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# FCC Test Report

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Report No.: AGC11517210101FE03

**FCC ID** : 2AX5I-DR-0571  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : 2.4G induction remote control  
**BRAND NAME** : **ECO|FLUSH**  
**MODEL NAME** : DR-0571  
**APPLICANT** : ECO(XIAMEN) TECHNOLOGY INC.  
**DATE OF ISSUE** : Jan. 23, 2021  
**STANDARD(S)** : FCC Part 15 Rules  
**TEST PROCEDURE(S)**  
**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. 23, 2021	Valid	Initial Release

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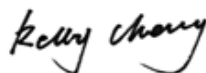
## 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	ECO(XIAMEN) TECHNOLOGY INC.
<b>Address</b>	No.2 Xiafei East Road, Haicang District , Xiamen 361028
<b>Manufacturer</b>	ECO(XIAMEN) TECHNOLOGY INC.
<b>Address</b>	No.2 Xiafei East Road, Haicang District , Xiamen 361028
<b>Factory</b>	Wuxi denvel intelligent electronic incorporated
<b>Address</b>	Building A,No.8 Lianhe Road, Hudai Industrial park, Wuxi City
<b>Product Designation</b>	2.4G induction remote control
<b>Brand Name</b>	<b>ECO FLUSH</b>
<b>Test Model</b>	DR-0571
<b>Date of test</b>	Jan. 19, 2021 to Jan. 23, 2021
<b>Deviation</b>	No any deviation from the test method
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	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



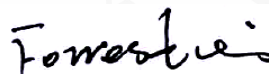
Kelly Cheng  
(Project Engineer) Jan. 23, 2021

Reviewed By



Max Zhang  
(Reviewer) Jan. 23, 2021

Approved By



Forrest Lei  
(Authorized Officer) Jan. 23, 2021

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2421MHz
<b>Maximum field strength</b>	77.09dBuV/m(Average)@3m
<b>Modulation</b>	GFSK
<b>Number of channels</b>	1
<b>Antenna Gain</b>	0dBi
<b>Antenna Designation</b>	Internal Antenna (Met 15.203 Antenna requirement)
<b>Hardware Version</b>	V1.6
<b>Software Version</b>	V1.3
<b>Power Supply</b>	DC 4.5V by battery

### 2.2. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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### 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,  $U_c = \pm 3.1$  dB
- Uncertainty of Radiated Emission below 1GHz,  $U_c = \pm 4.0$  dB
- Uncertainty of Radiated Emission above 1GHz,  $U_c = \pm 4.8$  dB

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#### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	TX mode
<p>Note:</p> <ol style="list-style-type: none"> <li>1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.</li> <li>2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.</li> <li>3. The EUT enters test modes by pressing keys of EUT.</li> <li>4. For battery operated equipment, the equipment tests are performed using a new battery.</li> </ol>	

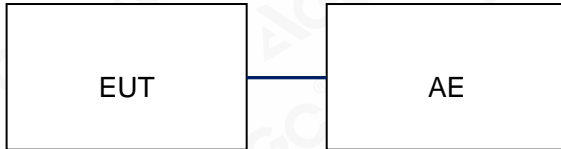
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## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Configure:



### 5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	2.4G induction remote control	DR-0571	2AX5I-DR-0571	EUT

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249&15.209	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	Not applicable

Note: The conducted emission tests at AC port are not required for devices which only employ battery for operation.

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## 6. TEST FACILITY

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

## TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00154520	Oct. 26, 2019	Oct. 25, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2021
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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## 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	
		$\mu$ V/m	dB( $\mu$ 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( $\mu$ V)/m (Peak) 54.0 dB( $\mu$ V)/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

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.

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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 2.4MHz/ VBW 8MHz for Peak, RBW 2.4MHz/3MHz 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

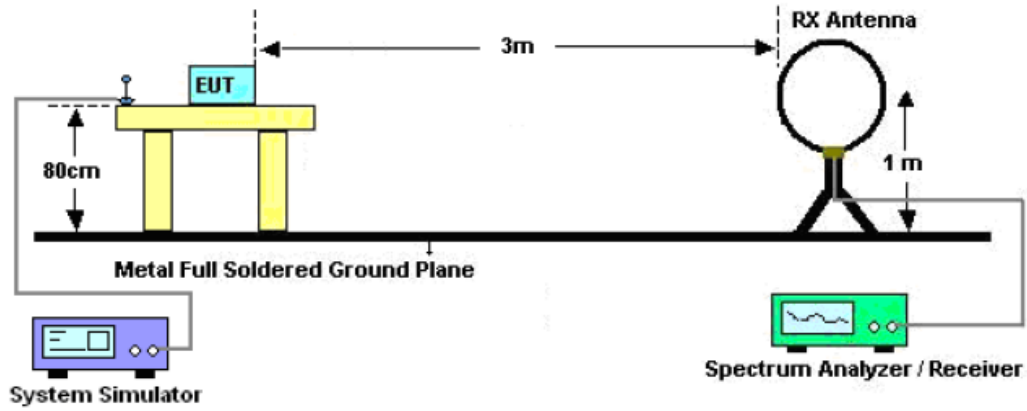
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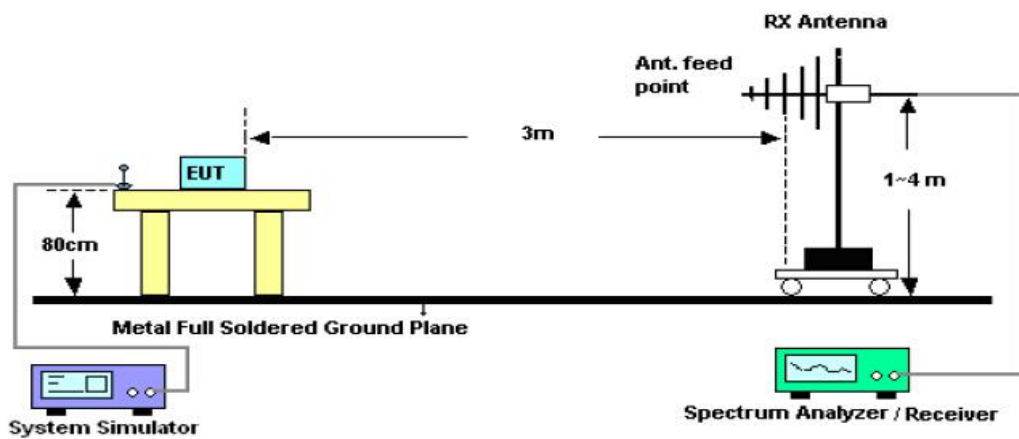


### 7.3. TEST SETUP

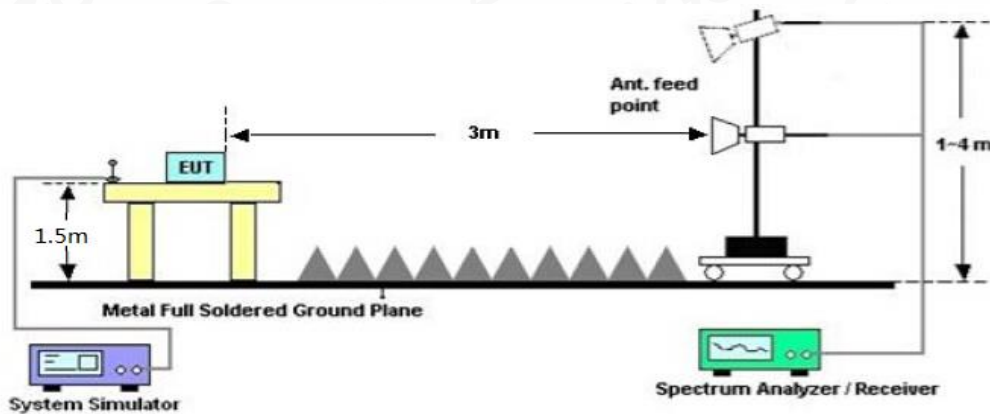
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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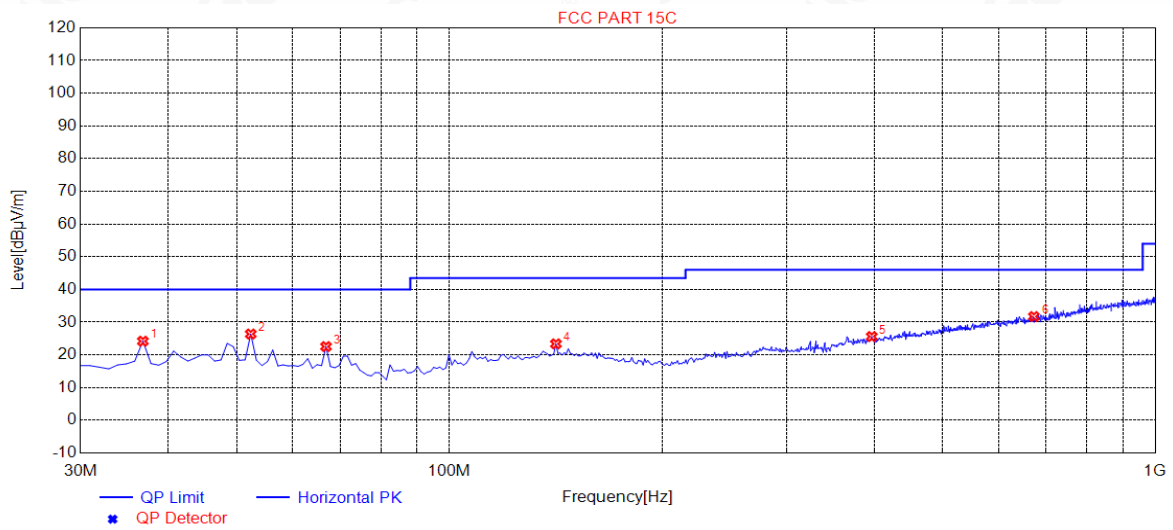
### 7.4. TEST RESULT

#### RADIATED EMISSION BELOW 30MHZ

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

#### RADIATED EMISSION 30MHZ- 1GHZ

EUT	2.4G induction remote control	Model Name	DR-0571
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 4.5V
Test Mode	Mode 1	Polarization	Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7900	24.20	11.16	40.00	15.80	100	72	Horizontal
2	52.3100	26.39	11.49	40.00	13.61	200	160	Horizontal
3	66.8600	22.55	9.76	40.00	17.45	100	49	Horizontal
4	141.5500	23.38	14.88	43.50	20.12	100	246	Horizontal
5	396.6600	25.61	19.65	46.00	20.39	100	115	Horizontal
6	673.1100	31.74	25.53	46.00	14.26	100	286	Horizontal

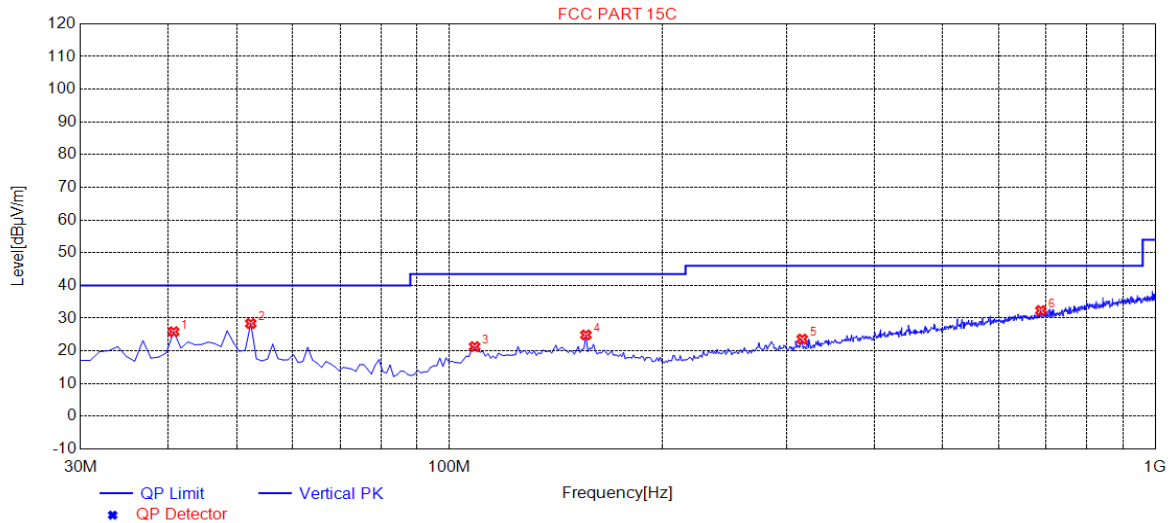
**RESULT: PASS**

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EUT	2.4G induction remote control	Model Name	DR-0571
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 4.5V
Test Mode	Mode 1	Polarization	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.6700	25.86	11.91	40.00	14.14	100	163	Vertical
2	52.3100	28.37	11.49	40.00	11.63	100	153	Vertical
3	108.5700	21.31	12.27	43.50	22.19	100	313	Vertical
4	156.1000	24.88	14.93	43.50	18.62	100	147	Vertical
5	316.1500	23.60	16.52	46.00	22.40	100	1	Vertical
6	688.6300	32.35	25.80	46.00	13.65	100	62	Vertical

**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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**FIELD STRENGTH OF FUNDAMENTAL**

EUT	2.4G induction remote control	Model Name	DR-0571
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 4.5V
Test Modulation	GFSK	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2421	47.65	49.07	84.67	114.00	-29.33	peak
2421	32.35	49.05	77.09	94.00	-16.91	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	2.4G induction remote control	Model Name	DR-0571
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 4.5V
Test Modulation	GFSK	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2421	45.63	49.08	82.73	114.00	-31.27	peak
2421	29.54	49.04	75.51	94.00	-18.49	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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**RADIATED EMISSION ABOVE 1GHZ**

EUT	2.4G induction remote control	Model Name	DR-0571
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 4.5V
Test Mode	Mode 1	Polarization	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4842.65	55.23	0.08	55.31	74.00	-18.69	peak
4842.65	42.96	0.08	43.04	54.00	-10.96	AVG
7263.424	50.11	2.21	52.32	74.00	-21.68	peak
7263.424	38.17	2.21	40.38	54.00	-13.62	AVG

Remark:

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

EUT	2.4G induction remote control	Model Name	DR-0571
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 4.5V
Test Mode	Mode 1	Polarization	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4842.65	53.17	0.08	53.25	74.00	-20.75	peak
4842.65	42.19	0.08	42.27	54.00	-11.73	AVG
7263.424	47.32	2.21	49.53	74.00	-24.47	peak
7263.424	35.43	2.21	37.64	54.00	-16.36	AVG

Remark:

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

**Note:** The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

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

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

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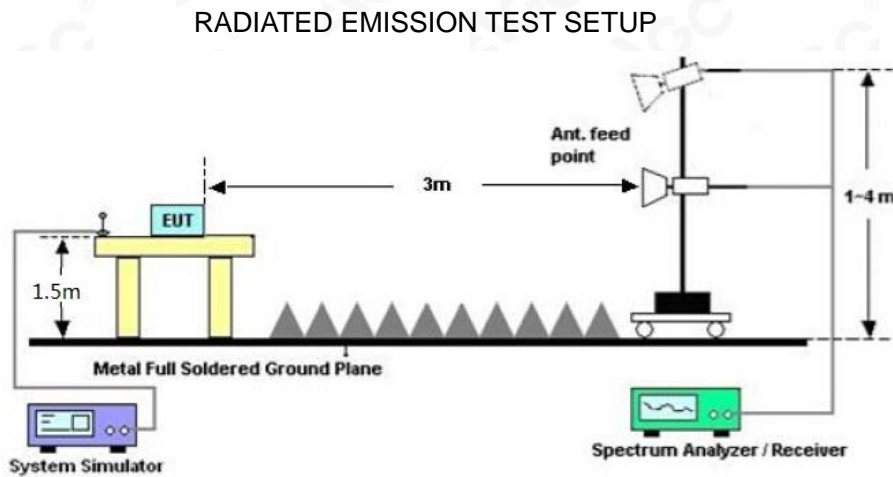


## 8. BAND EDGE EMISSION

### 8.1. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO  
(b) AVERAGE: RBW=1MHz ; VBW=3MHz / Sweep=AUTO
3. Other procedures refer to clause 7.2.

### 8.2 TEST SETUP



### 8.3 RADIATED TEST RESULT

**Note:**

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.

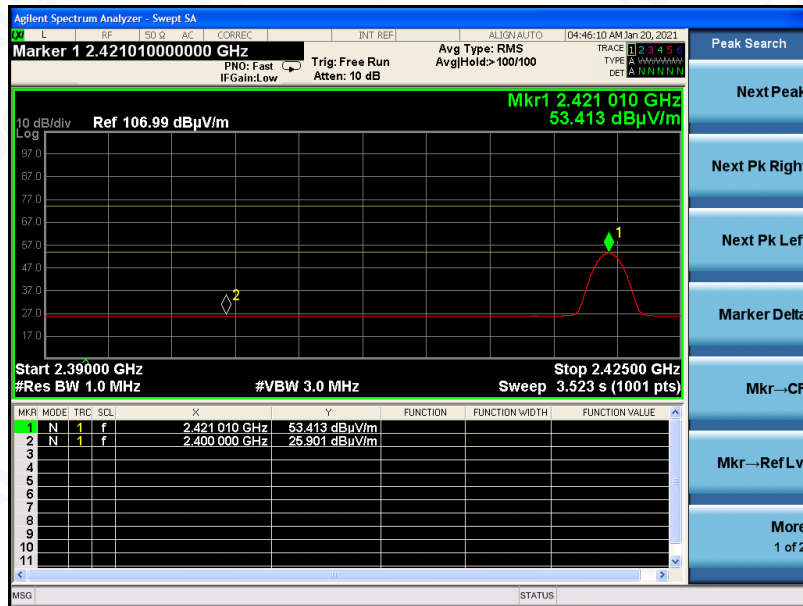
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EUT	2.4G induction remote control	Model Name	DR-0571
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 4.5V
Test Mode	Mode 1	Polarization	Horizontal

Peak Value



Average Value



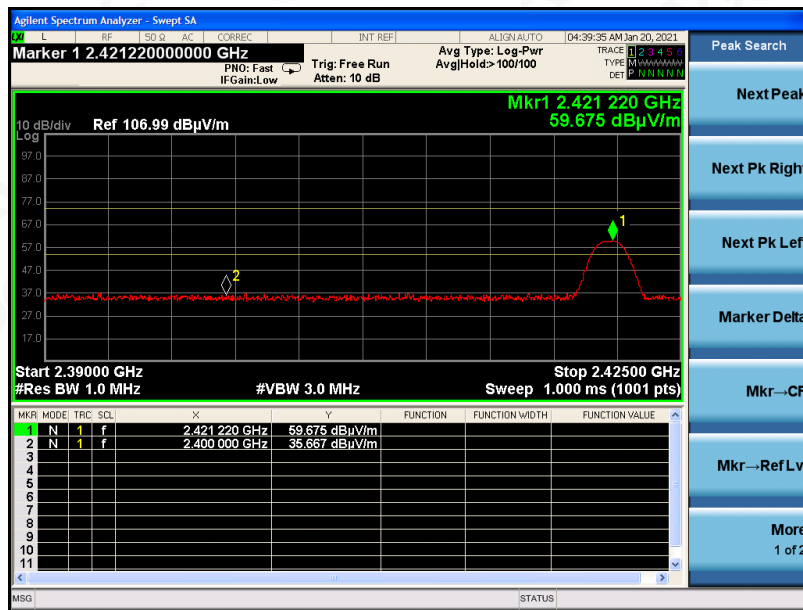
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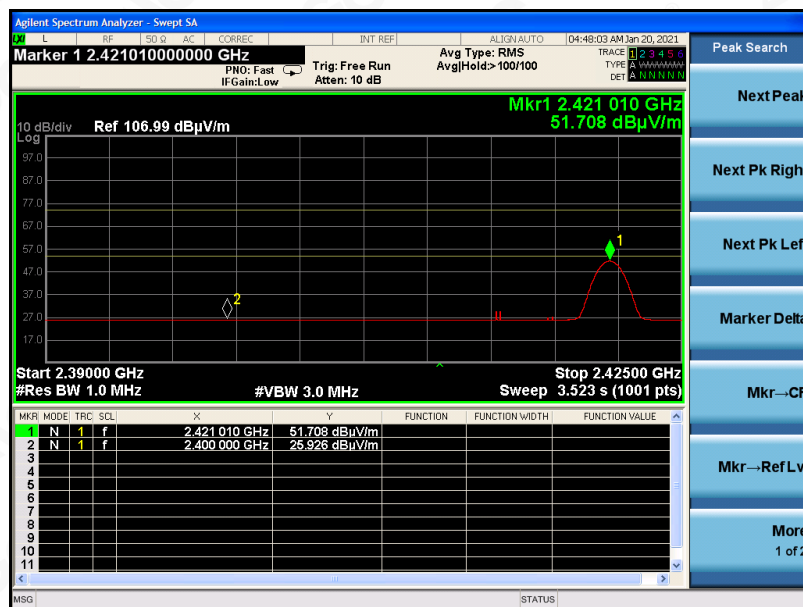


EUT	2.4G induction remote control	Model Name	DR-0571
Temperature	25°C	Relative Humidity	60%
Pressure	101kPa	Test Voltage	DC 4.5V
Test Mode	Mode 1	Polarization	Vertical

Peak Value



Average Value



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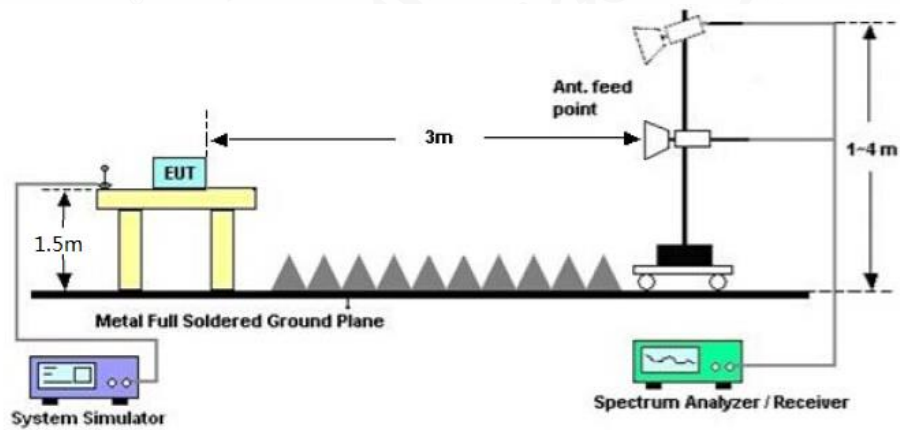


## 9. 20DB BANDWIDTH

### 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= 30 KHz, VBW  $\geq 3 \times$  RBW.
3. Set SPA Trace 1 Max hold, then View.

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



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### 9.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODULATION	GFSK

Test Channel (MHz)	20DB BANDWIDTH (MHz)	99% BANDWIDTH (MHz)	Criteria
2421	1.054	1.0477	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

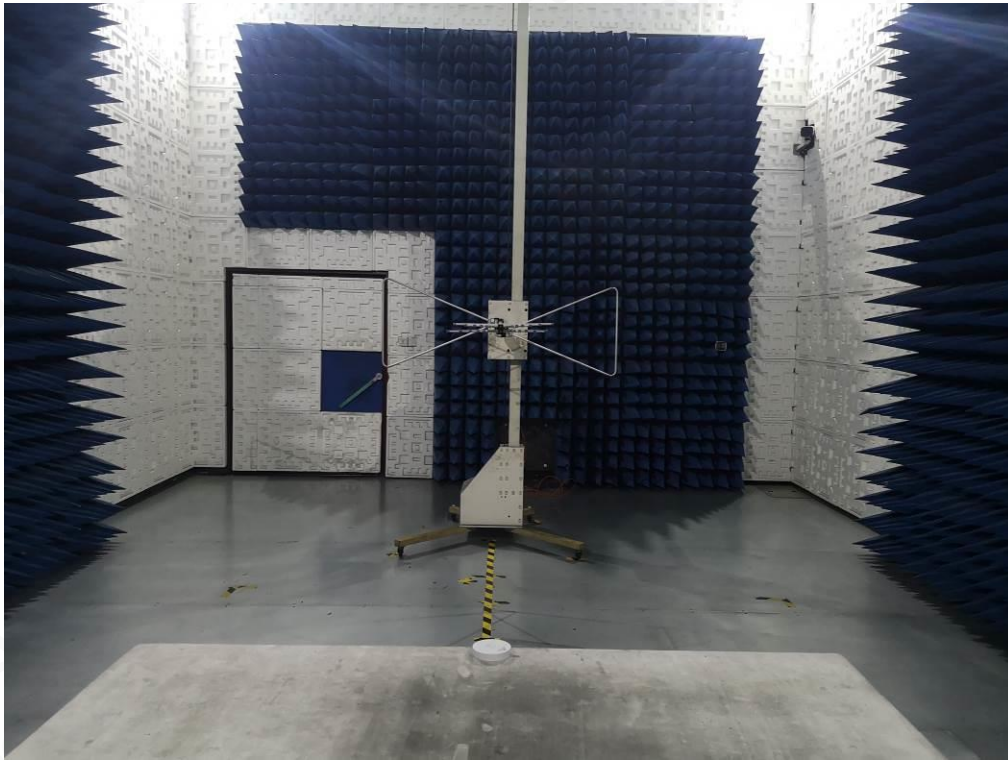


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**APPENDIX A: PHOTOGRAPHS OF TEST SETUP**  
**FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ**



**FCC RADIATED EMISSION TEST SETUP ABOVE 1**



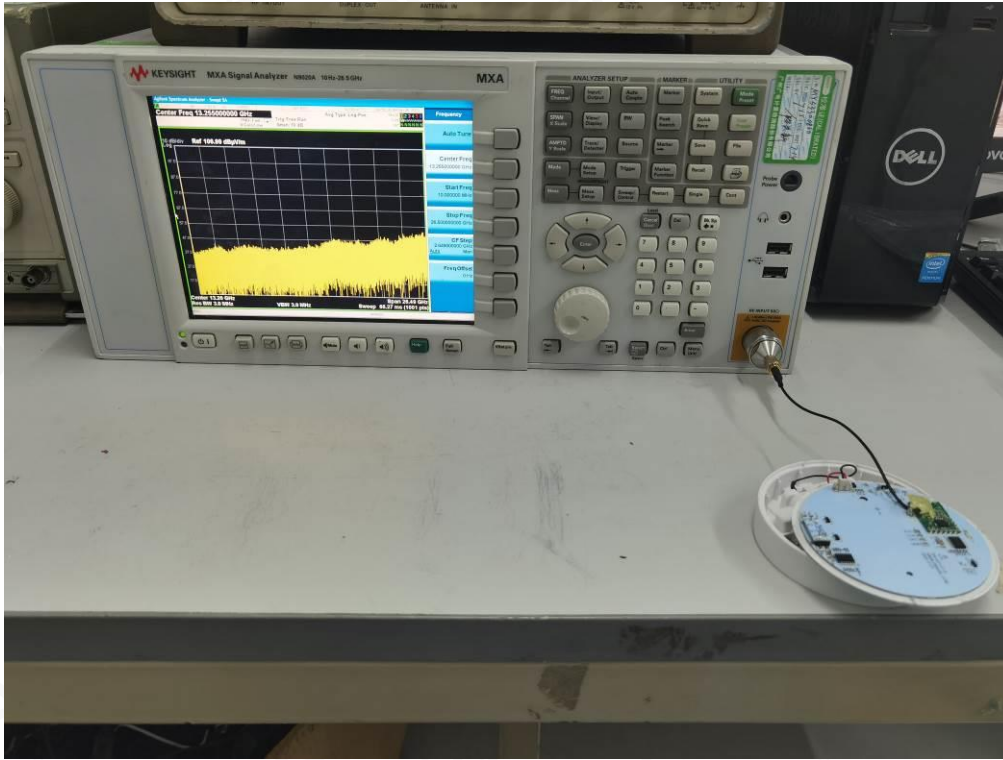
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### CONDUCTED TEST SETUP



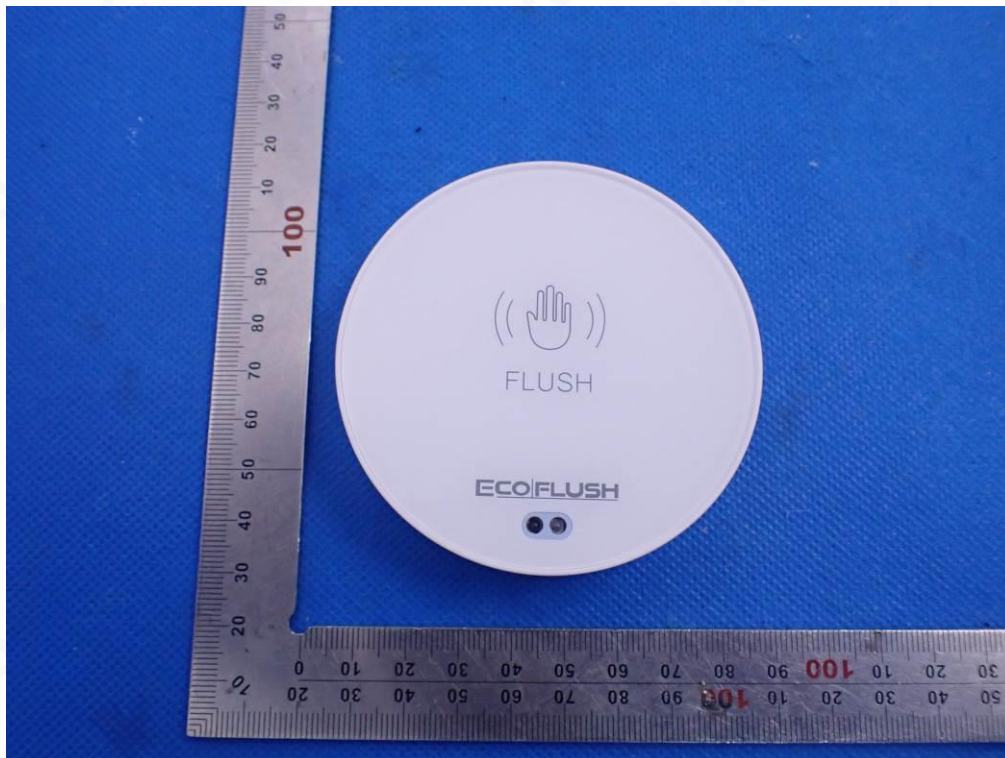
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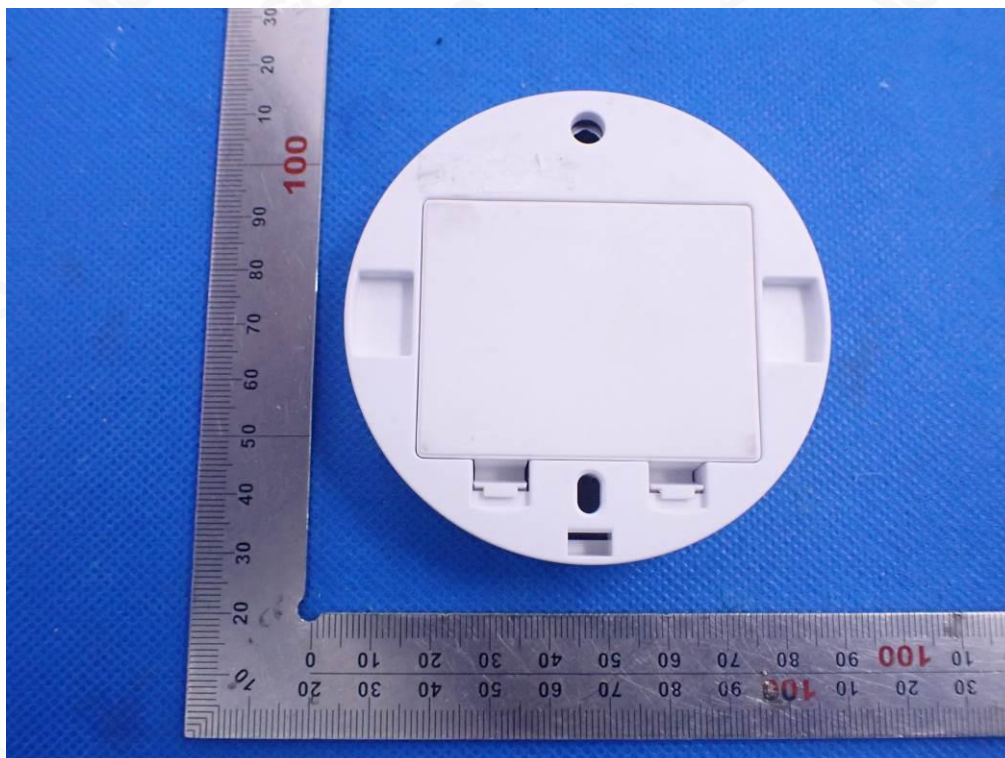




### APPENDIX B: PHOTOGRAPHS OF THE EUT TOP VIEW OF EUT



### BOTTOM VIEW OF EUT



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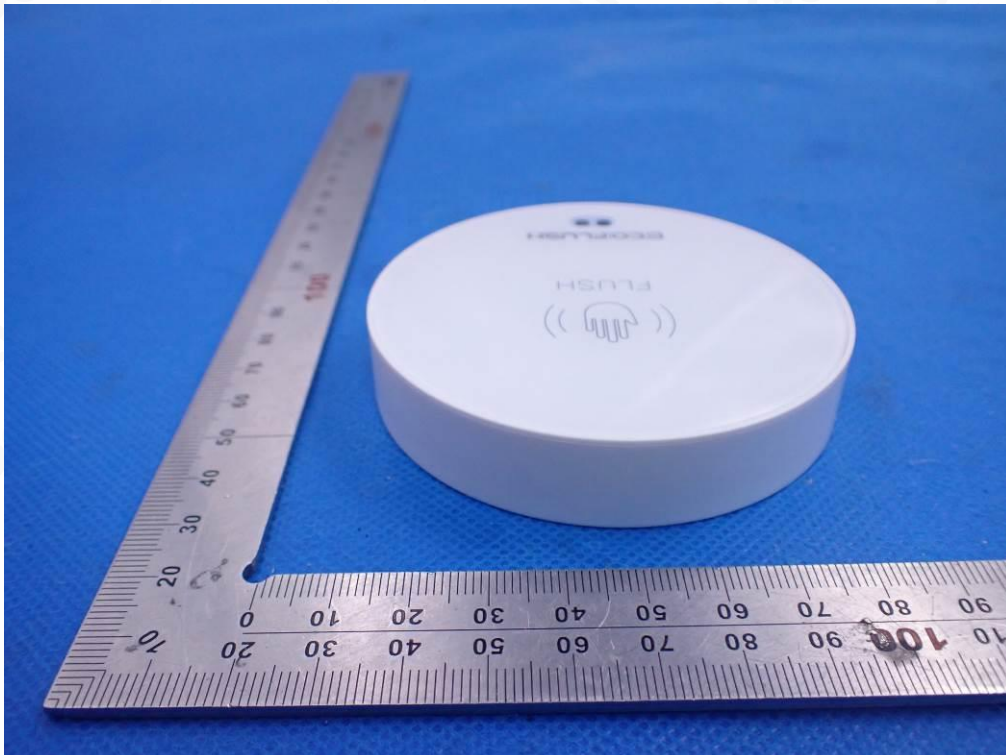
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FRONT VIEW OF EUT



BACK VIEW OF EUT



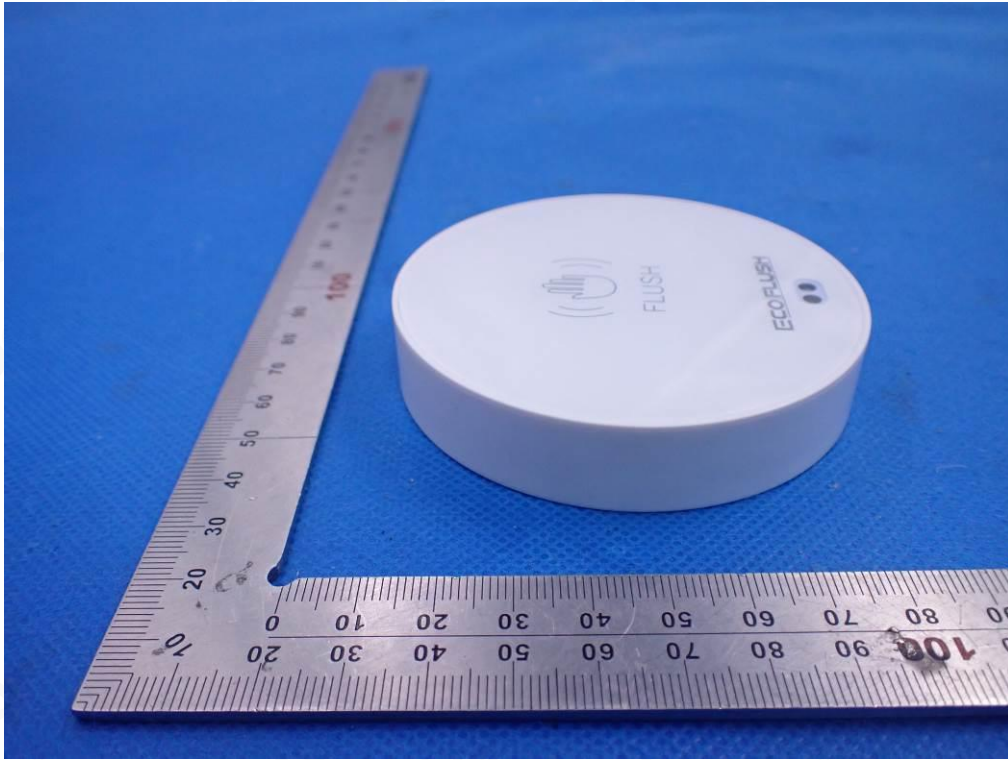
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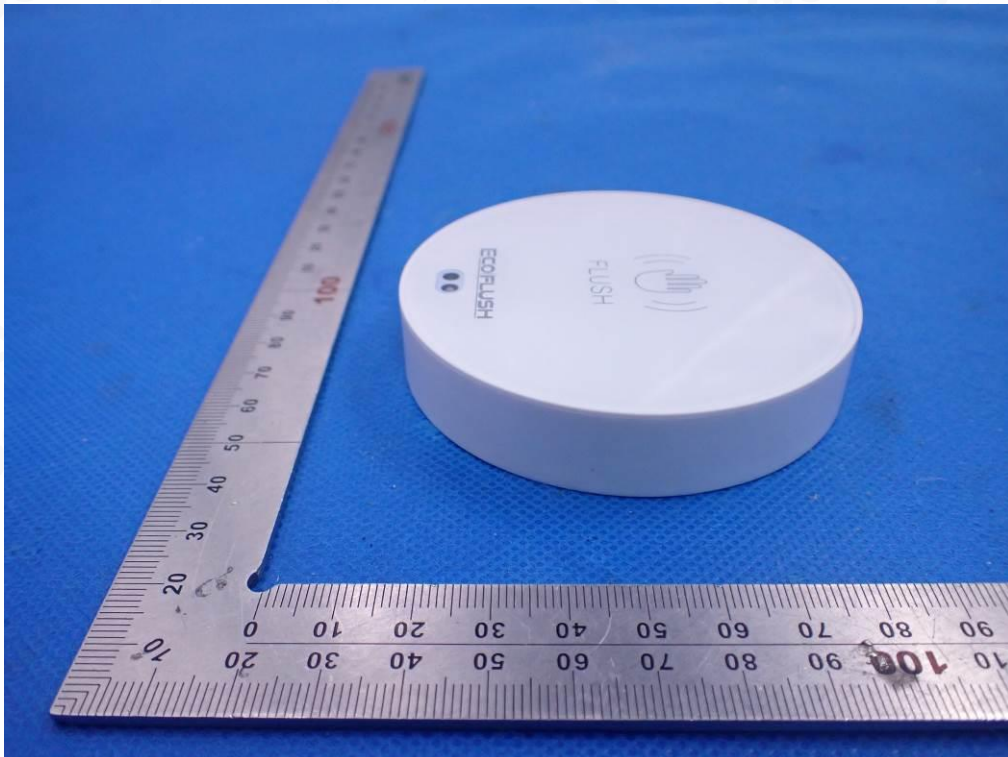




LEFT VIEW OF EUT



RIGHT VIEW OF EUT

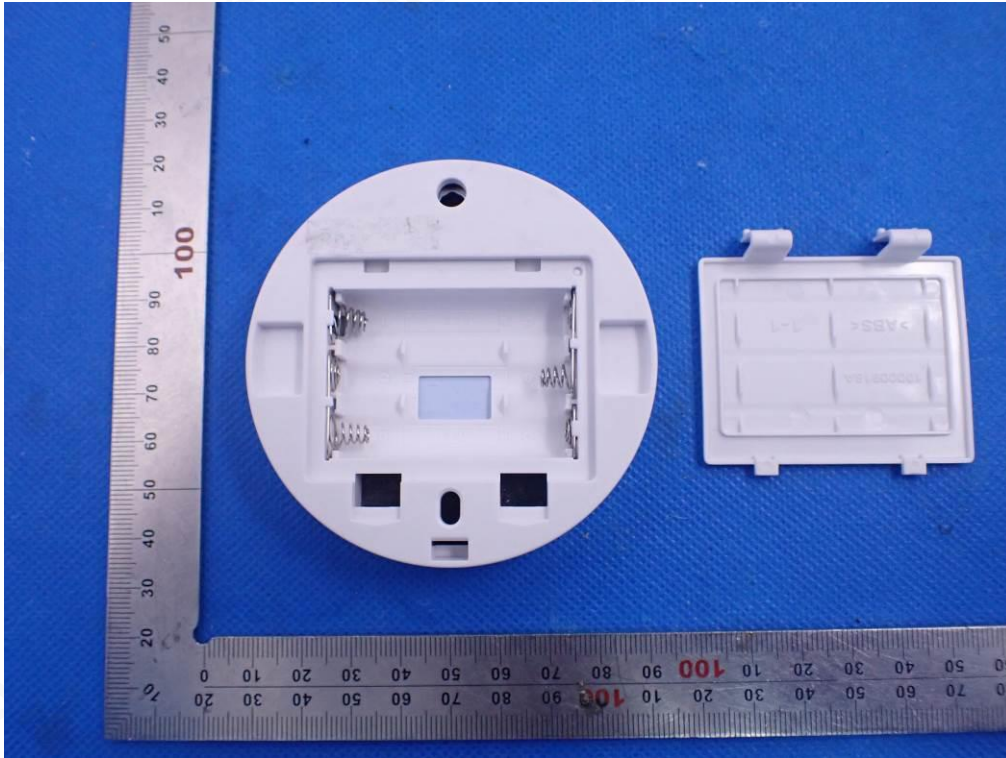


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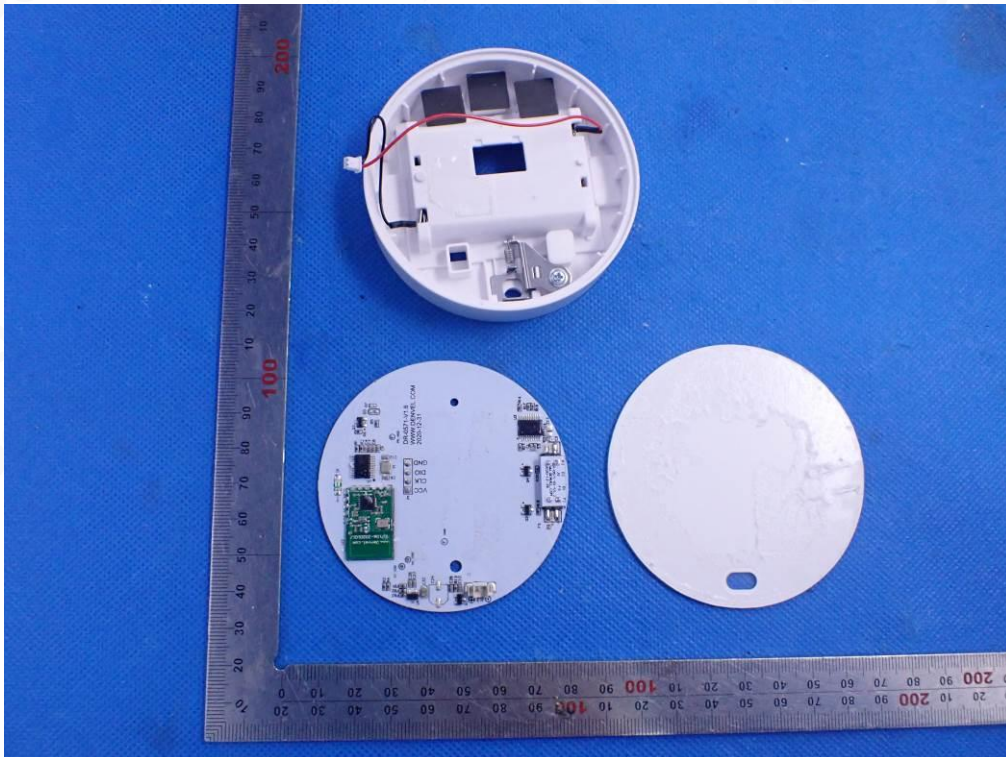
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OPEN VIEW OF EUT-1



OPEN VIEW OF EUT-2



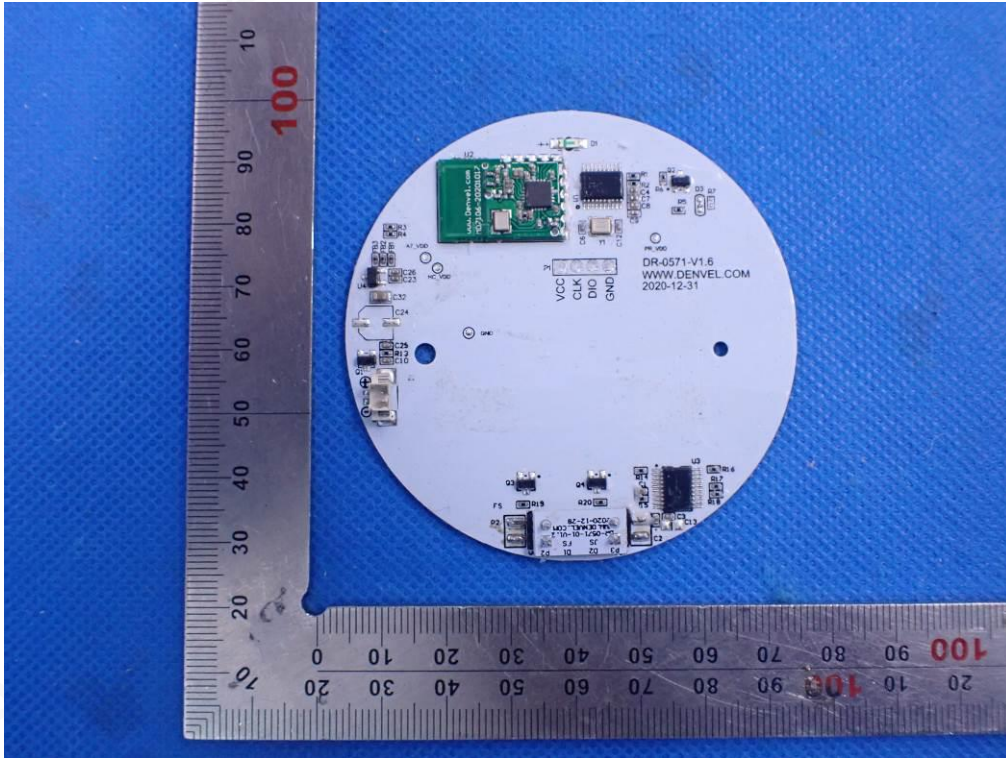
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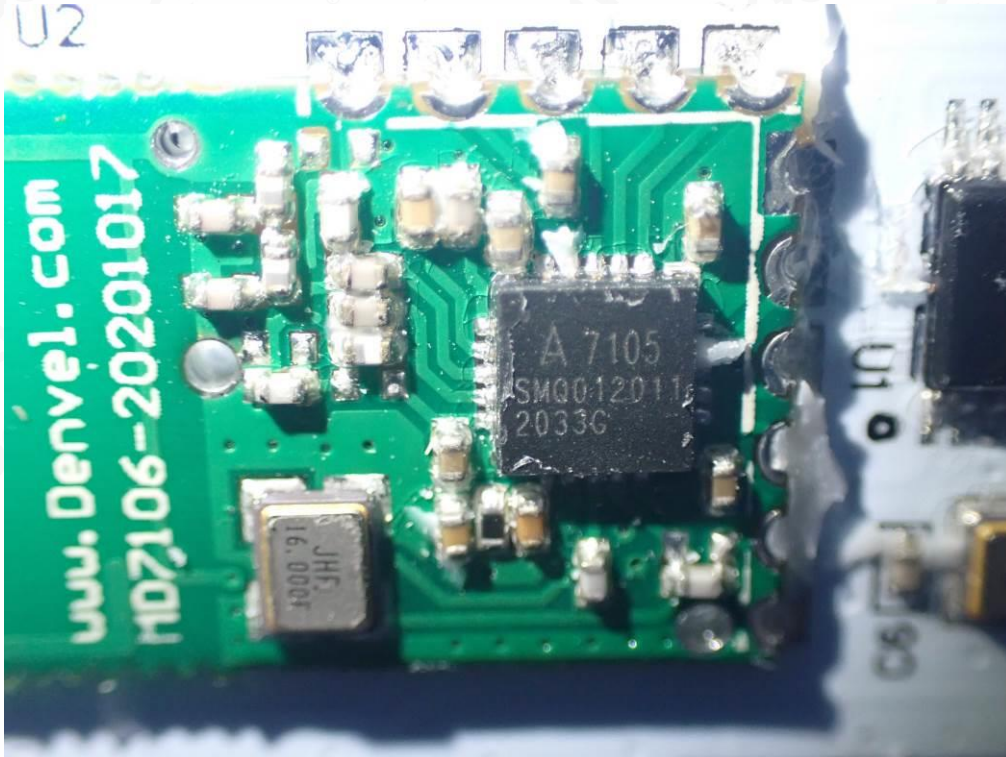




INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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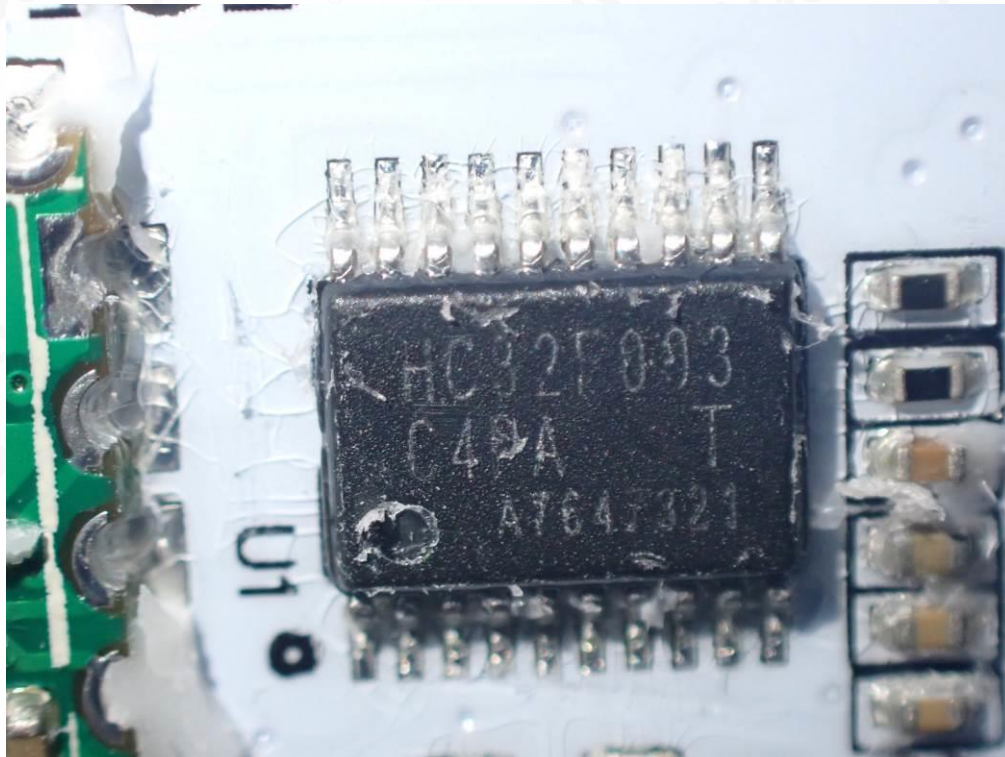




INTERNAL VIEW OF EUT-3



INTERNAL VIEW OF EUT-4



----END OF REPORT----

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### Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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