

MPE Calculation

Model Name : **SP128**
 FCC ID : **S7A-SP128**

Device Category : **Portable device**
 Separation distance : **40.0 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 (mm)	Measured Maximum Average power (dBm)	Tune-up tolerance (dB)	Max. Power with tune-up tolerance		Standalone SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance ≤ 50 mm	Limit	Result
					(dBm)	(mW)			
GFSK	2402	40.00	15.27	± 0.50	15.77	37.76	1.4629	3.00	PASS
	2441		17.42		17.92	61.94	2.4195	3.00	PASS
	2480		16.43		16.93	49.32	1.9416	3.00	PASS
$\pi/4$ DQPSK	2402	40.00	4.88	± 0.50	5.38	3.45	0.1337	3.00	PASS
	2441		7.20		7.70	5.89	0.2300	3.00	PASS
	2480		6.28		6.78	4.76	0.1876	3.00	PASS
8DPSK	2402	40.00	5.50	± 0.50	6.00	3.98	0.1543	3.00	PASS
	2441		7.87		8.37	6.87	0.2684	3.00	PASS
	2480		6.86		7.36	5.45	0.2144	3.00	PASS
BT LE	2402	40.00	-0.59	± 0.50	-0.09	0.98	0.0380	3.00	PASS
	2442		3.14		3.64	2.31	0.0903	3.00	PASS
	2480		2.48		2.98	1.99	0.0782	3.00	PASS
MESH	2410	40.00	16.86	± 0.50	17.36	54.45	2.1132	3.00	PASS
	2445		16.52		17.02	50.35	1.9682	3.00	PASS
	2475		15.94		16.44	44.06	1.7327	3.00	PASS