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Maximum Permissible Exposure Evaluation

FCC ID: 2APPZ-H5W

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in §1.1307(b)

EUT Specification

Product Name:	IP Phone				
Trade Mark:	Fanvil				
Model/Type reference:	H5W				
Listed Model(s):	H3W				
Model Difference:	All these models are identical in the same PCB, layout and electrical circuit, Different is model number and H5W with LCD monitor which H3W without.				
Frequency band (Operating)	□BT: 2.402GHz ~ 2.480GHz □BLE: 2.402GHz ~ 2.480GHz ☑WLAN: 2.412GHz ~ 2.462GHz □RLAN: 5.180GHz ~ 5.240GHz □RLAN: 5.745GHz ~ 5.825GHz □Others				
Device category	 Portable (<20cm separation) Mobile (>20cm separation) ✓ fixed (>20cm separation) ✓ Others 				
Exposure classification	<pre>Occupational/Controlled exposure (S=5mW/cm2) Security General Population/Uncontrolled exposure (S=1mW/cm2)</pre>				
Antenna diversity	Single antenna Multiple antennas Tx diversity Rx diversity Tx/Rx diversity				
Antenna gain (Max)	3.7dBi for 2.4GHz				
Evaluation applied	MPE Evaluation				

Limits for Maximum Permissible Exposure (MPE)

Frequency	Electric Field	Magnetic Field	Power	Average					
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)	Time					
(A) Limits for Occupational/Control Exposures									
300-1500			F/300	6					
1500-100000		5		6					
(B) Limits for General Population/Uncontrol Exposures									
300-1500			F/1500	6					
1500-100000			1	30					

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Friis transmission formula: Pd=(Pout*G)\(4*pi*R²) Where Pd= Power density in mW/cm² Pout= output power to antenna in mW G= gain of antenna in linear scale Pi= 3.1416 R= distance between observation point and center of the radiator in cm Pd the limit of MPE 1mW/cm². If we know the maximum gain of the antenna and total power input to

the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Measurement Result

2.4G WIFI									
Туре	Channel frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm ²)	Power density Limits (mW/cm ²)		
802.11 g	2412	19.10	19±1	20	3.7	0.04664	1		
802.11 g	2437	19.37	19±1	20	3.7	0.04664	1		
802.11 g	2462	19.22	19±1	20	3.7	0.04664	1		

Note

For a more detailed features description, please refer to the RF Test Report.