RF EXPOSURE EVALUATION METHOD

RF EXPOSURE EVALUATION METHOD- KDB 447498 D01V06 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				
900	16	32	47	63	79	SAR Test Exclusion			
1500	12	24	37	49	61				
1900	11	22	33	44	54	Threshold (mW)			
2450	10	19	29	38	48	Timesment (in 11)			
3600	8	16	24	32	40				
5200	7	13	20	26	33				
5400	6	13	19	26	32				
5800	6	12	19	25	31				

Note: 10-g Extremity SAR Test Exclusion Power Thresholds are 2.5 times higher than the 1-g SAR Test Exclusion Thresholds indicated above. These thresholds do not apply, by extrapolation or other means, to occupational exposure limits.

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)] • [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 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.

BT

Mode	Frequency:2402 – 2480 MHz		
Detector	PEAK		
GFSK(1Mbps)	1±1dBm		
π/4-DQPSK(2Mbps)	1.5±1dBm		
8DPSK(3Mbps)	2±1dBm		

Mode	frequency (GHz)	Maximum Peak Conducted Output Power (dBm)	Tune up Power (dBm)	Tune up Power (mW)	Result	Limit
GFSK(1Mbps)	2.402	1.69	2	1. 58489319	0.4913	3
π/4- DQPSK(2Mbps)	2.402	2.44	2.5	1.77827941	0. 5512	3
8DPSK(3Mbps)	2.402	2.83	3	1. 99526231	0.6185	3

Remark: The worst case gain of the antenna is -0.58dBi.

Threshold at which no SAR required is 0.6185 \leq 3.0 for 1-g SAR, Separation distance is 5mm.