



Test Report

Report No.: RKEYS251201767

Date: Jan. 22, 2026

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RF EXPOSURE EVALUATION REPORT

for

Product: 4+2G Built-in Antenna GPS Tracker

Model: ZT-24N, ZT-100, ZT-30, ZT-2, ZT-50O, ZT-24N-mini, ZT-24N-Ultra, ZT-60, ZT-900S

FCC ID: 2BT3D-ZT-24N

Report No.: RKEYS251201767

Issued for

Zhejiang ZenCloud Information Technology Co., Ltd.

**Room 16-3-450, No. 2288 Jiangnan Road, Meixu Sub-district, High-tech Zone, Ningbo City,
Zhejiang Province, China.**

Issued by

Guangdong KEYS Testing Technology Co., Ltd.

**Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong,
China**

Guangdong KEYS Testing Technology Co., Ltd.

Address: Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong, China
Tel: +86-0769-22221088 <http://www.keys-lab.com> E-mail: info@keys-lab.com

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1. TEST CERTIFICATION

Product: 4+2G Built-in Antenna GPS Tracker

Trade mark: ZenTracker

FCC ID: 2BT3D-ZT-24N

Main Model: ZT-24N

Model List(s): ZT-100, ZT-30, ZT-2, ZT-50O, ZT-24N-mini, ZT-24N-Ultra, ZT-60, ZT-900S

Applicant : Zhejiang ZenCloud Information Technology Co., Ltd.

Address: Room 16-3-450, No. 2288 Jiangnan Road, Meixu Sub-district, High-tech Zone, Ningbo City, Zhejiang Province, China.

Manufacturer: Zhejiang ZenCloud Information Technology Co., Ltd.

Address: Room 16-3-450, No. 2288 Jiangnan Road, Meixu Sub-district, High-tech Zone, Ningbo City, Zhejiang Province, China.

Applicable Standards: CFR 47, FCC Part 2.1091

The above equipment has been tested by Guangdong KEYS Testing Technology Co., Ltd. and found compliance with the requirements in the technical standards mentioned above. The test results presented in this report only relate to the product/system tested. The other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.



Prepared by:

Evan Fang/ Engineer



Approved by:

Bruce Zhang / Manager

2. GENERAL INFORMATION

2.1. General Description of E.U.T.

Product Name	4+2G Built-in Antenna GPS Tracker
Main Model	ZT-24N
Specification	GSM, LTE
Operating frequency	GSM 850:824MHz-849MHz(TX) GSM 1900:1850MHz-1908MHz(TX) LTE Band 5:824MHz-849MHz(TX) LTE Band 7:2500MHz-2570MHz(TX)
Modulation Type	GSM/GPRS:GMSK, EGPRS:8PSK LTE:QPSK,16QAM
Antenna installation	Internal Antenna (declared by manufacturer)
Antenna Gain	GSM 850:-0.56dBi GSM 1900:-0.48dBi LTE Band 5:-0.56dBi LTE Band 7:-0.42dBi

Note: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

3. RF EXPOSURE EVALUATION

3.1. Limits

According to ANSI/IEEE C95.1-1992, the criteria listed in Table as below shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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
(B) Limits for General Population/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

3.2. Calculation method

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S: Power density

P: power input to antenna

G: is the antenna gain relative to an isotropic antenna;

R: is the distance from observation point to the antenna

Note:

1) $P = (10^{(dBm/10)})/1000$

2) G (Antenna gain in numeric) = $10^{(Antenna\ gain\ in\ dBi/10)}$

3) $\pi=3.142$

3.3. Test Result

Test mode	Maximum Conducted Output Power(dBm)	Maximum Conducted Tune-up Power(dBm)
GSM850	32.91	33±1dBm
GSM 1900	29.96	30±1dBm
LTE Band 5	23.93	24±1dBm

LTE Band 7	23.92	24±1dBm
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The maximum power density at a distance of 0.2 m is shown as below:

Mode	Frequency (MHz)	Maximum Conducted Tune-up Power (dBm)	Antenna Gain (dBi)	Maximum EIRP(dBm)	Maximum Tune up Power (mW)	Power density (mW/cm ²)	Power density Limit (mW/cm ²)	Result
GSM850	824	34	-0.56	33.44	2208.0047	0.4392	0.549	PASS
GSM 1900	1850	31	-0.48	30.52	1127.1975	0.2242	1	PASS
LTE Band 5	824	25	-0.56	24.44	277.9713	0.0553	0.549	PASS
LTE Band 7	2500	25	-0.42	24.58	287.0781	0.0571	1	PASS

Note:

- 1.For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.
- 2.Chose the maximum power to do MPE analysis.

3.4. Conclusion

According to 47 CFR 2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

**** End of Report ****