SAR test exclusion

According to KDB 447498 D01 General RF Exposure Guidance v05, section 4.3.1

At 100 ㎒ to 6 ㎓ and for test separation distances ≤ 50 mm, the SAR test exclusion threshold is

determined according to the following;

a) [(max. power of channel, including tune-up tolerance, ㎽) / (min. test separation distance, mm)]
   x [√f(GHz)] ≤ 3.0

1. SAR test exclusion threshold

Frequency : 2480 ㎒ (min. separation distances = 5 mm)

SAR test exclusion thresholds(5 mm) = [(2.0 / 5) * √2.480] = 0.63 < 3.0.

Mode	Frequency (MHz)	Tune up output Power (dBm)	Measured max output Power (dBm)	Separation Distance (mm)	≤ 3.0
Bluetooth	2402	−1±2	−1.3	5	−0.40
Bluetooth	2440	2±2	1.15	5	0.36
Bluetooth	2480	2±2	2.08	5	0.66

[Tune up power, dBm] = [Target power, dBm ± tune-up tolerance, dBm)]
Maximum tuned up power = (2 dBm ± 2 dBm) = 4 dBm = 2.51 mW
Measured max output power = 2.08 dBm

2. Conclusion : Bluetooth SAR was not required

0

−0.40296
0.359271
0.655117