RF EXPOSURE EVALUATION METHOD

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	SAR Test Exclusion Threshold (mW)			
835	16	33	49	66	82				
900	16	32	47	63	79				
1500	12	24	37	49	61				
1900	11	22	33	44	54				
2450	10	19	29	38	48				
3600	8	16	24	32	40				
5200 5400	7	13 13	20 19	26 26	33 32				
	6								
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 ≤ 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 \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.

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Frequenc y (MHz)	Maximum Conducted power	Power toleranc e(dBm)	Maximum tune-up conducted power		Calculated value	Threshold	
	(dBm)		dBm	mw	(distance≤5 mm)	(distance≤5m m)	Verdict
							Compliance,
						3.0	SAR test is exempted

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)] • [$\sqrt{f(GHz)}$]= $0/5* \sqrt{2.435}$ = $0.00 \le 3.0$ Threshold at which no SAR required is 10mw and ≤ 3.0 for 1-g SAR, Separation distance is 5mm.

Conclusion: No SAR is required.•