

## Maximal Permissible Exposure

FCC IC : T7V1315

IC : 216Q-1315

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 m, 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: Test Mode 1: DH5 (worst case)

name			nature value	log value		
max conducted power			10,47 mW	10,20 dBm		
max Antenna gain			1,35	1,30 dBi		
calculated radiated power		EIRP	14,13 mW	11,50 dBm		
measured radiated power		EIRP	14,13 mW	11,50 dBm		
Tx frequency		2402,000 MHz				
duty cycle factor						
duty cycle factor	10log(dwell time/100 ms)	declared	47,0%	-3,28 dB		
max source-based time-averaged power						
conducted power			4,92 mW	6,92 dB		
calculated radiated power		EIRP	6,64 mW	8,22 dB		
measured radiated power		EIRP	6,64 mW	8,22 dB		
M P E						
<div><div></div><div><math display="block">S = \frac{PG}{4\pi R^2}</math></div><div></div></div>		calculated with max source-based time-averaged power measured conducted power				
		r [cm]	20	2,5	1,5	0,73
		S [mW/cm²]	0,001	0,085	0,235	1,0
Limit general population		[mW/cm²]	1,0	for f = 2402,000 MHz		
Limit occupational population		[mW/cm²]	5,0			
<div><div></div><div><math display="block">S = \frac{EIRP}{4\pi R^2} = \frac{1.64 ERP}{4\pi R^2} = \frac{0.41 ERP}{\pi R^2}</math></div><div></div></div>		calculated with max source-based time-averaged power measured radiated power				
		r [cm]	20	2,5	1,5	0,73
		S [mW/cm²]	0,001	0,085	0,235	1,0