

FCC TEST REPORT
for
Hunan Ocean Wing E-commerce Technology Co., Ltd.

Anker Portable Bluetooth Speaker
Model No.: 99ANSP9901

Prepared for : Hunan Ocean Wing E-commerce Technology Co., Ltd.
Address : 25 Floor, Jiatian International Building, #359 Furong Zhonglu,
Changsha, Hunan Province, China

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Report Number : 201312870F
Date of Test : Dec. 25, 2013~ Jan. 23, 2014
Date of Report : Jan. 23, 2014

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TEST REPORT

Applicant : Hunan Ocean Wing E-commerce Technology Co., Ltd.
Manufacturer : Hunan Ocean Wing E-commerce Technology Co., Ltd.
EUT : Anker Portable Bluetooth Speaker
Model No. : 99ANSP9901
Serial No. : N/A
Trade Mark : ANKER
Rating : DC 3.7V, 2100mAh

Measurement Procedure Used:

FCC Part15 Subpart C, Paragraph 15.207, 15.249 & 15.209

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

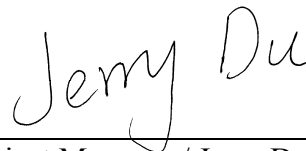
Date of Test : Dec. 25, 2013~ Jan. 23, 2014

Prepared by :



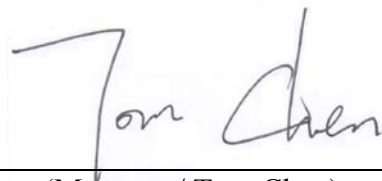
(Tested Engineer / Rock Zeng)

Reviewer :



(Project Manager / Jerry Du)

Approved & Authorized Signer :



(Manager / Tom Chen)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: Anker Portable Bluetooth Speaker
Model Number	: 99ANSP9901
Test Power Supply	: DC 3.7V
Frequency	: 2402-2480MHz
No. of Channel	: 79
Channel Space	: 1MHz
Antenna Specification	: Printed Antenna: 2 dBi
Applicant Address	: Hunan Ocean Wing E-commerce Technology Co., Ltd. : 25 Floor, Jiatian International Building, #359 Furong Zhonglu, Changsha, Hunan Province, China
Manufacturer Address	: Hunan Ocean Wing E-commerce Technology Co., Ltd. : 25 Floor, Jiatian International Building, #359 Furong Zhonglu, Changsha, Hunan Province, China
Factory Address	: Hunan Ocean Wing E-commerce Technology Co., Ltd. : Room 08_09 5th, Y2 Creative Industry Park, Yayuan Road, Bantian Street, Longgang, Shenzhen
Date of receiver	: Dec. 25, 2013
Date of Test	: Dec. 25, 2013~ Jan. 23, 2014

1.2. Auxiliary Equipment Used during Test

Adapter : Power Supply
Model: CW0502000
Input: 100-240V~, 50-60Hz, 0.4A Max
Output: 5V $\overline{\text{---}}$, 2A

1.3. Description of Test Facility

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

FCC-Registration No.: 463622

EMC Laboratory 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 463622, June 14, 2011.

IC-Registration No.: 46405-9469

EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 46405-9469, May 02, 2011.

Test Location

All Emissions tests were performed at
NINGBO EMTEK CO., LTD. at 1F Building 4, 1177#, Lingyun Road, Ningbo
National Hi-Tech Zone, Ningbo, Zhejiang, China

1.4. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.3dB
Conduction Uncertainty : Uc = 3.4dB

2. Test Procedure

GENERAL: This report shall NOT be reproduced except in full without the written approval of Shenzhen Anbotek Compliance Laboratory Limited. The EUT was transmitting a test signal during the testing.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-2009 using a spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz up to 1.0GHz and 1.0MHz with a video BW of 3.0MHz above 1.0GHz. The ambient temperature of the EUT was 74.3oF with a humidity of 69%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF = FS
20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

ANSI STANDARD C63.4-2009 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

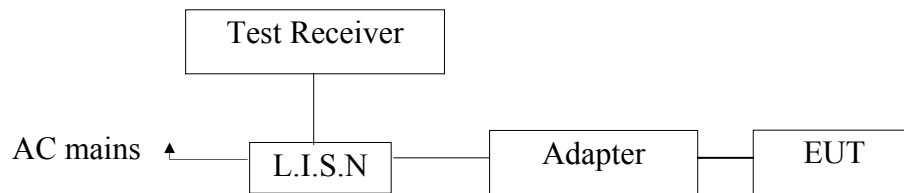
3. Conducted Limits

Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schewarz	ESCI	101108	08/01/2013	1 Year
2.	L.I.S.N	Rohde & Schewarz	ENV216	101193	08/01/2013	1 Year
3.	L.I.S.N	Schwarzbeck	NSLK 8126	8126-462	08/01/2013	1 Year
4.	Pulse Limiter	MTS-system technik	IMP-136	2611115-01-0033	08/01/2013	1 Year

3.1. Block Diagram of Test Setup

3.1.1. Block diagram of connection between the EUT and simulators



3.2. Power Line Conducted Emission Measurement Limits (15.207)

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT and simulator as shown as Section 3.1.
- 3.4.2. Turn on the power of all equipment.
- 3.4.3. Let the EUT work in test mode (Charging) and measure it.

3.5. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2003 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test results are reported on Section 3.6.

3.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150KHz to 30 MHz is investigated.

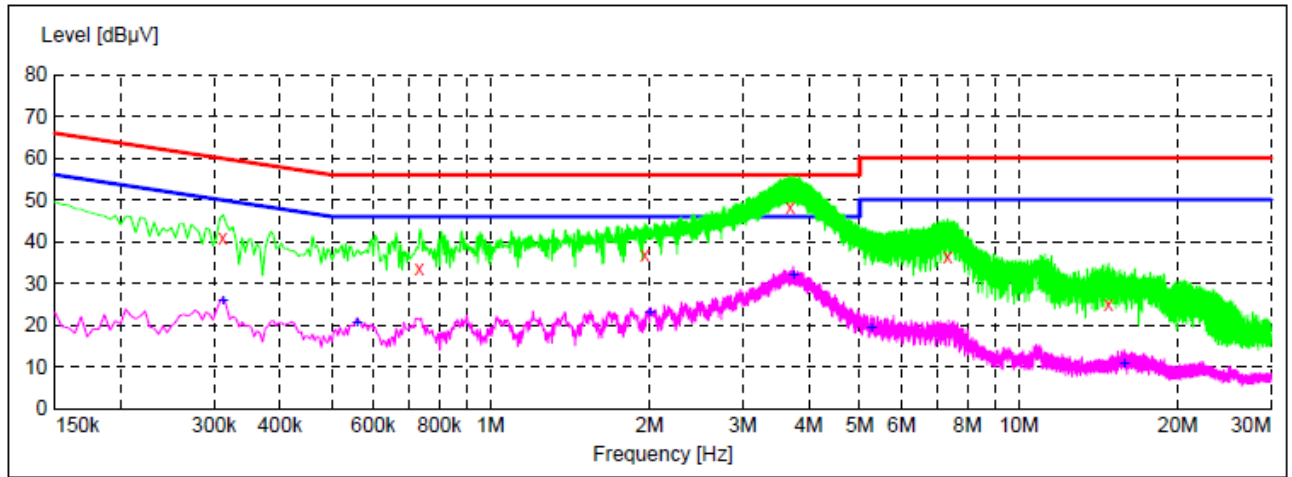
Please refer the following pages.

CONDUCTED EMISSION TEST DATA

Test Site: 1# Shielded Room
 Operating Condition: Charging
 Test Specification: AC 120V/60Hz for Adapter
 Comment: Live Line
 Tem:25°C Hum:50%

SCAN TABLE: "Voltage (150K~30M) FIN"

Short Description: 150K-30M Disturbance Voltages



Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.312000	40.80	20.1	60	19.1	QP	L1	GND
0.735000	33.50	20.1	56	22.5	QP	L1	GND
1.959000	36.70	20.3	56	19.3	QP	L1	GND
3.691500	48.30	20.4	56	7.7	QP	L1	GND
7.327500	36.60	20.5	60	23.4	QP	L1	GND
14.779500	24.80	20.7	60	35.2	QP	L1	GND

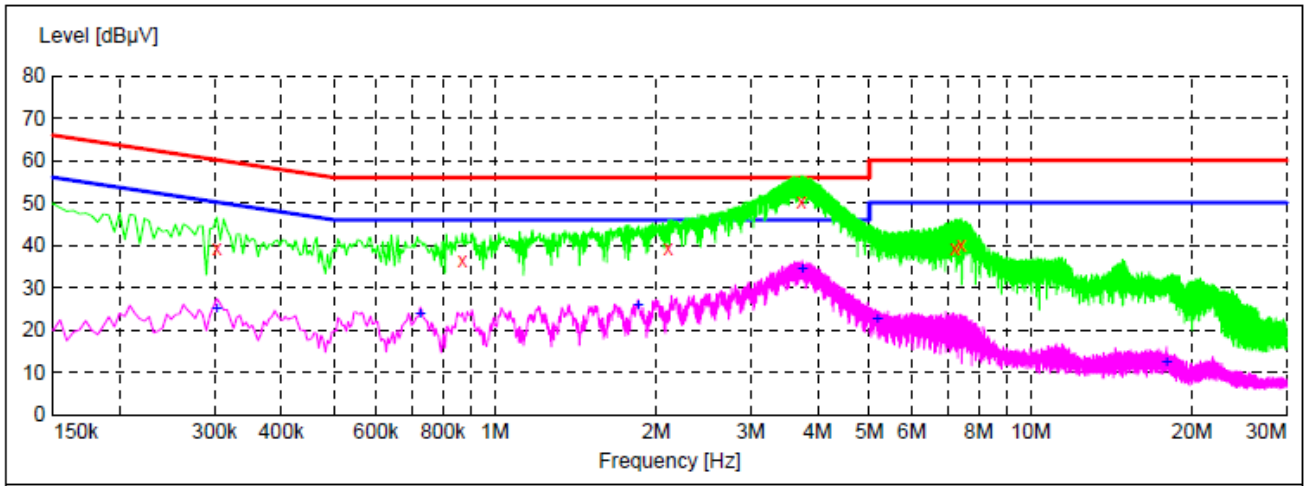
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.312000	25.80	20.1	50	24.1	AV	L1	GND
0.559500	20.50	20.1	46	25.5	AV	L1	GND
2.004000	23.00	20.3	46	23.0	AV	L1	GND
3.741000	32.10	20.4	46	13.9	AV	L1	GND
5.257500	19.30	20.5	50	30.7	AV	L1	GND
15.814500	10.50	20.7	50	39.5	AV	L1	GND

CONDUCTED EMISSION TEST DATA

Test Site: 1# Shielded Room
 Operating Condition: Charging
 Test Specification: AC 120V/60Hz for Adapter
 Comment: Neutral Line
 Tem:25°C Hum:50%

SCAN TABLE: "Voltage(150K~30M)FIN"

Short Description: 150K-30M Disturbance Voltages



Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.303000	39.10	20.1	60	21.1	QP	N	GND
0.870000	36.40	20.1	56	19.6	QP	N	GND
2.107500	39.30	20.3	56	16.7	QP	N	GND
3.732000	50.30	20.4	56	5.7	QP	N	GND
7.210500	39.40	20.5	60	20.6	QP	N	GND
7.417500	40.10	20.5	60	19.9	QP	N	GND

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.303000	24.80	20.1	50	25.4	AV	N	GND
0.726000	23.60	20.1	46	22.4	AV	N	GND
1.851000	25.60	20.3	46	20.4	AV	N	GND
3.745500	34.40	20.4	46	11.6	AV	N	GND
5.163000	22.60	20.5	50	27.4	AV	N	GND
17.907000	12.50	20.8	50	37.5	AV	N	GND

4. Radiation Interference

4.1. Requirements (15.249, 15.209):

4.1.1. Test Limits (< 30 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

4.1.2. Test Limits (\geq 30 MHz)

FIELD STRENGTH of Fundamental: @3M	FIELD STRENGTH of Harmonics	S15.209 30 - 88 MHz	40 dBuV/m
902-928 MHz		88 - 216 MHz	43.5
2.4-2.4835 GHz		216 - 960 MHz	46
94 dBuV/m @3m	54 dBuV/m @3m	ABOVE 960 MHz	54dBuV/m

For range 9KHz~30MHz, The measured value is really too low to be recorded.

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 15.209, whichever is the lesser attenuation.

4.2. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

All readings from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All reading are above 1GHz, peak & average values with a resolution bandwidth of 1MHz. The EUT is tested in 9*6*6 Chamber.

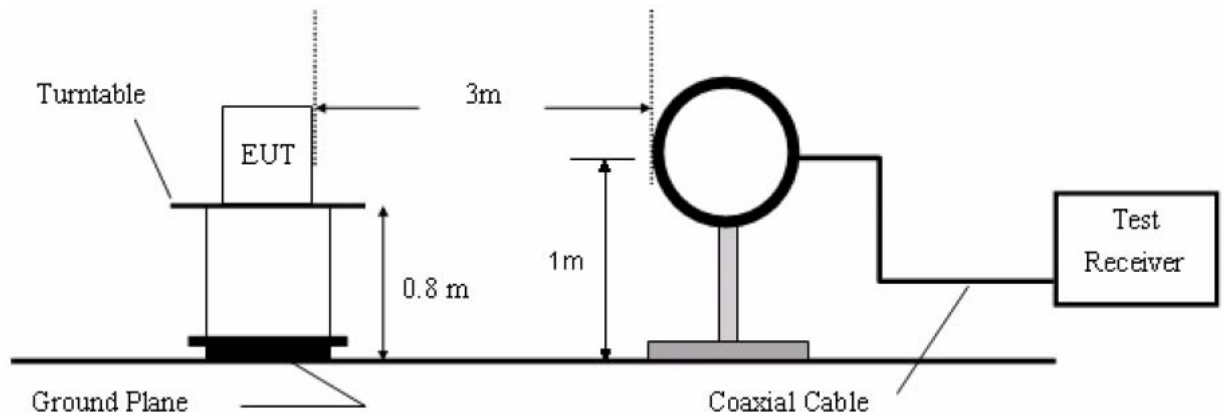
The test results are listed in Section 3.3.

Test Equipment

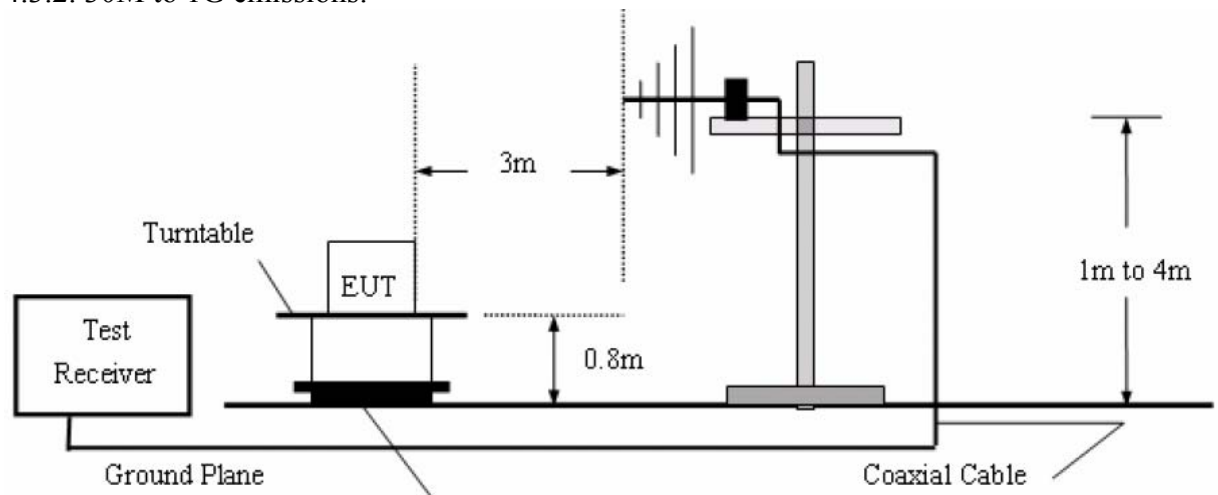
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Rohde & Schwarz	ESU	1302.6005.26	05/28/2013	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/28/2013	1 Year
3.	Pre-Amlifier	HP	8447D	2944A07999	05/28/2013	1 Year
4.	Bilog Antenna	Schwarzbeck	VULB9163	142	05/28/2013	1 Year
5.	Loop Antenna	ARA	PLA-1030/B	1029	05/28/2013	1 Year
6.	Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170399	05/28/2013	1 Year
7.	Horn Antenna	Schwarzbeck	BBHA9120	D143	05/28/2013	1 Year

4.3. Test Configuration:

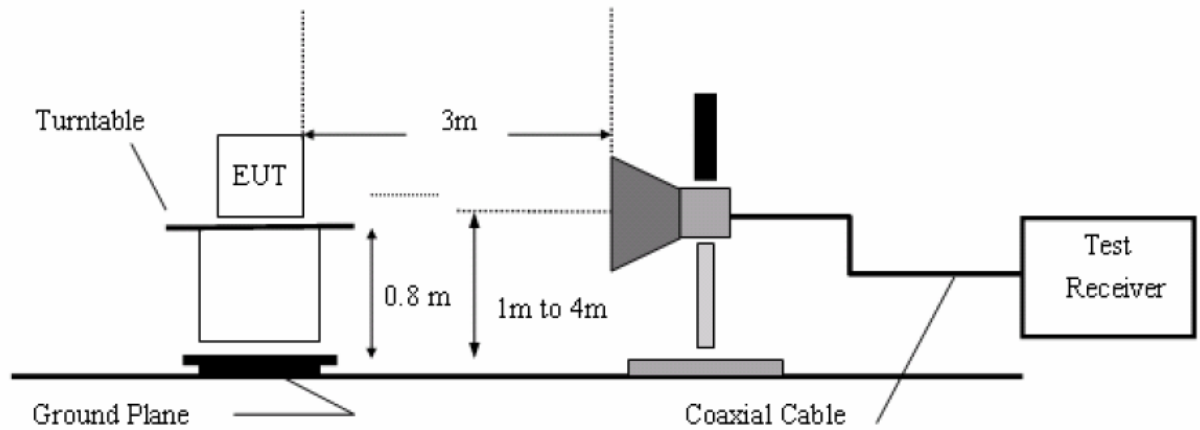
4.3.1. 9k to 30MHz emissions:



4.3.2. 30M to 1G emissions:



4.3.3. 1G to 40G emissions:



4.4. Test Results

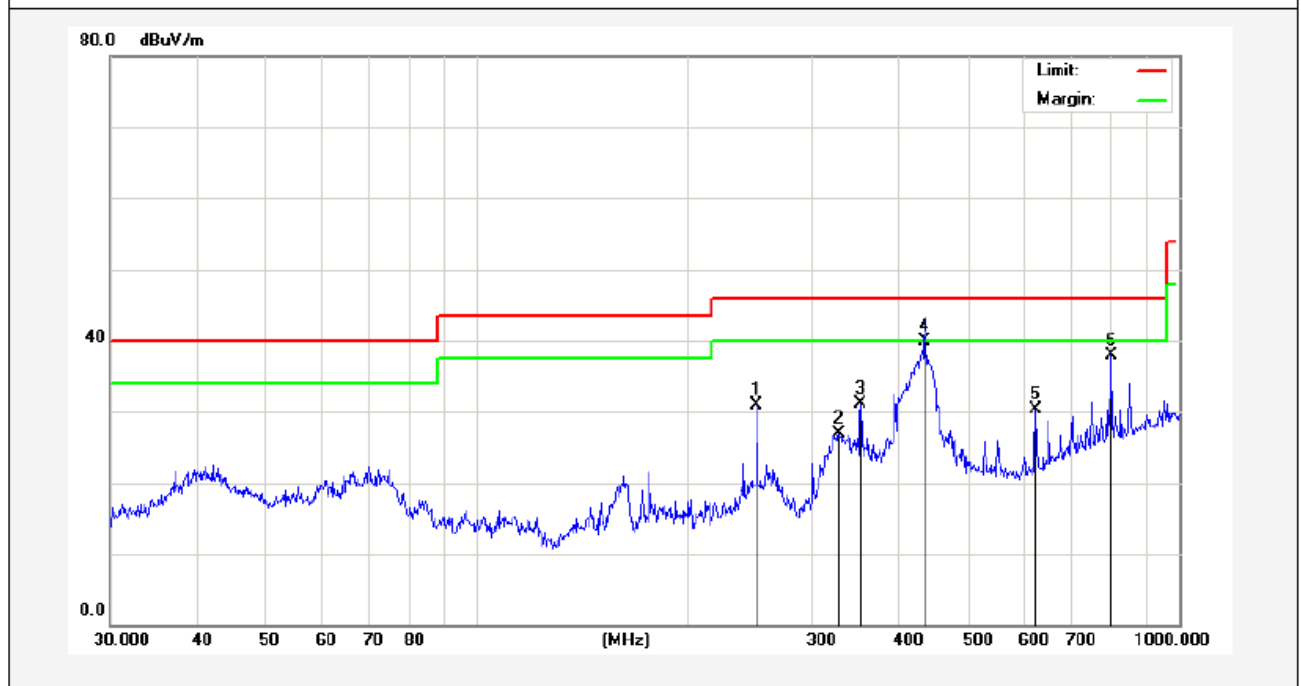
PASS.

Please refer the following pages.

Data:

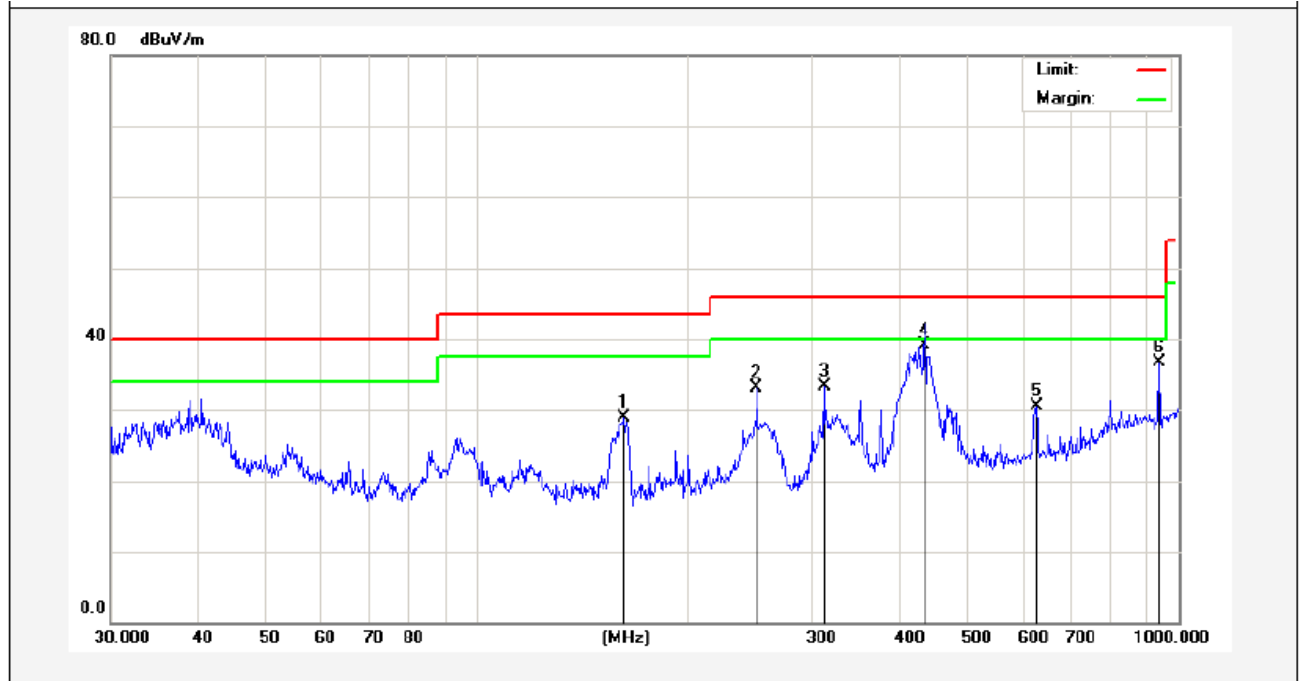
Below 1GHz:

Job No.:	AT1312810F	Polarization:	Horizontal
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 3.7V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Mode:	ON	Distance:	3m
Note:	30-1000MHz		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	250.3012	49.43	-18.56	30.87	46.00	-15.13	peak			
2	327.8873	41.75	-14.88	26.87	46.00	-19.13	peak			
3	351.7079	45.12	-13.92	31.20	46.00	-14.80	peak			
4	434.0650	52.25	-12.27	39.98	46.00	-6.02	QP	300	0	
5	625.0780	40.82	-10.55	30.27	46.00	-15.73	peak			
6	801.7863	44.42	-6.48	37.94	46.00	-8.06	peak			

Job No.:	AT1312810F	Polarziation:	Vertical
Standard:	(RE)FCC PART15 C _3m	Power Source:	DC 3.7V
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3(C)/55%RH
Mode:	ON	Distance:	3m
Note:	30-1000MHz		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	162.0414	46.62	-17.81	28.81	43.50	-14.69	peak			
2	250.3012	47.19	-14.04	33.15	46.00	-12.85	peak			
3	312.1794	47.74	-14.43	33.31	46.00	-12.69	peak			
4	434.0649	50.31	-11.24	39.07	46.00	-6.93	QP	100	0	
5	627.2738	39.50	-9.03	30.47	46.00	-15.53	peak			
6	938.8325	39.92	-3.15	36.77	46.00	-9.23	peak			

Above 1 GHz:

Horizontal CH Low (2402MHz)								
Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBμV	Level dBμV/m	Limit dBμV/m	Over Limit dB	Remark
2402.000	2.17	31.21	35.30	91.84	89.92	114.0	-24.08	Peak
2402.000	2.17	31.21	35.30	82.03	80.11	94.0	-13.89	AV
4804.000	2.56	34.01	34.71	47.77	49.63	74.0	-24.37	Peak
4804.000	2.56	34.01	34.71	34.89	36.75	54.0	-17.25	AV
7206.000	2.98	36.16	35.15	45.05	49.04	74.0	-24.96	Peak
7206.000	2.98	36.16	35.15	30.57	34.56	54.0	-19.44	AV
9608.000	---	---	---	---	---	---	---	---
9608.000	---	---	---	---	---	---	---	---
12010.000	---	---	---	---	---	---	---	---
12010.000	---	---	---	---	---	---	---	---
---		.						

Vertical CH Low (2402MHz)								
Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBμV	Level dBμV/m	Limit dBμV/m	Over Limit dB	Remark
2402.000	2.17	31.21	35.30	92.94	91.02	114.0	-22.98	Peak
2402.000	2.17	31.21	35.30	82.77	80.85	94.0	-13.15	AV
4804.000	2.56	34.01	34.71	43.89	45.75	74.0	-28.25	Peak
4804.000	2.56	34.01	34.71	37.96	39.82	54.0	-14.18	AV
7206.000	2.98	36.16	35.15	42.54	46.53	74.0	-27.47	Peak
7206.000	2.98	36.16	35.15	34.86	38.85	54.0	-15.15	AV
9608.000	---	---	---	---	---	---	---	---
9608.000	---	---	---	---	---	---	---	---
12010.000	---	---	---	---	---	---	---	---
12010.000	---	---	---	---	---	---	---	---

NOTE: “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The results of different modulations are the same.

Horizontal CH Middle (2441MHz)								
Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBμV	Level dBμV/m	Limit dBμV/m	Over Limit dB	Remark
2441.000	2.19	31.22	34.60	94.12	92.93	114.0	-21.07	Peak
2441.000	2.19	31.22	34.60	82.69	81.5	94.0	-12.5	AV
4882.000	2.57	35.00	34.58	44.89	47.88	74.0	-26.12	Peak
4882.000	2.57	35.00	34.58	39.83	42.82	54.0	-11.18	AV
7323.000	3.00	36.17	35.14	42.44	46.47	74.0	-27.53	Peak
7323.000	3.00	36.17	35.14	37.65	41.68	54.0	-12.32	AV
9764.000	---	---	---	---	---	---	---	---
9764.000	---	---	---	---	---	---	---	---
12205.000	---	---	---	---	---	---	---	---
12205.000	---	---	---	---	---	---	---	---

Vertical CH Middle (2441MHz)								
Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBμV	Level dBμV/m	Limit dBμV/m	Over Limit dB	Remark
2441.000	2.19	31.22	34.60	90.88	89.69	114.0	-24.31	Peak
2441.000	2.19	31.22	34.60	83.52	82.33	94.0	-11.67	AV
4882.000	2.57	35.00	34.58	42.15	45.14	74.0	-28.86	Peak
4882.000	2.57	35.00	34.58	40.84	43.83	54.0	-10.17	AV
7323.000	3.00	36.17	35.14	41.87	45.90	74.0	-28.10	Peak
7323.000	3.00	36.17	35.14	36.69	40.72	54.0	-13.28	AV
9764.000	---	---	---	---	---	---	---	---
9764.000	---	---	---	---	---	---	---	---
12205.000	---	---	---	---	---	---	---	---
12205.000	---	---	---	---	---	---	---	---

**NOTE: “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
The results of different modulations are the same.**

Horizontal CH High (2480MHz)								
Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBμV	Level dBμV/m	Limit dBμV/m	Over Limit dB	Remark
2480.000	2.20	31.65	36.00	93.94	91.79	114.0	-22.21	Peak
2480.000	2.20	31.65	36.00	81.25	79.1	94.0	-14.9	AV
4960.000	2.58	35.06	34.79	47.33	50.18	74.0	-23.82	Peak
4960.000	2.58	35.06	34.79	36.12	38.97	54.0	-15.03	AV
7440.000	3.02	36.19	34.90	49.36	53.67	74.0	-20.33	Peak
7440.000	3.02	36.20	35.20	38.15	42.17	54.0	-11.83	AV
9920.000	---	---	---	---	---	---	---	---
9920.000	---	---	---	---	---	---	---	---
12400.000	---	---	---	---	---	---	---	---
12400.000	---	---	---	---	---	---	---	---

Vertical CH High (2480MHz)								
Frequency MHz	Cable Loss dB	Ant Factor dB/m	Preamp Factor dB	Read Level dBμV	Level dBμV/m	Limit dBμV/m	Over Limit dB	Remark
2480.000	2.20	31.65	36.00	93.15	91.00	114.0	-23.00	Peak
2480.000	2.20	31.65	36.00	83.07	80.92	94.0	-13.08	AV
4960.000	2.58	35.06	34.79	44.21	47.06	74.0	-26.94	Peak
4960.000	2.58	35.06	34.79	35.96	38.81	54.0	-15.19	AV
7440.000	3.02	36.19	34.90	42.88	47.19	74.0	-26.81	Peak
7440.000	3.02	36.20	35.20	35.45	39.47	54.0	-14.53	AV
9920.000	---	---	---	---	---	---	---	---
9920.000	---	---	---	---	---	---	---	---
12400.000	---	---	---	---	---	---	---	---
12400.000	---	---	---	---	---	---	---	---

NOTE: “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The results of different modulations are the same.

5. Occupied Bandwidth

5.1. Requirements (15.249):

The field strength of any emissions appearing outside the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 50 dB below the level of the carrier or to the general limits of 15.249.

5.2. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Aug. 09, 2013	1 Year
2.	Preamplifier	Instruments corporation	EMC011830	980100	Aug. 09, 2013	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 23, 2013	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Aug. 09, 2013	3 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Apr. 23, 2013	3 Year
6.	Loop Antenna	ARA	PLA-1030/B	1029	Apr. 23, 2013	3 Year
7.	Pre-amplifier	SONOMA	310N	186860	Apr. 23, 2013	1 Year
8.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A

5.3. Test Configuration:

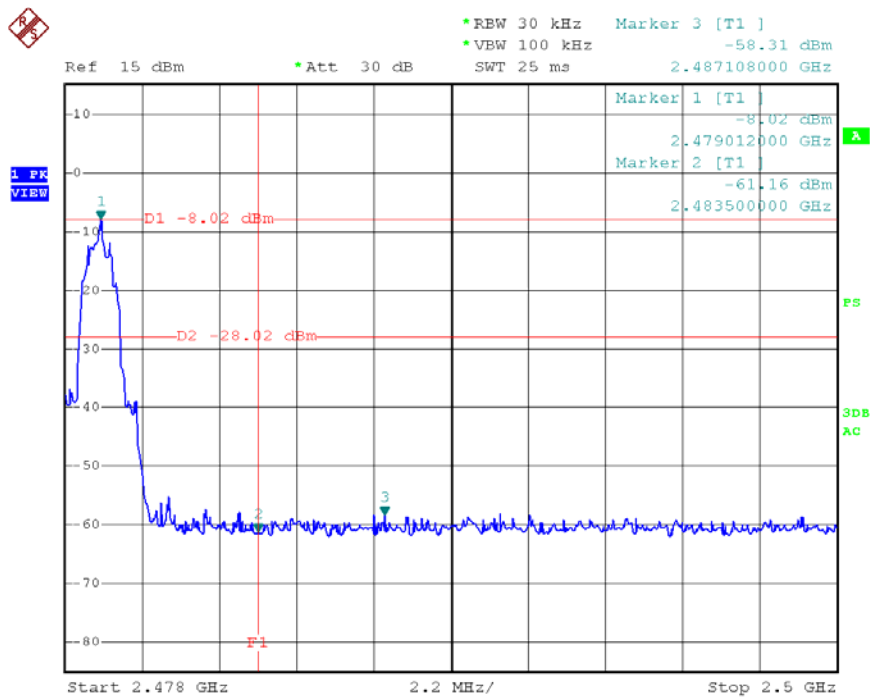
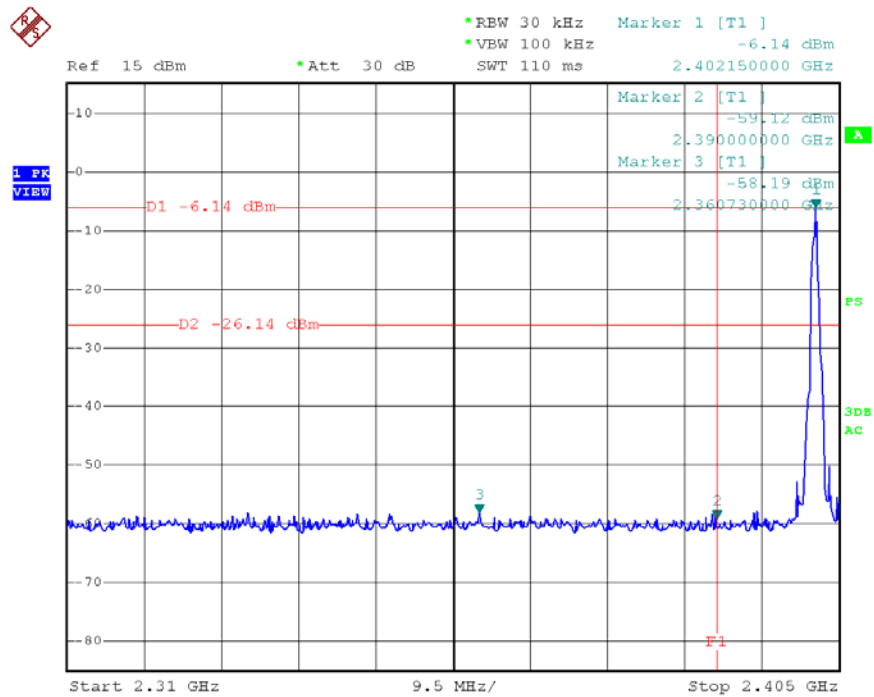
Same as the test configuration in 4.3.

5.4. Test Results

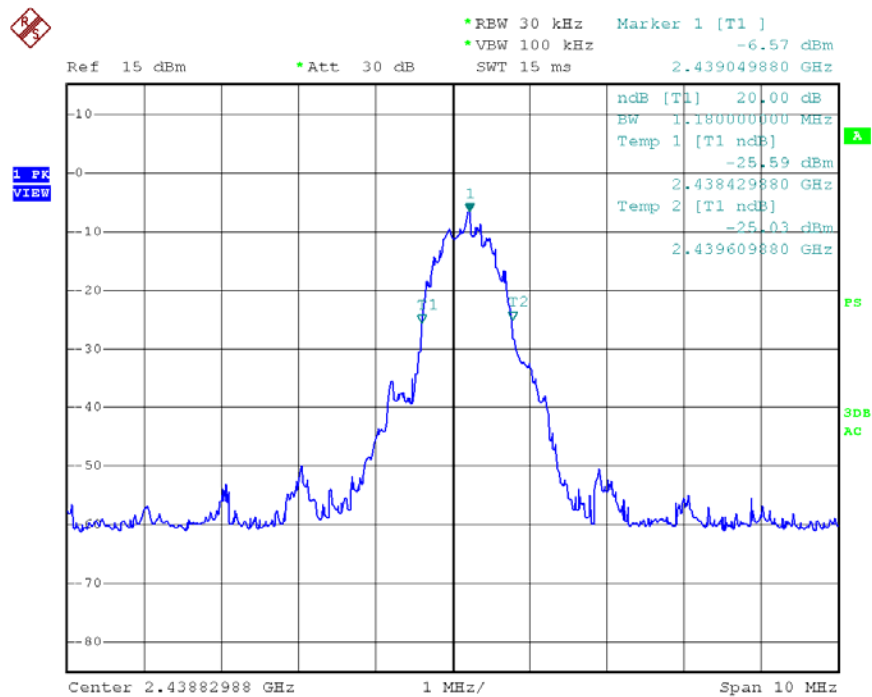
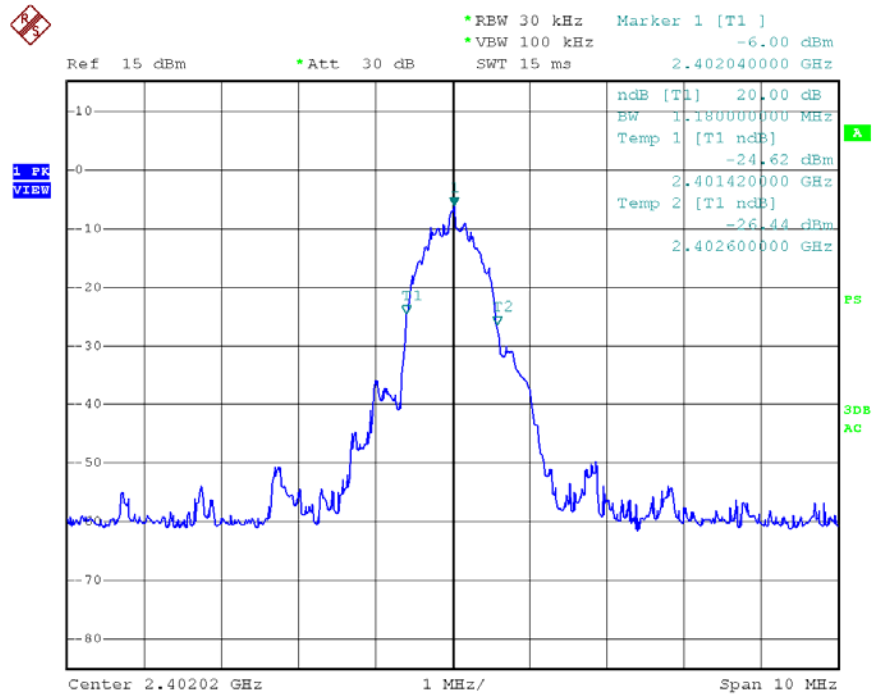
Pass.

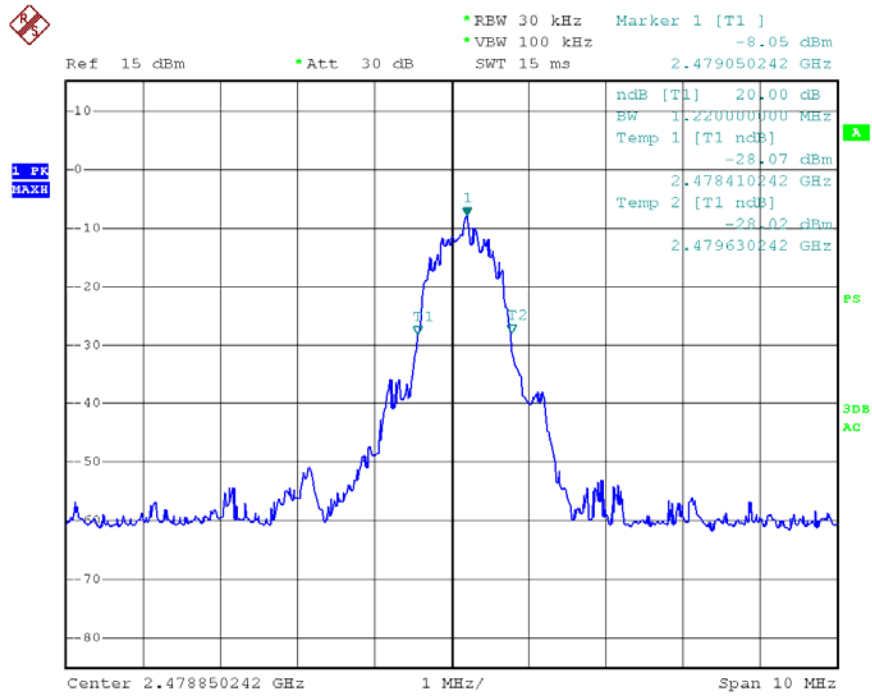
Please refer the following plot.

(Note: Marker 3 means the highest value in 2.39GHz~2.4GHz or 2.4835~2.5GHz)



20dB Down:



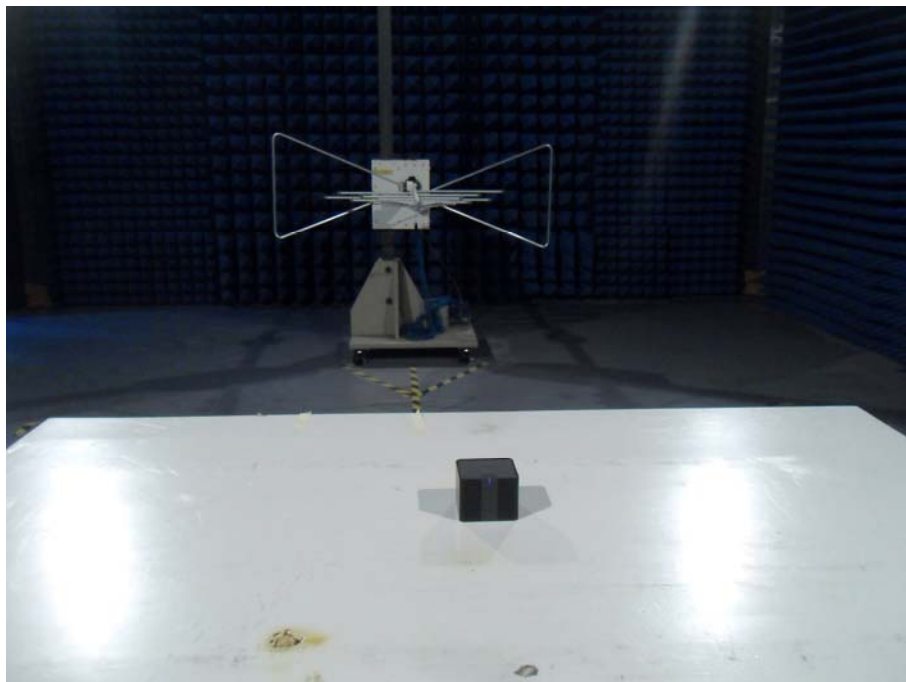


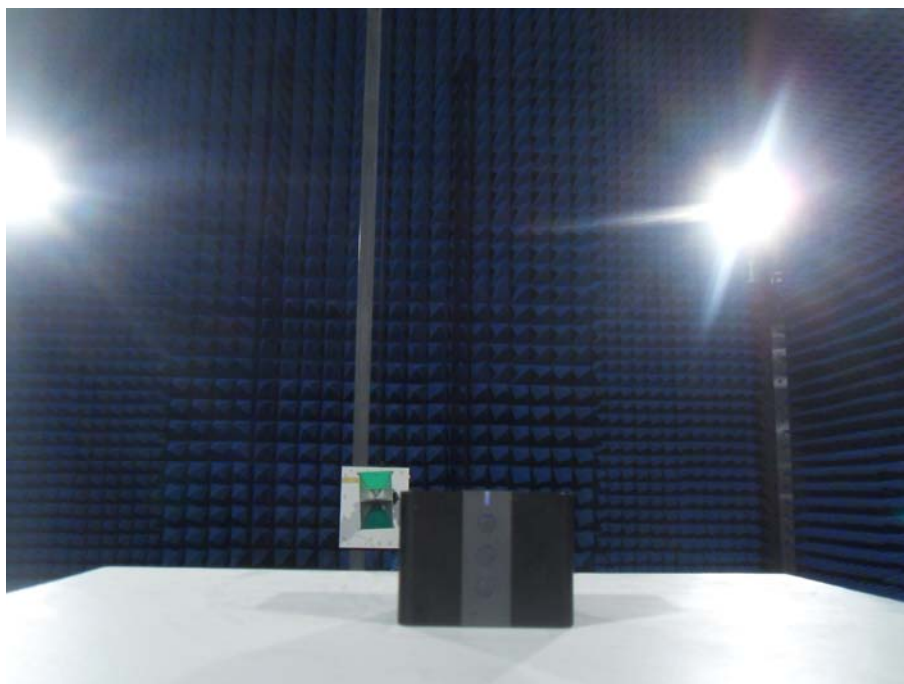
6. PHOTOGRAPH

6.1. Photo of Conducted Emission Test



6.2. Photo of Radiation Emission Test





APPENDIX I (EXTERNAL PHOTOS)

Figure 1
The EUT-Front View



Figure 2
The EUT-Back View



Figure 3
The EUT-Port View



APPENDIX II(INTERNAL PHOTOS)

Figure 4
The EUT-Inside View



Figure 5
PCB of the EUT-Front View



Figure 6
PCB of the EUT-Back View

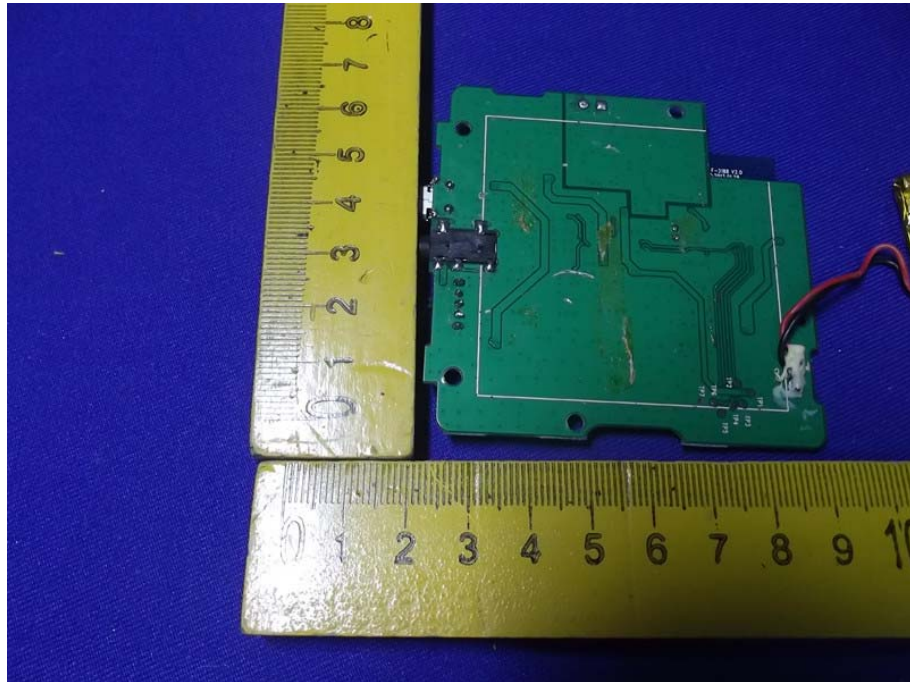


Figure 7
The Battery of EUT View

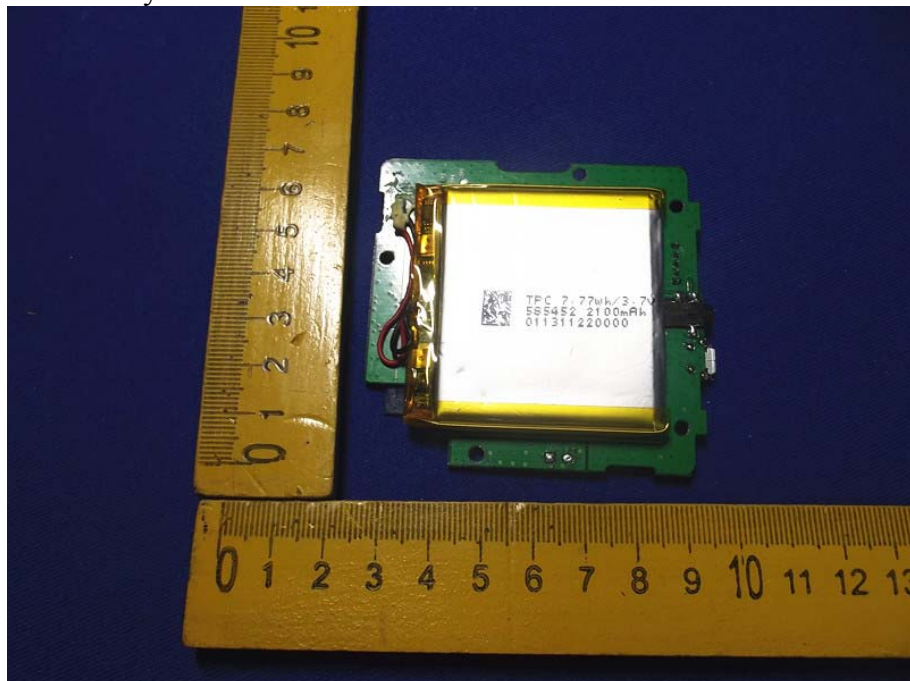


Figure 8

PCB of the BT Module View

