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RF EXPOSURE EVALUATION

According to KDB 447498 D01 General RF Exposure Guidance v06 and part 2.1093, Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

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

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(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 ≤ 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

Shenzhen ZKT Technology Co., Ltd.

1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

+86-755-2233 6688









Here,

For BLE

Mode	Frequency	Power	Tune-up power	Max tune-up power	Max tune-up power	Min. Distance	Calc. thresholds	limit
	(MHz)	(dBm)	(dBm)	(dBm)	(mW)	(mm)		
GFSK	2402	-3.053	-3.5±1	-2.5	0.50	5	0.156	3.0

For EDR

Mode	Frequency (MHz)	Power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Min. Distance (mm)	Calc. thresholds	limit
GFSK	2402	-1.794	-2±1	-1	0.66	5	0.200	3.0
π/4-DQP SK	2402	-0.859	-1±1	0	0.82	5	0.254	3.0

Conclusion:

- 1. [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * $[\sqrt{f(GHz)}] < 3.0$.
- 2. SAR Test Exclusion Thresholds is 3.0 for separation distance 5mm. Therefore, SAR test is not required.

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