SAR test exclusion

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

At 100 Mb to 6 Gb 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, mW) / (min. test separation distance, mm)] $x [\sqrt{f(GHz)}] \le 3.0$

1. SAR test exclusion threshold

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

SAR test exclusion thresholds(5 mm) = $[(0.1 / 5) * \sqrt{2.480}] = 0.031 \le 3.0$.

Mode	Frequency (MHz)	Tune up output Power (dBm)	Measured max output power (dBm)	Separation Distance (mm)	≤ 3.0
Bluetooth	2402	-16±3	-13.8	5	0.015
Bluetooth	2442	−15±3	-12.78	5	0.019
Bluetooth	2480	-13±3	-10.76	5	0.031

[Tune up power, dBm] = [9Target power, dBm \pm tune-up tolerance, dBm)] Maximum tuned up power = $(-13 \text{ dBm} \pm 3 \text{ dBm}) = -10.0 \text{ dBm} = 0.1 \text{ mW}$ Measured max output power = -10.76 dBm

2. Conclusion: Bluetooth SAR was not required