Shenzhen Most Technology Service Co., Ltd.
No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

TEST REPORT

Report Reference No..... :	**MTEB24100044-H**	
FCC ID..... :	**2AT2V-TB-57-WL**	
Compiled by (position+printed name+signature).. :	File administrators Alisa Luo	
Supervised by (position+printed name+signature).. :	Test Engineer Sunny Deng	
Approved by (position+printed name+signature).. :	Manager Yvette Zhou	
Date of issue..... :	**October 10,2024**	

Representative Laboratory Name. :	**Shenzhen Most Technology Service Co., Ltd.**
Address..... :	No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.
Applicant's name..... :	**Zhongshan Jucar Electronic Technology CO.,LTD**
Address..... :	ROOM 701 ,NO.1 BUILDING,NO 23 WEST OF TONGJI ROAD,NANTOU TOWN,ZHONGSHAN528427,GUANG DONG PROVINCE,CHINA
Test specification/ Standard.....**:**	**47 CFR Part 1.1307** **47 CFR Part 2.1093**
TRF Originator..... :	Shenzhen Most Technology Service Co., Ltd.

Test item description.....:	LED Trailer Light
Trade Mark..... :	NICAR
Model/Type reference..... :	TB-57-WL
Listed Models ..... :	TB-10LED-WL,TB-10LED-WL-01,TB-10LED-WL-L,TB-10LED-WL-R,TB-10LED-US,TB-10LED-AU,TB-10LED CONNIX JPN,TB-56-WL,TRL0002,TRANS-56-EU,TRANS-05,TRANS-01-AU, TRANS-02-AU,TRANS-57-US,TRANS-01-EU,TRANS-03-EU, TB-10LED WL-T,TRANS-56-CUS,TRANS-01-CUS,TRANS-01, TRANS-EC2001,TB-10LED-WL-T-24V,TRANS-04,TRANS-05
Modulation Type..... :	GFSK
Operation Frequency..... :	2409MHz 2448MHz 2470MHz
Hardware version..... :	V2.0
Software version ..... :	APP_V036
Rating..... :	DC 12V
Result..... :	**PASS**

T E S T R E P O R T

Equipment under Test	:	LED Trailer Light
Model /Type	:	TB-57-WL
Listed Models	:	TB-10LED-WL,TB-10LED-WL-01,TB-10LED-WL-L,TB-10LED-WL-R,TB-10LED-US,TB-10LED-AU,TB-10LED CONNIX JPN,TB-56-WL,TRL0002,TRANS-56-EU,TRANS-05,TRANS-01-AU, TRANS-02-AU,TRANS-57-US,TRANS-01-EU,TRANS-03-EU, TB-10LED WL-T,TRANS-56-CUS,TRANS-01-CUS,TRANS-01, TRANS-EC2001,TB-10LED-WL-T-24V,TRANS-04,TRANS-05
Remark		Only the model name is different.
Applicant	:	Zhongshan Jucar Electronic Technology CO.,LTD
Address	:	ROOM 701 ,NO.1 BUILDING,NO 23 WEST OF TONGJI ROAD,NANTOU TOWN,ZHONGSHAN528427,GUANG DONG PROVINCE,CHINA
Manufacturer	:	Zhongshan Jucar Electronic Technology CO.,LTD
Address	:	ROOM 701 ,NO.1 BUILDING,NO 23 WEST OF TONGJI ROAD,NANTOU TOWN,ZHONGSHAN528427,GUANG DONG PROVINCE,CHINA

Test Result:	**PASS**

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2024.10.10	Initial Issue	Alisa Luo

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06
4.3.1. Standalone SAR test exclusion considerations
Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
f(GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation[17]
The result is rounded to one decimal place for comparison
The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

2.1.3 EUT RF Exposure

EIRP =PT*GT= $(E \times D)^2 /30$
where:
PT = transmitter output power in watts,
GT = numeric gain of the transmitting antenna (unitless),
E = electric field strength in V/m, ---$10^{(dB\mu V/m)/20)}/10^6$,
D = measurement distance in meters (m)---3m,
So PT = $(E \times D)^2 /30$ / GT

The worst case (refer to report **MTEB24100044-R**) is below:

For 2470MHz wireless:
Field strength=79.43dBuV/m
Ant gain:1.81dBi;so Ant numeric gain=1.52

EIRP = PT*GT = $(E \times D)^2 /30=(10^{(dB\mu V/m)/20)}/10^6*3)^2/30=0.0000261$
So PT= EIRP/GT=0.0000172W=0.0172mW
So(0.0172mW/5mm)* $\sqrt{}$2.470GHz=0.0054

exclusion=0.0057<3.0 for 1-g SAR

So the SAR report is not required.