

# TEST REPORT

of

## FCC Part 15 Subpart B SDoC

### And ICES-003

☒ New Application; ☐ Class I PC; ☐ Class II PC

**Product :** BT module

**Brand Name:** Fanstel

**Model:** BM832; BM832A; BM832E

**Model Difference:** Please see page 5 model summaries table

**FCC Rule Part:** Part 15 B, SDoC

**IC Rule Part:** ICES-003: Issue 6, 2016, Class B

**Applicant:** Fanstel Corporation, Taipei

**Address:** 10F-10, No. 79, Sec. 1, Hsin Tai Wu Rd.,  
Hsi-Chih, New Taipei City 221 Taiwan

**Test Performed by:**

**International Standards Laboratory Corp.**

<LT Lab.>

\*Site Registration No.

BSMI: SL2-IN-E-0013; MRA TW1036; TAF: 0997; IC: IC4067B-4;

\*Address:

No. 120, Lane 180, Hsin Ho Rd.,

Lung-Tan Dist., Tao Yuan City 325, Taiwan

\*Tel : 886-3-407-1718; Fax: 886-3-407-1738

**Report No.: ISL-18LR304FB**

**Issue Date : 2018/11/28**



Test results given in this report apply only to the specific sample(s) tested and are traceable to national or international standard through calibration of the equipment and evaluating measurement uncertainty herein.

This report MUST not be used to claim product endorsement by TAF, NVLAP or any agency of the Government.

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## VERIFICATION OF COMPLIANCE

**Applicant:** Fanstel Corporation, Taipei  
**Product Description:** BT module  
**Brand Name:** Fanstel  
**Model No.:** BM832; BM832A; BM832E  
**Model Difference:** Please see page 5 model summaries table  
**FCC Rule Part:** Part 15 B, SDoC  
**IC Rule Part:** ICES-003: Issue 6, 2016, Class B  
**Date of test:** 2018/10/02 ~ 2018/11/27  
**Date of EUT Received:** 2018/10/02

### We hereby certify that:

All the tests in this report have been performed and recorded in accordance with the standards described above and performed by an independent electromagnetic compatibility consultant, International Standards Laboratory Corp.

The test results contained in this report accurately represent the measurements of the characteristics and the energy generated by sample equipment under test at the time of the test. The sample equipment tested as described in this report is in compliance with the limits of above standards.

<b>Test By:</b>		<b>Date:</b>	2018/11/28
	<hr/>		<hr/>
	<i>Jason Chao / Engineer</i>		
<b>Prepared By:</b>		<b>Date:</b>	2018/11/28
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	<i>Gigi Yeh / Engineer</i>		
<b>Approved By:</b>		<b>Date:</b>	2018/11/28
	<hr/>		<hr/>
	<i>Dino Chen / Senior Engineer</i>		

## Version

Version No.	Date	Description
00	2018/11/28	Initial creation of document

## Uncertainty of Measurement

Description Of Test	Uncertainty
Conducted Emission (AC power line)	2.586 dB
Field Strength of Spurious Radiation	<=30MHz: 2.96dB 30-1GHz: 4.22 dB 1-40 GHz: 4.08 dB
Conducted Power	2.412 GHz: 1.30 dB 5.805 GHz: 1.55 dB
Power Density	2.412 GHz: 1.30 dB 5.805 GHz: 1.67 dB
Frequency	0.0032%
Time	0.01%
DC Voltage	1%

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## 1. GENERAL INFORMATION

### 1.1. Product Description

General:

Product Name	BT module
Brand Name	Fanstel
Model Name	BM832; BM832A; BM832E
Model Difference	Please see page 5 model summaries table
Power Supply	5Vdc
RF function	BT function

### Model Summaries

module	BM832	BM832A	BM832E
Flash/RAM	512KB/64KB	192KB/24KB	512KB/64KB
Size	10.2x15x1.9mm	10.2x15x1.9mm	10.2x15x1.9mm
GPIO	32	32	32
Antenna	PCB Trace	PCB Trace	u.FL
BT range, antenna at LMPI	340 meters	340 meters	
BT range, antenna at 1.52 M	270 meters	270 meters	
Availability	Sample	Sample	Sample

### **1.2. Related Submittal(s) / Grant (s)**

This submittal(s) (test report) is intended for Part15 Subpart B, is authorized under SDoC and Industry Canada ICES-003: Issue 6, 2016 procedure.

### **1.3. Test Methodology**

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4: 2014). Radiated testing was performed at an antenna to EUT distance 3 meters.

### **1.4. Test Facility**

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of **International Standards Laboratory Corp.** <LT Lab.> No. 120, Lane 180, Hsin Ho Rd., Lung-Tan Dist., Tao Yuan City 325, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2014. FCC Registration Number is: TW1036, Canada Registration Number: 4067B-3.

### **1.5. Special Accessories**

Not available for this EUT intended for grant.

### **1.6. Equipment Modifications**

Not available for this EUT intended for grant.

## **2. System Test Configuration**

### **2.1. EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### **2.2. EUT Exercise**

The EUT was operated in the normal mode.

### **2.3. Test Procedure**

#### **2.3.1 Conducted Emissions**

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 of ANSI C63.4: 2014. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

#### **2.3.2 Radiated Emissions**

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 of ANSI C63.4: 2014.

## 2.4. Limitation

### (1) Conducted Emission

According to section 15.107(a), ICES-003 Section 6.1 Conducted Emission Limits is as following.

Frequency range MHz	Class B Limits dB (uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note		
1.The lower limit shall apply at the transition frequencies		
2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

### (1) Radiated Emission

According to section 15.109(a), ICES-003 Section 6.2 or CISPR 22 Radiated Emission Class B Limits is as following:

Frequency (MHz)	Field strength $\mu\text{V/m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V/m}$
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Standard	Date	Description
CISPR 22	2010	Limits and methods of measurement of radio interference characteristics of information technology equipment.



CISPR 22 Limit:

Frequency range MHz	Limits dBuV/m (10m)
	Quasi-peak
30 to 230	30
230 to 1000	37

Frequency range GHz	Limits dBuV/m (3m)	
	Average	Peak
1 to 3	50	70
3 to 6	54	74

Remark: 1. Emission level in dBuV/m=20 log (uV/m)  
2. Measurement was performed at an antenna to the closed point of EUT distance of 3 meters.

## 2.5. Configuration of Tested System

Fig. 1-1 Configuration

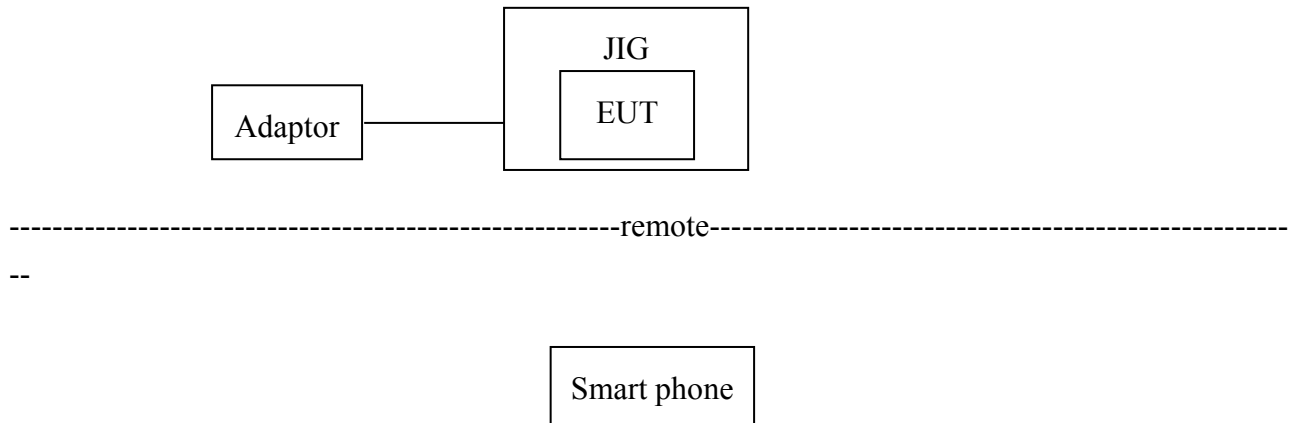


Table 1-1 Support Equipment Used in Tested System

Item	Equipment	Mrf/Brand	Model name	Series No	Data Cable	Power Cable
1	adaptor	Apple	A1385	N/A	N/A	Shielded /0.6m
2	Smart phone	hTC	PL99110	N/A	N/A	N/A

I/O Cable Condition of EUT and Support Units

Description	Path	Cable Length	Cable Type	Connector Type
USB power cable	Adaptor USB port to JIG micro USB port	0.6M	Non-Shielded	Metal Head

**Note:** All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

**Grounding:** Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

### 3. Summary of Test Results

Rules	Description Of Test	Result
§15.107 ICES-003 CISPR 22	Conducted Emission Class B	Compliant
§15.109 ICES-003 CISPR 22	Radiated Emission(Below 1GHz) Class B	Compliant
§15.109 ICES-003	Radiated Emission(above 1GHz) Class B	Compliant

### 4. Description of test modes

This is a modular application and the EUT was stayed in normal operation mode.

#### Test Plan

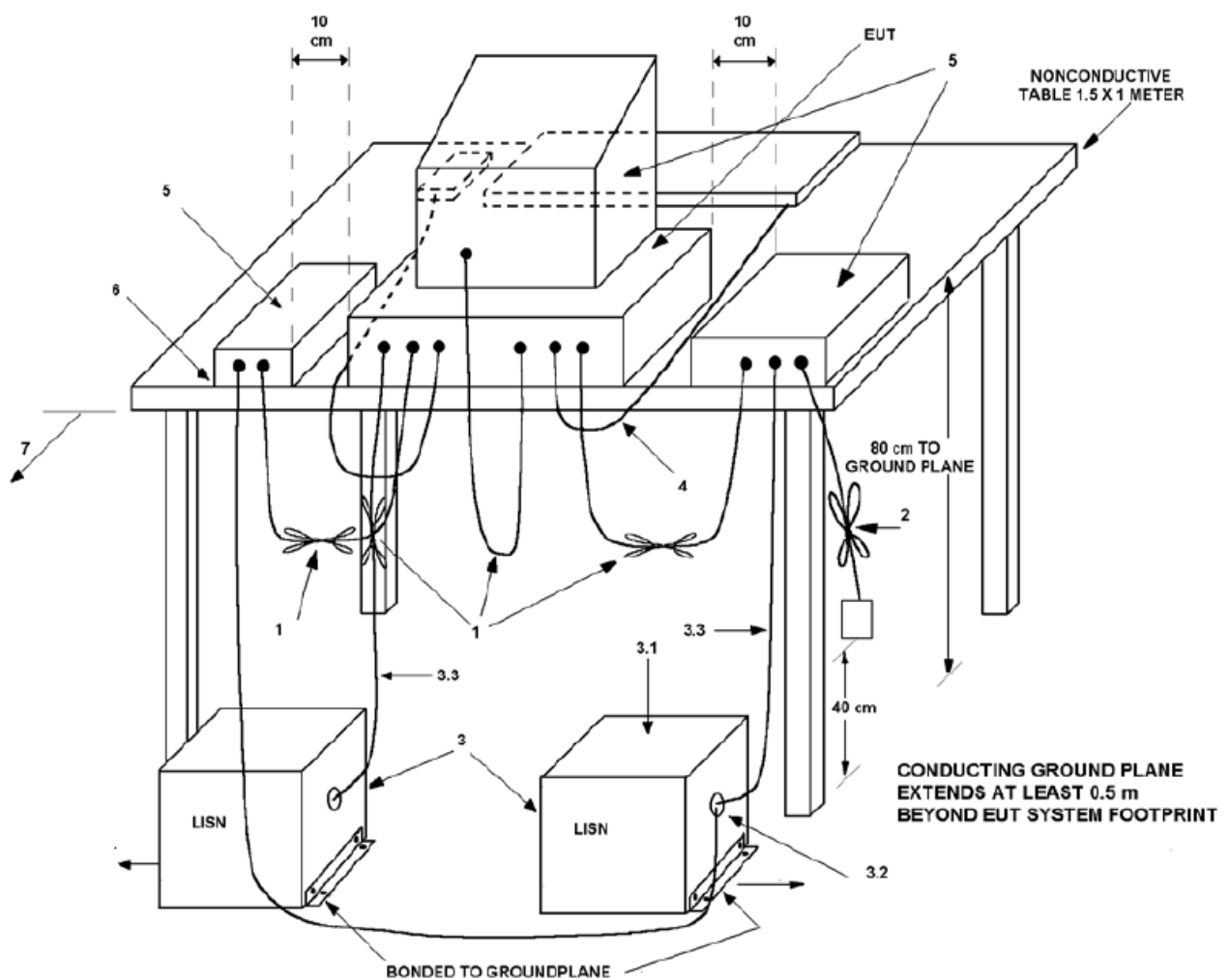
	Config 1	Config 2	Config 3
Applicable standard	FCC 15B,ICES-003		
Accessories	UE + Smart phone	UE + Smart phone	UE + Smart phone
Description	BT link(BM832E) Antenna:Ant020	BT link(BM832)	BT link(BM832A)
Radiated emission(30M~1GHz)(above 1GHz)	Measured	Pretest	Pretest
Conducted emission (DC Power)	N/A	N/A	N/A
Conducted emission (AC Power)	Measured	N/A	N/A

## 5. Conducted Emissions Test

### 5.1. Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

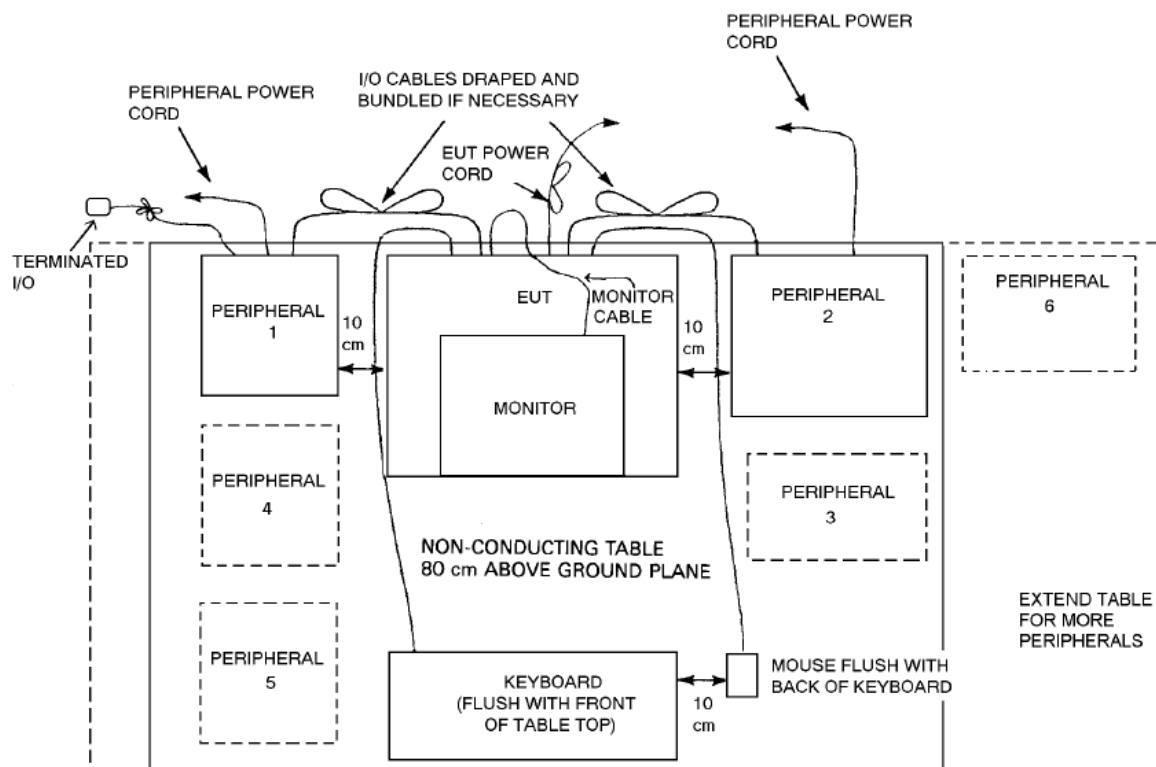
### 5.2. Test SET-UP (Block Diagram of Configuration)



# LEGEND:

1. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long (see 6.2.5, also 11.5.5).
2. Input/output (I/O) cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m (see 6.2.5).
3. EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated into 50  $\Omega$  loads. LISN can be placed on top of, or immediately beneath, reference ground plane (see 5.2.4 and 7.3.1).
  - 3.1 All other equipment powered from additional LISN(s).
  - 3.2 Multiple outlet strips can be used for multiple power cords of non-EUT equipment.
  - 3.3 LISN at least 80 cm from nearest part of EUT chassis.
4. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal use (see 6.3.2.4 and 11.5.5).
5. Non-EUT components of EUT system being tested (see also Figure 7).
6. Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop (see 6.3.2.2 and 6.3.2.3).
7. Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane (see 5.2.3 for options).

**Figure 7 —EUT test configuration/arrangement for tabletop equipment (radiated and conducted emissions)—top view**



### 5.3. Measurement Equipment Used:

Location Con04	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Conduction 04	LISN 18	ROHDE & SCHWARZ	ENV216	101424	05/31/2018	05/31/2019
Conduction 04	LISN 03	ROHDE & SCHWARZ	ESH3-Z5	828874/010	07/22/2018	07/22/2019
Conduction 04	ISN T8 07	Teseq GmbH	ISN T800	30834	08/24/2018	08/24/2019
Conduction 04	Conduction 04-3 Cable	WOKEN	CFD 300-NL	conduction 04-3	08/30/2018	08/30/2019
Conduction04	EMI Receiver 16	ROHDE & SCHWARZ	ESCI	101221	11/17/2018	11/17/2019

## 5.4. Measurement Result:



Address: No. 120, Lane 180, Hsin Ho Rd., Lung-Tan Dist.,  
Tao Yuan City 325, Taiwan.  
Tel: 03-4071718

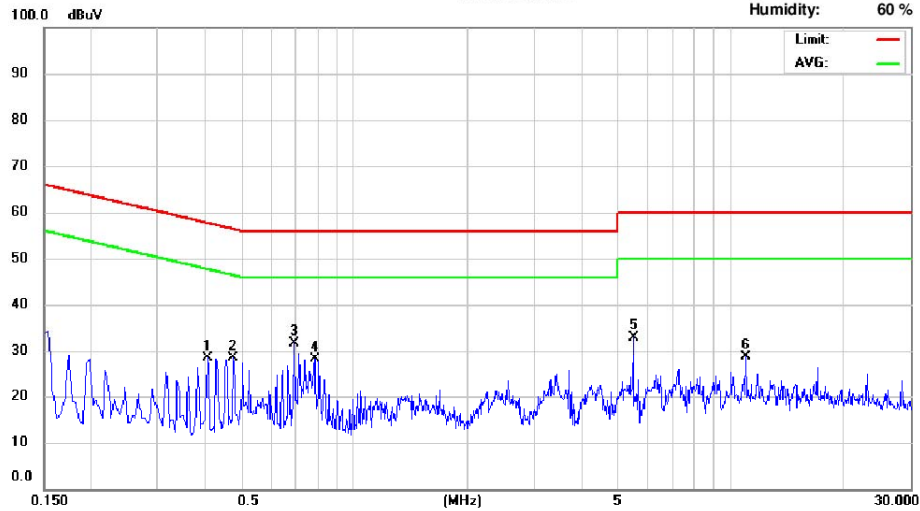
### Conducted Emission Measurement

Date: 2018/10/9

operator: Martin Lin

Temperature: 26 °C

Humidity: 60 %



Site: Conduction 03

Phase: L1

No.	Frequency (MHz)	QP_R (dBuV)	AVG_R (dBuV)	Correct Factor (dB)	QP Emission (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Emission (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)
1	0.410	11.63	-1.20	9.71	21.34	57.65	-36.31	8.51	47.65	-39.14
2	0.478	11.21	-0.16	9.72	20.93	56.37	-35.44	9.56	46.37	-36.81
3	0.690	13.12	2.44	9.73	22.85	56.00	-33.15	12.17	46.00	-33.83
4	0.786	13.51	4.98	9.73	23.24	56.00	-32.76	14.71	46.00	-31.29
5	5.530	6.49	1.01	9.85	16.34	60.00	-43.66	10.86	50.00	-39.14
6	10.986	6.33	2.23	9.96	16.29	60.00	-43.71	12.19	50.00	-37.81



Address: No. 120, Lane 180, Hsin Ho Rd., Lung-Tan Dist.,  
Tao Yuan City 325, Taiwan.  
Tel: 03-4071718

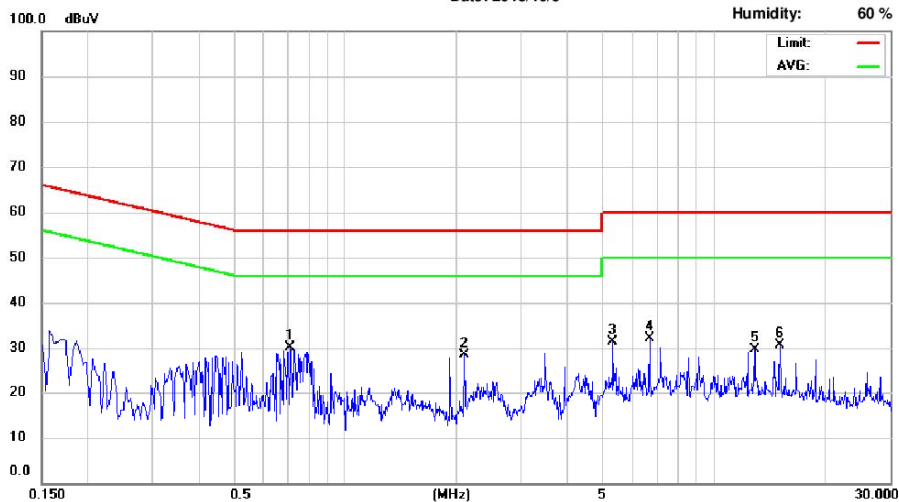
### Conducted Emission Measurement

Date: 2018/10/9

operator: Martin Lin

Temperature: 26 °C

Humidity: 60 %



Site: Conduction 03

Phase: N

No.	Frequency (MHz)	QP_R (dBuV)	AVG_R (dBuV)	Correct Factor (dB)	QP Emission (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Emission (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)
1	0.710	13.91	2.93	9.73	23.64	56.00	-32.36	12.66	46.00	-33.34
2	2.102	2.20	-2.31	9.77	11.97	56.00	-44.03	7.46	46.00	-38.54
3	5.318	7.99	2.86	9.87	17.86	60.00	-42.14	12.73	50.00	-37.27
4	6.694	3.33	-2.72	9.91	13.24	60.00	-46.76	7.19	50.00	-42.81
5	12.902	5.67	0.69	10.05	15.72	60.00	-44.28	10.74	50.00	-39.26
6	15.078	3.20	-1.82	10.10	13.30	60.00	-46.70	8.28	50.00	-41.72

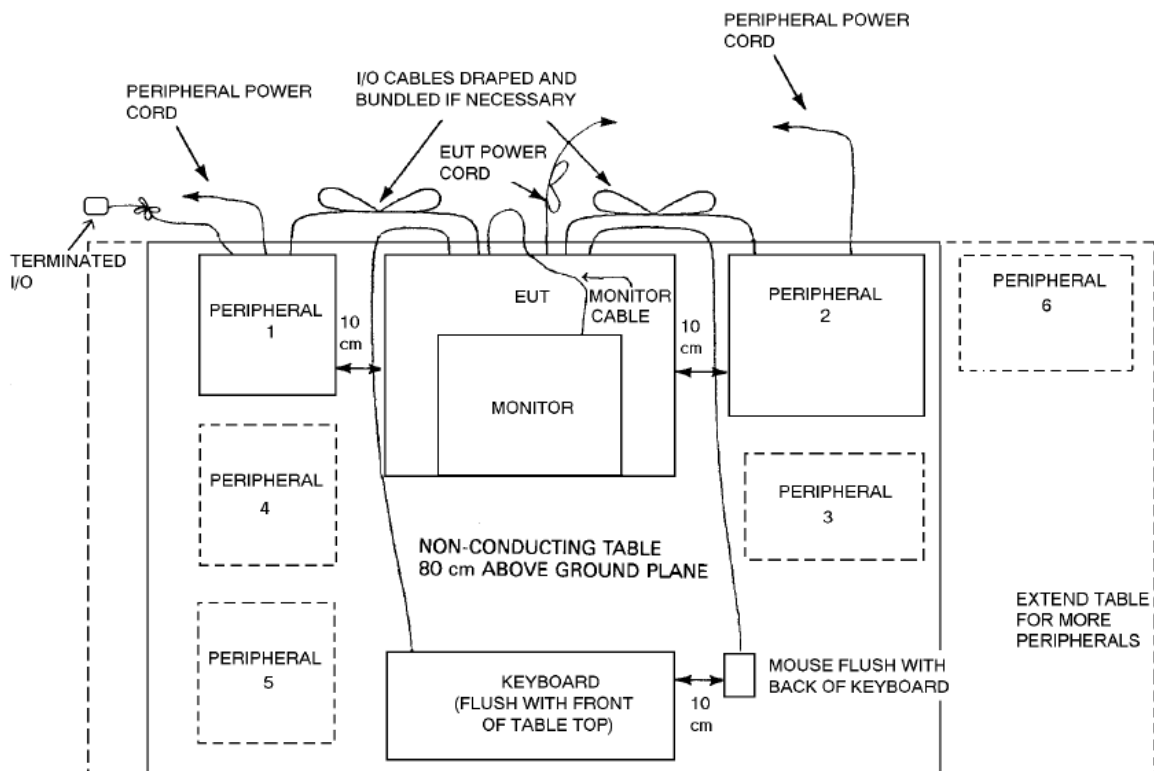


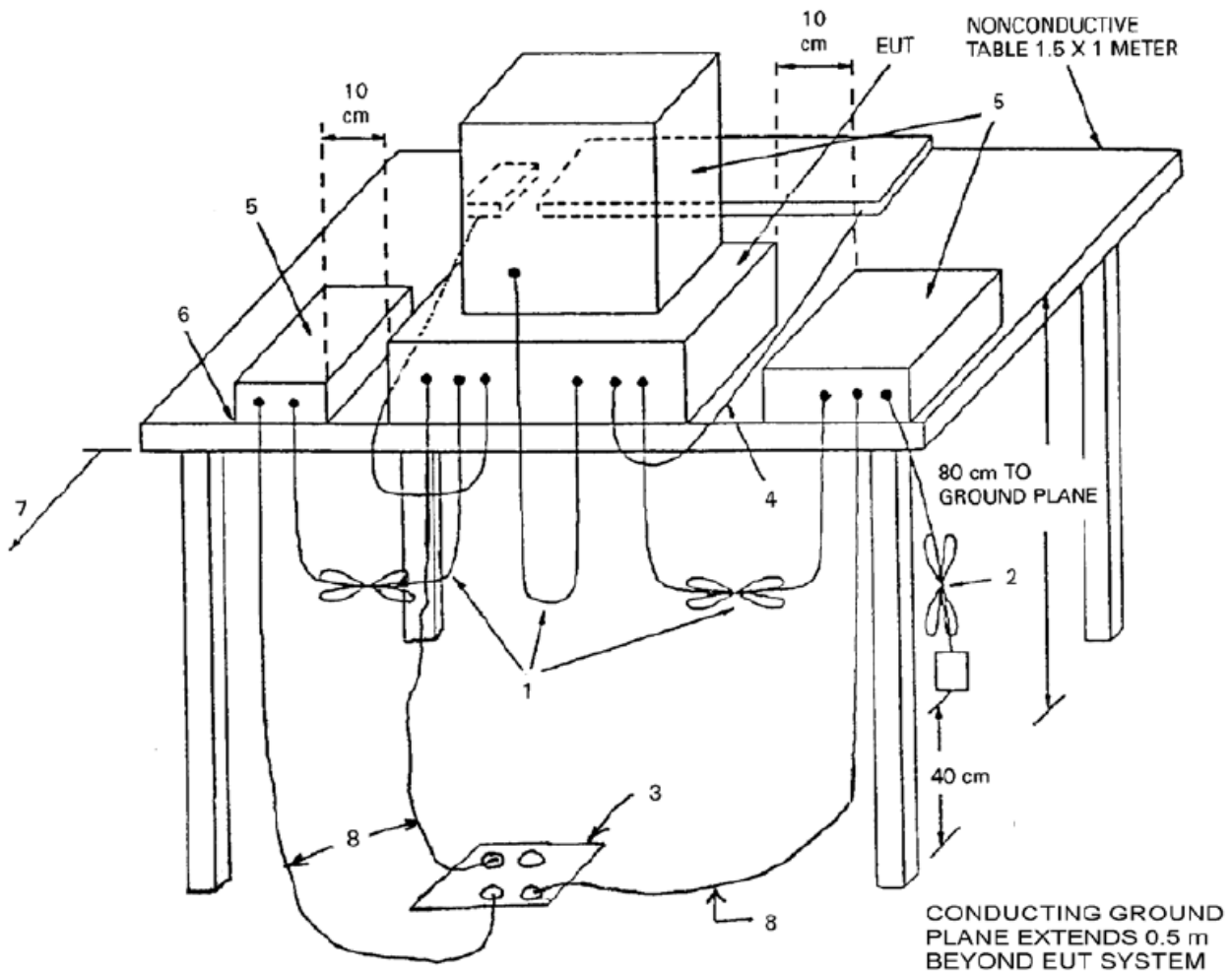
## 6. Radiated Emission Test

### 6.1. Measurement Procedure

1. EUT was placed on an 0.8m wooden table.
2. Set up EUT with support units and turn on the power of all equipment.
3. Link the EUT with Telecommunication tester, setup the test mode. The transmitter operating at continuously mode and max output rated power.
4. The receive antenna is placed at 10m(3m for above 1GHz) distance from the EUT and search height from 1-4m.
5. The turntable was slowly rotated to locate the direction of maximum emission. Once maximum direction is determined, the search antenna was raised and lowered in both vertical and horizontal polarizations.

### 6.2. Test SET-UP (Block Diagram of Configuration)





LEGEND:

1. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center, forming a bundle 30 cm to 40 cm long (see 6.2.5 and 11.5.5).
2. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated if required using the correct terminating impedance. The total length shall not exceed 1 m (see 6.2.5).
3. If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the ground plane with the receptacle flush with the ground plane (see 6.2.5).
4. Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal use (see 6.3.2.4 and 11.5.5).
5. Non-EUT components of EUT system being tested (see also Figure 7).
6. Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop (see 6.3.2.2 and 6.3.2.3).
7. No vertical conducting plane used (see 5.2.3).
8. Power cords drape to the floor and are routed over to receptacle (see 6.2.5).

**Figure 10 —Test arrangement for radiated emissions of tabletop equipment**

### 6.3. Measurement Equipment Used:

Location Chmb02	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Radiation (Chamber02)	BILOG Antenna 17	Schwarzbeck	Schwarzbeck VULB 9168+EMCI-N -6-05	645	03/02/2018	03/02/2019
Radiation (Chamber02)	Preamplifier 25	EMCI	EMC9135	980295	03/05/2018	03/05/2019
Radiation (Chamber02)	Coaxial Cable Chmb 02-10M-02	EMC	RG214U	Chmb 02-10M-02	08/30/2018	08/30/2019
Radiation (Chamber02)	EMI Receiver 12	ROHDE & SCHWARZ	ESCI	100804	08/21/2018	08/21/2019

Location Chmb14	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Rad. Above 1GHz	Spectrum Analyzer 24 (1G~26.5GHz)	Agilent	N9010A	MY49060537	08/29/2018	08/29/2019
Rad. Above 1GHz	Horn Antenna 13	ETS-Lindgren	3117	00161229	09/03/2018	09/03/2019
Rad. Above 1GHz	Preamplifier 13	MITEQ	AFS44-001018 00-25-10P-44	1329256	10/26/2018	10/26/2019
Rad. Above 1GHz	Microwave Cable 32	AGILENT	A1K50-UP035 8	A1K50-80C M 2	09/21/2018	09/21/2019
Rad. Above 1GHz	Microwave Cable 33	AGILENT	A1K50-UP035 8	N1K50-600C M 2	09/21/2018	09/21/2019

#### 6.4. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$\mathbf{FS = RA + AF + CL - AG}$$

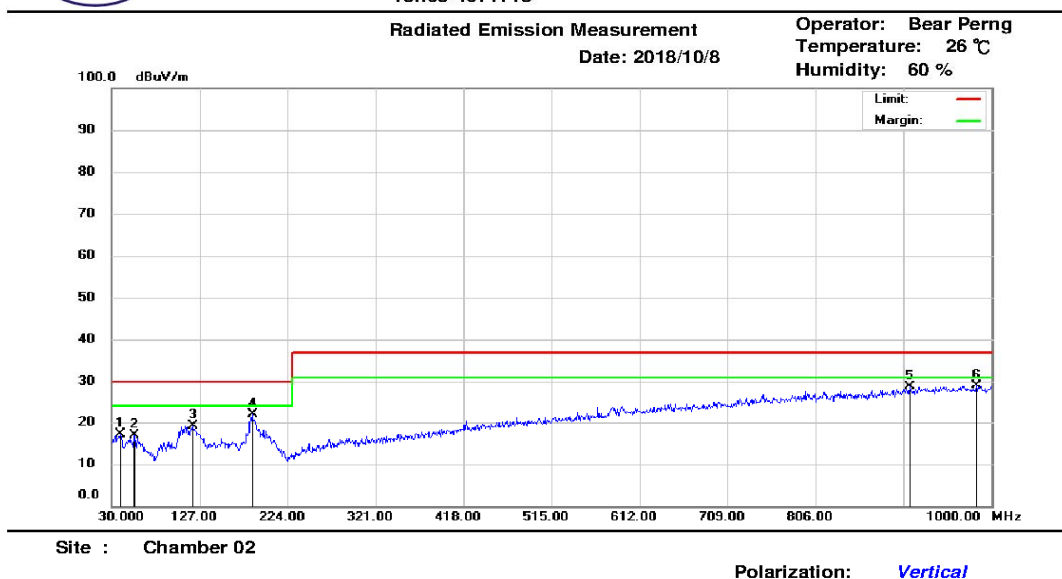
Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

## 6.5. Measurement Result:

Operation Mode	Config 1	Test Date	2018/10/08
Test by	Jason	Pol	Vertical



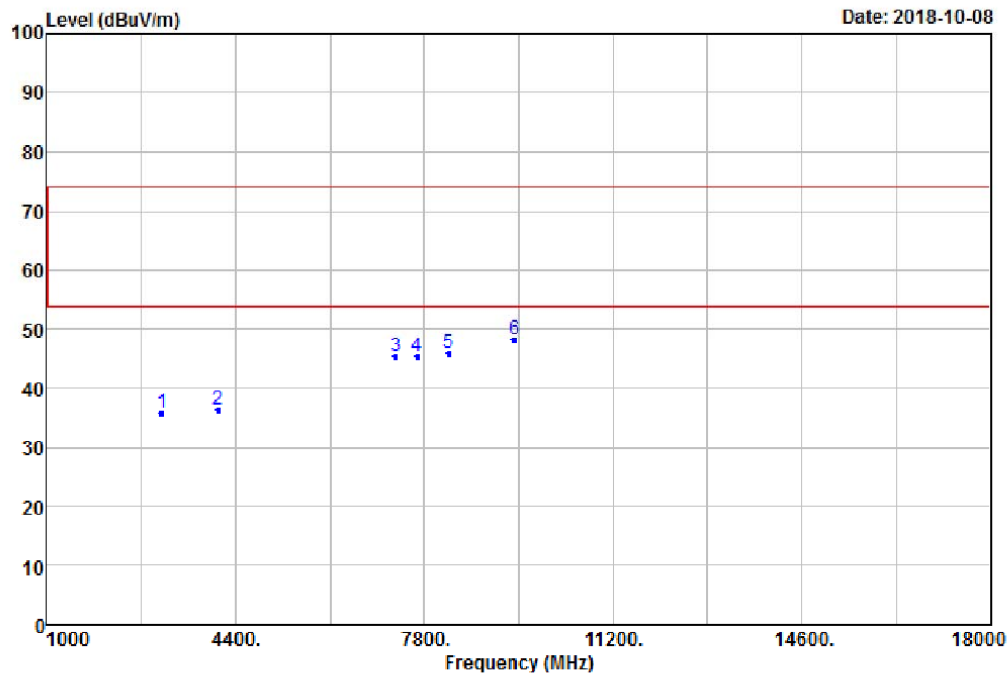
Address: No. 120, Lane 180, Hsin Ho Rd., Lung-Tan Dist.,  
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Tel: 03-4071718



Mk.	Frequency (MHz)	RX R (dBuV)	Correct Factor (dB/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.Pos (cm)	Tab.Pos (deg.)	Detector
1	39.70	34.87	-17.70	17.17	30.00	-12.83	150	21	peak
2	55.22	33.77	-16.99	16.78	30.00	-13.22	116	0	peak
3	120.21	37.44	-18.26	19.18	30.00	-10.82	100	290	peak
4	185.20	39.51	-17.67	21.84	30.00	-8.16	150	163	peak
5	909.79	31.42	-2.91	28.51	37.00	-8.49	100	305	peak
6	983.51	30.83	-1.91	28.92	37.00	-8.08	350	274	peak



International Standard Laborator  
Company Address: No.120, Lane 180, San Ho tsuen Hsin Ho Road  
Lung-Tan Hsiang Tao Yuan Count, Taiwan, ROC  
Tel: (03)4071718  
Fax: (03)4071738  
Web: www.isl.com.tw



Condition: FCC CLASS B 3M PK 3m VERTICAL

Site : Chamber 19

Model : BM832

Test Mode: Config 1

Operator : jason

Temp : 25

Hum : 53

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	3074.00	50.09	-14.39	35.70	74.00	-38.30	Peak	VERTICAL
2	4077.00	47.96	-11.72	36.24	74.00	-37.76	Peak	VERTICAL
3	7290.00	46.99	-1.65	45.34	74.00	-28.66	Peak	VERTICAL
4	7664.00	46.77	-1.47	45.30	74.00	-28.70	Peak	VERTICAL
5	8242.00	46.17	-0.31	45.86	74.00	-28.14	Peak	VERTICAL
6	9415.00	45.33	2.86	48.19	74.00	-25.81	Peak	VERTICAL

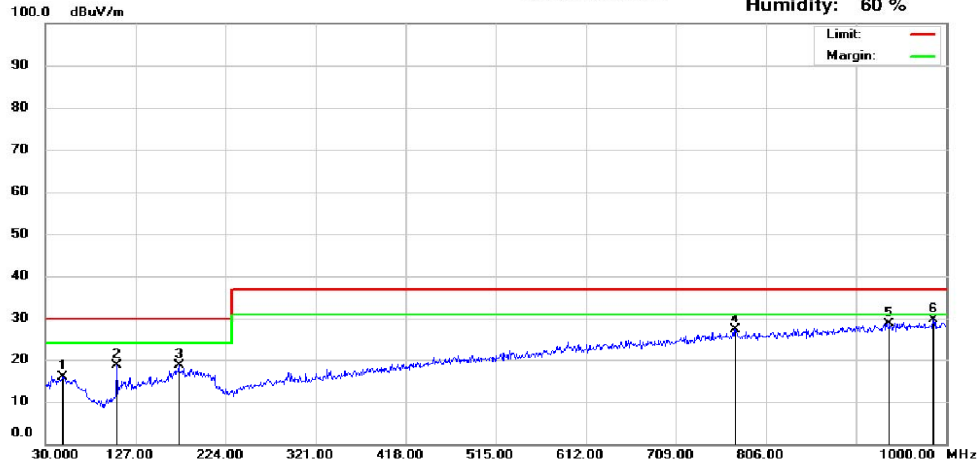
Operation Mode	Config 1	Test Date	2018/10/08
Test by	Jason	Pol	Horizontal



Address: No. 120, Lane 180, Hsin Ho Rd., Lung-Tan Dist.,  
Tao Yuan City 325, Taiwan.  
Tel: 03-4071718

Radiated Emission Measurement  
Date: 2018/10/8

Operator: Bear Perng  
Temperature: 26 °C  
Humidity: 60 %



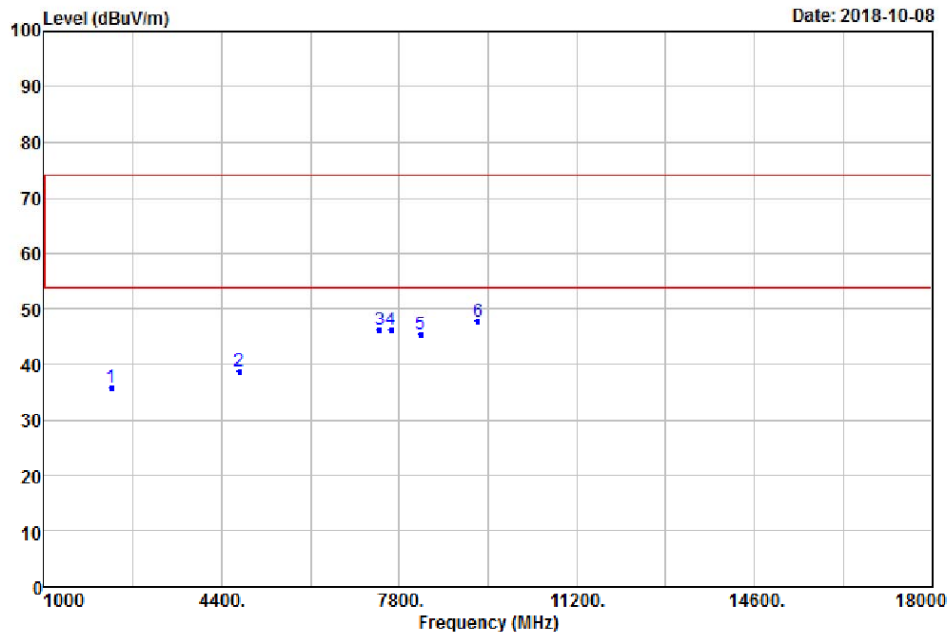
Site : Chamber 02

Polarization: *Horizontal*

Mk.	Frequency (MHz)	RX_R (dBuV)	Correct Factor(dB/m)	Emission (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Ant.Pos (cm)	Tab.Pos (deg.)	Detector
1	48.43	32.86	-16.93	15.93	30.00	-14.07	150	96	peak
2	106.63	38.39	-19.86	18.53	30.00	-11.47	350	1	peak
3	173.56	35.07	-16.35	18.72	30.00	-11.28	400	1	peak
4	773.02	31.71	-4.51	27.20	37.00	-9.80	382	360	peak
5	938.89	31.00	-2.48	28.52	37.00	-8.48	350	142	peak
6	986.42	31.62	-1.88	29.74	37.00	-7.26	400	294	peak



International Standard Laborator  
Company Address:No.120,Lane 180, San Ho tsuen Hsin Ho Road  
Lung-Tan Hsiang Tao Yuan Count, Taiwan,ROC  
Tel:(03)4071718  
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Web:www.isl.com.tw



Condition: FCC CLASS B 3M PK 3m HORIZONTAL  
Site : Chamber 19  
Model : BM832  
Test Mode: Config 1  
Operator : jason  
Temp : 25  
Hum : 53

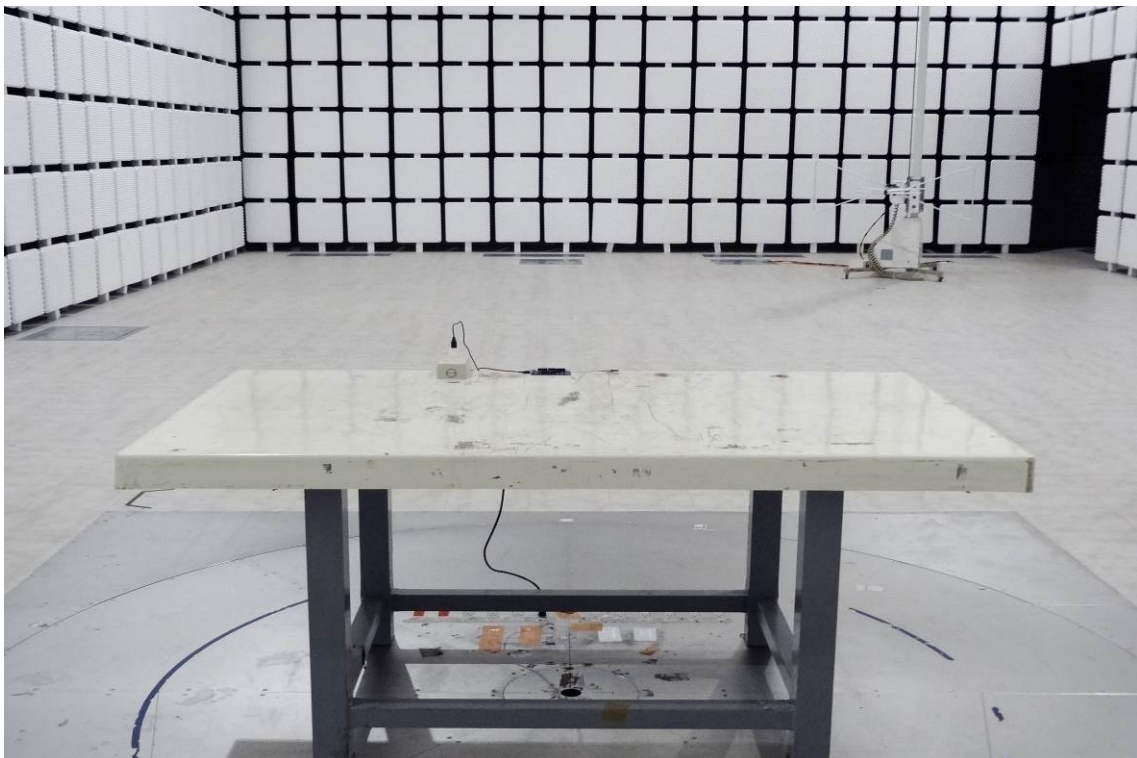
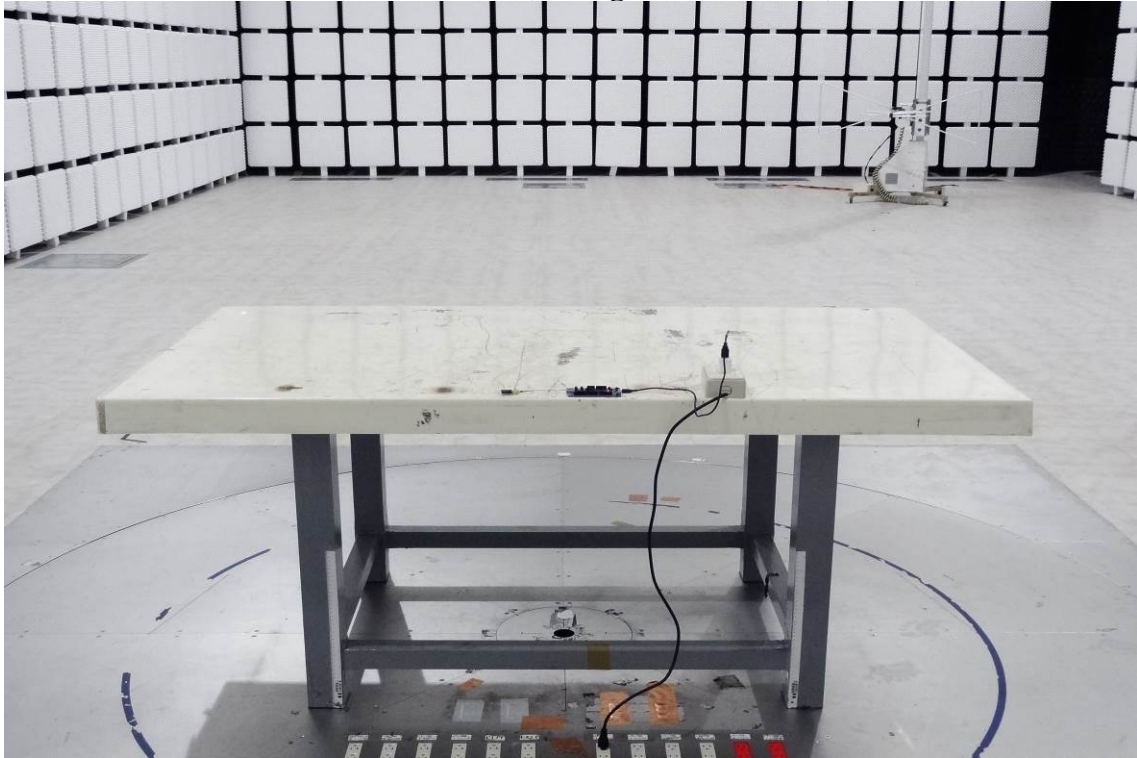
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2292.00	51.35	-15.62	35.73	74.00	-38.27	Peak	HORIZONTAL
2	4740.00	48.12	-9.46	38.66	74.00	-35.34	Peak	HORIZONTAL
3	7426.00	47.71	-1.61	46.10	74.00	-27.90	Peak	HORIZONTAL
4	7647.00	47.69	-1.51	46.18	74.00	-27.82	Peak	HORIZONTAL
5	8208.00	45.85	-0.39	45.46	74.00	-28.54	Peak	HORIZONTAL
6	9313.00	45.03	2.63	47.66	74.00	-26.34	Peak	HORIZONTAL



# **APPENDIX 1**

## **PHOTOGRAPHS OF SET UP**

**RADIATED EMISSION TEST (Config 1 under 1GHz) (PCB Antenna)**

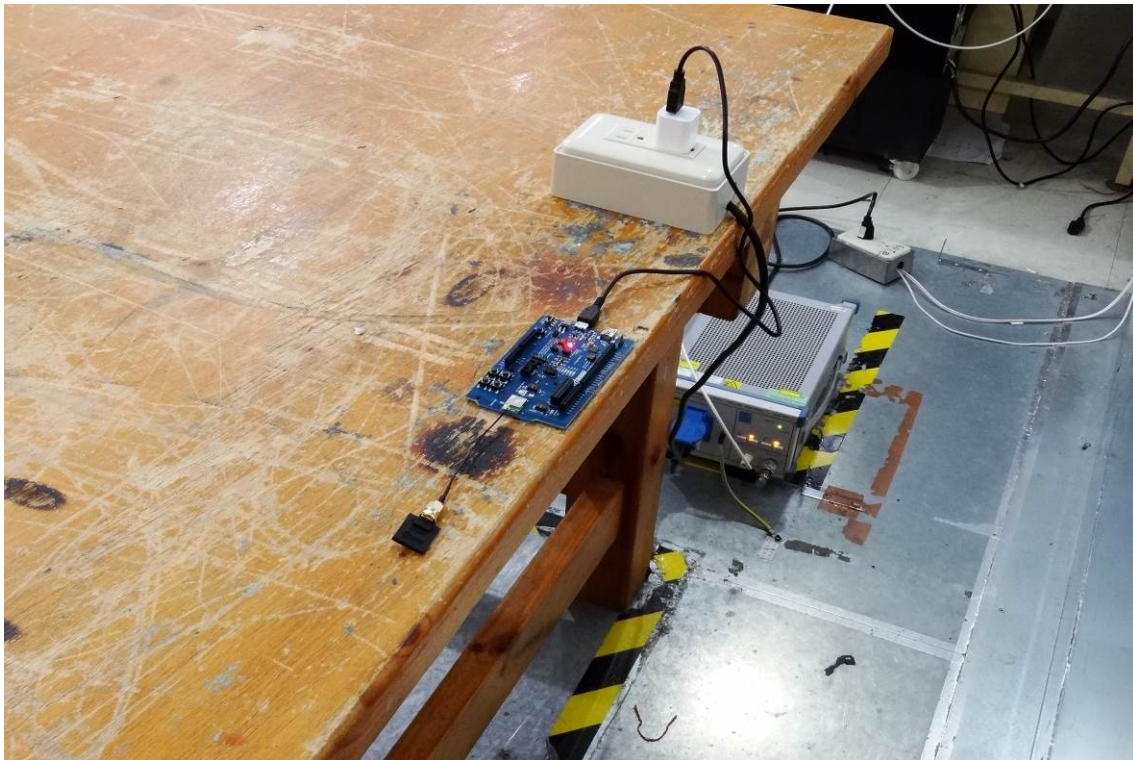


**RADIATED EMISSION TEST (Config 1 above 1GHz)**





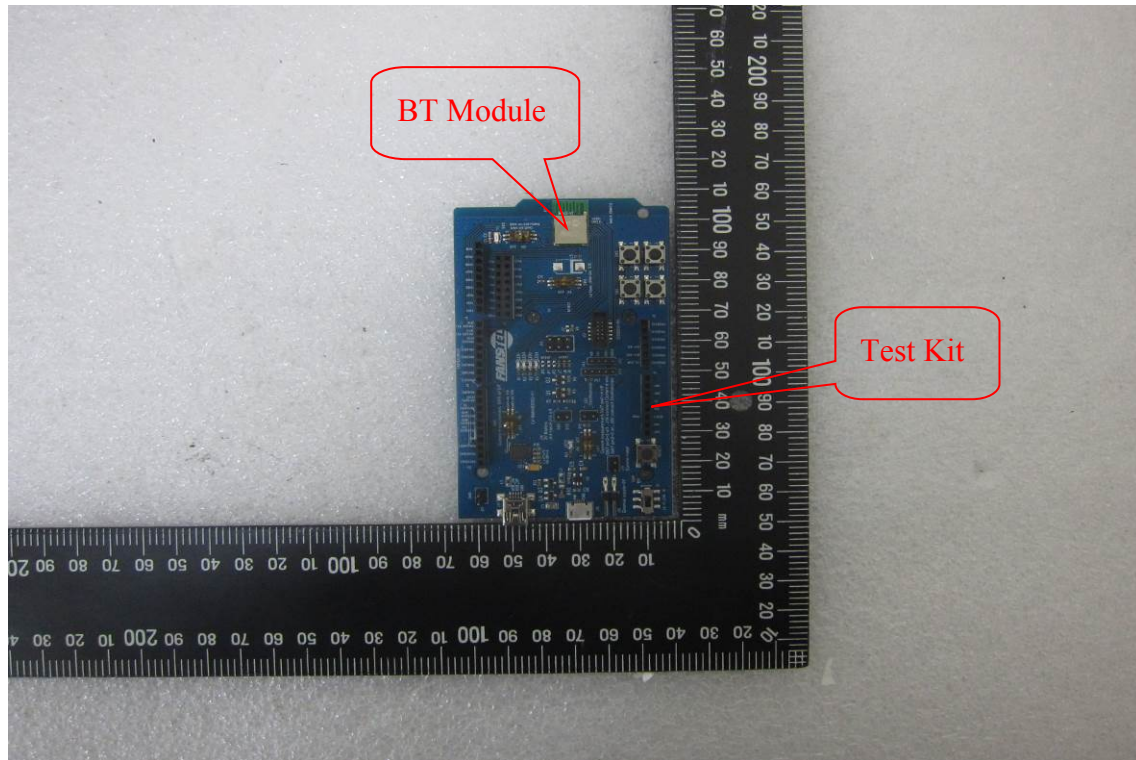
## Conducted Emission Setup Photos



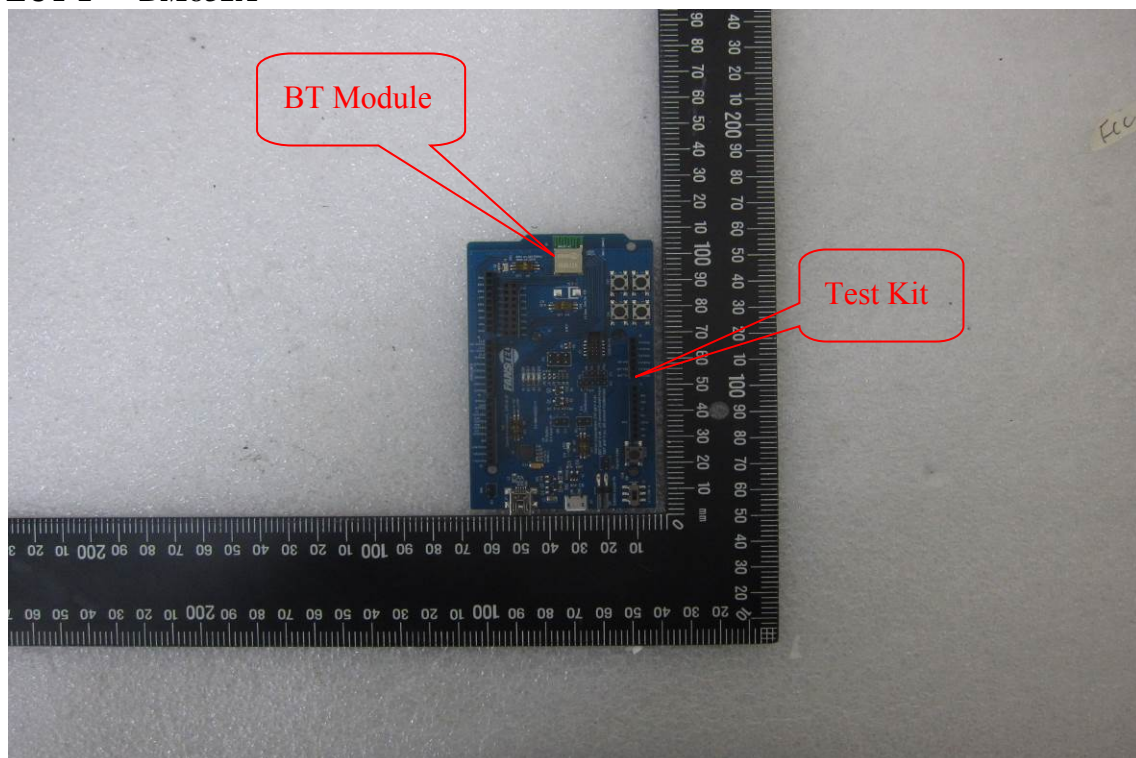
## **APPENDIX 2**

# **PHOTOGRAPHS OF EUT**

**EUT 1 BM832**

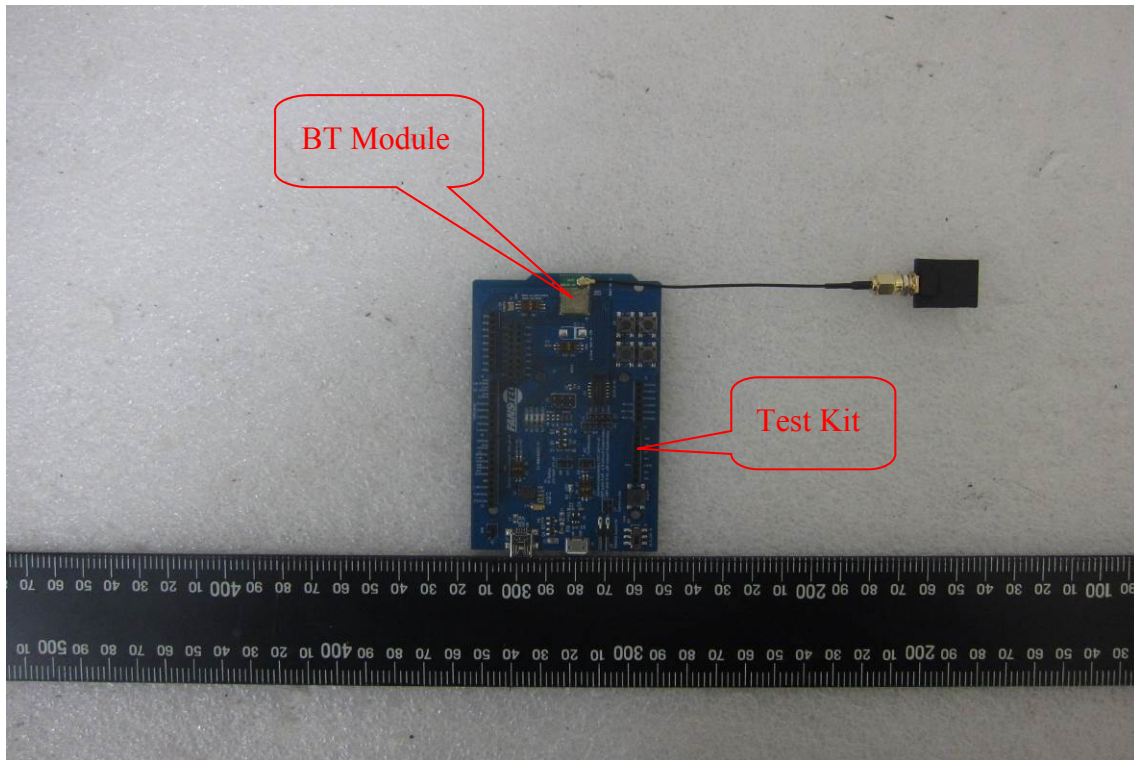


**EUT 2 BM832A**

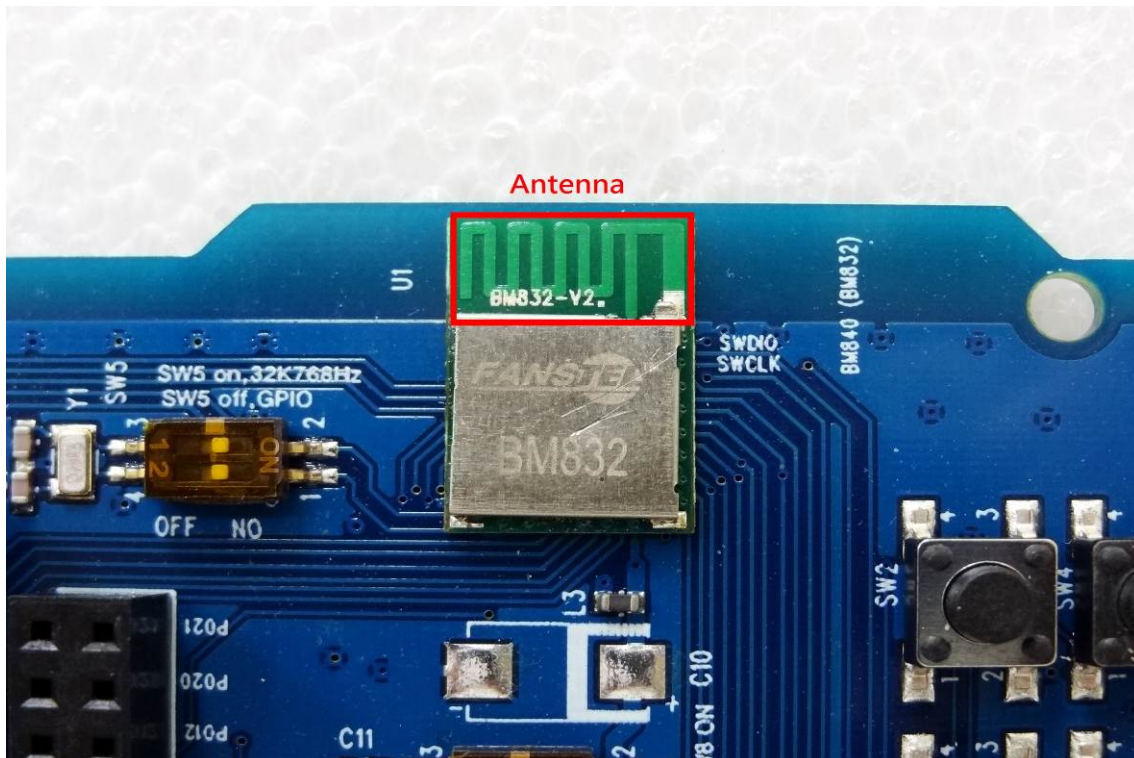




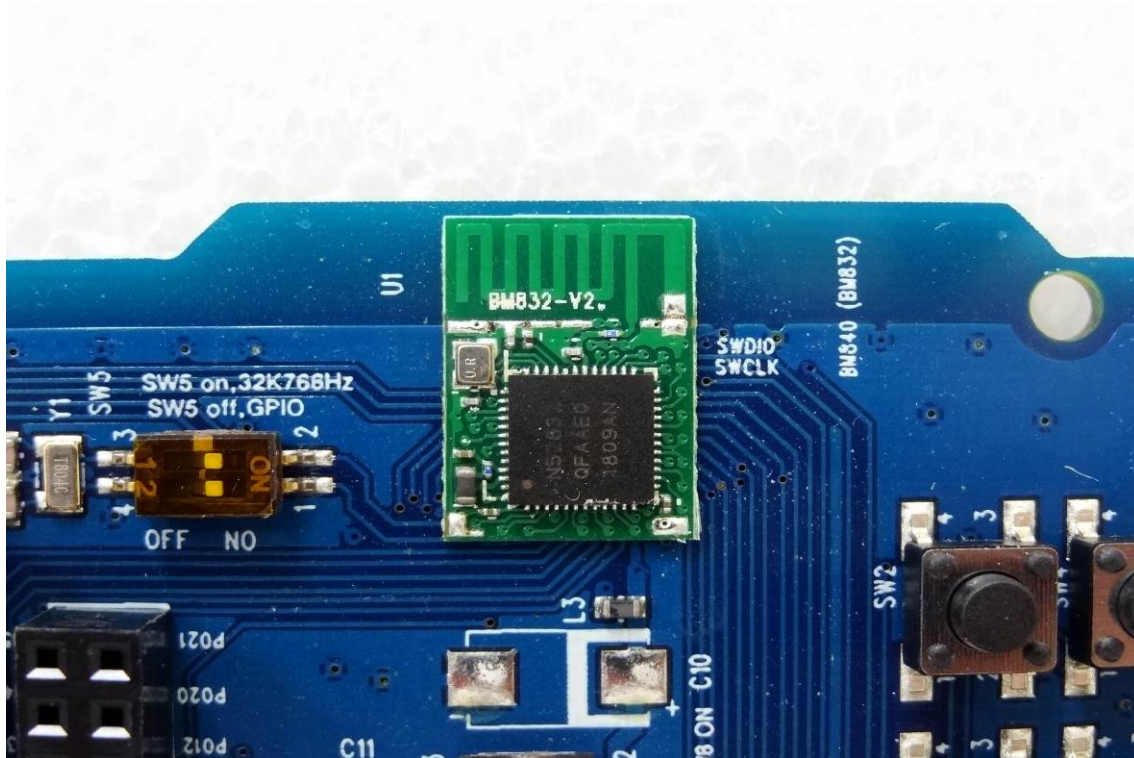
**EUT 3 BM832E**



**EUT 4 BM832**



**EUT 5 BM832**

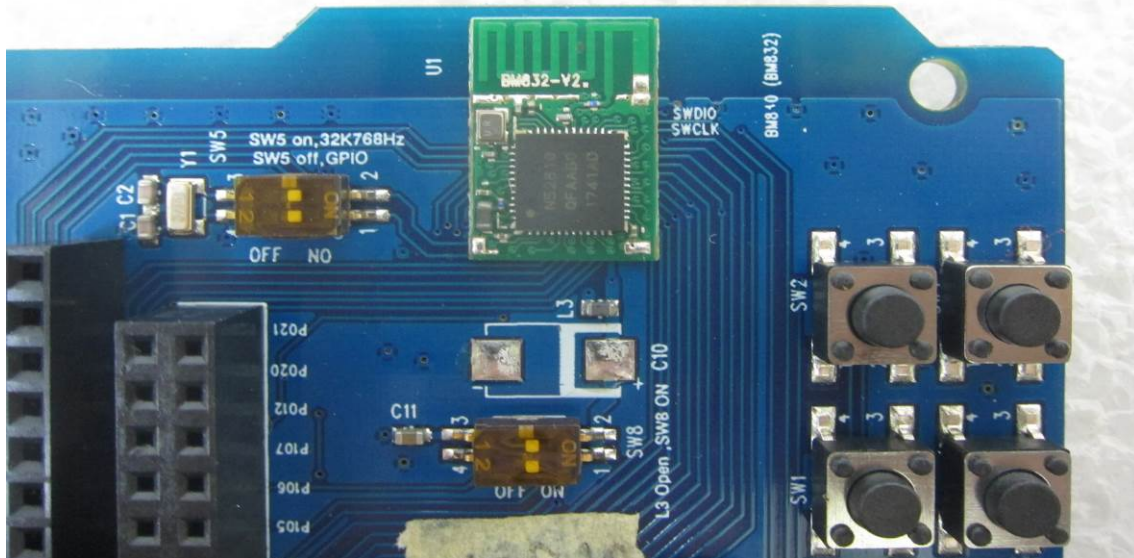


**EUT 6 BM832A**





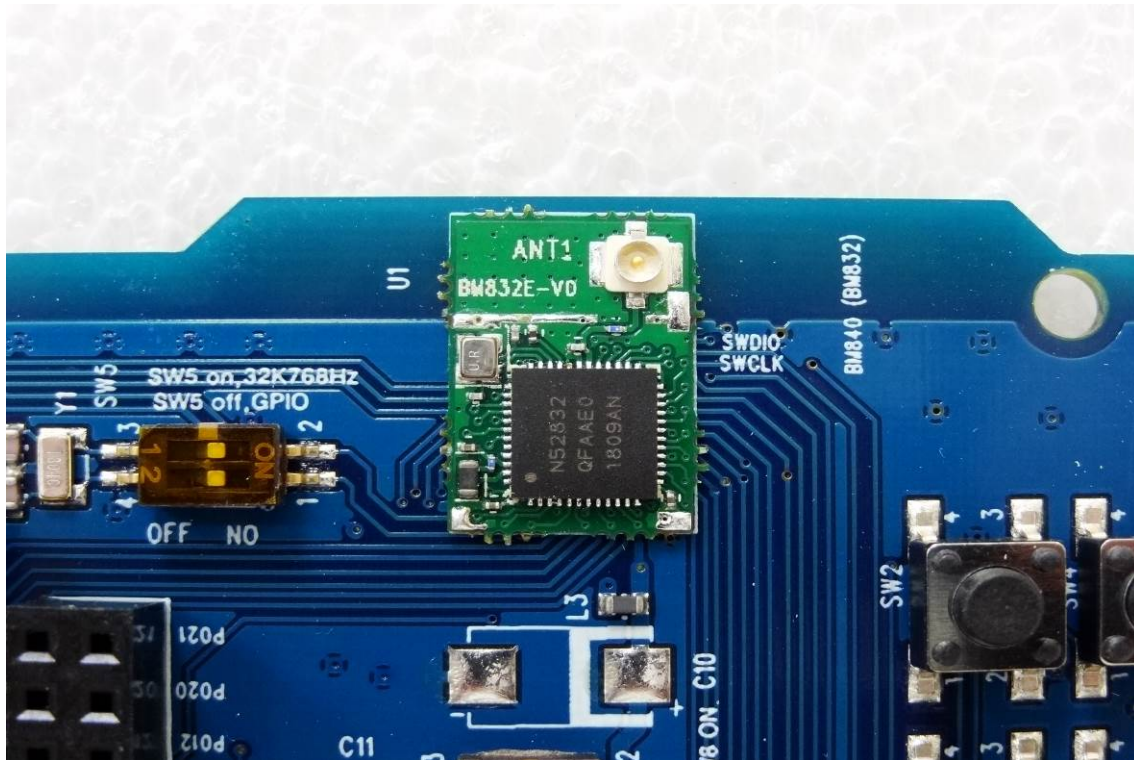
**EUT 7 BM832A**



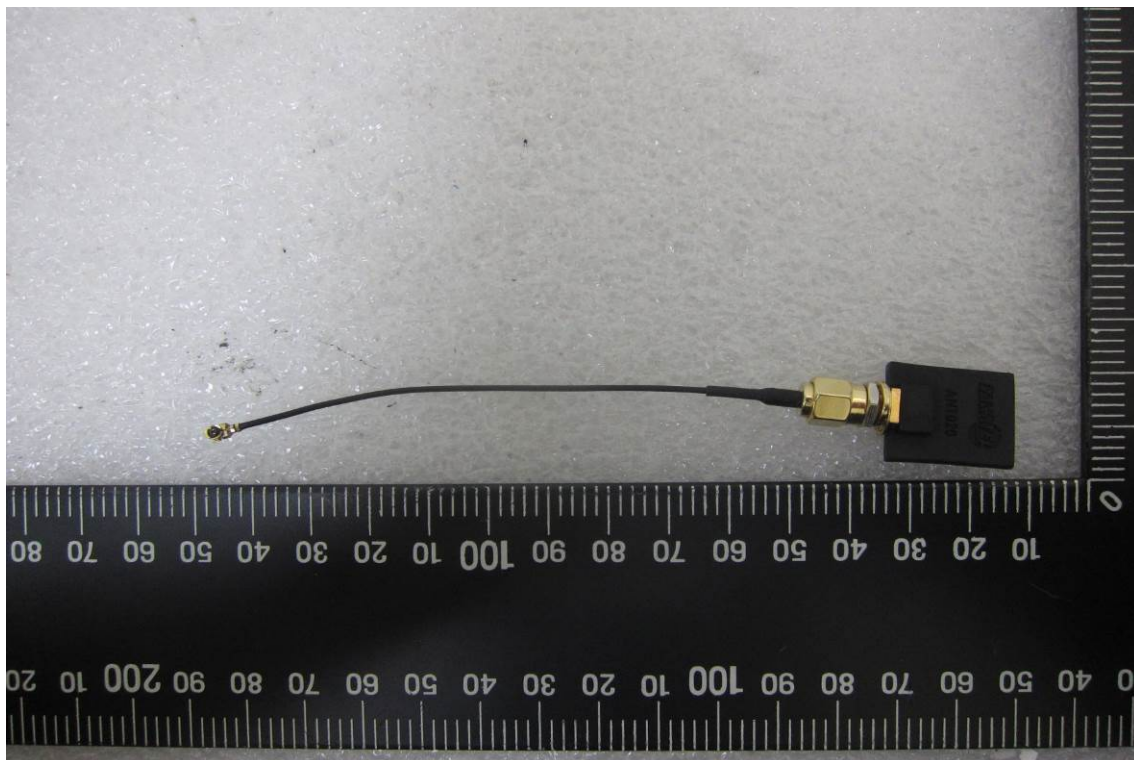
**EUT 8 BM832E**



**EUT 9 BM832E**



**EUT 10 BM832E Antenna**



~ End of Report ~