

## SAR Test Exclusion Consideration

**Date: 31/01/2023**

**FCC ID: 2A7NH-DSANT01**

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  $\leq 50$  mm**

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

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

Max. transmitting frequency	433,83 MHz	
Min. test separation distance	30 mm	
Max. Antenna Gain	3,0 dBi	
Max. power with turn-up tolerance	-15,95 dBm	
Max. power with turn-up tolerance	0,0254 mW	
<b>SAR Value</b>	<b>0,0006</b>	

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

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Mobile Use:

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

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
0.0254	30 cm	0,0006	1	PASS

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