

MPE TEST REPORT

Applicant Positec Technology (China) Co., Ltd.
FCC ID 2ASC3KA0197
Product Mapping Cart
Brand KRESS
Model KA0197
Report No. EFTA25070166-IE-07-M1V3
Issue Date February 12, 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.



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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	January 16, 2026
Rev.1	Updated data.	February 3, 2026
Rev.2	Updated data. Updated information.	February 10, 2026
Rev.3	Updated data.	February 12, 2026
Note: This revised report (Report No.: EFTA25070166-IE-07-M1V3) supersedes and replaces the previously issued report (Report No.: EFTA25070166-IE-07-M1V2). Please discard or destroy the previously issued report and dispose of it accordingly.		

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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.
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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	KA0197		
Lab internal SN	250711-23-001		
Hardware Version	PLH100.2.12		
Software Version	5.1.2+5		
Frequency	Band	TX (MHz)	RX (MHz)
	WCDMA B2	1850 ~ 1910	1930 ~ 1990
	WCDMA B4	1710 ~ 1755	2110 ~ 2155
	WCDMA B5	824 ~ 849	869 ~ 894
	LTE Band 2	1850 ~ 1910	1930 ~ 1990
	LTE Band 4	1710 ~ 1755	2110 ~ 2155
	LTE Band 5	824 ~ 849	869 ~ 894
	LTE Band 12	699 ~ 716	729 ~ 746
	LTE Band 13	777 ~ 787	746 ~ 756
	LTE Band 14	788 ~ 798	758 ~ 768
	LTE Band 66	1710 ~ 1780	2110 ~ 2180
	LTE Band 71	663 ~ 698	617 ~ 652
	Wi-Fi 2.4GHz	2412 ~ 2462	2412 ~ 2462
	Bluetooth (Low Energy)	2400 ~ 2483.5	2400 ~ 2483.5
EUT Accessory			
Battery	Manufacturer: Positec Technology (China) Co., Ltd. Model: KAB34 DC 18V, 4Ah		
Date of Testing	November 4, 2025 ~ November 6, 2025		
Date of Sample Received	July 14, 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

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

Band	Maximum Tune up Tolerance		Antenna Gain (dBi)	Numeric Gain
	(dBm)	(mW)		
WCDMA B2	25.00	316.23	0.90	1.23
WCDMA B4	25.00	316.23	0.20	1.05
WCDMA B5	25.00	316.23	-0.90	0.81
LTE Band 2	25.00	316.23	-0.10	0.98
LTE Band 4	25.00	316.23	0.20	1.05
LTE Band 5	25.00	316.23	0.00	1.00
LTE Band 12	25.00	316.23	0.60	1.15
LTE Band 13	25.00	316.23	1.10	1.29
LTE Band 14	25.00	316.23	1.40	1.38
LTE Band 66	25.00	316.23	0.90	1.23
LTE Band 71	25.00	316.23	-3.20	0.48
Wi-Fi 2.4GHz	23.00	199.53	3.19	2.08
Bluetooth (Low Energy)	7.00	5.01	3.19	2.08

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)
WCDMA B2	1.000
WCDMA B4	1.000
WCDMA B5	0.549
LTE Band 2	1.000
LTE Band 4	1.000
LTE Band 5	0.549
LTE Band 12	0.466
LTE Band 13	0.518
LTE Band 14	0.525
LTE Band 66	1.000
LTE Band 71	0.442
Wi-Fi 2.4GHz	1.000
Bluetooth (Low Energy)	1.000

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
WCDMA B2	25.000	0.900	25.900	389.045	0.077	1.000	0.077
WCDMA B4	25.000	0.200	25.200	331.131	0.066	1.000	0.066
WCDMA B5	25.000	-0.900	24.100	257.040	0.051	0.549	0.093
LTE Band 2	25.000	-0.100	24.900	309.030	0.061	1.000	0.061
LTE Band 4	25.000	0.200	25.200	331.131	0.066	1.000	0.066
LTE Band 5	25.000	0.000	25.000	316.228	0.063	0.549	0.115
LTE Band 12	25.000	0.600	25.600	363.078	0.072	0.466	0.155
LTE Band 13	25.000	1.100	26.100	407.380	0.081	0.518	0.156
LTE Band 14	25.000	1.400	26.400	436.516	0.087	0.525	0.165
LTE Band 66	25.000	0.900	25.900	389.045	0.077	1.000	0.077
LTE Band 71	25.000	-3.200	21.800	151.356	0.030	0.442	0.068
Wi-Fi 2.4GHz	23.000	3.190	26.190	415.911	0.083	1.000	0.083
Bluetooth (Low Energy)	7.000	3.190	10.190	10.447	0.002	1.000	0.002
Note: R = 20cm $\pi = 3.1416$ The MPE Ratio = Mac Result÷Limit Value							

This device only supports simultaneous transmission via Wi-Fi 2.4GHz and WWAN or Bluetooth LE and WWAN.

So, the simultaneous transmitting antenna pairs as below:

TER = Wi-Fi 2.4GHz Antenna MPE Ratio + WWAN Antenna MPE Ratio Ratio = 0.083 + 0.165 = 0.248<1

So, the limit is kept.

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 *****