RF Exposure 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)] ·[√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 arerounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

eirp = pt x gt = (EXd)2/30
where:
pt = transmitter output power in watts,
gt = numeric gain of the transmitting antenna (unitless),
E = electric field strength in V/m, --- 10((dBuV/m)/20)/106
d = measurement distance in meters (m)---3m
Sopt = (EXd)2/30 x gt

Ant gain 1.5dBi ;so Ant numeric gain=1.41

Field strength = 71.0 dBuV/m @3m
So Pt={ [10($^{71.0\ /20}$)/10^{6} x3]^{2}/30x1.41 }x1000 mW =0.003mW

So (0.03mW/5mm)x √2.440GHz =0.001< 3

Then SAR evaluation is not required