



FCC RF Exposure

EUT Description:Intelligent AromaDiffuser V Series ModelNo.:V06 Pro, V06 FCC ID: 2BEDL-V06 Equipment type: mobile device

Test procedures according to the technical standards: KDB 447498 D01 V06 and FCC 2.1091.

1. Limits

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)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)	
	(A) Limit	s for Occupational/Controlled E	xposures		
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	
300-1500			f/300 6		
1500-100,000			5	6	
	(B) Limits fo	r General Population/Uncontrol	led 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		
300-1500			f/1500	30	
1500-100,000			1.0	30	

Limits for Maximum Permissible Exposure (MPE)

F = frequency in MHz

Formula: Pd = (Pout*G)/($4^* \pi * r^2$)

Where :

 $Pd = power density in mW/cm^2$,

Pout = output power to antenna in mW;

G = gain of antenna in linear scale,

π = 3.14;

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



3. Test Result of RF Exposure Evaluation

Output	Max	Antenna	Power	Limit	Result
power(dBm)	tune-up(mW)	Gain(dBi)	Density	(mW/cm²)	
			at R=20cm		
			(mW/cm²)		
11.18	13.12	-0.58	0.00229	1.0	Pass
12.03	15.96	-0.58	0.00278	1.0	Pass
11.11	12.91	-0.58	0.00193	1.0	Pass

Conclusion: No SAR is required