



Report No.: FCS202208015W01

FCC RF Exposure

EUT Description:Blue Ocean Dream Galaxy Projector

ModelNo.:WH-E14A

FCC ID: 2A2Y2-WH-E14A

Equipment type: mobile equipment

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	14 1.63 *(100)		30
1.34–30	824/f	2.19/f	2.19/f *(180/f ²)	
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

Modulation	Channel Freq. (MHz)	Conduct ed power (dBm)	Max tune-up power (mW)	Antenna Gain (dBi)	Antenna gain numeric	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
	2402	3.913	2.462	-0.58	0.87	0.00043	1
GFSK	2441	4.823	3.035	-0.58	0.87	0.00053	1
	2480	3.791	2.393	-0.58	0.87	0.00041	1

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Conclusion: the max result : 0.00053≤ 1.0 compliance with FCC's RF Exposure.