

Date: July 14, 2023

FCC ID : AK8WW75731
Applicant: Sony Group Corporation

SAR Evaluation Exemption

To whom it may concern,

We, Sony Global Manufacturing & Operations Corporation EMC/RF Test Laboratory, Main Lab., hereby declare that Radio Equipment, model: WW84772 (WW75731), WW07509 (WW61363) and WW351513 (WW656543) of Sony Corporation are exempted 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 ≤ 50 mm are determined by:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \cdot \sqrt{f(\text{GHz})} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before 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,

$f = 2.48$ GHz, distance = 5mm, the max. possible duty cycle = 100 % = 0.00 dB,
the max. possible burst averaged power incl. tune-up tolerance = 5.70 dBm, and
the max. possible frame averaged power incl. tune-up tolerance = 5.70 + (0.00) = 5.70 dBm ≈ 4 mW.

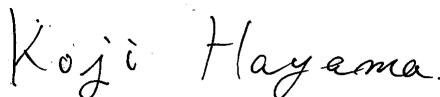
Therefore,

$$4 \text{ mW} / 5 \text{ mm} * (\sqrt{2.48 \text{ GHz}}) = 1.3 < 3.0$$

and no SAR evaluation is required.

Thank you for your attention to this matter.

Sincerely,



Koji Hayama
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Design Technology Division
Sony Global Manufacturing & Operations Corporation