

RF EXPOSURE REPORT

Applicant	Zhejiang Fudeer Electric Appliance Co.,ltd.
Address	No.286, Kaifa Avenue, Jiaojiang District, Taizhou City, Zhejiang, China 318000

Manufacturer or Supplier	Zhejiang Fudeer Electric Appliance Co.,ltd.
Address	No.286, Kaifa Avenue, Jiaojiang District, Taizhou City, Zhejiang, China 318000
Product	Digital Electric Smoker
Brand Name	N/A
Model	EKESC30L
Additional Model & Model Difference	27209001.; See item 1
Date of tests	Sep. 02, 2026 ~ Sep. 03, 2026

☒ **FCC Part 2 (Section 2.1091)**
☒ **KDB 447498 D01 V06**
☒ **IEEE C95.1**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

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Date: Sep. 15, 2026

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Test Report No.: FM2607WDG0373

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2607WDG0373	Original release	Sep. 15, 2026

1. CERTIFICATION

FCC ID:	2AYYE-C30L
PRODUCT:	Digital Electric Smoker
BRAND NAME:	N/A
MODEL NO.:	EKESC30L
ADDITIONAL NO.:	27209001
TEST SAMPLE:	Engineering Sample
APPLICANT:	Zhejiang Fudeer Electric Appliance Co.,Ltd.
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01 V06
	IEEE C95.1

Note: The additional models 27209001 is identical with the test model EKESC30L except the model name for marketing purposes.

2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	3	FPC Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BLE 1Mbps	2402-2480	5	+2	3	7
BLE 2Mbps	2402-2480	5	+2	3	7
802.11b	2412-2462	14	+2	12	16
802.11g	2412-2462	14	+2	12	16
802.11n(HT20)	2412-2462	14	+2	12	16
802.11n(HT40)	2422-2452	14	+2	12	16

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BLE 1Mbps	2402	4.90
BLE 2Mbps	2402	4.95
802.11b	2412	13.84
802.11g	2412	13.17
802.11n(HT20)	2412	13.88
802.11n(HT40)	2422	13.79

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
BLE 2402-2480	7	3	20	0.002	1.0
WiFi 2412-2462	16	3	20	0.016	1.0

Note: The BLE and WLAN 2.4GHz can not transmit simultaneously,

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