

RF EXPOSURE REPORT



Applicant: Darfon Electronics Czech s.r.o.
Turanka 1315/112, 627 00 Brno, Czech Republic.

Product Name: Headset

Brand Name: QPAD

Model No.: QH-900

Model Difference: N/A

Report Number: E2/2021/30048

FCC ID 2AZDI-QH-900

Issue Date: Jun30 ,2021

Date of EUT Received: Jan.04 , 2021

Approved By _____

John Yeh

We hereby certify that:

The above equipment was evaluate by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1093.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Report Number	Revision	Description	Issue Date	Revised By
E2/2021/30048	Rev.00	Original	Jun 30,2021	Viola Su

Note:

- 1、Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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Table of Contents

1	DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	4
1.1	Product Description	4
1.2	Antenna Information:	4
2	FCC Standard applicable	5
2.1	FCC Standard Applicable:	5
2.2	Measurement Result:	5

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	Headset
Brand Name:	QPAD
Model No.:	QH-900
Model Difference:	N/A
Hardware Version:	R0C
Firmware Version:	1.0.3
EUT Series No.:	N/A
Power Supply:	3.7 Vdc Li-ion Polymer Battery

1.2 Antenna Information:

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PCB	N/A	N/A	2402~2480	3.1

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2 FCC STANDARD APPLICABLE

2.1 FCC Standard Applicable:

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission’s guideline.

As per KDB 447498 D01 4.3.1,

Step a: For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

$$[\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g Head \& Body SAR and } \leq 7.5 \text{ for 10-g extremity Hand SAR, where}$$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in **step b)** below

Step b: For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):

$$1) \{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)]\} \text{ mW, for 100 MHz to 1500 MHz}$$

$$2) \{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\} \text{ mW, for } > 1500 \text{ MHz and } \leq 6 \text{ GHz}$$

2.2 Measurement Result:

Step a:					
This is a portable device and the max. output power including tune-up tolerance is 9.484 (mW), lower than the threshold given and derived as formula given above, where					
$= 9.484(\text{mW}) / 5(\text{mm}) \cdot \sqrt{2.48(\text{GHz})} = 2.987 < 3.0$					
Frequency (MHz)	Max. output power including tune-up tolerance (dBm)	Max. output power including tune-up tolerance (mW)	Distance (mm)	Result	≤ 3.0 for 1-g SAR
2480	9.77	9.484	5	2.987	TRUE

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As the result of calculation result indicates, the RF exposure generating from given transmitter (transmitter employed digital modulation) can be excluded from SAR measurement, and is deemed compliant with RF exposure as per FCC.

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