RF Exposure evaluation

According to 447498 D01 General RF Exposure Guidance v06

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 are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

For 5730-5844MHz, **Worst case** scenario: 5844MHz

Field strength =98.66dBuV/m @3m
Ant gain 2.15 dBi; so Ant numeric gain=1.64

So pt= {[10(98.66/20)/10^6 x3]2/30x1.64} x 1000 mW =3.6138mW

So (3.6138mW/5mm) x √5.844GHz = 1.7472< 3 for 1-g SAR

Then SAR evaluation is not required