Shenzhen Most Technology Service Co., Ltd.
East A, 1 Floor of New Aolin Factory Building, Langshan Erlu North District, Hi-Tech Industry Park, Nanshan, Shenzhen, Guangdong, People's Republic of China

TEST REPORT

FCC Rules Part 15.231e

Report Reference No..... :	**MTEB24010262-H**
FCC ID..... :	**2A9G9-HD965**
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..... :	**Jan. 25,2024**
Representative Laboratory Name. :	**Shenzhen Most Technology Service Co., Ltd.**
Address..... :	East A, 1 Floor of New Aolin Factory Building, Langshan Erlu North District, Hi-Tech Industry Park, Nanshan, Shenzhen, Guangdong, People's Republic of China
Applicant's name..... :	**Thin Air Brands, LLC**
Address..... :	5332 Talavero Place, Parker, CO 80134, USA
Test specification/ Standard.....:	**47 CFR Part 1.1307** **47 CFR Part 2.1093**
TRF Originator..... :	Shenzhen Most Technology Service Co., Ltd.

Test item description.....:	**Hyper Drive Light & Sound RC**
Trade Mark..... :	N/A
Model/Type reference..... :	HD965
Listed Models ..... :	N/A
Modulation Type..... :	GFSK
Operation Frequency..... :	2410-2473MHz
Hardware version :	V1.0
Software version :	V1.0
Rating :	**DC 3V by AA*2**
Result..... :	**PASS**

T E S T R E P O R T

Equipment under Test	:	Hyper Drive Light & Sound RC
Model /Type	:	HD965
Listed Models	:	N/A
Remark		N/A
Applicant	:	**Thin Air Brands, LLC**
Address	:	5332 Talavero Place, Parker, CO 80134, USA
Manufacturer	:	**/**
Address	:	/

Test Result:	**PASS**

Contents

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2024.01.25	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 MTEB24010262-R) is below:

Antenna polarization: Horizontal		
Frequency (MHz)	Level (dBuV/m)	Polarization
2410	83.13	Peak
2410	62.01	Average

Antenna polarization: Vertical		
Frequency (MHz)	Level (dBuV/m)	Polarization
2410	83.35	Peak
2410	62.73	Average

For 2410MHz wireless:
Field strength=83.35dBuV/m
Ant gain:0dBi;so Ant numeric gain=1

EIRP = PT*GT = $(E \times D)^2 /30=(10^{(dB\mu V/m)/20)}/10^6*3)^2/30=0.0000649W$
So PT= EIRP/GT=0.0000649W/1*1000=0.0649mW
So(0.0649mW/5mm)* √2.410GHz=0.02015
exclusion=0.02015<3.0 for 1-g SAR

So the SAR report is not required.