FCC ID: 2AU3A-RECMBTWT

RF exposure evaluation

§ 2.1093 Radiofrequency radiation exposure evaluation: Portable Devices.

According to § 15.247(i) and § 1.1307b(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 guidance.

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

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g 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
- When the minimum test separation distance is < 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.
- The result is rounded to one decimal place for comparison
- · GFSK

Modulation	Frequency (GHz)	Max. Power (dBm)	Tune up Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Test distance (mm)	exclusion thresholds for 1-g SAR
GFSK(1Mbps)	2.450	2.59	2±1	3	2.00	25	48
Walkie Talkie	0.450	19.34	19±1	20	100	25	112

Modulation	Frequency (GHz)	Power (mW)	Limit (mW)	Result	Simultaneous transmission	
GFSK(1Mbps)	2.450	2.00	48	0.04	0.93	
Walkie Talkie	0.450	100	112	0.89		