

MPE Calculation

Model Name : **SP171**

FCC ID : **2BNO8-SP171**

Device Category : **Portable device**

Separation distance : **35.8 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	35.80	9.80	± 1.00	10.80	12.02	0.5205	3.00	PASS
	2441		12.07		13.07	20.28	0.8849	3.00	PASS
	2480		11.23		12.23	16.71	0.7351	3.00	PASS
$\pi/4$ DQPSK	2402	35.80	2.62	± 1.00	3.62	2.30	0.0996	3.00	PASS
	2441		5.60		6.60	4.57	0.1995	3.00	PASS
	2480		4.82		5.82	3.82	0.1680	3.00	PASS
8DPSK	2402	35.80	3.40	± 1.00	4.40	2.75	0.1192	3.00	PASS
	2441		6.32		7.32	5.40	0.2355	3.00	PASS
	2480		5.49		6.49	4.46	0.1960	3.00	PASS
BT LE	2402	35.80	0.02	± 1.00	1.02	1.26	0.0548	3.00	PASS
	2442		2.24		3.24	2.11	0.0920	3.00	PASS
	2480		1.50		2.50	1.78	0.0782	3.00	PASS
MESH	2410	35.80	16.95	± 1.00	17.95	62.37	2.7047	3.00	PASS
	2445		15.77		16.77	47.53	2.0761	3.00	PASS
	2475		14.57		15.57	36.06	1.5845	3.00	PASS