



Test Report No.: FM2011WSZ0091

RF EXPOSURE REPORT

Applicant	Shenzhen Hypersynes Co.,Ltd.
Address	Floor 5th, 2nd Shanglilang Industry Park, Longgang District, Shenzhen, China PRC

Manufacturer or Supplier	Shenzhen Hypersynes Co.,Ltd.
Address	Floor 5th, 2nd Shanglilang Industry Park, Longgang District, Shenzhen, China PRC
Product	Wireless Food Thermometer
Brand Name	N/A
Model	Pro10
Additional Model & Model Difference	Pro10-1, Pro11, Pro12, Pro 13, Pro14, Pro15
Date of tests	Dec. 01, 2020 ~ Jan. 15, 2021

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

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

Tested by Aaron Liang Project Engineer / EMC Department	Approved by David Huang Supervisor / EMC Department

Date: Jan. 18, 2021

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2011WSZ0091	Original release	Jan. 18, 2021



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1. CERTIFICATION

FCC ID:	2AI4MPRO10
PRODUCT:	Wireless Food Thermometer
BRAND NAME:	N/A
MODEL NO.:	Pro10
ADDITIONAL NO.:	Pro10-1, Pro11, Pro12, Pro 13, Pro14, Pro15
APPLICANT:	Shenzhen Hypersynes Co.,Ltd.
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1



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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

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

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

P_i = 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**.



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5. ANTENNA GAIN

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

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	0	PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT-LE	2402-2480	-5	±2	-7	-3

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT-LE	2402	-3.50

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480	-3	0	20	0.0001	1.0

--- END ---