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Report No.: CQASZ161001340E-01
Report Version: V01

MEASUREMENT REPORT

Test Report

Applicant: Smart Power Technology Co., Ltd.

Address of Applicant: Area 201#, Entrepreneurial Dream Block, Greenland Rose city, No#129 of North RD of Ai xi hu, High Tech Industrial Development Zone, Nanchang, Jiangxi Province, China

Manufacturer: Smart Power Technology Co., Ltd.

Address of Manufacturer: Area 201#, Entrepreneurial Dream Block, Greenland Rose city, No#129 of North RD of Ai xi hu, High Tech Industrial Development Zone, Nanchang, Jiangxi Province, China

Equipment Under Test (EUT):

Product: Smart Home Hub

Model No.: ZNWXZNWG

Brand Name: N/A

FCC ID: 2AKIO-ZNWG

Standards: 47 CFR Part 15, Subpart C

Date of Test: 2016-11-01 to 2016-11-28

Date of Issue: 2016-11-28

Test Result : **PASS***

Reviewed By: _____



Approved By: _____

* In the configuration tested, the EUT complied with the standards specified above.

2 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ161001340E-01	Rev.01	Initial report	2016-11-28

3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 (2013)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 (2013)	PASS
Field Strength of the Fundamental Signal	47 CFR Part 15, Subpart C Section 15.249 (a)	ANSI C63.10 (2013)	PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section 15.249 (a)/15.209	ANSI C63.10 (2013)	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.249(a)/15.205	ANSI C63.10 (2013)	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.215 (c)	ANSI C63.10 (2013)	PASS

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5 General Information

5.1 Client Information

Applicant:	Smart Power Technology Co., Ltd.
Address of Applicant:	Area 201#, Entrepreneurial Dream Block, Greenland Rose city, No#129 of North RD of Ai xi hu, High Tech Industrial Development Zone, Nanchang, Jiangxi Province, China
Manufacturer:	Smart Power Technology Co., Ltd.
Address of Manufacturer:	Area 201#, Entrepreneurial Dream Block, Greenland Rose city, No#129 of North RD of Ai xi hu, High Tech Industrial Development Zone, Nanchang, Jiangxi Province, China

5.2 General Description of EUT

Name:	Smart Home Hub	
Model No.:	ZNWXZNWG	
Trade Mark :	N/A	
Hardware Version:	V1.3	
Software Version:	V0.50	
Frequency Range:	2405 MHz ~ 2480MHz	
Modulation Type:	ZigBee, IEEE 802.15.4: OQPSK	
Number of Channels:	16 (declared by the client)	
Sample Type:	Portable production	
Test Software of EUT:	RF test (manufacturer declare)	
Antenna Type:	Integral antenna	
Antenna Gain:	3.3dBi	
Power Supply:	AC/DC Adapter	Model: HCSD-288D50100 Input: 100V-240V~50/60Hz 0.2A

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2405MHz	4	2425MHz	8	2445MHz	12	2465MHz
1	2410MHz	5	2430MHz	9	2450MHz	13	2470MHz
2	2415MHz	6	2435MHz	10	2455MHz	14	2475MHz
3	2420MHz	7	2440MHz	11	2460MHz	15	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH0)	2405MHz
The Middle channel(CH07)	2440MHz
The Highest channel(CH15)	2480MHz

5.3 Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1008 mbar
Test Mode:	Use test software (RF test) to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
Adapter	HCSD	HCSD-288D50100	Provide by client	DOC
Notebook	Lenovo	Lenovo ideapad 100-14IBY	Provide by lab	DOC

5.5 Test Location

All tests were performed at:

Shenzhen Tongce Testing Lab,

1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

5.6 Statement of the 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 acc. 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 **Shenzhen Tongce Testing Lab** quality system acc. 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 **TCT** laboratory is reported:

Test	Range	Uncertainty	Notes
Radiated Emission	Below 1GHz	±3.92dB	(1)
Radiated Emission	Above 1GHz	±4.28dB	(1)
Conducted Disturbance	0.15~30MHz	±2.56dB	(1)

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5.7 Test Facility

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

FCC – Registration No.: 572331

Shenzhen Tongce Testing Lab 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. Registration 572331

5.8 Deviation from Standards

None.

5.9 Abnormalities from Standard Conditions

None.

5.10 Other Information Requested by the Customer

None.

5.11 Equipment List

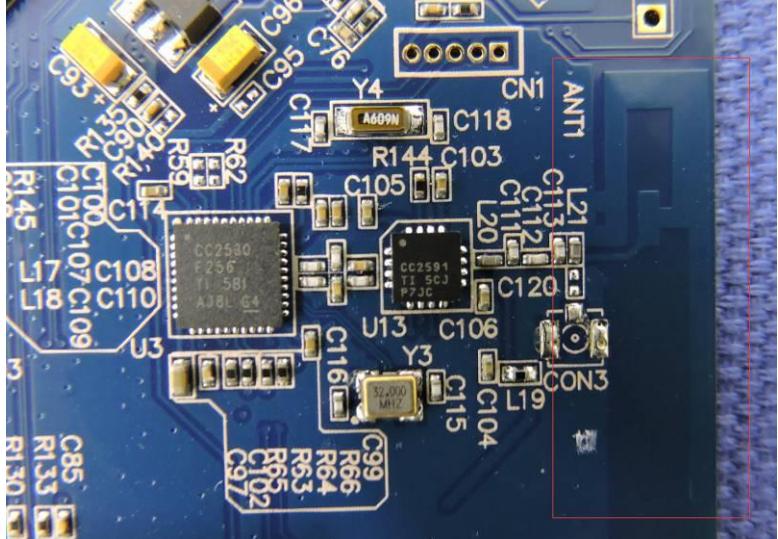
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Due Date
1	ESPI Test Receiver	R&S	ESVD	100008	2017/08/11
2	Spectrum Analyzer	R&S	FSEM	848597/001	2017/08/11
3	Spectrum Analyzer	Agilent	N9020A	MY49100060	2017/08/12
4	Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	2017/08/11
5	Pre-amplifier	HP	8447D	2727A05017	2017/08/11
6	Loop antenna	ZHINAN	ZN30900A	12024	2017/08/13
7	Broadband Antenna	R&S	VULB9163	340	2017/08/13
8	Horn Antenna	R&S	BBHA 9120D	631	2017/08/13
9	Horn Antenna	R&S	BBHA 9170	373	2017/08/13
10	Antenna Mast	CCS	CC-A-4M	N/A	N/A
11	Coax cable (9KHz~40GHz)	TCT	RE-low-01	N/A	2017/08/11
12	Coax cable (9KHz~40GHz)	TCT	RE-high-02	N/A	2017/08/11
13	Coax cable (9KHz~40GHz)	TCT	RE-low-02	N/A	2017/08/11
14	Coax cable (9KHz~40GHz)	TCT	RE-high-04	N/A	2017/08/11
15	Spectrum Analyzer	R&S	FSU	200054	2017/08/11
16	Antenna Connector	TCT	RFC-01	N/A	2017/08/12
17	RF cable(9KHz~40GHz)	TCT	RE-06	N/A	2017/08/12
18	LISN	R&S	NSLK 8126	8126453	2017/08/16

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

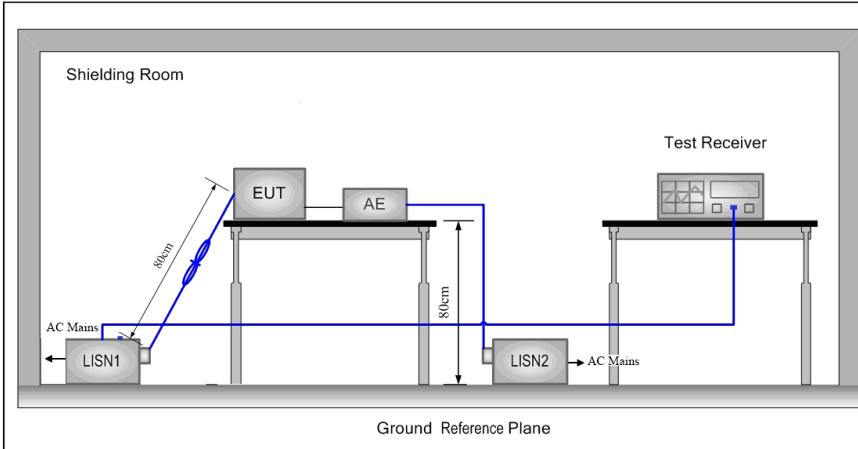
6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
15.203 requirement:	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.
EUT Antenna:	

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.3dBi.

6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150KHz to 30MHz		
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 Procedure:	<ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0,4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0,8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 		
Test Setup:			

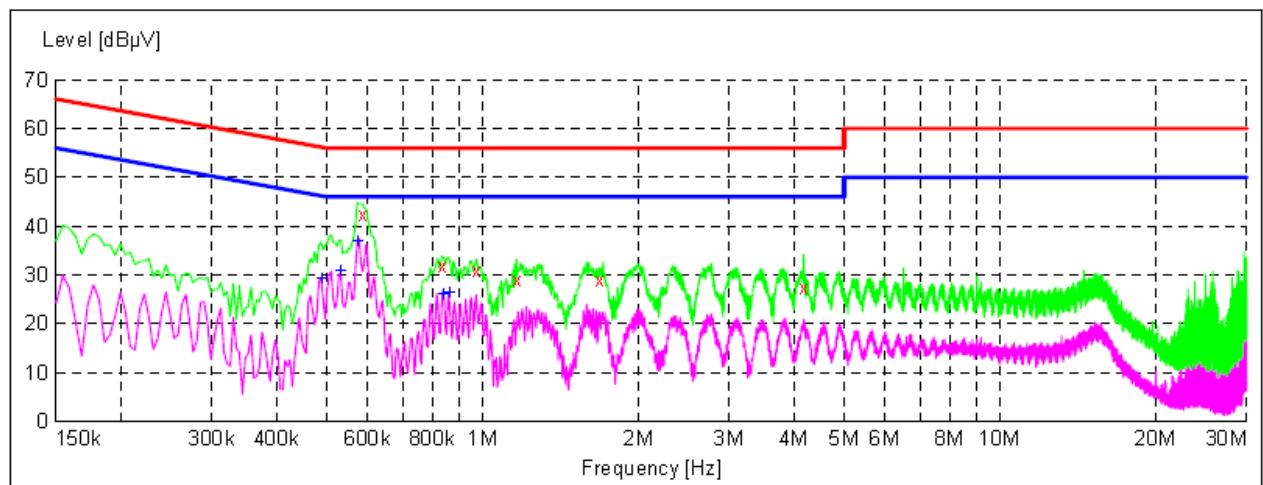
Test Mode:	Charge+Keep the EUT in transmitting mode
Final Test Mode:	Through Pre-scan, find at the lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Voltage:	AC 120V/60Hz
Test Results:	Pass

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

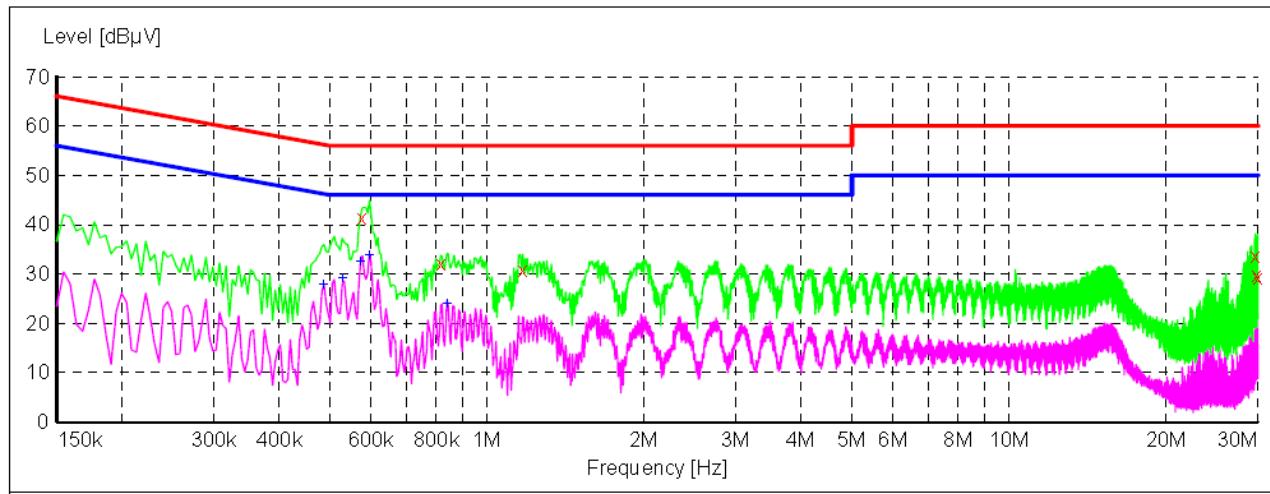
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.584000	42.40	10.2	56	13.6	QP	L1	GND
0.836000	31.90	10.2	56	24.1	QP	L1	GND
0.968000	31.10	10.3	56	24.9	QP	L1	GND
1.166000	29.10	10.3	56	26.9	QP	L1	GND
1.676000	29.00	10.3	56	27.0	QP	L1	GND
4.172000	27.40	10.4	56	28.6	QP	L1	GND
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.486000	29.40	10.2	46	16.8	AV	L1	GND
0.530000	30.90	10.2	46	15.1	AV	L1	GND
0.572000	37.00	10.2	46	9.0	AV	L1	GND
0.836000	26.10	10.2	46	19.9	AV	L1	GND
0.860000	26.40	10.2	46	19.6	AV	L1	GND

Neutral Line:



Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
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0.578000	41.50	10.2	56	14.5	QP	N	GND
0.818000	32.10	10.2	56	23.9	QP	N	GND
1.172000	30.90	10.3	56	25.1	QP	N	GND
29.660000	33.50	11.1	60	26.5	QP	N	GND
29.840000	29.80	11.1	60	30.2	QP	N	GND
29.966000	29.20	11.1	60	30.8	QP	N	GND

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
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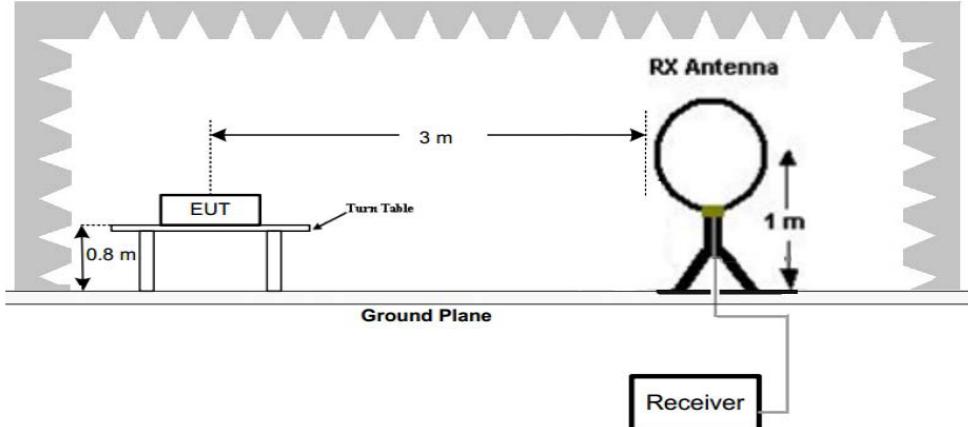
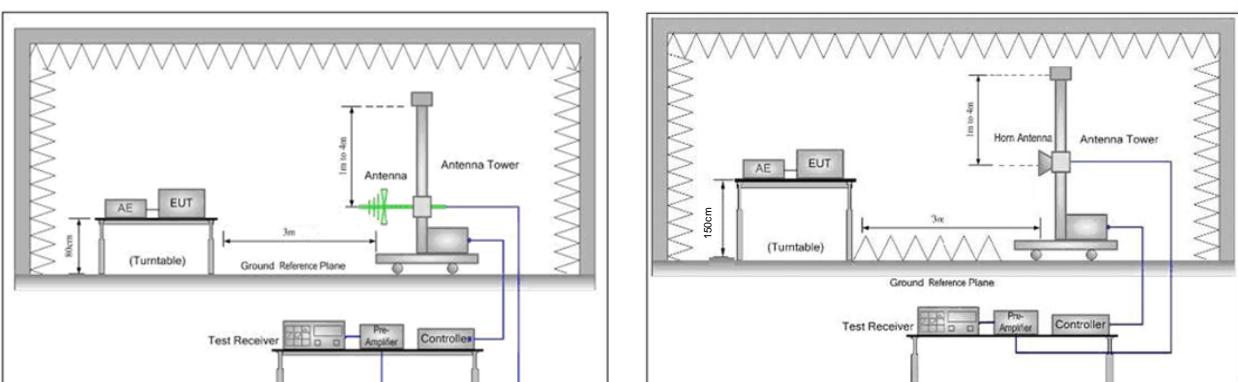
0.486000	28.00	10.2	46	18.2	AV	N	GND
0.530000	29.30	10.2	46	16.7	AV	N	GND
0.572000	32.70	10.2	46	13.3	AV	N	GND
0.596000	34.00	10.2	46	12.0	AV	N	GND
0.842000	24.10	10.2	46	21.9	AV	N	GND

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

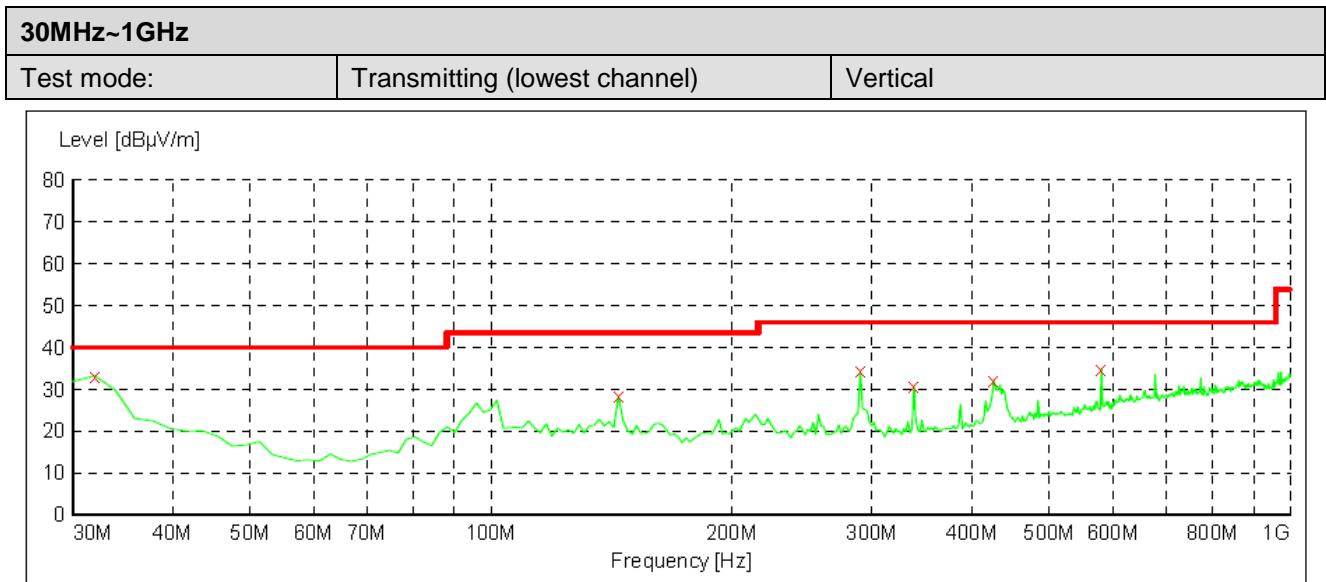
6.3 Radiated Emission

Test Requirement:	47 CFR Part 15C Section 15.249 and 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120 kHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Note: For fundamental frequency, RBW=5MHz, VBW=5MHz, Peak detector is for PK value, RMS detector is for Average value.					
Limit: (Spurious Emissions and band edge)	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Note: 1) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				
2) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.					
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark	
	2400MHz-2483.5MHz	94.0		Average Value	
		114.0		Peak Value	

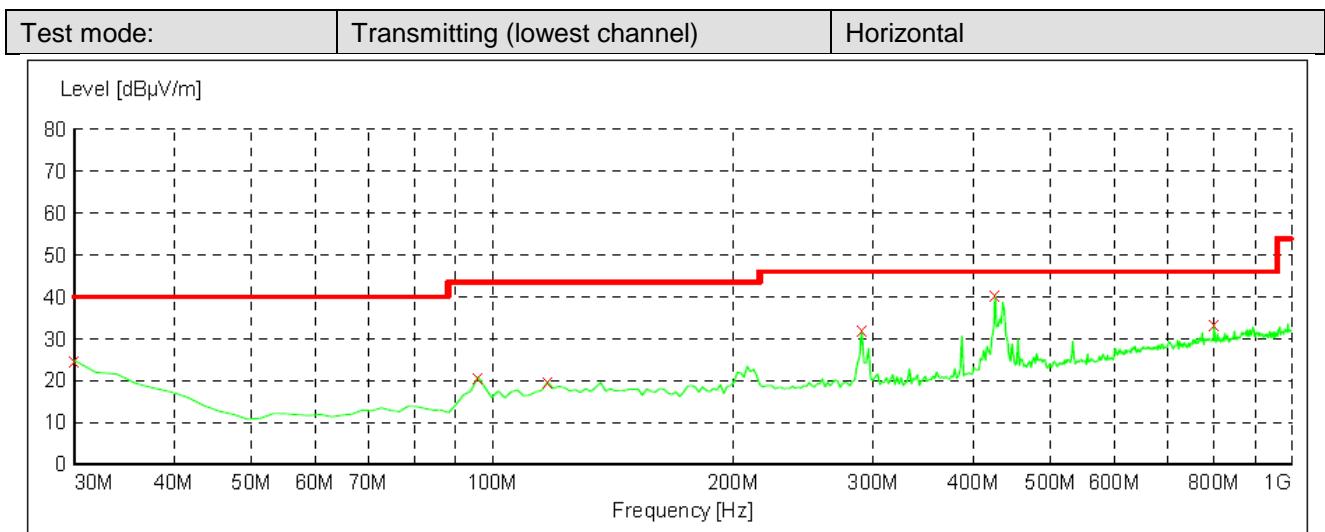
Test Setup:	
	
	<p>Figure 1. Below 30MHz</p>
	
	<p>Figure 2. 30MHz to 1GHz</p>
	<p>Figure 3. Above 1 GHz</p>
Test Procedure:	<p>a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p>

	<ul style="list-style-type: none"> e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Charging+Transmitting mode
Final Test Mode:	<p>Pretest the EUT at Charging+Transmitting mode, found the Charging+Transmitting mode which it is worse case</p> <p>Pretest the EUT at Charging+Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel.</p> <p>Only the worst case is recorded in the report.</p>
Test Voltage:	DC120V/60Hz
Test Results:	Pass

Measurement Data



Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det.
31.940000	33.20	19.2	40.0	6.8	-PK-
144.460000	28.50	14.1	43.5	15.0	-PK-
289.960000	34.50	15.2	46.0	11.5	-PK-
338.460000	30.80	16.4	46.0	15.2	-PK-
425.760000	32.20	18.6	46.0	13.8	-PK-
580.960000	34.90	21.5	46.0	11.1	-PK-



Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det.
30.000000	24.80	20.8	40.0	15.2	- PK-
95.960000	20.90	10.2	43.5	22.6	- PK-
117.300000	19.70	14.7	43.5	23.8	- PK-
289.960000	32.00	15.2	46.0	14.0	- PK-
425.760000	40.50	18.6	46.0	5.5	- PK-
800.180000	33.40	24.7	46.0	12.6	- PK-

Above 1GHz							
Test mode:		Transmitting	Test channel:	Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)		H/V
2390	46.04	-4.36	41.68	74	-32.32	peak	H
2390	34.49	-4.36	30.13	54	-23.87	AVG	H
2400	54.07	-4.36	49.71	74	-24.29	peak	H
2400	40.63	-4.36	36.27	54	-17.73	AVG	H
2405	104.17	-4.37	99.80	114	-14.20	peak	H
2405	95.84	-4.37	91.47	94	-2.53	AVG	H
4810	49.39	-5.18	44.21	74	-29.79	peak	H
4810	37.19	-5.18	32.01	54	-21.99	AVG	H
7215	49.30	-6.45	42.85	74	-31.15	peak	H
7215	36.30	-6.45	29.85	54	-24.15	AVG	H
2390	48.39	-4.36	44.03	74	-29.97	peak	V
2390	35.77	-4.36	31.41	54	-22.59	AVG	V
2400	54.66	-4.36	50.30	74	-23.70	peak	V
2400	41.15	-4.36	36.79	54	-17.21	AVG	V
2405	100.82	-4.37	96.45	114	-17.55	peak	V
2405	93.07	-4.37	88.70	94	-5.30	AVG	V
4810	48.70	-5.18	43.52	74	-30.48	peak	V
4810	37.26	-5.18	32.08	54	-21.92	AVG	V
7215	49.58	-6.45	43.13	74	-30.87	peak	V
7215	35.92	-6.45	29.47	54	-24.53	AVG	V

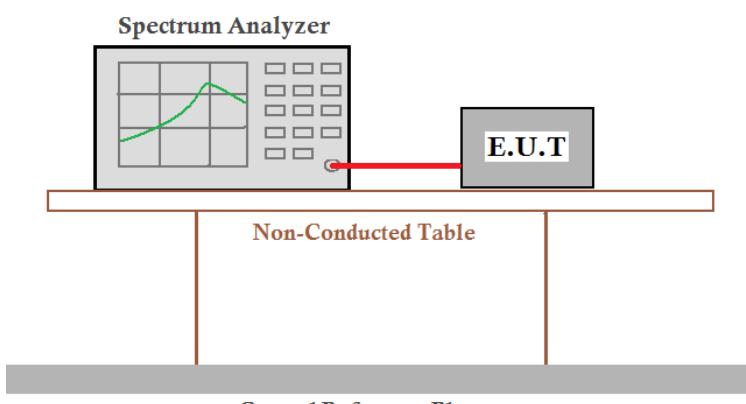
Test mode:		Transmitting		Test channel:		Middle	
Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Over (dB)	Detector Type	Ant. Pol. H/V
2440	102.63	-4.39	98.24	114	-15.76	peak	H
2440	93.33	-4.39	88.94	94	-5.06	AVG	H
4880	49.79	-5.19	44.60	74	-29.40	peak	H
4880	36.46	-5.19	31.27	54	-22.73	AVG	H
7320	49.96	-6.47	43.49	74	-30.51	peak	H
7320	35.33	-6.47	28.86	54	-25.14	AVG	H
2440	99.85	-4.39	95.46	114	-18.54	peak	V
2440	90.15	-4.39	85.76	94	-8.24	AVG	V
4880	49.68	-5.19	44.49	74	-29.51	peak	V
4880	37.13	-5.19	31.94	54	-22.06	AVG	V
7320	48.68	-6.47	42.21	74	-31.79	peak	V
7320	36.11	-6.47	29.64	54	-24.36	AVG	V

Test mode:		Transmitting		Test channel:		Highest		
Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Over (dB)	Detector Type	Ant. Pol.	
							H/V	
2480	101.84	-4.22	97.62	114	-16.38	peak	H	
2480	92.90	-4.22	88.68	94	-5.32	AVG	H	
2483.5	56.44	-4.22	52.22	74	-21.78	peak	H	
2483.5	44.99	-4.22	40.77	54	-13.23	AVG	H	
4960	51.20	-5.2	46.00	74	-28.00	peak	H	
4960	38.45	-5.2	33.25	54	-20.75	AVG	H	
7440	49.58	-6.47	43.11	74	-30.89	peak	H	
7440	37.40	-6.47	30.93	54	-23.07	AVG	H	
2480	96.89	-4.22	92.67	114	-21.33	peak	V	
2480	88.85	-4.22	84.63	94	-9.37	AVG	V	
2483.5	56.20	-4.22	51.98	74	-22.02	peak	V	
2483.5	44.86	-4.22	40.64	54	-13.36	AVG	V	
4960	50.55	-5.2	45.35	74	-28.65	peak	V	
4960	37.92	-5.2	32.72	54	-21.28	AVG	V	
7440	50.33	-6.47	43.86	74	-30.14	peak	V	
7440	37.90	-6.47	31.43	54	-22.57	AVG	V	

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, The disturbance above 10GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .

6.4 20dB Bandwidth

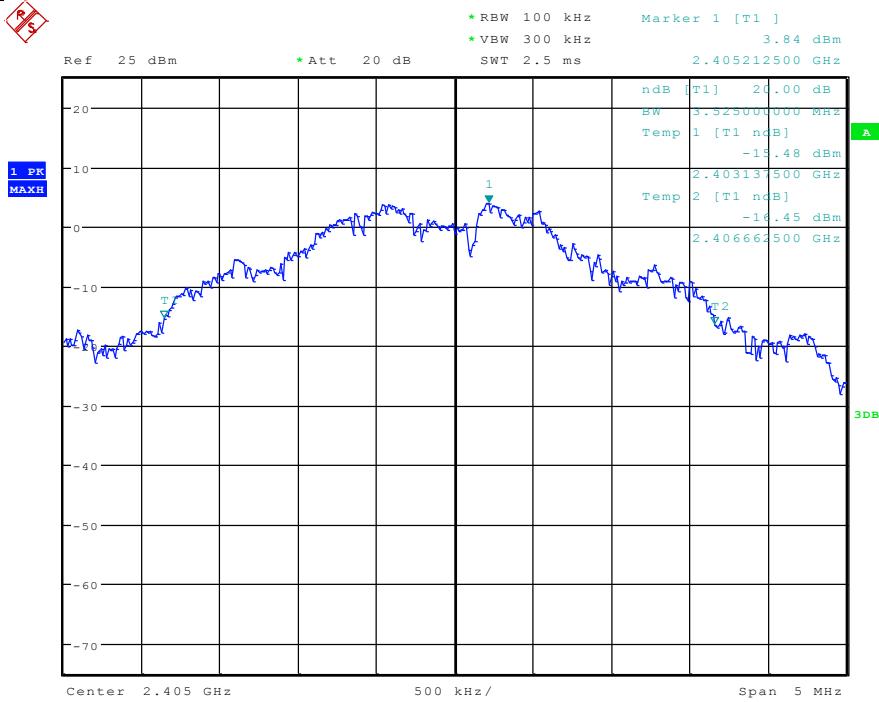
Test Requirement:	47 CFR Part 15C Section 15.215
Test Method:	ANSI C63.10:2013
Test Setup:	
Instruments Used:	Refer to section 5.10 for details
Test Mode:	Transmitting with OQPSK modulation.
Limit:	N/A
Test Results:	Pass

Measurement Data

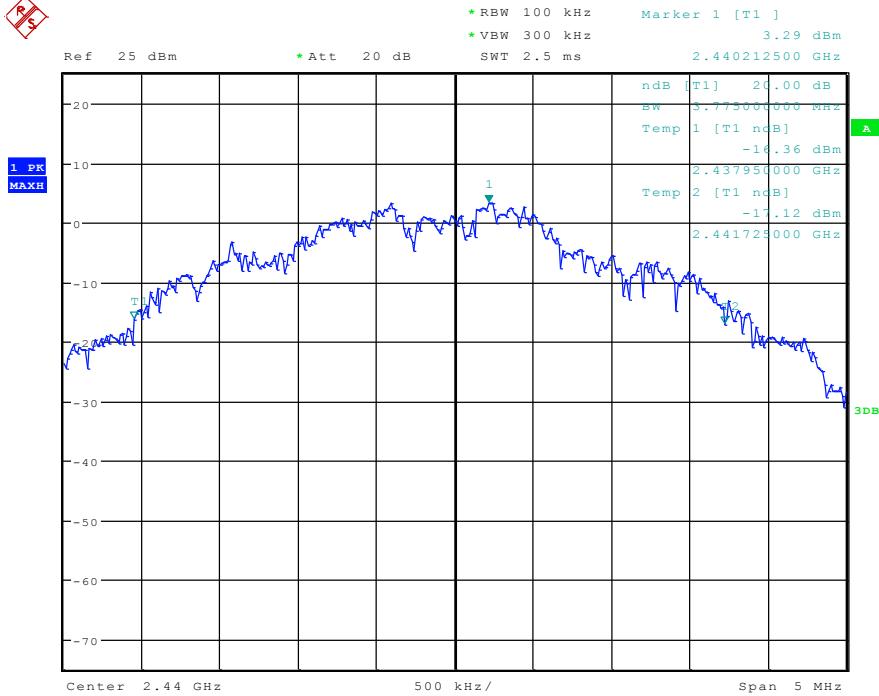
Test channel	20dB bandwidth (MHz)	Results
Lowest	3.525	Pass
Middle	3.775	Pass
Highest	3.045	Pass

Test plot as follows:

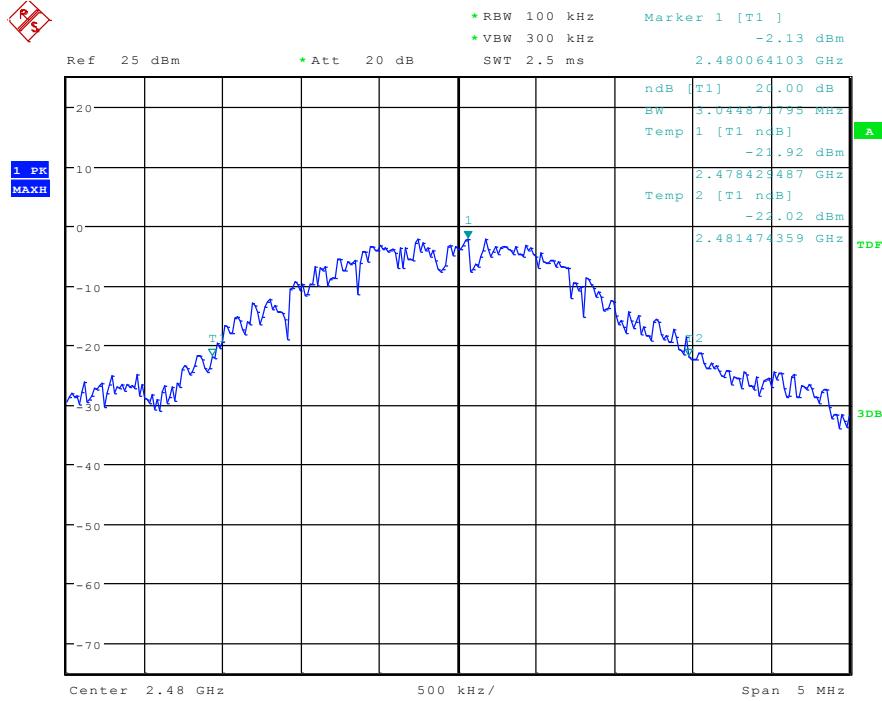
Test channel: Lowest



Test channel: Middle



Test channel: Highest



7 Photographs

7.1 Radiated Emission Test Setup

Below 1GHz:



Above 1GHz:

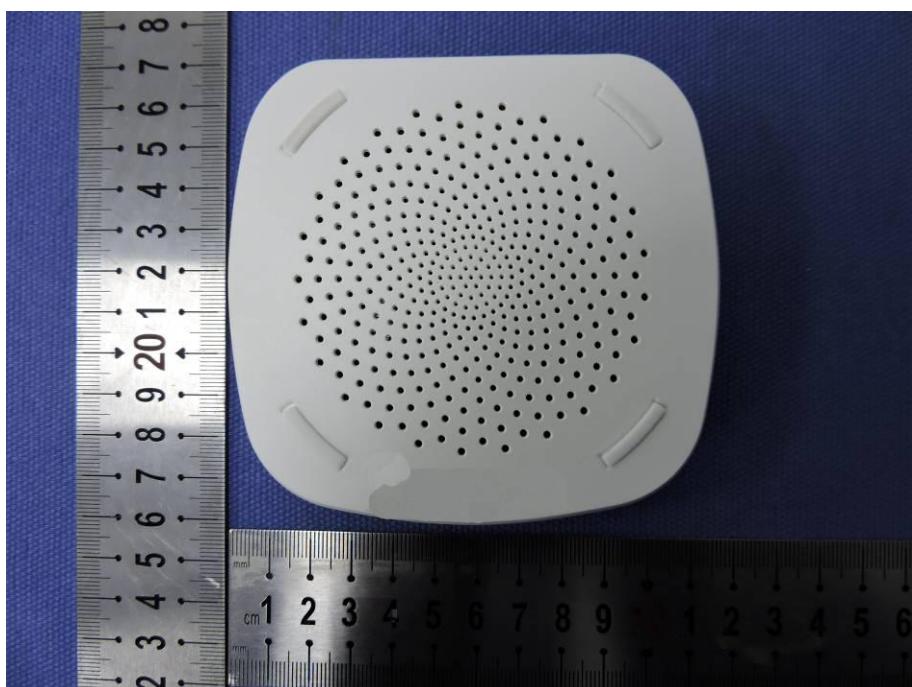


7.2 Conducted Emission



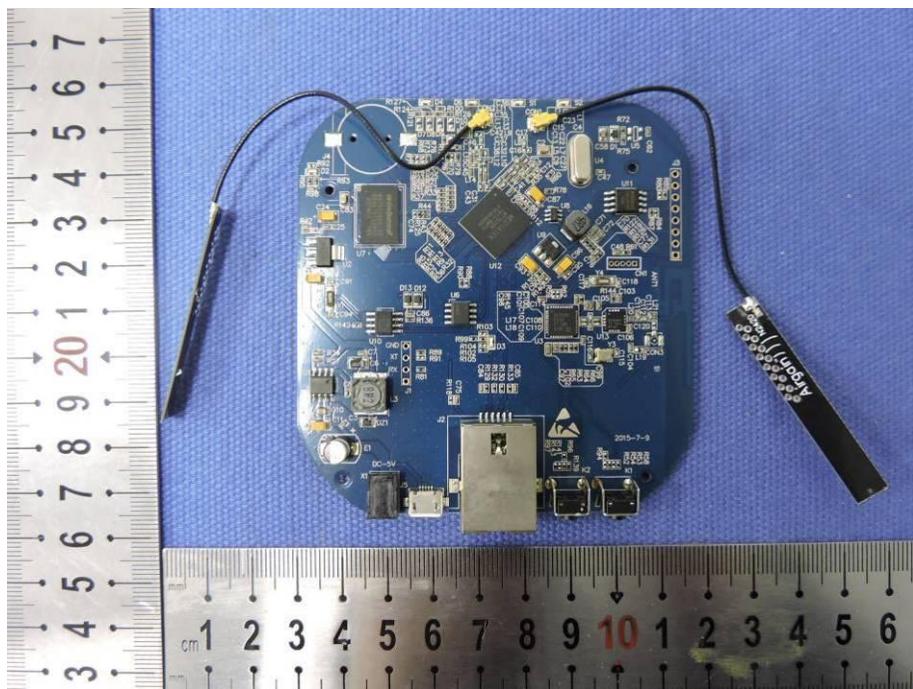
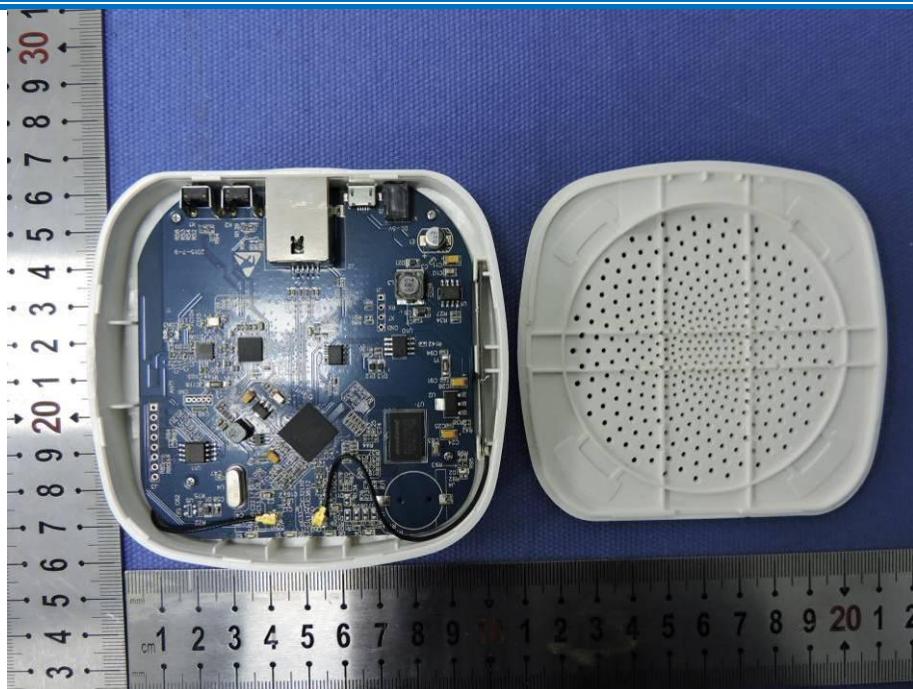
7.3 EUT Constructional Details

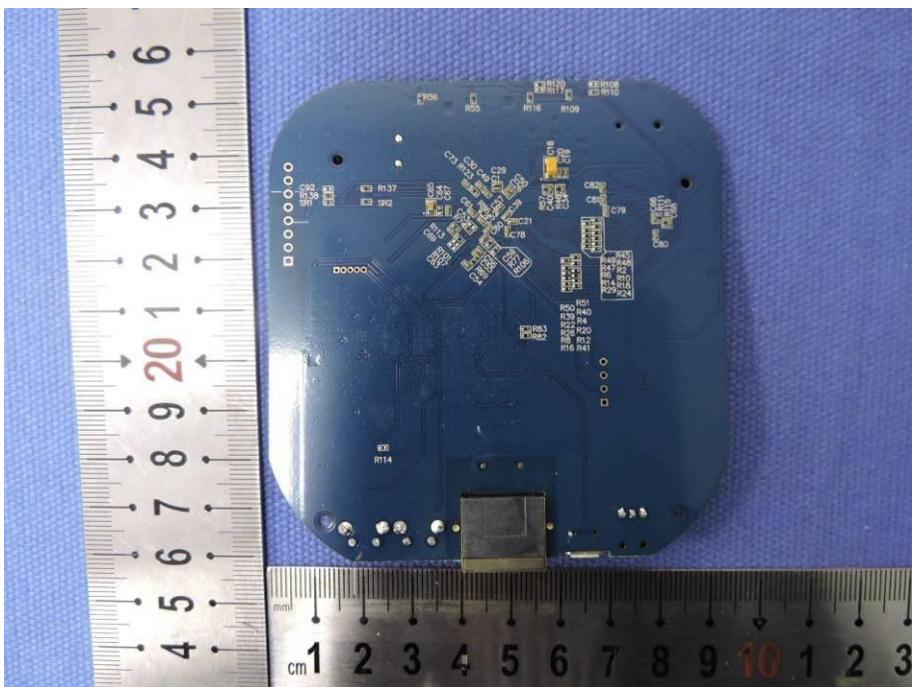
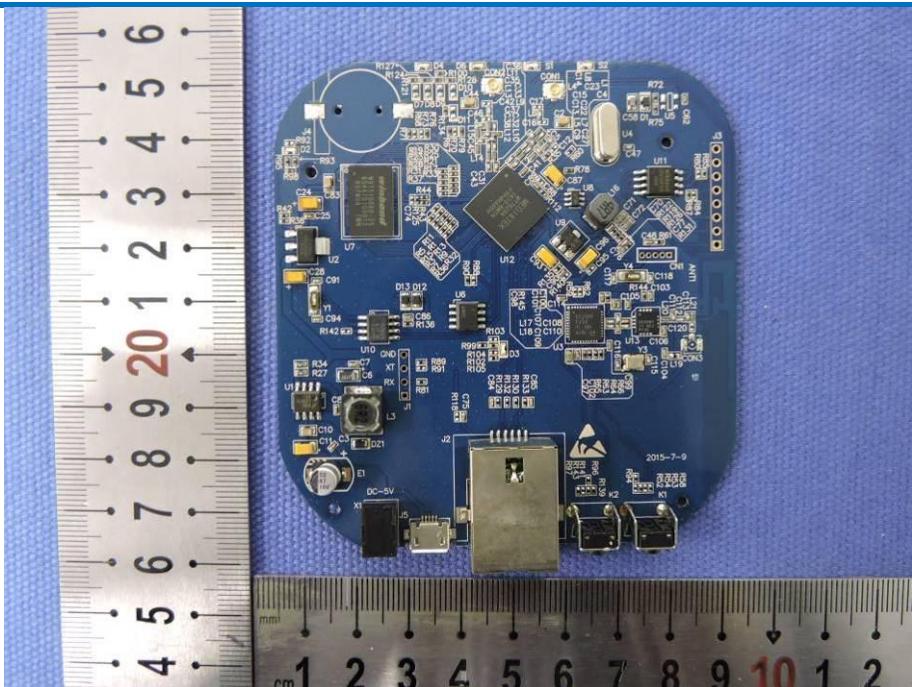


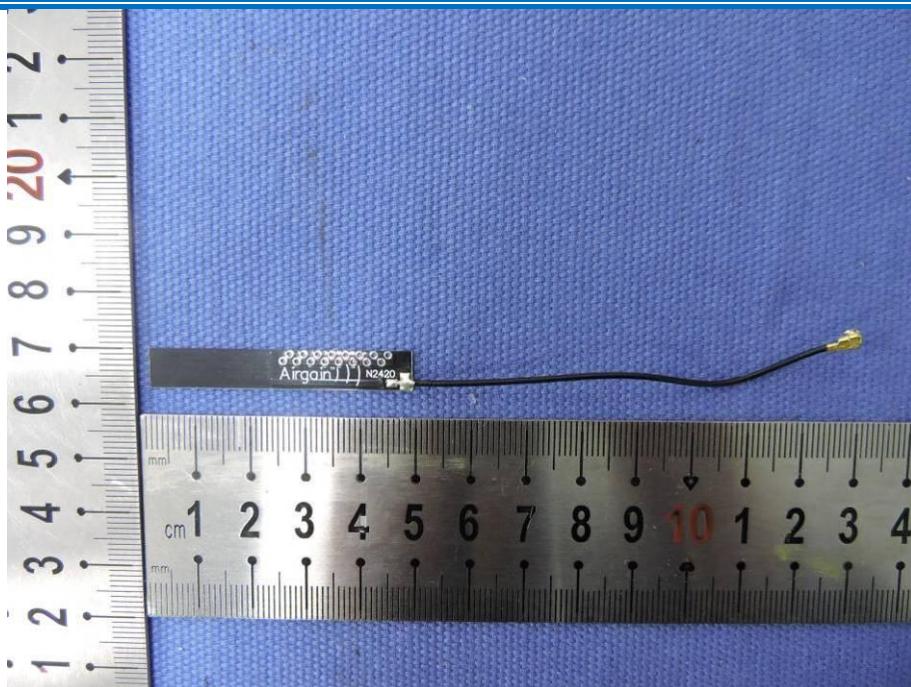












END OF THE REPORT