

MPE Calculation

Model Name : **SP97**

FCC ID : **S7A-SP97**

Device Category : **Portable device**

Separation distance : **38.0 mm**

KDB 447498 - 3.4.1 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	38.00	17.35	± 0.50	17.85	60.95	2.4860	3.00	PASS
	2441		17.97		18.47	70.31	2.8907	3.00	PASS
	2480		17.72		18.22	66.37	2.7507	3.00	PASS
$\pi/4$ DQPSK	2402	38.00	4.82	± 0.50	5.32	3.40	0.1388	3.00	PASS
	2441		5.86		6.36	4.33	0.1778	3.00	PASS
	2480		5.21		5.71	3.72	0.1543	3.00	PASS
8DPSK	2402	38.00	5.16	± 0.50	5.66	3.68	0.1501	3.00	PASS
	2441		5.86		6.36	4.33	0.1778	3.00	PASS
	2480		6.45		6.95	4.95	0.2053	3.00	PASS
BT LE	2402	38.00	3.80	± 0.50	4.30	2.69	0.1098	3.00	PASS
	2442		4.63		5.13	3.26	0.1340	3.00	PASS
	2480		4.51		5.01	3.17	0.1314	3.00	PASS