

File: L1816201 - 1

Company: Lockheed Martin Corporation

FRN 0002149359

Site Name, State GRAND PRAIRIE, TX
Call Sign/County /Dallas
City Grand Prairie

TEMPORARY FIXED LOCATION WITHIN 0.4 KM RADIUS OF TRANSMIT COORDINATES

Latitude N (NAD83) 32 42 43.5
Longitude W (NAD83) 097 01 54.0
Azimuth (degrees) VARIES FROM 20 TO 160 DEGREES
Elevation AMSL (ft/m) VARIOUS

Transmit Ant Model PHASED ARRAY
Antenna Manufacturer DRAGON ANTENNA
Gain/Beamwidth (dbi/deg) 27.2/7.0
Antenna Height AGL (ft/m) 16.4/5.0

Receive Ant Model OMNI
Antenna Manufacturer ALL MANUFACTURERS
Gain/Beamwidth (dbi/deg) 10.0/360.0
Antenna Height AGL (ft/m) VARIOUS

Equipment Manufacturer ALL MANUFACTURERS
Equipment Model TEST SIGNAL
Stability (%) 0.001

Transmit Frequencies (MHz) (6764.5. - 6825.5)V

Emission	Tx Power (dBm)	EIRP (dBm)
1M00D1D	10.0	37.2

*** Experimental License Coordination ***

*** Testing will only occur during daylight hours ***

*** Co-pole antenna pattern attached for reference ***

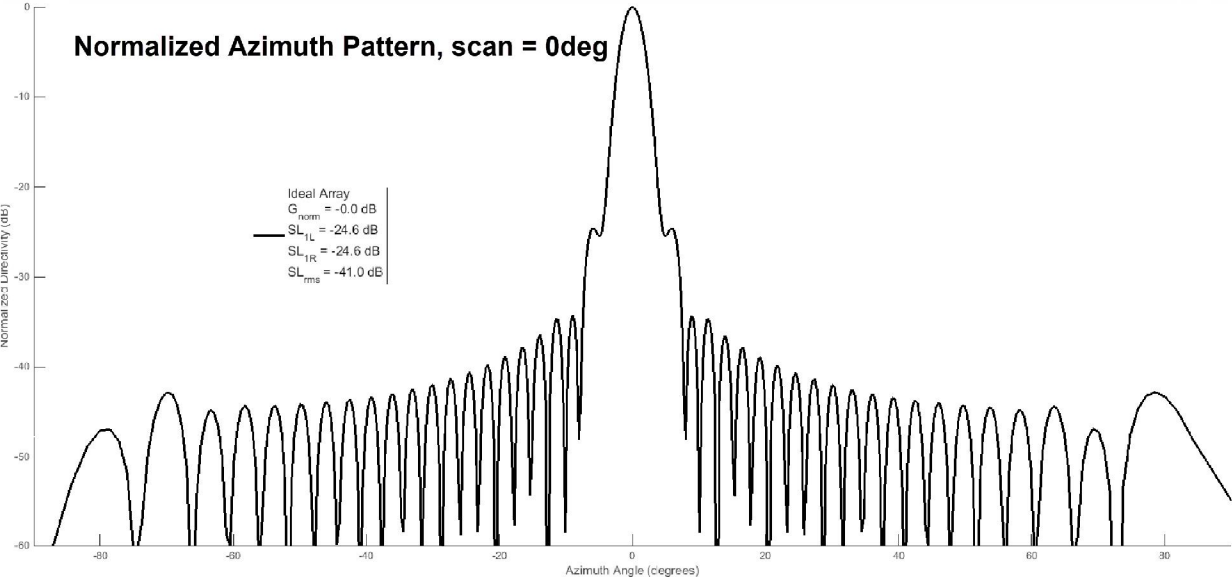
*** Google Earth kmz file shows the center of the transmit area ***

*** Path shown on kmz does not represent the actual transmit path ***

*** Please contact Robert Barnes at 972-603-1790 to report suspected interference ***

Dragon Antenna Data for FCC Permit

Antenna Patterns at Boresight and 45°



Antenna Gain (Tx = Rx)		
Antenna Directivity	33	dBi
Array Width	1.15	m
Array Height	0.61	m
Array Physical Area	0.7015	m ²
Operating Wavelength	0.05	m
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Antenna Losses	5.75	dB
VSWR	0.5	dB
Feed Horn	0.25	dB
Spillover	1	dB
Slats	3	dB
Radome	0.5	dB
Sidelobe Weighting	0.5	dB
Antenna Gain	27.25	dB