



Report No.: FCS202306074W02

FCC RF Exposure

EUT Description:ACTIVE SPEAKER

Model No.: B112,B115 FCC ID:2ADDV-B112

Equipment type: Mobile equipment

KDB 447498 D01 General RF Exposure Guidance v06

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)

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) Limit	ts for Occupational/Controlled E	xposures		
0.3-3.0	614	1.63	*(100)	*(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/Uncontroll	ed 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	

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,

 $\pi = 3.14$;

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 power	Antenna	Power Density	Limit	Result
	(dBm/mW)	Gain(dBi)	at R=20cm	(mW/cm ²)	
			(mW/cm ²)		
Low	-4.360/0.3664	2.36	0.00013	1.0	Pass
Middle	-2.819/0.5225	2.36	0.00018	1.0	Pass
High	-3.510/0.4457	2.36	0.00015	1.0	Pass

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Conclusion: No SAR is required