

Standalone SAR test exclusion considerations

Transmitting Frequency(MHz)	Test separation distance (mm)	Field Strength at 3m (dBuV/m)	Conversion Factor (dB) ^{Note1}	EIRP (dBm)	Max EIRP (mW)	Power thresholds	SAR test exclusion thresholds
434.20	5.00	76.73	-95.16	-18.43	0.014 4	0.001 9	3.00

Note1. $EIRP(dBm) = E(dBuV/m) + 20\log D - 104.7$; Where D is the measurement distance in meters.

KDB 447498 D01 clause 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances ≤ 50 mm

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1g SAR and ≤ 7.5 for 10g extremity SAR

Sample Calculation

$$= [(0.0144\text{mW} / 5\text{mm})] \times [\sqrt{0.07673\text{GHz}}] = 0$$

Note. The calculation result was rounded to two decimal place for comparison.

Conclusion : SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required