

FCC ID: 2AH7K-HF1

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 V05

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

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

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz.

We used a distance 5mm to calculated

Maximum measured transmitter power:

BT DSS:

Transmit Frequency (GHz)	Mode	Measured power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Result calculation	1-g SAR
2.402	GFSK	4.27	4.0±1	5.0	0.9802	3.0
2.441	GFSK	6.62	6.0±1	7.0	1.5611	3.0
2.480	GFSK	7.58	7.0±1	8.0	1.9873	3.0
2.402	1/4Π-DQPSK	1.73	1.0±1	2.0	0.4913	3.0
2.441	1/4Π-DQPSK	4.93	5.0±1	6.0	1.2440	3.0
2.480	1/4Π-DQPSK	5.89	6.0±1	7.0	1.5785	3.0
2.402	8DPSK	1.91	2.0±1	3.0	0.6185	3.0
2.441	8DPSK	4.94	5.0±1	6.0	1.2440	3.0
2.480	8DPSK	6.15	6.0±1	7.0	1.5785	3.0

BT DTS:

Transmit Frequency (GHz)	Mode	Measured power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Result calculation	1-g SAR
2.402	GFSK	5.48	5.0±1	6.0	1.2340	3.0
2.440	GFSK	7.10	7.0±1	8.0	1.9712	3.0
2.480	GFSK	8.07	8.0±1	9.0	2.5018	3.0

Conclusion:

For the max result : $2.5018 \leq 3.0$ for 1-g SAR extremity SAR, No SAR is required.

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