

MPE Calculation

Model Name : **APEX**

FCC ID : **S7A-SP198**

Device Category : **Portable device**

Separation distance : **62.8 mm**

Variant Model : **APEX PLUS**

Model Differences : **The variant model (APEX PLUS) is identical to the basic model (APEX) in terms of hardware, including the RF circuitry and antenna.**

The difference in communication features is controlled solely by software (firmware).

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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)			
Bluetooth	2402	62.80	17.71	± 1.00	18.71	74.30	1.8337	3.00	PASS
	2441		16.54		17.54	56.75	1.4120	3.00	PASS
	2480		15.14		16.14	41.11	1.0310	3.00	PASS