



Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

RF Exposure MPE

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Date of issue: Aug. 24, 2026

Testing Laboratory Name.....: Shenzhen CTA Testing Technology Co., Ltd.

Address: Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name.....: Jiangsu Zhong Heng Pet Articles Joint-stock CO., LTD

Address: NO.1388 Century Avenue, Yandu District, Yancheng City, Jiangsu, China

Standard.....: 47CFR §1.1310

47CFR §2.1091

KDB447498 D01 General RF Exposure Guidance v06

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Test item description: Automatic Cat Feeder with 3 Bowls WiFi

Trade Mark: N/A

Manufacturer: Jiangsu Zhong Heng Pet Articles Joint-stock CO., LTD

Model/Type reference: AFF300-9L-B3-W

Listed Models: N/A

Rating: Input: DC 5V, 2A

Battery: DC 4.5V

Result: PASS

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TEST REPORT

Equipment under Test : Automatic Cat Feeder with 3 Bowls WiFi

Model /Type : AFF300-9L-B3-W

Applicant : **Jiangsu Zhong Heng Pet Articles Joint-stock CO., LTD**

Address : NO.1388 Century Avenue, Yandu District, Yancheng City, Jiangsu,
China

Manufacturer : **Jiangsu Zhong Heng Pet Articles Joint-stock CO., LTD**

Address : NO.1388 Century Avenue, Yandu District, Yancheng City, Jiangsu,
China

Test Result:	PASS
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The 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.

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1 TEST STANDARDS

The tests were performed according to following standards:

[ANSI C95.1-1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB 447498 D01 General RF Exposure Guidance v06](#): Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Aug. 10, 2026
Testing commenced on	:	Aug. 10, 2026
Testing concluded on	:	Aug. 24, 2026

2.2 Product Description

Product description:	Automatic Cat Feeder with 3 Bowls WiFi
Model/Type reference:	AFF300-9L-B3-W
Power supply:	Input: DC 5V, 2A Battery: DC 4.5V
Adapter information:	MODEL: KA12C-0502000US INPUT: AC 100–240V, 50/60Hz, 0.35A Max OUTPUT: DC 5V, 2000mA
Testing sample ID:	CTA260810034-1# (Engineer sample) CTA260810034-2# (Normal sample)
2.4G WIFI:	
Supported type:	802.11b/802.11g/802.11n(HT20)/802.11n(HT40)
Modulation:	802.11b: DSSS 802.11g/802.11n(HT20)/802.11n(HT40): OFDM
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:	PCB Antenna
Antenna gain:	1.95dBi
5G WIFI:	
WLAN:	Supported 802.11 a/n
Modulation Type:	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)
Operation frequency:	IEEE 802.11a: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5700MHz, 5745MHz-5825MHz IEEE 802.11n HT20: 5180MHz-5240MHz, 5260MHz-5320MHz, 5500MHz-5700MHz, 5745MHz-5825MHz IEEE 802.11n HT40: 5190MHz-5230MHz, 5270MHz-5310MHz, 5510MHz-5670MHz, 5755MHz-5795MHz
Channel number:	4 Channels for 20MHz bandwidth(5180MHz-5240MHz) 4 Channels for 20MHz bandwidth(5260MHz-5320MHz) 11 Channels for 20MHz bandwidth(5500MHz-5700MHz) 5 channels for 20MHz bandwidth(5745MHz-5825MHz) 2 channels for 40MHz bandwidth(5190MHz-5230MHz) 2 channels for 40MHz bandwidth(5270MHz-5310MHz)

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	5 Channels for 40MHz bandwidth(5510MHz-5670MHz) 2 channels for 40MHz bandwidth(5755MHz-5795MHz)
Antenna type:	PCB Antenna
Antenna gain:	UNII-1: 1.97dBi UNII-2A: 2.64dBi UNII-2C: 2.64dBi UNII-3: -0.76dBi

2.3 Special Accessories

The following is the EUT test of the auxiliary equipment provided by the laboratory:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
/	/	/	/	/	/

2.4 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,
Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

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

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

3.3 Statement of the 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 acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. 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 Shenzhen CTA Testing Technology Co., Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.02 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density	/	0.57 dB	(1)
Spectrum bandwidth	/	1.1%	(1)
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)
Time	/	±2%	(1)

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4 Test limit

4.1 Requirement

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 ²)*	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/Uncontrolled 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

4.2 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

4.3 Conducted Power Results

2.4G WIFI

Type	Channel	Output power PK (dBm)
802.11b	01	13.66
	06	14.28
	11	14.44
802.11g	01	13.97
	06	13.97
	11	14.32
802.11n(HT20)	01	13.89
	06	13.95
	11	14.32
802.11n(HT40)	03	14.11
	06	13.89
	09	14.35

5G WIFI

Type	Channel	Output power PK (dBm)
802.11a	36	10.40
	40	10.74
	48	13.18
802.11n(HT20)	36	10.40
	40	10.62
	48	12.13
802.11n(HT40)	38	10.33
	46	12.24
802.11a	52	12.38
	56	13.29
	64	11.50
802.11n(HT20)	52	12.24
	56	13.13
	64	11.42
802.11n(HT40)	54	12.95
	62	11.38
802.11a	100	11.28
	120	12.11
	140	12.47

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802.11n(HT20)	100	10.46
	120	11.41
	140	12.75
802.11n(HT40)	102	10.36
	118	12.18
	134	11.01
802.11a	149	14.32
	157	11.34
	165	11.64
802.11n(HT20)	149	13.51
	157	11.17
	165	11.26
802.11n(HT40)	151	12.76
	159	12.20

4.4 Manufacturing tolerance

Mode	Max. Peak Conducted Output Power (dBm)	Max. tune-up
2.4G WIFI	14.44	14.0 ± 1
UNII-1	13.18	13.0 ± 1
UNII-2A	13.29	13.0 ± 1
UNII-2C	12.75	13.0 ± 1
UNII-3	14.32	14.0 ± 1

4.5 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 2.2, the RF power density can be obtained.

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
2.4G WIFI	15.0	31.6228	1.95	1.5668	0.0099	1.0000
UNII-1	14.0	25.1189	1.97	1.5740	0.0079	1.0000
UNII-2A	14.0	25.1189	2.64	1.8365	0.0092	1.0000
UNII-2C	14.0	25.1189	2.64	1.8365	0.0092	1.0000
UNII-3	15.0	31.6228	-0.76	0.8395	0.0053	1.0000

Remark:

1. Output power including turn-up tolerance;
2. MPE evaluate distance is 20cm from user manual provide by manufacturer.

4.6 Simultaneous Transmission for MPE Result

N/A

5 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device Threshold per KDB 447498 D01v06

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