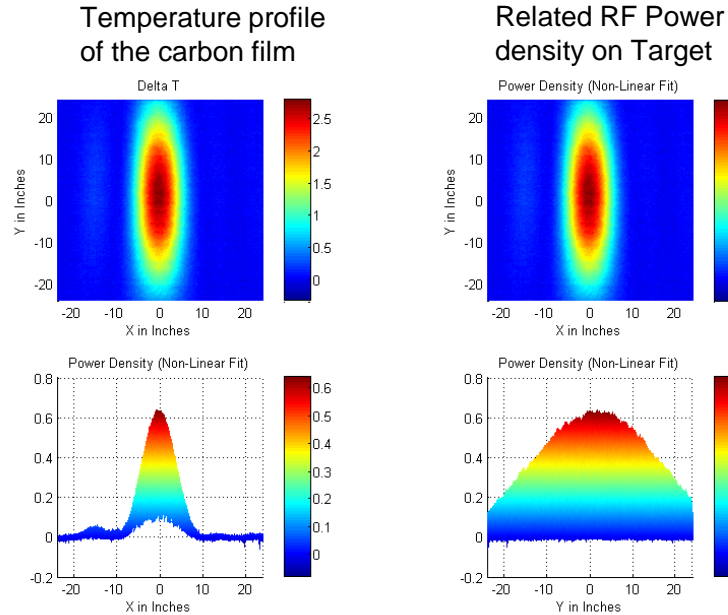
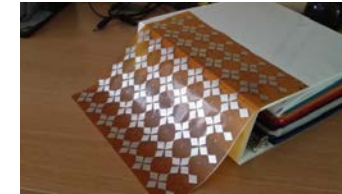


Experimental Purpose and Details

- The carbon sheet is the target and upon 92 GHz radiation of the pulses the power is absorbed raising the temperature of the film where the IR camera image can be collected. The image is then cross-referenced to the power density radiated
- Main Purpose:
 - To calibrate the source since the last time this was performed was 5 years ago (Relationship between IR image to RF power transmitted)
 - To measure wireless power beaming receivers where a small panel will be placed on the carbon film which will transduce the 92 GHz radiation into DC power through its integrated rectifier circuit (rectenna)



A small rectenna panel will be placed on the carbon film to absorb the Millimeter wave power and turn it into DC power



IR Camera

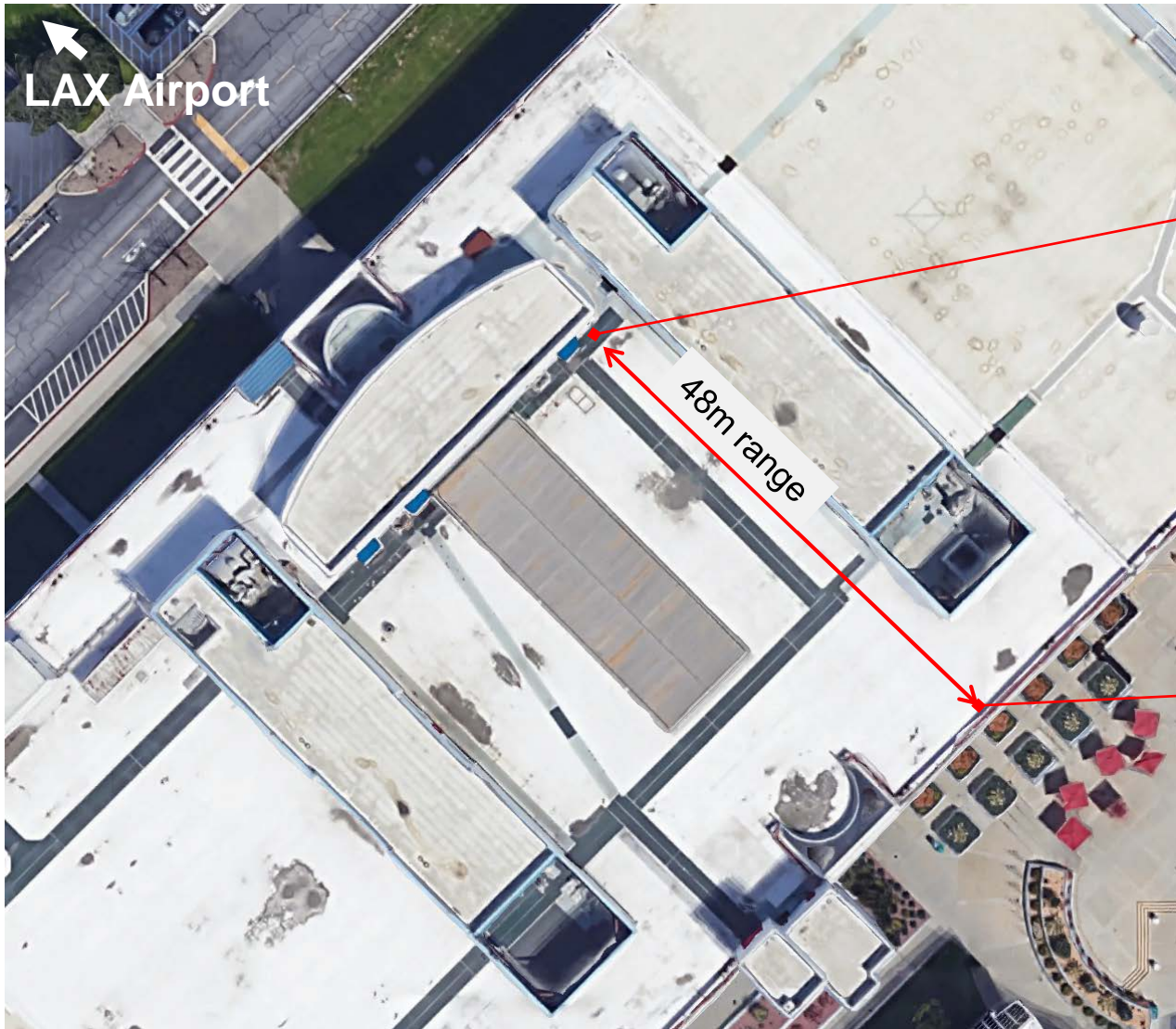


92.75 GHz transmitter (aperture)

Range = 50 m



FCC License Request for the Forecheck system



Transmitter Forecheck-1



Target Absorber panel

Stop Buzzer: Hooman Kazemi - 909-294-9543