

RF Exposure Evaluation Report

Report Reference No......: **MTEB24070087 -H**

FCC ID.....: **2BG42-ALYAWH**

Compiled by

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Date of issue.....: **July 05,2024**

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

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Applicant's name.....: **PC-coolers SRL**

Address: Matei Basarab 98th street, 86th block, 3rd district, Bucharest,
Romania

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: ALYA Wireless Headset

Trade Mark: AQIRYS

Model/Type reference.....: ALYA Wireless Headset

Listed Models: ALYA Wireless Headset Black ,ALYA Wireless Headset White

Modulation Type: GFSK, $\pi/4$ DQPSK,8DPSK

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

Hardware Version.....: G7-2.4-REV4 20231121

Software Version: [20230614][RTL8763BFR
V1.0.23.17.14]MP_HG9070W_V05

Rating: DC 3.7V by Battery
Input: DC 5V

Result.....: PASS

TEST REPORT

Equipment under Test : ALYA Wireless Headset

Model /Type : ALYA Wireless Headset

Listed Models : ALYA Wireless Headset Black ,ALYA Wireless Headset White

Remark : The color of the product is different

Applicant : **PC-coolers SRL**

Address : Matei Basarab 98th street, 86th block, 3rd district, Bucharest, Romania

Manufacturer : **PC-coolers SRL**

Address : Matei Basarab 98th street, 86th block, 3rd district, Bucharest, Romania

Test Result:	PASS
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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.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2024.07.05	Initial Issue	Alisa Luo

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 ≤ 50 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \left[\sqrt{f(\text{GHz})} \right]$$

 ≤ 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

2.1.3 EUT RF Exposure

Measurement Data

BLE

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	2.292	2.292 ± 1	3.292
Middle(2440MHz)	1.997	1.997 ± 1	2.997
Highest(2480MHz)	-0.868	-0.868 ± 1	0.132

Worst case: GFSK

Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Lowest(2402MHz)	2.292	3.292	2.13	0.65	3.0	Yes

EDR

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-1.041	-1.041 ± 1	-0.041
Middle(2441MHz)	-0.784	-0.784 ± 1	0.216
Highest(2480MHz)	-0.962	-0.962 ± 1	0.038

 $\pi/4$ DQPSK

Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-0.147	-0.147 ± 1	0.853
Middle(2441MHz)	0.093	0.093 ± 1	1.093
Highest(2480MHz)	-0.090	-0.090 ± 1	0.91

8DPSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power
			(dBm)
Lowest(2402MHz)	-0.010	-0.010 ± 1	0.99
Middle(2441MHz)	0.330	0.330 ± 1	1.33
Highest(2480MHz)	0.187	0.187 ± 1	1.187

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Middle(2441MHz)	0.330	1.33	1.36	0.42	3.0	Yes

.....THE END OF REPORT.....