



September 4, 2013

UL Japan, Inc.  
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN

FCC ID: AK8TMRHW300

To whom it may concern,

We, UL Japan, Inc., hereby declare that Digital Stereo Transmitter , model : TMR-HW300 (FCC ID: AK8TMRHW300) of Sony Corporation is exempt from RF exposure SAR evaluation as its output power meets the exclusion limits stated in FCC Part 2 §2.1093.

KDB 447498D01(v05r01) has the following exclusion for portable devices:

The 1g and 10g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{measured maximum equivalent isotropic radiated power(mW)})/(\text{Minimum separation distance(mm)})] \cdot [\sqrt{f} \text{ (GHz)}]$   
 $\leq 3.0$  for 1g SAR and  $\leq 7.5$  for 10g 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  $\leq 50$  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.

This device  $f = 2.48$  GHz, distance = 5mm (minimum separation distance: 5 mm was used in the calculation) and the measured maximum equivalent isotropic radiated power was 3.88 mW

So for this device:

$3.88 \text{ mW} [\text{measured maximum equivalent isotropic radiated power}] / 5 \text{ mm} [\text{minimum separation distance}] \cdot (\sqrt{2.48}) = 1.22$

\* calculation:  $\text{measured maximum equivalent isotropic radiated power} = 10^{((\text{maximum peak output power [dBm]} + \text{antenna gain [dBi]}) / 10)}$   
 $= 10^{((3.08 \text{ [dBm]} + 2.81 \text{ [dBi]}) / 10)}$

\*This is less than 3.0, so no SAR is required.

Thank you for your attention to this matter.

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