A	Support Equipment
3	Electronic load	Finemost	HWL83 FOD TEST JJG	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 Description of test modes

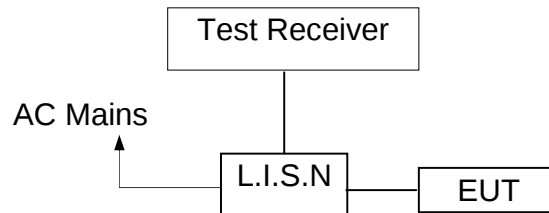
Channel	Frequency(KHz)
Low frequency	137
Mid frequency	147
High frequency	175

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	06/24/2016	06/23/2017
L.I.S.N	Rohde & Schwarz	ENV216	100017	06/24/2016	06/23/2017
RF Switching Unit	CDS	RSU-M2	38401	06/24/2016	06/23/2017
Coaxial Cable	CDS	79254	46107086	06/24/2016	06/23/2017

5.4 Conducted Emission Limit

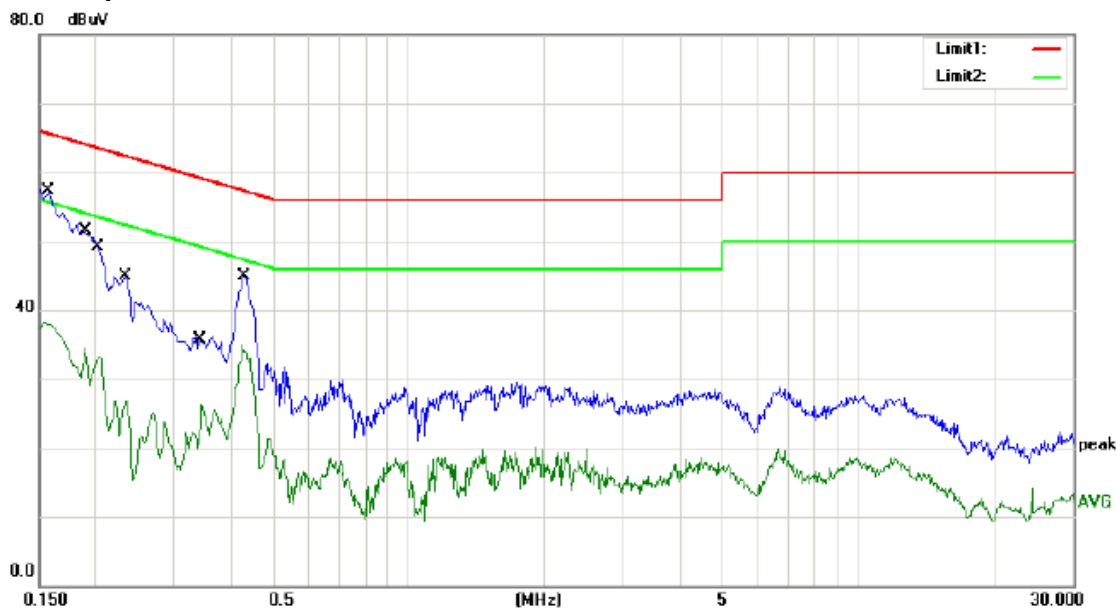
Conducted Emission Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

- 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

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

Adapter 1: Becky



Site site #1

Phase: **L1**

Temperature: 24

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 55 %

Mode: Charging

Note: SW0903000-I04

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1	*	0.1580	45.21	10.01	55.22	65.57	-10.35	QP	
2		0.1580	27.99	10.01	38.00	55.57	-17.57	AVG	
3		0.1904	39.21	10.02	49.23	64.02	-14.79	QP	
4		0.1904	23.98	10.02	34.00	54.02	-20.02	AVG	
5		0.2060	36.34	10.02	46.36	63.37	-17.01	QP	
6		0.2060	23.13	10.02	33.15	53.37	-20.22	AVG	
7		0.2340	32.77	10.03	42.80	62.31	-19.51	QP	
8		0.2340	16.70	10.03	26.73	52.31	-25.58	AVG	
9		0.3420	23.56	10.06	33.62	59.15	-25.53	QP	
10		0.3420	12.09	10.06	22.15	49.15	-27.00	AVG	
11		0.4300	32.80	10.08	42.88	57.25	-14.37	QP	
12		0.4300	24.80	10.08	34.88	47.25	-12.37	AVG	

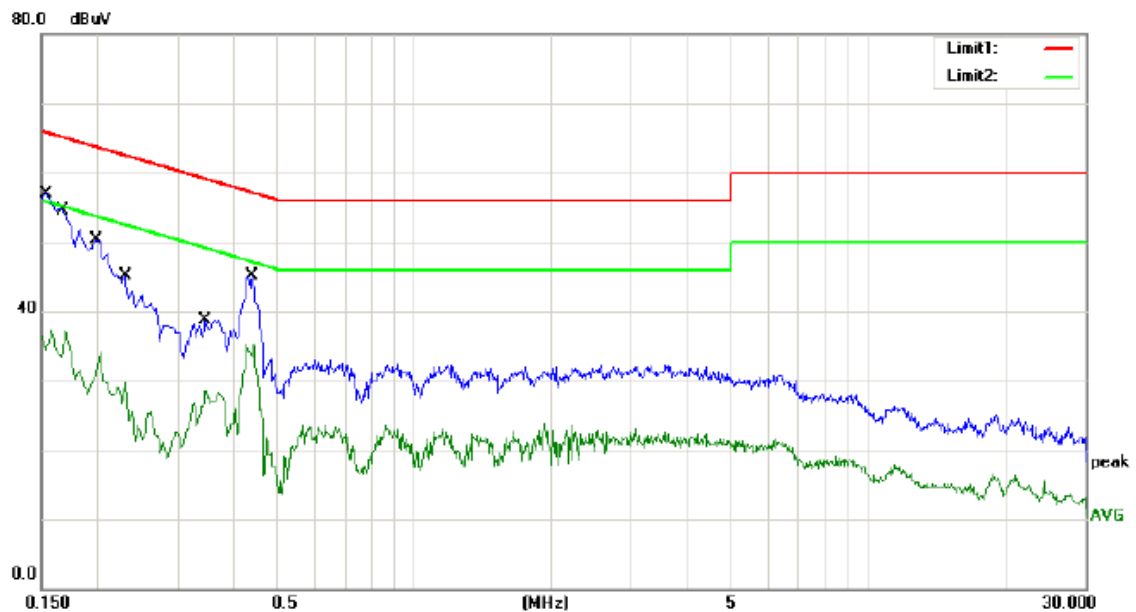
*:Maximum data

x:Over limit

!:over margin

Comment: Factor build in receiver.

Operator:



Site: site #1
 Limit: (CE)FCC PART 15 class B_QP
 Mode: Charging
 Note: SW0903000-I04

Phase: **N**
 Power: AC 120V/60Hz
 Temperature: 24
 Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1556	44.36	10.01	54.37	65.70	-11.33	QP	
2		0.1556	27.23	10.01	37.24	55.70	-18.46	AVG	
3		0.1685	42.16	10.01	52.17	65.03	-12.86	QP	
4		0.1685	27.17	10.01	37.18	55.03	-17.85	AVG	
5		0.1997	37.92	10.02	47.94	63.62	-15.68	QP	
6		0.1997	24.08	10.02	34.10	53.62	-19.52	AVG	
7		0.2300	31.96	10.03	41.99	62.45	-20.46	QP	
8		0.2300	19.76	10.03	29.79	52.45	-22.66	AVG	
9		0.3460	26.57	10.06	36.63	59.06	-22.43	QP	
10		0.3460	18.46	10.06	28.52	49.06	-20.54	AVG	
11		0.4380	32.95	10.08	43.03	57.10	-14.07	QP	
12		0.4380	25.12	10.08	35.20	47.10	-11.90	AVG	

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

Adapter 2:Gangqi



Site site #1

Phase: **L1**

Temperature: 24

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

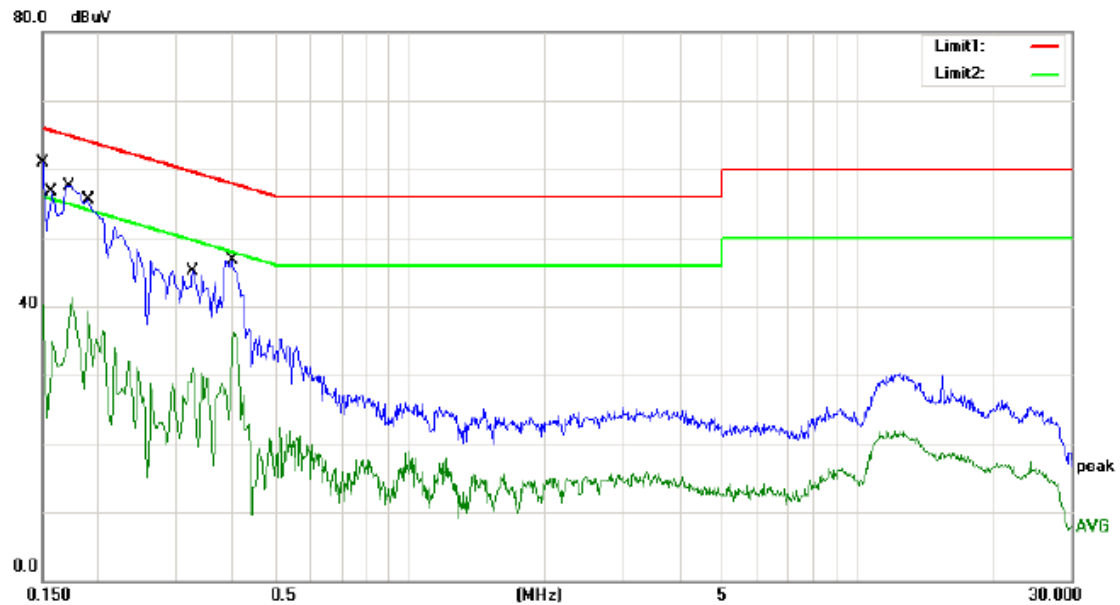
Humidity: 55 %

Mode: Charging

Note: GQ30-090300-AU

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1580	47.15	10.01	57.16	65.57	-8.41	QP	
2		0.1580	28.67	10.01	38.68	55.57	-16.89	AVG	
3		0.1740	44.75	10.02	54.77	64.77	-10.00	QP	
4		0.1740	30.23	10.02	40.25	54.77	-14.52	AVG	
5		0.1844	43.64	10.02	53.66	64.29	-10.63	QP	
6		0.1844	26.19	10.02	36.21	54.29	-18.08	AVG	
7		0.2020	40.85	10.02	50.87	63.53	-12.66	QP	
8		0.2020	26.46	10.02	36.48	53.53	-17.05	AVG	
9		0.3140	34.36	10.05	44.41	59.86	-15.45	QP	
10		0.3140	22.15	10.05	32.20	49.86	-17.66	AVG	
11		0.4060	35.98	10.08	46.06	57.73	-11.67	QP	
12		0.4060	28.58	10.08	38.66	47.73	-9.07	AVG	

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



Site site #1

Phase: **N**

Temperature: 24

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 55

Mode: Charging

Note: GQ30-090300-AU

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1500	48.68	10.01	58.69	66.00	-7.31	QP	
2		0.1500	30.04	10.01	40.05	56.00	-15.95	AVG	
3		0.1580	44.71	10.01	54.72	65.57	-10.85	QP	
4		0.1580	24.92	10.01	34.93	55.57	-20.64	AVG	
5		0.1740	45.24	10.02	55.26	64.77	-9.51	QP	
6		0.1740	31.20	10.02	41.22	54.77	-13.55	AVG	
7		0.1900	43.67	10.02	53.69	64.04	-10.35	QP	
8		0.1900	29.32	10.02	39.34	54.04	-14.70	AVG	
9		0.3260	32.99	10.06	43.05	59.55	-16.50	QP	
10		0.3260	20.94	10.06	31.00	49.55	-18.55	AVG	
11		0.3980	34.64	10.07	44.71	57.90	-13.19	QP	
12		0.3980	26.30	10.07	36.37	47.90	-11.53	AVG	

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

5.6 Conducted Measurement Photo



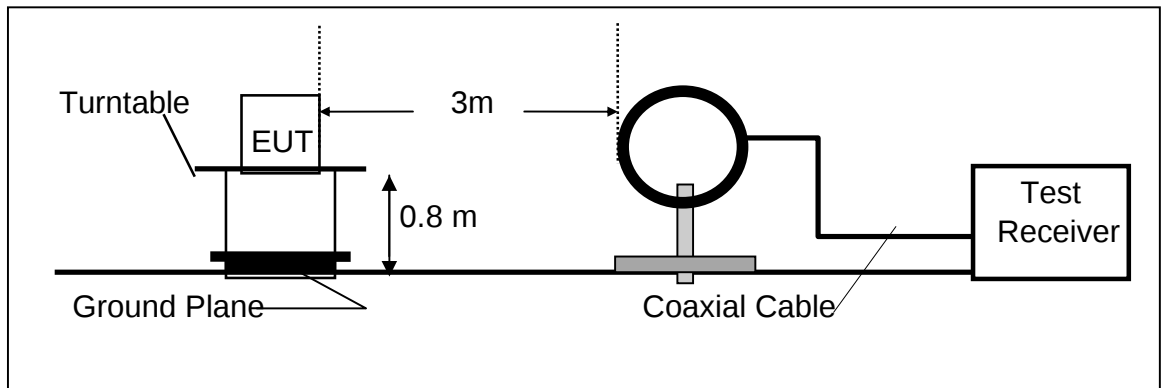
6 Radiated Emission Test

6.1 Measurement Procedure

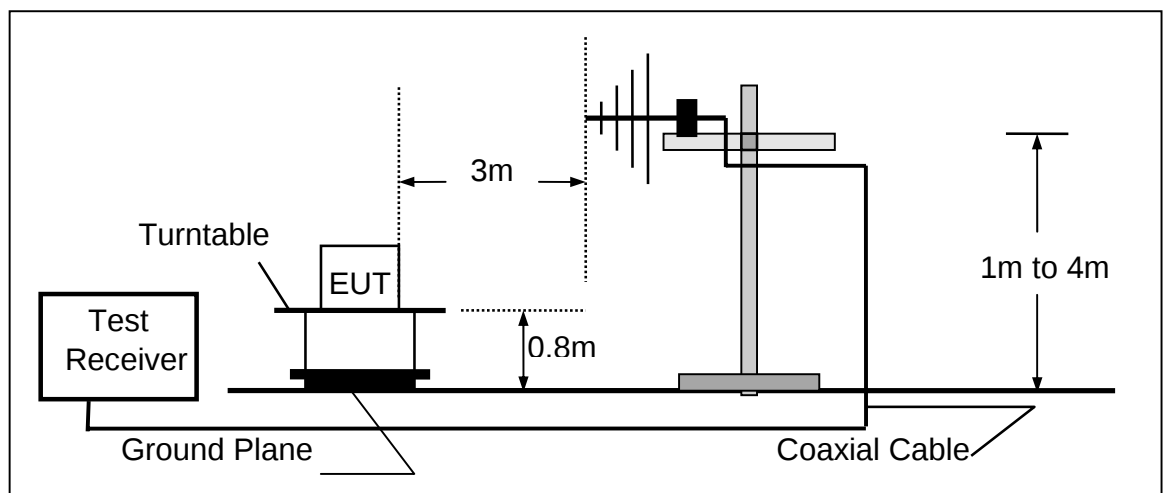
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above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



6.3 Measurement Equipment Used

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due date
Test Receiver	Rohde & Schwarz	ESCI	1166.5950.03	06/24/2016	06/23/2017
Signal Analyzer	Rohde & Schwarz	FSV30	103040	06/24/2016	06/23/2017
Loop Antenna	Schwarzbeck	FMZB 1519	012	06/24/2016	06/23/2017
Bilog Antenna	Schwarzbeck	VULB9163	000141	06/24/2016	06/23/2017
Power Amplifier	CDS	RSU-M352	818	06/24/2016	06/23/2017
Power Amplifier	HP	8447F	OPT H64	06/24/2016	06/23/2017
Color Monitor	SUNSPO	SP-140A	N/A	06/24/2016	06/23/2017
Single Line Filter	JIANLI	XL-3	N/A	06/24/2016	06/23/2017
Single Phase Power Line Filter	JIANLI	DL-2X100B	N/A	06/24/2016	06/23/2017
3 Phase Power Line Filter	JIANLI	DL-4X100B	N/A	06/24/2016	06/23/2017
DC Power Filter	JIANLI	DL-2X50B	N/A	06/24/2016	06/23/2017
Cable	Schwarzbeck	PLF-100	549489	06/24/2016	06/23/2017
Cable	Rosenberger	CIL02	A0783566	06/24/2016	06/23/2017
Cable	Rosenberger	RG 233/U	525178	06/24/2016	06/23/2017

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 (Low frequency, Mid frequency, High frequency), two adapters (Becky, GANGQI) for EUT. The worst mode (Becky adapter) test data see follow the table.

Please refer to the following data.

Adapter 1: Becky

Operation Mode:	Low frequency	Test Date :	August 01, 2016
Frequency Range:	9KHz~30MHz	Temperature :	20℃
Test Result:	PASS	Humidity :	55 %
Measured Distance:	3m	Test By:	KYO

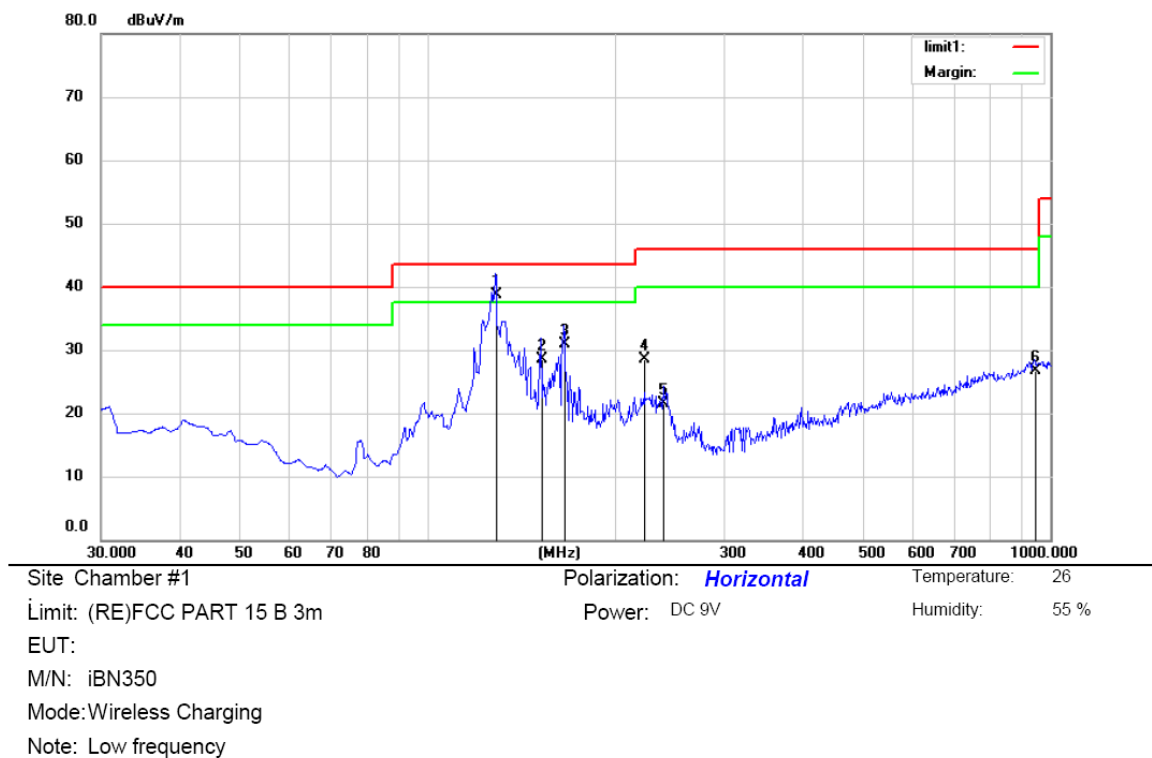
Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
0.137(F)	H	73.36	104.86	-31.50	PK
0.412	H	49.68	95.30	-45.62	PK
0.688	H	46.44	70.85	-24.41	PK
2.064	H	43.96	69.54	-25.58	PK
2.339	H	44.67	69.54	-24.87	PK
0.137(F)	V	76.08	104.86	-28.78	PK
0.412	V	46.29	95.30	-49.01	PK
0.688	V	43.15	70.85	-27.70	PK
0.963	V	40.53	67.93	-27.40	PK
1.238	V	41.87	65.75	-23.88	PK

Operation Mode:	Mid frequency	Test Date :	August 01, 2016
Frequency Range:	9KHz~30MHz	Temperature :	20℃
Test Result:	PASS	Humidity :	55 %
Measured Distance:	3m	Test By:	KYO

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
0.147(F)	H	78.96	104.25	-25.29	PK
0.443	H	48.23	94.67	-46.44	PK
0.737	H	47.91	70.25	-22.34	PK
1.031	H	48.62	67.34	-18.72	PK
3.095	H	45.75	69.54	-23.79	PK
0.147(F)	V	79.68	104.25	-24.57	PK
0.443	V	48.62	94.67	-46.05	PK
1.329	V	47.26	65.13	-17.87	PK
1.916	V	45.63	69.54	-23.91	PK
3.685	V	44.58	69.54	-24.96	PK

Operation Mode: High frequency Test Date : August 01, 2016
Frequency Range: 9KHz~30MHz Temperature : 20℃
Test Result: PASS Humidity : 55 %
Measured Distance: 3m Test By: KYO

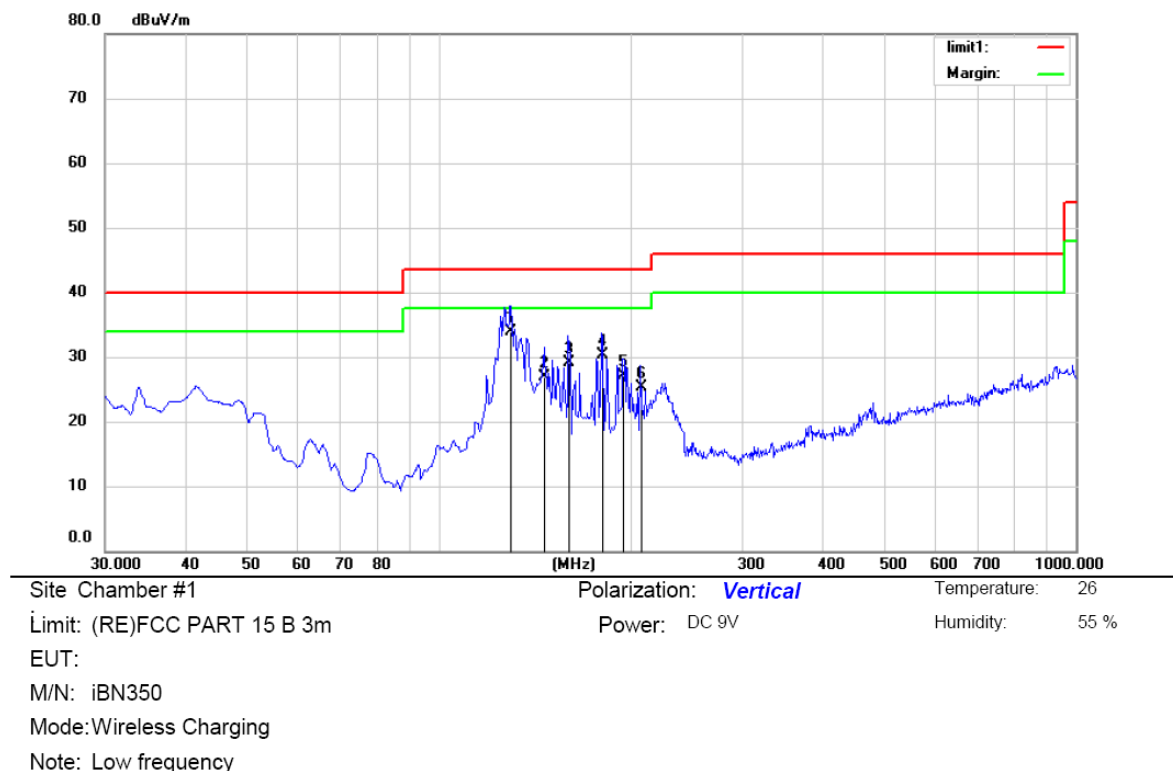
Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
0.175(F)	H	76.48	102.74	-26.26	PK
0.528	H	58.65	73.15	-14.50	PK
0.879	H	52.63	68.72	-16.09	PK
1.231	H	49.65	65.80	-16.15	PK
1.935	H	48.52	69.54	-21.02	PK
0.175(F)	H	74.69	102.74	-28.05	PK
0.528	V	52.68	73.15	-20.47	PK
0.879	V	48.65	68.72	-20.07	PK
1.231	V	45.28	65.80	-20.52	PK
1.583	V	47.68	63.61	-15.93	PK



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	128.9400	56.15	-17.51	38.64	43.50	-4.86	QP		
2		152.2200	47.23	-18.79	28.44	43.50	-15.06	QP		
3		165.8000	50.30	-19.45	30.85	43.50	-12.65	QP		
4		223.0300	45.69	-17.23	28.46	46.00	-17.54	QP		
5		239.5200	38.30	-16.75	21.55	46.00	-24.45	QP		
6		943.7400	28.99	-2.23	26.76	46.00	-19.24	QP		

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

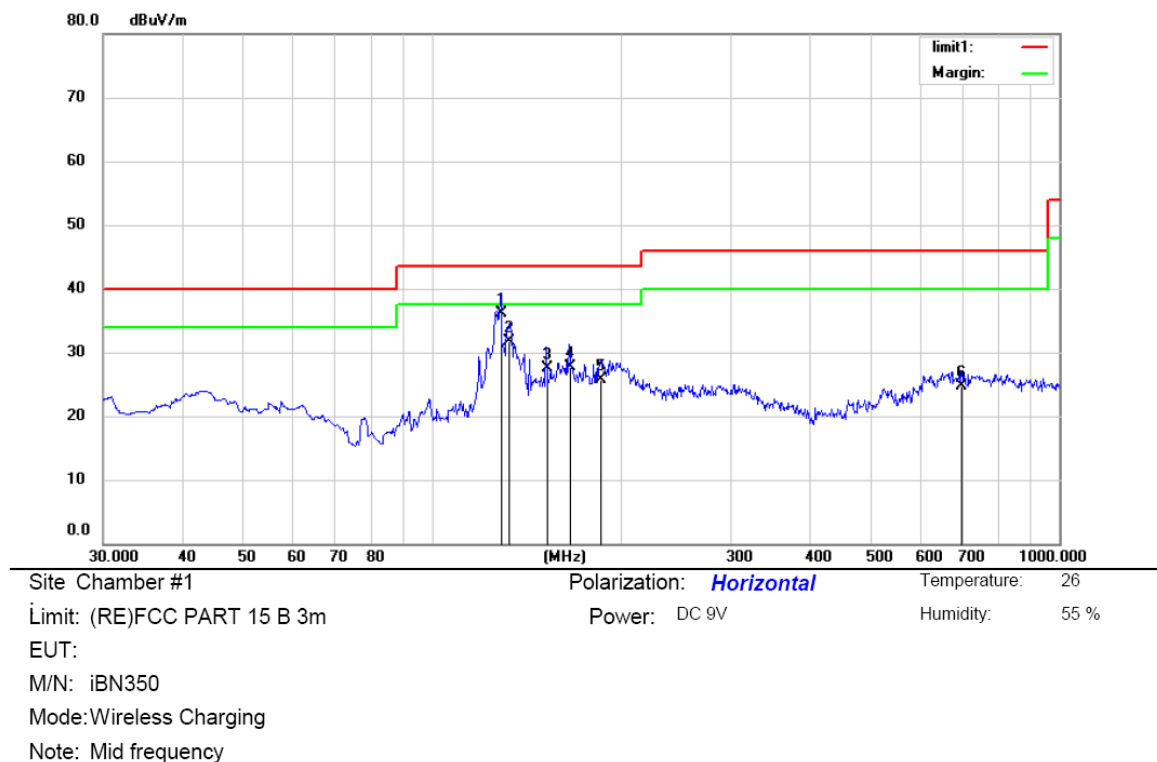
Operator: washington



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 degree	Comment
1	*	129.9100	51.46	-17.50	33.96	43.50	-9.54	QP			
2		146.4000	45.35	-18.48	26.87	43.50	-16.63	QP			
3		159.9800	48.60	-19.48	29.12	43.50	-14.38	QP			
4		180.3500	50.10	-19.85	30.25	43.50	-13.25	QP			
5		194.9000	45.96	-18.92	27.04	43.50	-16.46	QP			
6		207.5100	43.65	-18.25	25.40	43.50	-18.10	QP			

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

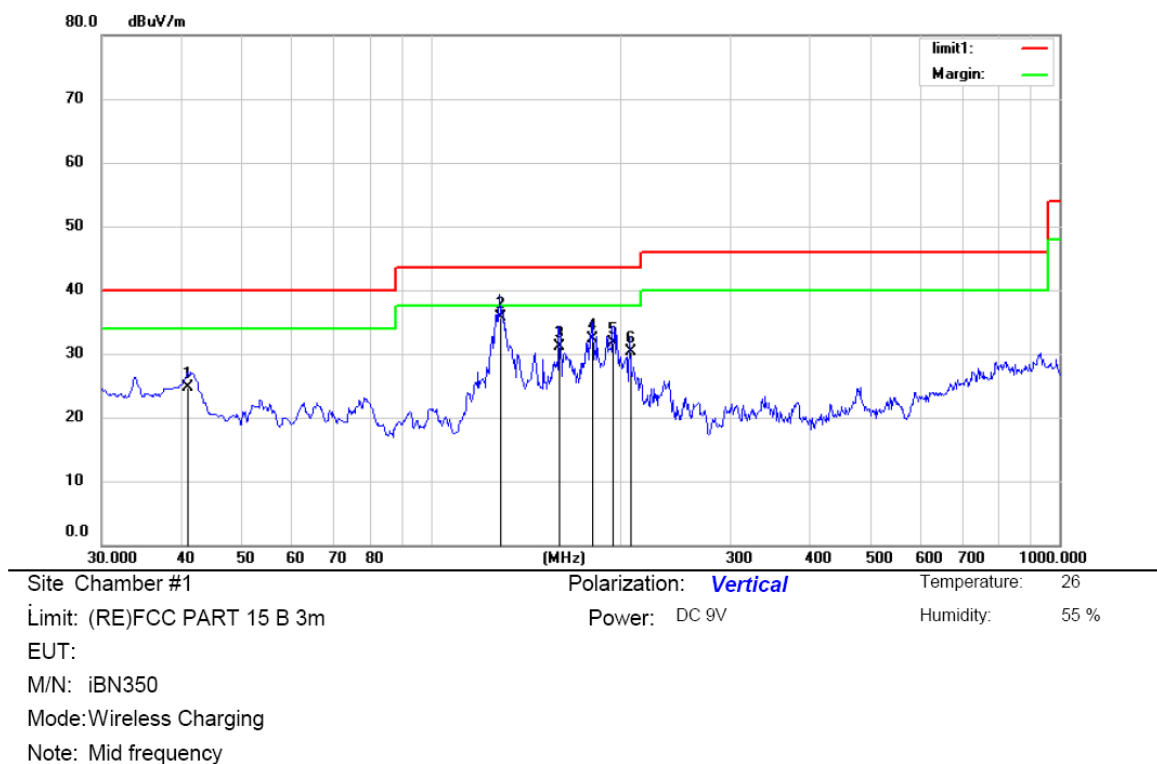
Operator: washington



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	128.9400	53.65	-17.51	36.14	43.50	-7.36	QP		
2		132.8200	49.20	-17.58	31.62	43.50	-11.88	QP		
3		152.2200	46.30	-18.79	27.51	43.50	-15.99	QP		
4		165.8000	47.20	-19.45	27.75	43.50	-15.75	QP		
5		186.4405	45.10	-19.47	25.63	43.50	-17.87	QP		
6		698.3300	31.35	-6.71	24.64	46.00	-21.36	QP		

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

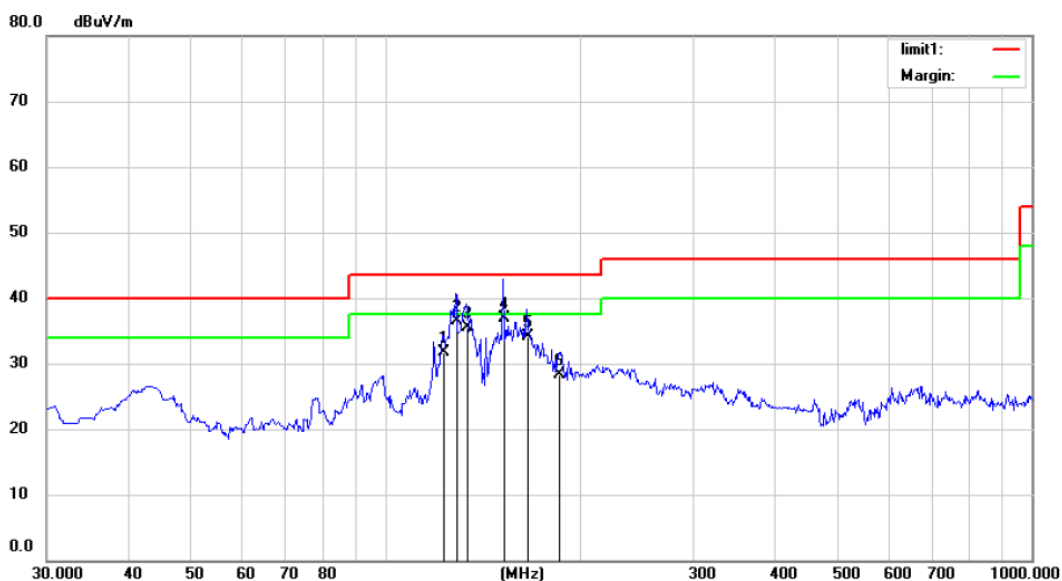
Operator: washington



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		41.1320	37.98	-13.20	24.78	40.00	-15.22	QP		
2	*	128.9400	53.26	-17.51	35.75	43.50	-7.75	QP		
3		159.9800	50.59	-19.48	31.11	43.50	-12.39	QP		
4		180.3500	52.15	-19.85	32.30	43.50	-11.20	QP		
5		194.9000	50.56	-18.92	31.64	43.50	-11.86	QP		
6		207.5100	48.65	-18.25	30.40	43.50	-13.10	QP		

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

Operator: washington



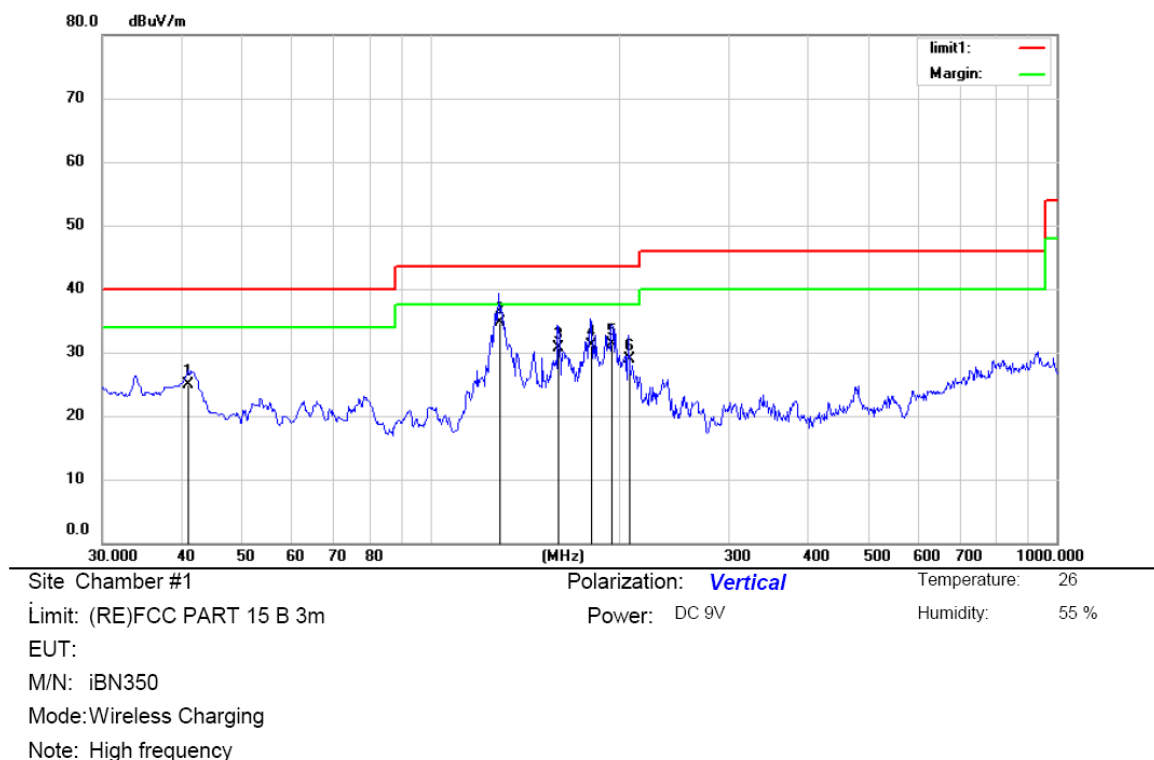
Site: Chamber #1
 Limit: (RE)FCC PART 15 B 3m
 EUT:
 M/N: iBN350
 Mode: Wireless Charging
 Note: High frequency

Polarization: **Horizontal**
 Power: DC 9V
 Temperature: 26
 Humidity: 55 %

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		123.2651	49.35	-17.72	31.63	43.50	-11.87	QP		
2		128.9400	54.05	-17.51	36.54	43.50	-6.96	QP		
3		133.7900	53.05	-17.61	35.44	43.50	-8.06	QP		
4	*	152.2200	55.69	-18.79	36.90	43.50	-6.60	QP		
5		165.8000	53.65	-19.45	34.20	43.50	-9.30	QP		
6		186.4404	47.80	-19.47	28.33	43.50	-15.17	QP		

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

Operator: washington

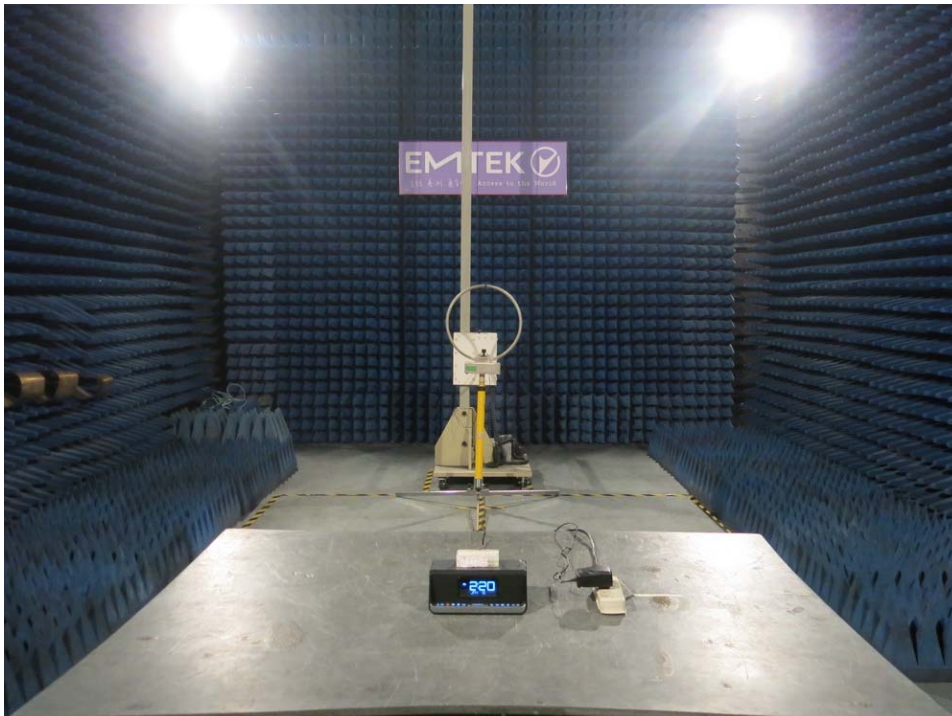
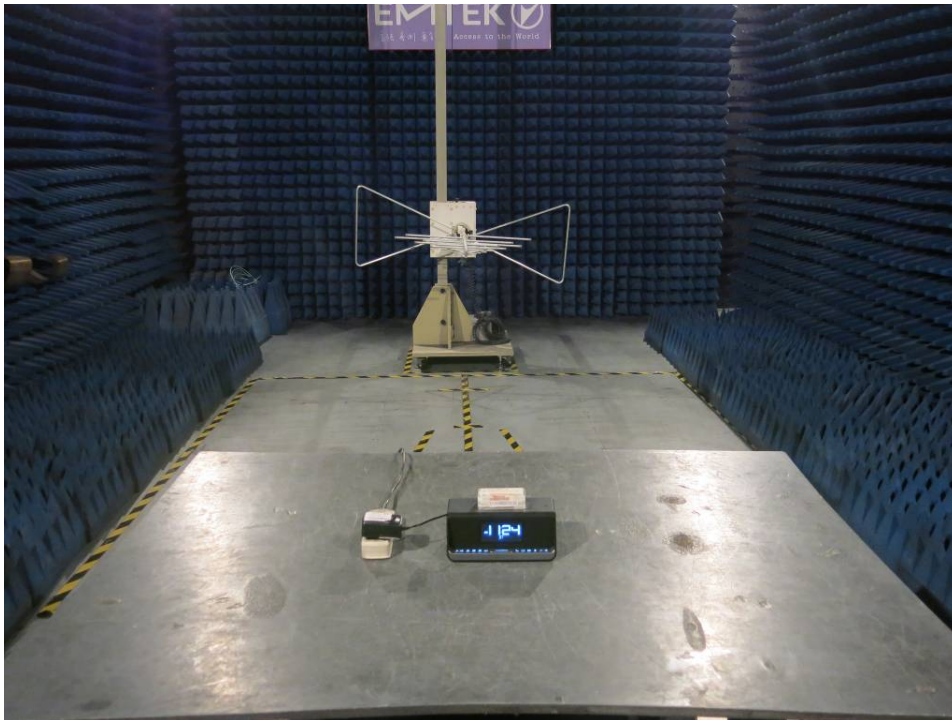


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		41.1320	38.12	-13.20	24.92	40.00	-15.08	QP		
2	*	128.9400	52.26	-17.51	34.75	43.50	-8.75	QP		
3		159.9800	50.20	-19.48	30.72	43.50	-12.78	QP		
4		180.3500	51.03	-19.85	31.18	43.50	-12.32	QP		
5		194.9000	50.30	-18.92	31.38	43.50	-12.12	QP		
6		207.5100	47.23	-18.25	28.98	43.50	-14.52	QP		

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

Operator: washington

6.6 Radiated Measurement Photos



7 20db Bandwidth

7.1 20dB Bandwidth Limit

None: for reporting purposed only.

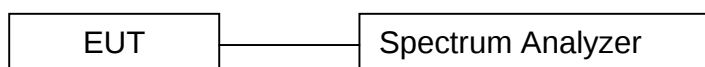
7.2 Test Instruments

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 30Hz RBW and 30Hz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

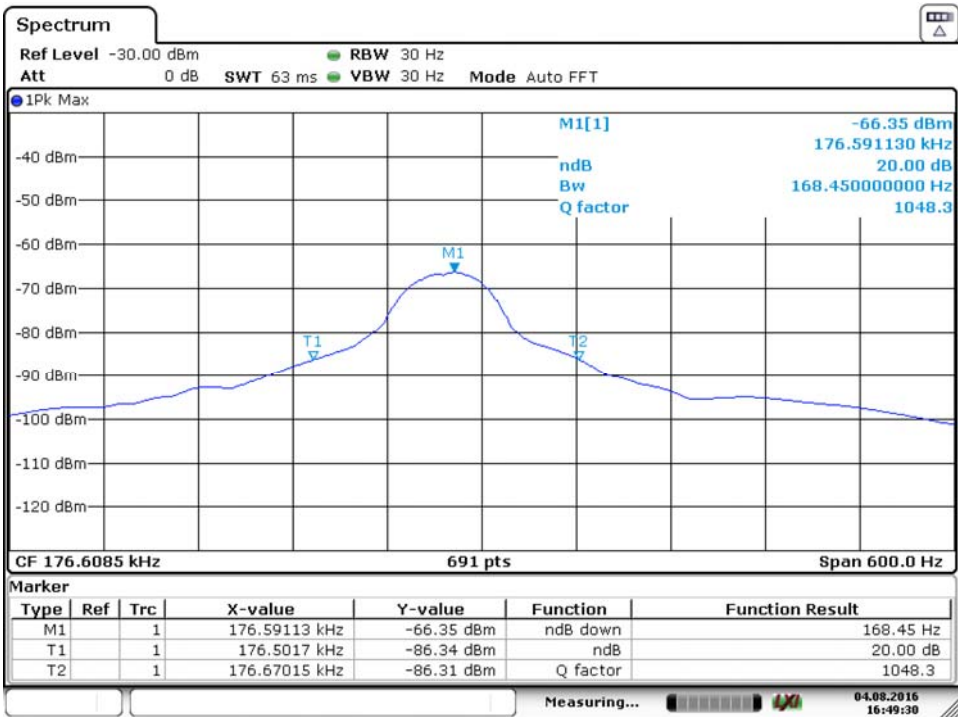
7.4 Test Setup



7.5 Test Result

Frequency (KHz)	20dB Bandwidth (Hz)	Results
176.609	168.450	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.

APPENDIX I (Photos of EUT)







