

RF Exposure evaluation

Product Name : Riko Fresh-Made Wet Meal Feeder
Brand Name : Neakasa
Model : PS0300
Series Model : PS03*****
FCC ID : 2A87R-PS0300
Applicant : **Genhigh Tech Co.,Limited**
Address : #B2408, Building 9, District 2, Shenzhen Bay ECO-Technology Park, #3609 Baishi Road, High-tech Zone Community, Yuehai Street, Nanshan District, Shenzhen, 518000, China
Manufacturer : **Genhigh Tech Co.,Limited**
Address : #B2408, Building 9, District 2, Shenzhen Bay ECO-Technology Park, #3609 Baishi Road, High-tech Zone Community, Yuehai Street, Nanshan District, Shenzhen, 518000, China
Standard(s) : 47CFR §1.1310, 47CFR §2.1091
KDB447498 D01 General RF Exposure Guidance v06
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Issued By: **Dongguan Yaxu (AiT) Technology Limited**
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Note: This device has been tested and found to comply with the standard(s) listed, this test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory. This report shall not be reproduced except in full, without the written approval of Dongguan Yaxu (AiT) Technology Limited. If there is a need to alter or revise this document, the right belongs to Dongguan Yaxu (AiT) Technology Limited, and it should give a prior written notice of the revision document. This test report must not be used by the client to claim product endorsement.



Report Revise Record

Report Version	Issued Date	Notes
M0	Aug. 07, 2026	Initial Release

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1 GENERAL INFORMATION

1.1 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

1.2 General Description of EUT

Product Name:	Riko Fresh-Made Wet Meal Feeder
Model/Type reference:	PS0300
Serial Model:	PS03*****
Model Difference	All the models are electrically identical, with the same mechanical structure and design, except for differences in colors and sales regions. “ * ” Represents different colors and sales regions.
Power Supply:	DC 12V from adapter
Adapter:	Adapter 1: MODEL :CZH024N120150USWQ INPUT:100-240V~50/60Hz 0.8A Max OUTPUT: 12.0V==1.5A Manufacturer: Shenzhen CHANZEHO Technology Co., Limited.
	Adapter 2: MODEL :KAT018T-1201500US INPUT:100-240V~50/60Hz 0.65A Max OUTPUT: 12V==1500mA Manufacturer: Shenzhen Keyu Power Supply Technology Co., Ltd.
	Adapter 3: MODEL :KT241120150US INPUT:100-240V~50/60Hz 0.8A OUTPUT: 12.0V==1.5A 18.0W Manufacturer: SHENZHEN KUANTEN LIMITED
Hardware Version:	N/A
Software Version:	N/A
Sample(s) Status:	AiTDG-260507013-1(Normal sample) AiTDG-260507013-2(Engineer sample)
Bluetooth LE:	
Supported type:	Bluetooth LE 1M/2M
Modulation:	GFSK
Operation frequency:	2402MHz~2480MHz
Channel number:	40
Channel separation:	2MHz
Antenna type:	FPC antenna
Antenna gain:	5.87dBi
2.4G WIFI:	
Supported type:	802.11b/802.11g /802.11n(HT20)/802.11n(HT40)

Modulation:	802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM
Operation frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
Channel number:	802.11b/802.11g/802.11n(HT20): 11 802.11n(HT40): 7
Channel separation:	5MHz
Antenna type:	FPC antenna
Antenna gain:	5.87dBi
Remark: The above DUT's information was declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.	

1.3 Test Facility

Test Laboratory: Dongguan Yaxu (AiT) Technology Limited

No.22, Jinqianling 3rd Street, Jitigang, Huangjiang, Dongguan, Guangdong, China

The test facility is recognized, certified or accredited by the following organizations:

CNAS-Registration No: L6177

Dongguan Yaxu (AiT) technology Limited is accredited to ISO/IEC 17025:2017 general Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the competence of testing and calibration laboratories) on April 18, 2022

FCC-Registration No.: 362653 Designation Number: CN1457

Dongguan Yaxu (AiT) Technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC-Registration No.: 6819A CAB identifier: CN0122

The 3m Semi-anechoic chamber of Dongguan Yaxu (AiT) Technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 6819A

A2LA-Lab Cert. No.: 6317.01

Dongguan Yaxu (AiT) Technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

1.4 Measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Dongguan Yaxu (AiT) Technology Limited's quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for laboratory is reported:

Test	Measurement Uncertainty	Notes
Power Line Conducted Emission	9KHz~30MHz ± 1.20 dB	(1)
Radiated Emission	9KHz~30MHz ± 3.10 dB	(1)
Radiated Emission	30MHz~1GHz ± 3.75 dB	(1)
Radiated Emission	1GHz~18GHz ± 3.88 dB	(1)
Radiated Emission	18GHz-40GHz ± 3.88 dB	(1)
RF power, conducted	30MHz~6GHz ± 0.16 dB	(1)
RF power density, conducted	± 0.24 dB	(1)
Spurious emissions, conducted	± 0.21 dB	(1)
Temperature	$\pm 1^{\circ}\text{C}$	(1)
Humidity	$\pm 3\%$	(1)
DC and low frequency voltages	$\pm 1.5\%$	(1)
Time	$\pm 2\%$	(1)
Duty cycle	$\pm 2\%$	(1)

The report uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty Multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately

95%.

2 Method of measurement

2.1 Applicable Standard

According to §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 §1.1310 and §2.1091 RF exposure is calculated.

FCC KDB447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures

2.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
3.0 – 30	1842/f	4.89/f	(900/f)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	/	/	f/300	6
1500 – 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 1.34	614	1.63	*(100)	30
1.34 – 30	824/f	2.19/f	*(180/f ²)	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

2.3 MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

2.4 Manufacturing Tolerance

BLE

BLE 1M GFSK (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	0	-1.0	-1.5
Tolerance ±(dB)	1.0	1.0	1.0
BLE 2M GFSK (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	0	-0.5	-1.0
Tolerance ±(dB)	1.0	1.0	1.0

2.4GHz WLAN

IEEE 802.11b (Peak)			
Frequency (MHz)	Antenna 1		
	2412	2437	2462
Target (dBm)	10.0	10.0	10.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11g (Peak)			
Frequency (MHz)	Antenna 1		
	2412	2437	2462
Target (dBm)	10.5	9.0	9.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Peak)			
Frequency (MHz)	Antenna 1		
	2412	2437	2462
Target (dBm)	8.0	8.0	8.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Peak)			
Frequency (MHz)	Antenna 1		
	2422	2437	2452
Target (dBm)	9.0	9.0	9.0
Tolerance ± (dB)	1.0	1.0	1.0

2.5 Standalone MPE Result

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r = 20\text{cm}$, as well as the gain of the used antenna is refer to section 2.4, the RF power density can be obtained.

Modulation Type	Output power with tune_up		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
BLE	1.0	1.2589	5.87	3.8637	0.00097	1.0000
2.4G WIFI	11.5	14.1254	5.87	3.8637	0.01086	1.0000

Remark:

1. Output power including turn-up tolerance;

2. MPE evaluate distance is 20cm from user manual provide by manufacturer.

SUM MPE_{Ratios} = BLE_{Ratio} + 2.4G WIFI_{Ratio}

= $0.00097/1 + 0.01086/1 = 0.01183 < 1.0$

2.6 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

***** End of Report *****