

# PRODELIN<sup>®</sup>

**A TriPoint Global Company**

East Maiden Antenna Test Range  
4488 Lawing Chapel Church Rd.  
Maiden, North Carolina 28650

## **Antenna Range Test Report**

**Test No. 1125**

1.8 meter  
Ka-Band  
Antenna System

January 14 2003

This Package Contains Original Patterns

## Table of Contents

<u>Section</u>	<u>Title</u>
I	Frequencies Tested
II	Gain Analysis
III	X-Pol Analysis
IV	Radiation Patterns LHCP Transmit
V	Radiation Patterns RHCP Transmit
VI	Radiation Patterns LHCP Thru-Port Receive
VII	Radiation Patterns RHCP Thru-Port Receive
VIII	Radiation Patterns LHCP Side-Port Receive
IX	Radiation Patterns RHCP Side-Port Receive

# Section I

# Frequencies Tested

**19.70 GHz**

**19.95 GHz**

**20.20 GHz**

**29.50 GHz**

**29.75 GHz**

**30.00 GHz**

# Section II

**Gain Analysis**  
 1.8M .8 f/d Ka-Band Antenna System  
 Test No. 1125

Frequency	Polarization LHCP	Gain	Efficiency
29.50	LHCP	53.42	71.08%
29.75	LHCP	53.43	70.05%
30.00	LHCP	53.48	69.68%

Frequency	Polarization RHCP	Gain	Efficiency
29.50	RHCP	53.22	67.88%
29.75	RHCP	53.41	67.73%
30.00	RHCP	53.40	68.41%

Frequency	Polarization LHCP THUR- PORT	Gain	Efficiency
19.70	LHCP	49.74	68.30%
19.95	LHCP	49.92	69.42%
20.20	LHCP	50.13	71.07%

Frequency	Polarization LHCP SIDE- PORT	Gain	Efficiency
19.70	LHCP	49.88	70.54%
19.95	LHCP	49.80	67.53%
20.20	LHCP	50.04	69.61%

Frequency	Polarization RHCP THUR- PORT	Gain	Efficiency
19.70	RHCP	49.73	68.15%
19.95	RHCP	49.85	68.31%
20.20	RHCP	50.05	69.77%

Frequency	Polarization RHCP SIDE- PORT	Gain	Efficiency
19.70	RHCP	49.76	68.62%
19.95	RHCP	49.93	69.58%
20.20	RHCP	50.10	70.58%

# Section III

# X-Pol Analysis

## 1.8M .8f/d Ka-Band Antenna System

### Test No. 1125

Frequency	Polarization LHCP	On Axis X-Pol Azimuth Plane	On Axis X-Pol Elevation Plane
29.50	LHCP	27.92	26.58
29.75	LHCP	28.69	28.56
30.00	LHCP	33.58	34.02

Frequency	Polarization RHCP	On Axis X-Pol Azimuth Plane	On Axis X-Pol Elevation Plane
29.50	RHCP	25.19	25.51
29.75	RHCP	27.61	27.36
30.00	RHCP	33.45	33.52

Frequency	Polarization LHCP THUR-PORT	On Axis X-Pol Azimuth Plane	On Axis X-Pol Elevation Plane
19.70	LHCP	29.75	30.06
19.95	LHCP	29.08	29.06
20.20	LHCP	26.21	26.52

Frequency	Polarization LHCP SIDE-PORT	On Axis X-Pol Azimuth Plane	On Axis X-Pol Elevation Plane
19.70	LHCP	25.60	25.41
19.95	LHCP	28.72	28.51
20.20	LHCP	36.30	36.02

Frequency	Polarization RHCP THRU-PORT	On Axis X-Pol Azimuth Plane	On Axis X-Pol Elevation Plane
19.70	RHCP	25.52	26.01
19.95	RHCP	29.19	29.50
20.20	RHCP	37.03	37.98

Frequency	Polarization RHCP SIDE-PORT	On Axis X-Pol Azimuth Plane	On Axis X-Pol Elevation Plane
19.70	RHCP	28.97	29.95
19.95	RHCP	26.84	27.73
20.20	RHCP	25.35	26.13



# Section IV

File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

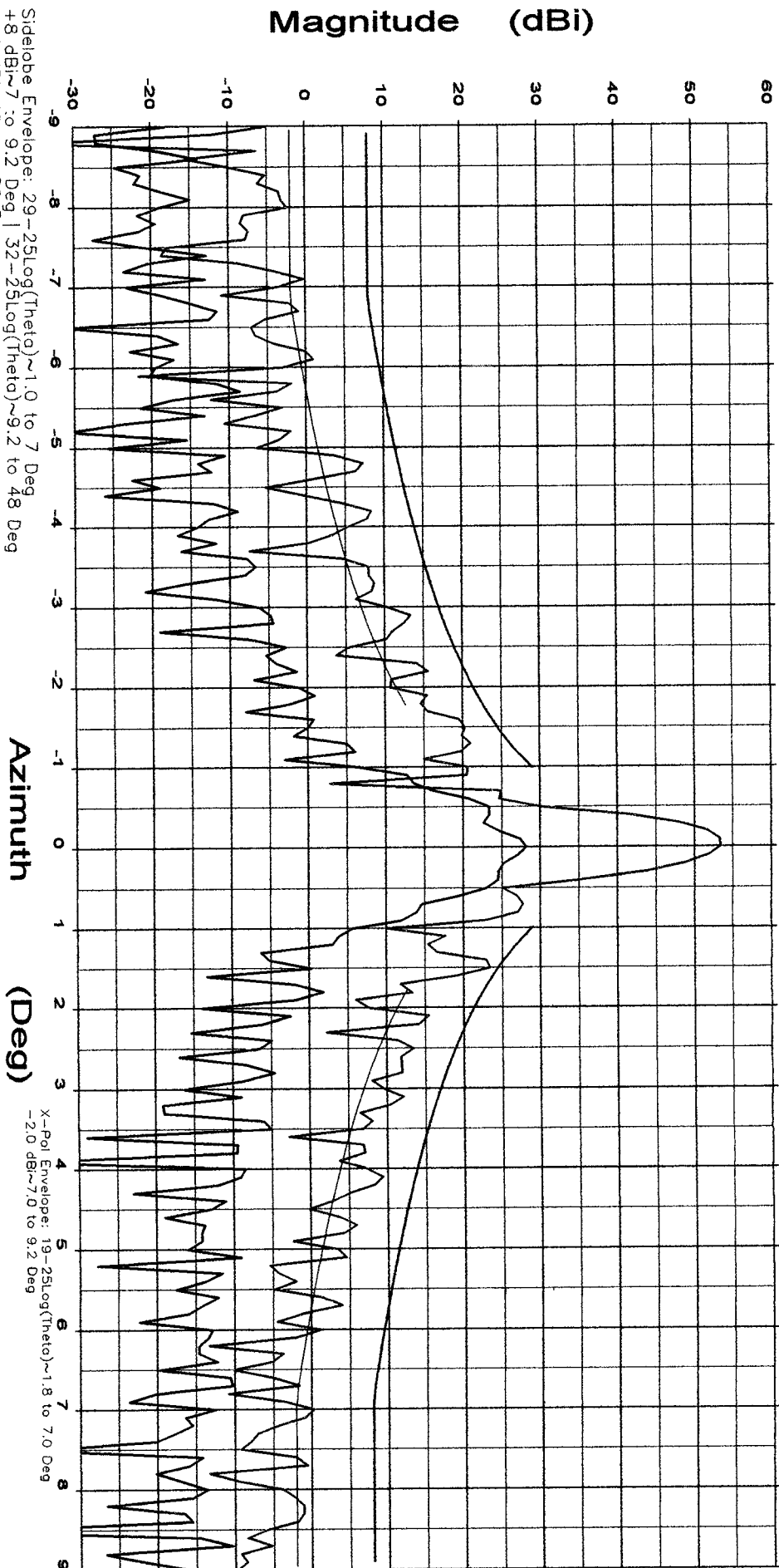
Frequency : 29.500 GHz

Operator: K. Poovey

Ser. no.: 010903

Tx pol: LHCP

Rx pol: LHCP



Overlays

112523.dat-ant_under_test	—	Cal. file	112523.dat	units	dB
112526.dat-ant_under_test	---	112526.dat		dB	

Azimuth Beam Peak

Deg	dB
0.00	53.42
0.00	28.18

File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 29.750 GHz

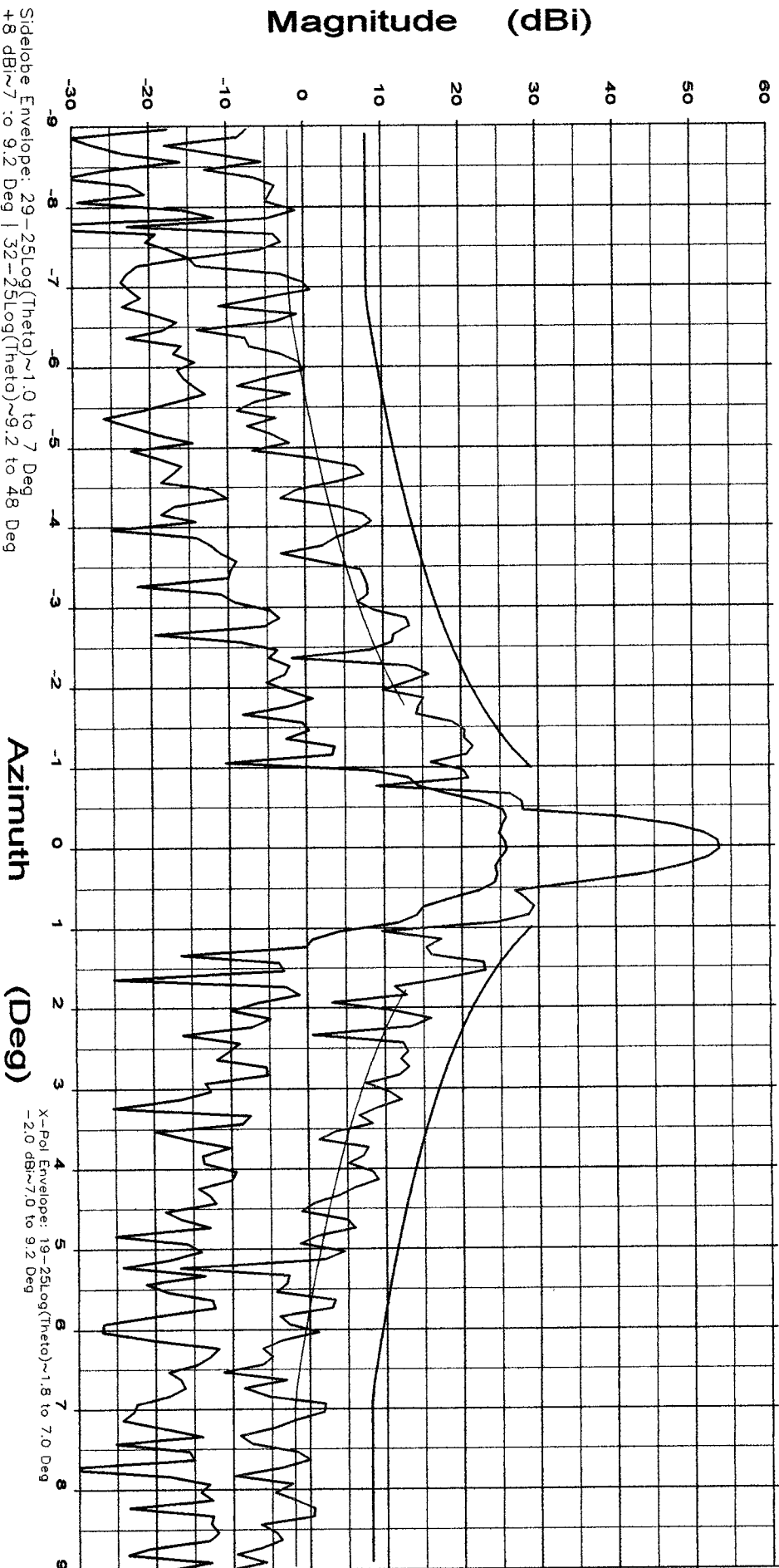
Operator: K. Poovey

Ser. no.: 010903

Channel: ch1

Tx pol: LHCP

Rx pol: LHCP



Sidelobe Envelope: 29-25Log(Theta)~1.0 to 7 Deg  
 +8 dBi~7.0 to 9.2 Deg | 32-25Log(Theta)~9.2 to 48 Deg  
 -10 dBi~48 to 180 Deg

Overlays  
 112523.dat-ant\_under\_test ———  
 112523.dat - - - - -  
 112526.dat-ant\_under\_test . . . . .

Cal. file units  
 112523.dat dBi  
 112526.dat dBi

Beam Peak dB  
 Deg 0.04 53.43  
 0.04 25.83

Azimuth (Deg)

X-Pol Envelope: 19-25Log(Theta)~1.8 to 7.0 Deg  
 -2.0 dBi~7.0 to 9.2 Deg

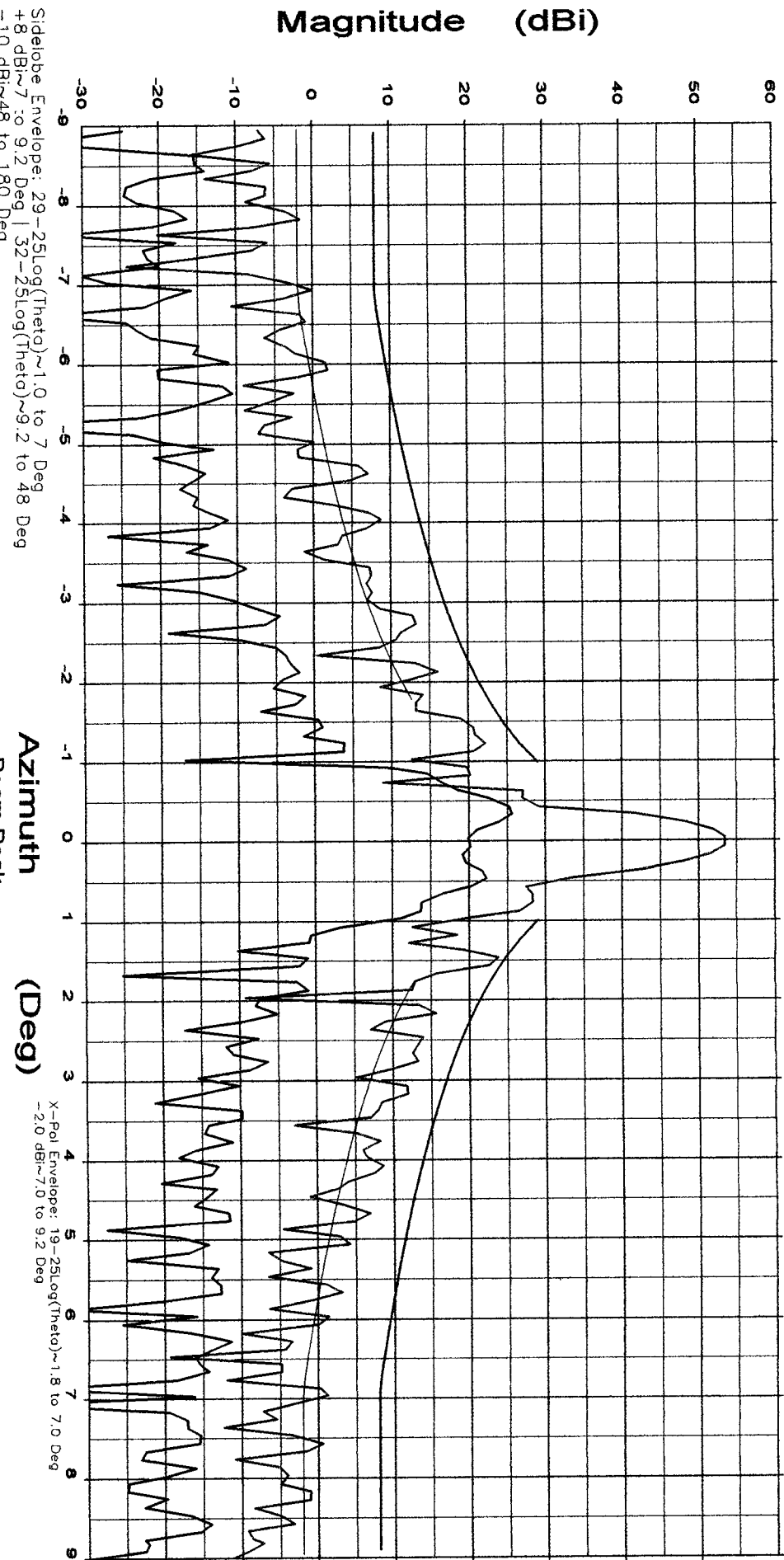
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PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 30.000 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



Sidelobe Envelope: 29-25Log(Theta)~1.0 to 7 Deg  
 +8 dBi~7.0 to 9.2 Deg | 32-25Log(Theta)~9.2 to 48 Deg  
 -10 dBi~48 to 180 Deg

Overlays  
 112523.dat-ant\_under\_test ———  
 112526.dat-ant\_under\_test ———

Cal. file  
 112523.dat  
 112526.dat

units  
 dBi  
 dBi

Azimuth (Deg)

Beam Peak  
 Deg dB  
 -0.04 53.48  
 -0.34 25.60

X-Pol Envelope: 19-25Log(Theta)~1.8 to 7.0 Deg  
 -2.0 dBi~7.0 to 9.2 Deg

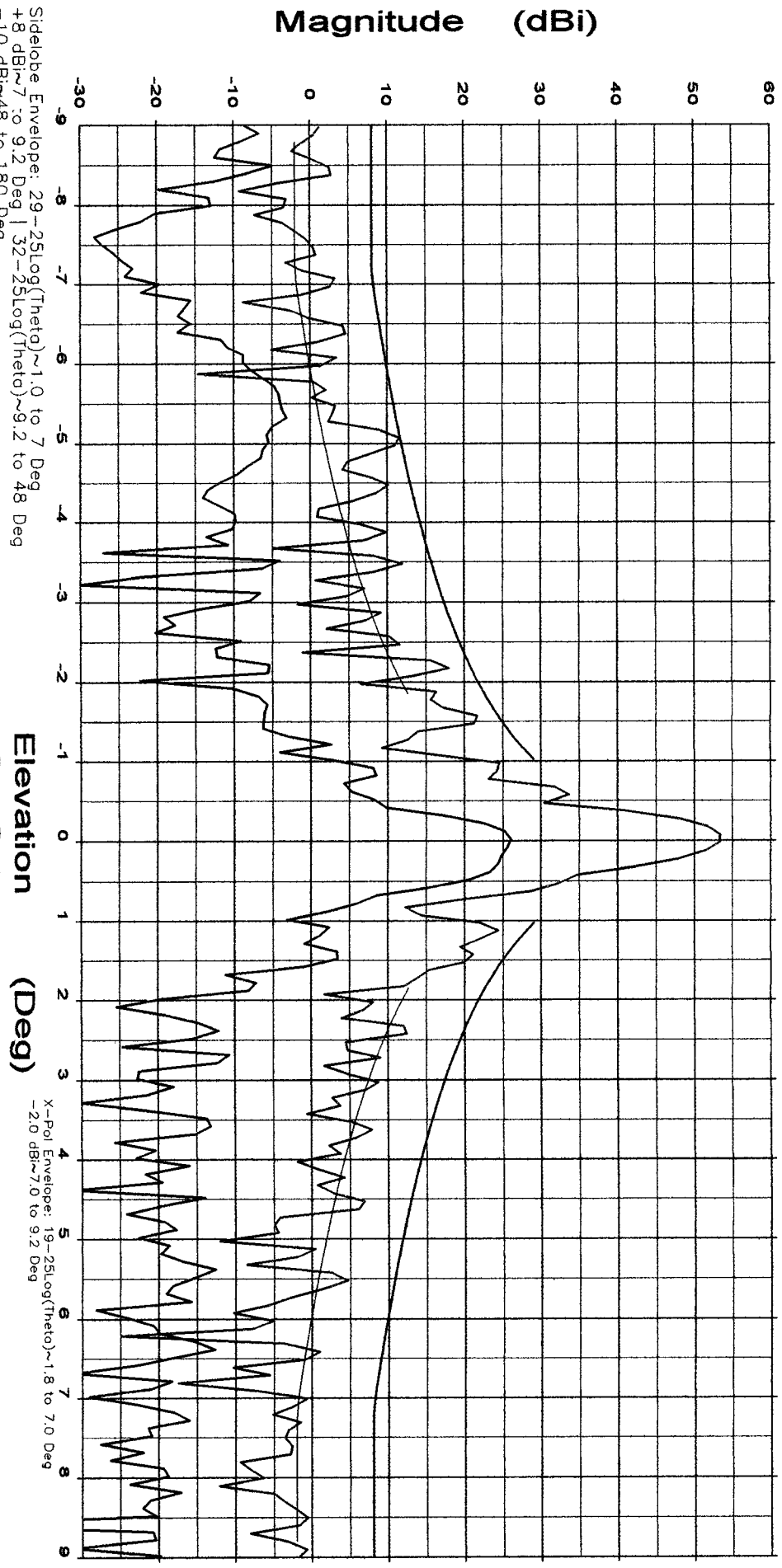
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PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 29.750 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



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

Overlays  
 112524.dat-ant\_under\_test ——— Cal file 112524.dat  
 112527.dat-ant\_under\_test ——— Cal file 112527.dat

units	Beam Peak	dB
dBi	Deg	53.31
dBi	Deg	25.47

Elevation (Deg)

X-Pol Envelope: 19-25Log(Theta)~1.8 to 7.0 Deg  
 -2.0 dBi~7.0 to 9.2 Deg

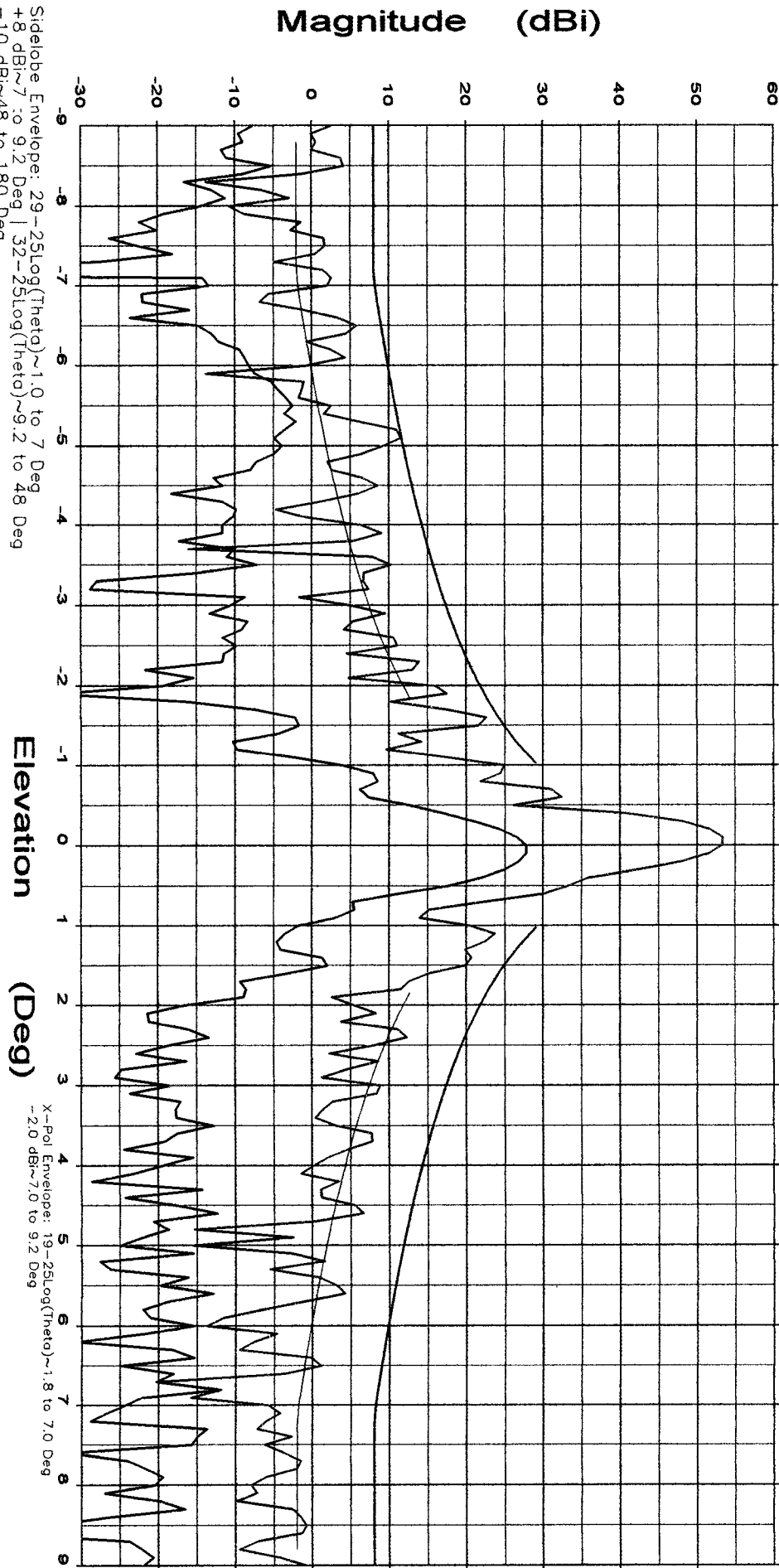
File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 29.500 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



Sidelobe Envelope: 29-25Log(Theta)~1.0 to 7 Deg  
 +8 dBi~7.0 to 9.2 Deg | 32-25Log(Theta)~9.2 to 48 Deg  
 -10 dBi~48 to 180 Deg

Overlays  
 112524.dat-ant\_under\_test ——— Cal file 112524.dat  
 112527.dat-ant\_under\_test ——— Cal file 112527.dat

units  
 dBi dB  
 Deg Deg  
 0.05 53.32  
 0.06 27.78

Elevation (Deg)

X-Pol Envelope: 19-25Log(Theta)~1.8 to 7.0 Deg  
-2.0 dBi~7.0 to 9.2 Deg

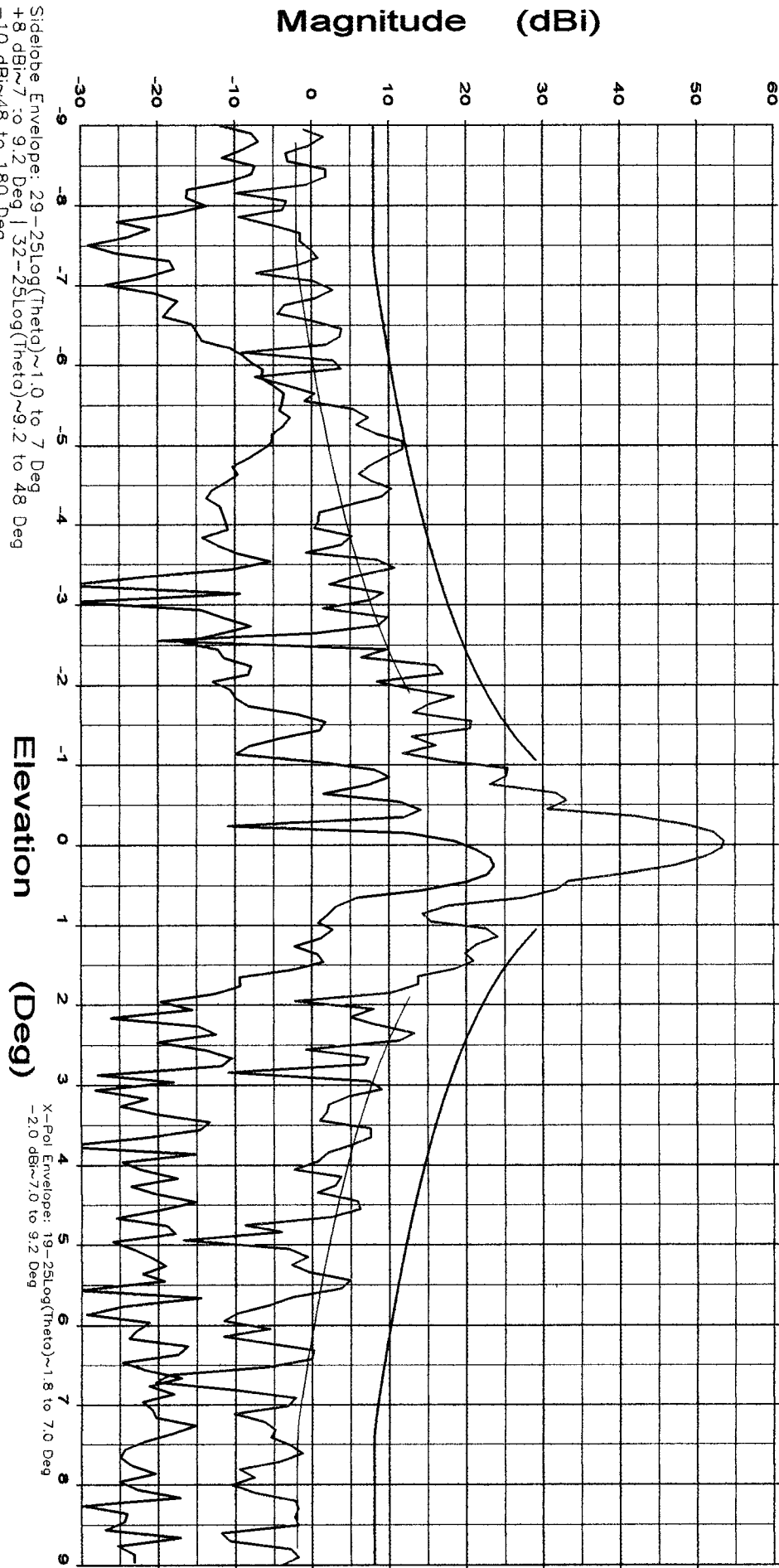
File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 30.000 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



Overlays

112524.dat-ant_under_test	—	Cal. file	112524.dat	units	dB
112527.dat-ant_under_test	—	112527.dat		dB	0.23

Beam Peak

Deg	0.02	53.40
dB	0.23	23.46

File: See Legend

PRODELIN  
1.8 METER 8 f/d  
Ka-Band Antenna System

Frequency : 30.000 GHz

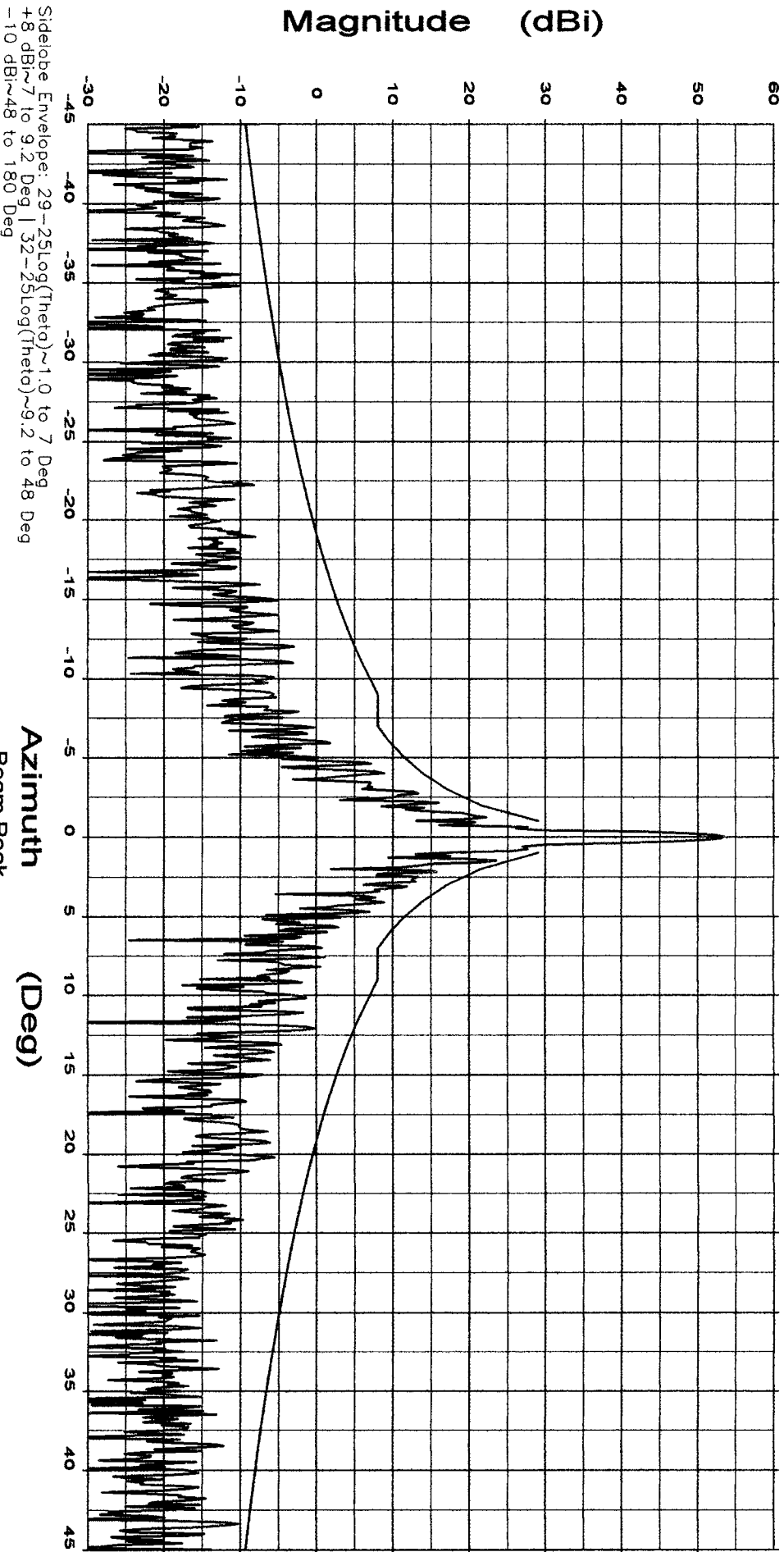
Operator: K. Poovey

Ser. no.: 010903

Channel: ch1

TX pol: LHCP

Rx pol: LHCP



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  
 Cal. file 112522.dat units dBi  
 112522.dat\_under\_test units dBi

Azimuth Beam Peak  
 Deg dB  
 -0.03 53.48



File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 29.750 GHz

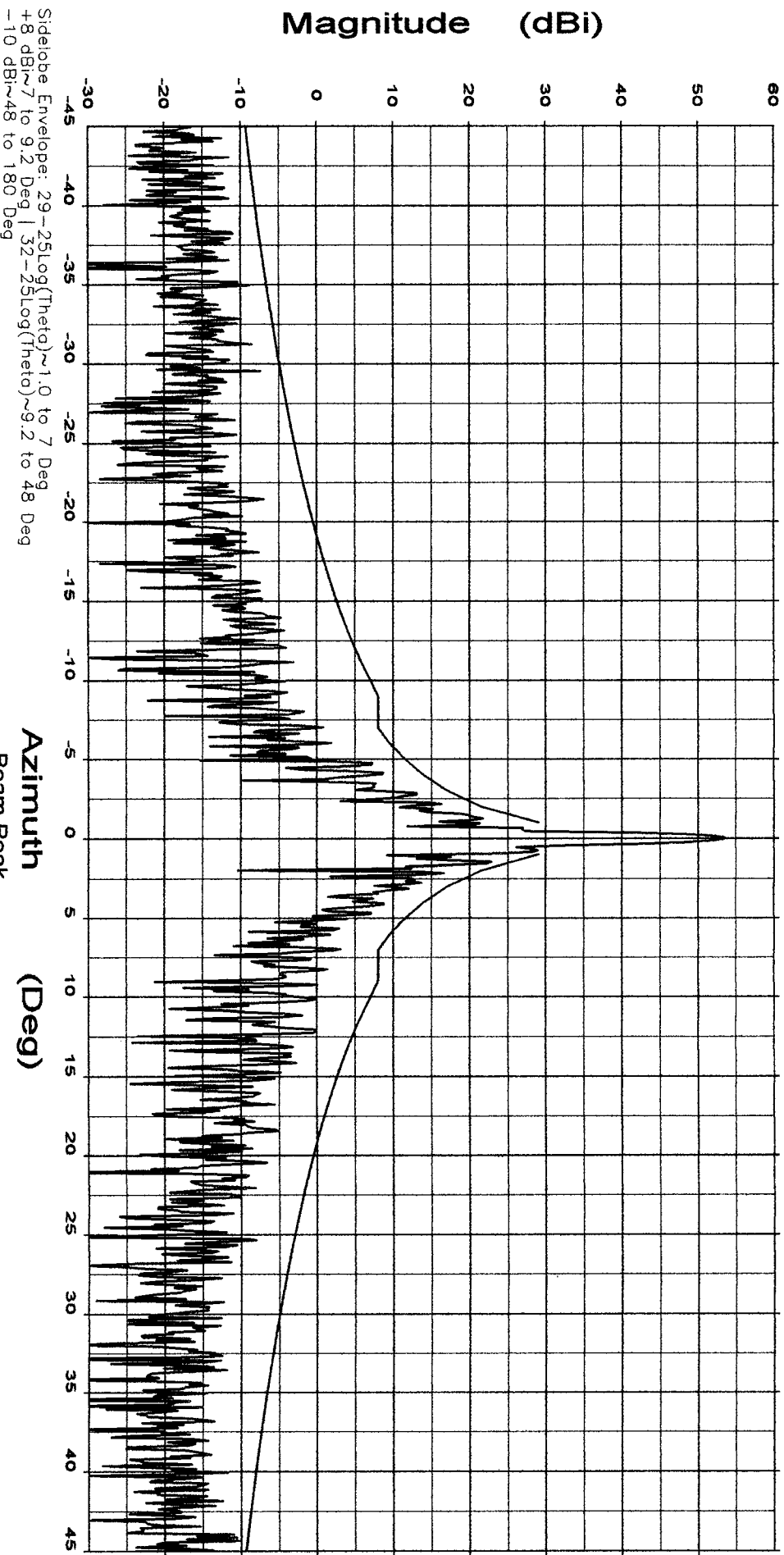
Operator: K. Poovey

Ser. no.: 010903

Channel: ch1

Tx pol: LHCP

Rx pol: LHCP



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

Cal. file 112522.dat  
 units dBi  
 Beam Peak dB 53.43  
 Deg -0.07

Overlays  
 112522.dat-ant\_under\_test

File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 29.500 GHz

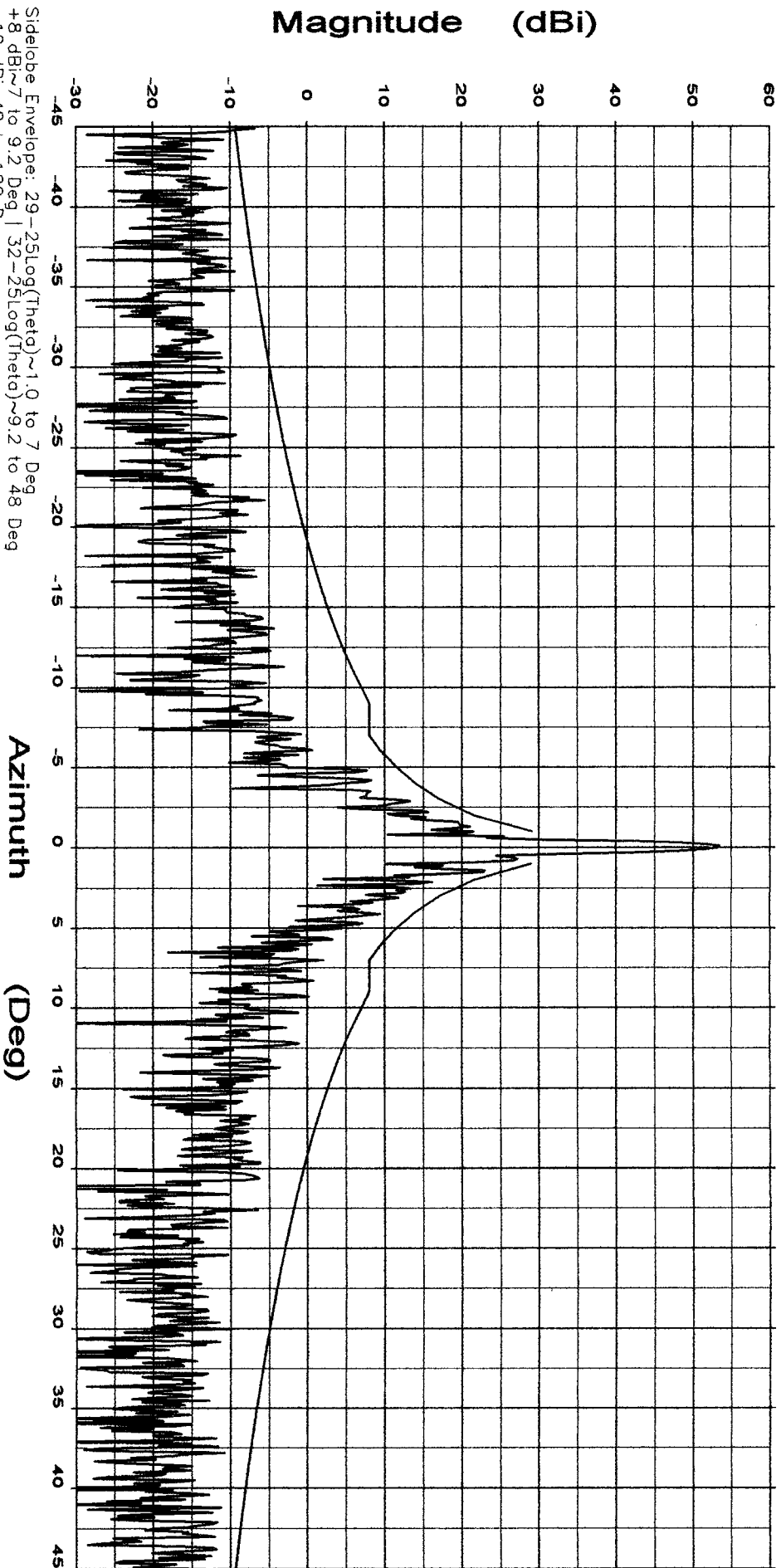
Operator: K. Poovey

Ser. no.: 010903

Channel: ch1

Tx pol: LHCP

Rx pol: LHCP



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  
112522.dat-ant\_under\_test

Cal. file  
112522.dat

units  
dBi

Beam Peak  
Deg dB  
-0.10 53.42

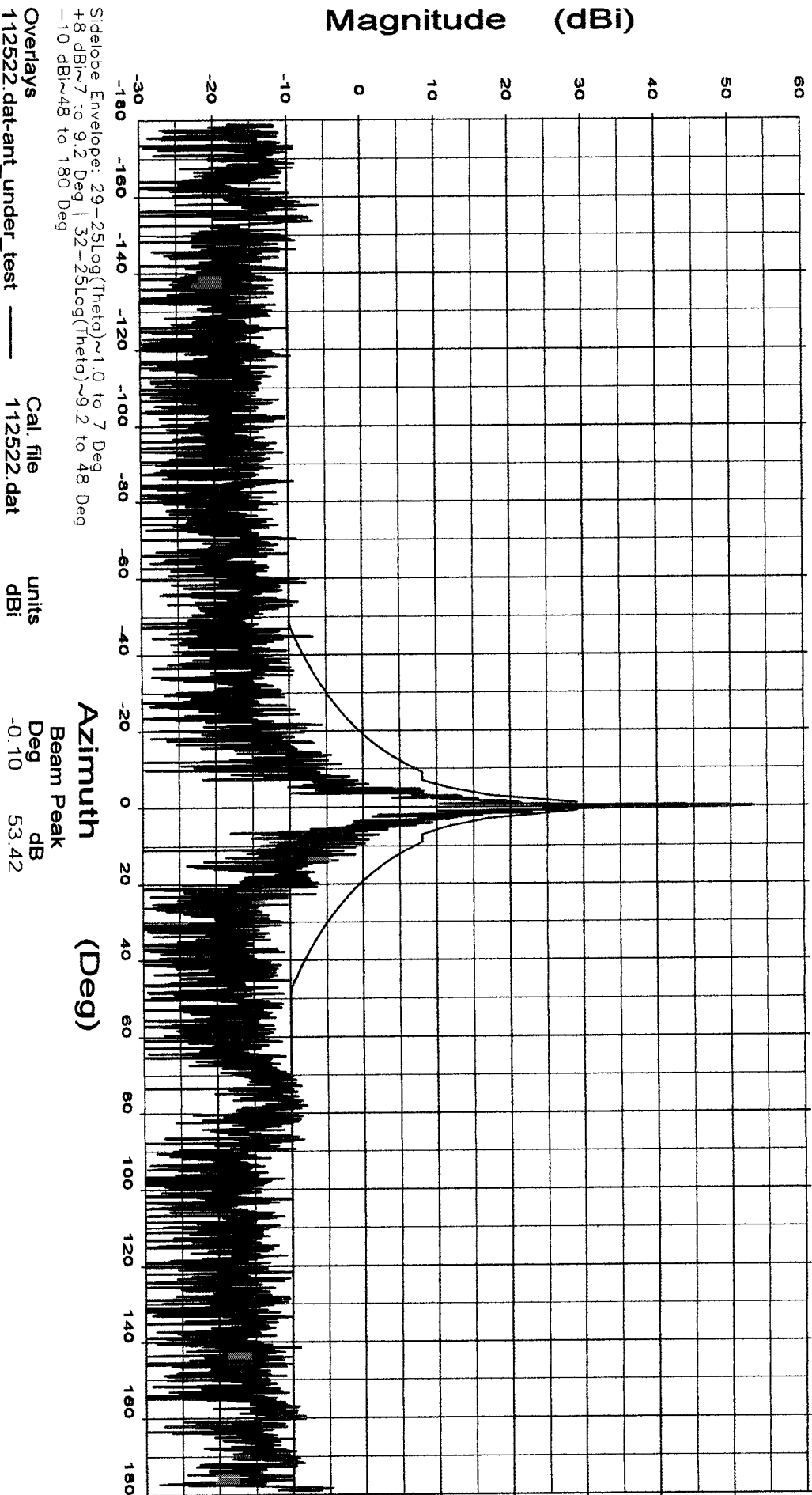
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PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 29.500 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



Sidelobe Envelope: 29-25Log(Theta)~1.0 to 7 Deg  
+8 dBi~7.0 to 9.2 Deg | 32-25Log(Theta)~9.2 to 48 Deg  
-10 dBi~48 to 180 Deg

Overlays  
112522.dat-ant\_under\_test

Cal. file  
112522.dat

units  
dBi

Azimuth (Deg)  
Beam Peak  
Deg dB  
-0.10 53.42

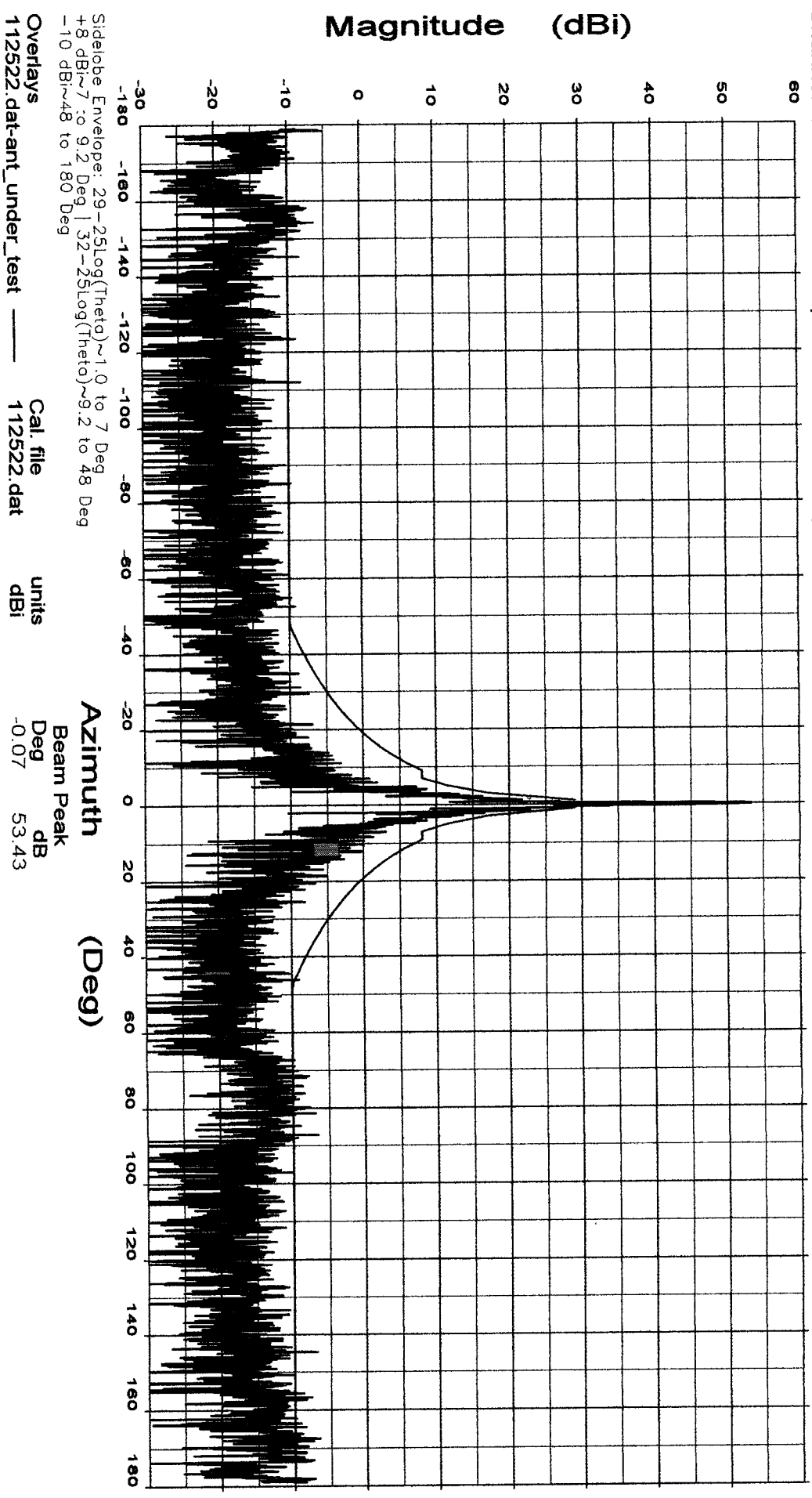
File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 29.750 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



Sidelobe Envelope: 29-25Log(Theta)~1.0 to 7 Deg  
+8 dBi~7.0 9.2 Deg | 32-25Log(Theta)~9.2 to 48 Deg  
-10 dBi~48 to 180 Deg

Overlays  
112522.dat-ant\_under\_test — Cal. file 112522.dat

units dB  
Azimuth Beam Peak  
Deg -0.07 dB 53.43

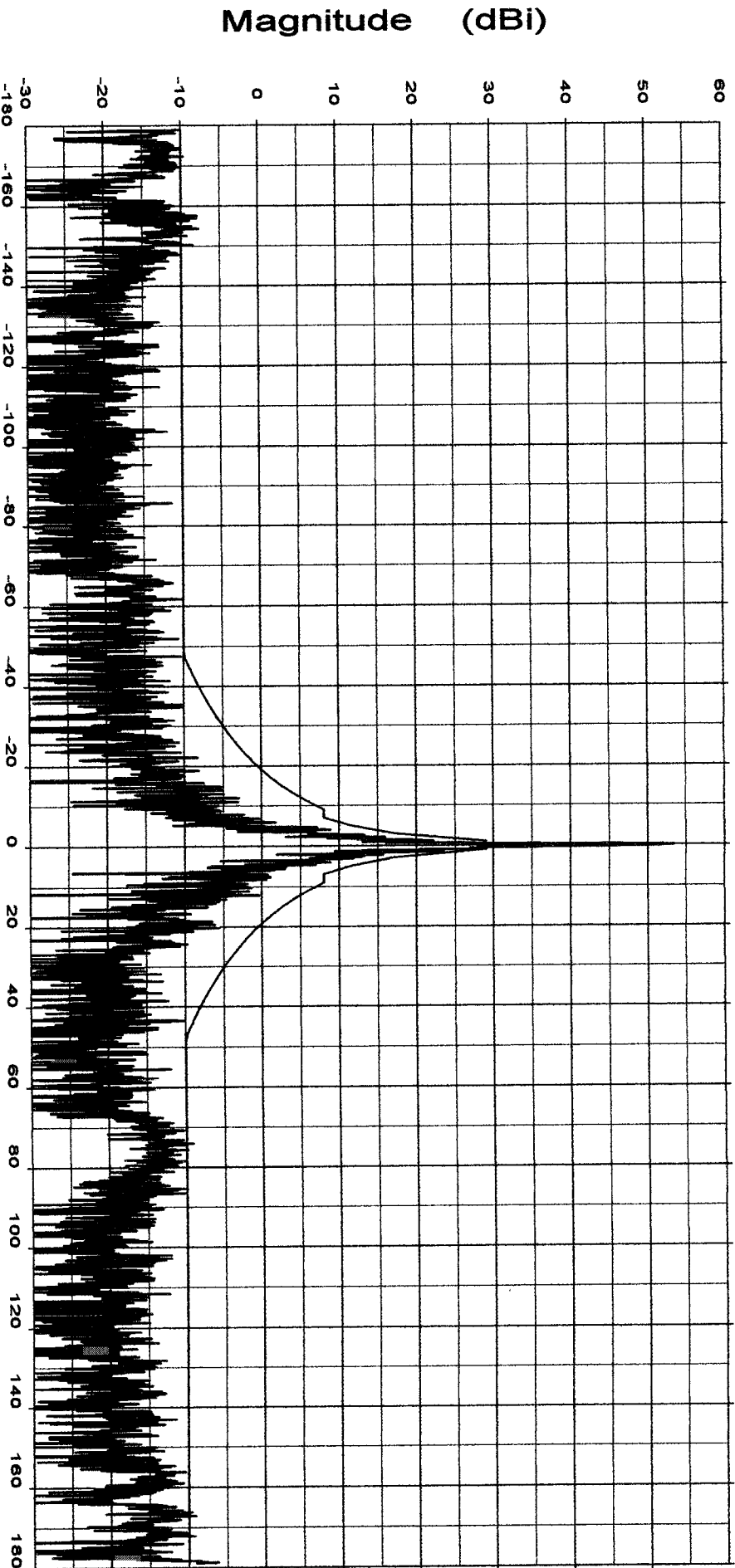
File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 30.000 GHZ

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



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  
112522.dat-ant\_under\_test

Cal. file  
112522.dat

units  
dBi

Azimuth  
Beam Peak  
Deg dB  
-0.03 53.48

# Section V

File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 29.500 GHz

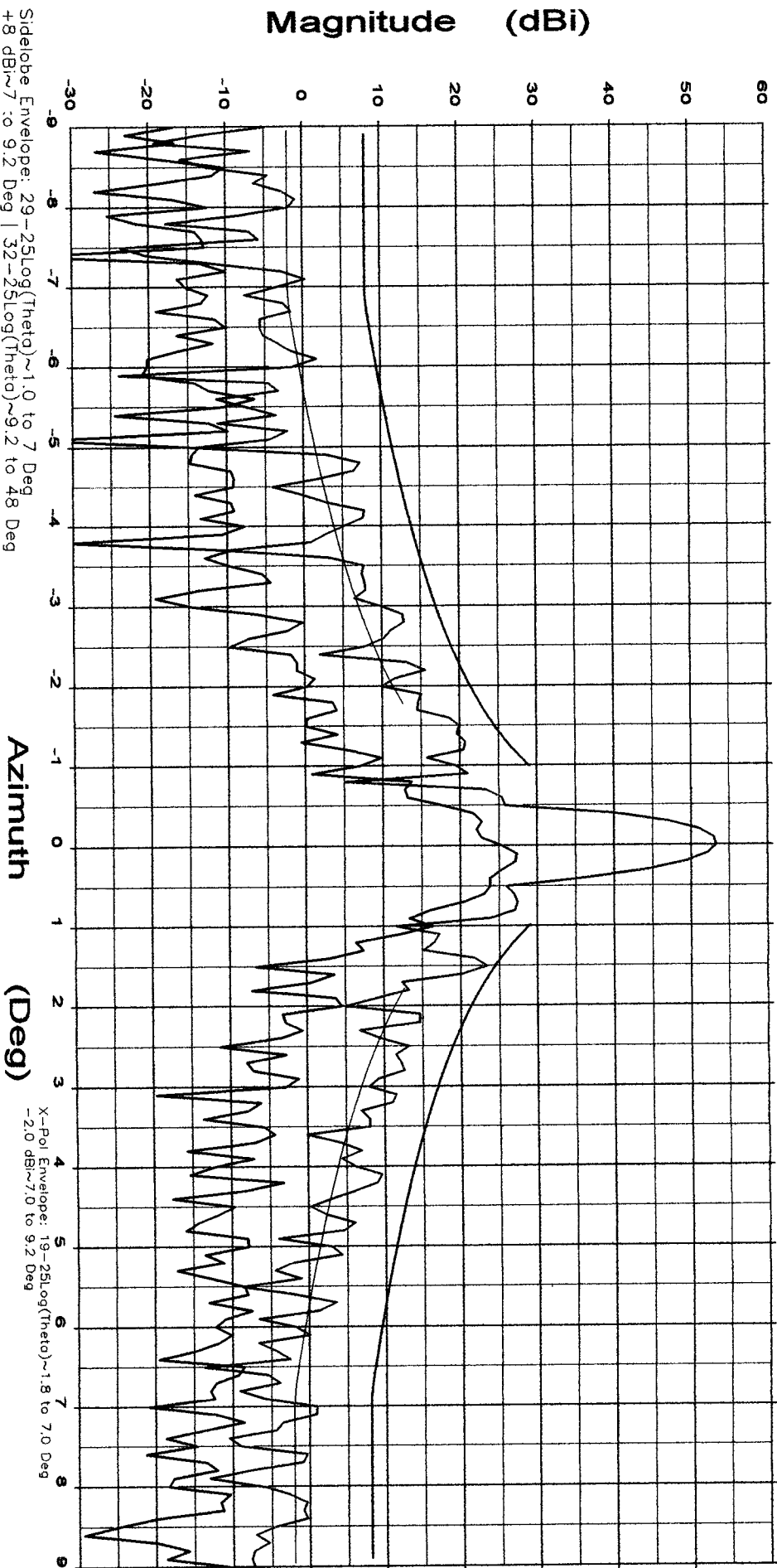
Operator: K. Poovey

Ser. no.: 010903

Channel: ch1

Tx pol: RHCP

Rx pol: RHCP



Sidelobe Envelope: 29-25Log(Theta)~1.0 to 7 Deg  
 +8 dBi~7.0 to 9.2 Deg | 32-25Log(Theta)~9.2 to 48 Deg  
 -10 dBi~48 to 180 Deg

Azimuth (Deg) Beam Peak dB  
 Deg 0.02 53.22  
 0.16 27.22

File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 29.750 GHz

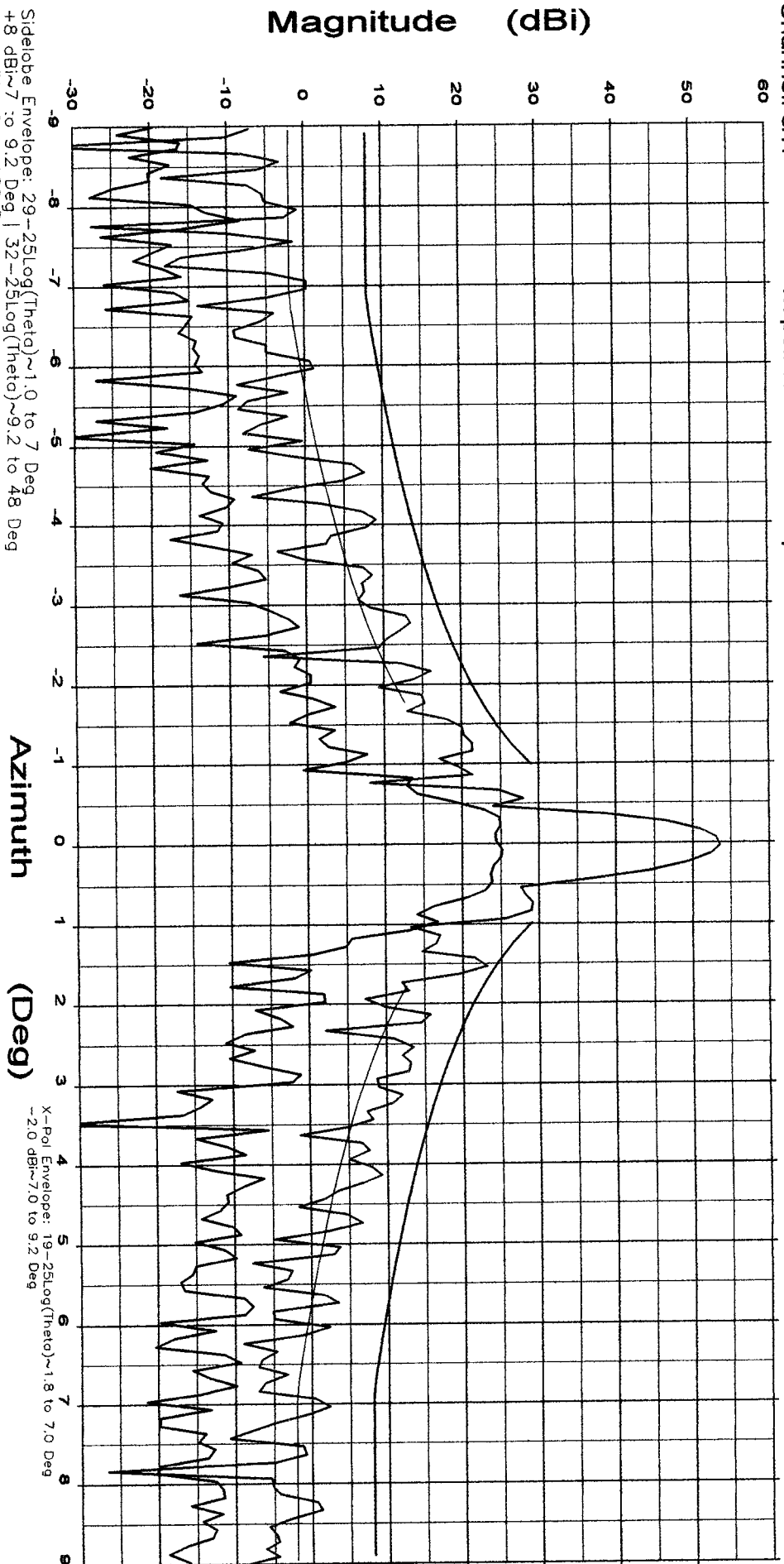
Operator: K. Poovey

Ser. no.: 010903

Channel: ch1

Tx pol: RHCP

Rx pol: RHCP



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

Overlays  
 112517.dat-ant\_under\_test ———  
 112520.dat-ant\_under\_test ———

Cal. file	units	Azimuth Beam Peak	Deg	dB
112517.dat	dBi	0.01	53.41	
112520.dat	dBi	0.08	25.16	



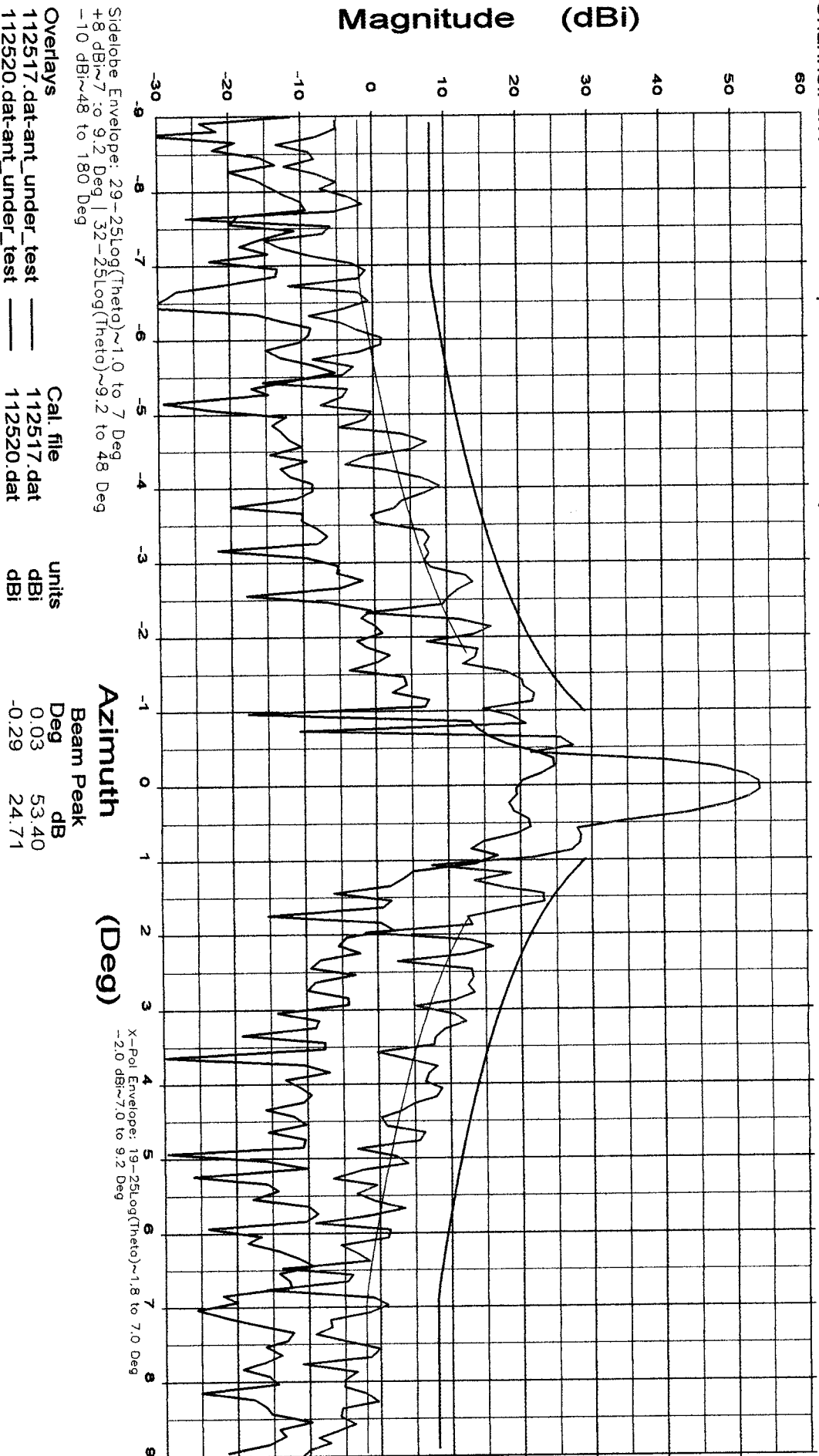
File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 30.000 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

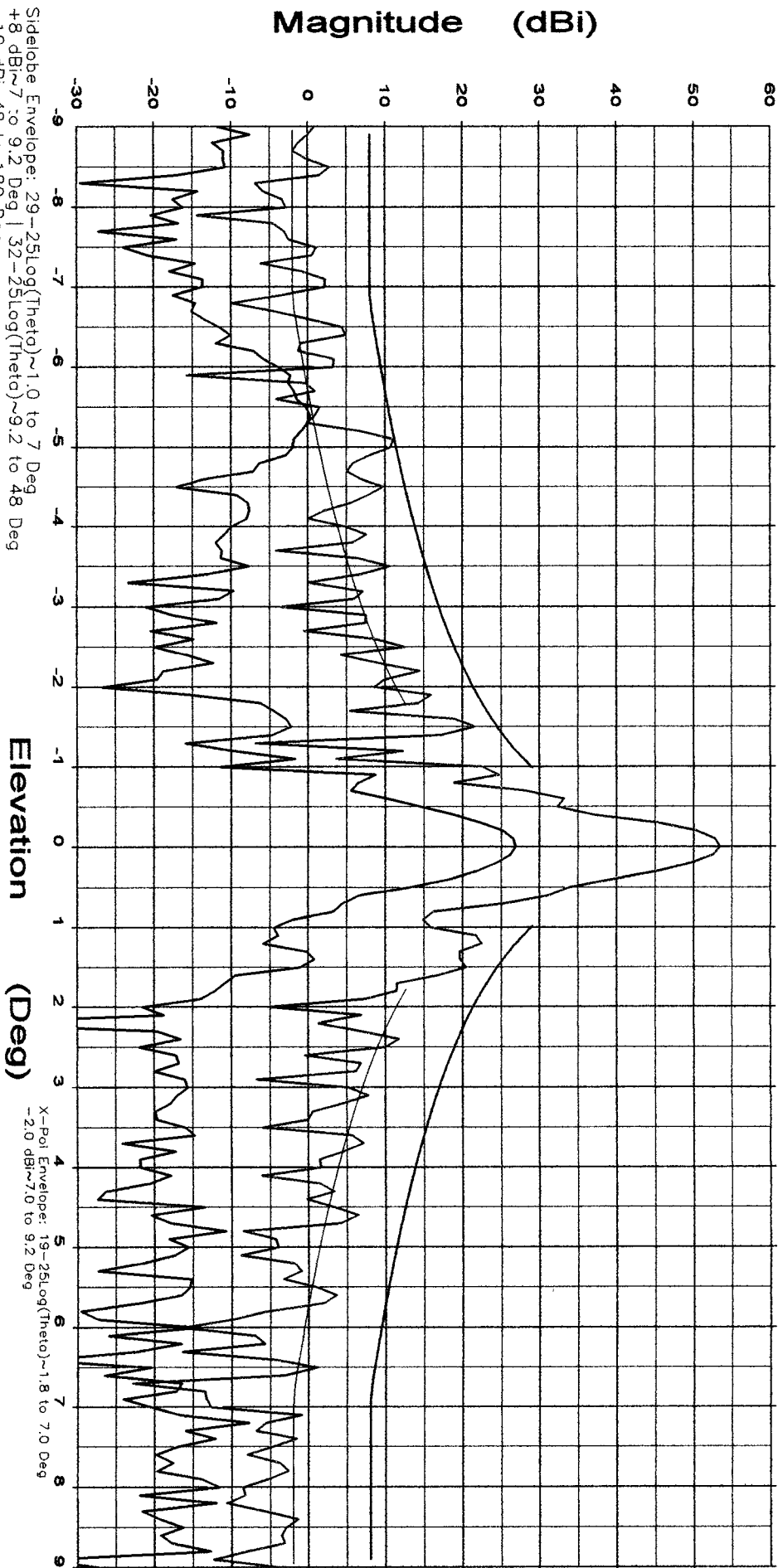
Frequency : 29.500 GHz

Operator: K. Poovey

Ser. no.: 010903

Tx pol: RHCP

Rx pol: RHCP



Overlays  
 112519.dat-ant\_under\_test ———  
 112521.dat-ant\_under\_test ———

Cal. file  
 112519.dat  
 112521.dat

units  
 dBi  
 dB

Beam Peak  
 Deg  
 -0.01  
 -0.01

dB  
 53.37  
 26.82

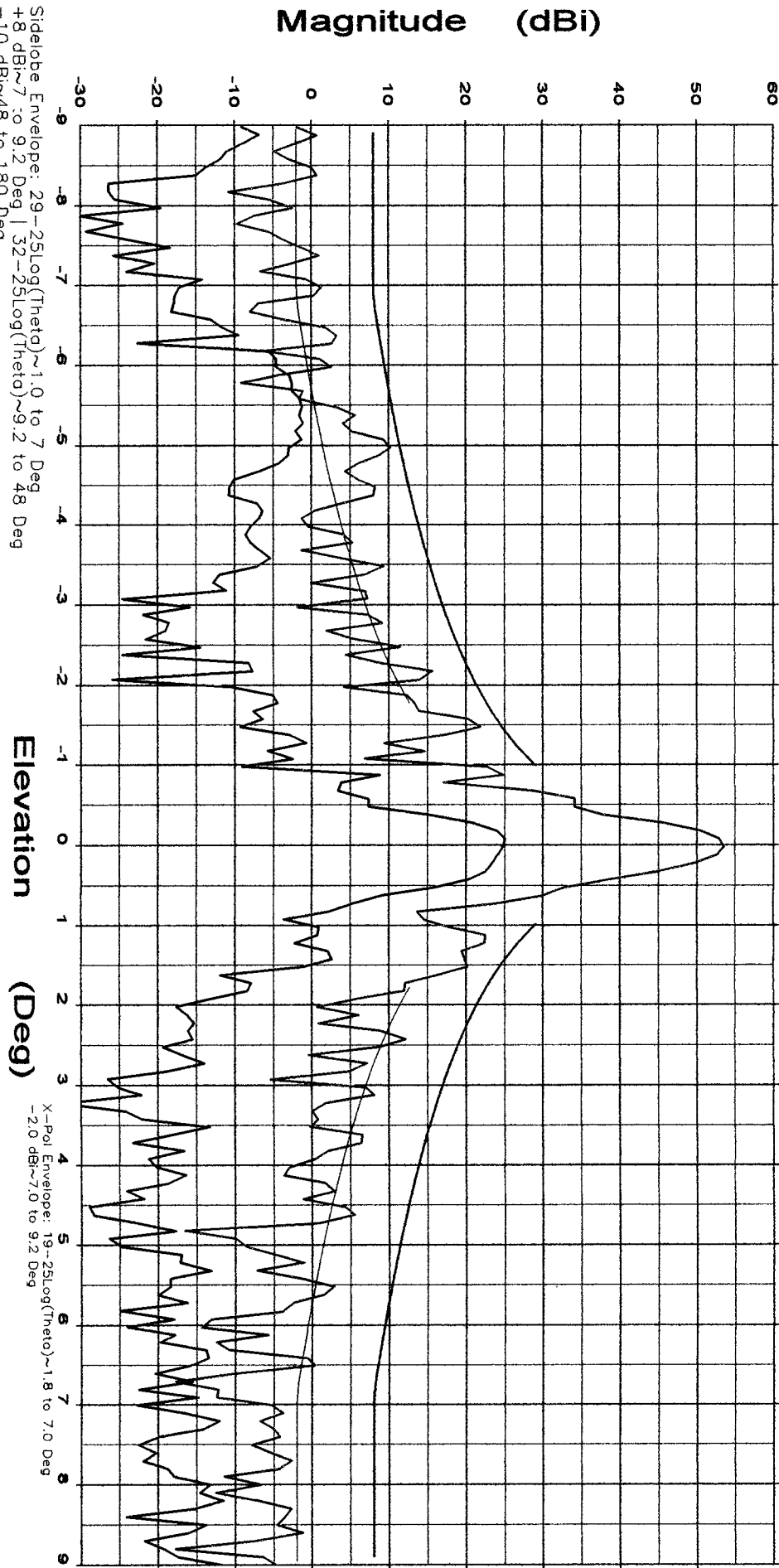
File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 29.750 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



Magnitude (dBi)

Elevation (Deg)

Sidelobe Envelope: 29-25Log(Theta)~1.0 to 7 Deg  
+8 dBi~7.0 to 9.2 Deg | 32-25Log(Theta)~9.2 to 48 Deg  
-10 dBi~48 to 180 Deg

X-Pol Envelope: 19-25Log(Theta)~1.8 to 7.0 Deg  
-2.0 dBi~7.0 to 9.2 Deg

Overlays

112519.dat-ant_under_test	112519.dat	units	dB
112521.dat-ant_under_test	112521.dat	dB	dB

Elevation		Beam Peak	dB
Deg	Deg	0.01	53.45
Deg	Deg	0.05	24.55

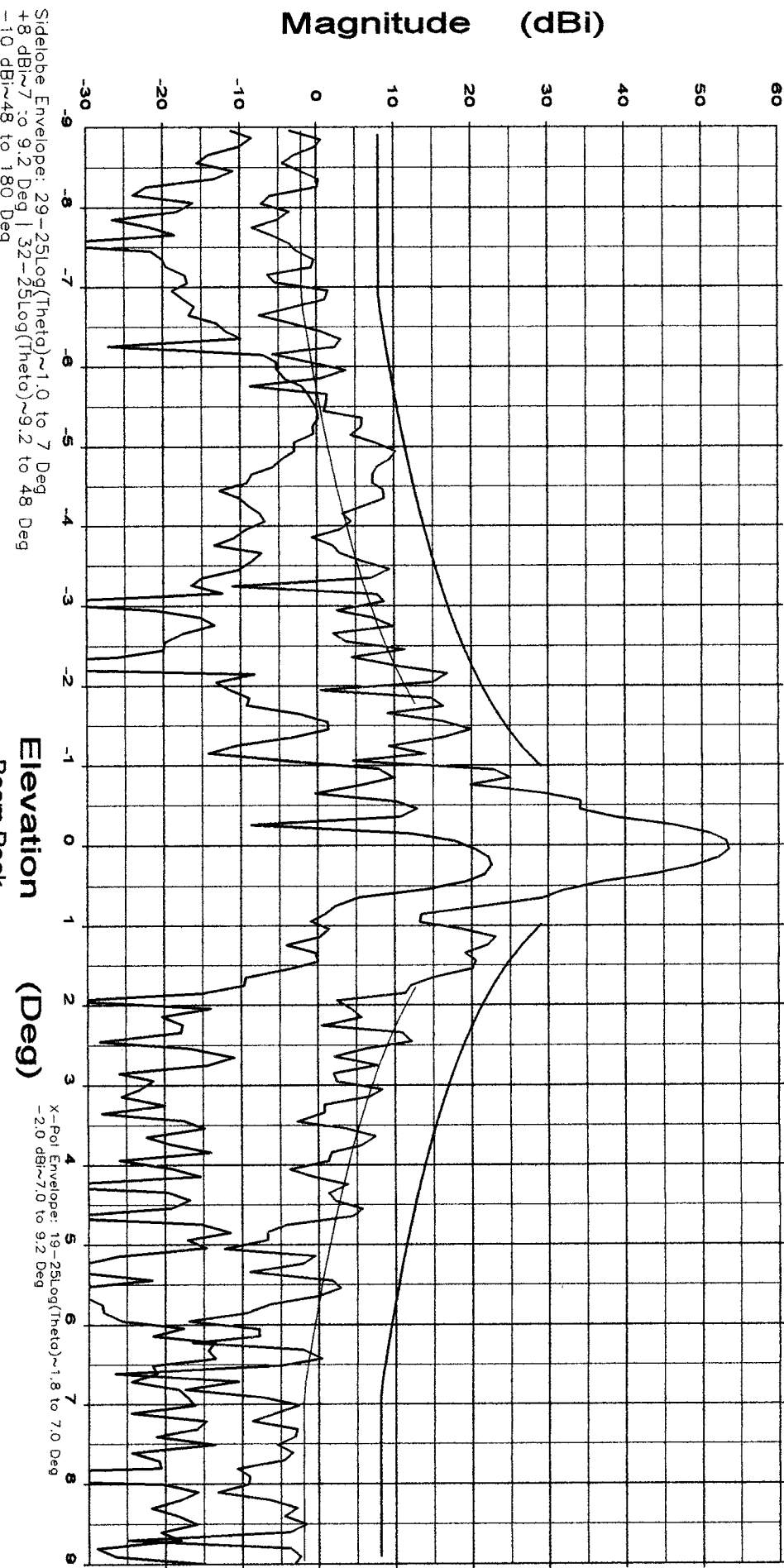
File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 30.000 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



Overlays

112519.dat-ant_under_test	—	Cal. file	112519.dat	units	dB
112521.dat-ant_under_test	—	112521.dat		dB	22.49

Elevation Beam Peak

Deg	0.02	53.39
	0.22	22.49

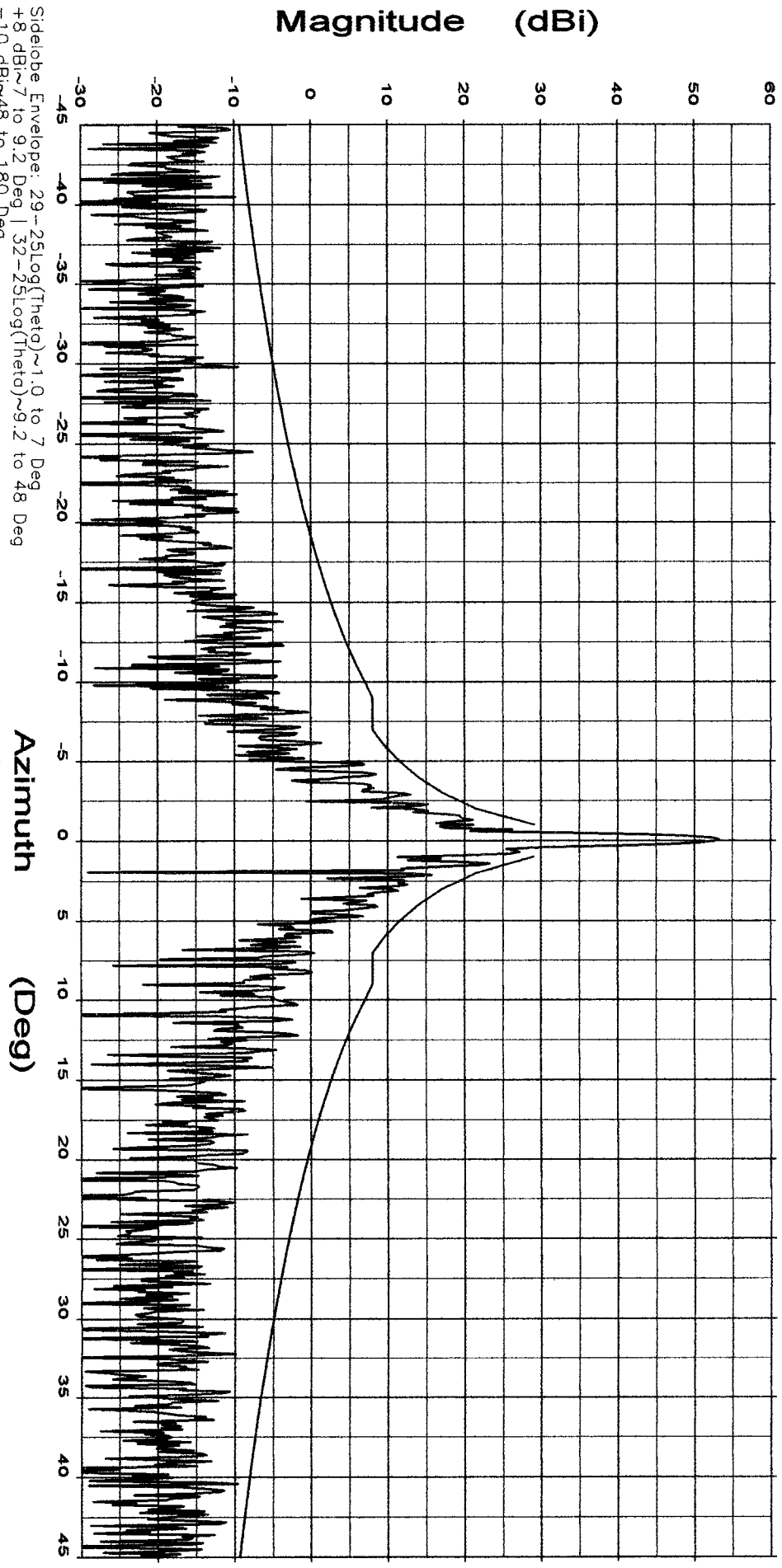
File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 29.500 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



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

Azimuth (Deg)

Beam Peak  
 Deg dB  
 -0.10 53.22

Overlays  
 112516.dat\_ant\_under\_test — Cal file 112516.dat units dBi

File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 29.750 GHz

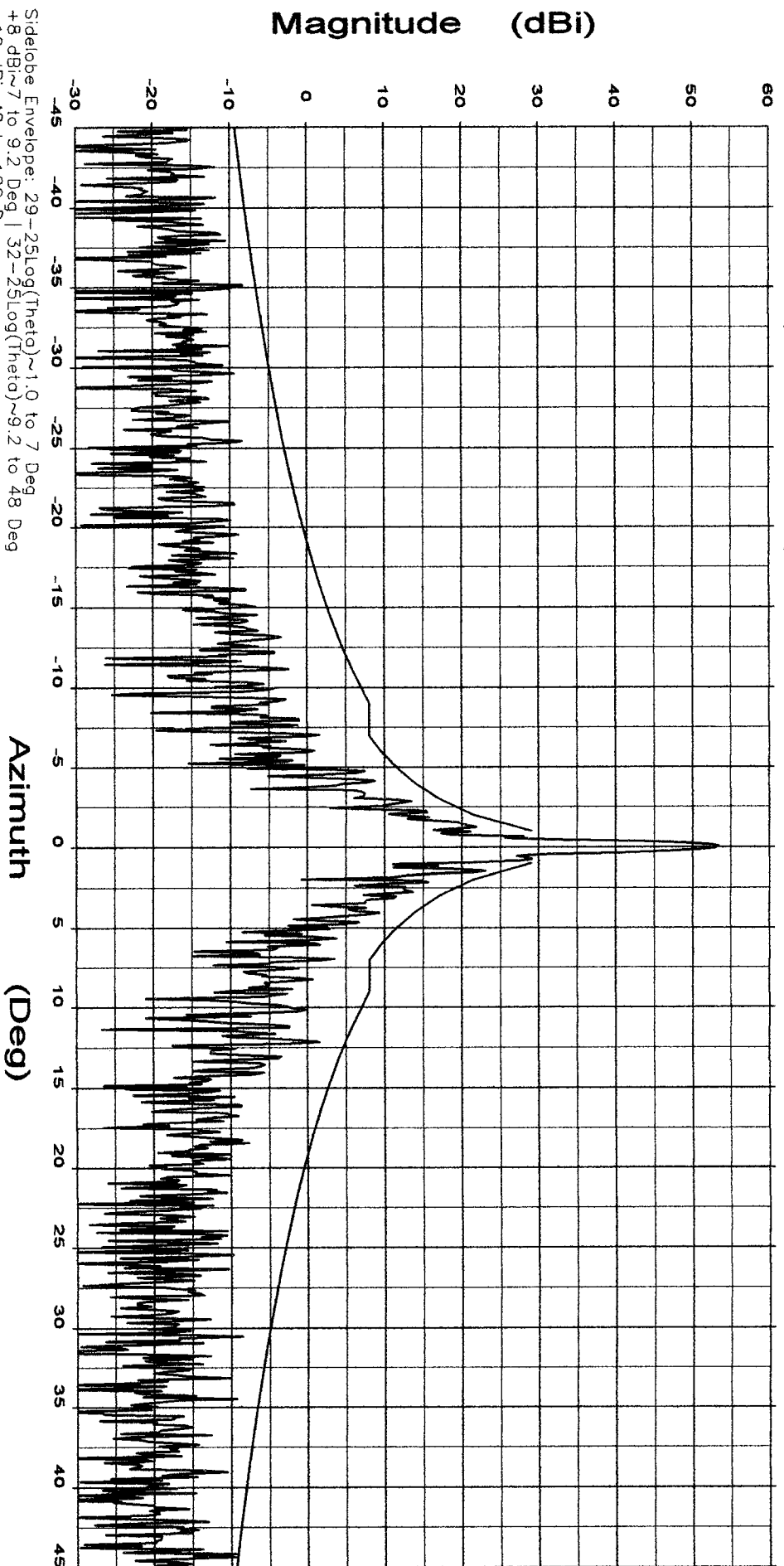
Operator: K. Poovey

Ser. no.: 010903

Channel: ch1

Tx pol: RHCP

Rx pol: RHCP



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  
112516.dat-ant\_under\_test — Cal file 112516.dat units dBi

Azimuth Beam Peak  
Deg dB  
-0.07 53.41

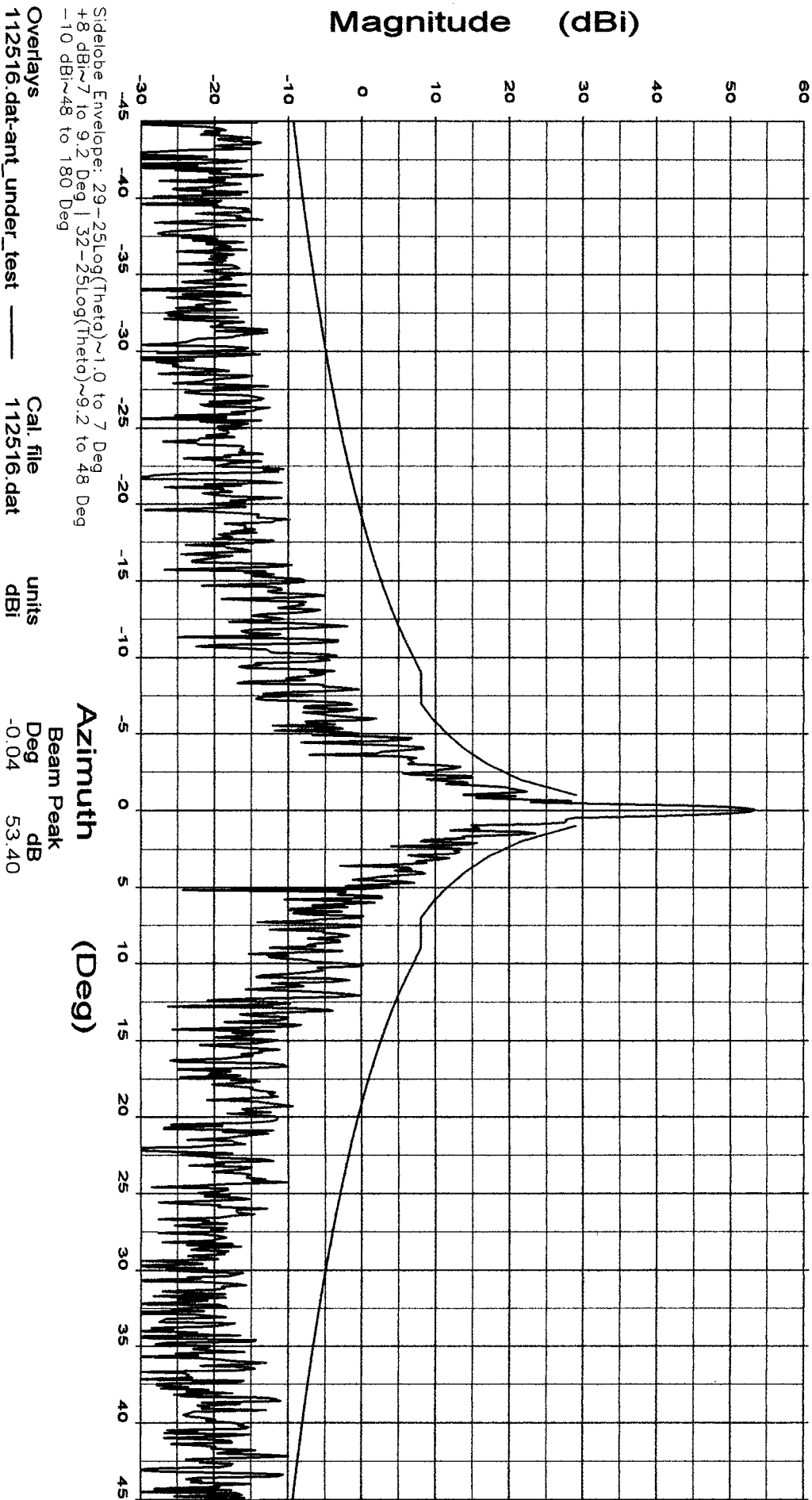
File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 30.000 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



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  
112516.dat-ant\_under\_test

Cal. file  
112516.dat

units  
dBi

Beam Peak  
Deg  
-0.04

dB  
53.40

File: See Legend

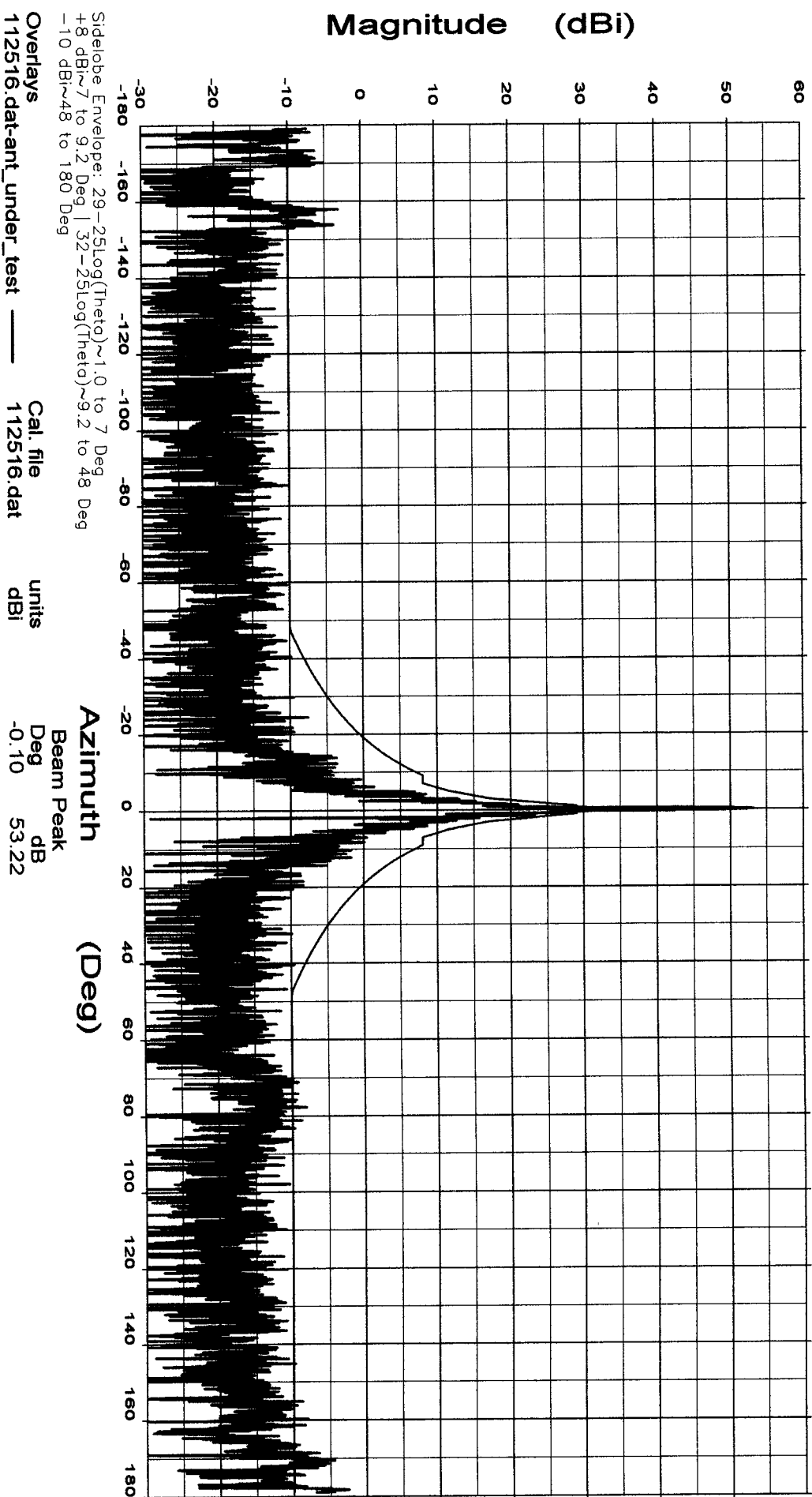
PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 29.500 GHz

Operator: K. Poovey

Ser. no.: 010903

Channel: ch1 Tx pol: RHCP Rx pol: RHCP





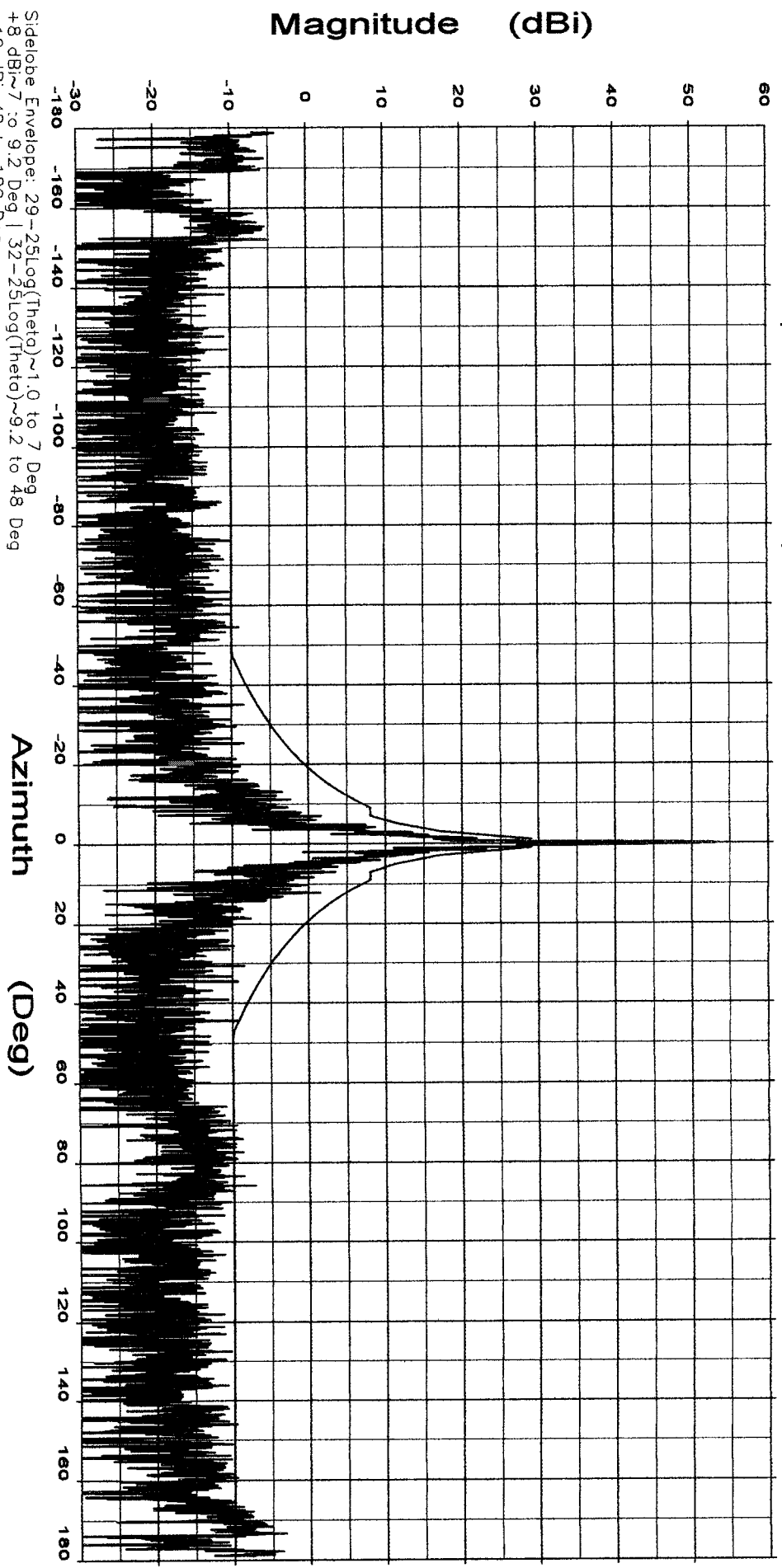
File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 29.750 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



Sidelobe Envelope: 29-25Log(Theta)~1.0 to 7 Deg  
 +8 dBi~7.5 to 9.2 Deg | 32-25Log(Theta)~9.2 to 48 Deg  
 -10 dBi~48 to 180 Deg

Overlays  
 112516.dat-ant\_under\_test — Cal. file 112516.dat

units dBi  
 Azimuth Beam Peak  
 Deg dB  
 -0.07 53.41

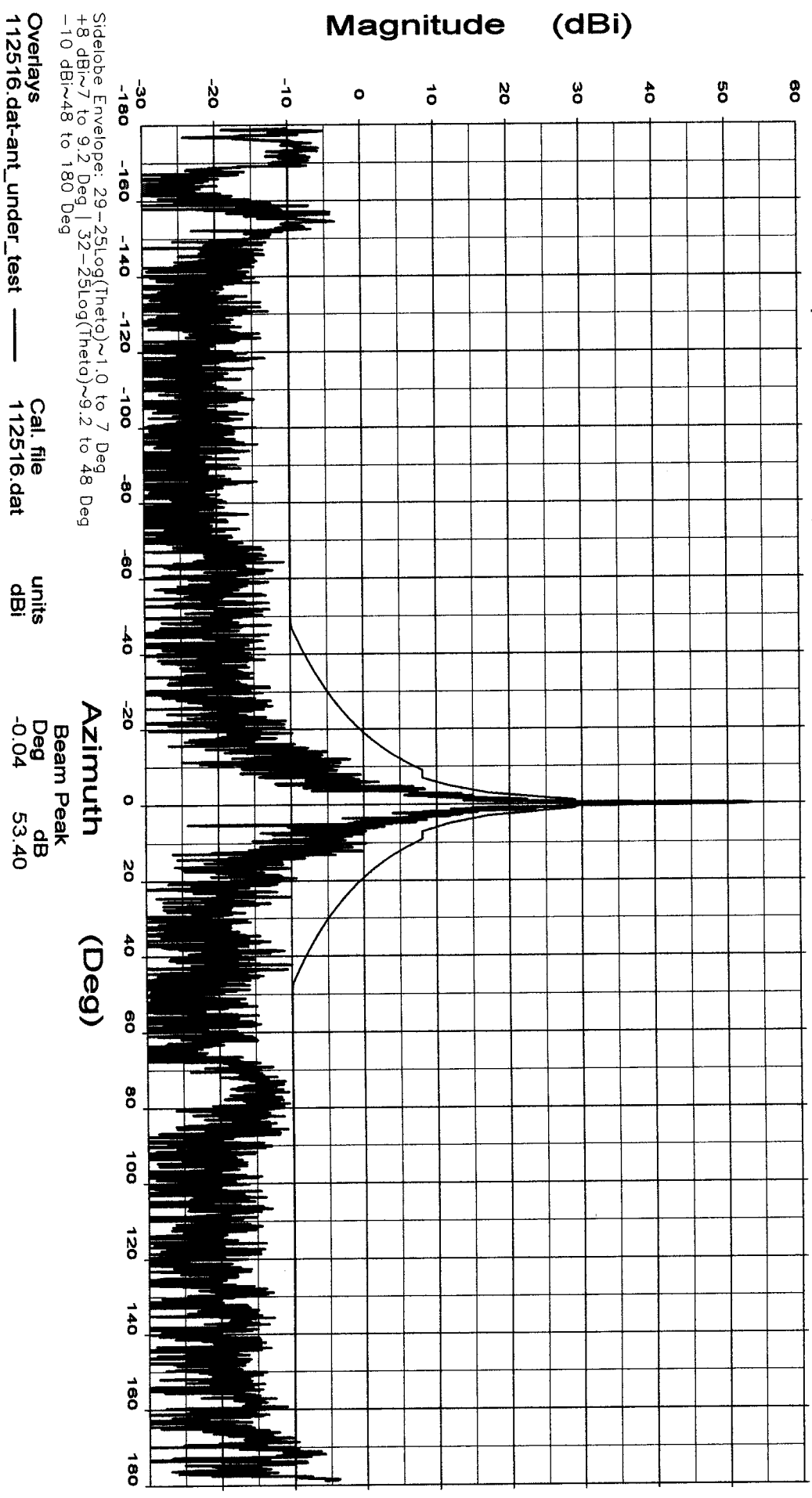
File: See Legend

PRODELIN  
1.8 METER .8 f/d  
Ka-Band Antenna System

Frequency : 30.000 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



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  
112516.dat-ant\_under\_test — Cal. file 112516.dat units dBi

Azimuth Beam Peak  
Deg dB  
-0.04 53.40

# Section VI

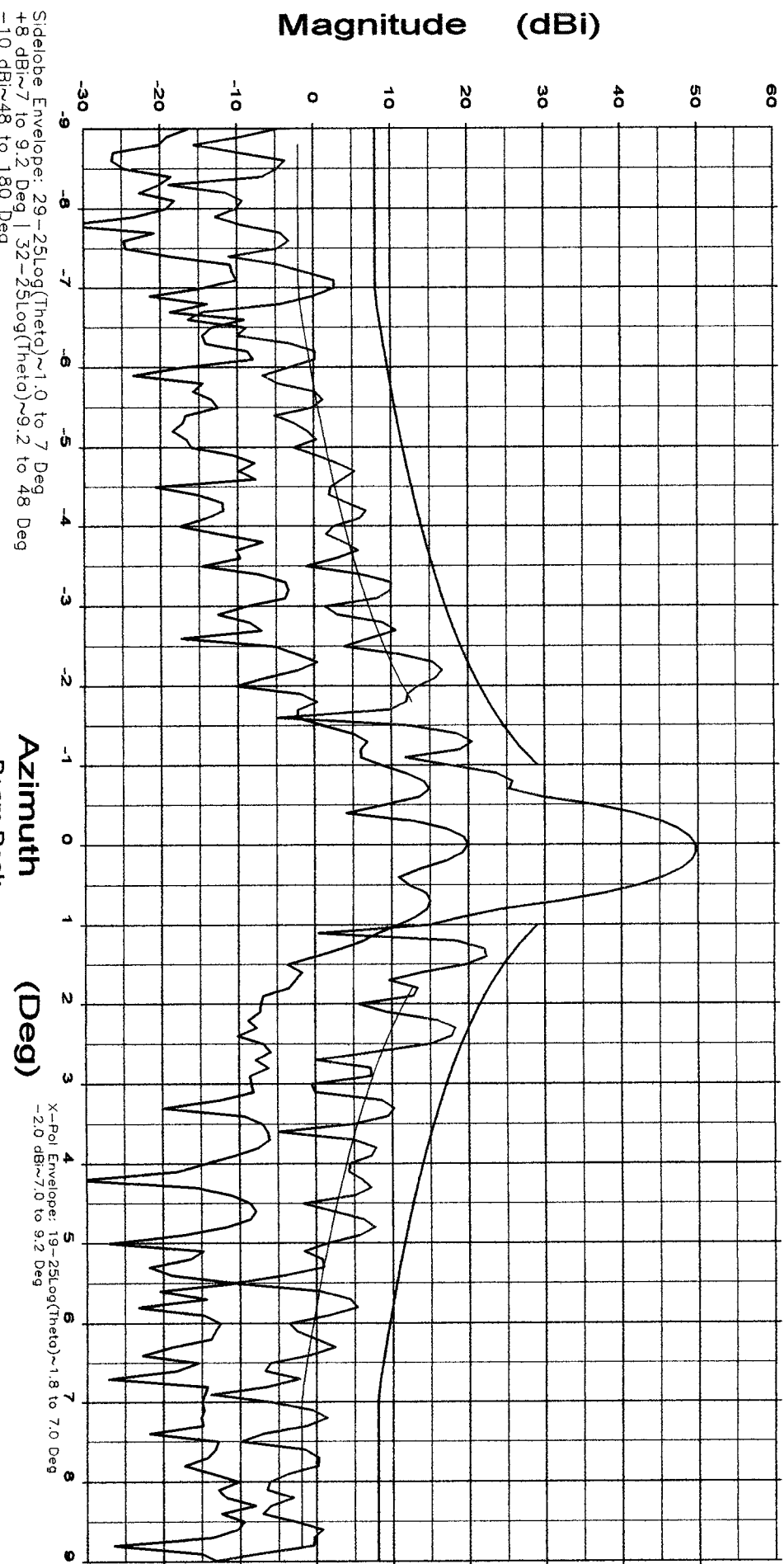
File: See Legend

Frequency : 19.700 GHz

PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



Overlays  
 112557.dat~ant\_under\_test — Cal file  
 112557.dat — 112557.dat  
 112559.dat~ant\_under\_test — 112559.dat

Azimuth (Deg) Beam Peak  
 Deg dB  
 0.10 49.74  
 0.00 19.96

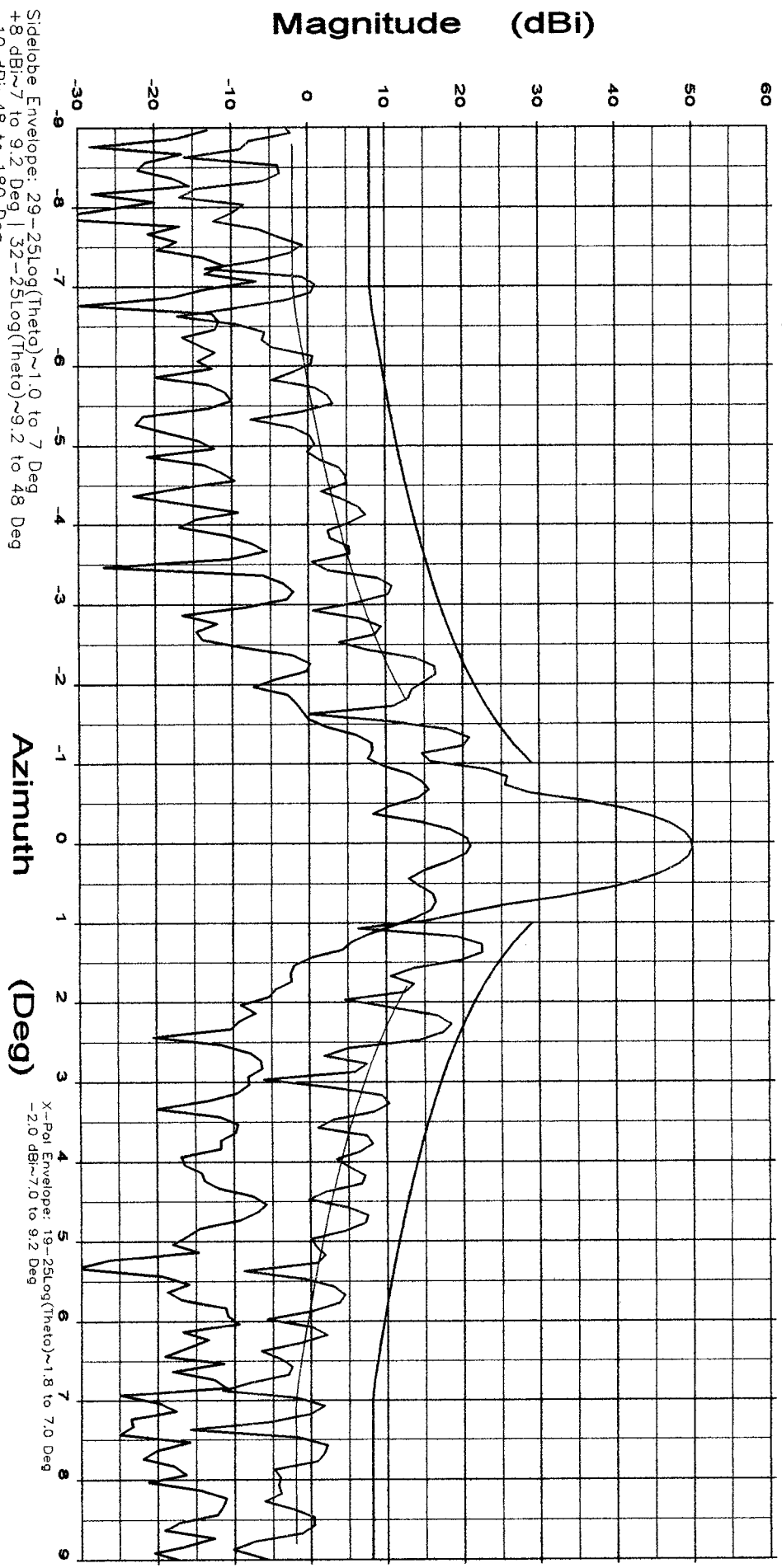
File: See Legend

Frequency : 19.950 GHz

PRODELIN  
1.8.8 f/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



Overlays

112557.dat-ant_under_test	—	Cal. file	112557.dat	units	dB
112559.dat-ant_under_test	—	112559.dat		dB	20.91

<b>Azimuth</b>	<b>Beam Peak</b>
Deg	Deg
0.04	49.92
0.03	20.91

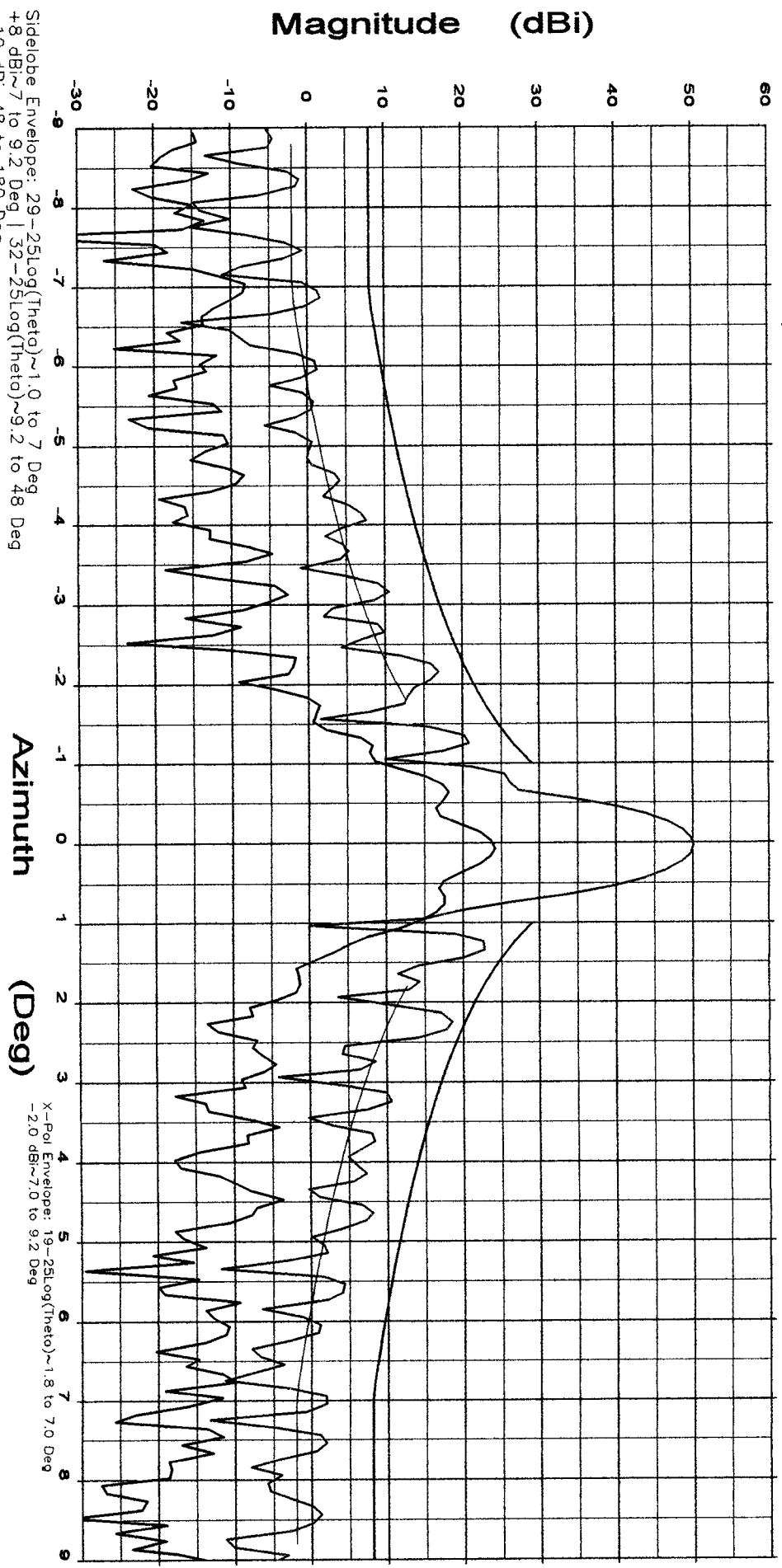
File: See Legend

Frequency : 20.200 GHz

PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



Overlays

112557.dat-ant_under_test	—	Cal. file	112557.dat	units	dB
112559.dat-ant_under_test	—	112559.dat		dB	24.11

<b>Azimuth</b>	<b>Beam Peak</b>
Deg	dB
0.03	50.13
0.06	24.11

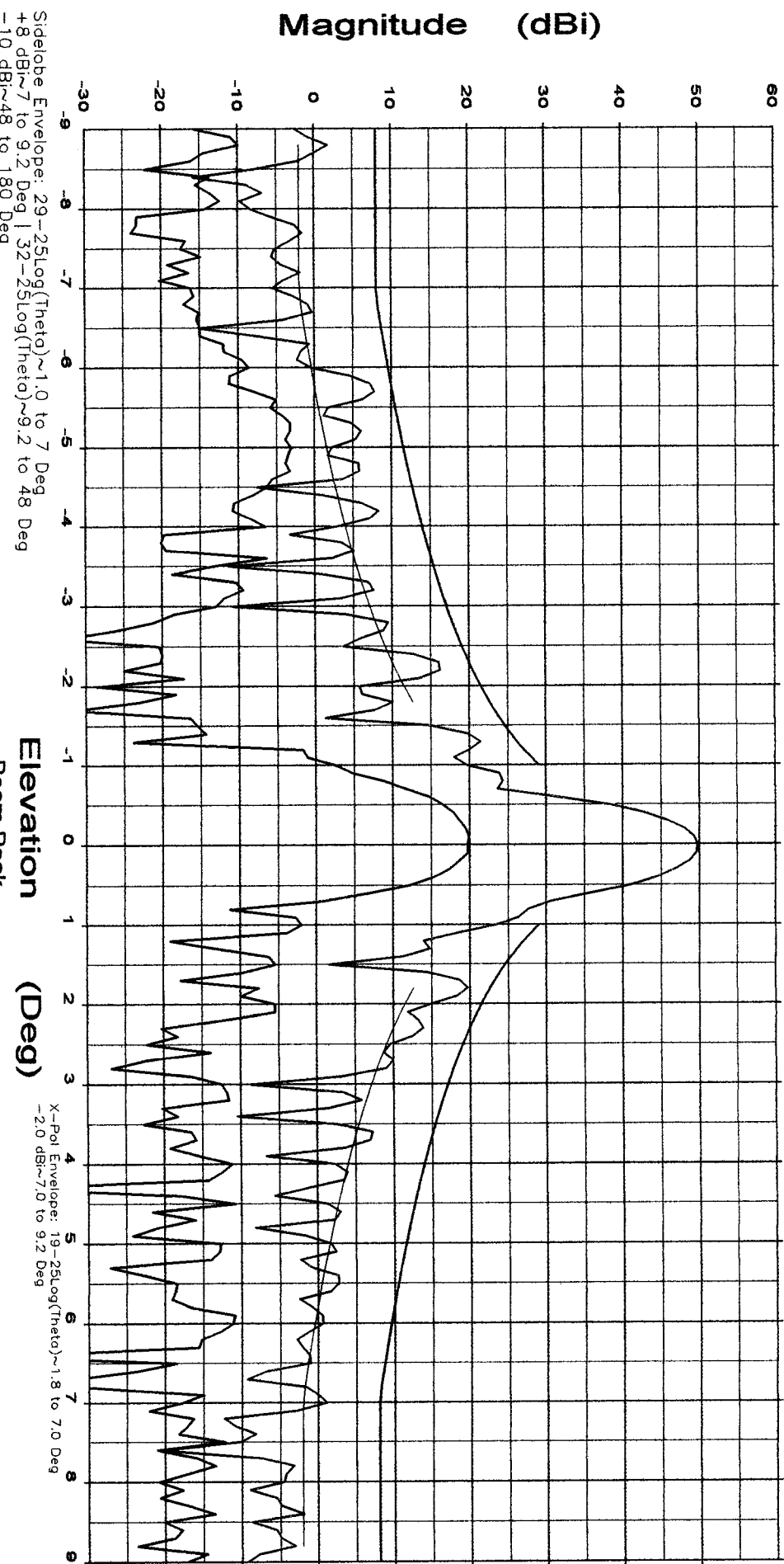
File: See Legend

Frequency : 19.700 GHz

PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



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  
 112558.dat-ant\_under\_test ——— Cal file 112558.dat  
 112560.dat-ant\_under\_test ——— Cal file 112560.dat

Elevation (Deg)

Beam Peak	units	dB
0.03	dBi	49.78
-0.08	dBi	19.90

X-Pol Envelope: 19-25Log(Theta)~1.8 to 7.0 Deg  
 -2.0 dBi~-7.0 to 9.2 Deg

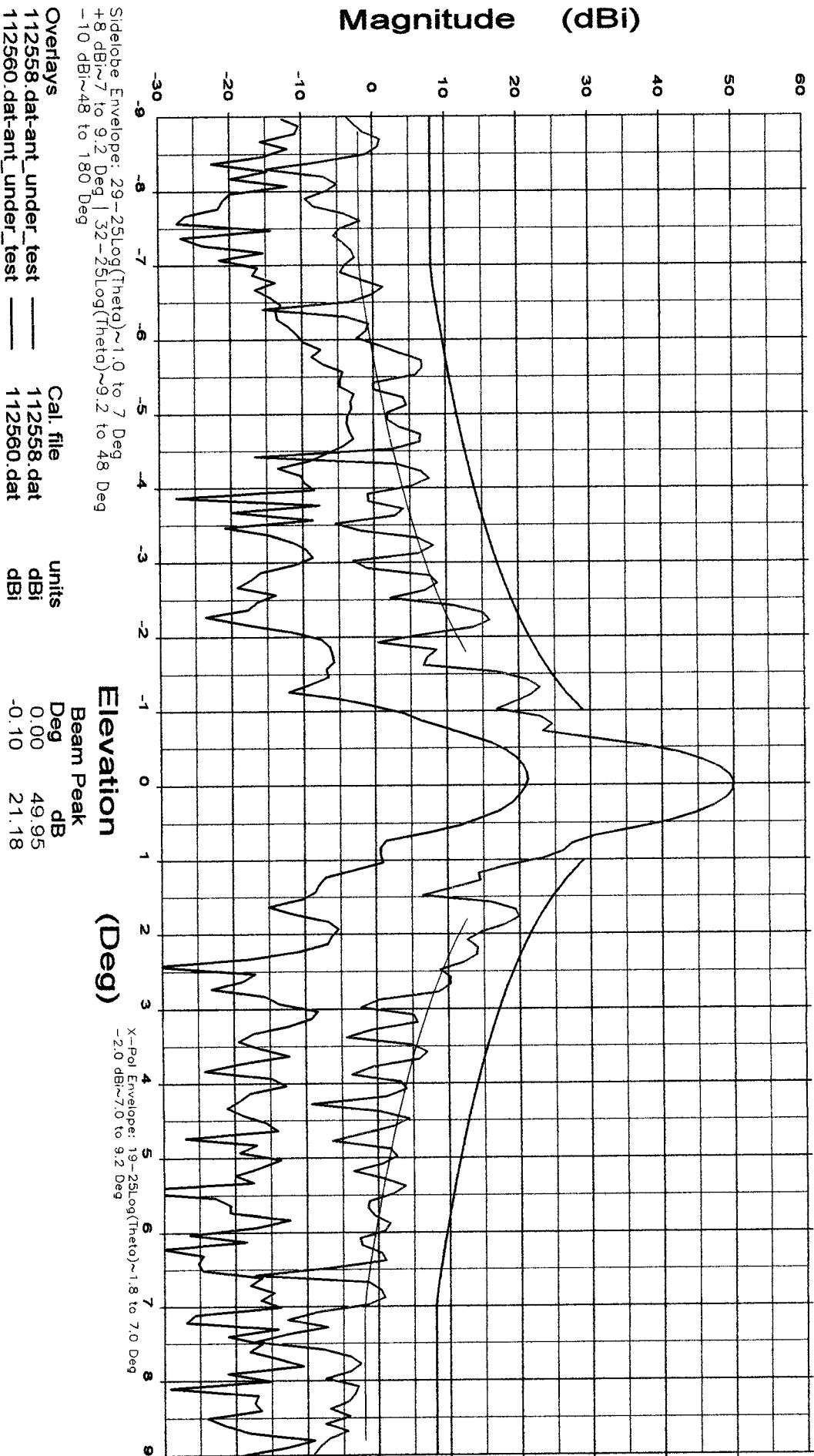
File: See Legend

Frequency : 19.950 GHz

PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP





File: See Legend

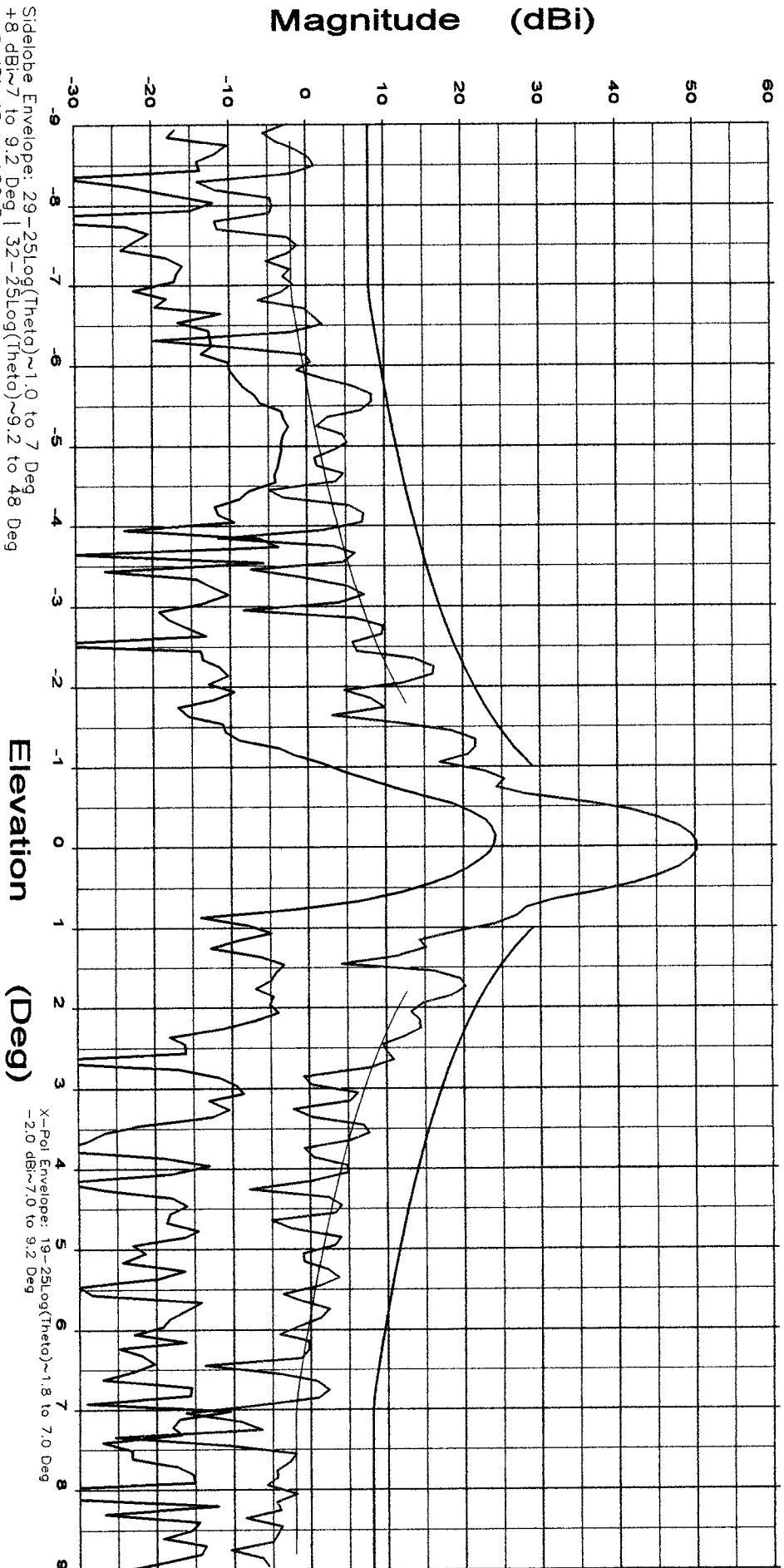
PRODELIN

Frequency : 20.200 GHz

1.8.8 f/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



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: 19-25Log(Theta)~-1.8 to 7.0 Deg  
-2.0 dBi~7.0 to 9.2 Deg

Overlays

112558.dat-ant_under_test	——	Cal. file	112558.dat	units	dB
112560.dat-ant_under_test	——	112560.dat		dBi	50.24
				dBi	24.09

Elevation Beam Peak

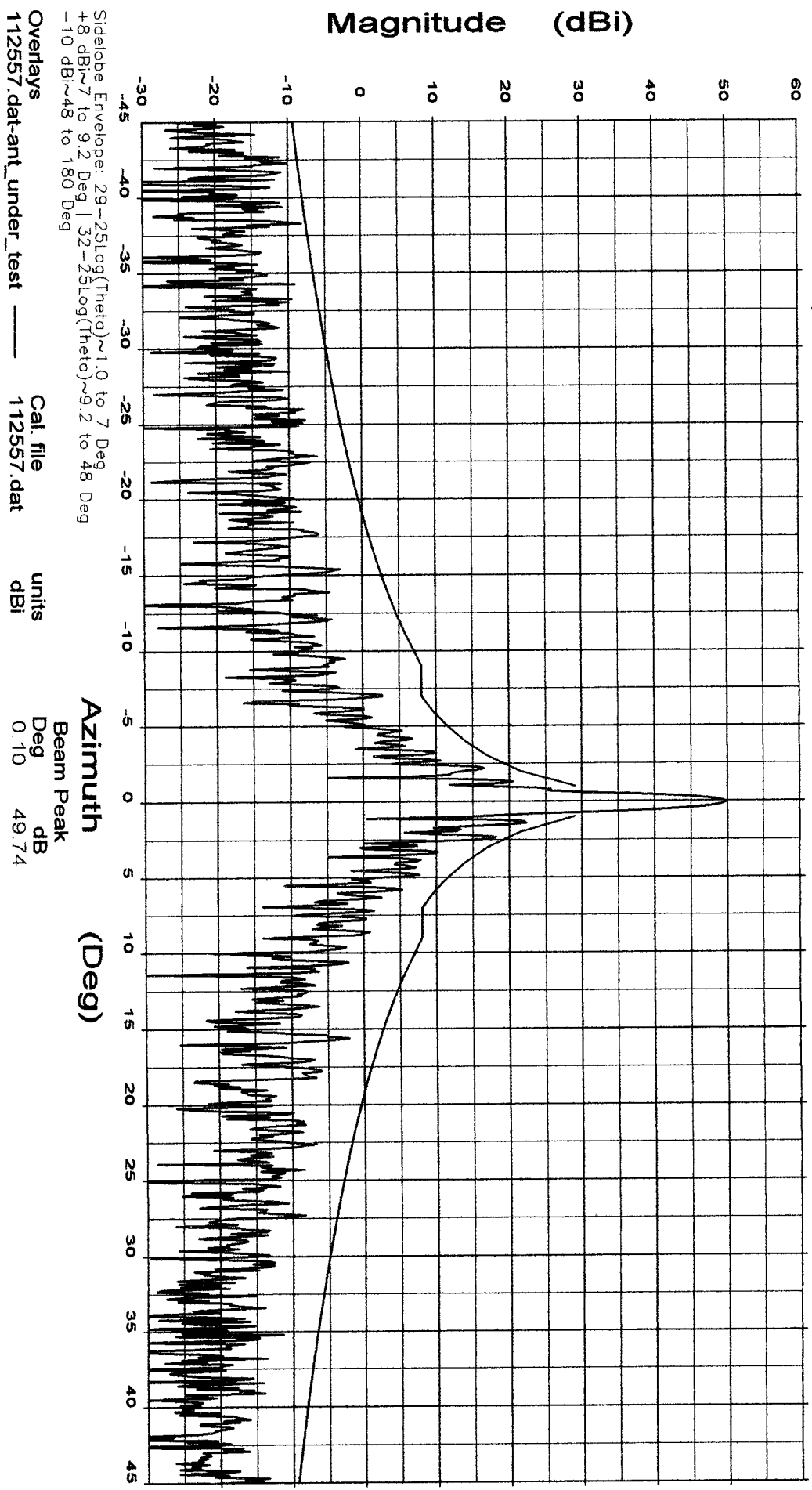
Deg	0.00	50.24
	-0.11	24.09

File: See Legend

Frequency : 19.700 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
THRU PORT  
Tx pol: LHCP Rx pol: LHCP



File: See Legend

PRODELIN

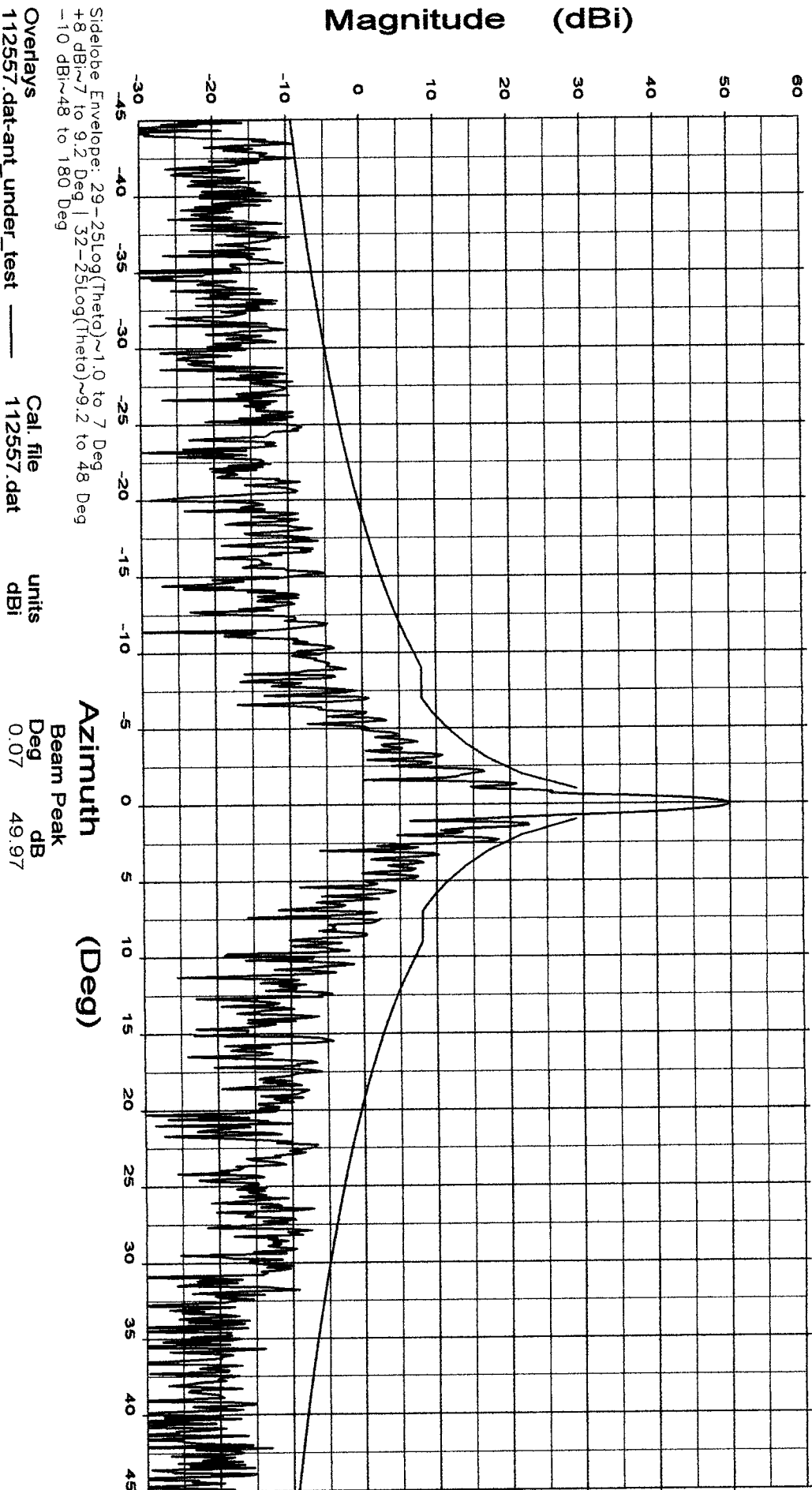
1.8.8 t/d

Ka-Band Antenna System  
THRU PORT

Frequency : 19.950 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



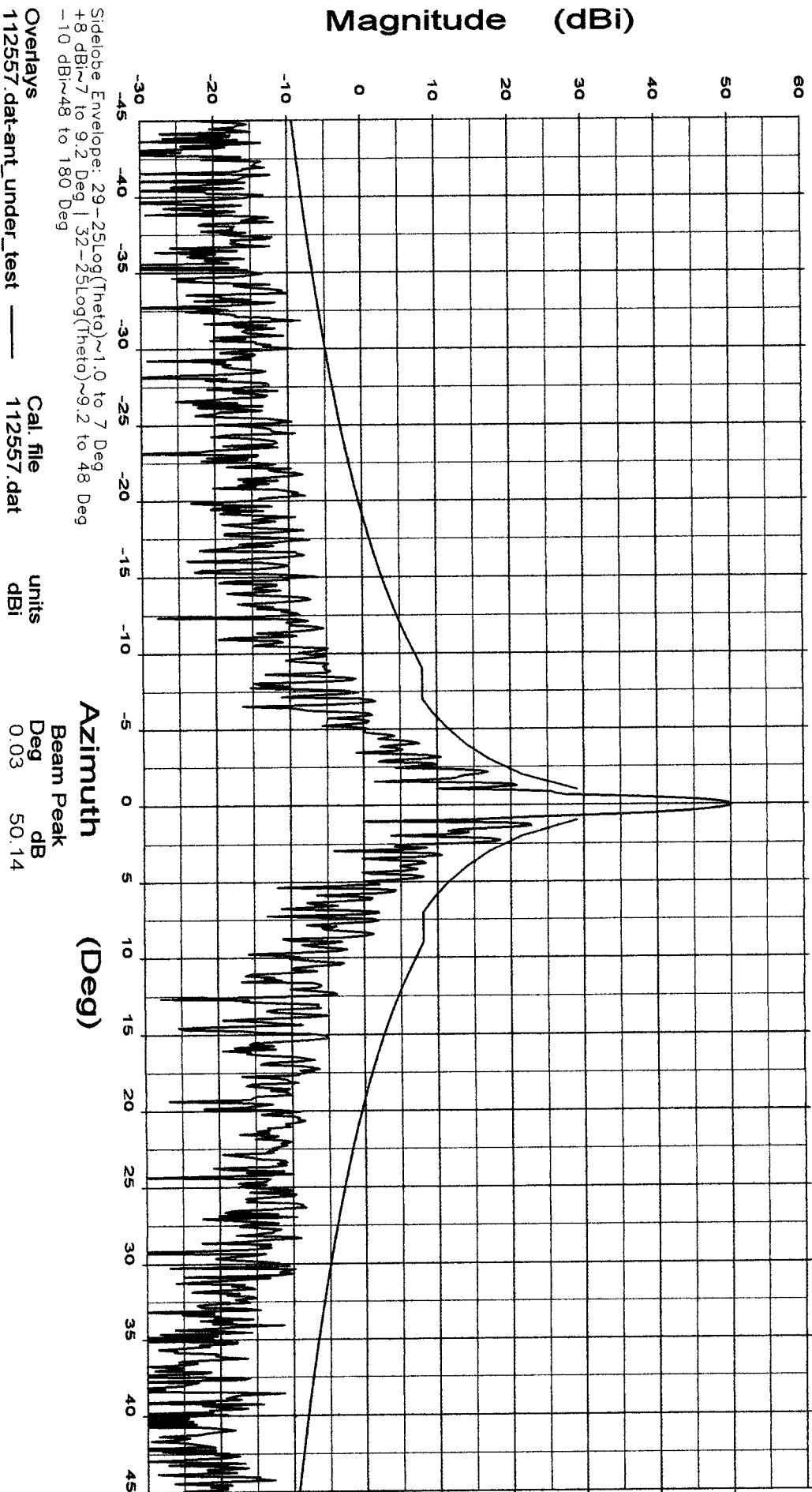
File: See Legend

Frequency : 20.200 GHz

PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



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  
112557.dat-ant\_under\_test

Cal. file  
112557.dat

units  
dBi

Azimuth (Deg)  
Beam Peak  
Deg 0.03 dB 50.14

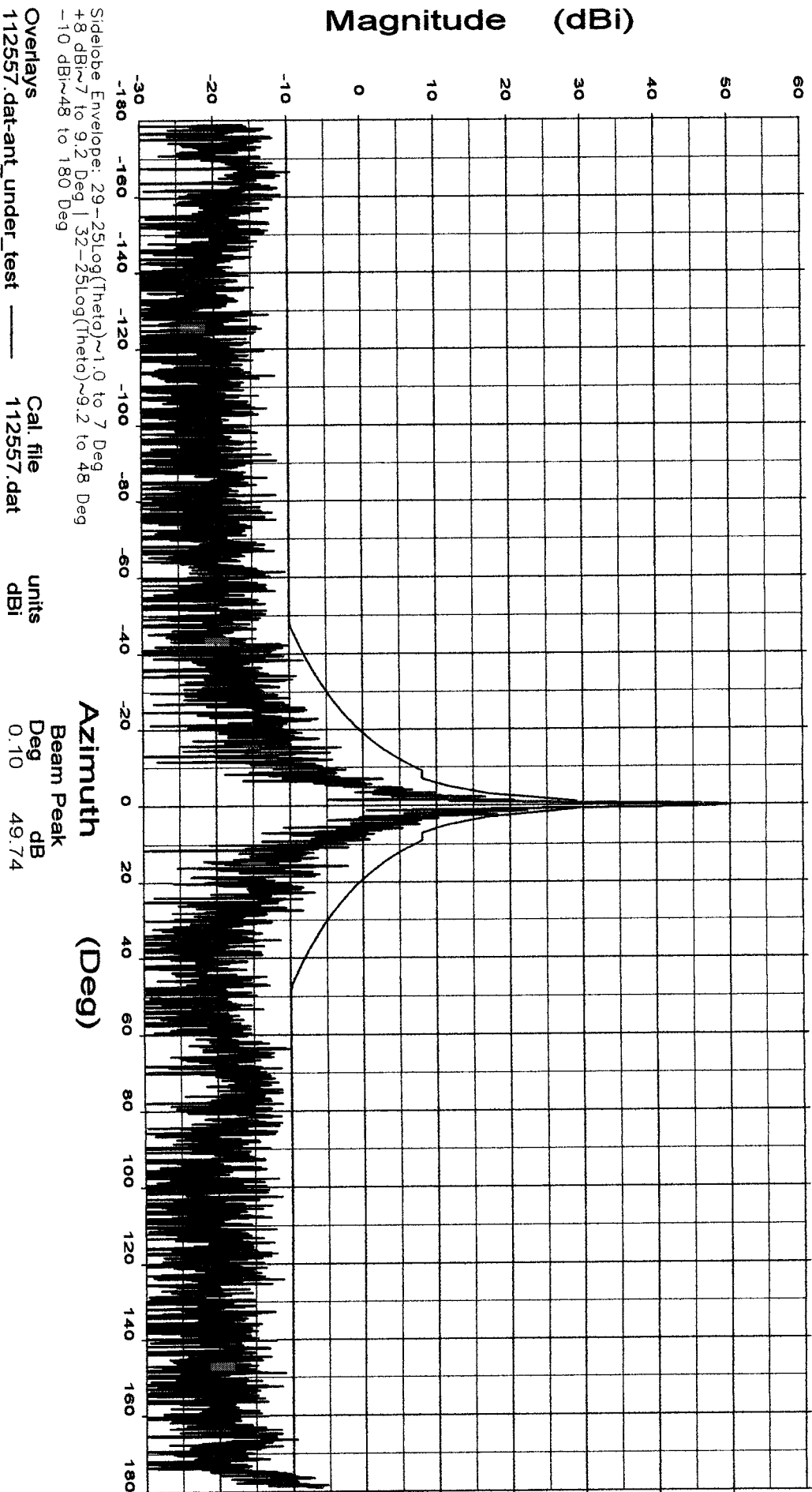
File: See Legend

Frequency : 19.700 GHz

PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



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  
112557.dat-ant\_under\_test

Cal. file  
112557.dat

units  
dBi

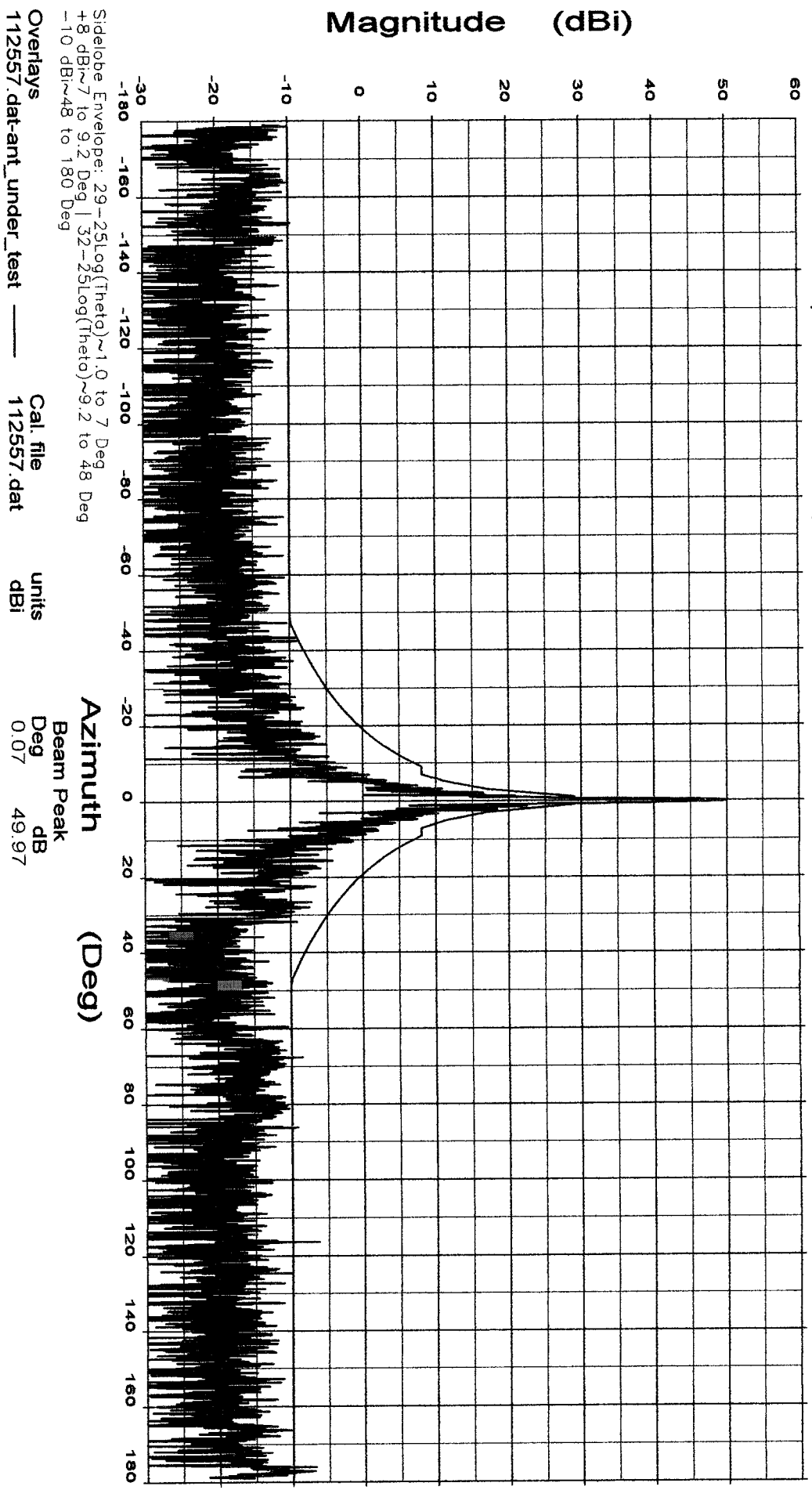
Azimuth (Deg)  
Beam Peak  
Deg dB  
0.10 49.74

File: See Legend

Frequency : 19.950 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

PRODELIN  
1.8 .8 t/d  
Ka-Band Antenna System  
THRU PORT  
Tx pol: LHCP Rx pol: LHCP



File: See Legend

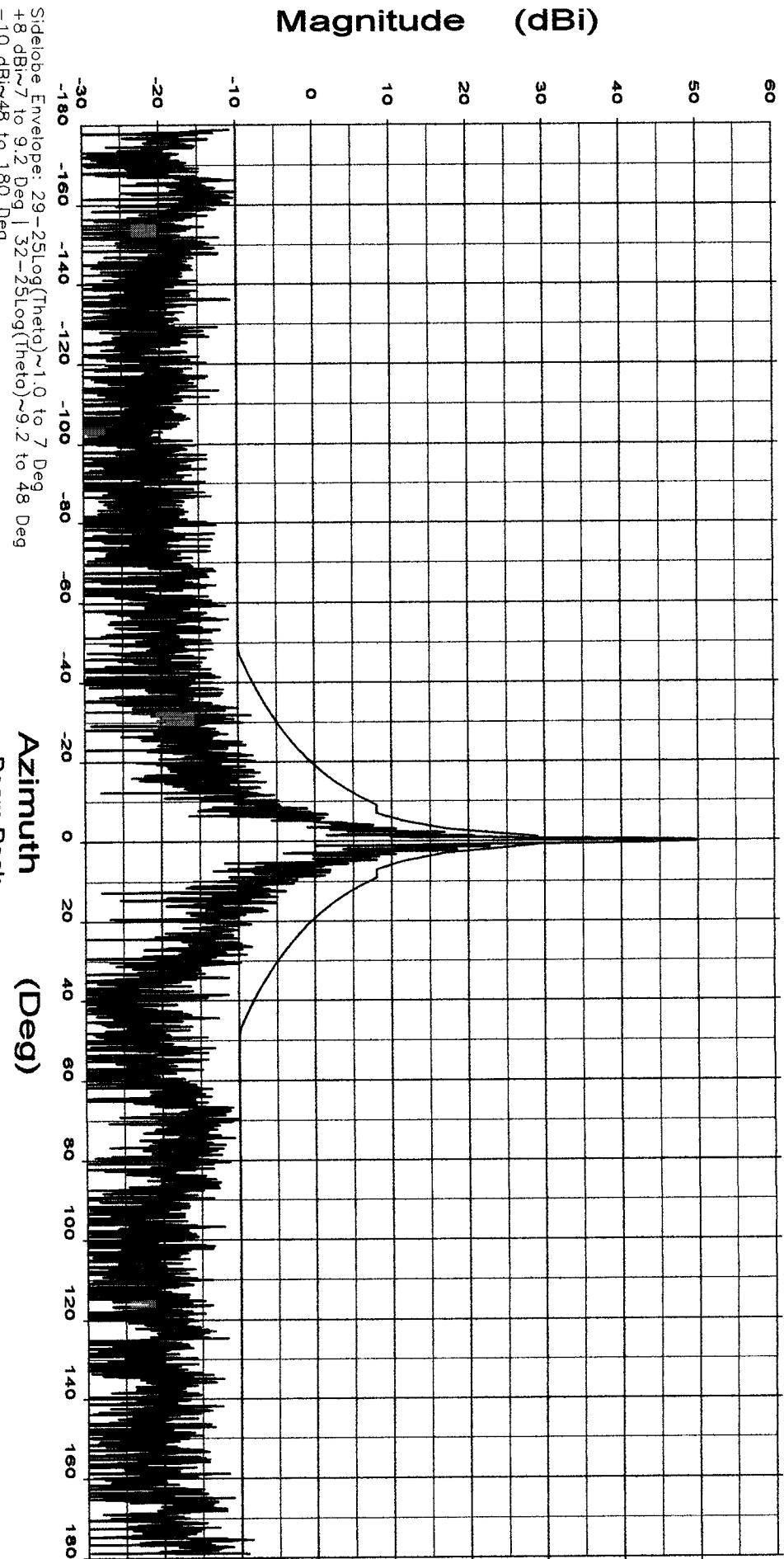
PRODELIN

Frequency : 20.200 GHz

1.8.8 f/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



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

Azimuth Beam Peak  
 Deg dB  
 0.03 50.14

Overlays  
 112557.dat-ant\_under\_test — Cal. file 112557.dat units dBi

# Section VII



File: See Legend

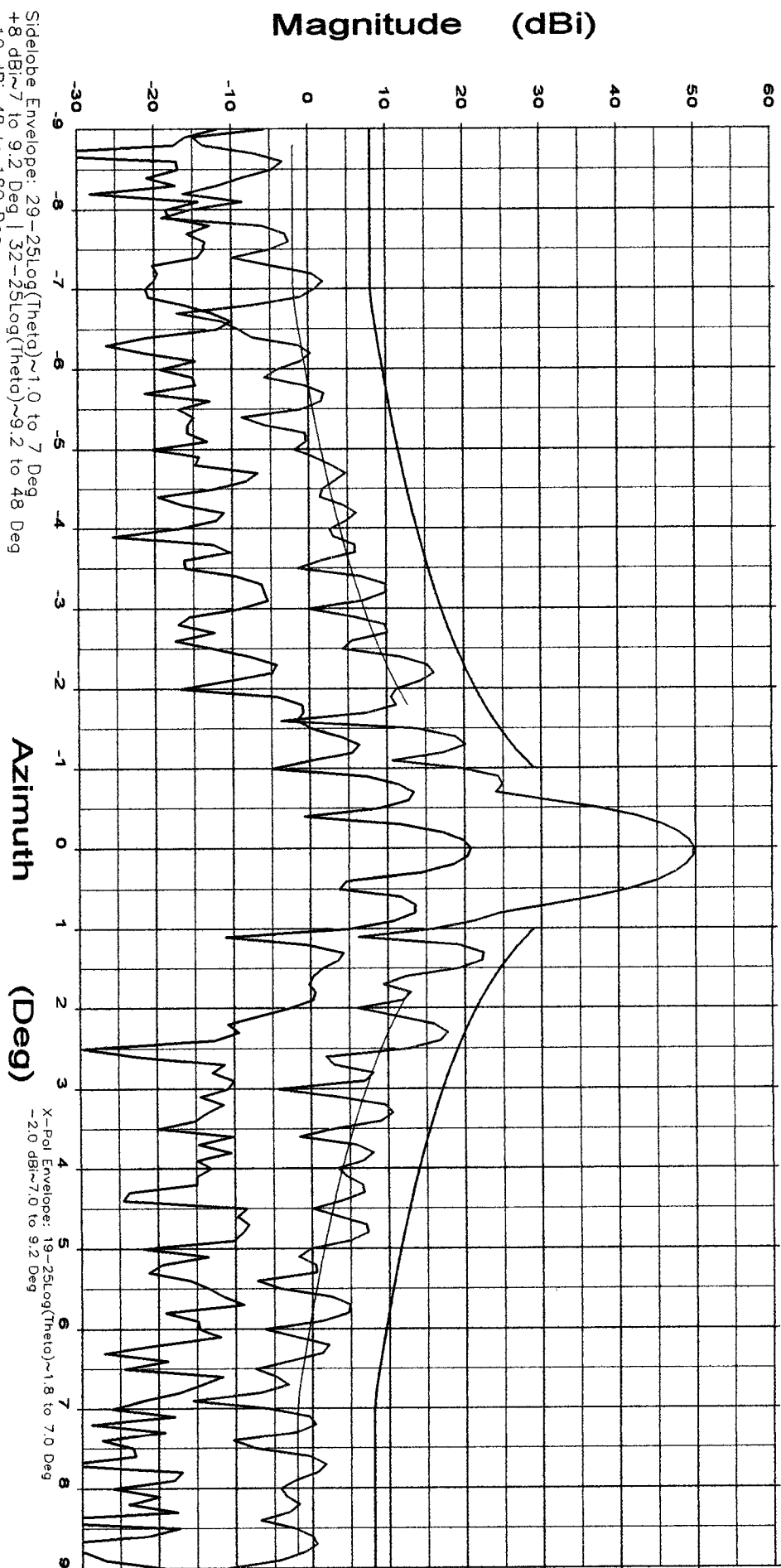
PRODELIN

Frequency : 19.700 GHz

1.8 .8 f/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



Overlays  
112532.dat-ant\_under\_test  
112541.dat-ant\_under\_test

Cal file  
112532.dat  
112541.dat

units  
dBi  
dBi

Azimuth		Beam Peak	
Deg	DB	Deg	dB
0.04	49.73		
0.02	20.71		

File: See Legend

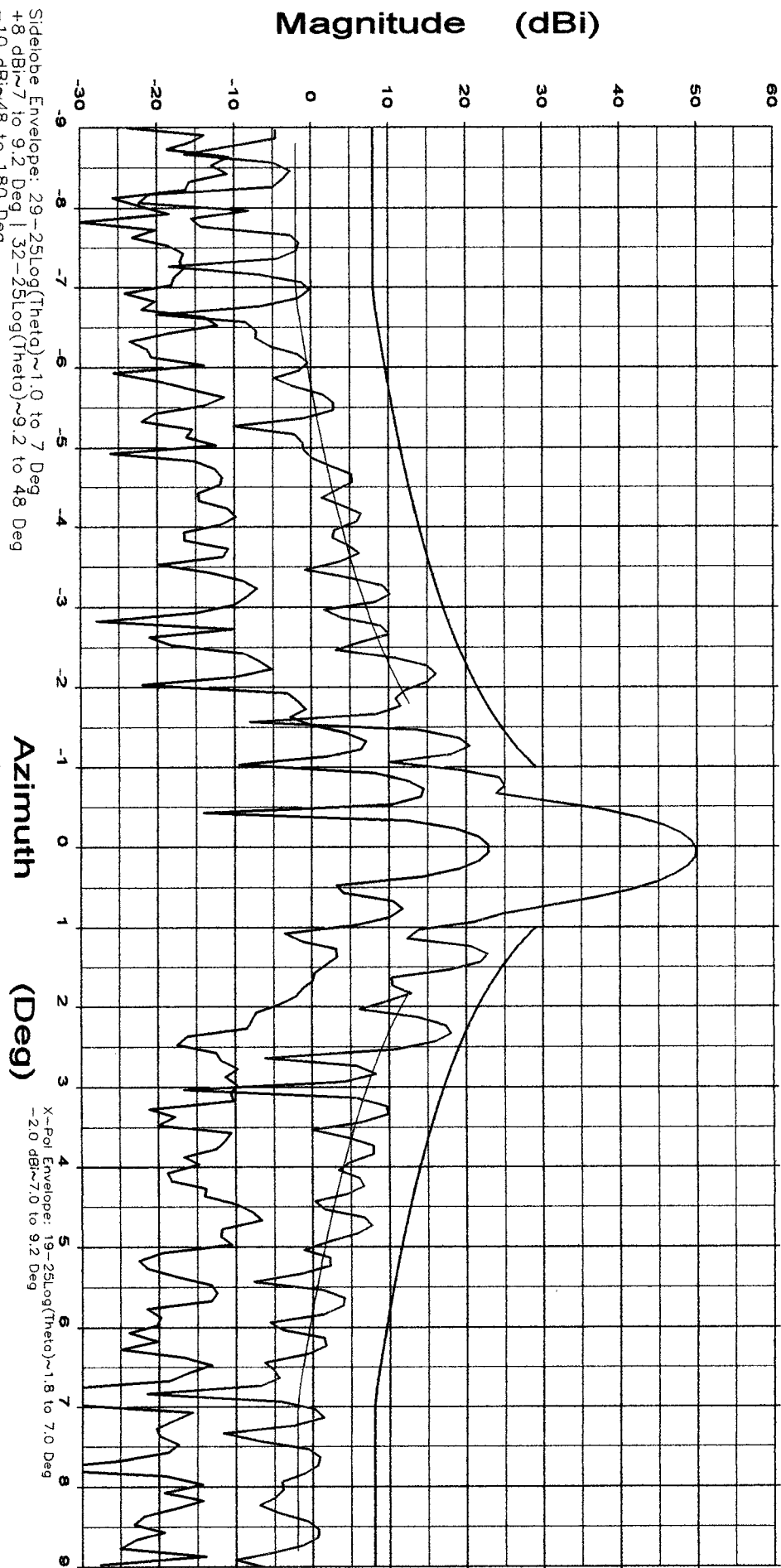
PRODELIN

Frequency : 19.950 GHz

1.8 .8 f/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



Overlays  
112532.dat-ant\_under\_test  
112541.dat-ant\_under\_test

Cal. file  
112532.dat  
112541.dat

units	Beam Peak
dBi	49.85
dB	0.06
Deg	22.86

Azimuth (Deg)

X-Pol Envelope: 19-25Log(Theta)~1.8 to 7.0 Deg  
-2.0 dBi~7.0 to 9.2 Deg

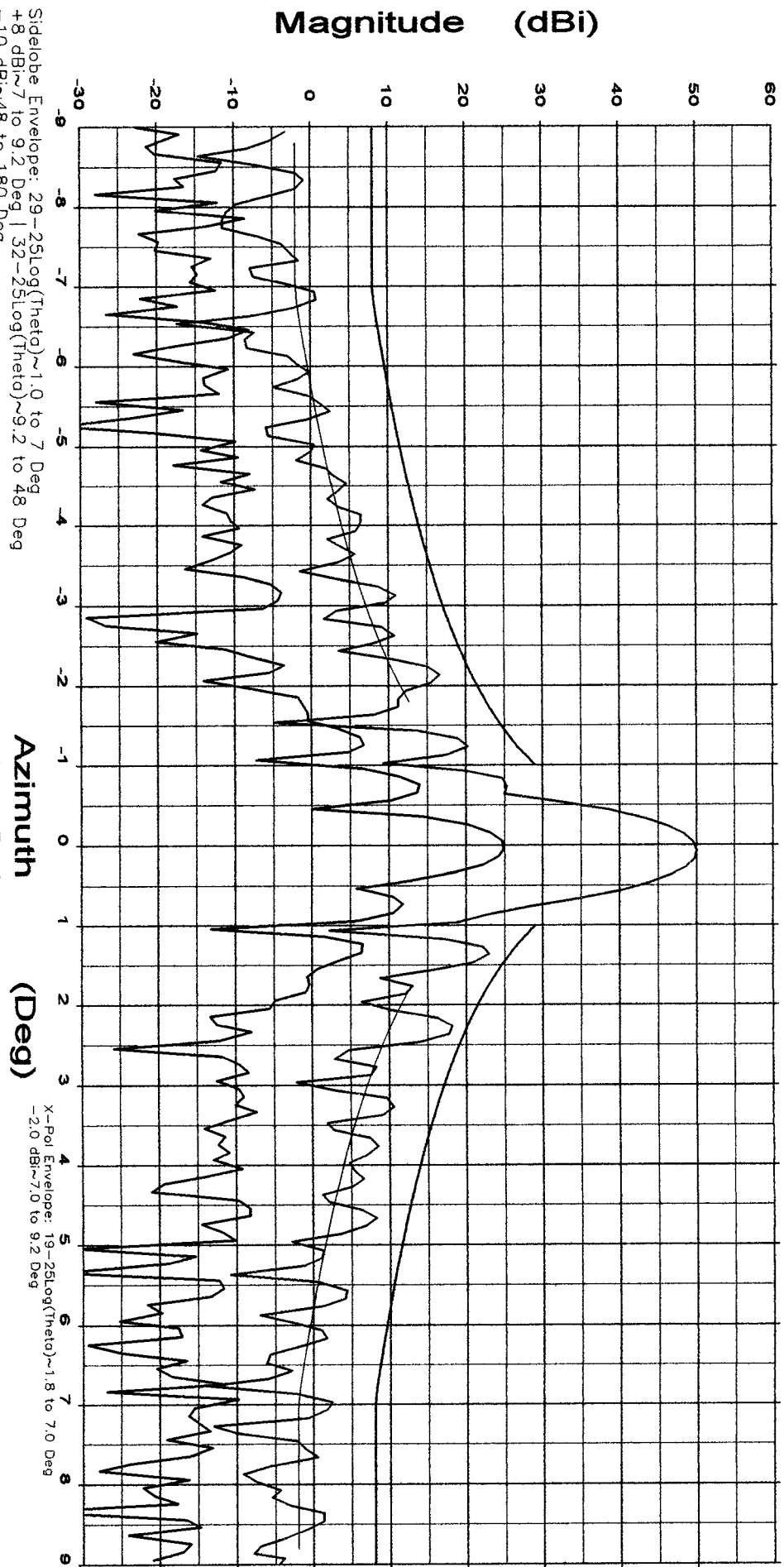
File: See Legend

Frequency : 20.200 GHz

PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



Overlays

112532.dat-ant_under_test	—	Cal. file	112532.dat	units	dB
112541.dat-ant_under_test	—	112541.dat		dB	

<b>Azimuth</b>	<b>Beam Peak</b>
Deg	dB
0.07	50.05
0.02	24.87

File: See Legend

Operator: K. Poovey

Ser. no.: 010903

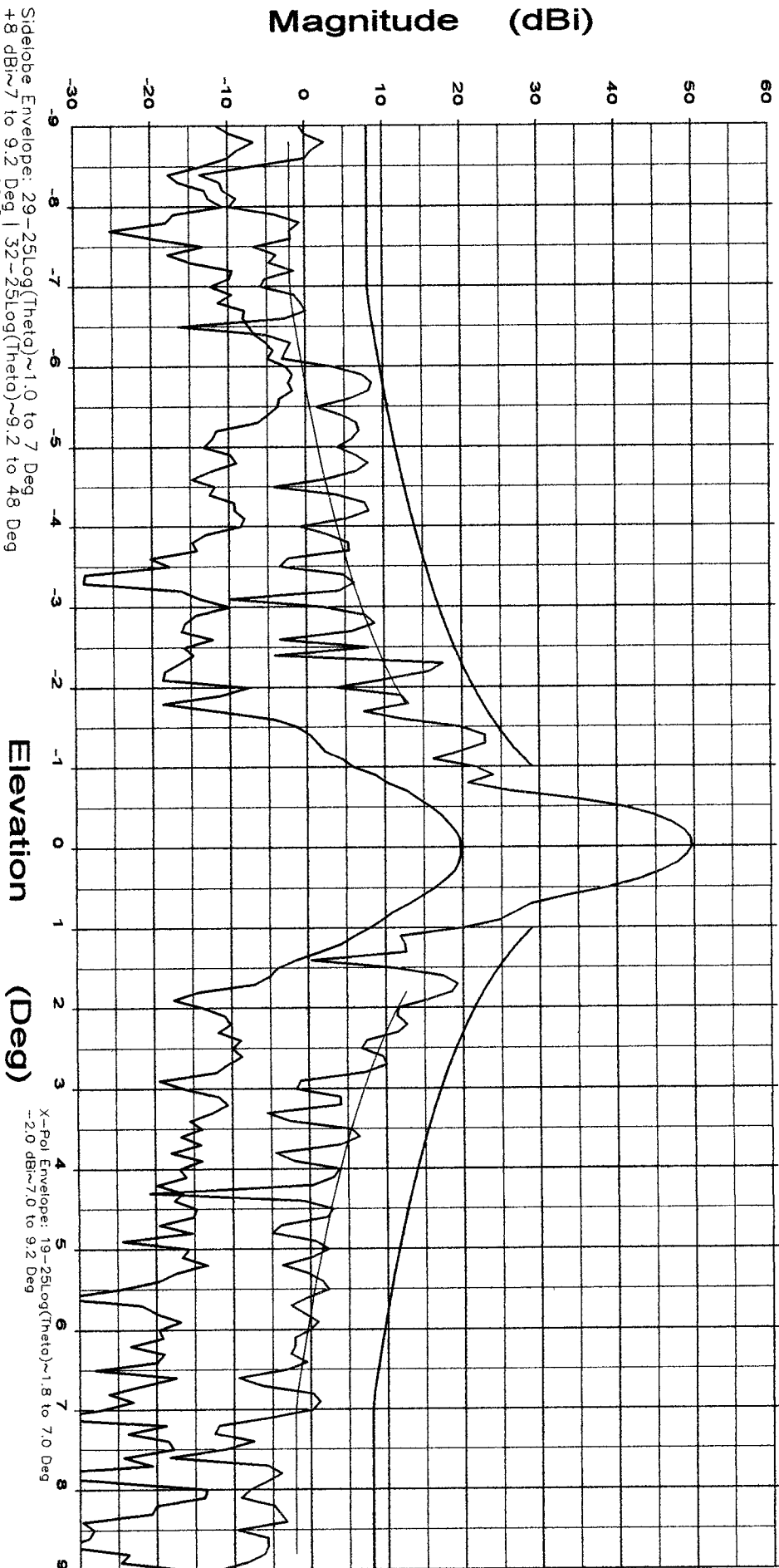
Tx pol: RHCP

Rx pol: RHCP

PRODELIN

1.8 .8 f/d  
Ka-Band Antenna System  
THRU PORT

Frequency : 19.700 GHz



Overlays

112540.dat-ant_under_test	—	Cal file	112540.dat	units
112542.dat-ant_under_test	—	112542.dat		dB

<b>Elevation</b>	<b>Beam Peak</b>	<b>dB</b>
Deg	Deg	
-0.03	49.67	
0.02	19.77	

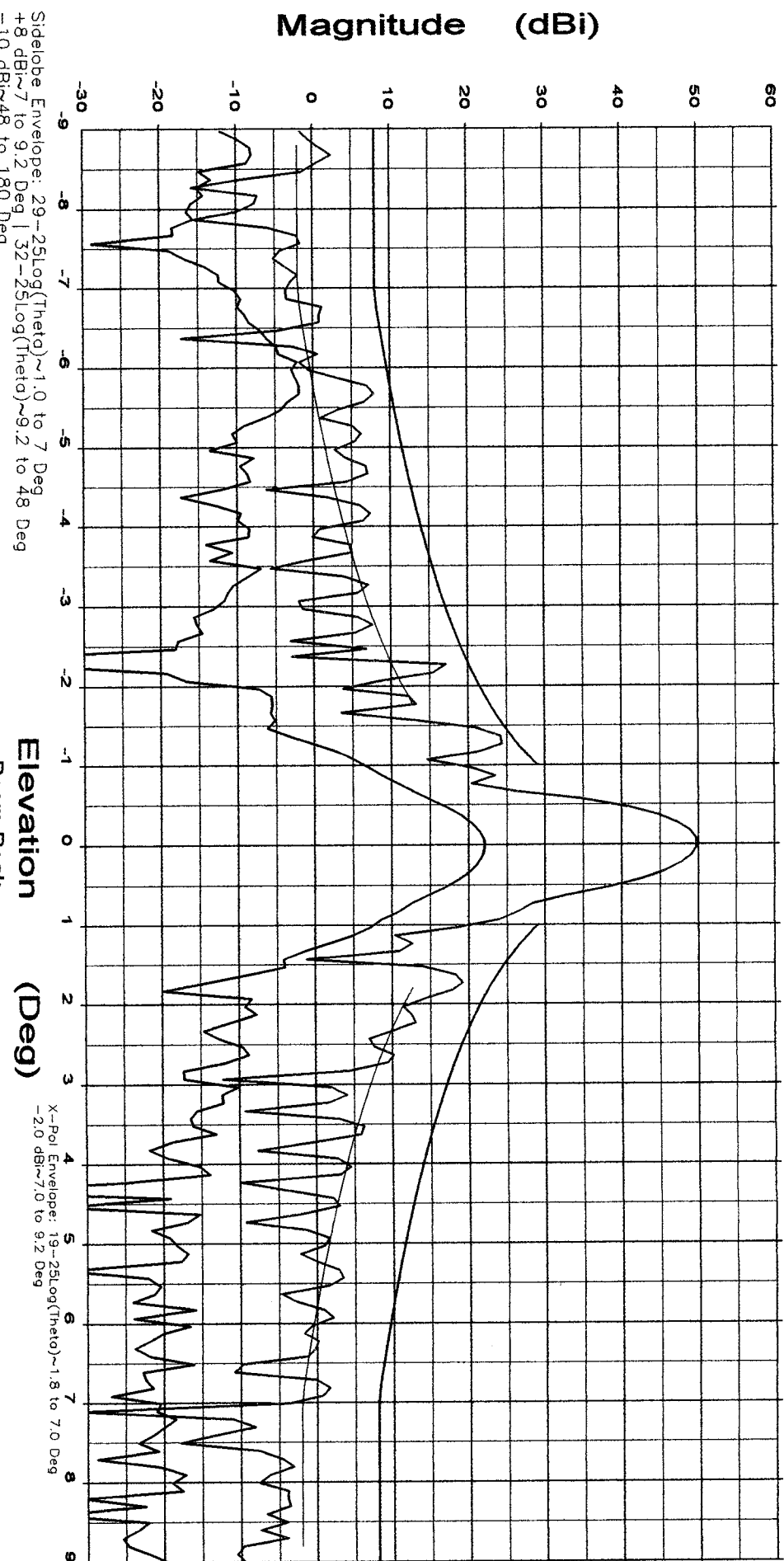
File: See Legend

Frequency : 19.950 GHz

PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



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  
 112540.dat-ant\_under\_test —  
 112542.dat-ant\_under\_test - - -

Cal. file units  
 112540.dat dBi  
 112542.dat dBi

Elevation Beam Peak  
 Deg dB  
 -0.01 49.78  
 0.02 22.07

X-Pol Envelope: 19-25Log(Theta)~1.8 to 7.0 Deg  
 -2.0 dBi~7.0 to 9.2 Deg

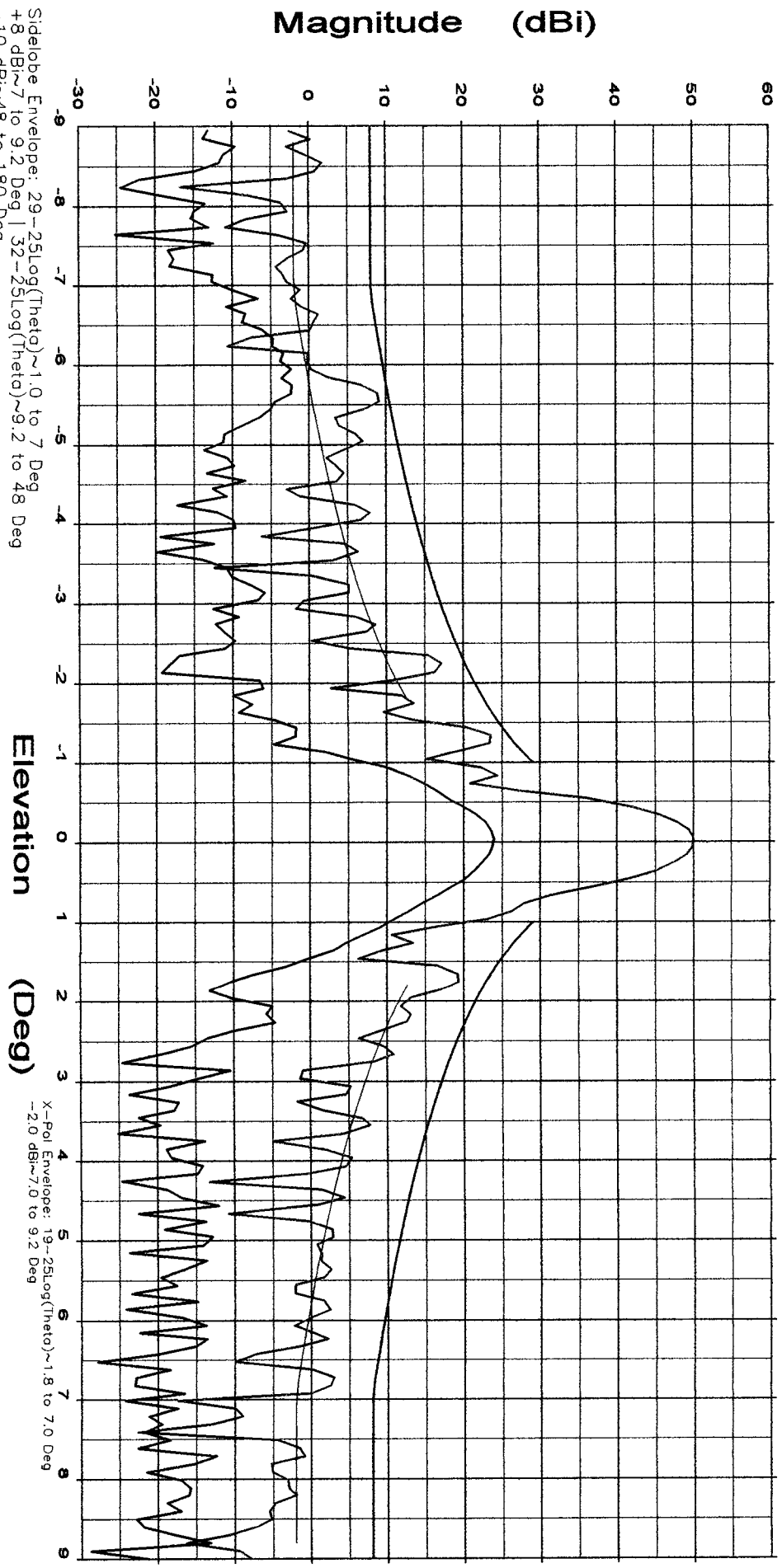
File: See Legend

Frequency : 20.200 GHz

PRODELIN  
1.8.8 f/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



Overlays  
 112540.dat-ant\_under\_test — Cal. file  
 112540.dat — 112540.dat  
 112542.dat-ant\_under\_test — 112542.dat

Elevation Beam Peak  
 Deg dB  
 -0.00 49.98  
 -0.00 23.85

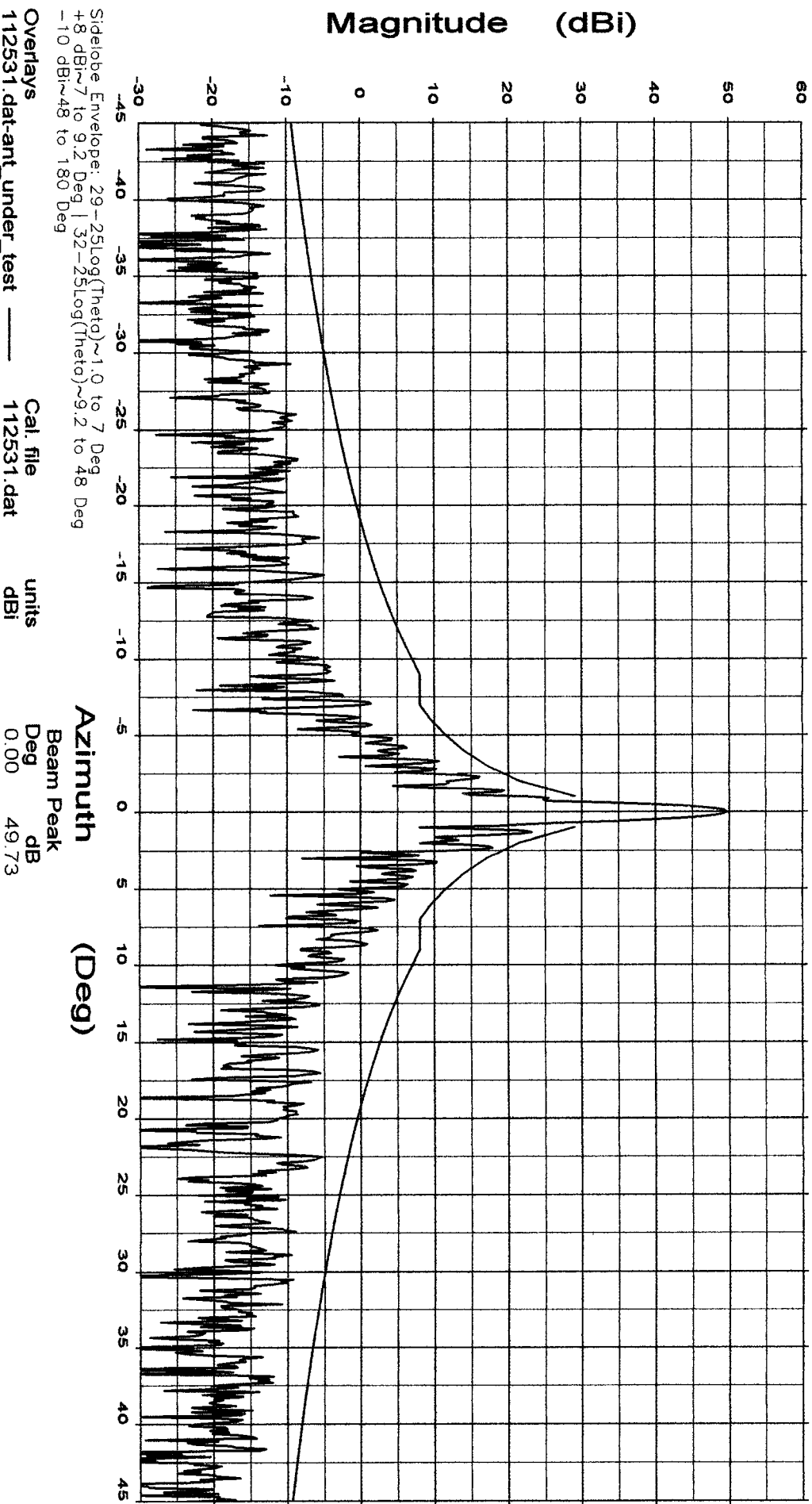
File: See Legend

Frequency : 19.700 GHz

PRODELIN  
1.8.8 f/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

TX pol: RHCP      Rx pol: RHCP



Overlays  
112531.dat ant\_under\_test ——— Cal. file 112531.dat

units dBi      Beam Peak dB  
Deg      0.00      49.73

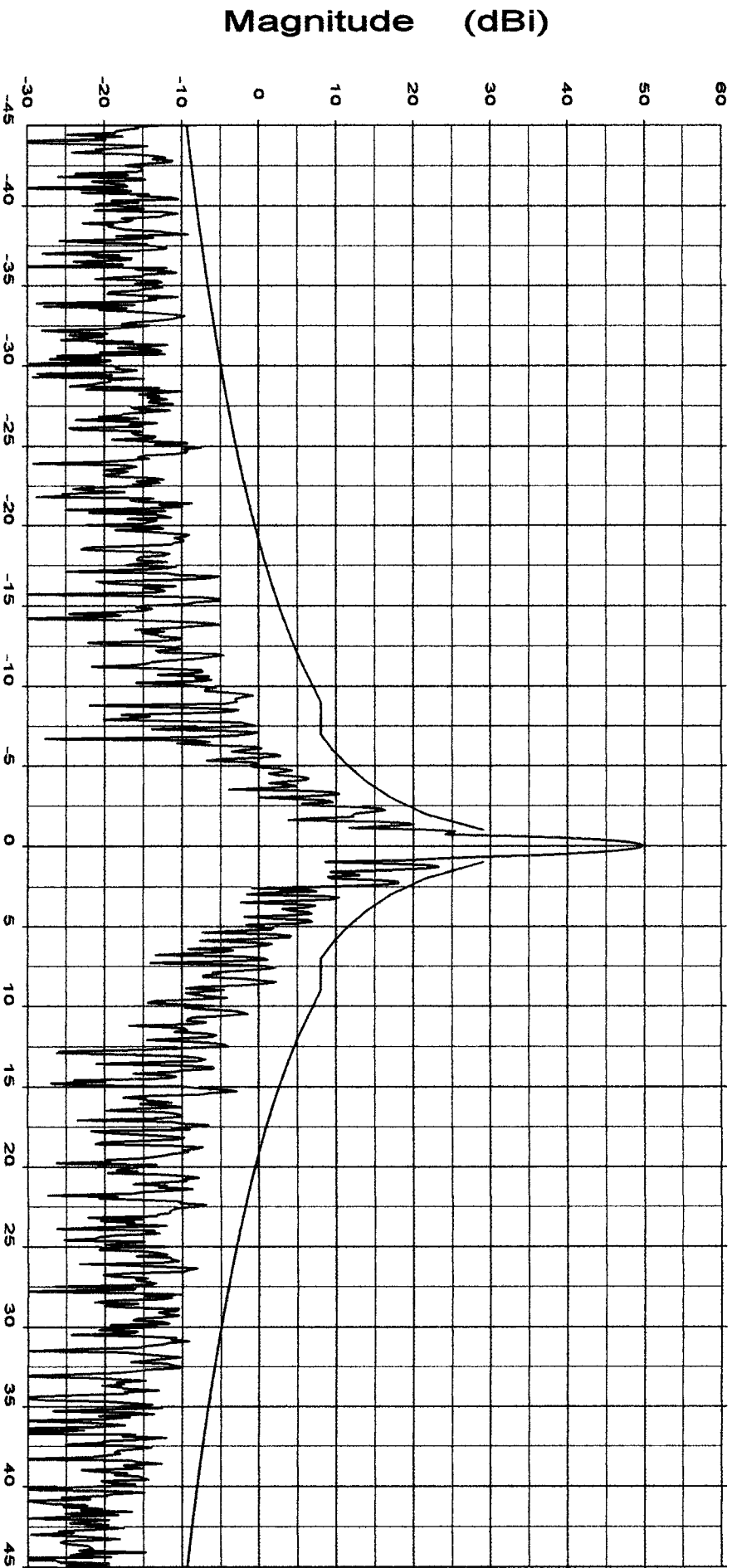
File: See Legend

Frequency : 19.950 GHz

PRODELIN  
1.8.8 f/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



Sidelobe Envelope:  $29 - 25 \log(\theta)$  to  $1.0$  to  $7$  Deg  
 $+8$  dBi to  $9.2$  Deg |  $32 - 25 \log(\theta)$  to  $9.2$  to  $48$  Deg  
 $-10$  dBi to  $180$  Deg

Overlays  
112531.dat ant\_under\_test — Cal file 112531.dat units dBi Beam Peak Deg dB  
-0.03 49.85



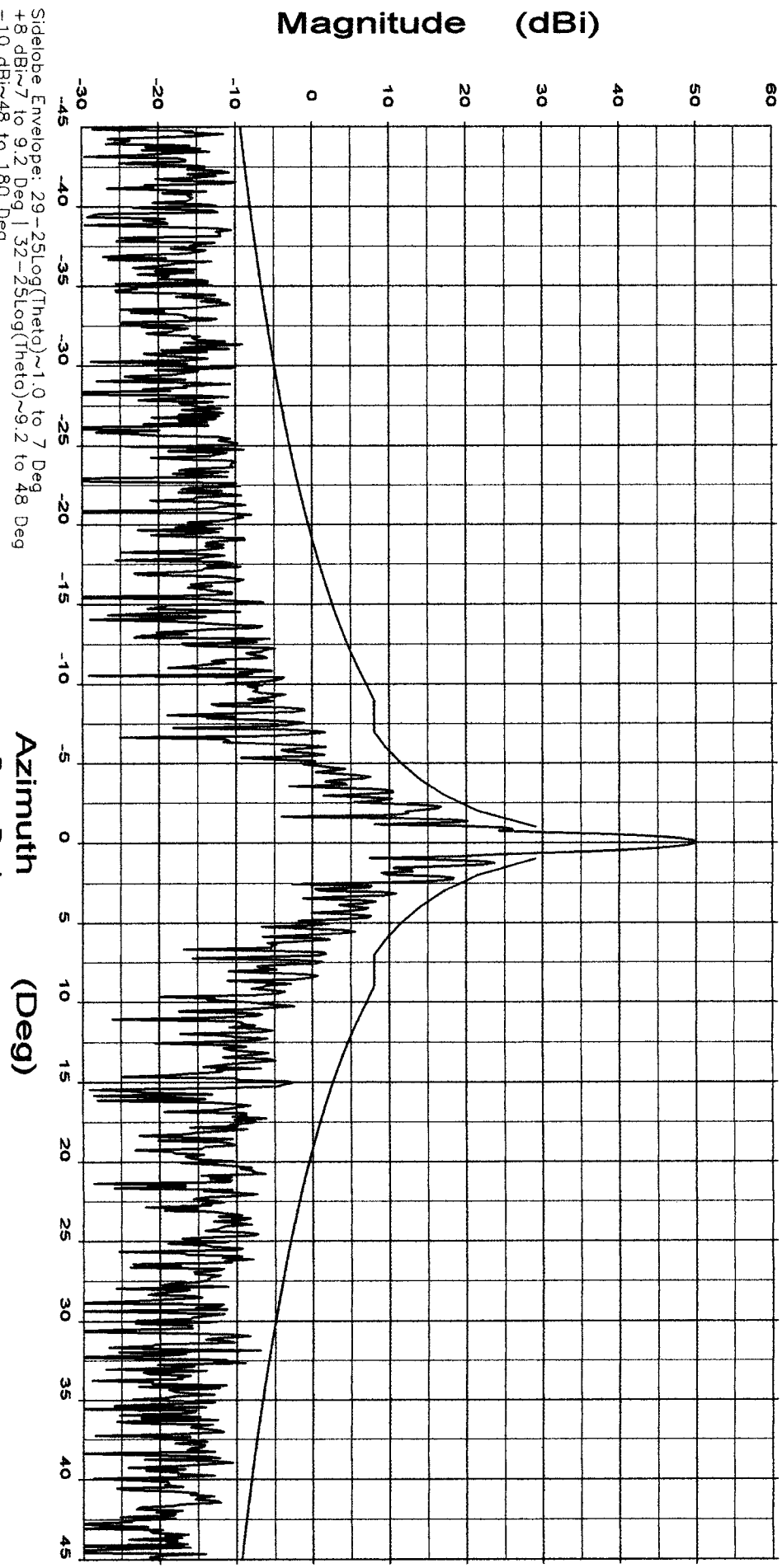
File: See Legend

PRODELIN  
1.8 .8 t/d  
Ka-Band Antenna System  
THRU PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP

Frequency : 20.200 GHz



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

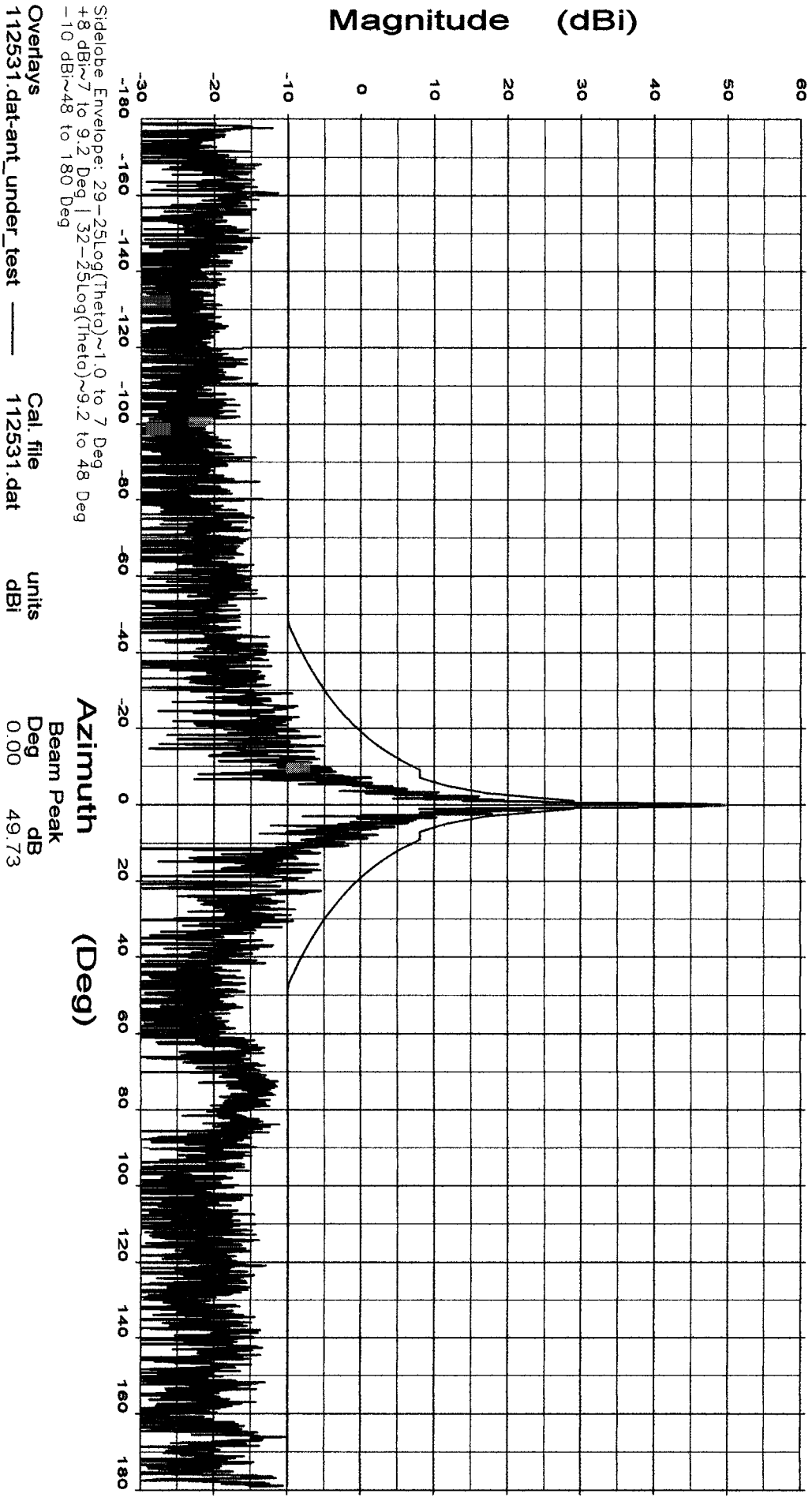
Overlays  
112531.dat-ant\_under\_test ——— Cal. file 112531.dat units dB  
Azimuth Beam Peak  
Deg dB  
-0.06 50.05

File: See Legend

Frequency : 19.700 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
THRU PORT  
TX pol: RHCP Rx pol: RHCP



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  
112531.dat-ant\_under\_test

Cal. file  
112531.dat

units  
dBi

Azimuth Beam Peak  
Deg dB  
0.00 49.73

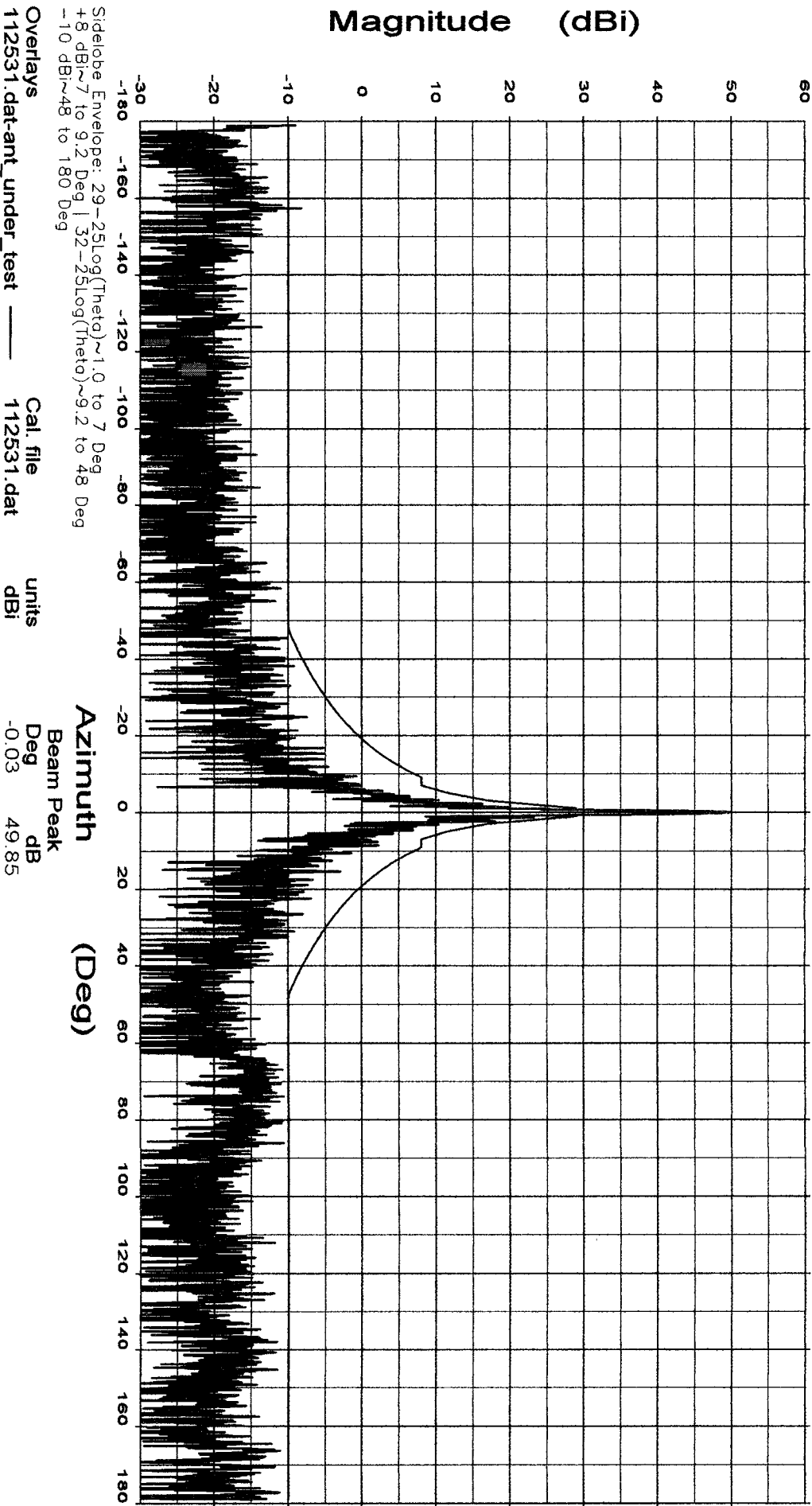
File: See Legend

Frequency : 19.950 GHz

PRODELIN  
1.8.8 f/d  
Ka-Band Antenna System  
THRUPORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



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

File: See Legend

PRODELIN

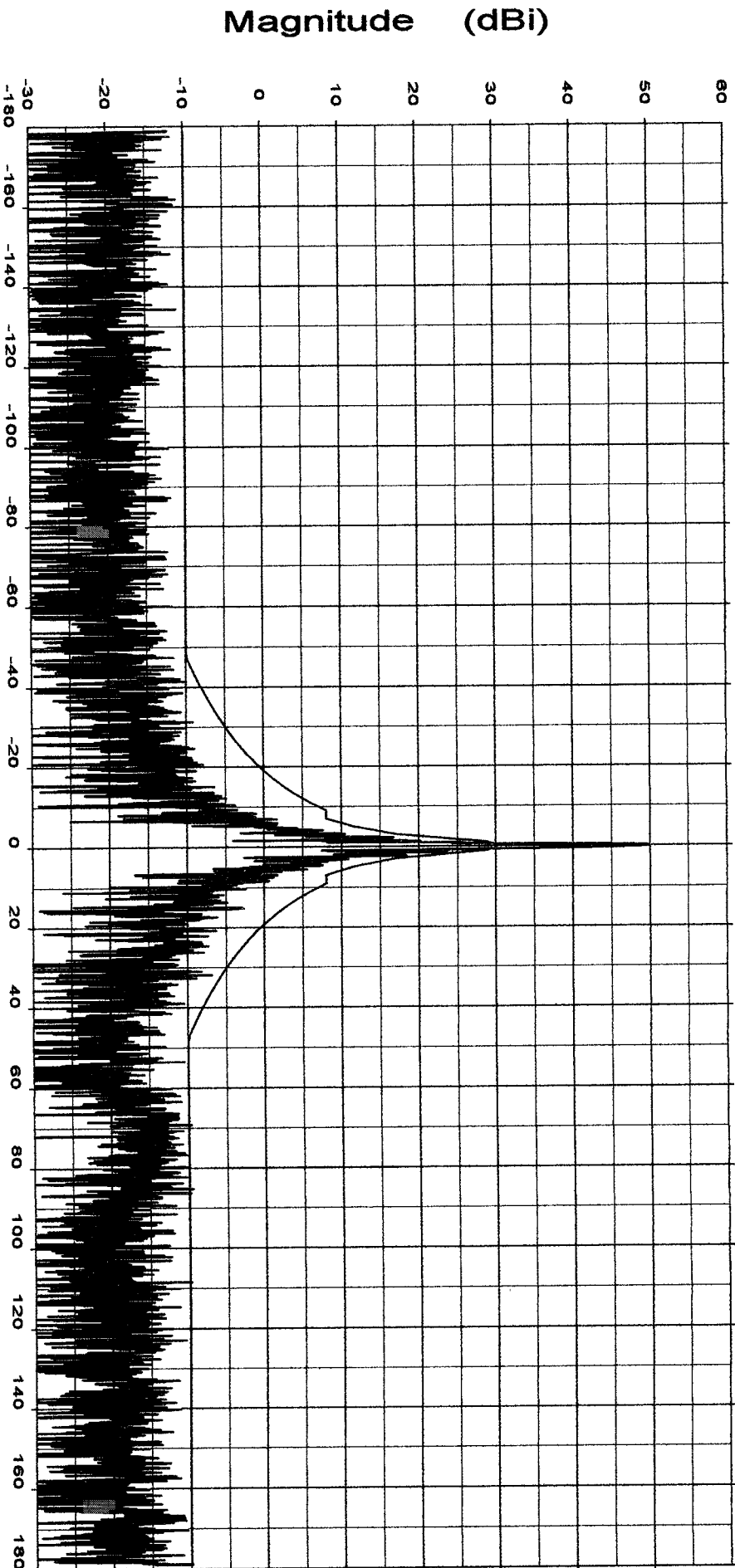
1.8 .8 f/d

Ka-Band Antenna System  
THRUF PORT

Frequency : 20.200 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



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  
112531.dat-ant\_under\_test

Cal file  
112531.dat

units  
dBi

Azimuth (Deg)  
Beam Peak  
Deg dB  
-0.06 50.05

# Section VIII

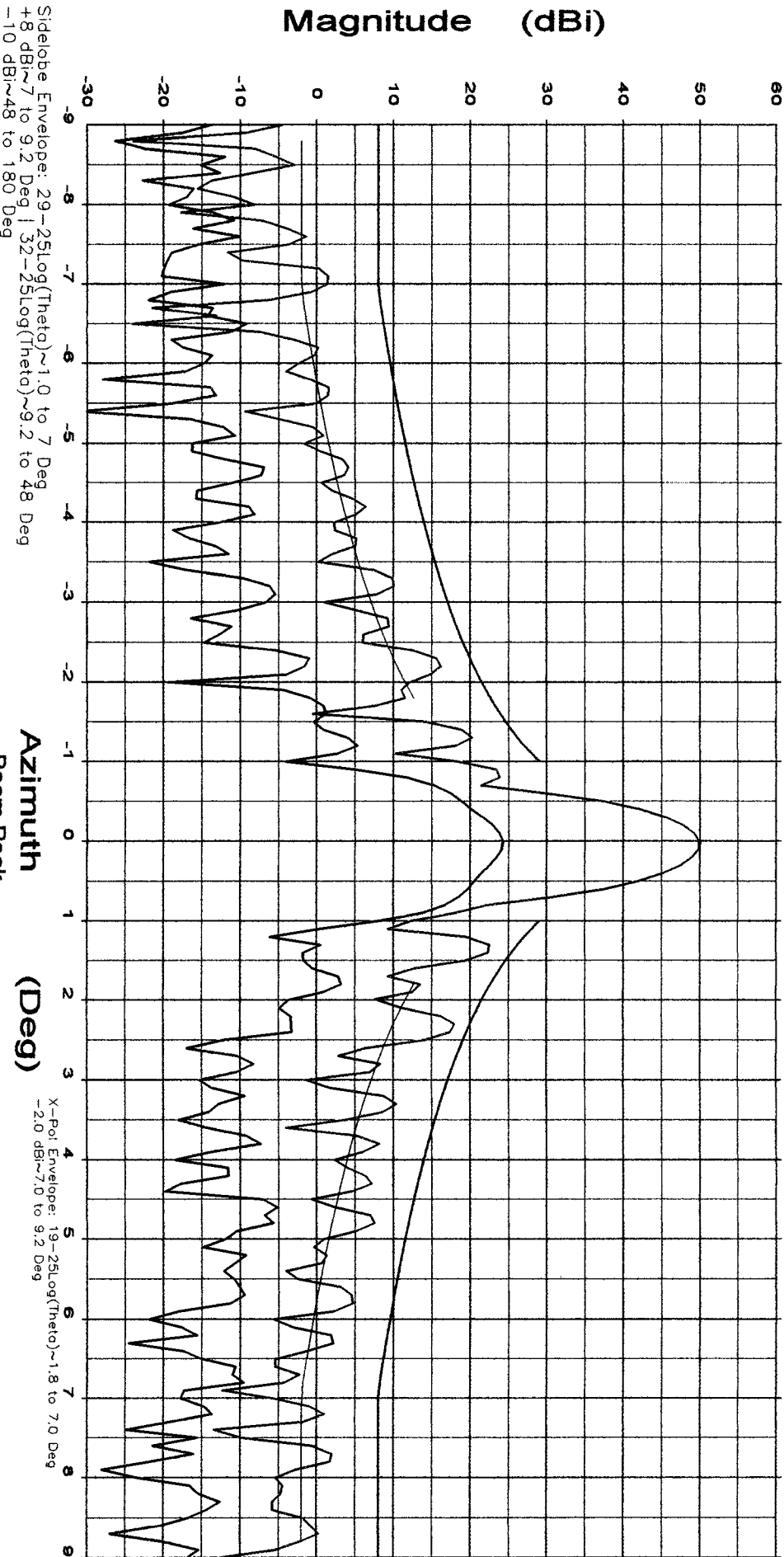
File: See Legend

Frequency : 19.700 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP

**PRODELIN**  
1.8 .8 f/d  
Ka-Band Antenna System  
SIDE PORT



Overlays  
112552.dat-ant\_under\_test ———  
112554.dat-ant\_under\_test ———

Cal. file	units	Azimuth	Beam Peak
	dB	Deg	dB
112552.dat	dB	0.00	49.88
112554.dat	dB	0.00	24.28

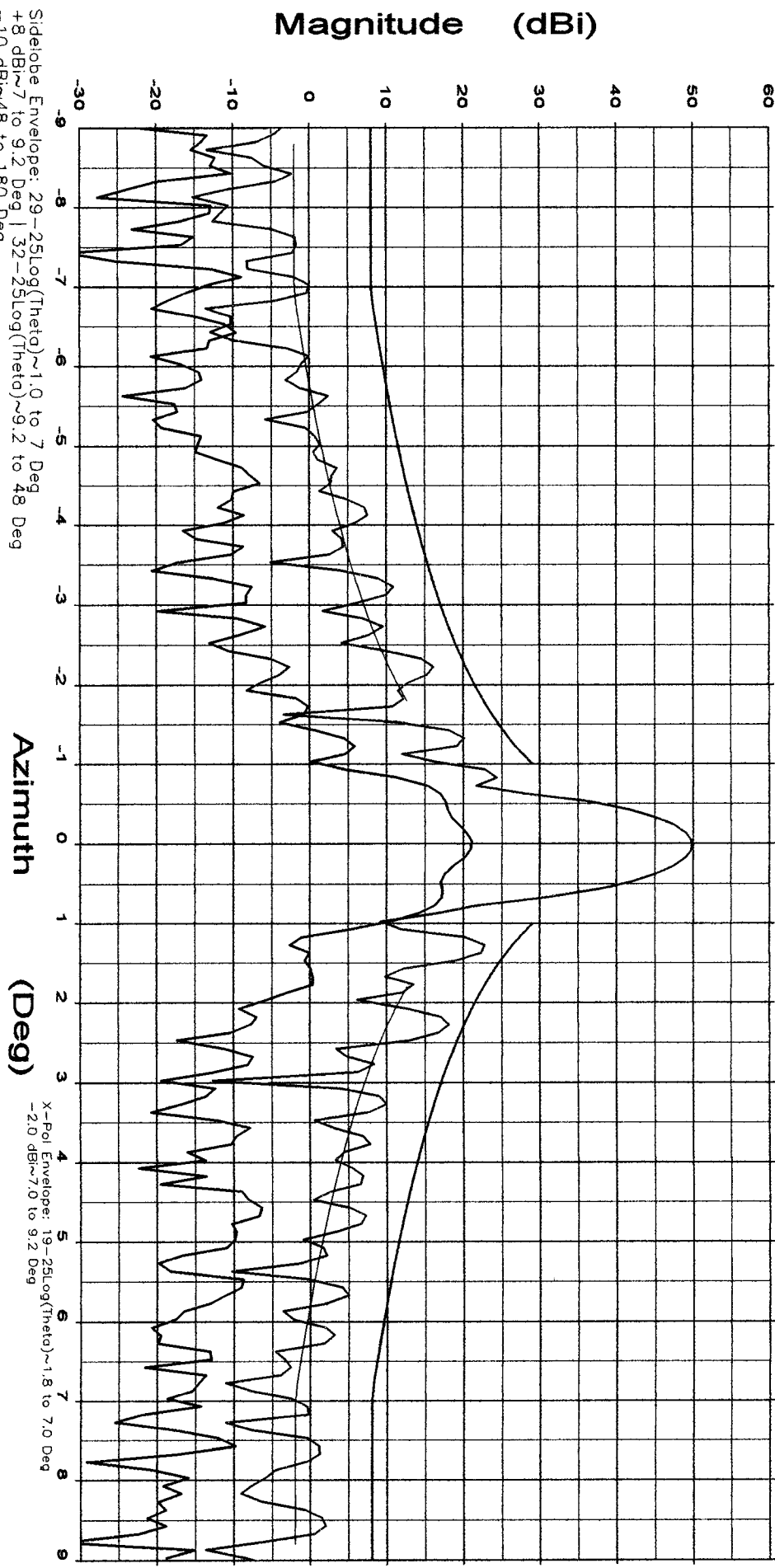
File: See Legend

Frequency : 19.950 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP

PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
SIDE PORT



Overlays

Cal. file	units	Beam Peak
112552.dat	dBi	49.80
112554.dat	dBi	21.08

File: See Legend

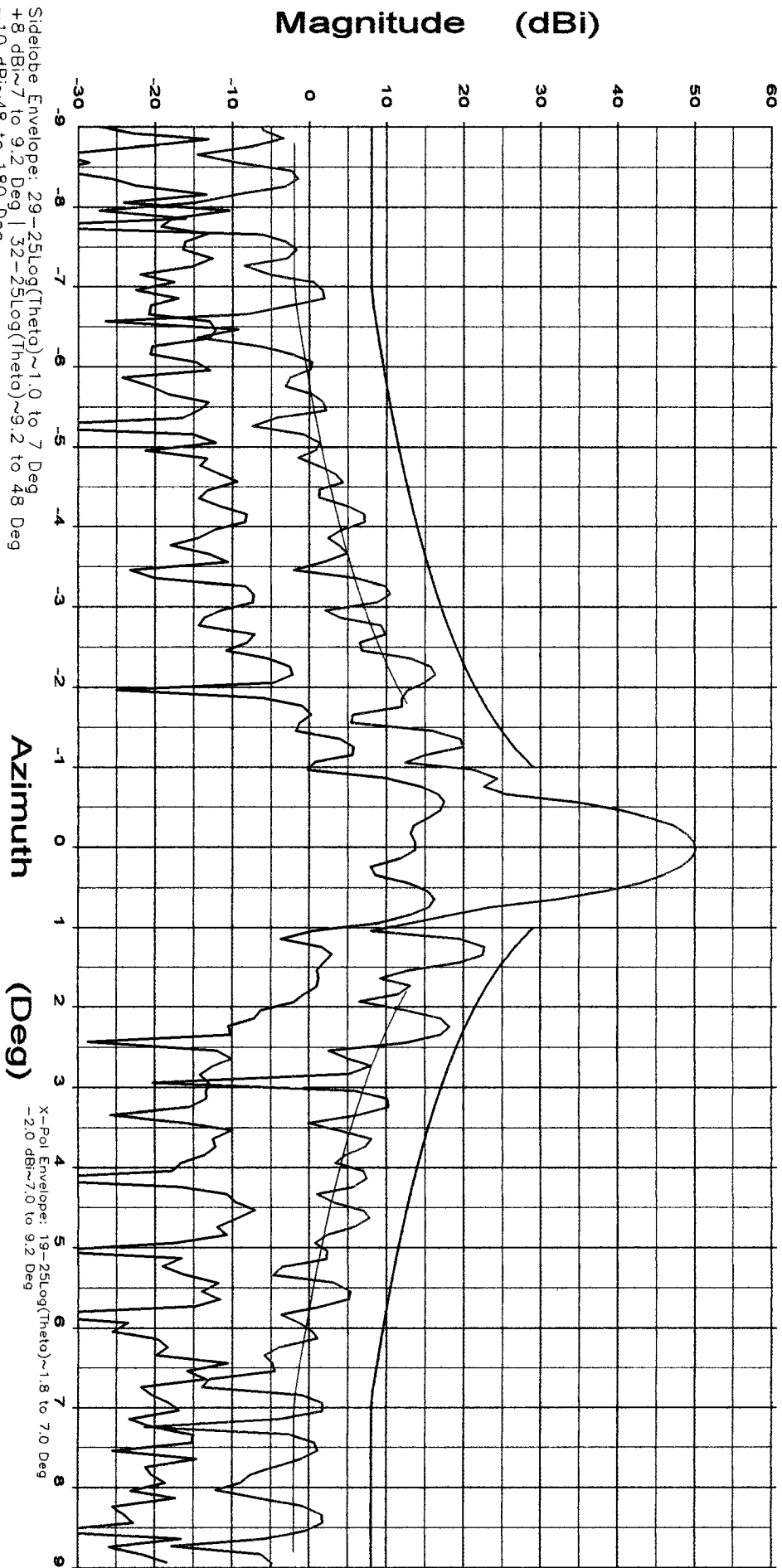
PRODELIN

Frequency : 20.200 GHz

1.8 .8 f/d  
Ka-Band Antenna System  
SIDE PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



Overlays

112552.dat-ant_under_test	—	Cal. file	112552.dat	units	dB
112554.dat-ant_under_test	—		112554.dat		dB

<b>Azimuth</b>		<b>Beam Peak</b>
Deg		dB
0.01		50.04
-0.54		17.35

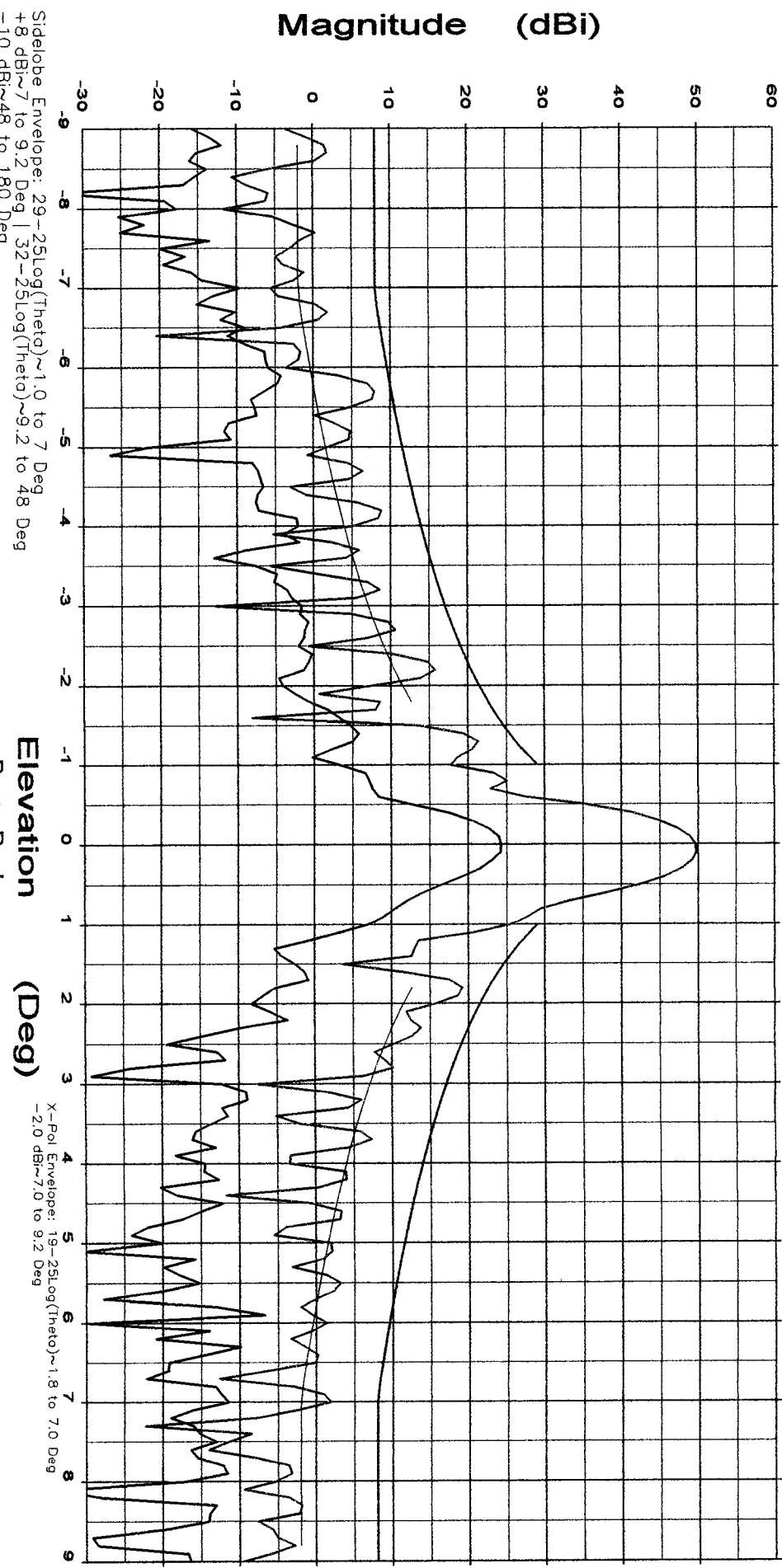


File: See Legend

Frequency : 19.700 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

PRODELIN  
1.8 .8 t/d  
Ka-Band Antenna System  
SIDE PORT  
Tx pol: LHCP Rx pol: LHCP



Overlays  
 112553.dat-ant\_under\_test —  
 112555.dat-ant\_under\_test —

Cal. file  
 112553.dat  
 112555.dat

units  
 dBi  
 dBi

Elevation  
 Beam Peak  
 Deg  
 0.06  
 0.02

dB  
 49.76  
 24.26

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: 19-25Log(Theta)~1.8 to 7.0 Deg  
 -2.0 dBi~7.0 to 9.2 Deg

File: See Legend

PRODELIN

1.8 .8 f/d

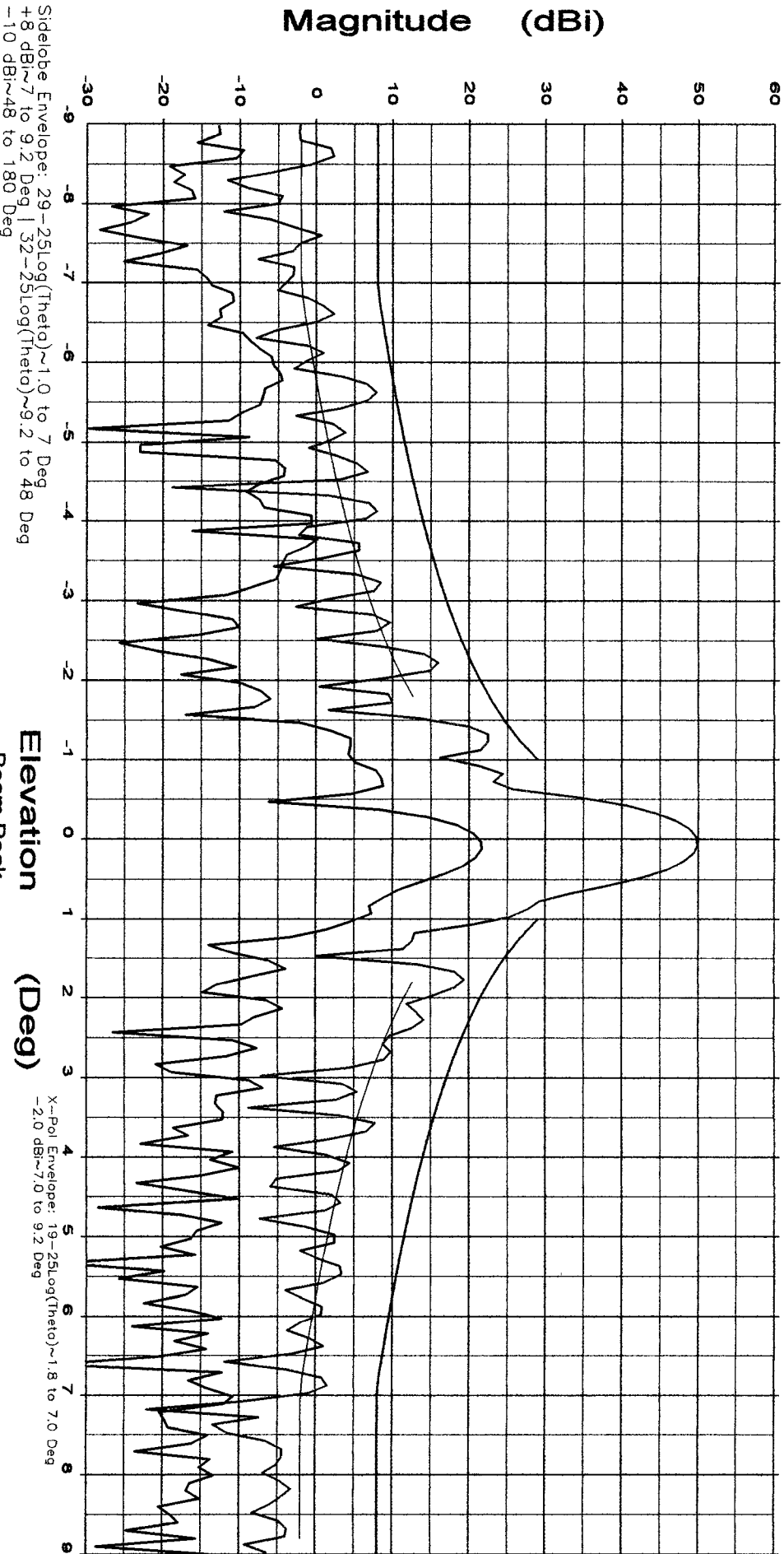
Ka-Band Antenna System  
SIDE PORT

Frequency : 19.950 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP

Rx pol: LHCP



Overlays  
112553.dat-ant\_under\_test —  
112555.dat-ant\_under\_test —

Cal file  
112553.dat  
112555.dat

units  
dBi  
dBi

Elevation		Beam Peak	
Deg	dB	Deg	dB
0.05	49.87	0.09	21.63

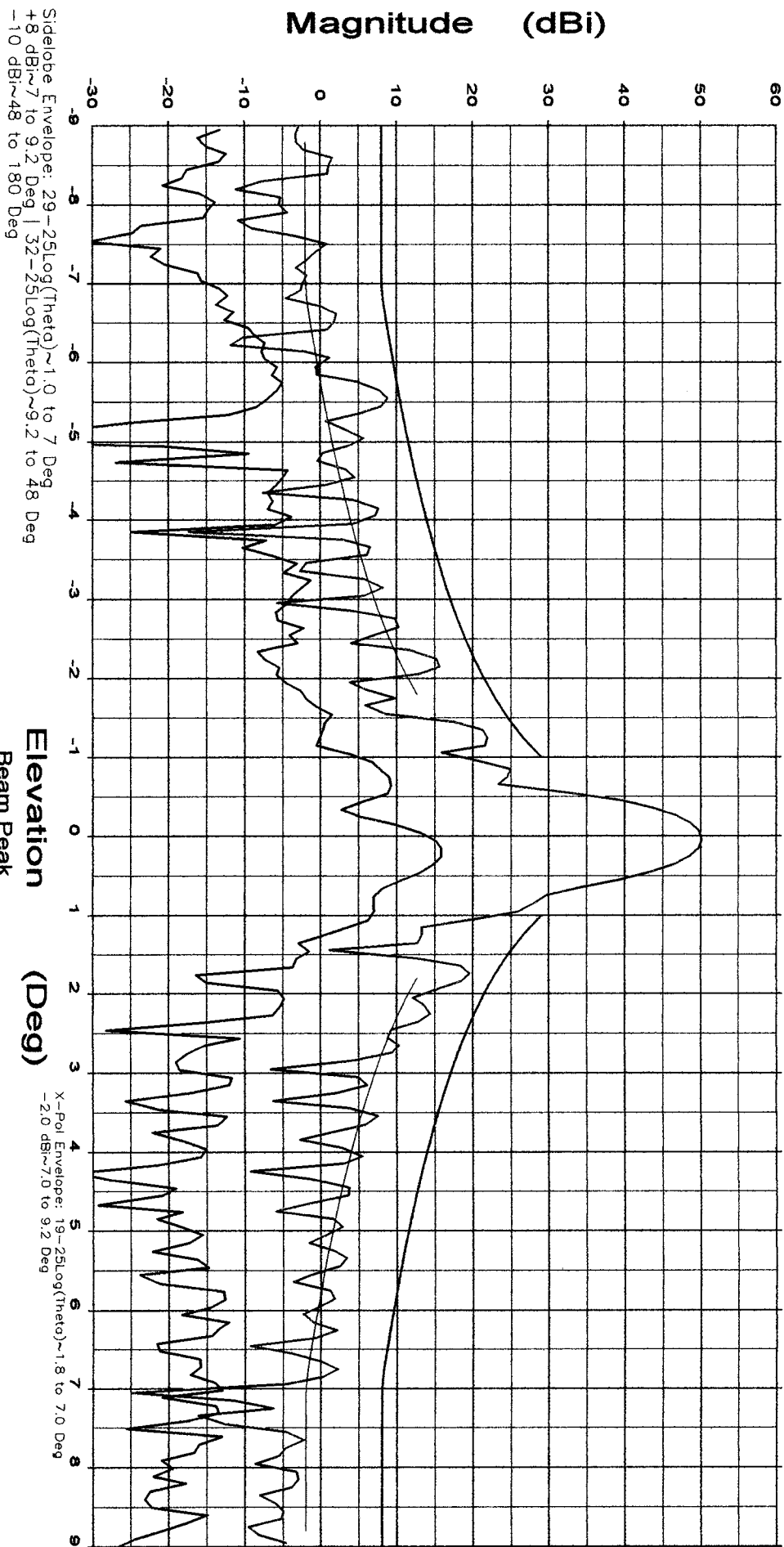
File: See Legend

Frequency : 20.200 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP      Rx pol: LHCP

**PRODELIN**  
1.8 .8 f/d  
Ka-Band Antenna System  
SIDE PORT



Overlays

112553.dat-ant_under_test	—	Cal. file	112553.dat	units	dB
112555.dat-ant_under_test	—	112555.dat		dB	

**Elevation**

Beam Peak	Deg	dB
	0.04	50.13
	0.21	15.84

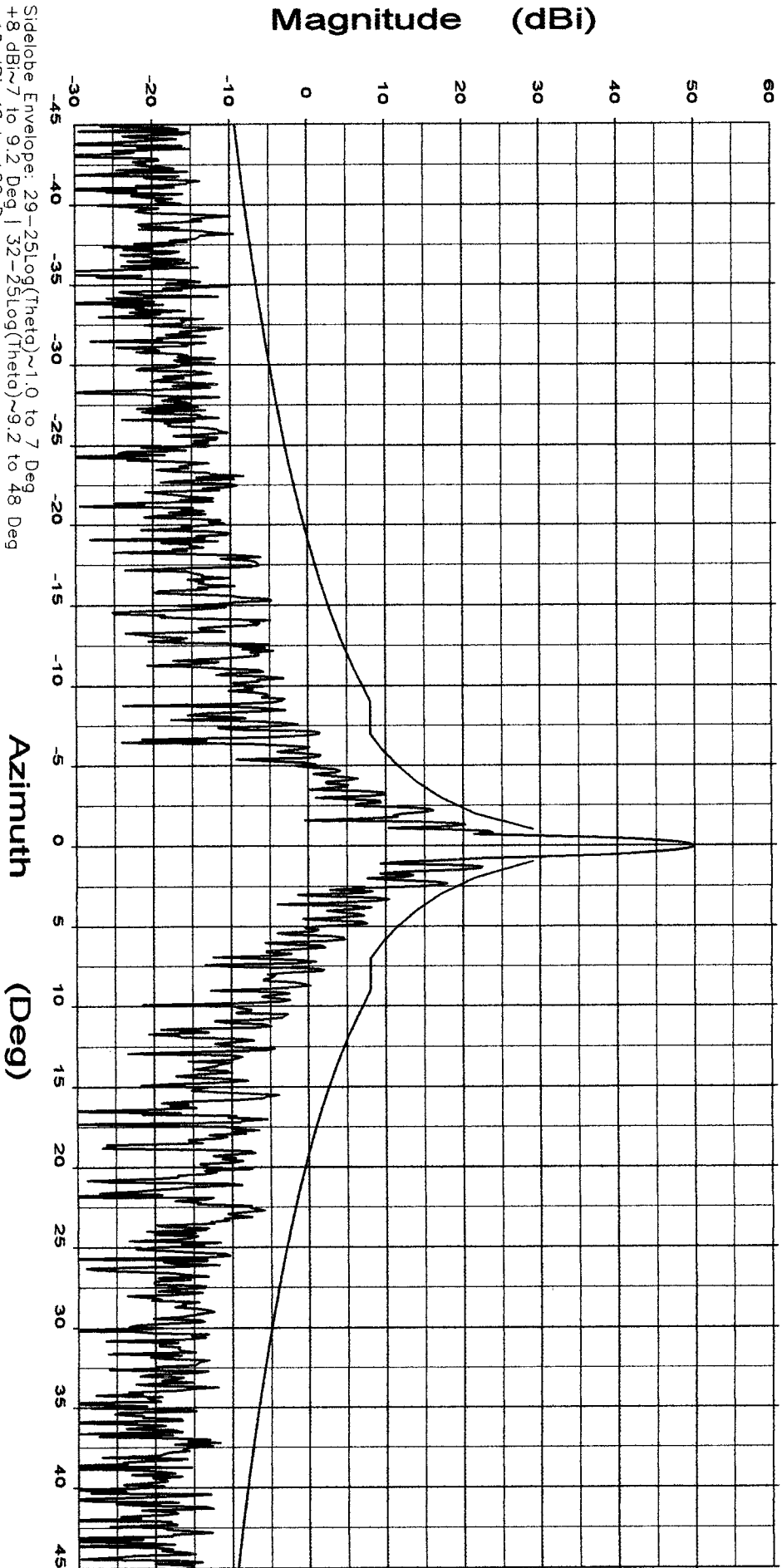
File: See Legend

Frequency : 19.700 GHz

PRODELIN  
1.8.8 f/d  
Ka-Band Antenna System  
SIDE PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



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  
112552.dat-ant\_under\_test — Cal. file 112552.dat units dBi Beam Peak dB  
0.04 49.86

File: See Legend

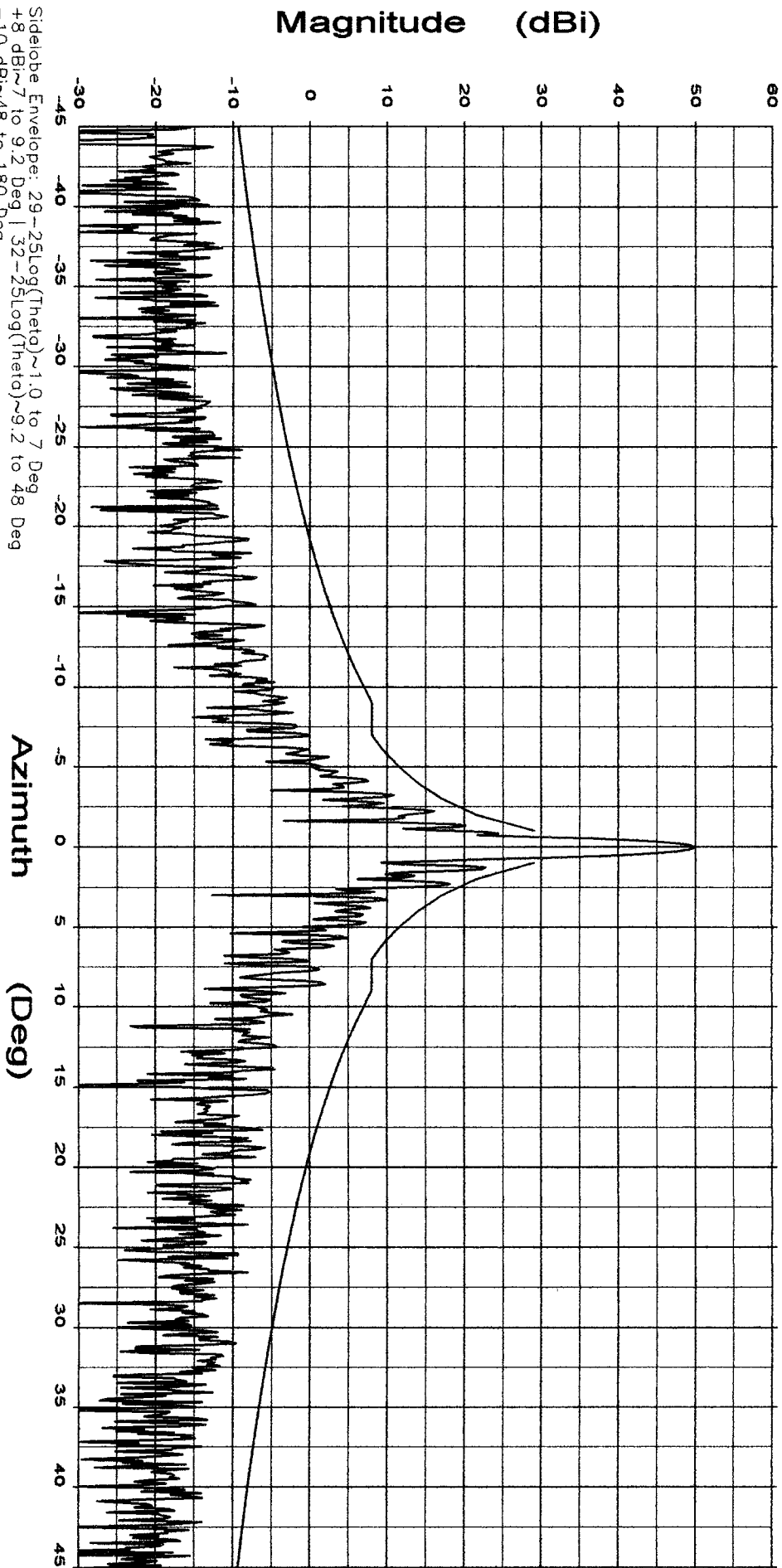
PRODELIN

Frequency : 19.950 GHz

1.8.8 f/d  
Ka-Band Antenna System  
SIDE PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP Rx pol: LHCP



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

Cal. file 112552.dat units dBi

Azimuth Beam Peak  
Deg dB  
0.07 49.81

Overlays  
112552.dat-ant\_under\_test

File: See Legend

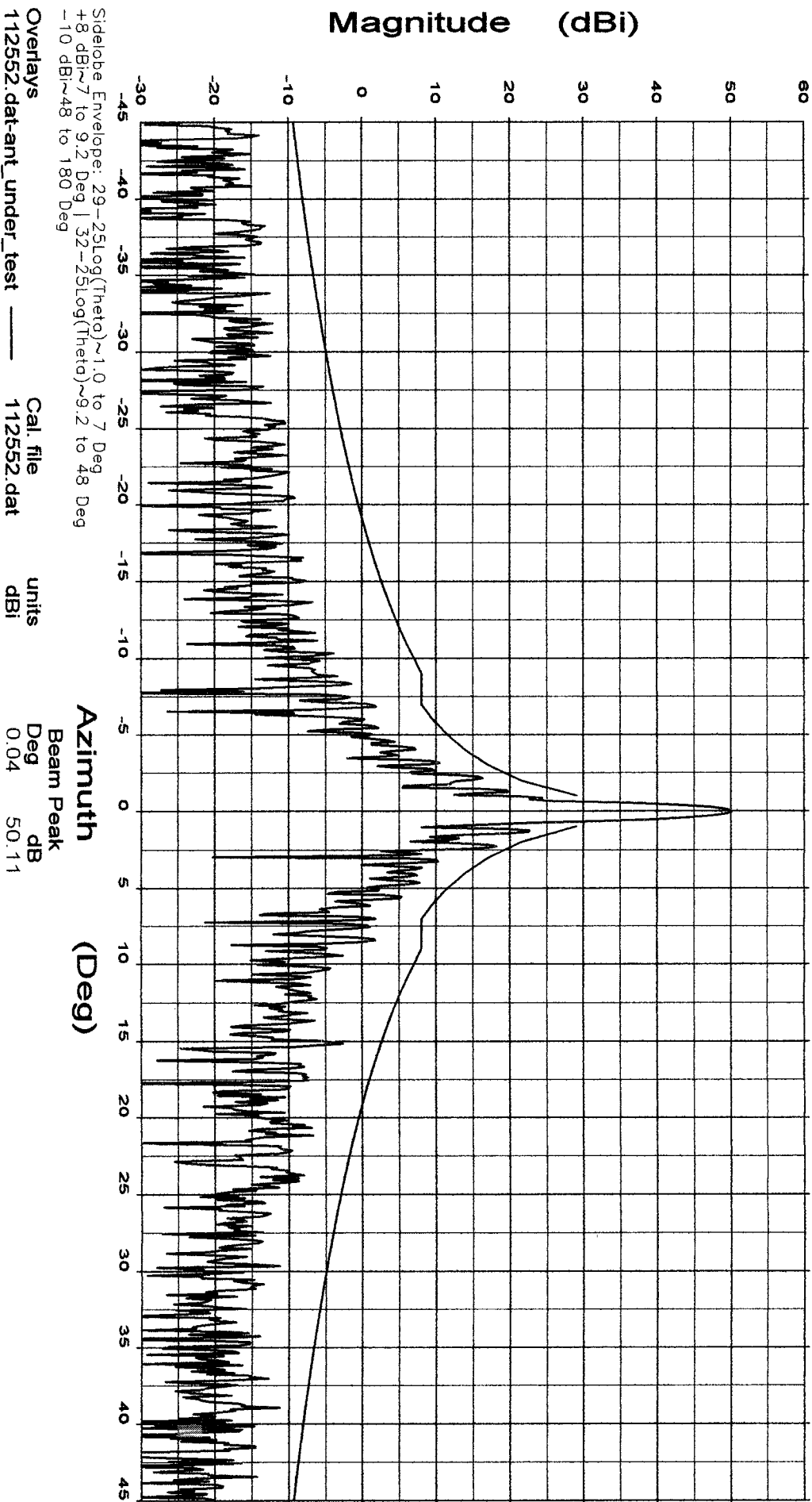
PRODELIN

Frequency : 20.200 GHz

1.8.8 f/d  
Ka-Band Antenna System  
SIDE PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: LHCP      Rx pol: LHCP



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  
112552.dat-ant\_under\_test

Cal. file  
112552.dat

units  
dBi

Beam Peak  
Deg      dB  
0.04    50.11

File: See Legend

PRODELIN

Frequency : 19.700 GHz

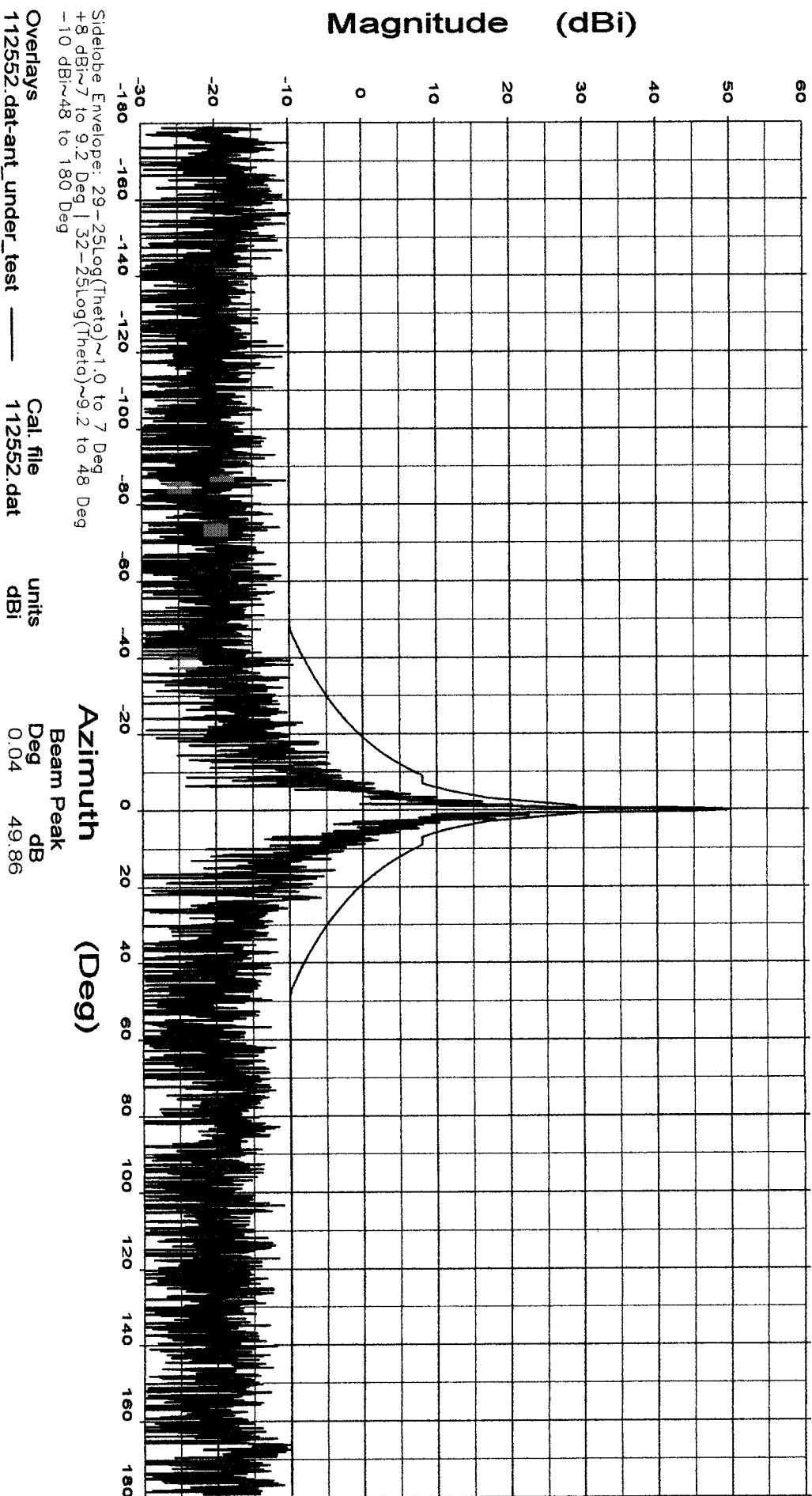
Operator: K. Poovey

1.8.8 f/d  
Ka-Band Antenna System

Ser. no.: 010903

Channel: ch1

Tx pol: LHCP Rx pol: LHCP



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  
112552.dat-ant\_under\_test

Cal file  
112552.dat

units  
dBi

Azimuth  
Beam Peak  
Deg dB  
0.04 49.86

File: See Legend

PRODELIN

Frequency : 19.950 GHZ

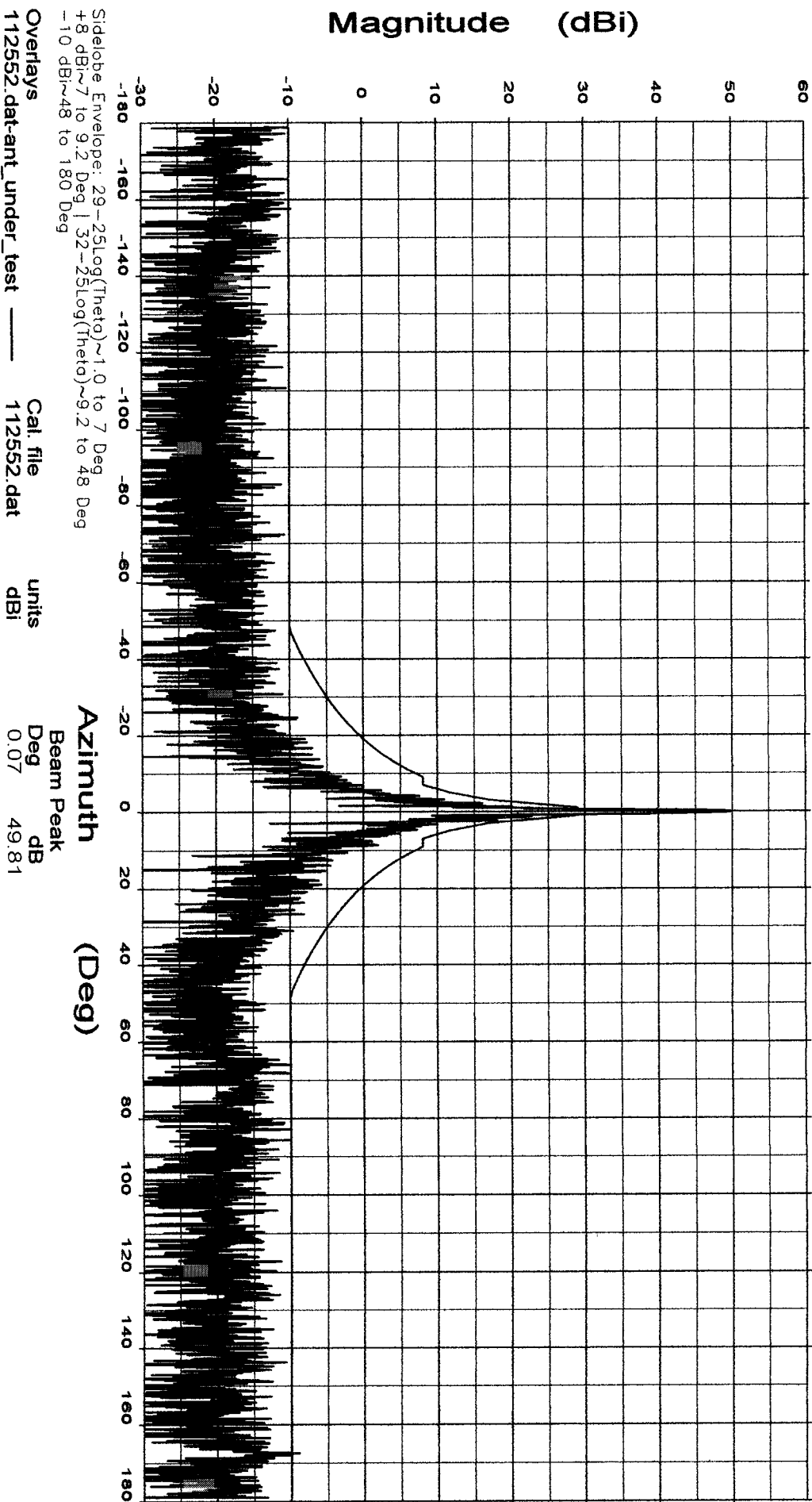
Operator: K. Poovey

1.8 .8 f/d  
Ka-Band Antenna System

Ser. no.: 010903

Channel: ch1

Tx pol: LHCP Rx pol: LHCP





File: See Legend

PRODELIN

1.8 .8 f/d

Ka-Band Antenna System  
SIDE PORT

Frequency : 20.200 GHz

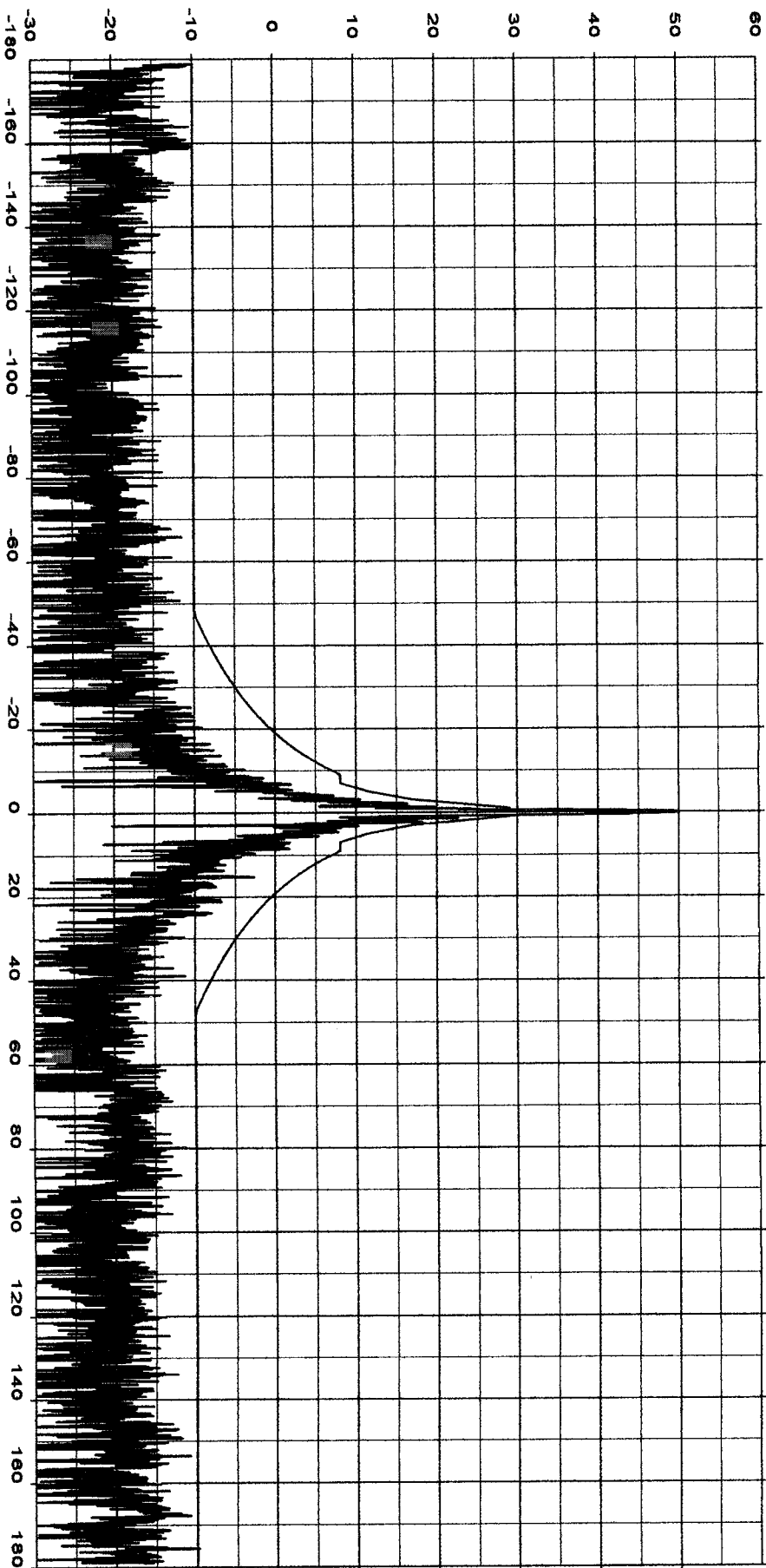
Operator: K. Poovey

Ser. no.: 010903

Tx pol: LHCP

Rx pol: LHCP

Magnitude (dBi)



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  
112552.dat-ant\_under\_test

Cal. file  
112552.dat

units  
dBi

Azimuth (Deg)  
Beam Peak  
Deg dB  
0.04 50.11

# Section IX

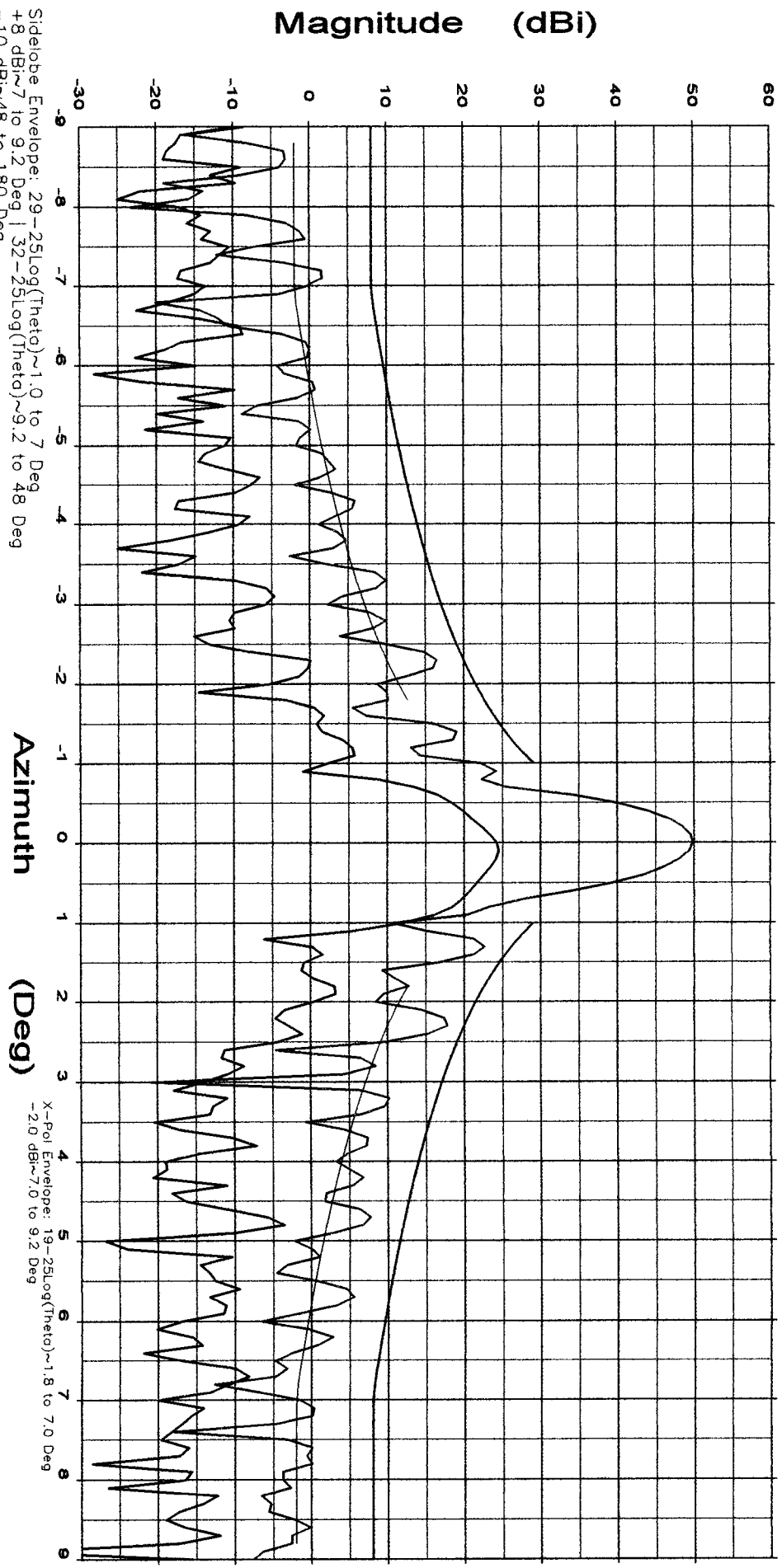
File: See Legend

Frequency : 19.700 GHz

PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
SIDE PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



Overlays

Cal. file	units	Beam Peak
112544.dat-ant_under_test	dBi	49.76
112549.dat-ant_under_test	dBi	24.43

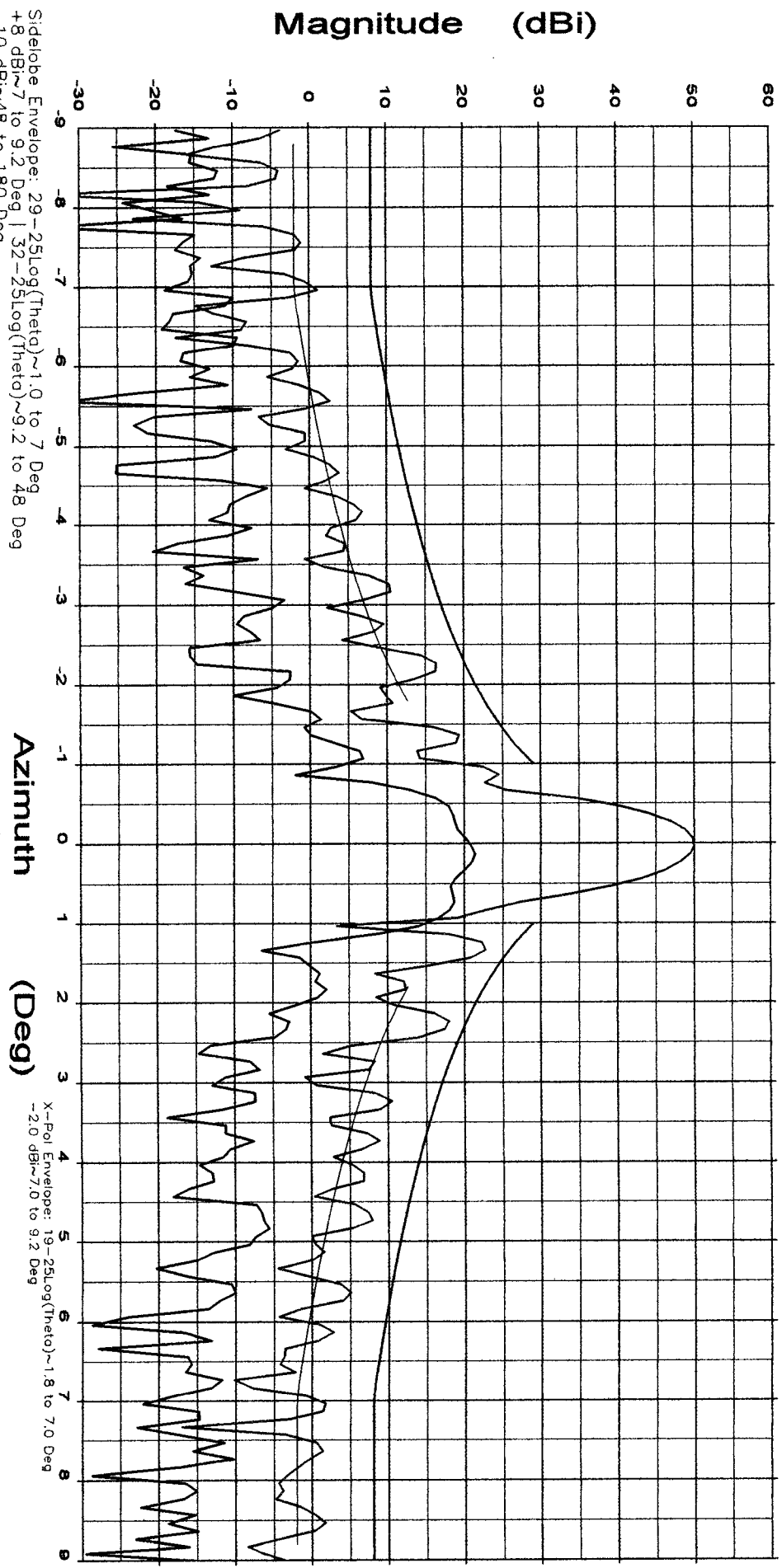
File: See Legend

Frequency : 19.950 GHz

PRODELIN  
1.8 .8 t/d  
Ka-Band Antenna System  
SIDE PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



Overlays

112544.dat-ant_under_test	—	Cal. file	112544.dat	units	dB
112549.dat-ant_under_test	—	112549.dat		dB	

<b>Azimuth</b>	<b>Beam Peak</b>
Deg	Deg
0.01	49.93
0.06	21.07

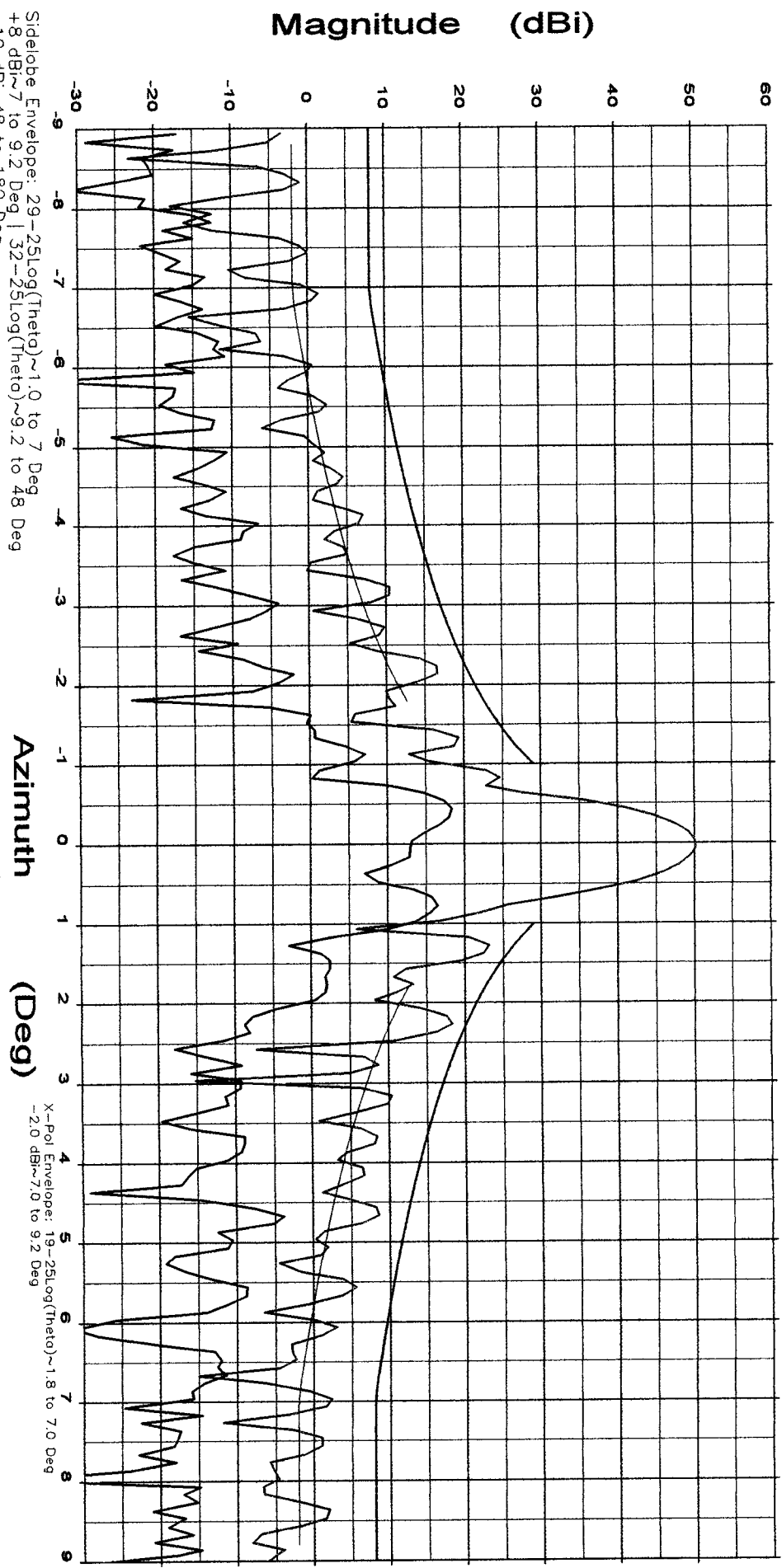
File: See Legend

Frequency : 20.200 GHz

PRODELIN  
1.8.8 f/d  
Ka-Band Antenna System  
SIDE PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



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  
 112544.dat\_ant\_under\_test ——— Cal. file  
 112544.dat 112544.dat units  
 112549.dat\_ant\_under\_test ——— 112549.dat dBi

Azimuth (Deg)

Beam Peak	Deg	dB
0.03	50.10	
-0.39	18.22	

X-Pol Envelope: 19--25Log(Theta)~1.8 to 7.0 Deg  
 -2.0 dBi~7.0 to 9.2 Deg

File: See Legend

PRODELLIN  
1.8.8 f/d  
Ka-Band Antenna System  
SIDE PORT

Frequency : 19.700 GHz

Operator: K. Poovey

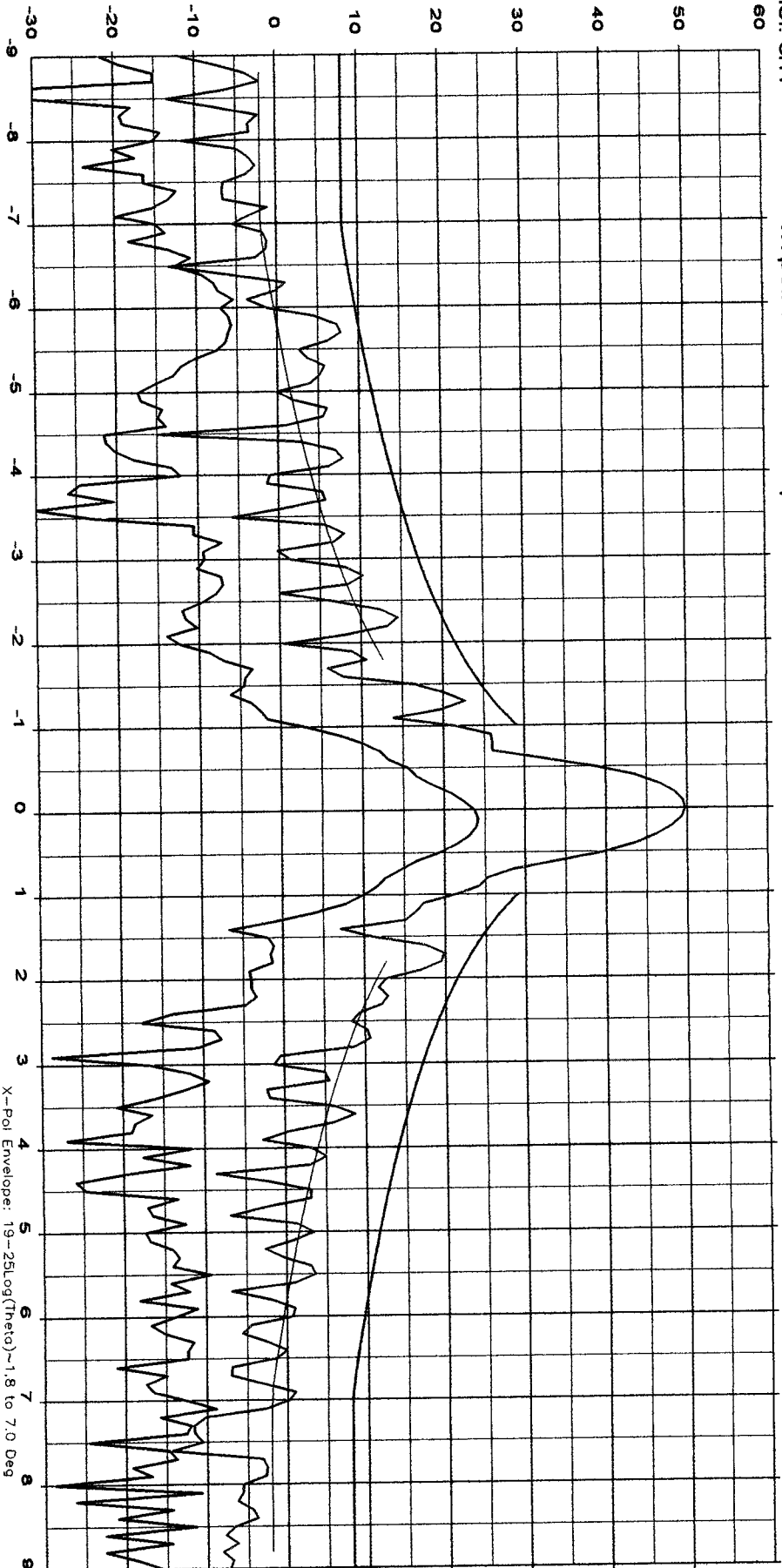
Ser. no.: 010903

Channel: ch1

TX pol: RHCP

Rx pol: RHCP

### Magnitude (dBi)



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  
112548.dat-ant\_under\_test ———  
112550.dat-ant\_under\_test ———

Cal. file  
112548.dat  
112550.dat

units	Deg	dB
dBi	-0.01	49.72
dBi	0.12	24.13

Elevation (Deg)

X-Pol Envelope: 19-25Log(Theta)~1.8 to 7.0 Deg  
-2.0 dBi~7.0 to 9.2 Deg

File: See Legend

Operator: K. Poovey

Ser. no.: 010903

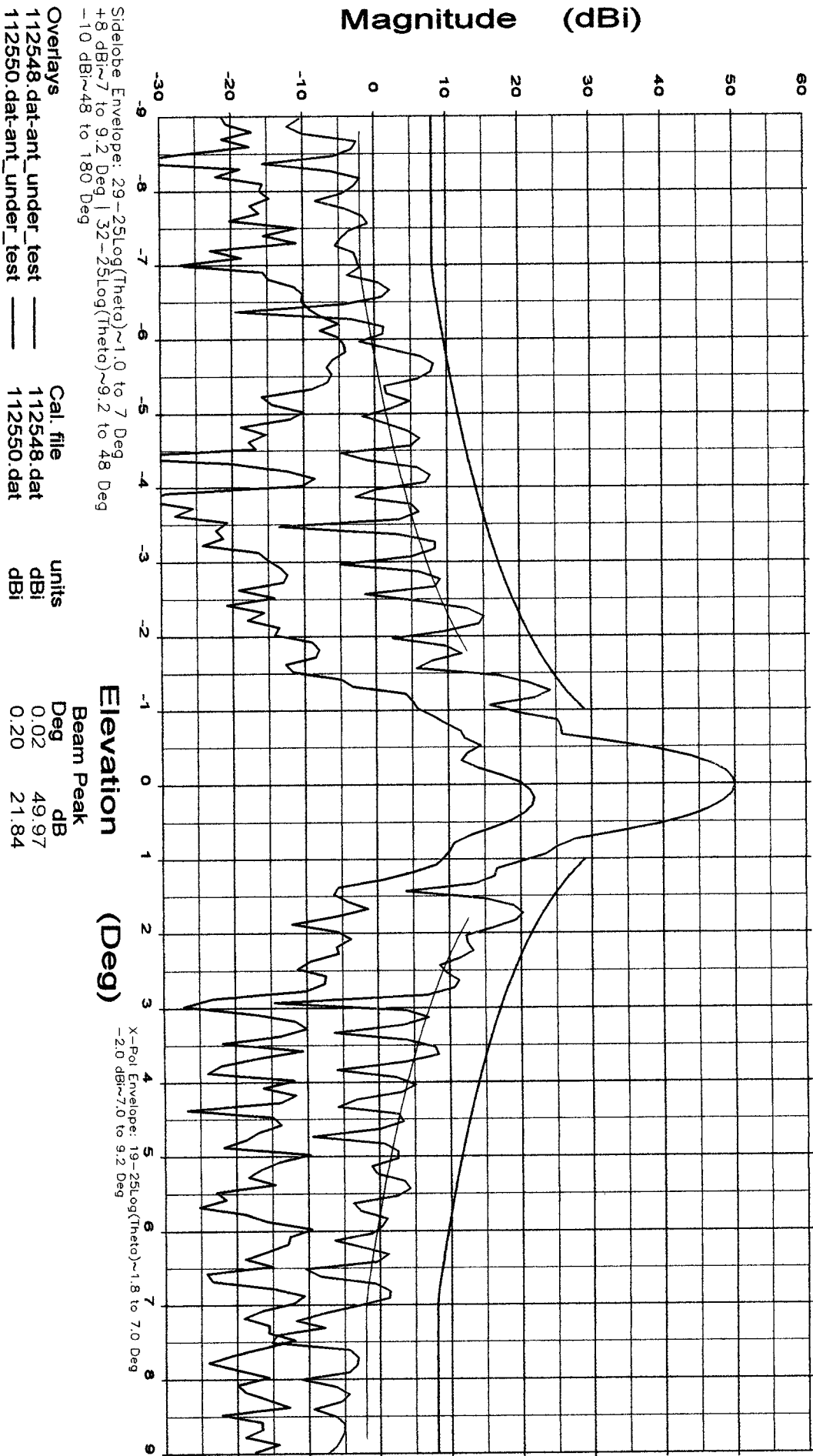
Tx pol: RHCP

Rx pol: RHCP

PRODELIN

1.8 .8 f/d  
Ka-Band Antenna System  
SIDE PORT

Frequency : 19.950 GHz



File: See Legend

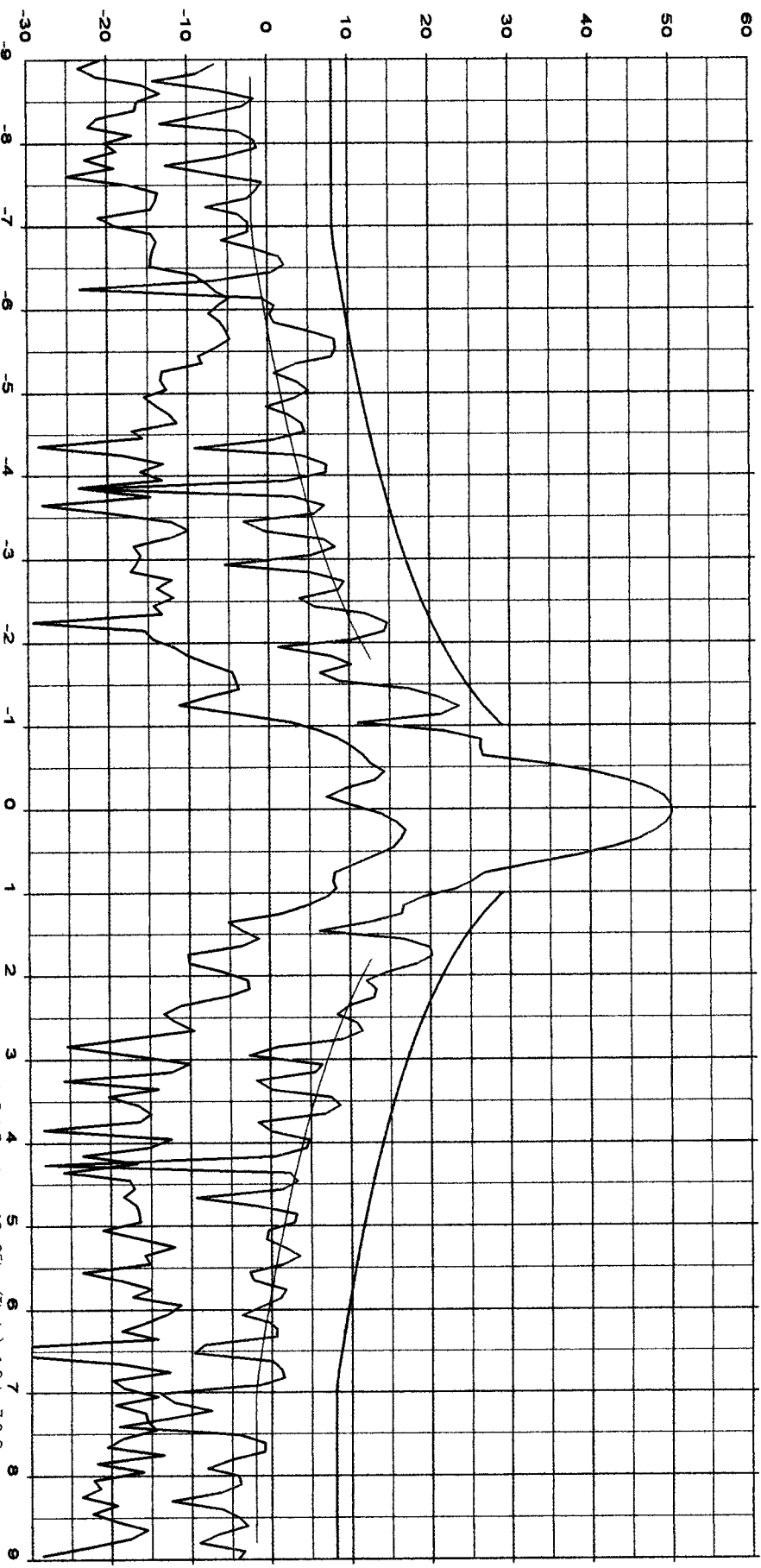
PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
SIDE PORT

Frequency : 20.200 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP

### Magnitude (dBi)



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

### Elevation (Deg)

Overlays	Cal. file	units	Beam Peak
112548.dat_ant_under_test	112548.dat	dB	50.12
112550.dat_ant_under_test	112550.dat	dB	16.75

X-Pol Envelope: 19-25Log(Theta)~1.8 to 7.0 Deg  
-2.0 dBi~7.0 to 9.2 Deg

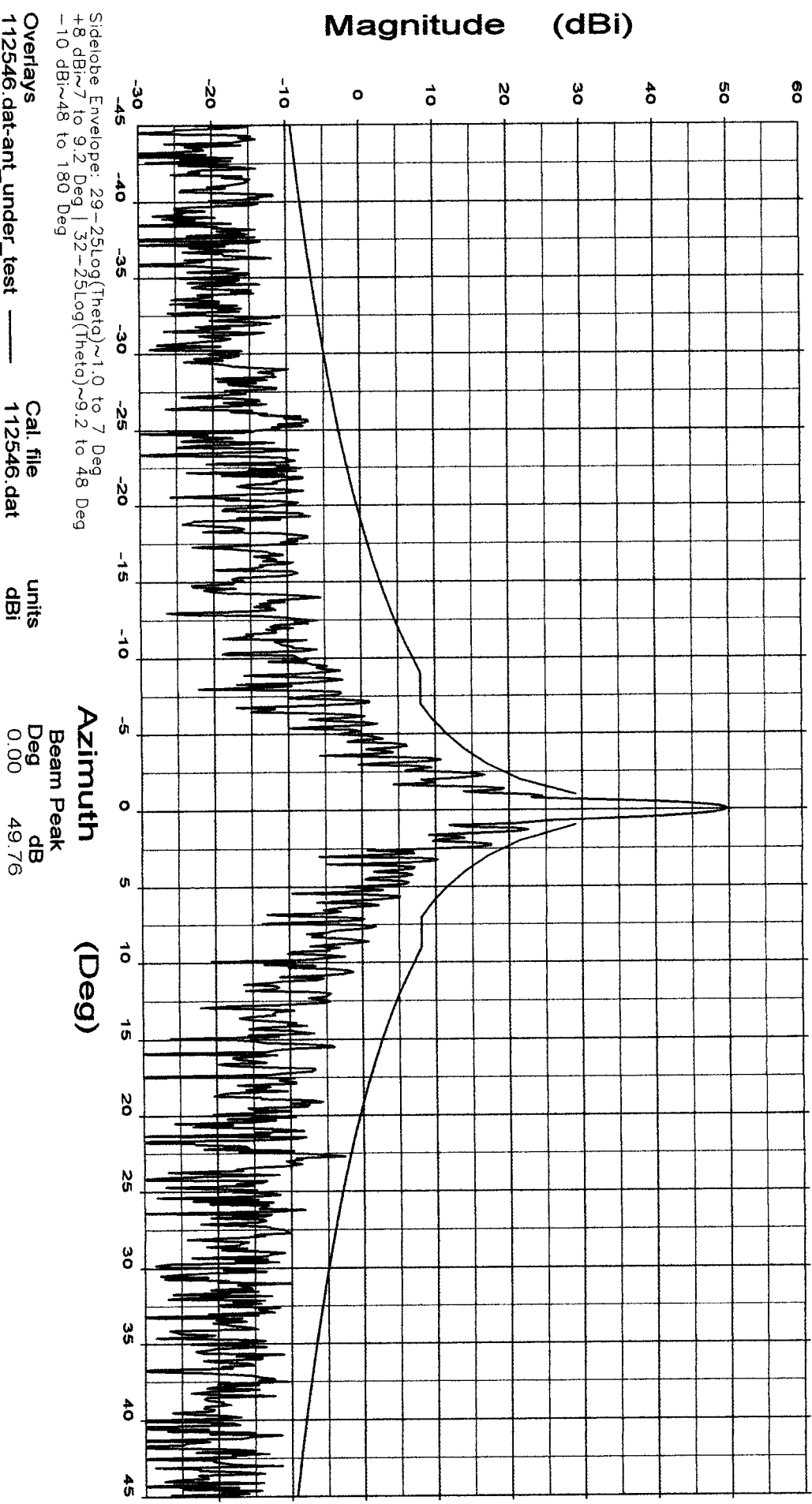


File: See Legend

Frequency : 19.700 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
SIDE PORT  
Tx pol: RHCP Rx pol: RHCP



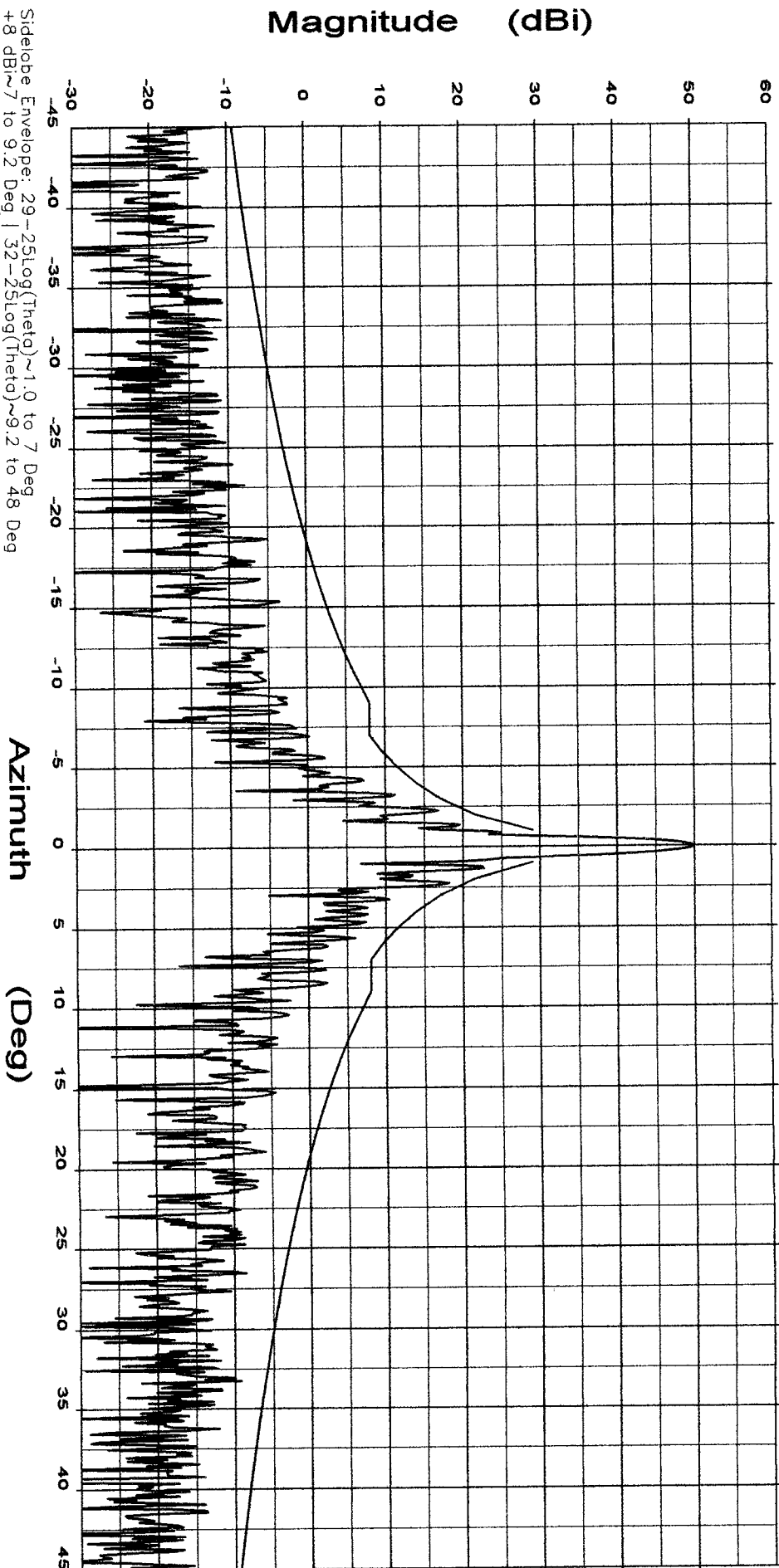
File: See Legend

PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
SIDE PORT

Frequency : 19.950 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



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  
112546.dat-ant\_under\_test

Cal file  
112546.dat

units  
dBi

Azimuth  
Beam Peak  
Deg dB  
0.03 49.93

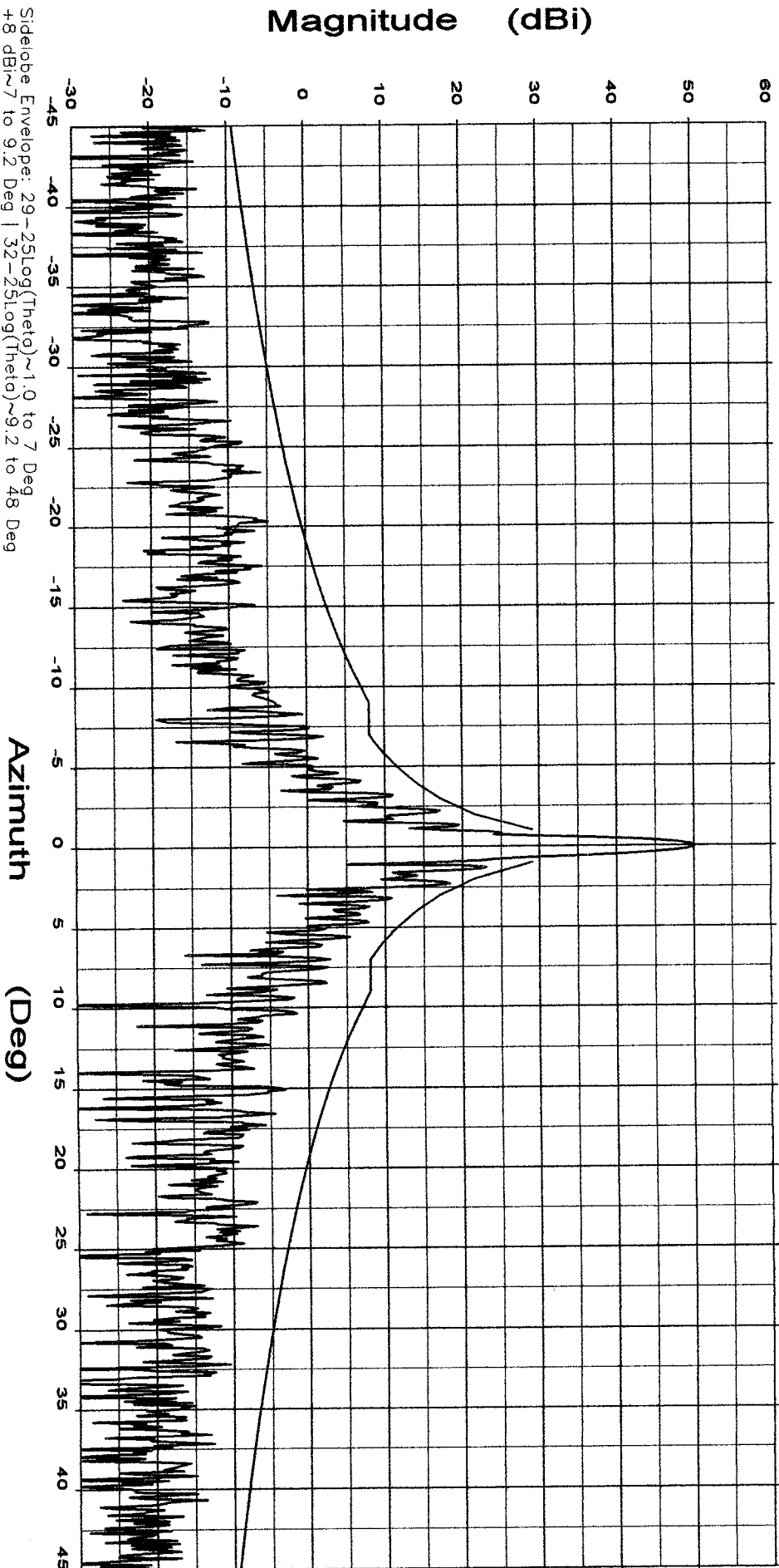
File: See Legend

PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
SIDE PORT

Frequency : 20.200 GHZ

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



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  
112546.dat-ant\_under\_test

Cal. file  
112546.dat

units  
dBi

Azimuth  
Beam Peak  
Deg dB  
-0.04 50.10

File: See Legend

PRODELIN

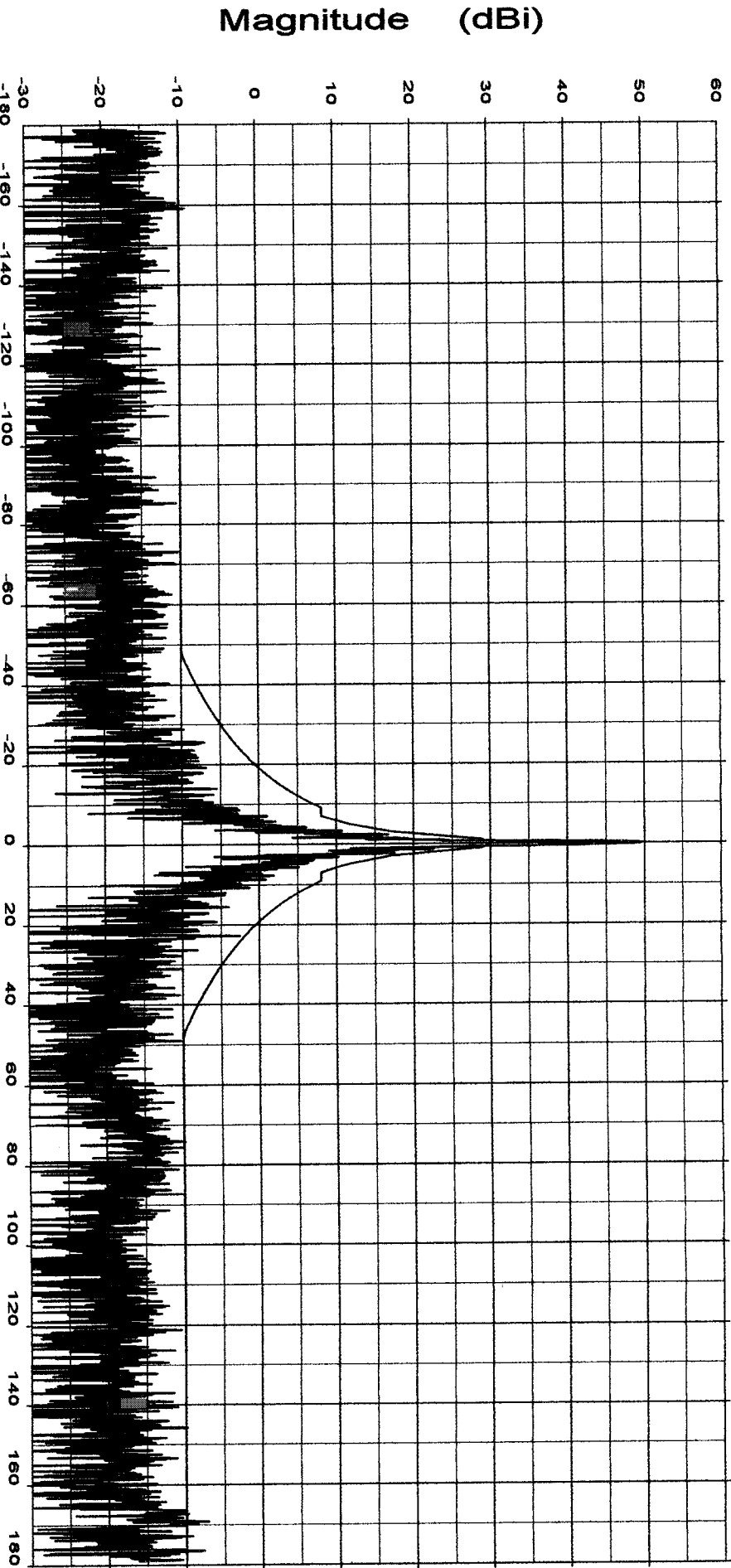
Frequency : 19.700 GHz

1.8 .8 f/d

Ka-Band Antenna System  
SIDE PORT

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



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  
112546.dat-ant\_under\_test — Cal. file 112546.dat units dBi

Azimuth Beam Peak  
Deg dB  
0.00 49.76

File: See Legend

PRODELIN

1.8 .8 f/d

Ka-Band Antenna System  
SIDE PORT

Frequency : 19.950 GHz

Operator: K. Poovey

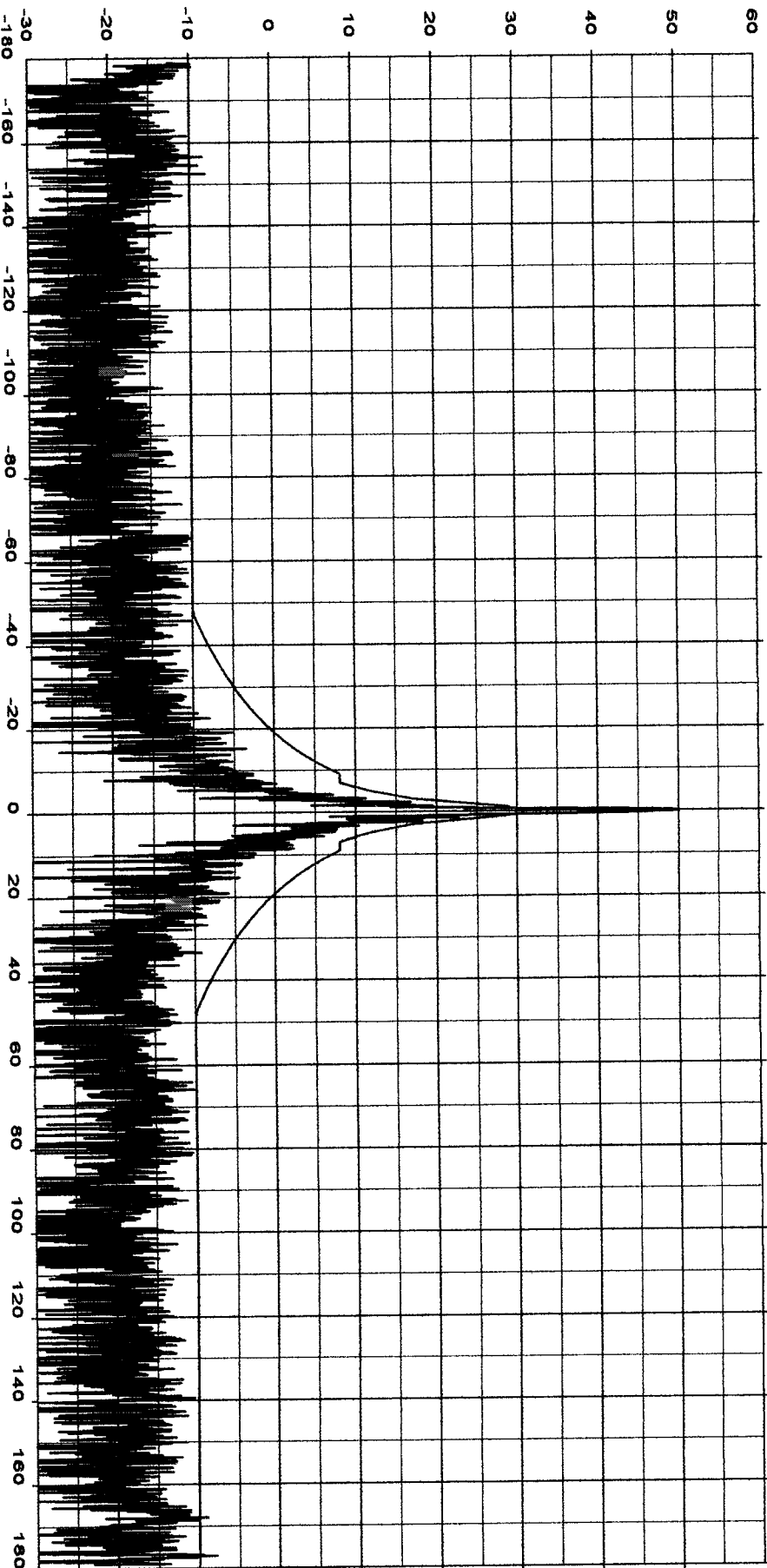
Ser. no.: 010903

Channel: ch1

Tx pol: RHCP

Rx pol: RHCP

Magnitude (dBi)



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  
112546.dat-ant\_under\_test

Cal. file  
112546.dat

units  
dBi

Azimuth  
Beam Peak  
Deg dB  
0.03 49.93

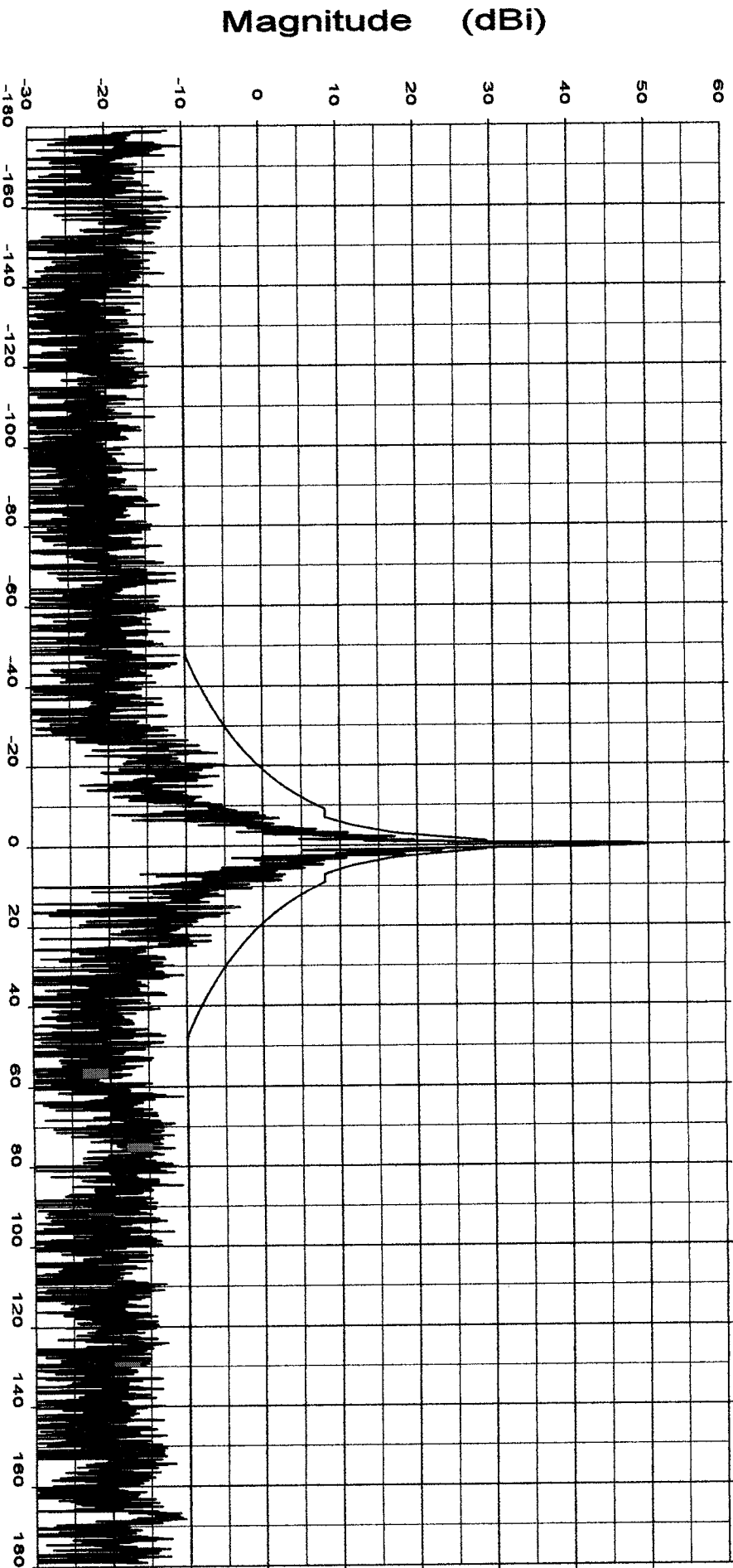
File: See Legend

PRODELIN  
1.8 .8 f/d  
Ka-Band Antenna System  
SIDE PORT

Frequency : 20.200 GHz

Operator: K. Poovey  
Ser. no.: 010903  
Channel: ch1

Tx pol: RHCP Rx pol: RHCP



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  
112546.dat-ant\_under\_test

Cal. file  
112546.dat

units  
dBi

Azimuth (Deg)  
Beam Peak  
Deg dB  
-0.04 50.10