

SAR Exclusion Report

FCC Rule Part : CFR §2.1093

Standards : IEEE Std 1528:2013, KDB 865664 D01 v01r04, KDB 865664 D02 v01r02,

KDB 447498 D04 Interim General RF Exposure Guidance v01

Report No. : SFCICG-WTW-P24080537

Applicant : HP Inc.

Address : 3390 East Harmony Road, Fort Collins, Colorado United States 80528

Product Name : Wireless Headset

Brand Name : HYPERX

FCC ID : B94-HXHS243

Model No. : HXHS243

Sample Received Date : Aug. 21, 2024

Date of Evaluation : Sep. 30, 2024

Lab Address : No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location : No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City, Taiwan

FCC Accredited No. : TW0003

CERTIFICATION: The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch – Lin Kou Laboratories**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by TAF or any government agencies.

Prepared By:

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Approved By:

Gordon Lin / Manager



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Release Control Record

| Issue No. | Reason for Change | Date Issued |
|----------------------|-------------------|---------------|
| SFCICG-WTW-P24080537 | Initial release | Oct. 29, 2024 |
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1. Test Reference Guidance

FCC Rule Part : CFR §2.1093

Measurement procedure : IEEE Std 1528:2013, KDB 865664 D01 v01r04, KDB 865664 D02 v01r02,

KDB 447498 D04 Interim General RF Exposure Guidance v01

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2. Summary of Maximum SAR Value

| Equipment Class | Mode | Highest Reported SAR _{1g} (W/kg) |
|--------------------|---------------|---|
| DTS | Bluetooth/SRD | Not Required |

Note:

1. The SAR limit (Head & Body: SAR_{1g} 1.6 W/kg) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.

Test Reference Guidance: FCC-19-126

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3. <u>Description of Equipment Under Test</u>

| EUT Type | Wireless Headset | |
|-----------------------------------|---|--|
| Brand Name | HYPERX | |
| FCC ID | B94-HXHS243 | |
| Model Name | HXHS243 | |
| Tx Frequency Bands (Unit: MHz) | Bluetooth/SRD : 2402 ~ 2480 | |
| | Bluetooth : GFSK, π/4-DQPSK, 8-DPSK BT SRD : GFSK, π/4-DQPSK | |
| I/\ntonna I\/no | PIFA Antenna (Peak Antenna Gain: 3.66 dBi) | |
| EUT Stage | Engineering Sample | |

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4. SAR Measurement Evaluation

4.1 Maximum Output Power

The maximum conducted power (Unit: dBm) including tune-up tolerance is shown as below.

| Bluetooth | | | | | |
|-----------|-------------------------|------|-----------------------|--|--|
| Mode | Channel Frequency (MHz) | | Ant 0 Max. Tune-up | | |
| | 0 | 2402 | 6.0 | | |
| BT-GFSK | 39 | 2441 | 6.0 | | |
| | 78 | 2480 | 6.0 | | |
| | 0 | 2402 | 6.0 | | |
| BT-8DPSK | 39 | 2441 | 6.0 | | |
| | 78 | 2480 | 6.0 | | |

| SRD | | | | | |
|-------|---------|-----------------|-----------------------|--|--|
| Mode | Channel | Frequency (MHz) | Ant 0 Max. Tune-up | | |
| | 0 | 2402 | 6.0 | | |
| GFSK | 39 | 2441 | 6.0 | | |
| | 78 | 2480 | 6.0 | | |
| DQPSK | 0 | 2402 | 6.0 | | |
| | 39 | 2441 | 6.0 | | |
| | 78 | 2480 | 6.0 | | |

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4.2 SAR Testing Exclusions

According to KDB 447498 D04 Interim General RF Exposure Guidance v01, the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula.

1. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequency from 0.3 GHz to 6 GHz (inclusive).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^{x} & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$$
 and f is in GHz;

and

$$ERP_{20\,cm} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

<SAR Exemption Analysis>

| · | Higher of Max. Power or ERP | | | Min. Distance to human Head | | |
|----------|-----------------------------|------------------|-----------------|-----------------------------|----------------|--------|
| Mode | Frequency (MHz) | Tune up (dBm) | Tune up (mW) | Distance (mm) | Exclusion (mW) | Result |
| BT & SRD | 2480 | 7.51 | 5.64 | 14.5 | 20.65 | No |

Note:

- 1. When the device output power is less than the power threshold shown in above table, the SAR testing exclusion is applied.
- 2. Units for d are cm and units for f are GHz.

Summary:

Since the SAR testing for all device orientations apply SAR test exclusion per KDB 447498, SAR testing for this device is not required.

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5. Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The road map of all our labs can be found in our web site also.

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