

MPE Calculation

Model Name : **IST-DSHINE**

Device Category : **Portable device**

FCC ID : **2BRRS-IST-DSHINE**

Separation distance : **5.0 mm**

KDB 447498 - 4.3.1 a)

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:

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

Modulation	Frequency (MHz)	Min. Test separation distance	Measured Maximum Average power	Tune-up tolerance	Max. Power with tune-up tolerance		Standalone SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance ≤ 50 mm	Limit	Result
		(mm)	(dBm)	(dB)	(dBm)	(mW)			
GFSK	2402	5.00	-1.94	± 1.00	-0.94	0.81	0.2496	3.00	PASS
	2441		-1.80		-0.80	0.83	0.2599	3.00	PASS
	2480		-1.61		-0.61	0.87	0.2737	3.00	PASS
$\pi/4$ DQPSK	2402	5.00	-1.17	± 1.00	-0.17	0.96	0.2981	3.00	PASS
	2441		-0.91		0.09	1.02	0.3190	3.00	PASS
	2480		-0.75		0.25	1.06	0.3336	3.00	PASS
8DPSK	2402	5.00	-1.03	± 1.00	-0.03	0.99	0.3078	3.00	PASS
	2441		-0.75		0.25	1.06	0.3310	3.00	PASS
	2480		-0.58		0.42	1.10	0.3469	3.00	PASS