

FCC ID: SYW-SEC5KLCCTMM

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)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)	
a the star of a	(A) Limits	for Occupational/Controlled	Exposures	CTES STRAND OC	
0.3–3.0	614	2 ¹ .63 ⁰ 1.63 ⁰	*(100)	Control Street	
3.0–30	1842/f	4.89/f	*(900/f ²)	6 6	
30–300	5 ¹⁰ 50 61.4	0.163	1.0 com	ET IN 6 CT IS	
300–1500	THE STREAM OF THE	State of the state of	f/300	STELESTING OF ST	
1500-100,000	of the star of		\$ \$ 5 S	S A GIN NO	
STAR OF THE STAR	(B) Limits for	General Population/Uncontro	olled Exposure	AND OF THE STAR	
0.3–1.34	614	1.63	*(100)	5 30° AS	
1.34–30	824/f	2.19/f	*(180/f ²)	30	
30–300	27.5	0.073	0.2	30	
300–1500	e contractions	a the star of the	f/1500	30 5 20	
1500–100,000	STREE OF THE STREET		1.0 ° (¹	STIME 30 STILLST	

Limits for Maximum Permissible Exposure (MPE)

f = frequency in MHz

Friis transmission formula: Pd = (Pout*G)/(4*pi*r²)

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.

Page



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Test Result of RF Exposure Evaluation

Antenna gain=5.22dBi

Test Frequency (MHz)	Minimum Separation Distance (cm)	Output Power (dBm)	Target power (dBm)	Target power (mW)	Antenna Gain (Numeric)	Power Density Limit (mW/cm ²)	Power Density At 20 cm (mW/cm ²)	Test Results
5743.8	20.00	-8.99	-9±1	0.158	3.33		0.0001	Pass

Note:

- 1. use the maximum E-field strength(86.21dBuV/m) for the RF exposure evaluation
- 2. E(dBuV/m)=EIRP(dBm)-95.2 for distance 3m so the EIRP=86.21dBuV/m-95.2=-8.99dBm

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

Page

2 of 2