

Maximal Permissible Exposure

FCC ID: M72-SS2WDECT6 (fixed part)

IC : 1849C-SS2W

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy in excess limit for maximum permissible exposure.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 and RSS-102 this device has been defined as a mobile device whereby a distance of 0.2, normally can be maintained between the user and the device.

The following calculation presents the exposure value against the limits for occupational / controlled use.

Operating mode: UPCS

name		nature value	log value
max conducted power		62,23 mW	17,94 dBm
max Antenna gain dBi		1,00	0,00 dBi
max Antenna gain dBd		0,61	0,00 dBd
calculated radiated power	EIRP	62,23 mW	17,94 dBm
measured radiated power	EIRP	97,72 mW	19,90 dBm
duty cycle factor			
frequency		1928,45 MHz	
dwel time		25,00 ms	
Time of occupancy/puls-train time		100,00 ms	
duty cycle factor	10log(dwel time/100 ms)	25,00%	-6,02 dB
max source-based time-averaged power			
conducted power		15,56 mW	11,92 dB
calculated radiated power	EIRP	15,56 mW	11,92 dB
measured radiated power	EIRP	24,43 mW	13,88 dB
M P E			
$S = \frac{PG}{4\pi R^2}$		calculated with max source-based time-averaged power	
		measured conducted power	
		r [cm]	20 2,5 1,5 1,11
		S [mW/cm²]	0,0031 0,198 0,551 1,0
Limit general population		[mW/cm²]	1,0
Limit occupational population		[mW/cm²]	5,0 for f = 1928,5 MHz
$S = \frac{EIRP}{4\pi R^2} = \frac{1.64 ERP}{4\pi R^2} = \frac{0.41 ERP}{\pi R^2}$		calculated with max source-based time-averaged power	
		measured radiated power	
		r [cm]	20 2,5 1,5 n.a.
		S [mW/cm²]	n.a. 1,0