RF EXPOSURE EVALUATION METHOD

FCC ID:2AMLT-S80

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 150 300 450 835 900 1500 1900 2450 3600 5200 5400 5800	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)] • $[\sqrt{f(GHz)}] \leq 3.0$ 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

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.

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BT-EDR

Modulation	Frequency (MHz)	Output Power (dBm)	Max Antenna Gain (dBi)
GFSK	2402	0.593	1.2
GFSK	2441	0.733	1.2
GFSK	2480	0.713	1.2
Pi/4 DQPSK	2402	1.718	1.2
Pi/4 DQPSK	2441	1.956	1.2
Pi/4 DQPSK	2480	1.920	1.2
8DPSK	8DPSK	1.952	1.2
8DPSK	8DPSK	2.111	1.2
8DPSK	8DPSK	2.183	1.2

max possible output power (PK,conducted) : 2±1dbm

1.2dBi logarithmic terms convert to numeric result is nearly 1.318

3dbm=2.00mW

2402MHz

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

distance,mm)] · [√f(GHz)]2.00/5*√2.402=0.62≤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)] · [√f(GHz)]= 2.00/5*√2.441=0.62≤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.

2480MHz

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

distance,mm)] $\cdot [\sqrt{f(GHz)}] = 2.00/5^* \sqrt{2.48} = 0.63 \le 3.0$

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

distance is 5mm.