

GENERAL DYNAMICS

C4 Systems

Antenna Test Report

Test No. 1382

Project: 74cm Ku-Band / Series 1741



East Maiden Antenna Test Facility
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GENERAL DYNAMICS
C4 Systems



1500 Prodelin Drive
Newton, NC 28658
828-464-4141

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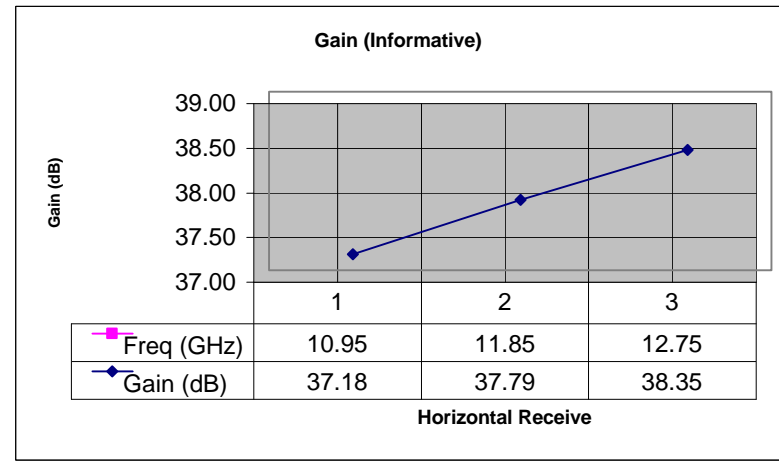
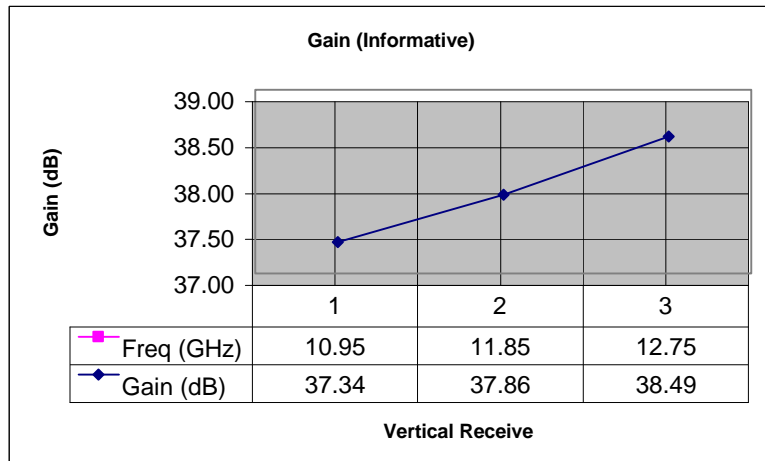
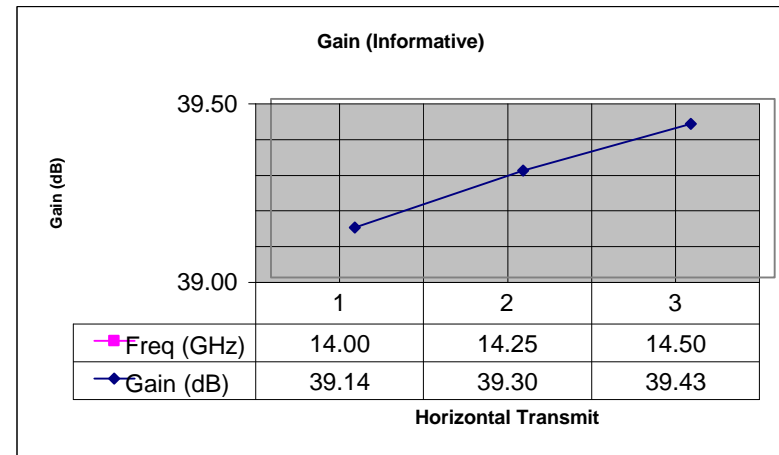
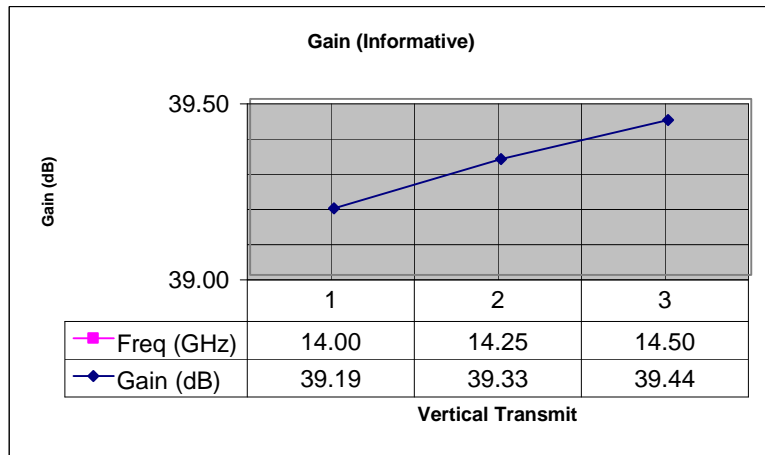


Section I



Project: 74cm Metal Ku-Band Rx/Tx Antenna System
Test No.1382

Gain Analysis





Section II



X-Pol Analysis

74cm Metal Ku-Band Rx/Tx Antenna System

Test No. 1382

| Frequency | Polarization Vertical | On Axis X-Pol Azimuth Plane (dB) | On Axis X-Pol Elevation Plane (dB) |
|------------------|----------------------------------|---|---|
| 10.95 | Vertical | -45.60 | -43.32 |
| 11.85 | Vertical | -48.53 | -59.82 |
| 12.75 | Vertical | -45.49 | -43.57 |
| 14.00 | Vertical | -36.88 | -34.18 |
| 14.25 | Vertical | -42.88 | -40.65 |
| 14.50 | Vertical | -45.55 | -44.40 |

| Frequency | Polarization Horizontal | On Axis X-Pol Azimuth Plane (dB) | On Axis X-Pol Elevation Plane (dB) |
|------------------|------------------------------------|---|---|
| 10.95 | Horizontal | -46.24 | -43.86 |
| 11.85 | Horizontal | -50.72 | -59.16 |
| 12.75 | Horizontal | -38.67 | -38.29 |
| 14.00 | Horizontal | -45.44 | -49.47 |
| 14.25 | Horizontal | -46.84 | -47.90 |
| 14.50 | Horizontal | -40.55 | -40.50 |

Section III



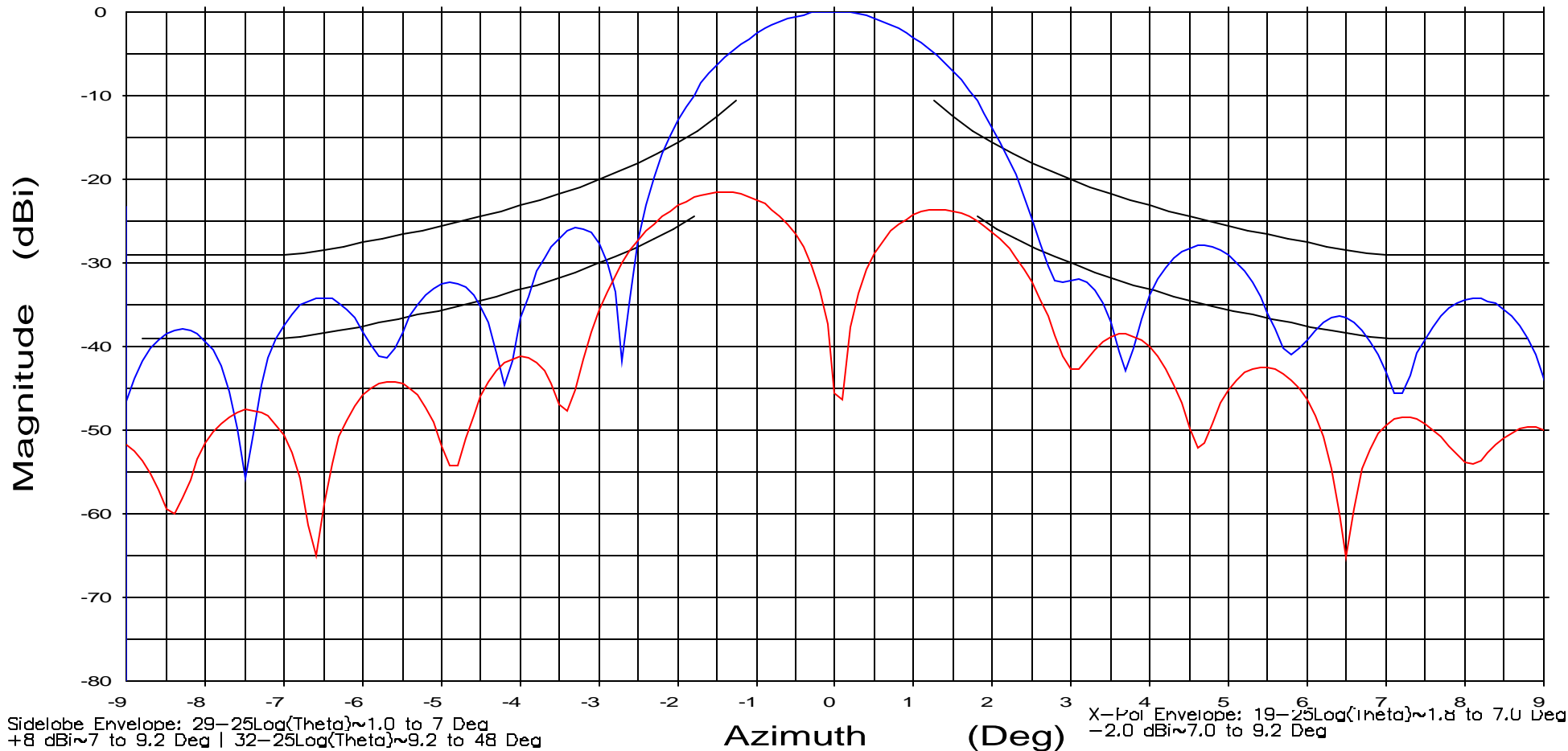
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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)|~1.0 to 7.0 Deg
 -2.0 dBi~7.0 to 9.2 Deg

Overlays
 1378 - 32.dat-ant_under_test
 1378 - 34A.dat-ant_under_test

| Cal. file | units |
|--------------|-------|
| 1378 - 32.da | dBi |
| 1378 - 34A.d | dBi |

| Beam Peak | |
|-----------|------|
| Deg | dB |
| -0.04 | 0.01 |

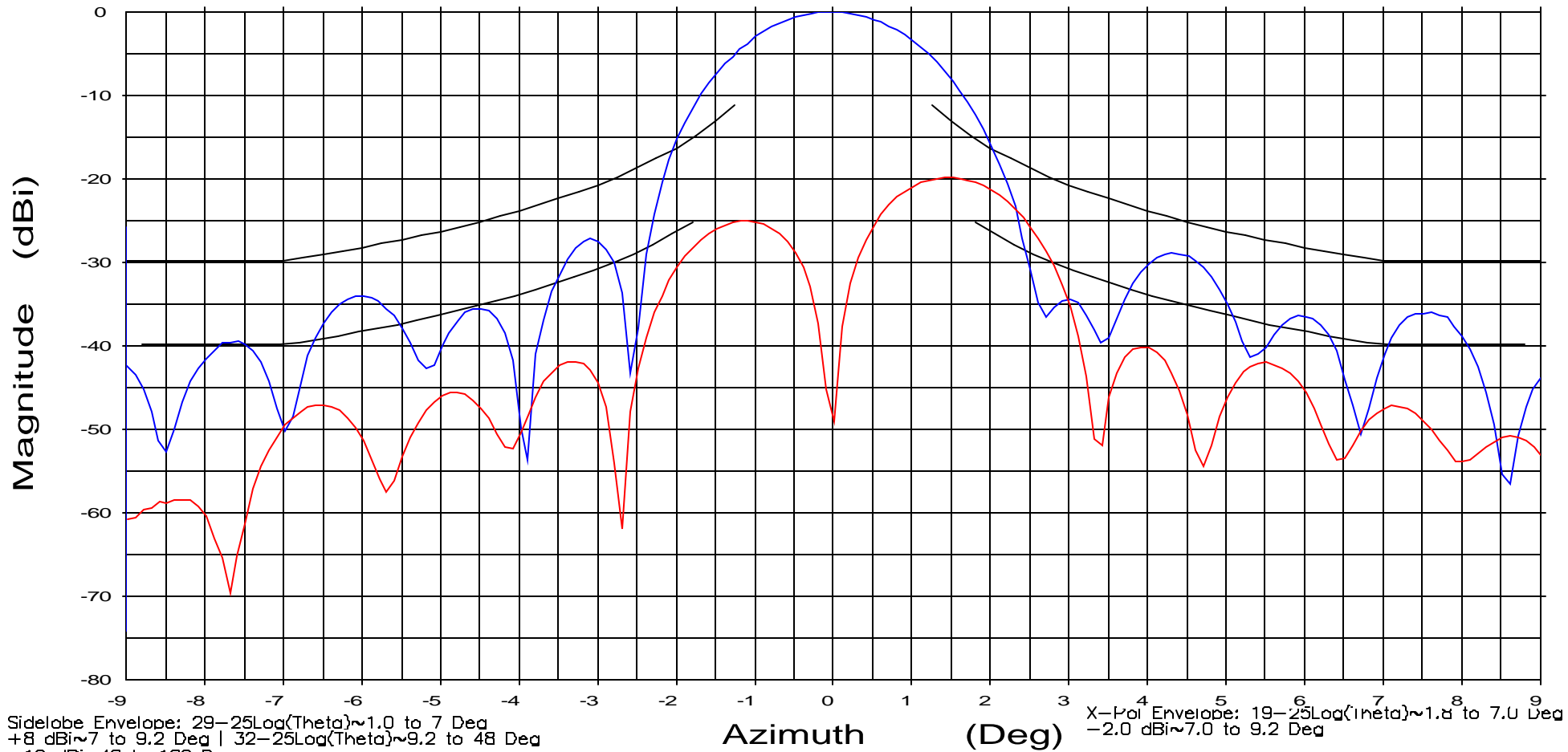
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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)~1.0 to 7.0 Deg
 -2.0 dBi~7.0 to 9.2 Deg

Overlays
 1378 - 32.dat-ant_under_test
 1378 - 34B.dat-ant_under_test

| Cal. file | units |
|--------------|-------|
| 1378 - 32.da | dBi |
| 1378 - 34B.d | dBi |

| Beam Peak | |
|-----------|-------|
| Deg | dB |
| -0.02 | -0.03 |

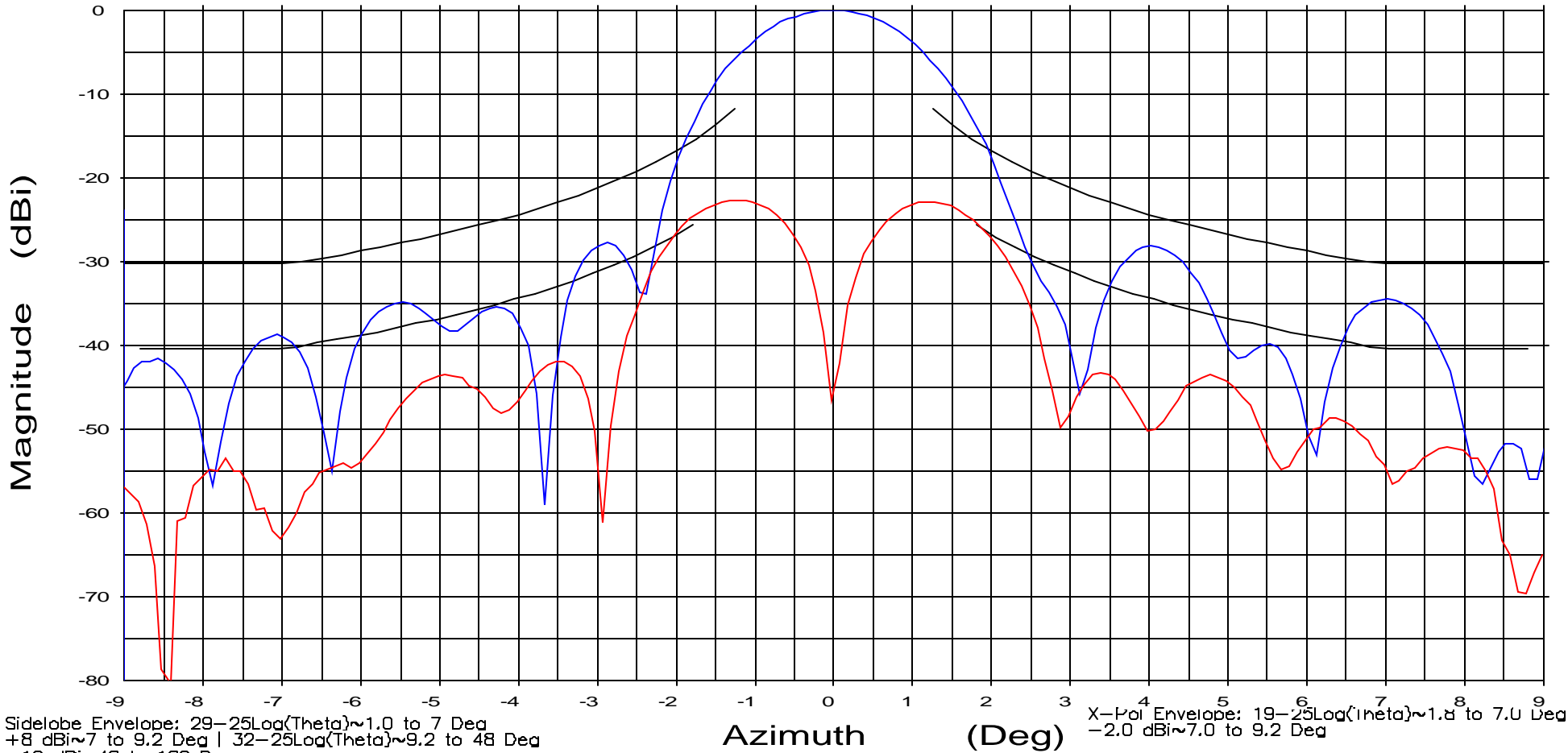
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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

X-Pol Envelope: $19 - 25 \log(|\theta|) \sim 1.8$ to 7.0 Deg
 -2.0 dBi ~ 7.0 to 9.2 Deg

Overlays
 1378 - 32.dat-ant_under_test — (blue line)
 1378 - 34.dat-ant_under_test — (red line)

| Cal. file | units |
|--------------|-------|
| 1378 - 32.da | dBi |
| 1378 - 34.da | dBi |

| Beam Peak | |
|-----------|-------|
| Deg | dB |
| -0.02 | -0.03 |

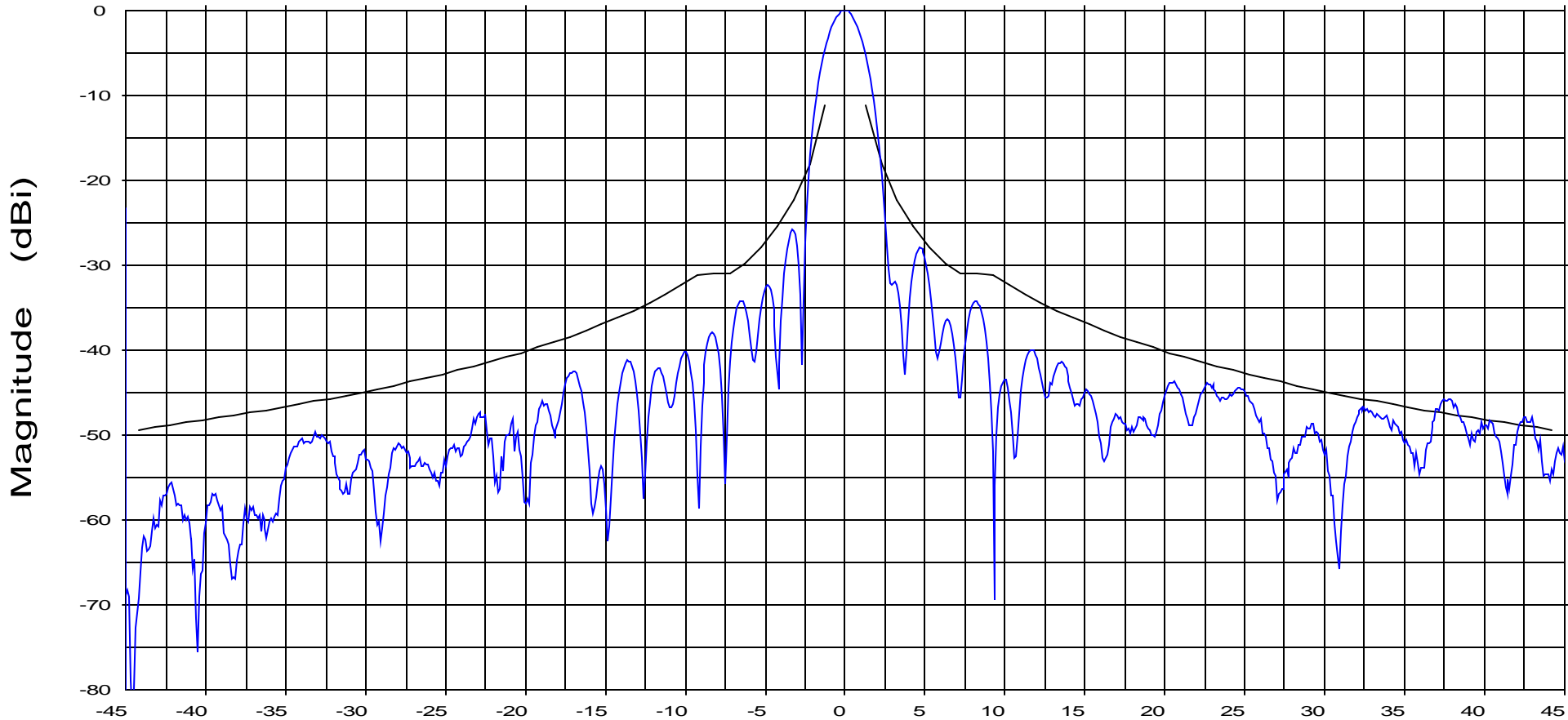
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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
1378 - 32.dat-ant_under_test —

Cal. file
1378 - 32.da

units
dBi

Azimuth (Deg)

Beam Peak
Deg -0.04
dB 0.01

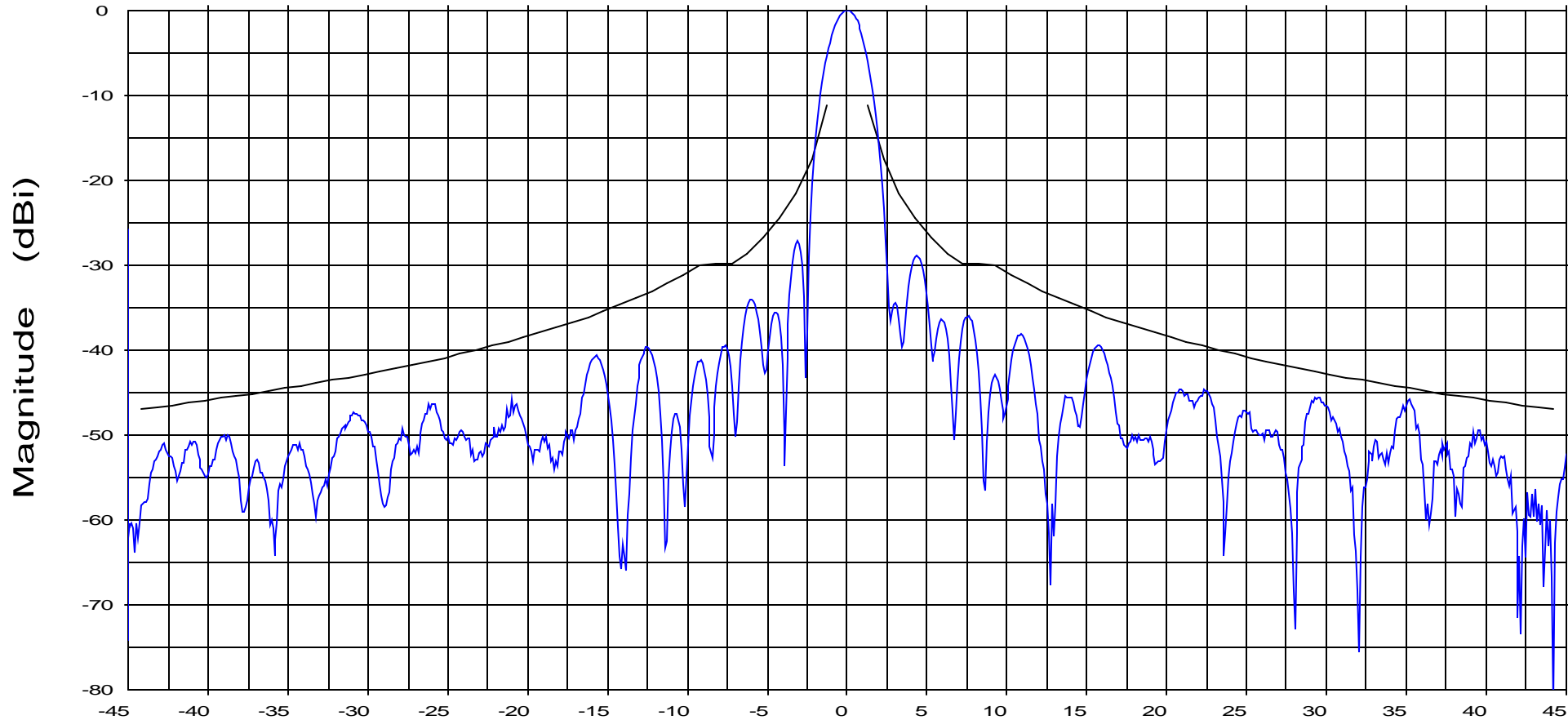
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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
1378 - 32.dat-ant_under_test —

Cal. file
1378 - 32.da

units
dBi

Azimuth (Deg)

Beam Peak
Deg dB
-0.02 -0.03

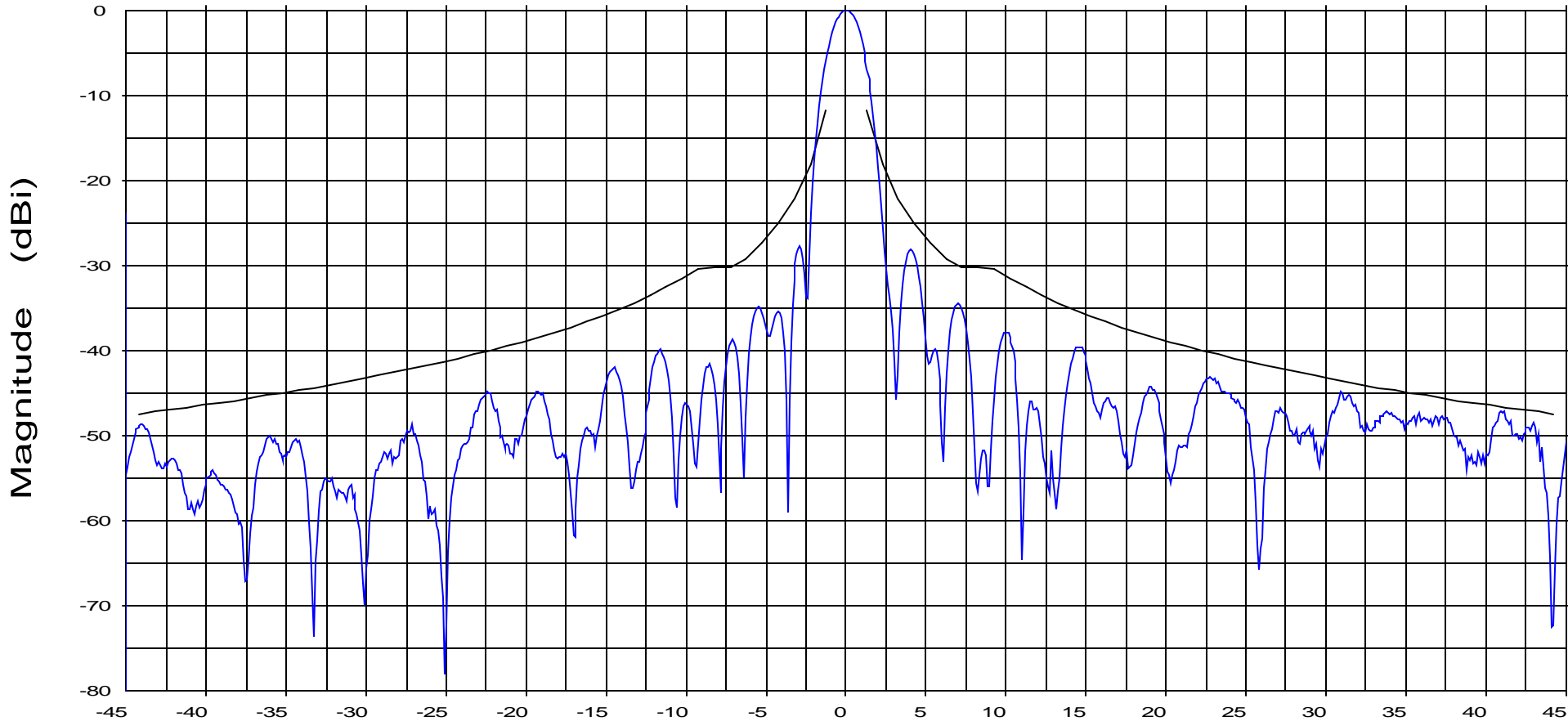
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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
1378 - 32.dat-ant_under_test

Cal. file
1378 - 32.da

units
dBi

Azimuth (Deg)

Beam Peak
Deg dB
-0.02 -0.03

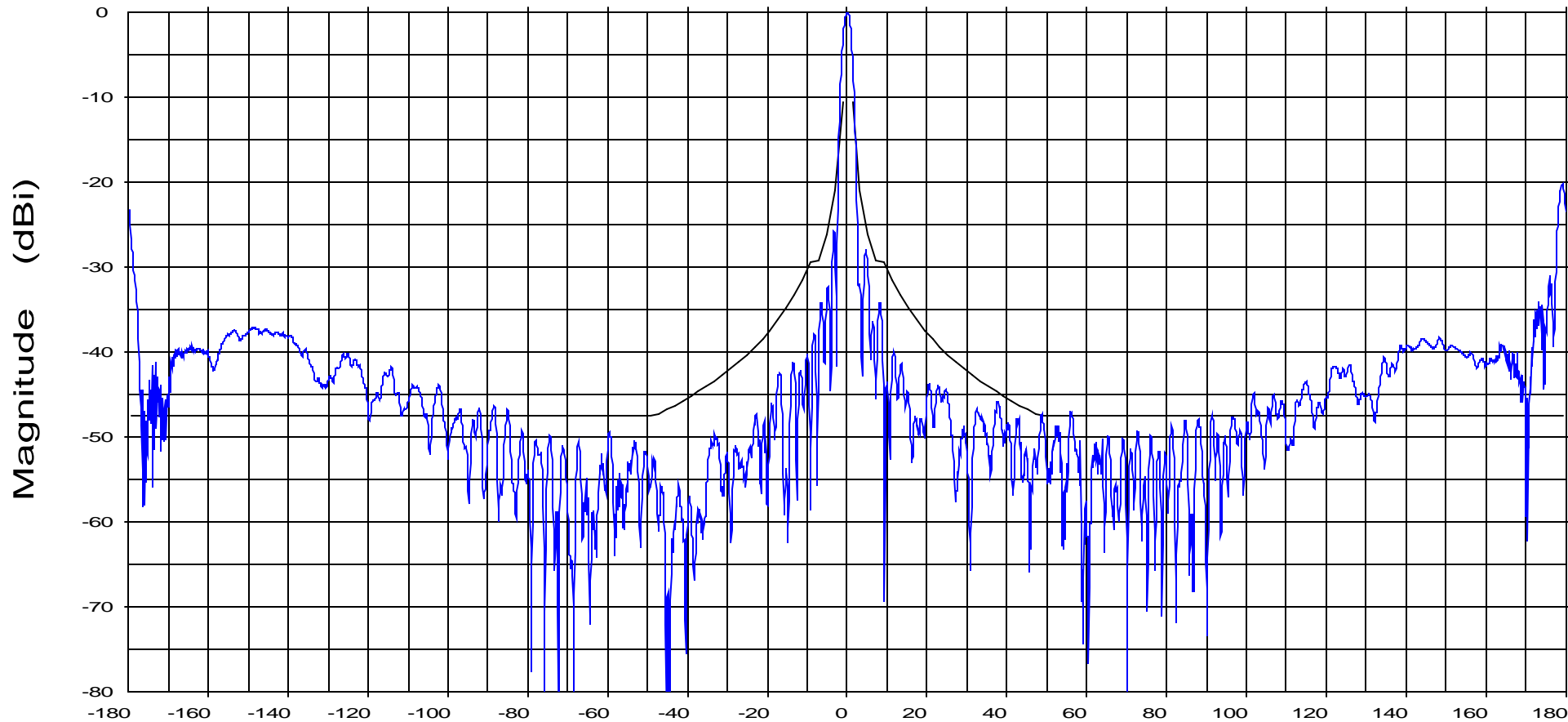
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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

Azimuth (Deg)

Overlays
1378 - 32.dat-ant_under_test

Cal. file
1378 - 32.da

units
dBi

Beam Peak
Deg dB
-0.04 0.01

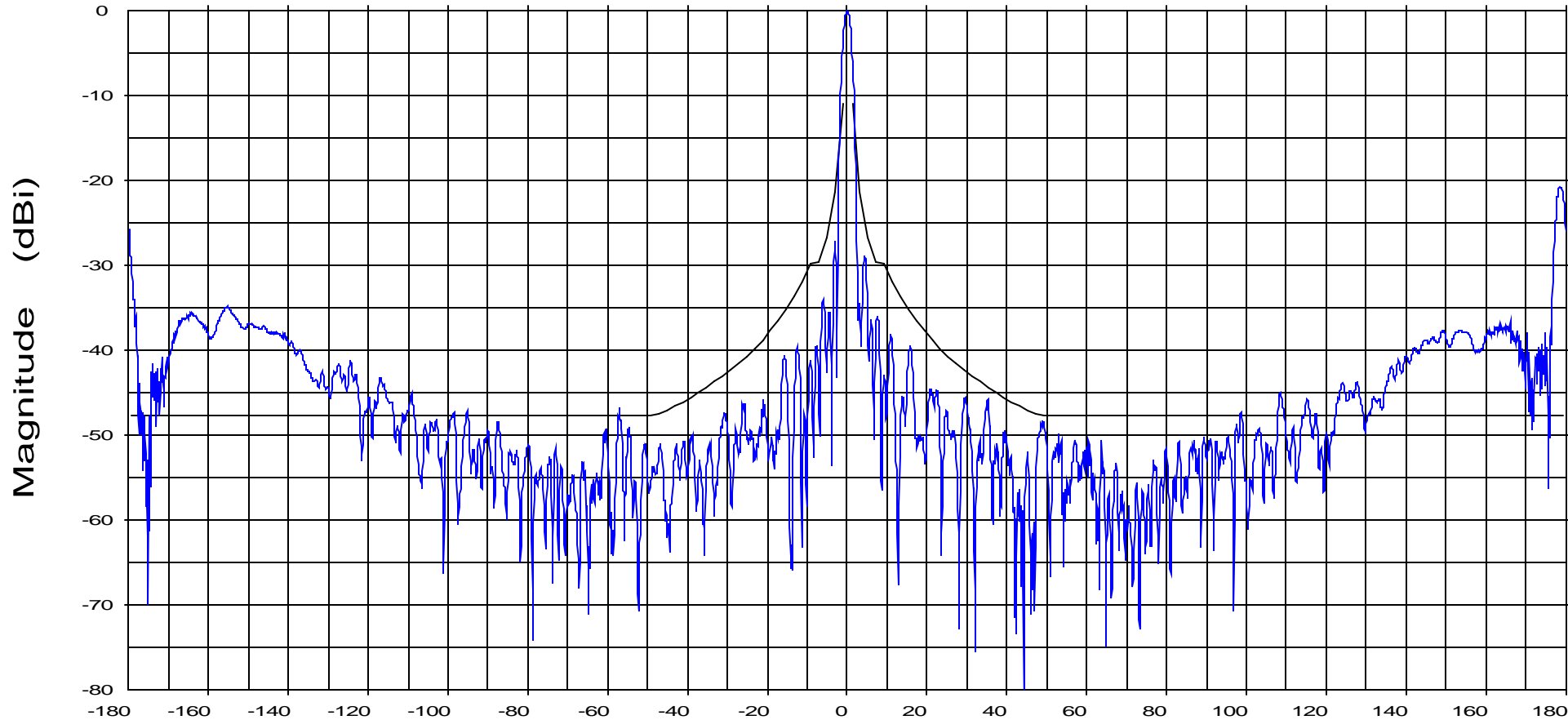
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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

Overlays
1378 - 32.dat-ant_under_test

Cal. file
1378 - 32.da

units
dBi

Azimuth (Deg)

Beam Peak
Deg dB
-0.02 -0.03

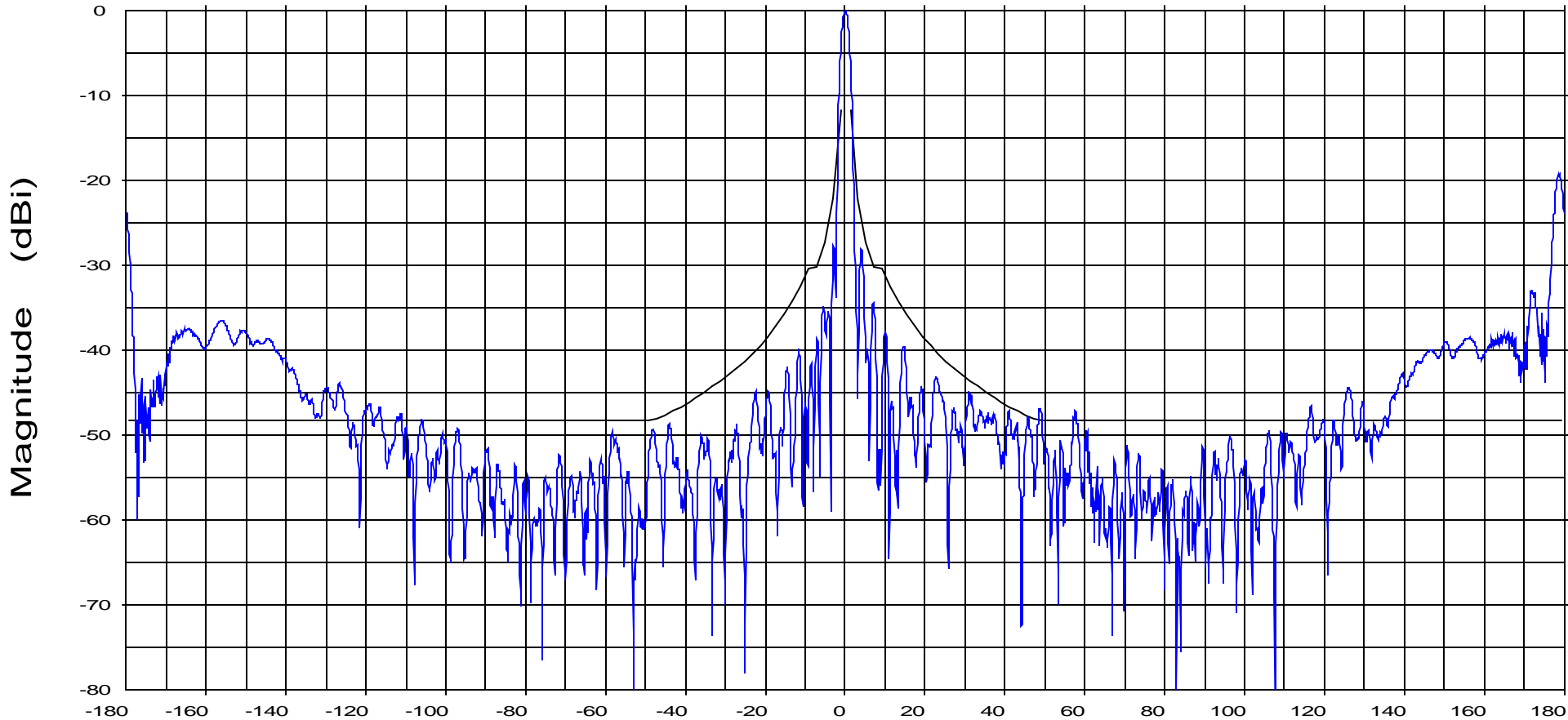
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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

Overlays
1378 - 32.dat-ant_under_test

Cal. file
1378 - 32.da

units
dBi

Azimuth (Deg)

Beam Peak
Deg dB
-0.02 -0.03

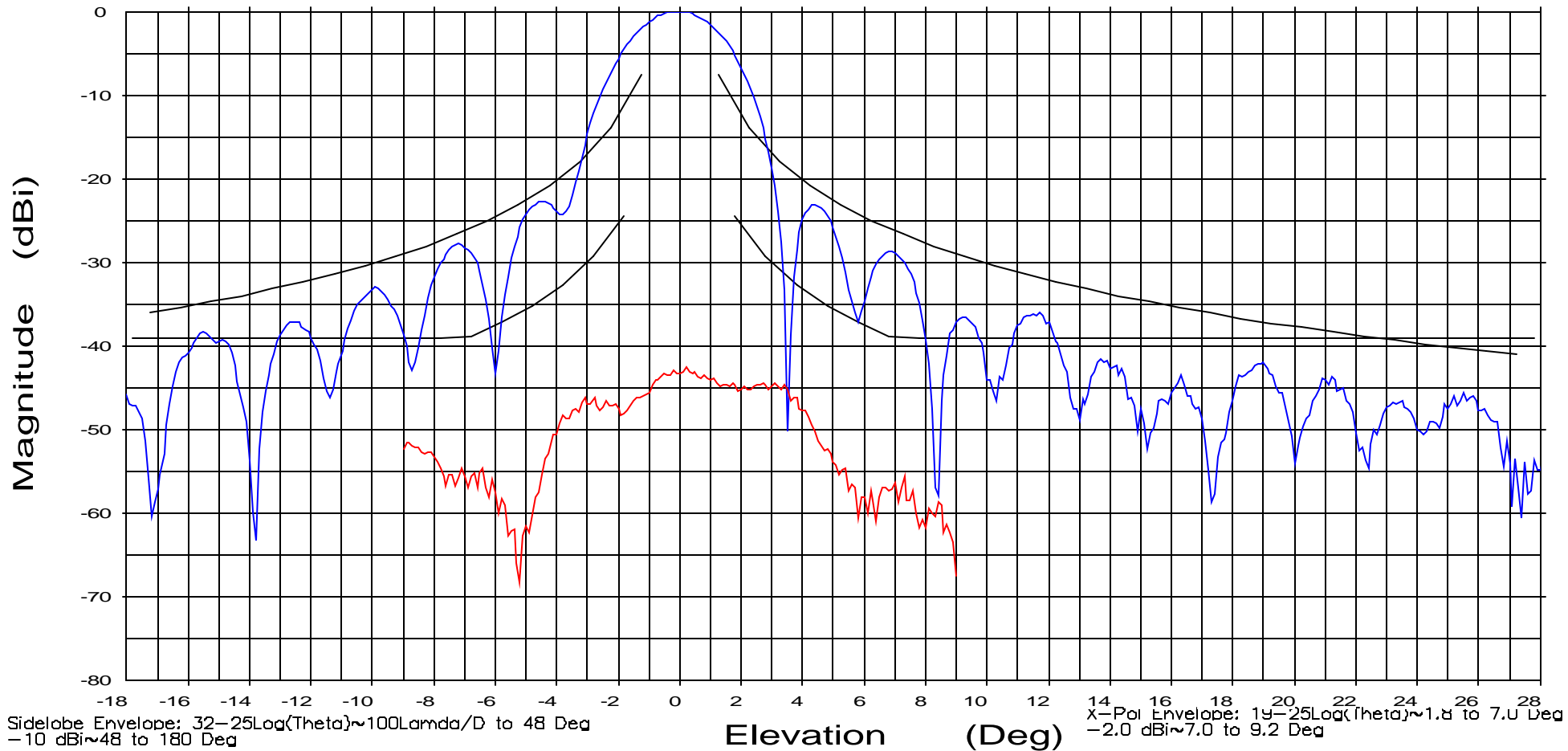
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

1378 - 33.dat-ant_under_test — (blue line)
 1378 - 35A.dat-ant_under_test — (red line)

Cal. file

1378 - 33.da
 1378 - 35A.d

units

dBi
 dBi

Elevation (Deg)

Beam Peak

| Deg | dB |
|-------|------|
| -0.06 | 0.01 |

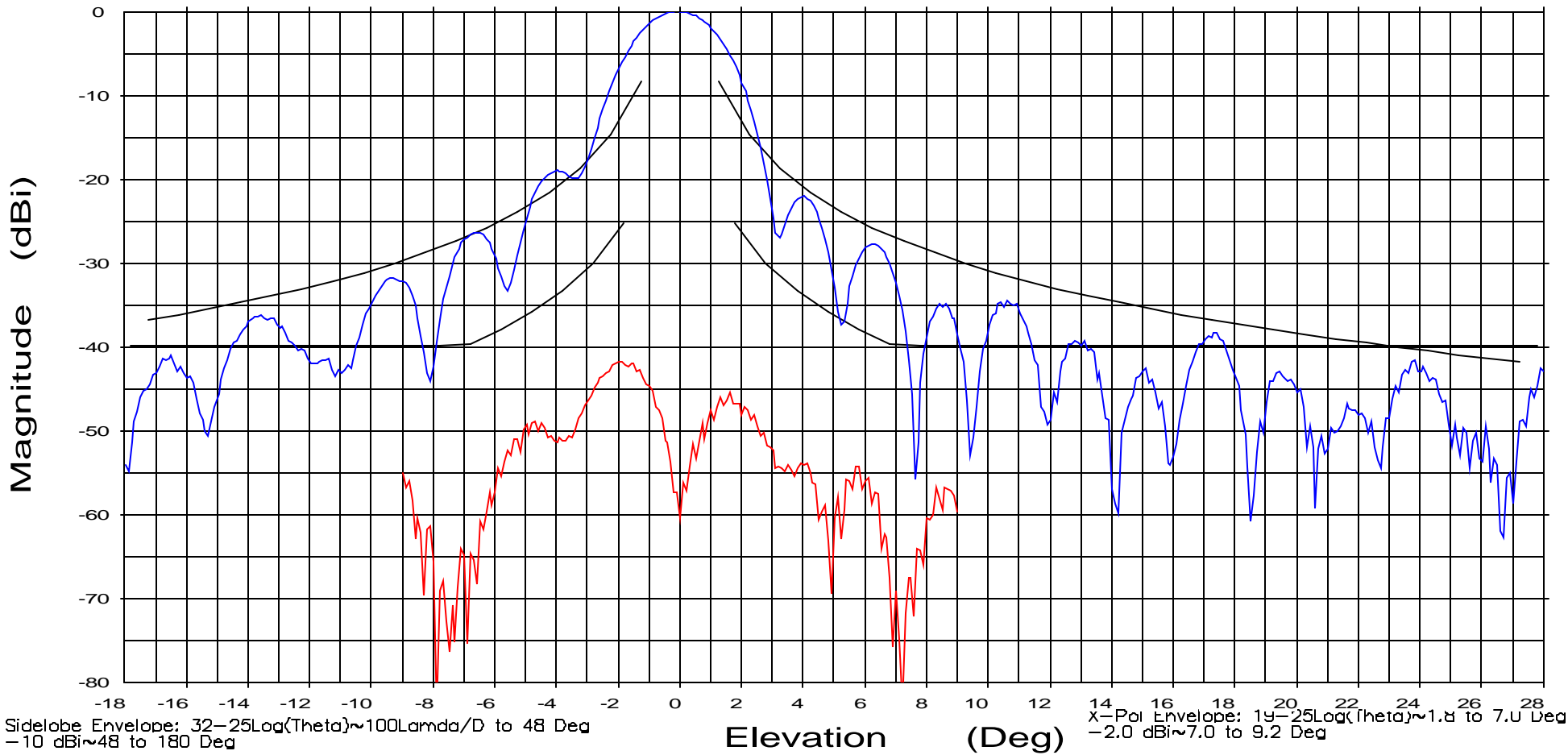
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

1378 - 33.dat-ant_under_test — blue line
 1378 - 35B.dat-ant_under_test — red line

Cal. file

1378 - 33.da
 1378 - 35B.d

units

dBi
 dBi

Elevation (Deg)

Beam Peak

Deg dB
 -0.06 0.02

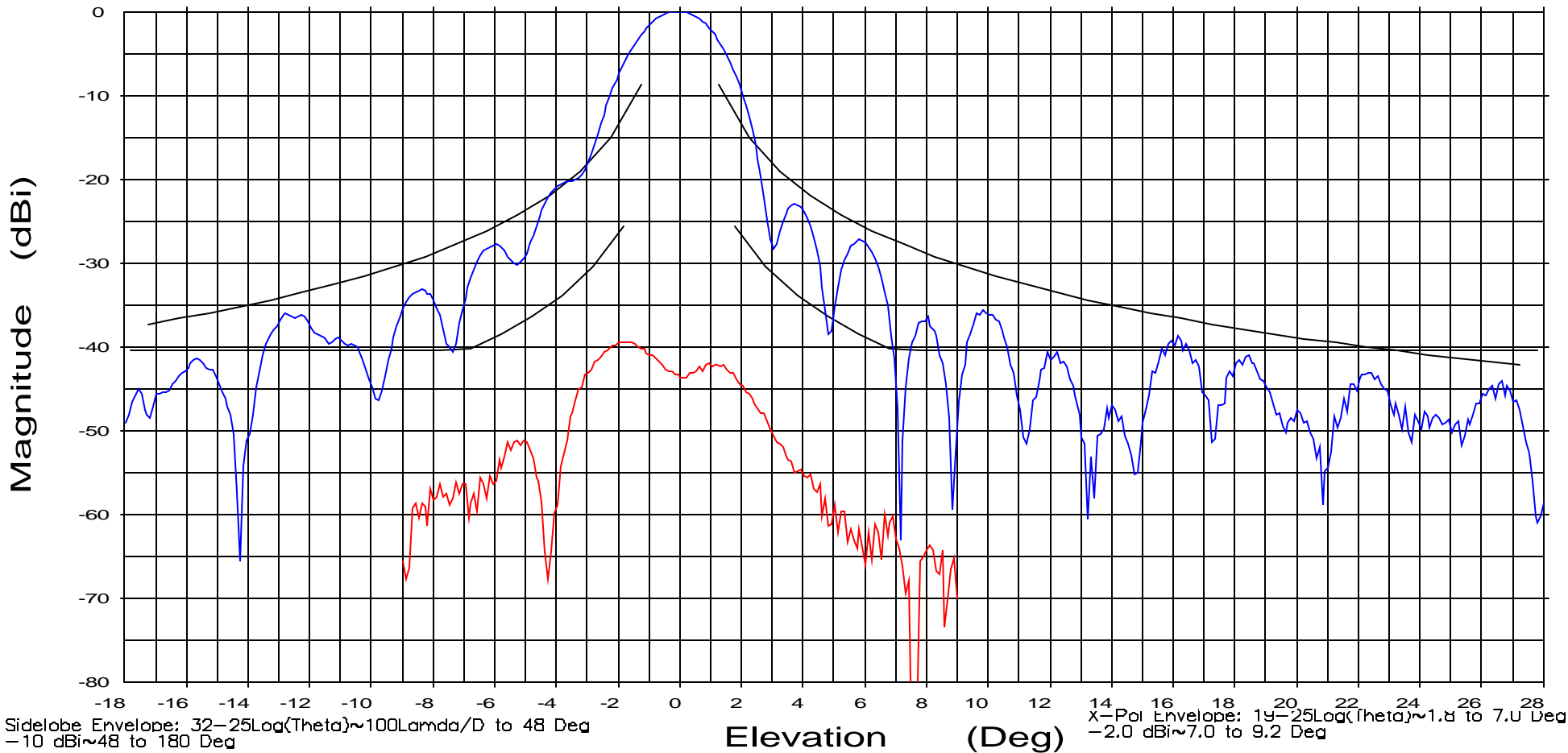
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: $32 - 25 \log(\theta) \sim 100 \lambda / D$ to 48 Deg
-10 dBi ~ 48 to 180 Deg

X-Pol Envelope: $19 - 25 \log(\theta) \sim 1.8$ to 7.0 Deg
-2.0 dBi ~ 7.0 to 9.2 Deg

Elevation (Deg)

Overlays

1378 - 33.dat-ant_under_test —

1378 - 35.dat-ant_under_test —

Cal. file

1378 - 33.da

1378 - 35.da

units

dBi

dBi

Beam Peak

Deg

-0.06

dB

0.03

Section IV



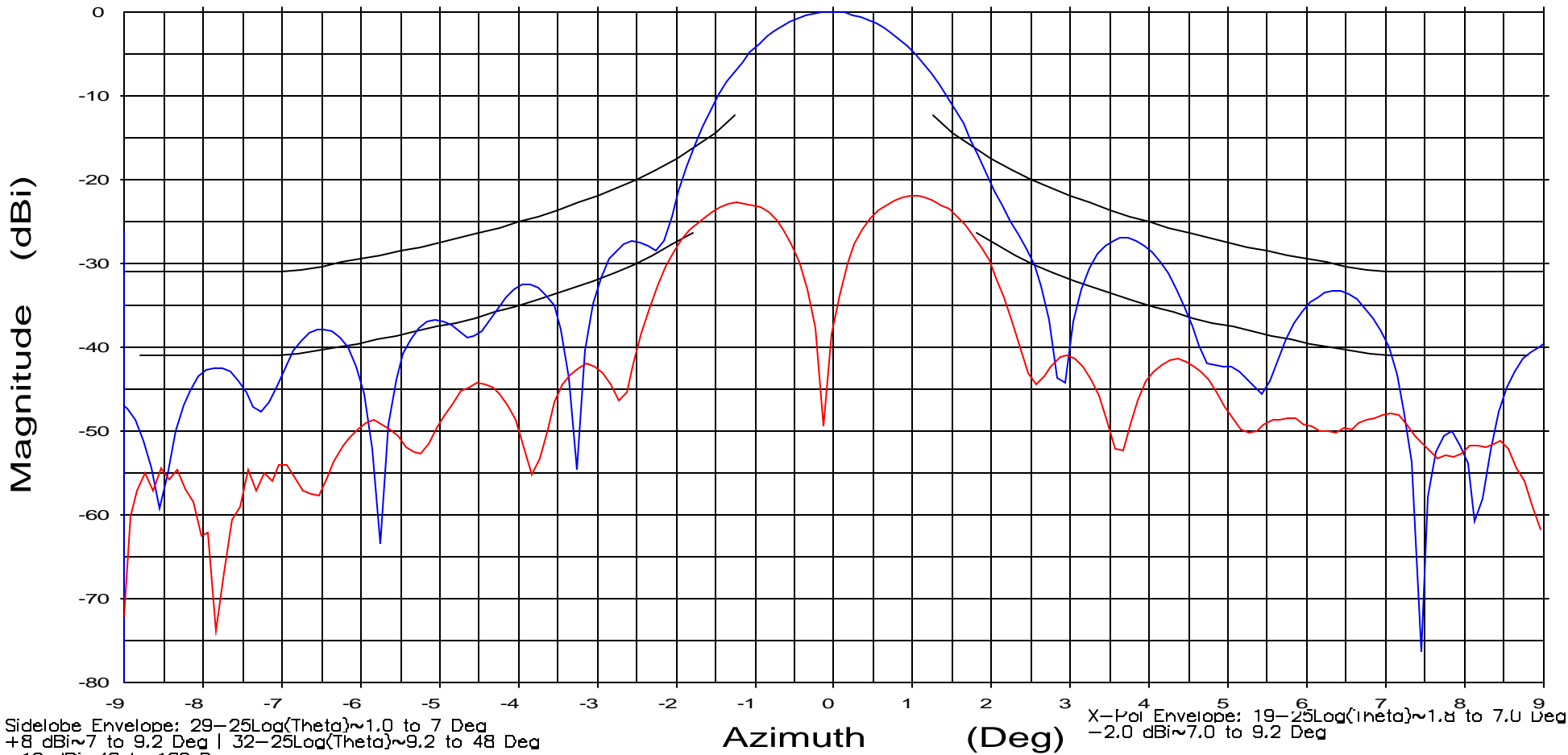
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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

X-Pol Envelope: $19 - 25 \log(\theta) \sim 1.0$ to 7.0 Deg
 -2.0 dBi ~ 7.0 to 9.2 Deg

Overlays
 1378 - 32.dat-ant_under_test — (blue)
 1378 - 34.dat-ant_under_test — (red)

| Cal. file | units |
|--------------|-------|
| 1378 - 32.da | dBi |
| 1378 - 34.da | dBi |

| Beam Peak | |
|-----------|-------|
| Deg | dB |
| -0.03 | -0.05 |

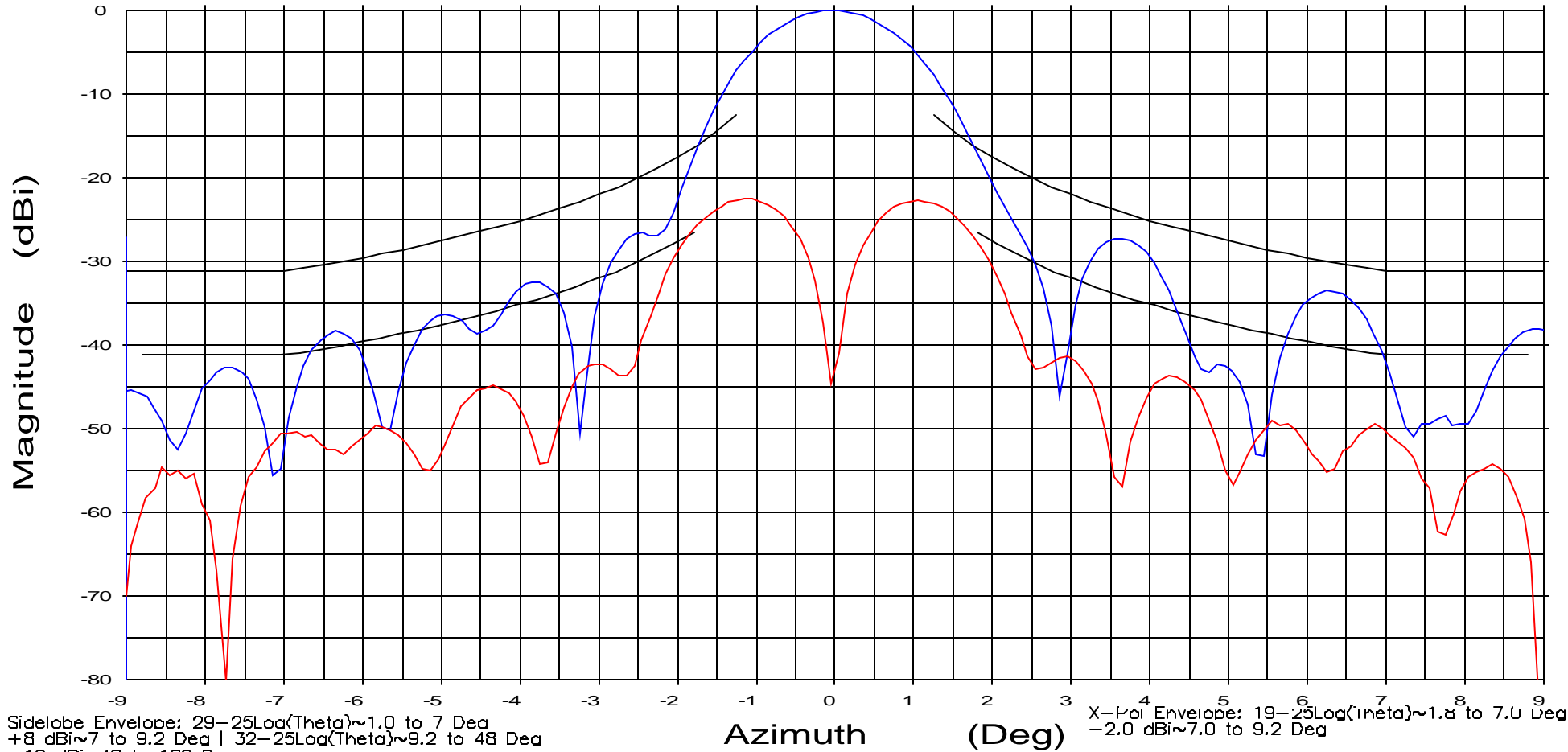
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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)|~1.0 to 7.0 Deg
 -2.0 dBi~7.0 to 9.2 Deg

Overlays
 1378 - 32.dat-ant_under_test
 1378 - 34.dat-ant_under_test

Cal. file
 1378 - 32.da
 1378 - 34.da

| | |
|-------|-----------|
| units | Beam Peak |
| dBi | Deg |
| dBi | -0.03 |
| | -0.03 |

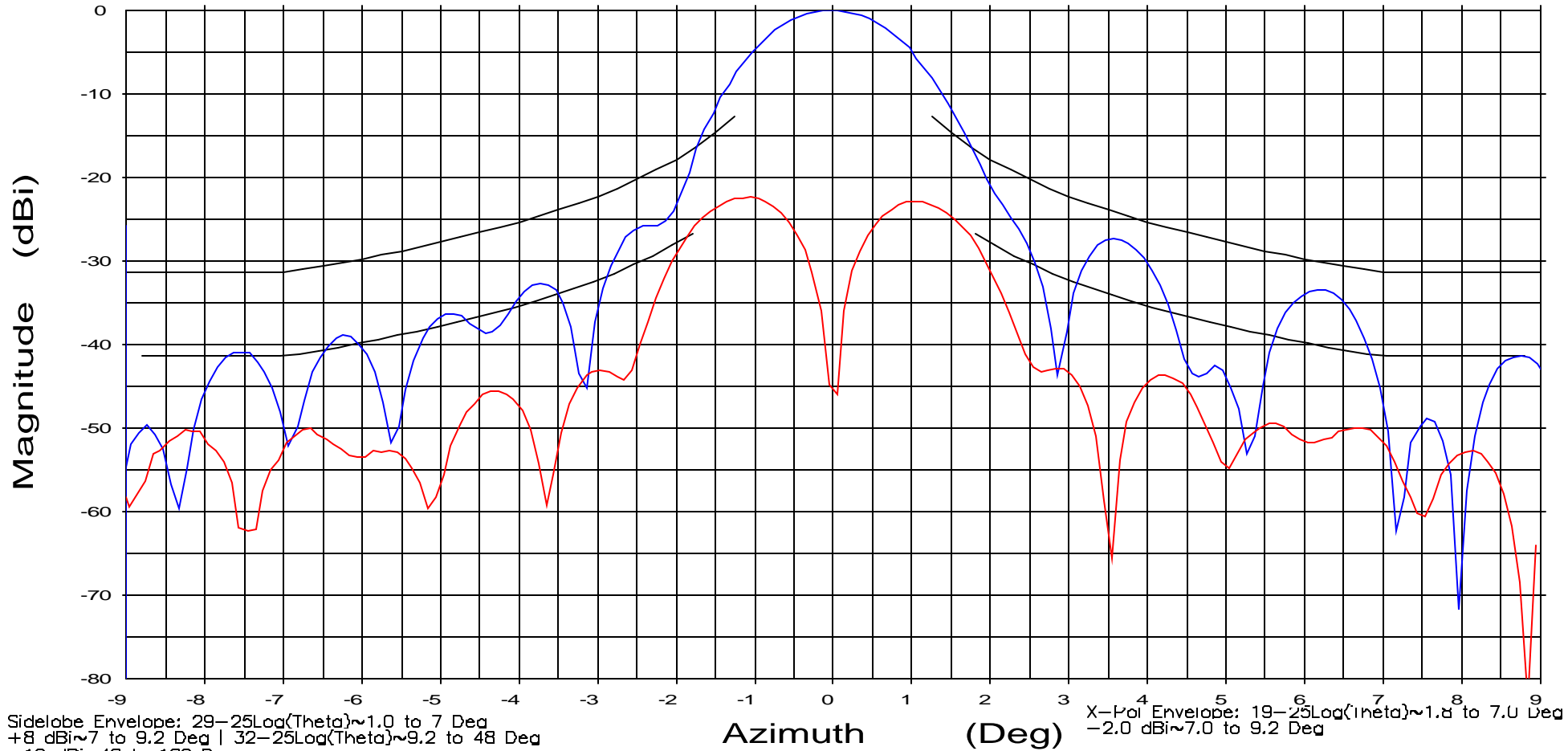
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays
 1378 - 32.dat-ant_under_test —
 1378 - 34.dat-ant_under_test —

Cal. file units
 1378 - 32.da dBi
 1378 - 34.da dBi

Beam Peak
 Deg dB
 -0.02 -0.03

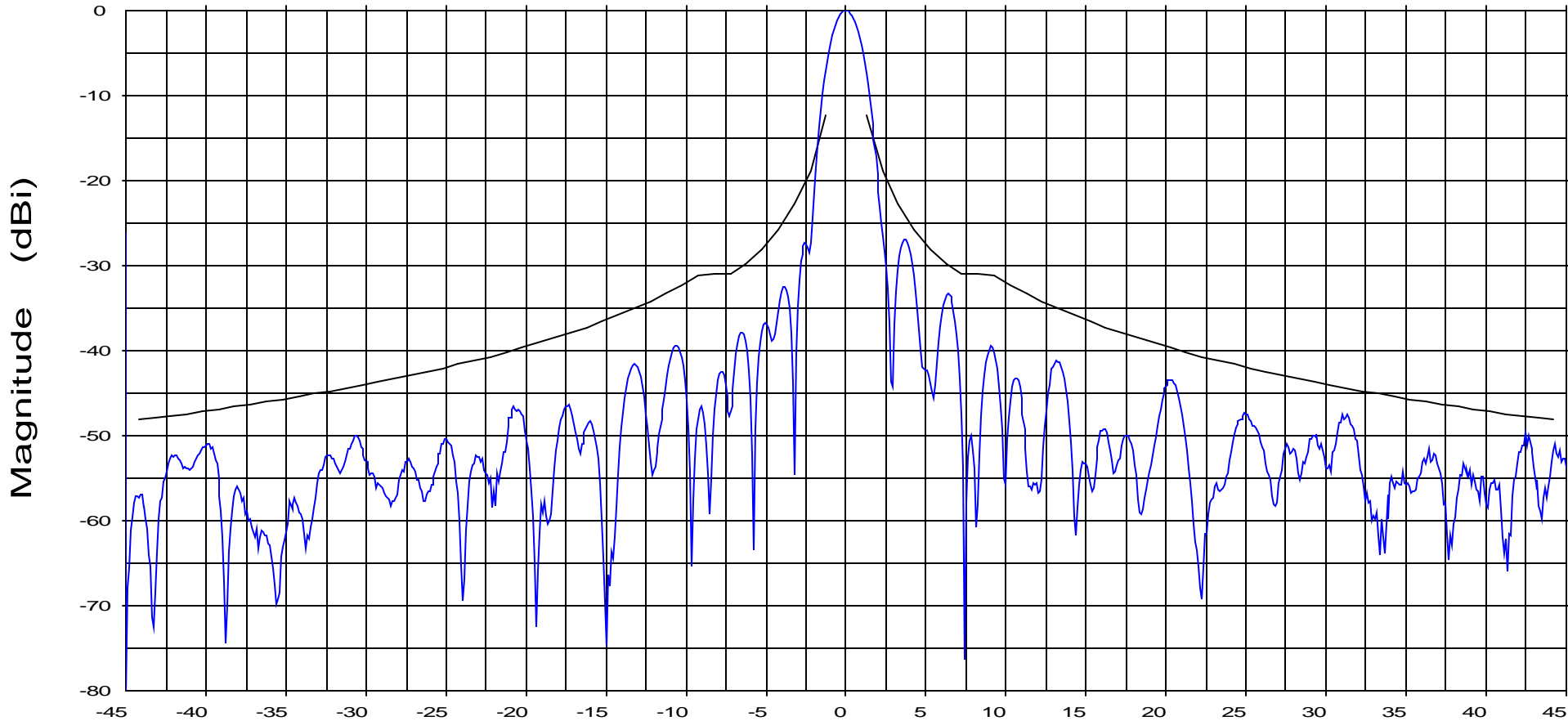
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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)

Overlays
1378 - 32.dat-ant_under_test —

Cal. file
1378 - 32.da

units
dBi

Beam Peak
Deg dB
-0.03 -0.05

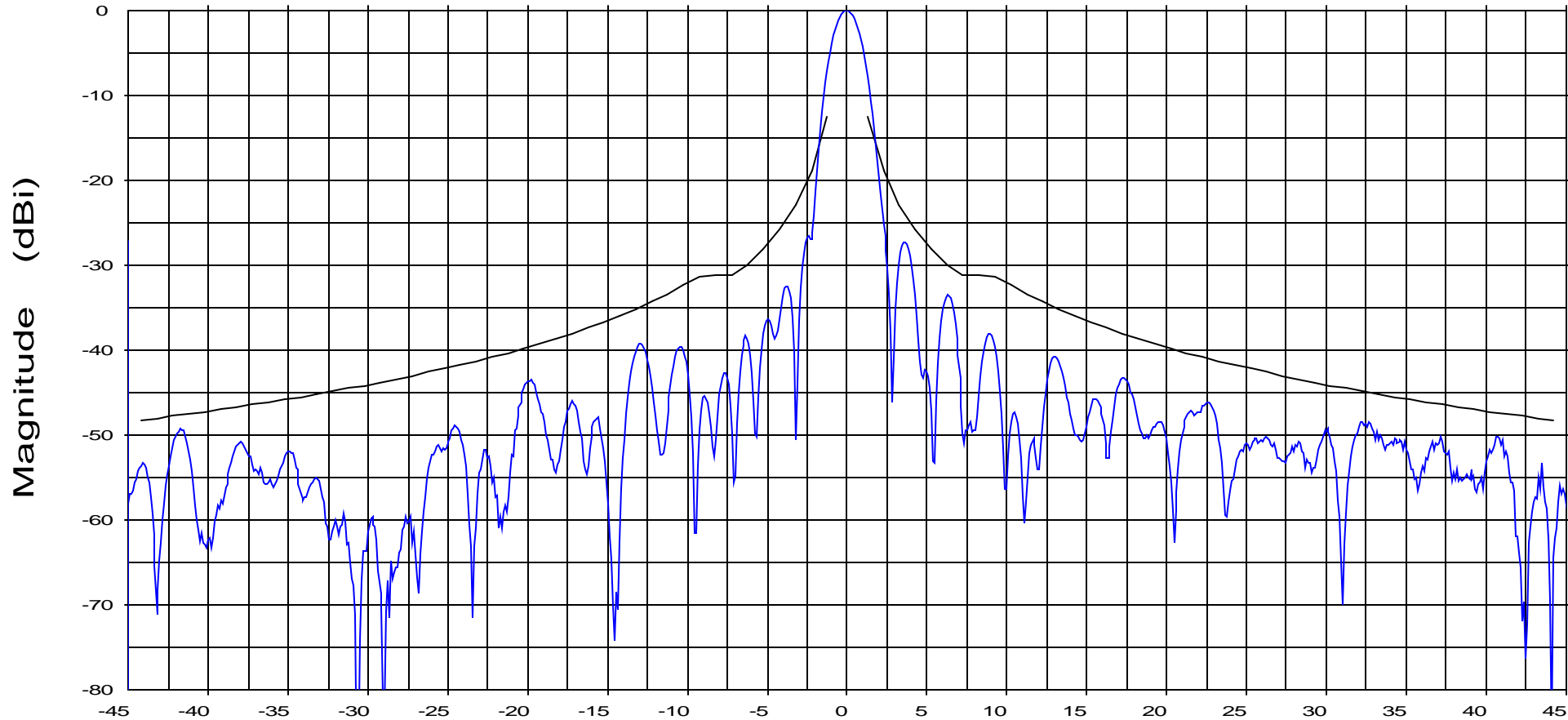
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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
1378 - 32.dat-ant_under_test —

Cal. file
1378 - 32.da

units
dBi

Azimuth (Deg)

Beam Peak
Deg dB
-0.03 -0.03

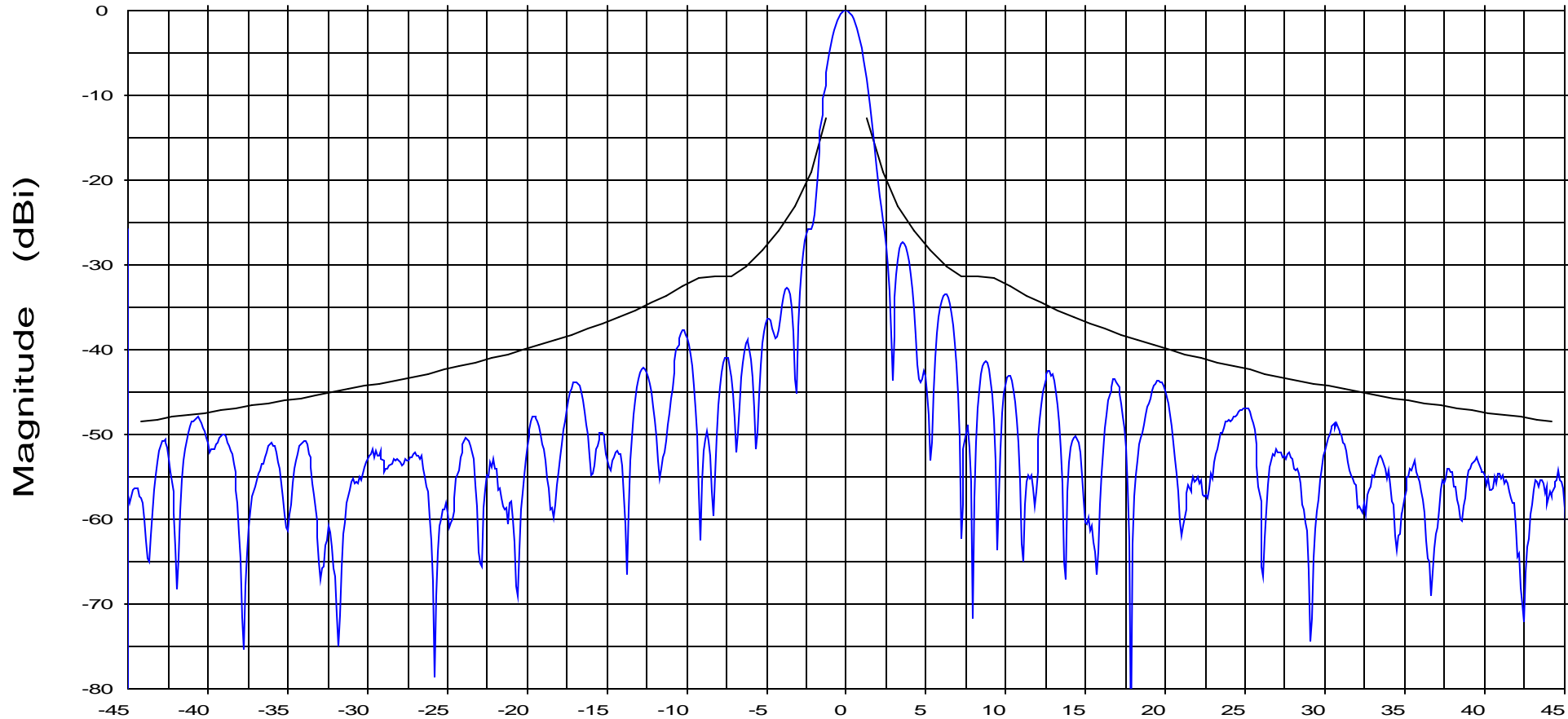
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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
1378 - 32.dat-ant_under_test —

Cal. file
1378 - 32.da

units
dBi

Azimuth (Deg)

Beam Peak
Deg -0.02
dB -0.03

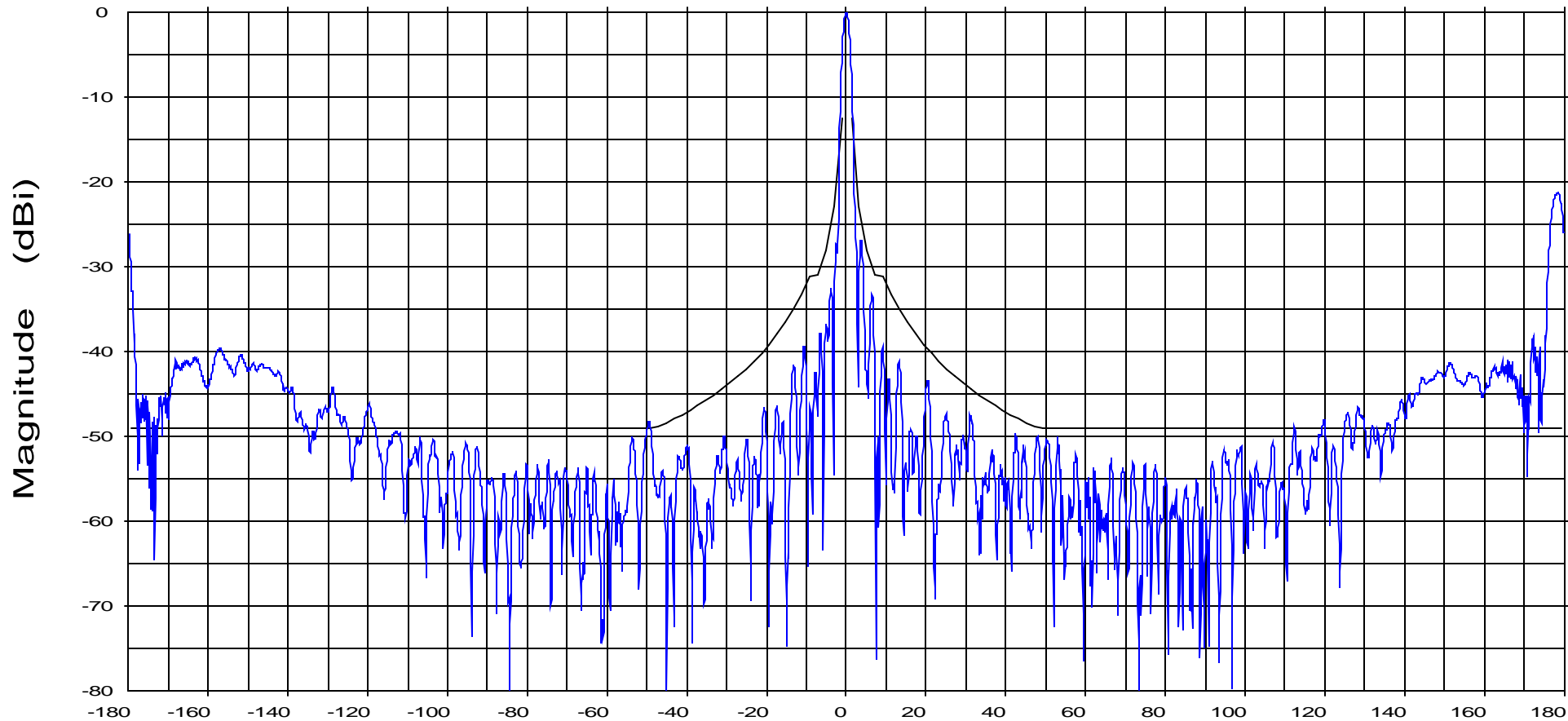
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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
1378 - 32.dat-ant_under_test —

Cal. file
1378 - 32.da

units
dBi

Azimuth (Deg)

Beam Peak
Deg -0.03
dB -0.05

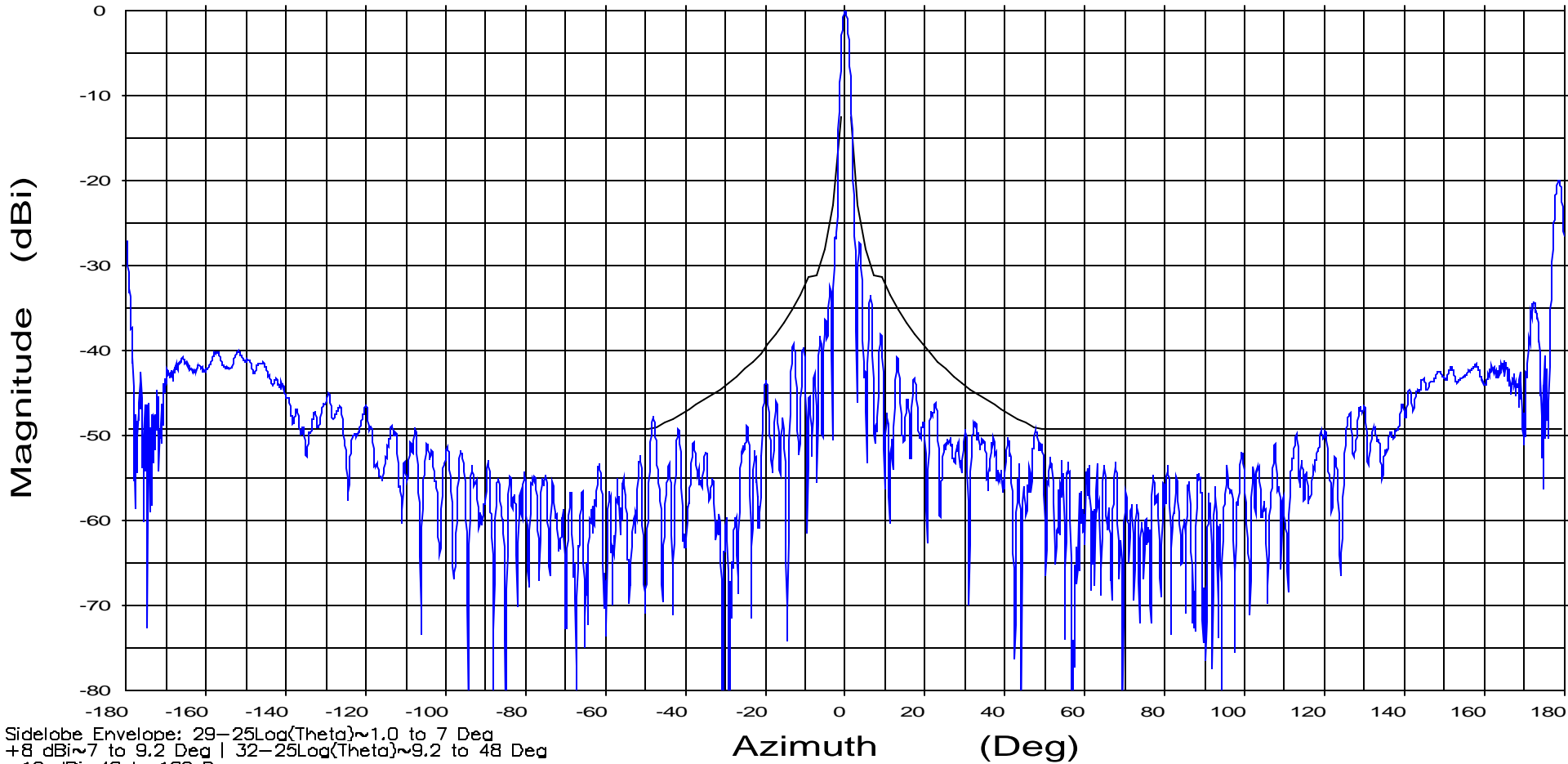
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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
1378 - 32.dat-ant_under_test

Cal. file
1378 - 32.da

units
dBi

Beam Peak
Deg dB
-0.03 -0.03

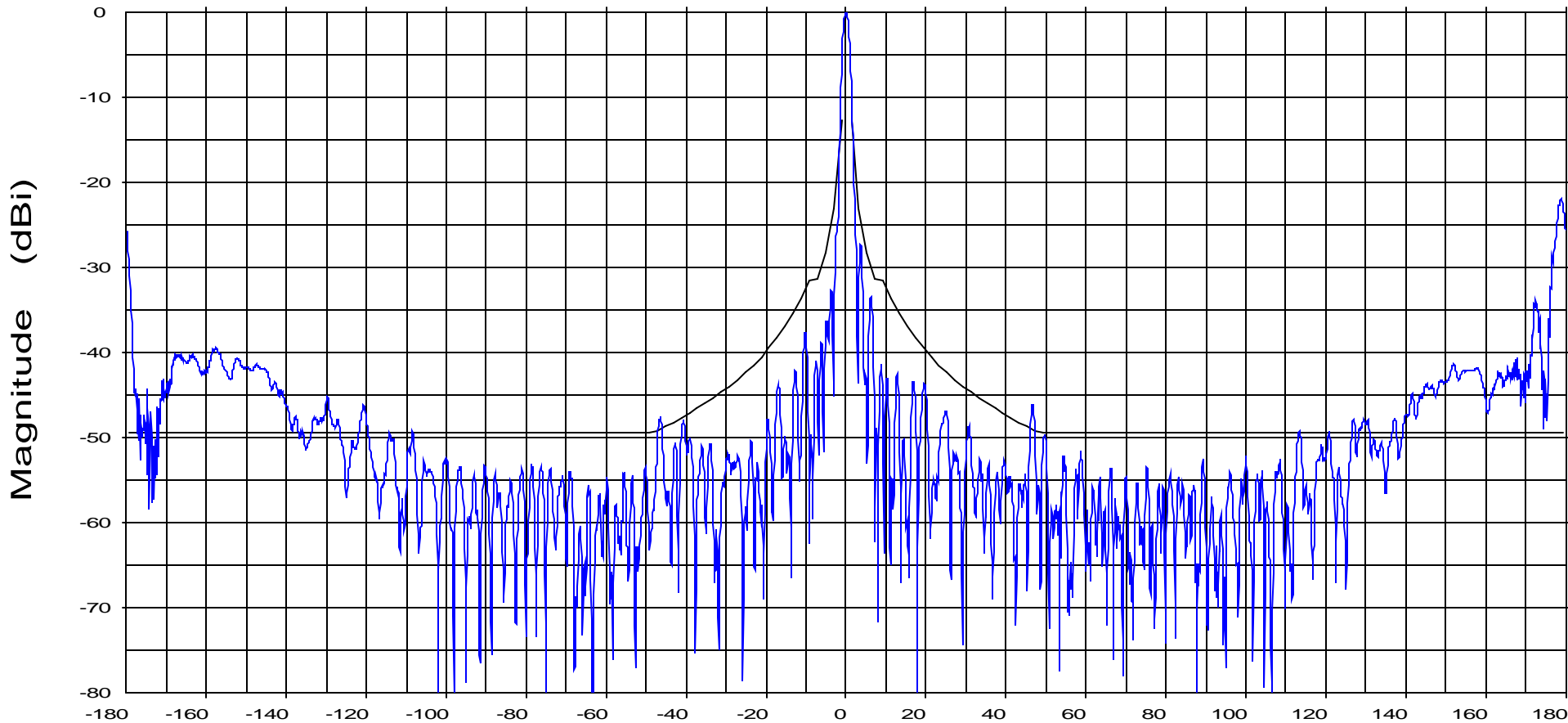
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



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
1378 - 32.dat-ant_under_test

Cal. file
1378 - 32.da

units
dBi

Azimuth (Deg)

Beam Peak
Deg -0.02
dB -0.03

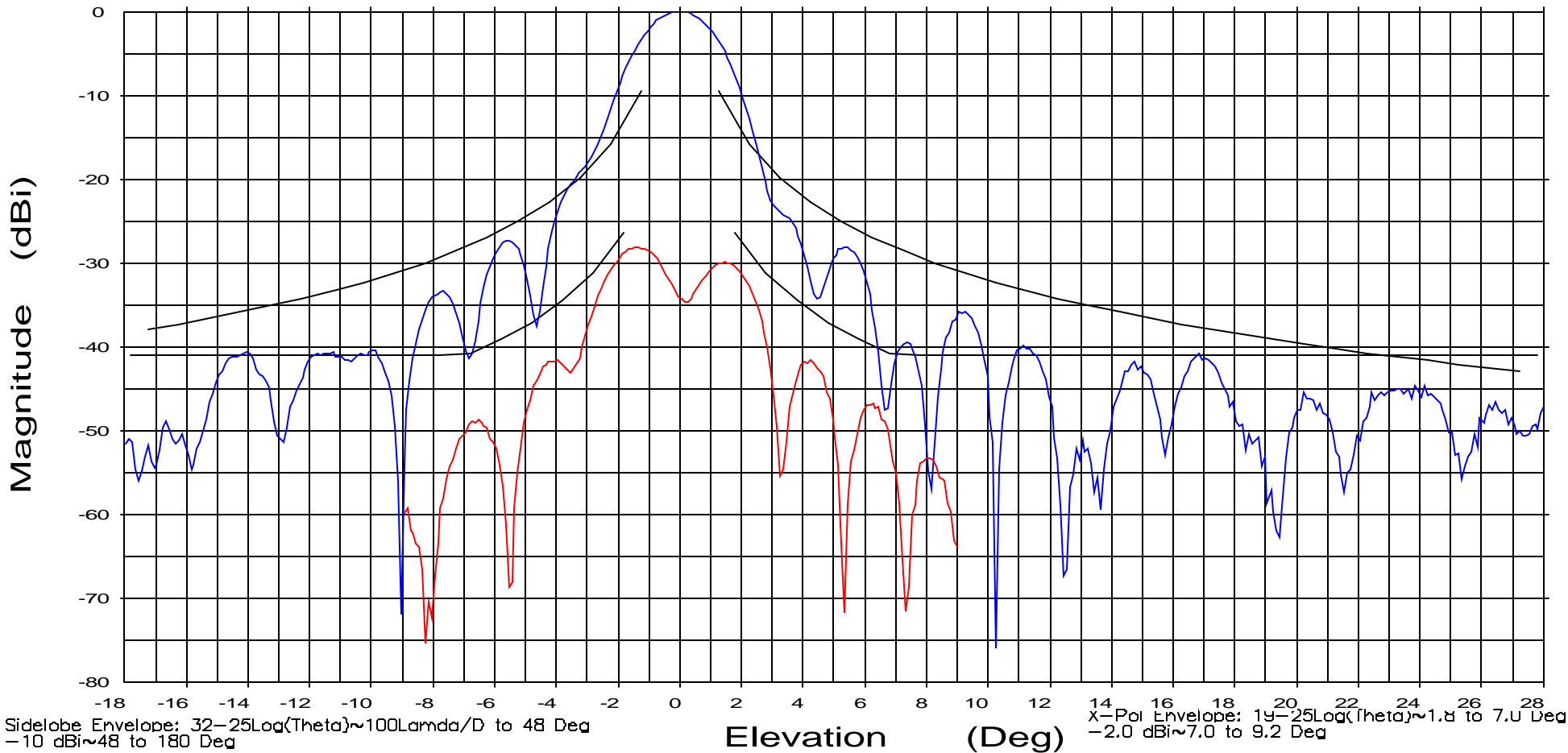
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Sidelobe Envelope: 32-25Log(Theta)~100Lamda/D 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

1378 - 33.dat-ant_under_test

1378 - 35.dat-ant_under_test

Cal. file

1378 - 33.da

1378 - 35.da

units

dBi

dBi

Beam Peak

Deg

-0.00

dB

0.01

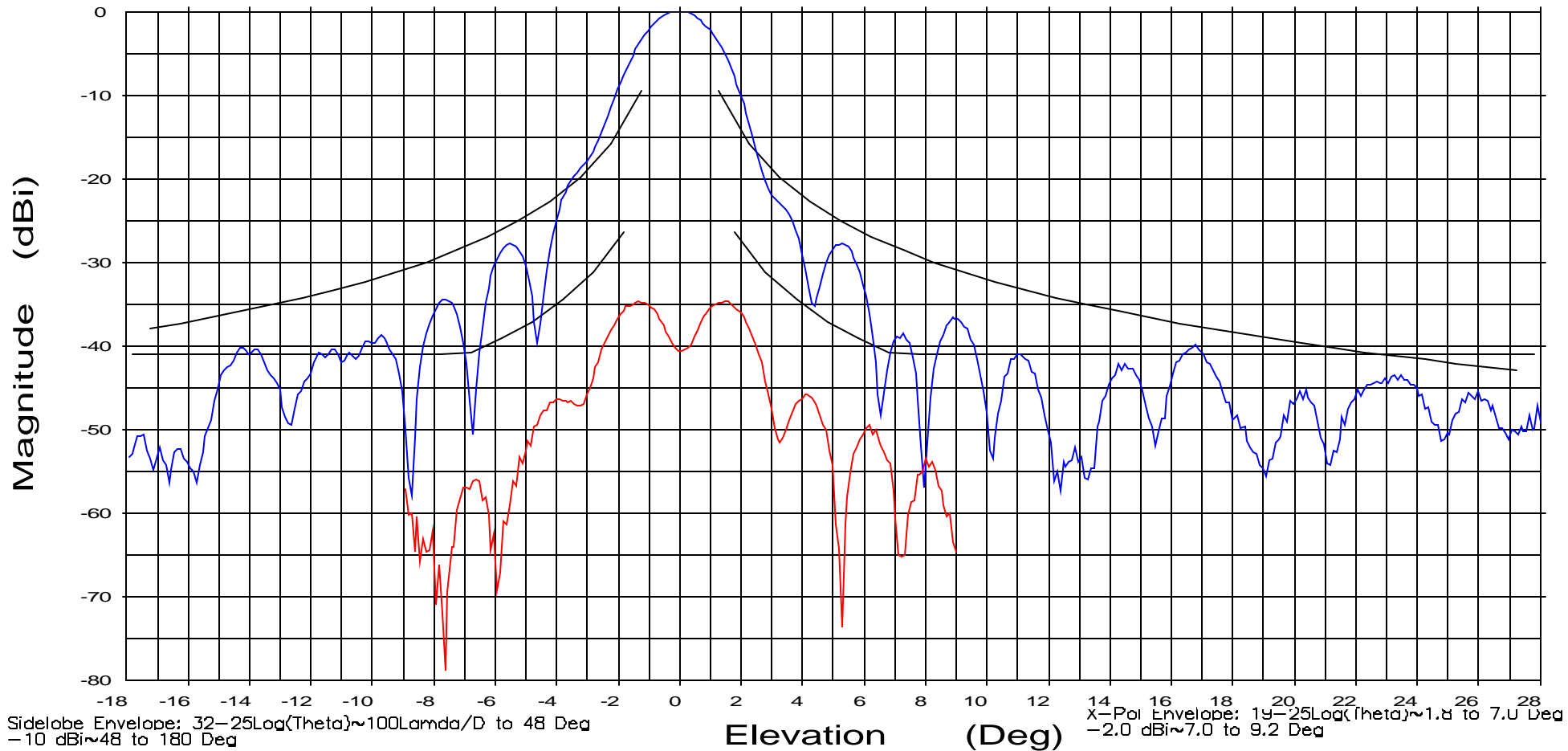
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

1378 - 33.dat-ant_under_test —

1378 - 35.dat-ant_under_test —

Cal. file

1378 - 33.da

1378 - 35.da

units

dBi

dBi

Beam Peak

Deg

-0.02

dB

0.01

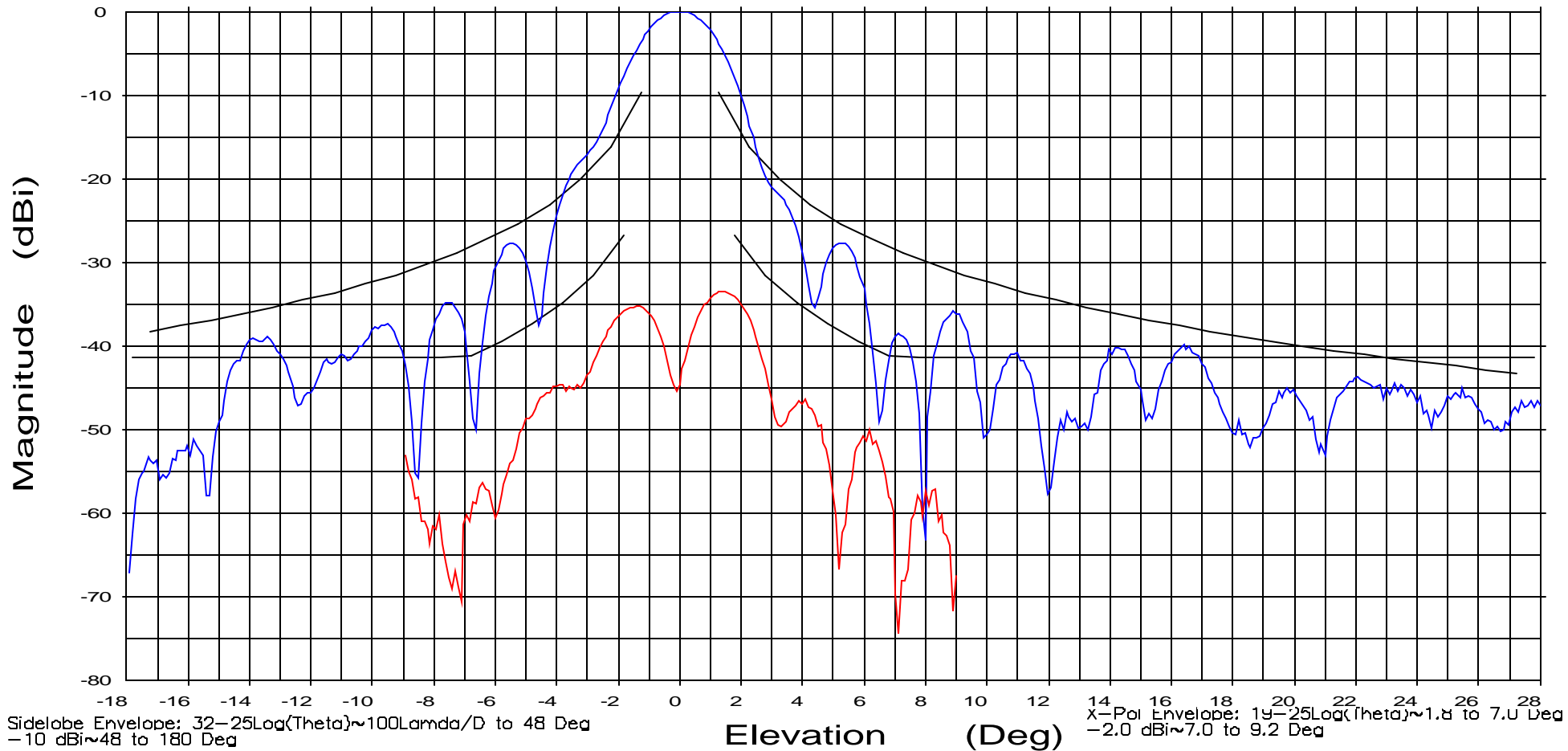
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

1378 - 33.dat-ant_under_test

Cal. file

1378 - 33.da

units

dBi

Beam Peak

Deg

-0.01

dB

0.02

1378 - 35.dat-ant_under_test

1378 - 35.da

dBi

Section V



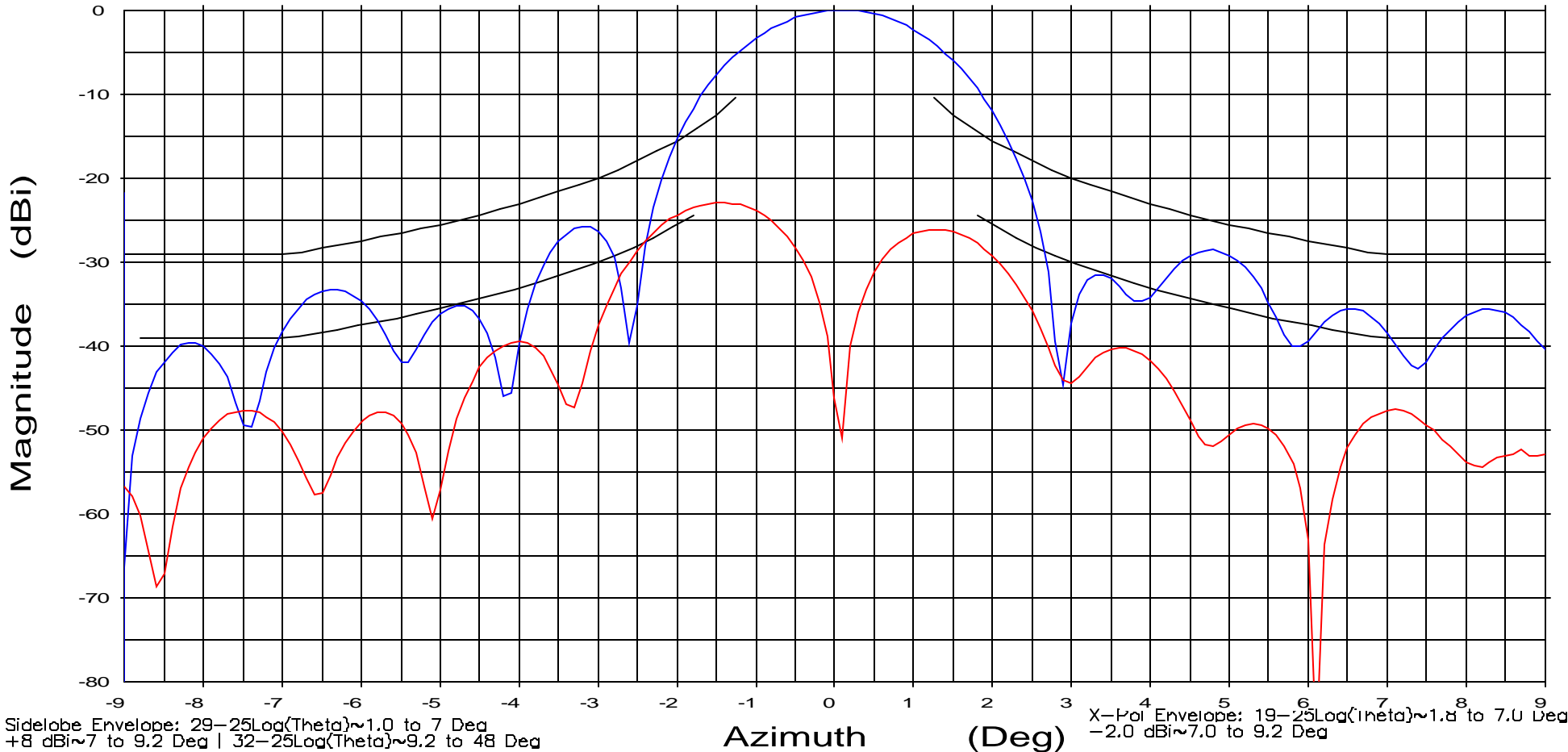
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



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

X-Pol Envelope: $19 - 25 \log(|\theta|) \sim 1.0$ to 7.0 Deg
 -2.0 dBi ~ 7.0 to 9.2 Deg

Overlays
 1378 - 37.dat-ant_under_test
 1378 - 39A.dat-ant_under_test

| Cal. file | units |
|--------------|-------|
| 1378 - 37.da | dBi |
| 1378 - 39A.d | dBi |

| Beam Peak | |
|-----------|-------|
| Deg | dB |
| 0.08 | -0.01 |

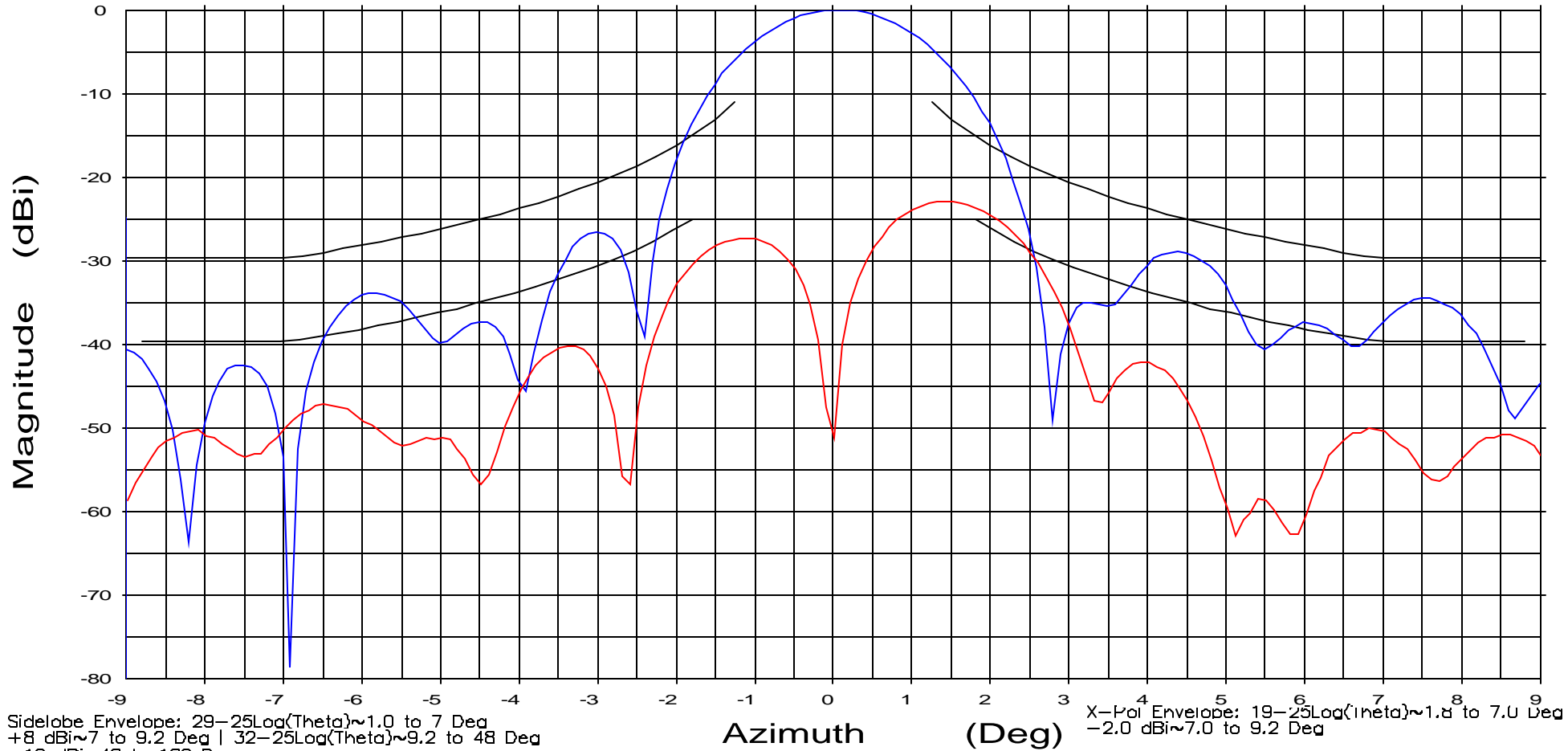
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



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

X-Pol Envelope: $19 - 25 \log(|\theta|) \sim 1.0$ to 7.0 Deg
 -2.0 dBi ~ 7.0 to 9.2 Deg

Overlays
 1378 - 37.dat-ant_under_test
 1378 - 39B.dat-ant_under_test

| Cal. file | units |
|--------------|-------|
| 1378 - 37.da | dBi |
| 1378 - 39B.d | dBi |

| Beam Peak | |
|-----------|------|
| Deg | dB |
| 0.08 | 0.01 |

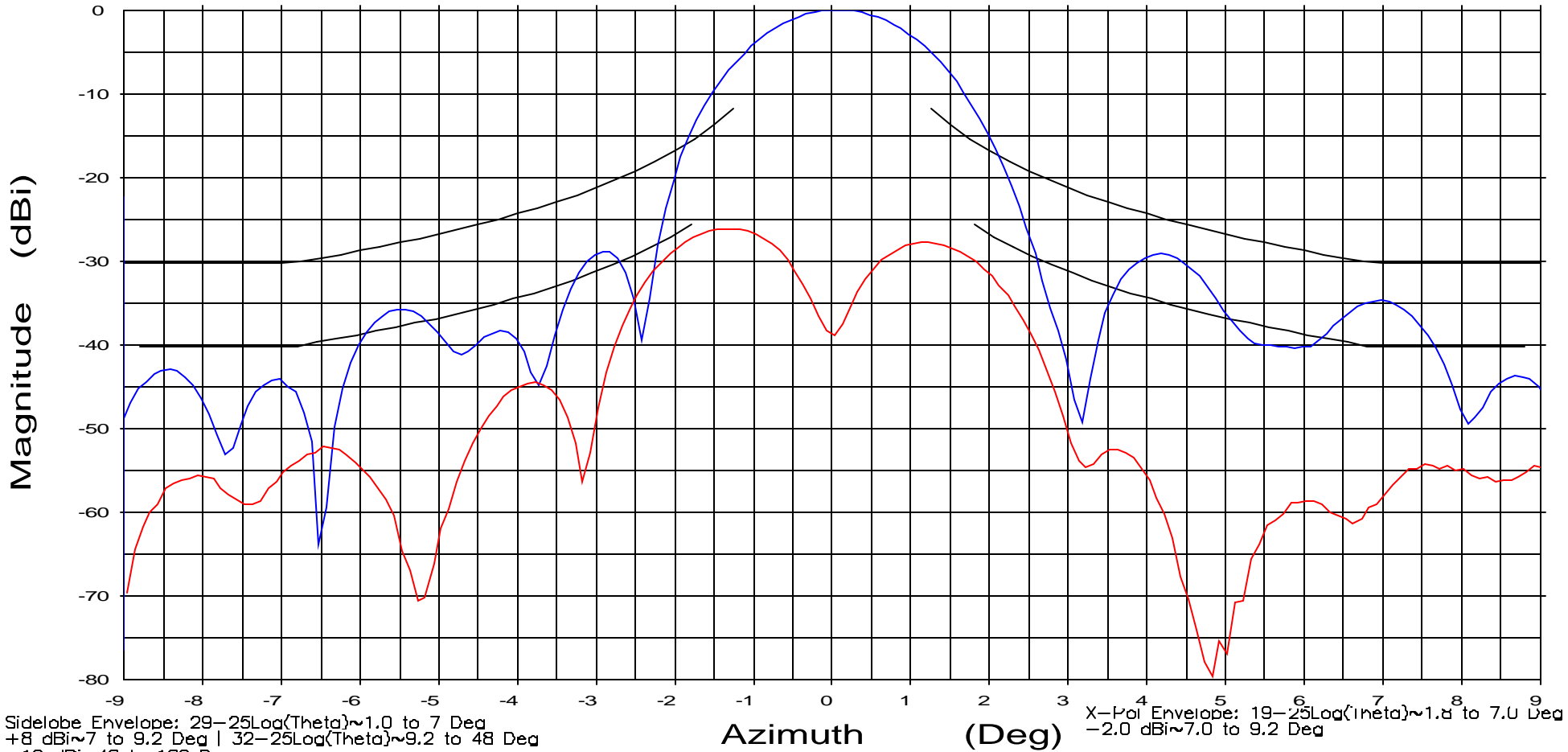
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



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

X-Pol Envelope: $19 - 25 \log(|\theta|) \sim 1.0$ to 7.0 Deg
 -2.0 dBi ~ 7.0 to 9.2 Deg

Overlays
 1378 - 37.dat-ant_under_test
 1378 - 39A.dat-ant_under_test

| Cal. file | units |
|--------------|-------|
| 1378 - 37.da | dBi |
| 1378 - 39A.d | dBi |

| Beam Peak | |
|-----------|------|
| Deg | dB |
| 0.07 | 0.01 |

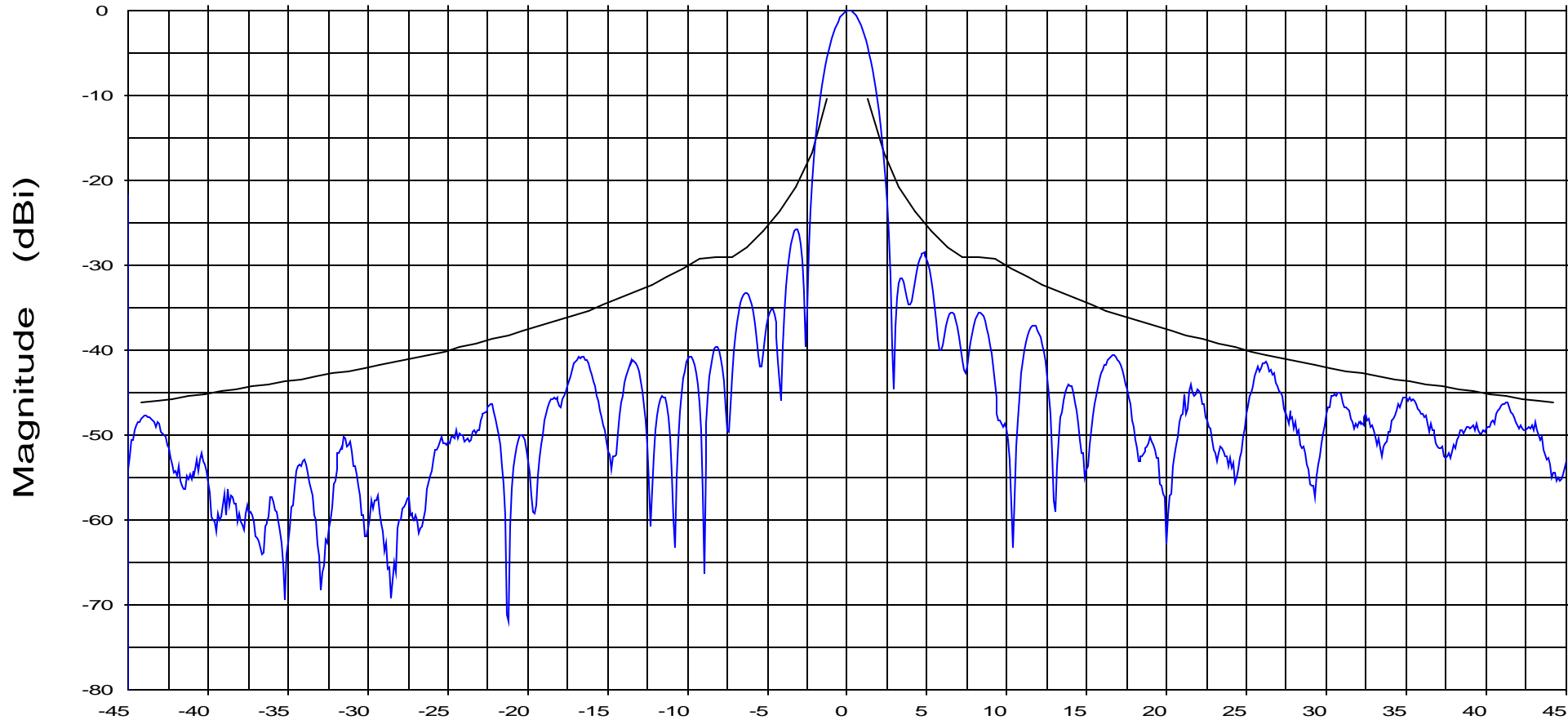
Operator: Keny Poovey

Ser. no.:

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

Azimuth (Deg)

Overlays
1378 - 37.dat-ant_under_test

Cal. file
1378 - 37.da

units
dBi

Beam Peak
Deg 0.08
dB -0.01

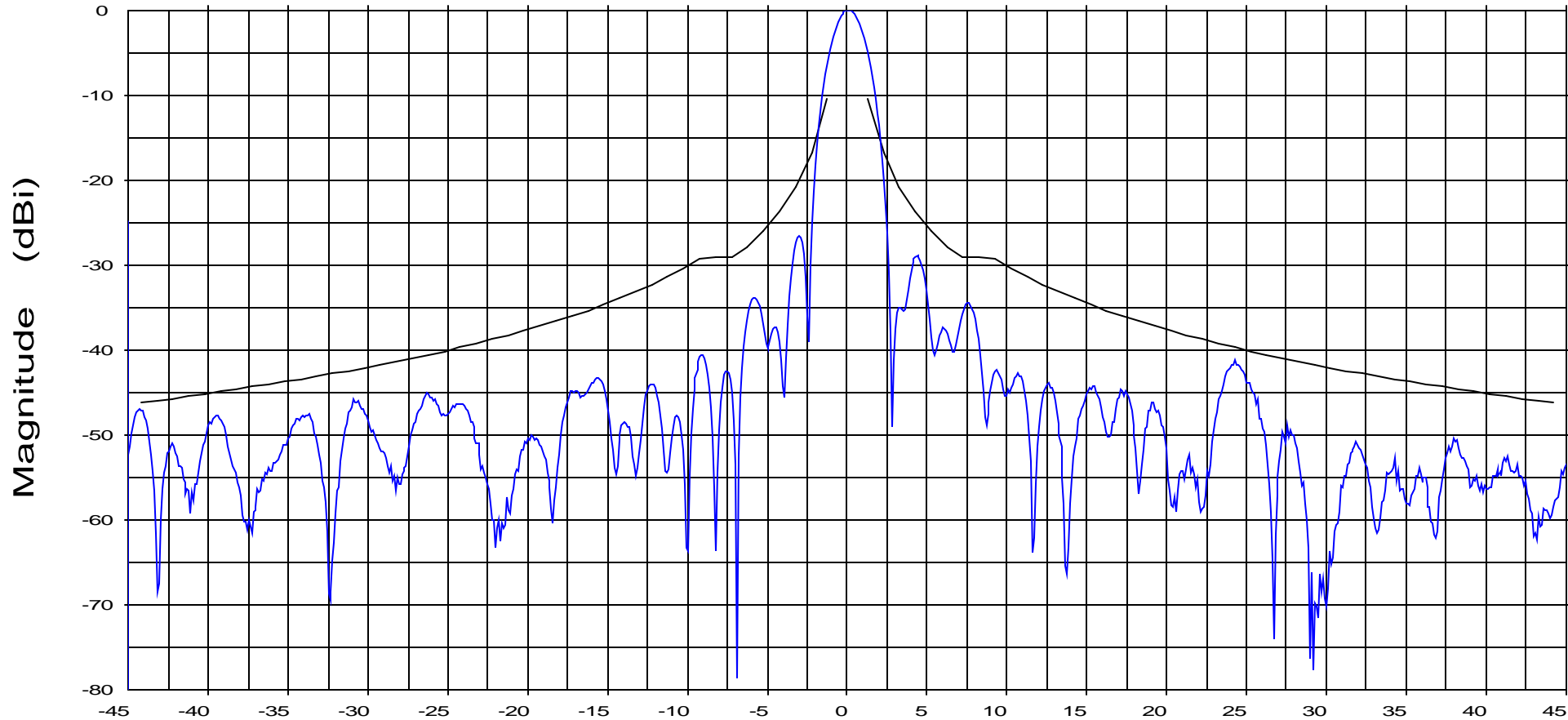
Operator: Keny Poovey

Ser. no.:

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

Azimuth (Deg)

Overlays
1378 - 37.dat-ant_under_test

Cal. file
1378 - 37.da

units
dBi

Beam Peak
Deg 0.08
dB 0.01

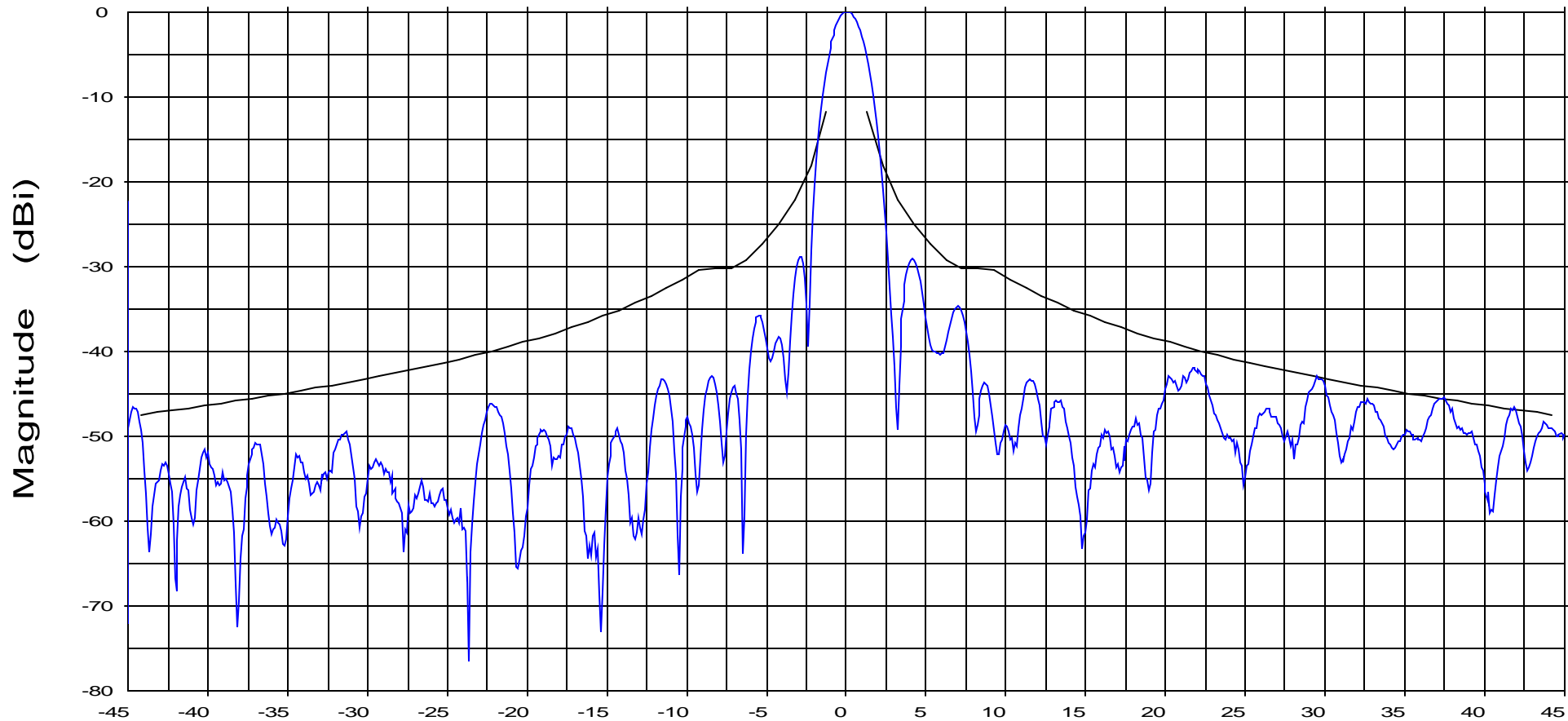
Operator: Keny Poovey

Ser. no.:

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
1378 - 37.dat-ant_under_test —

Cal. file
1378 - 37.da

units
dBi

Azimuth (Deg)

Beam Peak
Deg 0.07
dB 0.01

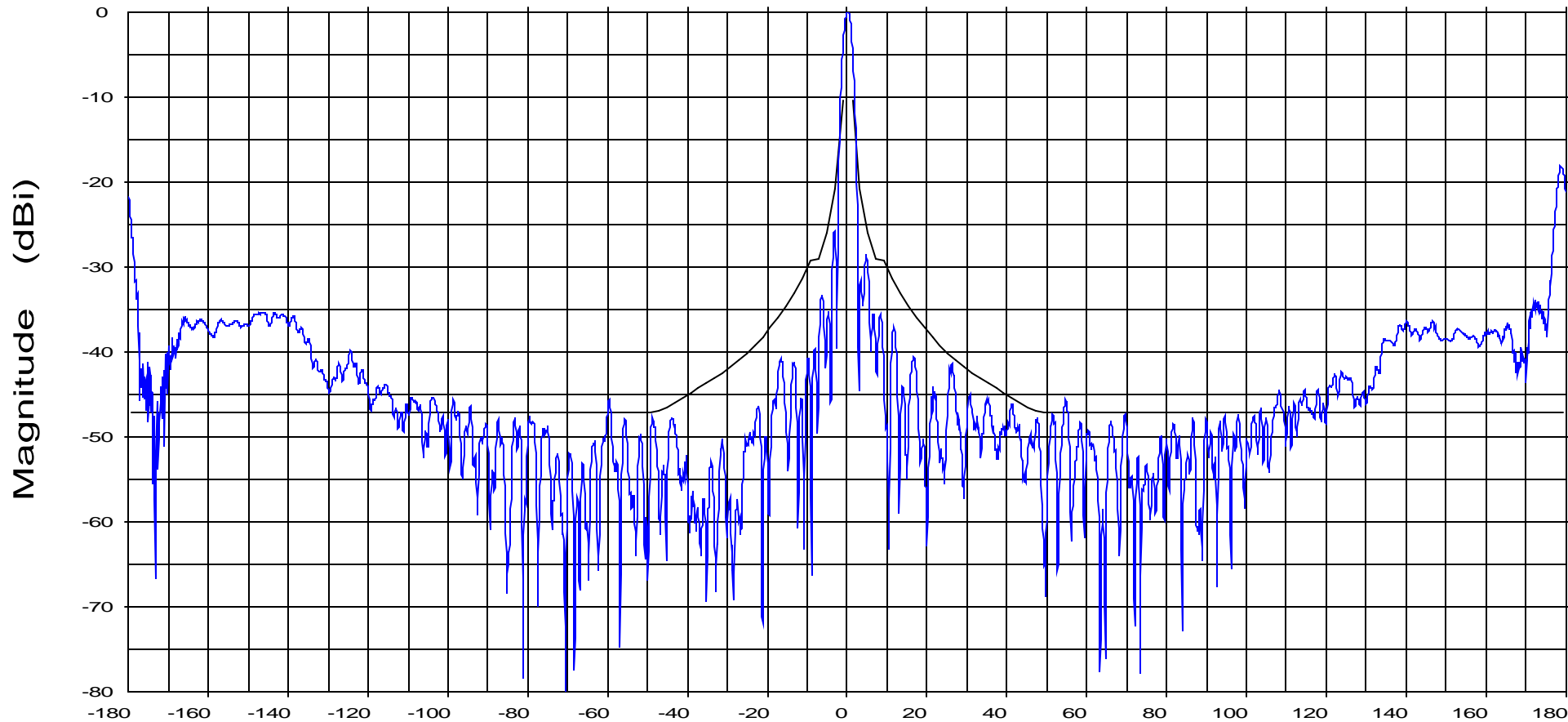
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



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

Azimuth (Deg)

Overlays
1378 - 37.dat-ant_under_test

Cal. file
1378 - 37.da

units
dBi

Beam Peak
Deg 0.08
dB -0.01

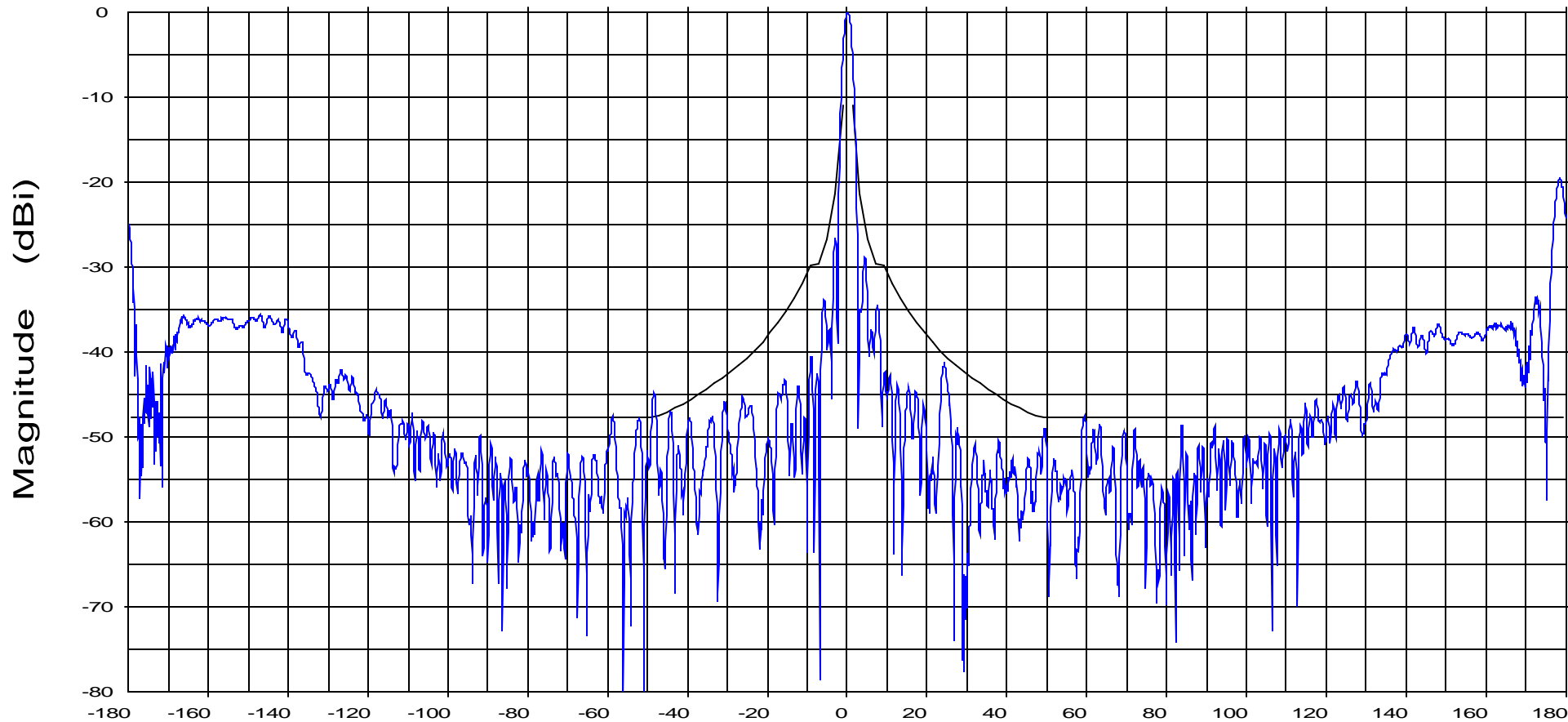
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



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

Overlays
1378 - 37.dat-ant_under_test

Cal. file
1378 - 37.da

units
dBi

Azimuth (Deg)

Beam Peak
Deg 0.08
dB 0.01

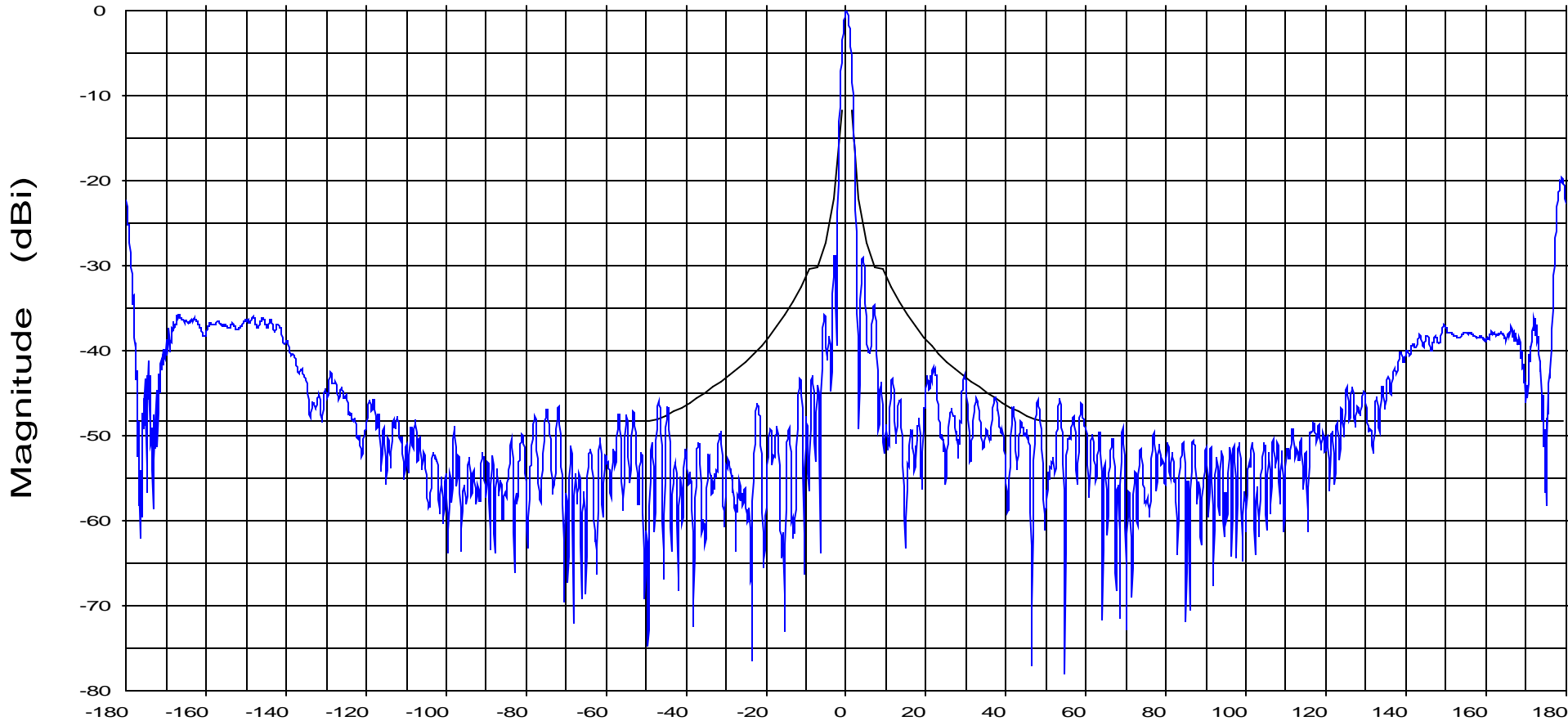
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



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

Azimuth (Deg)

Overlays
1378 - 37.dat-ant_under_test

Cal. file
1378 - 37.da

units
dBi

Beam Peak
Deg 0.07
dB 0.01

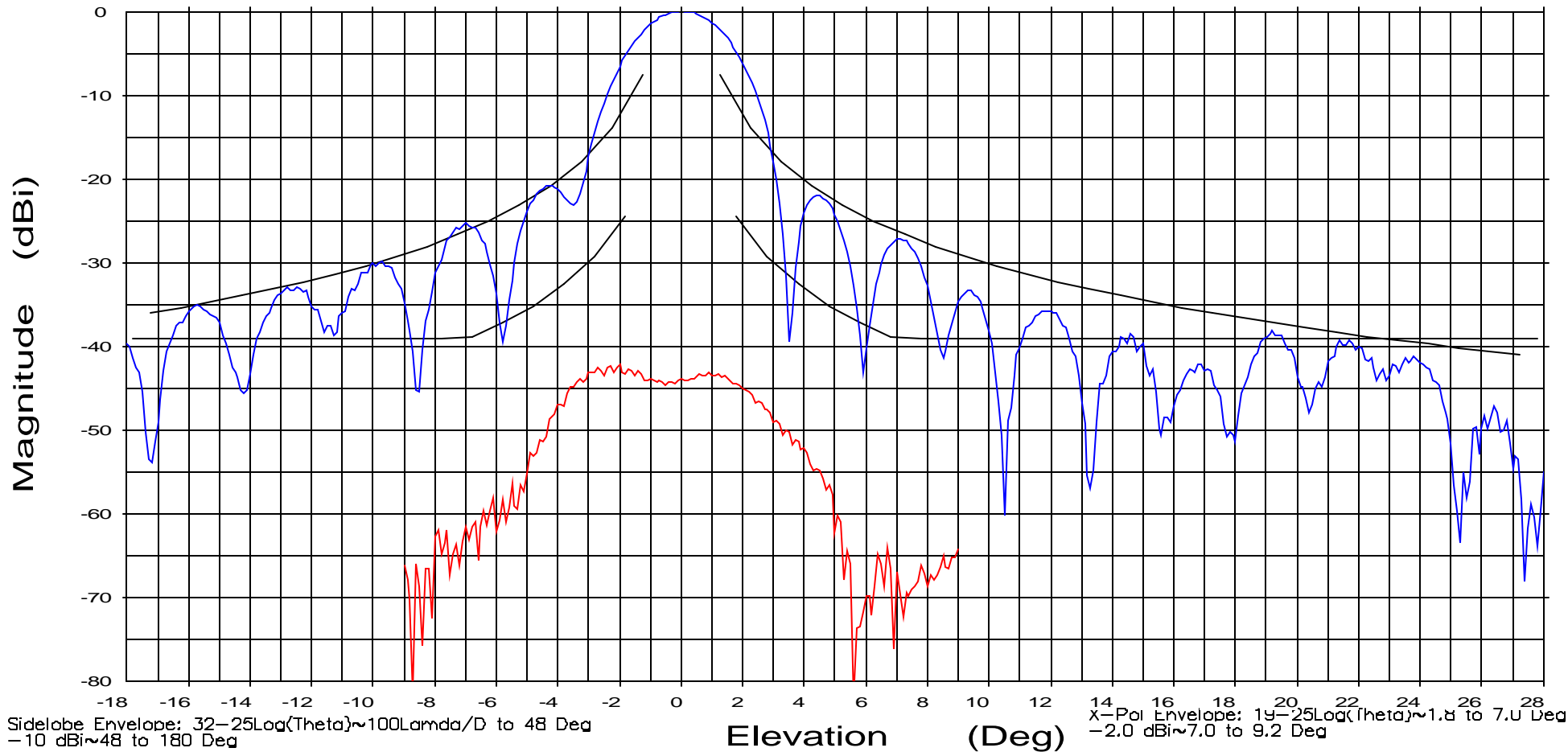
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays

1378 - 38.dat-ant_under_test — (blue line)
 1378 - 40A.dat-ant_under_test — (red line)

Cal. file

1378 - 38.da
 1378 - 40A.d

units

dBi
 dBi

Beam Peak

Deg dB
 0.04 0.02

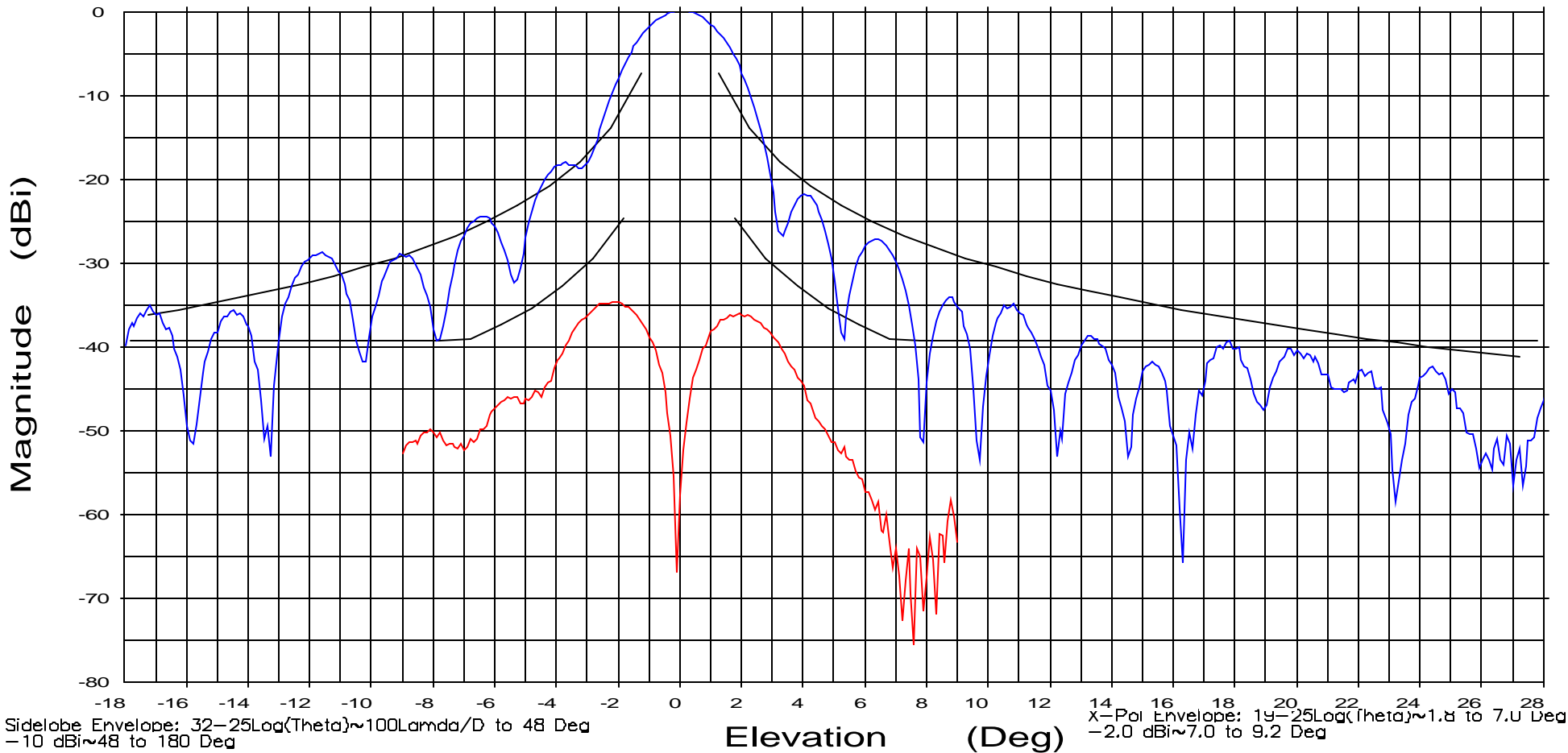
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays

1378 - 38.dat-ant_under_test — blue line
 1378 - 40B.dat-ant_under_test — red line

Cal. file

1378 - 38.da
 1378 - 40B.d

units

dBi
 dBi

Beam Peak

| Deg | dBi |
|------|------|
| 0.06 | 0.11 |

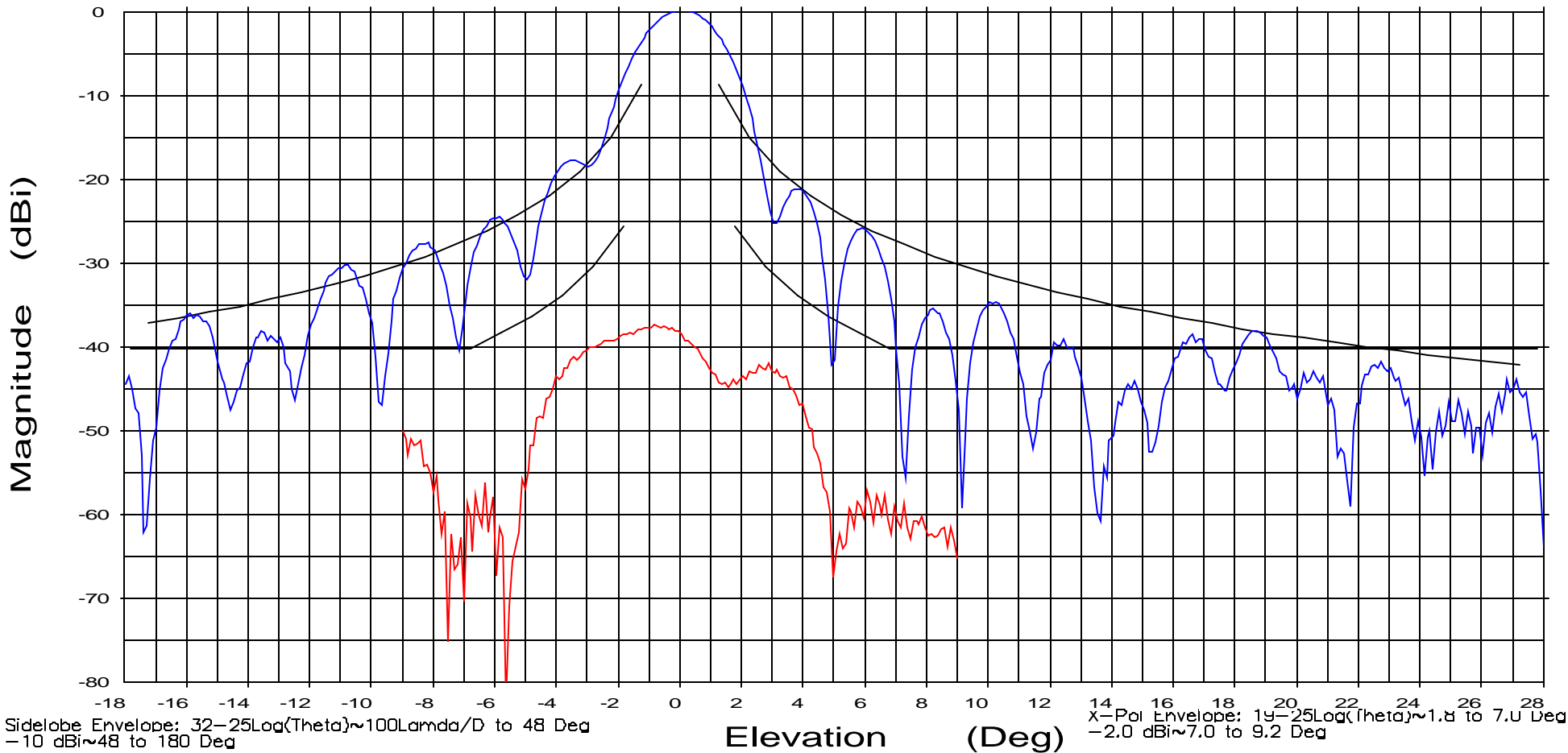
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays

1378 - 38.dat-ant_under_test — blue
1378 - 40A.dat-ant_under_test — red

Cal. file

1378 - 38.da
1378 - 40A.d

units

dBi
dBi

Elevation (Deg)

Beam Peak

Deg dB
0.07 0.11

Section VI



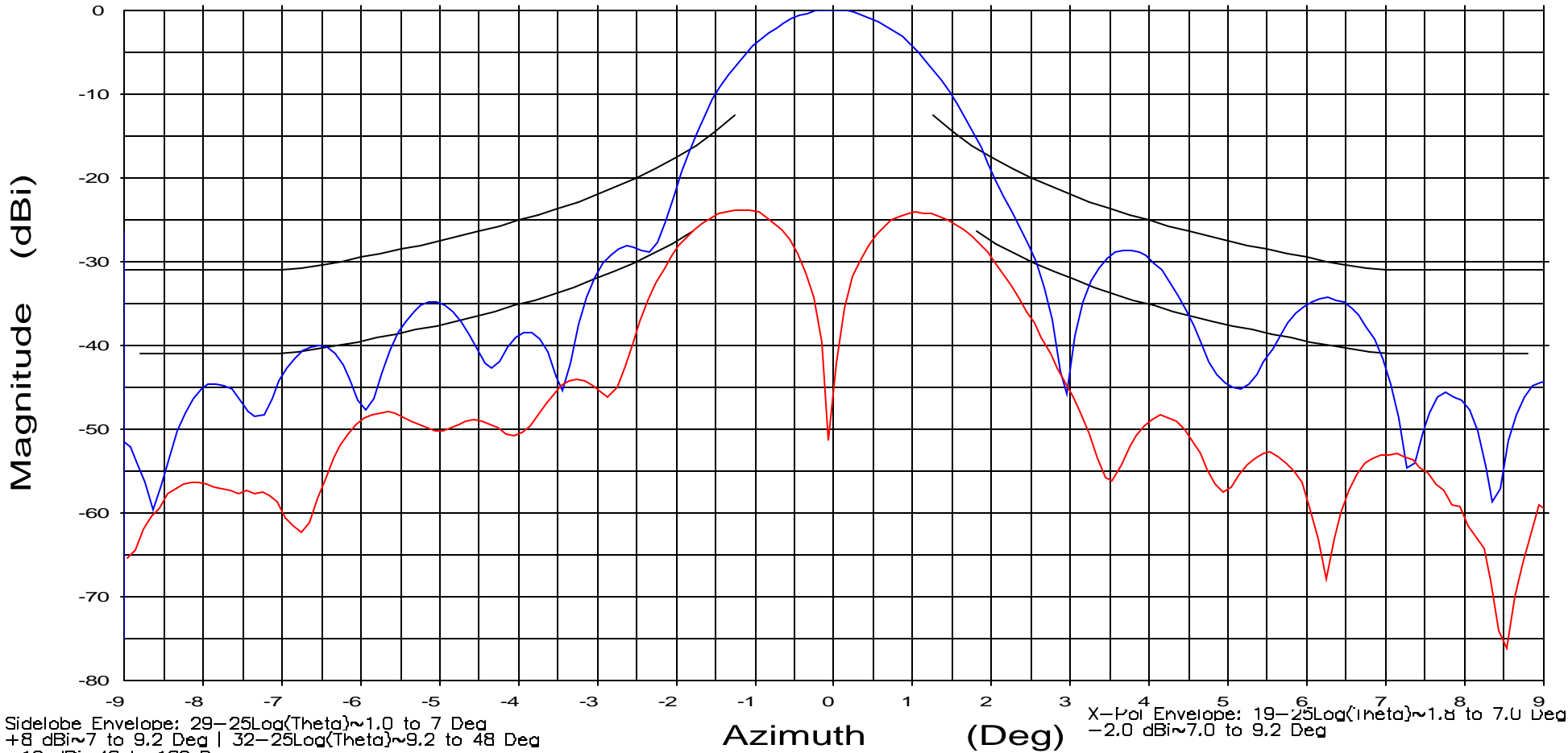
Operator: Keny Poovey

Ser. no.:

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

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

Overlays
 1378 - 37.dat-ant_under_test
 1378 - 39A.dat-ant_under_test

| | |
|--------------|-------|
| Cal. file | units |
| 1378 - 37.da | dBi |
| 1378 - 39A.d | dBi |

| | | |
|-----------|------|----|
| Beam Peak | Deg | dB |
| -0.02 | 0.00 | |

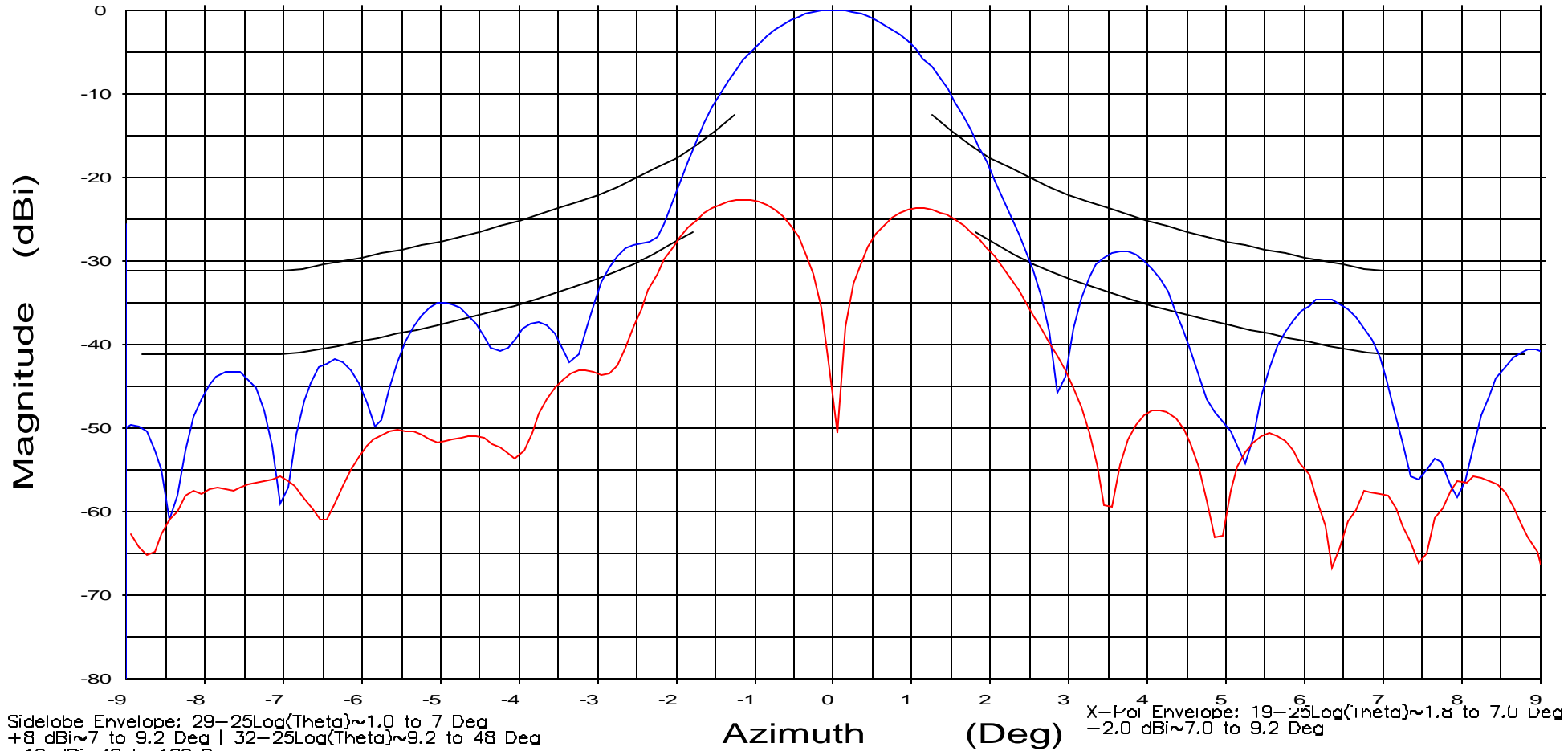
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



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

X-Pol Envelope: $19 - 25 \log(|\theta|) \sim 1.0$ to 7.0 Deg
 -2.0 dBi ~ 7.0 to 9.2 Deg

Overlays
 1378 - 37.dat-ant_under_test — blue line
 1378 - 39A.dat-ant_under_test — red line

| Cal. file | units |
|--------------|-------|
| 1378 - 37.da | dBi |
| 1378 - 39A.d | dBi |

| Beam Peak | |
|-----------|-------|
| Deg | dB |
| 0.01 | -0.01 |

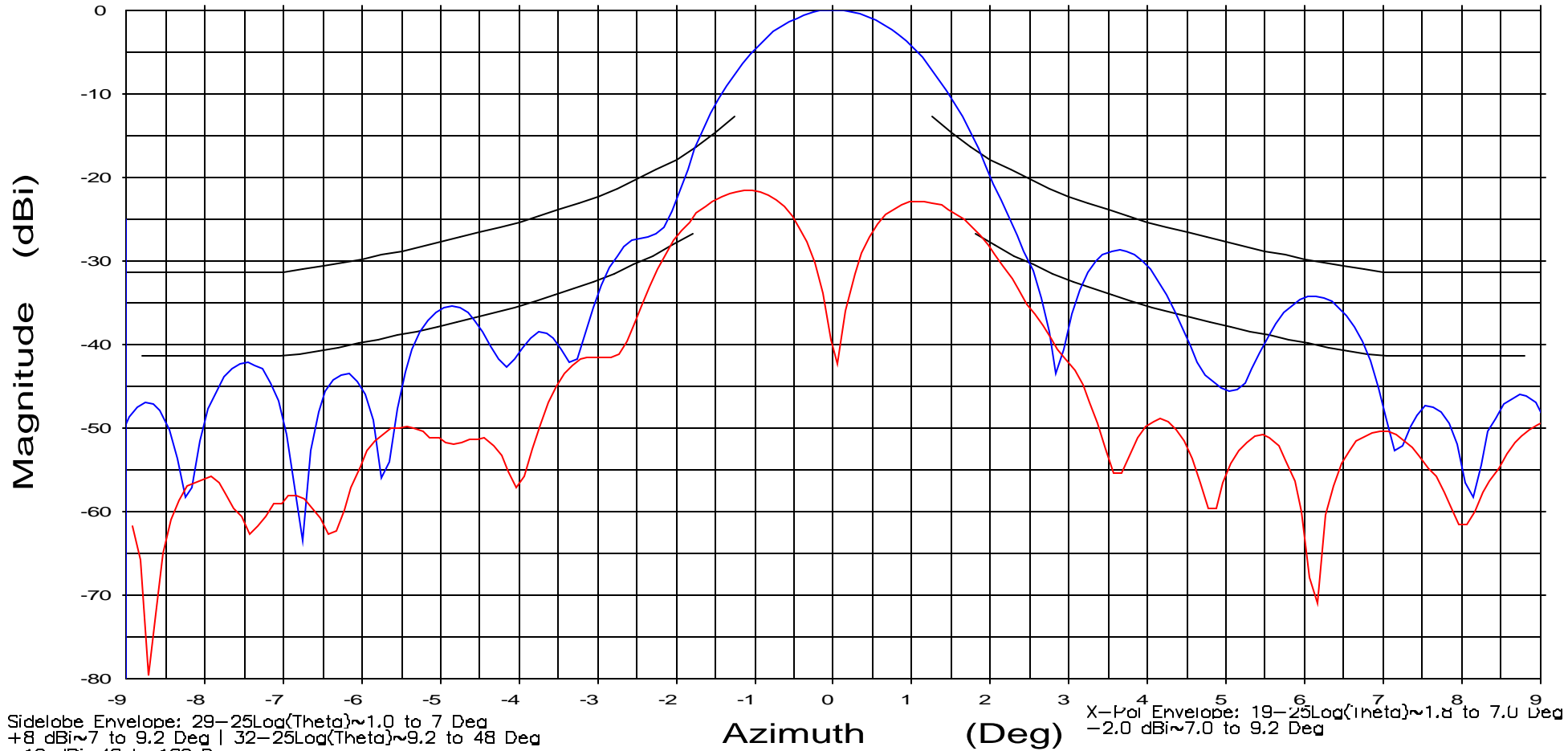
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



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

X-Pol Envelope: $19 - 25 \log(|\theta|) \sim 1.0$ to 7.0 Deg
 -2.0 dBi ~ 7.0 to 9.2 Deg

Overlays
 1378 - 37.dat-ant_under_test
 1378 - 39A.dat-ant_under_test

| Cal. file | units |
|--------------|-------|
| 1378 - 37.da | dBi |
| 1378 - 39A.d | dBi |

Beam Peak

| Deg | dB |
|------|-------|
| 0.01 | -0.00 |

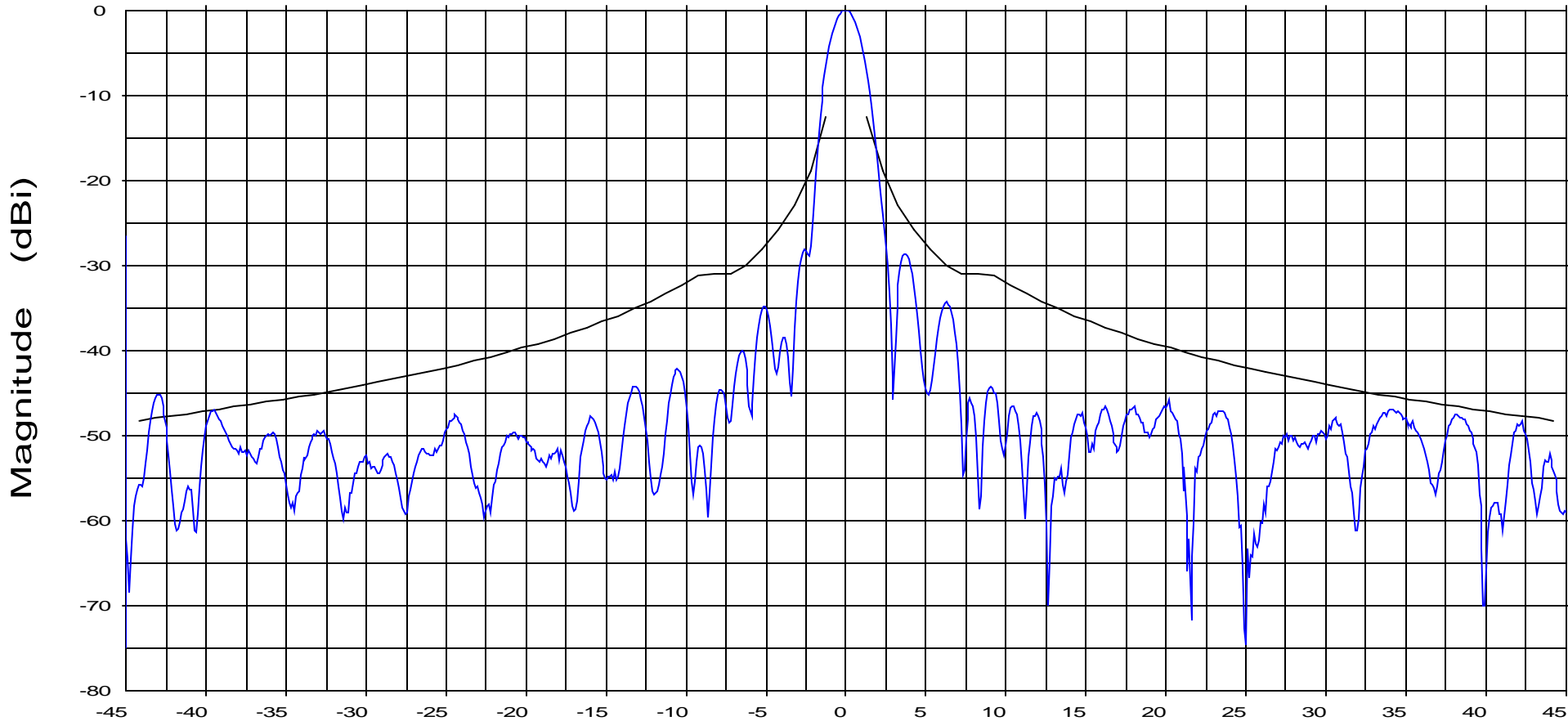
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



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

Azimuth (Deg)

Overlays
1378 - 37.dat-ant_under_test

Cal. file
1378 - 37.da

units
dBi

Beam Peak
Deg dB
-0.02 0.00

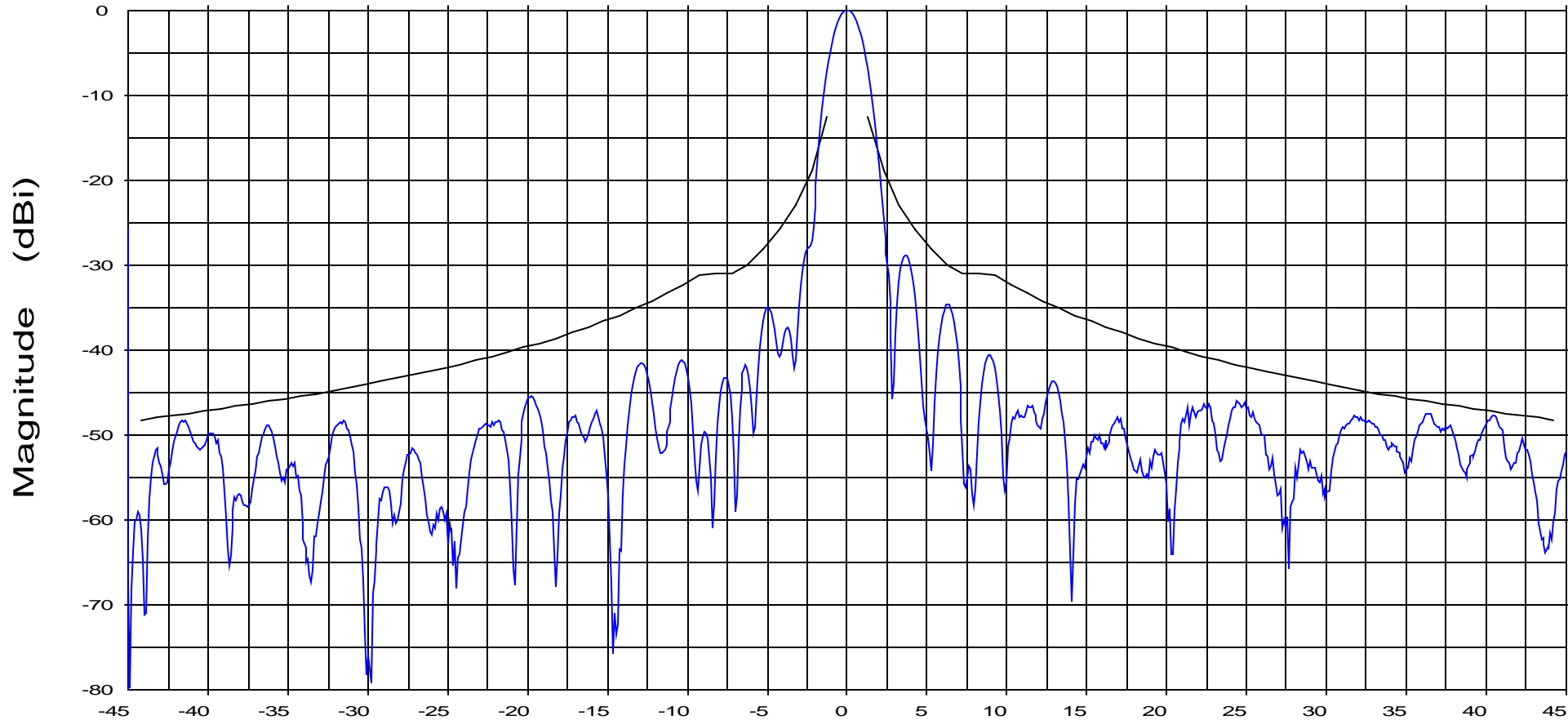
Operator: Keny Poovey

Ser. no.:

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
1378 - 37.dat-ant_under_test —

Cal. file
1378 - 37.da

units
dBi

Azimuth (Deg)

Beam Peak
Deg 0.01
dB -0.01

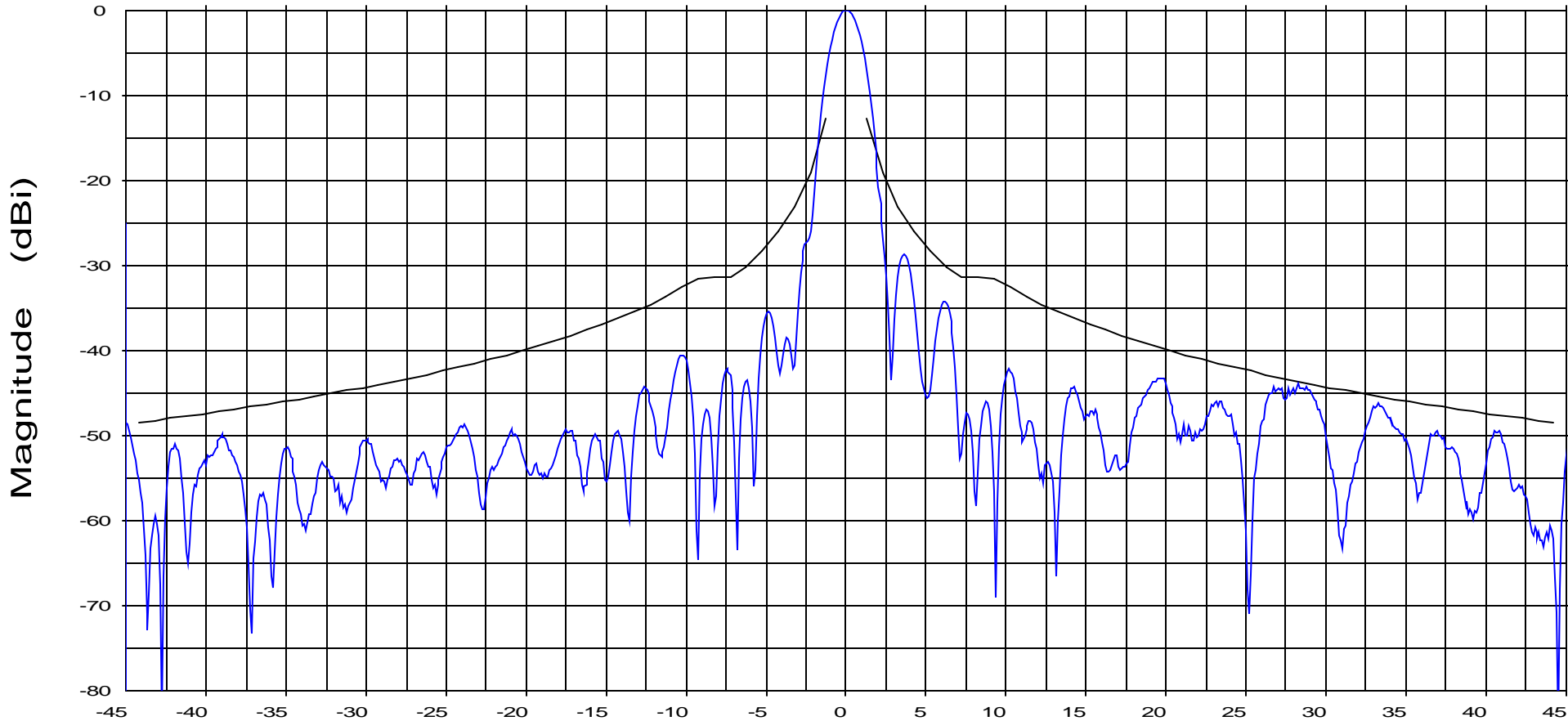
Operator: Keny Poovey

Ser. no.:

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
1378 - 37.dat-ant_under_test —

Cal. file
1378 - 37.da

units
dBi

Azimuth (Deg)

Beam Peak
Deg 0.01
dB -0.00

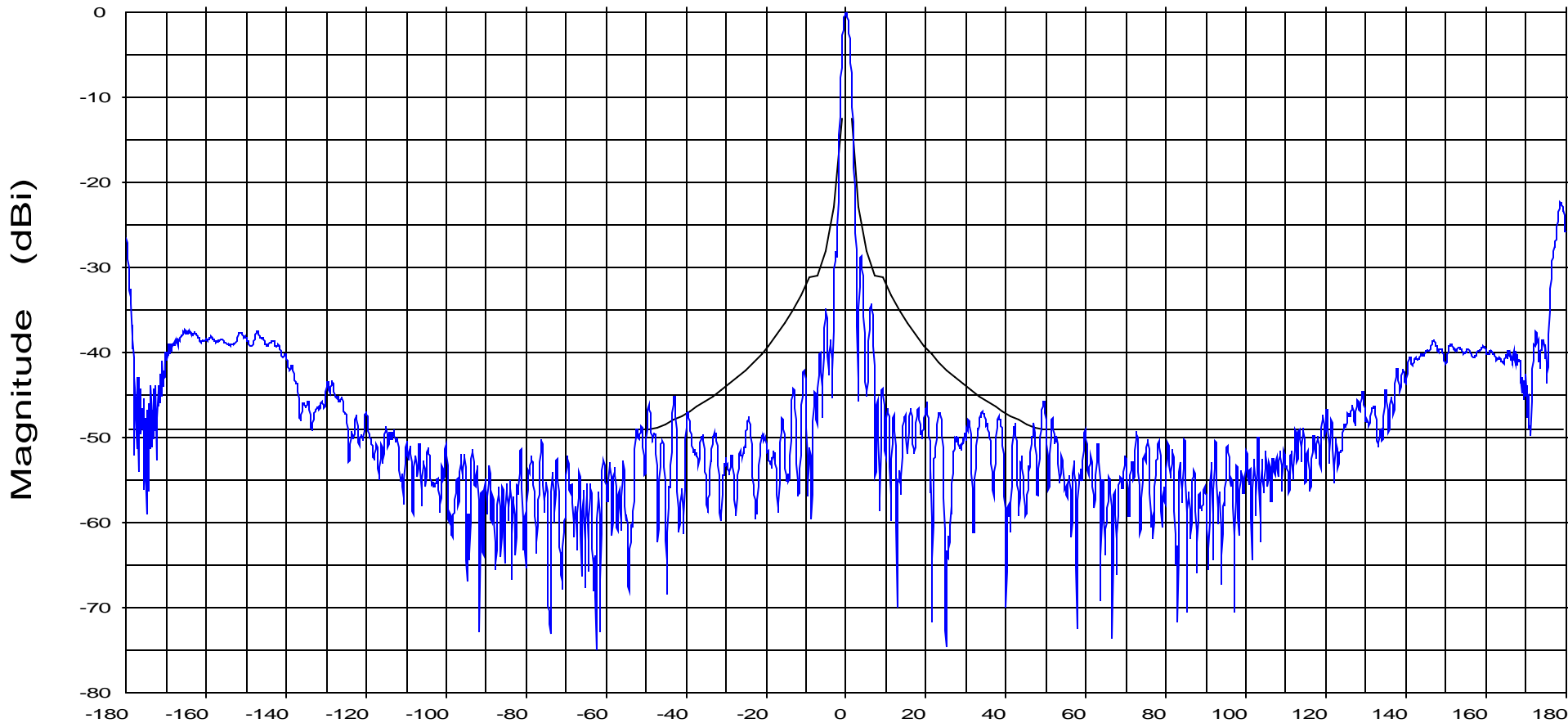
Operator: Keny Poovey

Ser. no.:

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
1378 - 37.dat-ant_under_test —

Cal. file
1378 - 37.da

units
dBi

Azimuth (Deg)

Beam Peak
Deg -0.02
dB 0.00

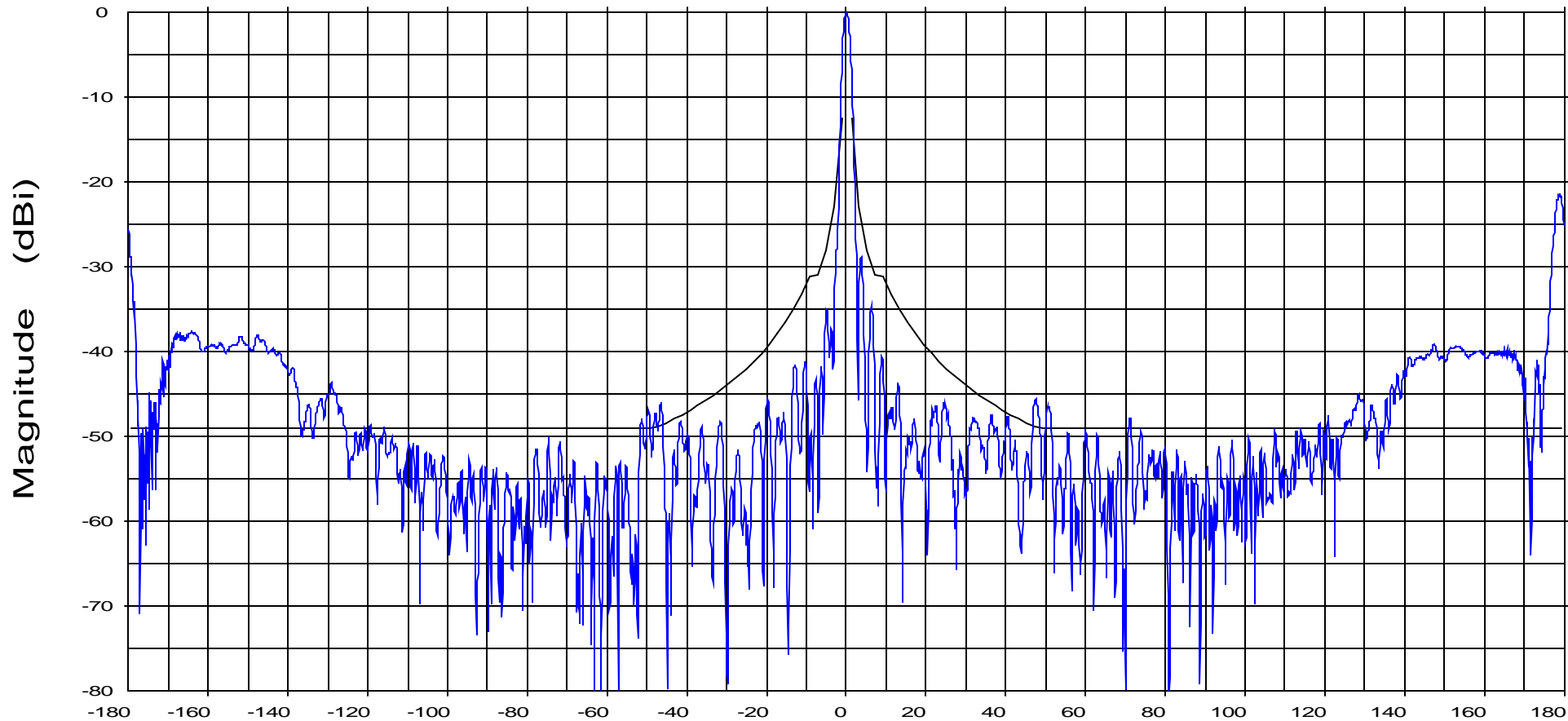
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



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

Azimuth (Deg)

Overlays
1378 - 37.dat-ant_under_test

Cal. file
1378 - 37.da

units
dBi

Beam Peak
Deg 0.01
dB -0.01

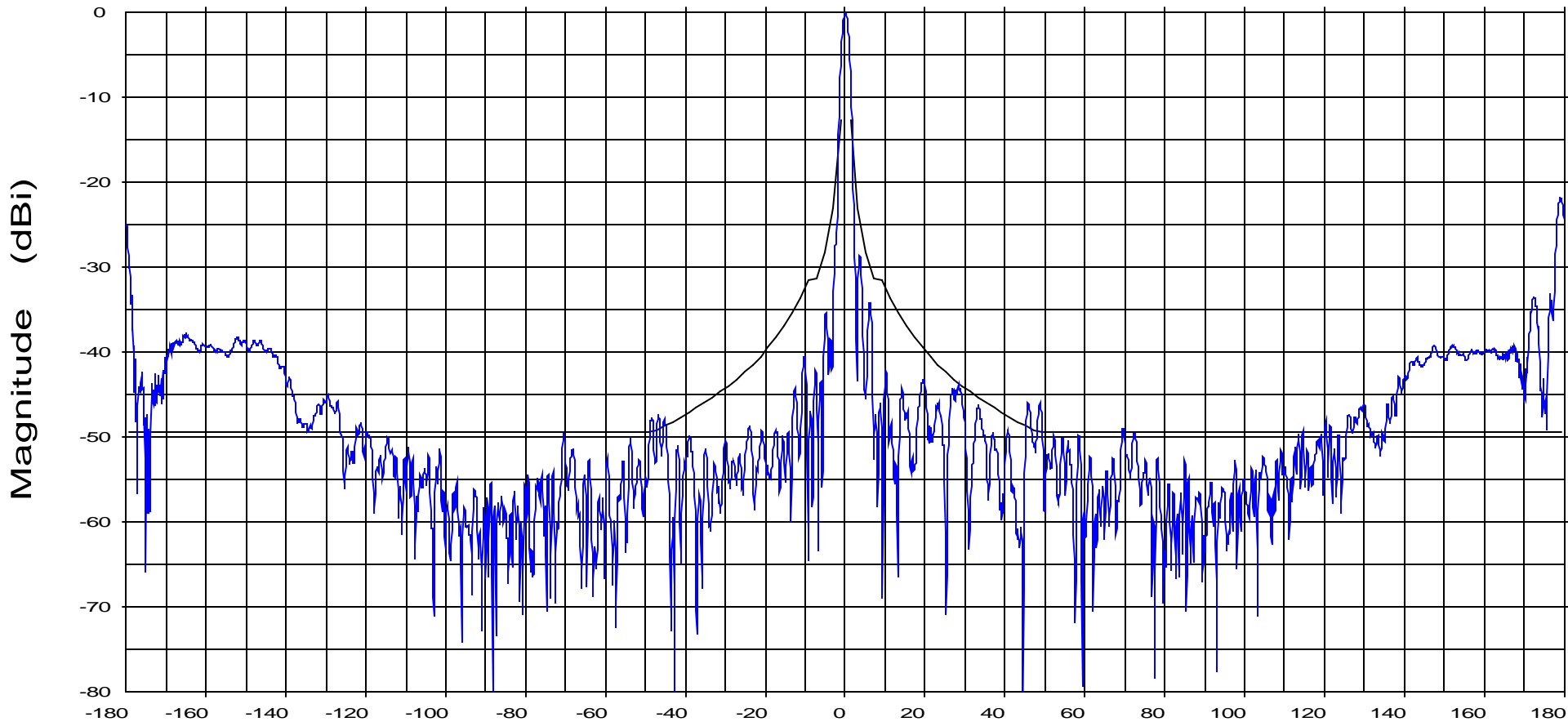
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



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

Azimuth (Deg)

Overlays
1378 - 37.dat-ant_under_test

Cal. file
1378 - 37.da

units
dBi

Beam Peak
Deg 0.01
dB -0.00

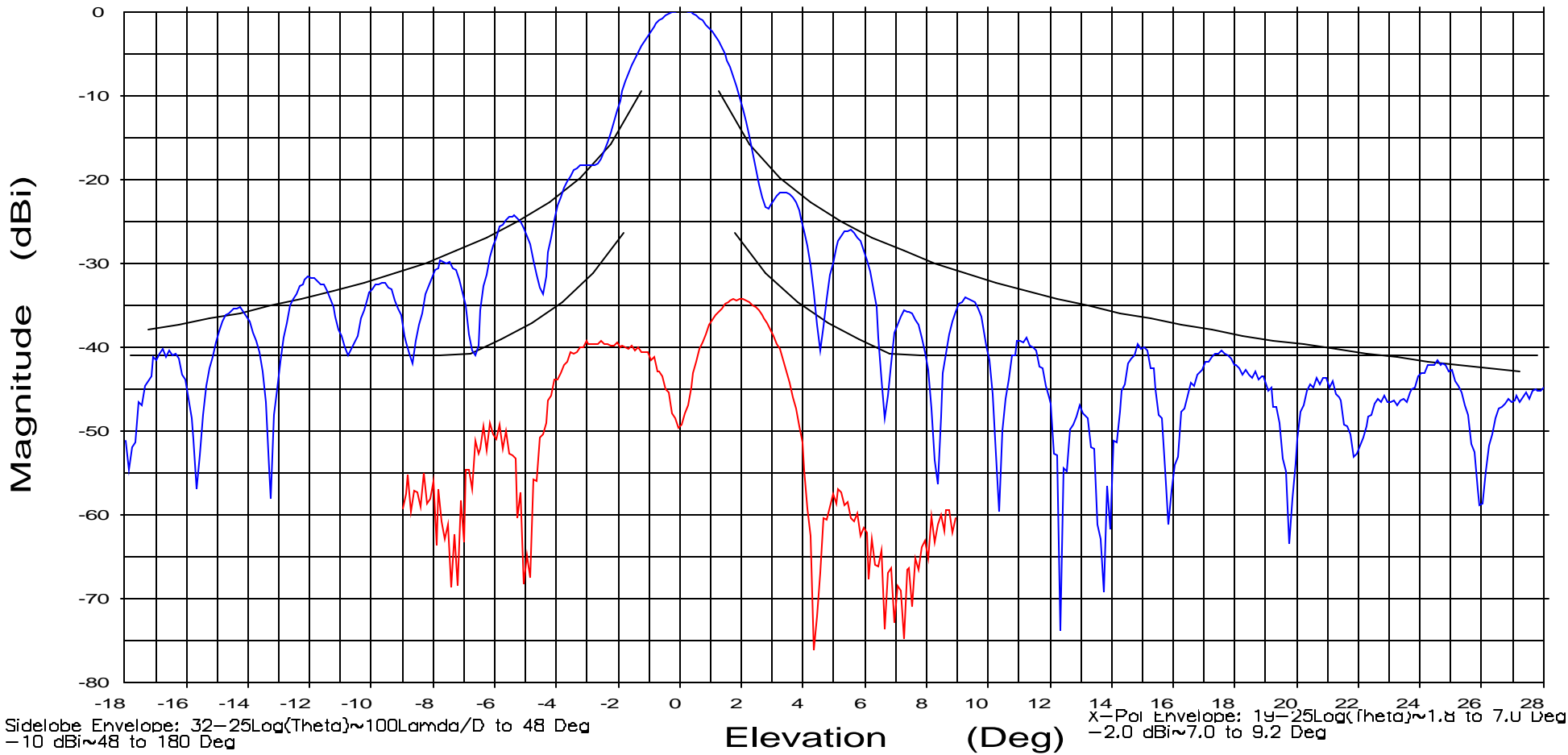
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays

1378 - 38.dat-ant_under_test

1378 - 40A.dat-ant_under_test

Cal. file

1378 - 38.da

1378 - 40A.d

units

dBi

dBi

Beam Peak

Deg

0.04

dB

0.05

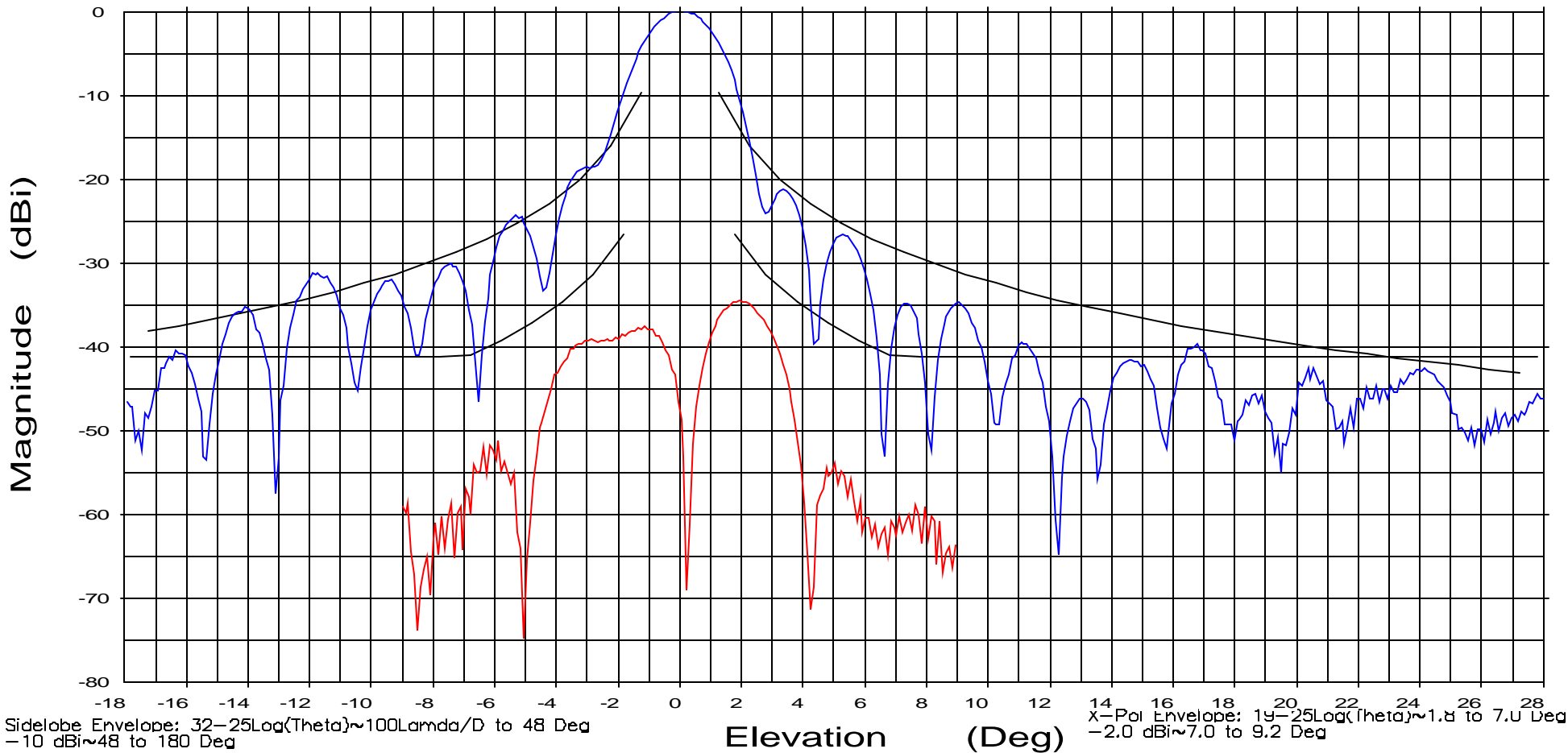
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays

1378 - 38.dat-ant_under_test

1378 - 40A.dat-ant_under_test

Cal. file

1378 - 38.da

1378 - 40A.d

units

dBi

dBi

Beam Peak

Deg

0.05

dB

0.05

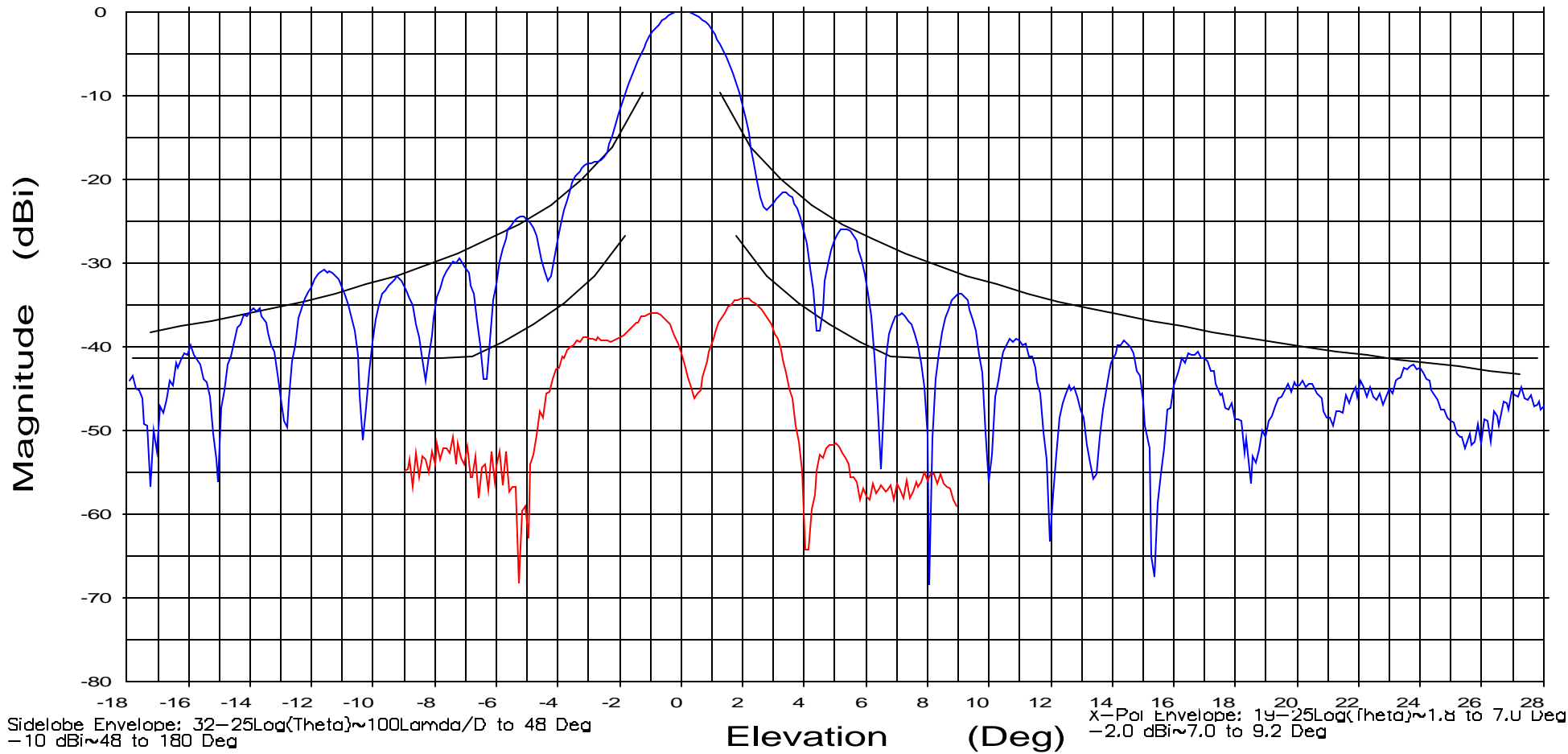
Operator: Keny Poovey

Ser. no.:

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays

1378 - 38.dat-ant_under_test

1378 - 40A.dat-ant_under_test

Cal. file

1378 - 38.da

1378 - 40A.d

units

dBi

dBi

Beam Peak

Deg

0.06

dB

0.02