MPE Test Report

Report No.: JVP-19JY1211VTSHP-1

FCC ID: **2ATZ2-LX010242**

Product: Luggage tracker

Model: LX010242TNBRF

Received Date: Jul.11, 2019

Test Date: Jul.15 to Jul.17, 2019

Issued Date: Jul.31, 2019

Applicant: TOWN&COUNTRY LIVING CORP

Address: RM 1201-1204,City Point,No.1600.Zhong Hua Rd

Manufacturer: Shenzhen Joyway Technology Co.,Ltd

Address: Room1417,Noble Plaza,269#,Qianjin 1 Road,Wenhui Community,Xin'an Street,Bao'an District.

Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

Lab Address: No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)

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Release Control Record

Issue No.	Description	Date Issued
LGD-19AP1259VTSHPB-2	Original release	Jul.31, 2019

1 Certificate of Conformity

Product: Luggage tracker

Brand: --

Model: LX010242TNBRF

Applicant: TOWN&COUNTRY LIVING CORP

Test Date: Jul.15 to Jul.17, 2019

Standards: FCC Part 2 (Section 2.1091)
KDB 447498 D01 General RF Exposure Guidance v06
IEEE C95.1-1992
RSS-102 Issue 5 (2015-03)

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Will Yan , **Date:** Jul.31, 2019

Will YAN

Project Engineer

Approved by : , **Date:** Jul.31, 2019

Daniel SUN

RF Supervisor

2 General Information

2.1 General Description of EUT

Product	Luggage tracker
Brand	--
Test Model	LX010242TNBRF
Model Difference	--
Power Rating	By Battery/DC 3.3V
Modulation Type	GFSK
Modulation Technology	Bluetooth Low Energy 4.2
Operating Frequency	2402 ~ 2480MHz
Number of Channel	40
Antenna Type	Ceramics Antenna
Antenna Connector	--
Antenna Gain	1.8dBi

Note: For more details, please refer to the User's manual of the EUT.

3 RF Exposure

3.1 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 (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1,500	-	-	F/1500	30
1,500-100,000	-	-	1.0	30

F = Frequency in MHz

3.2 MPE Calculation Formula

Power density (S) is calculated according to the formula:

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

Where S = power density in mW/cm^2

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

3.3 MPE Calculation Formula

The antenna of this product, under normal use condition, is at least 20cm from the body of the user. So the device is classified as Mobile Device.

3.4 Calculation Result of Maximum Permissible Exposure

Frequency Band (MHz)	Max. Conducted output power(dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
2402-2480	-8.51	1.8	20	0.000042457	1

Conclusion:

The calculation result of MPE is less than the limit.

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