

US Tech Test Report:
FCC ID:
Test Report Number:
Issue Date:
Customer:
Model:

FCC Part 15 Subpart C, Part 15.247
2A8GI-V1FRSKY
26-0131
June 26, 2026
Rocket Drones
V1 FRSKY

Maximum Permissible Exposure to RF (MPE) CFR 15.247 (i), CFR 1.1310 (e)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S** as per the respective limits in Table 1 below, at a distance, d, of 20 cm (Mobile condition) from the EUT.

TABLE 1—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)
Limits for General Population/Uncontrolled 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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

Therefore, for:

MPE for 5725-5850 MHz:

Limit: 1.0 mW/cm²

Peak Power (dBm) = +13.28 dBm

Peak Power (Watts) = 0.021 W

Gain of Transmit Antenna = +3.68 dBi = 2.3 numeric (max gain antenna)

d = Distance = 20 cm = 0.2 m

$$\begin{aligned} S &= (PG/4\pi d^2) = \text{EIRP}/4A = 0.021*(2.3)/4*\pi*0.2*0.2 \\ &= 0.0483/0.5030 = 0.09602 \text{ W/m}^2 \\ &= (0.09602 \text{ W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.009602 \text{ mW/cm}^2 \end{aligned}$$

which is << less than S = 1.0 mW/cm²