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RF EXPOSURE EVALUATION

FCC ID : 2BWXS-AP100

Standard Requirement

The following FCC Rule Parts and procedures are applicable :

Part 1.1310 Radiofrequency radiation exposure limits

Part 2.1091 Radiofrequency radiation exposure evaluation : Mobile device

Table 1 below sets forth limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields.

Table 1—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

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

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MPE calculation

$$S = \text{EIRP} / (4\pi R^2)$$

Where

S : Power density (mW/cm²)

EIRP : P + T + G (dBm)

P : Maximum transmitter power (dBm)

G : Antenna gain (dBi)

R : distance to the centre of radiation of the antenna (cm)

T : Power tolerance (dB)

Safety distance(R) : 20 cm

Antenna	Conducted Output power [dBm]	Antenna Gain [dBi]	Power tolerance [dB]	Power density [mW/cm ²]	Limit [mW/cm ²]
ANT CAM	3.388	4.13	+ 1.5	0.001 6	1
ANT 0	4.582	4.13	+ 1.5	0.002 1	
ANT 1	5.340	4.13	+ 1.5	0.002 5	
ANT 2	3.335	4.13	+ 1.5	0.001 6	
ANT 3	4.534	4.13	+ 1.5	0.002 1	
ANT 4	4.382	4.13	+ 1.5	0.002 0	
Total	-	-	-	0.011 8	

Conclusion

This confirms compliance to the required Radio frequency radiation exposure limit.