FCC ID: 2AKGT-63870

RF Exposure Evaluation

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/cm²)	Averaging time (minutes)
SC STE STAND OF	(A) Limits	for Occupational/Controlled	Exposures	SCOTES SING OF
0.3–3.0	614	1.63° chi giri	*(100)	CONTROL OF THE LOCAL PROPERTY OF THE PARTY O
3.0–30	1842/f	4.89/f	*(900/f²)	THE CO OF THE THE
30–300	5 61.4 K	0.163	[1.0] Color	ET NE 6 STEE
300–1500	CAS SING OF S	STELLING OF COLUMN CO	f/300	Call testing 60 000
1500–100,000	OF THE STAN OF	of the little of the state of	S C 5 (5) (1) (1)	OF STATE OF THE BEE
THE WO OF THE THE	(B) Limits for	General Population/Uncontro	olled Exposure	NE OC TESTIMO
0.3–1.34	614	1.63	*(100)	30 %
1.34–30	824/f	2.19/f	*(180/f²)	1 15 A 30 C
30–300	27.5	0.073	0.25	30,10
300–1500	S OC THE STAR IN	O O THE THE SO OF THE	f/1500	8 30 ST
1500–100,000	STIME OF THE THE	The secretary was a second	1.0 ° ch	51 30 K

f = frequency in MHz

Friis transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

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 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.

Test Procedure

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

Test Result of RF Exposure Evaluation

Antenna gain=-4.5dBi

Test Frequency (MHz)	Minimum Separation Distance (cm)	Output Power (dBm)	Target power (dBm)	Target power (mW)	Antenna Gain (Numeric)	Power Density Limit (mW/cm²)	Power Density At 20 cm (mW/cm ²)	Test Results
2402	20.00	-15.69	£15±1	0.04	0.35		0.000003	Pass

Note

- 1. use the maximum E-field strength(79.51dBuV/m) for the RF exposure evaluation
- 2. E(dBuV/m)=EIRP(dBm)-95.2 for distance 3m so the EIRP=79.51dBuV/m-95.2=-15.69dBm

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure.