

Technical Description:

The EMAG Beacon Monopulse Sensor System will be tested as both a K-band radar tracking system and as a K-band data link. Steerable AESA antennas will be used on both ends of the link. One AESA will be stationed at the Outdoor Antenna Range. The other AESA will be mounted on a vehicle, such as a Boeing FunMover van, and driven around Smartt Field while measuring and communicating. Center frequency is $22.5 \text{ GHz} \pm 250 \text{ MHz}$. Peak transmit power is 200 mW. Instantaneous bandwidth of the radar tracking system is 2.5 GHz. Instantaneous bandwidth in data link mode is 2 MHz.

Location:

20km around 38-55-36N and 090-25-24W in St. Charles, Missouri.

To cover Boeing Buildings and Labs located within the radius. The only outdoor testing performed will be at the coordinates provided on Smartt Field.

Power:

Peak Envelope Power: 200mW

Mean or Average Power: 2mW

Frequency Information:

20750 MHz – 23250 MHz with 2G50W1C Emission Designator.

Center frequency of 22000 MHz

Stop Buzzer:

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