

FCC ID: 2ADS4-LUXX

Portable device

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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \sqrt{f_{\text{MHz}}} \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where f_{MHz} is the RF channel transmit frequency in MHz

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

BLE:

Module1:

Modulation	Channel Freq. (GHz)	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
GFSK	2.402	10.824	12.09	11±1	12.00	15.85	<5	4.91266	7.50	YES
	2.441	10.943	12.43	11±1	12.00	15.85	<5	4.95238	7.50	YES
	2.480	10.525	11.28	11±1	12.00	15.85	<5	4.99178	7.50	YES

BLE:

Module2:

Modulation	Channel Freq. (GHz)	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
GFSK	2.402	9.689	9.31	10±1	11.00	12.59	<5	3.90226	7.50	YES
	2.44	9.597	9.11	10±1	11.00	12.59	<5	3.93301	7.50	YES
	2.480	9.559	9.03	10±1	11.00	12.59	<5	3.96512	7.50	YES

UWB:

Modulation	Channel Freq. (GHz)	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
UWB	6.4896	-1.33	0.74	-1±1	0.00	1.00	<5	0.50949	7.50	YES
	7.9872	-3.17	0.48	-3±1	-2.00	0.63	<5	0.35664	7.50	YES

$S = 4.99/7.5 + 0.51/7.5 = 0.738 < 1$, The result is pass

Note: Only when UWB and BT are turned on at the same time, they can work at the same time.
BT Module1 and BT Module2 do not support simultaneous transmissions.