

TEST REPORT

Product Name : GPS TRACKER FOR CATS
Model Number : HY914
FCC ID : 2AXOF-HY914

Prepared for : Shenzhen Macross Automation Technology Co., Ltd.
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1. TEST RESULT CERTIFICATION

Applicant : Shenzhen Macross Automation Technology Co., Ltd.
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Manufacturer : Shenzhen Macross Automation Technology Co., Ltd.
Address : Room 301-3, #5 Building, Jianghao Technical Park, Bantian St. Longgang District, Shenzhen
Factory : Shenzhen Macross Automation Technology Co., Ltd.
Address : Room 301-3, #5 Building, Jianghao Technical Park, Bantian St. Longgang District, Shenzhen
EUT : GPS TRACKER FOR CATS
Model Name : HY914
Trademark : N/A

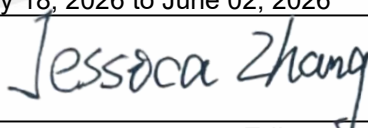
Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 2.1091	PASS

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 2.1091.

The test results of this report relate only to the tested sample identified in this report

Date of Test : May 18, 2026 to June 02, 2026

Prepared by : 
Jessica Zhang /Editor

Reviewer : 
Warren Deng /Supervisor

Approved & Authorized Signer : 
Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2605180101E00102R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	GPS TRACKER FOR CATS
Model Number:	HY914
Sample:	2#
Device Type:	433.92MHz
Modulation:	GFSK for 433.92MHz
Operating Frequency Range(s) :	433.92MHz
Number of Channels:	1 channel for 433.92MHz
Transmit Power Max:	433.92MHz:81.89dBuV@3m
Antenna Type:	Black whip antenna
Antenna Gain:	0.73 dBi
Power supply:	DC 5V from adapter or DC3.85V built-in battery
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

3. Test Requirement:

RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

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
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission 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 = Numeric gain of the antenna relative to isotropic antenna

π =3.1416

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

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the nd total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

One antenna is available for the EUT. The minimum separation distance is 20mm.

4. Measurement Result

Antenna gain:

433.92MHz

Antenna gain: 0.73 dBi

Channel Freq. (MHz)	Max Field Strength (dBuV/m)	peak output power (dBm)	Tune up Power (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Verdict
433.92	81.89	-13.27	-14±1	-13	0.05012	0.0066	1	PASS

According to KDB 447498, no stand-alone required for WIFI antenna, and no simultaneous SAR measurement is required.

*** End of Report ***