

MPE Calculation

Model Name : **SP129**
 FCC ID : **S7A-SP129**

Device Category : **Portable device**
 Separation distance : **36.2 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(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	36.20	16.79	± 0.50	17.29	53.58	2.2939	3.00	PASS
	2441		16.88		17.38	54.70	2.3609	3.00	PASS
	2480		16.85		17.35	54.33	2.3633	3.00	PASS
$\pi/4$ DQPSK	2402	36.20	7.45	± 0.50	7.95	6.24	0.2670	3.00	PASS
	2441		7.15		7.65	5.82	0.2512	3.00	PASS
	2480		6.94		7.44	5.55	0.2413	3.00	PASS
8DPSK	2402	36.20	7.95	± 0.50	8.45	7.00	0.2996	3.00	PASS
	2441		7.84		8.34	6.82	0.2945	3.00	PASS
	2480		7.57		8.07	6.41	0.2789	3.00	PASS
BT LE	2402	36.20	2.32	± 0.50	2.82	1.91	0.0820	3.00	PASS
	2442		2.19		2.69	1.86	0.0802	3.00	PASS
	2480		2.17		2.67	1.85	0.0804	3.00	PASS