FCC ID: 2AJ6BBHTV40D000 ATTACHMENT

RF EXPOSURE EVULATION

1.1 Limit

According to §1.1310 and §2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

Frequency range (MHz)	Electric field	Magnetic field	Power	Averaging
	Strength	Strength	density	time
1.34 - 30	824/f	2.19/f	*(180/ f²)	30
30 - 300	27.5	0.073	0.2	30
300 - 1500			f/1500	30
1500 - 100.000			<u>1.0</u>	30

F = frequency in MHz

1.2 MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

Power density at the specific separation:

$S = PG/(4R^2\pi)$	Where,		
5 - 1 G/(+R /K)	S = Maximum power density (mW/cm2)		
$S = (0.07 * 0.09) / (4 * 5^2 * \pi)$	P = Power input to the antenna (mW)		
	G = Numeric power gain of the antenna		
$S = 0.03 \text{ mW/cm}^2$	R = Distance to the center of the radiation of the antenna		
	(20 cm = limit for MPE)		

^{* =} Plane-wave equivalent power density

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1.3 MAXIMUM PERMISSIBLE EXPOSURE Prediction

- Calculated under the worst-case conditions of each mode.

(Measured power -11 dBm \pm 0.5dB)

3-1. 2.4 GHz Mode

Max Peak output Power at antenna input terminal	-11.29	dBm
Max Peak output Power at antenna input terminal	0.07	mW
Prediction distance	5	mm
Prediction frequency	2,402	MHz
Antenna Gain(typical)	1.3	dBi
Antenna Gain(numeric)	1.35	-
Power density at prediction frequency(S)	0.03	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	0.005	mW/cm ²

SAR Test exclusion thresholds for 100MHz to 6GHz at test separation distance \leq 50 mm = **Used** [(max.power of channel, including tune-up torelance, mW)/(min. test separation distance, mm)] * [\sqrt{f} (GHz)] = [0.07 / 5] * [$\sqrt{2.402}$] = 0.02 \leq 3.0, for 1g SAR

Thus, SAR for this device is not required.