

TEST REPORT

Product Name : Smart kids sonic electric toothbrush
Brand Mark : infly
Model No. : T20040XIN
FCC ID : 2AW76-T20040XIN
Report Number : BLA-EMC-202109-A3303
Date of Sample Receipt : 2021/9/10
Date of Test : 2021/9/10 to 2021/9/23
Date of Issue : 2021/9/23
Test Standard : 47 CFR Part 15, Part1.1307
47 CFR Part 15, Part2.1093
KDB447498D01 General RF Exposure
Guidance v06
Test Result : Pass

Prepared for:

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REPORT REVISE RECORD

Version No.	Date	Description
00	2021/9/23	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB447498D01 General RF Exposure Guidance v06	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

2 GENERAL INFORMATION

Applicant	Dongguan Infly Life Technology Co.,Ltd.
Address	Room 202, Block 1, No.36 Caixin Road, Daojiao Town, Dongguan, Guangdong, China
Manufacturer	Dongguan Infly Life Technology Co.,Ltd.
Address	Room 202, Block 1, No.36 Caixin Road, Daojiao Town, Dongguan, Guangdong, China
Factory	Dongguan Infly Life Technology Co.,Ltd.
Address	Room 202, Block 1, No.36 Caixin Road, Daojiao Town, Dongguan, Guangdong, China
Product Name	Smart kids sonic electric toothbrush
Test Model No.	T20040XIN

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	N/A
Software Version	N/A
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	0.5dBi

4 TEST MODE

TEST MODE	TEST MODE DESCRIPTION
Transmitting mode	Keep the EUT in continuously transmitting mode with modulation.
Remark: Full battery is used during all test except ac conducted emission.	

5 LABORATORY LOCATION

All tests were performed at: BlueAsia of Technical Services(Shenzhen) Co., Ltd. Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District, Shenzhen, Guangdong Province, China Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673 No tests were sub-contracted.

6 RF EXPOSURE COMPLIANCE REQUIREMENT

6.1 STANDARD REQUIREMENT

According to KDB447498D01 General RF Exposure Guidance v06

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.

6.2 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:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

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

6.3 EUT RF EXPOSURE

Operational Mode:LE						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
2402 MHZ	-1.37	±1	-0.37	0.92	0.28	3.0
2441 MHz	-1.779	±1	-0.779	0.84	0.26	
2480 MHz	-1.825	±1	-0.825	0.83	0.26	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

----END OF REPORT----

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