

Prodelin 3.8 Meter Antenna 1385
2 Degree Antenna Statement
Fixed Satellite Service
C-Band 5925 – 6425 MHz

The 6 GHz antenna pattern contained with this application meets the antenna performance standards set forth in CFR §25.209.

The 4 GHz antenna pattern contained with this application exceeds the CFR §25.209 sidelobe specification for the sidelobe envelope in the $\pm 1^\circ$ to 1.5° region by a maximum of 6 dB, at 4 GHz. Outside the main beam, the antenna meets the requirements of §25.209.

There are currently no satellites located within 1.5° of the applicant's desired satellites.

The applicant agrees to accept any adjacent satellite interference in the 4 GHz receive band as a result of the performance of the antenna in the 1° to 1.5° region. The applicant understands that no adjacent satellite interference protection will be available in the 1° to 1.5° regions. The applicant understands that adjacent satellite interference protection applies only to the extent of the criteria set forth in §25.209.

Per §25.115(h)(4) the earth station applicant certifies that it will limit its pointing error to 0.5.

This Prodelin 3.84 meter antenna does comply with 25.209 of the FCC Rules and Regulations. Pursuant to Section 25.218 of the FCC Rules and Regulations an applicant may request routine processing of an application if it meets the applicable off-axis EIRP envelope.

The attached antenna patterns and corresponding table's present the data outlined in Section 25.218 and therefore the applicant request routine processing of this application.

Routine Licensing for Antennas with Low Power Densities

Pursuant to §25.134 (a)(2)¹ of the Rules and Regulations ("Regulations") of the Federal Communications Commission ("Commission"), the operator of an antenna smaller than 4.5m in the 4/6 GHz frequency bands must demonstrate that unacceptable interference will not be caused to any and all affected adjacent satellites. The proposed antenna in this application is smaller than 4.5m. Hence, a demonstration that interference will not be caused to adjacent satellites is now presented.

Based on this information and the antenna patterns attached as an exhibit with this application, sufficient information has been provided to enable the Commission to grant this application for license.

25.115 C-Band Compliance Table		EIRP at 6.175 GHz	Worst Case -5.28 dB			Worst Case -5.28 dB		Worst Case -12.01 dB
Off-Axis Angle (deg.)	FCC Mask 25.218(d)(1) (dBW/4kHz z)	Geo Plane EIRP (dBW/4kHz z)	Difference Between EIRP Density and FCC Mask	FCC Mask 25.218(d)(2) (dBW/4kHz z)	Horizon Plane EIRP (dWB/4kHz z)	Difference Between EIRP Density and FCC Mask	Elevation Plane EIRP (dBW/4kHz z)	Difference Between EIRP Density and FCC Mask
-180	-12.7	-29.0	-16.3	-12.7	-29.0	-16.3		
-175	-12.7	-28.0	-15.3	-12.7	-19.0	-6.3		
-170	-12.7	-18.0	-5.3	-12.7	-25.0	-12.3		
-165	-12.7	-22.0	-9.3	-12.7	-19.0	-6.3		
-160	-12.7	-23.0	-10.3	-12.7	-21.0	-8.3		
-155	-12.7	-20.0	-7.3	-12.7	-21.0	-8.3		
-150	-12.7	-18.0	-5.3	-12.7	-22.0	-9.3		
-145	-12.7	-20.0	-7.3	-12.7	-24.0	-11.3		
-140	-12.7	-36.0	-23.3	-12.7	-29.0	-16.3		
-135	-12.7	-26.0	-13.3	-12.7	-29.0	-16.3		
-130	-12.7	-24.0	-11.3	-12.7	-28.0	-15.3		
-125	-12.7	-26.0	-13.3	-12.7	-30.0	-17.3		
-120	-12.7	-27.0	-14.3	-12.7	-27.0	-14.3		
-115	-12.7	-28.0	-15.3	-12.7	-29.0	-16.3		
-110	-12.7	-32.0	-19.3	-12.7	-23.0	-10.3		
-105	-12.7	-27.0	-14.3	-12.7	-22.0	-9.3		
-100	-12.7	-34.0	-21.3	-12.7	-29.0	-16.3		
-95	-12.7	-36.0	-23.3	-12.7	-31.0	-18.3		
-90	-12.7	-32.0	-19.3	-12.7	-33.0	-20.3		
-85	-12.7	-36.0	-23.3	-12.7	-34.0	-21.3		
-80	-12.7	-34.0	-21.3	-12.7	-31.0	-18.3		
-75	-12.7	-36.0	-23.3	-12.7	-28.0	-15.3		
-70	-12.7	-39.0	-26.3	-12.7	-31.0	-18.3		
-65	-12.7	-32.0	-19.3	-12.7	-31.0	-18.3		
-60	-12.7	-34.0	-21.3	-12.7	-27.0	-14.3		
-55	-12.7	-30.0	-17.3	-12.7	-29.0	-16.3		
-50	-12.7	-28.0	-15.3	-12.7	-24.0	-11.3		
-48	-12.7	-28.0		-12.7				
-45	-12.0	-32.0	-19.9	-12.0	-31.0	-18.9		
-40	-10.8	-30.0	-19.2	-10.8	-31.0	-20.2		
-35	-9.3	-27.0	-17.7	-9.3	-29.0	-19.7		
-30	-7.6	-26.0	-18.4	-7.6	-27.0	-19.4		
-25	-5.6	-27.0	-21.3	-5.6	-29.0	-23.3		
-20	-3.2	-26.0	-22.8	-3.2	-26.0	-22.8		
-15	-0.1	-24.0	-23.9	-0.1	-22.0	-21.9		
-10	4.3	-30.0	-34.3	4.3	-22.0	-26.3		
-9.9	4.4	-29.0	-33.4	4.4	-21.0	-25.4		
-9.8	4.5	-28.0	-32.5	4.5	-20.0	-24.5		
-9.7	4.6	-22.0	-26.6	4.6	-19.0	-23.6		
-9.6	4.7	-20.0	-24.7	4.7	-18.0	-22.7		
-9.5	4.9	-18.0	-22.8	4.9	-18.0	-22.8		

-9.4	5.0	-20.0	-25.0	5.0	-18.0	-23.0		
-9.3	5.1	-22.0	-27.1	5.1	-20.0	-25.1		
-9.2	5.3	-24.0	-29.3	5.2	-22.0	-27.2		
-9.1	5.3	-26.0	-31.3	5.3	-24.0	-29.3		
-9	5.3	-28.0	-33.3	5.4	-26.0	-31.4	-13.2	-18.7
-8.9	5.3	-27.0	-32.3	5.6	-23.0	-28.5	-13.9	-19.4
-8.8	5.3	-26.0	-31.3	5.7	-21.0	-26.7	-14.4	-20.1
-8.7	5.3	-25.0	-30.3	5.8	-18.0	-23.8	-15.2	-21.0
-8.6	5.3	-23.0	-28.3	5.9	-20.0	-25.9	-16.0	-21.9
-8.5	5.3	-21.0	-26.3	6.1	-24.0	-30.0	-17.3	-23.4
-8.4	5.3	-22.0	-27.3	6.2	-22.0	-28.2	-17.6	-23.8
-8.3	5.3	-23.0	-28.3	6.3	-21.0	-27.3	-18.0	-24.3
-8.2	5.3	-27.0	-32.3	6.5	-20.0	-26.4	-17.0	-23.4
-8.1	5.3	-23.0	-28.3	6.6	-19.0	-25.6	-16.6	-23.2
-8	5.3	-21.0	-26.3	6.7	-17.0	-23.7	-15.2	-21.9
-7.9	5.3	-20.5	-25.8	6.9	-17.0	-23.8	-14.5	-21.3
-7.8	5.3	-20.0	-25.3	7.0	-17.0	-24.0	-13.9	-20.9
-7.7	5.3	-19.0	-24.3	7.1	-22.0	-29.1	-13.5	-20.6
-7.6	5.3	-19.0	-24.3	7.3	-20.0	-27.3	-13.3	-20.6
-7.5	5.3	-21.0	-26.3	7.4	-24.0	-31.4	-12.6	-20.0
-7.4	5.3	-23.0	-28.3	7.6	-20.0	-27.5	-11.7	-19.3
-7.3	5.3	-24.0	-29.3	7.7	-20.0	-27.7	-10.8	-18.5
-7.2	5.3	-24.0	-29.3	7.9	-17.0	-24.8	-9.8	-17.6
-7.1	5.3	-26.0	-31.3	8.0	-19.0	-27.0	-8.4	-16.4
-7.0	5.2	-26.0	-31.2	8.2	-23.0	-31.2	-7.6	-15.8
-6.9	5.3	-25.0	-30.3	8.3	-22.0	-30.3	-6.7	-15.1
-6.8	5.5	-24.0	-29.5	8.5	-21.0	-29.5	-6.4	-14.9
-6.7	5.6	-22.0	-27.6	8.6	-19.0	-27.6	-6.2	-14.9
-6.6	5.8	-20.0	-25.8	8.8	-17.0	-25.8	-6.6	-15.4
-6.5	6.0	-18.0	-24.0	9.0	-15.0	-24.0	-7.2	-16.2
-6.4	6.1	-19.0	-25.1	9.1	-15.0	-24.1	-8.7	-17.8
-6.3	6.3	-20.0	-26.3	9.3	-16.0	-25.3	-10.5	-19.8
-6.2	6.5	-22.0	-28.5	9.5	-17.0	-26.5	-14.0	-23.5
-6.1	6.7	-23.0	-29.6	9.7	-17.0	-26.6	-21.3	-31.0
-6.0	6.8	-24.0	-30.8	9.8	-18.0	-27.8	-29.5	-39.4
-5.9	7.0	-21.0	-28.0	10.0	-16.0	-26.0	-17.1	-27.1
-5.8	7.2	-19.0	-26.2	10.2	-13.0	-23.2	-12.9	-23.1
-5.7	7.4	-17.0	-24.4	10.4	-15.0	-25.4	-10.4	-20.8
-5.6	7.6	-19.0	-26.6	10.6	-17.0	-27.6	-9.3	-19.9
-5.5	7.8	-19.0	-26.8	10.8	-19.0	-29.8	-8.9	-19.7
-5.4	8.0	-18.0	-26.0	11.0	-17.0	-28.0	-8.7	-19.7
-5.3	8.2	-16.0	-24.2	11.2	-15.0	-26.2	-9.2	-20.3
-5.2	8.4	-15.0	-23.4	11.4	-12.0	-23.4	-9.4	-20.8
-5.1	8.6	-14.0	-22.6	11.6	-9.0	-20.6	-10.4	-22.0
-5.0	8.8	-9.0	-17.8	11.8	-7.0	-18.8	-11.1	-22.9
-4.9	9.0	-8.0	-17.0	12.0	-8.0	-20.0	-11.0	-23.1
-4.8	9.3	-8.0	-17.2	12.3	-10.0	-22.2	-9.4	-21.7
-4.7	9.5	-14.0	-23.5	12.5	-13.0	-25.5	-7.8	-20.3
-4.6	9.7	-12.0	-21.7	12.7	-16.0	-28.7	-6.1	-18.8
-4.5	10.0	-10.0	-19.9	13.0	-18.0	-30.9	-4.9	-17.9
-4.4	10.2	-12.0	-22.2	13.2	-14.0	-27.2	-4.1	-17.3
-4.3	10.5	-14.0	-24.4	13.5	-10.0	-23.4	-3.7	-17.1

-4.2	10.7	-15.0	-25.7	13.7	-12.0	-25.7	-3.8	-17.5
-4.1	11.0	-16.0	-27.0	14.0	-14.0	-28.0	-4.1	-18.0
-4.0	11.2	-18.0	-29.2	14.2	-18.0	-32.2	-5.0	-19.3
-3.9	11.5	-21.0	-32.5	14.5	-16.0	-30.5	-6.8	-21.3
-3.8	11.8	-14.0	-25.8	14.8	-12.0	-26.8	-9.1	-23.9
-3.7	12.1	-13.0	-25.1	15.1	-10.0	-25.1	-11.4	-26.5
-3.6	12.4	-11.0	-23.4	15.4	-8.0	-23.4	-17.2	-32.6
-3.5	12.7	-9.0	-21.7	15.7	-6.0	-21.7	-31.9	-47.6
-3.4	13.0	-11.0	-24.0	16.0	-8.0	-24.0	-18.3	-34.3
-3.3	13.3	-13.0	-26.3	16.3	-10.0	-26.3	-12.8	-29.1
-3.2	13.7	-15.0	-28.7	16.7	-12.0	-28.7	-9.6	-26.3
-3.1	14.0	-14.0	-28.0	17.0	-15.0	-32.0	-7.5	-24.5
-3.0	14.4	-9.0	-23.4	17.4	-7.0	-24.4	-5.8	-23.1
-2.9	14.7	-7.0	-21.7		-5.0			
-2.8	15.1	-4.0	-19.1		-2.0			
-2.7	15.5	-8.0	-23.5		-4.0			
-2.6	15.9	-10.0	-25.9		-5.0			
-2.5	16.4	-18.0	-34.3		-6.0			
-2.4	16.8	-10.0	-26.8		-5.0			
-2.3	17.3	-8.0	-25.2		-4.0			
-2.2	17.7	-4.0	-21.7		-3.0			
-2.1	18.2	-1.0	-19.2		-1.0			
-2.0	18.8	-1.0	-19.8		-1.0			
-1.9	19.3	-1.0	-20.3		-2.0			
-1.8	19.9	-1.0	-20.9		-2.0			
-1.7	20.5	0.0	-20.5		1.0			
-1.6	21.2	1.0	-20.2		3.0			
-1.5	21.9	4.0	-17.9		6.0			
-1.4		10.0			10.0			
-1.3		13.0			13.0			
-1.2		16.0			16.0			
-1.1		19.0			19.0			
-1.0		21.0			21.0			
-0.9		22.0			22.0			
-0.8		23.0			23.0			
-0.7		24.0			24.0			
-0.6		25.0			25.0			
-0.5		26.0			26.0			
-0.4		27.0			27.0			
-0.3		27.0			27.0			
-0.2		29.0			29.0			
-0.1		30.0			30.0			
0.0		31.9			31.9			
0.1		30.0			30.0			
0.2		29.0			29.0			
0.3		28.0			28.0			
0.4		27.0			27.0			
0.5		26.0			26.0			
0.6		25.0			25.0			
0.7		24.0			24.0			
0.8		23.0			23.0			
0.9		22.0			22.0			

1.0		21.0			21.0			
1.1		19.0			19.0			
1.2		18.0			18.0			
1.3		13.0			13.0			
1.4		10.0			10.0			
1.5	21.9	8.0	-13.9		6.0			
1.6	21.2	5.0	-16.2		1.0			
1.7	20.5	3.0	-17.5		-4.0			
1.8	19.9	0.0	-19.9		-3.0			
1.9	19.3	0.0	-19.3		-2.0			
2.0	18.8	1.0	-17.8		-1.0			
2.1	18.2	1.0	-17.2		-5.0			
2.2	17.7	-4.0	-21.7		-9.0			
2.3	17.3	-9.0	-26.2		-7.0			
2.4	16.8	-14.0	-30.8		-5.0			
2.5	16.4	-4.0	-20.3		-2.0			
2.6	15.9	-10.0	-25.9		-5.0			
2.7	15.5	-8.0	-23.5		-8.0			
2.8	15.1	-4.0	-19.1		-11.0			
2.9	14.7	-9.0	-23.7		-14.0			
3.0	14.4	-12.0	-26.4	17.4	-16.0	-33.4	-3.2	-20.6
3.1	14.0	-10.0	-24.0	17.0	-14.0	-31.0	-6.3	-23.3
3.2	13.7	-8.0	-21.7	16.7	-11.0	-27.7	-9.2	-25.8
3.3	13.3	-6.0	-19.3	16.3	-9.0	-25.3	-14.2	-30.5
3.4	13.0	-5.0	-18.0	16.0	-7.0	-23.0	-19.7	-35.7
3.5	12.7	-3.0	-15.7	15.7	-4.0	-19.7	-16.9	-32.6
3.6	12.4	-5.0	-17.4	15.4	-9.0	-24.4	-11.1	-26.5
3.7	12.1	-6.0	-18.1	15.1	-17.0	-32.1	-8.1	-23.2
3.8	11.8	-9.0	-20.8	14.8	-15.0	-29.8	-6.0	-20.8
3.9	11.5	-12.0	-23.5	14.5	-13.0	-27.5	-4.6	-19.2
4.0	11.2	-18.0	-29.2	14.2	-11.0	-25.2	-4.0	-18.2
4.1	11.0	-14.0	-25.0	14.0	-10.0	-24.0	-3.4	-17.4
4.2	10.7	-15.0	-25.7	13.7	-9.0	-22.7	-3.3	-17.0
4.3	10.5	-14.0	-24.4	13.5	-8.0	-21.4	-3.5	-17.0
4.4	10.2	-12.0	-22.2	13.2	-14.0	-27.2	-4.3	-17.5
4.5	10.0	-10.0	-19.9	13.0	-19.0	-31.9	-5.8	-18.7
4.6	9.7	-12.0	-21.7	12.7	-17.0	-29.7	-7.5	-20.2
4.7	9.5	-14.0	-23.5	12.5	-15.0	-27.5	-10.4	-22.9
4.8	9.3	-8.0	-17.2	12.3	-14.0	-26.2	-12.4	-24.7
4.9	9.0	-8.0	-17.0	12.0	-12.0	-24.0	-13.0	-25.0
5.0	8.8	-9.0	-17.8	11.8	-15.0	-26.8	-11.8	-23.6
5.1	8.6	-14.0	-22.6	11.6	-17.0	-28.6	-10.1	-21.7
5.2	8.4	-15.0	-23.4	11.4	-19.0	-30.4	-9.2	-20.6
5.3	8.2	-16.0	-24.2	11.2	-21.0	-32.2	-8.8	-19.9
5.4	8.0	-18.0	-26.0	11.0	-19.0	-30.0	-9.2	-20.2
5.5	7.8	-17.0	-24.8	10.8	-16.0	-26.8	-9.8	-20.6
5.6	7.6	-9.0	-16.6	10.6	-12.0	-22.6	-11.9	-22.5
5.7	7.4	-17.0	-24.4	10.4	-16.0	-26.4	-15.3	-25.7
5.8	7.2	-19.0	-26.2	10.2	-19.0	-29.2	-22.7	-32.9
5.9	7.0	-21.0	-28.0	10.0	-21.0	-31.0	-26.8	-36.8
6.0	6.8	-24.0	-30.8	9.8	-24.0	-33.8	-17.3	-27.1
6.1	6.7	-23.0	-29.6	9.7	-20.0	-29.6	-13.6	-23.3

6.2	6.5	-22.0	-28.5	9.5	-17.0	-26.5	-11.5	-20.9
6.3	6.3	-20.0	-26.3	9.3	-14.0	-23.3	-9.8	-19.2
6.4	6.1	-19.0	-25.1	9.1	-16.0	-25.1	-8.8	-17.9
6.5	6.0	-18.0	-24.0	9.0	-19.0	-28.0	-8.3	-17.2
6.6	5.8	-20.0	-25.8	8.8	-21.0	-29.8	-8.2	-17.0
6.7	5.6	-22.0	-27.6	8.6	-24.0	-32.6	-8.4	-17.0
6.8	5.5	-24.0	-29.5	8.5	-22.0	-30.5	-8.9	-17.3
6.9	5.3	-15.0	-20.3	8.3	-20.0	-28.3	-9.3	-17.6
7.0	5.2	-22.0	-27.2	8.2	-18.0	-26.2	-9.4	-17.6
7.1	5.3	-26.0	-31.3	8.0	-15.0	-23.0	-9.4	-17.4
7.2	5.3	-25.0	-30.3	7.9	-14.0	-21.8	-9.1	-17.0
7.3	5.3	-24.0	-29.3	7.7	-18.0	-25.7	-8.6	-16.3
7.4	5.3	-23.0	-28.3	7.6	-21.0	-28.5	-7.9	-15.5
7.5	5.3	-21.0	-26.3	7.4	-23.0	-30.4	-7.6	-15.0
7.6	5.3	-20.0	-25.3	7.3	-22.0	-29.3	-7.5	-14.8
7.7	5.3	-19.0	-24.3	7.1	-20.0	-27.1	-7.8	-15.0
7.8	5.3	-20.0	-25.3	7.0	-19.0	-26.0	-8.3	-15.3
7.9	5.3	-19.0	-24.3	6.9	-21.0	-27.8	-8.9	-15.8
8.0	5.3	-21.0	-26.3	6.7	-22.0	-28.7	-9.4	-16.1
8.1	5.3	-22.0	-27.3	6.6	-24.0	-30.6	-10.7	-17.3
8.2	5.3	-26.0	-31.3	6.5	-21.0	-27.4	-12.5	-19.0
8.3	5.3	-22.0	-27.3	6.3	-19.0	-25.3	-15.2	-21.5
8.4	5.3	-22.0	-27.3	6.2	-17.0	-23.2	-18.6	-24.8
8.5	5.3	-21.0	-26.3	6.1	-15.0	-21.0	-24.8	-30.9
8.6	5.3	-23.0	-28.3	5.9	-16.0	-21.9	-28.1	-34.1
8.7	5.3	-23.0	-28.3	5.8	-18.0	-23.8	-22.5	-28.3
8.8	5.3	-24.0	-29.3	5.7	-20.0	-25.7	-19.9	-25.6
8.9	5.3	-25.0	-30.3	5.6	-15.0	-20.5	-18.4	-24.0
9.0	5.3	-27.0	-32.3	5.4	-24.0	-29.4	-18.3	-23.7
9.1	5.3	-28.0	-33.3	5.3	-25.0	-30.3	-18.7	-24.0
9.2	5.3	-26.0	-31.3	5.2	-26.0	-31.2	-19.1	-24.3
9.3	5.1	-22.0	-27.1	5.1	-27.0	-32.1	-19.0	-24.1
9.4	5.0	-18.0	-23.0	5.0	-28.0	-33.0	-18.2	-23.2
9.5	4.9	-22.0	-26.8	4.9	-29.0	-33.8	-16.2	-21.1
9.6	4.7	-22.0	-26.7	4.7	-30.0	-34.7	-15.3	-20.0
9.7	4.6	-24.0	-28.6	4.6	-26.0	-30.6	-13.8	-18.5
9.8	4.5	-26.0	-30.5	4.5	-23.0	-27.5	-13.0	-17.5
9.9	4.4	-26.0	-30.4	4.4	-21.0	-25.4	-12.4	-16.8
10.0	4.3	-24.0	-28.3	4.3	-18.0	-22.3	-12.1	-16.4
15.0	-0.1	-25.0	-24.9	-0.1	-24.0	-23.9	-18.4	-18.3
20.0	-3.2	-24.0	-20.8	-3.2	-26.0	-22.8	-19.4	-16.2
25.0	-5.6	-24.0	-18.3	-5.6	-28.0	-22.3	-32.5	-26.8
30.0	-7.6	-29.0	-21.4	-7.6	-28.0	-20.4	-19.6	-12.0
35.0	-9.3	-29.0	-19.7	-9.3	-27.0	-17.7	-32.4	-23.1
40.0	-10.8	-29.0	-18.2	-10.8	-29.0	-18.2	-30.8	-20.0
45.0	-12.0	-34.0	-21.9	-12.0	-29.0	-16.9		
48	-12.7			-12.7	-31.0	-18.2		
50.0	-12.7	-31.0	-18.3	-12.7	-29.0	-16.3		
55.0	-12.7	-33.0	-20.3	-12.7	-29.0	-16.3		
60.0	-12.7	-34.0	-21.3	-12.7	-28.0	-15.3		
65.0	-12.7	-33.0	-20.3	-12.7	-29.0	-16.3		
70.0	-12.7	-33.0	-20.3	-12.7	-29.0	-16.3		

75.0	-12.7	-34.0	-21.3	-12.7	-30.0	-17.3		
80.0	-12.7	-38.0	-25.3	-12.7	-31.0	-18.3		
85.0	-12.7	-39.0	-26.3	-12.7	-32.0	-19.3		
90.0	-12.7	-42.0	-29.3	-12.7	-33.0	-20.3		
95.0	-12.7	-34.0	-21.3	-12.7	-29.0	-16.3		
100.0	-12.7	-34.0	-21.3	-12.7	-28.0	-15.3		
105.0	-12.7	-28.0	-15.3	-12.7	-23.0	-10.3		
110.0	-12.7	-29.0	-16.3	-12.7	-29.0	-16.3		
115.0	-12.7	-27.0	-14.3	-12.7	-27.0	-14.3		
120.0	-12.7	-26.0	-13.3	-12.7	-26.0	-13.3		
125.0	-12.7	-24.0	-11.3	-12.7	-29.0	-16.3		
130.0	-12.7	-30.0	-17.3	-12.7	-25.0	-12.3		
135.0	-12.7	-28.0	-15.3	-12.7	-24.0	-11.3		
140.0	-12.7	-32.0	-19.3	-12.7	-25.0	-12.3		
145.0	-12.7	-29.0	-16.3	-12.7	-24.0	-11.3		
150.0	-12.7	-27.0	-14.3	-12.7	-22.0	-9.3		
155.0	-12.7	-26.0	-13.3	-12.7	-21.0	-8.3		
160.0	-12.7	-24.0	-11.3	-12.7	-21.0	-8.3		
165.0	-12.7	-22.0	-9.3	-12.7	-22.0	-9.3		
170.0	-12.7	-22.0	-9.3	-12.7	-18.0	-5.3		
175.0	-12.7	-24.0	-11.3	-12.7	-27.0	-14.3		
180.0	-12.7	-29.0	-16.3	-12.7	-29.0	-16.3		

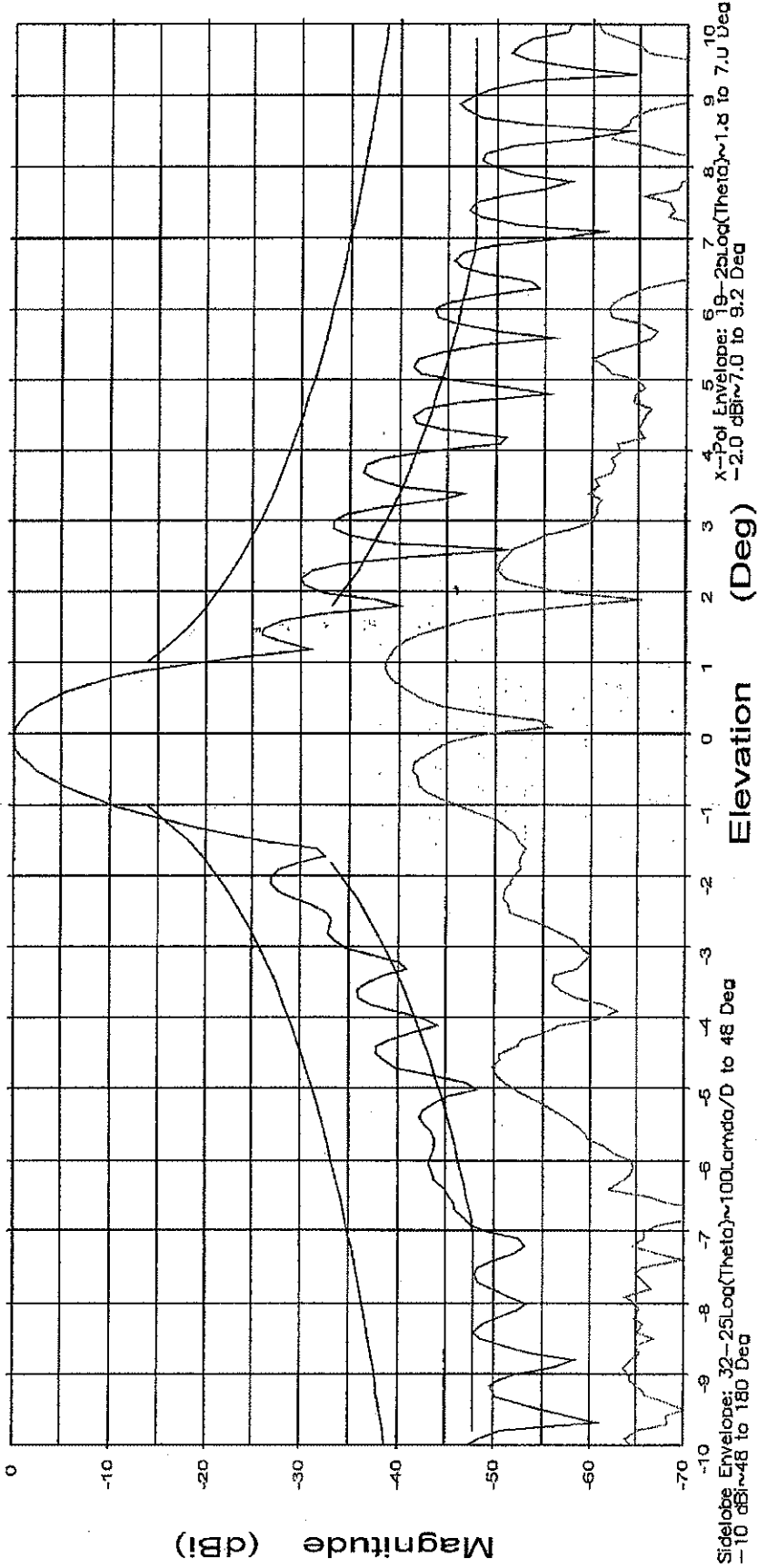
Frequency : 5.845 GHz

3.8M C-Band Series 1385
Linear Polarized Rx/Tx Antenna System

File: See Legend

Operator: Keny Poovey
Ser. no.: 06870
Channel: ch1

Tx pol: Vert. Rx pol: Vert.



Overlays
1748 06 dat-ant_under_test
1748 30 dat-ant_under_test

Cal. file	table	channel	units
1748 06.dat	SGA-70	ch1	dBi
1748 30.dat	SGA-70	ch1	dBi

General Dynamics SATCOM Technologies
East Maitlen Test Facility
4488 Lawing Chapel Church Road
Maitlen, North Carolina 28650

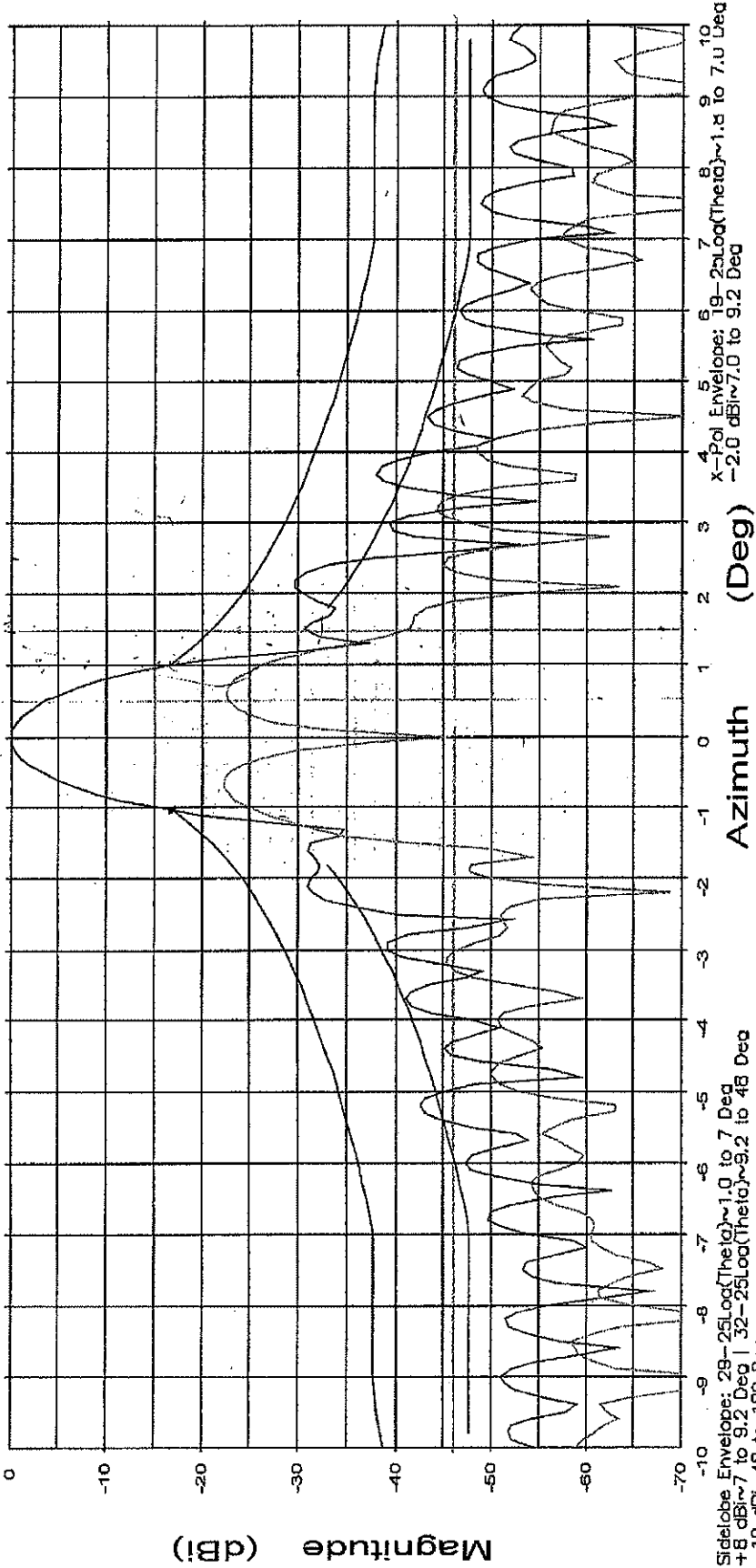
Frequency : 5.845 GHz

3.8M C-Band Series 1385
Linear Polarized Rx/Tx Antenna System

File: See Legend

Operator: Keny Poovey
Ser. no.: 06870
Channel: ch1

Tx pol: Vert Rx pol: Vert



Side-lobe Envelope: 29-25Loa(Theta)~1.0 to 7 Deg
+8 dBi~7 to 9.2 Deg | 32-25Loa(Theta)~9.2 to 48 Deg
-10 dBi~48 to 180 Deg

Overlays
1748 03.dat-ant_under_test
1748 07.dat-ant_under_test

table	channel	units
SGA-70	ch1	dBi
SGA-70	ch1	dBi

General Dynamics SATCOM Technologies
East Maiden Test Facility
4488 Lawing Chapel Church Road
Maiden, North Carolina 28650

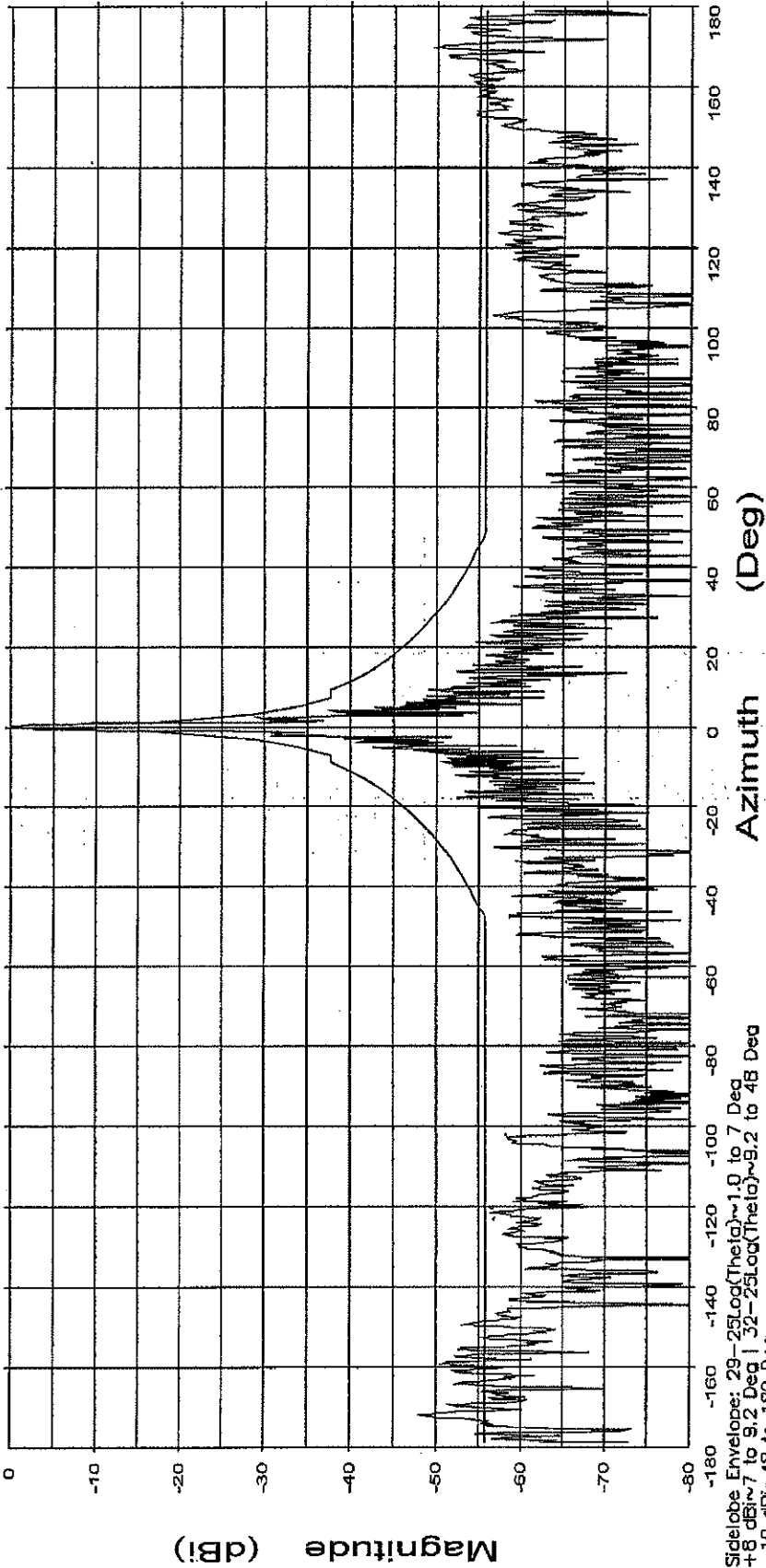
Frequency : 5.845 GHz

3.8M C-Band Series 1385
Linear Polarized Rx/Tx Antenna System

File: See Legend

Operator: Keny Poovey
Ser. no.: 06870
Channel: ch1

Tx pol: Vert. Rx pol: Vert.



Side lobe Envelope: 29-25Log(The|a|)~1.0 to 7 Deg
+8 dBi~7 to 9.2 Deg | 32-25Log(The|a|)~9.2 to 48 Deg
-10 dBi~48 to 180 Deg

Overlays
1748 03.dat-ant_under_test
Cal. file units
1748 03.dat dBi

channel table
ch1 SGA-70

General Dynamics SATCOM Technologies
East Maiden Test Facility
4488 Lawing Chapel Church Road
Malden, North Carolina 28657

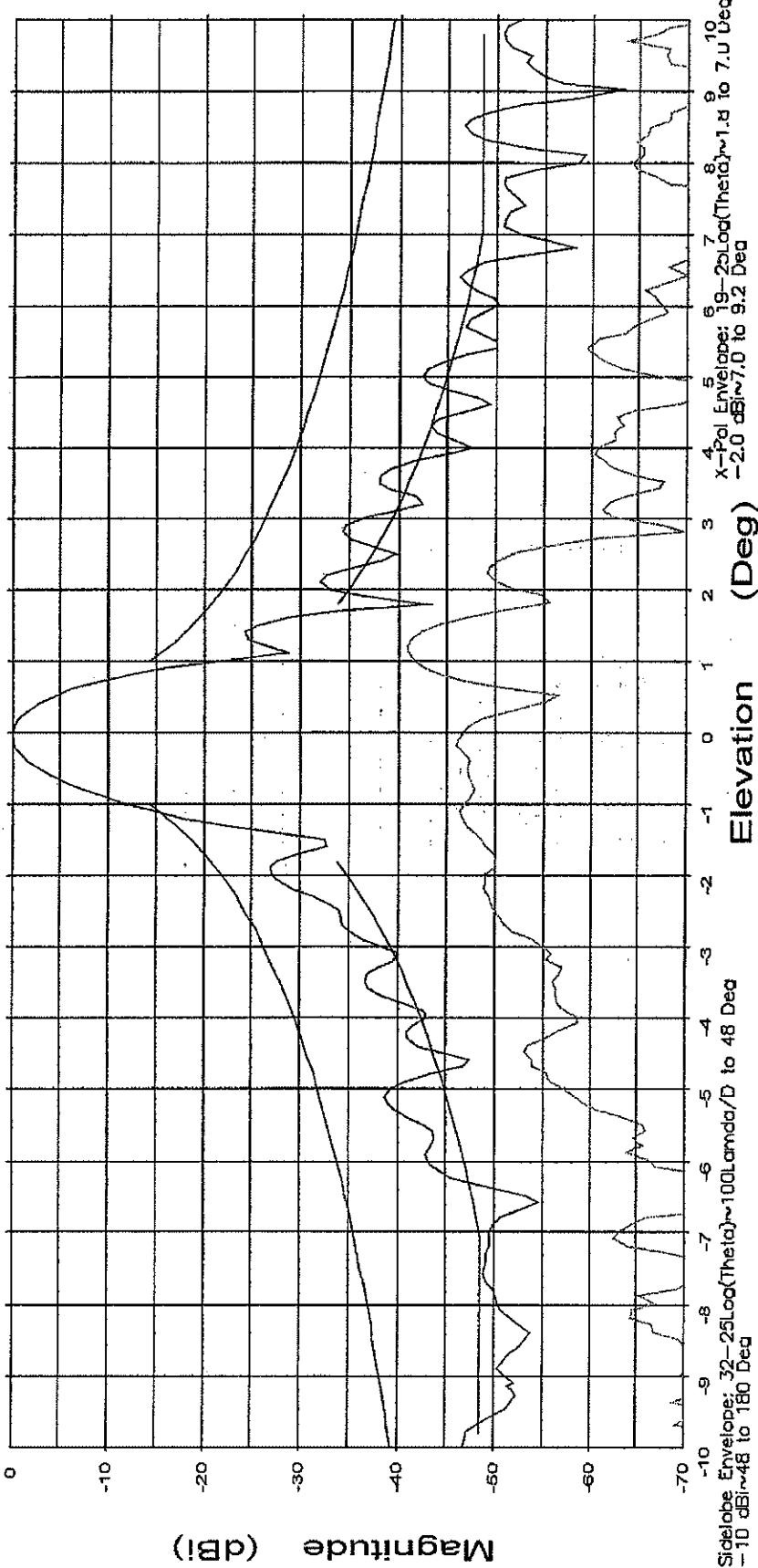
Frequency : 6.138 GHz

3.8M C-Band Series 1385
Linear Polarized Rx/Tx Antenna System

File: See Legend

Operator: Kerry Poovey
Ser. no.: 06870
Channel: ch1

Tx pol: Vert. Rx pol: Vert.



Overlays
1748 06.dat-ant_under_test
1748 30.dat-ant_under_test

Cal. file
1748 06.dat
1748 30.dat

table
SGA-70
SGA-70

channel
ch1
ch1

units
dBi
dBi

General Dynamics SATCOM Technologies
East Maiden Test Facility
4488 Lawing Chapel Church Road
Maiden, North Carolina 28650

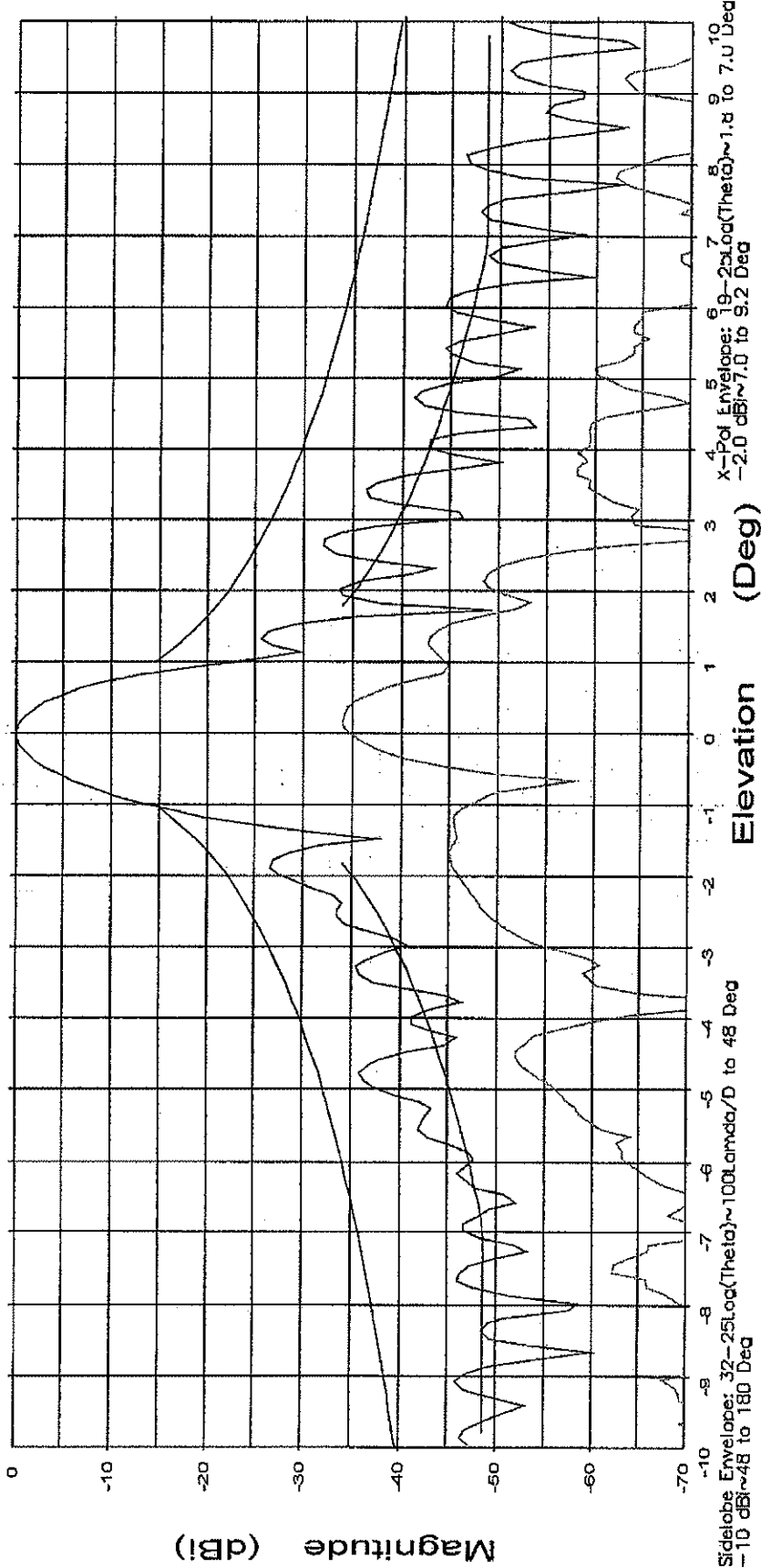
File: See Legend

3.8M C-Band Series 1385
Linear Polarized Rx/Tx Antenna System

Frequency : 6.425 GHz

Operator: Keny Poovey
Ser. no.: 06870
Channel: ch1

Tx pol: Vert. Rx pol: Vert.



Overlays
1748 06.dat-ant_under_test
1748 30.dat-ant_under_test

Cal. file
1748 06.dat
1748 30.dat

table
SGA-70
SGA-70

channel
ch1
ch1

units
dBi
dBi

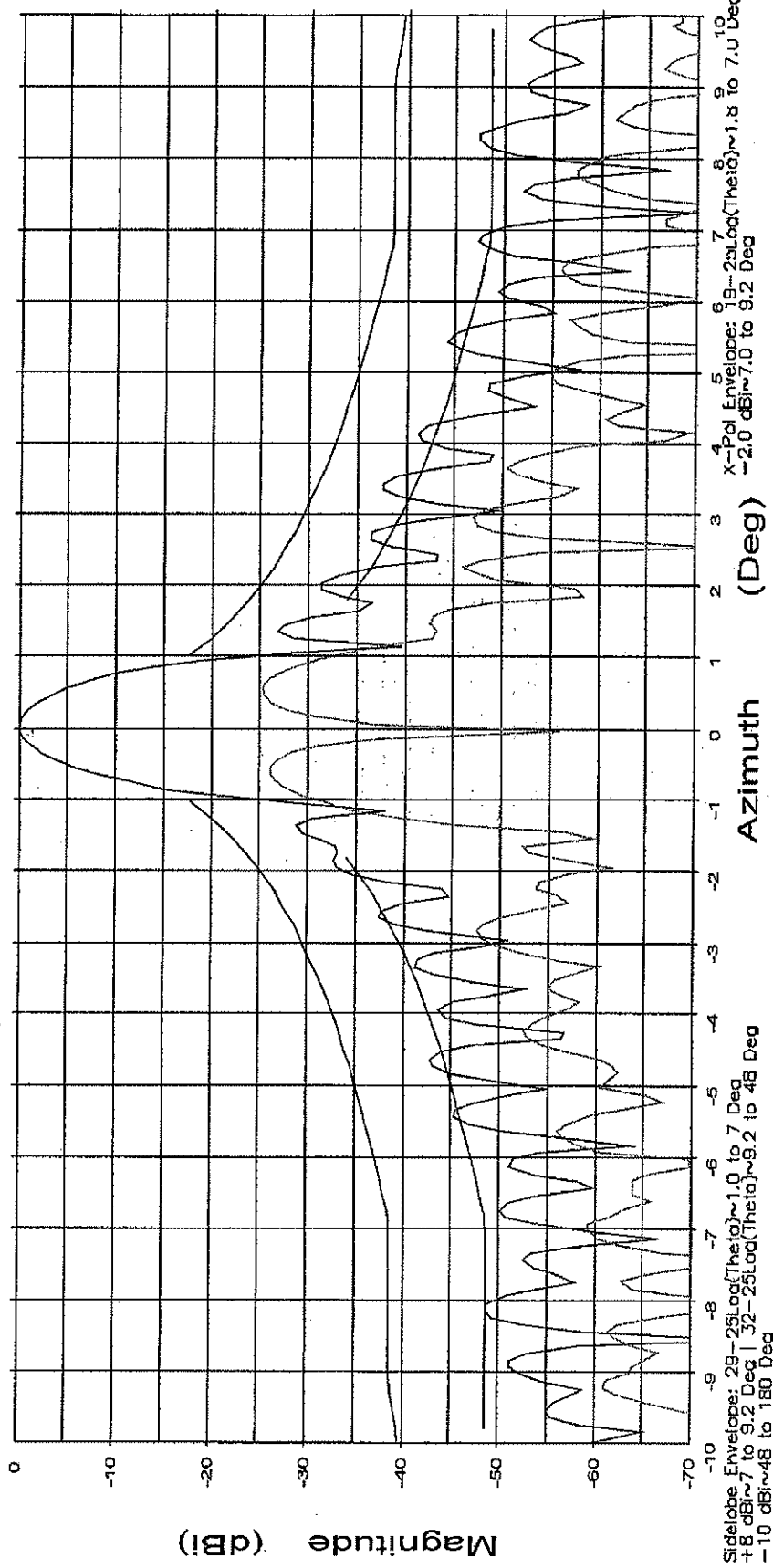
General Dynamics SATCOM Technologies
East Maiden Test Facility
4488 Lawing Chapel Church Road
Maiden, North Carolina 28650

Frequency : 6.425 GHz

3.8M C-Band Series 1385
Linear Polarized Rx/Tx Antenna System

Operator: Keny Poovey
Ser. no.: 06870
Channel: ch1

Tx pol: Vert. Rx pol: Vert.



Overlays
1748 03.dat-ant_under_test
1748 07.dat-ant_under_test

table	channel	units
SGA-70	ch1	dBi
SGA-70	ch1	dBi

Cal. file
1748 03.dat
1748 07.dat

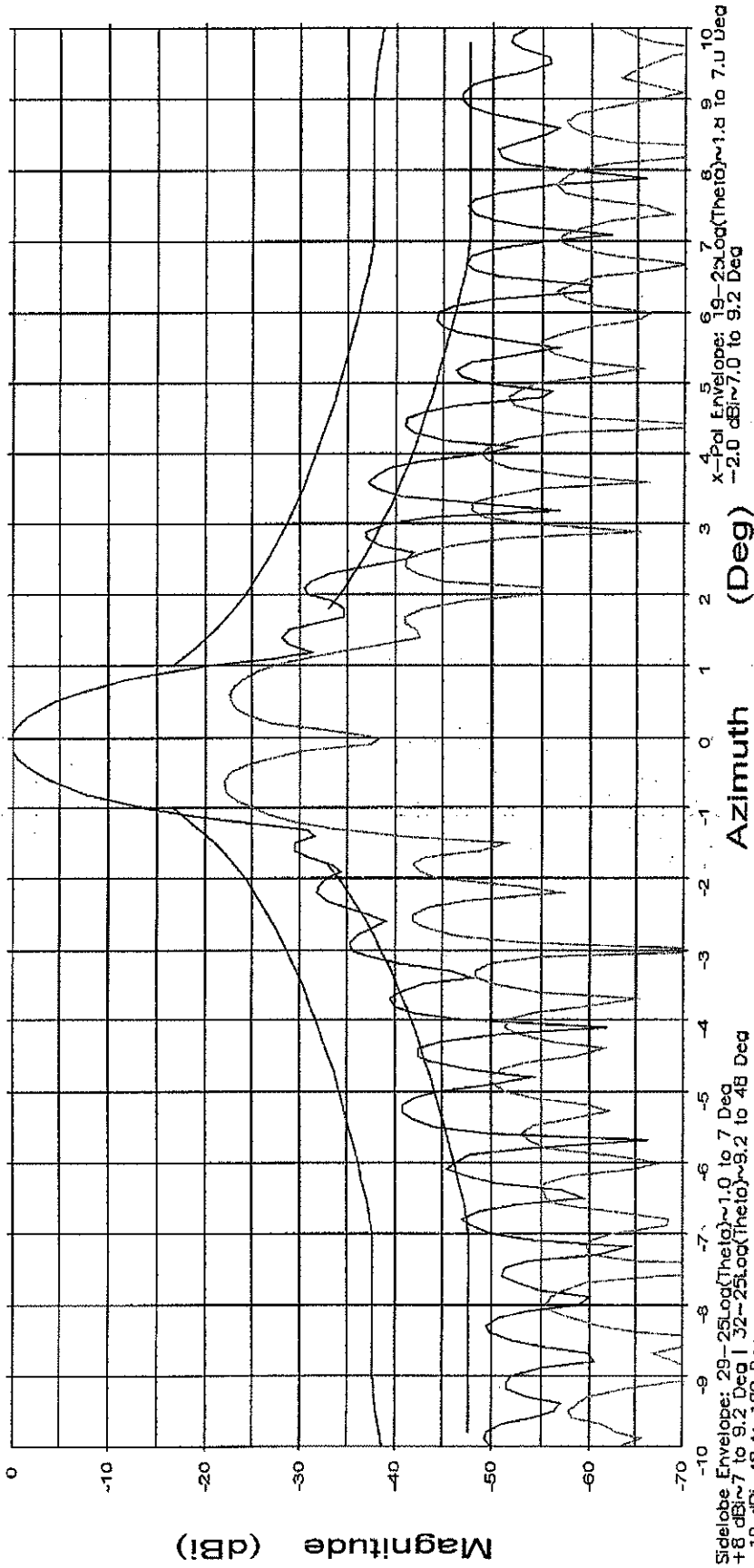
General Dynamics SATCOM Technologies
East Maiden Test Facility
4488 Lawing Chapel Church Road
Maiden, North Carolina 28650

Frequency : 5.845 GHz

3.8M C-Band Series 1385
Linear Polarized Rx/Tx Antenna System

Operator: Keny Poovey
Ser. no.: 06870
Channel: ch1

Tx pol: Horiz. Rx pol: Horiz.



Overlays
1748 19.dat-ant_under_test
1748 23.dat-ant_under_test

Cal. file	table	channel	units
1748 19.dat	SGA-70	ch1	dBi
1748 23.dat	SGA-70	ch1	dBi

General Dynamics SATCOM Technologies
East Malden Test Facility
4488 Lawing Chapel Church Road
Malden, North Carolina 28650

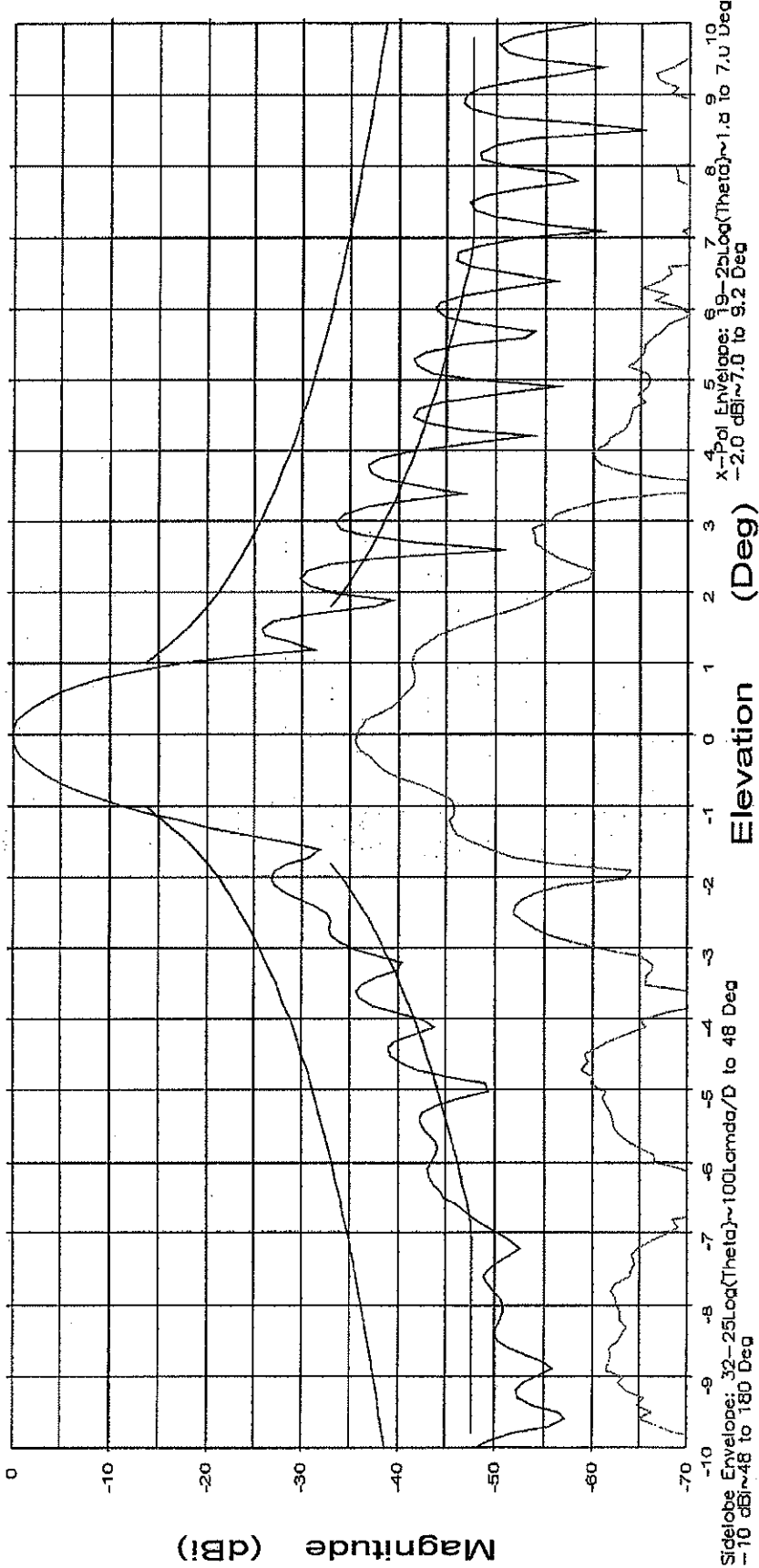
Frequency : 5.845 GHz

3.8M C-Band Series 1385
Linear Polarized Rx/Tx Antenna System

File: See Legend

Operator: Kery Poovey
Ser. no.: 06870
Channel: ch1

Tx pol: Horiz. Rx pol: Horiz.



Overlays
1748 24.dat-ant_under_test
1748 29.dat-ant_under_test

Cal. file
1748 24.dat
1748 29.dat

table
SGA-70
SGA-70

channel
ch1
ch1

units
dBi
dBi

General Dynamics SATCOM Technologies
East Maiden Test Facility
4488 Lawing Chapel Church Road
Maiden, North Carolina 28650

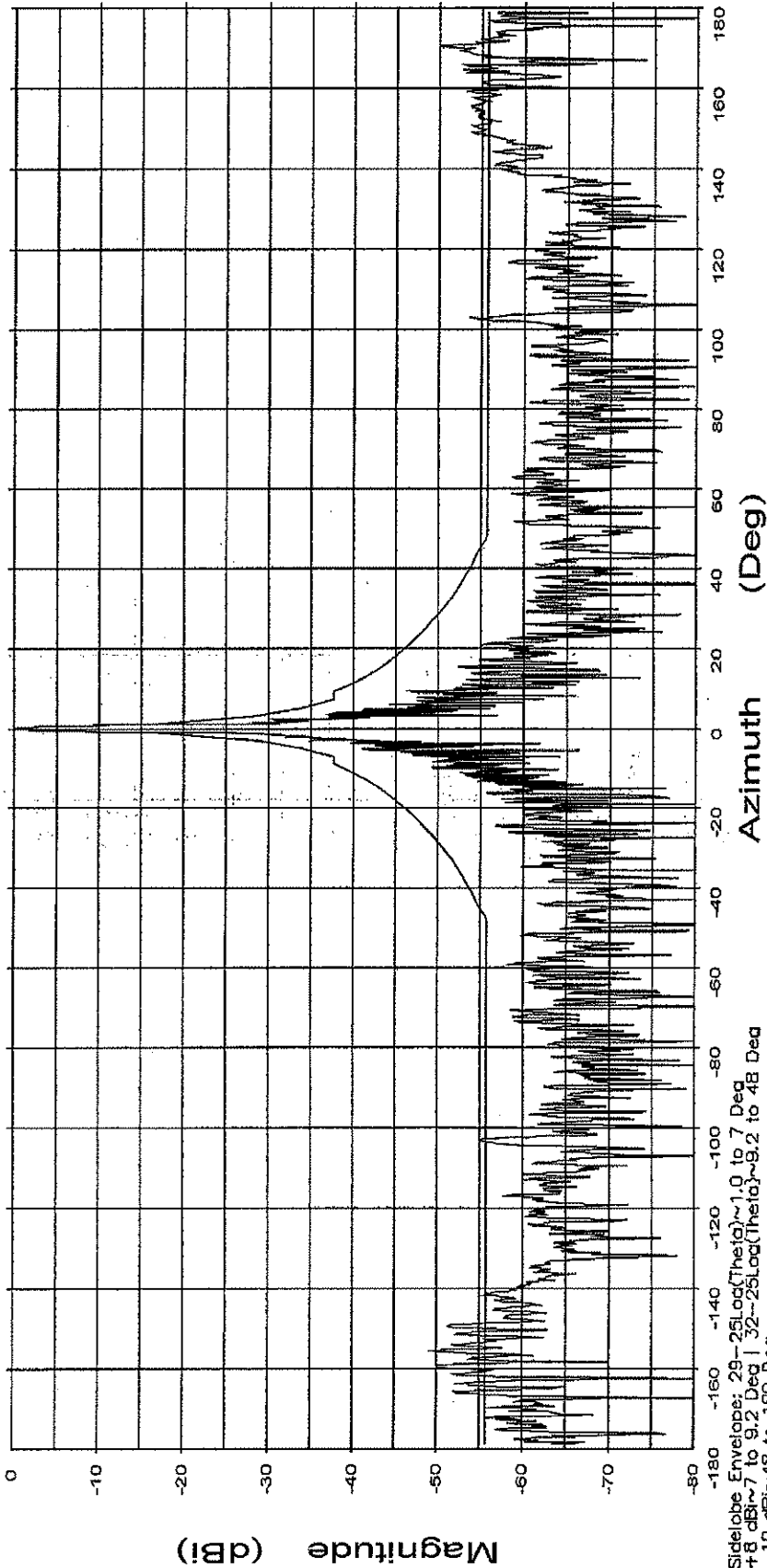
Frequency : 5.845 GHz

3.8M C-Band Series 1385
Linear Polarized Rx/Tx Antenna System

File: See Legend

Operator: Keny Poovey
Ser. no.: 06870
Channel: ch1

Tx pol: Horiz. Rx pol: Horiz.



Side lobe Envelope: 29-25Log(Theta)~1.0 to 7 Deg
+8 dBi~-7 to 9.2 Deg | 32-25Log(Theta)~9.2 to 48 Deg
-10 dBi~48 to 180 Deg

Overlays
1748 19.dat-ant_under_test
1748 19.dat
table SGA-70
channel ch1
units dBi

General Dynamics SATCOM Technologies
East-Maiden Test Facility
4488 Lawing Chapel Church Road
Maiden, North Carolina 28650

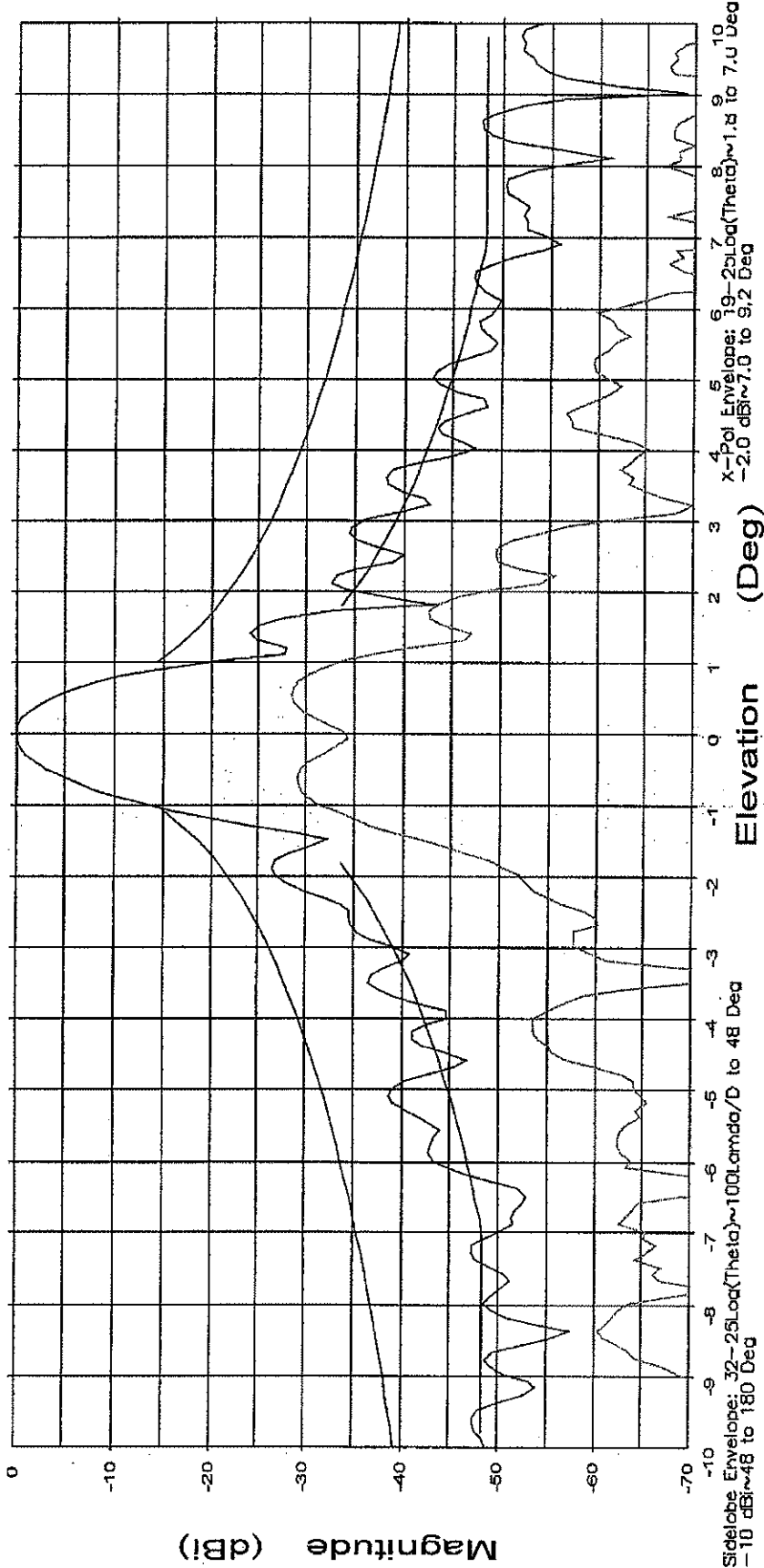
Frequency : 6.138 GHz

3.8M C-Band Series 1385
Linear Polarized Rx/Tx Antenna System

File: See Legend

Operator: Keny Poovey
Ser. no.: 06870
Channel: ch1

Tx pol: Horiz. Rx pol: Horiz.



Overlays	Cal. file	table	channel	units
1748 24.dat-ant_under_test	1748 24.dat	SGA-70	ch1	dBi
1748 29.dat-ant_under_test	1748 29.dat	SGA-70	ch1	dBi

General Dynamics SATCOM Technologies
East Maiden Test Facility
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Maiden, North Carolina 28650

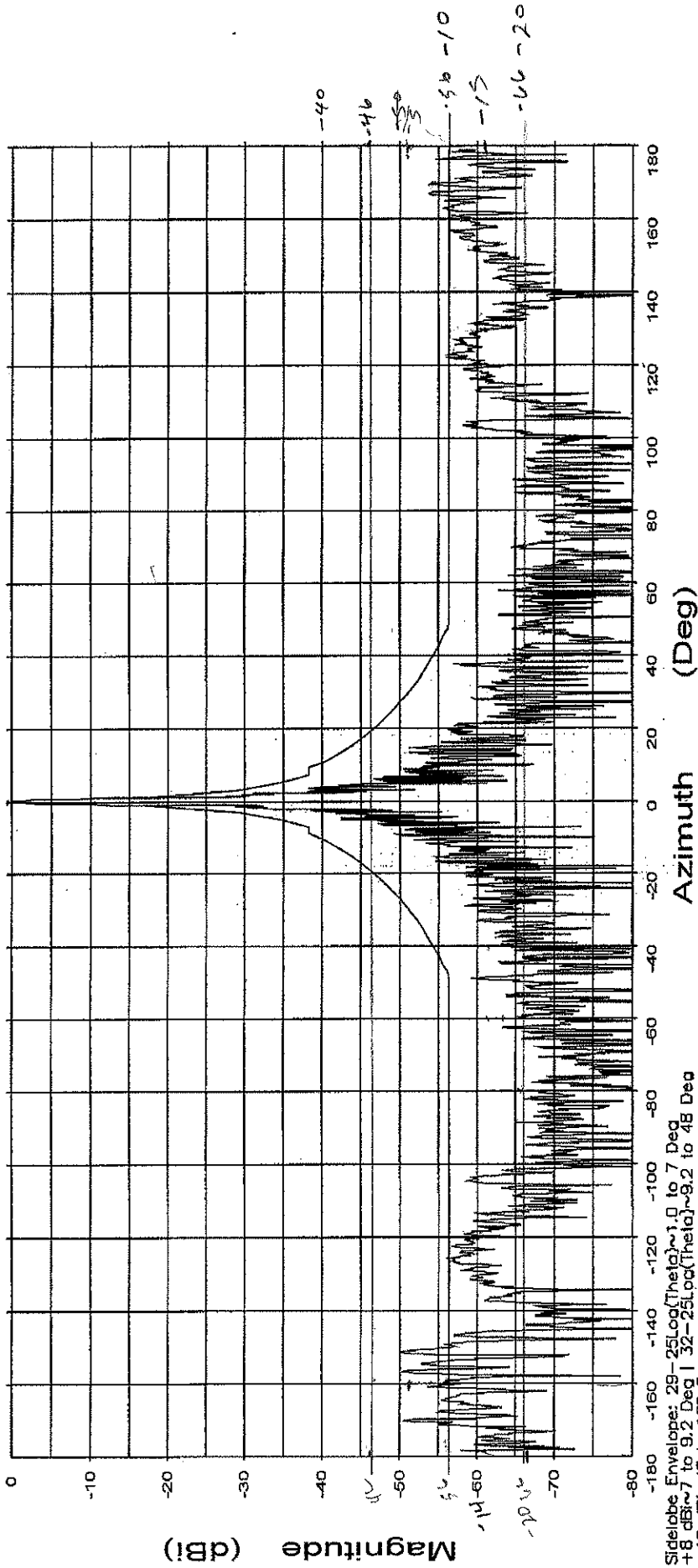
Frequency : 6.138 GHz

3.8M C-Band Series 1385
Linear Polarized Rx/Tx Antenna System

File: See Legend

Operator: Keny Poovey
Ser. no.: 06870
Channel: ch1

Tx pol: Vert. Rx pol: Vert.



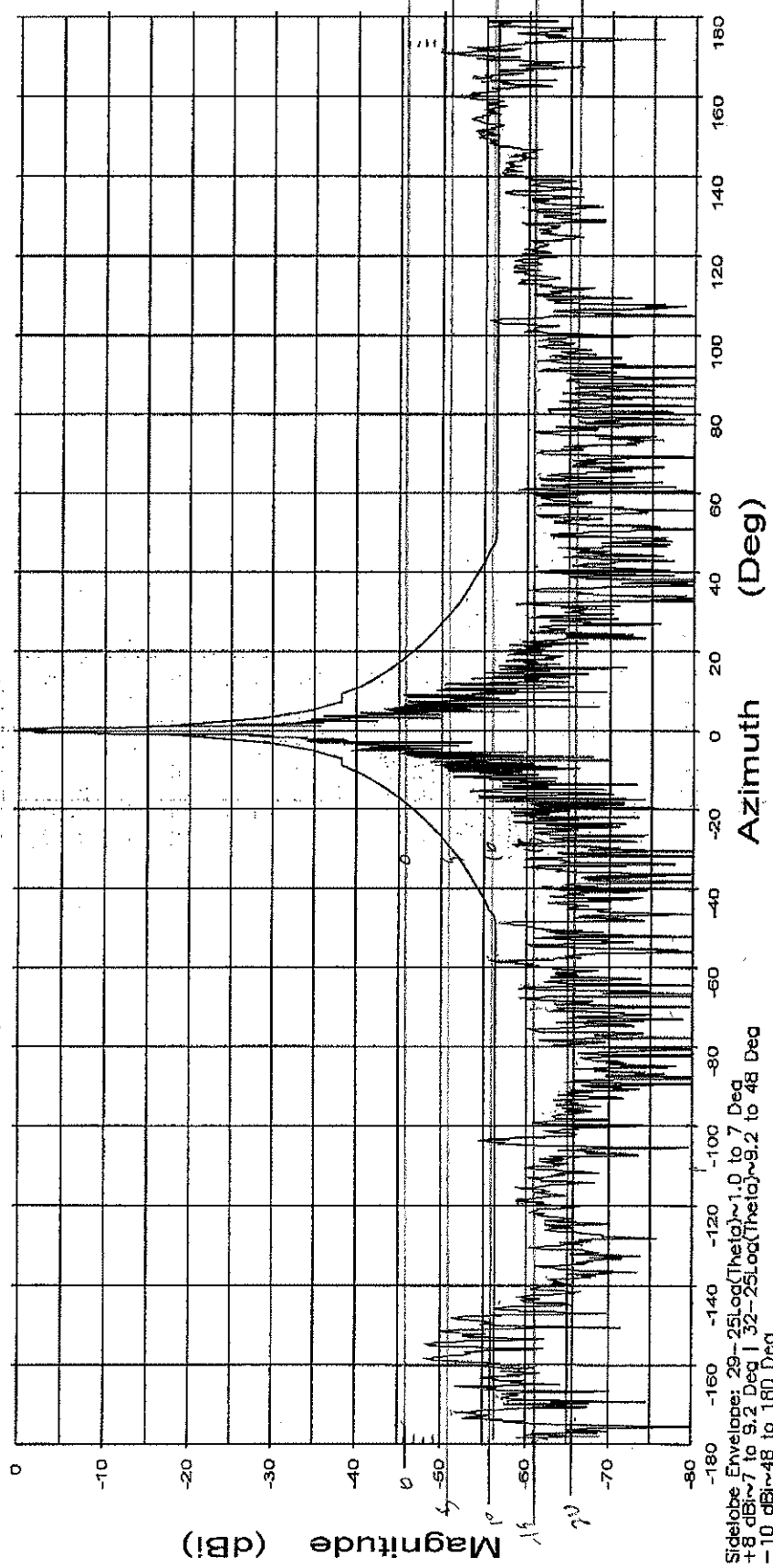
General Dynamics SATCOM Technologies
East Maiden Test Facility
4488 Lawing Chapel Church Road
Maiden, North Carolina 28650

Frequency : 6.138 GHz

3.8M C-Band Series 1385
Linear Polarized Rx/Tx Antenna System

Operator: Keny Poovey
Ser. no.: 06870
Channel: ch1

Tx pol: Horiz. Rx pol: Horiz.



Sidelobe Envelope: 29-25Log(Theta)~1.0 to 7 Deg
+8 dBi~7 to 9.2 Deg | 32-25Log(Theta)~9.2 to 48 Deg
-10 dBi~48 to 180 Deg

Overlays
1748 19.dat-ant_under_test
Cal. file 1748 19.dat
table SGA-70
channel ch1
units dBi

General Dynamics SATCOM Technologies
East Maiden Test Facility
4488 Lawing Chapel Church Road
Maiden, North Carolina 28650

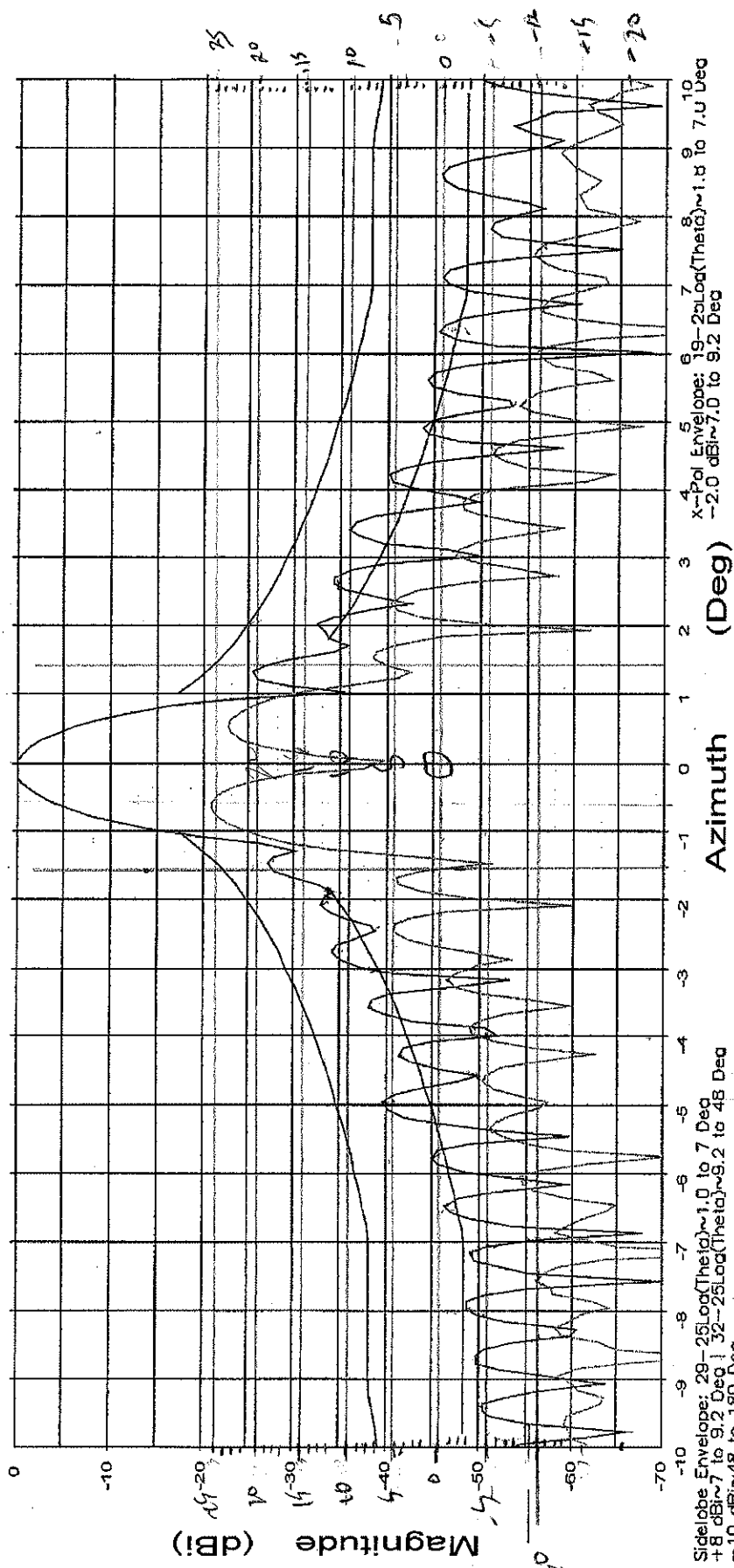
File: See Legend

3.8M C-Band Series 1385
Linear Polarized Rx/Tx Antenna System

Frequency : 6.138 GHz

Operator: Keny Poovey
Ser. no.: 06870
Channel: ch1

Tx pot: Horiz. Rx pot: Horiz.



Sidelobe Envelope: 29-25Log(Theta)~1.0 to 7 Deg
 +8 dBi~7 to 9.2 Deg | 32-25Log(Theta)~9.2 to 48 Deg
 -10 dBi~48 to 180 Deg

x-Pol Envelope: 19-20Log(Theta)~1.0 to 7.0 Deg
 -2.0 dBi~7.0 to 9.2 Deg

Overlays
 1748 19.dat-ant_under_test
 1748 23.dat-ant_under_test

Cal. file
 1748 19.dat
 1748 23.dat

table
 SGA-70
 SGA-70

channel
 ch1
 ch1

units
 dBi
 dBi

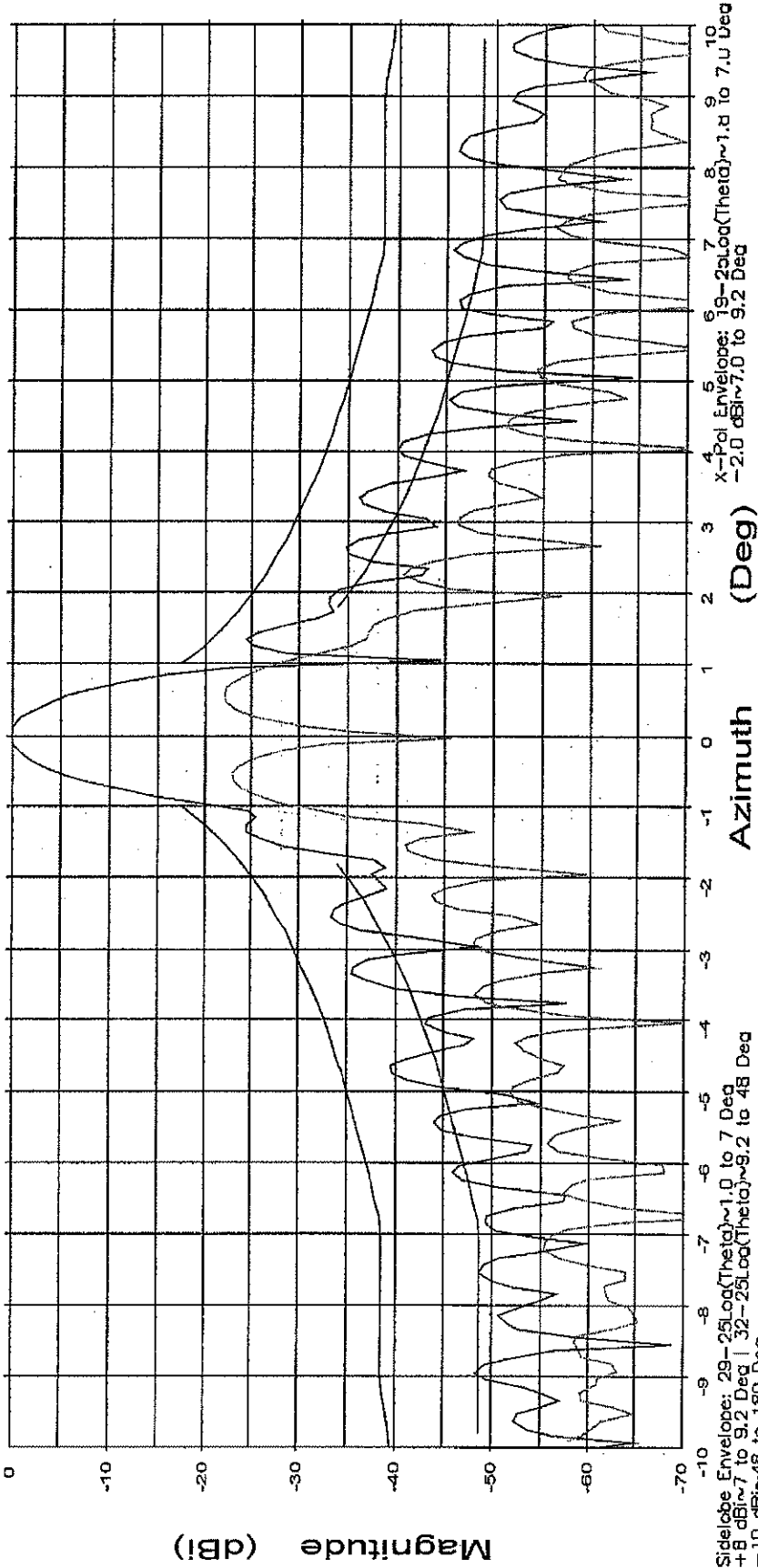
General Dynamics SATCOM Technologies
 East Maiden Test Facility
 4488 Lawing Chapel Church Road
 Maiden, North Carolina 28650

Frequency : 6.425 GHz

3.8M C-Band Series 1385
Linear Polarized Rx/Tx Antenna System

Operator: Keny Poovey
Ser. no.: 06870
Channel: ch1

Tx pol: Horiz. Rx pol: Horiz.



Overlays
1748 19.dat-ant_under_test
1748 23.dat-ant_under_test

table	channel	units
SGA-70	ch1	dBi
SGA-70	ch1	dBi

Cal. file
1748 19.dat
1748 23.dat

General Dynamics SATCOM Technologies
East Maiden Test Facility
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Maiden, North Carolina 28650

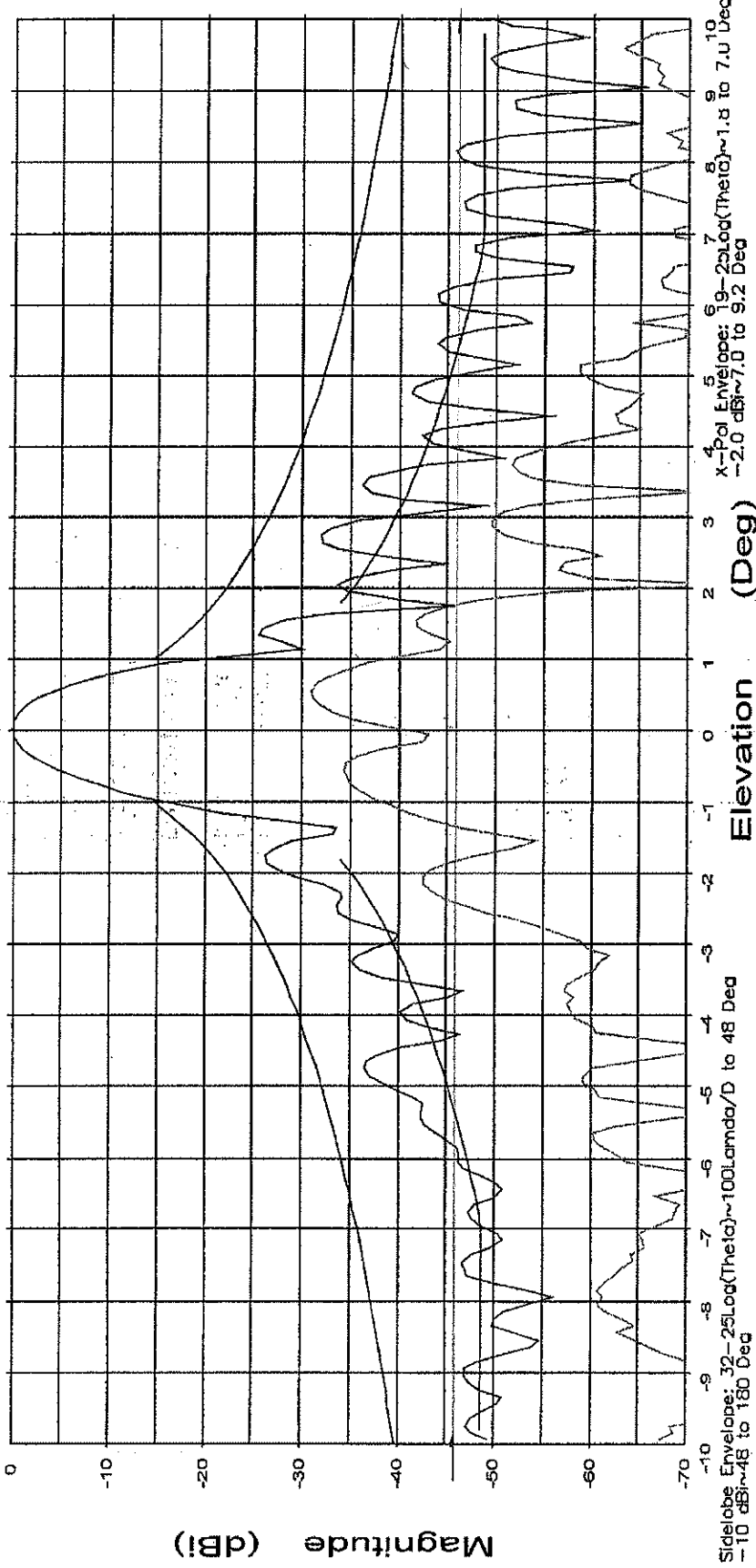
File: See Legend

3.8M C-Band Series 1385
Linear Polarized Rx/Tx Antenna System

Frequency : 6.425 GHz

Operator: Keny Poovey
Ser. no.: 06870
Channel: ch1

Tx pol: Horiz. Rx pol: Horiz.



Overlays
1748 24.dat:ant_under_test
1748 29.dat:ant_under_test

Cal. file	table	channel	units
1748 24.dat	SGA-70	ch1	dBi
1748 29.dat	SGA-70	ch1	dBi

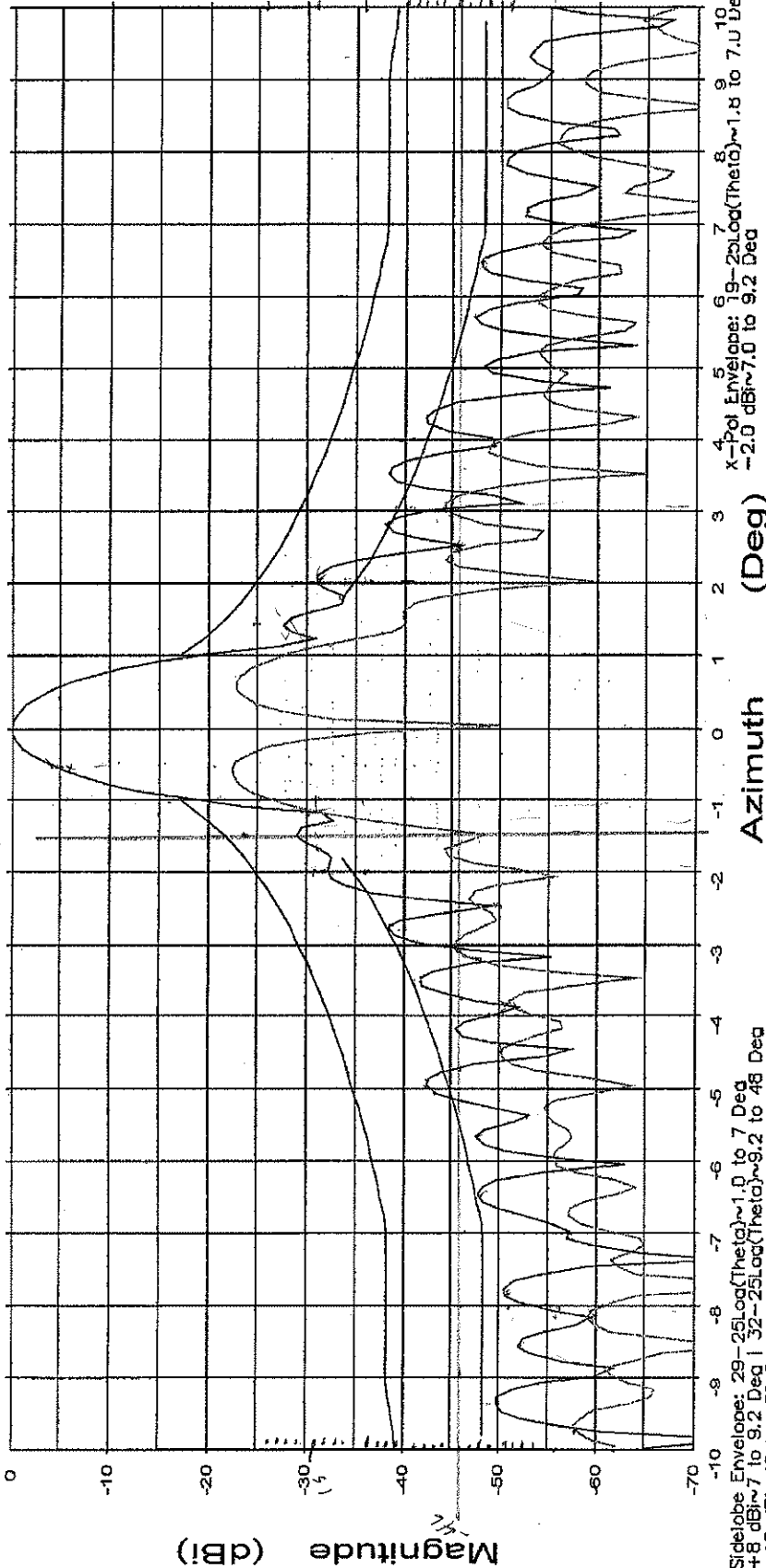
General Dynamics SATCOM Technologies
East Maiden Test Facility
4488 Lawing Chapel Church Road
Maiden, North Carolina 28650

Frequency : 6.138 GHz

3.8M C-Band Series 1385
Linear Polarized Rx/Tx Antenna System

Operator: Keny Roovey
Ser. no.: 06870
Channel: ch1

Tx pol: Vert. Rx pol: Vert.



Side-lobe Envelope: 29-25Log(Theta)~1.0 to 7 Deg
 +8 dBi~7 to 9.2 Deg | 32-25Log(Theta)~9.2 to 48 Deg
 -10 dBi~48 to 180 Deg

x 1/2 of Envelope: 19-25Log(Theta)~1.8 to 7.0 Deg
 -2.0 dBi~7.0 to 9.2 Deg

Overlays
 1748 03.dat-ant_under_test
 1748 07.dat-ant_under_test

table	Cal. file	channel	units
SGA-70	1748 03.dat	ch1	dBi
SGA-70	1748 07.dat	ch1	dBi

General Dynamics SATCOM Technologies
 East-Maiden Test Facility
 4488 Lawing Chapel Church Road
 Maiden, North Carolina 28650