

MPE Calculation

Model Name : **SP114**

FCC ID : **S7A-SP114**

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	3.42	± 0.50	3.92	2.47	0.2514	3.00	PASS
	2441		4.36		4.86	3.06	0.3147	3.00	PASS
	2480		2.91		3.41	2.19	0.2272	3.00	PASS
$\pi/4$ DQPSK	2402	15.20	3.07	± 0.50	3.57	2.28	0.2320	3.00	PASS
	2441		4.03		4.53	2.84	0.2917	3.00	PASS
	2480		2.68		3.18	2.08	0.2155	3.00	PASS
8DPSK	2402	15.20	3.16	± 0.50	3.66	2.32	0.2368	3.00	PASS
	2441		4.12		4.62	2.90	0.2978	3.00	PASS
	2480		2.78		3.28	2.13	0.2205	3.00	PASS
BT LE	2402	15.20	-0.70	± 0.50	-0.20	0.95	0.0974	3.00	PASS
	2442		0.50		1.00	1.26	0.1294	3.00	PASS
	2480		-0.74		-0.24	0.95	0.0980	3.00	PASS
MESH	2410	15.20	9.46	± 0.50	9.96	9.91	1.0120	3.00	PASS
	2445		9.00		9.50	8.91	0.9168	3.00	PASS
	2475		8.29		8.79	7.57	0.7833	3.00	PASS