

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

RF Exposure Evaluation Report

Report Reference No....... MTEB24070388-H
FCC ID..........: 2BHVQ-IMMERSIONA3

Compiled by

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Date of issue...... July 26,2024

Representative Laboratory Name.: Shenzhen Most Technology Service Co., Ltd.

Nanshan, Shenzhen, Guangdong, China.

Applicant's name...... Shenzhen Hexgears Technology Co.,Ltd

No. 1407, 14th Floor, Building 4, Excellence Meilin Center Plaza

Sunny Deng Jutter

Shenzhen, China

Test specification/ Standard: 47 CFR Part 1.1307

47 CFR Part 2.1093

TRF Originator...... Shenzhen Most Technology Service Co., Ltd.

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Test item description Immersion A3 Three-Mode Low-Profile Mechanical Keyboard

Trade Mark HEXGEARS

Model/Type reference Immersion A3

> KA3RO80T202407E,KA3RO80L202407E,KA3RO80C202407E KA3SY80T202407E,,KA3SY80L202407E,KA3SY80C202407E

KA3PBK108T202407E,KA3PBK108L202407E,KA3PBK108C202407E KA3PRO108T202407E,KA3PRO108L202407E,KA3PRO108C202407E KA3PSY108T202407E,KA3PSY108L202407E,KA3PSY108C202407E

Modulation Type GFSK

Operation Frequency...... From 2402MHz to 2480MHz

Rating DC 3.7V by Battery

DC 5V by USB Port

Result..... PASS

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TEST REPORT

Equipment under Test : Immersion A3 Three-Mode Low-Profile Mechanical Keyboard

Model /Type : Immersion A3

KA3BK80T202407E,KA3BK80L202407E,KA3BK80C202407E KA3RO80T202407E,KA3RO80L202407E,KA3RO80C202407E

KA3SY80T202407E,,KA3SY80L202407E,KA3SY80C202407E

Listed Models : KA3PBK108T202407E,,RA3ST80L202407E,RA3ST80L202407E

KA3PRO108T202407E,KA3PRO108L202407E,KA3PRO108C202407E KA3PSY108T202407E,KA3PSY108L202407E,KA3PSY108C202407E

Remark It's just that the product models are called differently

Applicant : Shenzhen Hexgears Technology Co.,Ltd

No. 1407, 14th Floor, Building 4, Excellence Meilin Center

Address : Plaza North, Zhongkang Road, Meilin Street, Futian District,

Shenzhen, China

Manufacturer : Dongguan City Greatiny Electronics Technology Co.,Ltd.

Address : Room 201,Building 2,No.170 Qingxi Xiangshan Road,Qingxi Town,

Dongguan City ,Guangdong,China

Test Result:	PASS

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2024.07.26	Initial Issue	Alisa Luo

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2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. 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.

2.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 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 calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 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

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2.1.3 EUT RF Exposure

Measurement Data

BLE

		GFSK		
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power (dBm)	
	(dBm)	(dBm)		
Lowest(2402MHz)	1.845	1.845±1	2.845	
Middle(2440MHz)	2.364	2.364±1	3.364	
Highest(2480MHz)	2.762	2.762 ± 1	3.762	

Worst case: GFSK						
Channel	Maximum Peak annel Conducted Output	Maximum tune-up Power		Calculated	Exclusion	SAR Test
	Power (dBm)	(dBm)	(mW)	value	threshold	Exclusion
Highest(2480MHz)	2.762	3.762	2.38	0.75	3.0	Yes

	THE END OF REPORT.	
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