

FCC ID: 2AAMS-SGINT10S

Portable device

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V06

The 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHZ})} \leq 3.0$ 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

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

	Channel Freq. (GHz)	Max Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
BT	2.402	1.64	1.46	1±1	2.00	1.58	<5	0.48975	3.00	YES
	2.441					1.58	<5	0.49371	3.00	YES
	2.48					1.58	<5	0.49764	3.00	YES
BLE	2.402	1.59	1.44	1±1	2.00	1.58	<5	0.48975	3.00	YES
	2.44					1.58	<5	0.49361	3.00	YES
	2.48					1.58	<5	0.49764	3.00	YES
WIFI 2.4G	2.412	4.53	2.84	4±1	5.00	3.16	<5	0.98153	3.00	YES
	2.442					3.16	<5	0.98762	3.00	YES
	2.462					3.16	<5	0.99166	3.00	YES
WIFI 5.1G	5.18	4.16	2.61	4±1	5.00	3.16	<5	1.43841	3.00	YES
	5.2					3.16	<5	1.44118	3.00	YES
	5.24					3.16	<5	1.44671	3.00	YES
WIFI 5.8G	5.745	3.89	2.45	4±1	5.00	3.16	<5	1.51482	3.00	YES
	5.785					3.16	<5	1.52009	3.00	YES
	5.825					3.16	<5	1.52533	3.00	YES

Conclusion:

For the max result : $1.52533\text{W/Kg} \leq \text{FCC Limit } 3.0$ for 1g SAR.

The Product unsupported at the same time to Transmitting.