

Micronet Communications, Inc.
812 Lexington Dr
Plano, Texas 75075
972-422-7200

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File: M1905115 - 1
Original PCN Date: April 12, 2019
Company: Lockheed Martin Corporation
FRN 0002149359

Site Name, State Cazenovia, NY
Call Sign/County /Onondaga
Latitude N (NAD83) 42 55 44.0
Longitude W (NAD83) 075 55 30.0
Azimuth (degrees) Varies from 105 deg through 140 deg
Elevation AMSL (ft/m) 1311.3/399.7

Transmit Ant Model PHASED ARRAY
Antenna Manufacturer DRAGON ANTENNA
Gain/Beamwidth (dbi/deg) 27.0/2.0
Antenna Height AGL (ft/m) 80.0/24.4

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

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

Transmit Frequencies (MHz) (6540.5 - 6549.5)V
(6710.5 - 6719.5)V

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--- Side A --- Emission Tx Power (dBm) EIRP (dBm) -----  
1M00D1D 94.0 121.0
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*** Coordination Prior to update of experimental license. ***

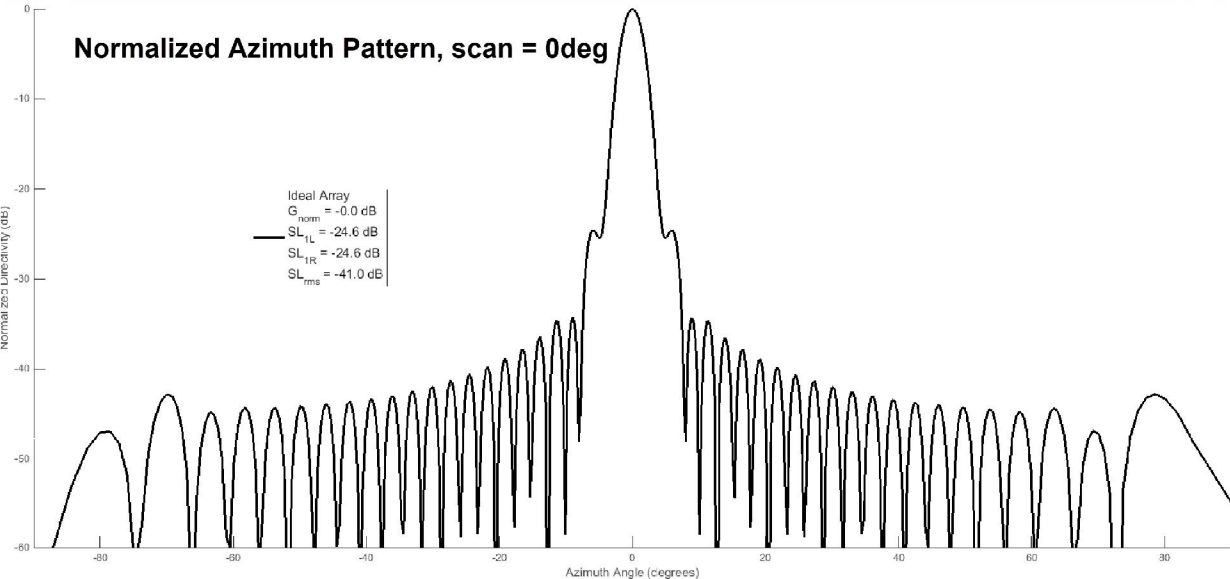
*** Testing will only occur during daylight hours. ***

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

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