
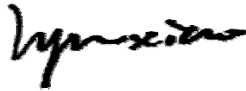
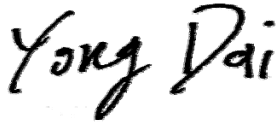


TEST REPORT

Report No.:	E201606147272-1	Application No.:	E201606147272
Client:	Building 36 Technologies, LLC		
Address:	460 Hillside Avenue, Suite 300, Needham, MA 02494		
Sample Description:	Temperature sensor		
Model:	B36-S10		
FCC ID:	2AC3T-B36S10RA		
Test Specification:	FCC Part 15, Subpart C:2015(15.249)		
Test Date:	2016-06-21 to 2016-06-21		
Issue Date:	2016-06-21		
Test Result:	Pass.		
Prepared By:	Reviewed By:	Approved By:	
Brian Xiao / Test Engineer	Lynn Xiao / Technical Manager	Yong Dai / Manager	
			
Date:2016-06-21	Date:2016-06-21	Date:2016-06-21	
Other Aspects:			
None			
Abbreviations: ok / P = passed; fail / F = failed; n.a. / N = not applicable			
The test result in this test report refers exclusively to the presented test sample. This report shall not be reproduced except in full, without the written approval of GRGT.			

GRG Metrology and Test Technology Co., Ltd.

Address: 163, Pingyun Road, West of Huangpu Avenue, Guangzhou, Guangdong, P.R. China

Tel:+86-20-38699960

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Email: emc@grg.net.cn

http://www.grgtest.com

Ver.:2.0/ 01. Jan. 2011

DIRECTIONS OF TEST

- 1. This station carries out test task according to the national regulation of verifications which can be traced to National Primary Standards and BIPM.**

- 2. The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.**

- 3. If there is any objection concerning the test, the client should inform the laboratory within 15 days from the date of receiving the test report.**

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1. TEST RESULT SUMMARY

FCC Part 15,Subpart C:2015(15.249)			
Standard	Item	Limit / Severity	Result
FCC Part 15,Subpart C:2015(15.249)	Antenna Requirement	FCC Part 15.203	PASS
	Intentional radiators Field Strength	FCC Part 15.249(a)	PASS
	Radiated Electromagnetic Disturbance	FCC Part 15.249 (e)	PASS
	Conduction Emissions	/	N/A(Note)
	Out of Band Emissions	FCC Part 15.249(d)	PASS

Note: The EUT is own DC 3.0V battery supply

2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name: Building 36 Technologies, LLC
Address: 460 Hillside Avenue, Suite 300, Needham, MA 02494

2.2 MANUFACTURER

Name: ZhuHai Herald Datanetics Limited
Address: No.1 PingXi Road 6. Nanping Science and Technology Industrial Park,
Zhuhai, Guangdong, China

2.3 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment: Temperature sensor
Model No.: B36-S10
Trade Name: Building36
Power Supply: DC 3.0V
Frequency 908.4MHz
Channel number /
Note: /

2.4 TEST OPERATION MODES

Test mode: Mode 1:continuous transmission

2.5 LOCAL SUPPORTIVE INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number
/	/	/	/

3. LABORATORY AND ACCREDITATIONS

3.1 LABORATORY

The tests and measurements refer to this report were performed by EMC Laboratory of Guangzhou GRG Metrology and Test Co., Ltd.

Add. : 163 Pingyun Rd, West of Huangpu Ave, Guangzhou, 510656, P. R. China

Telephone: +86-20-38699959, 38699960, 38699961

Fax : +86-20-38695185

3.2 ACCREDITATIONS

USA	FCC Listed Lab No. 688188
Canada	Registration No.:8355A-1

3.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement		Frequency	Uncertainty
Radiated Emission	Horizontal	30MHz~1000MHz	4.2dB
	Horizontal	1GHz~18GHz	4.2dB
	Vertical	30MHz~1000MHz	4.4dB
	Vertical	1GHz~18GHz	4.4dB

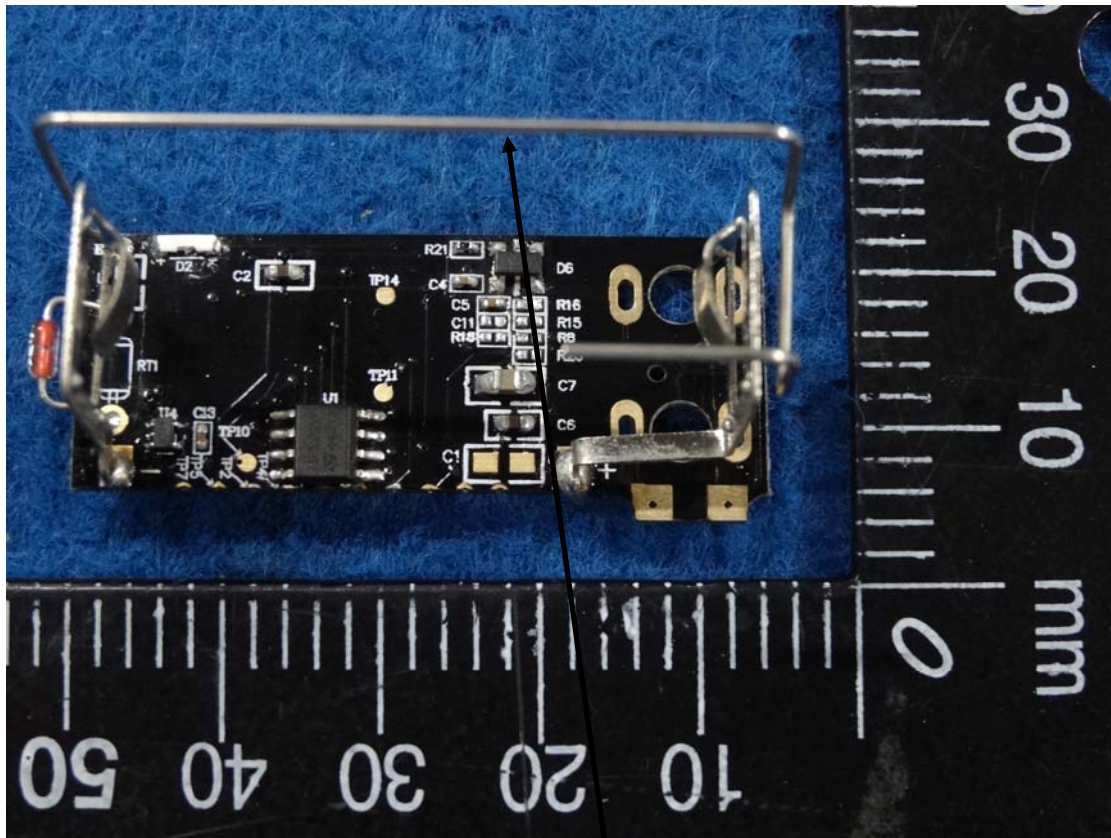
This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

3.4 LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Radiated Emission				
Bi-Log Antenna	ETS-LINDGREN	3142C	75971	2017-03-14
EMI Receiver	Rohde & Schwarz	ESU40	100106	2016-12-27
Horn Antenna	SCHWARZBECK	BBHA 9120 D	752	2017-02-03
Intentional radiators Field Strength				
EMI Receiver	Rohde & Schwarz	ESU40	100106	2016-12-27
Bi-Log Antenna	ETS-LINDGREN	3142C	75971	2017-03-14
Out of Band Emissions				
EMI Receiver	Rohde & Schwarz	ESU40	100106	2016-12-27
Bi-Log Antenna	ETS-LINDGREN	3142C	75971	2017-03-14

4. ANTENNA REQUIREMENT

The EUT antenna is PCB Printed antenna. Antenna gain is -0.5dBi, which accordance 15.203, is considered sufficient to comply with the provisions of this section.



Antenna

5. EMISSION TEST

5.1 INTENTIONAL RADIATORS FIELD STRENGTH

5.1.1 LIMITS

Frequency (MHz)	Field Strength
908.4	50(millivolts/meter)
Field Strength of Harmonics	500(microvolts/meter)

5.1.2 TEST PROCEDURE

Procedure of Test

Radiated emission tests shall be made with the receive or transmit antenna located at a horizontal distance of 3 m plus half of the maximum width of the EUT being tested, measured from the centre of the EUT. The tests shall be performed with the equipment configured as closely as possible to its typical, practical operation. Unless stated otherwise, cables and wiring shall be as specified by the manufacturer and the equipment shall be in its housing (or cabinet) with all covers and access panels in place. Any deviation from normal EUT operating conditions shall be included in the test report.

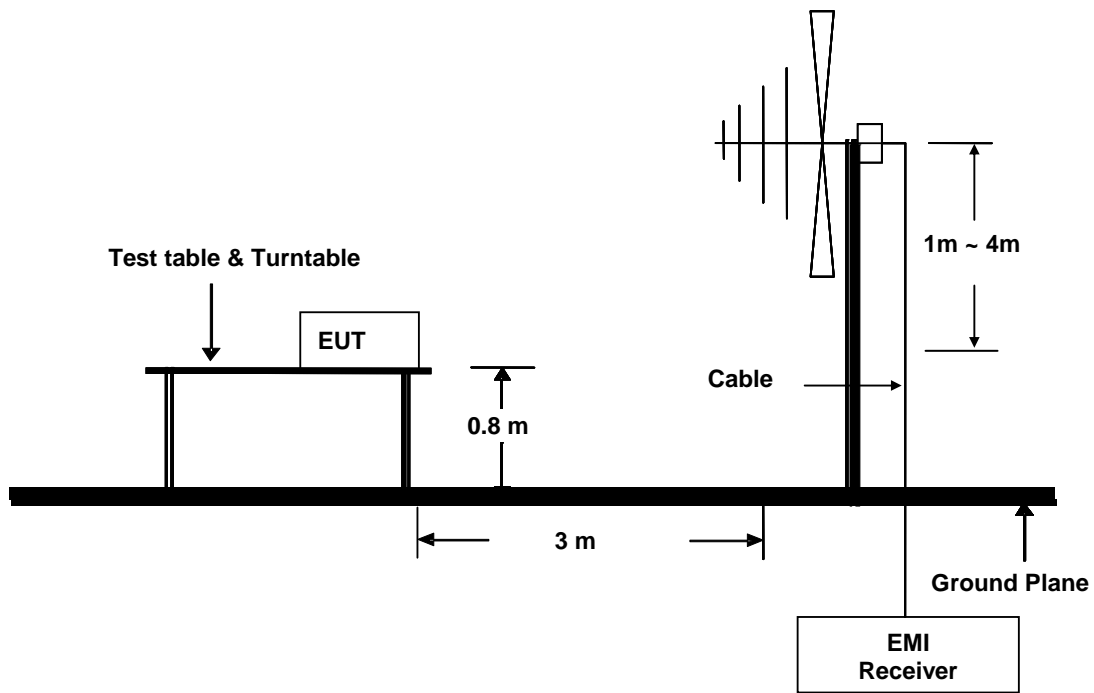
The EUT (on a non-conductive support structure, where applicable) shall be placed on a remotely operated turntable, to allow the EUT to be rotated. The height of the EUT above the ground plane shall be according to the following requirements.

- Table-top equipment is placed on a non-conductive set-up table with height $0,8\text{ m} \pm 0,01\text{ m}$, ANSI C63.10:2013 specifies the method to determine the impact of the non-conductive set-up table on test results.
- Floor-standing equipment is placed on a non-conductive support, as specified in the applicable product standard. If there are no EUT height placement requirements in the product standard, the EUT shall be placed on a non-conductive support at a height of 5 cm to 15 cm above the ground plane.

Interface cables, loads, and devices should be connected to at least one of each type of the interface ports of the EUT and, where practical, each cable shall be terminated in a device typical for its actual use. Where there are multiple interface ports of the same type, a typical number of these devices shall be connected to devices or loads. It is sufficient to connect only one of the loads, provided that it can be shown, for example by preliminary testing, that the connection of further ports would not significantly increase the level of disturbance (that is, more than 2 dB) or significantly degrade the immunity level.

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the test.

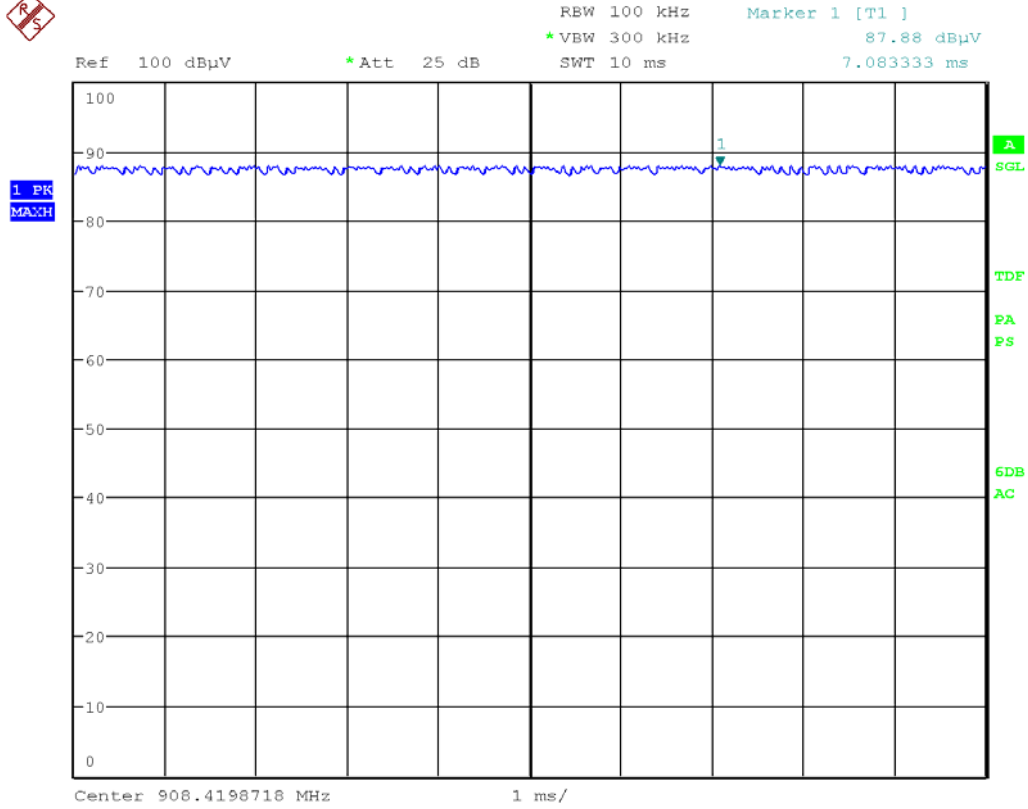
5.1.3 TEST SETUP



5.1.4 TEST RESULTS

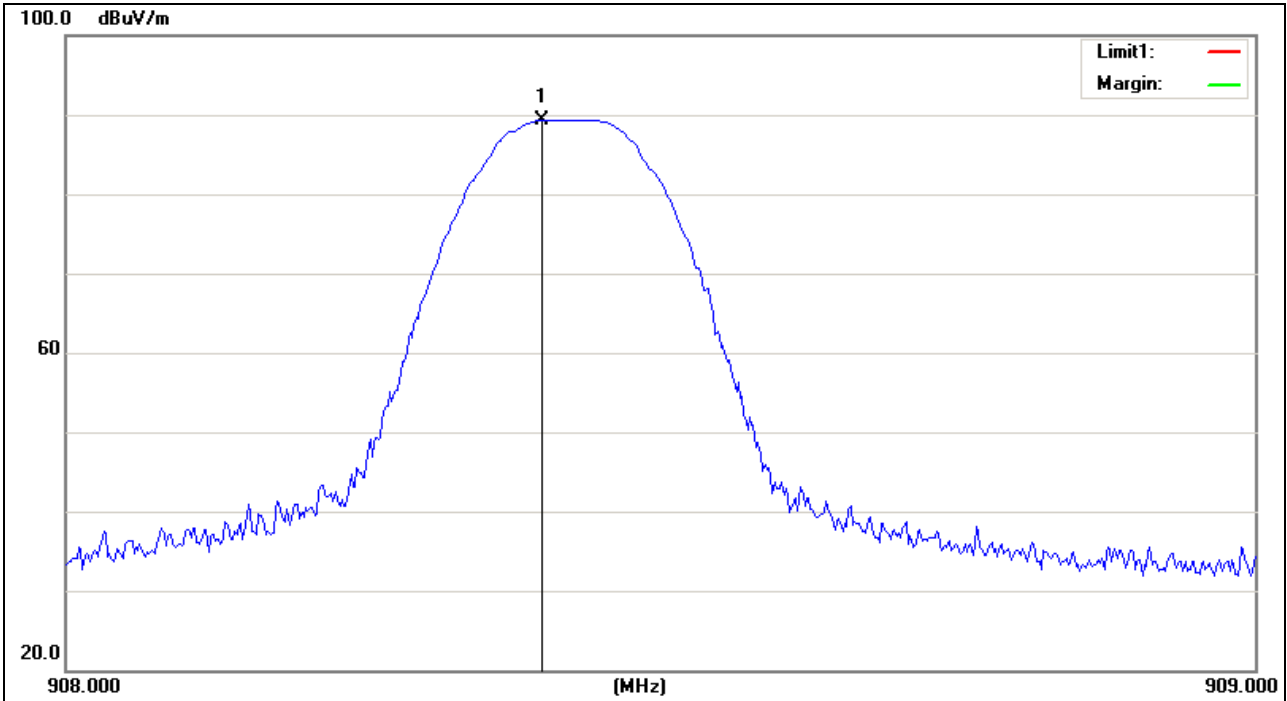
The field strength was measured with an EMI measuring receiver.
Set 100kHz RBW/VBW for Peak detector at a distance of 3m.
Set 120kHz RBW/VBW for QP detector at a distance of 3m.

Duty Cycle:



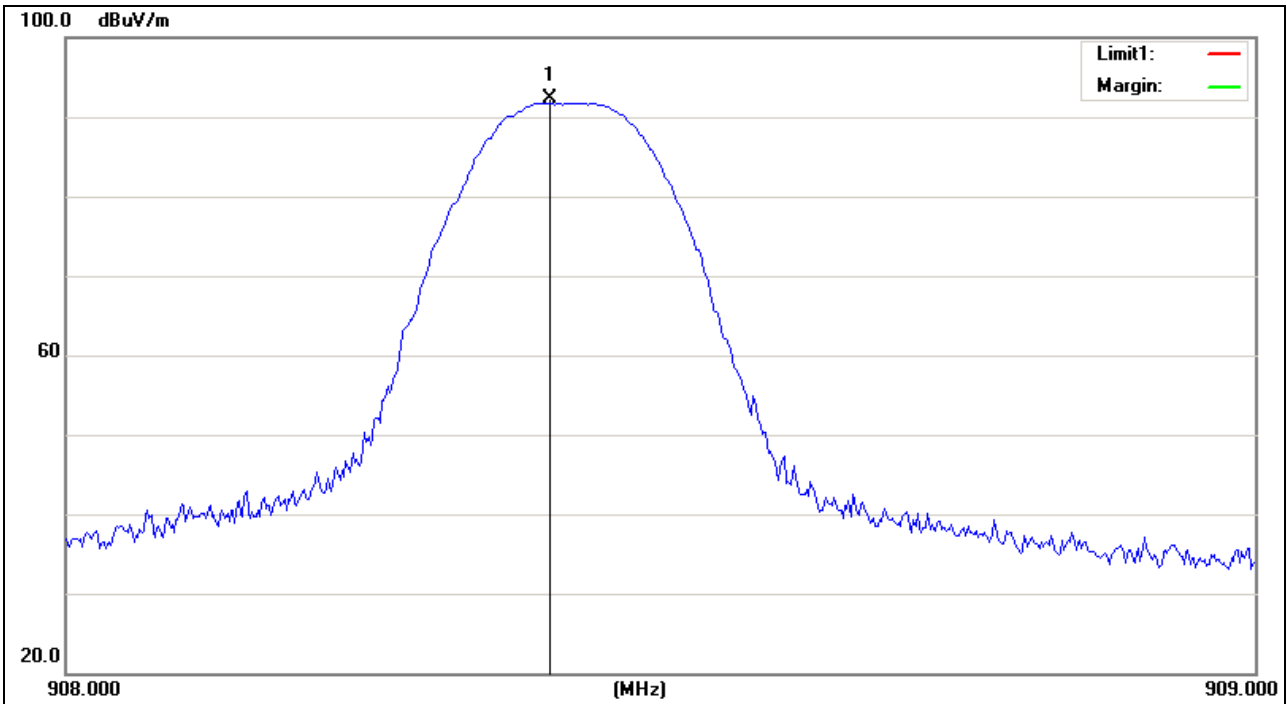
So, the EUT Duty Cycle is 100%.

Project No.:	E201507301661	Polarziation:	Vertical
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	DC 3V
Test item:	Radiation Test	Date:	2016-6-21
Temp./Hum.(%RH):	21.0°C/55.0%RH	Time:	12:26:38
EUT:	Temperature sensor	Distance:	3m
Model:	B36-S10	Test Result:	Pass
Note:			
Test Engineer	Brian Xiao		



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	908.4006	62.33	26.97	89.30	94.00	-4.70	QP

Project No.:	E201507301661	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	DC 3V
Test item:	Radiation Test	Date:	2016-6-21
Temp./Hum.(%RH):	21.0°C/55.0%RH	Time:	12:28:37
EUT:	Temperature sensor	Distance:	3m
Model:	B36-S10	Test Result:	Pass
Note:			
Test Engineer	Brian Xiao		



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	908.4054	65.43	26.97	92.40	94.00	-1.60	QP

5.2 RADIATED ELECTROMAGNETIC DISTURBANCE

5.2.1 LIMITS

Frequency (MHz)	Quasi-peak(dB μ V/m)
30 ~ 88	40
88~216	43.5
216 ~ 960	46
Above 960	54

NOTE: (1) The lower limit shall apply at the transition frequencies.

Frequency (GHz)	PEAK and AVG(dB μ V/m)
Above 1G	74 PEAK
Above 1G	54 AVG

5.2.2 TEST PROCEDURES

Procedure of Preliminary Test

Radiated emission tests shall be made with the receive or transmit antenna located at a horizontal distance of 3 m plus half of the maximum width of the EUT being tested, measured from the centre of the EUT. The tests shall be performed with the equipment configured as closely as possible to its typical, practical operation. Unless stated otherwise, cables and wiring shall be as specified by the manufacturer and the equipment shall be in its housing (or cabinet) with all covers and access panels in place. Any deviation from normal EUT operating conditions shall be included in the test report.

The EUT (on a non-conductive support structure, where applicable) shall be placed on a remotely operated turntable, to allow the EUT to be rotated. The height of the EUT above the ground plane shall be according to the following requirements.

- Table-top equipment is placed on a non-conductive set-up table with height 0,8 m \pm 0,01 m for emission measurement below 1GHz and for emission measurements above 1 GHz, the EUT shall be placed at height 1.5m, ANSI C63.10:2013 specifies the method to determine the impact of the non-conductive set-up table on test results.
- Floor-standing equipment is placed on a non-conductive support, as specified in the applicable product standard. If there are no EUT height placement requirements in the product standard, the EUT shall be placed on a non-conductive support at a height of 5 cm to 15 cm above the ground plane.

Interface cables, loads, and devices should be connected to at least one of each type of the interface ports of the EUT and, where practical, each cable shall be terminated in a device typical for its actual use. Where there are multiple interface ports of the same type, a typical number of these devices shall be connected to devices or loads. It is sufficient to connect only one of the loads, provided that it can be shown, for example by preliminary testing, that the connection of further ports would not significantly increase the level of disturbance (that is, more than 2 dB) or significantly degrade the immunity level.

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

Procedure of Final Test

EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test. The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level. Record at least six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only QP reading is presented. The test data of the worst-case condition(s) was recorded.

Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

5.2.3 TEST SETUP

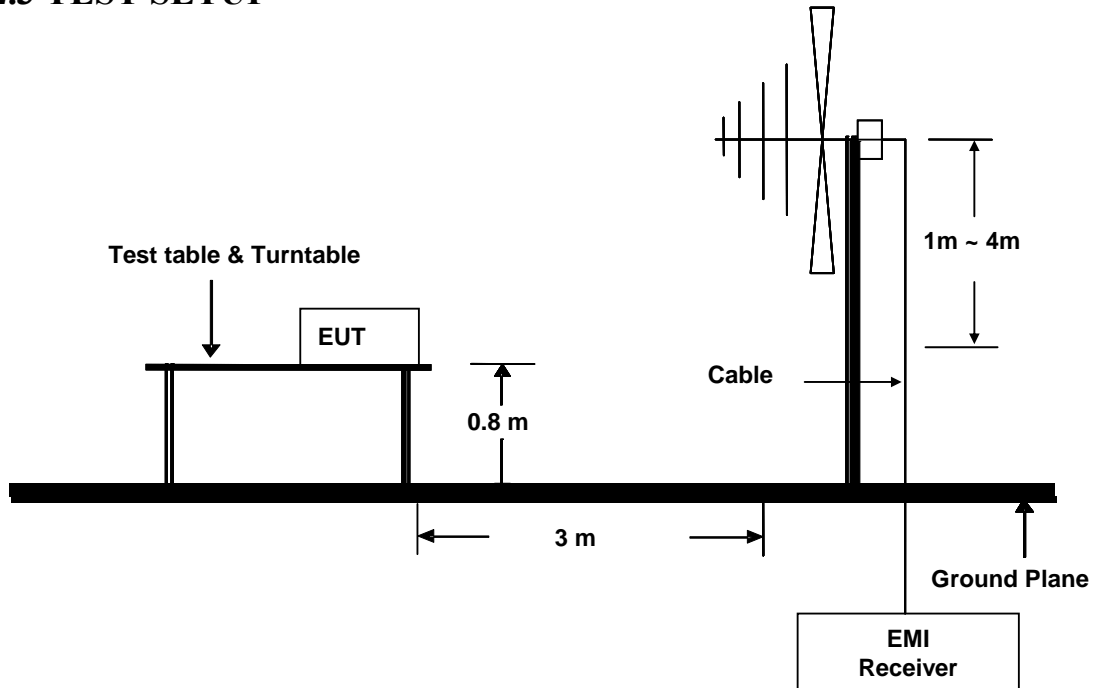


Figure 1. 30MHz to 1GHz radiated emissions test configuration

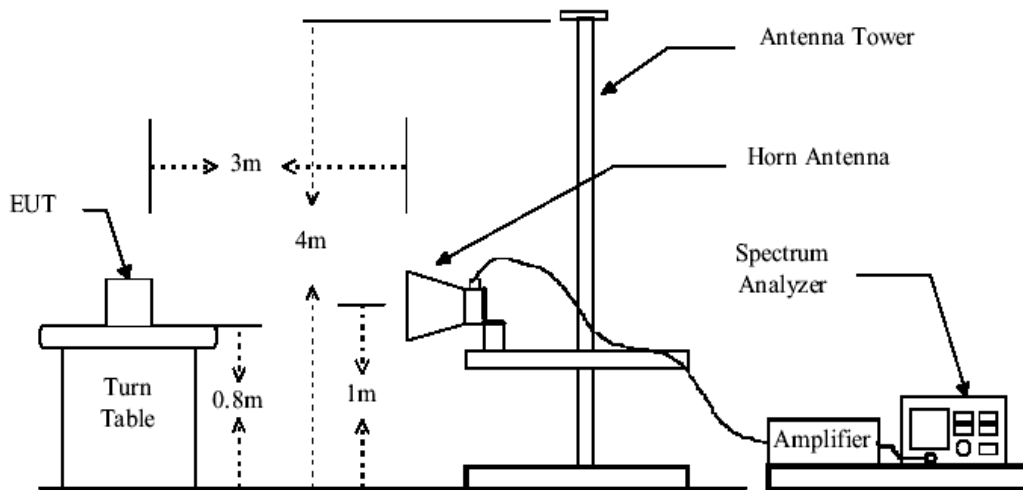


Figure 2 Above 1GHz radiated emissions test configuration

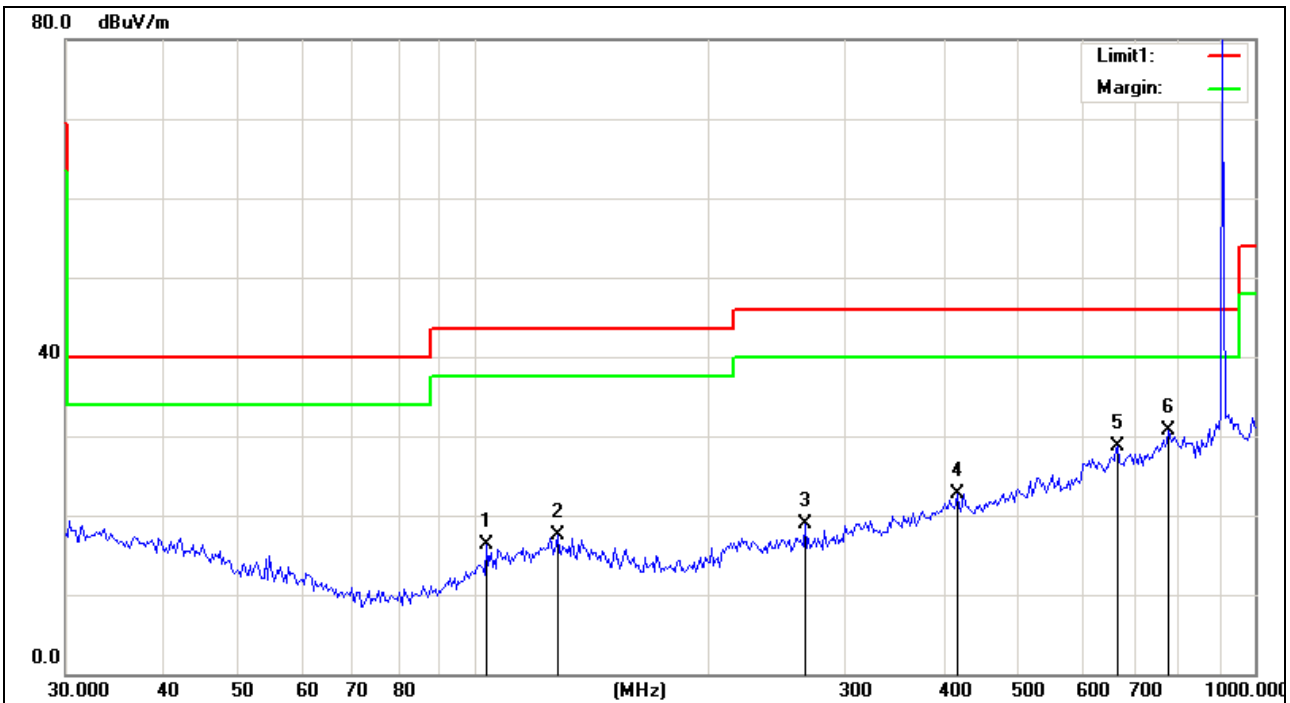
5.2.4 TEST RESULTS

The field strength was measured with an EMI measuring receiver.

Set 100 kHz RBW/VBW for Peak detector and Set 120kHz RBW/VBW for QP detector at a distance of 3m when we test below 1GHz.

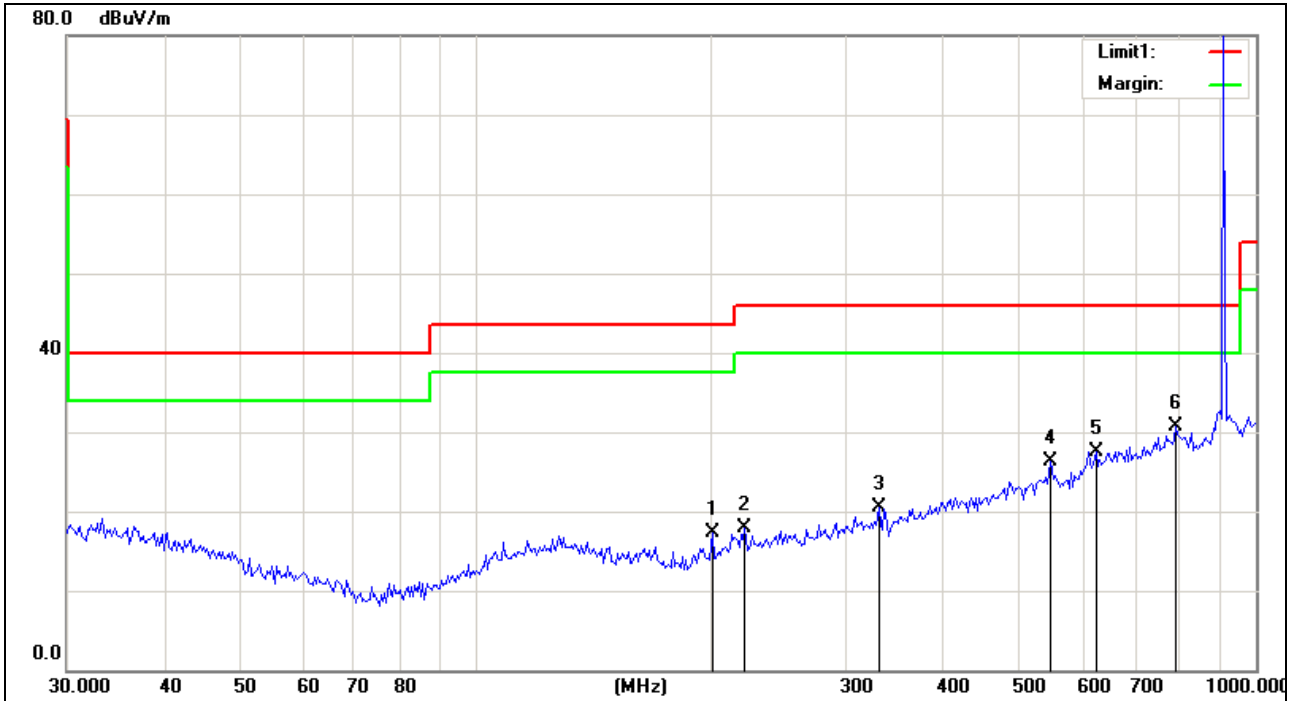
Set 1 MHz RBW / VBW for peak and with 1MHz RBW / 10Hz VBW for average at a distance of 3m when we test above 1GHz.

Project No.:	E201507301661	Polarziation:	Vertical
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	DC 3V
Test item:	Radiation Test	Date:	2016-6-21
Temp./Hum.(%RH):	21.0°C/55.0%RH	Time:	12:21:24
EUT:	Temperature sensor	Distance:	3m
Model:	B36-S10	Test Result:	Pass
Note:			
Test Engineer	Brian Xiao		



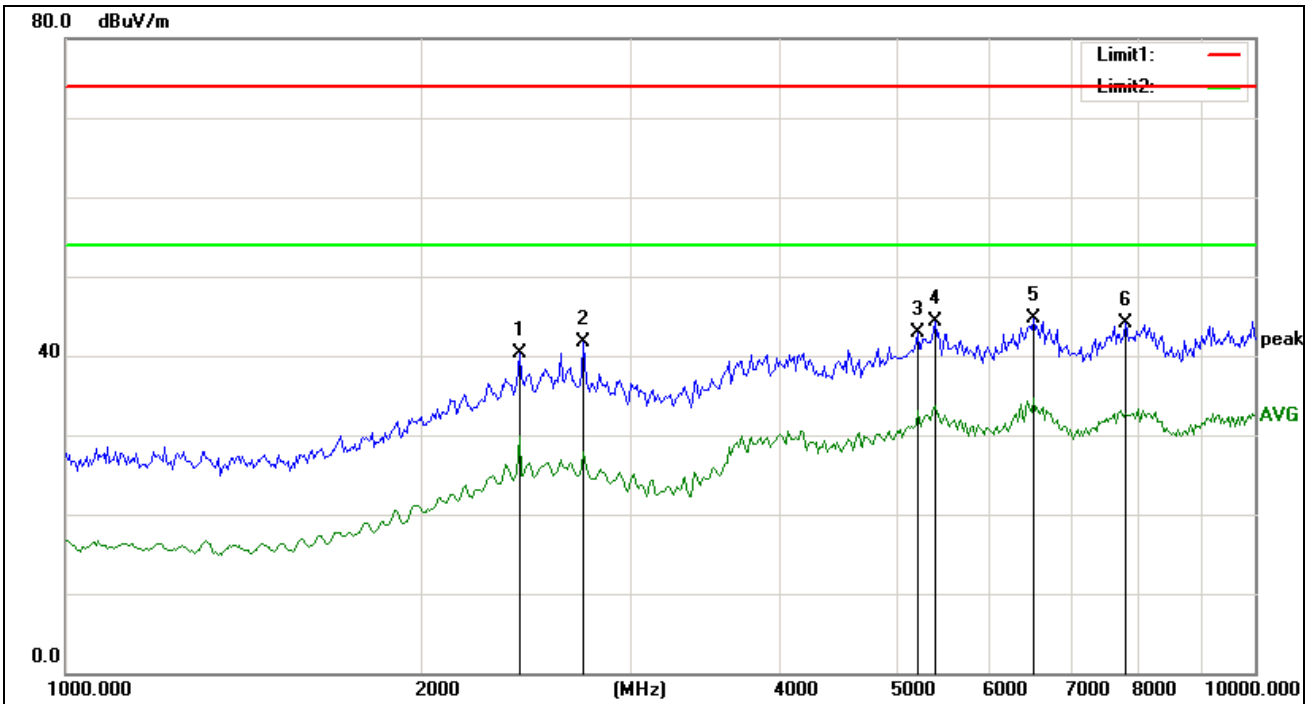
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	103.8662	5.06	11.18	16.24	43.50	-27.26	peak
2	127.8713	4.37	13.15	17.52	43.50	-25.98	peak
3	265.4847	5.44	13.52	18.96	46.00	-27.04	peak
4	416.1791	4.80	17.94	22.74	46.00	-23.26	peak
5	667.2418	6.49	22.15	28.64	46.00	-17.36	peak
6	776.5636	6.90	23.76	30.66	46.00	-15.34	peak

Project No.:	E201507301661	Polarization:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	DC 3V
Test item:	Radiation Test	Date:	2016-6-21
Temp./Hum.(%RH):	21.0°C/55.0%RH	Time:	12:21:56
EUT:	Temperature sensor	Distance:	3m
Model:	B36-S10	Test Result:	Pass
Note:			
Test Engineer	Brian Xiao		



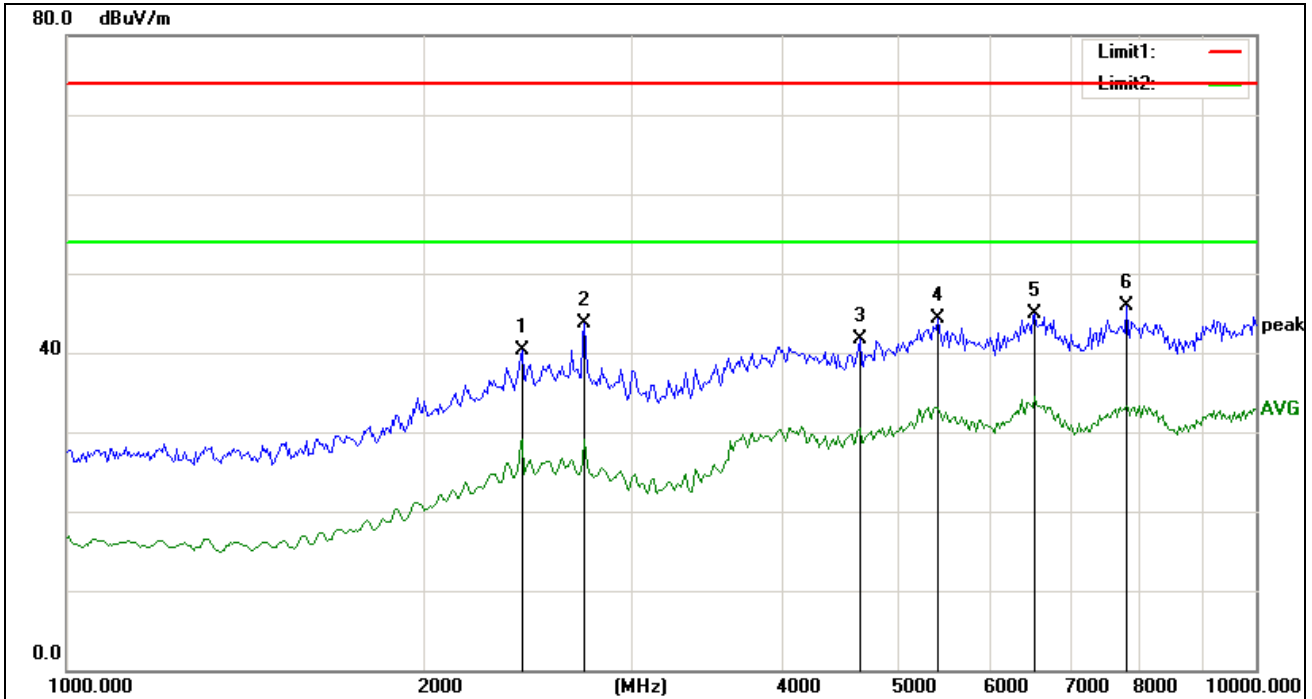
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	201.5832	5.75	11.58	17.33	43.50	-26.17	peak
2	221.7906	5.06	12.87	17.93	46.00	-28.07	peak
3	328.6842	5.18	15.33	20.51	46.00	-25.49	peak
4	545.0356	5.87	20.50	26.37	46.00	-19.63	peak
5	623.7307	6.38	21.12	27.50	46.00	-18.50	peak
6	789.7662	6.10	24.60	30.70	46.00	-15.30	peak

Project No.:	E201507301661	Polarization:	Vertical
Standard:	(RE)FCC PART 15 class B	Power Source:	DC 3V
Test item:	3m_PEAK		
Temp./Hum.(%RH):	Radiation Test	Date:	2016-6-21
EUT:	21.0°C/55.0%RH	Time:	11:24:03
Model:	Temperature sensor	Distance:	3m
	B36-S10	Test Result:	Pass
Note:			
Test Engineer	Brian Xiao		



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2406.635	32.78	7.49	40.27	74.00	-33.73	peak
2	2728.333	33.78	7.89	41.67	74.00	-32.33	peak
3	5204.106	31.13	11.80	42.93	74.00	-31.07	peak
4	5379.838	31.96	12.32	44.28	74.00	-29.72	peak
5	6517.823	31.33	13.29	44.62	74.00	-29.38	peak
6	7780.825	29.99	14.08	44.07	74.00	-29.93	peak

Project No.:	E201507301661	Polarziation:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m_PEAK	Power Source:	DC 3V
Test item:	Radiation Test	Date:	2016-6-21
Temp./Hum.(%RH):	21.0°C/55.0%RH	Time:	11:25:09
EUT:	Temperature sensor	Distance:	3m
Model:	B36-S10	Test Result:	Pass
Note:			
Test Engineer	Brian Xiao		



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2415.532	32.80	7.54	40.34	74.00	-33.66	peak
2	2728.333	35.74	7.89	43.63	74.00	-30.37	peak
3	4641.589	31.23	10.49	41.72	74.00	-32.28	peak
4	5399.727	31.87	12.37	44.24	74.00	-29.76	peak
5	6517.823	31.60	13.29	44.89	74.00	-29.11	peak
6	7780.825	31.90	14.08	45.98	74.00	-28.02	peak

5.3 OUT OF BAND EMISSIONS

5.3.1 LIMITS

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

5.3.2 TEST PROCEDURES

Procedure of Test

Radiated emission tests shall be made with the receive or transmit antenna located at a horizontal distance of 3 m plus half of the maximum width of the EUT being tested, measured from the centre of the EUT. The tests shall be performed with the equipment configured as closely as possible to its typical, practical operation. Unless stated otherwise, cables and wiring shall be as specified by the manufacturer and the equipment shall be in its housing (or cabinet) with all covers and access panels in place. Any deviation from normal EUT operating conditions shall be included in the test report.

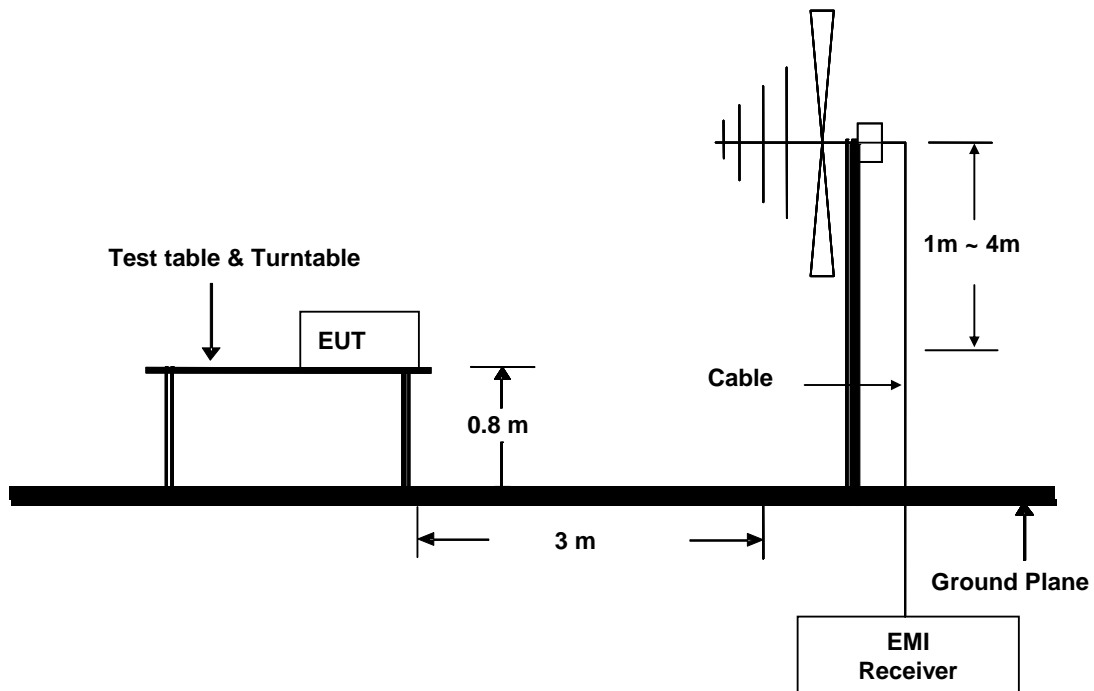
The EUT (on a non-conductive support structure, where applicable) shall be placed on a remotely operated turntable, to allow the EUT to be rotated. The height of the EUT above the ground plane shall be according to the following requirements.

- Table-top equipment is placed on a non-conductive set-up table with height $0,8\text{ m} \pm 0,01\text{ m}$, ANSI C63.10:2013 specifies the method to determine the impact of the non-conductive set-up table on test results.
- Floor-standing equipment is placed on a non-conductive support, as specified in the applicable product standard. If there are no EUT height placement requirements in the product standard, the EUT shall be placed on a non-conductive support at a height of 5 cm to 15 cm above the ground plane.

Interface cables, loads, and devices should be connected to at least one of each type of the interface ports of the EUT and, where practical, each cable shall be terminated in a device typical for its actual use. Where there are multiple interface ports of the same type, a typical number of these devices shall be connected to devices or loads. It is sufficient to connect only one of the loads, provided that it can be shown, for example by preliminary testing, that the connection of further ports would not significantly increase the level of disturbance (that is, more than 2 dB) or significantly degrade the immunity level.

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the test.

5.3.3 TEST SETUP

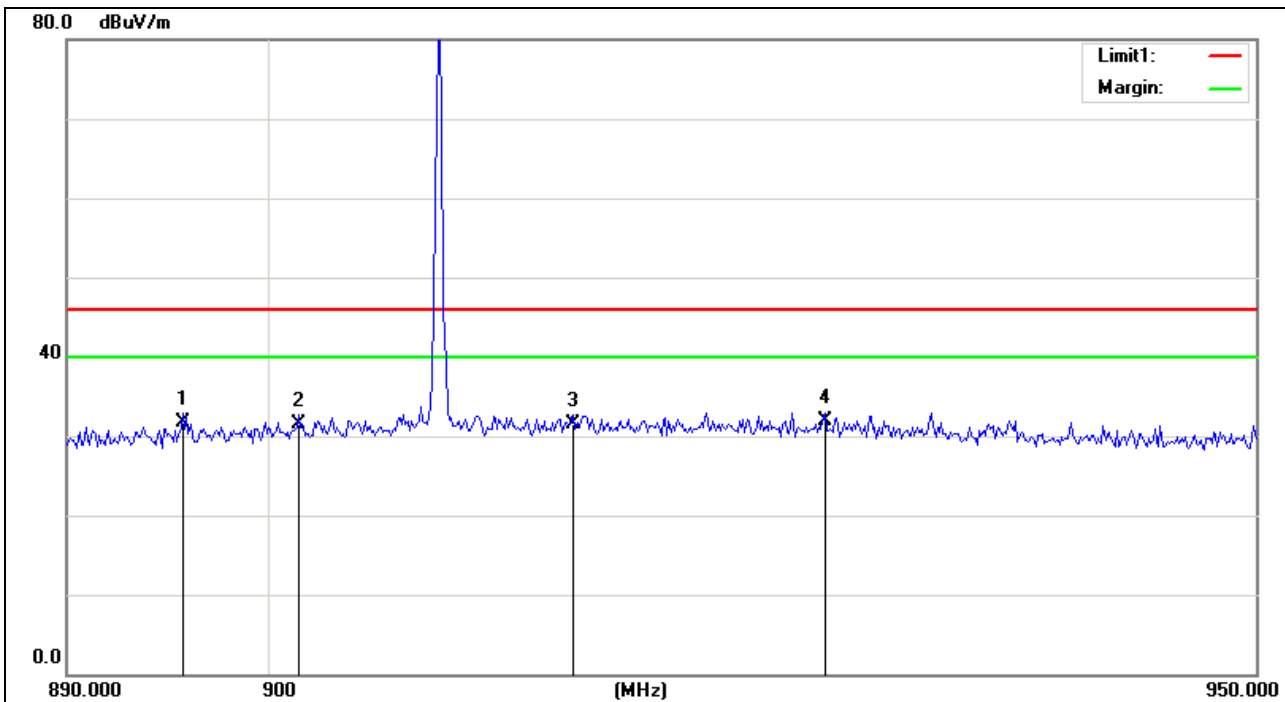


5.3.4 TEST RESULTS

The field strength was measured with an EMI measuring receiver and 100 kHz RBW / VBW for Peak and 120kHz RBW/VBW for QP at a distance of 3m.

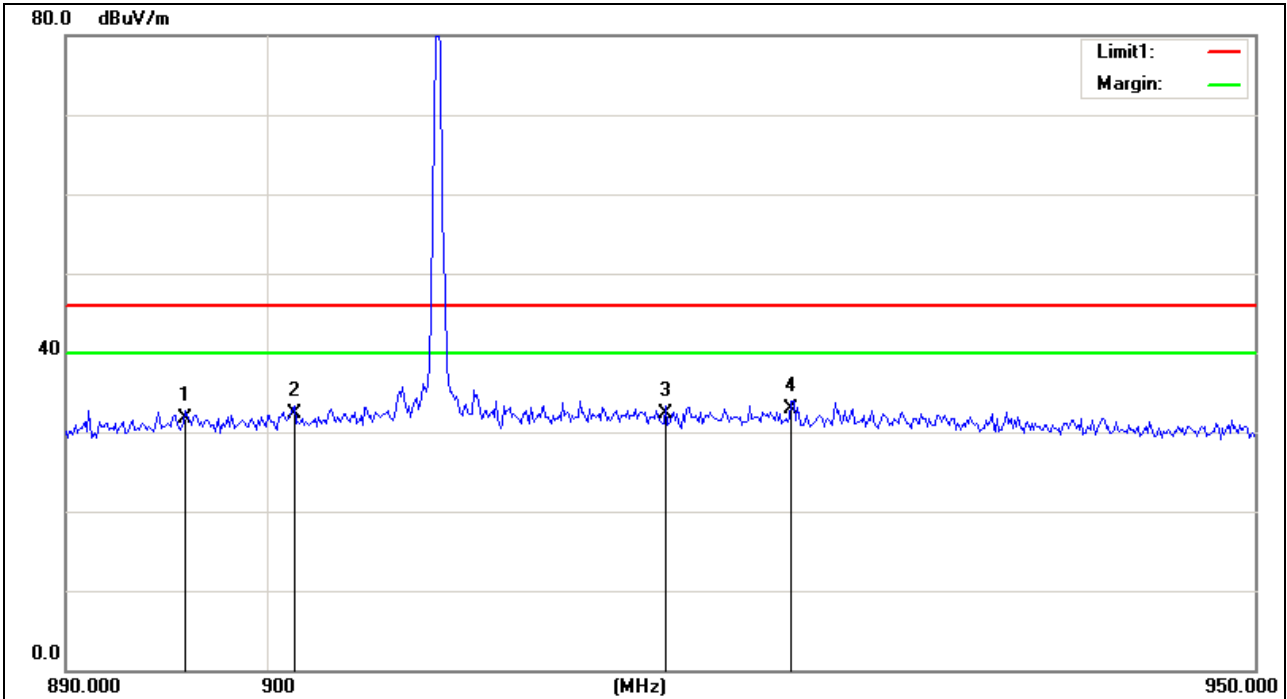
Measurement result:

Project No.:	E201507301661	Polarziation:	Vertical
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	DC 3V
Test item:	Radiation Test	Date:	2016-6-21
Temp./Hum.(%RH):	21.0°C/55.0%RH	Time:	12:23:22
EUT:	Temperature sensor	Distance:	3m
Model:	B36-S10	Test Result:	Pass
Note:			
Test Engineer	Brian Xiao		



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	895.7692	5.73	26.07	31.80	46.00	-14.20	QP
2	901.4423	5.05	26.55	31.60	46.00	-14.40	QP
3	915.1923	4.57	27.03	31.60	46.00	-14.40	QP
4	927.8846	5.06	26.84	31.90	46.00	-14.10	QP

Project No.:	E201507301661	Polarziation:	Horizontal
Standard:	(RE)FCC PART 15 class B 3m	Power Source:	DC 3V
Test item:	Radiation Test	Date:	2016-6-21
Temp./Hum.(%RH):	21.0°C/55.0%RH	Time:	12:24:04
EUT:	Temperature sensor	Distance:	3m
Model:	B36-S10	Test Result:	Pass
Note:			
Test Engineer	Brian Xiao		



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	895.9615	5.61	26.09	31.70	46.00	-14.30	QP
2	901.2500	5.77	26.53	32.30	46.00	-13.70	QP
3	919.8077	5.31	26.99	32.30	46.00	-13.70	QP
4	926.2500	6.03	26.87	32.90	46.00	-13.10	QP

5.4 CONDUCTED EMISSION MEASUREMENT

5.4.1 LIMITS

Frequency range	Limits (dB μ V)	
	Quasi-peak	Average
150kHz ~ 0.5MHz	66~56	56~46
0.5 MHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	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 of 150kHz to 0.5MHz.

5.4.2 TEST PROCEDURES

Procedure of Preliminary Test

For measurement of the disturbance voltage the equipment under test (EUT) is connected to the power supply mains and any other extended network via one or more artificial network(s). An EUT, whether intended to be grounded or not, and which is to be used on a table is configured as follows:

- Either the bottom or the rear of the EUT shall be at a controlled distance of 40 cm from a reference ground plane. This ground plane is normally the wall or floor of a shielded room. It may also be a grounded metal plane of at least 2 m by 2 m. This is physically accomplished as follows:

- 1) place the EUT on a table of non-conducting material which is at least 80 cm high. Place the EUT so that it is 40 cm from the wall of the shielded room, or

- 2) place the EUT on a table of non-conducting material which is 40 cm high so that the bottom of the EUT is 40 cm above the ground plane;

- All other conductive surfaces of the EUT shall be at least 80 cm from the reference ground plane;

- The EUT are placed on the floor that one side of the housings is 40 cm from the vertical reference ground plane and other metallic parts;

- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 cm to 40 cm long, hanging approximately in the middle between the ground plane and the table.

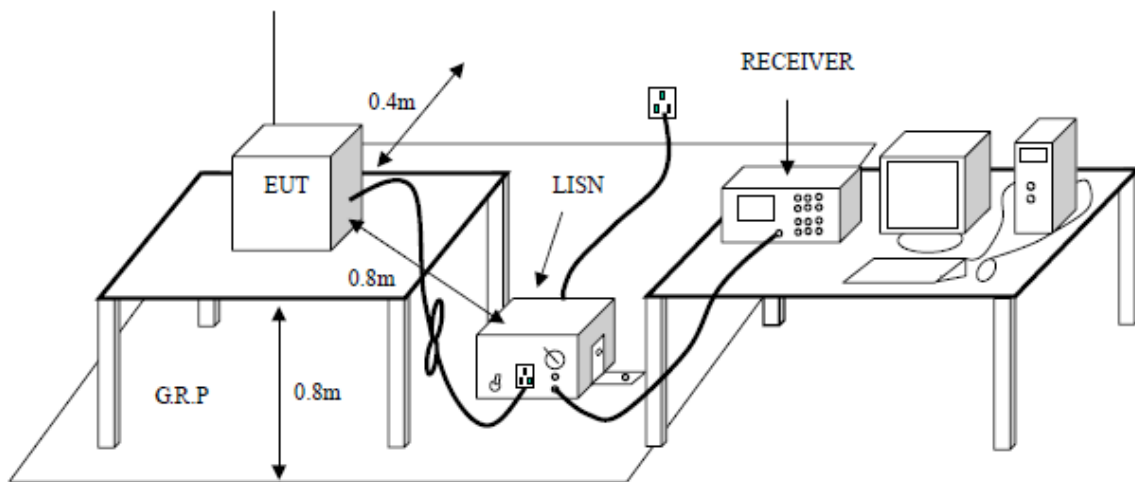
- I/O cables that are connected to a peripheral shall be bundled in the centre. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 m.

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

5.4.3 TEST SETUP

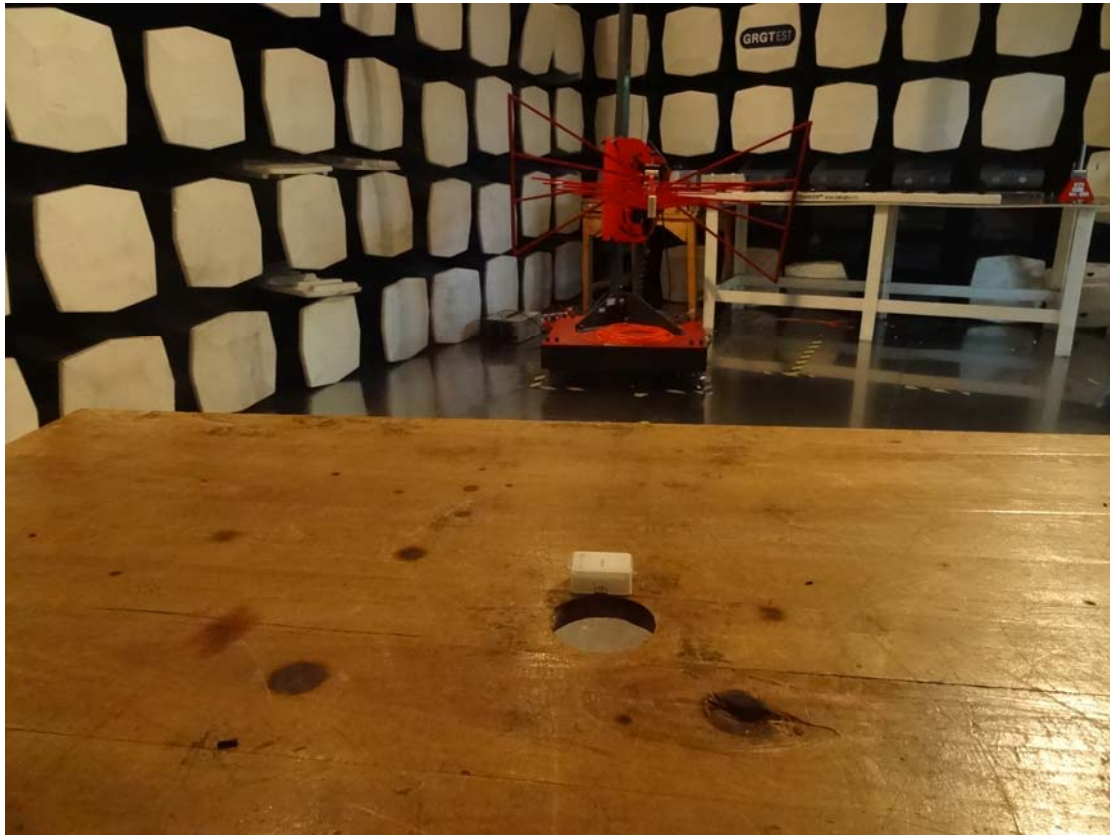


5.4.4 TEST RESULTS

N/A: The EUT is own DC 3.0V battery supply.

APPENDIX A: PHOTOGRAPH OF THE TEST ARRANGEMENT

Radiated Emission (Below 1GHZ)



Radiated Emission (Above 1GHz)

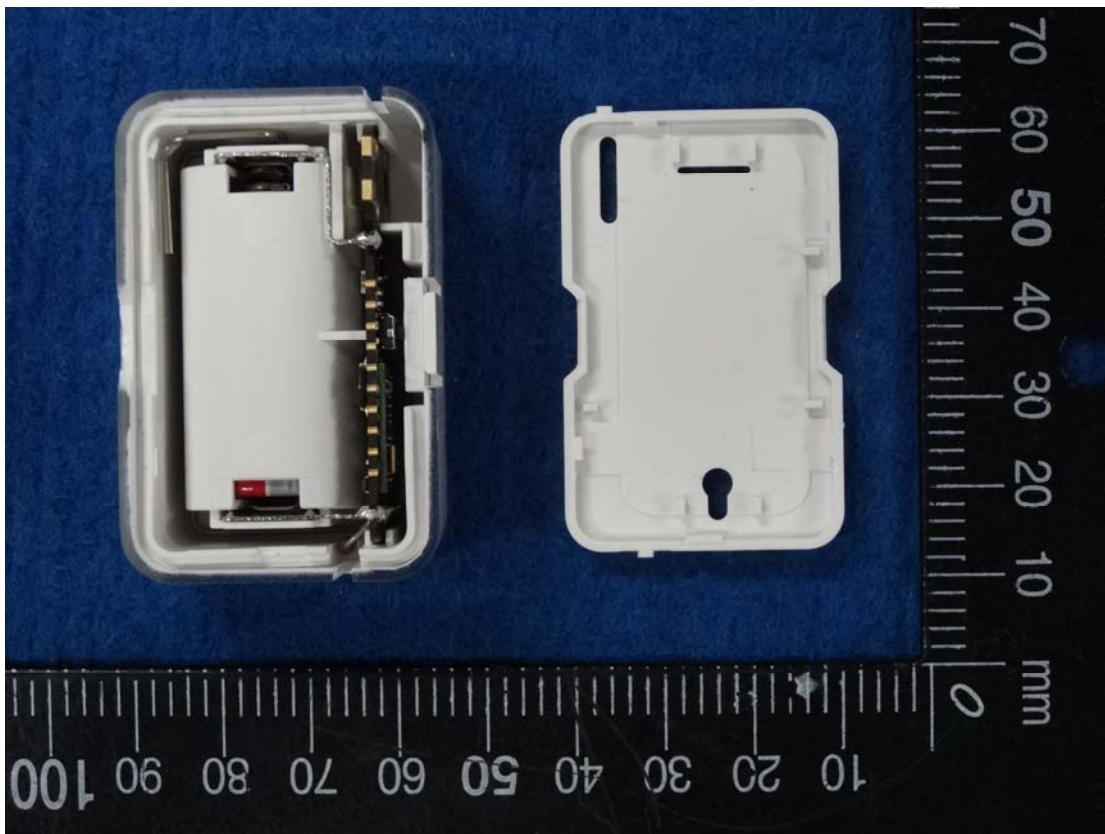


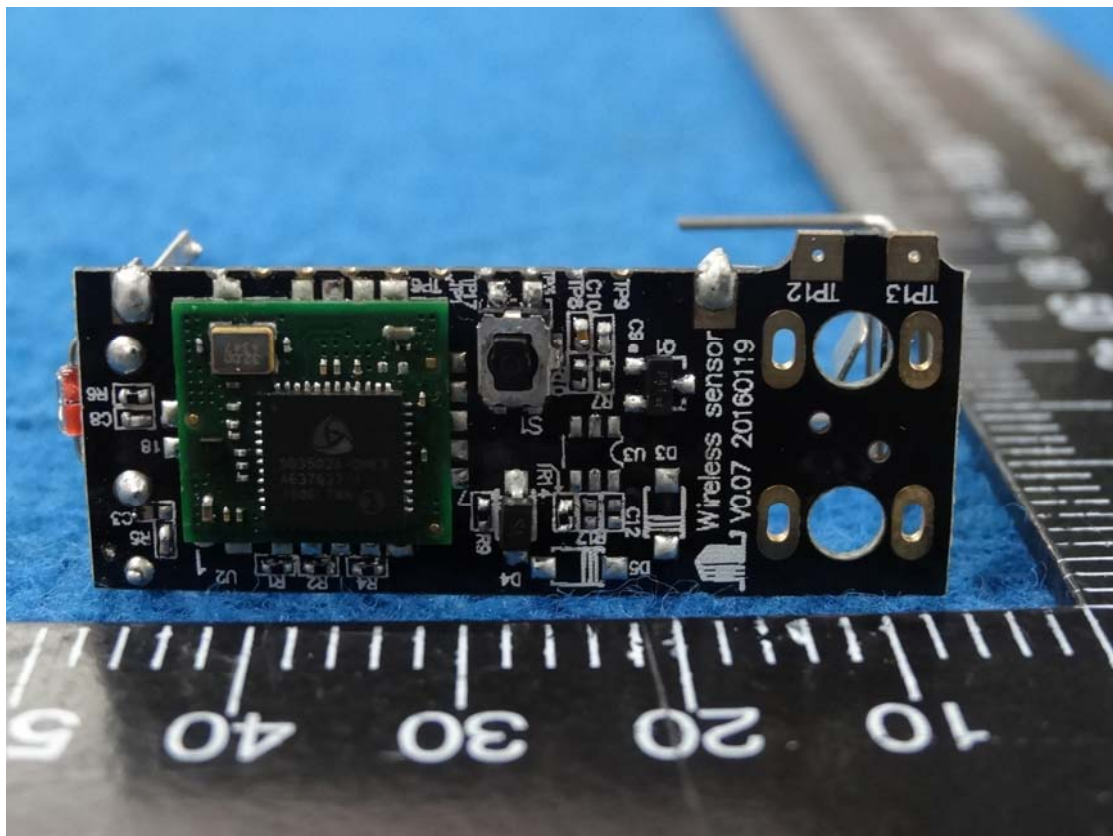
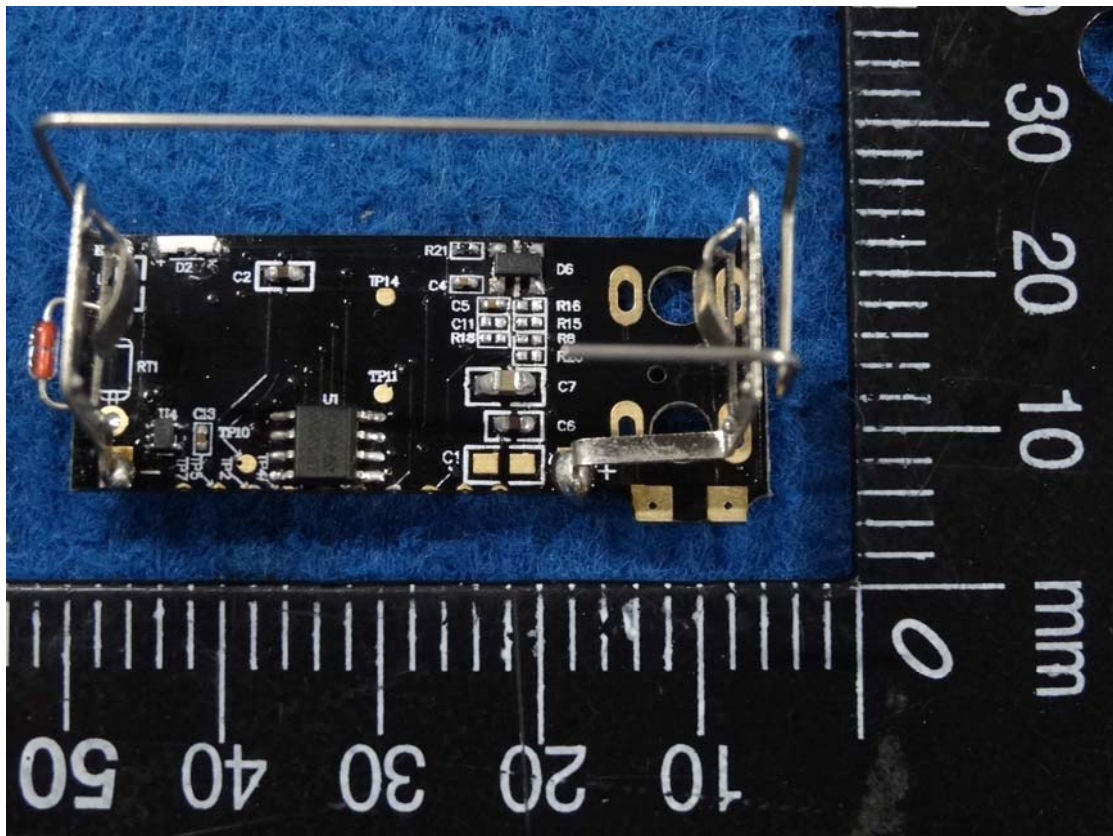
APPENDIX B: PHOTOGRAPH OF EUT













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