

MPE TEST REPORT

Applicant Positec Technology (China) Co., Ltd.
FCC ID 2ASC3WA0935
Product Anti-Theft GPS Tracker
Brand WORX
Model WA0935
Report No. EFTA25120110-IE-07-M1
Issue Date March 26, 2026

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC 47 CFR Part 1 §1.1310, §2.1091**. The test results show that the equipment tested can demonstrate compliance with the requirements as documented in this report.



Prepared by: Wei Fangying



Approved by: Xu Kai

Eurofins TA Technology (Shanghai) Co., Ltd.

Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China

TEL: +86-021-50791141/2/3

FAX: +86-021-50791141/2/3-8000

Table of Contents

1	Test Laboratory	3
1.1	Notes of the Test Report.....	3
1.2	Test Facility.....	3
1.3	Testing Location.....	3
1.4	Laboratory Environment	3
2	Description of Equipment Under Test	4
3	Maximum Tune up and Antenna Gain	6
4	MPE Limit.....	8
5	RF Exposure Evaluation Result.....	10
	ANNEX A: The EUT Appearance	11

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City: Shanghai
Post code: 201201
Country: P. R. China
Contact: Xu Kai
Telephone: +86-021-50791141/2/3
Fax: +86-021-50791141/2/3-8000
Website: <https://www.eurofins.com/electrical-and-electronics>
E-mail: Kain.Xu@cpt.eurofinscn.com

1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25°C
Relative humidity	Min. = 20%, Max. = 80%
Ground system resistance	< 0.5 Ω
Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.	

2 Description of Equipment Under Test

Client Information

Applicant	Positec Technology (China) Co., Ltd.
Applicant address	18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P.R.China
Manufacturer	Positec Technology (China) Co., Ltd.
Manufacturer address	18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P.R.China

General Technologies

EUT Description			
Model	WA0935		
Lab Internal SN	251208-01-007		
Hardware Version	PLS104.1.05		
Software Version	1.10b13		
Frequency	Band	TX (MHz)	RX (MHz)
	GSM 850	824 ~ 849	869 ~ 894
	PCS 1900	1850 ~ 1910	1930 ~ 1990
	LTE-M Band 2	1850 ~ 1910	1930 ~ 1990
	LTE-M Band 4	1710 ~ 1755	2110 ~ 2155
	LTE-M Band 5	824 ~ 849	869 ~ 894
	LTE-M Band 12	699 ~ 716	729 ~ 746
	LTE-M Band 13	777 ~ 787	746 ~ 756
	LTE-M Band 25	1850 ~ 1915	1930 ~ 1995
	LTE-M Band 26	814 ~ 849	859 ~ 894
	LTE-M Band 66	1710 ~ 1780	2110 ~ 2180
	LTE-M Band 85	698 ~ 716	728 ~ 746
	NB-IoT Band 2	1850 ~ 1910	1930 ~ 1990
	NB-IoT Band 4	1710 ~ 1755	2110 ~ 2155
	NB-IoT Band 5	824 ~ 849	869 ~ 894
	NB-IoT Band 12	699 ~ 716	729 ~ 746
	NB-IoT Band 13	777 ~ 787	746 ~ 756
	NB-IoT Band 25	1850 ~ 1915	1930 ~ 1995
	NB-IoT Band 26	814 ~ 849	859 ~ 894

	NB-IoT Band 66	1710 ~ 1780	2110 ~ 2180
	NB-IoT Band 85	698 ~ 716	728 ~ 746
EUT Accessory			
Battery	Manufacturer: Positec Technology (China) Co., Ltd. Model: 1S2PBL1450-0.9		
Date of Testing	December 30, 2025 ~ December 31, 2025		
Date of Sample Received	December 8, 2025		
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. 2. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

3 Maximum Tune up and Antenna Gain

The numeric gain (G) of the antenna with a gain specified in dB is determined by

$$\text{Numeric gain (G)} = 10^{(\text{antenna gain}/10)}$$

According to specification 3GPP TS 51.010, the maximum power of the GSM can do the power reduction for the multi-slot. The allowed power reduction in the multi-slot configuration is as following:

Number of timeslots in uplink assignment	Permissible nominal reduction of maximum output power (dB)
1	0
2	0 to 3,0
3	1,8 to 4,8
4	3,0 to 6,0

Each Tx slots maximum tune up use the most strictest factor for evaluation by making calculation.

So, the theoretical maximum tune up results for GSM band are as follows:

Band		Burst-Averaged output power (adjusted for tune up) (dBm)	Division Factors	Frame-Averaged output power (adjusted for tune up) (dBm)
GSM850	GSM	35.0	-9.03	25.97
	1 Txslot	35.0	-9.03	25.97
	2 Txslots	35.0	-6.02	28.98
	3 Txslots	33.2	-4.26	28.94
	4 Txslots	32.0	-3.01	28.99
GSM1900	GSM	32.0	-9.03	22.97
	1 Txslot	32.0	-9.03	22.97
	2 Txslots	32.0	-6.02	25.98
	3 Txslots	30.2	-4.26	25.94
	4 Txslots	29.0	-3.01	25.99

Note:

Division Factors

To average the power, the division factor is as follows:

1Txslot = 1 transmit time slot out of 8 time slots

=> conducted power divided by (8/1) => -9.03 dB

2Txslots = 2 transmit time slots out of 8 time slots

=> conducted power divided by (8/2) => -6.02 dB

3Txslots = 3 transmit time slots out of 8 time slots

=> conducted power divided by (8/3) => -4.26 dB

4Txslots = 4 transmit time slots out of 8 time slots

=> conducted power divided by (8/4) => -3.01 dB

So, the final maximum tune up results for each frequency band are as follows:

Band	Maximum Tune up Tolerance		Antenna Gain (dBi)	Numeric Gain
	(dBm)	(mW)		
GSM850	28.99	792.50	-9.40	0.11
GSM1900	25.99	397.19	0.77	1.19
LTE-M Band 2	22.00	158.49	0.77	1.19
LTE-M Band 4	22.00	158.49	-1.74	0.67
LTE-M Band 5	22.00	158.49	-9.40	0.11
LTE-M Band 12	22.00	158.49	-7.32	0.19
LTE-M Band 13	22.00	158.49	-8.31	0.15
LTE-M Band 25	22.00	158.49	0.77	1.19
LTE-M Band 26	22.00	158.49	-9.27	0.12
LTE-M Band 66	22.00	158.49	-1.33	0.74
LTE-M Band 85	22.00	158.49	-7.32	0.19
NB-IoT Band 2	22.00	158.49	0.77	1.19
NB-IoT Band 4	22.00	158.49	-1.74	0.67
NB-IoT Band 5	22.00	158.49	-9.40	0.11
NB-IoT Band 12	22.00	158.49	-7.32	0.19
NB-IoT Band 13	22.00	158.49	-8.31	0.15
NB-IoT Band 25	22.00	158.49	0.77	1.19
NB-IoT Band 26	22.00	158.49	-9.27	0.12
NB-IoT Band 66	22.00	158.49	-1.33	0.74
NB-IoT Band 85	22.00	158.49	-7.32	0.19

4 MPE Limit

According to section 1.1310 of FCC 47 CFR Part 1, limits for maximum permissible exposure (MPE) are as following.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) 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
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) 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
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

*f = frequency in MHz. * = Plane-wave equivalent power density.*

Note1. Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational / controlled limits apply provided he or she is made aware of the potential for exposure.

Note2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

The maximum permissible exposure for 300~1500 MHz is $f/1500$, for 1500~100,000MHz is 1.0. So

Band	The Maximum Permissible Exposure (mW/cm ²)
GSM850	0.549
GSM1900	1.000
LTE-M Band 2	1.000
LTE-M Band 4	1.000
LTE-M Band 5	0.549
LTE-M Band 12	0.466
LTE-M Band 13	0.518
LTE-M Band 25	1.000
LTE-M Band 26	0.543
LTE-M Band 66	1.000
LTE-M Band 85	0.465
NB-IoT Band 2	1.000
NB-IoT Band 4	1.000
NB-IoT Band 5	0.549
NB-IoT Band 12	0.466
NB-IoT Band 13	0.518
NB-IoT Band 25	1.000
NB-IoT Band 26	0.543
NB-IoT Band 66	1.000
NB-IoT Band 85	0.465

5 RF Exposure Evaluation Result

RF exposure evaluation method is based on KDB 447498 D01, this calculation is based on the conducted power, maximum power and antenna gain with provides the minimum separation distance. The formula shown below is from OET Bulletin 65 Edition 97-01 Per KDB 447498 D01:

$$S = PG / 4\pi R^2$$

Where: S = power density (in appropriate units, e.g. mW/cm²)

P = Time-average maximum tune up procedure (in appropriate units, e.g., mW)

G = the numeric gain of the antenna

R = distance to the center of radiation of the antenna (20 cm = limit for MPE)

Band	Maximum Tune up (dBm)	Antenna Gain (dBi)	Maximum EIRP (dBm)	PG (mW)	Result (mW/cm ²)	Limit Value (mW/cm ²)	The MPE Ratio
GSM850	28.99	-9.40	19.590	90.991	0.018	0.549	0.033
GSM1900	25.99	0.77	26.760	474.242	0.094	1.000	0.094
LTE-M Band 2	22.00	0.77	22.770	189.234	0.038	1.000	0.038
LTE-M Band 4	22.00	-1.74	20.260	106.170	0.021	1.000	0.021
LTE-M Band 5	22.00	-9.40	12.600	18.197	0.004	0.549	0.007
LTE-M Band 12	22.00	-7.32	14.680	29.376	0.006	0.466	0.013
LTE-M Band 13	22.00	-8.31	13.690	23.388	0.005	0.518	0.009
LTE-M Band 25	22.00	0.77	22.770	189.234	0.038	1.000	0.038
LTE-M Band 26	22.00	-9.27	12.730	18.750	0.004	0.543	0.007
LTE-M Band 66	22.00	-1.33	20.670	116.68	0.023	1.000	0.023
LTE-M Band 85	22.00	-7.32	14.680	29.38	0.006	0.465	0.013
NB-IoT Band 2	22.00	0.77	22.770	189.234	0.038	1.000	0.038
NB-IoT Band 4	22.00	-1.74	20.260	106.170	0.021	1.000	0.021
NB-IoT Band 5	22.00	-9.40	12.600	18.197	0.004	0.549	0.007
NB-IoT Band 12	22.00	-7.32	14.680	29.376	0.006	0.466	0.013
NB-IoT Band 13	22.00	-8.31	13.690	23.388	0.005	0.518	0.009
NB-IoT Band 25	22.00	0.77	22.770	189.234	0.038	1.000	0.038
NB-IoT Band 26	22.00	-9.27	12.730	18.750	0.004	0.543	0.007
NB-IoT Band 66	22.00	-1.33	20.670	116.68	0.023	1.000	0.023
NB-IoT Band 85	22.00	-7.32	14.680	29.38	0.006	0.465	0.013
Note: R = 20cm $\pi = 3.1416$ The MPE Ratio = Mac Result ÷ Limit Value							

This device does not support transmit simultaneously.

Note: For this device, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

*****END OF REPORT *****