SAR Evaluation

According to 447498 D01 General RF Exposure Guidance v05.
The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] · [$\sqrt{f(GHz)}$] ≤ 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

Worse case is as below:
The maximum output power of EUT (lowest channel) is -6.88dBm =0.21 mW,
So the calculated result is:
[0.21 mW/ 5 mm] · [$\sqrt{2.402(\mathrm{GHz})}$] = 0.07 < 3.0 for 1-g SAR

Then SAR evaluation is not required