

# **FCC Test Report**

Report No.: AGC05888190401FE03

FCC ID : YI6RL-R10A

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: PIR ALARM KIT

BRAND NAME : RL

**MODEL NAME** : RL-9830G4, RL-9830G, RL-9830G1

: GUANGDONG ROULE ELECTRONICS CO., LTD.

**DATE OF ISSUE** : Apr. 24, 2019

STANDARD(S)

**TEST PROCEDURE(S)** 

: FCC Part 15 Subpart C Section 15.231

**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		Apr. 24, 2019	Valid	Initial release

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# 1. VERIFICATION OF CONFORMITY

Applicant	GUANGDONG ROULE ELECTRONICS CO., LTD.		
Address	No. 12, Pingdong 3rd Road, Nanping Industry Community, Zhuhai City, GuangDong, China		
Manufacturer	GUANGDONG ROULE ELECTRONICS CO., LTD.		
Address	No. 12, Pingdong 3rd Road, Nanping Industry Community, Zhuhai City, GuangDong, China		
Factory	GUANGDONG ROULE ELECTRONICS CO., LTD.		
Address	No. 12, Pingdong 3rd Road, Nanping Industry Community, Zhuhai City, GuangDong, China		
Product Designation	PIR ALARM KIT		
Brand Name	RL The state of th		
Test Model	RL-9830G4		
Series Model	es Model RL-9830G, RL-9830G1		
Difference Description All the same except for the model name			
Date of test	Apr. 18, 2019 to Apr. 24, 2019		
Deviation	None		
Condition of Test Sample	Normal Management of the second of the secon		
Test Result	Pass ® @ Management   Pass   P		
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, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.231. The test results of this report relate only to the tested sample identified in this report.

Tested By	Draven	di
	Draven Li(Li Ming Liang)	Apr. 24, 2019
Reviewed By	Max 2h	any
	Max Zhang(Zhang Yi)	Apr. 24, 2019
Approved By	Foresto	e It to the state of the state
	Forrest Lei(Lei Yonggang) Authorized Officer	Apr. 24, 2019

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# 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

A major technical description	in of Lot is described as following
Operation Frequency	433.967MHz
Field Strength(3m)	68.30dBuV/m(Peak)@3m
Modulation	ASK
Number of channels	
Hardware Version	RL-R10A REV0.2
Software Version	V1.0
Antenna Designation	PCB antenna
Antenna Gain	0dBi
Power Supply	DC 3V by battery

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#### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- 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
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %

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#### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION	
© Att Month College	Transmitting mode	拉测

#### Note

- 1. All the test modes can be supply by new battery, and only the data of the worst case recorded in the test report.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

# 5. SYSTEM TEST CONFIGURATION

#### **5.1. CONFIGURATION OF EUT SYSTEM**

Configure 1:

**EUT** 

#### **5.2. EQUIPMENT USED IN EUT SYSTEM**

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	RL braided headphones	RL	RL-9830G4	EUT

#### 5.3. SUMMARY OF TEST RESULTS

		(N) 2002 - N
FCC RULES DESCRIPTION OF TEST		RESULT
§15.203	Antenna Requirement	Compliant
§15.231(a)(1)	Manually operated transmitter	Compliant
§15.231(b)	Average Factor	N/A
§15.231(e) & §15.209	Field Strength of Fundamental and Spurious Emission	Compliant
§15.231(c)	Bandwidth	Compliant

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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 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		

# 7. TEST EQUIPMENT LIST

# **TEST EQUIPMENT OF RADIATED EMISSION TEST**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2018	Jun. 11, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 12, 2018	Jun. 11, 2019
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019

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#### 8. PROVISION FOR MOMENTARY OPERATION

#### **8.1 MEASUREMENT PROCEDURE**

1. Set the parameters of SPA as below:

Centre frequency = Operation Frequency

RBW=1MHz, VBW=3MHz

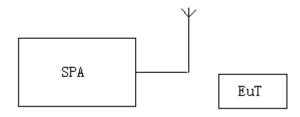
Span: 0Hz

Sweep time: 1000S

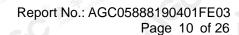
Set the EUT to transmit by manually operated. Use the "View" function of SPA to find the transmission time of being released.

3. Record the data and Reported.

#### **8.2 TEST SETUP**



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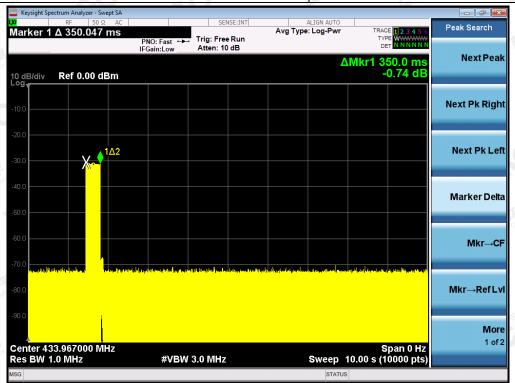




#### 8.3 TEST RESULT

#### Test Mode: EUT @ 433.967MHz for RF Transmitter

- Kil plance	The time of stopping transmission	Limit (s)
Ve Plopal Coll.	0.350	5.00



**RESULT: PASS** 

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#### 9. DUTY CYCLE CORRECTION FACTOR

#### 9.1 MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:

Centre frequency = Operation Frequency

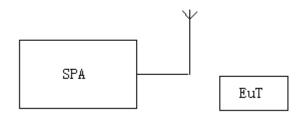
RBW=1MHz; VBW=3MHz

Span: 0Hz

Sweep time: more than two pulse trains or more than each type of pulse occupancy time

- 2. Set the EUT to transmit by manually operated. Use the "Delta mark" function of SPA to find the period time between two pulse trains and each type of pulse occupancy time.
- 3. Record the plots and Reported.

#### 9.2 TEST SETUP



#### 9.3 TEST RESULT

Note: The level of the peak emission are less than the average limit, so the average factor need not to be tested

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#### 10. RADIATED EMISSION

#### 10.1. 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.
- 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 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. 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.
- 0. 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.

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

	Spectrum Parameter	Setting
K Mi Compliance	Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP
© <b>%</b>	Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP
CO	Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP
T I delocate	Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

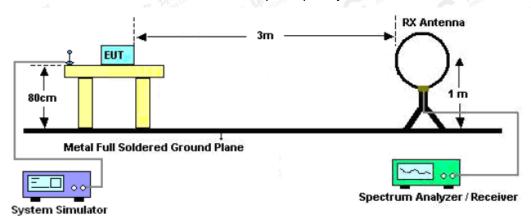
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP

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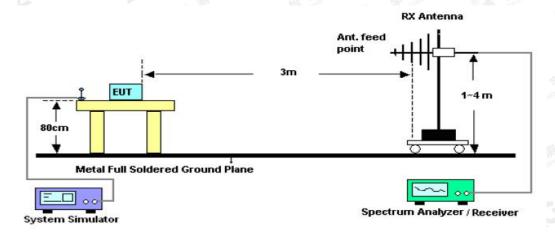


#### 10.2. TEST SETUP

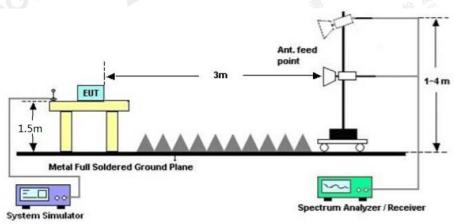
# Radiated Emission Test-Setup Frequency Below 30MHz



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



# RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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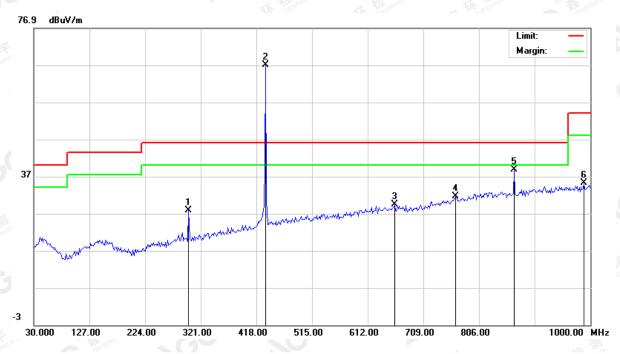
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#### 10.3. TEST RESULT

# Test Mode: EUT @ 433.967MHz for RF Transmitter RADIATED EMISSION BELOW 30MHz

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

#### **RADIATED EMISSION BELOW 1GHZ-Horizontal**



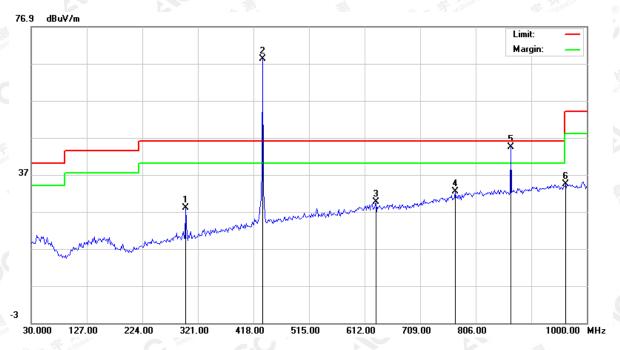
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1		299.9833	8.25	19.47	27.72	46.00	-18.28	peak			
2	*	433.9677	43.30	23.67	66.97	80.80	-13.83	peak			
3		658.8832	1.67	27.66	29.33	46.00	-16.67	peak			
4		765.5833	1.99	29.63	31.62	46.00	-14.38	peak			
5		867.9343	7.62	31.28	38.90	60.80	-21.90	peak			
6		988.6833	2.74	32.46	35.20	54.00	-18.80	peak			

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# **RADIATED EMISSION BELOW 1GHZ-Vertical**



No	). N	Лk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
L		•	MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1			299.9833	8.50	19.47	27.97	46.00	-18.03	peak			
2	,	*	433.9672	44.63	23.67	68.30	80.80	-12.50	peak			
3			631.4000	2.26	27.33	29.59	46.00	-16.41	peak			
4			770.4333	2.68	29.74	32.42	46.00	-13.58	peak			
5		į	867.9343	13.14	31.28	44.42	60.80	-16.38	peak			
6			962.8167	2.11	32.24	34.35	54.00	-19.65	peak			

# **RESULT: PASS**

Note: 1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. Emissions of frequency range from 1GHz to 5GHz have 20dB margin. No recording in the test report.

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# 11. BANDWIDTH

#### 11.1. MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:

Centre frequency = Operation Frequency

RBW=0.47KHz

VBW=1.5KHz

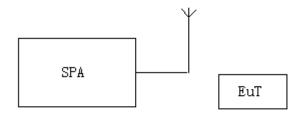
Span: 50kHz

Sweep time: Auto

Set the EUT to continue transmitting mode. Allow the trace to stabilize. Use the "N dB down" function of SPA to define the bandwidth.

3. Record the plots and Reported.

#### 11.2. TEST SETUP



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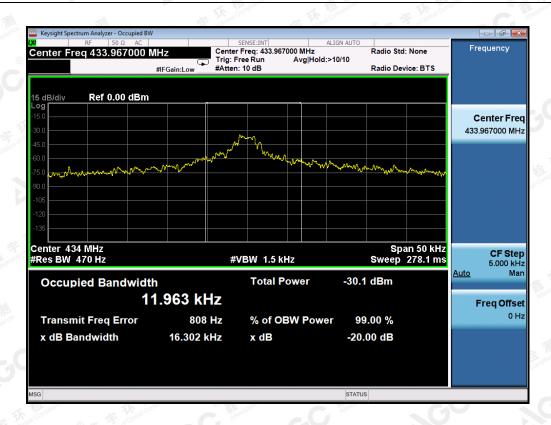


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#### 11.3. TEST RESULT

#### Test Mode: EUT @ 433.967MHz for RF Transmitter

K Pampliance	-20dB bandwidth	© Management LIMIT	700	RESULT
Clopal C	16.302kHz	1084.9KHz		Pass
-C 3	Note: Limit= Operation Freq	THE SALE	The Compile	

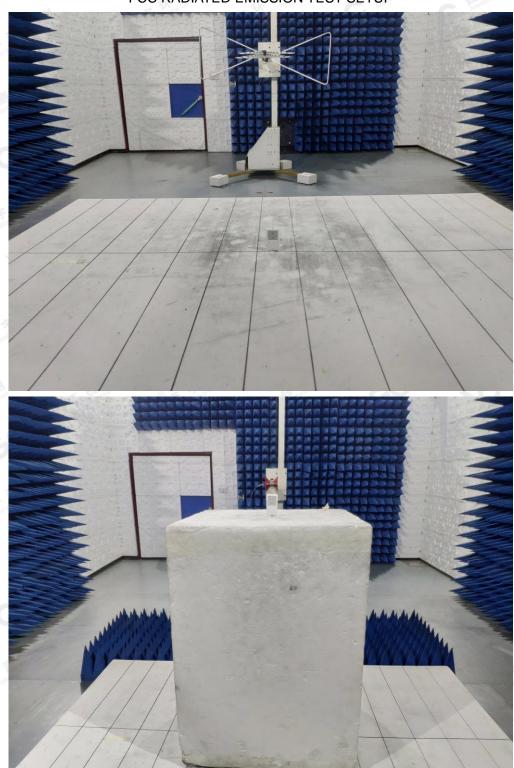


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# **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

FCC RADIATED EMISSION TEST SETUP



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# **APPENDIX B: PHOTOGRAPHS OF EUT**

**ALL VIEW OF EUT** 



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#### TOP VIEW OF EUT



**BOTTOM VIEW OF EUT** 



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# FRONT VIEW OF EUT



**BACK VIEW OF EUT** 



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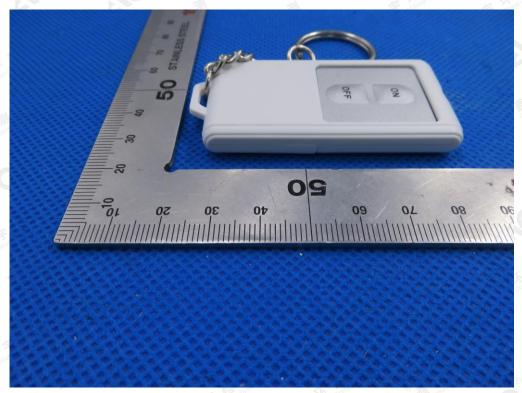
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# LEFT VIEW OF EUT



RIGHT VIEW OF EUT



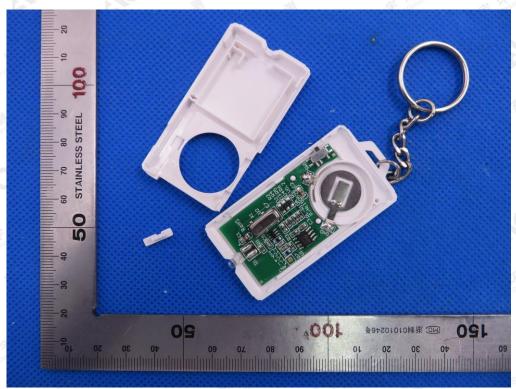
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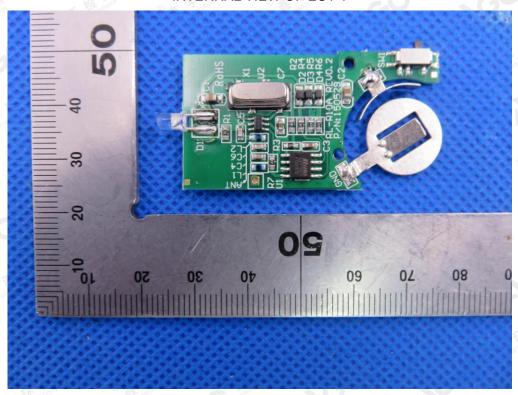
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# **OPEN VIEW OF EUT-1**



**INTERNAL VIEW OF EUT-1** 



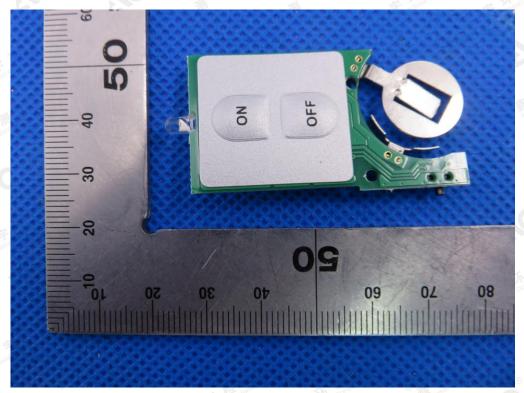
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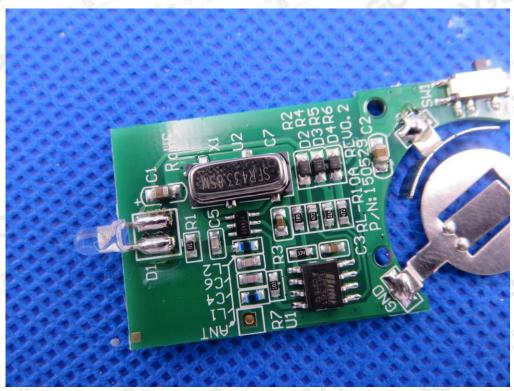
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# **INTERNAL VIEW OF EUT-2**



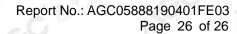
**INTERNAL VIEW OF EUT-3** 



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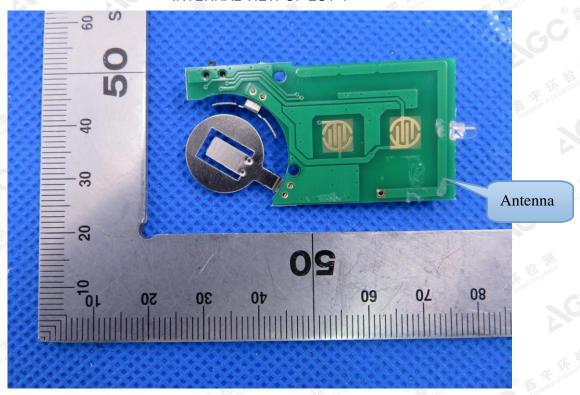
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# **INTERNAL VIEW OF EUT-4**



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