

# **FCC Test Report**

Report No.: AGC00800191201FE03

FCC ID : 2AF63-IES3

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION**: Pivotal 20W wireless power transmitter

**BRAND NAME** : Pivotal Commware

MODEL NAME : IES3

**APPLICANT**: NEOSEN ENERGY

**DATE OF ISSUE** : Dec. 12, 2019

STANDARD(S)

TEST PROCEDURE(S) : FCC Part 15 Rules

REPORT VERSION : V1.0

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

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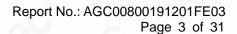


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# REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec. 12, 2019	Valid	Initial Release



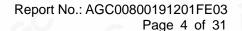




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1. VERIFICATION OF CONFORMITY

SIN ORMITT		
NEOSEN ENERGY		
1506 CAPITAL AVE., SUITE 150, PLANO TX 75074		
NEOSEN ENERGY		
1506 CAPITAL AVE., SUITE 150, PLANO TX 75074		
Suga Electronics		
Suga High-tech Industrial Park, No. 8, Fulong Road, Sanzhong, Qingxi Town, Dongguan, Guangdong, PRC		
Pivotal 20W wireless power transmitter		
Pivotal Commware		
IES3		
Dec. 04, 2019~Dec. 12, 2019		
No any deviation from the test method.		
Normal		
Pass		
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 Section 15.207, 15.209, 15.203 of the FCC Part 15, Subpart C Rules. The results of testing in this report apply to the product/system which was tested only.

Calvin Liu
(Project Engineer)

Reviewed By

Max Zhang
(Reviewer)

Dec. 12, 2019

Dec. 12, 2019

Lorrost un

Forrest Lei
( Authorized Officer)

Dec. 12, 2019



Approved By



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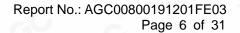
# 2. GENERAL INFORMATION

# 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	110-205kHz
Test Frequency	125.8kHz
Maximum field strength	55.65dBuV/m(PK)@3m
Modulation	FSK
Number of channels	1 0 00
Antenna Gain	0dBi
Antenna Designation	Coil Antenna
Hardware Version	OC7-11C_Pivotal-TX-p2
Software Version	FW.
Power Supply DC 24V 1.5A	







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, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB



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# 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION		
1	Wireless charging Mode(Full load)		
2	Wireless charging Mode(half load)		
3	Wireless charging Mode(Null load)		

#### Note:

1. The mode 1 was the worst case and only the data of the worst case record in this report.



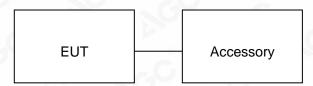


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# 5. SYSTEM TEST CONFIGURATION

# **5.1. CONFIGURATION OF EUT SYSTEM**

Configure:



#### 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Pivotal 20W wireless power transmitter	IES3	2AF63-IES3	EUT
2	Load	N/A	10W	Accessory
3	Adapter	PPL36U-240(PV)	DC 24V 1.5A	Accessory

# **5.3. SUMMARY OF TEST RESULTS**

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

Note: N/A stands for not applicable.



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# 6. TEST FACILITY

Test Site Attestation of Global Compliance (Shenzhen) Co., Ltd	
Location  1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping 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	

## 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. 20, 2018	Dec. 19, 2019
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun.12, 2019	Jun.11, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	Tonscend	JS32-RE	N/A	N/A	N/A
Test software	FARA	EZ_EMC (Ver-03A)	N/A	N/A	N/A



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# 7. RADIATED EMISSION

#### 7.1TEST LIMIT

#### Standard FCC 15.209

Frequency	Distance	Field	Field Strengths Limit	
(MHz)	Meters	μ <b>V/m</b>	dB(μV)/m	
0.009 ~ 0.490	300	2400/F(kHz)	G 2G	
0.490 ~ 1.705	30	24000/F(kHz)		
1.705 ~ 30	30	30	0	
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(µV)/m	ι (Peak) 54.0 dB(μV)/m (Average)	

Remark:

- (1) Emission level  $dB\mu V = 20 \log Emission level \mu V/m$
- (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.



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#### 7.2. MEASUREMENT PROCEDURE

- 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. 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		

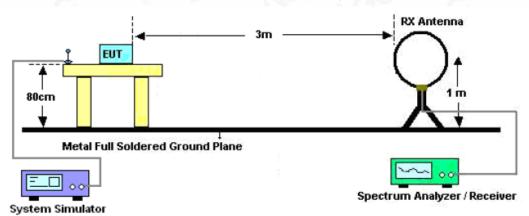
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP





#### 7.3. TEST SETUP

# Radiated Emission Test-Setup Frequency Below 30MHz



#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz





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#### 7.4. TEST RESULT

#### **RADIATED EMISSION BELOW 30MHZ**

Frequency MHz	Polarization	Reading dB(uV) PK	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) PK	Margin dB	Pass/Fail
0.1258	Face	45.25	10.40	55.65	105.61	-49.96	Pass
0.1258	Side	35.18	10.40	45.58	105.61	-60.03	Pass

Note1: No other emissions found between lowest internal used/generated frequencies to 30MHz. The peak level of the emission is less than the average limit, so the average level shall be less than the limit without test.

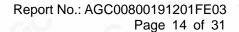
Note 2: Level(dBuV/m)=Reading(dBuV)+Factor(dB/m)

Factor(dB/m)=Antenna Factor(dB/m)+Cable loss(dB)+Attenuation(dB)for Attenuator

Margin=Level-Limit

Limit(dBuV/m)=20log(2400/F(kHz))+40log(300/3)=105.22dBuV/m.

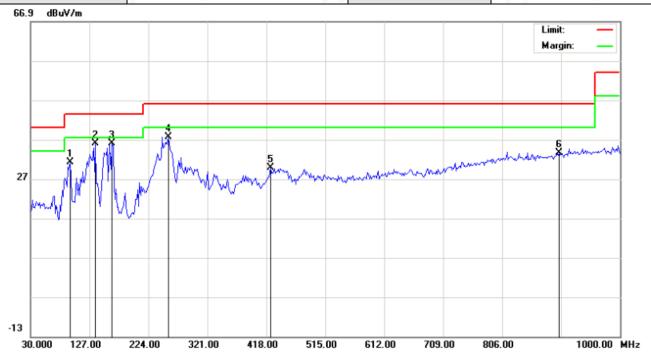






**RADIATED EMISSION 30MHz-1GHz** 

EUT:	Pivotal 20W wireless power transmitter	Model Name. :	IES3
Temperature:	23.5℃	Relative Humidity:	52.6%
Pressure:	1010 hPa	Test Voltage :	DC 24V
Test Mode :	Mode 1	Polarization:	Horizontal

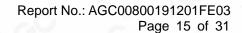


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		94.6667	15.81	15.46	31.27	43.50	-12.23	peak			
2	*	136.7000	17.03	19.02	36.05	43.50	-7.45	peak			
3		164.1833	17.28	18.76	36.04	43.50	-7.46	peak			
4		256.3333	19.27	18.37	37.64	46.00	-8.36	peak			
5		424.4667	6.27	23.47	29.74	46.00	-16.26	peak			
6		899.7667	2.00	31.70	33.70	46.00	-12.30	peak			



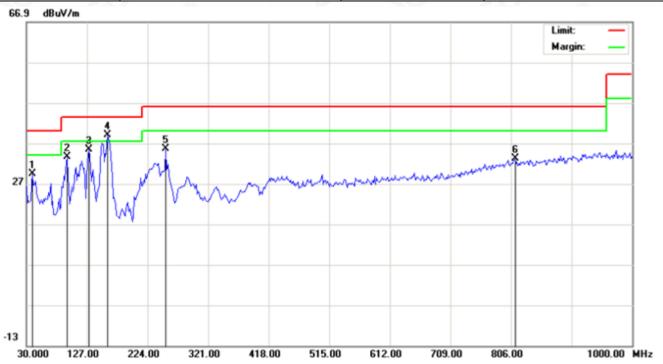
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F()  •	Pivotal 20W wireless power transmitter	Model Name. :	IES3
Temperature:	23.5℃	Relative Humidity:	52.6%
Pressure:	1010 hPa	Test Voltage :	DC 24V
Test Mode :	Mode 1	Polarization :	Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		39.7000	9.50	19.98	29.48	40.00	-10.52	peak			
2		94.6667	18.09	15.46	33.55	43.50	-9.95	peak			
3		130.2332	16.79	18.61	35.40	43.50	-8.10	peak			
4	*	159.3333	19.89	19.19	39.08	43.50	-4.42	peak			
5		253.1000	17.16	18.43	35.59	46.00	-10.41	peak		·	·
6		812.4667	2.73	30.57	33.30	46.00	-12.70	peak			

# **RESULT: PASS**

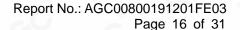
Note: Factor=Antenna Factor + Cable loss, Margin=Limit-Level.

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



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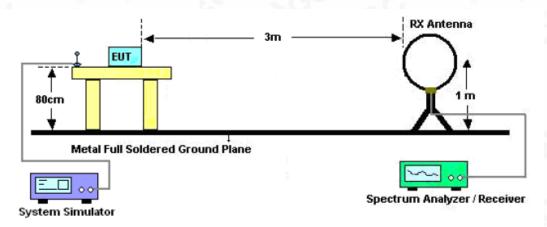


#### 8. 20DB BANDWIDTH

#### **8.1. MEASUREMENT PROCEDURE**

- 1. The EUT was placed on the top of the turntable 0.8 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, Set the EUT Work on operation frequency.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a channel
  The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video
  bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

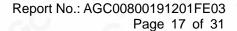
#### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)





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#### 8.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH	70	~G <sup>C</sup>	-6	0	
TEST MODULATION	FSK	8		10	100	0

Test Data (Hz)	Criteria		
Operate Channel	952	PASS	

#### **TEST PLOT OF BANDWIDTH**

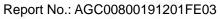




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# 9. FCC LINE CONDUCTED EMISSION TEST

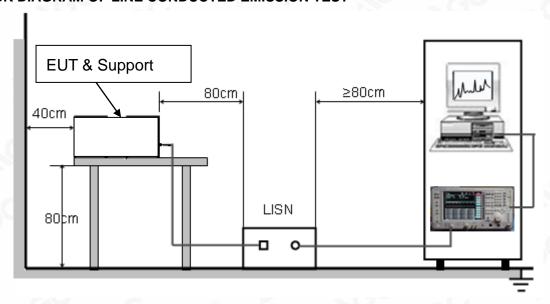
#### 9.1. LIMITS OF LINE CONDUCTED EMISSION TEST

<b>-</b>	Maximum RF Line Voltage						
Frequency	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 0.50MHz.

# 9.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST





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#### 9.3. 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 charging voltage by adapter which received 120V/60Hzpower 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.

### 9.4. 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.



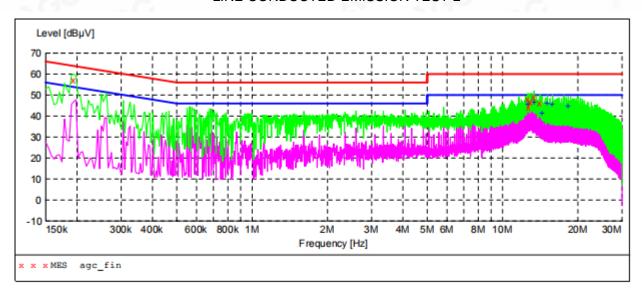
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# 9.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

#### LINE CONDUCTED EMISSION TEST-L



# MEASUREMENT RESULT: "agc fin"

2/11 14:	14						
quency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.4000	E7 10	10.0	6.4	6 0	OB	T 1	ELO
194000	57.10	10.0	04	0.0	QP	111	FLO
526000	48.20	11.7	60	11.8	QP	L1	FLO
750000	44.40	11.7	60	15.6	QP	L1	FLO
994000	46.40	11.7	60	13.6	QP	L1	FLO
362000	49.00	11.8	60	11.0	QP	L1	FLO
114000	46.20	11.8	60	13.8	QP	L1	FLO
	94000 526000 750000 94000 862000	MHz dBμV 1.94000 57.10 526000 48.20 750000 44.40 994000 46.40 862000 49.00	quency Level Transd dB	quency         Level dBμV         Transd dB dBμV         Limit dBμV           .94000         57.10         10.8         64           .526000         48.20         11.7         60           .750000         44.40         11.7         60           .94000         46.40         11.7         60           .62000         49.00         11.8         60	quency         Level dBμV         Transd dB dBμV         Limit dB dBμV         Margin dB           194000         57.10         10.8         64         6.8           250000         48.20         11.7         60         11.8           750000         44.40         11.7         60         15.6           994000         46.40         11.7         60         13.6           862000         49.00         11.8         60         11.0	quency         Level dBμV         Transd dB dBμV         Limit dB dBμV         Margin dB         Detector dB           194000         57.10         10.8         64         6.8         QP           526000         48.20         11.7         60         11.8         QP           750000         44.40         11.7         60         15.6         QP           994000         46.40         11.7         60         13.6         QP           362000         49.00         11.8         60         11.0         QP	quency         Level dBμV         Transd dB dBμV         Limit dBμV         Margin dB         Detector Line dBμV           194000         57.10         10.8         64         6.8         QP         L1           526000         48.20         11.7         60         11.8         QP         L1           750000         44.40         11.7         60         15.6         QP         L1           894000         46.40         11.7         60         13.6         QP         L1           862000         49.00         11.8         60         11.0         QP         L1

#### MEASUREMENT RESULT: "agc fin2"

2019/12/11	14:14						
Frequency		Transd	Limit	Margin	Detector	Line	PE
MH2	dBµV	dB	dΒμV	dB			
12.622000	45.80	11.7	50	4.2	AV	L1	FLO
13.362000	46.80	11.8	50	3.2	AV	L1	FLO
14.358000	41.40	11.8	50	8.6	AV	L1	FLO
15.098000	46.30	11.9	50	3.7	AV	L1	FLO
15.838000	45.50	12.0	50	4.5	AV	L1	FLO
18.314000	44.60	12.2	50	5.4	AV	L1	FLO

#### **RESULT: PASS**



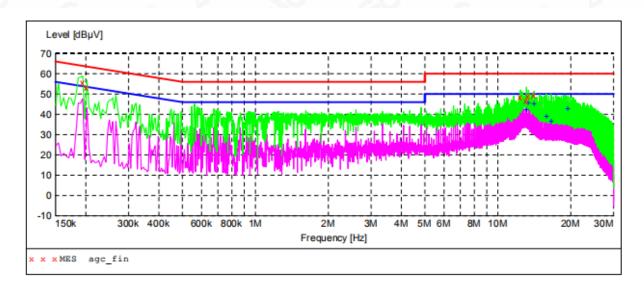
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Service Hotline: 400 089 2118



# LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "agc\_fin"

9	$\alpha$	0	/10	/11	7.4.	9.7
4	UΤ	9,	/12	/ 1 1	14:	_ /

2019/12/11 14:	1/						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
0.194000	55.70	10.8	64	8.2	QP	N	FLO
0.202000	53.00	10.8	64	10.5	QP	N	FLO
12.382000	48.40	11.7	60	11.6	QP	N	FLO
13.126000	46.40	11.8	60	13.6	QP	N	FLO
13.370000	49.10	11.8	60	10.9	QP	N	FLO
14.106000	49.50	11.8	60	10.5	OP	N	FLO

MEASUREMENT RESULT: "agc fin2"

2019/12/11

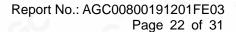
2013/12	/11 17.	10						
Freq	uency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
12.1						217		ELO
	26000	42.10	11.8	50	7.9	AV	N	FLO
13.3	70000	45.60	11.8	50	4.4	AV	N	FLO
14.1	10000	45.30	11.8	50	4.7	AV	N	FLO
15.8	46000	38.70	12.0	50	11.3	AV	N	FLO
16.5	94000	36.70	12.0	50	13.3	AV	N	FLO
19.4	30000	42.80	12.3	50	7.2	AV	N	FLO

**RESULT: PASS** 



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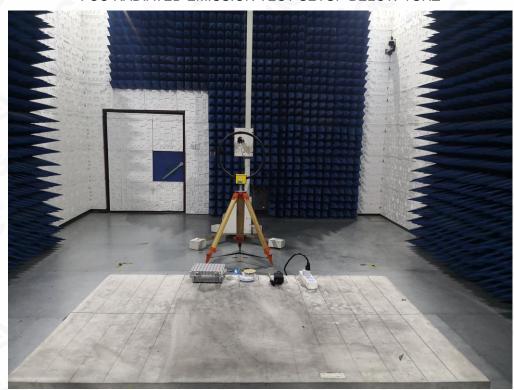
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, 

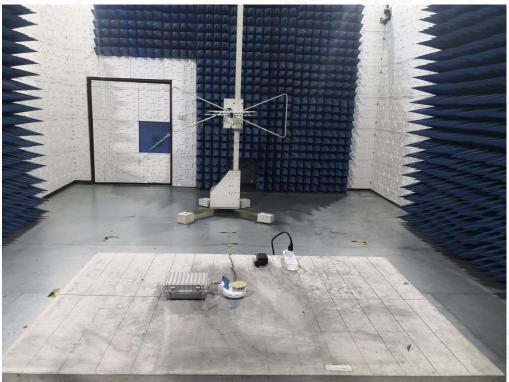




APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ

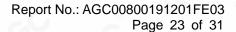






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Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,





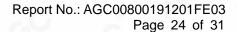
FCC LINE CONDUCTED EMISSION TEST SETUP





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Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,





**APPENDIX B: PHOTOGRAPHS OF EUT** 

ALL VIEW OF EUT



TOP VIEW OF EUT



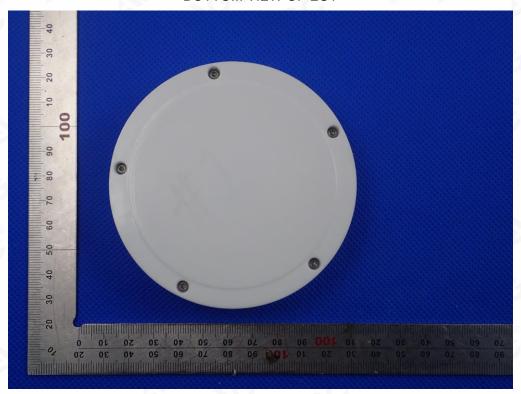


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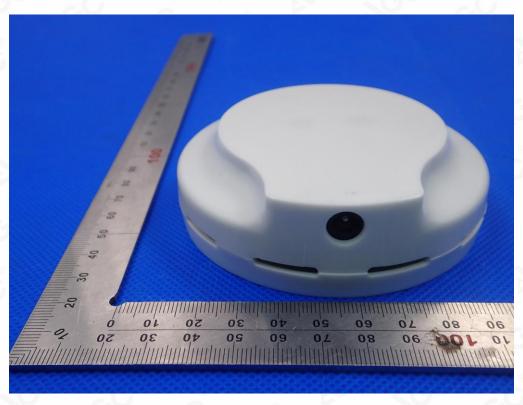
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,



# **BOTTOM VIEW OF EUT**



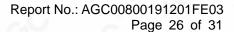
FRONT VIEW OF EUT





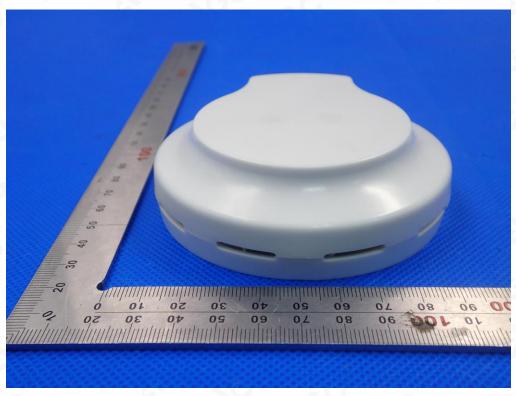
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

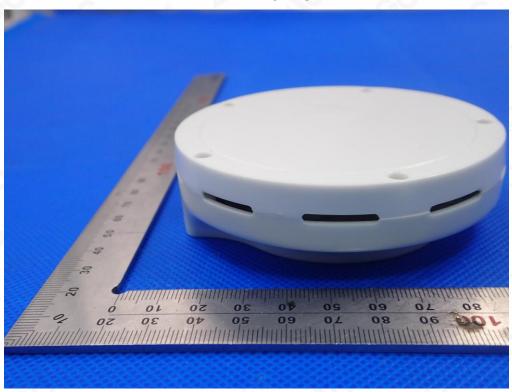




# **BACK VIEW OF EUT**



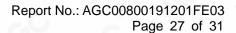
**LEFT VIEW OF EUT** 





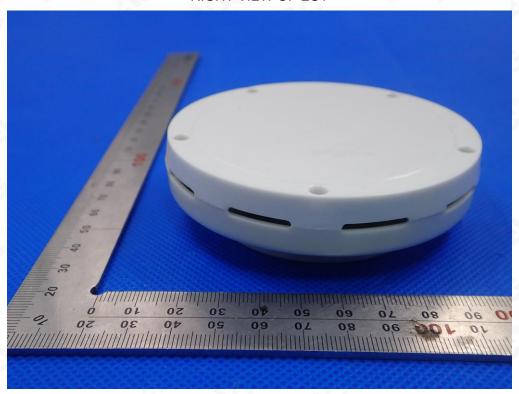
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

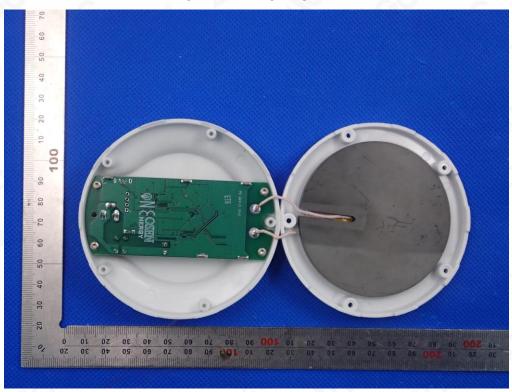




# **RIGHT VIEW OF EUT**



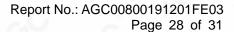
**OPEN VIEW OF EUT-1** 





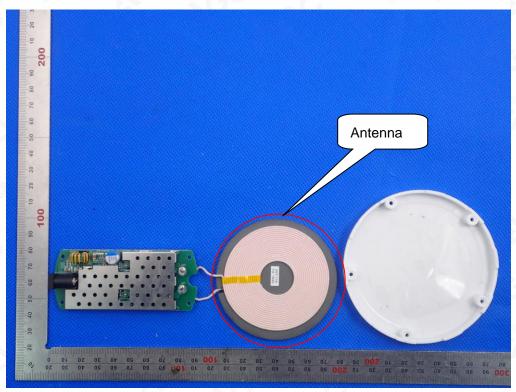
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Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,





# **OPEN VIEW OF EUT-2**



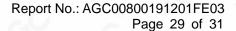
**INTERNAL VIEW-1 OF EUT** 





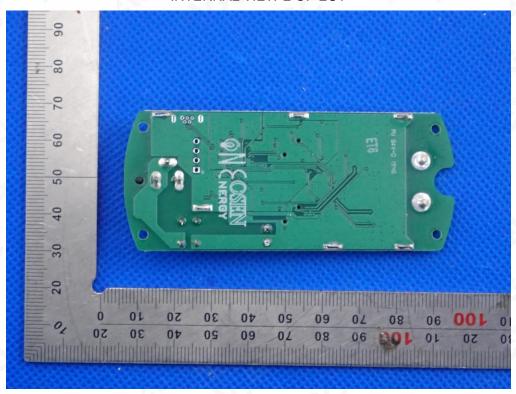
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Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

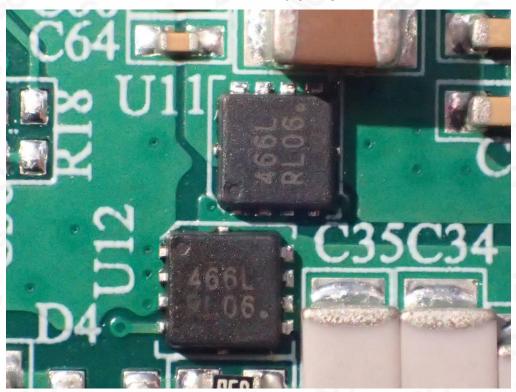




# **INTERNAL VIEW-2 OF EUT**



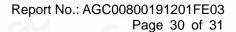
**INTERNAL VIEW-3 OF EUT** 





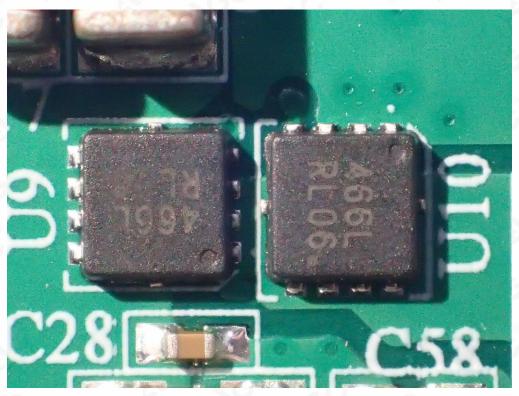
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Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,





# **INTERNAL VIEW-4 OF EUT**



**INTERNAL VIEW-5 OF EUT** 



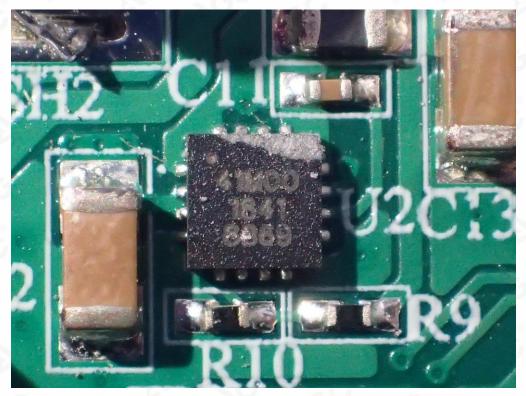


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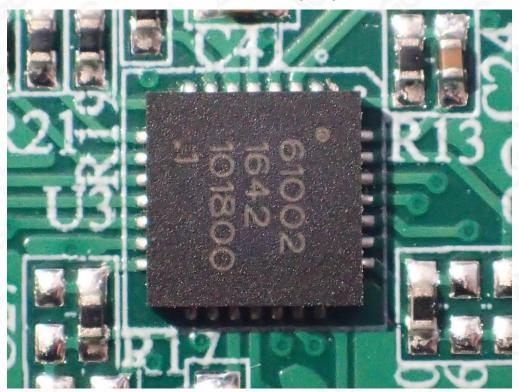
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,



# **INTERNAL VIEW-6 OF EUT**



**INTERNAL VIEW-7 OF EUT** 



----END OF REPORT----



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

Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,

Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755 2523 4088 E-mail:agc@agc-cert.com Service Hotline:400 089 2118