

MPE Calculation

Model Name : **GST-1S**

FCC ID : **2ACHV-GST-1S**

Device Category : **Portable device**

Separation distance : **5.0 mm**

KDB Publication 447498 D04 Interim General RF Exposure Guidance v01 - 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	Max. Tune-up 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)			
BLE 1M	2402	5.00	-7.33	± 1.00	-6.33	0.23	0.0722	3.00	PASS
	2442		-7.58		-6.58	0.22	0.0687	3.00	PASS
	2480		-7.77		-6.77	0.21	0.0663	3.00	PASS