

August 21, 2013

UL Japan, Inc.
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FCC ID: VPYLBXN604

To whom it may concern,

We, UL Japan, Inc, hereby declare that Communication Module, model: Type XN (FCC ID: VPYLBXN604) of Murata Manufacturing Co., Ltd. is exempt from RF exposure SAR evaluation as its output power meets the exclusion limits stated in FCC Part 2 §2.1093.

KDB 447498D01(V05) 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 ≤ 50 mm are determined by:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})]}{\sqrt{f(\text{GHz})}} \leq 3.0$$

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.

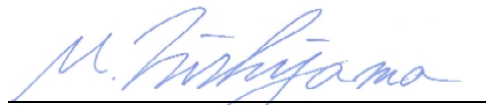
This device has $f = 2.48$ GHz and distance = 5 mm (minimum separation distance: 5mm was used in the calculation) and the maximum tune-up tolerance limit was 4.25 mW

So for this device:

$4.25 \text{ mW} / [5 \text{ mm}] \sqrt{2.48} = 1.4$

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

Thank you for your attention to this matter.



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