



RF Exposure Evaluation

According to KDB 447498 D01 General RF Exposure Guidance v06 and part 2.1093, Unless specifically required by the *published RF exposure KDB procedures*, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding *SAR Test Exclusion Threshold* condition(s), listed below, is (are) satisfied.

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where
 $f_{\text{(GHz)}}$ 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

Here

For 5.8G

Frequency(MHz)	Peak Level dBuV/m	Max Power(dBm)	Max Power(mW)	Min. Distance (mm)	Calc. thresholds	limit
5730	83.62	-11.58	0.07	5	0.03326	3.0

Remark: dBuV/m to dBm , dBm = dBuV/m - 95.2;

For BT

Test Mode	Max Power(dBm)	Max Power(mW)	Frequency(MHz)	Min. distance(mm)	Calc. thresholds	limit
GFSK	3.556	2.27	2441	5	0.70294	3.0
$\pi/4$ -DQPSK	5.638	3.66	2480	5	1.13532	3.0
8-DPSK	5.819	3.82	2480	5	1.18363	3.0

Remark: BT & 5.8G can transmit at the same time, So the worst simultaneous transmitting consideration:

The ratio = $MPE_{(5.8G)} / \text{limit} + MPE_{(BT)} / \text{limit}$
= $0.03326/3 + 1.18363/3 = 0.40563 < 1$

So a SAR test is not required