TEST REPORT

FCC ID: 2ACC6GR-302N

For

U-Fairy G.R. IOT Tech CO., Ltd

PIR sensor

Model No.	:	GR-302N
Prepared for	:	U-Fairy G.R. IOT Tech CO., Ltd
Address	:	Baihuali Industry District, Changping Town, Dongguan city, China
Prepared by	:	Shenzhen Alpha Product Testing Co., Ltd.
Address	:	Building B, East Area of Nanchang Second, Industrial Zone, Gushu 2nd Road, Bao'an, Shenzhen, China
Report No.	:	T1850859 01
Date of Receipt	:	July 17, 2015
Date of Test	:	July 18, 2015- July 29, 2015
Date of Report	:	July 30, 2015
Version Number	:	REV0

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Description **Page**

DECLARATION

Applicant	:	U-Fairy G.R. IOT Tech CO., Ltd
Manufacturer	:	U-Fairy G.R. IOT Tech CO., Ltd
Product	:	PIR sensor
(A) Model No.	:	GR-302N
(B) Trade Name	:	N/A
(C) Power supply	:	DC 4.8V from battery or DC 5V from adapter with AC 120V/60Hz

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.249: 2014, ANSI C63.4:2009

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....…..:	Peter Kang Test Engineer	Peter Kang …… ……
Approved by (name + signature)…....:	Simple Guan Project Manager	……
Date of issue…… ……..:		July 30, 2015

1 General Information

1.1 Description of Device (EUT)

EUT	:	PIR sensor
Model No.	:	GR-302N
Trade Name	:	N/A
Type of Antenna	:	PCB Antenna, Maximum Gain is 1.0dBi.
Operation Frequency	:	908.42MHz
Data rate	:	9.6/40/100kbps
Channel number	:	1
Modulation type	:	ASK
Power Supply	:	DC 4.8V from battery or DC 5V from adapter with AC 120V/60Hz
Fundamental field strength (PK)	:	79.50 dBuV
Hardware Version	:	REV:0.1
Software Version	:	REV.01.2014-10-30
Applicant	:	U-Fairy G.R. IOT Tech CO., Ltd
Address	:	Baihuali Industry District, Changping Town, Dongguan city, China
Manufacturer	:	U-Fairy G.R. IOT Tech CO., Ltd
Address	:	Baihuali Industry District, Changping Town, Dongguan city, China

1.2 Description of Test Facility

Shenzhen Alpha Product Testing Co., Ltd.

Building B, East Area of Nanchang Second, Industrial Zone, Gushu 2nd Road, Bao'an, Shenzhen, China

March 25, 2015 File on Federal Communication Commission
Registration Number: 203110

July 18, 2014 Certificated by IC
Registration Number: 12135A

2 Summary of Measurement

2.1 Summary of test result

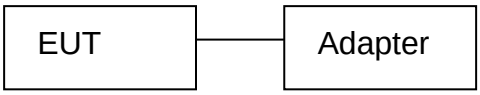
Description of Test Item	Standard	Results
Radiated Emission	Section 15.249&15.209	PASS
Occupied bandwidth	FCC Part 15: 15.215& FCC Part 15: 15.249	PASS
Band Edge Compliance	Section 15.249	N/A
Power Line Conducted Emissions	FCC Part 15: 15.207	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
Note: 1 N/A is not applicable.		

2.2 Test mode

Tested mode, channel information		
Mode	Channel	Frequency (MHz)
ASK	CH1	908.42
Note:1 For the relevant Conducted Measurement, the temporary antenna connector is used during the measurement. Antenna Connector Impedance: 50Ω, Cable Loss: 1.0 dB 2 Test for all Data rate 9.6/40/100kbps is performed and only the worst case of Data rate 9.6 kbps was recorded in the test report.		

Channel list			
CH1	908.42MHz	/	/
/	/	/	/
/	/	/	/
/	/	/	/
/	/	/	/
/	/	/	/
/	/	/	/
/	/	/	/

2.3 Block Diagram



2.4 Assistant equipment used for test

Description	:	Adapter
Manufacturer	:	JODEWAY
Model No.	:	JOD-S-050100A

2.5 Test Conditions

Temperature range	21-25℃
Humidity range	40-75%
Pressure range	86-106kPa

2.6 Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.70dB	
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.90 dB	Polarize: V
	3.92dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.26 dB	Polarize: H
	4.28 dB	Polarize: V
Uncertainty for conducted RF Power	0.16dB	

2.7 Test Equipment

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	CHENYU	9*6*6	N/A	2014.01.20	3Year
Spectrum analyzer	Agilent	E4407B	MY49510055	2015.01.19	1Year
Receiver	R&S	ESCI	101165	2015.01.19	1Year
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-438	2014.01.22	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2015.01.21	2Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2015.01.21	1Year
Cable	Resenberger	SUCOFLEX 104	MY6562/4	2015.01.19	1Year
Cable	Resenberger	SUCOFLEX 104	309972/4	2015.01.19	1Year
Cable	Resenberger	SUCOFLEX 104	329112/4	2015.01.19	1Year
Pre-amplifier	Agilent	8449B	3008A02664	2015.03.21	1Year
Pre-amplifier	HP	HP8347A	2834A00455	2015.03.21	1Year
LISN	Schwarzbeck	NSLK8126	8126466	2015.01.19	1Year
Pulse Limiter	Schwarzbeck	9516F	9618	2015.01.19	1Year

Note: Cable test frequency range:

Equipment	Manufacture	Model No.	Serial No.	Test Location	Frequency Rang
Cable	Resenberger	SUCOFLEX 104	MY6562/4	Conducted	150KHz-30MHz
Cable	Resenberger	SUCOFLEX 104	309972/4	Radiation	30MHz-2GHz
Cable	Resenberger	SUCOFLEX 104	329112/4	Radiation	1GHz-26.5GHz

3 Radiation Emission

3.1 Radiation Emission Limits(15.209&249)

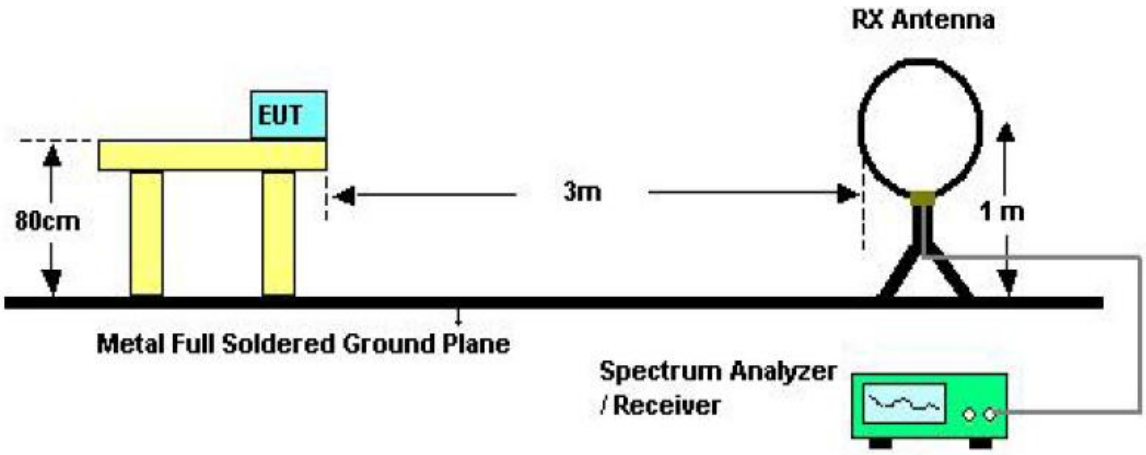
Frequency (MHz)	**Field Strength Limits at 3 metres (watts, e.i.r.p.)**		
	uV/m	dB uV/m	Measurement distance(m)
0.009-0.490	2400/F(kHz)	XX	300
0.490-1.705	24000/F(kHz)	XX	30
1.705-30	30	29.5	30
30~88	100(3nW)	40	3
88~216	150(6.8nW)	43.5	3
216~960	200(12nW)	46	3
Above960	500(75nW)	54	3
Carrier frequency		93.97(AV)	3
Carrier frequency		113.97(PK)	3

NOTE:

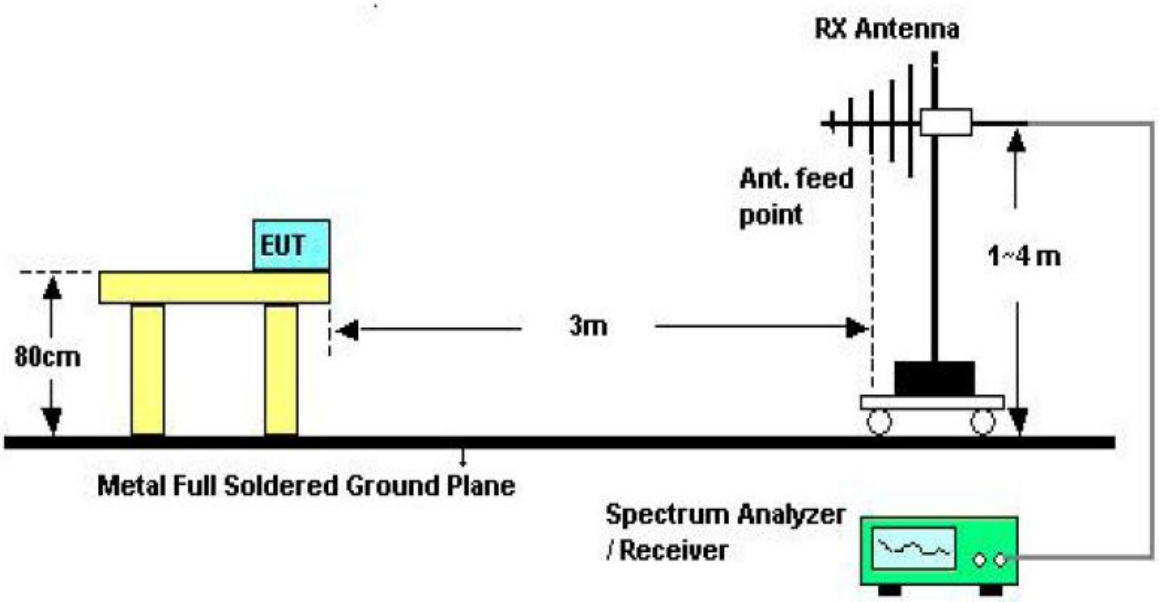
a) The tighter limit applies at the band edges.

b) Emission Level(dB uV/m)=20log Emission Level(Uv/m)

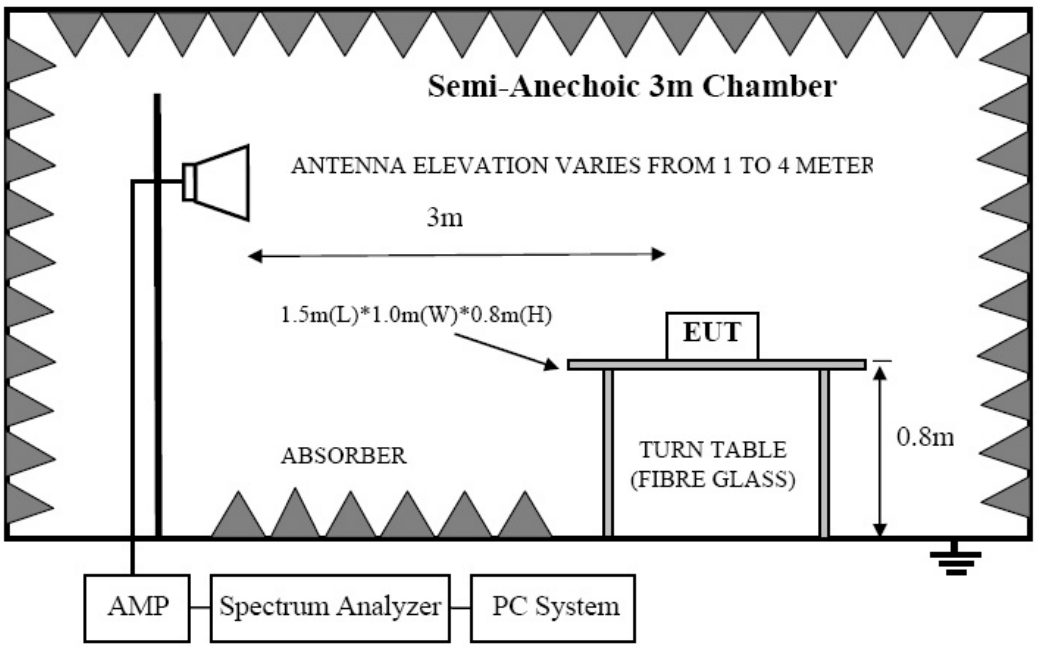
3.2 Test Setup



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

3.3 Test Procedure

(1)EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
(2) For the actual test configuration, please see the test setup photo.
(3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
(a) Change work frequency or channel of device if practicable.
(b) Change modulation type of device if practicable.
(4) Spectrum frequency from 9KHz to 12GHz (tenth harmonic of fundamental frequency) was investigated
(5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 2009 on Radiated Emission test.
(6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure.

(7) For the radiated emission test above 1GHz:

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

3.4 Test Equipment Setting For emission test.

9KHz~150KHz	RBW 200Hz	VBW 1KHz
150KHz~30MHz	RBW 9KHz	VBW 30KHz
30MHZ~1GHz	RBW 120KHz	VBW 300KHz
Above 1GHz	RBW 1MHz	VBW 3MHz

3.5 Test Condition

Continual Transmitting in maximum power.

3.6 Test Result

PASS.

We have scanned the 10th harmonic from 9KHz to the EUT.

Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: **PASS**

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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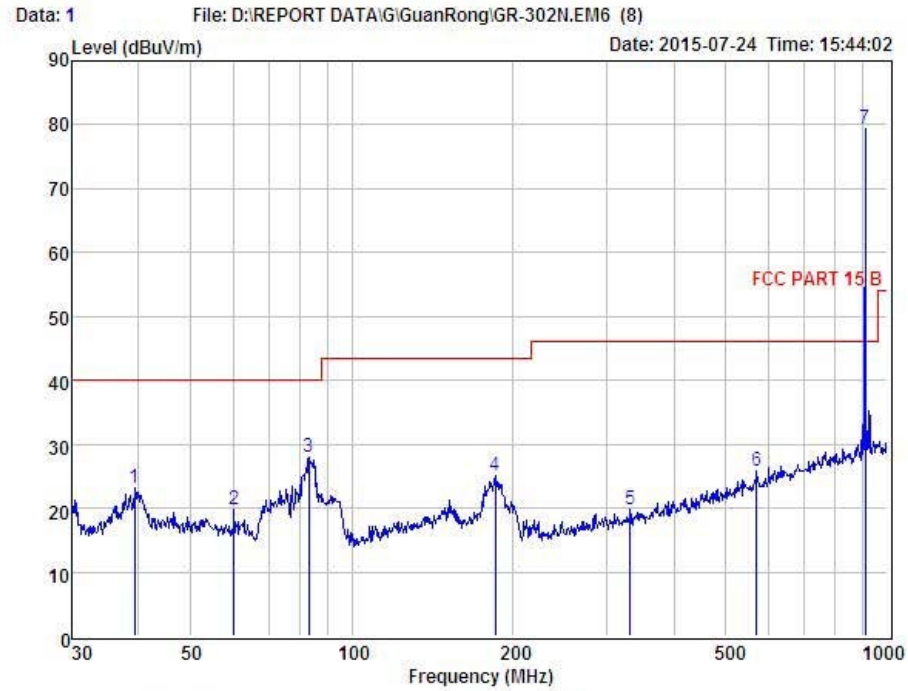

Condition : FCC PART 15 B 3m POL: VERTICAL
EUT : PIR sensor
Model No : GR-302N
Test Mode : TX
Power : DC 5V From Adapter With AC 120V/60Hz
Test Engineer : Peter
Remark :
Temp : 24.2℃
Hum : 54%

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	39.30	40.81	14.07	31.89	0.17	23.16	40.00	-16.84	Peak
2	60.28	38.59	12.75	31.75	0.24	19.83	40.00	-20.17	Peak
3	83.23	49.84	9.35	31.53	0.23	27.89	40.00	-12.11	Peak
4	185.14	44.43	11.20	31.00	0.53	25.16	43.50	-18.34	Peak
5	331.35	35.88	13.52	30.53	0.81	19.68	46.00	-26.32	Peak
6	570.61	36.03	17.74	29.45	1.41	25.73	46.00	-20.27	Peak
7	908.42	85.35	21.77	29.22	1.51	79.41			Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

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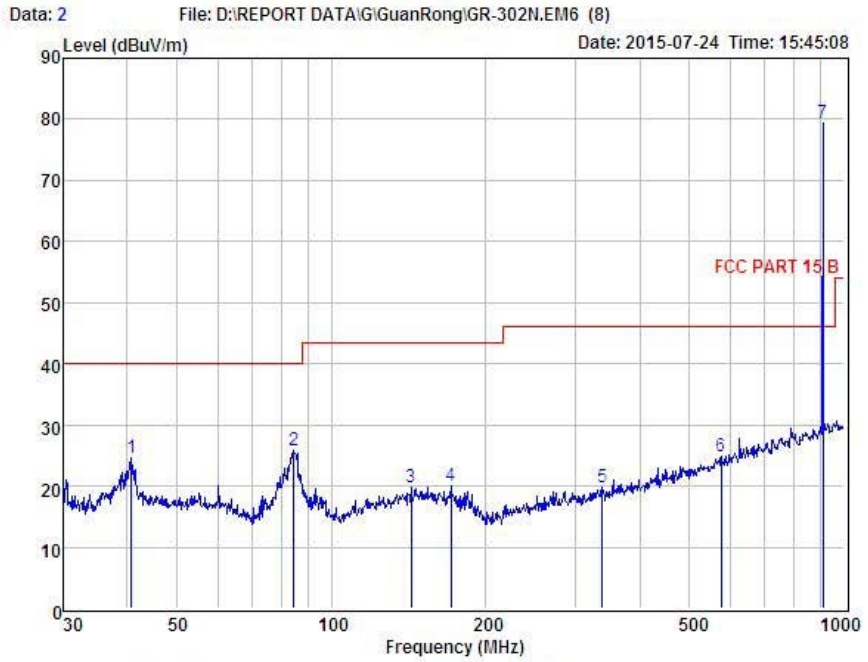


```
Condition      : FCC PART 15 B        3m       POL: HORIZONTAL
EUT            : PIR sensor
Model No       : GR-302N
Test Mode      : TX
Power          : DC 5V From Adapter With AC 120V/60Hz
Test Engineer  : Peter
Remark         :
Temp           : 24.2℃
Hum            : 54%
```

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	40.70	42.18	14.07	31.87	0.18	24.56	40.00	-15.44	Peak
2	84.41	47.74	9.38	31.53	0.26	25.85	40.00	-14.15	Peak
3	143.33	36.88	13.64	31.21	0.38	19.69	43.50	-23.81	Peak
4	171.39	37.40	13.18	31.09	0.63	20.12	43.50	-23.38	Peak
5	337.22	35.91	13.61	30.51	0.71	19.72	46.00	-26.28	Peak
6	576.64	35.34	17.85	29.44	1.17	24.92	46.00	-21.08	Peak
7	908.42	85.44	21.77	29.22	1.51	79.50			Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

Notes: Above is below 1GHz test data.

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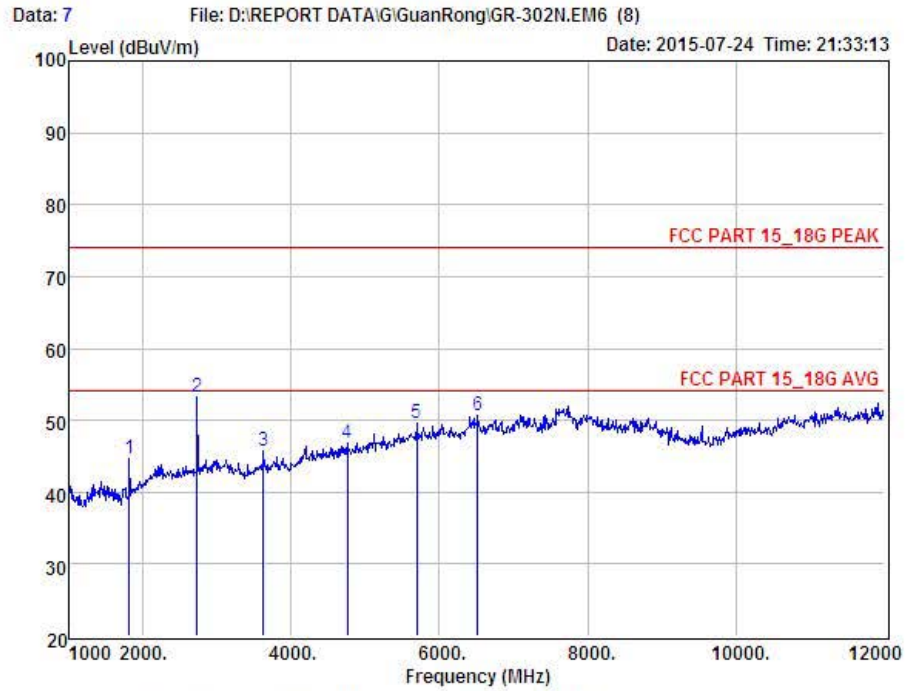

Condition : FCC PART 15_18G PEAK 3m POL: HORIZONTAL
EUT : PIR sensor
Model No : GR-302N
Test Mode : TX
Power : DC 5V From Adapter With AC 120V/60Hz
Test Engineer : Peter
Remark :
Temp : 24.2℃
Hum : 54%

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
	11814.00	51.05	25.03	34.85	3.45	44.68	74.00	-29.32	Peak
	22727.00	56.13	27.89	34.98	4.21	53.25	74.00	-20.75	Peak
	33629.00	46.74	28.83	34.87	4.94	45.64	74.00	-28.36	Peak
	44762.00	44.26	31.18	34.25	5.67	46.86	74.00	-27.14	Peak
	55697.00	44.69	32.20	33.56	6.24	49.57	74.00	-24.43	Peak
	66511.00	43.34	34.26	33.65	6.69	50.64	74.00	-23.36	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

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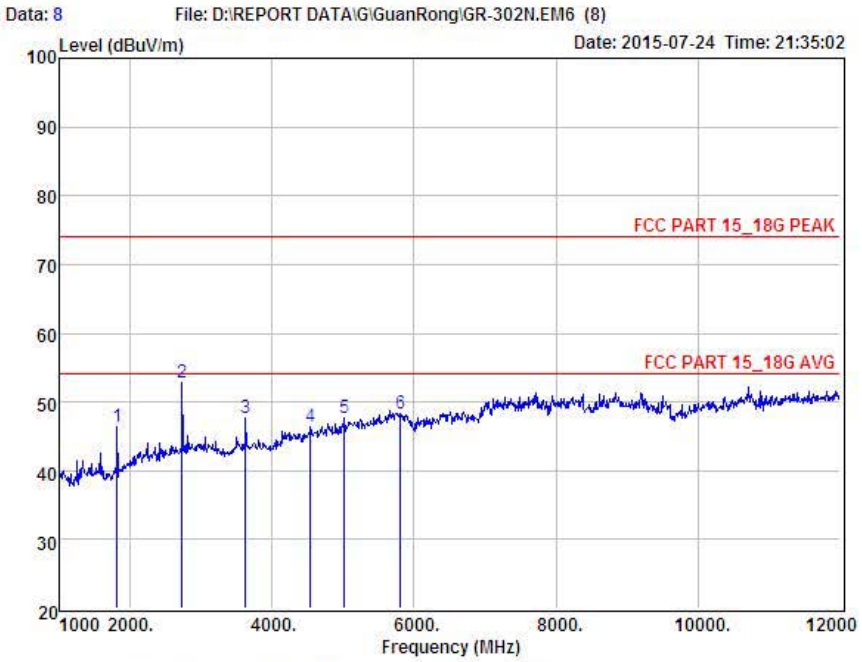


Condition : FCC PART 15_18G PEAK 3m POL: VERTICAL
EUT : PIR sensor
Model No : GR-302N
Test Mode : TX
Power : DC 5V From Adapter With AC 120V/60Hz
Test Engineer : Peter
Remark :
Temp : 24.2℃
Hum : 54%

Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	11814.00	52.80	25.03	34.85	3.45	46.43	74.00	-27.57	Peak
2	22727.00	55.69	27.89	34.98	4.21	52.81	74.00	-21.19	Peak
3	33629.00	48.77	28.83	34.87	4.94	47.67	74.00	-26.33	Peak
4	44542.00	44.67	30.68	34.43	5.53	46.45	74.00	-27.55	Peak
5	55015.00	44.33	31.56	34.02	5.83	47.70	74.00	-26.30	Peak
6	65807.00	43.17	32.43	33.62	6.30	48.28	74.00	-25.72	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

Notes: Above is Above 1GHz test data

Radiated Emissions Result of Inside band (908.42MHz)

EUT	PIR sensor	**Model Name**	GR-302N
Temperature	25°C	**Relative Humidity**	56%
Pressure	960hPa	**Test voltage**	AC 120V/60Hz
Test Mode	TX	**Antenna polarization**	Horizontal/Vertical

Channel (908.42MHz)									
Fre. MHz	**Plority H/V**	**Reading dBuV**	**Antenna Factor dB**	**Cable Loss dB**	**Amplifier Gain dB**	**Correct Factor dB**	**Measure Result dBuV/m**	**Limit dBuV/m**	**Margin dB**
908.42	H	85.44（PK）	21.77	1.51	29.22	-5.94	79.50	113.97（PK）	-34.47
--	H	--	--	--	--	--	--	--	--
908.42	V	85.35（PK）	21.77	1.51	29.22	-5.94	79.41	113.97（PK）	-34.56
--	V	--	--	--	--	--	--	--	--

Notes: 1 --Means other frequency and mode comply with standard requirements and at least have 20dB margin.
Correct Factor=Cable Loss+Antenna Factor-Amplifier Gain
Measurement Result=Reading + Correct Factor
Margin=Measurement Result-Limit

2 –Spectrum setting:
a. Peak setting 30MHz-1GHz, RBW=100KHz,VBW=300KHz.

3- PK measure result values is less than the AVG limit values, so AV measure result values test not applicable.

4 POWER LINE CONDUCTED EMISSION

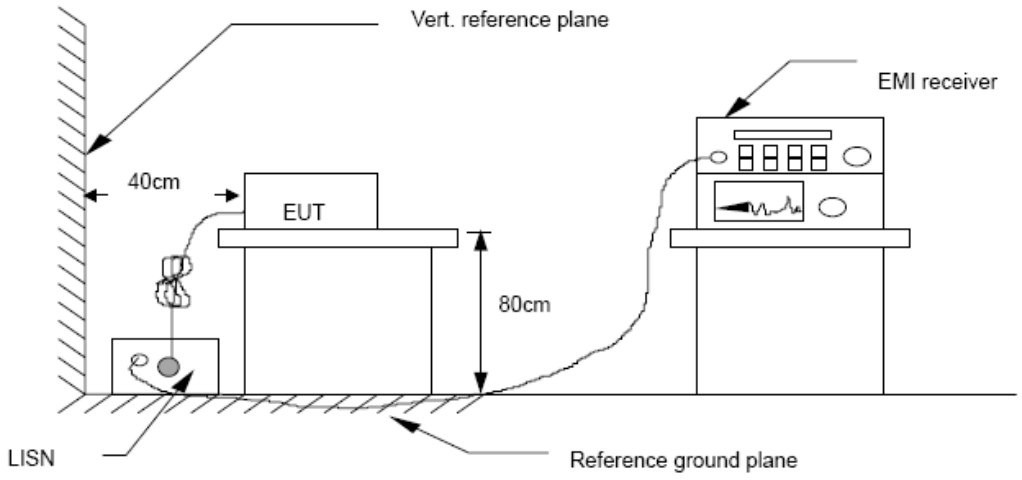
4.1 Conducted Emission Limits(15.207)

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

3.The limit decreases in line with the logarithm of the frequency in the rang of 0.15 to 0.50 MHz.

4.2 Test Setup



4.3 Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4-2009 on Conducted Emission Measurement.
The bandwidth of test receiver (R & S ESCS30) is set at 9 kHz.

4.4 Test Results

PASS.

Detailed information please see the following page.

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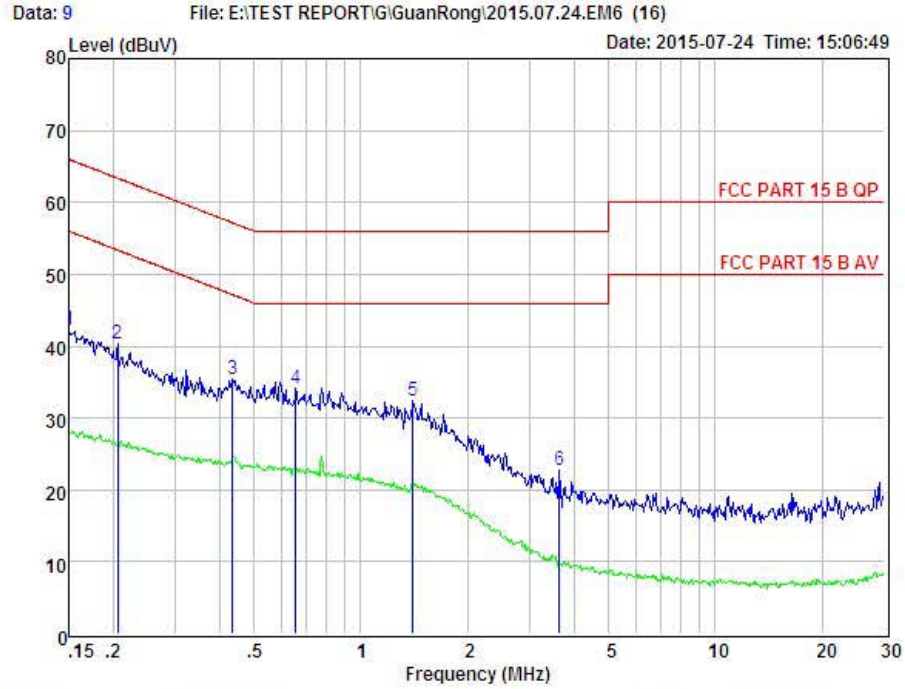
Website: http://www.cessz.com Email:Service@cessz.com



Condition : FCC PART 15 B QP POL: LINE Temp:20.1 ℃ Hum:45 %
EUT : PIR sensor
Model No : GR-302N
Test Mode : TX mode
Power : DC 5V from adapter with AC 120V/60Hz
Test Engineer: Peter
Remark :

Item	Freq	Read	LISN Factor	Preamp Factor	Cable Lose	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.150	32.35	0.03	-9.72	0.10	42.20	66.00	-23.80	Peak
2	0.206	30.49	0.03	-9.72	0.10	40.34	63.36	-23.02	Peak
3	0.435	25.59	0.03	-9.72	0.10	35.44	57.15	-21.71	Peak
4	0.654	24.34	0.04	-9.72	0.10	34.20	56.00	-21.80	Peak
5	1.403	22.52	0.05	-9.71	0.10	32.38	56.00	-23.62	Peak
6	3.642	12.74	0.08	-9.69	0.12	22.63	56.00	-33.37	Peak

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

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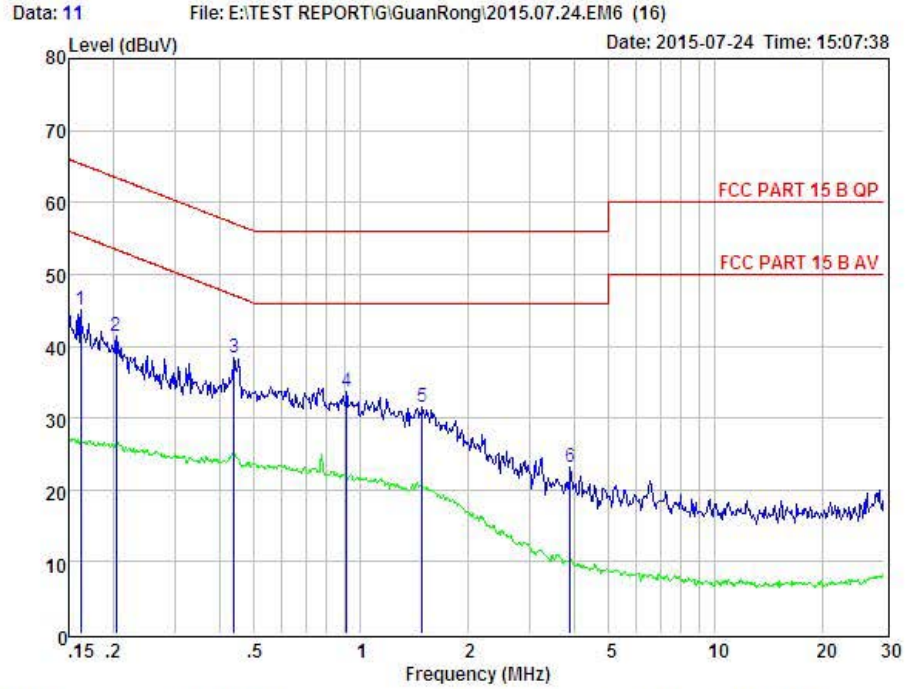


Condition : FCC PART 15 B QP POL: NEUTRAL Temp:20.1 ℃ Hum:45 %
EUT : PIR sensor
Model No : GR-302N
Test Mode : TX mode
Power : DC 5V from adapter with AC 120V/60Hz
Test Engineer: Peter
Remark :

Item	Freq	Read	LISN Factor	Preamp Factor	Cable Lose	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.162	35.20	0.03	-9.72	0.10	45.05	65.34	-20.29	Peak
2	0.204	31.63	0.03	-9.72	0.10	41.48	63.45	-21.97	Peak
3	0.440	28.63	0.03	-9.72	0.10	38.48	57.07	-18.59	Peak
4	0.914	23.87	0.04	-9.71	0.10	33.72	56.00	-22.28	Peak
5	1.487	21.77	0.05	-9.71	0.10	31.63	56.00	-24.37	Peak
6	3.901	13.35	0.08	-9.69	0.12	23.24	56.00	-32.76	Peak

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

5 Occupied bandwidth

5.1 Test limit

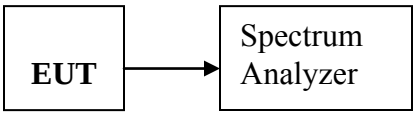
Please refer section15.249

5.2 Method of measurement

a)The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

b)The test receiver RBW set 30KHz,VBW set 100KHz,Sweep time set auto.

5.3 Test Setup

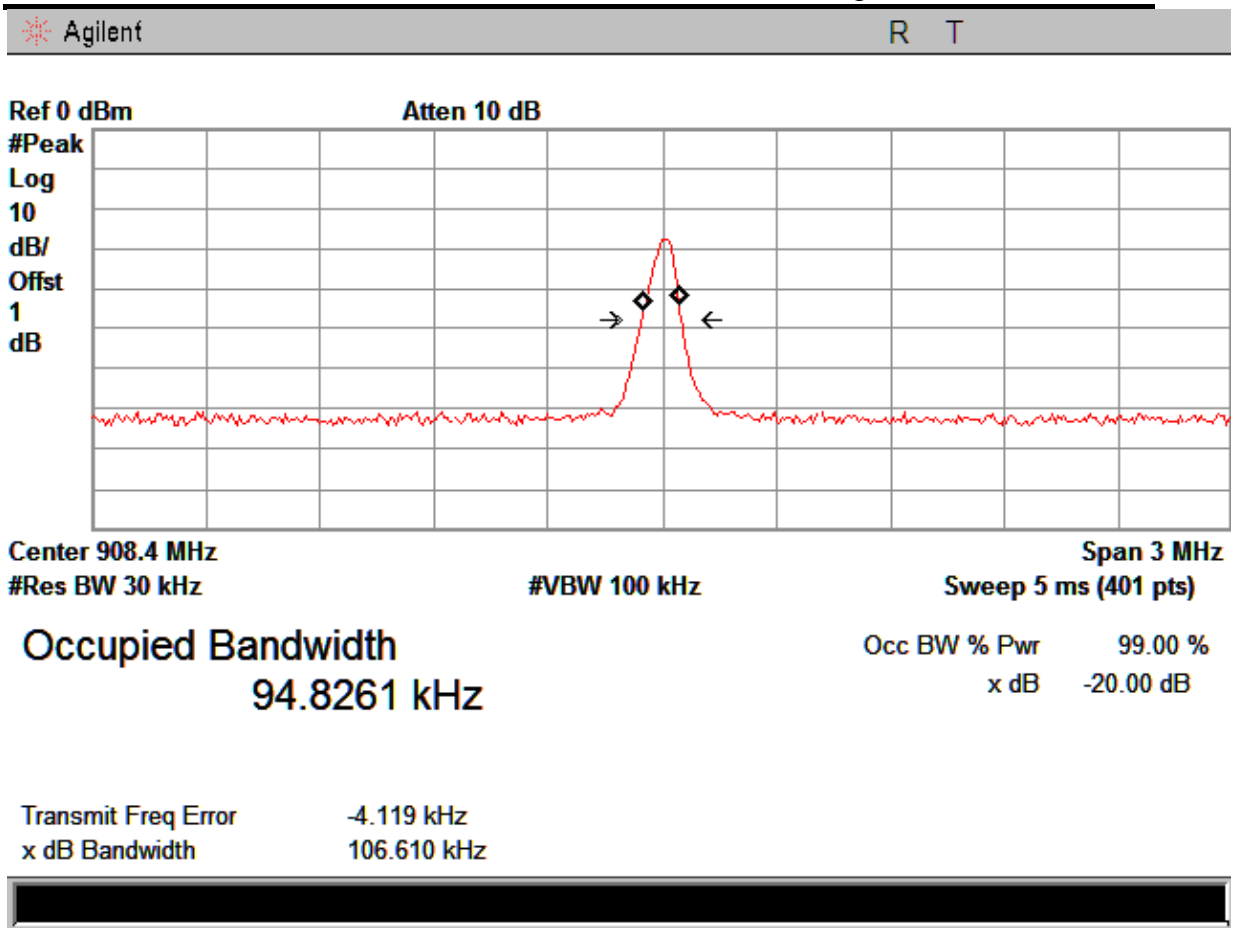


5.4 Test Results

PASS.

Detailed information please see the following page.

Frequency	Test Result	Limit	Result
908.42MHz	106.61KHz	/	Pass


Agilent
R T
Ref 0 dBm
Atten 10 dB
#Peak
Log
10
dB/
Offst
1
dB
Center 908.4 MHz
Span 3 MHz
#Res BW 30 kHz
#VBW 100 kHz
Sweep 5 ms (401 pts)
Occupied Bandwidth
94.8261 kHz
Occ BW % Pwr 99.00 %
x dB -20.00 dB
Transmit Freq Error -4.119 kHz
x dB Bandwidth 106.610 kHz

6 Antenna Requirement

6.1 Standard Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

6.2 Antenna Connected Construction

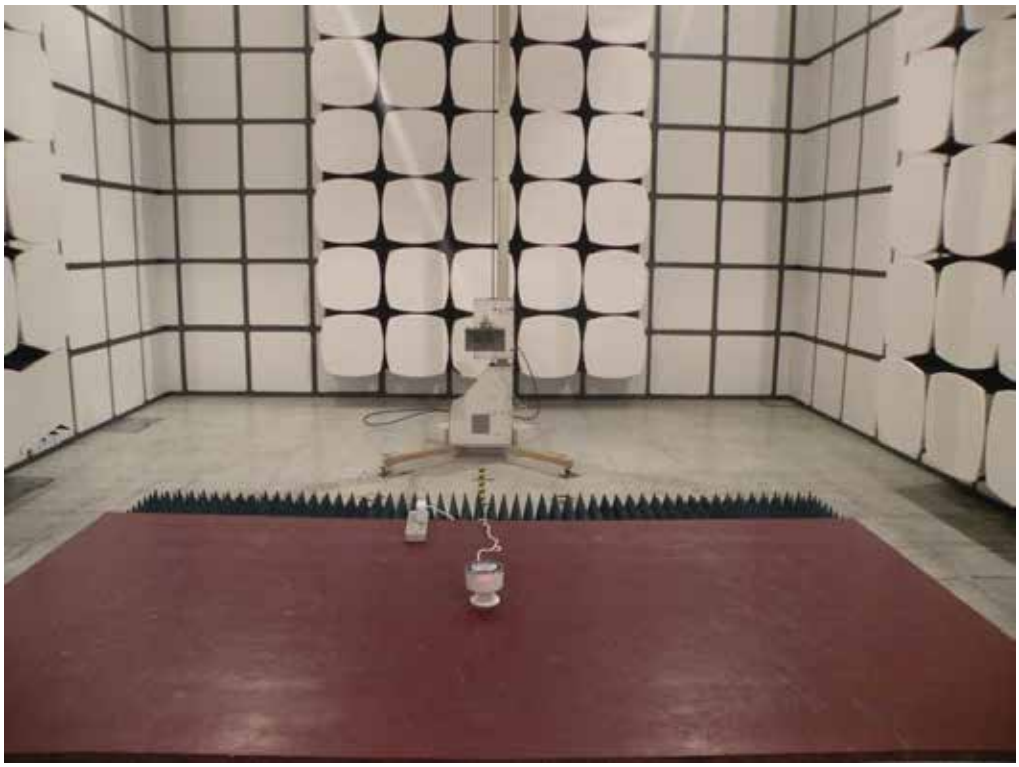
The directional gains of antenna used for transmitting is 1 dBi, and the antenna is de- signed with no consideration of replacement. Please see EUT photo for details.

6.3 Result

The EUT antenna is PCB Antenna. It comply with the standard requirement.

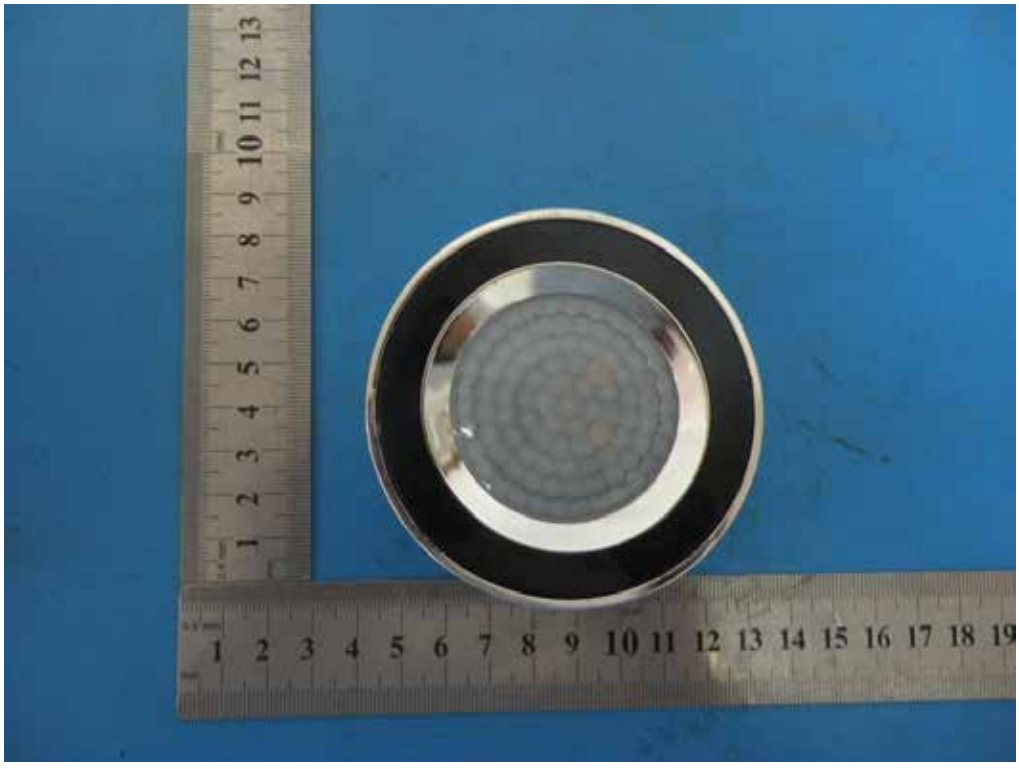
7 Photographs of Test Setup

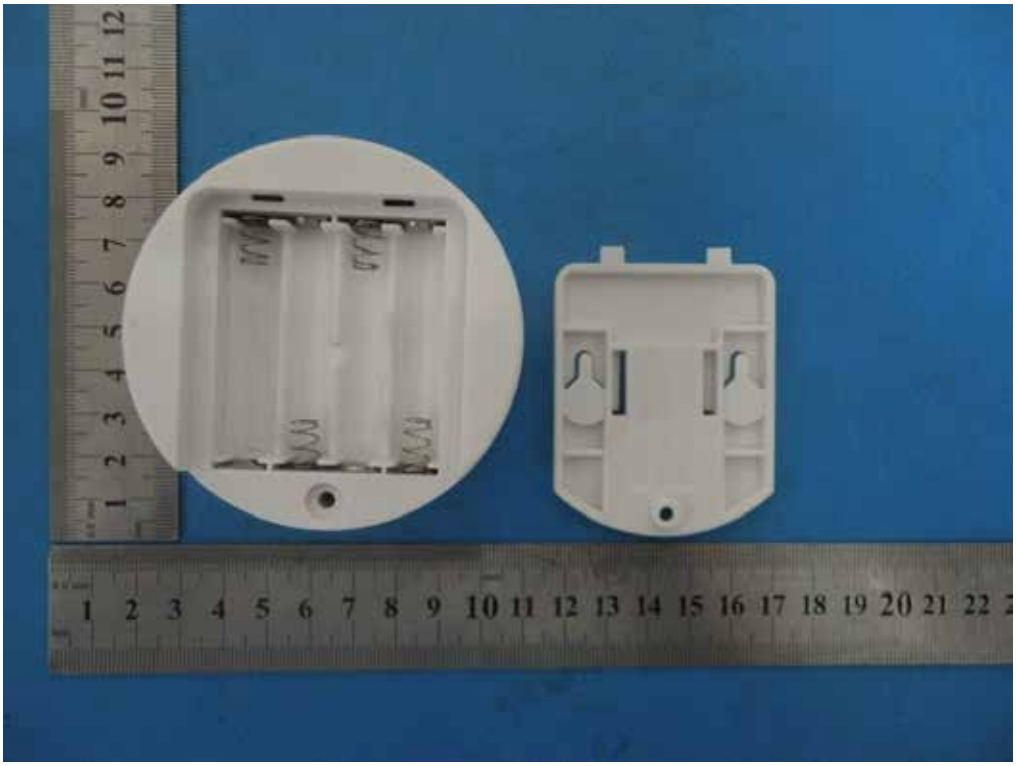
Photographs-Radiated Emission Test Setup in Chamber

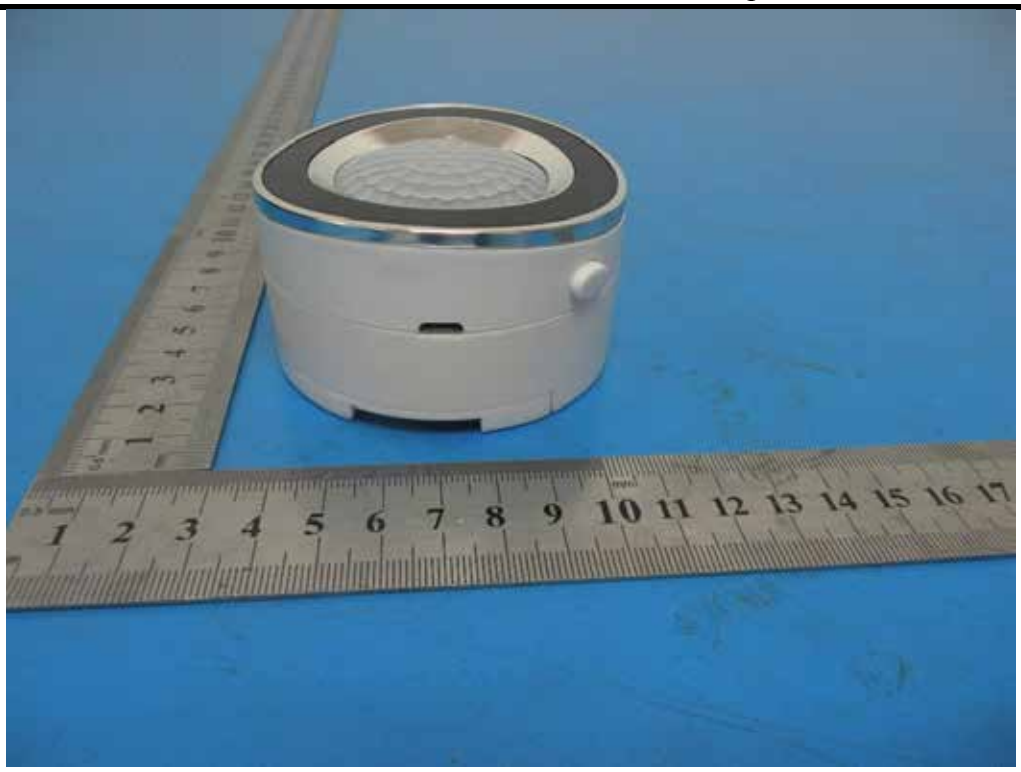


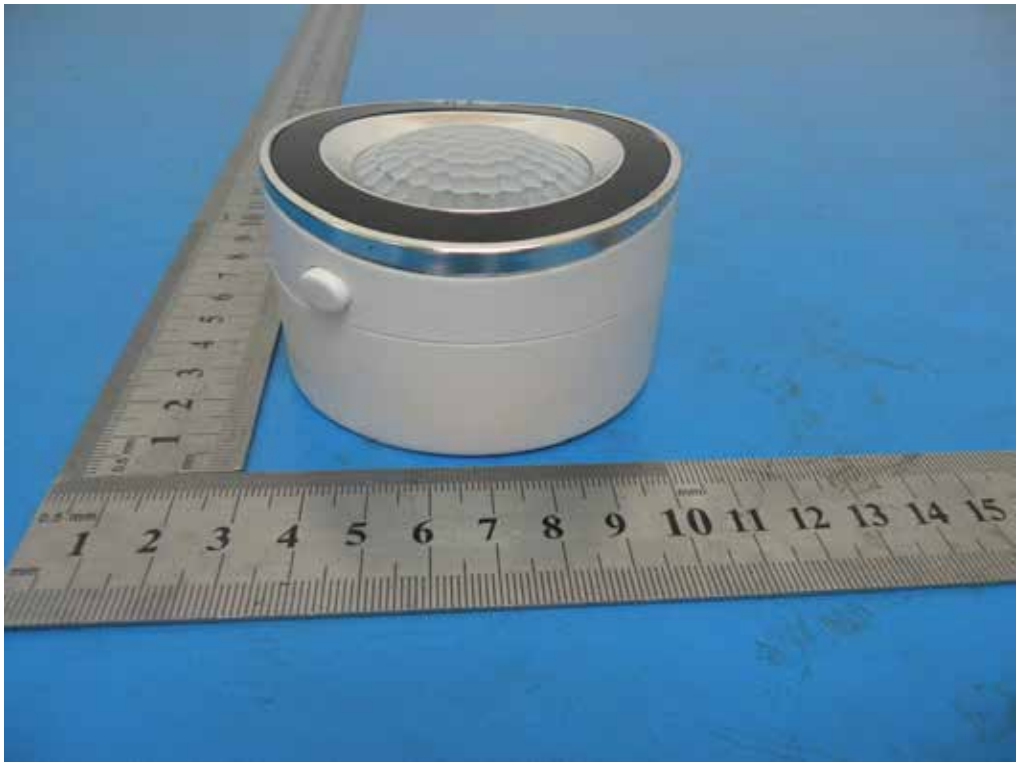
Photographs-Conducted Emission Test Setup

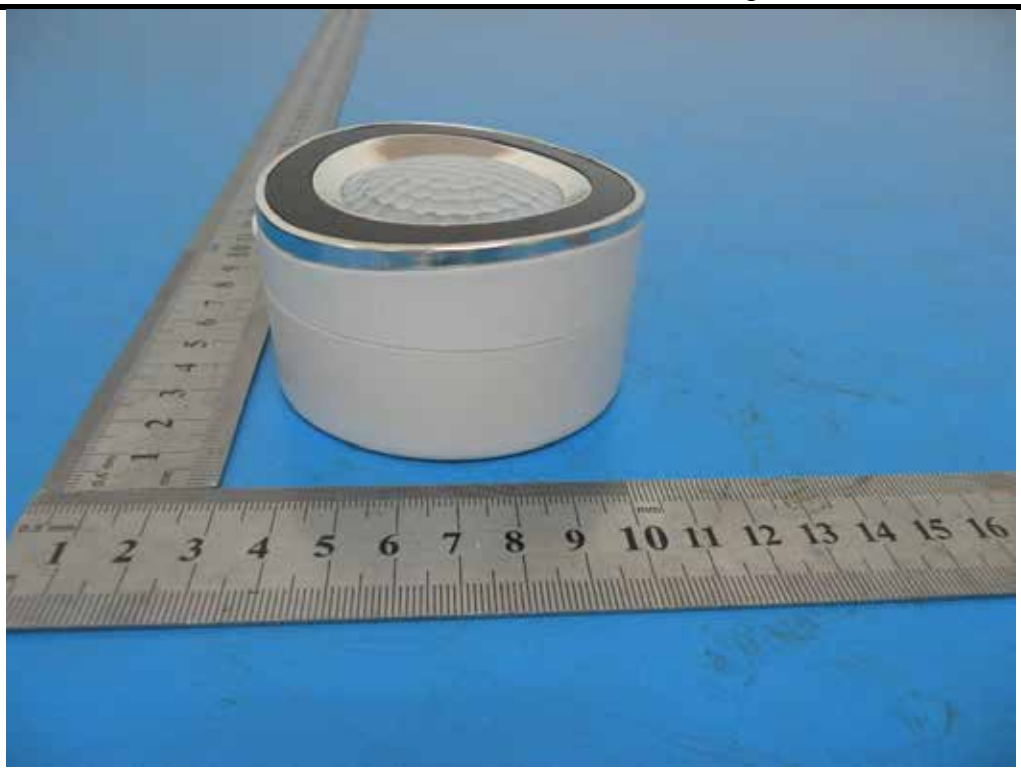
8 Photographs of EUT

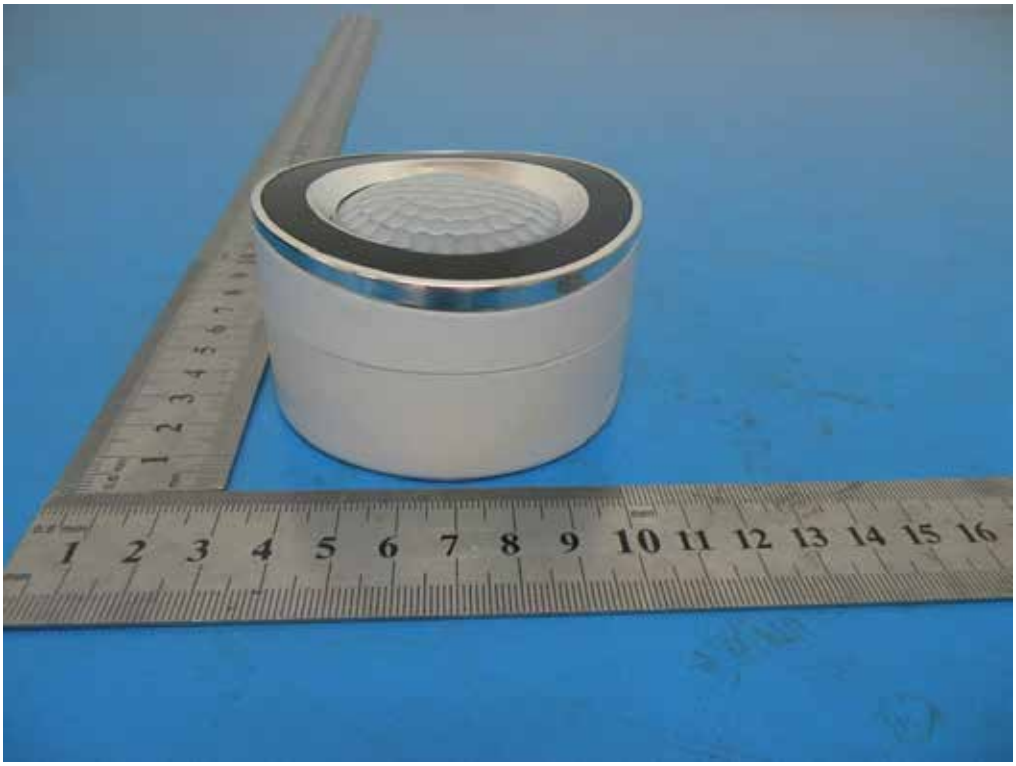










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FC
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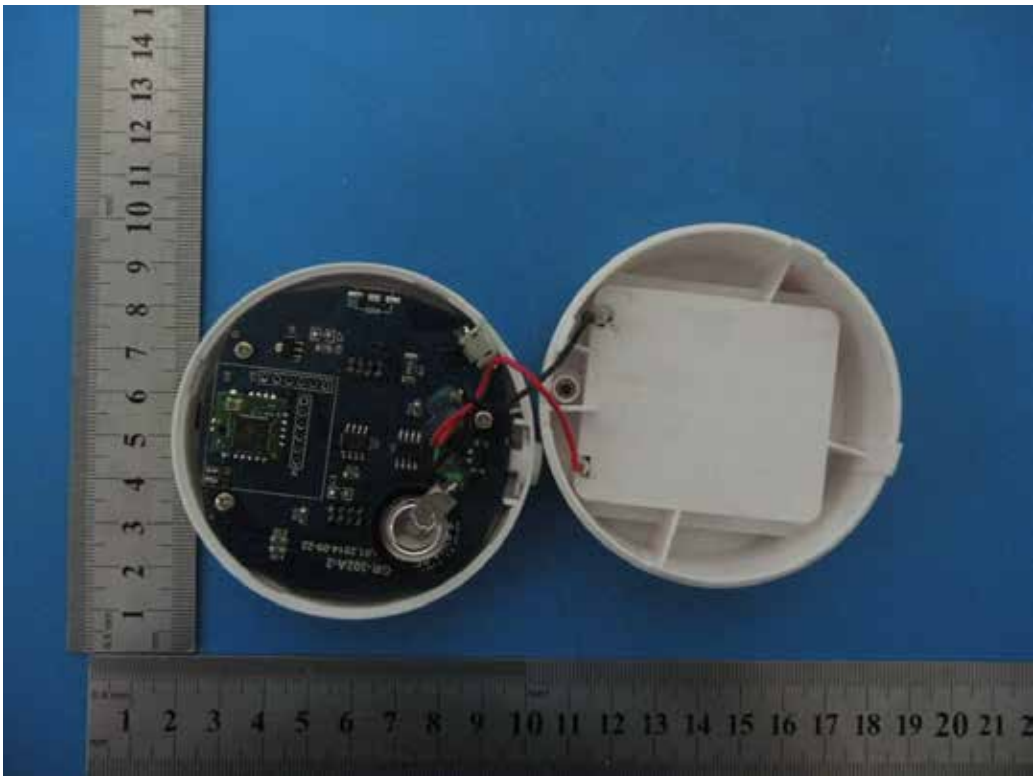
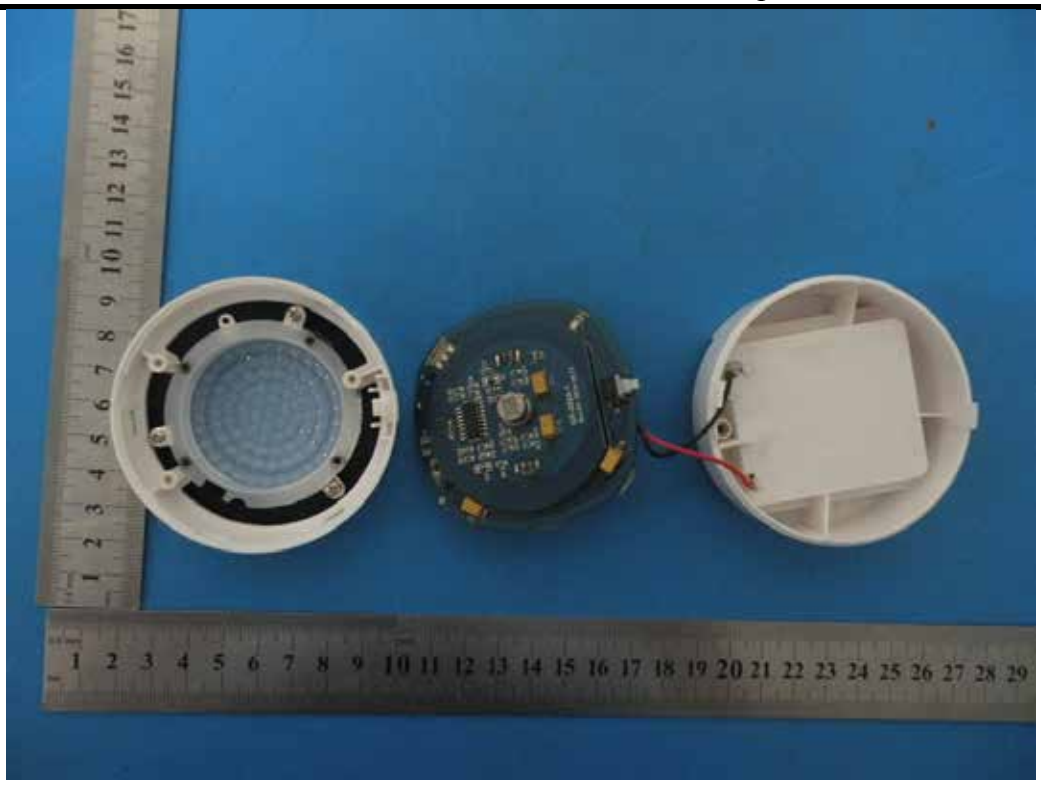
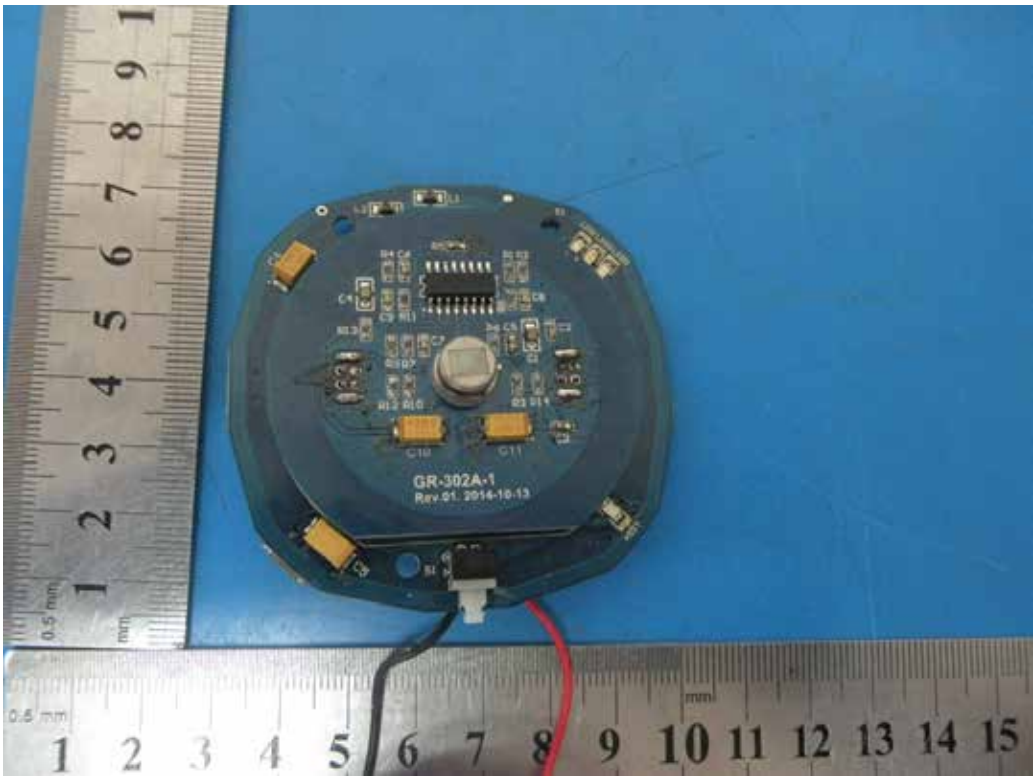
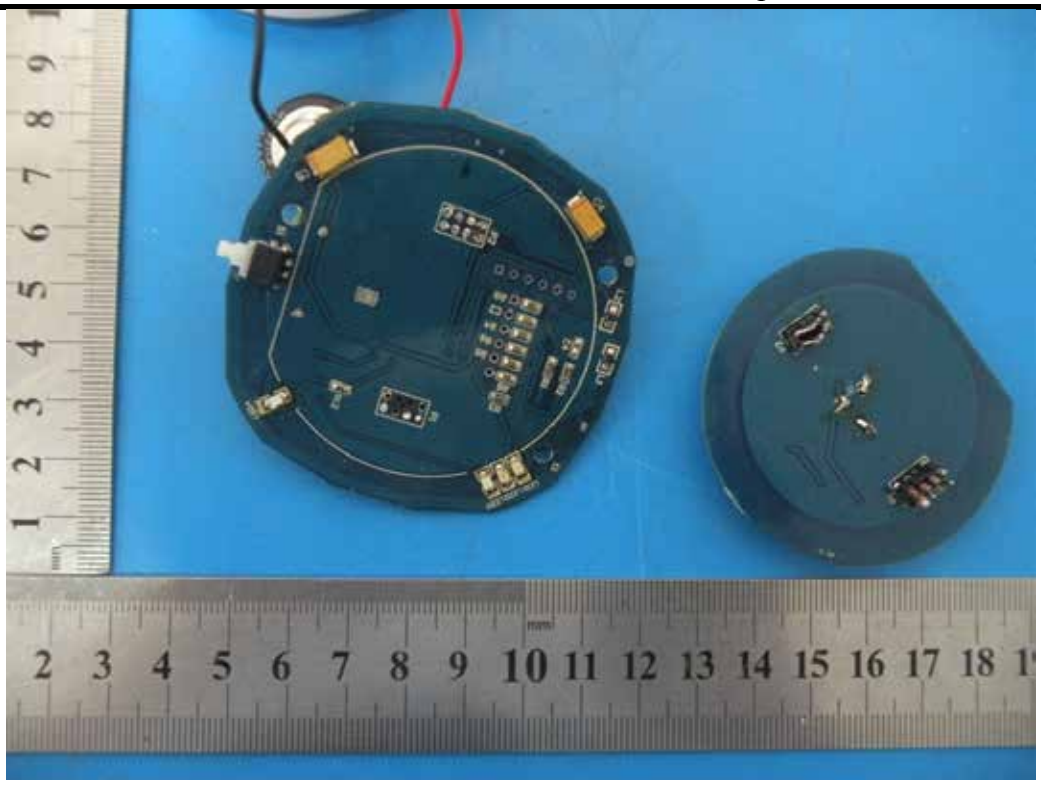
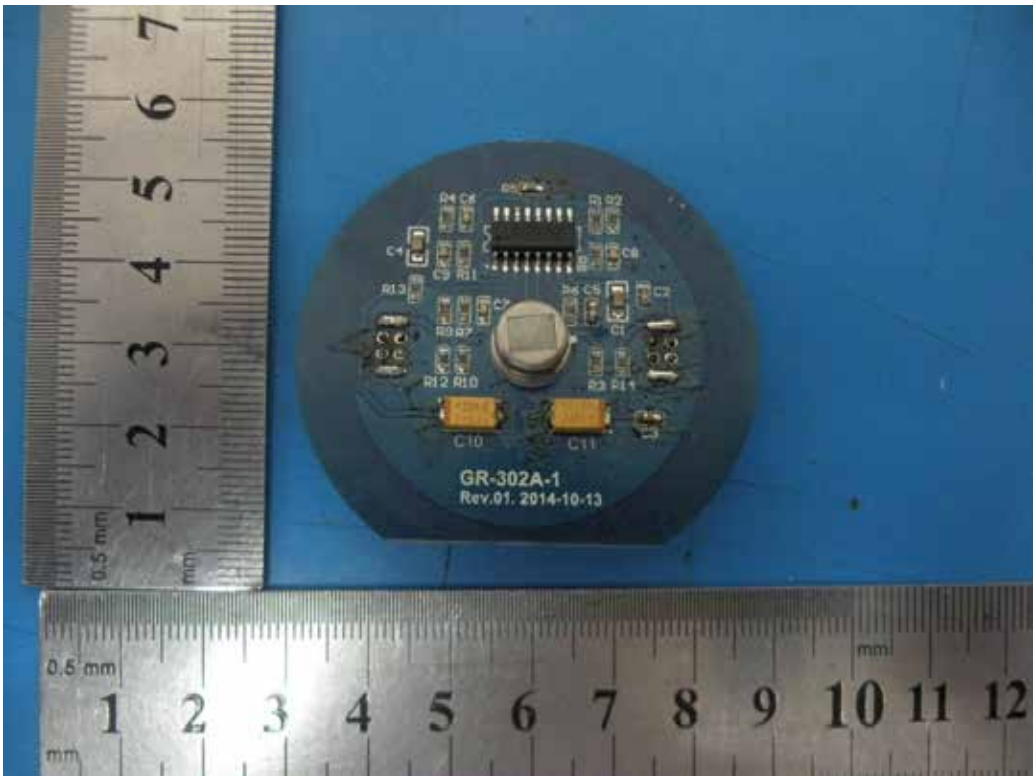
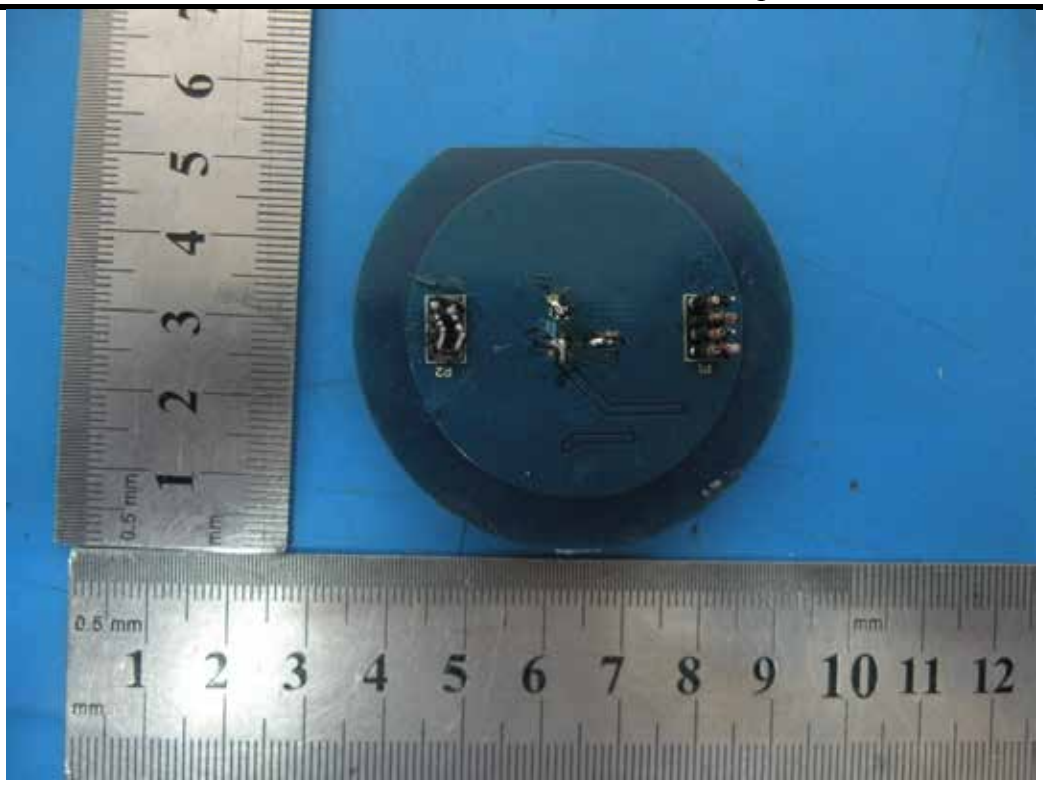


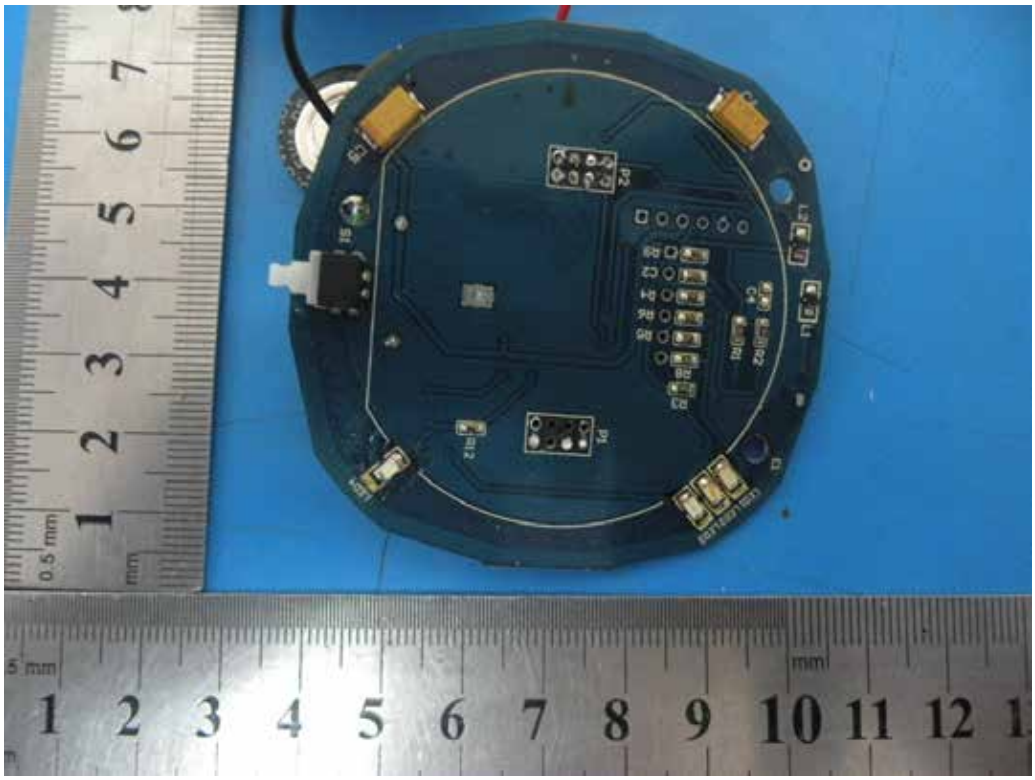


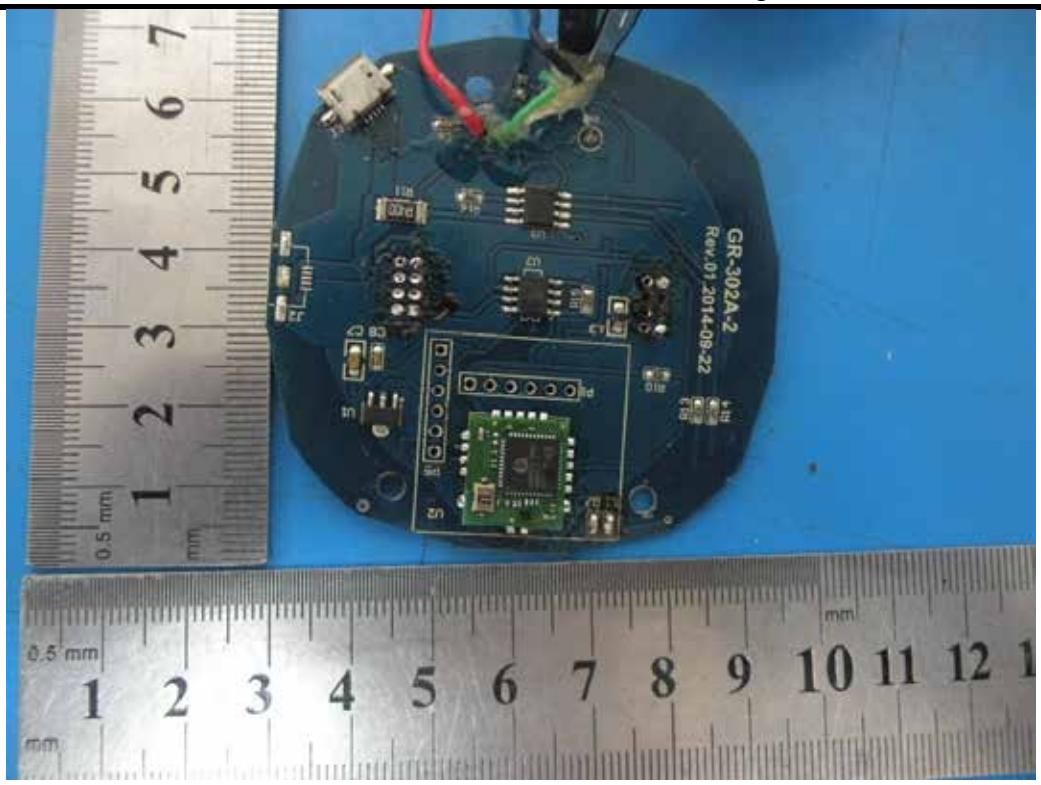

GR-302A-1
Rev.01. 2014-10-13




GR-302A-1
Rev.01. 2014-10-13







-------END OF REPORT-------