

RF Exposure Evaluation Report

Product : H3000 Bluetooth Headset - Over Ear
Trade mark : Kensington
Model/Type reference : M01584-H
Serial Number : N/A
Report Number : EED32O80799102
FCC ID : GV3M01584-H
Date of Issue : Sep. 23, 2022
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure
Guidance v06
Test result : PASS

Prepared for:

ACCO Brands, Inc.

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Prepared by:

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2 Version

Version No.	Date	Description
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4 General Information

4.1 Client Information

Applicant:	ACCO Brands, Inc.
Address of Applicant:	4 Corporate Drive, Lake Zurich, Illinois 60047, USA
Manufacturer:	ACCO Brands, Inc.
Address of Manufacturer:	4 Corporate Drive, Lake Zurich, Illinois 60047, USA
Factory:	Dongguan 3e Electronics LTD
Address of Factory:	No.20, Shiji Road, Houjie, Dongguan, Guangdong, China

4.2 General Description of EUT

Product Name:	H3000 Bluetooth Headset - Over Ear
Model No.(EUT):	M01584-H
Trade Mark:	Kensington

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Test Power Grade:	Default
Test Software of EUT:	RTLBTAPP
Antenna Type:	PCB Antenna
Antenna Gain:	-0.96 dBi
Power Supply:	Battery 3.7V 600mAh/2.22Wh
Max Conducted Peak Output Power:	3.92dBm
	The Max Conducted Peak Output Power data refer to the report EED32O80799101
Sample Received Date:	Jul.08, 2022
Sample tested Date:	Jul.18, 2022 to Aug.18, 2022

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 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.

5.1.2 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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 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

5.1.3 EUT RF Exposure

1) For Bluetooth Classic

Measurement Data:

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	3.18	1.5±2	3.5	2.239
Middle(2441MHz)	3.05	1.5±2	3.5	2.239
Highest(2480MHz)	1.53	1.5±2	3.5	2.239

$\pi/4$ DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	3.27	2.5±1	3.5	2.239
Middle(2441MHz)	3.40	2.5±1	3.5	2.239
Highest(2480MHz)	2.62	2.5±1	3.5	2.239

8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	3.75	3±1	4	2.512
Middle(2441MHz)	3.92	3±1	4	2.512
Highest(2480MHz)	3.10	3±1	4	2.512

Worst case is: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	3.75	3±1	4	2.512	0.779	3.0
Middle (2441MHz)	3.92	3±1	4	2.512	0.785	
Highest (2480MHz)	3.10	3±1	4	2.512	0.791	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32O80799101.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32O80799101 for EUT external and internal photos.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***