TEST REPORT

Product Name	:	LOFLICK 100 Triple Mode Connection Mechanical Keyboard
Brand Mark	:	LOFREE
Model No.	:	OE903
FCC ID	:	2AC59-OE903
Report Number	:	BLA-EMC-202204-A5503
Date of Sample Receipt	:	2022/4/19
Date of Test	:	2022/4/19 to 2022/4/29
Date of Issue	:	2022/4/29
Test Standard	:	47 CFR Part 1.1307, Part 2.1093, KDB 447498
Test Result	:	Pass

Prepared for:

SHENZHEN LOFREE CULTURE CO.,LTD
F8 Building, F518 IDEA LAND, Baoyuan Road, Xixiang, Baoan District, Shenzhen, China

Prepared by:

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Compiled by: Review by:

Approved by: Date: 2022/4/29

REPORT REVISE RECORD

Version No.	Date	Description
00	2022/4/29	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, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	Pass

2 GENERAL INFORMATION

Applicant	SHENZHEN LOFREE CULTURE CO.,LTD
Address	F8 Building，F518 IDEA LAND，Baoyuan Road，Xixiang，Baoan District, Shenzhen，China
Manufacturer	SHENZHEN LOFREE CULTURE CO.,LTD
Address	F8 Building，F518 IDEA LAND，Baoyuan Road，Xixiang，Baoan District, Shenzhen，China
Factory	ZHUHAI HENGCANG ELECTRONIC TECHNOLOGY CO., LTD.
Address	Floor3, Plant Building A, No.7 Pingxi Road III, Nanping Technology Industrial Park,Zhuhai City, Guangdong Province, China
Product Name	LOFLICK 100 Triple Mode Connection Mechanical Keyboard
Test Model No.	OE903

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	OE903_V2_210926
Software Version	F.Nor52832.LFSZBD022-100kH_v01.01
Battery Power supply	DC4.5V

Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	1.87dBi(Provided by the applicant)

4 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.

5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 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.

5.2 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

5.3 EUT RF EXPOSURE

Operational Mode: BLE						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
2402 MHz	-0.245	±1	0.755	1.19	0.37	3.0
2442 MHz	-0.991	±1	0.009	1.00	0.31	
2480 MHz	-1.42	±1	-0.42	0.91	0.29	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

----END OF REPORT----