

Delta Enterprise Inc. d/b/a Delta Children's Products LLC

MPE ASSESSMENT REPORT

Report Type:

FCC MPE assessment report

Model:

37232

REPORT NUMBER:

210102695SHA-002

ISSUE DATE:

Mar 23, 2021

DOCUMENT CONTROL NUMBER:

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Report no.: 210102695SHA-002

Applicant: Delta Enterprise Inc. d/b/a Delta Children's Products LLC

114 W 26th St NYC NY 10001 USA

Manufacturer: Delta Enterprise Inc. d/b/a Delta Children's Products LLC

114 W 26th St NYC NY 10001 USA

Manufacturing site: Worldfaith Baby Products (Jiashan) Co.,Ltd.

No.3, Dujuan Rd, Dayun Economic Development Zone, Jiashan

County, Zhejiang Province, P.R.China Post Code: 314113

FCC ID: 2AY6Q-37232WIFI

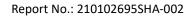
SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06 FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:	REVIEWED BY:		
Teddy yin	Duniel 2how		
Project Engineer	 Reviewer		
Teddy Yin	Daniel Zhao		

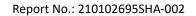
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Revision History

Report No.	Version	Description	Issued Date
210102695SHA-002	Rev. 01	Initial issue of report	Mar 23, 2021





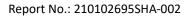
1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	WiFi Music box	
Type/Model:	37232	
Description of EUT:	The EUT is music box with WIFI function.	
Rating:	DC 5.8V, 1A	
Category of EUT:	Class B	
EUT type:	☐ Table top ☐ Floor standing	
Software Version:	/	
Hardware Version:	/	
Sample received date:	Feb 2, 2021	
Date of test:	Feb 2~Mar 10, 2021	

1.2 Technical Specification

Frequency Range:	2412MHz ~ 2462MHz		
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20		
	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)		
	IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK)		
Type of Modulation:	IEEE 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK)		
Channel Number:	11 Channels for 802.11b, 802.11g and 802.11n(HT20)		
	IEEE 802.11b: Up to 11 Mbps		
	IEEE 802.11g: Up to 54 Mbps		
Data Rate:	IEEE 802.11n-HT20: Up to MCS7		
Channel Separation:	5 MHz		
Antenna Information:	3.0 dBi, PCB antenna		

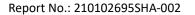




1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is	CNAS Accreditation Lab
recognized,	Registration No. CNAS L0139
certified, or	FCC Accredited Lab
accredited by these	
organizations:	Designation Number: CN1175
o e	IC Registration Lab
	CAB identifier.: CN0051
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02





2 MPE Assessment

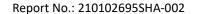
Test result: Pass

2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

Frequency range	E-field strength	H-field strength	B-field	Equivalent plane wave
	(V/m)	(A/m)	(uT)	power density
				S _{eq} (W/m²)
0-1 Hz	-	$3,2 \times 10^4$	4×10^{4}	-
1-8 Hz	10 000	$3.2 \times 10^4/f^2$	$4 \times 10^4/f^2$	-
8-25 Hz	10 000	4 000/f	5 000/f	-
0,025-0,8 kHz	250/f	4/f	5/f	-
0,8-3 kHz	250/f	5	6,25	-
3-150 kHz	87	5	6,25	-
0,15-1 MHz	87	0,73/f	0,92/f	-
1-10 MHz	87/f ^{1/2}	0,73/f	0,92/f	-
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	1,375 f ^{1/2}	0,0037 f ^{1/2}	0,0046 f ^{1/2}	f/200
2-300 GHz	61	0,16	0,20	10

Mobile device exposure for simultaneous transmission operations: the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0





2.2 Assessment Results

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

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

Where $S = power density in mW/cm^2$

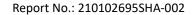
P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 210102695SHA-001: The maximum radiated power = 16.09dBm = 40.64 mW; Here R is chosen to be 20cm,

 $S = PG / (4\pi R^2) = 40.64 / (4 * 3.14 * 20 * 20) = 0.0081 \text{mW/cm}^2 < 1 \text{ mW/cm}^2$





Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.