Global EMC

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

where: S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	6.13	(dBm)
Maximum peak output power at antenna input terminal:	4.10204103	(mW)
Antenna gain(typical):	-5.2	(dBi)
Maximum antenna gain:	0.30199517	(numeric)
Time Averaging:	12.3	(%)
Prediction distance:	0.2	(cm)
Prediction frequency:	2450	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.303134	(mW/cm^2)
Margin of compliance:	-5.2	(dB)
This equates to	3.03134423	W/m^2 PASS
For information This equates to	33.8055731	V/m

Note: This device does not exceed the limit as per FCC KDB 447498 ver. 5, Appendix A
so it is allowable to be used in portable exposure conditions with no restrictions on host platforms