## **RF Exposure Evaluation**

## **REQUIREMENT**

KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1

a) [(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 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 according to 4.1 f) is applied to determine SAR test exclusion.
- **b)**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 (also illustrated in Appendix B)
- 1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance -50 mm)·(f(MHz)/150)]} mW, for 100 MHz to 1500 MHz
- 2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance 50 mm) 10]} mW, for > 1500 MHz and  $\leq$  6 GHz
- **c)** For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C)
- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by  $[1 + \log(100/f(MHz))]$
- 2) For test separation distances  $\le$  50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz.

## **TEST RESULT**

□ N □ N	Not Applicable
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Туре	Frequency	Maximum Output	Calculating data	10-g Limit	Result
	(MHz)	Power (dBm)	(mW)	(mW)	
95C	27.145	20.74	119	929	Pass

Note:

- 1) The maximum antenna gain is 1dBi
- 2) The exposure safety distance is less than 0mm.