

Maximal Permissible Exposure

FCC IC : VWT315

IC : 7636A-315

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. This report shows the compliance with the limits for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 and the criteria to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in FCC 1.1307(b) and Industry Canada requirements according to RSS-102.

The following calculation presents the exposure value against the limits for occupational / controlled use based on transmit power measurement of test report G0M-1104-1064-C-1:

name			nature value	log value		
measured radiated power		ERP	0,29 mW	-5,31 dBm		
Tx frequency		911,000 MHz				
duty cycle factor						
duty cycle factor		declared	100,0%	0,00 dB		
max source-based time-averaged power						
measured radiated power		ERP	0,29 mW	-5,31 dB		
M P E						
<div><div></div><div>$S = \frac{PG}{4\pi R^2}$</div><div></div></div>		calculated with max source-based time-averaged power measured conducted power				
		r [cm]	20	2,5	1,5	n/a
		S [mW/cm ²]	n/a	n/a	n/a	0,6
Limit general population		[mW/cm ²]	0,6	for f = 911,000 MHz		
Limit occupational population		[mW/cm ²]	3,0			
<div><div></div><div>$S = \frac{EIRP}{4\pi R^2} = \frac{1.64 ERP}{4\pi R^2} = \frac{0.41 ERP}{\pi R^2}$</div><div></div></div>		calculated with max source-based time-averaged power measured radiated power				
		r [cm]	20	2,5	1,5	0,20
		S [mW/cm ²]	0,000	0,004	0,010	0.6

The requirements are fulfilled

Remarks:

Routine SAR evaluation is not required. The maximum output power is less than 1mW.