

MPE Calculation

Model Name : NAUTITALK BOSUN

FCC ID : S7A-SP174

Device Category : **Portable device**

Separation distance : **15.2 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	15.20	6.72	± 1.00	7.72	5.92	0.6032	3.00	PASS
	2441		6.44		7.44	5.55	0.5701	3.00	PASS
	2480		6.26		7.26	5.32	0.5513	3.00	PASS
$\pi/4$ DQPSK	2402	15.20	3.87	± 1.00	4.87	3.07	0.3129	3.00	PASS
	2441		3.59		4.59	2.88	0.2958	3.00	PASS
	2480		3.46		4.46	2.79	0.2893	3.00	PASS
8DPSK	2402	15.20	3.88	± 1.00	4.88	3.08	0.3136	3.00	PASS
	2441		3.64		4.64	2.91	0.2992	3.00	PASS
	2480		3.49		4.49	2.81	0.2913	3.00	PASS
BT LE	2402	15.20	1.86	± 1.00	2.86	1.93	0.1970	3.00	PASS
	2442		1.59		2.59	1.82	0.1867	3.00	PASS
	2480		1.37		2.37	1.73	0.1788	3.00	PASS