



FCC RF Exposure

Report No.: FCS202501286W04

EUT Description: VIDEO PROJECTOR

ModelNo.:X2,X200,A10,A1,A2,A3,A4,A5,A6,A7,A8

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)

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)	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* π *r²)

Where:

Pd = power density in mW/cm²,

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



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WIFI

WIFI					
	Output power (dBm/ mW)	Antenna Gain(dBi)	Power Density at R=20cm (mW/cm²)	Limit (mW/cm²)	Result
U-NII 1 802.11a	6.39/4.36	4.18	0.00227	1.0	Pass
U-NII 1 802.11n(HT20)	6.26/4.23	4.18	0.00221	1.0	Pass
U-NII 1 802.11n(HT40)	7.34/5.42	4.18	0.00283	1.0	Pass
U-NII 1 802.11ac(HT20)	6.56/4.53	4.18	0.00236	1.0	Pass
U-NII 1 802.11ac(HT40)	7.38/5.47	4.18	0.00285	1.0	Pass
U-NII 1 802.11ac(HT80)	2.18/1.65	4.18	0.00086	1.0	Pass
U-NII 3 802.11a	13.11/20.46	4.18	0.01067	1.0	Pass
U-NII 3 802.11n(HT20)	13.02/20.04	4.18	0.01045	1.0	Pass
U-NII 3 802.11n(HT40)	7.58/5.73	4.18	0.00299	1.0	Pass
U-NII 3 802.11ac(HT20)	13.13/20.56	4.18	0.01072	1.0	Pass
U-NII 3 802.11ac(HT40)	7.39/5.48	4.18	0.00286	1.0	Pass
U-NII 3 802.11ac(HT80)	10.88/12.25	4.18	0.00639	1.0	Pass
802.11b	2.61/1.82	1.73	0.00054	1.0	Pass
802.11g	3.90/2.45	1.73	0.00073	1.0	Pass
802.11n20	3.84/2.42	1.73	0.00072	1.0	Pass





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ВТ

	Output	Max	Antenna	Power	Limit	Result
	power(dBm)	tune-up(mW)	Gain(dBi)	Density	(mW/cm ²)	
				at R=20cm		
				(mW/cm²)		
2402	0.55	1.14	1.73	0.00034	1.0	Pass
2441	0.28	1.07	1.73	0.00032	1.0	Pass
2480	0.44	1.11	1.73	0.00033	1.0	Pass

Note:2.4G / 5G cannot work at the same time and do not support the same development. BT / WIFI cannot work at the same time and do not support the same development.

Conclusion: No SAR is required