Sony Global Manufacturing & Operations Corporation EMC/RF Test Laboratory, Main Lab.

Kisarazu Site 8-4 Shiomi Kisarazu-shi, Chiba, 292-0834 Japan

Date: May 29, 2018

FCC ID : AK8WH1000XM3 Applicant: Sony Corporation

SAR Evaluation Exemption

To whom it may concern,

We, Sony Global Manufacturing & Operations Corporation EMC/RF Test Laboratory, Main Lab., hereby declare that Wireless Noise Canceling Stereo Headset, models: WH-1000XM3 (FCC ID: AK8WH1000XM3) of Sony Corporation are exempt from RF exposure SAR evaluation, as their output power meet the exclusion limits, stated in FCC Part 2 §2.1093.

According to KDB 447498 D01 (v06), section 4.3.1:

- ... These test exclusion conditions are based on source-based time-averaged (i.e. frame averaged) maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.
- ... 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)] • $[\sqrt{f(GHz)}] \le 3.0$ 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 calculation
- 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.

For above device,

Regarding **Bluetooth BR/EDR**;

f = 2.48 GHz, distance = 5mm (the min. separation distance is < 5 mm), the Maximum Average Conducted Output Power (<u>burst averaged</u>) = -0.04 dBm \approx 1 mW. Therefore,

1 mW / 5 mm * ($\sqrt{2.48}$ GHz) = 0.3 < 3.0 and no SAR evaluation is required.

Regarding **Bluetooth Low Energy**;

f = 2.48 GHz, distance = 5mm (the min. separation distance is < 5 mm), the Maximum Average Conducted Output Power (<u>burst averaged</u>) = -0.29 dBm \approx 1 mW. Therefore.

1 mW / 5 mm * ($\sqrt{2.48}$ GHz) = 0.3 < 3.0 and no SAR evaluation is required.



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Thank you for your attention to this matter.

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Sincerely,

Teruki Kurihara Technical Manager

EMC/RF Test Laboratory Main Lab.

Design Technology Division

Sony Global Manufacturing & Operations Corporation