

## RF EXPOSURE TEST

## Portable device

According to §1.1307(b)(1), 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 level in excess of the Commission's guidelines.

According to KDB 447498 (2)(a)(i)

For portable device, the power limit is 60/f(in GHz) mW

For limit 60/f is equal:

60/2.402=24.97mW

60/2.432=24.67 mW

60/2.472=24.27mW

Accoring to the follow transmitter output power (P<sub>t</sub>) formula:

 $P_t = (E \times d)^2 / (30 \times g_t)$ 

P<sub>t</sub>=transmitter output power in watts

g<sub>t</sub>=numeric gain of the transmitting antenna (unitless)

E =electric field strength in V/m

d =measurement distance in meters (m)

Maximum measured transmitter power

Frequency (MHZ)	Max EIRP (dbuv/m)	Reading (E)	Antenna Gain (g <sub>t</sub> )	measureme nt distance (d)(m)	EIRP (dBm)	EIRP (mw) (Pt)
2402	94.23	0.0514	1.78(2.5dBi)	3	-3.52	0.445
2432	96.29	0.0652	1.78(2.5dBi)	3	-1.45	0.716
2472	91.07	0.0357	1.78(2.5dBi)	3	-6.70	0.214

The max.output power E.I.R.P is 0.716mW<24.67mW

Conclusion: No SAR is required.