

FCC TEST REPORT
for
Hame Technology Co., Limited

Wireless Router
Model No.: A1, A1+, A1B, A1S, A1W, A2, A2B, A2S, A2W

Prepared for : Hame Technology Co., Limited
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Report Number : 201211673F-1
Date of Test : Nov. 05 to 21, 2012
Date of Report : Nov. 21, 2012

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APPENDIX I (External Photos) (3 Pages)

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TEST REPORT VERIFICATION

Applicant : Hame Technology Co., Limited
 Manufacturer : Hame Technology Co., Limited
 EUT : Wireless Router
 Model No. : A1, A1+, A1B, A1S, A1W, A2, A2B, A2S, A2W
 Rating : DC 5V From PC and DC 3.7V From Battery
 Trade Mark : 

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B 2011 & FCC / ANSI C63.4-2009

The device described above is tested by Anbotek Compliance Laboratory Limited To determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Anbotek Compliance Laboratory Limited Is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

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

Date of Test : Nov. 05 to 21, 2012

Prepared by : Barak Ban
(Engineer/ Barak Ban)

Reviewer : Andy chen
(Project Manager/ Andy Chen)

Approved & Authorized Signer : Tom. Chen
(Manager/ Tom Chen)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : Wireless Router

Model Number : A1, A1+, A1B, A1S, A1W, A2, A2B, A2S, A2W

Test Power Supply : DC 5V From PC and DC 3.7V From Battery

Applicant : Hame Technology Co., Limited

Address : 4F, Plant 1st, Huahan Industrial Park, Jinniu West Rd.,
Pingshan New District, Shenzhen, China.

Manufacturer : Hame Technology Co., Limited

Address : 4F, Plant 1st, Huahan Industrial Park, Jinniu West Rd.,
Pingshan New District, Shenzhen, China.

Date of Sample received : Nov. 05, 2012

Date of Test : Nov. 05 to 21, 2012

2. POWER LINE CONDUCTED MEASUREMENT

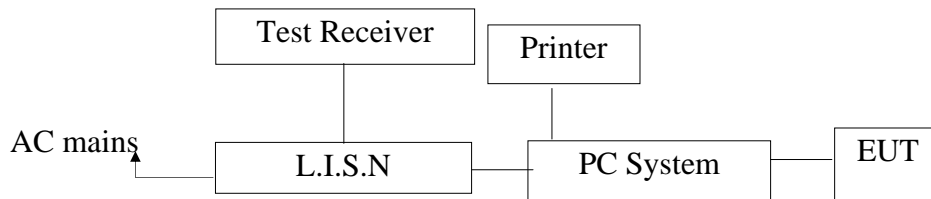
2.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Receiver	Rohde & Schwarz	ESCI	100627	Apr.25, 2012	1 Year
2.	Two-Line V-network	Rohde & Schwarz	ENV216	10055	Apr.25, 2012	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Apr.25, 2012	1 Year
4.	EMI Test Software	ES-K1	N/A	N/A	N/A	N/A

2.2. Block Diagram of Test Setup

2.2.1. Block diagram of connection between the EUT and simulators



2.3. Power Line Conducted Emission Measurement Limits (FCC Part 15

Class B)

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.

2.4. 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.

EUT : Wireless Router
Model Number : A1
Applicant : Hame Technology Co., Limited

2.5. Operating Condition of EUT

- 2.5.1. Setup the EUT and simulator as shown as Section 2.2.
- 2.5.2. Turn on the power of all equipment.
- 2.5.3. Let the EUT work measure it.

2.6. 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 C63.4-2009 on Conducted Emission Measurement.

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

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

The test result are reported on Section 2.7.

2.7. Power Line Conducted Emission Measurement Results

PASS.

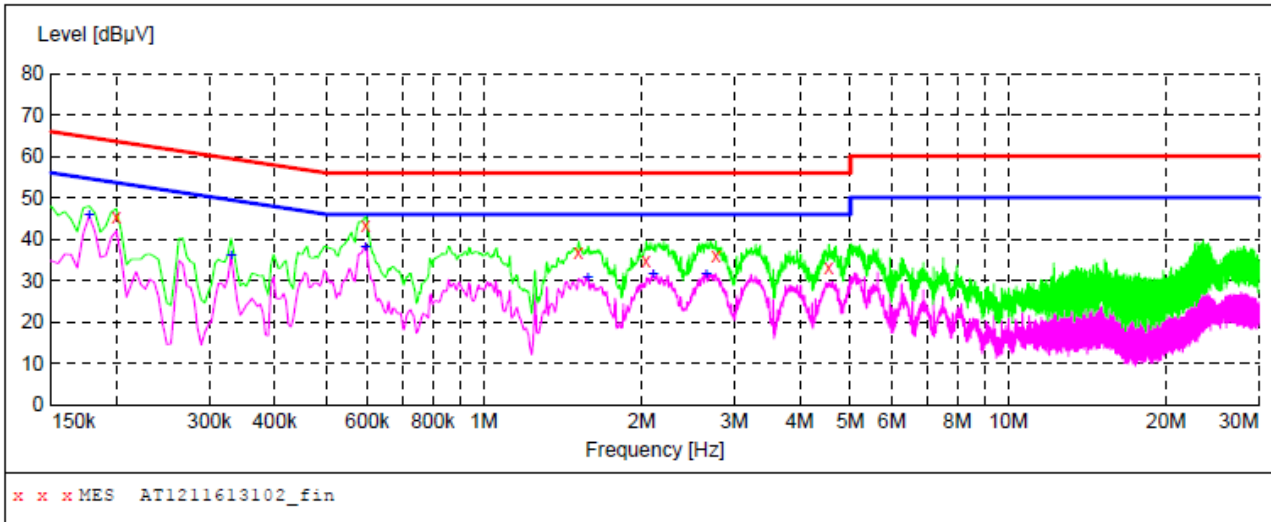
The frequency range from 150KHz to 30 MHz is investigated.

The test curves are shown in the following pages.

CONDUCTED EMISSION TEST DATA

EUT: Wireless Router M/N:A1
 Operating Condition: USB Playing
 Test Site: 1# Shielded Room
 Operator: Barak Ban
 Test Specification: DC 5V
 Comment: L
 Tem:25°C Hum:50%

SCAN TABLE: "Voltage(150K~30M) FIN"
 Short Description: 150K-30M Disturbance Voltages



MEASUREMENT RESULT: "AT1211613102_fin"

11/8/2012 10:01AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.199500	45.40	20.1	64	18.2	QP	L1	GND
0.595500	43.40	20.1	56	12.6	QP	L1	GND
1.517500	36.70	20.3	56	19.3	QP	L1	GND
2.039500	34.70	20.3	56	21.3	QP	L1	GND
2.773000	36.10	20.4	56	19.9	QP	L1	GND
4.546000	33.30	20.5	56	22.7	QP	L1	GND

MEASUREMENT RESULT: "AT1211613102_fin2"

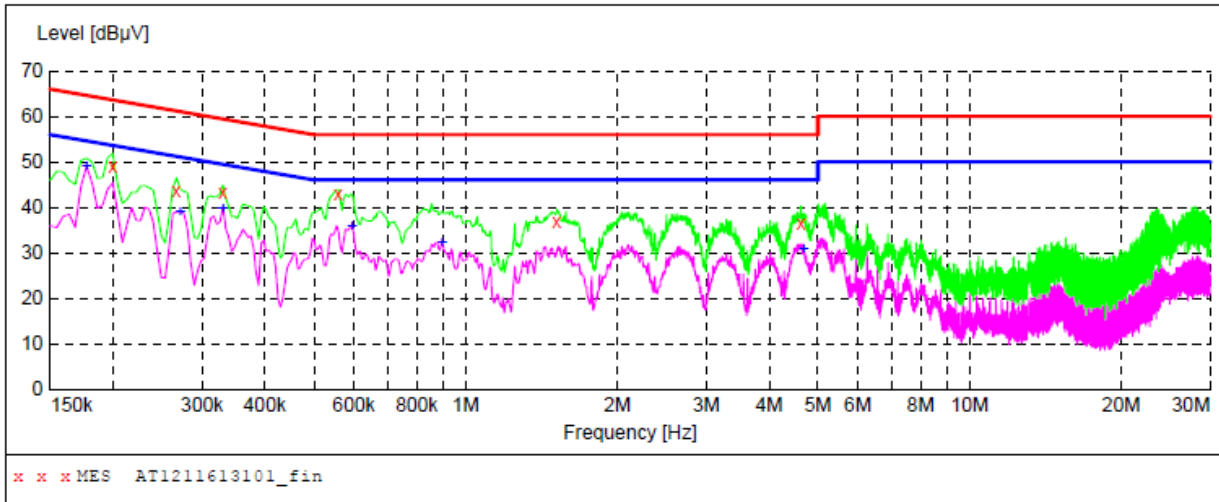
11/8/2012 10:01AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.177000	45.70	20.1	55	8.9	AV	L1	GND
0.330000	36.10	20.1	50	13.4	AV	L1	GND
0.595500	38.00	20.1	46	8.0	AV	L1	GND
1.580500	30.70	20.3	46	15.3	AV	L1	GND
2.102500	31.60	20.3	46	14.4	AV	L1	GND
2.656000	31.60	20.4	46	14.4	AV	L1	GND

CONDUCTED EMISSION TEST DATA

EUT: Wireless Router M/N:A1
 Operating Condition: USB Playing
 Test Site: 1# Shielded Room
 Operator: Barak Ban
 Test Specification: DC 5V
 Comment: N
 Tem:25°C Hum:50%

SCAN TABLE: "Voltage (150K~30M) FIN"
 Short Description: 150K-30M Disturbance Voltages



MEASUREMENT RESULT: "AT1211613101_fin"

11/8/2012 9:57AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.199500	48.90	20.1	64	14.7	QP	N	GND
0.267000	43.60	20.1	61	17.6	QP	N	GND
0.330000	43.40	20.1	60	16.1	QP	N	GND
0.559500	43.10	20.1	56	12.9	QP	N	GND
1.517500	36.80	20.3	56	19.2	QP	N	GND
4.622500	36.40	20.5	56	19.6	QP	N	GND

MEASUREMENT RESULT: "AT1211613101_fin2"

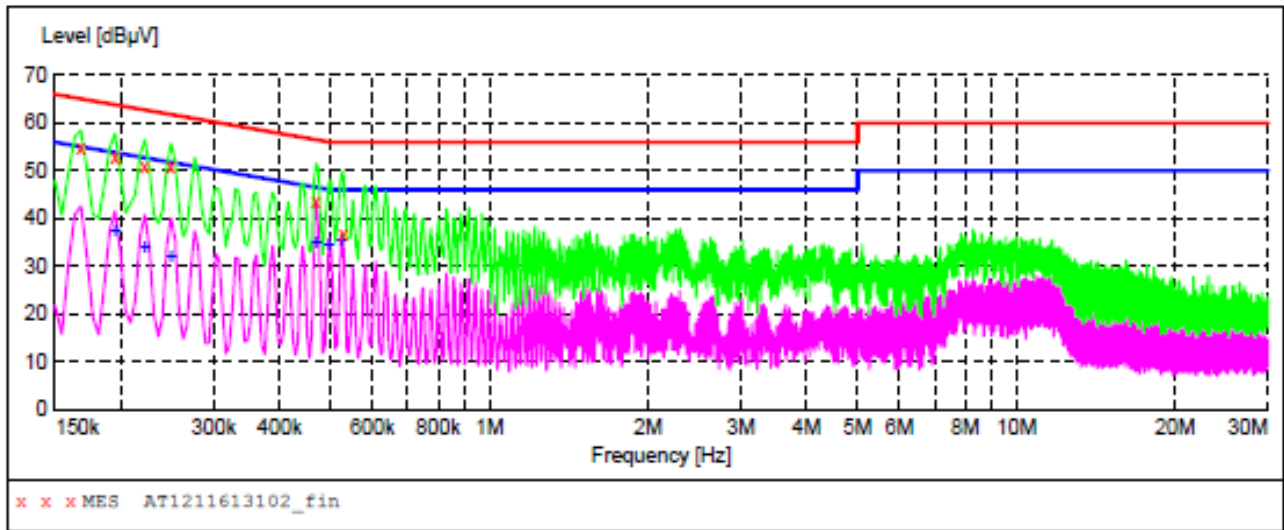
11/8/2012 9:57AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.177000	49.10	20.1	55	5.5	AV	N	GND
0.271500	39.00	20.1	51	12.1	AV	N	GND
0.330000	39.80	20.1	50	9.7	AV	N	GND
0.595500	35.80	20.1	46	10.2	AV	N	GND
0.897000	32.20	20.1	46	13.8	AV	N	GND
4.676500	30.70	20.5	46	15.3	AV	N	GND

CONDUCTED EMISSION TEST DATA

EUT: Wireless Router M/N:A1
 Operating Condition: RJ45 Port
 Test Site: 1# Shielded Room
 Operator: Barak Ban
 Test Specification: DC 5V
 Comment: L
 Tem:25°C Hum:50%

SCAN TABLE: "Voltage (150K~30M) FIN"
 Short Description: 150K-30M Disturbance Voltages



MEASUREMENT RESULT: "AT1211613102_fin"

12/8/2012 9:04AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.168000	55.00	20.1	65	10.1	QP	L1	GND
0.195000	53.00	20.1	64	10.8	QP	L1	GND
0.222000	51.00	20.1	63	11.7	QP	L1	GND
0.249000	51.00	20.1	62	10.8	QP	L1	GND
0.469500	43.70	20.1	57	12.8	QP	L1	GND
0.528000	36.70	20.1	56	19.3	QP	L1	GND

MEASUREMENT RESULT: "AT1211613102_fin2"

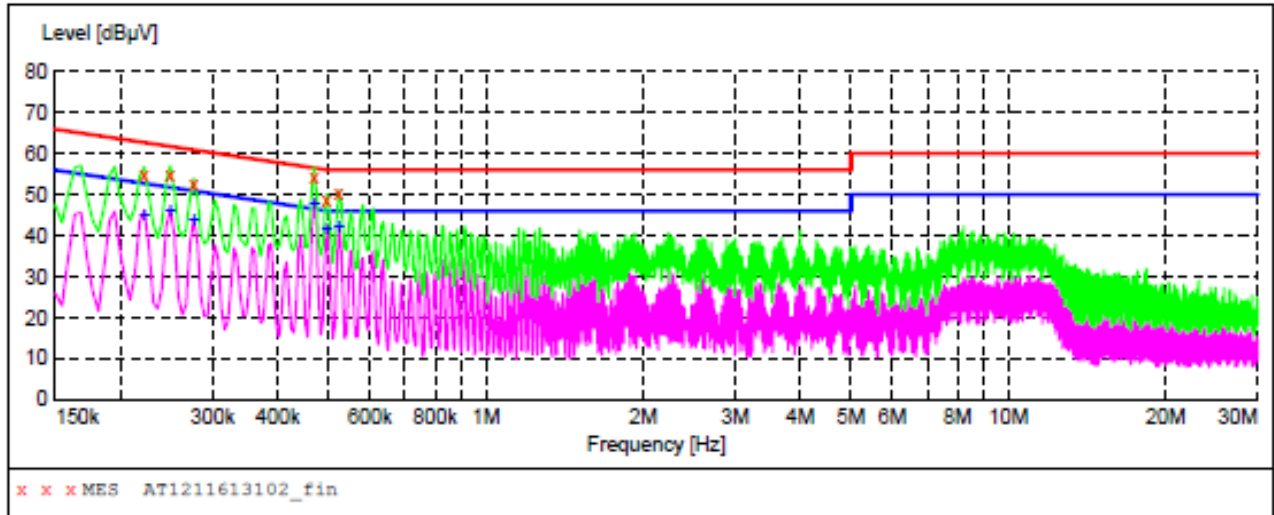
12/8/2012 9:04AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	37.60	20.1	54	16.2	AV	L1	GND
0.222000	34.20	20.1	53	18.5	AV	L1	GND
0.249000	32.50	20.1	52	19.3	AV	L1	GND
0.469500	35.50	20.1	47	11.0	AV	L1	GND
0.496500	34.90	20.1	46	11.2	AV	L1	GND
0.523500	35.70	20.1	46	10.3	AV	L1	GND

CONDUCTED EMISSION TEST DATA

EUT: Wireless Router M/N:A1
 Operating Condition: RJ45 Port
 Test Site: 1# Shielded Room
 Operator: Barak Ban
 Test Specification: DC 5V
 Comment: N
 Tem:25°C Hum:50%

SCAN TABLE: "Voltage (150K~30M) FIN"
 Short Description: 150K-30M Disturbance Voltages



MEASUREMENT RESULT: "AT1211613102_fin"

11/8/2012 9:07AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.222000	54.60	20.1	63	8.1	QP	N	GND
0.249000	54.90	20.1	62	6.9	QP	N	GND
0.276000	52.60	20.1	61	8.3	QP	N	GND
0.469500	54.30	20.1	57	2.2	QP	N	GND
0.496500	48.90	20.1	56	7.2	QP	N	GND
0.523500	50.30	20.1	56	5.7	QP	N	GND

MEASUREMENT RESULT: "AT1211613102_fin2"

11/8/2012 9:07AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.222000	45.40	20.1	53	7.3	AV	N	GND
0.249000	46.50	20.1	52	5.3	AV	N	GND
0.276000	44.10	20.1	51	6.8	AV	N	GND
0.469500	48.30	20.1	47	-1.8	AV	N	GND
0.496500	42.30	20.1	46	3.8	AV	N	GND
0.523500	42.70	20.1	46	3.3	AV	N	GND

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

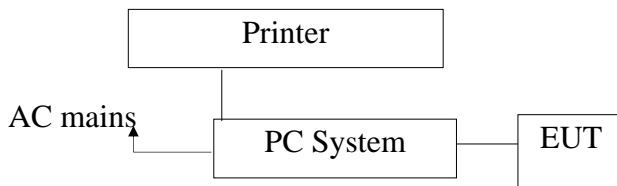
The following test equipments are used during the radiated emission measurement:

3.1.1. For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESCI	101604	Apr.25, 2012	1 Year
2.	Bilog Antenna	Schwarzbeck	VULB9163	100015	Apr.25, 2012	1 Year
3.	Pre-amplifier	Compliance Direction	PAP-0203	22008	Apr.25, 2012	1 Year
4.	EMI Test Software	SHURPLE	N/A	N/A	N/A	N/A
5.	Coaxial cable	ANBOTEK	N/A	N/A	N/A	N/A

3.2. Block Diagram of Test Setup

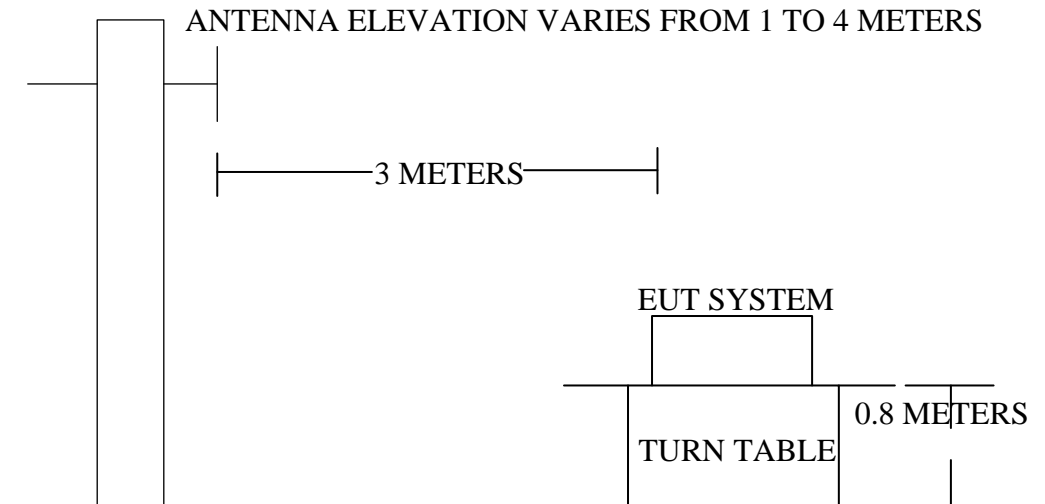
3.2.1. Block diagram of connection between the EUT and simulators



(EUT: Wireless Router)

3.2.2. Anechoic Chamber Test Setup Diagram

ANTENNA TOWER



(EUT: Wireless Router)

3.3. Radiated Emission Limit (Subpart B Class B)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30~88	3	100	40.0
88~216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0

- Remark :
- (1) Emission level $(\text{dB})\mu\text{V} = 20 \log \text{Emission level } \mu\text{V}/\text{m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.4. EUT Configuration on Measurement

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

EUT : Wireless Router
 Model Number : A1
 Applicant : Hame Technology Co., Limited

3.5. Operating Condition of EUT

3.5.1. Setup the EUT as shown in Section 3.2.

3.5.2. Let the EUT work measure it.

3.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (Trilog Broadband Antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission measurement.

The bandwidth of the EMI test receiver (ESPI) is set at 120kHz.

The frequency range from 30MHz to 1000MHz is checked.

The test mode (USB Charging and Playing) is tested in chamber and all the test

results are listed in Section 3.7.

3.7. Radiated Emission Measurement Results

PASS.

The test curves are shown in the following pages.

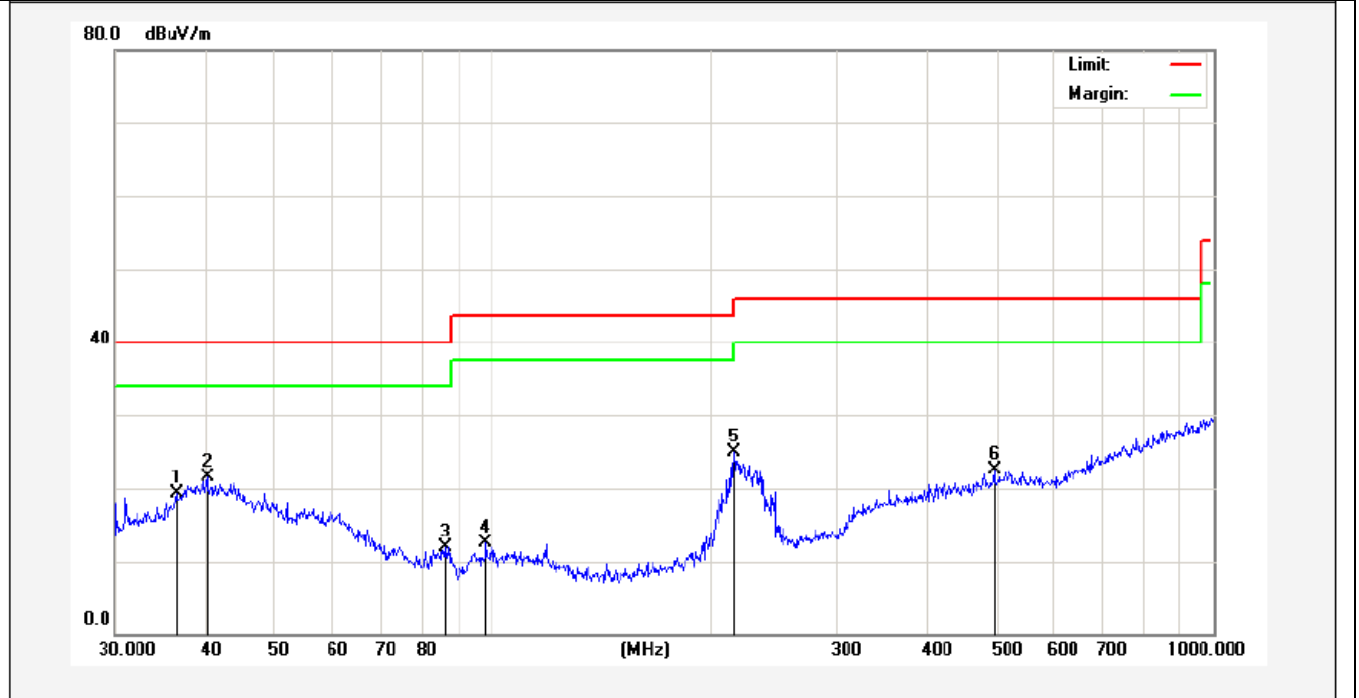


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Job No.:	AT1211613F	Polarziation:	Horizontal
Standard:	(RE)FCC PART15 B _3m	Power Source:	DC 5V
Test item:	Radiation Test	Date:	2012/11/06
Temp.(C)/Hum.(%RH):	24.3(C)/55%RH	Time:	11:06:24
EUT:	Wireless Router	Test By:	Barak Ban
Model:	A1	Distance:	3m
Note:	USB Playng		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	36.5092	32.32	-13.11	19.21	40.00	-20.79	peak			
2	40.2757	31.96	-10.48	21.48	40.00	-18.52	peak			
3	85.8984	32.68	-20.79	11.89	40.00	-28.11	peak			
4	97.7983	33.33	-20.88	12.45	43.50	-31.05	peak			
5	216.0240	45.17	-20.27	24.90	46.00	-21.10	peak			
6	495.9344	33.60	-11.06	22.54	46.00	-23.46	peak			



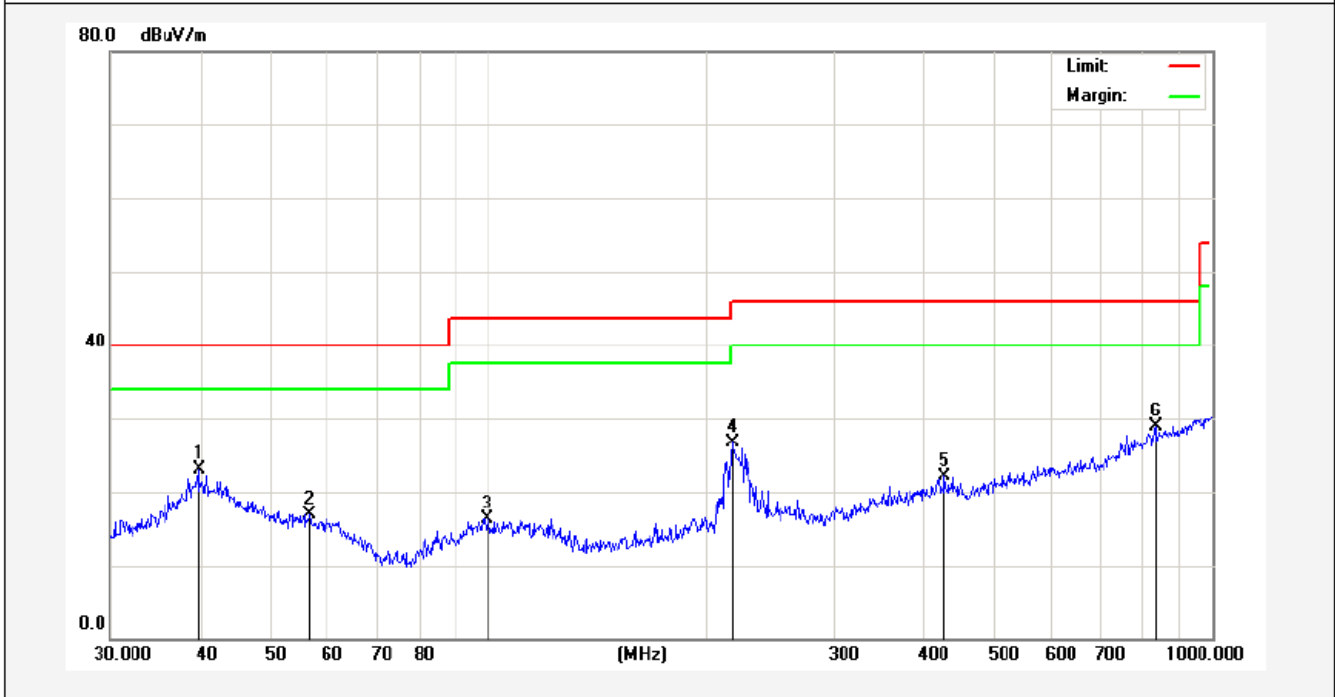
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Job No.:	AT1211613F	Polarziation:	Vertical
Standard:	(RE)FCC PART15 B _3m	Power Source:	DC 5V
Test item:	Radiation Test	Date:	2012/11/06
Temp.(C)/Hum.(%RH):	24.3(C)/55%RH	Time:	11:11:28
EUT:	Wireless Router	Test By:	Barak Ban
Model:	A1	Distance:	3m

Note: USB Playng



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.7146	33.62	-10.59	23.03	40.00	-16.97	peak			
2	56.5929	32.00	-15.08	16.92	40.00	-23.08	peak			
3	99.5281	32.05	-15.79	16.26	43.50	-27.24	peak			
4	216.7828	42.03	-15.23	26.80	46.00	-19.20	peak			
5	426.5210	33.37	-11.25	22.12	46.00	-23.88	peak			
6	833.3171	33.83	-4.90	28.93	46.00	-17.07	peak			



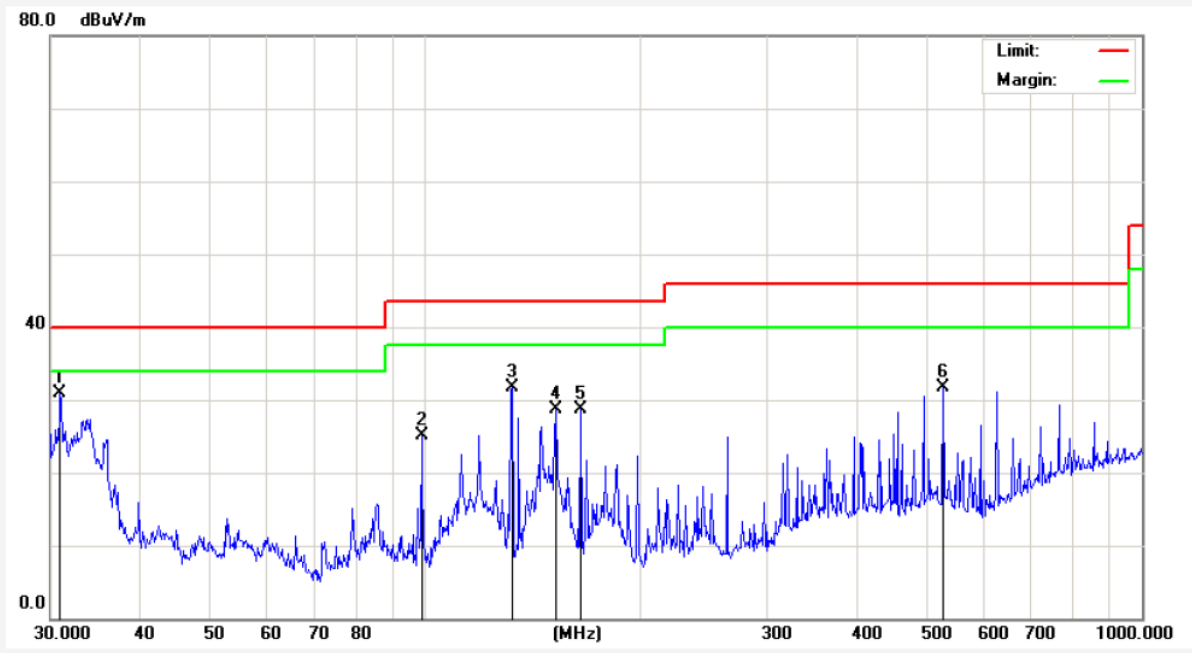
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Tel: (86)755-26066544
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Http://www.anbotek.com

Job No.:	AT1211613F	Polarziation:	Horizontal
Standard:	(RE)FCC PART15 B _3m	Power Source:	DC 3.7V
Test item:	Radiation Test	Date:	2012/11/06
Temp.(C)/Hum.(%RH):	24.3(C)/55%RH	Time:	11:26:28
EUT:	Wireless Router	Test By:	Barak Ban
Model:	A1	Distance:	3m

Note: ON



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.9619	58.55	-27.62	30.93	40.00	-9.07	peak			
2	98.8326	56.97	-31.78	25.19	43.50	-18.31	peak			
3	132.2206	65.32	-33.68	31.64	43.50	-11.86	peak			
4	152.1297	62.48	-33.86	28.62	43.50	-14.88	peak			
5	164.9075	62.04	-33.27	28.77	43.50	-14.73	peak			
6	528.2458	53.46	-21.71	31.75	46.00	-14.25	peak			

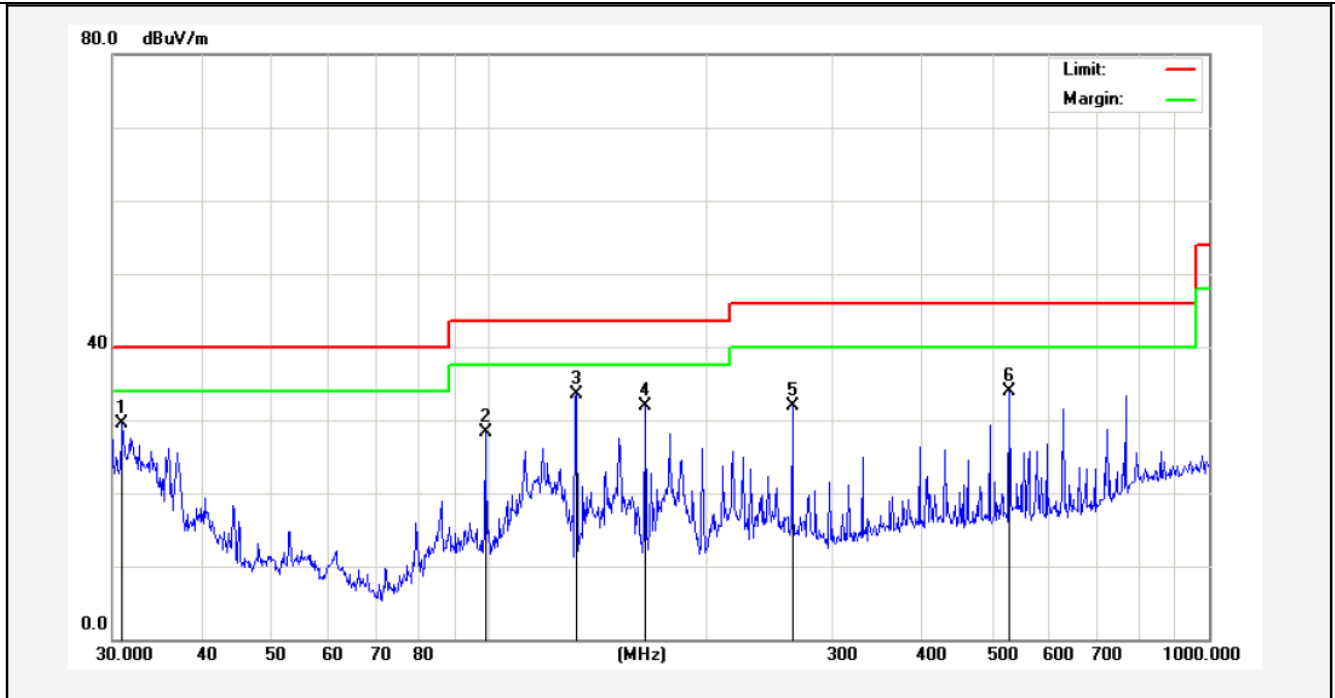


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Job No.:	AT1211613F	Polarziation:	Vertical
Standard:	(RE)FCC PART15 B _3m	Power Source:	DC 3.7V
Test item:	Radiation Test	Date:	2012/11/06
Temp.(C)/Hum.(%RH):	24.3(C)/55%RH	Time:	11:31:28
EUT:	Wireless Router	Test By:	Barak Ban
Model:	A1	Distance:	3m
Note:	ON		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.9619	57.10	-27.62	29.48	40.00	-10.52	peak			
2	98.8326	55.05	-26.78	28.27	43.50	-15.23	peak			
3	132.2206	62.14	-28.68	33.46	43.50	-10.04	peak			
4	164.9075	60.22	-28.27	31.95	43.50	-11.55	peak			
5	263.8190	56.10	-24.26	31.84	46.00	-14.16	peak			
6	528.2458	55.02	-21.14	33.88	46.00	-12.12	peak			



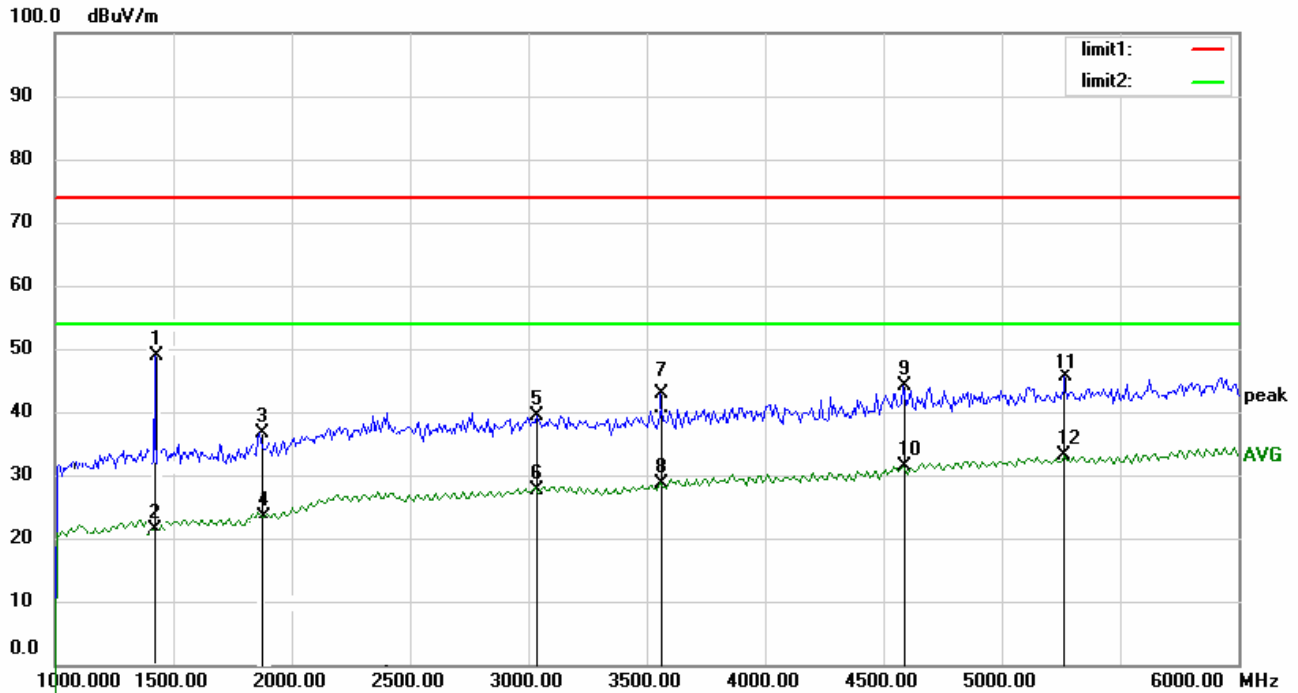
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Job No.:	AT1211613F	Polarziation:	Horizontal
Standard:	(RE)FCC PART15 B _3m	Power Source:	DC 3.7V
Test item:	Radiation Test	Date:	2012/11/07
Temp.(C)/Hum.(%RH):	24.3(C)/55%RH	Time:	9:29:58
EUT:	Wireless Router	Test By:	Well Wang
Model:	A1	Distance:	3m

Note:



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector
1	1416.289	51.27	-8.73	42.08	74.00	-31.92	peak
2	1416.289	37.40	-8.73	28.63	54.00	-25.37	AVG
3	1883.159	46.60	-8.16	38.44	74.00	-35.56	peak
4	1883.159	34.12	-8.16	25.96	54.00	-28.04	AVG
5	3037.467	47.57	-7.24	40.33	74.00	-33.67	peak
6	3037.467	36.24	-7.24	29.00	54.00	-25.00	AVG
7	3571.762	48.00	-6.54	41.46	74.00	-32.54	peak
8	3571.762	36.41	-6.54	29.87	54.00	-24.13	AVG
9	4580.579	47.25	-4.97	42.28	74.00	-31.72	peak
10	4580.579	36.19	-4.97	31.22	54.00	-22.78	AVG
11	5264.274	48.10	-3.17	44.83	74.00	-29.17	peak
12	5264.274	36.28	-3.17	33.11	54.00	-20.89	AVG



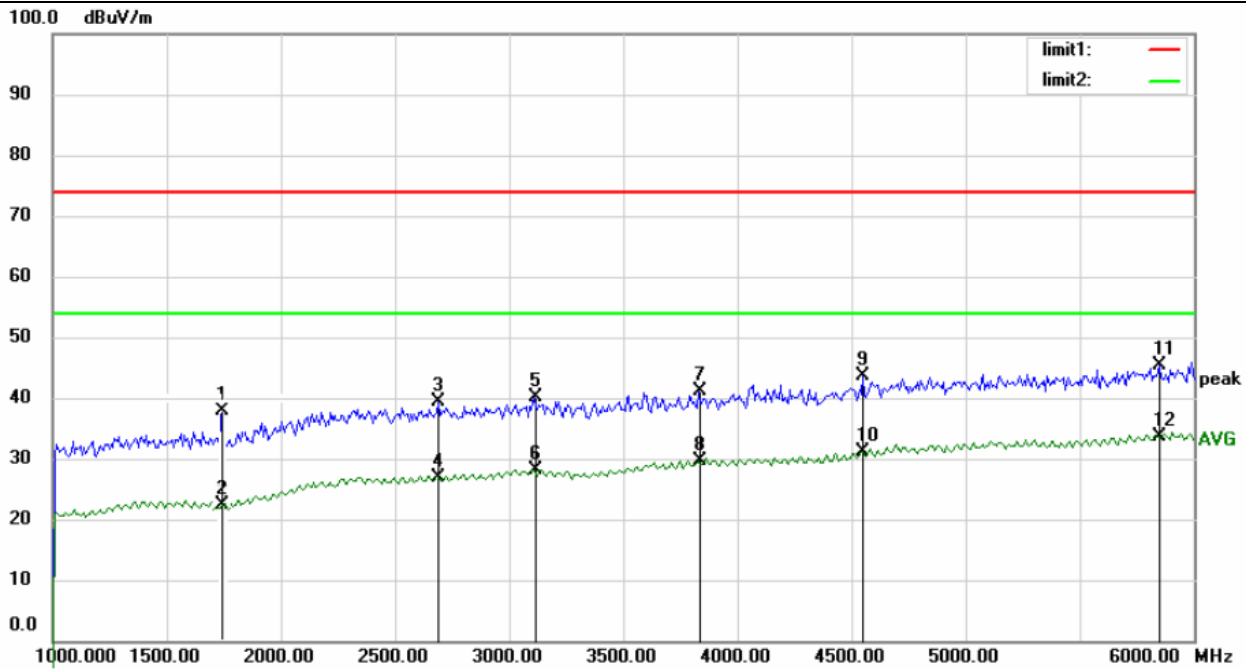
Anbotek Compliance Laboratory Limited

1/F, 1 /Building, SEC Industrial Park, No.4 Qianhai Road,
Nanshan District, Shenzhen, 518054, China

Tel: (86)755-26014771
Fax: (86)755-26014772
Http://www.anbotek.com

Job No.:	AT1211613F	Polarziation:	Vertical
Standard:	(RE)FCC PART15 B _3m	Power Source:	DC 3.7V
Test item:	Radiation Test	Date:	2012/11/07
Temp.(C)/Hum.(%RH):	24.3(C)/55%RH	Time:	9:32:20
EUT:	Wireless Router	Test By:	Well Wang
Model:	A1	Distance:	3m

Note:



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector
1	1756.231	49.27	-8.73	40.05	74.00	-33.95	peak
2	1756.231	35.46	-8.73	26.73	54.00	-27.27	AVG
3	2683.553	49.60	-8.16	41.44	74.00	-32.56	peak
4	2683.553	34.12	-8.16	25.96	54.00	-28.04	AVG
5	3110.357	49.61	-7.24	42.37	74.00	-31.63	peak
6	3110.357	38.24	-7.24	31.00	54.00	-23.00	AVG
7	3831.761	49.90	-6.54	43.36	74.00	-30.64	peak
8	3831.761	37.41	-6.54	30.87	54.00	-23.13	AVG
9	4540.521	47.25	-4.97	42.28	74.00	-31.72	peak
10	4540.521	36.20	-4.97	31.23	54.00	-22.77	AVG
11	5854.248	48.02	-3.17	44.85	74.00	-29.15	peak
12	5854.248	36.18	-3.17	33.01	54.00	-20.99	AVG

4. PHOTOGRAPH

4.1. Photo of Power Line Conducted Emission Test

USB Port

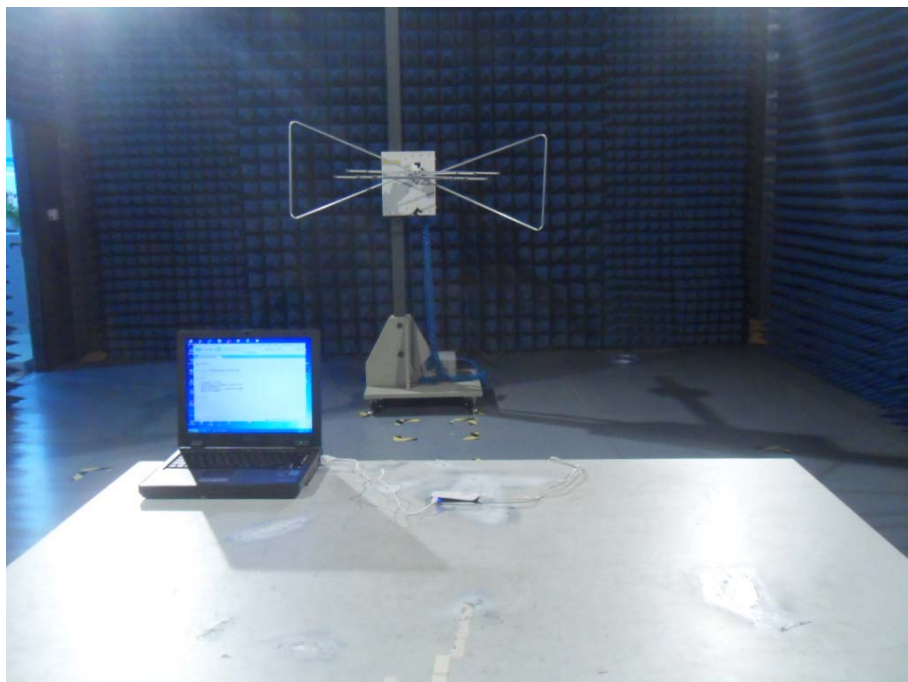
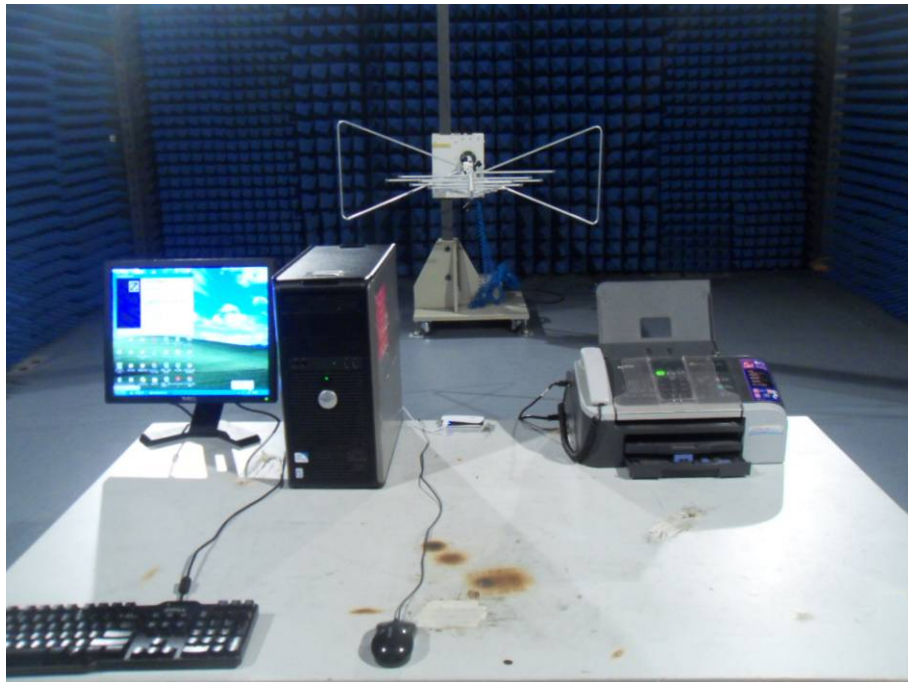


RJ45 port



4.2. Photo of Radiated Emission Test

Below 1G



Above 1G



Appendix I (External Photos)

Figure 1
The EUT-Overall View



Figure 2
The EUT-Back View



Figure 3
The EUT-Side View



Figure 4
The EUT-Side View



Figure 5
The EUT-Side View



Figure 6
The EUT-Side View



Appendix II (Internal Photos)

Figure 7
The EUT-Inside View

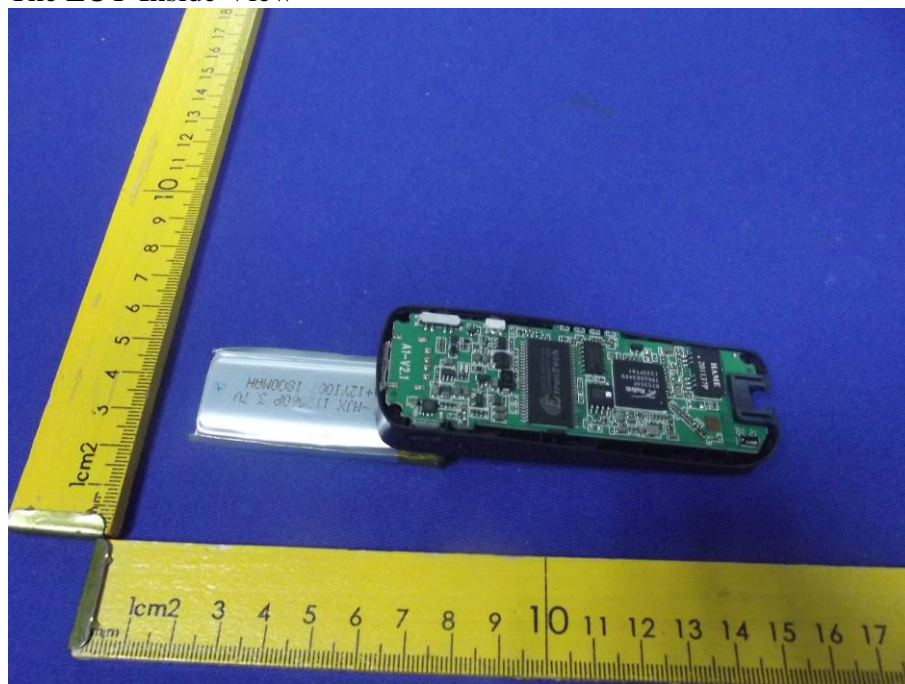


Figure 8
PCB of the EUT-Front View

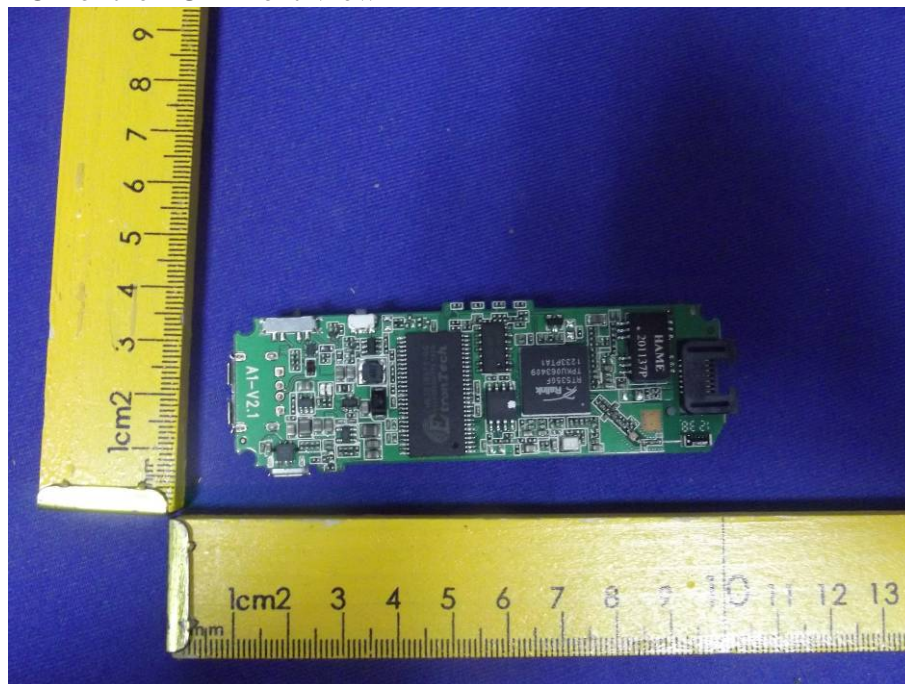


Figure 9
PCB of the EUT-Front View

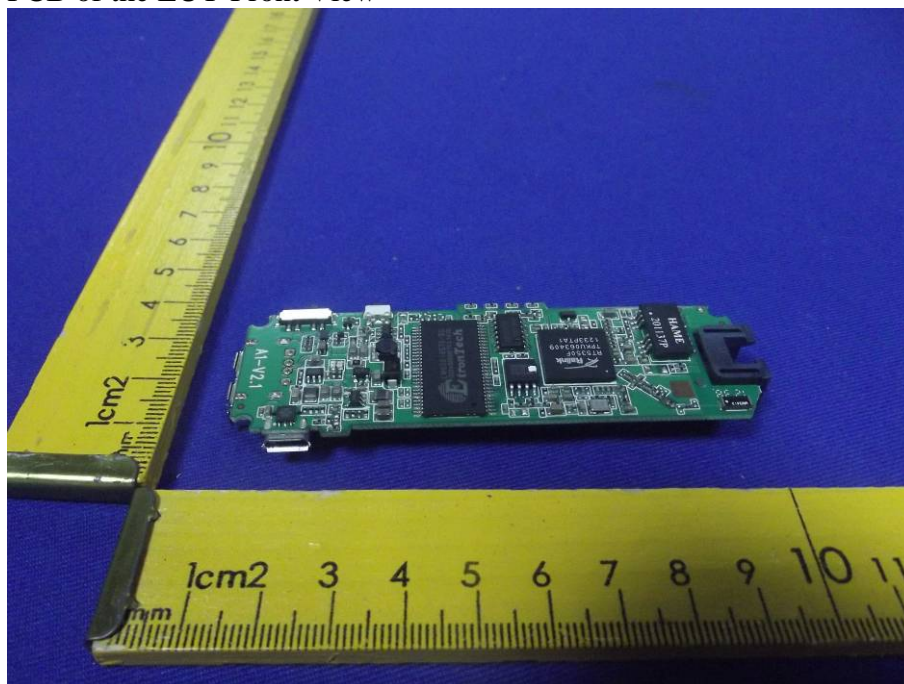


Figure 10
PCB of the EUT-Back View

