

# Lumi United Technology Co., Ltd.

# RF TEST REPORT

**SCOPE OF WORK:**

RF report

**Model:**

HM1S-G01

**REPORT NUMBER**

200702409SHA-001+A1

**ISSUE DATE**

July 20, 2021

**DOCUMENT CONTROL NUMBER**

TTRF300328-03\_V2

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**Applicant** : **Lumi United Technology Co., Ltd.**  
**8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian Ave,  
Taoyuan Residential District, Nanshan District, Shenzhen. China**

**Manufacturer** : **Same as applicant**

**Factory** : **GUANGDONG NEW ENERGY TECHNOLOGY CO., LTD.**  
**Floor1-4, Building 2, No.197 plant, East Side of Xinhua Road,  
Tongqiao Town, Zhongkai High-tech Zone, Huizhou, Guangdong,  
516032, China**

## Summary

The equipment complies with the requirements according to the following standard(s) or Specification:

**EN 300 328 V2.2.2:** Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum

**PREPARED BY:**

**REVIEWED BY:**



Project Engineer  
Eric Li

Reviewer  
Wakeyou Wang

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### Revision History

Report No.	Version	Description	Issued Date
200702409SHA-001+A1	Rev. 01	<p>This report is based on the original report 200702409SHA-001 for amendment on 2021-07-20 to include the following changes:</p> <ol style="list-style-type: none"> <li>1. Added one alternative source for plastic enclosure and plug holder</li> <li>2. Added one alternative source for Transformer,</li> <li>3. Added one alternative source for CM choke,</li> <li>4. Added one alternative source for Y1 capacitor,</li> <li>5. Changed design of ventilation openings,</li> <li>6. Remove the HomeKit chip</li> </ol> <p>These changes have no effect on the RF function, only the EMC tests were conducted.</p>	July 20, 2021

## Measurement result summary

TEST ITEM	TEST RESULT	NOTE
RF Output Power	Pass*	
Power Spectral Density	Pass*	
Duty Cycle, Tx-sequence, Tx-gap	NA	Only for non-adaptive equipment or mode
Medium Utilization (MU) factor	NA	Only for non-adaptive equipment or mode
Occupied Channel Bandwidth	Pass*	
Transmitter unwanted emissions in the out-of-band domain	Pass*	
Transmitter unwanted emissions in the spurious domain	Pass*	
Adaptivity (non-FHSS)	Pass*	
Receiver Blocking	Pass*	
Receiver spurious emission	Pass*	
Geo-location capability	NA	

Notes: 1: NA =Not Applicable

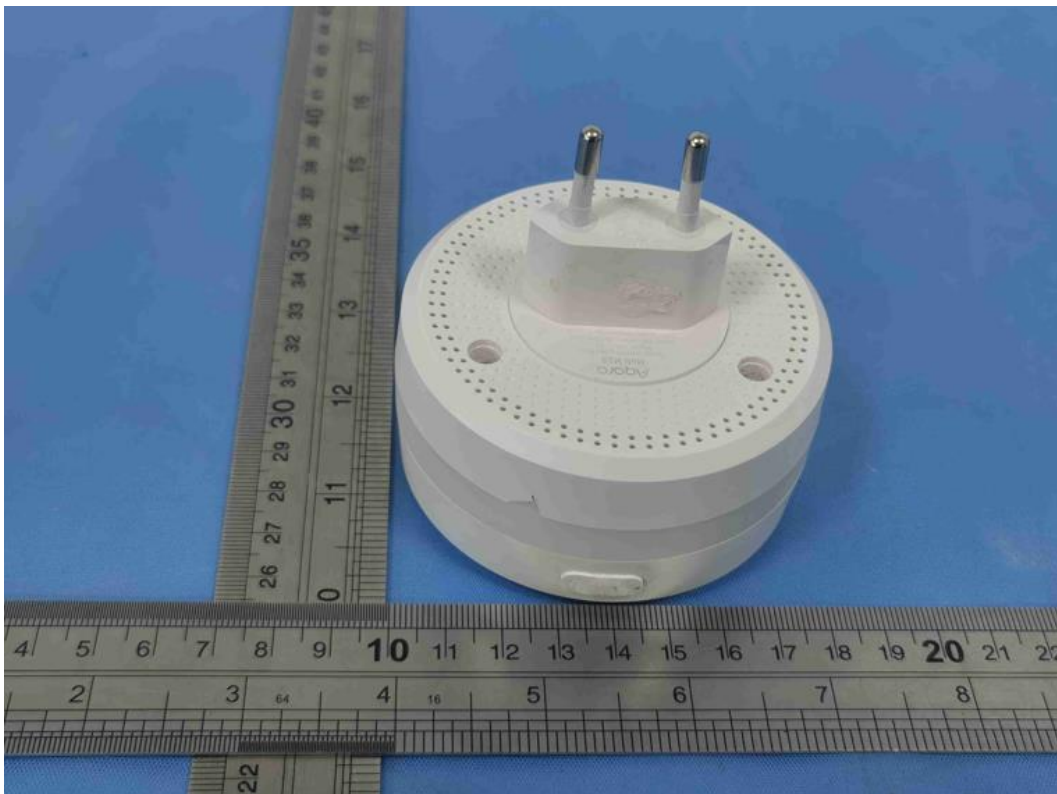
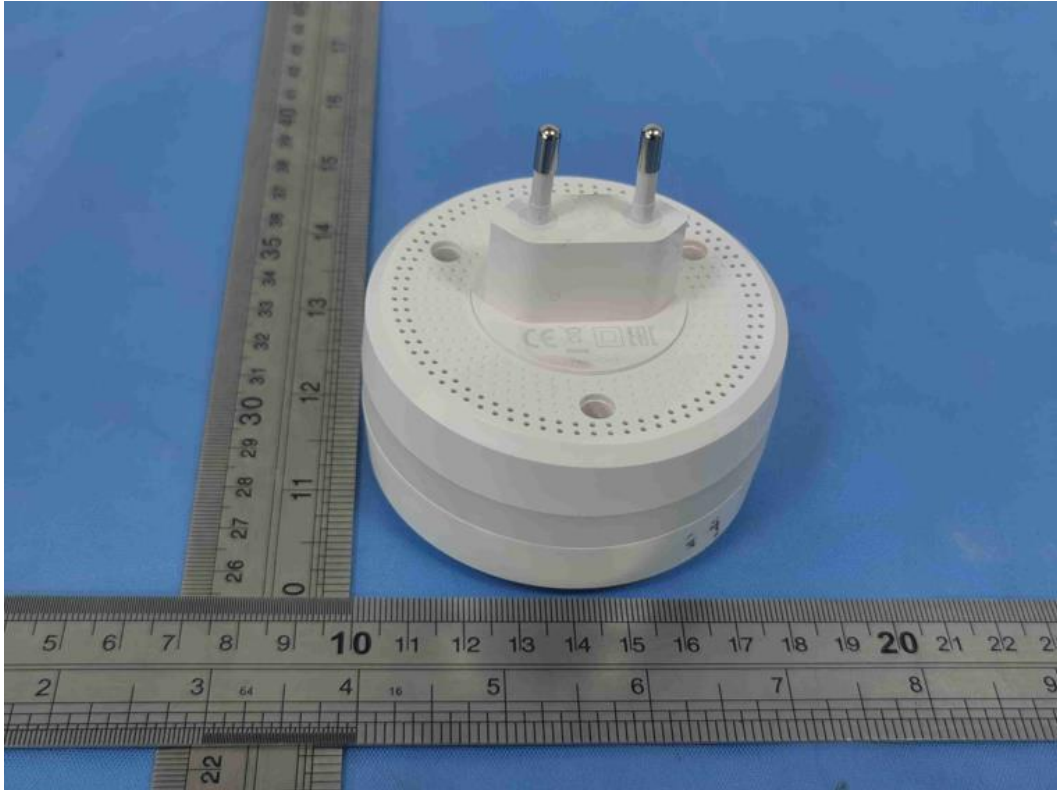
2: "\*" means this test is no need and not performed within this report, and the result can refer to the related base report(s).

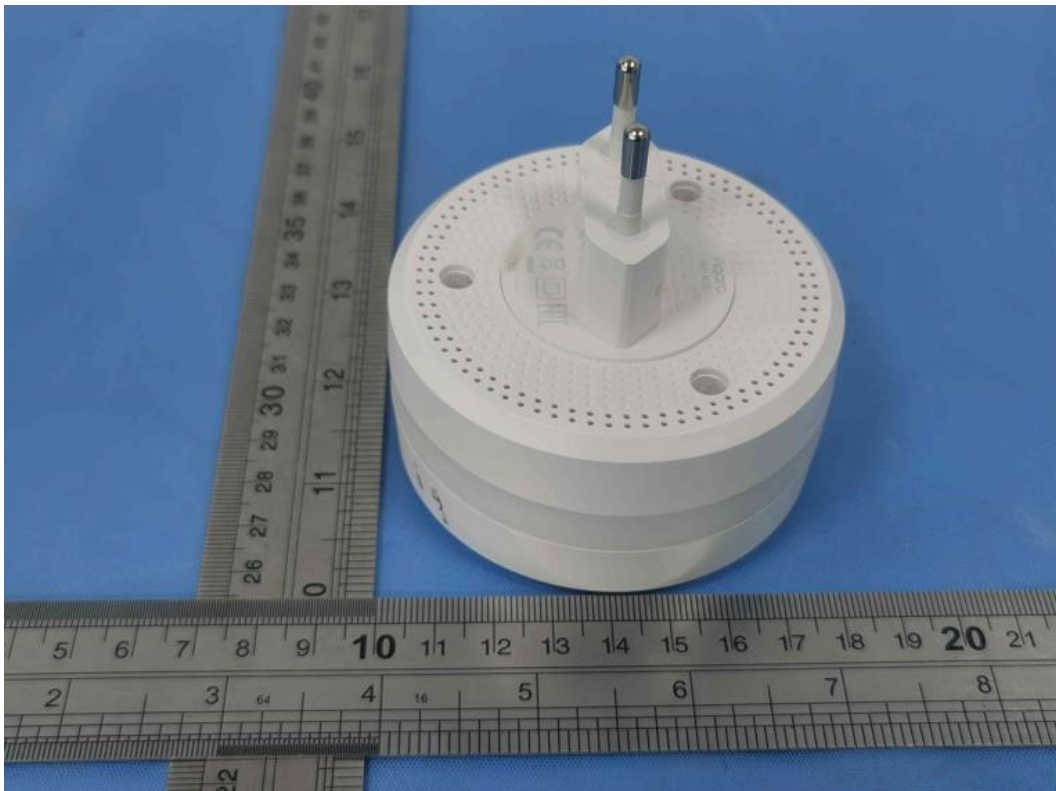
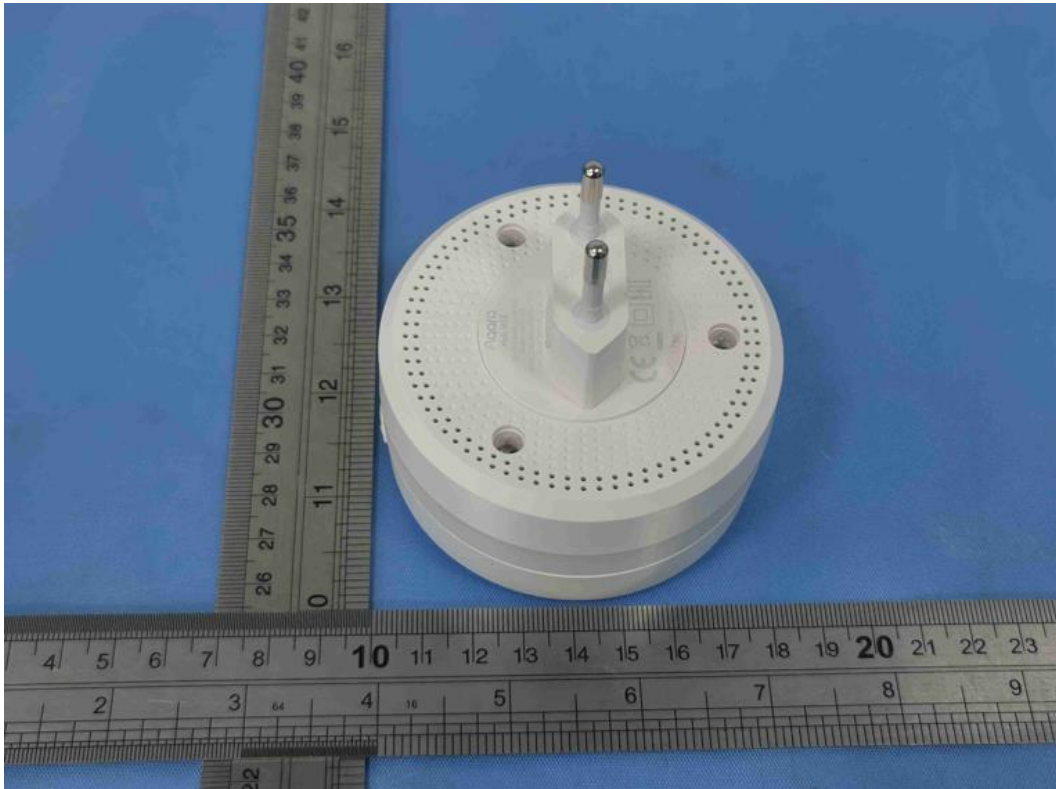
3: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

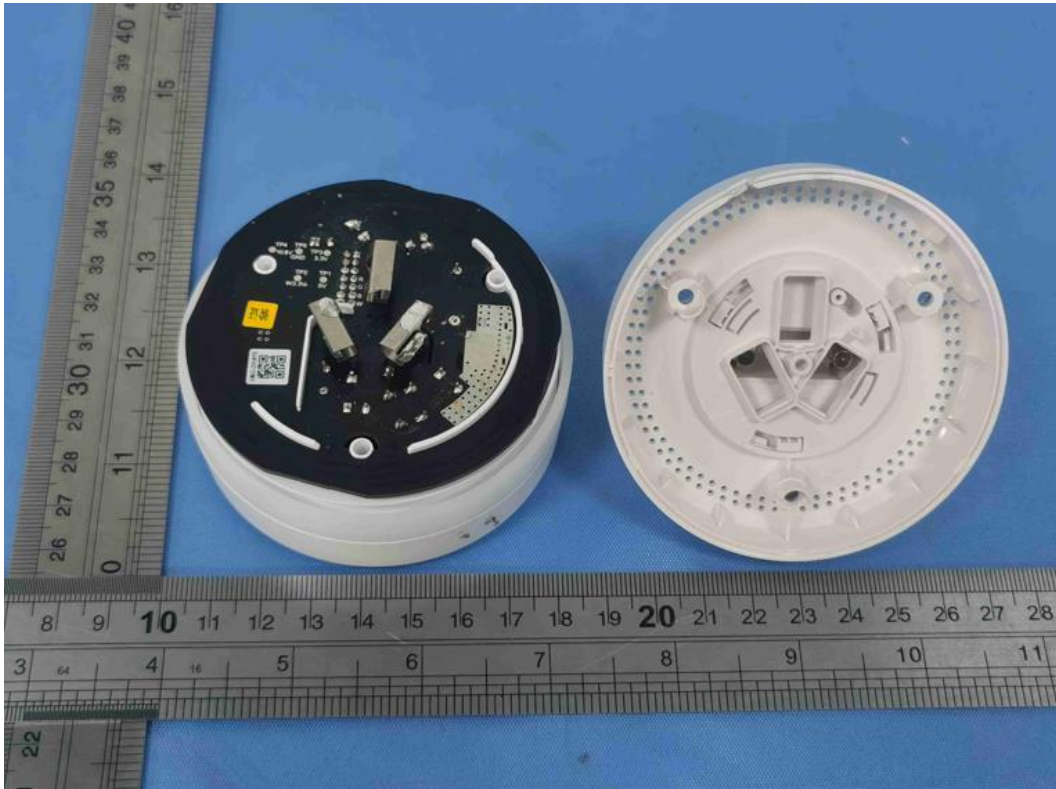
4: Additions, Deviations and Exclusions from Standards: None.

**Appendix I: Photograph of equipment under test**

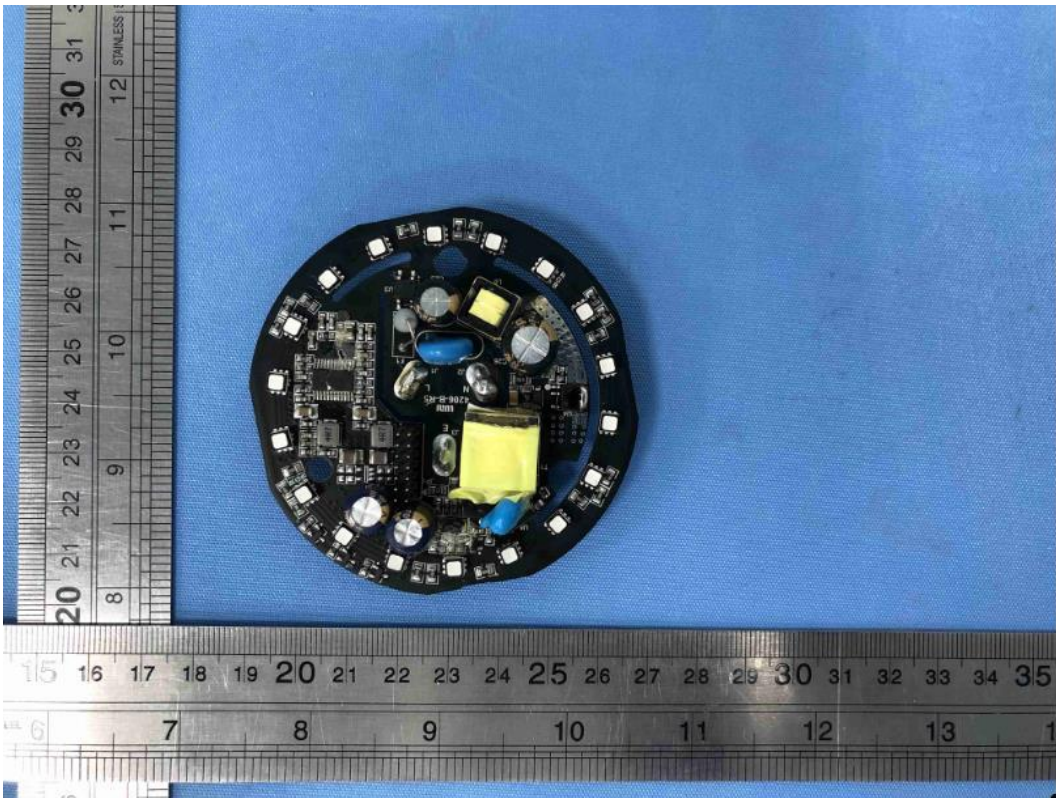
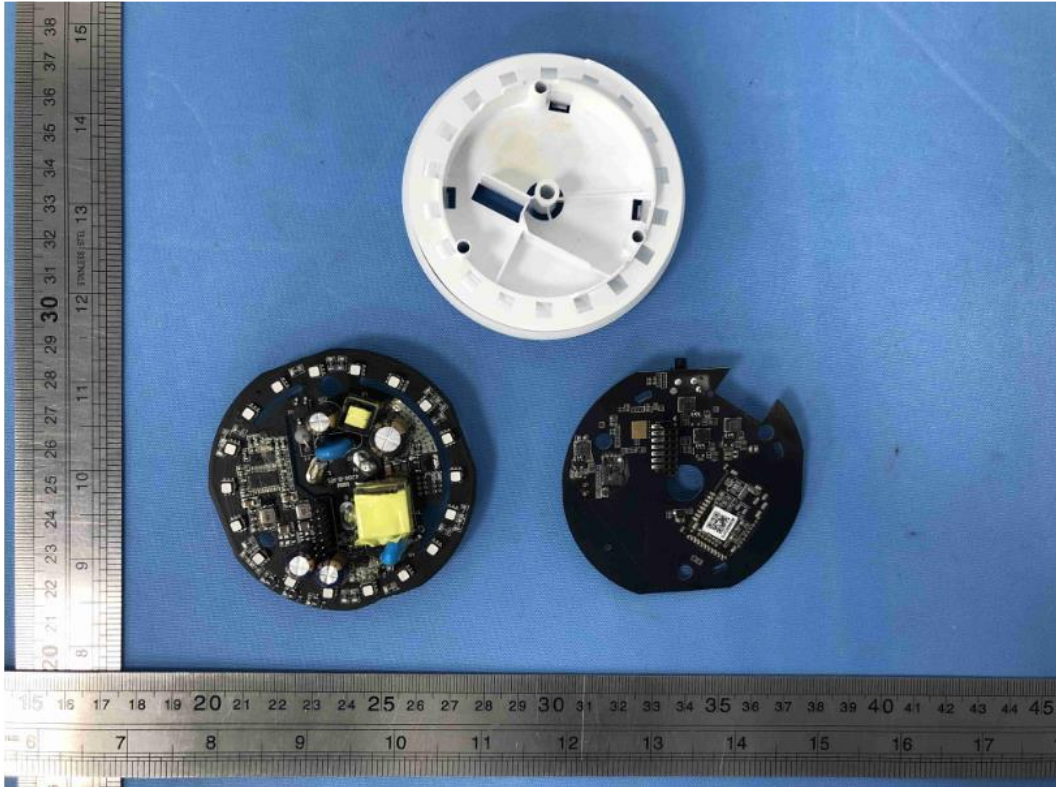


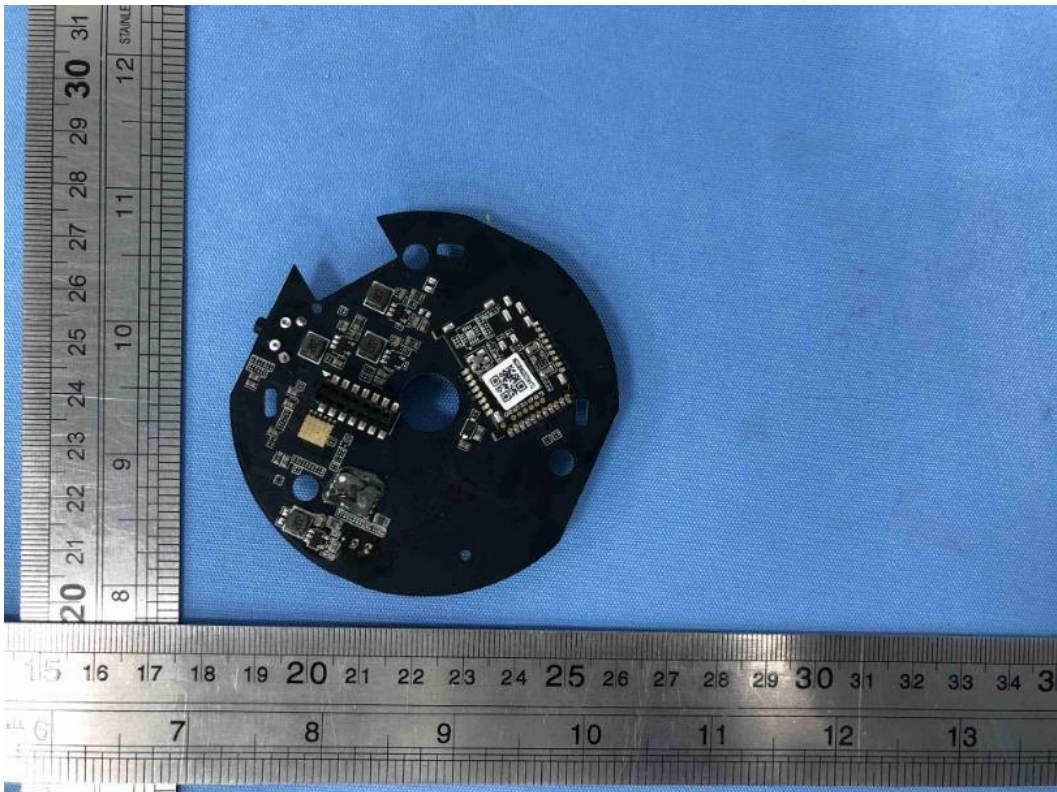
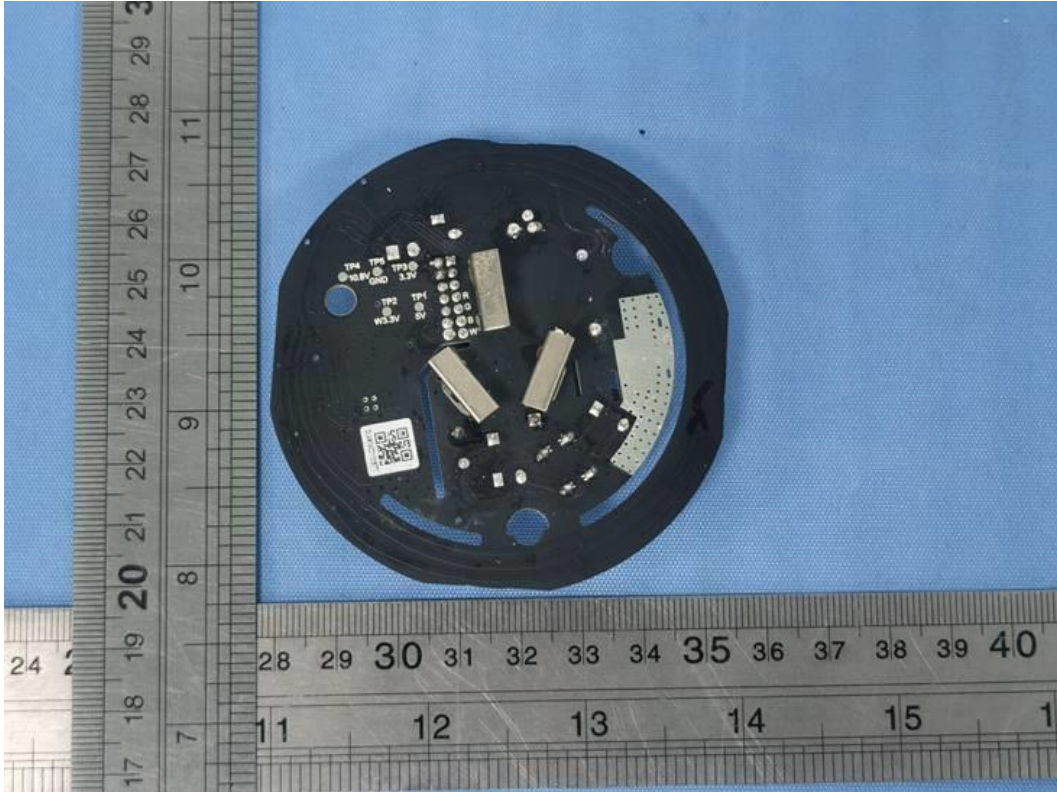


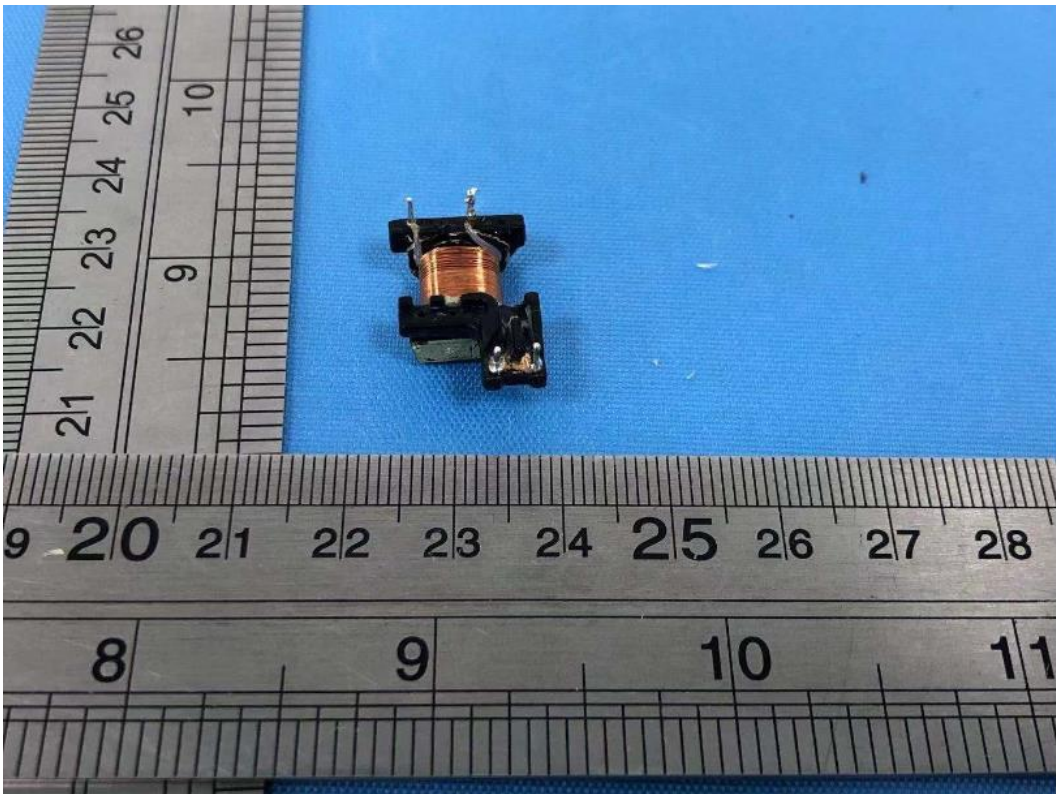
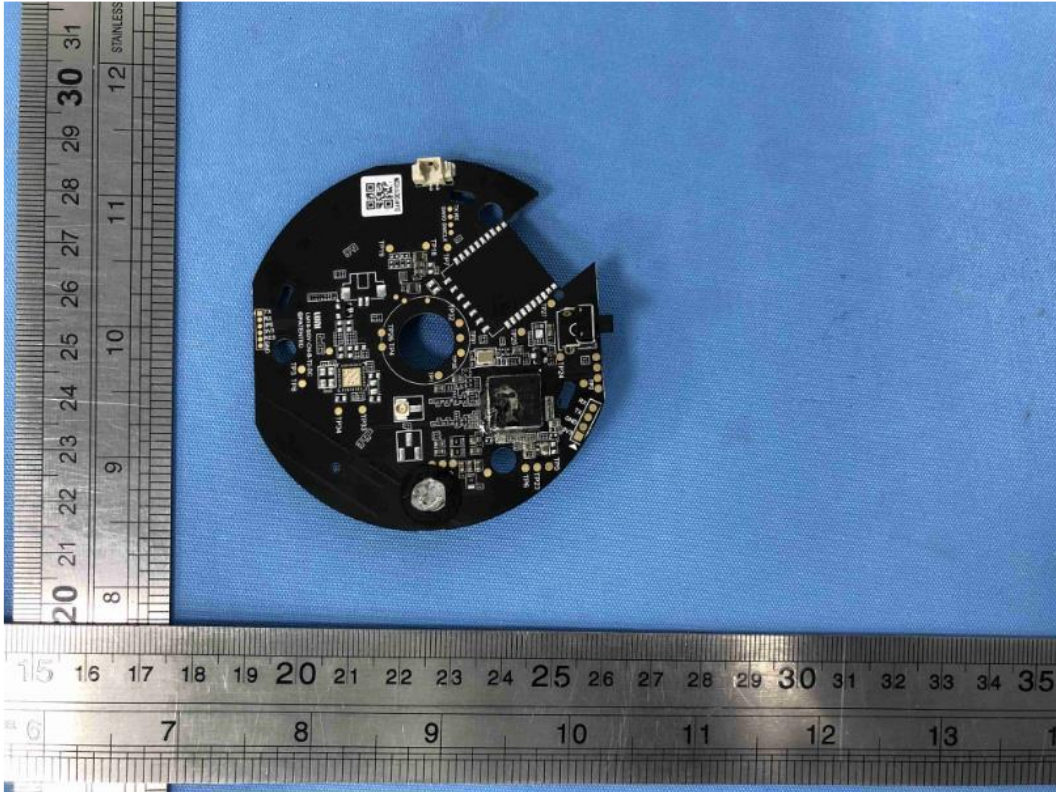












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