

### **RF EXPOSURE EVALUATION METHOD**

## FCC ID: 2A2F7-D1R

#### Applicable standard:

In accordance with FCC 47 CFR part 2 (2.1093) this device has been defined as a portable device which is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Portable devices must be evaluated using the specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEEC95.1-1992. and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

Per FCC KDB 447498 D01 v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances s 50 mm are determined by:

#### SAR Test Exclusion Thresholds for 100 MHz $\,$ – $\,$ 6 GHz and $\leq$ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	SAR Test Exclusion
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	Threshold (mW)
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] •  $[\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  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

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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.

# BCTC 倍测检测

### **BT-EDR**

Modulation	Test Channel	Output Power (dBm)	Limit (dBm)
GFSK	Low	5.200	21
GFSK	Middle	4.561	21
GFSK	High	5.250	21
π/4DQPSK	Low	2.195	21
π/4DQPSK	Middle	2.186	21
π/4DQPSK	High	2.788	21
8DPSK	Low	2.893	21
8DPSK	Middle	3.131	21
8DPSK	High	3.460	21

max possible output power (PK,conducted) : 5±1dBm

-0.98dBi logarithmic terms convert to numeric result is nearly 0.798

6dBm=3.98mW

### 2402MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)] · [√f(GHz)]= 3.98/5\*√2.402=1.23≤3.0

Threshold at which no SAR required is 10mw and  $\leq$  3.0 for 1-g SAR, Separation

distance is 5mm.

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## 2441MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)]  $\cdot [\sqrt{f(GHz)}] = 3.98/5*\sqrt{2.441} = 1.24 \le 3.0$ 

Threshold at which no SAR required is 10mw and  $\leq$  3.0 for 1-g SAR, Separation

distance is 5mm.

2480MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)] · [√f(GHz)]= 3.98/5\*√2.48=1.25≤3.0

Threshold at which no SAR required is 10mw and  $\leq$  3.0 for 1-g SAR, Separation

distance is 5mm.

Conclusion: No SAR is required.