According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation distance ≤ 50 mm are determined by:

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

## For WLAN

The tune-up power is 7 dBm +/- 2dB, therefore the highest tune-up power is 9.0 dBm (7.94 mW) @ 2437 MHz

When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So.

```
(8mW / 5mm) * (2.437GHz ^0.5) = 2.5
```

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] \*  $[\sqrt{f(GHz)}] = 2.5 < 3.0$ 

## For UNII

The tune-up power is 6 dBm +/- 2dB, therefore the highest tune-up power is 8.0 dBm (6.31 mW) @ 5190 MHz

When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So.

$$(6mW / 5mm) * (5.190GHz ^0.5) = 2.9$$

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] \*  $[\sqrt{f(GHz)}] = 2.9 < 3.0$ 

Therefore, standalone SAR measurements are not required for both head and body.

Date of Issue: September 3, 2014