
FCC Test Report

Report No.: AGC03767191201FE03

FCC ID : Z52NAS-WR02Z1U
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Smart plug
BRAND NAME : NEO
MODEL NAME : NAS-WR02Z1U
APPLICANT : SHENZHEN NEO ELECTRONICS CO., LTD
DATE OF ISSUE : Jan. 07, 2020
**STANDARD(S)
TEST PROCEDURE(S)** : FCC Part 15 Rules
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 07, 2020	Valid	Initial Release



TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY 4

2. GENERAL INFORMATION 5

 2.1. PRODUCT DESCRIPTION 5

 2.2. TABLE OF CARRIER FREQUENCY 5

3. MEASUREMENT UNCERTAINTY 6

4. DESCRIPTION OF TEST MODES 7

5. SYSTEM TEST CONFIGURATION 8

 5.1. CONFIGURATION OF EUT SYSTEM 8

 5.2 EQUIPMENT USED IN TESTED SYSTEM 8

 5.3. SUMMARY OF TEST RESULTS 8

6. TEST FACILITY 9

7. RADIATED EMISSION 10

 7.1 TEST LIMIT 10

 7.2. MEASUREMENT PROCEDURE 11

 7.3. TEST SETUP 13

 7.4. TEST RESULT 14

8. FCC LINE CONDUCTED EMISSION TEST 20

 8.1. LIMITS OF LINE CONDUCTED EMISSION TEST 20

 8.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST 20

 8.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST 21

 8.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST 21

 8.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST 22

9. 20DB BANDWIDTH 24

 9.1. MEASUREMENT PROCEDURE 24

 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) 24

 9.3. MEASUREMENT RESULTS 25

APPENDIX A: PHOTOGRAPHS OF TEST SETUP 26

APPENDIX B: PHOTOGRAPHS OF EUT 28

1. VERIFICATION OF CONFORMITY

Applicant	SHENZHEN NEO ELECTRONICS CO., LTD
Address	East 6/F, Building 2LaoBing Industry, No.44 TieZai Road, Baoan District, Shenzhen.
Manufacturer	SHENZHEN NEO ELECTRONICS CO., LTD
Address	East 6/F, Building 2LaoBing Industry, No.44 TieZai Road, Baoan District, Shenzhen.
Factory	SHENZHEN NEO ELECTRONICS CO., LTD
Address	East 6/F, Building 2LaoBing Industry, No.44 TieZai Road, Baoan District, Shenzhen.
Product Designation	Smart plug
Brand Name	NEO
Test Model	NAS-WR02Z1U
Date of test	Dec. 11, 2019~Jan. 07, 2020
Deviation	No any deviation from the test method.
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

Prepared By



Donjon Huang
(Project Engineer)

Jan. 07, 2020

Reviewed By



Max Zhang
(Reviewer)

Jan. 07, 2020

Approved By



Forrest Lei
(Authorized Officer)

Jan. 07, 2020



2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	908.4MHz, 916MHz
Maximum field strength	908.4MHz: 82.42dBuV/m(Average)@3m
	916MHz: 65.73dBuV/m(Average)@3m
Modulation	908.4MHz FSK 916MHz GFSK
Number of channels	2
Antenna Gain	2dBi
Antenna Designation	Spring antenna
Hardware Version	NAS-WR02Z1U-P-T-V2 20191012
Software Version	01 46
Power Supply	AC 110– 230V ±10%, 50/60Hz

2.2. TABLE OF CARRIER FREQUENCY

Frequency Band	Frequency
902-928MHz	916MHz
	908.4MHz



3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %



4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Transmitting mode(916MHz)
2	Transmitting mode(908.4MHz)

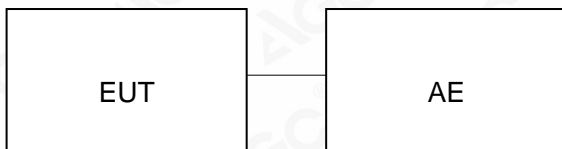
Note:

1. only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.



5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM



5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Smart plug	NAS-WR02Z1U	FCC ID: Z52NAS-WR02Z1U	EUT
2	Light	N/A	N/A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249&15.209	Radiated Emission	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	Compliant



6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 10, 2019	Jun. 09, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020
Test software	R&S	ES-K1 (Ver. V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
Attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 13, 2018	Jun. 12, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 17, 2018	May. 16, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 14, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2020



7. RADIATED EMISSION

7.1 TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		μ V/m	dB(μ V)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	

Remark: (1) Emission level dB μ V = 20 log Emission level μ V/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.



7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use minimum resolution bandwidth of 1 MHz. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

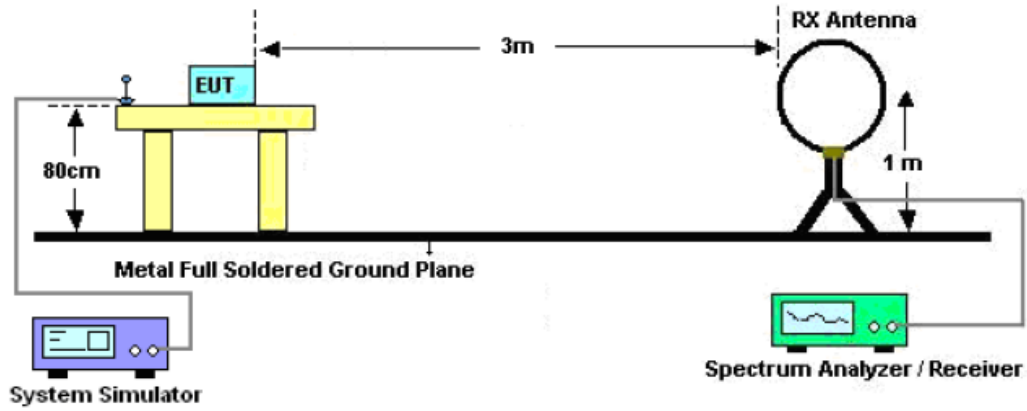
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/1kHz for Average

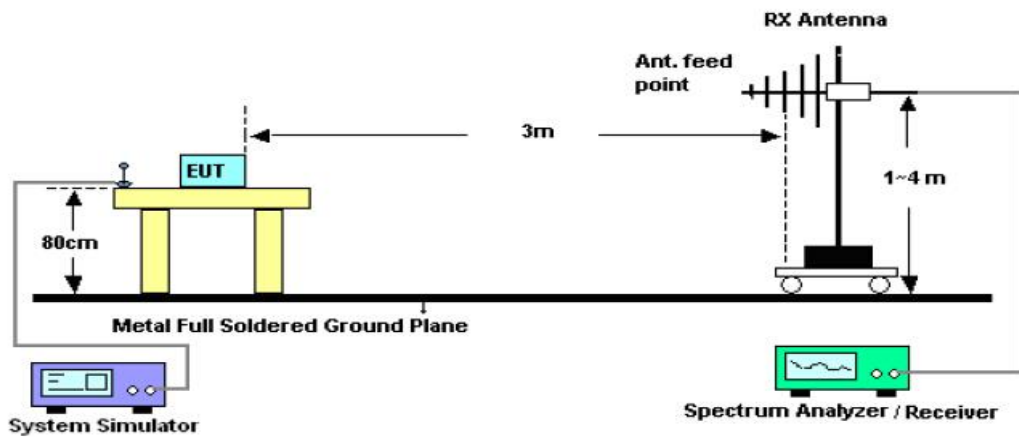
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

7.3. TEST SETUP

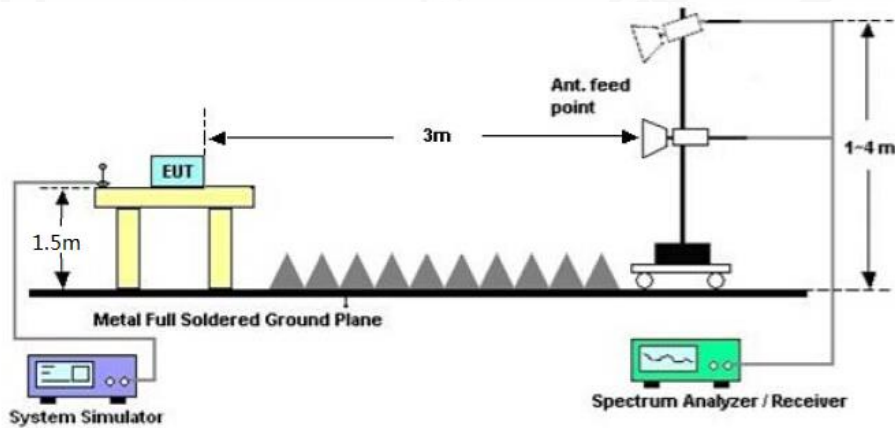
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



7.4. TEST RESULT

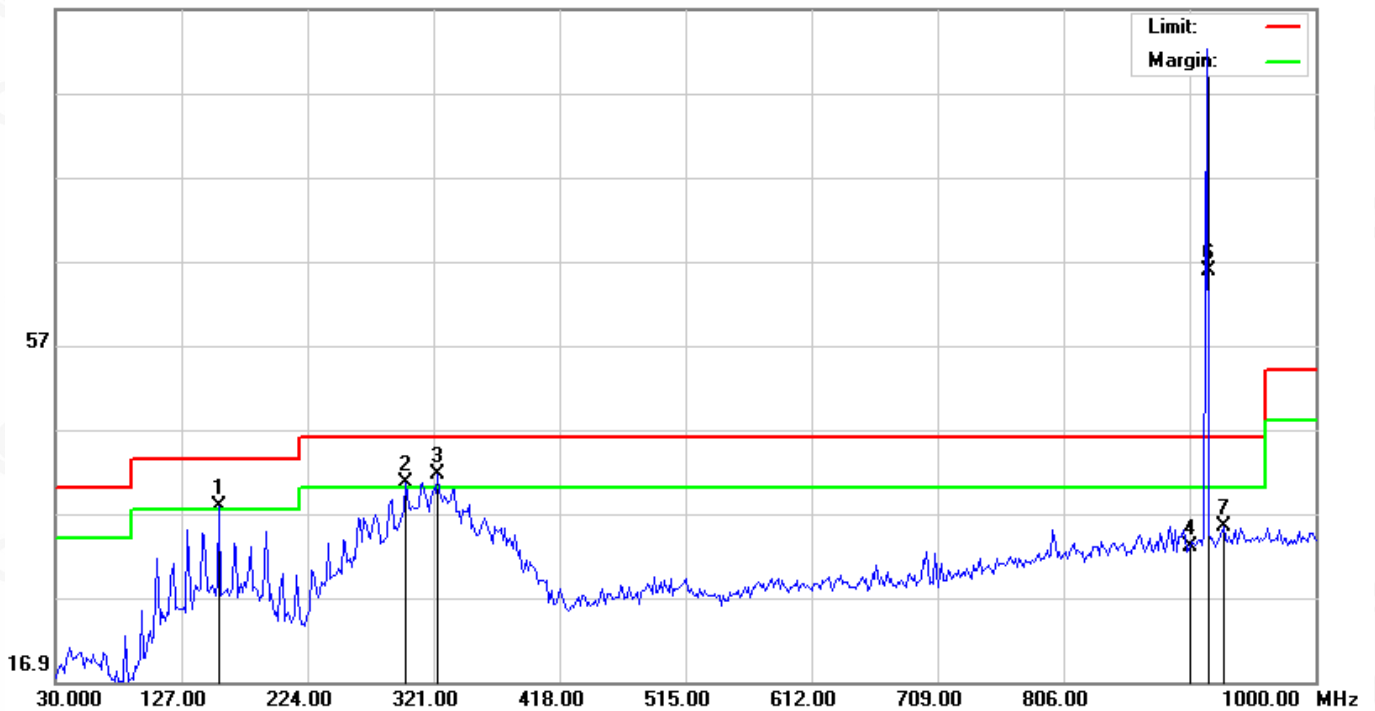
RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION 30MHZ- 1GHZ

EUT :	Smart plug	Model Name. :	NAS-WR02Z1U
Temperature :	25 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Voltage :	Normal Voltage
Test Mode :	Mode 1	Polarization :	Horizontal

96.9 dBuV/m



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna	Table	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		Height	Degree	
									cm	degree	
1	!	156.0998	18.63	19.20	37.83	43.50	-5.67	peak			
2	!	299.9831	21.07	19.47	40.54	46.00	-5.46	peak			
3	!	324.2331	21.31	20.32	41.63	46.00	-4.37	peak			
4		902.0000	1.27	31.72	32.99	46.00	-13.01	peak			
5	*	916.0000	60.29	31.84	92.13	114.00	-21.87	peak			
6	X	916.0000	33.89	31.84	65.73	94.00	-28.27	AVG			
7		928.0000	3.40	31.94	35.34	46.00	-10.66	peak			



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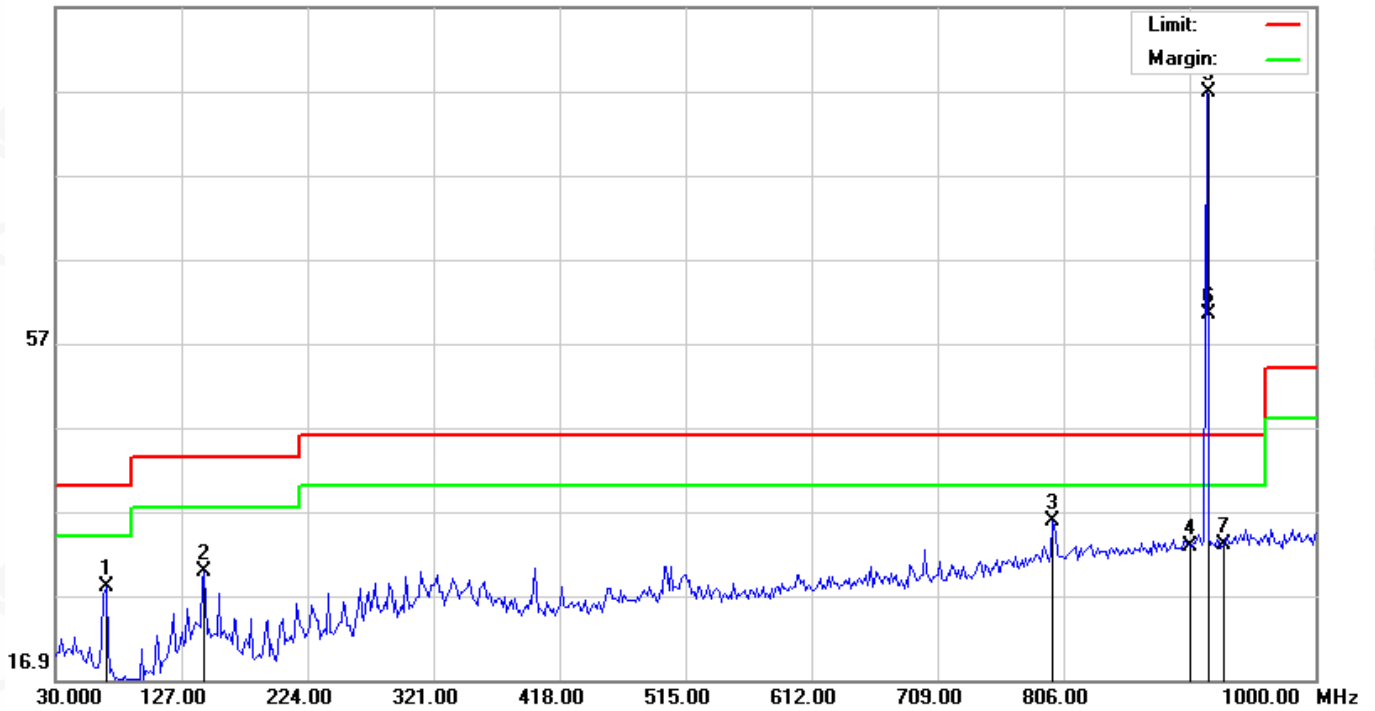
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

EUT :	Smart plug	Model Name. :	NAS-WR02Z1U
Temperature :	25 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Voltage :	Normal Voltage
Test Mode :	Mode 1	Polarization :	Vertical

96.9 dBuV/m



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1		68.7997	10.70	17.32	28.02	40.00	-11.98	peak			
2		144.7831	10.53	19.22	29.75	43.50	-13.75	peak			
3		797.9166	5.48	30.36	35.84	46.00	-10.16	peak			
4		902.0000	1.14	31.72	32.86	46.00	-13.14	peak			
5	*	916.0000	54.90	31.84	86.74	114.00	-27.26	peak			
6	X	916.0000	28.50	31.84	60.34	94.00	-33.66	AVG			
7		928.0000	1.15	31.94	33.09	46.00	-12.91	peak			



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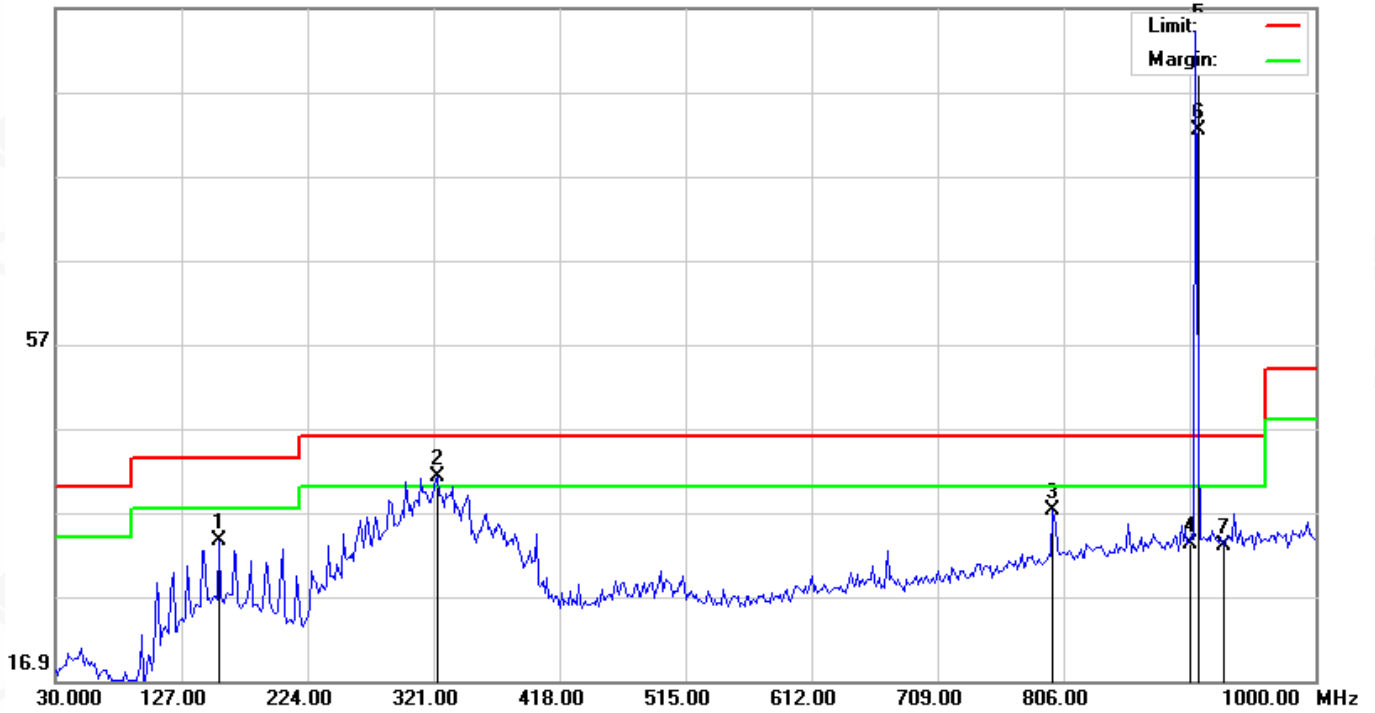
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

EUT :	Smart plug	Model Name. :	NAS-WR02Z1U
Temperature :	25 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Voltage :	Normal Voltage
Test Mode :	Mode 2	Polarization :	Horizontal

96.9 dBuV/m



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1		156.0997	14.32	19.20	33.52	43.50	-9.98	peak			
2	!	324.2330	20.97	20.32	41.29	46.00	-4.71	peak			
3		797.9166	6.77	30.36	37.13	46.00	-8.87	peak			
4		902.0000	1.56	31.72	33.28	46.00	-12.72	peak			
5	*	908.4000	62.35	31.77	94.12	114.00	-19.88	peak			
6	X	908.4000	50.65	31.77	82.42	94.00	-11.58	AVG			
7		928.0000	1.04	31.94	32.98	46.00	-13.02	peak			



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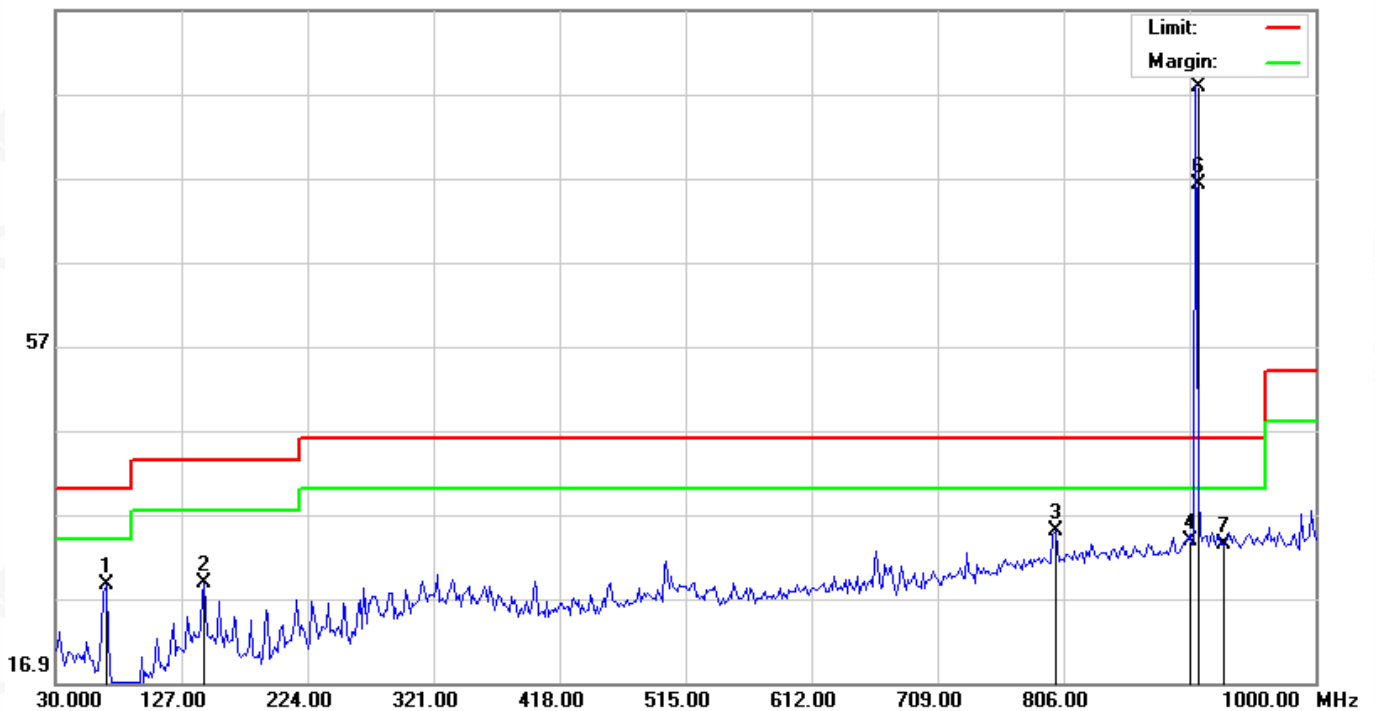
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E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

EUT :	Smart plug	Model Name. :	NAS-WR02Z1U
Temperature :	25 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Voltage :	Normal Voltage
Test Mode :	Mode 2	Polarization :	Vertical

96.9 dBuV/m



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1		68.7997	11.21	17.32	28.53	40.00	-11.47	peak			
2		144.7831	9.55	19.22	28.77	43.50	-14.73	peak			
3		799.5333	4.60	30.40	35.00	46.00	-11.00	peak			
4		902.0000	2.04	31.72	33.76	46.00	-12.24	peak			
5	*	908.4000	56.13	31.77	87.90	114.00	-26.10	peak			
6	X	908.4000	44.43	31.77	76.20	94.00	-17.80	AVG			
7		928.0000	1.43	31.94	33.37	46.00	-12.63	peak			

RESULT: PASS

Note: Factor=Antenna Factor + Cable loss, Margin=Result-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

The emission above the limit is the fundamental wave.



RADIATED EMISSION ABOVE 1GHZ

EUT :	Smart plug	Model Name. :	NAS-WR02Z1U
Temperature :	25 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Voltage :	Normal Voltage
Test Modulation :	Mode 1	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
1832.0247	50.85	-1.25	49.60	74.00	-24.40	peak
1832.0247	42.79	-1.25	41.54	54.00	-12.46	AVG
2748.2251	48.79	0.13	48.92	74.00	-25.08	peak
2748.2251	39.31	0.13	39.44	54.00	-14.56	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	Smart plug	Model Name. :	NAS-WR02Z1U
Temperature :	25 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Voltage :	Normal Voltage
Test Modulation :	Mode 1	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
1832.1425	51.62	-1.25	50.37	74.00	-23.63	peak
1832.1425	41.26	-1.25	40.01	54.00	-13.99	AVG
2748.3241	49.21	0.13	49.34	74.00	-24.66	peak
2748.3241	38.75	0.13	38.88	54.00	-15.12	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	Smart plug	Model Name. :	NAS-WR02Z1U
Temperature :	25 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Voltage :	Normal Voltage
Test Modulation :	Mode 2	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
1816.9242	51.24	-1.25	49.99	74.00	-24.01	peak
1816.9242	42.18	-1.25	40.93	54.00	-13.07	AVG
2725.4381	49.15	0.13	49.28	74.00	-24.72	peak
2725.4381	40.52	0.13	40.65	54.00	-13.35	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	Smart plug	Model Name. :	NAS-WR02Z1U
Temperature :	25 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Voltage :	Normal Voltage
Test Modulation :	Mode 2	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
1816.9815	51.82	-1.25	50.57	74.00	-23.43	peak
1816.9815	42.92	-1.25	41.67	54.00	-12.33	AVG
2725.4238	50.24	0.13	50.37	74.00	-23.63	peak
2725.4238	39.74	0.13	39.87	54.00	-14.13	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Note: Other emissions from 1G to 9.2GHz are considered as ambient noise. No recording in the test report.
Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.
The “Factor” value can be calculated automatically by software of measurement system.

8. FCC LINE CONDUCTED EMISSION TEST

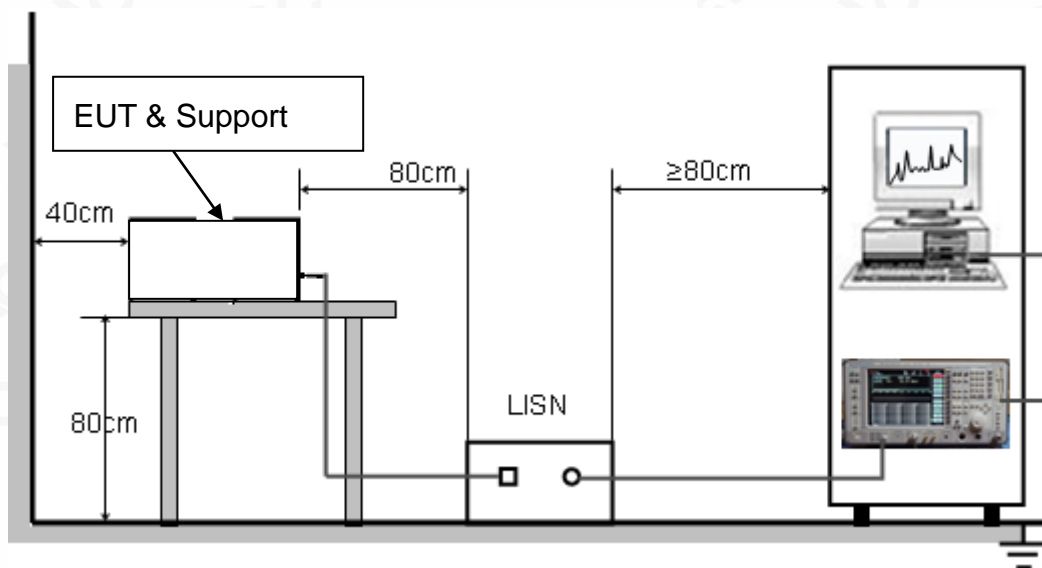
8.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

8.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



8.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC charging voltage by adapter which received AC120V/60Hz power by a LISN..
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

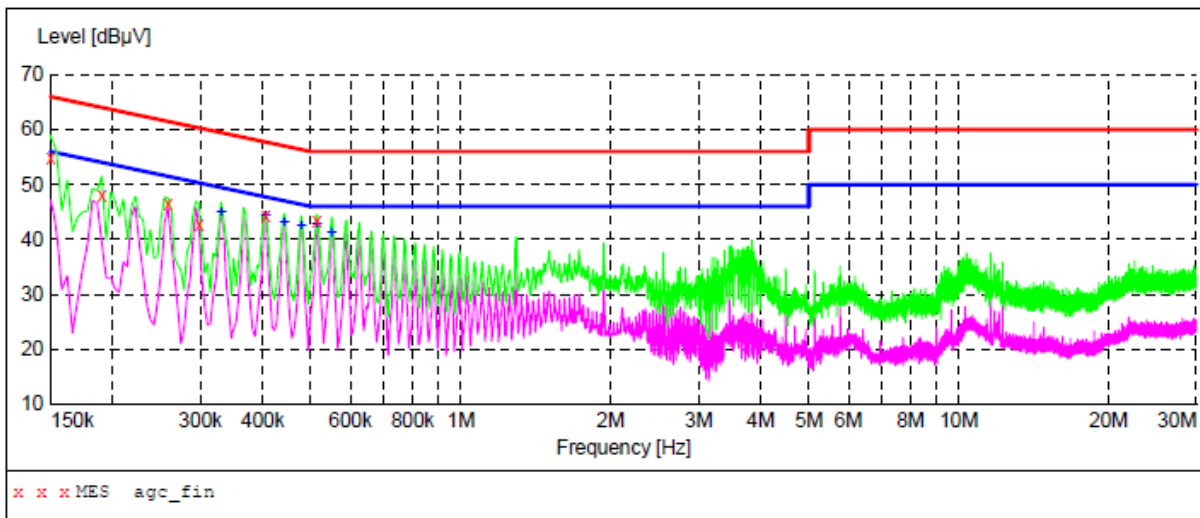
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

8.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, 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. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

8.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc_fin"

2019/12/30 11:30

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	54.90	11.3	66	11.1	QP	L1	FLO
0.190000	48.10	11.3	64	15.9	QP	L1	FLO
0.258000	46.30	11.3	62	15.2	QP	L1	FLO
0.298000	42.80	11.3	60	17.5	QP	L1	FLO
0.406000	44.40	11.3	58	13.3	QP	L1	FLO
0.514000	43.20	11.3	56	12.8	QP	L1	FLO

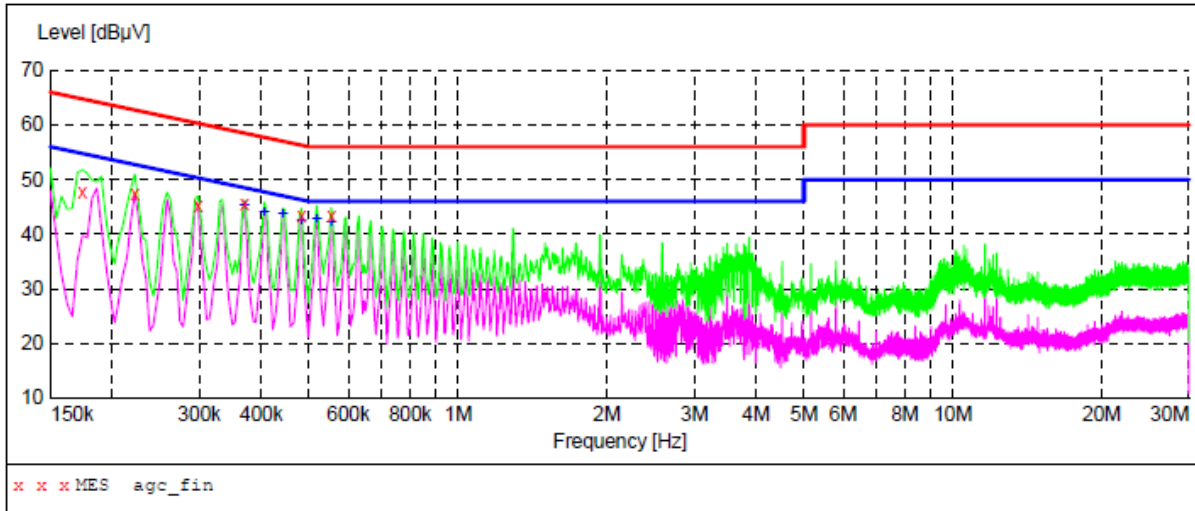
MEASUREMENT RESULT: "agc_fin2"

2019/12/30 11:30

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.330000	45.00	11.3	50	4.5	AV	L1	FLO
0.406000	44.40	11.3	48	3.3	AV	L1	FLO
0.442000	43.10	11.3	47	3.9	AV	L1	FLO
0.478000	42.50	11.3	46	3.9	AV	L1	FLO
0.514000	42.70	11.3	46	3.3	AV	L1	FLO
0.550000	41.30	11.3	46	4.7	AV	L1	FLO



Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc_fin"

2019/12/30 11:37

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.174000	47.60	11.3	65	17.2	QP	N	FLO
0.222000	47.50	11.3	63	15.2	QP	N	FLO
0.298000	45.30	11.3	60	15.0	QP	N	FLO
0.370000	45.40	11.3	59	13.1	QP	N	FLO
0.482000	43.40	11.3	56	12.9	QP	N	FLO
0.554000	43.20	11.3	56	12.8	QP	N	FLO

MEASUREMENT RESULT: "agc_fin2"

2019/12/30 11:37

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.370000	45.30	11.3	49	3.2	AV	N	FLO
0.406000	43.90	11.3	48	3.8	AV	N	FLO
0.442000	43.60	11.3	47	3.4	AV	N	FLO
0.482000	42.40	11.3	46	3.9	AV	N	FLO
0.518000	42.60	11.3	46	3.4	AV	N	FLO
0.554000	42.10	11.3	46	3.9	AV	N	FLO

RESULT: PASS

Note: All the modes had been tested, but only the worst mode1 recorded in the report.



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

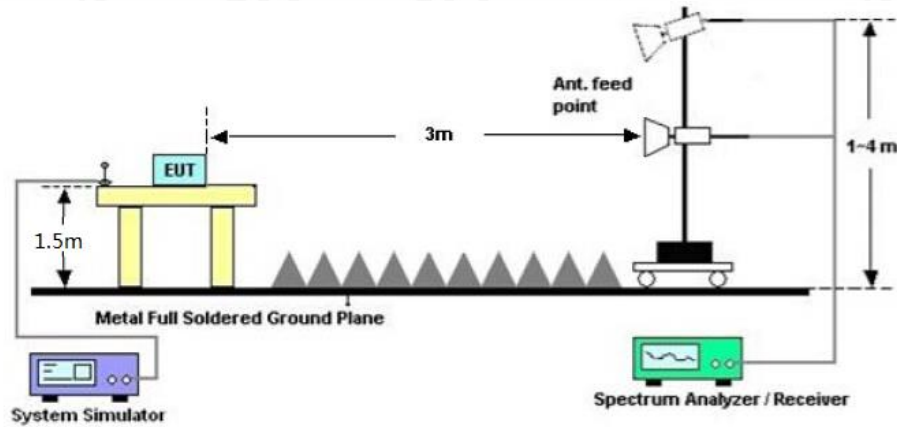
Service Hotline: 400 089 2118

9. 20DB BANDWIDTH

9.1. MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
2. Set SPA Centre Frequency = Operation Frequency, RBW= 3 KHz, VBW \geq 3 \times RBW.
3. Set SPA Trace 1 Max hold, then View.

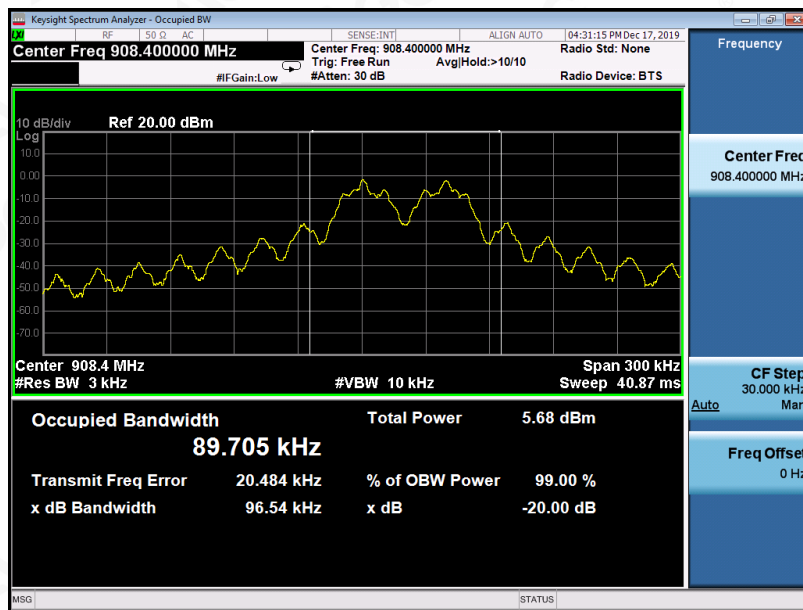
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



9.3. MEASUREMENT RESULTS

Channel	20DB BANDWIDTH (KHz)	Criteria
908.4MHz	96.54	PASS
916MHz	112.3	PASS

TEST PLOT OF BANDWIDTH (908.4MHz)



TEST PLOT OF BANDWIDTH (916MHz)



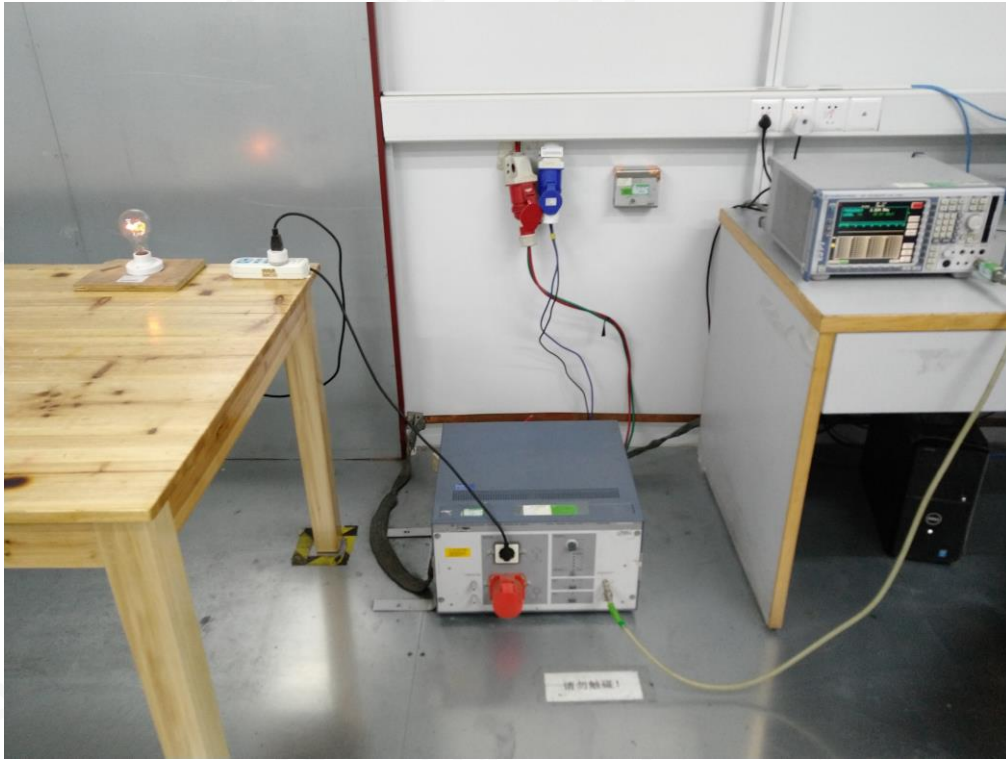
APPENDIX A: PHOTOGRAPHS OF TEST SETUP
FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



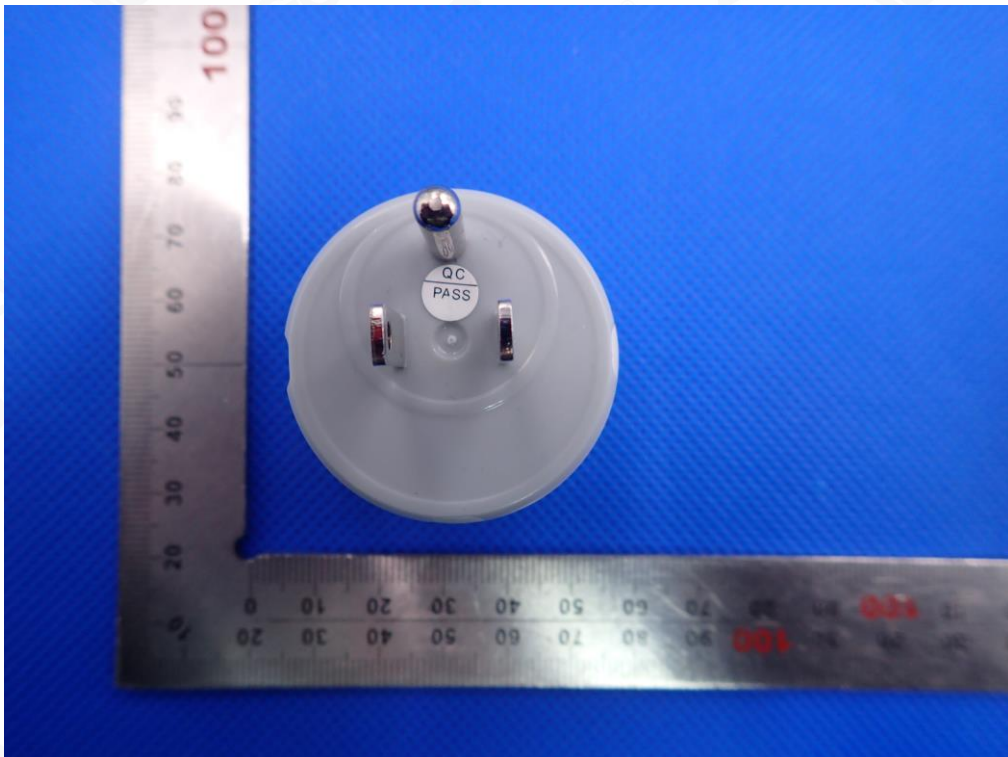
CONDUCTED EMISSION TEST



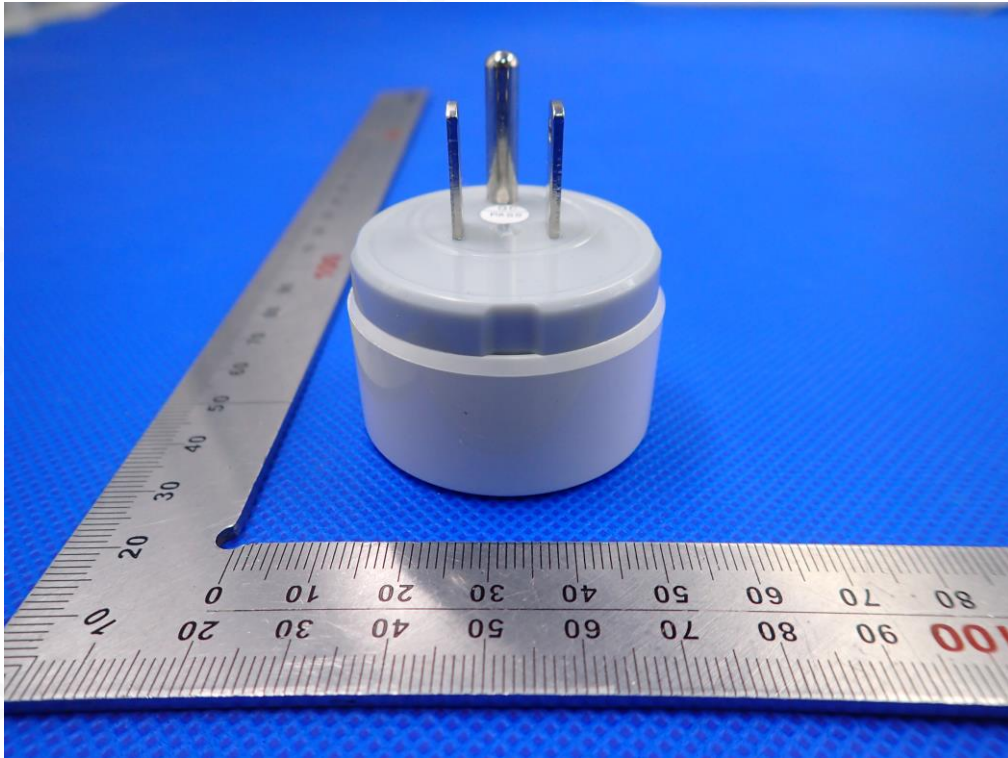
APPENDIX B: PHOTOGRAPHS OF EUT
TOP VIEW OF EUT



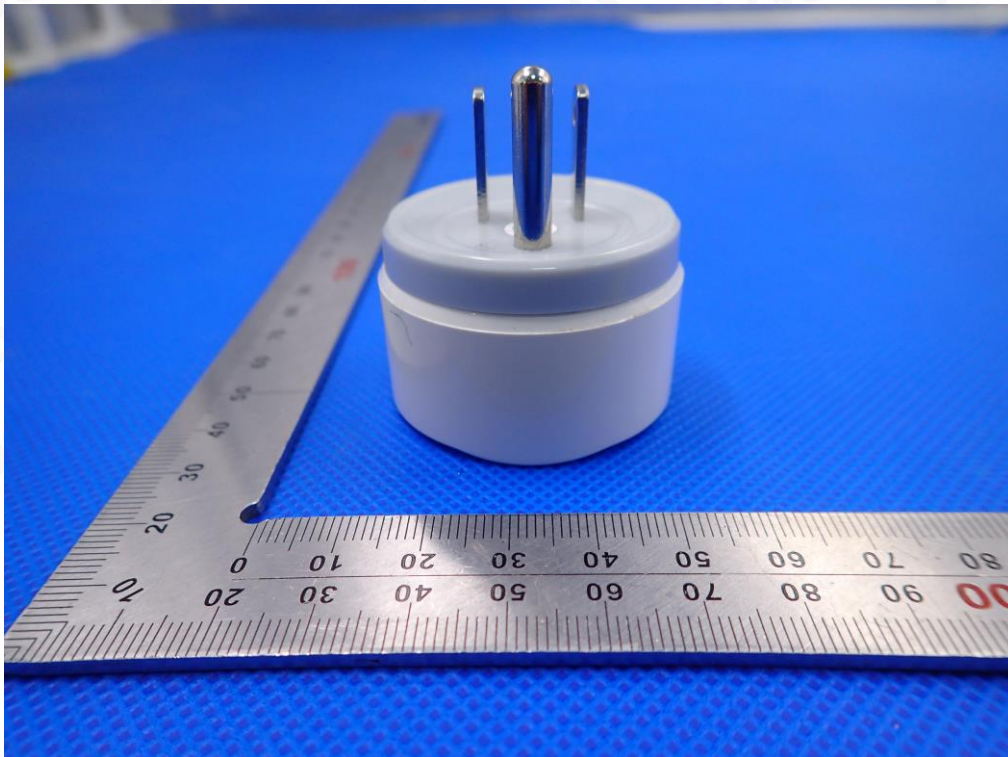
BOTTOM VIEW OF EUT



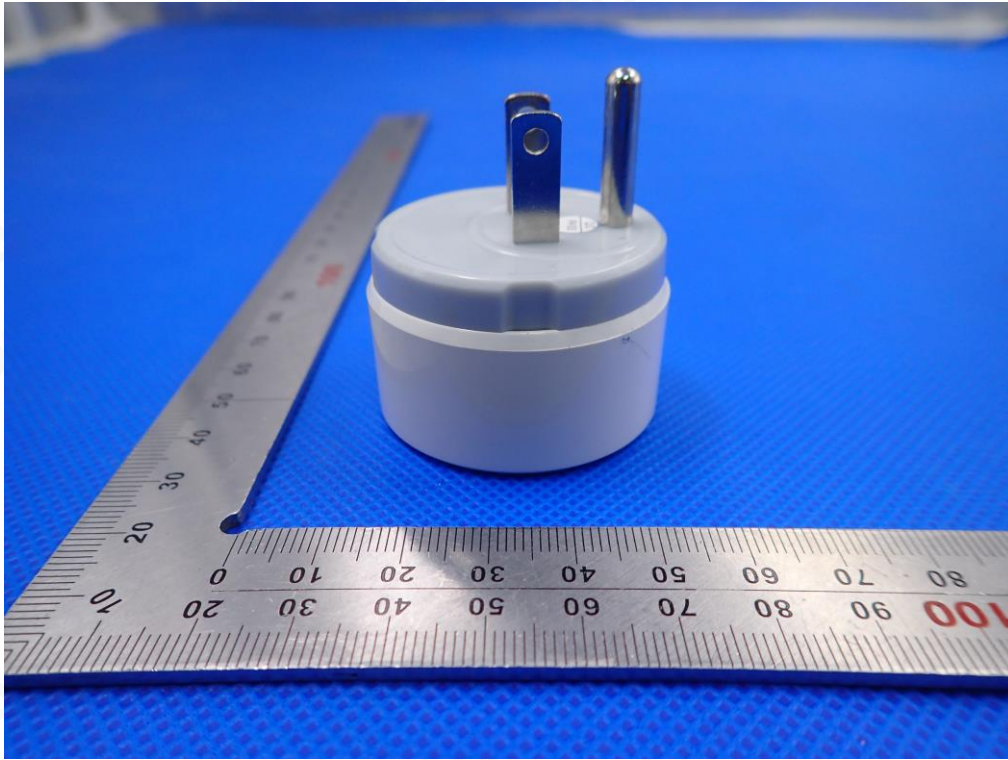
FRONT VIEW OF EUT



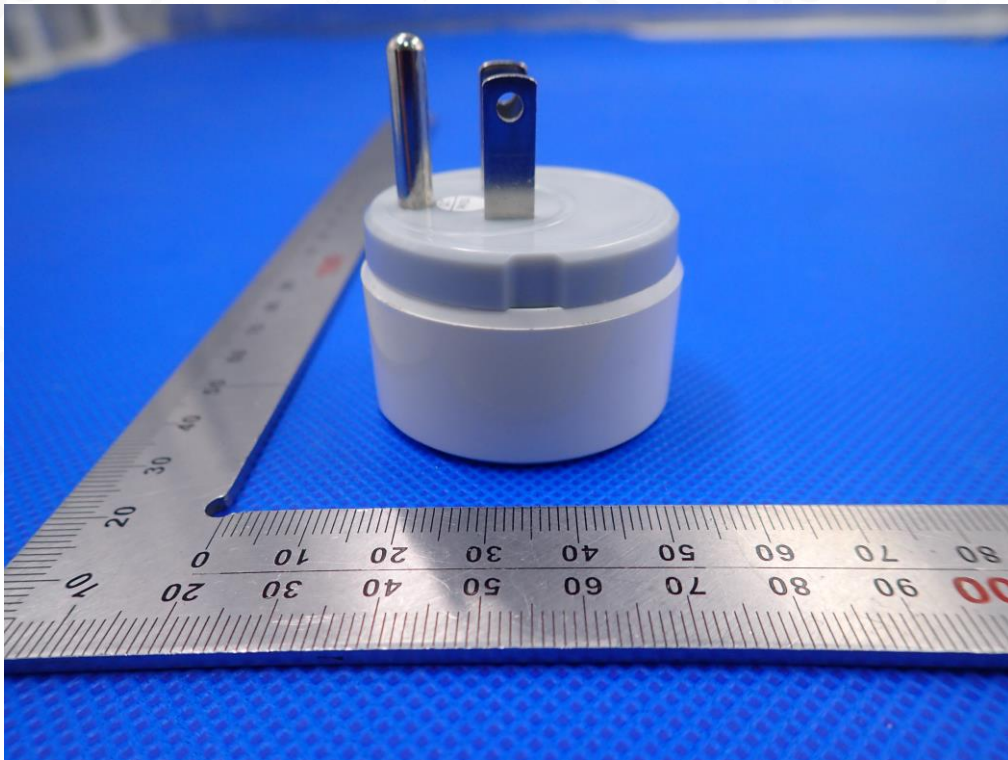
BACK VIEW OF EUT



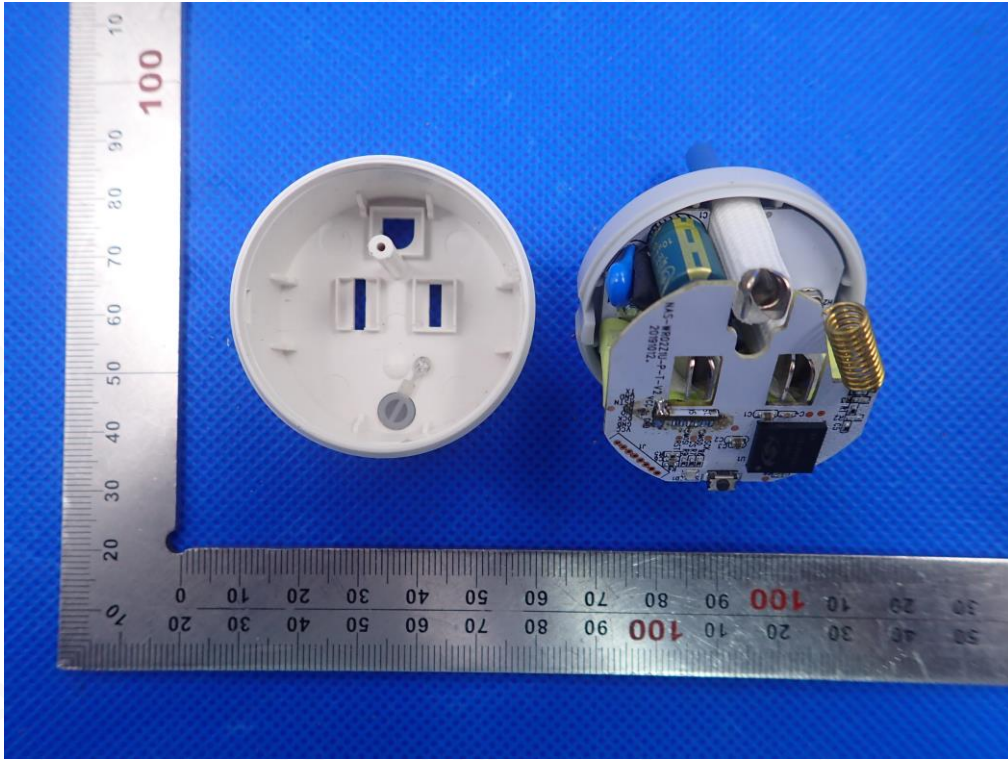
LEFT VIEW OF EUT



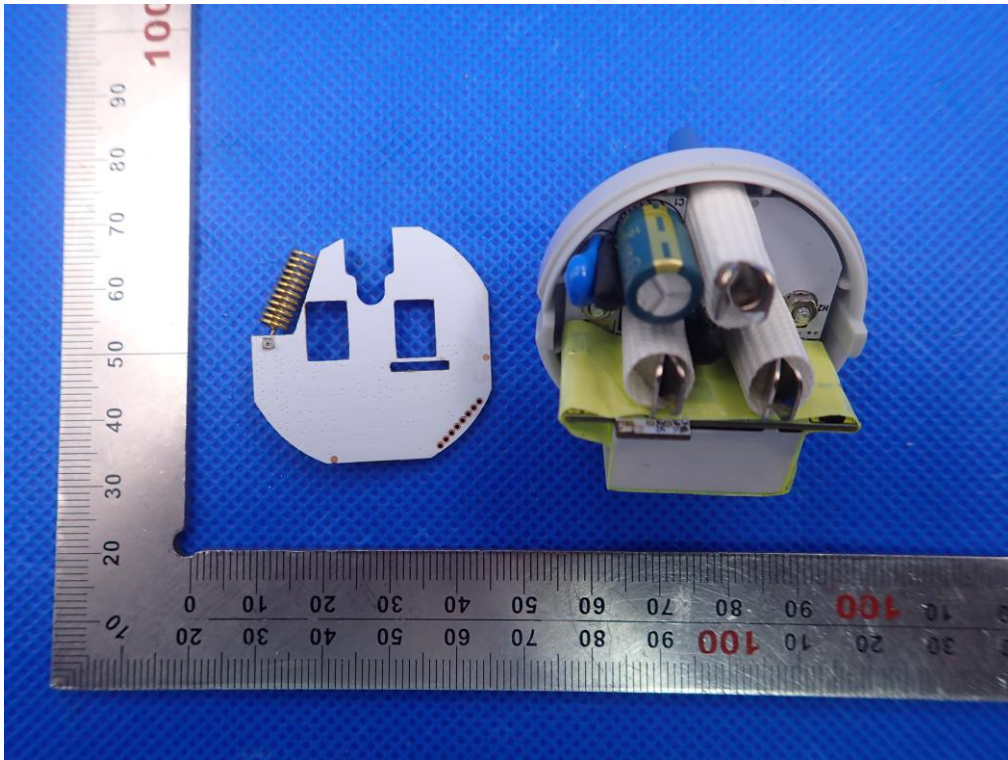
RIGHT VIEW OF EUT



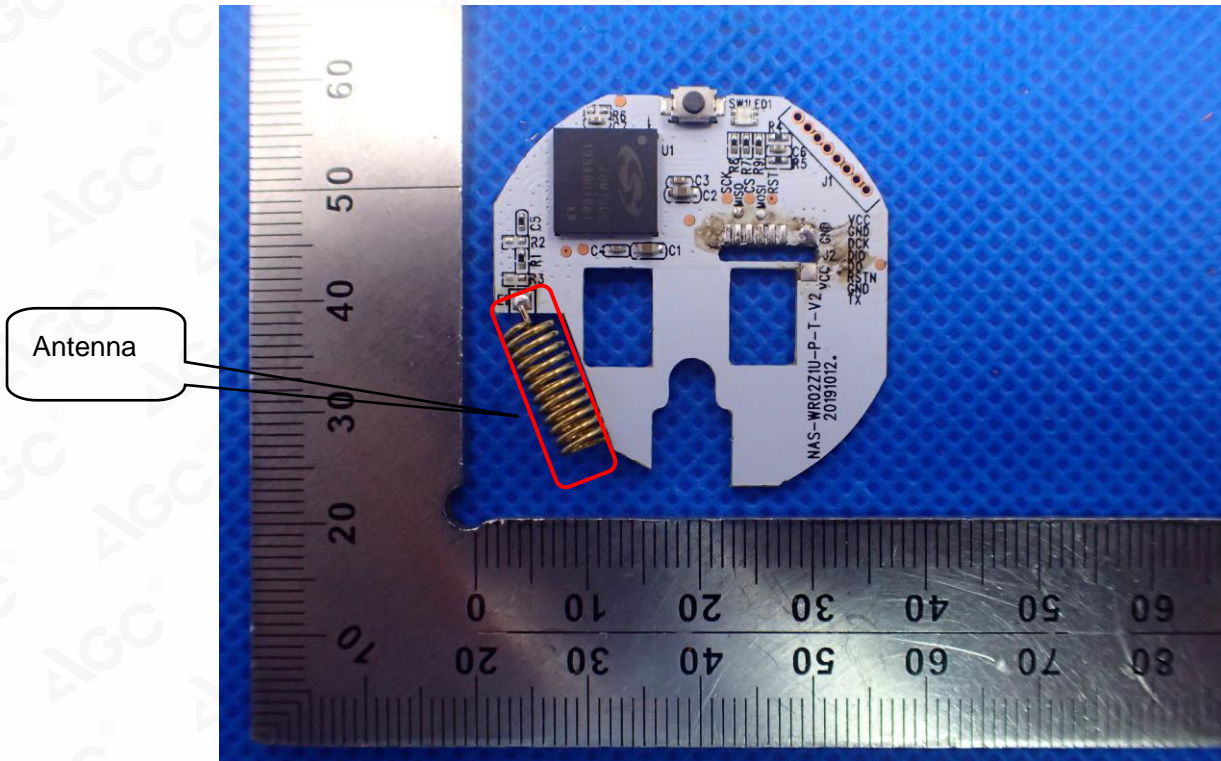
OPEN VIEW OF EUT (FIGURE 1)



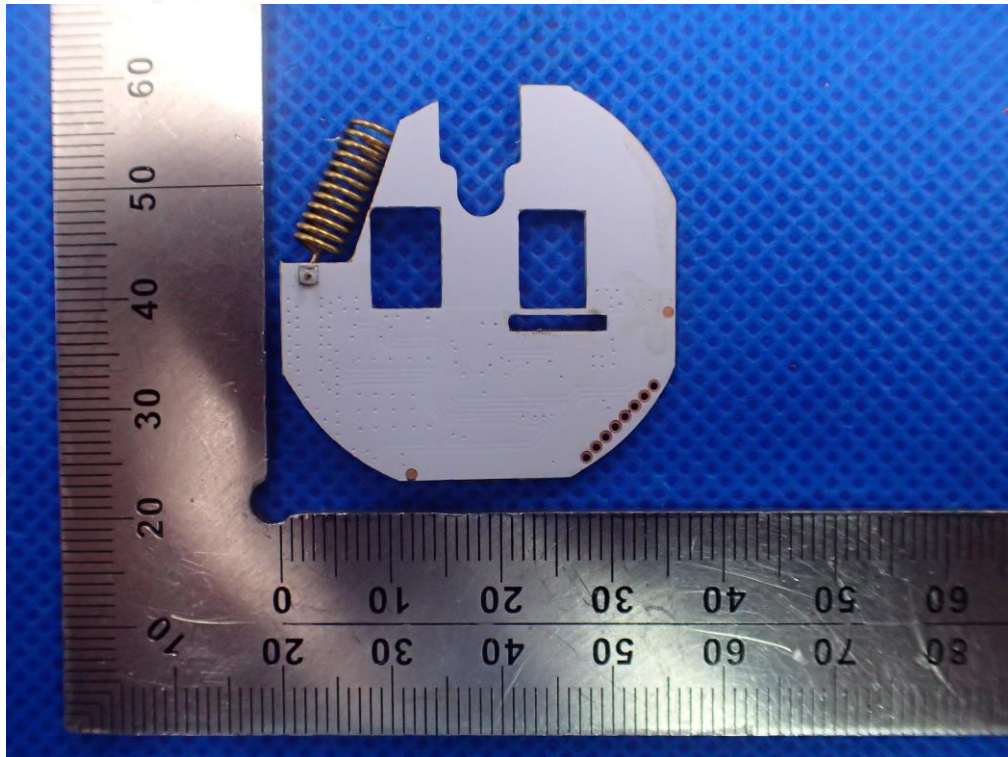
OPEN VIEW OF EUT (FIGURE 2)



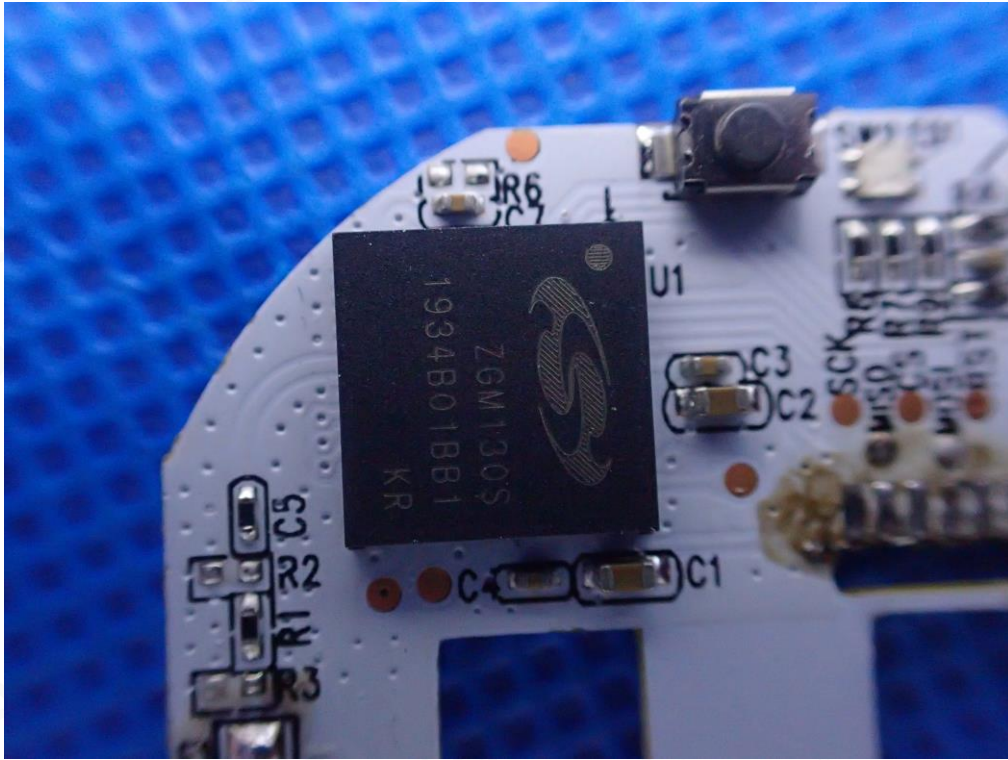
INTERNAL VIEW OF EUT (FIGURE 1)



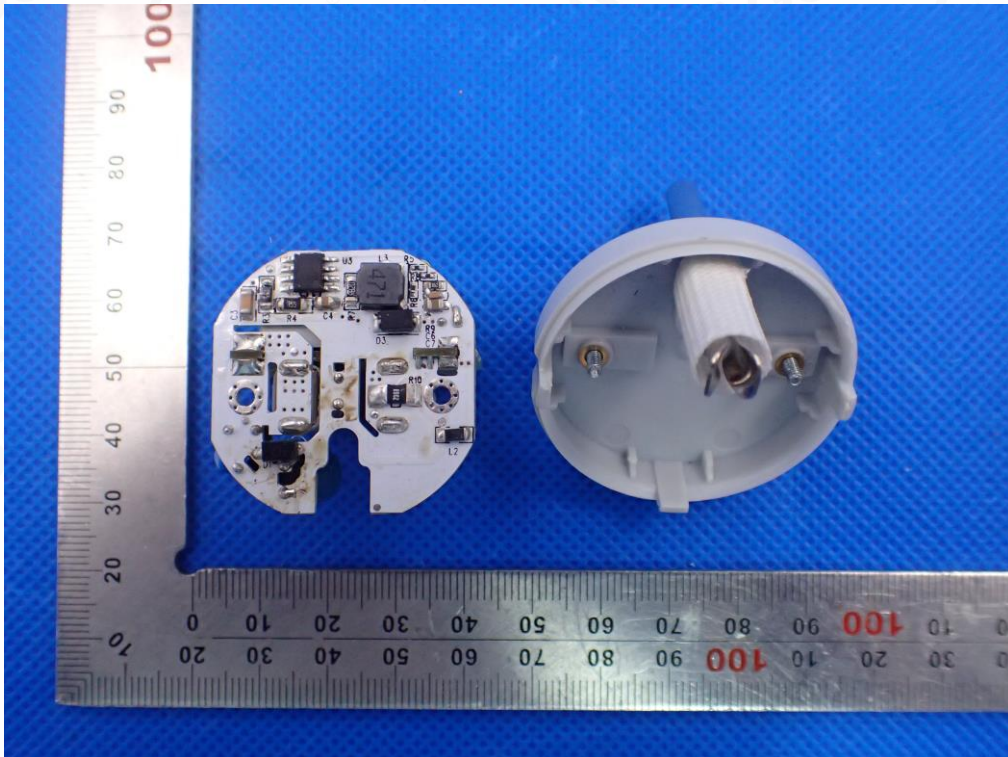
INTERNAL VIEW OF EUT (FIGURE 2)



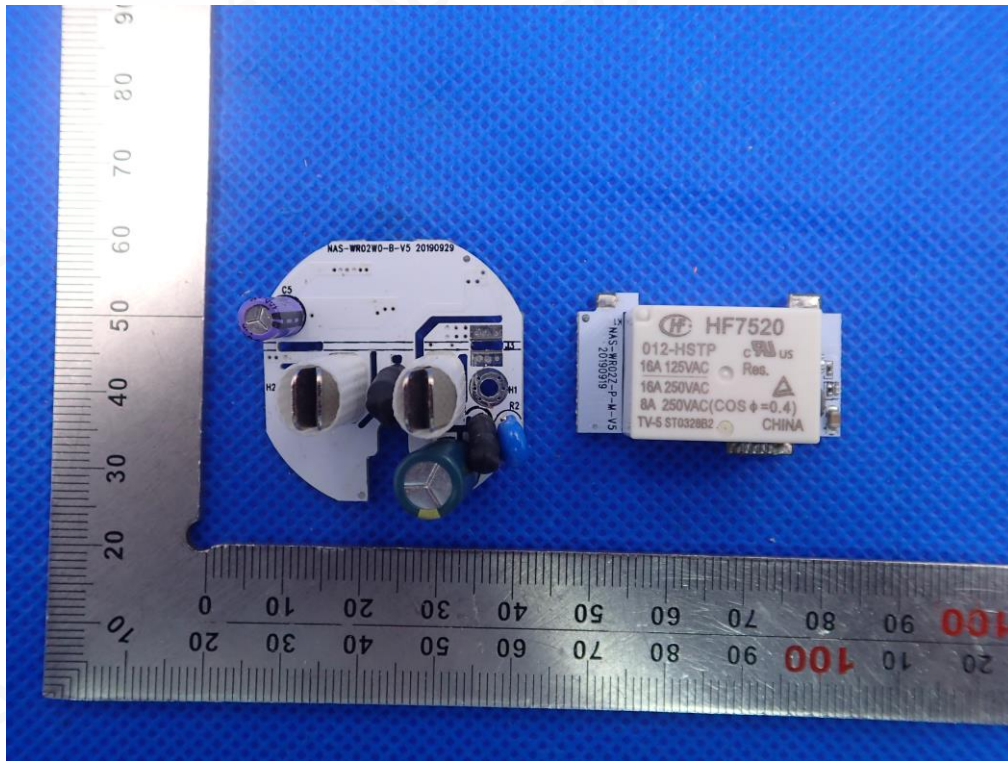
INTERNAL VIEW OF EUT (FIGURE 3)



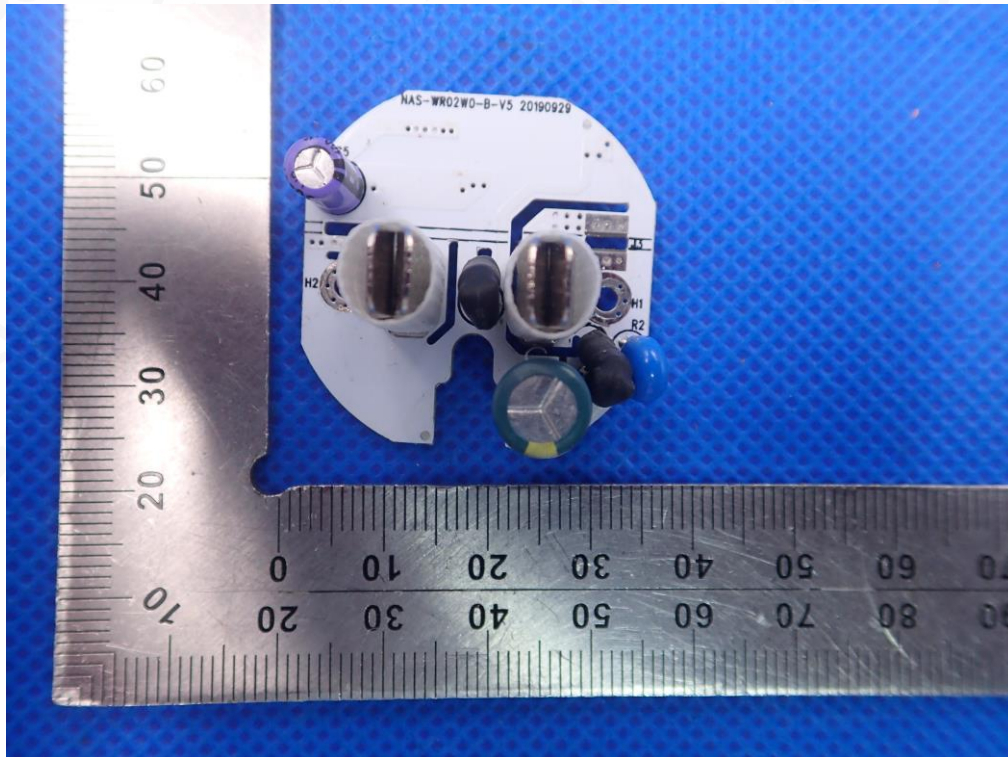
OPEN VIEW OF EUT (FIGURE 3)



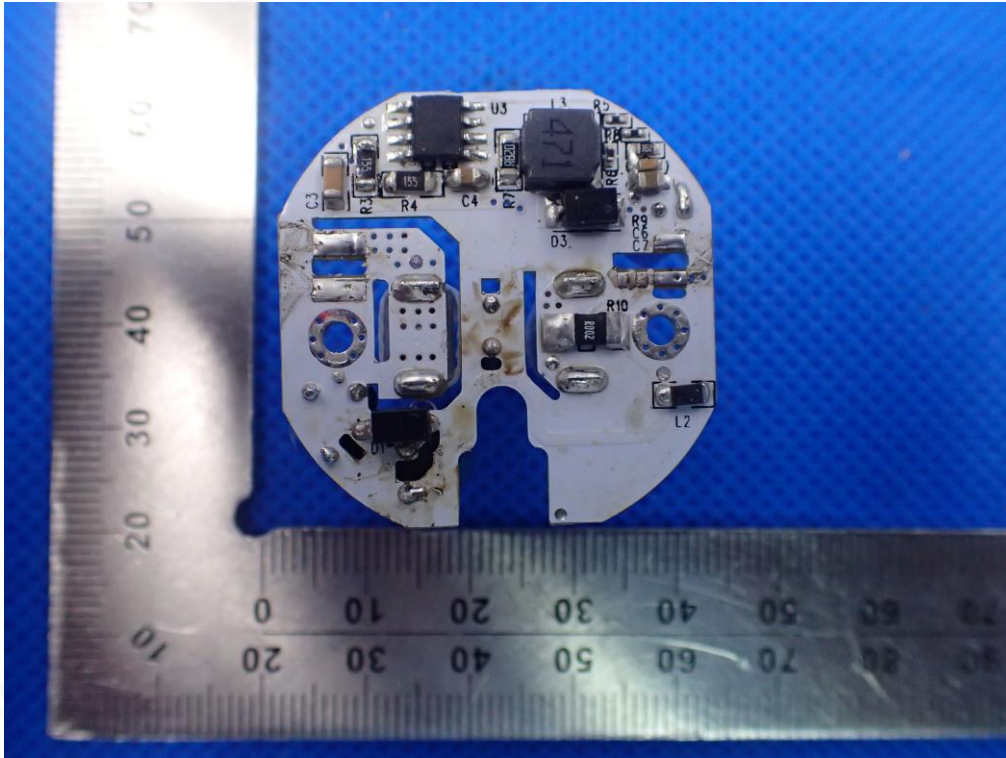
OPEN VIEW OF EUT (FIGURE 4)



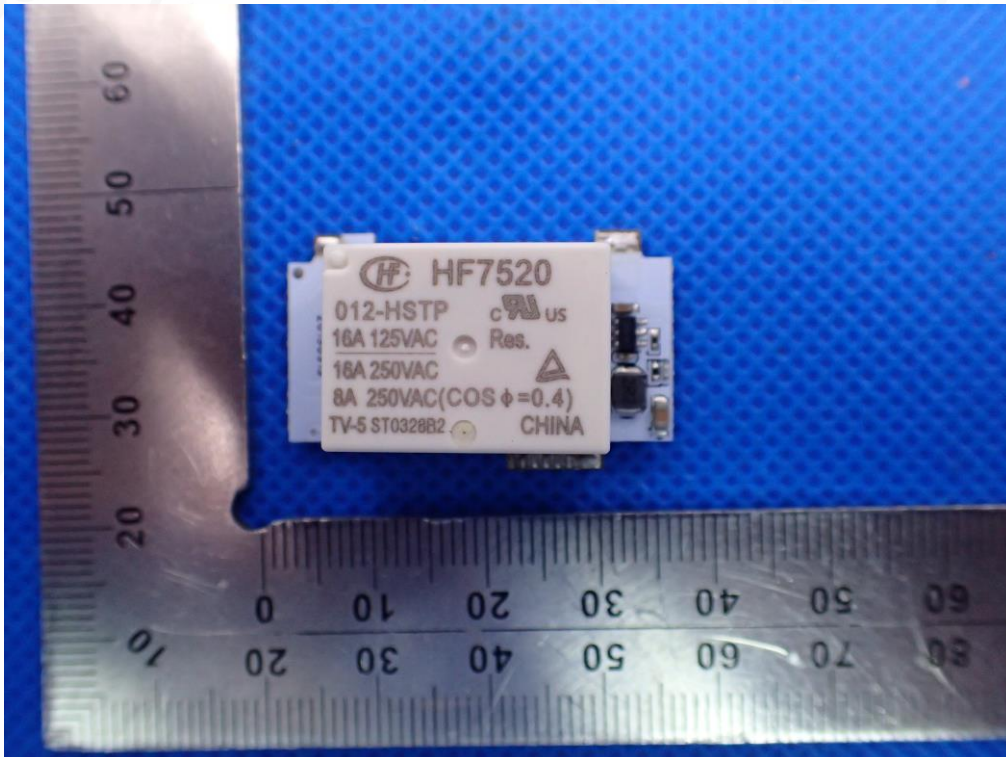
INTERNAL VIEW OF EUT (FIGURE 1)



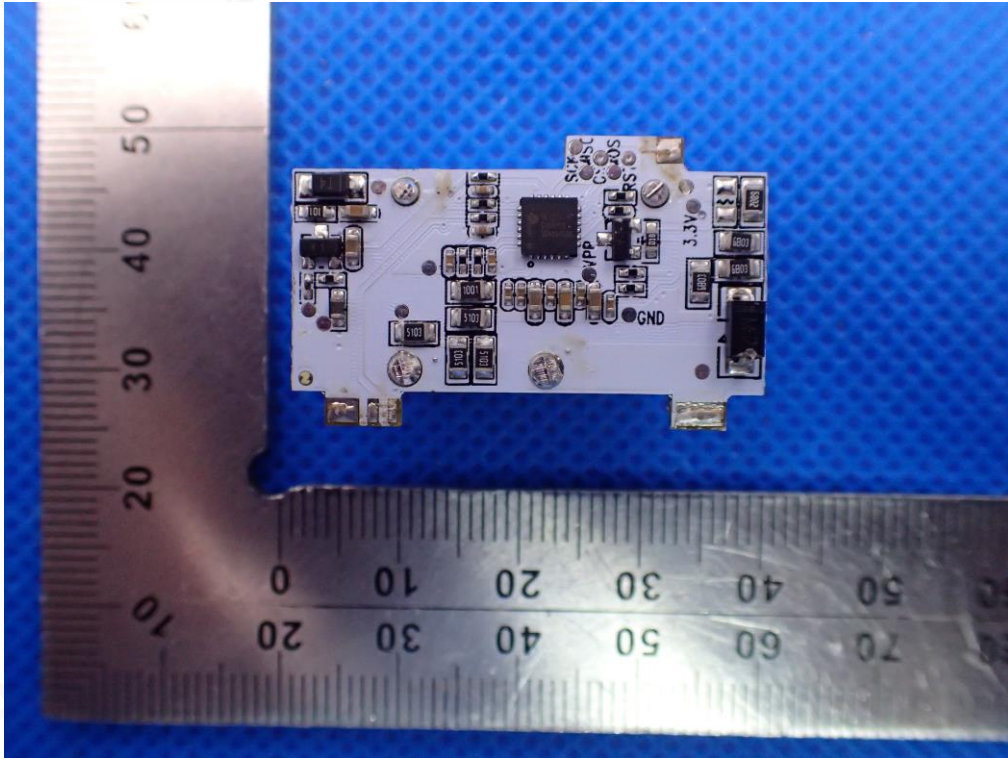
INTERNAL VIEW OF EUT (FIGURE 2)



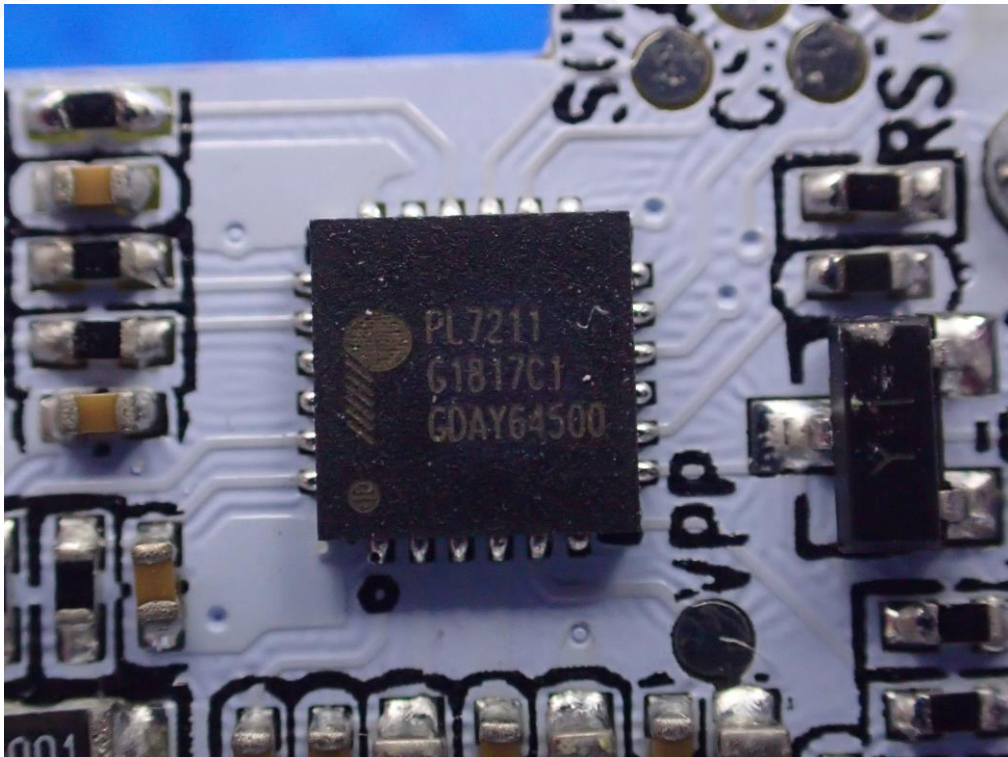
INTERNAL VIEW OF EUT (FIGURE 3)



INTERNAL VIEW OF EUT (FIGURE 4)



INTERNAL VIEW OF EUT (FIGURE 5)



----END OF REPORT----

