

TEST REPORT

Product Name : Linkage module of range hood and cooktop
Model Number : Z01
FCC ID : 2BCN8-Z01

Prepared for : NINGBO FOTILE KITCHEN WARE CO., LTD.
Address : No.218 Binhai 2 Rd, Hangzhou Bay New District, Ningbo, China

Prepared by : EMTEK (NINGBO) CO., LTD.
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Report Number : ENB2305310204W00102R
Date(s) of Tests : August 23, 2023 to August 30, 2023
Date of Issue : August 31, 2023

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Test Report Description


Applicant : NINGBO FOTILE KITCHEN WARE CO., LTD.
Address : No.218 Binhai 2 Rd, Hangzhou Bay New District , Ningbo, China
Manufacturer : NINGBO FOTILE KITCHEN WARE CO., LTD.
Address : No.218 Binhai 2 Rd, Hangzhou Bay New District , Ningbo, China
EUT : Linkage module of range hood and cooktop
Model Name : Z01
Trademark : FOTILE

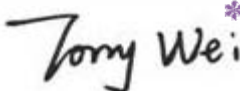
The device described above is tested by EMTEK (NINGBO) CO., LTD. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. This report shows the EUT to be technically compliant with the FCC 1.1310 and KDB 447498 D01 General RF Exposure Guidance v06 requirements. The test results are contained in this report and EMTEK (NINGBO) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests.

This report applies to above tested sample only and shall not be reproduced in part without written approval of EMTEK (NINGBO) CO., LTD.

Date of Test : August 23, 2023 to August 30, 2023

Prepared by : 
June Gao /Engineer

Reviewer : 
Vinay /Supervisor

Approve & Authorized Signer : 
Tony wei/Manager

Modified Information

Version	Report No.	Revision Date	Summary
/	ENB2305310204W00102R	/	Original Report



1. Facilities And Accreditations

1.1. Test Facility

All measurement facilities used to collect the measurement data are located at

No. 8, Building 8, Lane 216, Qingyi Road, Ningbo Hi-Tech Zone, Ningbo, Zhejiang, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 32.

1.2. LABORATORY ACCREDITATIONS AND LISTINGS

Site Description
EMC Lab.

: Accredited by CNAS

The Certificate Registration Number is L6666.

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2018 (identical to ISO/IEC 17025:2017)

Designation by FCC

Designation Number: CN1354

Test Firm Registration Number: 427606

Accredited by A2LA

The certificate is valid until August 4, 2023

Accredited by Industry Canada

The Conformity Assessment Body Identifier is CN0114

Name of Firm

: EMTEK (NINGBO) CO., LTD.

Site Location

: No. 8, Building 8, Lane 216, Qingyi Road, Ningbo Hi-Tech Zone, Ningbo, Zhejiang, China

2. General Product Information

Characteristics	Description
Product:	Linkage module of range hood and cooktop
Model Number:	Z01
Sample Number:	ENB2305310204W001-1-1
Modulation:	GFSK
Operating Frequency:	2423 MHz, 2470MHz
Max Transmit Power:	58.16 dBuV/m
Antenna Type :	PCB Antenna
Antenna Gain:	2.43 dBi
Power supply:	DC 3.3V
Test Power:	AC 120V/60Hz
Temperature Range:	-10°C ~ +90°C
Date of Received:	August 22, 2023

Note: for more details, please refer to the User's manual of the EUT.

3. Limit

According to §15.249(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz;

Power and distance are rounded to the nearest mW and mm before calculation;

The result is rounded to one decimal place for comparison;

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

We use 5mm as separation distance to calculate.



4. Test Results

Maximum measured transmitter power:

2423MHz: $EIRP = E + 20\log(d) - 104.7 = 52.60 + 9.54 - 104.7 = -42.56$ dBm

2470MHz: $EIRP = E + 20\log(d) - 104.7 = 58.16 + 9.54 - 104.7 = -37$ dBm

Transmit Frequency (MHz)	Mode	EIRP Power (dBm)	tune up maximum power(dBm)	Result calculation	1-g SAR
2423	GFSK	-42.56 dBm	-41.0	0.00002	3
2470	GFSK	-37.00 dBm	-37.0	0.00006	3

Conclusion:

For the max result : $0.00006 \leq 3.0$ for 1-g SAR extremity SAR, No SAR is required.

*** End of Report ***

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