TEST REPORT

Report Number. ..... :	91055-24-72-24-PP005	
Date of issue..... :	Dec. 26, 2024	
Prepared by (+signature)..... :	Pale	Pale Cai
Reviewer (+signature)..... :	Duke	Duke Chen
Approved by (+signature) ..... :	Jason	Jason gao
Testing Laboratory name ..... :	SLG-CPC Testlaboratory Co., Ltd.	
Address..... :	No. 11, Wu Song Road, Dongcheng District, Dongguan, Guangdong Province, China 523117	
Applicant's name ..... :	tala energy ltd.	
Address..... :	25B Vyner Street London E2 9DG United Kingdom	
Manufacturer's name ..... :	tala energy ltd.	
Address..... :	25B Vyner Street London E2 9DG United Kingdom	
Factory's name ..... :	Shenzhen KunHong Electronics Co., Ltd	
Address..... :	Suites 2108-2110, Tower C, Zhuoyue Times Plaza, Bao'an Center, Shenzhen, China	
Standard(s) ..... :	FCC 1.1310：§1.1307(b)	
Test item description ..... :	WAKE	
Trade Mark ..... :	tala	
Model/Type reference ..... :	WAKE-G150-XX-TBL-01-US	
FCC ID ..... :	2A734-WAKE	
Date of receipt of test item..... :	Oct. 11, 2024	
Date (s) of performance of test:	Oct. 12, 2024 to Dec. 19, 2024	
Summary of Test Results ..... :	Pass	
The Summary of Test Results based on a technical opinion belongs to the standard(s).		

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Modified History

Report No.	Revision Date	Summary
91055-24-72-24-PP005	Dec. 26, 2024	Original Report

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1. EUT Specification

Characteristics	Description
Product:	WAKE
Model Number:	WAKE-G150-XX-TBL-01-US (Note: XX represents the color of the lamp body.)
Sample:	1#
Device Type:	2.4G WIFI
Data Rate:	802.11b/g/n(20MHz, 40MHz) for WIFI
Modulation:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n
Operating Frequency Range(s) :	2412-2462MHz for WIFI
Number of Channels:	11 channels for 802.11b/g/n(HT20); 7 Channels for 802.11n(HT40);
Transmit Power Max:	13.586 dBm (0.0006457 W) for WIFI
Antenna Gain:	2.21 dBi for WIFI
Power supply:	Adapter Model: Model No:HPP-U15L05V Input:100V-240V ~50/60Hz 0.5A Max Output: 5V ⎓3A 15W;
Evaluation applied:	☒MPE Evaluation ☐SAR Evaluation

2. Test Requirement:

RF EXPOSURE EVALUATION

According to 447498 D01 V06: 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: Pd= (Pout*G)\ (4*pi*R2)

Where

Pd= Power density in mW/cm^2

Pout=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1416

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

Pd the limit of MPE, $1mW/cm^2$. 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.

3. Measurement Result

Wifi 2.4G
Antenna gain: 2.21 dBi

modulation	Channel Freq. (MHz)	Measured power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Antenna Gain Numeric	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
11b	2412	13.586	±1	14.586	1.66	0.009513	1
	2437	13.148	±1	14.148	1.66	0.008601	1
	2462	13.523	±1	14.523	1.66	0.009376	1
11g	2412	12.522	±1	13.522	1.66	0.007446	1
	2437	12.535	±1	13.535	1.66	0.007468	1
	2462	12.751	±1	13.751	1.66	0.007849	1
11n HT20	2412	11.330	±1	12.330	1.66	0.005659	1
	2437	11.364	±1	12.364	1.66	0.005703	1
	2462	11.555	±1	12.555	1.66	0.005960	1
11n HT40	2422	10.393	±1	11.393	1.66	0.004561	1
	2437	10.087	±1	11.087	1.66	0.004250	1
	2452	10.135	±1	11.135	1.66	0.004298	1

the worst-case situation is 0.009513, which is less than “1”,
This confirmed that the device comply with FCC 1.1310 MPE limit.

*** End of Report ***

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