

SAR Test Exclusion Consideration

Date: 31/01/2023

FCC ID: 2A7NH-DSMFS01

Device Category = Portable device Mobile device

Transmitting mode = Single Trans. Simultaneous Trans.

Portable Use:

KDB 447498 D01 clause 4.3.1 Step 1) SAR test exclusion threshold for 1000 MHz 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 1-g SAR, and ≤ 7.5 for 10-g extremity SAR

= $[(\text{mW} / \text{mm})] \times (\text{GHz}) =$

Max. transmitting frequency	433,83 MHz	
Min. test separation distance	30 mm	
Max. Antenna Gain	3,0 dBi	
Max. power with turn-up tolerance	-17,37 dBm	
Max. power with turn-up tolerance	0,0 mW	
SAR Value	0,0004	

⇒ **SAR evaluation for general population exposure condition by measurement or numerical simulation is not required**

SAR Test Exclusion Consideration

Date: 31/01/2023

FCC ID: 2A7NH-DSMFS01

Device Category = Portable device Mobile device

Transmitting mode = Single Trans. Simultaneous Trans.

Mobile Use:

$$S = \frac{E.I.R.P}{4\pi R^2} = \frac{X[mW]}{4\pi Y[cm^2]} = \mathbf{RESULT} [mW/cm^2]$$

E.I.R.P (mW)	Evaluation distance R (cm)	Power density S at prediction Frequency (mW/cm2)	MPE limit for uncontrolled exposure at prediction frequency (mW/cm2)	Verdict
0.01832	30 cm	0,0004	1	PASS

⇒ **SAR evaluation for general population exposure condition by measurement or numerical simulation is not required**