RF Exposure Evaluation Report

Applicant:	Todos Industrial Limited
Address of Applicant:	Room 308, building A3, Fuhai information port, Fuhai street, Bao'an District

Equipment Under Test (EUT)

Product Name:	Baby Anti Abandonment Car Seat Pad
Model No.:	Hiup Baby Car Seat H6, TBSAV-3D, 54102 - BABY CAR SEAT ALERT PAD, Hiup Key H6, A1, A2, A3, AX, B1, B2, B3, BX, C1, C2, C3, CX. (X can be " 0-9", "a--z")
Trade mark:	hiup, Tamotsu, Aprix, Todos
FCC ID:	2AZQ6-SEATH6
Applicable standards:	FCC CFR Title 47 Part 2 Subpart J Section 2.1091
Date of sample receipt:	17 Feb., 2022
Date of Test:	18 Feb., to 27 Apr., 2022
Date of report issue:	27 Apr., 2022
Test Result:	PASS*

Authorized Signature:

Bruce Zhang
Laboratory Manager

2 Version

Version No.	Date	Description
00	*27 Apr., 2022*	*Original*

Tested by: Mike.ou ***Date:*** *27 Apr., 2022*

Test Engineer

Reviewed by: Winner Zhang ***Date:*** *27 Apr., 2022*

Project Engineer

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4 General Information

4.1 Client Information

Applicant:	Todos Industrial Limited
Address:	Room 308, building A3, Fuhai information port, Fuhai street, Bao'an District
Manufacturer:	TODOS INDUSTRIAL LIMITED
Address:	FLAT/RM 504 5/F HO KING COMMERCIAL CENTRE 2-16 FA YUEN STREET MONG KOK KL

4.2 General Description of E.U.T.

Product Name:	Baby Anti Abandonment Car Seat Pad
Model No.:	Hiup Baby Car Seat H6, TBSAV-3D, 54102 - BABY CAR SEAT ALERT PAD, Hiup Key H6, A1, A2, A3, AX, B1, B2, B3, BX, C1, C2, C3, CX. (X can be „ 0-9“, „a—z“)
Operation Frequency :	BLE: 2402MHz~2480MHz
Modulation technology:	BLE: GFSK
Antenna Type :	Internal Antenna
Antenna gain :	BLE: 3.0 dBi
Remark :	Model No.: Hiup Baby Car Seat H6, TBSAV-3D, 54102 - BABY CAR SEAT ALERT PAD, Hiup Key H6, A1, A2, A3, AX, B1, B2, B3, BX, C1,C2, C3, CX. (X can be " 0-9", "a--z") were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

4.3 Operating Modes

Operating mode	Detail description
BLE mode	Keep the EUT in continuously transmitting in BLE mode

4.4 Additions to, deviations, or exclusions from the method

No

4.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

4.6 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info-JYTee@lets.com, Website: http://jyt.lets.com

5 Technical Requirements Specification in FCC CFR Title 47 Part 2.1091

5.1 Limits

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)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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
300–1500			f/300	6
1500–100,000			5	6
(B) 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
300–1500			f/1500	30
1500–100,000			1.0	30

5.2 Test Procedure

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna

5.3 Result

Frequency (MHz)	Maximum Output power (dBm)	Maximum Output power (mW)	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Result (mW/cm^2)	Limits for General Population/ Uncontrolled Exposure (mW/cm^2)
BLE mode							
2402	-2.62	0.55	3.0	2.0	20.00	0.0002	1.0

Note: Just the worst case mode was shown in report.

5.4 Conclusion

The device is exempt from the SAR test and satisfies RF exposure evaluation.

------End of report------