

RF Exposure Compliance for Simultaneous Operations

Configurations for Simultaneous Operations

Configuration 1: NFC + WCDMA/LTE

Power Density is calculated from Maximum Conducted Power and Antenna Gain at prediction distance

Maximum of Conducted and Radiated Output Power is used in the calculation. Therefore negative values for antenna gain have been replaced by 0 dB

RF Function	NFC	WCDMA B2	WCDMA B4	WCDMA B5	LTE B2	LTE B4	LTE B5	LTE B7	LTE B12	LTE B13	LTE B25	TE B26	LTE B26_2	LTE B38	LTE B41	Σ of MPE ratios	
Frequency (MHz)	13.56	1852.4	1712.4	826.4	1850.7	1710.7	824.7	2502.5	699.7	779.5	1850.7	814.7	824.7	2572.5	2498.5		
Conducted Output Power (dBm)	0.000032	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00		
Tune Up Tolerance (dB)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Output Power (W)	0.001	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316		
Antenna Gain (dBi)	0.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00		
Antenna Gain (Numeric)	1.00	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16		
Prediction Distance (cm)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
Time Averaged Duty Cycle (%)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
Calculated Power Density (W/m2)	0.002	1.989	1.989	1.989	1.989	1.989	1.989	1.989	1.989	1.989	1.989	1.989	1.989	1.989	1.989		
Requirement (W/m2)	9.79	10.00	10.00	5.51	10.00	10.00	5.50	10.00	4.67	5.20	10.00	5.43	5.50	10.00	10.00		
MPE ratio (PD/Req.)	0.000	0.199	0.199	0.361	0.199	0.199	0.362	0.199	0.426	0.383	0.199	0.366	0.362	0.199	0.199		
Configuration 1 (MPE Ratio)	0.0002	0.199	0.199	0.361	0.199	0.199	0.362	0.199	0.426	0.383	0.199	0.366	0.362	0.199	0.199		0.427

Requirement: Σ of MPE ratios ≤ 1

The maximum value for WCDMA/LTE is used in the above calculations.