RF exposure letter

RF Exposure evaluation

According to 447498 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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] •[√f(GHz)] ≤ 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

Rated RF power output

Mode	BT 3.0+EDR
Detector	PEAK
GFSK	0±0.5dBm
π /4-DQPSK	-1±0.7dBm
8-DPSK	-1±0.5dBm

Mode	BT 4.1
Detector	PEAK
GFSK	-5±1dBm

2、2.4G BT3.0+EDR output power:

2402MHz ： (1.122mW /5mm) •[√2.402(GHz)]=0.348 <3.0 for 1-g SAR

2441MHz ： (1.122mW /5mm) •[√2.441(GHz)]=0.351<3.0 for 1-g SAR

2480MHz ： (1.122mW /5mm) •[√2.480(GHz)]=0.353<3.0 for 1-g SAR

2.4G BT4.1 output power:

2402MHz : (0.398mW /5mm) •[√2.402(GHz)]=0.123 <3.0 for 1-g SAR

2440MHz : (0.398mW /5mm) •[√2.440(GHz)]=0.124<3.0 for 1-g SAR

2480MHz : (0.398mW /5mm) •[√2.480(GHz)]=0.125<3.0 for 1-g SAR

Then SAR evaluation is not required