EMC Test Report

Applicant	:	EDIMAX TECHNOLOGY CO., LTD.
Product Type	:	11ac Wireless Dual-Band Selectable USB Adapter
Trade Name	:	EDIMAX
Model Number	:	EW-7822UNC, EW-7822ULC
Applicable Standard	:	FCC 47 CFR PART 15 SUBPART B ANSI C63.4: 2014
Receive Date	:	Jul. 27, 2016
Test Period	:	Aug. 16~ Dec. 02, 2016
Issue Date	:	Dec. 20, 2016

Issue by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade District,
Taoyuan City 33465, Taiwan (R.O.C)
Tel：+886-3-2710188 / Fax：+886-3-2710190

Taiwan Accreditation Foundation accreditation number: 1330

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	Dec. 20, 2016	Initial Issue	Janice Huang

Verification of Compliance

Issued Date: Dec. 20, 2016

Applicant	:	EDIMAX TECHNOLOGY CO., LTD.
Product Type	:	11ac Wireless Dual-Band Selectable USB Adapter
Trade Name	:	EDIMAX
Model Number	:	EW-7822UNC, EW-7822ULC
EUT Rated Voltage	:	DC 5V
Test Voltage	:	120 Vac / 60 Hz
Applicable Standard	:	FCC 47 CFR PART 15 SUBPART B ANSI C63.4: 2014
Test Result	:	Complied
Performing Lab.	:	A Test Lab Techno Corp. No. 140-1, Changan Street, Bade District, Taoyuan City 33465, Taiwan (R.O.C) Tel：+886-3-2710188 / Fax：+886-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330 http://www.atl-lab.com.tw/e-index.htm

The above equipment has been tested by A Test Lab Techno Corp., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved By	:	Misty Wu	Reviewed By	:	Terry Liao
(Manager)		(Misty Wu)	(Testing Engineer)		(Terry Liao)

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1 General Information

1.1. Summary of Test Result

Emission			
Standard	Item	Verdict	Remark
FCC 47 CFR PART 15 SUBPART B ANSI C63.4	Conducted Emission	PASS	Meet Class B limit
FCC 47 CFR PART 15 SUBPART B ANSI C63.4	Radiated Emission	PASS	Meet Class B limit

The test results of this report was related only to the tested sample(s) identified in this report. Manufacturer or whom it may concern should recognize the pass or fail of the test result.

1.2. Testing Location

Site Name: A Test Lab Techno Corp.
http://www.atl-lab.com.tw/e-index.htm
Site Address: No. 140-1, Changan Street, Bade District, Taoyuan City 33465, Taiwan (R.O.C)
Tel：+886-3-2710188
Fax：+886-3-2710190

1.3. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty (dB)
Conducted Emission	AC Power Port	9kHz ~ 150kHz	2.7
		150kHz ~ 30MHz	2.7

Test Item	Test Site	Frequency Range		Uncertainty (dB)
Radiated Emission	TE06	30MHz ~ 1000MHz	Horizontal	5.6
			Vertical	6.0
	TE01	1000MHz ~ 6000MHz		5.2
		6000MHz ~ 18000MHz		5.5
		18000MHz ~ 26500MHz		4.8
		26500MHz ~ 40000MHz		4.8
	TE09	1000MHz ~ 6000MHz		4.9
		6000MHz ~ 18000MHz		5.3
		18000MHz ~ 26500MHz		4.5
		26500MHz ~ 40000MHz		4.8
Note: The Vertical and Horizontal measurement uncertainty of 1GHz to 40GHz is evaluated and choose which polarity is worst value.				

1.4. Test Site Environment

Test Item	Test Date	Items	Required (IEC 60068-1)	Actual
Conducted Emission	08/16/2016	Temperature (°C)	15-35	26
		Humidity (%RH)	25-75	60
		Barometric pressure (mbar)	860-1060	950
Radiated Emission	08/16/2016	Temperature (°C)	15-35	26
		Humidity (%RH)	25-75	60
		Barometric pressure (mbar)	860-1060	950

2 EUT Description

Applicant	EDIMAX TECHNOLOGY CO., LTD. No.3,Wu-Chuan 3rd Road,Wu-Ku Industrial Park, New Taipei City, Taiwan
Manufacturer	EDIMAX TECHNOLOGY CO., LTD. No.3,Wu-Chuan 3rd Road,Wu-Ku Industrial Park, New Taipei City, Taiwan
Product Type	11ac Wireless Dual-Band Selectable USB Adapter
Trade Name	EDIMAX
Model Number	EW-7822UNC, EW-7822ULC
Models different description	Those model numbers differ from each other in selling region.
Highest Operating Frequency	5850MHz

I/O Port Description：

I/O Port Types	Q'TY	Test Description
1). USB Port	1	Connect to Notebook

3 Test Methodology

3.1. Decision of Test Mode

3.1.1. The following test mode(s) were scanned during the preliminary test:

Pre-Test Mode
Mode 1 : Idle mode
Mode 2 : Wi-Fi link mode

3.1.2. After the preliminary scan, the following test mode was final mode and found to produce the highest emission level.

Final Test Mode			
Emission	Conducted Emission		Mode 2
	Radiated Emission	Below 1GHz	Mode 2
		Above 1GHz	Mode 2

The above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.

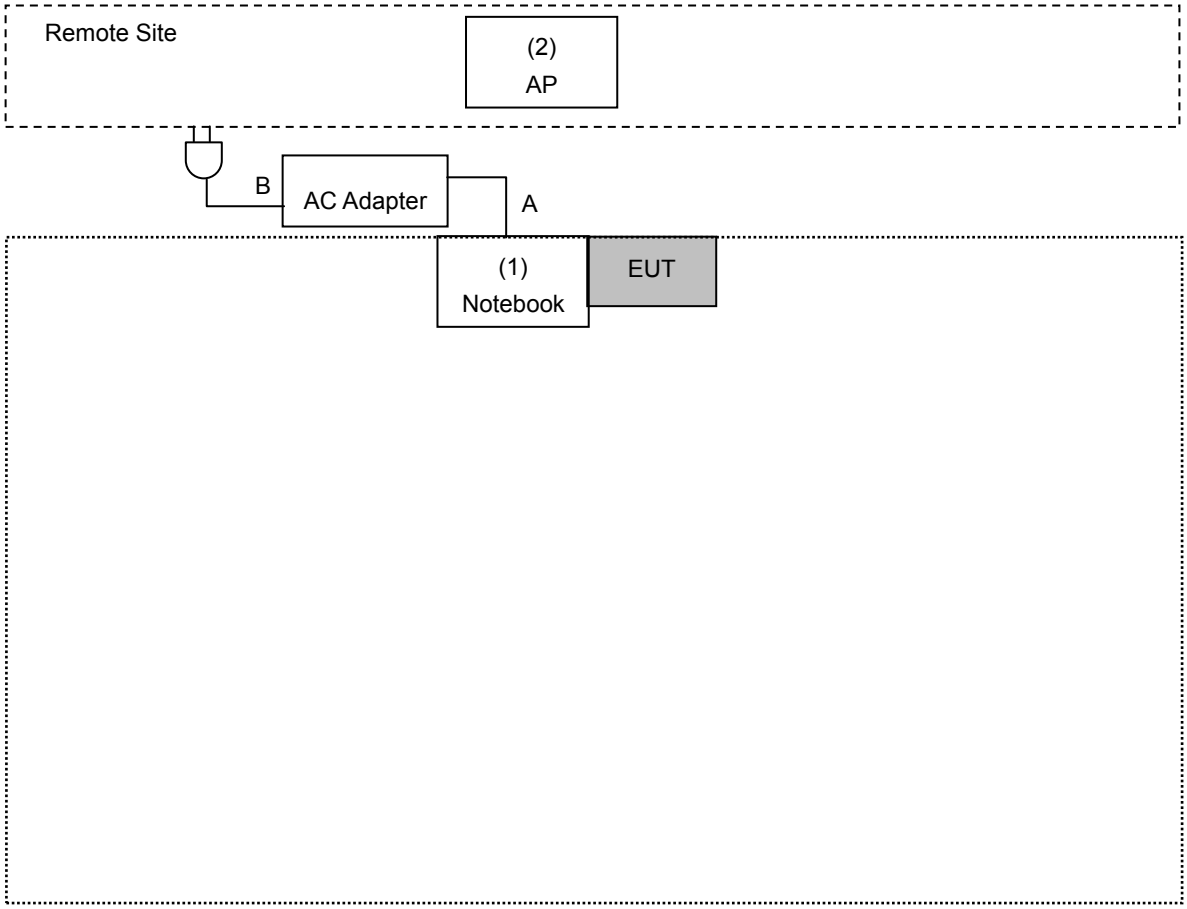
3.2. EUT Exercise Software

1	Setup the EUT and simulators as shown on 3.3.
2	Turn on the power of all equipment.
3	Notebook link to AP by EUT.
4	Data will be communicated between Notebook and AP through EUT.
5	Start to test and get the worst reading.

Measurement Software			
No.	Description	Software	Version
1	Conducted Emission	EZ EMC	ATL-ITC-3A1-1
2	Radiated Emission _ Below 1GHz	EZ EMC	ATL-03A1-1
3	Radiated Emission _ Above 1GHz	EZ EMC	ATL-03A1

3.3. Configuration of Test System Details

Mode 2



Signal Cable Type		Signal Cable Description
A	DC Power Cable	Non-Shielded, 1.8m
B	AC Power Cable	Non-Shielded, 1.8m

Devices Description					
Product		Manufacturer	Model Number	Serial Number	Power Cord
(1)	Notebook	DELL	LAPTITU	25627158361	Non-Shielded, 1.8m
(2)	AP	ASUS	MSQ-RTAC66U	D1IAGG000126	Non-Shielded, 1.8m

3.4. Test Instruments

Conducted Emission test site					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Test Receiver	R&S	ESCI	100367	05/31/2016	1 year
LISN	R&S	ENV216	101040	03/15/2016	1 year
LISN	R&S	ENV216	101041	03/07/2016	1 year
Test Site	ATL	TE02	TE02	N.C.R.	-----

10 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Amplifier	EMCI	EMC9135	980298	02/14/2016	1 year
Amplifier	EMCI	EMC9135	980299	02/14/2016	1 year
Test Receiver	R&S	ESCI	100722	10/29/2015	1 year
Test Receiver	R&S	ESCI	101000	12/07/2015	1 year
Broadband Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	670	02/19/2016	1 year
Broadband Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	671	02/19/2016	1 year
Test Site	ATL	TE06	TE06	08/28/2016	1 year

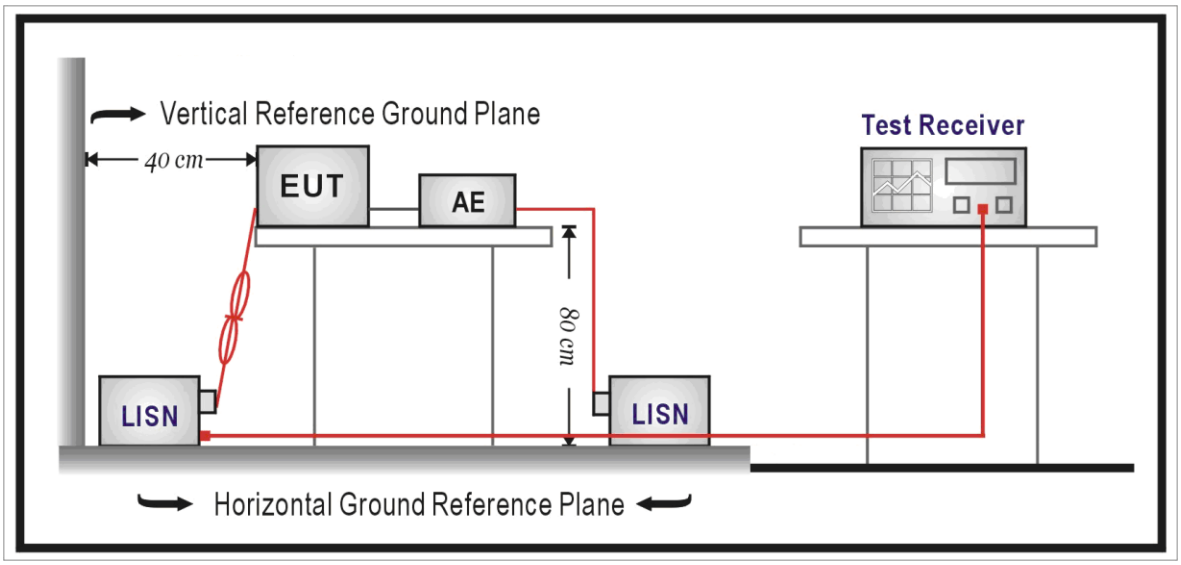
3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
Spectrum Analyzer	Agilent	E4445A	MY46181986	05/19/2016	1 year
Pre Amplifier	Agilent	8447D	2944A11120	12/31/2015	1 year
Amplifier	Agilent	8449B	3008A02237	10/07/2015	1 year
Pre Amplifier	EMCI	EMC012645SE	980289	12/09/2015	1 year
Pre Amplifier	EMCI	EMC2654045	980028	08/15/2016	1 year
RF Pre-selector	Agilent	N9039A	MY46520255	05/19/2016	1 year
Double Ridged Horn Antenna (1~18GHz)	ETS	3117	00152321	08/14/2016	1 year
Pre-Amplifier	ETS	3117-PA	00165297	03/18/2016	1 year
Broadband Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	419	10/27/2015	1 year
Test Site	ATL	TE09	TE09	08/28/2016	1 year

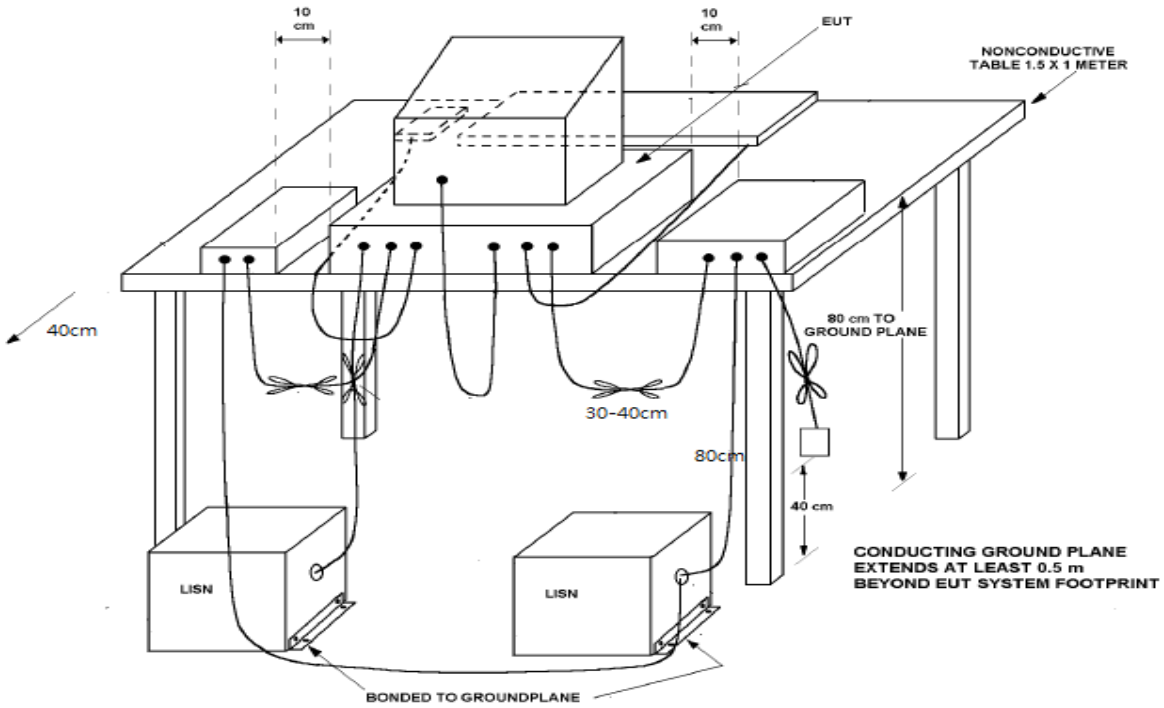
Note: N.C.R. = No Calibration Request.

4 Measurement Procedure

4.1. Conducted Emission

■ **Test Setup**





■ Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50Ω // 50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50Ω // 50uH coupling impedance with 50ohm termination.

Tabletop device shall be placed on a non-conducting platform, of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The wall of screened room shall be located 40cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80cm from any other ground conducting surface including one or more LISNs. For floor-standing device shall be placed under the EUT with a 12mm insulating material.

Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a resolution bandwidth of 9 kHz. The equipment under test (EUT) shall be meet the limits in section 4.1.1, as applicable, including the average limit and the quasi-peak limit when using respectively, an average detector and quasi-peak detector measured in accordance with the methods described of related standard. When all of peak value were complied with quasi-peak and average limit from 150kHz to 30MHz then quasi-peak and average measurement was unnecessary.

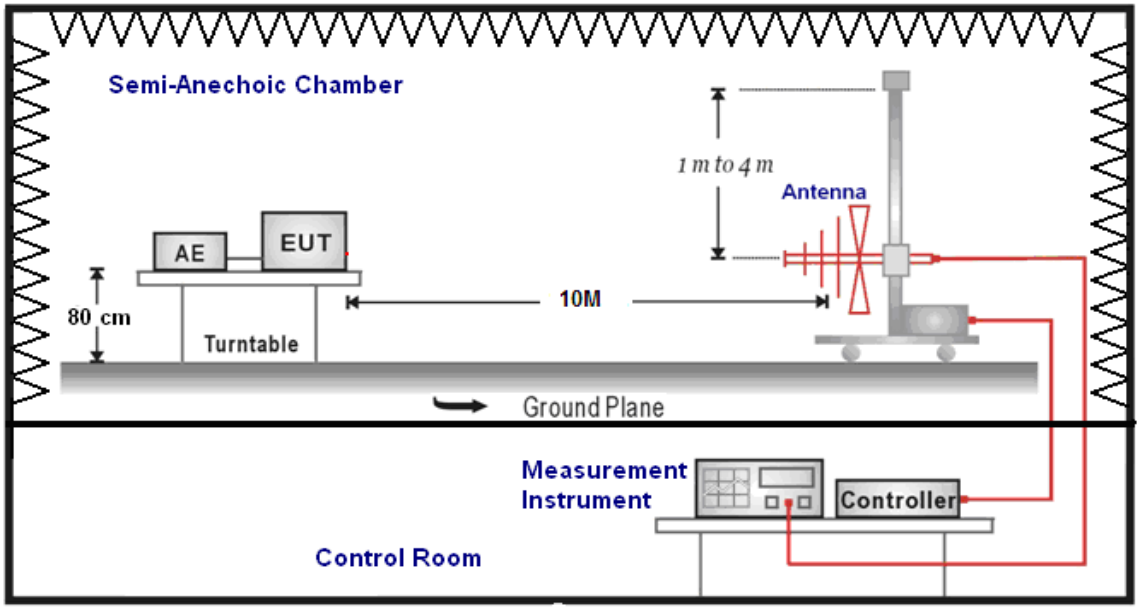
The AMN shall be placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0,8 m from the AMN. If the mains power cable is longer than 1m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4m. All of interconnecting cables that hang closer than 40cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1m. All 50 Ω ports of the LISN shall be resistively terminated into 50 Ω loads when not connected to the measuring instrument.

If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored.

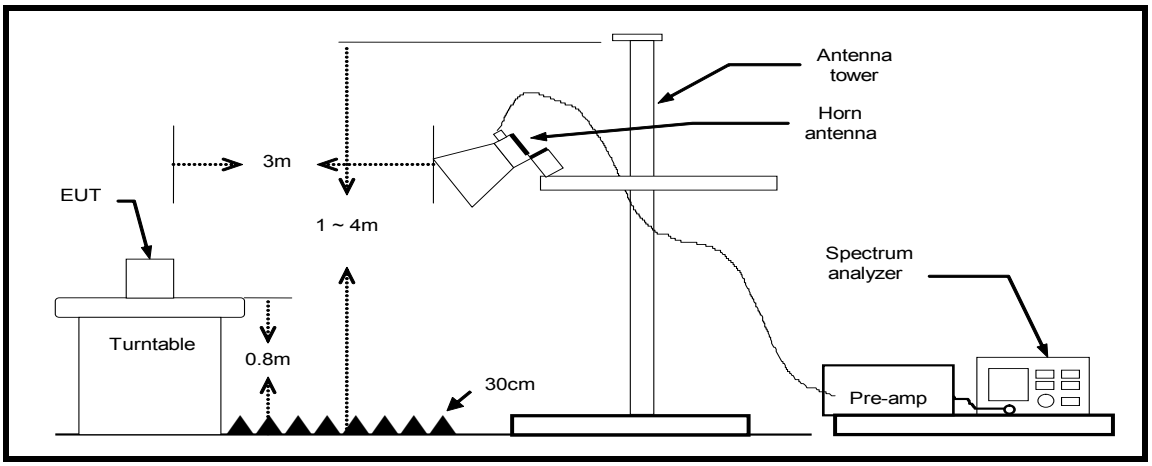
4.2. Radiated Emission

■ **Test Setup**

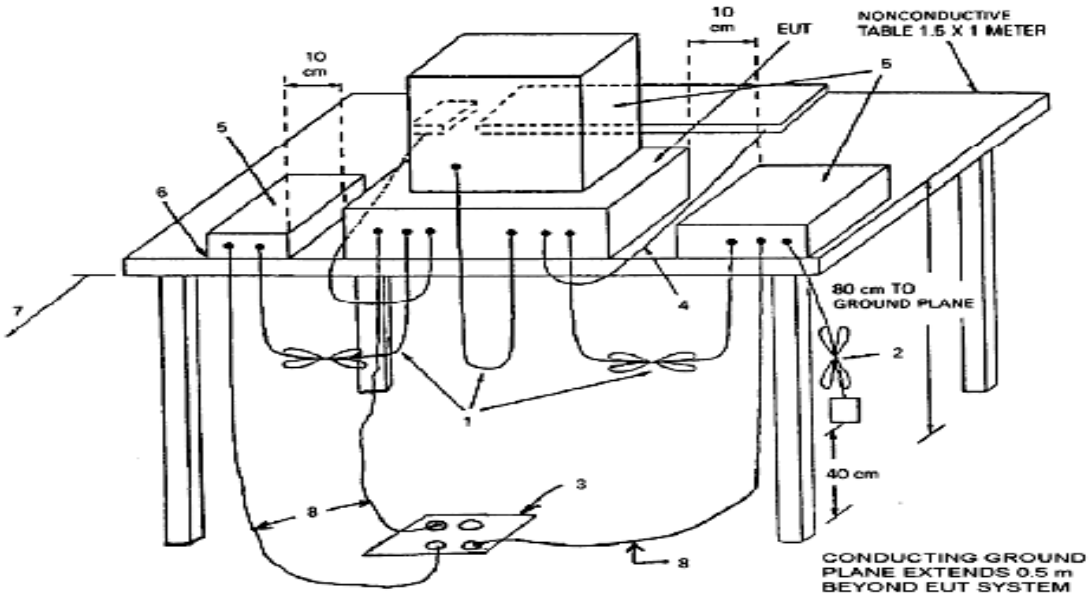
Below 1GHz



Above 1GHz



Test arrangement for radiated emissions of tabletop equipment.



■ Test Procedure

Below 1GHz

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. When the EUT is floor-standing equipment, it is placed on the ground plane which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.

The turn table is 0.8m height and 2.0m wide x 1.0m deep size. It can rotate 360 degrees to determine the position of the maximum emission level. The spcing between the each equipment was 10cm. The mains cables are dropped to floor and are round to recepatacle. Interconnecting cables of table top equipment that hang closer than 0.4m to the ground plane are folded back and forth forming a bundle 0.3m to 0.4m long, hanging approximately in the middle between ground plane and table. The EUT was positioned such that the distance from antenna to the EUT was 10 meters and the receive antenna was moved from 1m to 4m to investigate maximum highest emission at least 6 points over the frequency range from 30MHz to1GHz using a resolution bandwidth of 120 kHz and measured by the quasi-peak detector.

According to this standard paragraph 15.109, as an alternative to the radiated emission limits, digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, “Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement”.

Above 1GHz

The Setup is same as Below 1GHz placement. The turn table is 0.8m height and 1.8m wide x 1.0m deep size.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meter for above 1GHz, the highest frequency performed according to internal source frequency of the EUT, the specification was below:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

Absorber shall be spread between floor of a turn table and a receive antenna shown in 4.2.3. The antenna used boresight antenna master from 1 meter and 4 meters to find out the maximum emission level and find the highest emission at least 6 points. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

Radiated emissions were applied to above 1GHz using a resolution bandwidth of 1MHz and measured by the peak and average detector which antenna to the EUT distance was 3meters. If the EUT was meet both limits and measurement with the average detector receiver is unnecessary.

5 Test Results

5.1. Conducted Emission

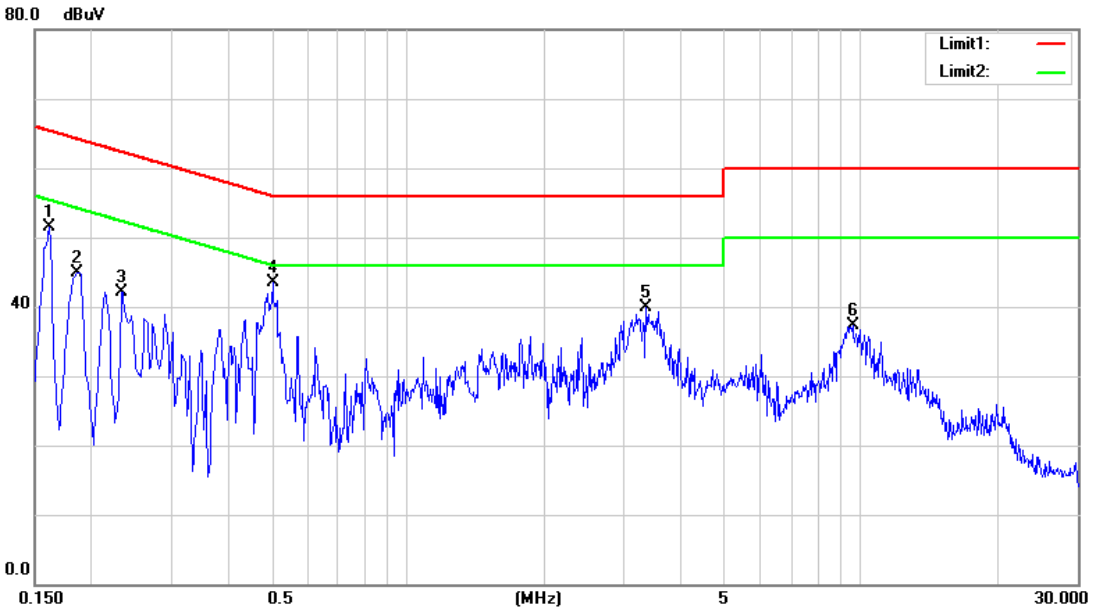
■ **Limit**

Frequency (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	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 0.15 to 0.50 MHz.

■ Test Result

Test Standard:	FCC Part 15B	Power Line:	L1
Test Mode:	Mode 2	Test Power:	AC 120V/60Hz
Description:			

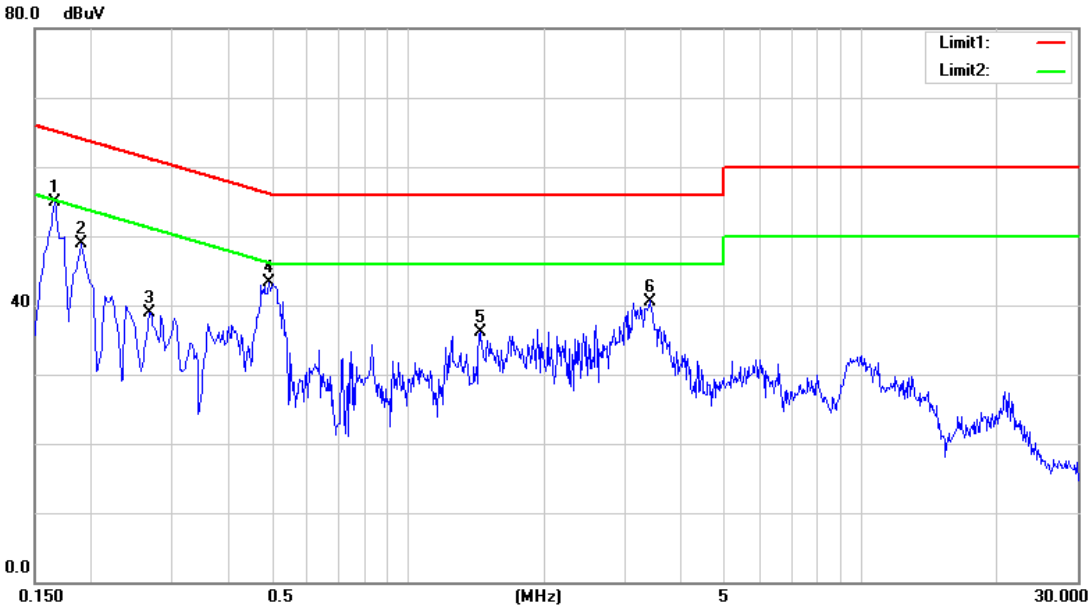


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1620	38.58	20.00	9.60	48.18	29.60	65.36	55.36	-17.18	-25.76	Pass
2	0.1860	34.89	21.92	9.59	44.48	31.51	64.21	54.21	-19.73	-22.70	Pass
3	0.2340	26.33	6.07	9.59	35.92	15.66	62.31	52.31	-26.39	-36.65	Pass
4	0.5020	29.70	18.53	9.61	39.31	28.14	56.00	46.00	-16.69	-17.86	Pass
5	3.3500	25.46	14.69	9.74	35.20	24.43	56.00	46.00	-20.80	-21.57	Pass
6	9.5700	22.65	17.53	9.89	32.54	27.42	60.00	50.00	-27.46	-22.58	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Test Standard:	FCC Part 15B	Power Line:	N
Test Mode:	Mode 2	Test Power:	AC 120V/60Hz
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1660	48.54	33.33	0.03	48.57	33.36	65.16	55.16	-16.59	-21.80	Pass
2	0.1900	44.10	29.61	0.03	44.13	29.64	64.04	54.04	-19.91	-24.40	Pass
3	0.2700	33.65	17.05	0.04	33.69	17.09	61.12	51.12	-27.43	-34.03	Pass
4	0.4940	40.28	27.29	0.05	40.33	27.34	56.10	46.10	-15.77	-18.76	Pass
5	1.4420	30.59	22.40	0.09	30.68	22.49	56.00	46.00	-25.32	-23.51	Pass
6	3.4180	34.44	24.33	0.15	34.59	24.48	56.00	46.00	-21.41	-21.52	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

5.2. Radiated Emission

■ **Limit**

Under 1GHz test shall not exceed following value

FCC 47 CFR PART 15 SUBPART B				
Frequency range (MHz)	Class A		Class B	
	Distance (m)	dBuV/m	Distance (m)	dBuV/m
30 to 88	10	39	3	40
88 to 216	10	43.5	3	43.5
216 to 960	10	46.4	3	46
Above 960	10	49.5	3	54

CISPR 22				
Frequency range (MHz)	Class A		Class B	
	Distance (m)	dBuV/m	Distance (m)	dBuV/m
30 to 230	10	40	10	30
230 to 1000	10	47	10	37

Above 1GHz test shall not exceed following value

Frequency (MHz)	dBuV/m (Distance 3m)			
	Class A		Class B	
	Average	Peak	Average	Peak
1000 ~ 40000	60	80	54	74

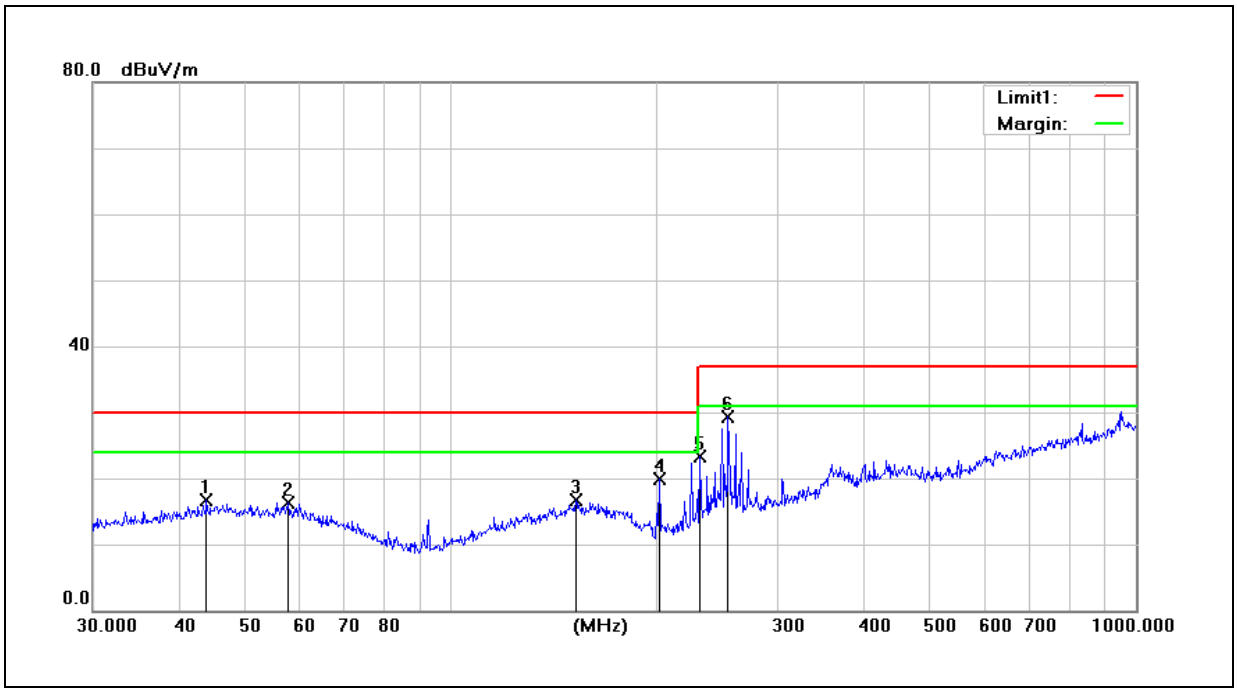
Remark: 1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)
4. Peak detector limit is corresponding to 20 dB above the maximum permitted average limit.

According to FCC Part 15.33 (b), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or in which the device operated or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.75	30
1.75-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40GHz, whichever is lower

■ Test Result

Test Standard:	CISPR 22	Test Distance:	10m
Test Mode:	Mode 2	Test Power:	AC 120V/60Hz
Measurement Range:	30MHz~1GHz	Ant.Polar.:	Horizontal

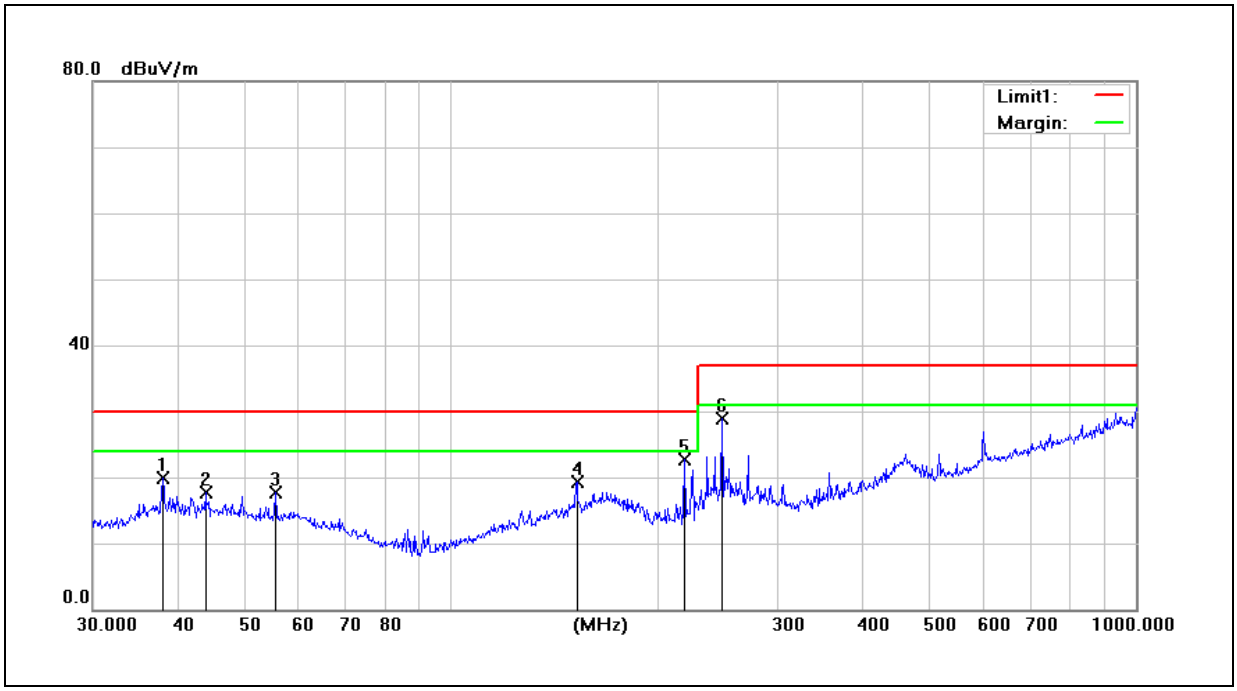


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	43.9658	32.40	-15.78	16.62	30.00	-13.38	200	42	peak
2	57.7962	32.33	-16.07	16.26	30.00	-13.74	200	0	peak
3	152.1297	31.53	-14.89	16.64	30.00	-13.36	400	306	peak
4	201.3930	38.07	-18.14	19.93	30.00	-10.07	400	318	peak
5	230.9068	40.79	-17.51	23.28	37.00	-13.72	400	303	peak
6	253.8367	45.27	-15.89	29.38	37.00	-7.62	400	109	peak

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	CISPR 22	Test Distance:	10m
Test Mode:	Mode 2	Test Power:	AC 120V/60Hz
Measurement Range:	30MHz~1GHz	Ant.Polar.:	Vertical

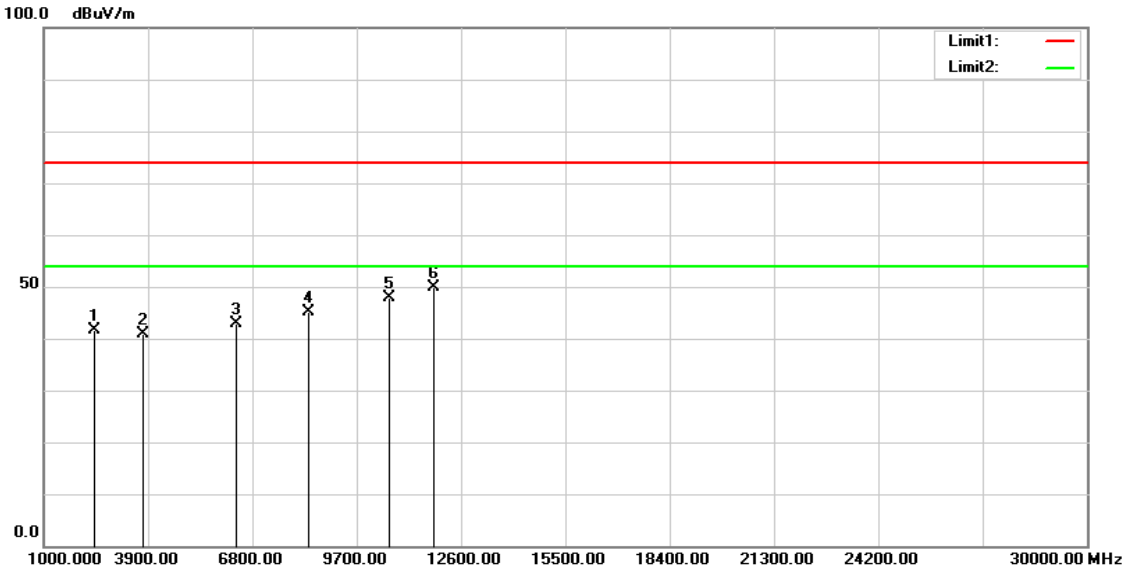


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	37.9450	36.99	-17.06	19.93	30.00	-10.07	100	254	peak
2	43.8120	34.08	-16.29	17.79	30.00	-12.21	301	360	peak
3	55.4147	33.99	-16.29	17.70	30.00	-12.30	100	85	peak
4	152.6641	34.06	-14.79	19.27	30.00	-10.73	100	103	peak
5	219.0753	40.35	-17.57	22.78	30.00	-7.22	100	51	peak
6	248.5520	44.67	-15.74	28.93	37.00	-8.07	101	360	peak

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B	Test Distance:	3m
Test Mode:	Mode 2	Test Power:	AC 120V/60Hz
Measurement Range:	1GHz~30GHz	Ant.Polar.:	Horizontal

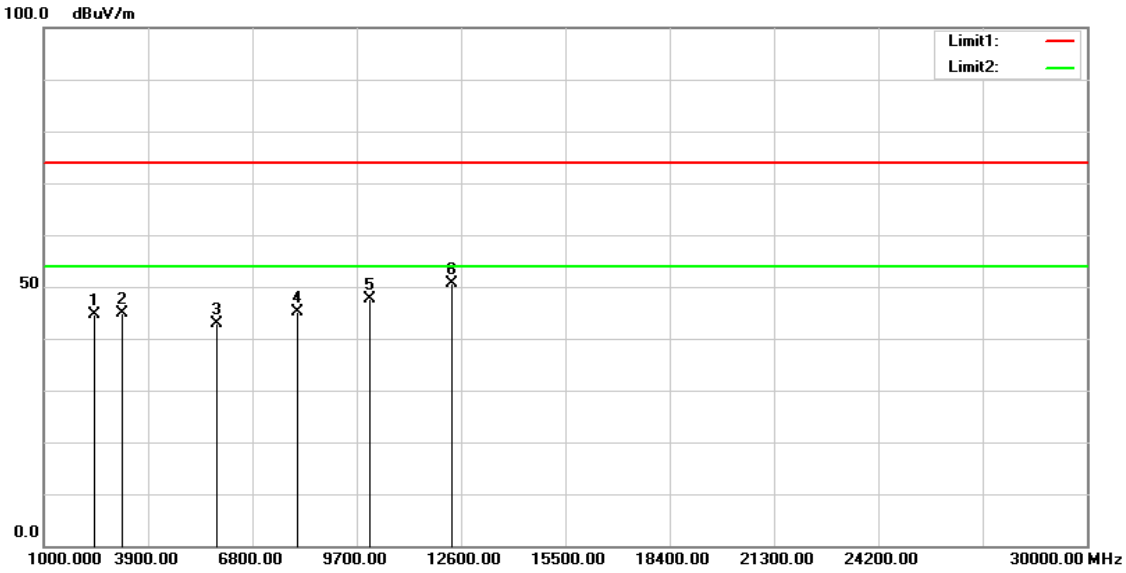


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	2392.000	40.03	1.63	41.66	74.00	-32.34	100	126	peak
2	3760.000	36.55	4.43	40.98	74.00	-33.02	200	324	peak
3	6352.000	33.64	9.16	42.80	74.00	-31.20	200	121	peak
4	8356.000	34.64	10.54	45.18	74.00	-28.82	202	0	peak
5	10624.000	33.79	14.04	47.83	74.00	-26.17	200	22	peak
6	11848.000	34.21	15.78	49.99	74.00	-24.01	100	150	peak

Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

Test Standard:	FCC Part 15B	Test Distance:	3m
Test Mode:	Mode 2	Test Power:	AC 120V/60Hz
Measurement Range:	1GHz~30GHz	Ant.Polar.:	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	2392.000	42.99	1.63	44.62	74.00	-29.38	200	214	peak
2	3196.000	41.70	3.30	45.00	74.00	-29.00	100	116	peak
3	5800.000	34.66	8.28	42.94	74.00	-31.06	100	324	peak
4	8044.000	34.79	10.46	45.25	74.00	-28.75	100	91	peak
5	10060.000	34.84	12.90	47.74	74.00	-26.26	100	349	peak
6	12352.000	33.78	16.88	50.66	74.00	-23.34	100	205	peak

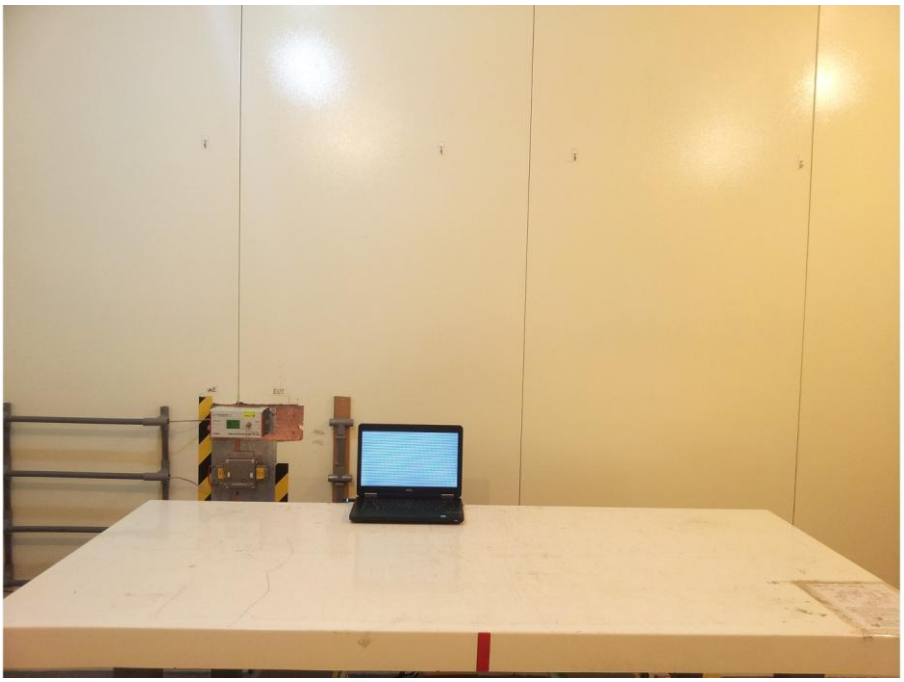
Note: 1. Result (dBuV/m) = Correction factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

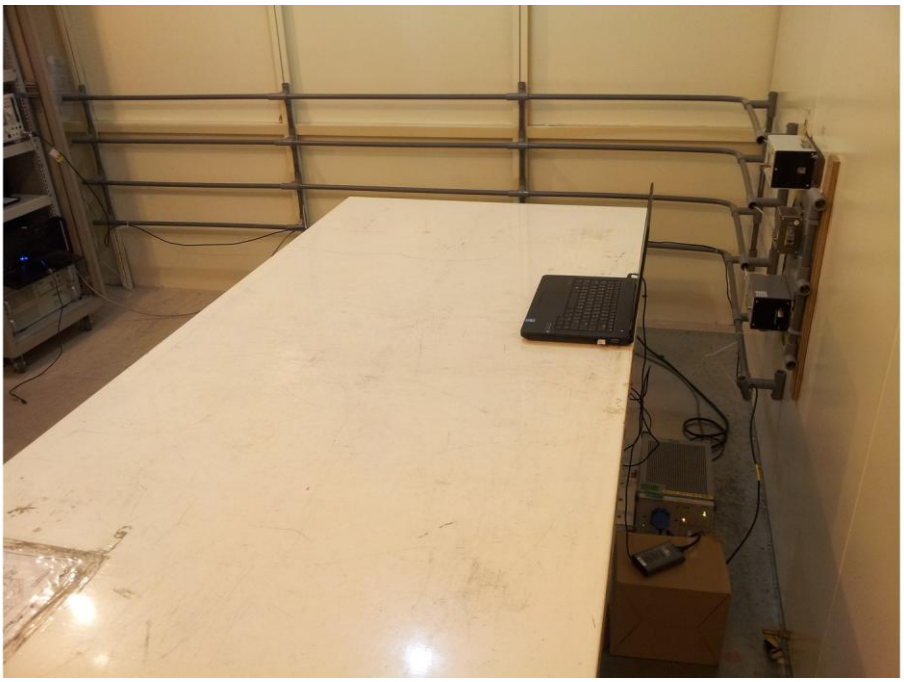
6 Test Setup Photo

6.1. Conducted Emission

Test Mode:	Mode 2
Description:	Front View



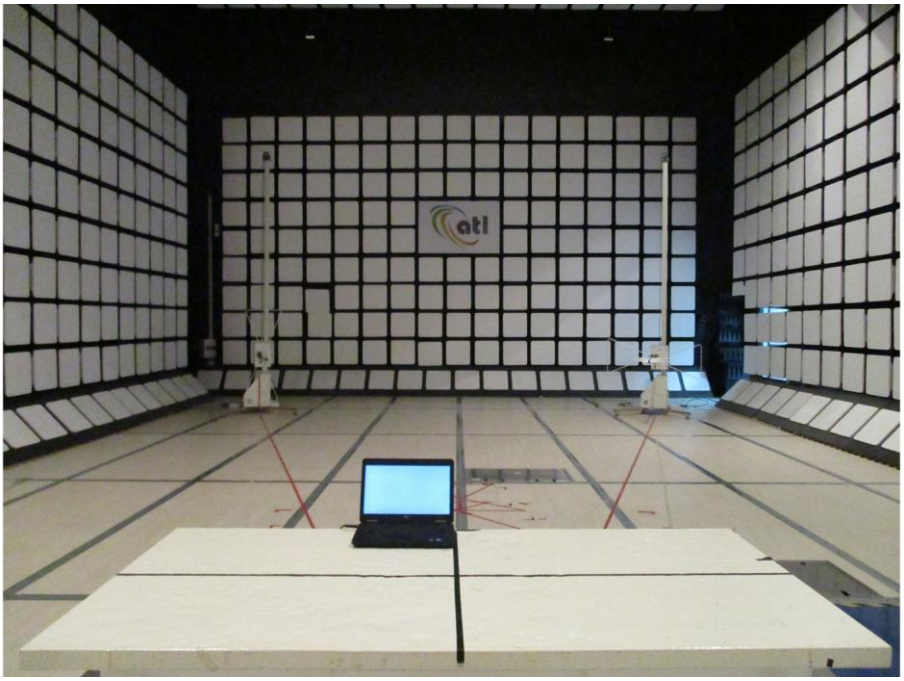
Description:	Back View



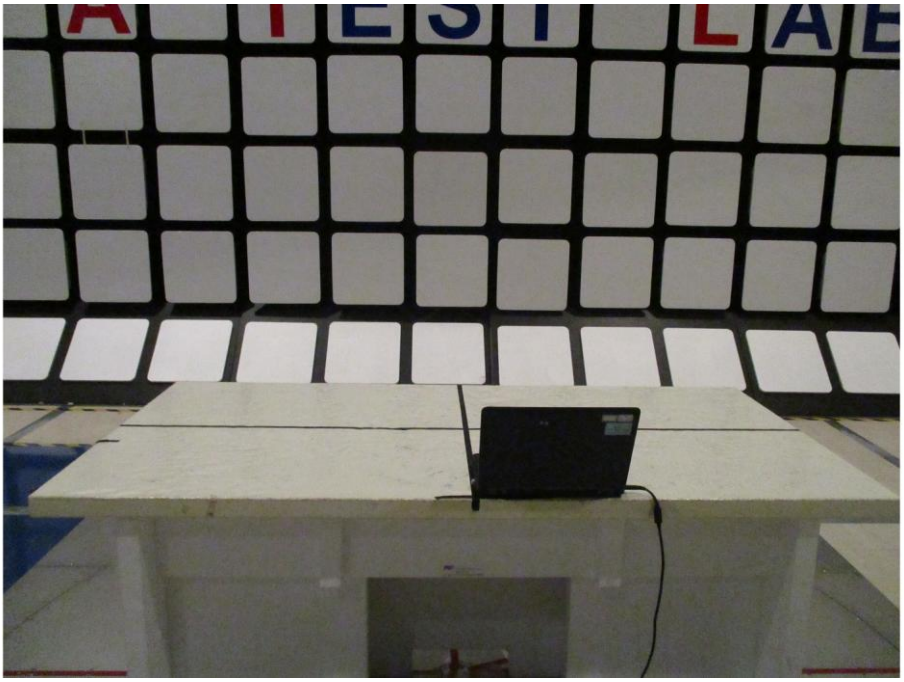
6.2. Radiated Emission

Test Mode:	Mode 2

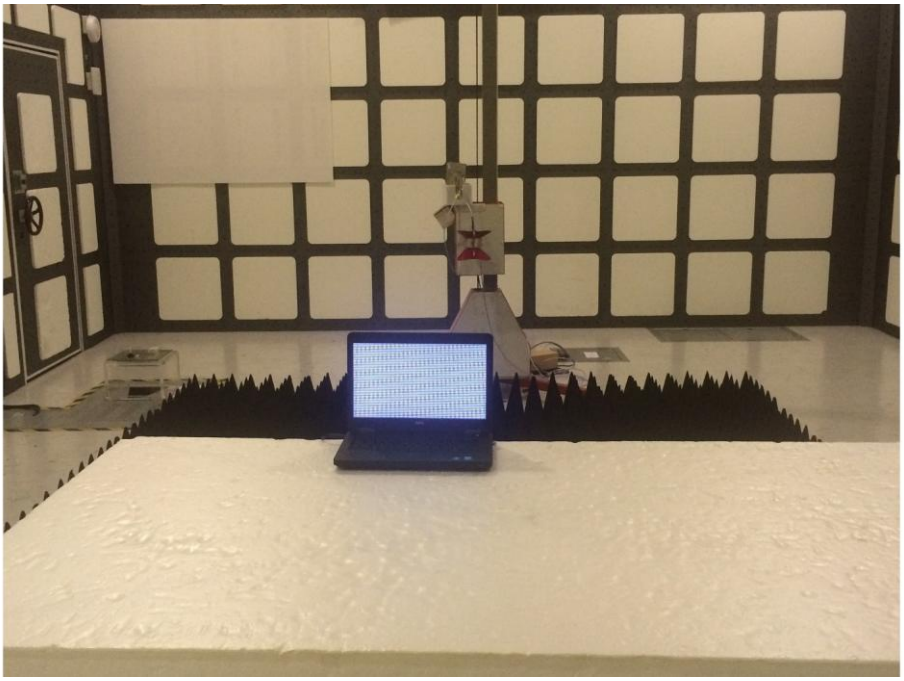
Description: Front View _ Below 1GHz



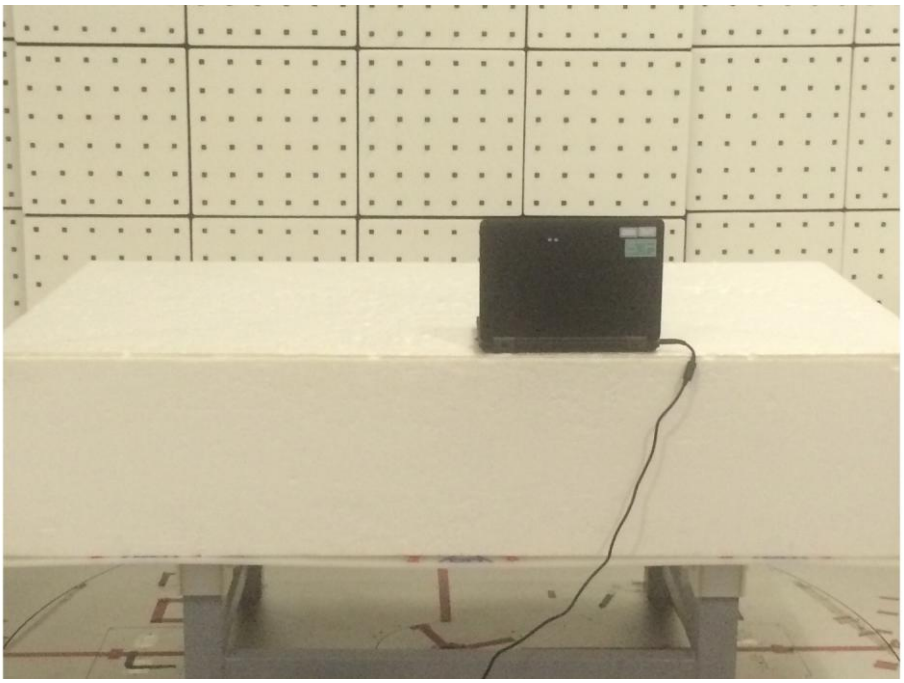
Description: Back View _ Below 1GHz



Test Mode:	Mode 2
Description:	Front View _ Above 1GHz

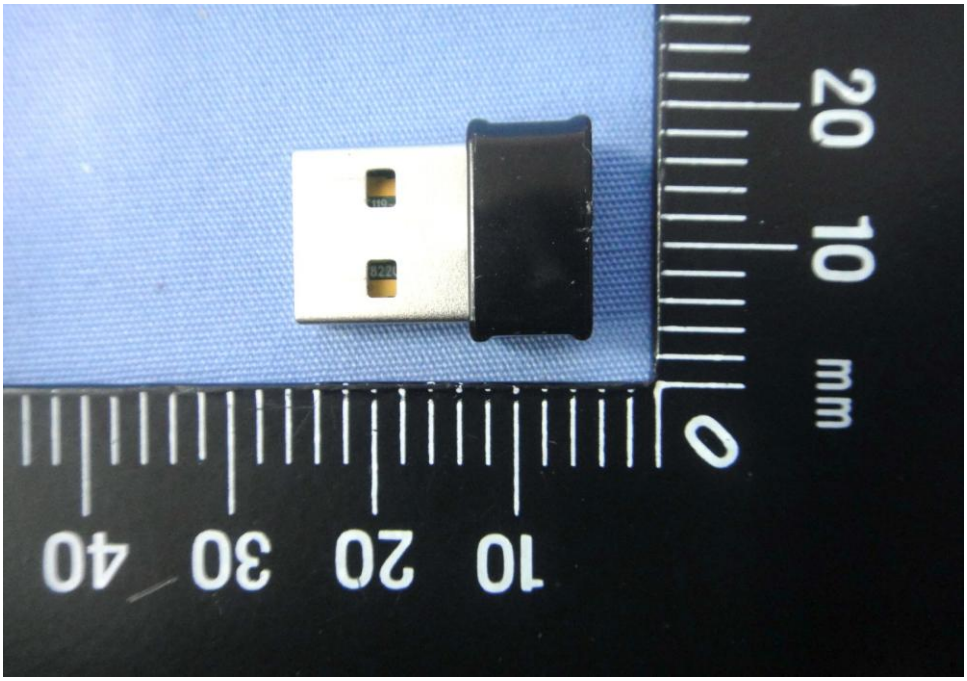


Description:	Back View _ Above 1GHz

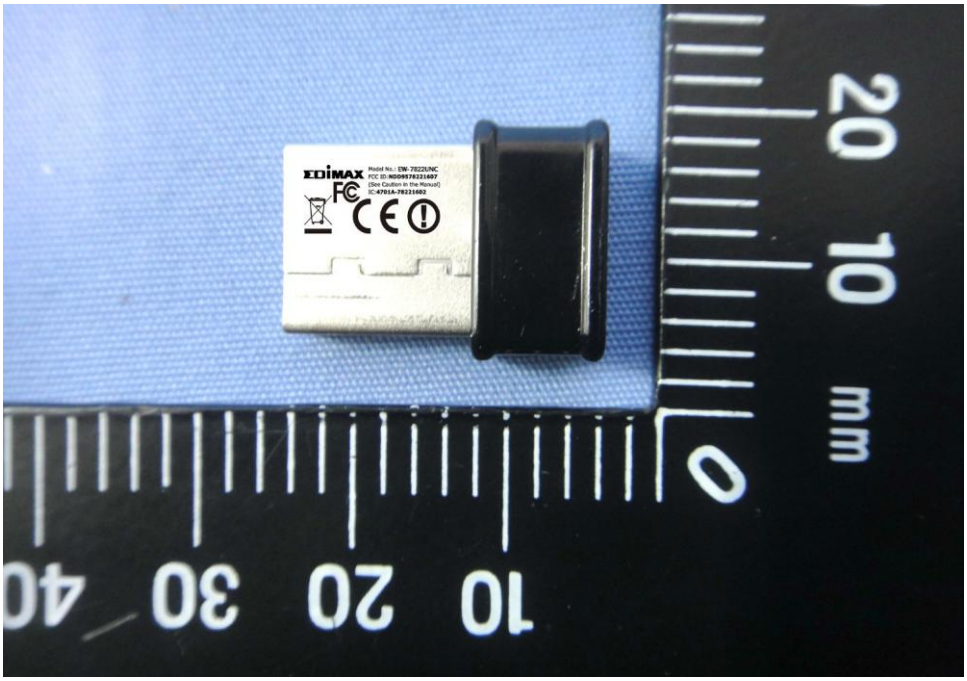


7 EUT Photograph

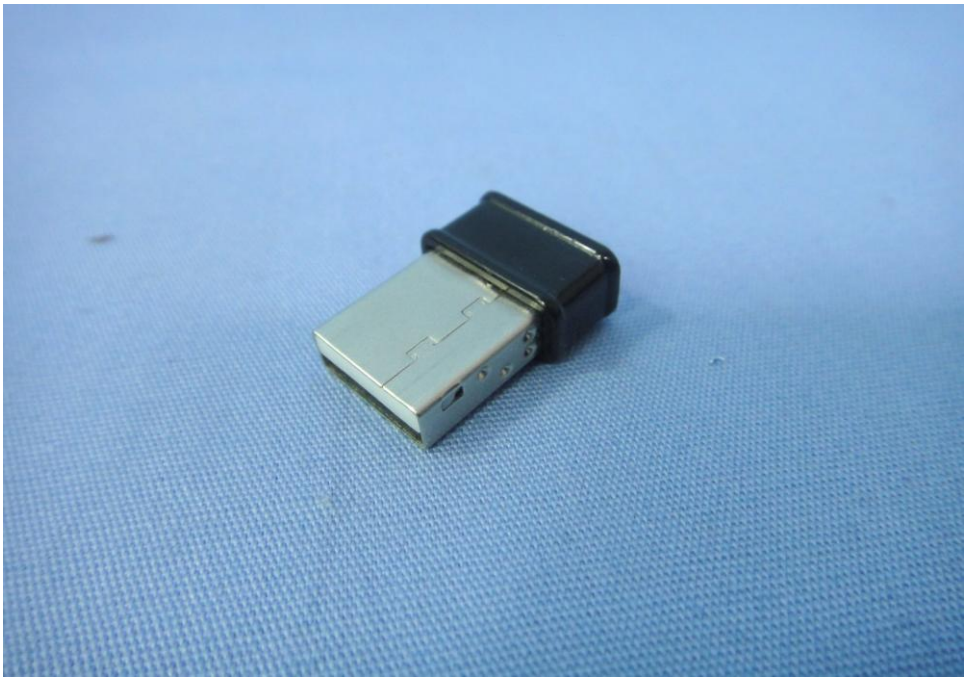
(1) EUT Photo



(2) EUT Photo



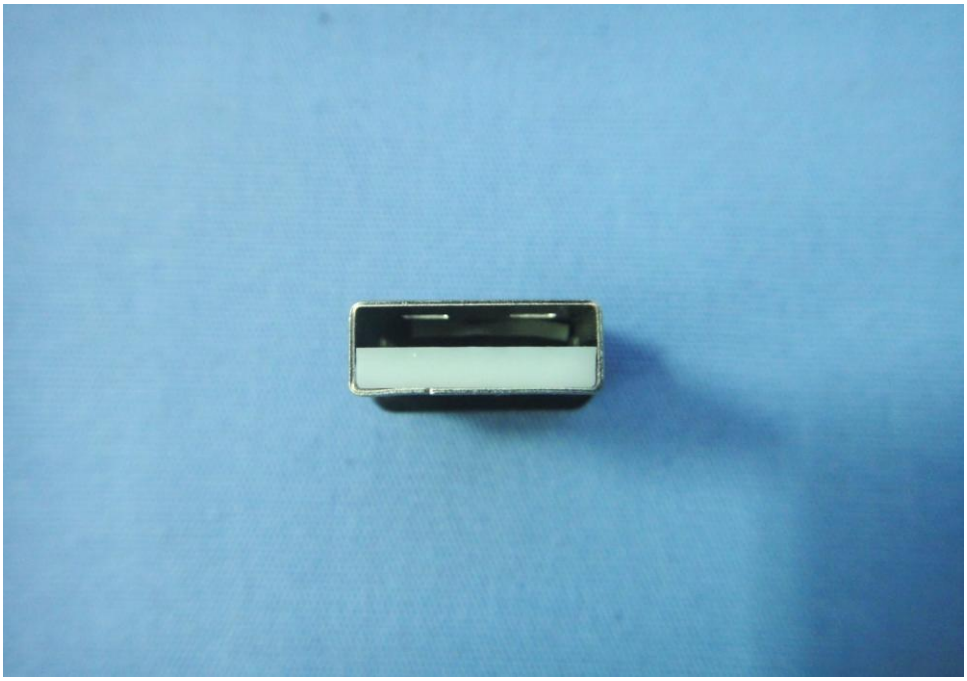
(3) EUT Photo



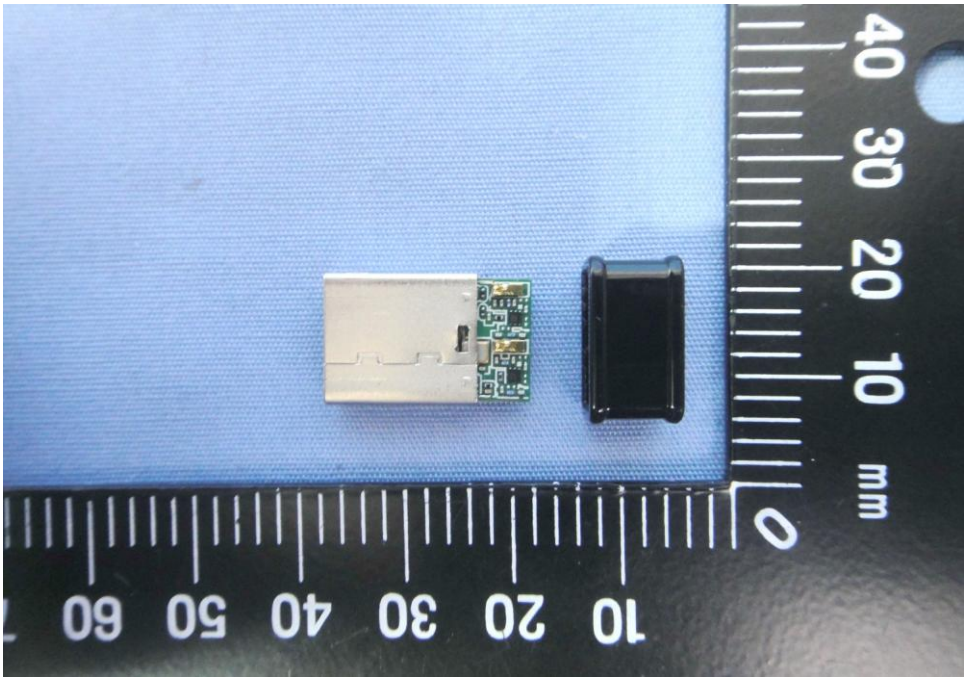
(4) EUT Photo



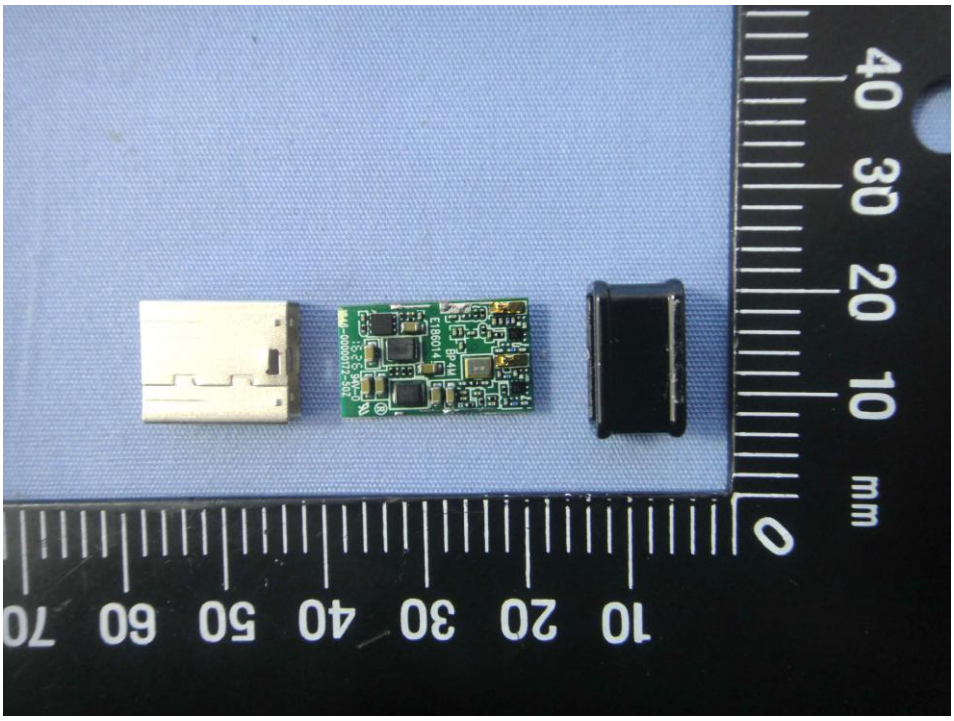
(5) EUT Photo



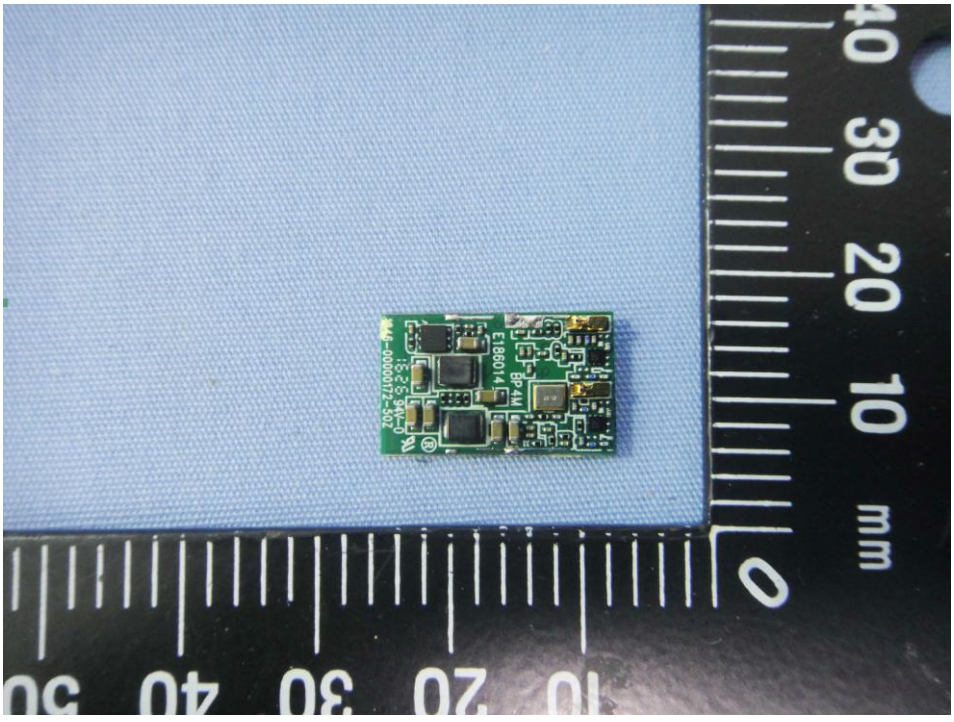
(6) EUT Photo



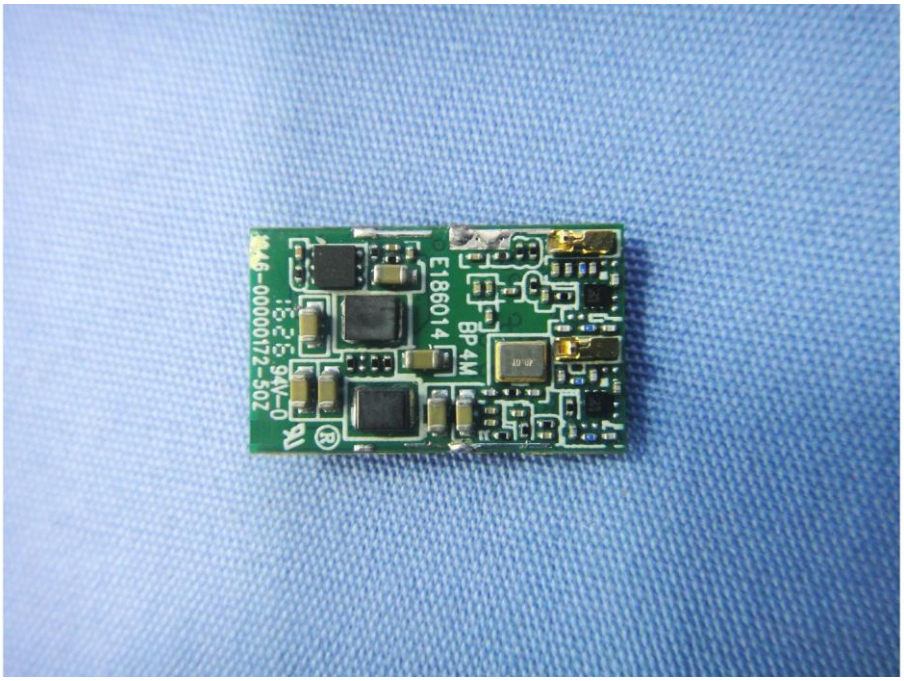
(7) EUT Photo



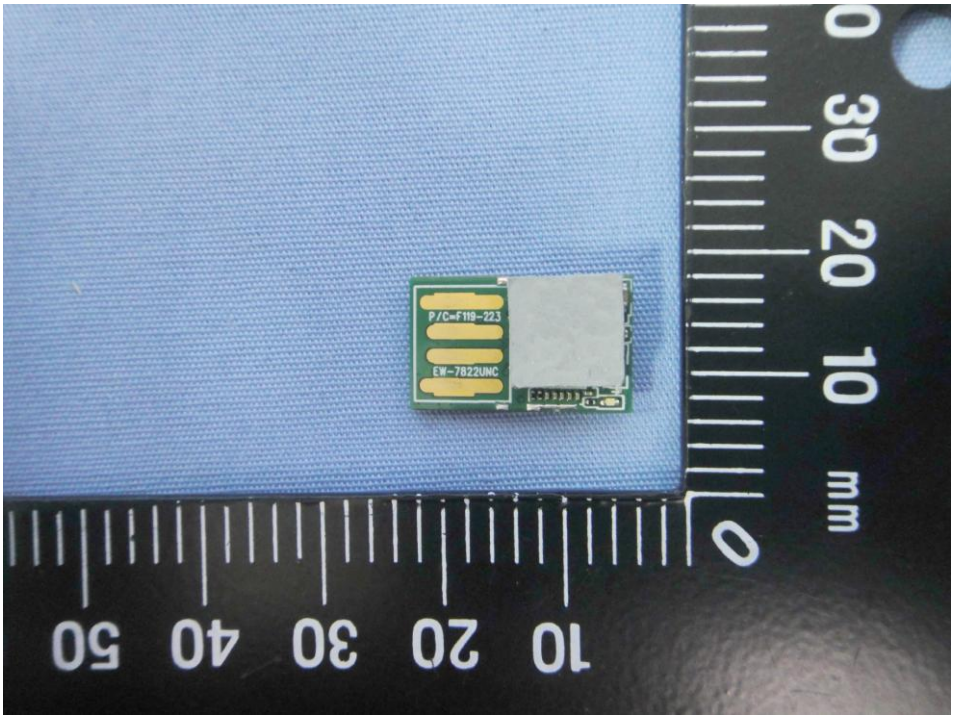
(8) EUT Photo



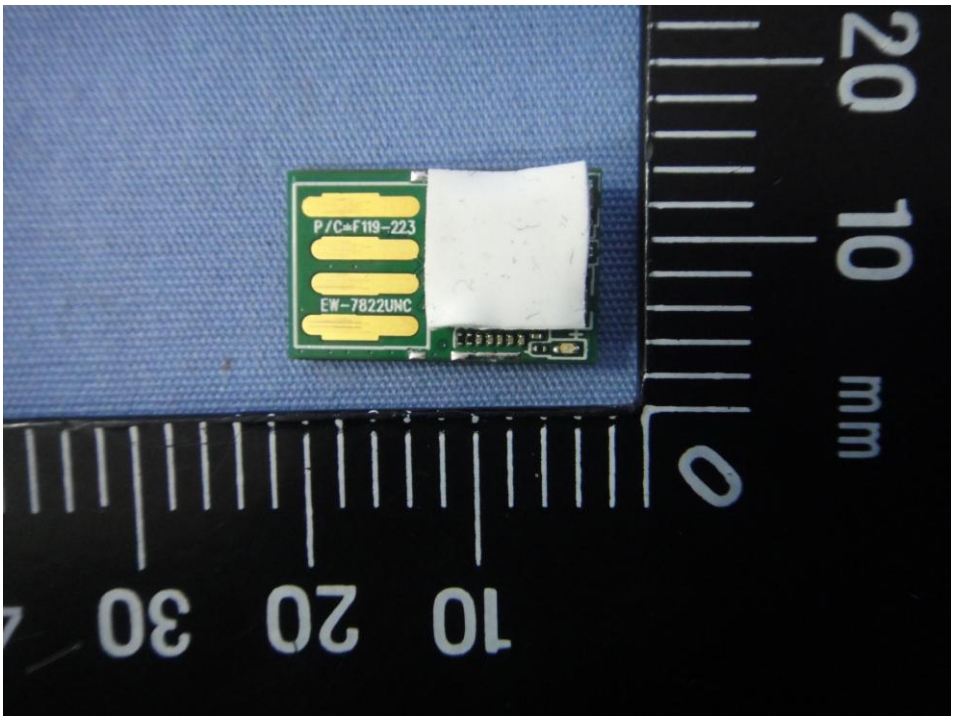
(9) EUT Photo



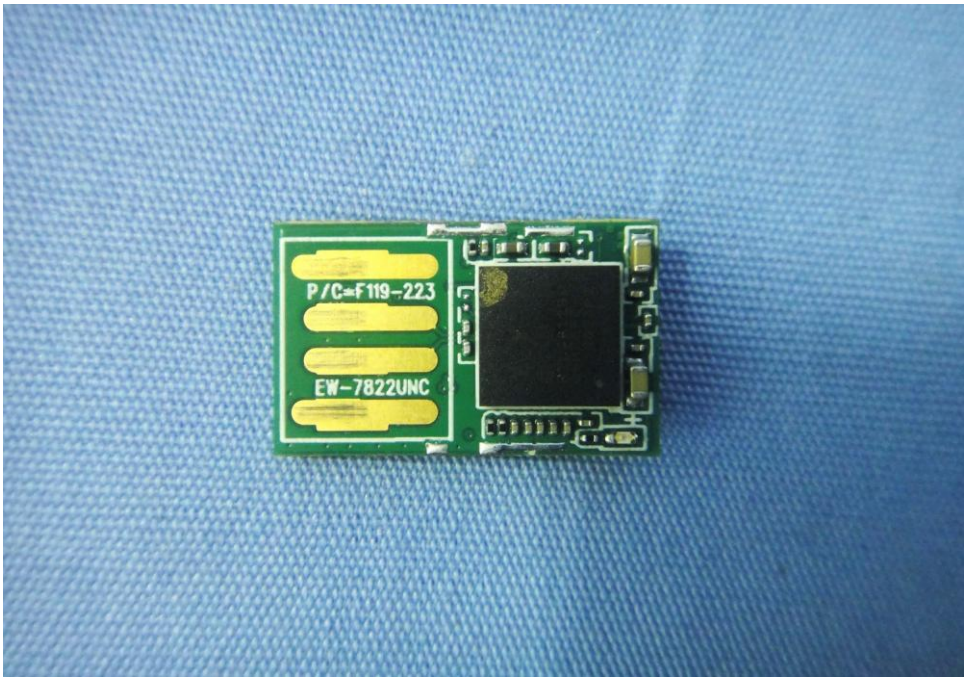
(10)EUT Photo



(11)EUT Photo



(12)EUT Photo



(13)EUT Photo

