Maximal Permissible Exposure

FCC ID: M72-SS2WDECT6 (portable 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			88,92 mW	19,49 dBm
max Antenna gain dBi			1,00	0,00 dBi
max Antenna gain dBd			0,61	0,00 dBd
calculated radiated power		EIRP	88,92 mW	19,49 dBm
measured radiated power		EIRP	140,93 mW	21,49 dBm
duty cycle factor				
frequency	1921,54 MHz			
dwell time			25,00 ms	
Time of occupancy/puls-train time			100,00 ms	
duty cycle factor	10log(dwell time/100 ms)		**25,00%**	-6,02 dB
max source-based time-averaged power				
conducted power			**22,23** mW	13,47 dB
calculated radiated power		EIRP	**22,23** mW	13,47 dB
measured radiated power		EIRP	**35,23** mW	15,47 dB

$$S = \frac{PG}{4\pi R^2}$$

M P E

calculated with max source-based time-averaged power
measured condacted power

r [cm]	20	2,5	1,5	**1,33**
S [mW/cm²]	**0,0044**	**0,283**	**0,787**	1,0
Limit general population	[mW/cm²]	1,0		
Limit occupational population	[mW/cm²]	5,0	for f = 1921,5 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