

FCC ID: 2AIOC-SW02U RF Exposure Report

Test Requirement: FCC Part 1.1307

Evaluation Method: FCC Part 2.1091 & KDB 447498 D01 General RF Exposure Guidance v06

Requirements

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 levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 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 procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength € (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength € (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

Evaluation Result

Frequency (MHz)	E_{Meas} (dBuV/m)	EIRP(dBm)	EIRP(mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
908.42	86.78	-8.42	0.144	0.0000286	0.61	Compliance
<p>$EIRP = E_{Meas} + 20 \log(d_{Meas}) - 104.7$, $PD = EIRP / 4\pi d^2$</p> <p>Where</p> <p>EIRP is the equivalent isotropically radiated power, in dBm</p> <p>E_{Meas} is the field strength of the emission at the measurement distance, in dBuV/m</p> <p>d_{Meas} is the measurement distance, in m</p> <p>d is the minimum mobile separation distance, d=0.2m</p>						

Result: Compliance

No SAR measurement is required.