

GENERAL DYNAMICS

SATCOM Technologies

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259
2437 Test Report



East Maiden Antenna Test Facility
4488 Lawing Chapel Church Road
Maiden, North Carolina 28650
828-428-1485 / 828-428-1488 fax



GENERAL DYNAMICS

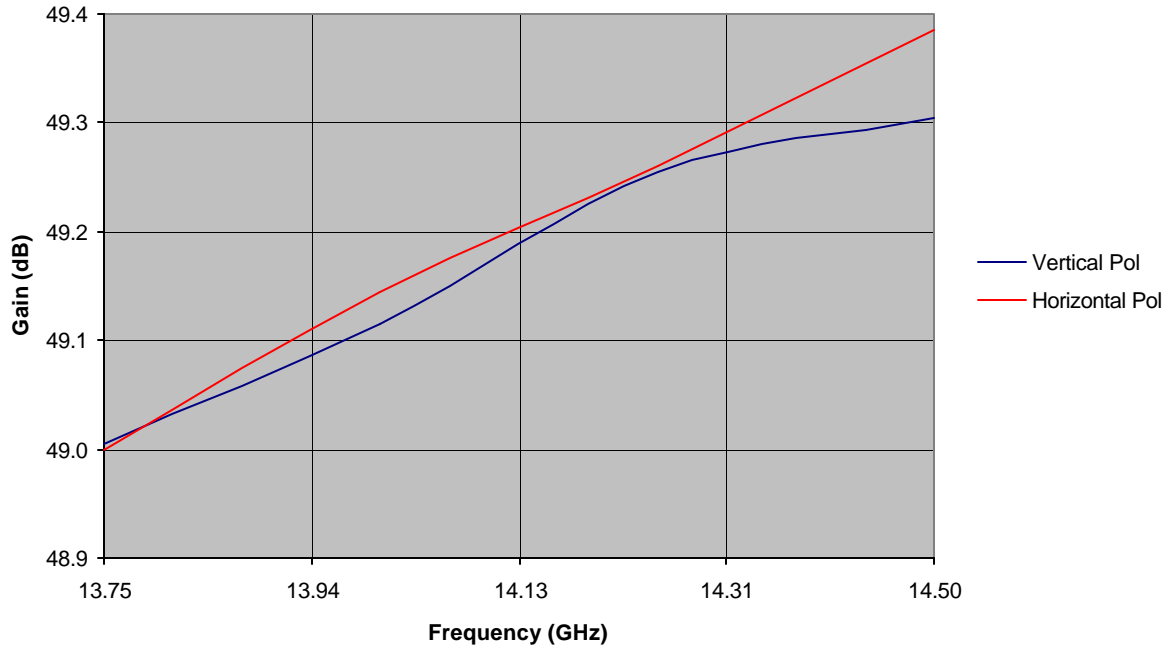
SATCOM Technologies

Gain Analysis

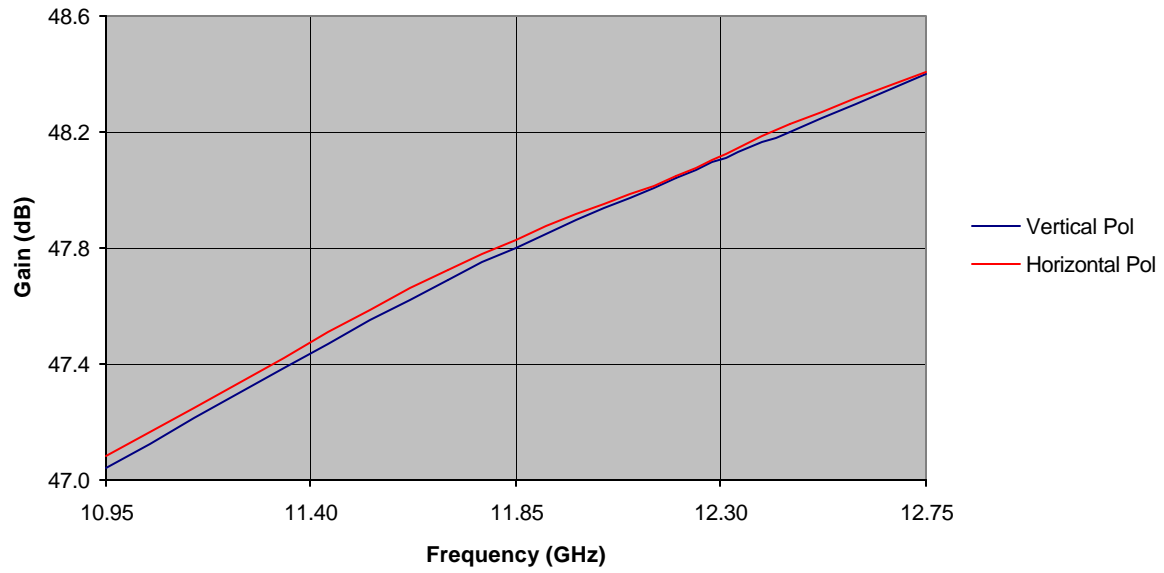
Transmit and Receive

2.4M Ku-Band Rx/Tx Antenna System
Series 1244 & 1259
Test No. 2437

Gain Analysis Transmit



Gain Analysis Receive





Vertical Polarity Radiation Patterns

Transmit

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

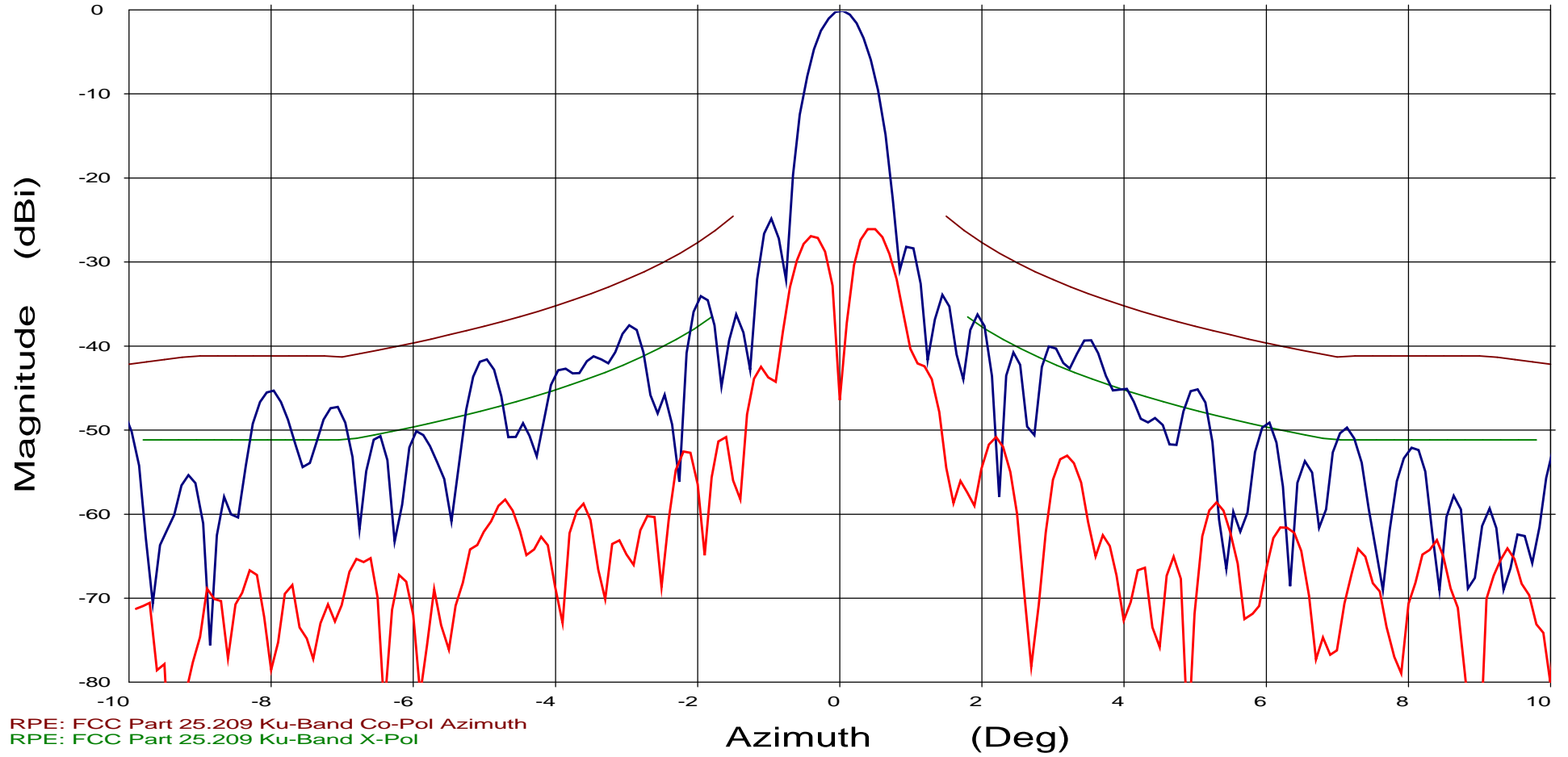
Frequency : 13.750 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

2437-1667 - 07.dat-ant_under_test

2437-1667 - 10.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

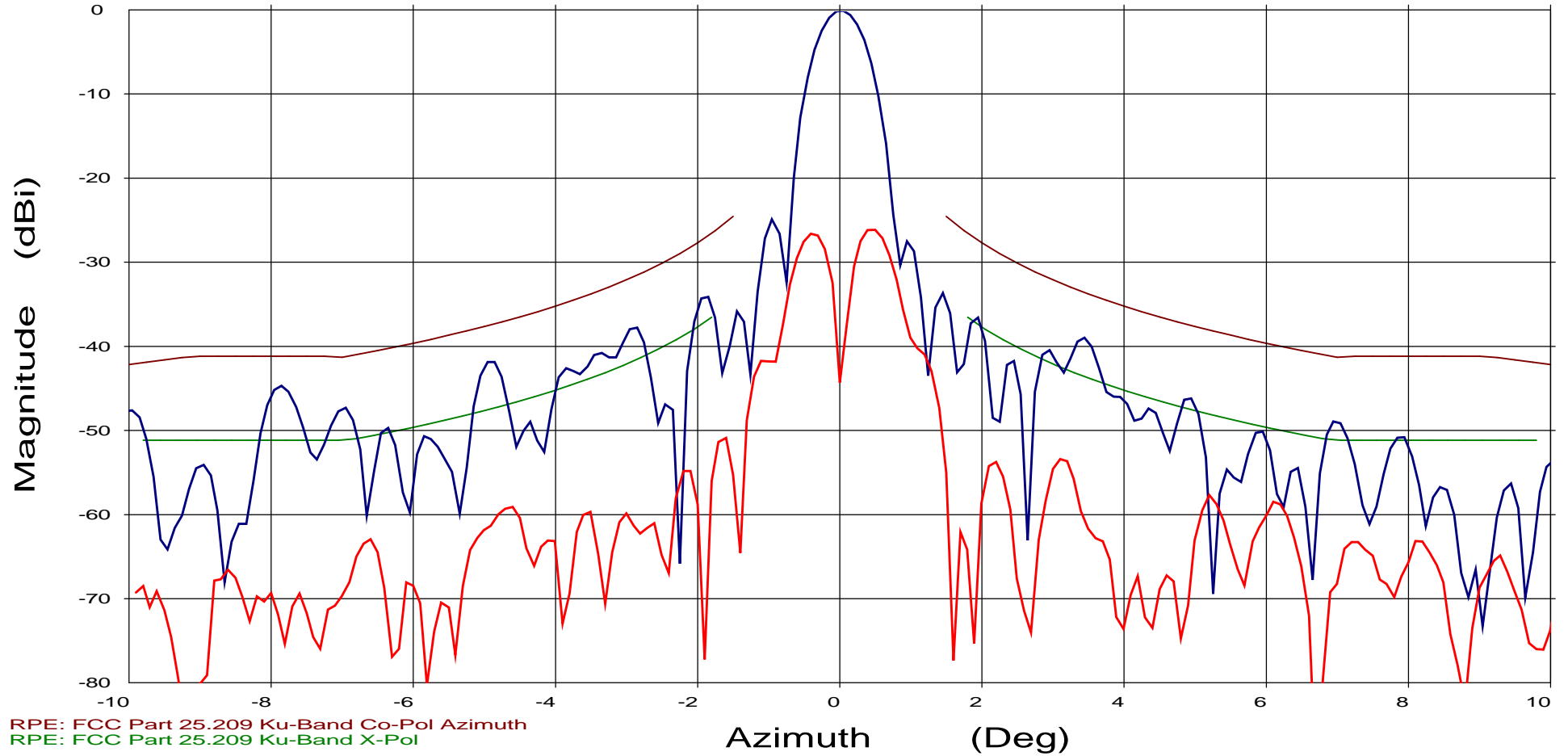
Frequency : 14.000 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

2437-1667 - 07.dat-ant_under_test

2437-1667 - 10.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

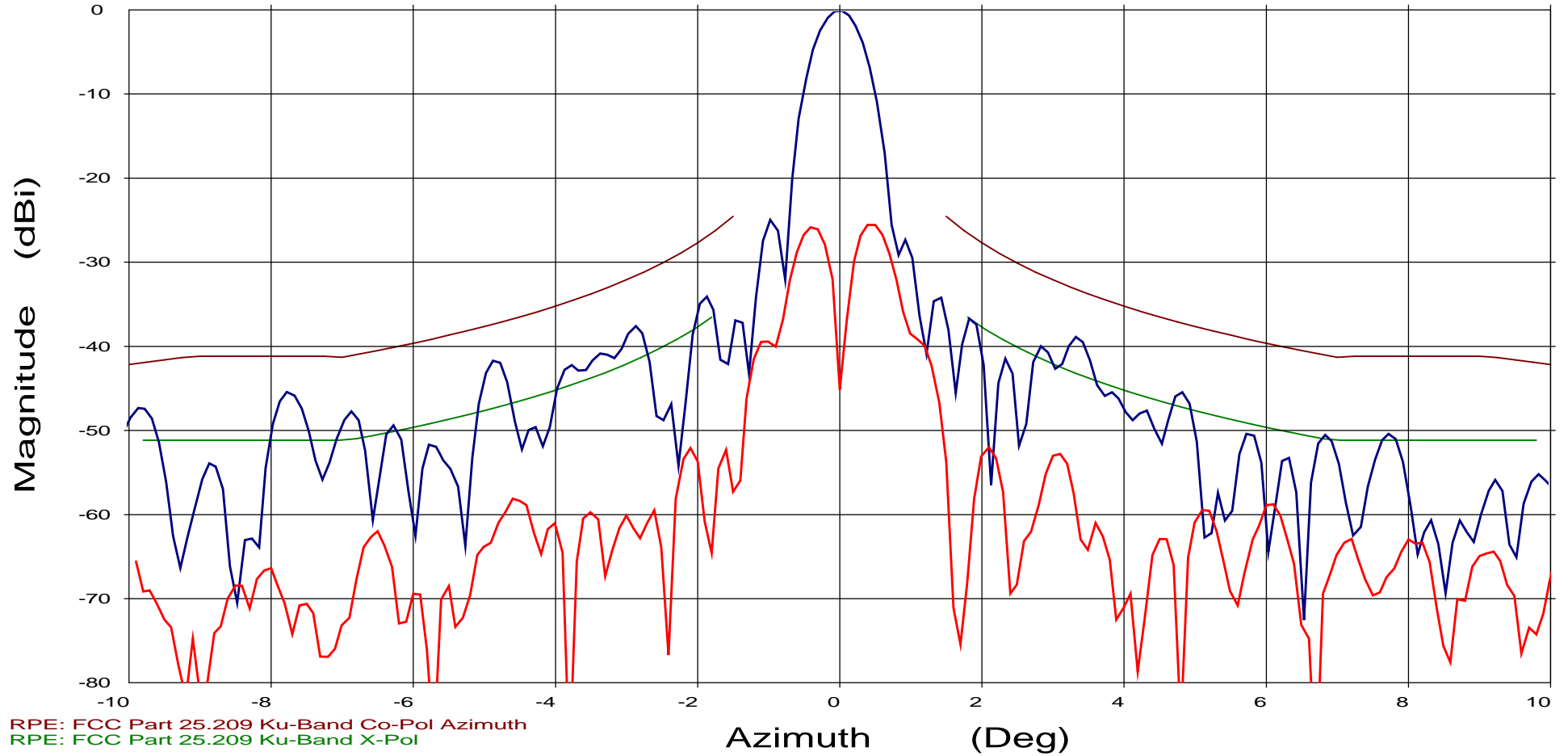
Frequency : 14.250 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

2437-1667 - 07.dat-ant_under_test

2437-1667 - 10.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

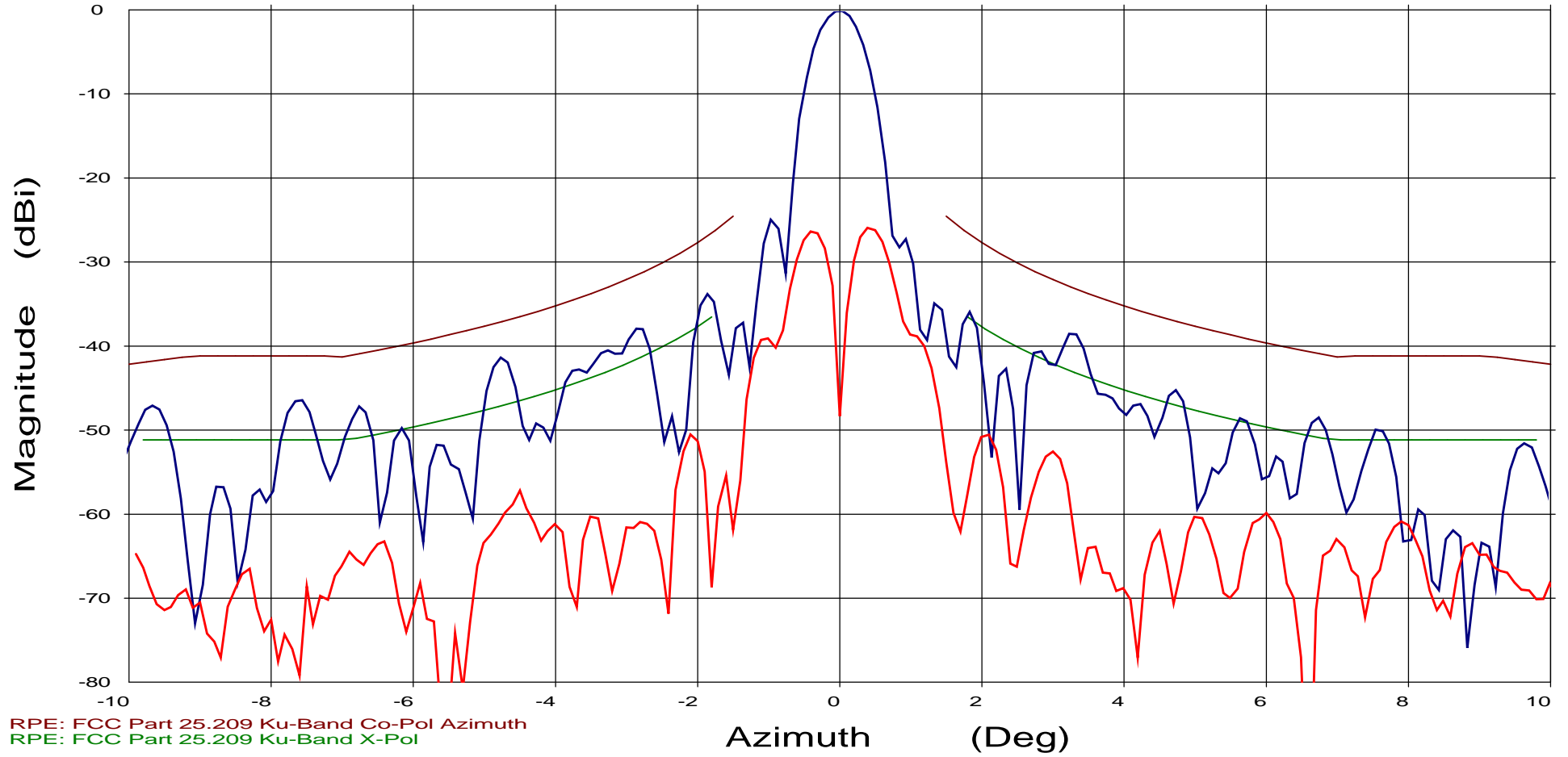
Frequency : 14.500 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth
RPE: FCC Part 25.209 Ku-Band X-Pol

Overlays
2437-1667 - 07.dat-ant_under_test
2437-1667 - 10.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

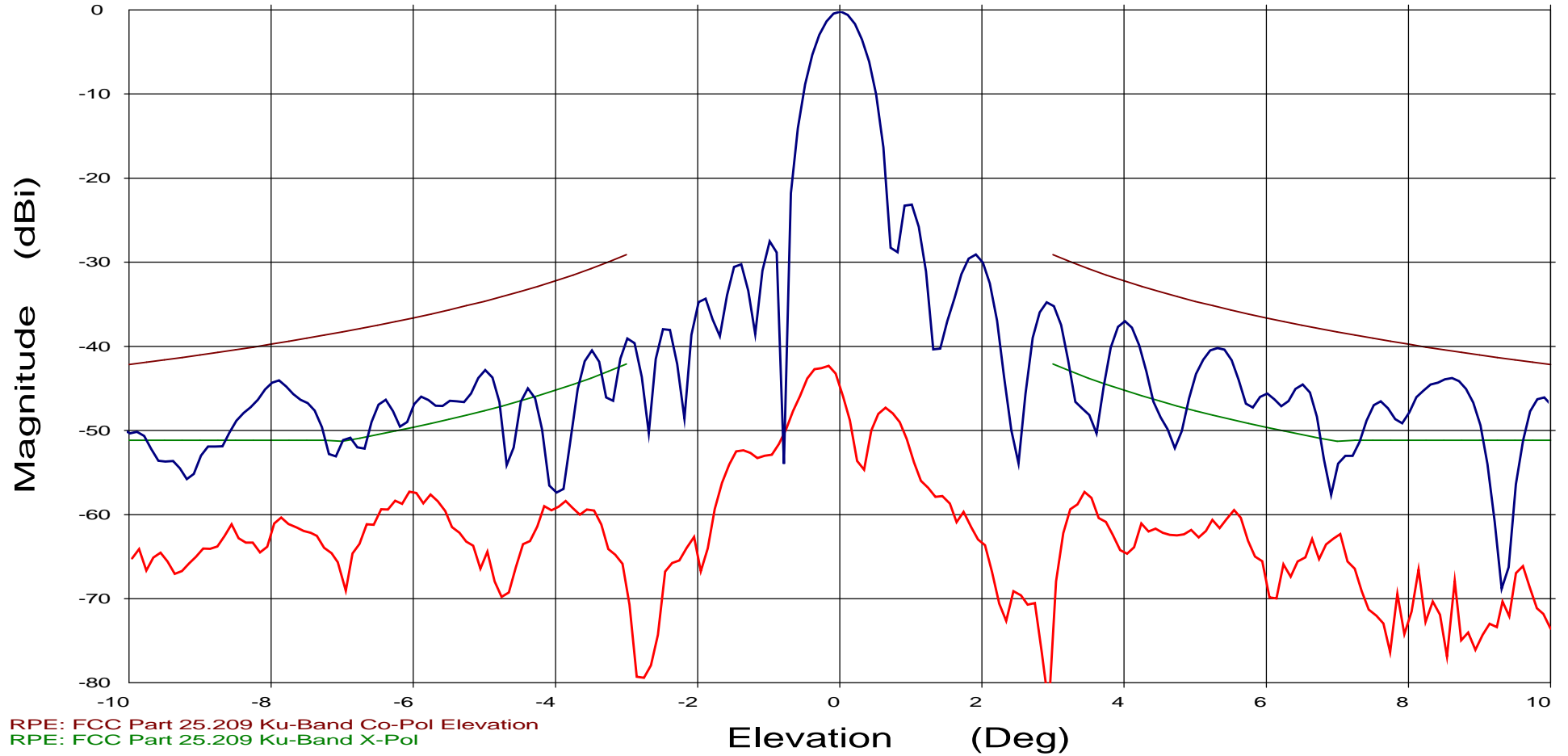
Frequency : 13.750 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation
RPE: FCC Part 25.209 Ku-Band X-Pol

Overlays
2437-1667 - 11.dat-ant_under_test
2437-1667 - 22.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

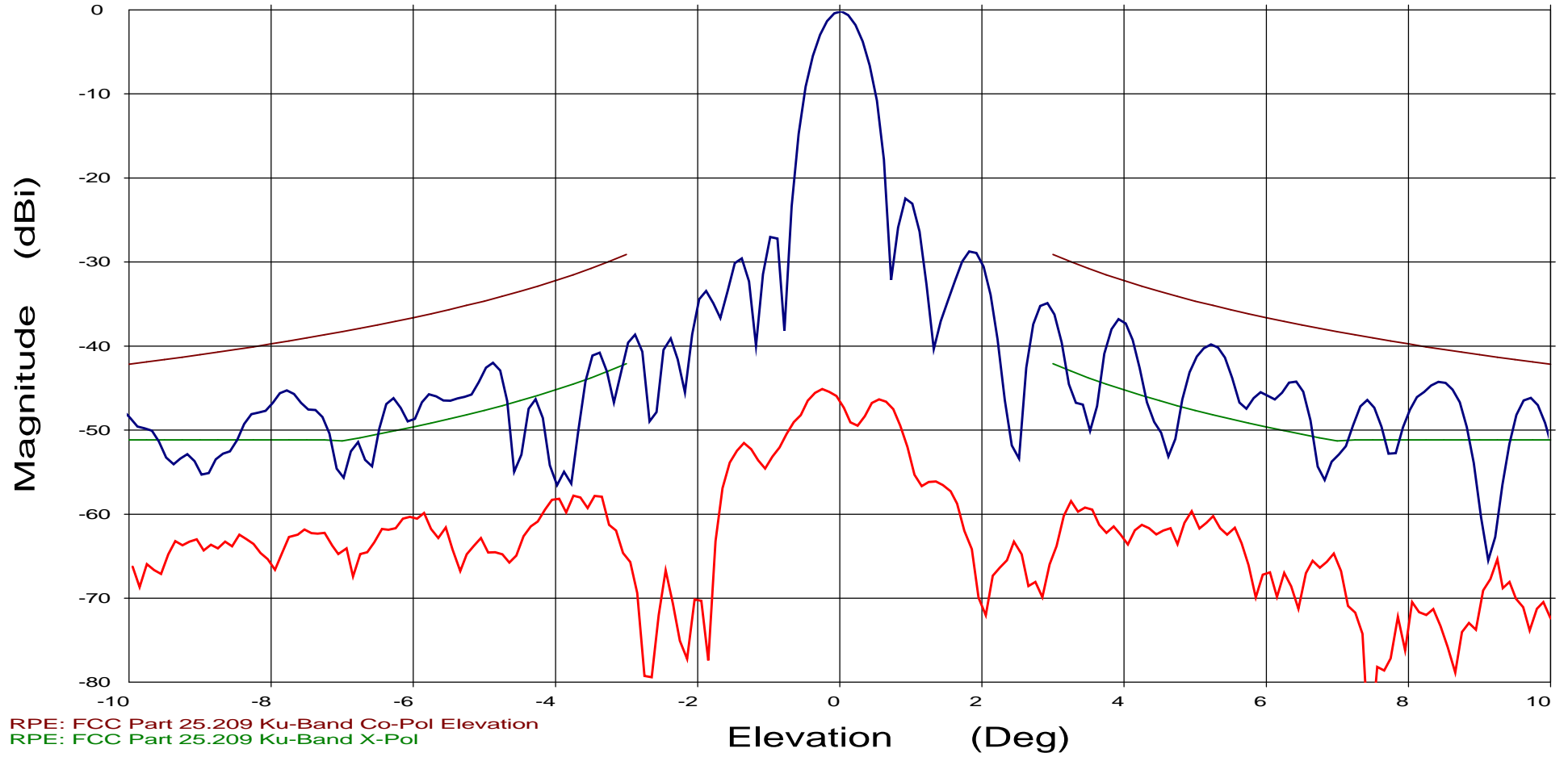
Frequency : 14.000 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

2437-1667 - 11.dat-ant_under_test

2437-1667 - 22.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

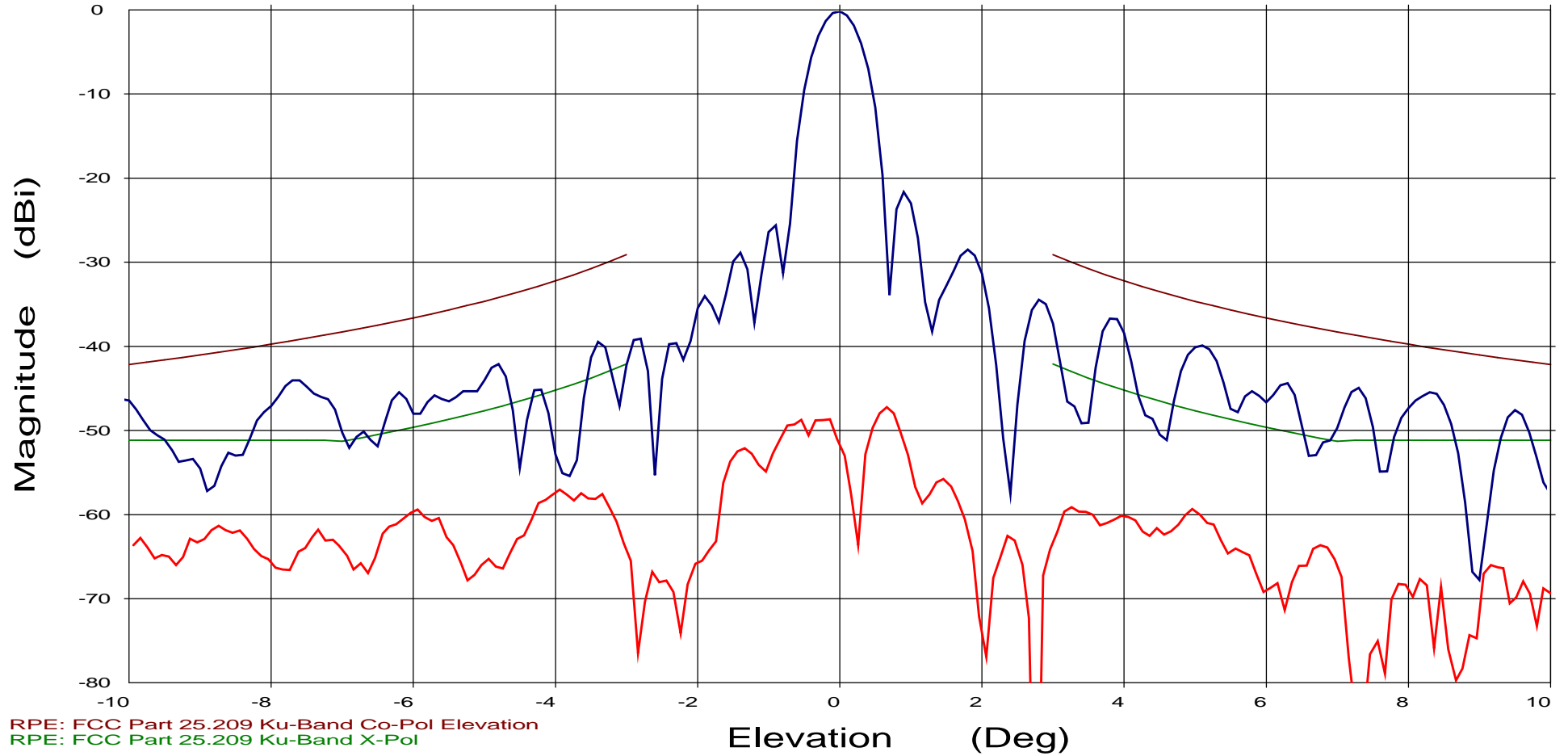
Frequency : 14.250 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

2437-1667 - 11.dat-ant_under_test

2437-1667 - 22.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

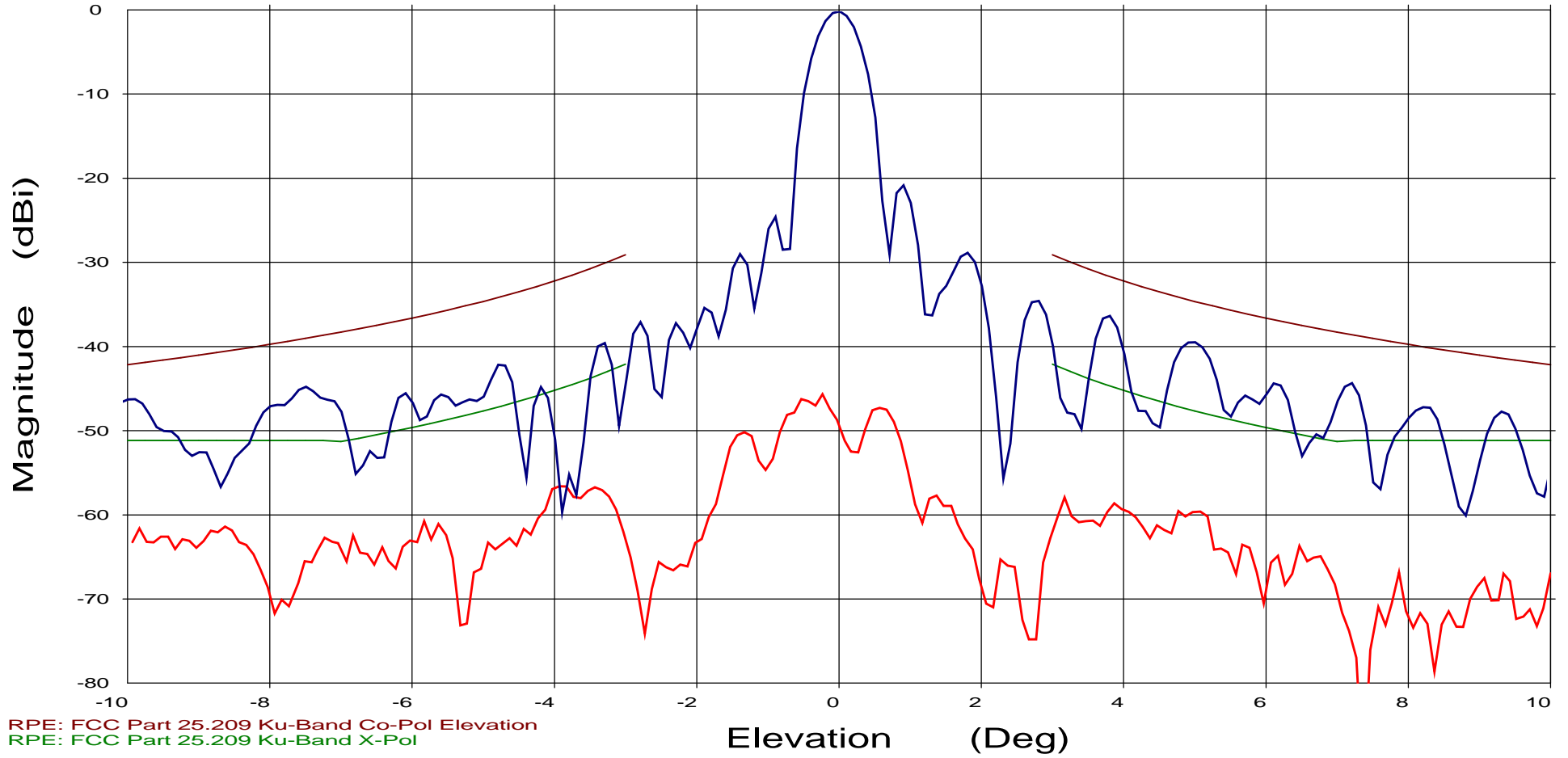
Frequency : 14.500 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation
RPE: FCC Part 25.209 Ku-Band X-Pol

Overlays

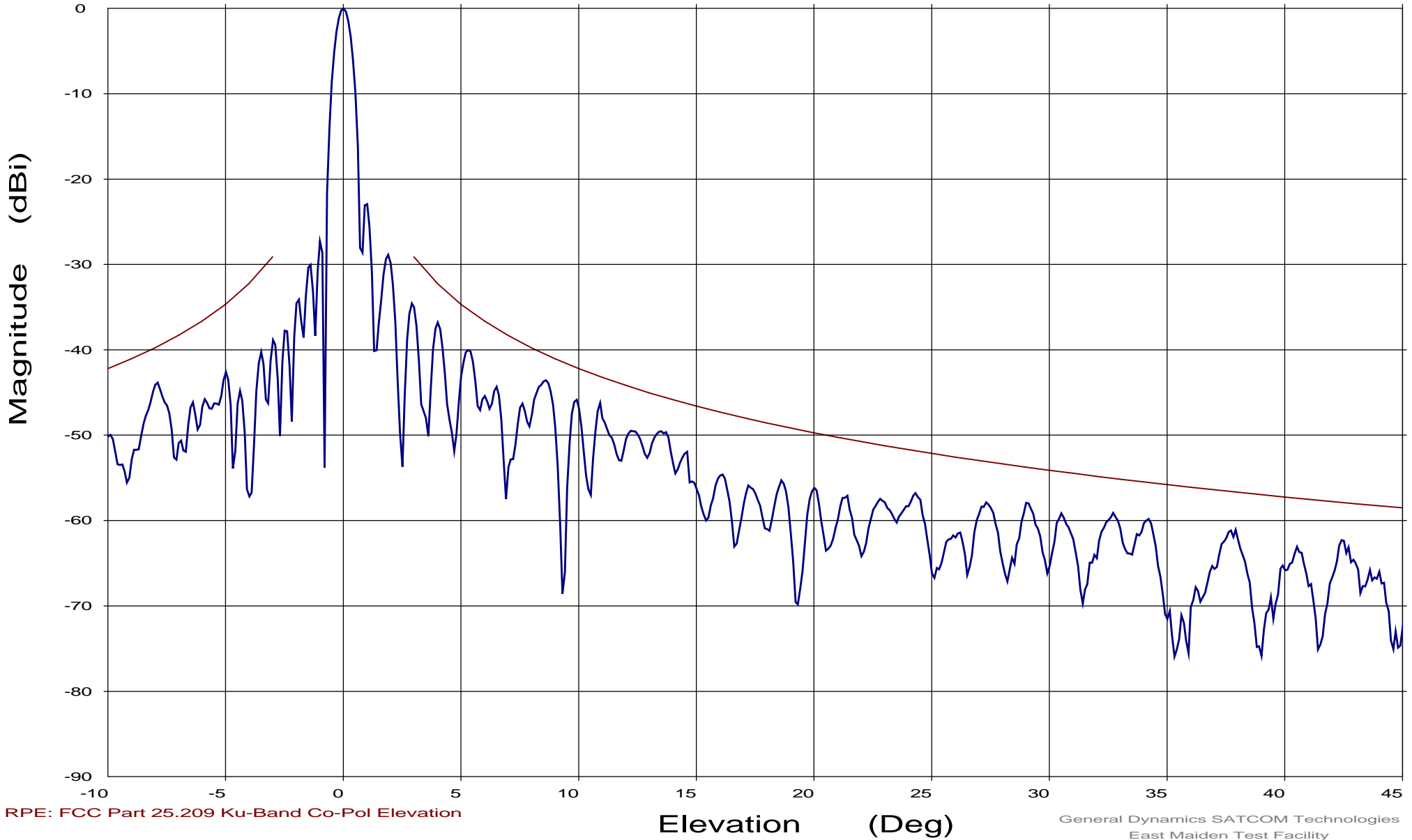
2437-1667 - 11.dat-ant_under_test
2437-1667 - 22.dat-ant_under_test

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



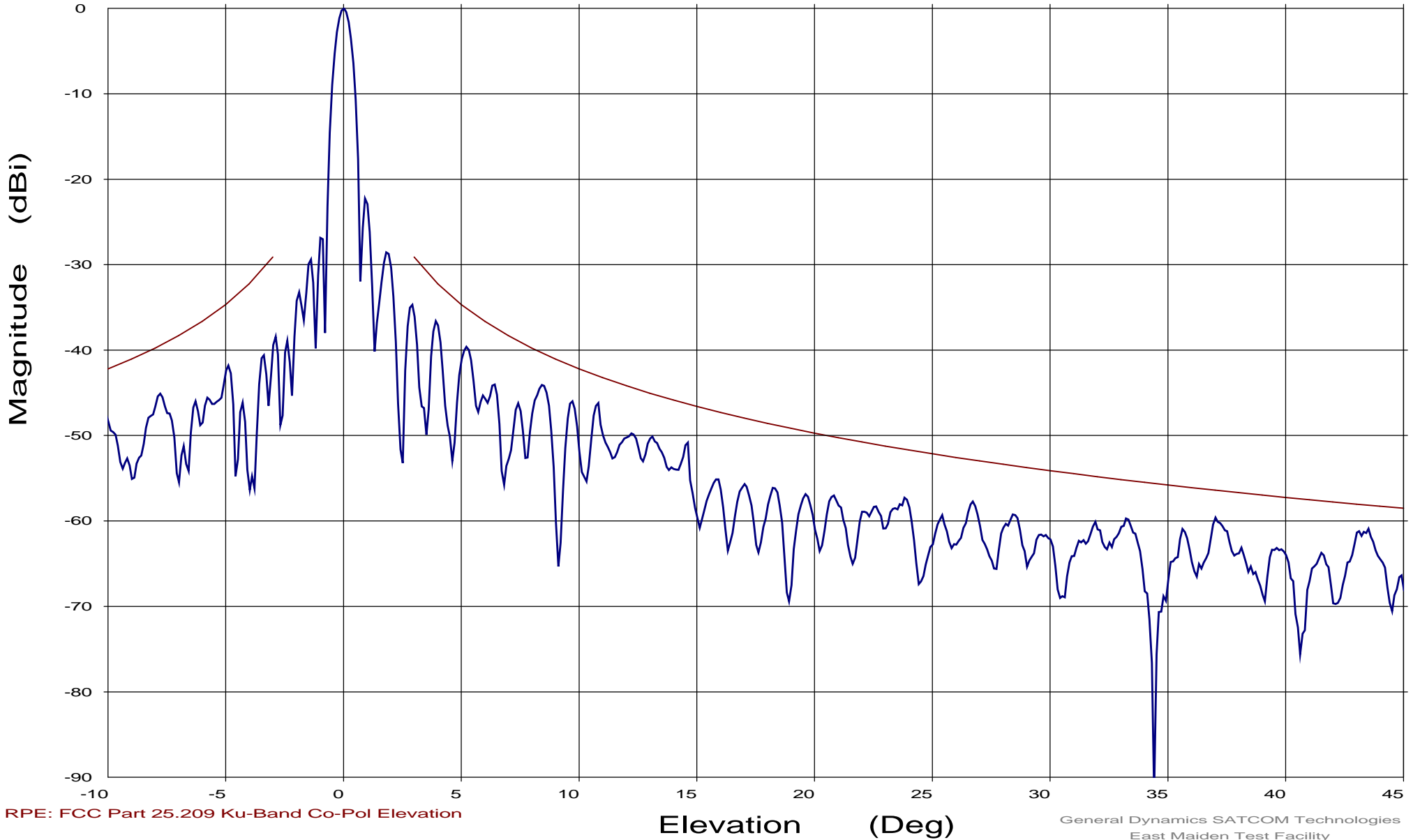
RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



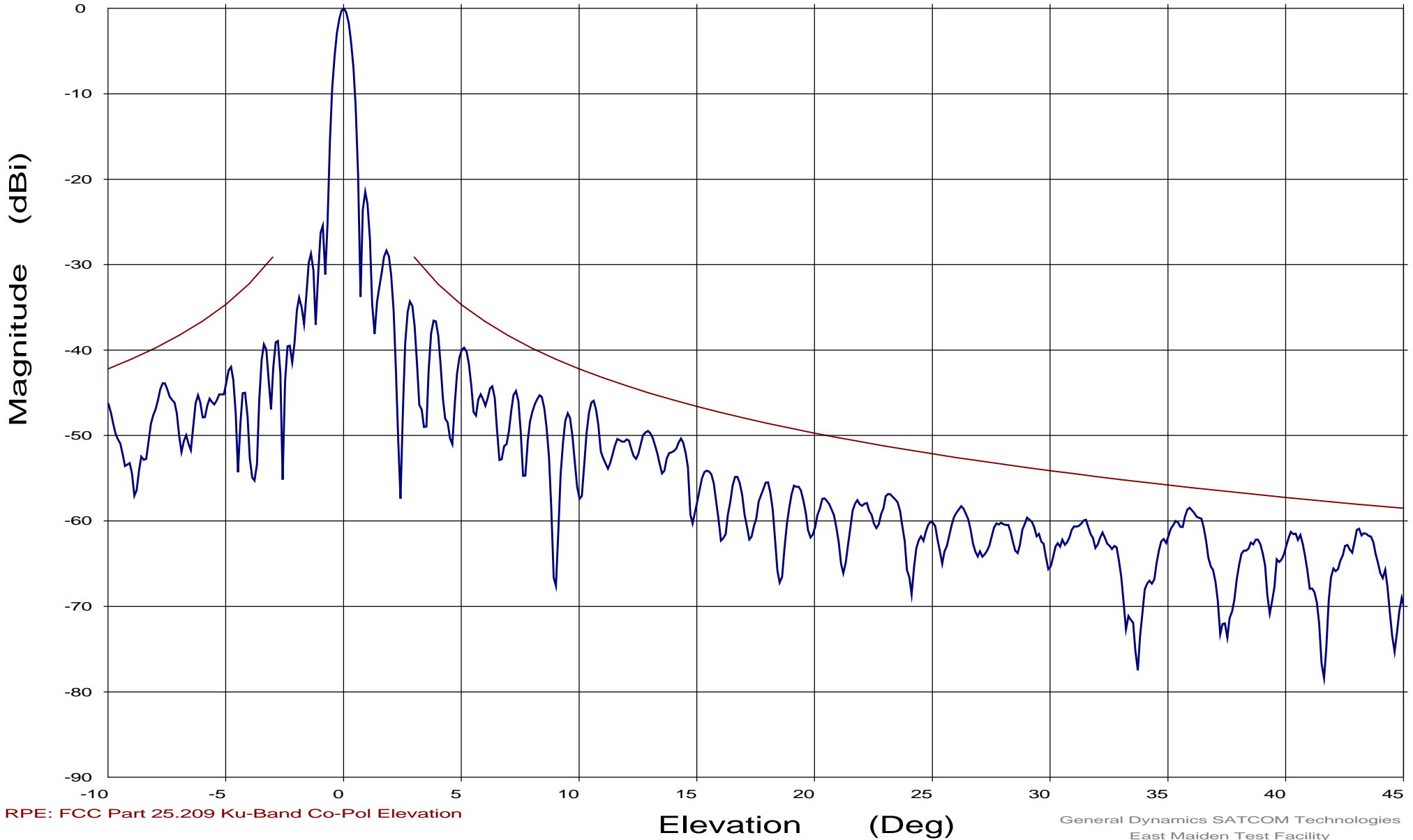
RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



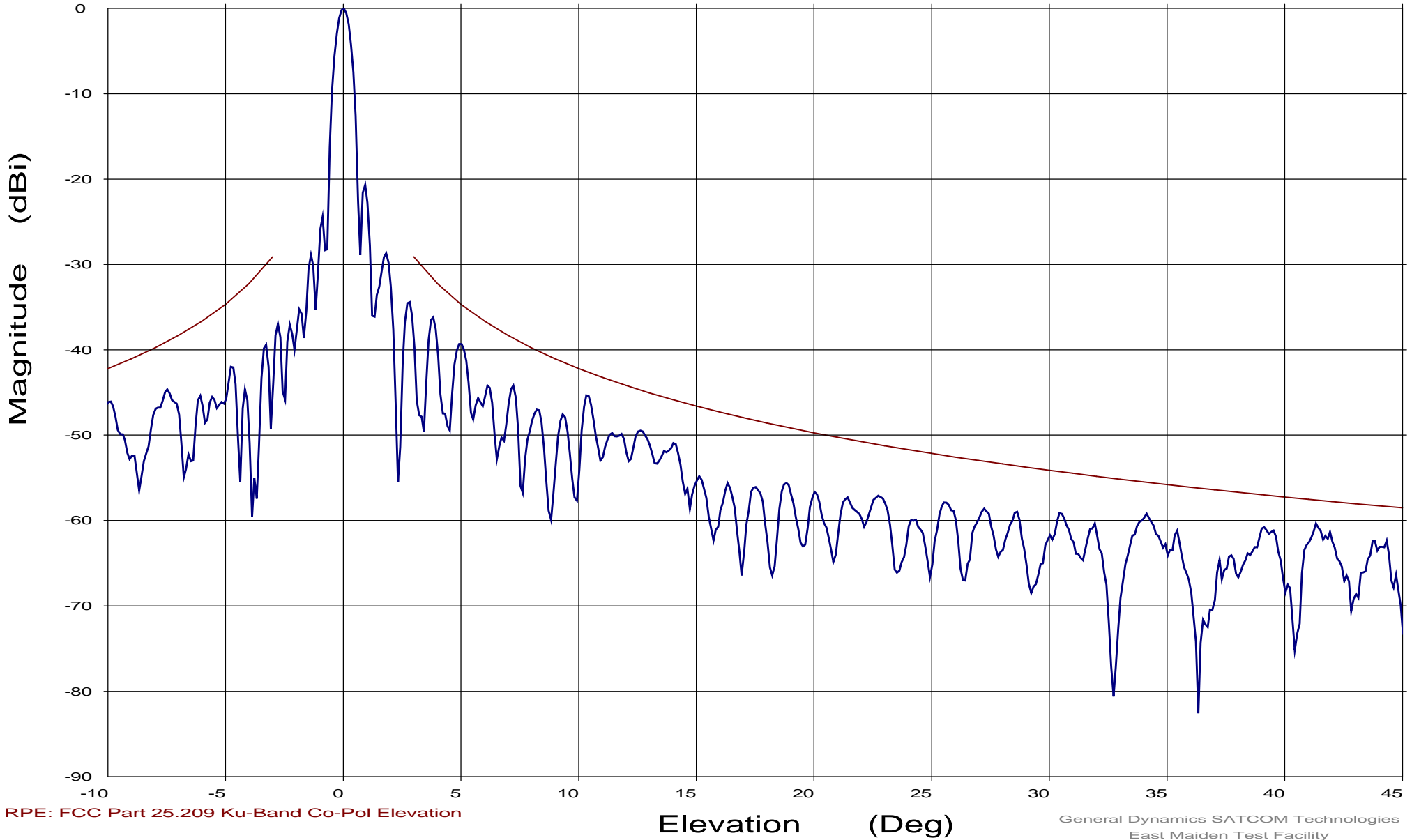
RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.

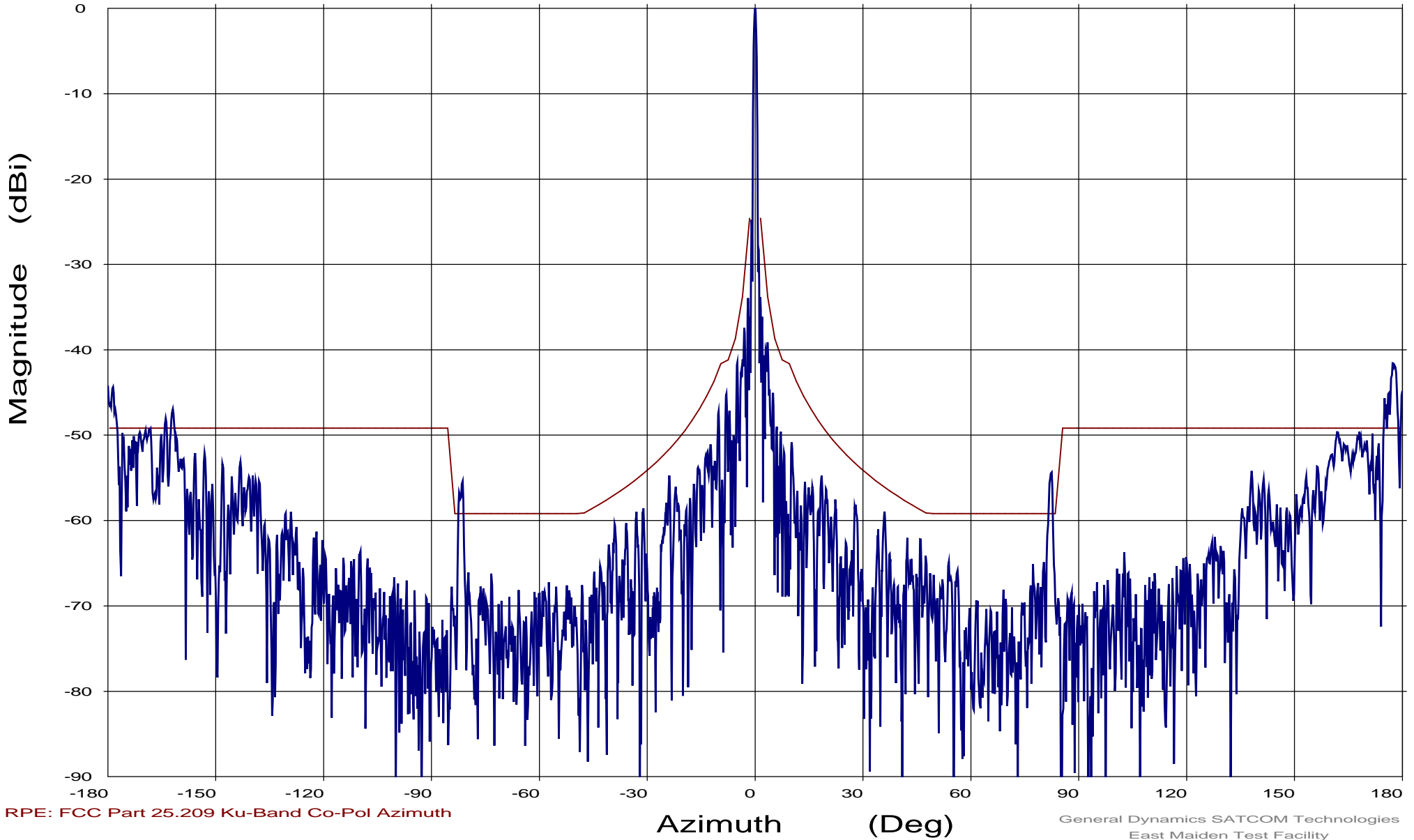


Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



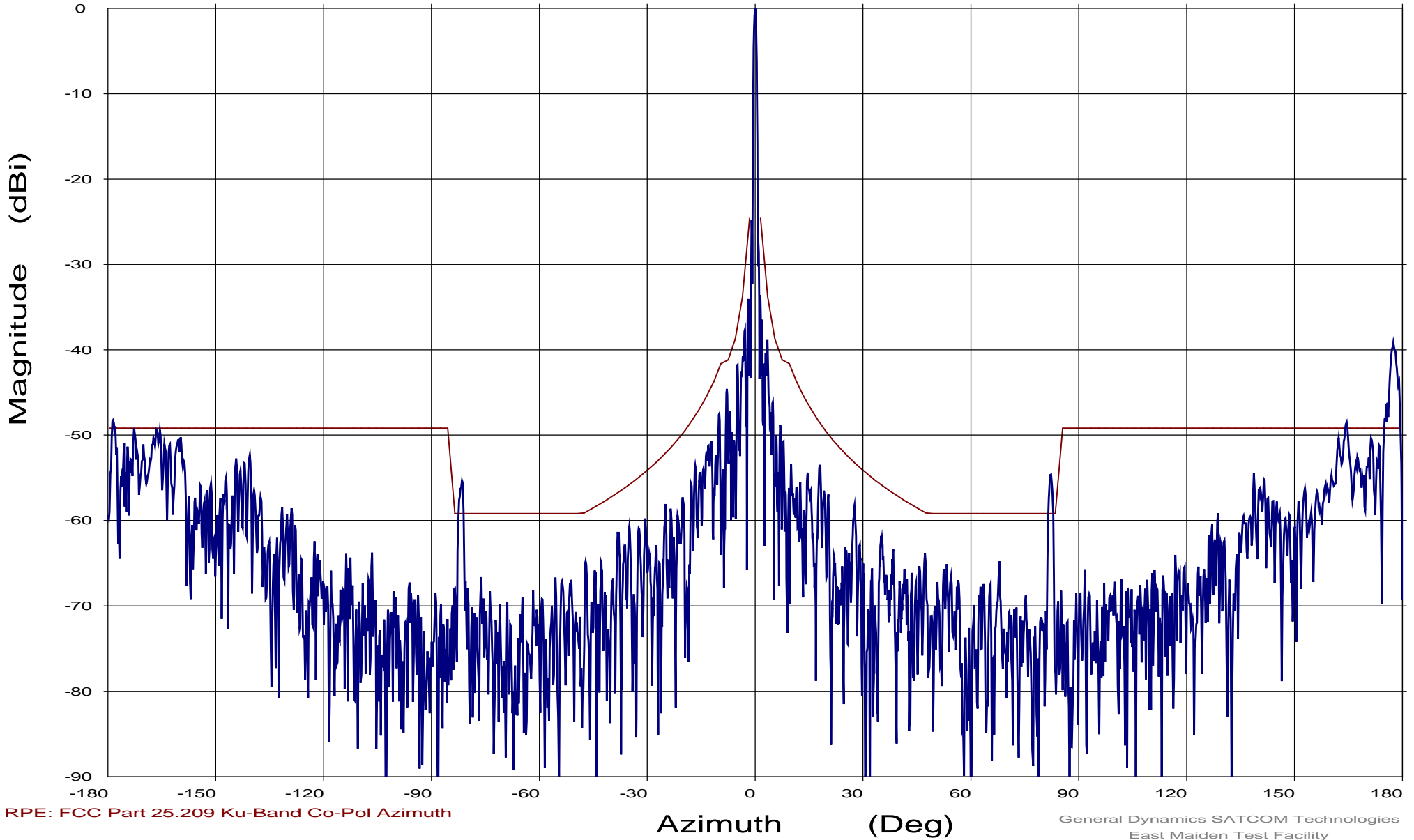
RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



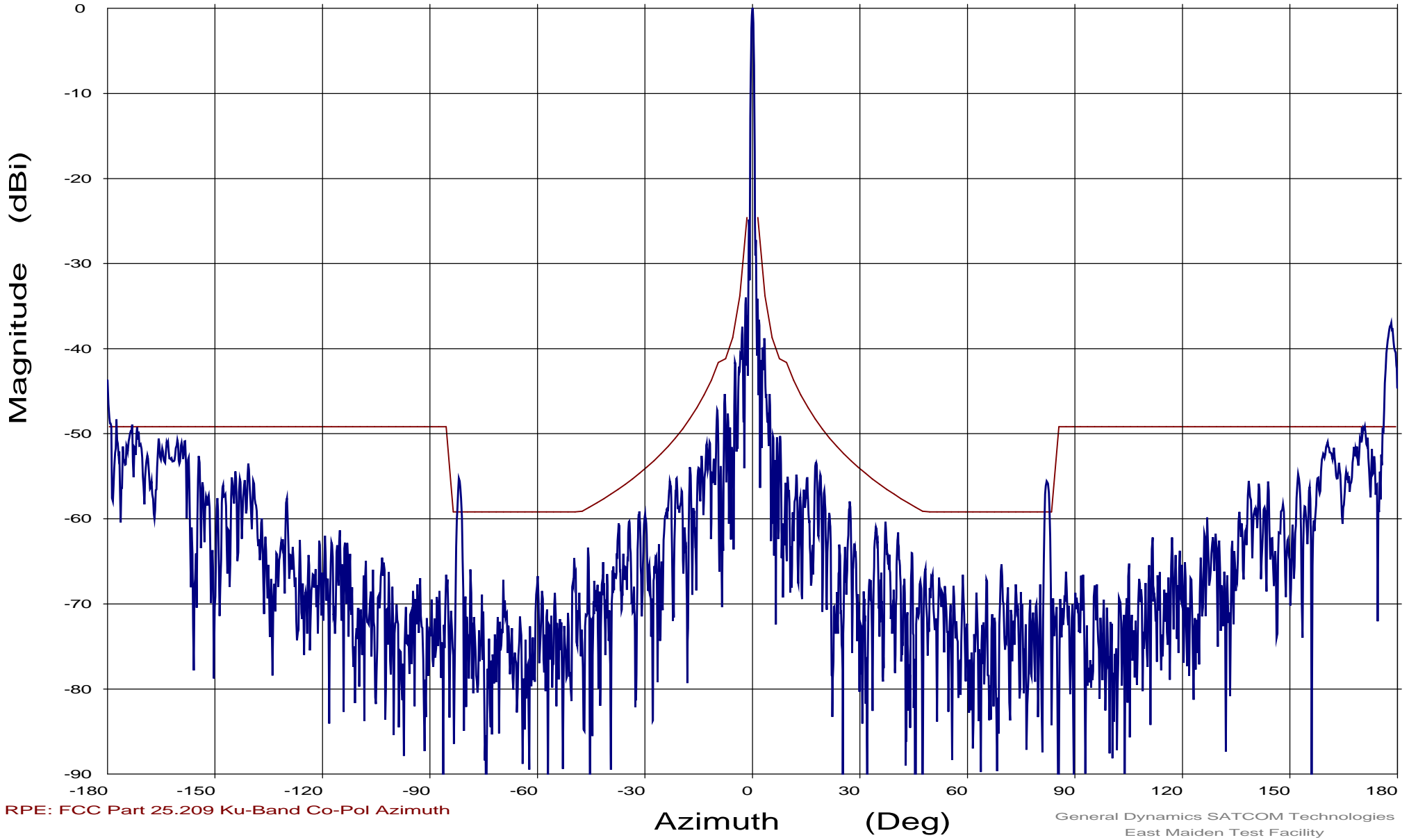
RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



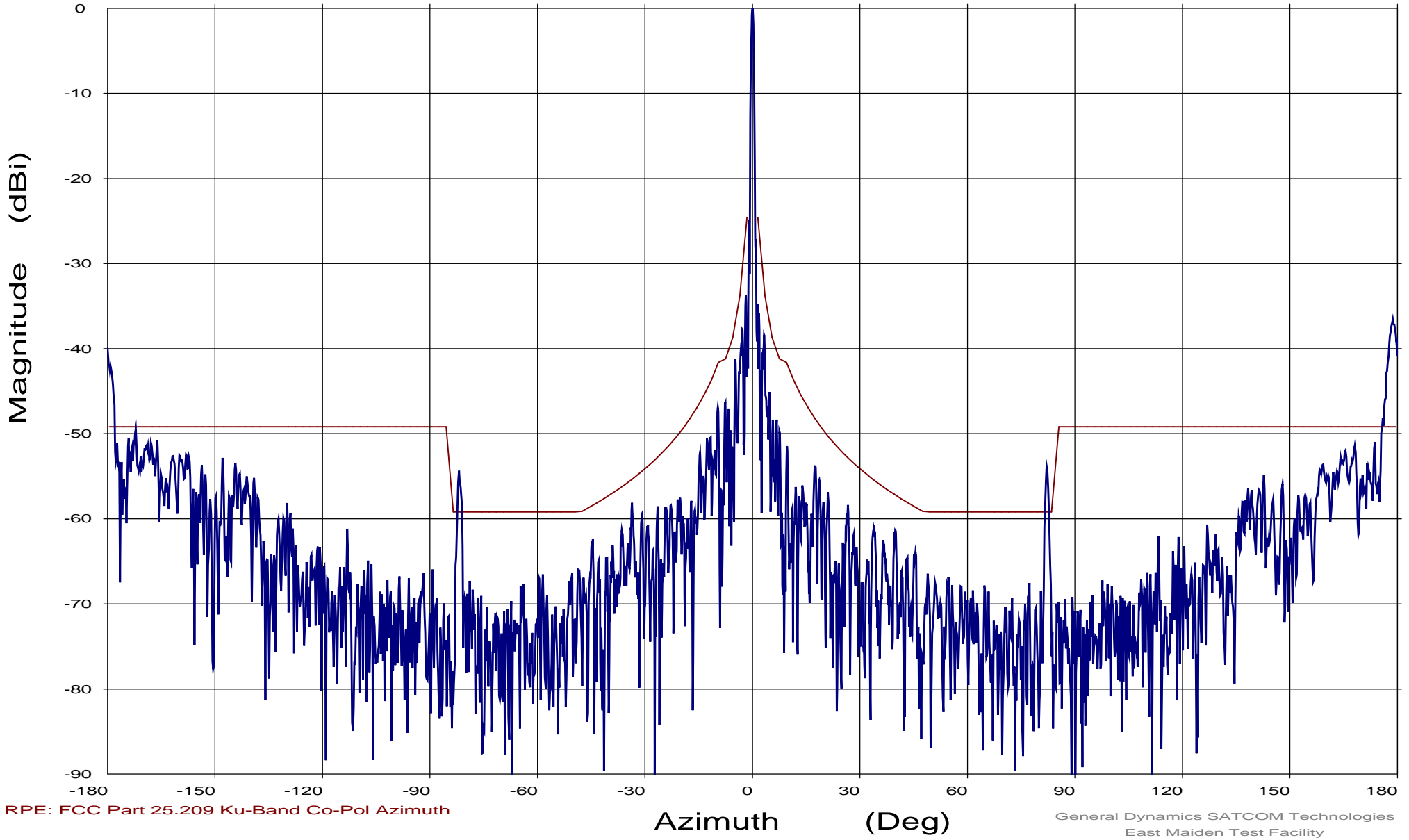
RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth



Horizontal Polarity Radiation Patterns

Transmit

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

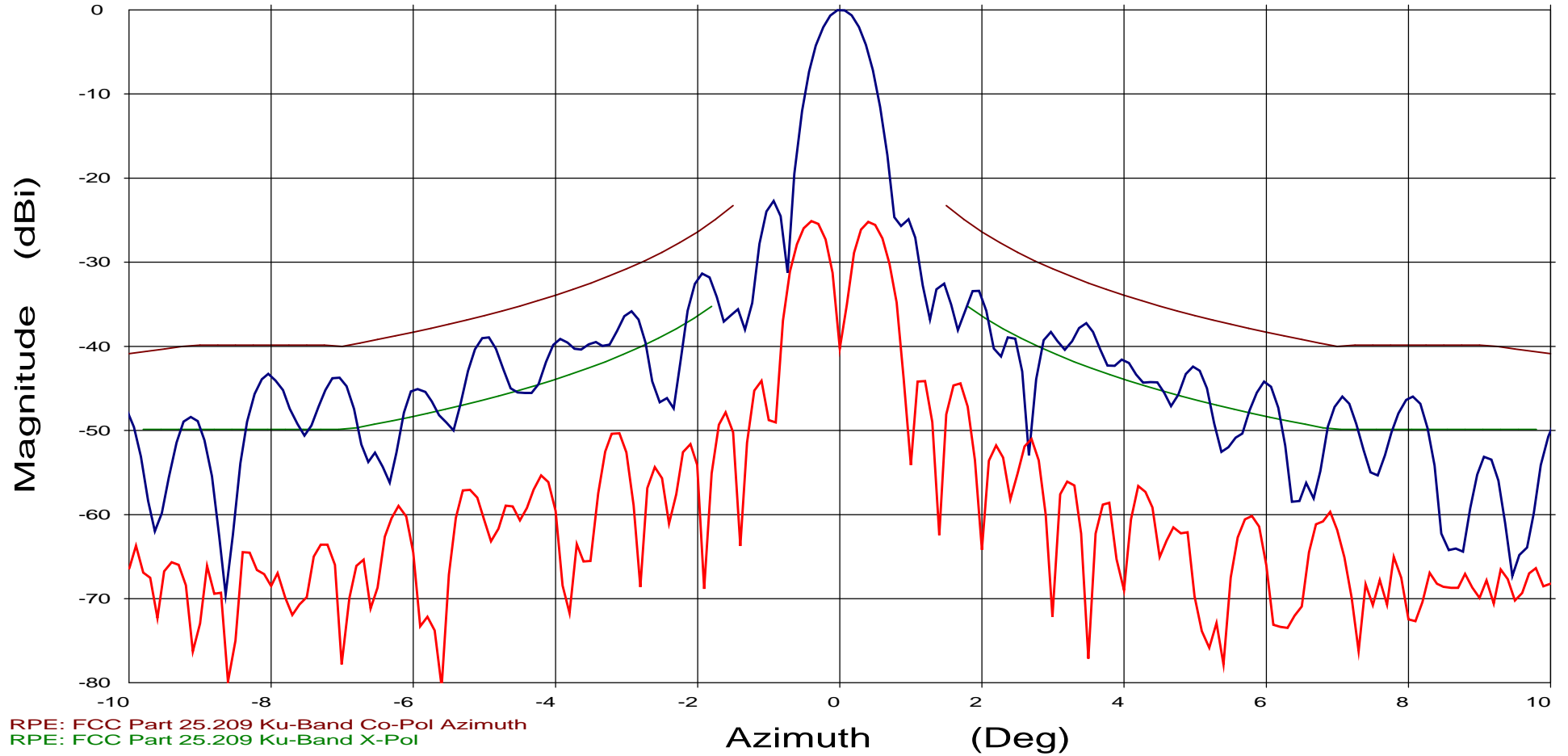
Frequency : 13.750 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth
RPE: FCC Part 25.209 Ku-Band X-Pol

Overlays
2437-1667 - 13.dat-ant_under_test
2437-1667 - 15.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

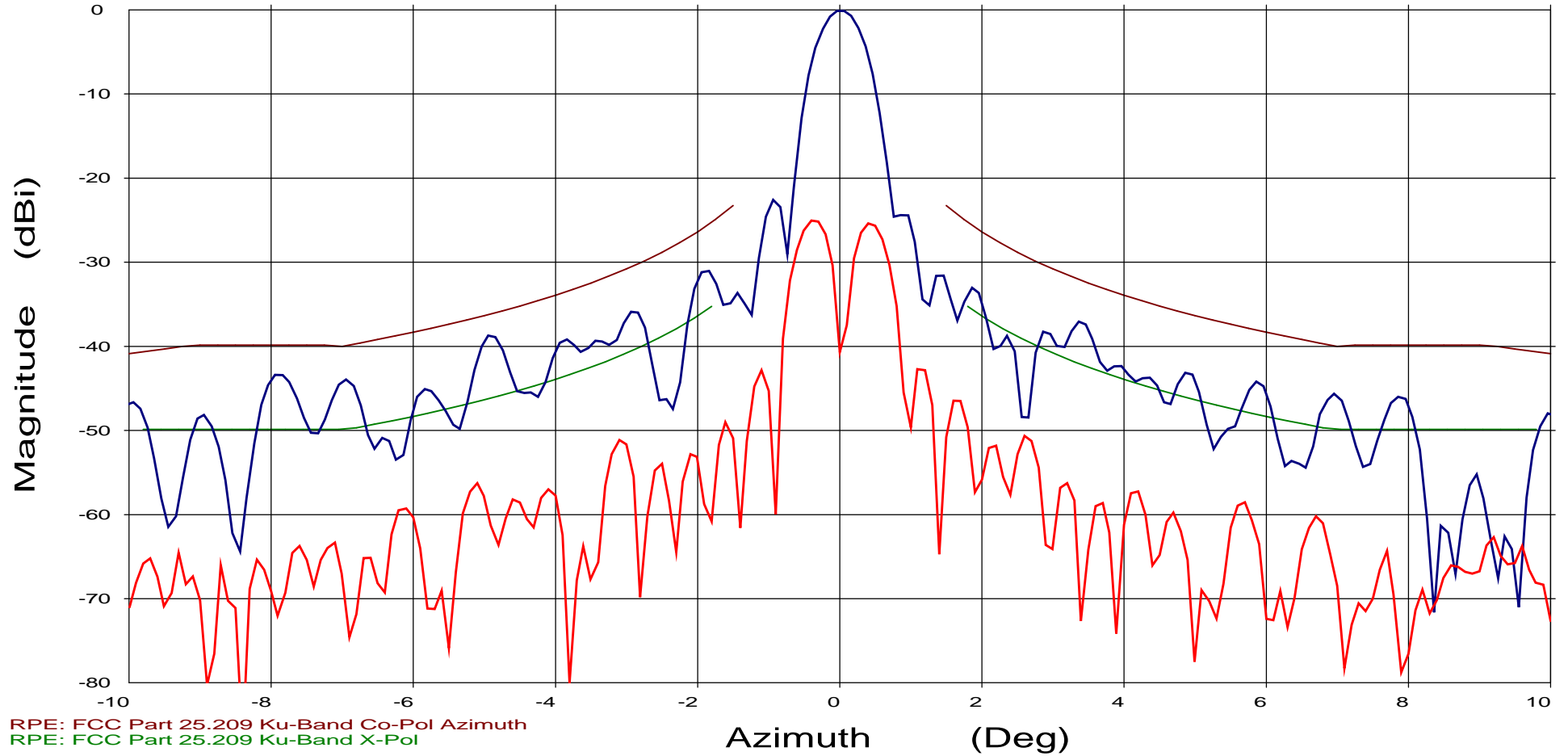
Frequency : 14.000 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays
2437-1667 - 13.dat-ant_under_test
2437-1667 - 15.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

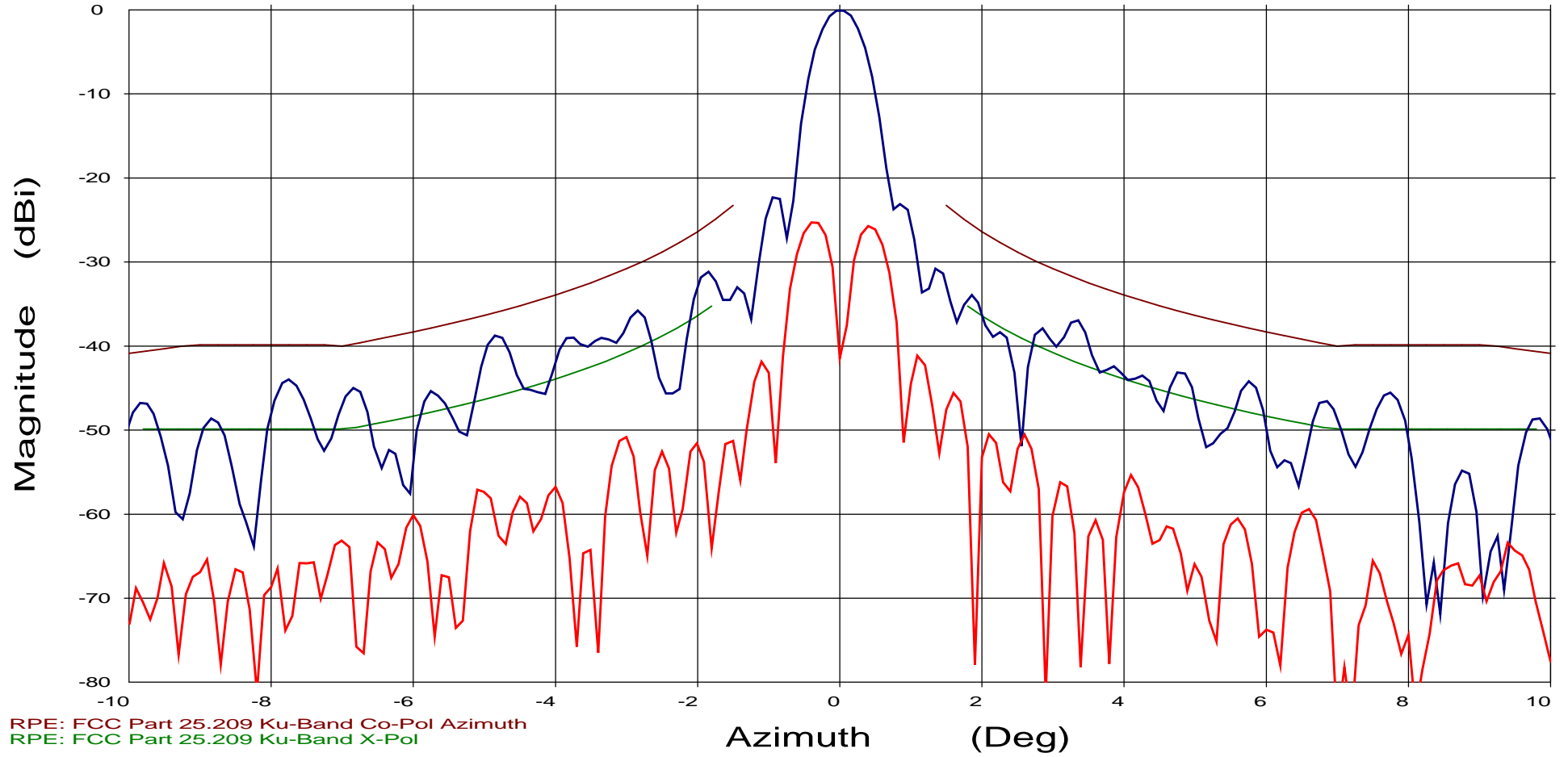
Frequency : 14.250 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays

2437-1667 - 13.dat-ant_under_test

2437-1667 - 15.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

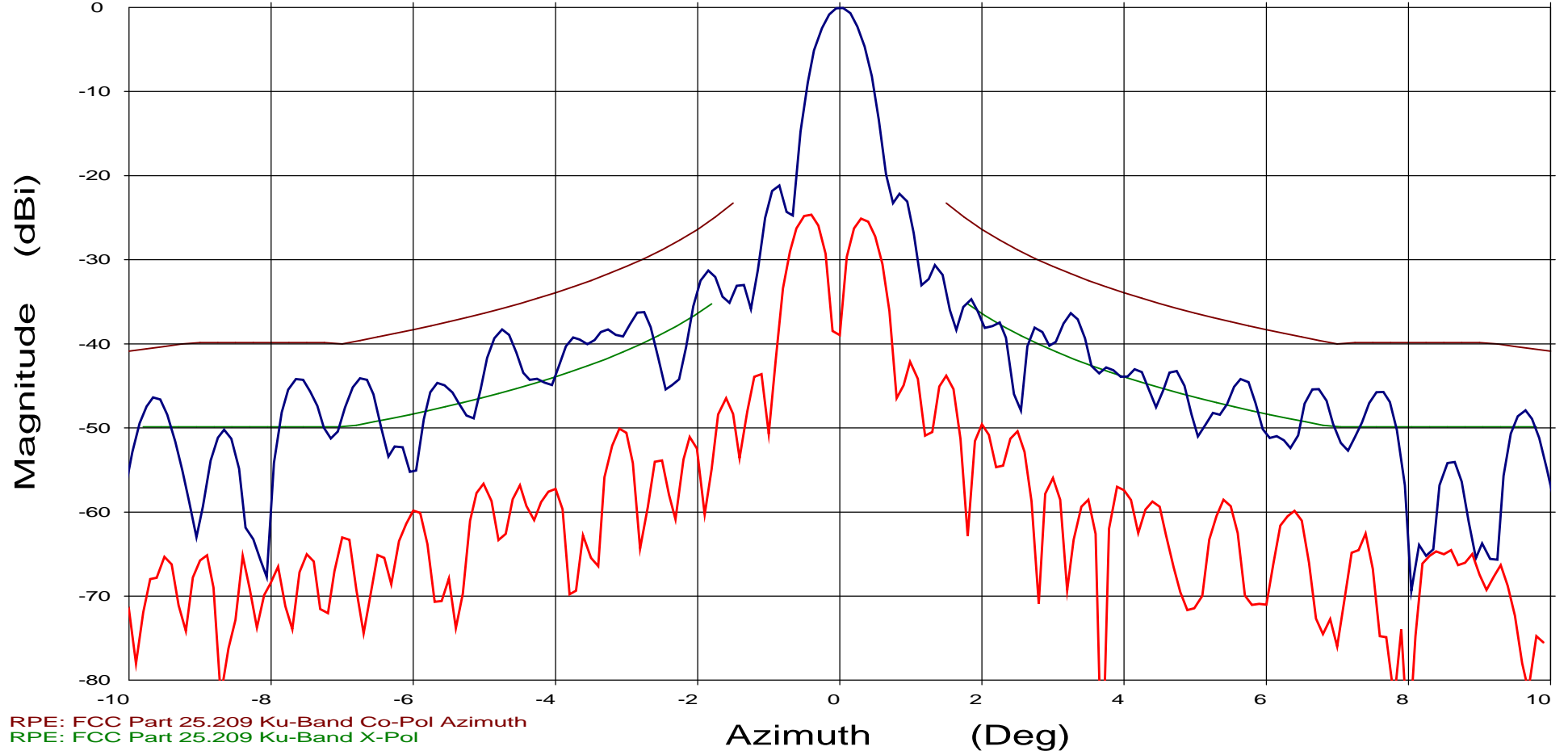
Frequency : 14.500 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth
RPE: FCC Part 25.209 Ku-Band X-Pol

Overlays
2437-1667 - 13.dat-ant_under_test
2437-1667 - 15.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

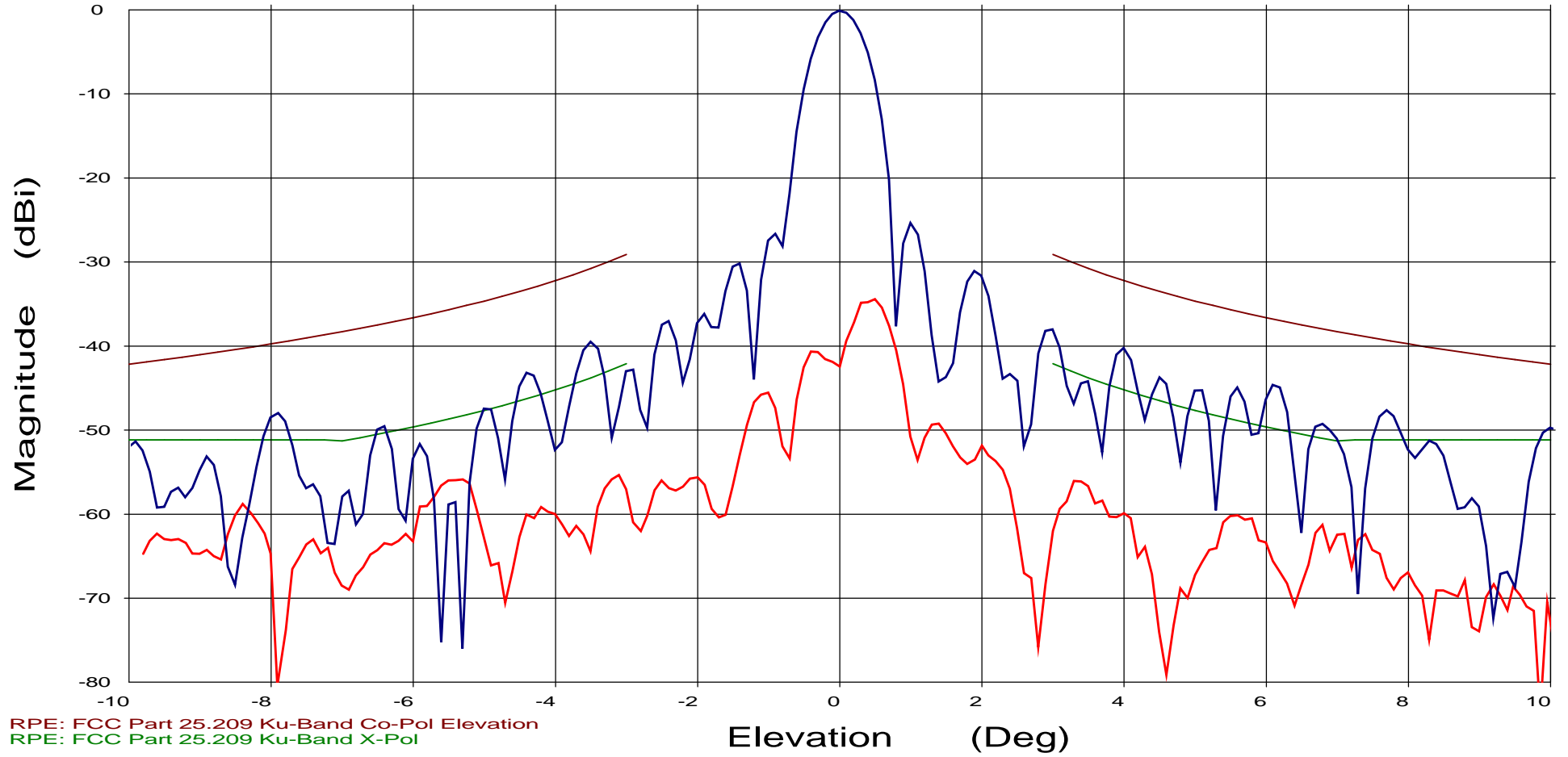
Frequency : 13.750 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation
RPE: FCC Part 25.209 Ku-Band X-Pol

Overlays
2437-1667 - 16.dat-ant_under_test
2437-1667 - 19.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

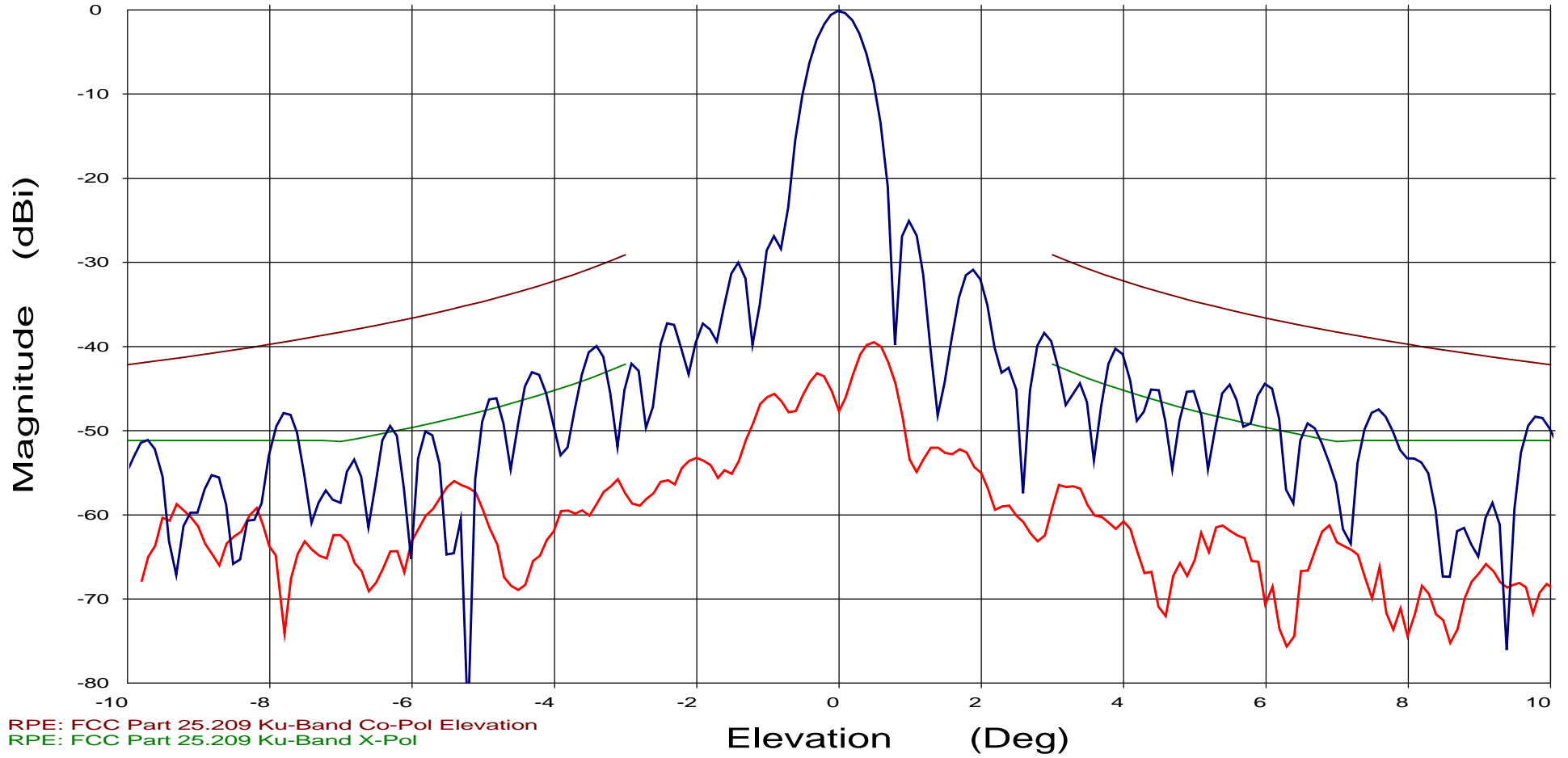
Frequency : 14.000 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation
RPE: FCC Part 25.209 Ku-Band X-Pol

Overlays
2437-1667 - 16.dat-ant_under_test
2437-1667 - 19.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

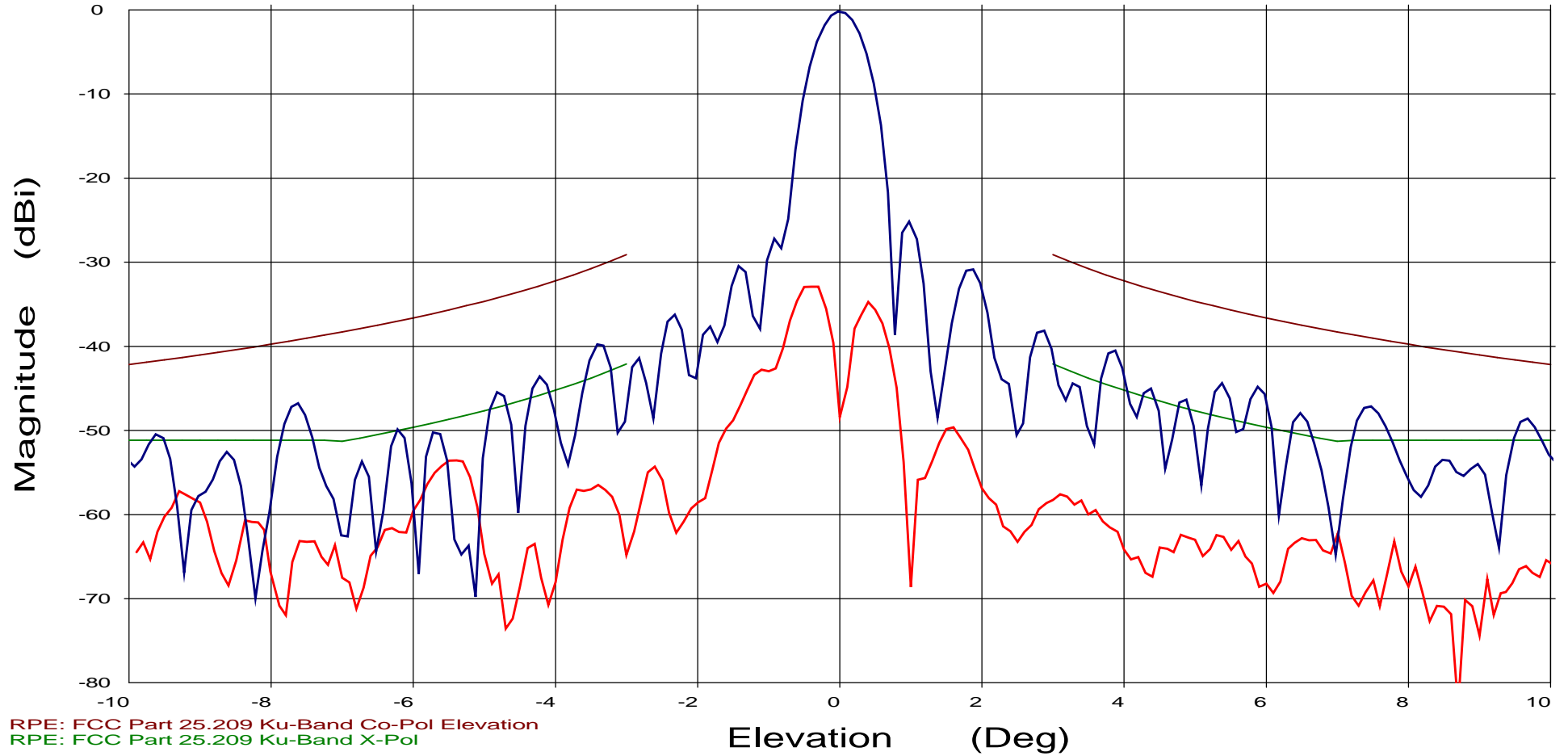
Frequency : 14.250 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation
RPE: FCC Part 25.209 Ku-Band X-Pol

Overlays
2437-1667 - 16.dat-ant_under_test
2437-1667 - 19.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

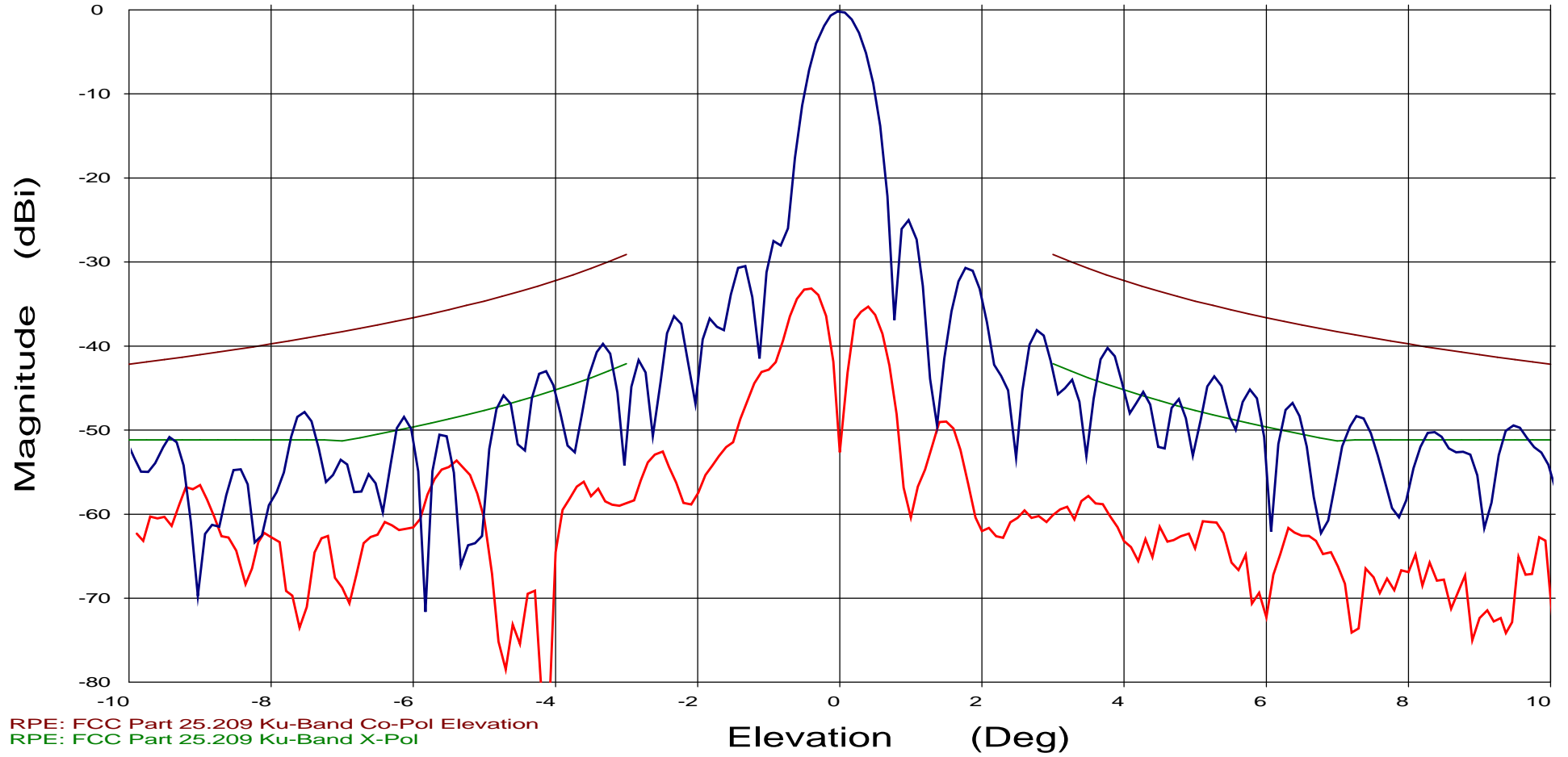
Frequency : 14.500 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation
RPE: FCC Part 25.209 Ku-Band X-Pol

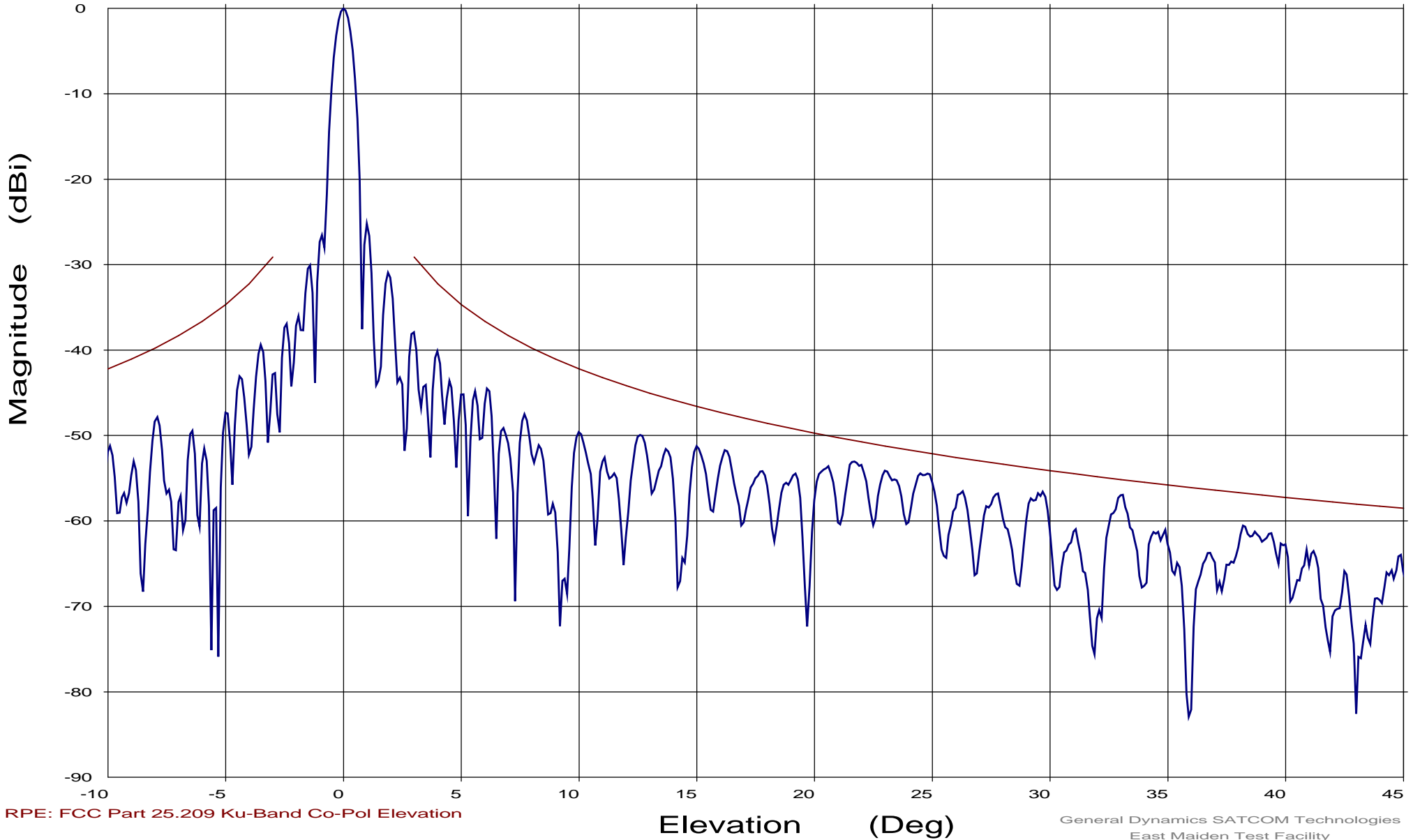
Overlays
2437-1667 - 16.dat-ant_under_test
2437-1667 - 19.dat-ant_under_test

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



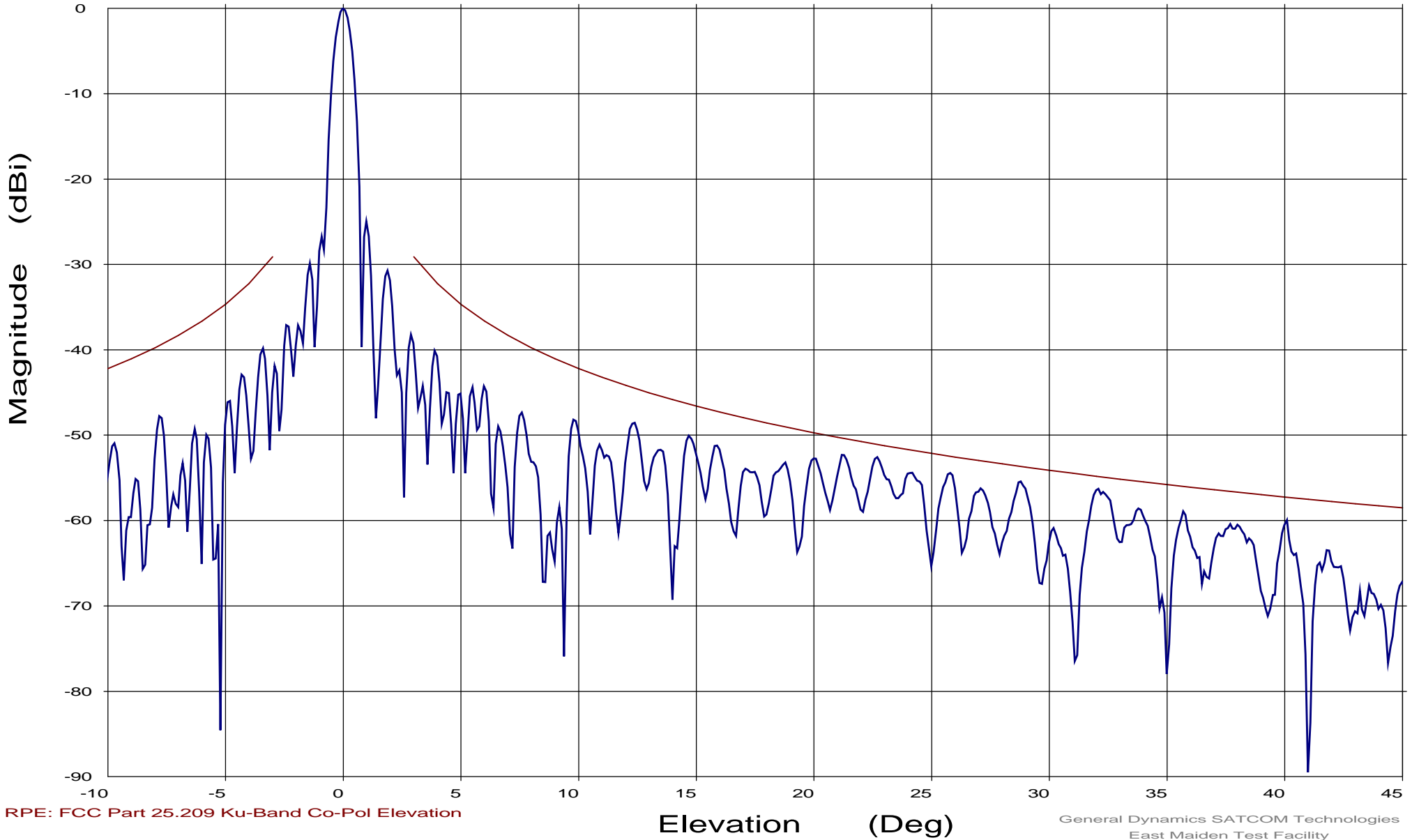
RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



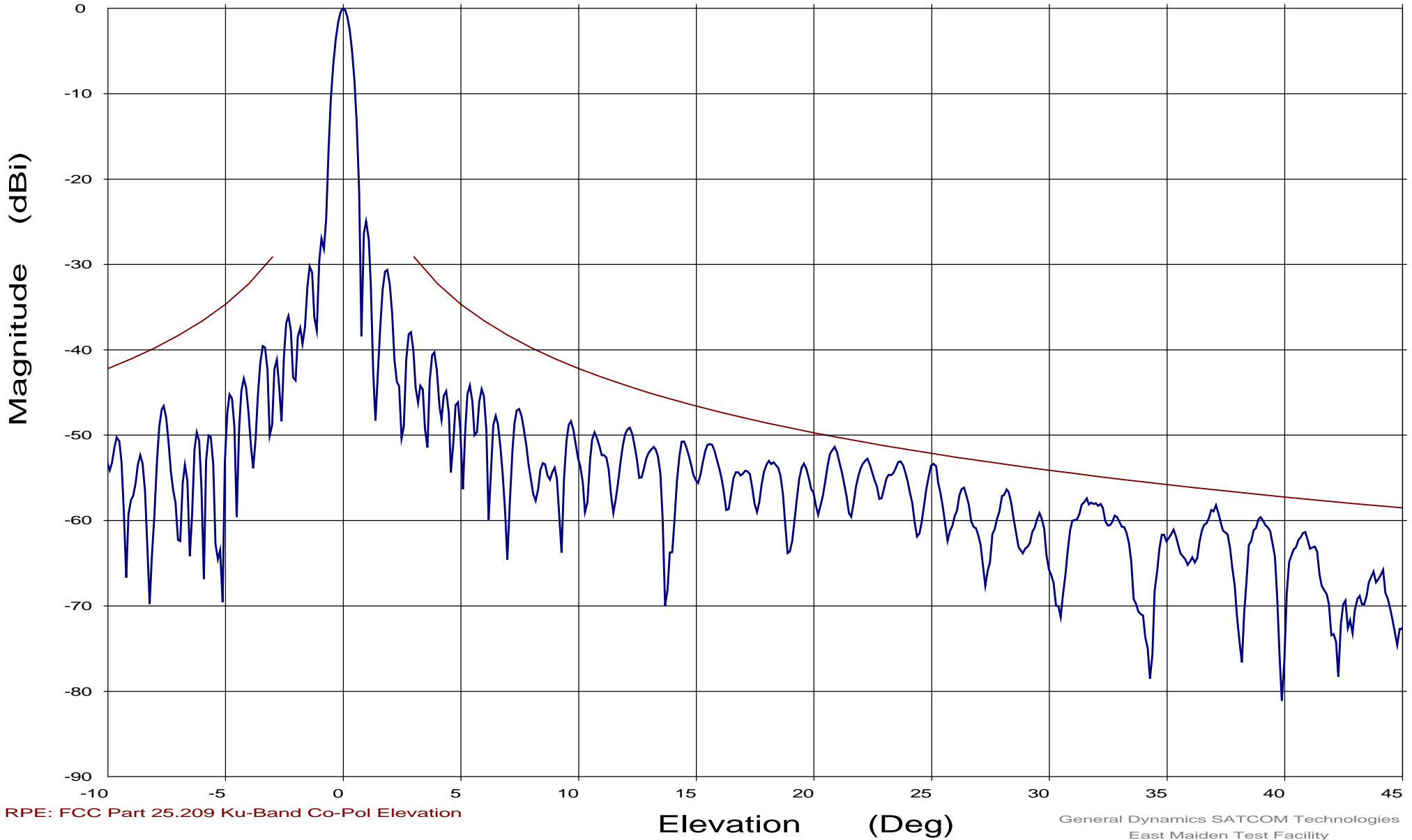
RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



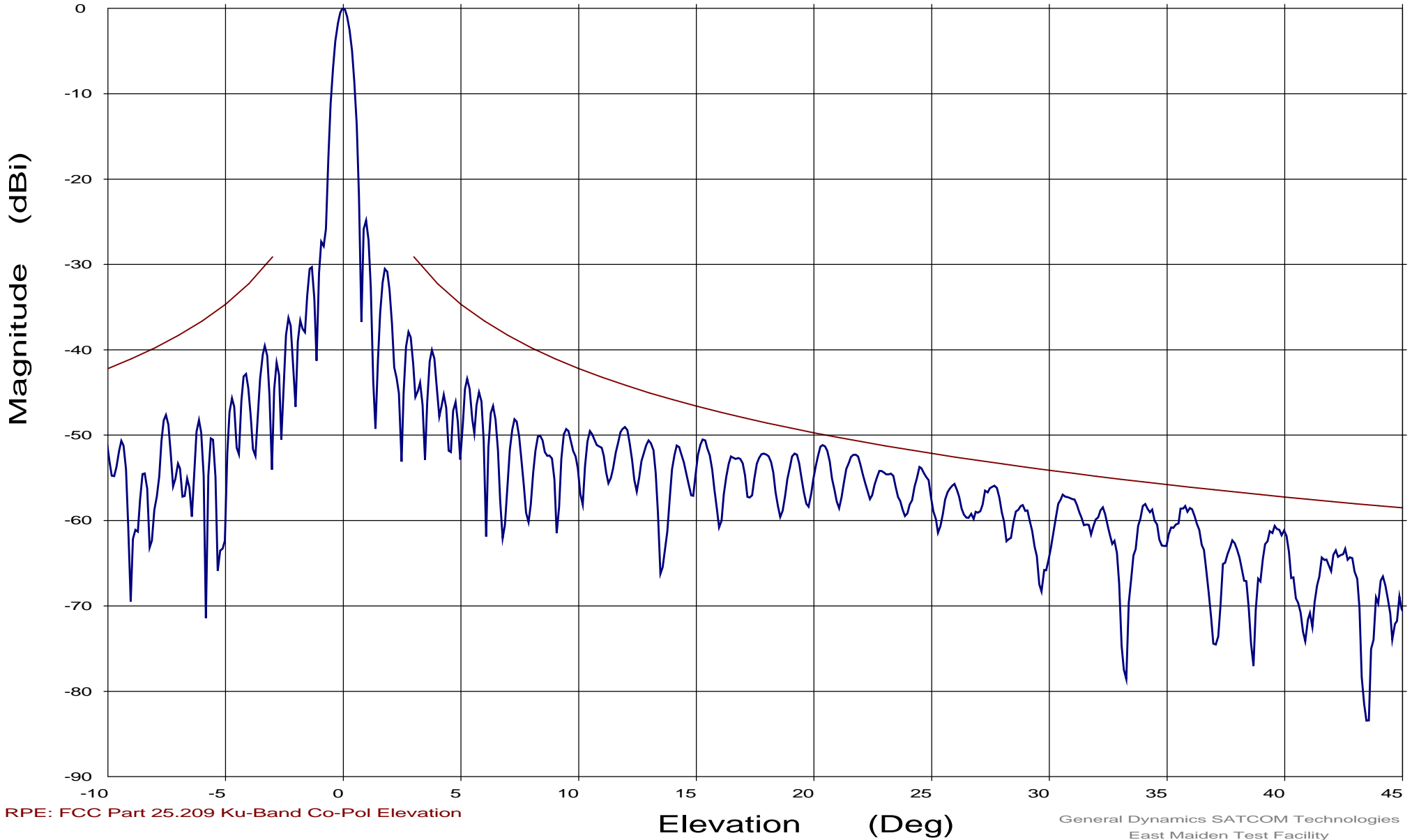
RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



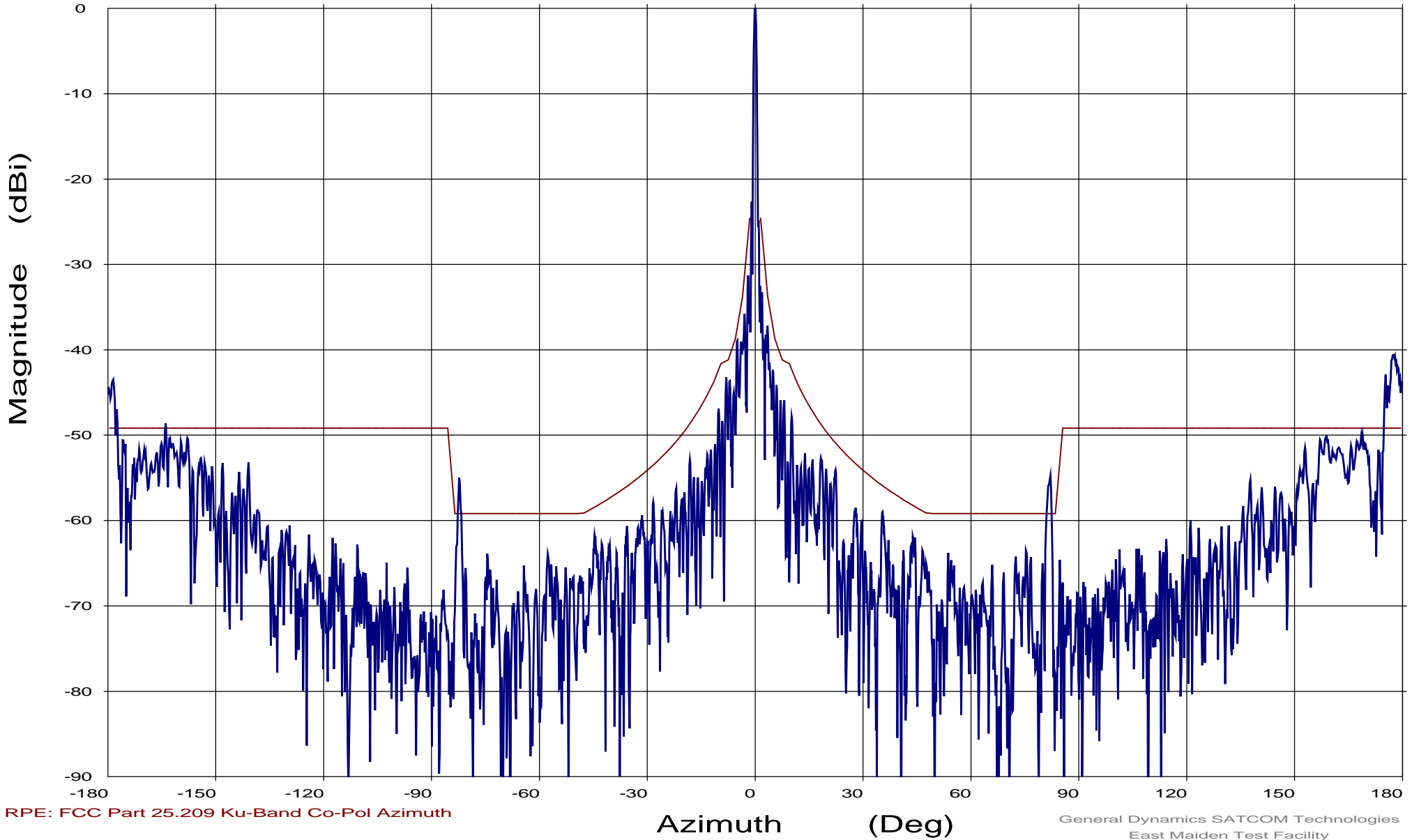
RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



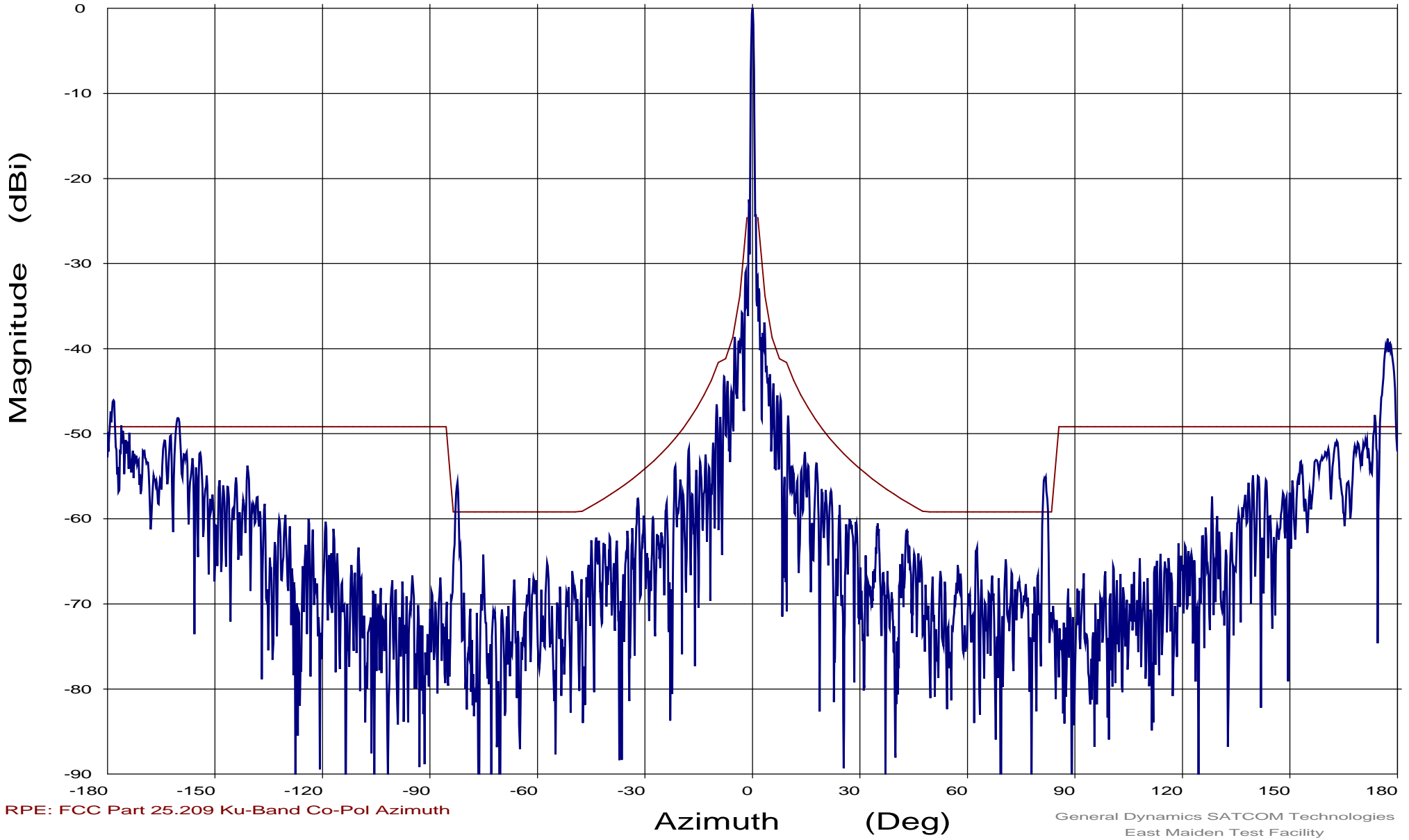
RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



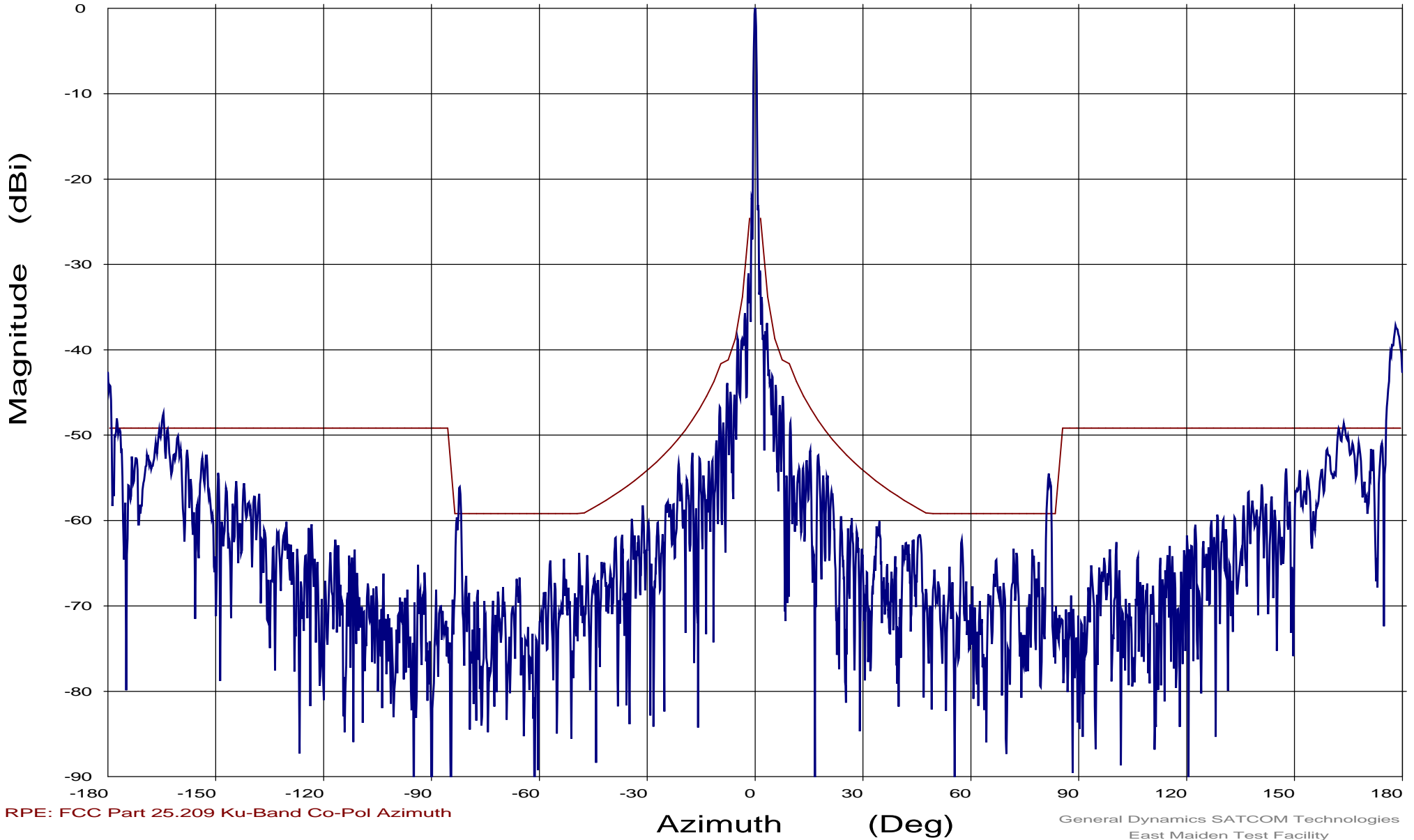
RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



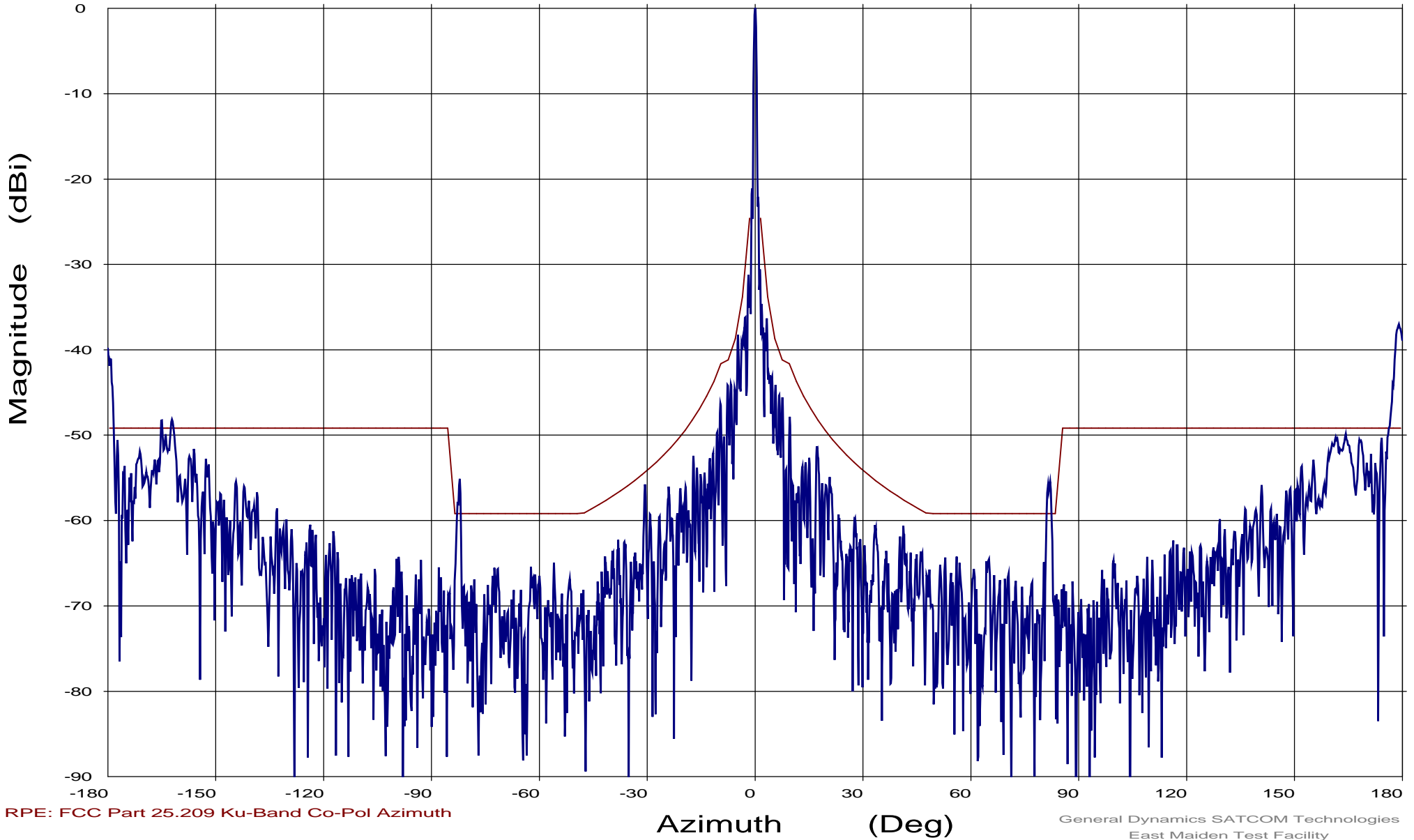
RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth



Vertical Polarity Radiation Patterns

Receive

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

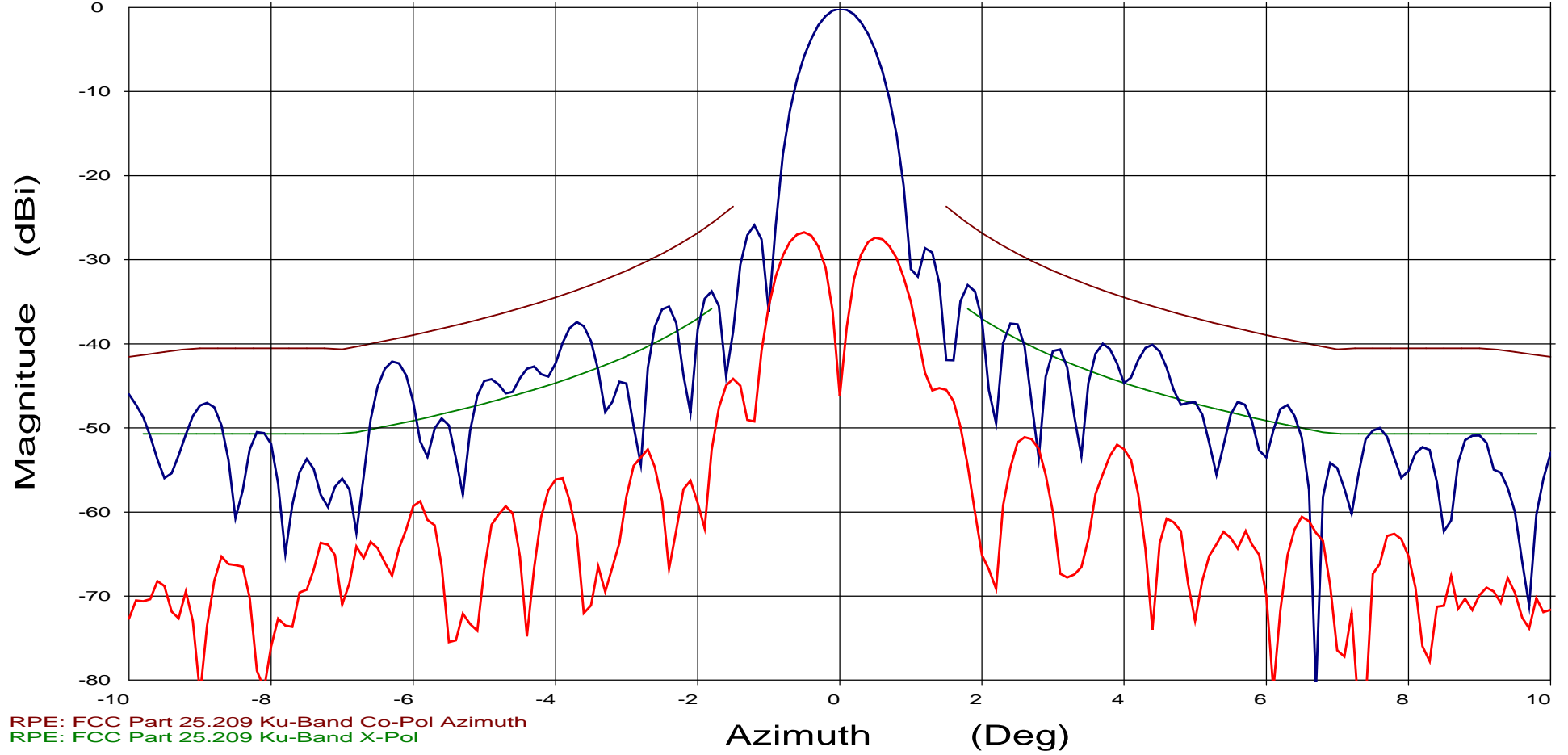
Frequency : 10.950 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

2437-1667 - 07.dat-ant_under_test

2437-1667 - 10.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

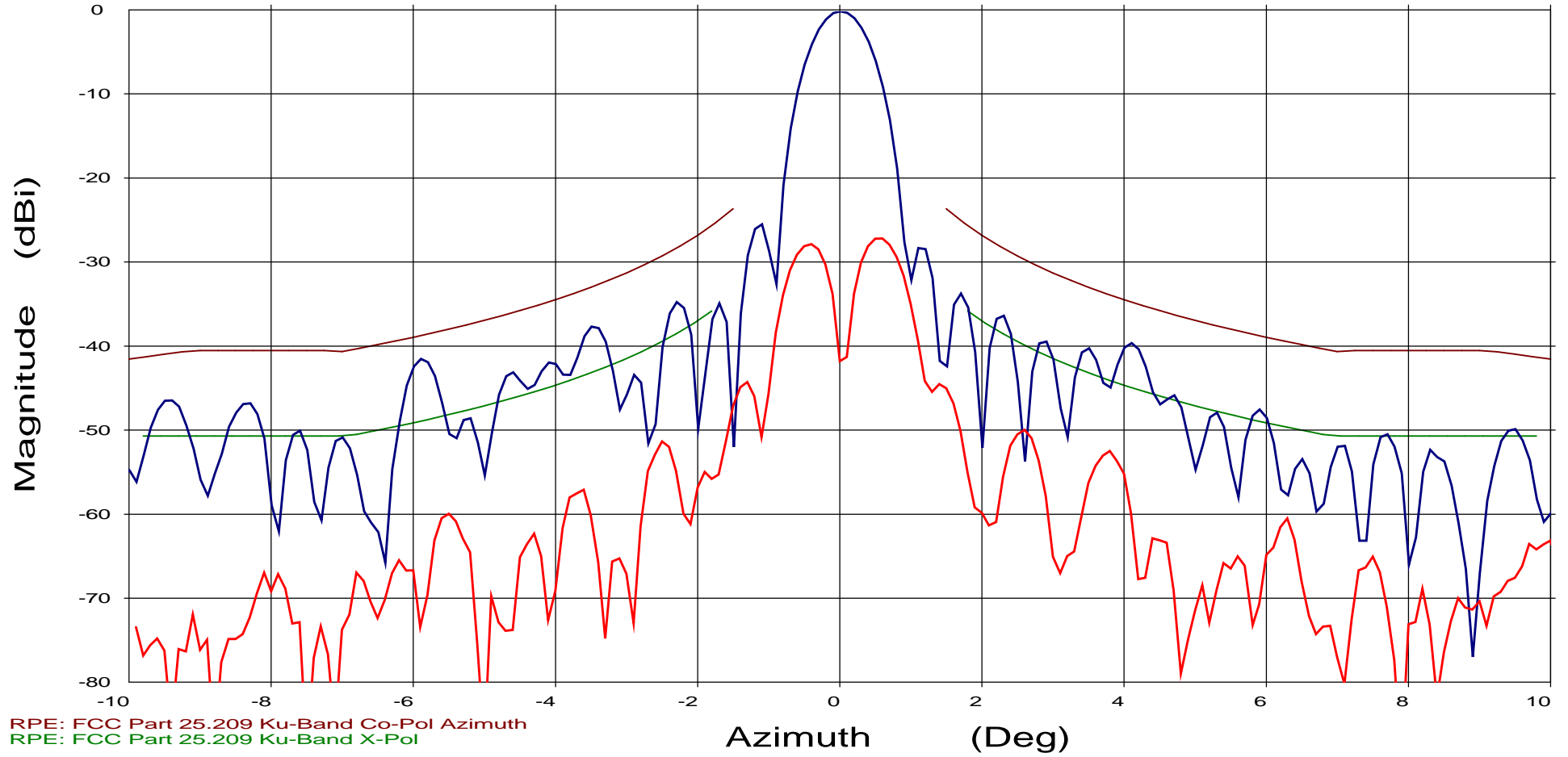
Frequency : 11.700 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

2437-1667 - 07.dat-ant_under_test

2437-1667 - 10.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

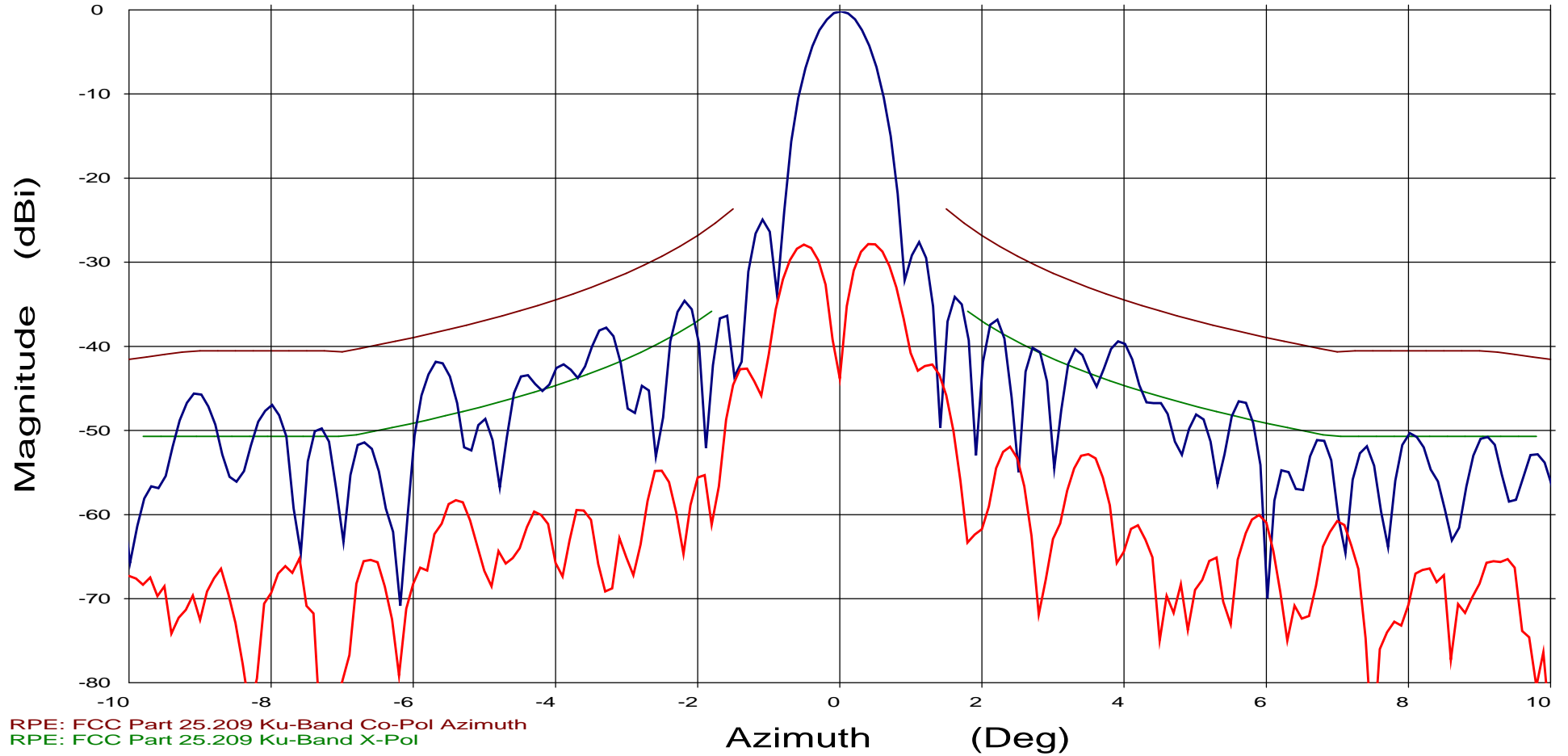
Frequency : 12.200 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth
RPE: FCC Part 25.209 Ku-Band X-Pol

Overlays
2437-1667 - 07.dat-ant_under_test
2437-1667 - 10.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

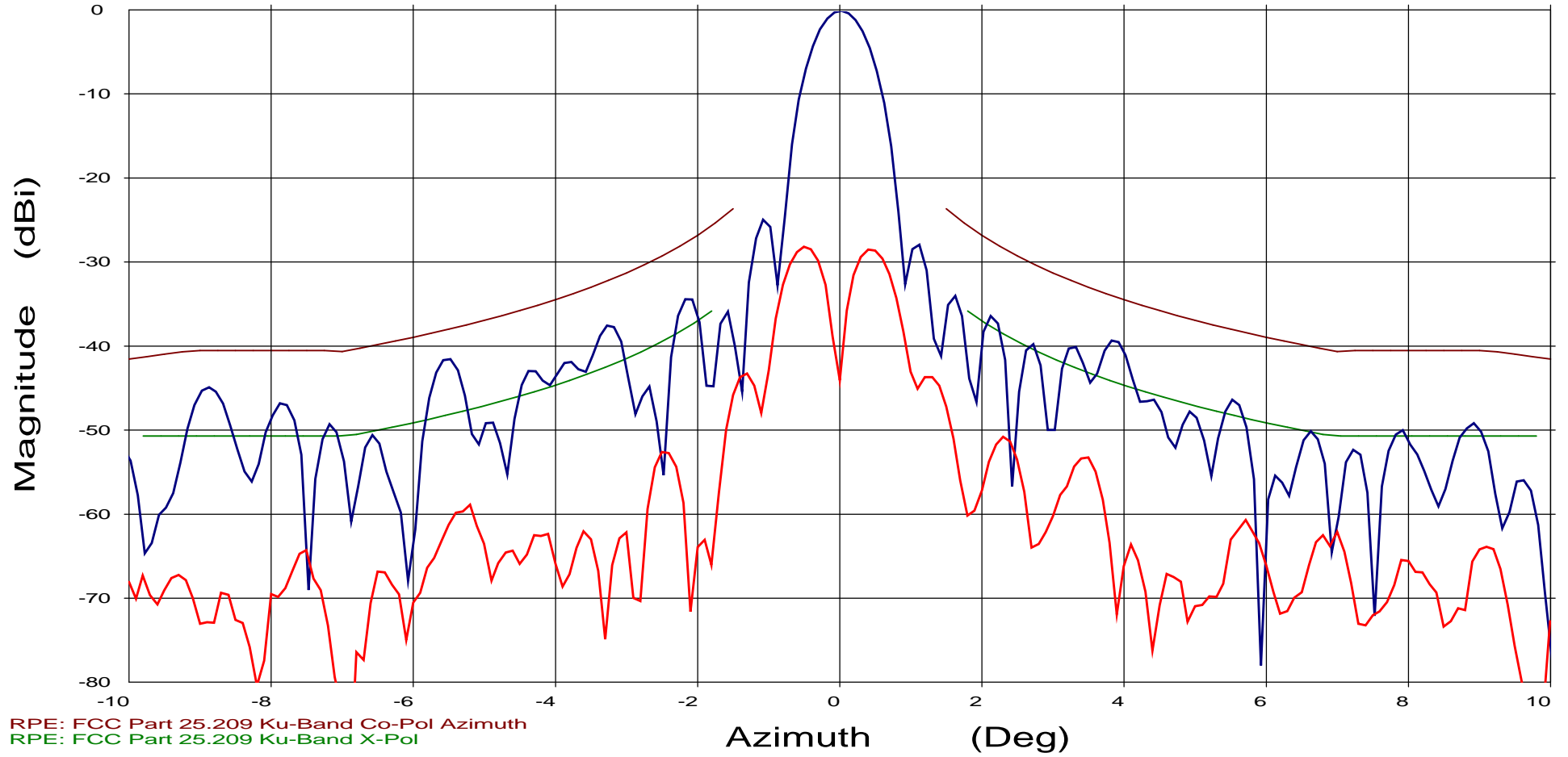
Frequency : 12.450 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth
RPE: FCC Part 25.209 Ku-Band X-Pol

Overlays
2437-1667 - 07.dat-ant_under_test
2437-1667 - 10.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

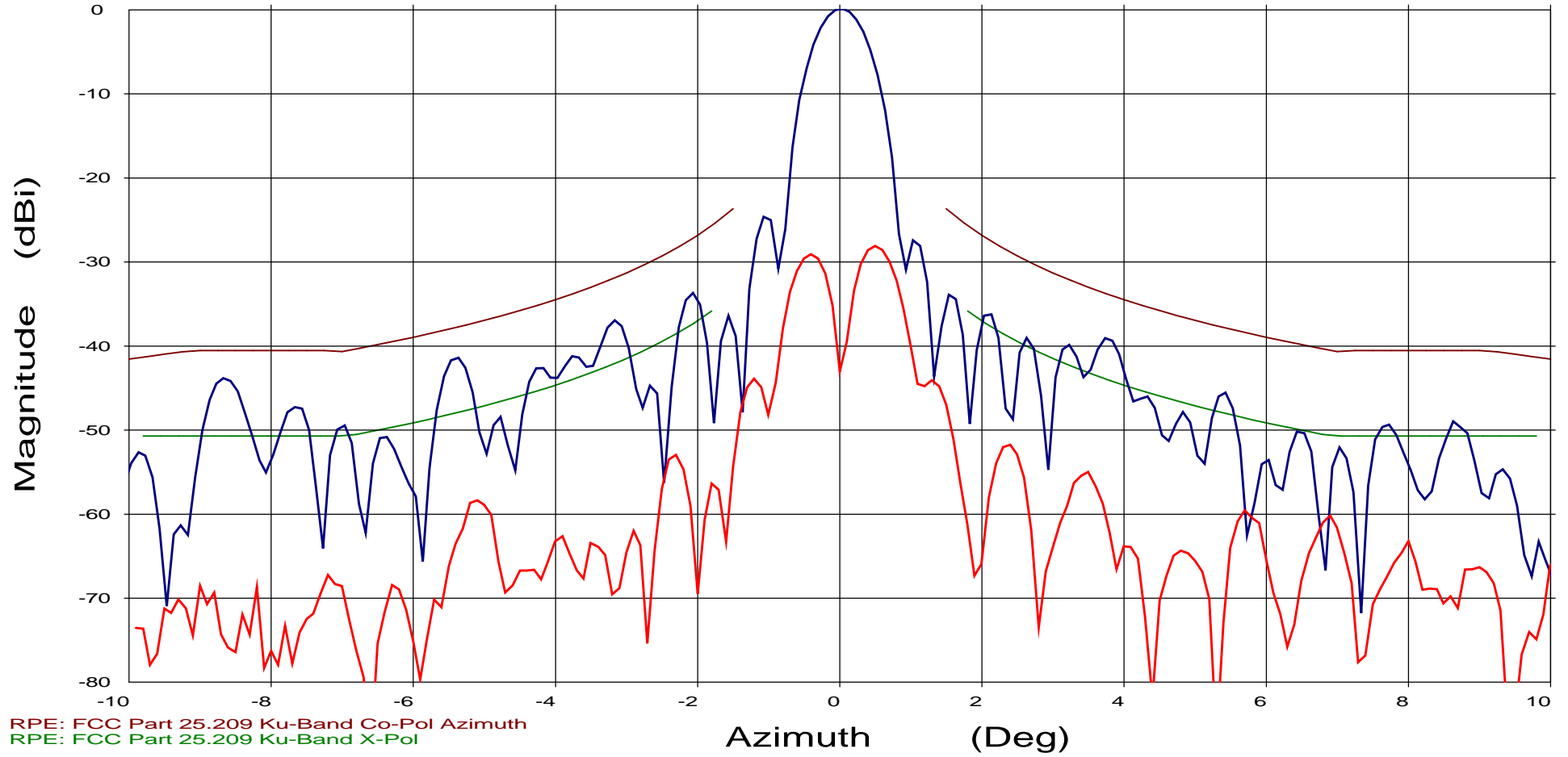
Frequency : 12.750 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

2437-1667 - 07.dat-ant_under_test

2437-1667 - 10.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

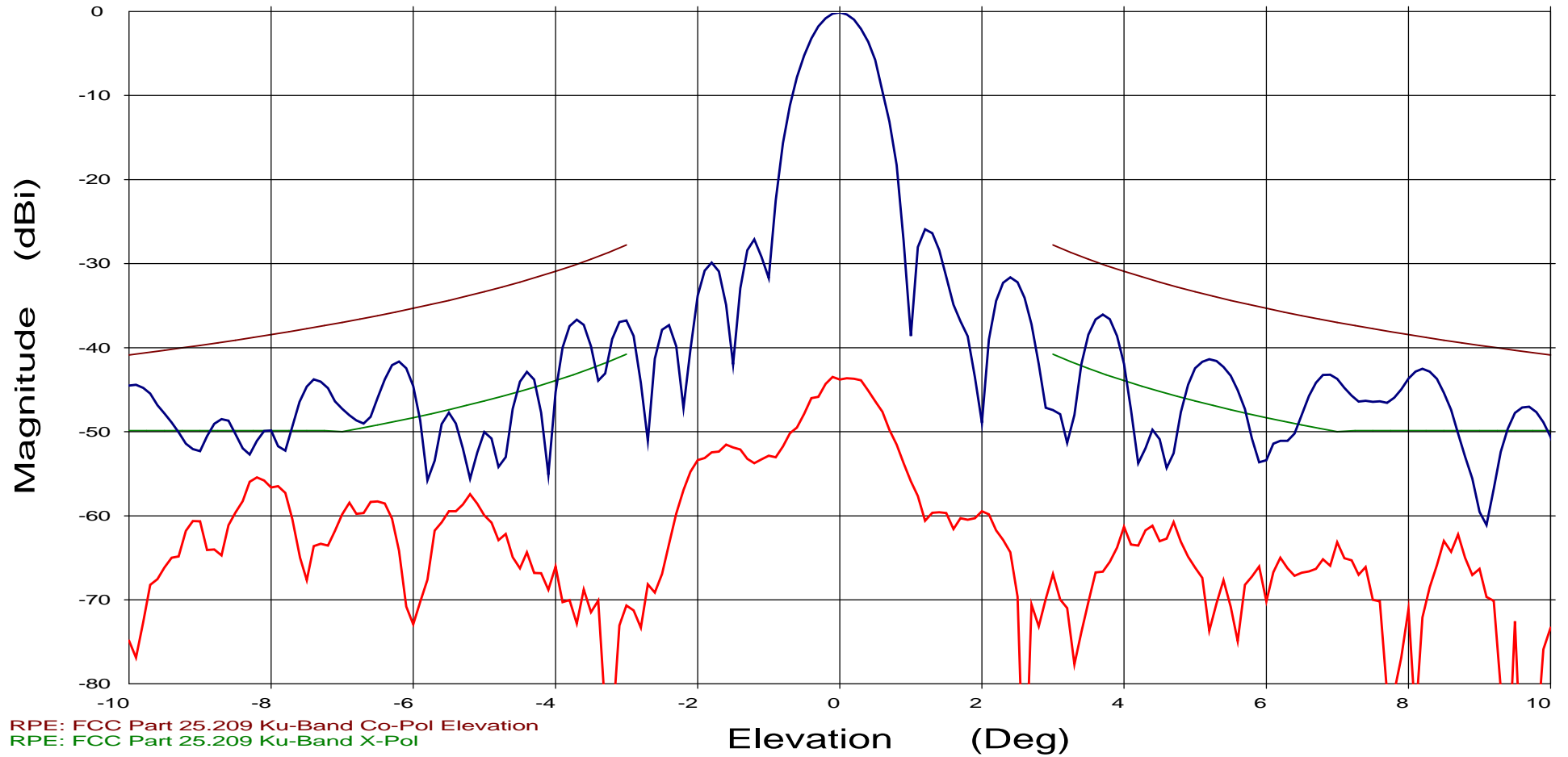
Frequency : 10.950 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

2437-1667 - 11.dat-ant_under_test

2437-1667 - 25.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

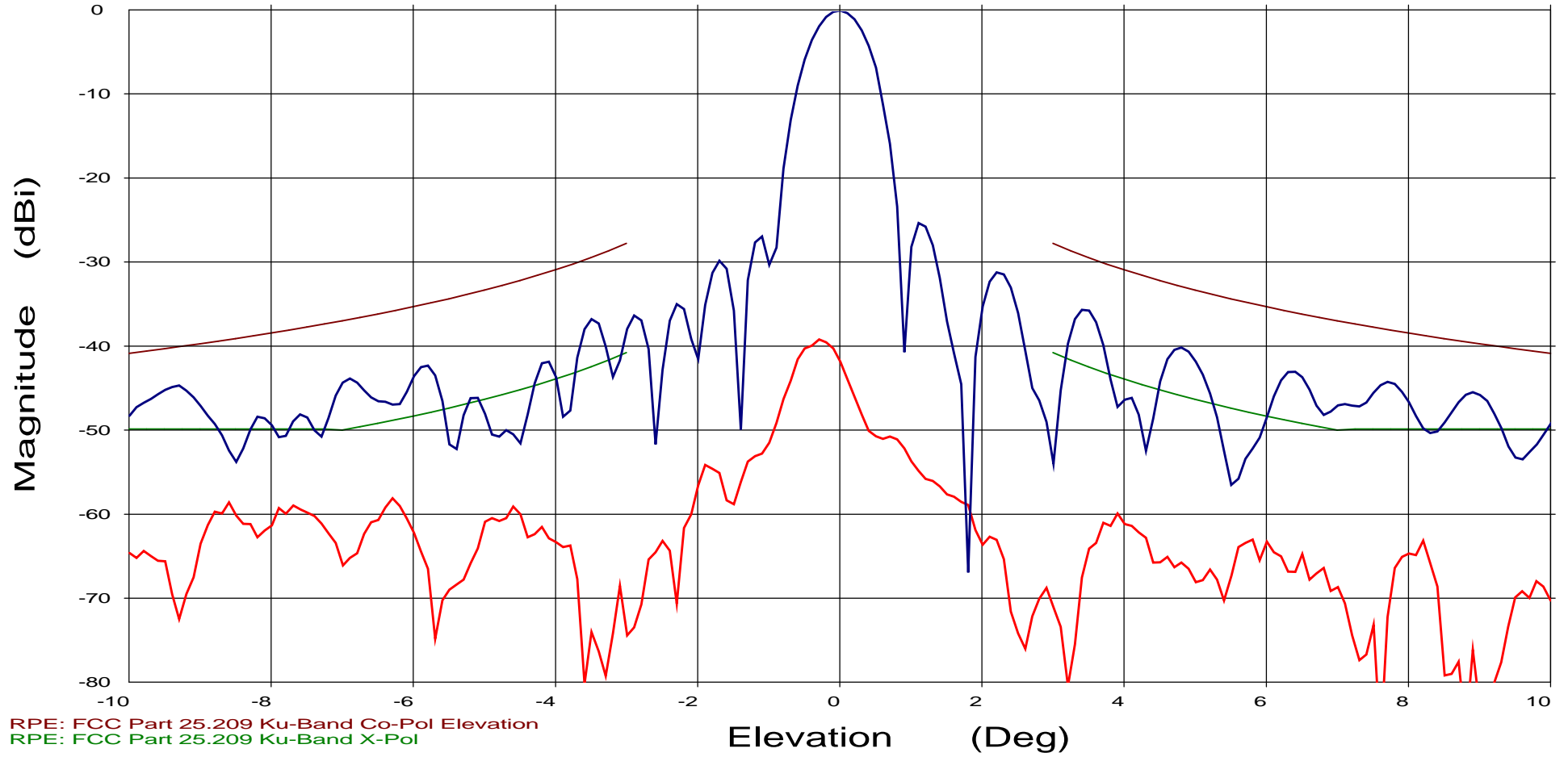
Frequency : 11.700 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

2437-1667 - 11.dat-ant_under_test

2437-1667 - 25.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

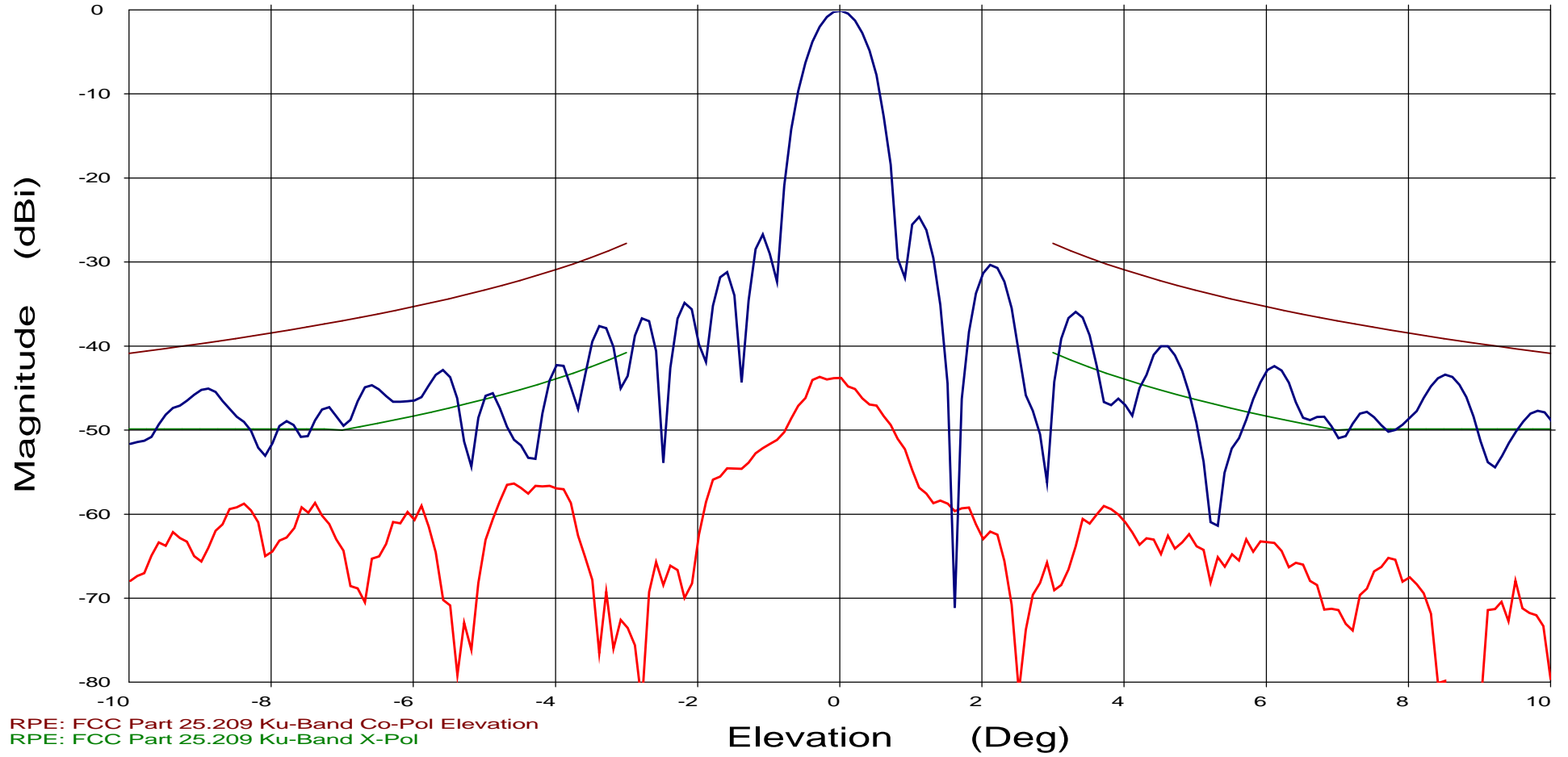
Frequency : 12.200 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation
RPE: FCC Part 25.209 Ku-Band X-Pol

Overlays
2437-1667 - 11.dat-ant_under_test
2437-1667 - 25.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

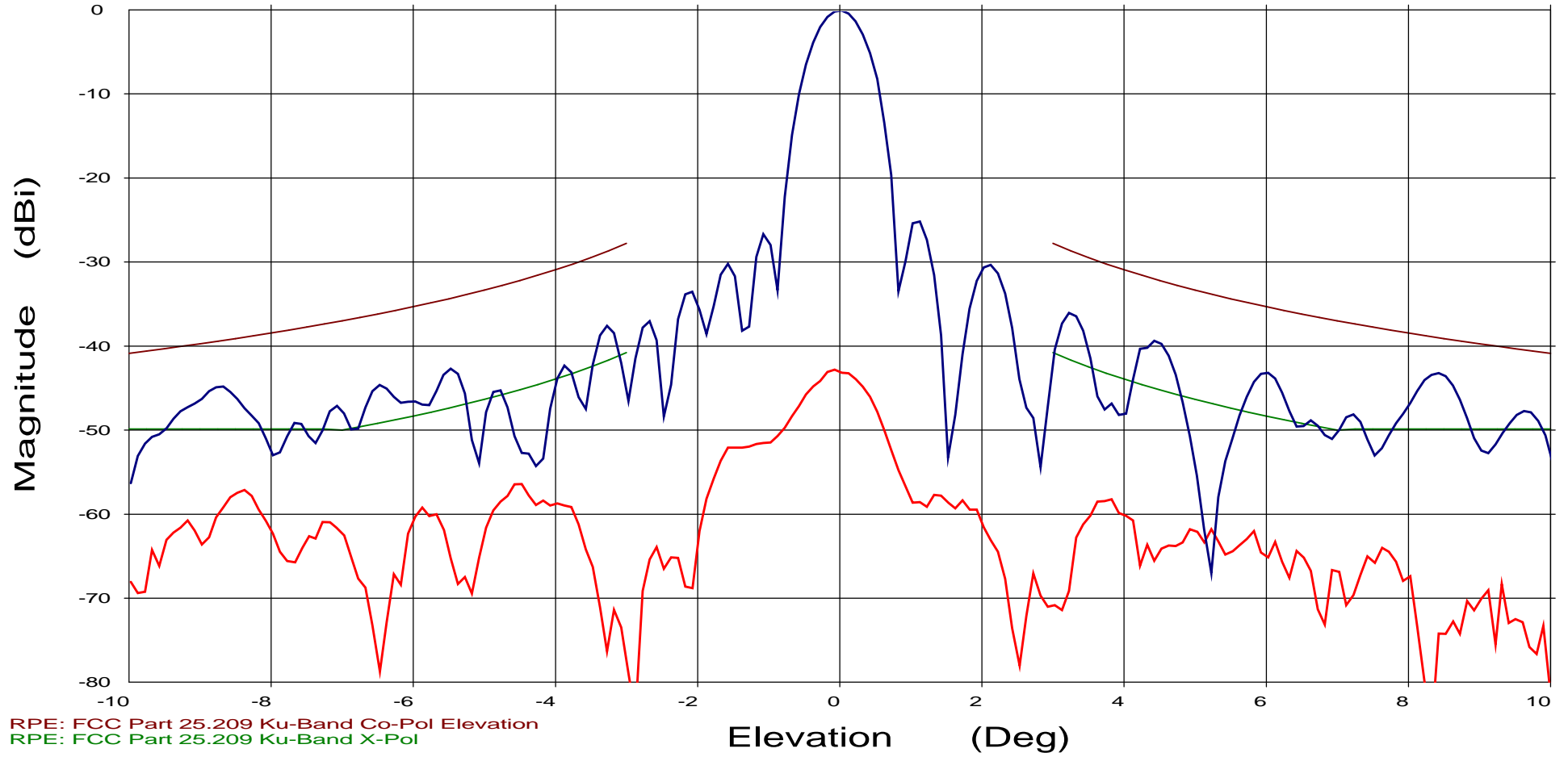
Frequency : 12.450 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

2437-1667 - 11.dat-ant_under_test

2437-1667 - 25.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

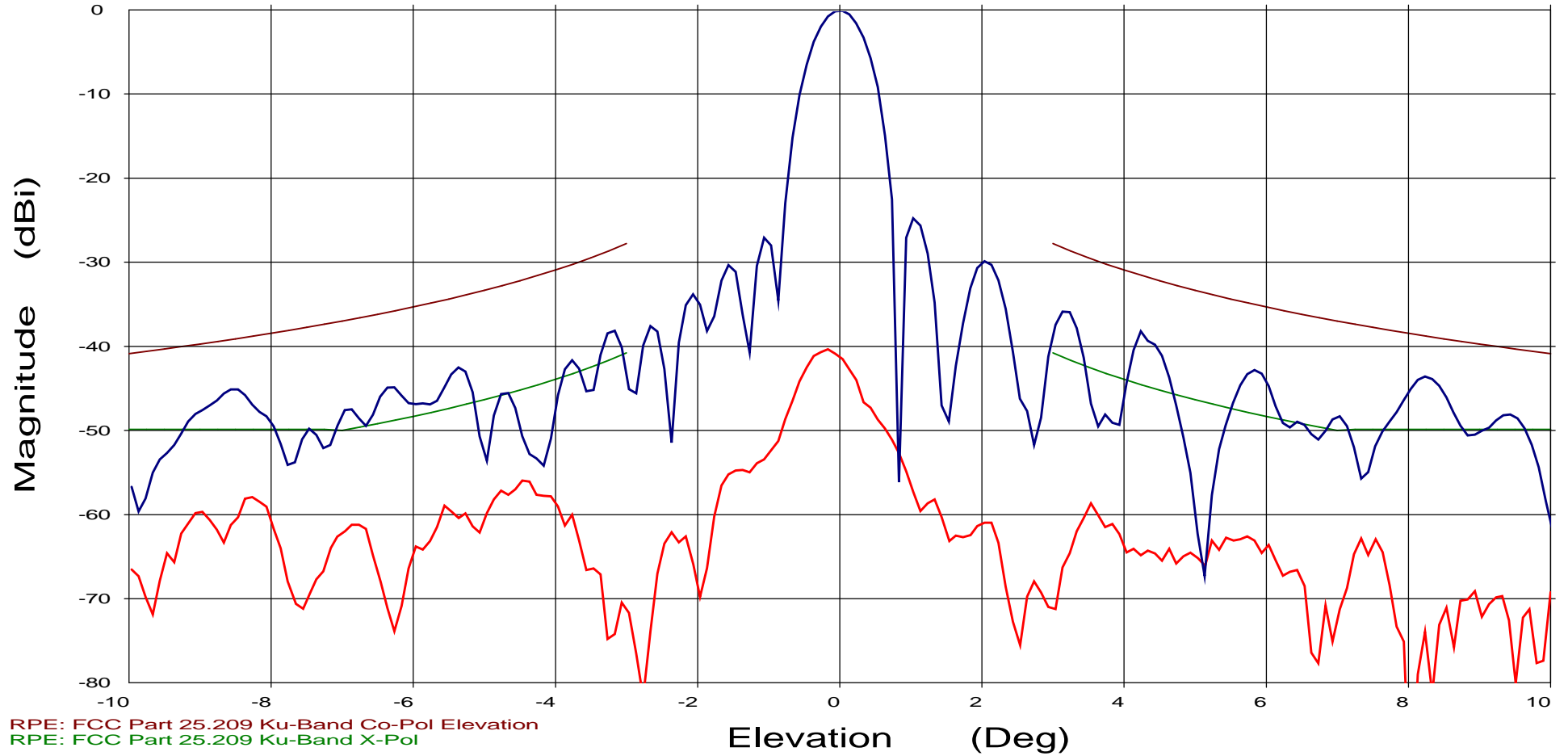
Frequency : 12.750 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



Overlays

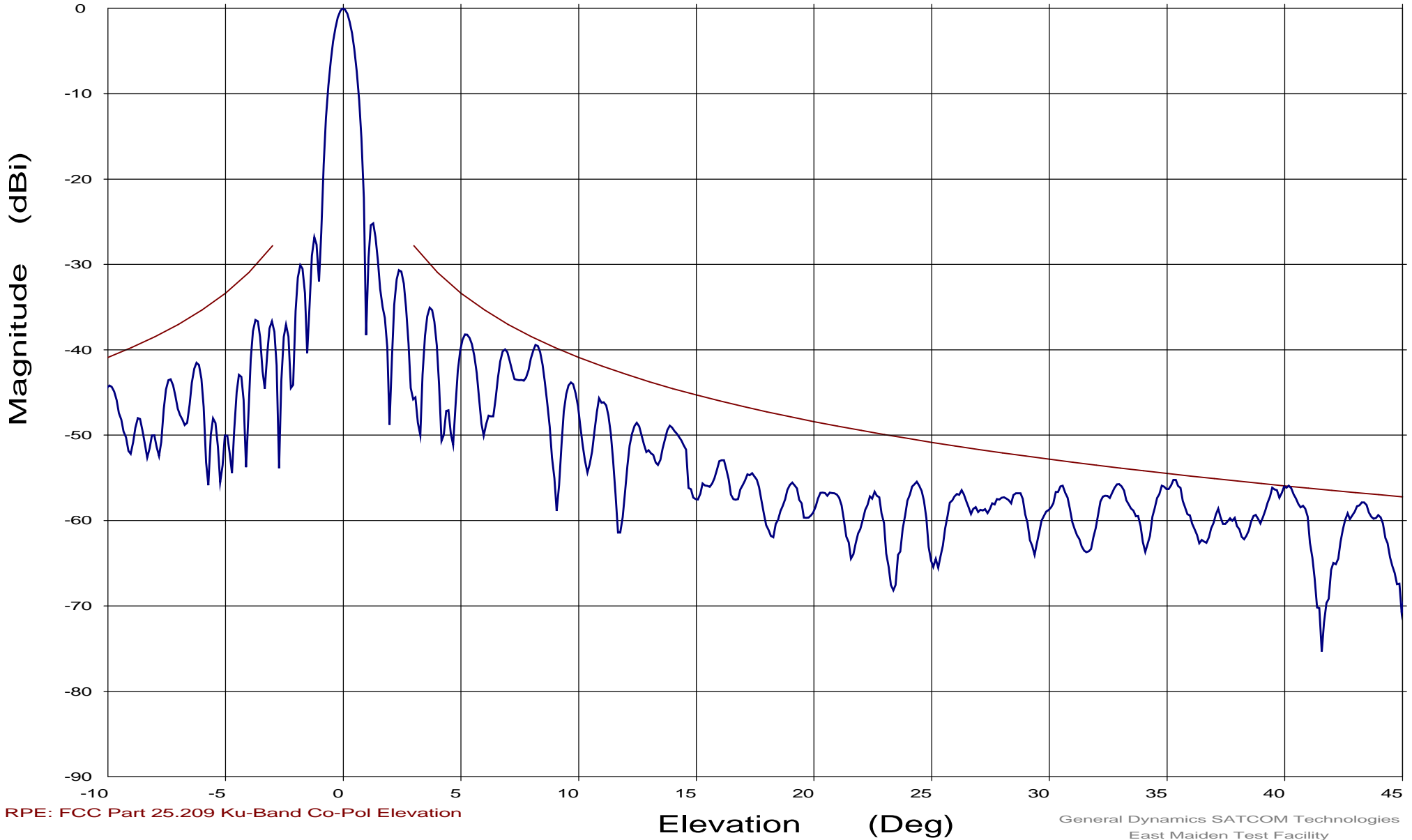
- 2437-1667 - 11.dat-ant_under_test
- 2437-1667 - 25.dat-ant_under_test

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.

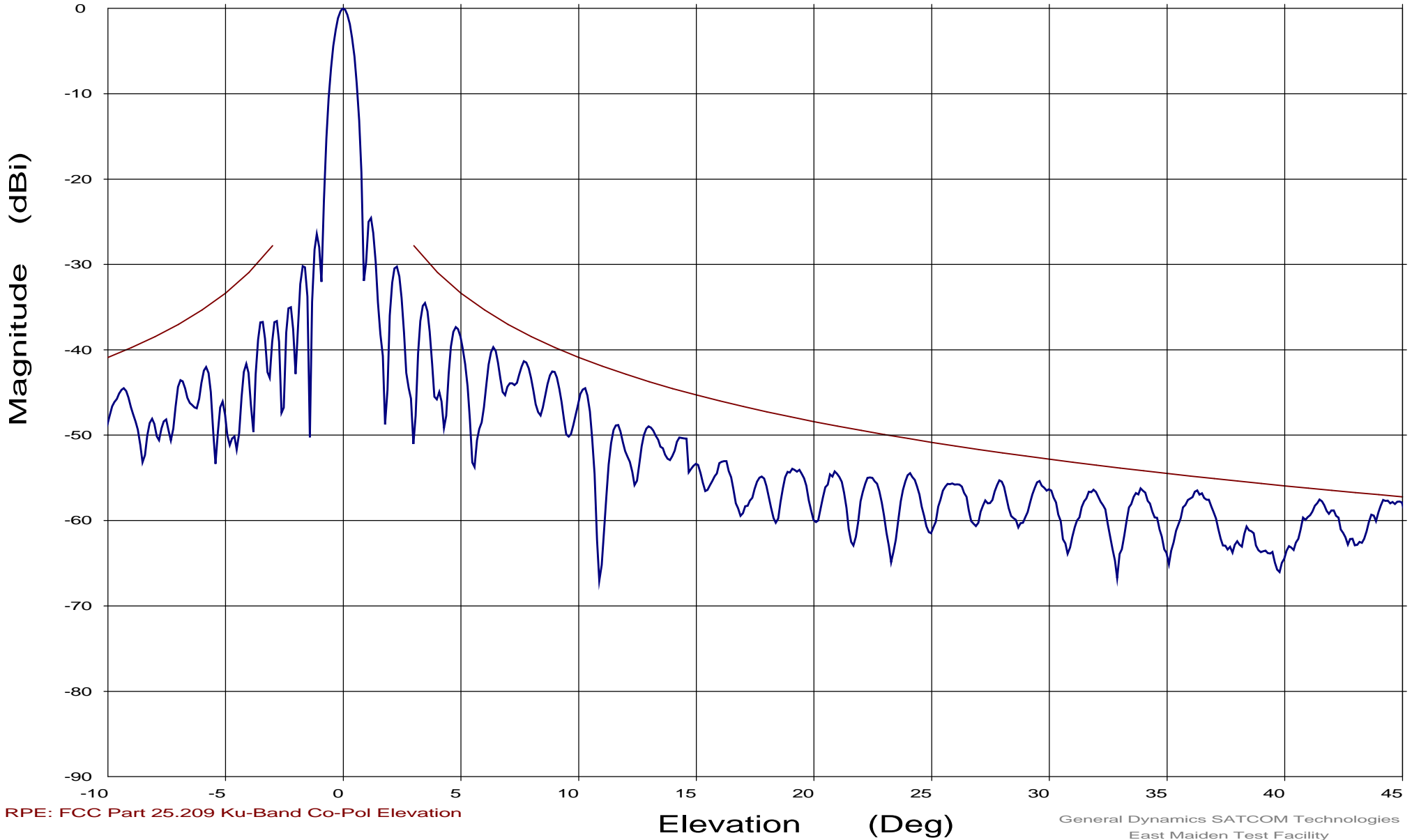


Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



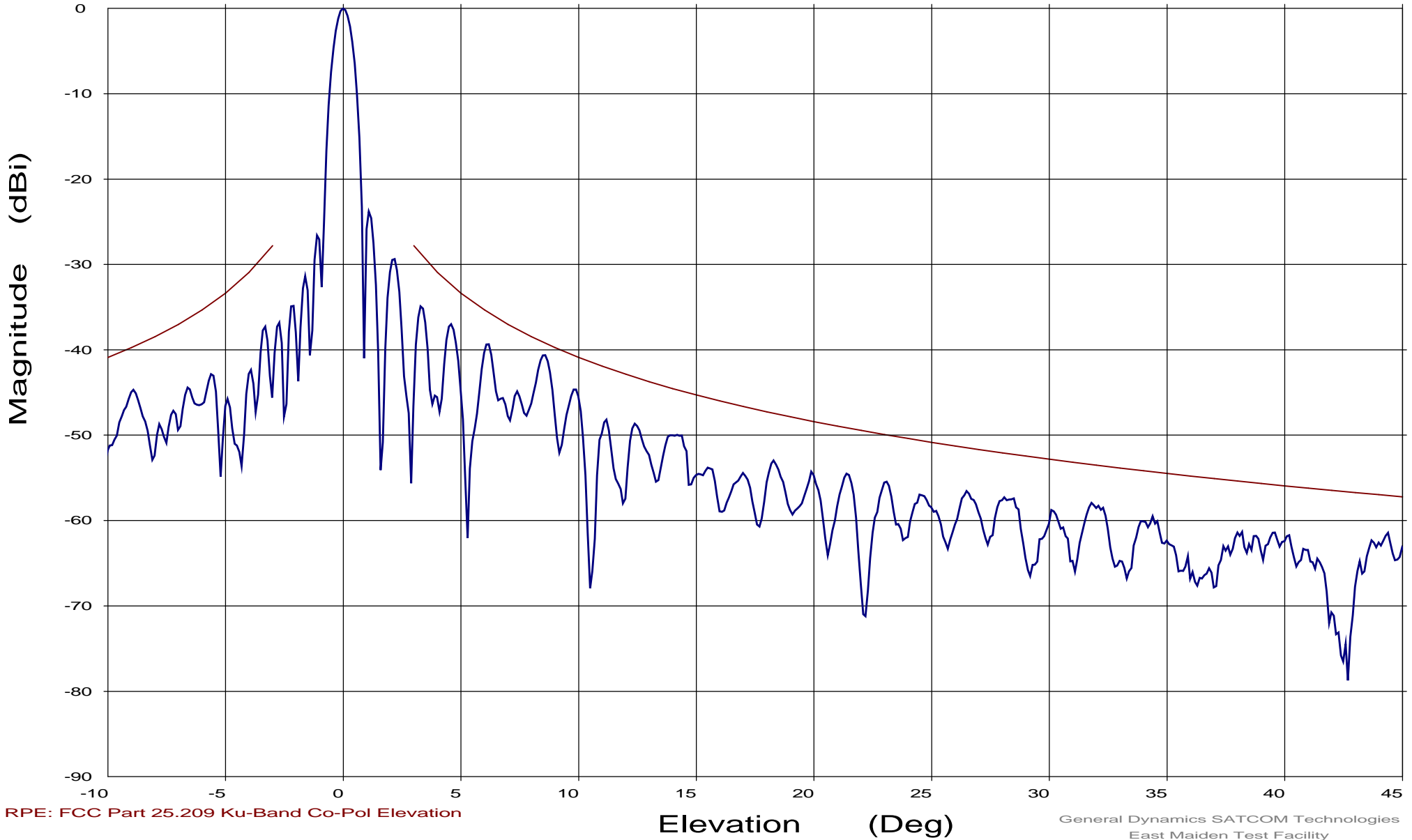
RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



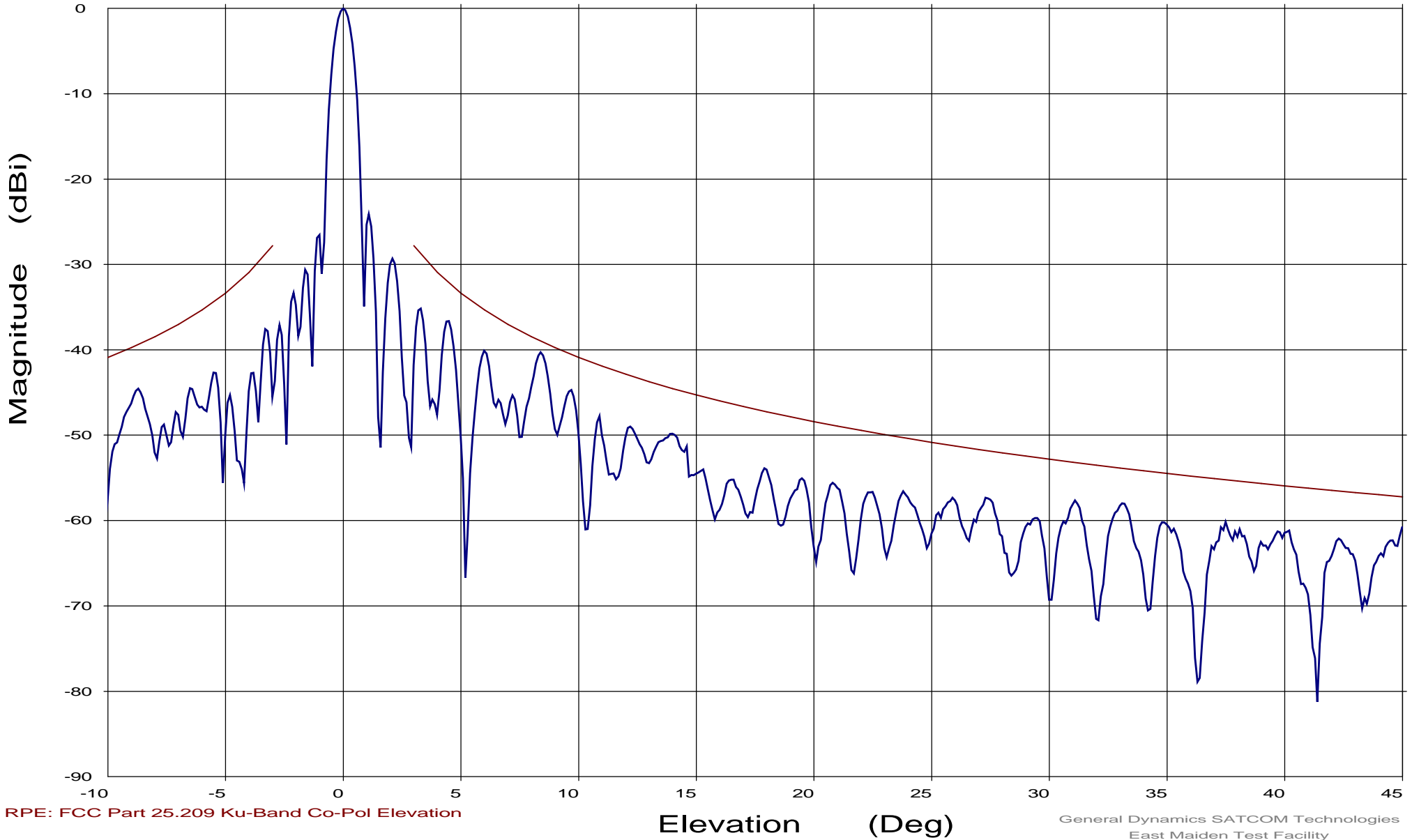
RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



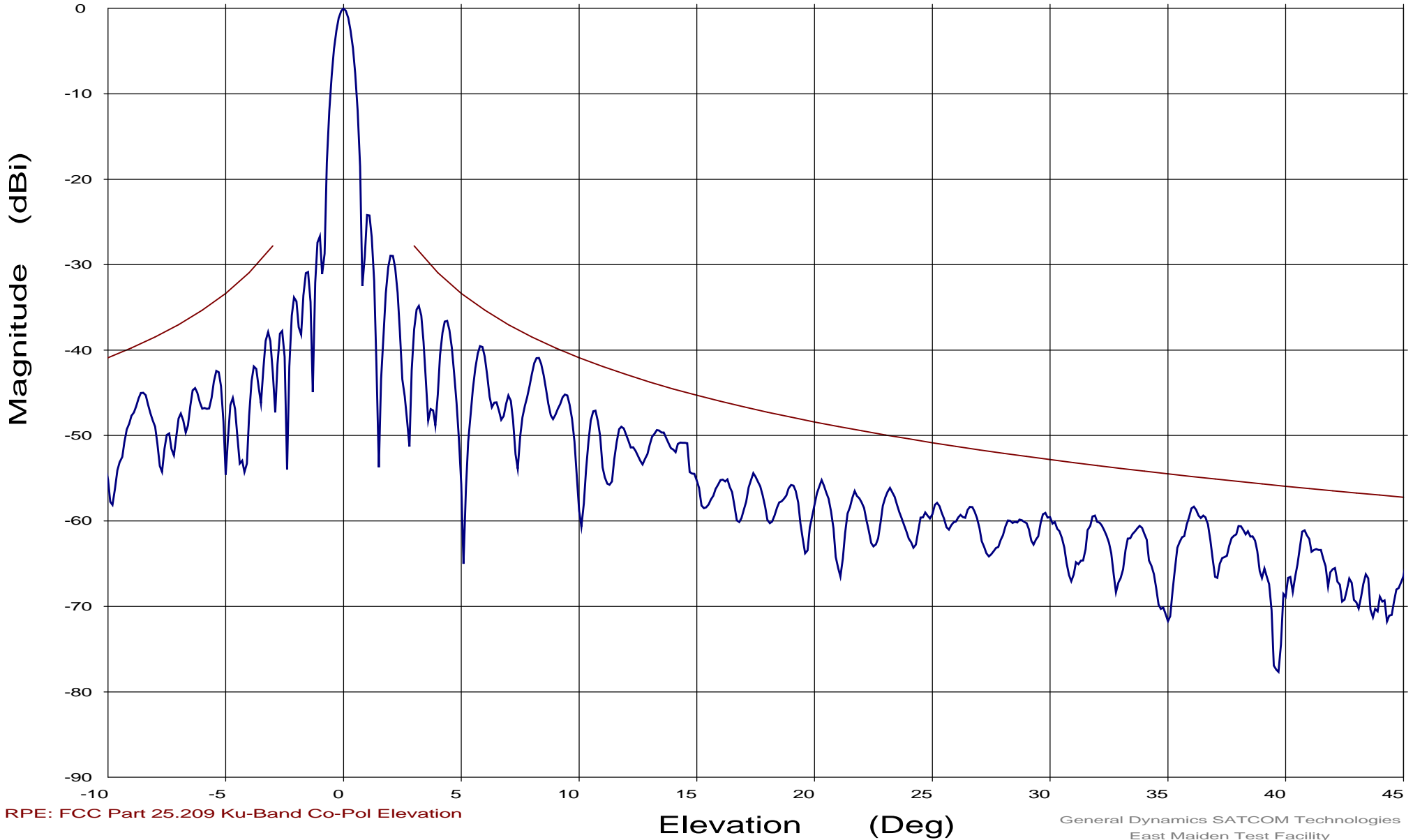
RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



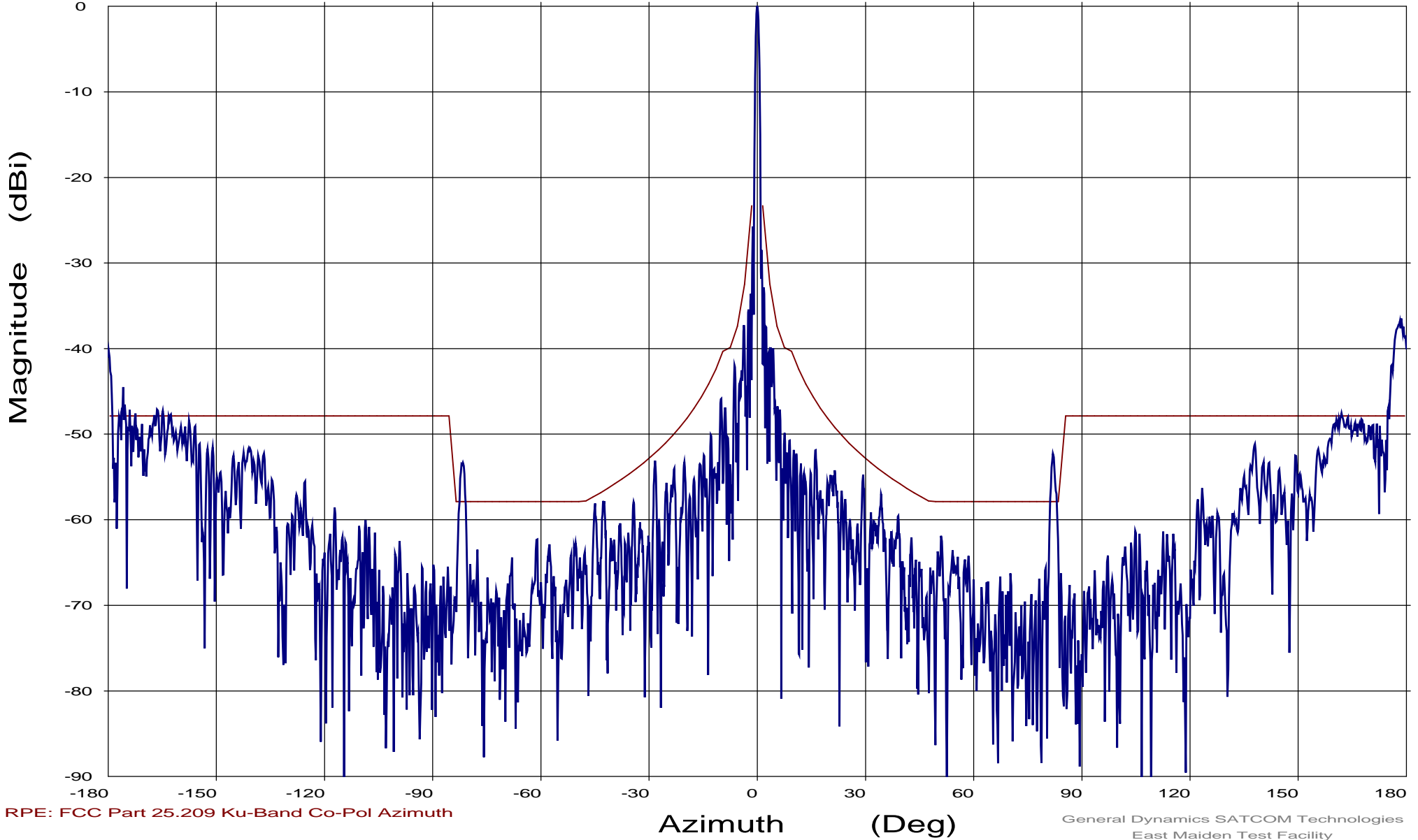
RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



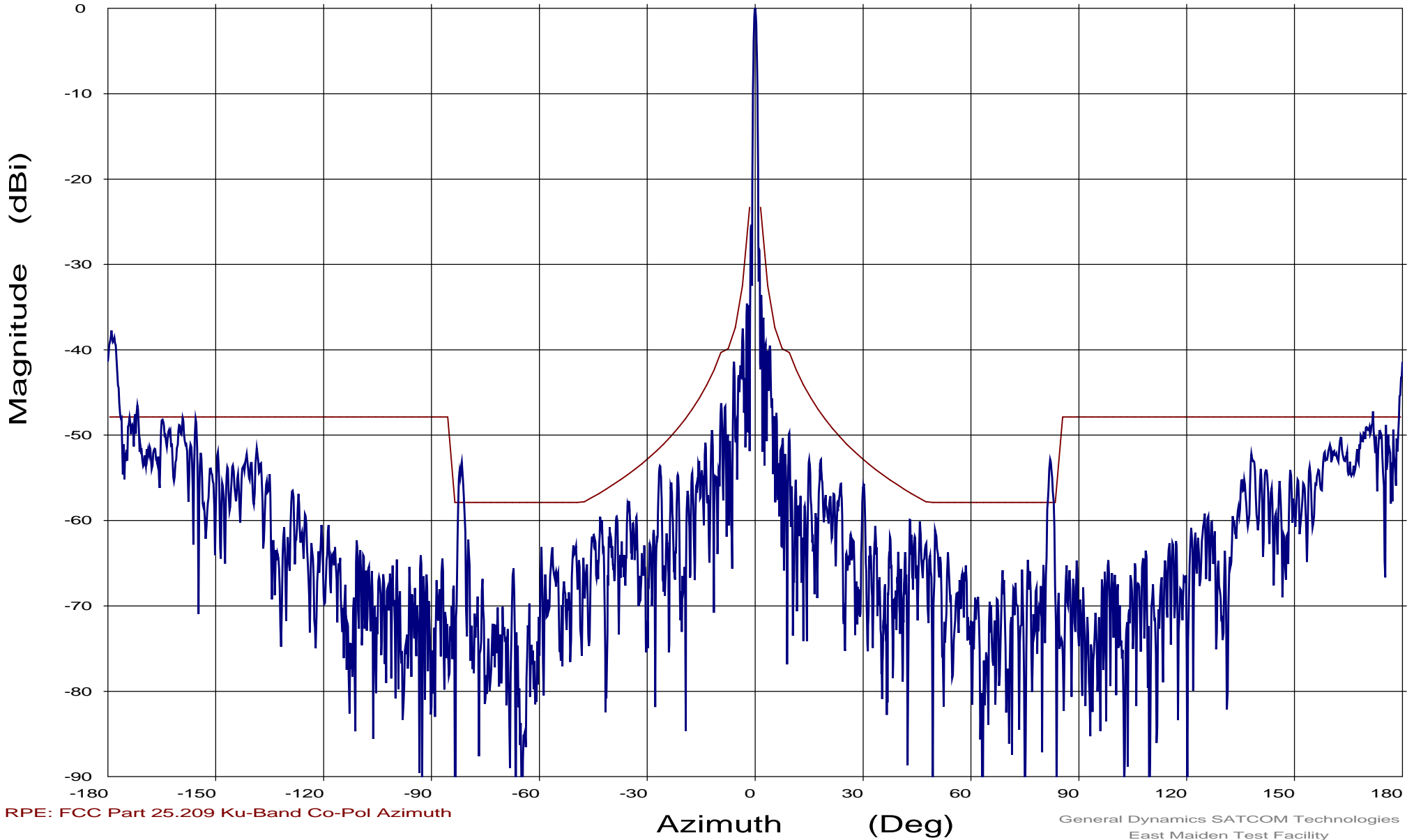
RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.

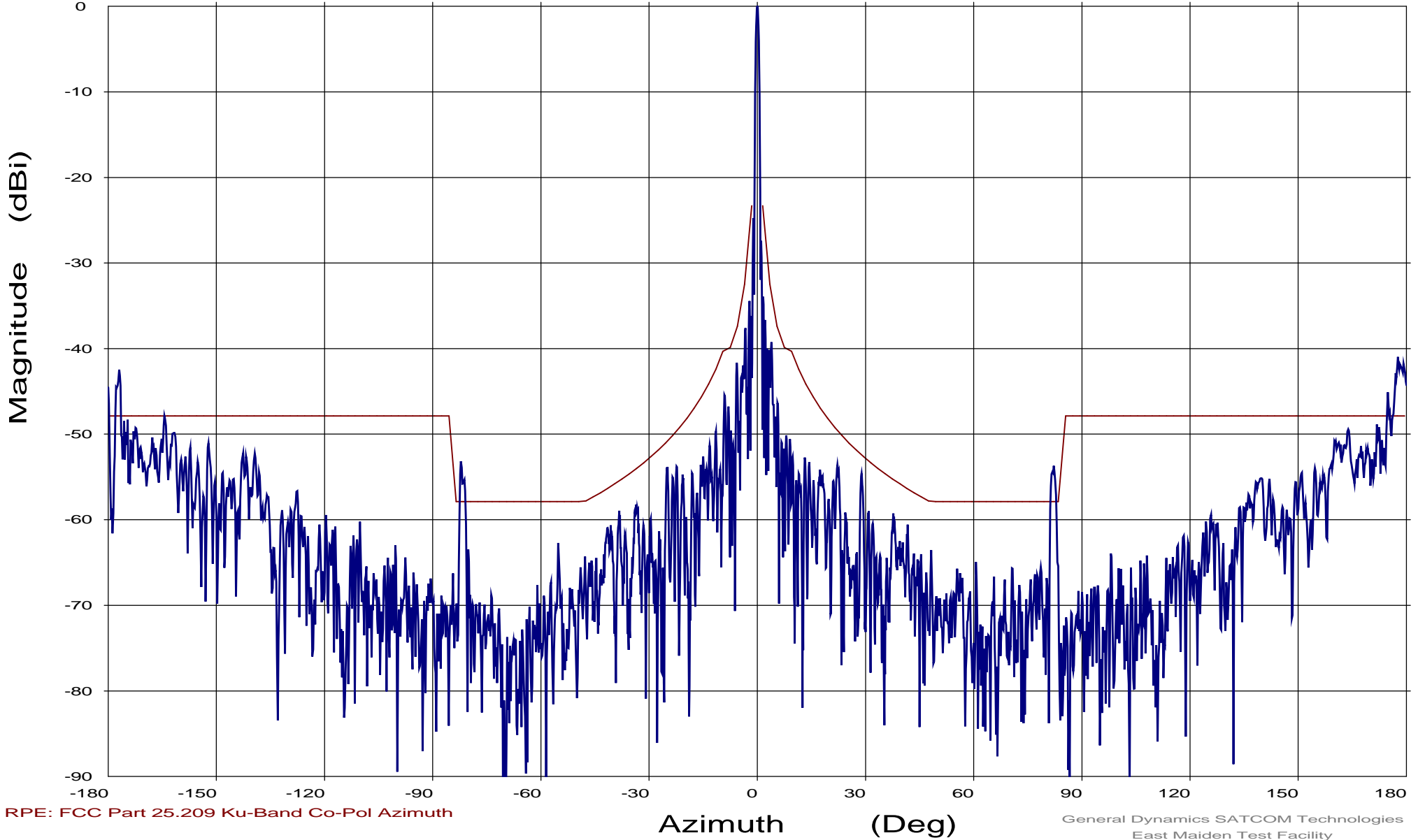


Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



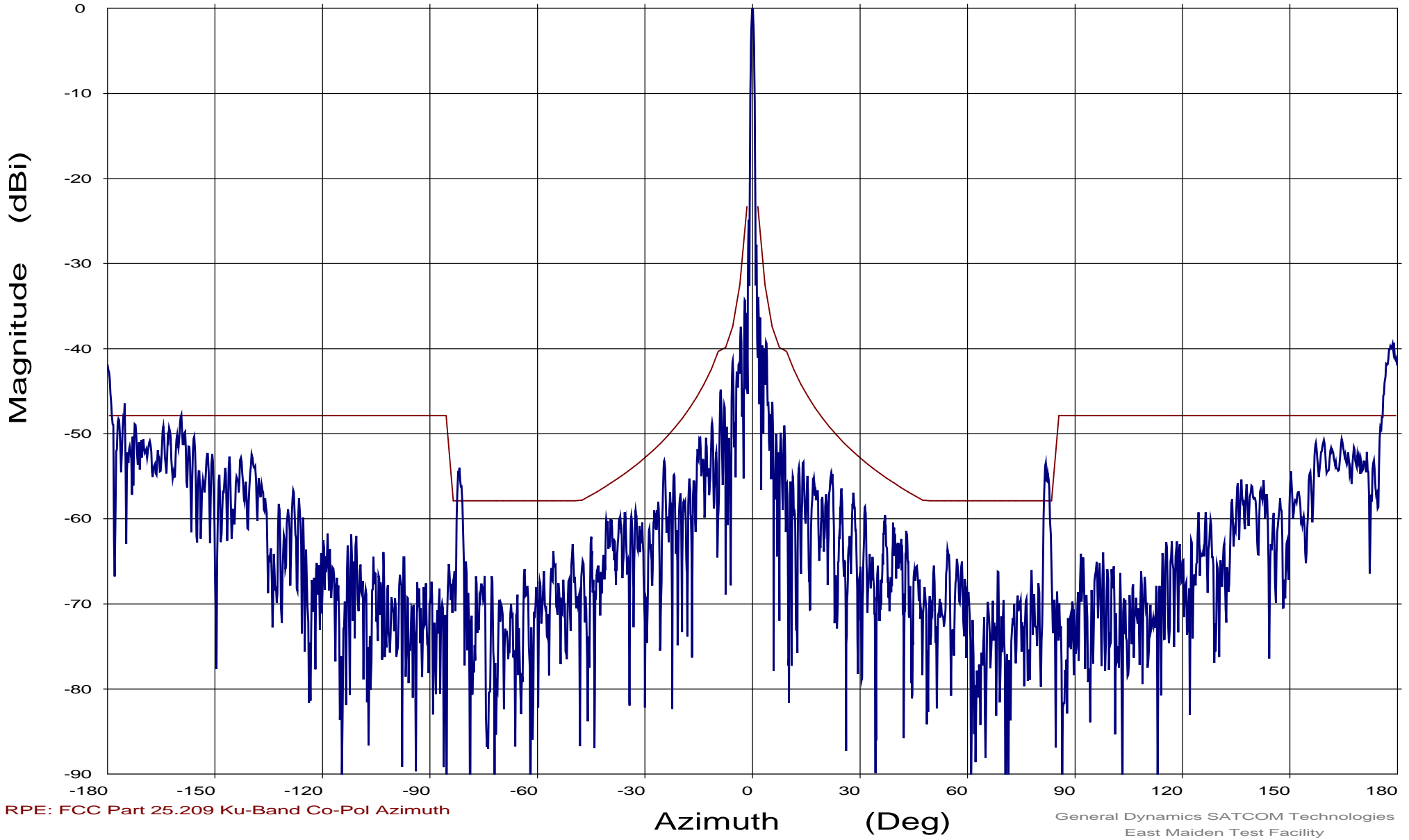
RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



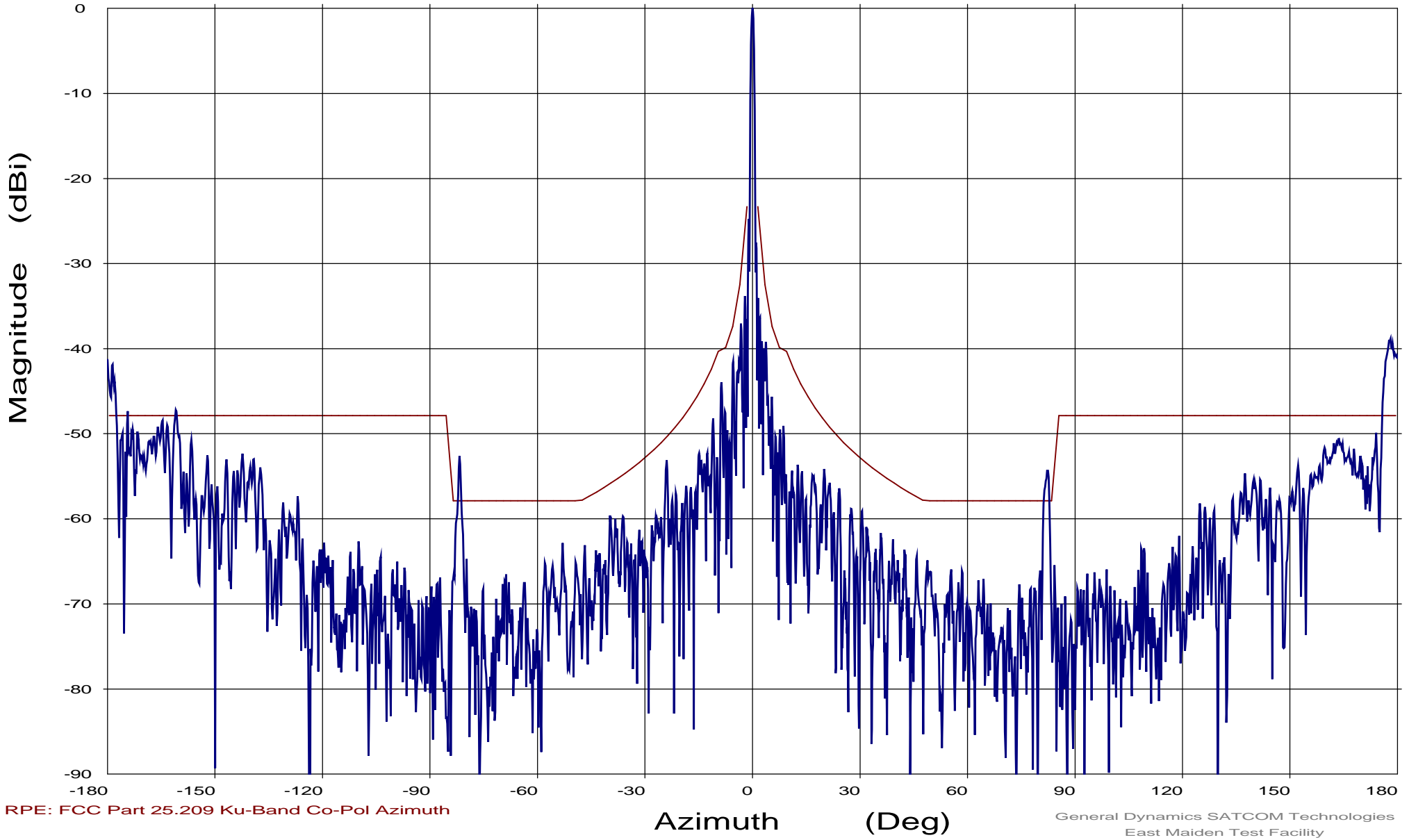
RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth

Operator: Keny Poovey

Channel: ch1

Tx pol: Vert.

Rx pol: Vert.



RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth



Horizontal Polarity Radiation Patterns

Receive

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

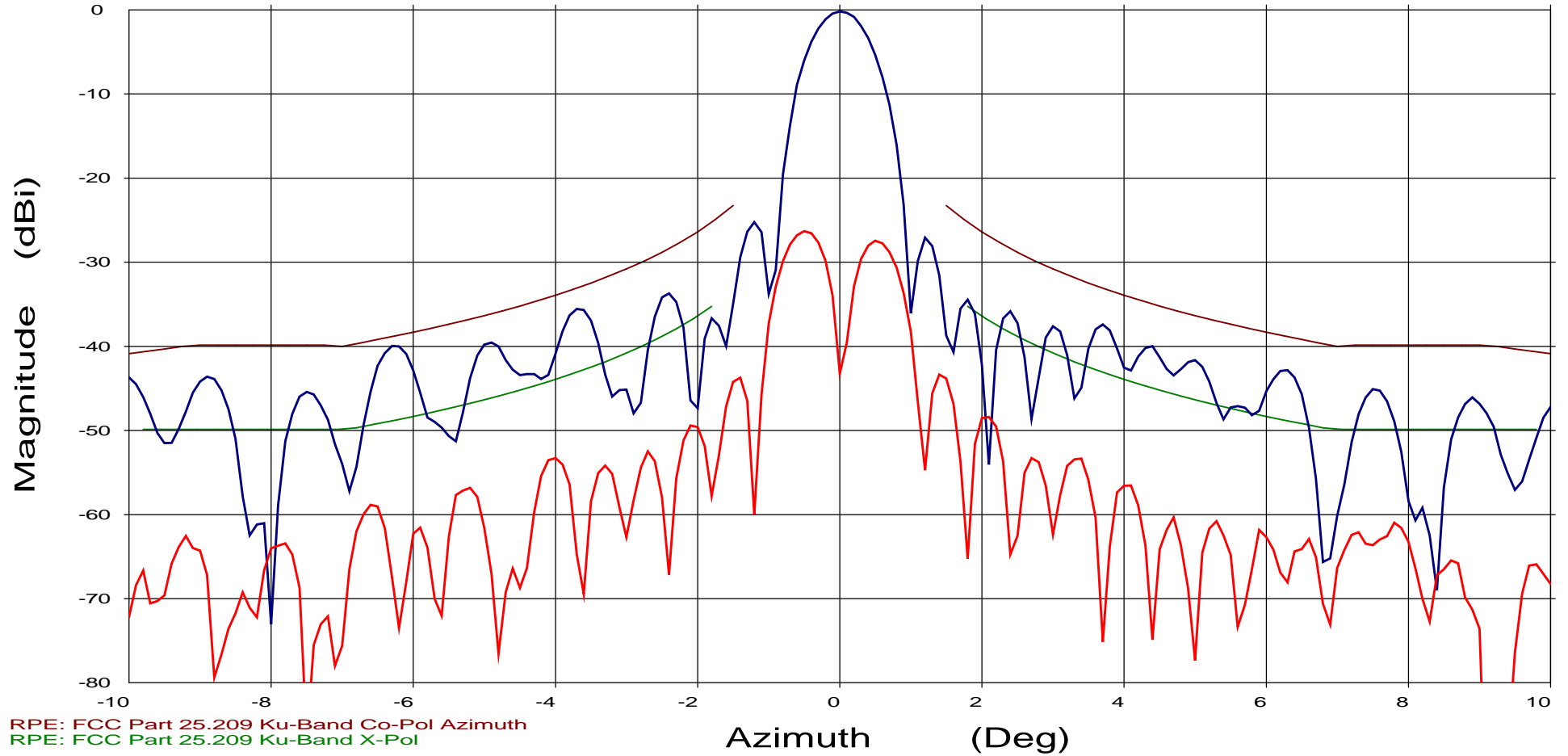
Frequency : 10.950 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth
RPE: FCC Part 25.209 Ku-Band X-Pol

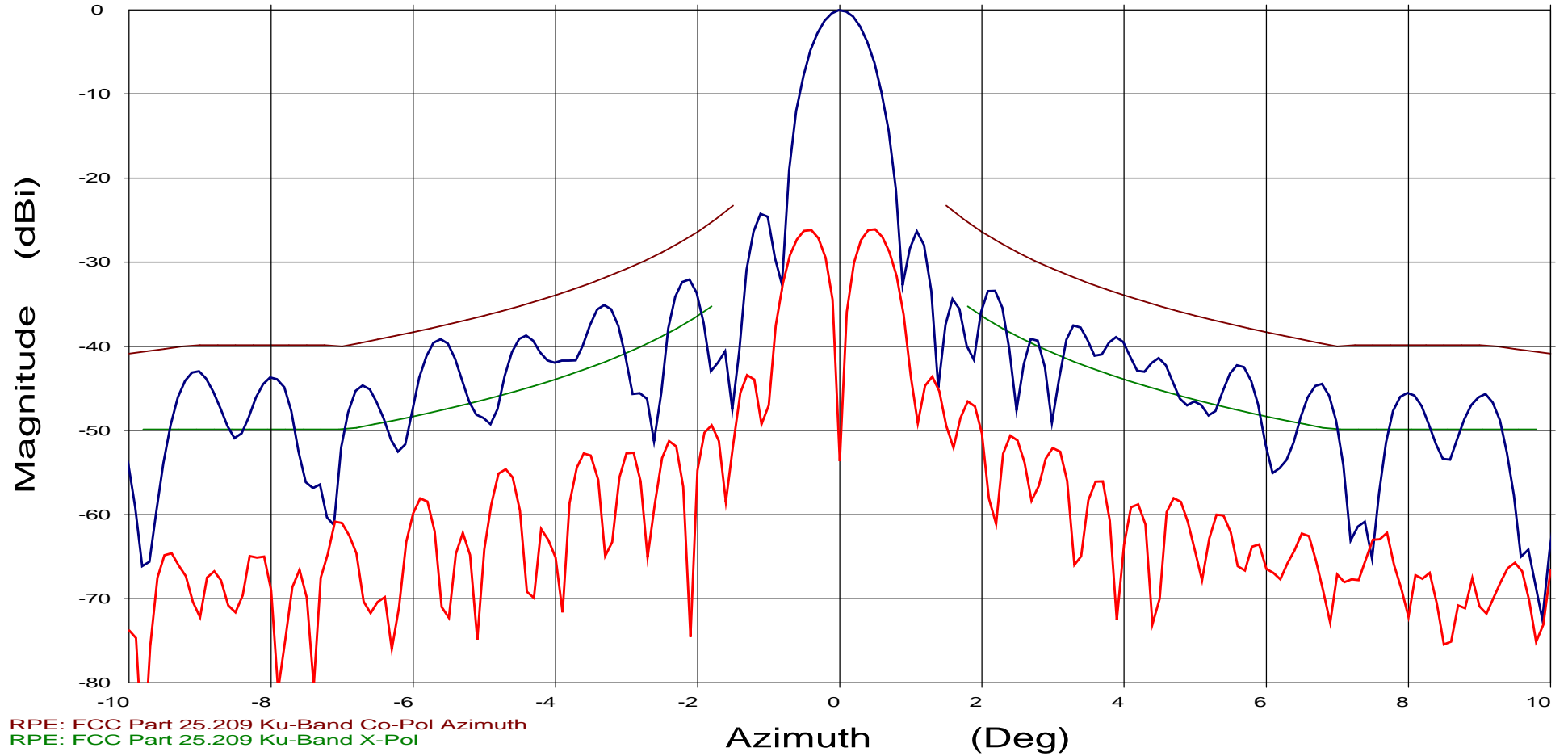
Overlays
2437-1667 - 13.dat-ant_under_test
2437-1667 - 15.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

Frequency : 12.200 GHz

Operator: Keny Poovey

Channel: ch1 Tx pol: Horiz. Rx pol: Horiz.



Overlays
2437-1667 - 13.dat-ant_under_test
2437-1667 - 15.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

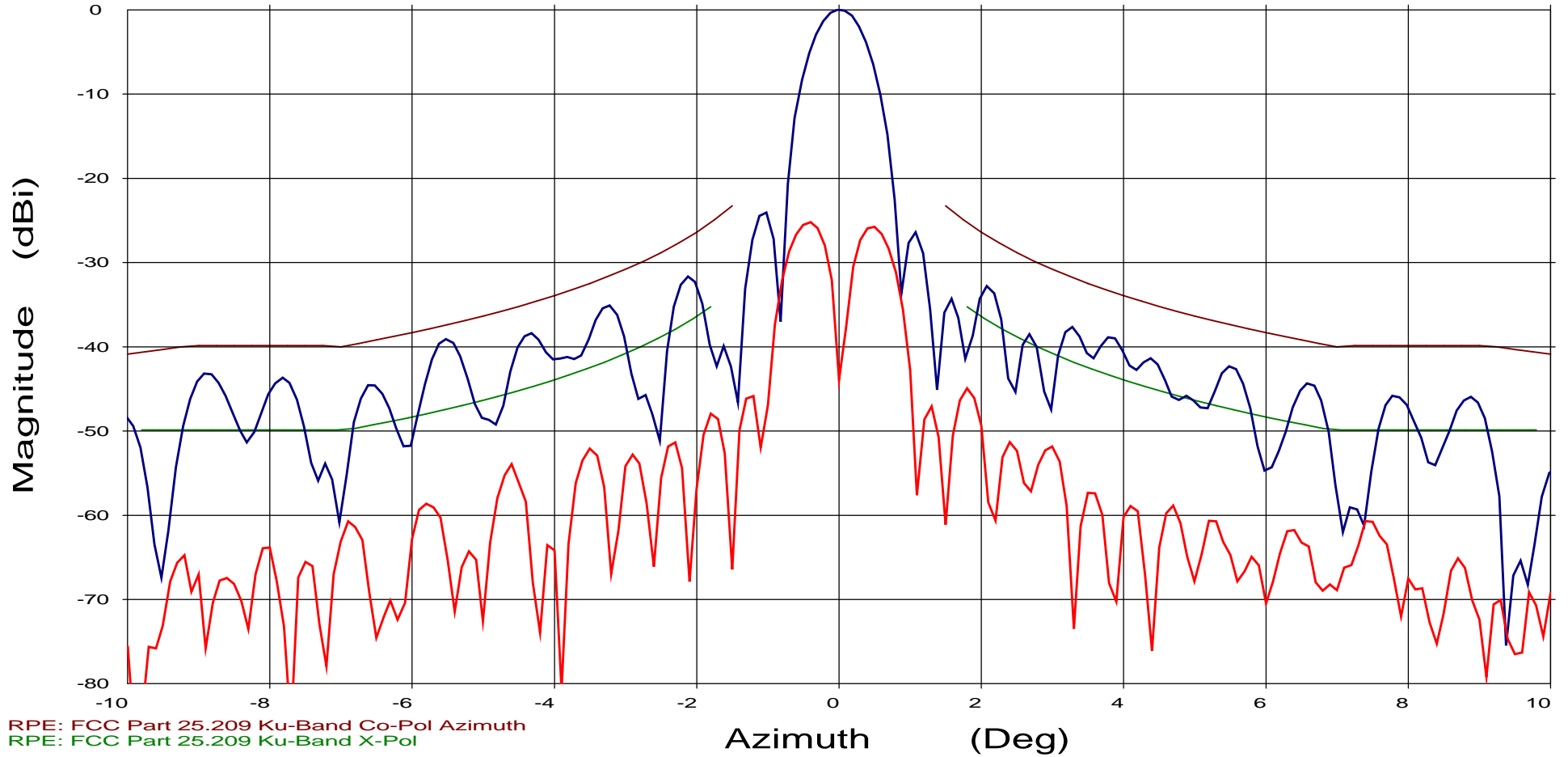
Frequency : 12.450 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays

2437-1667 - 13.dat-ant_under_test

2437-1667 - 15.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

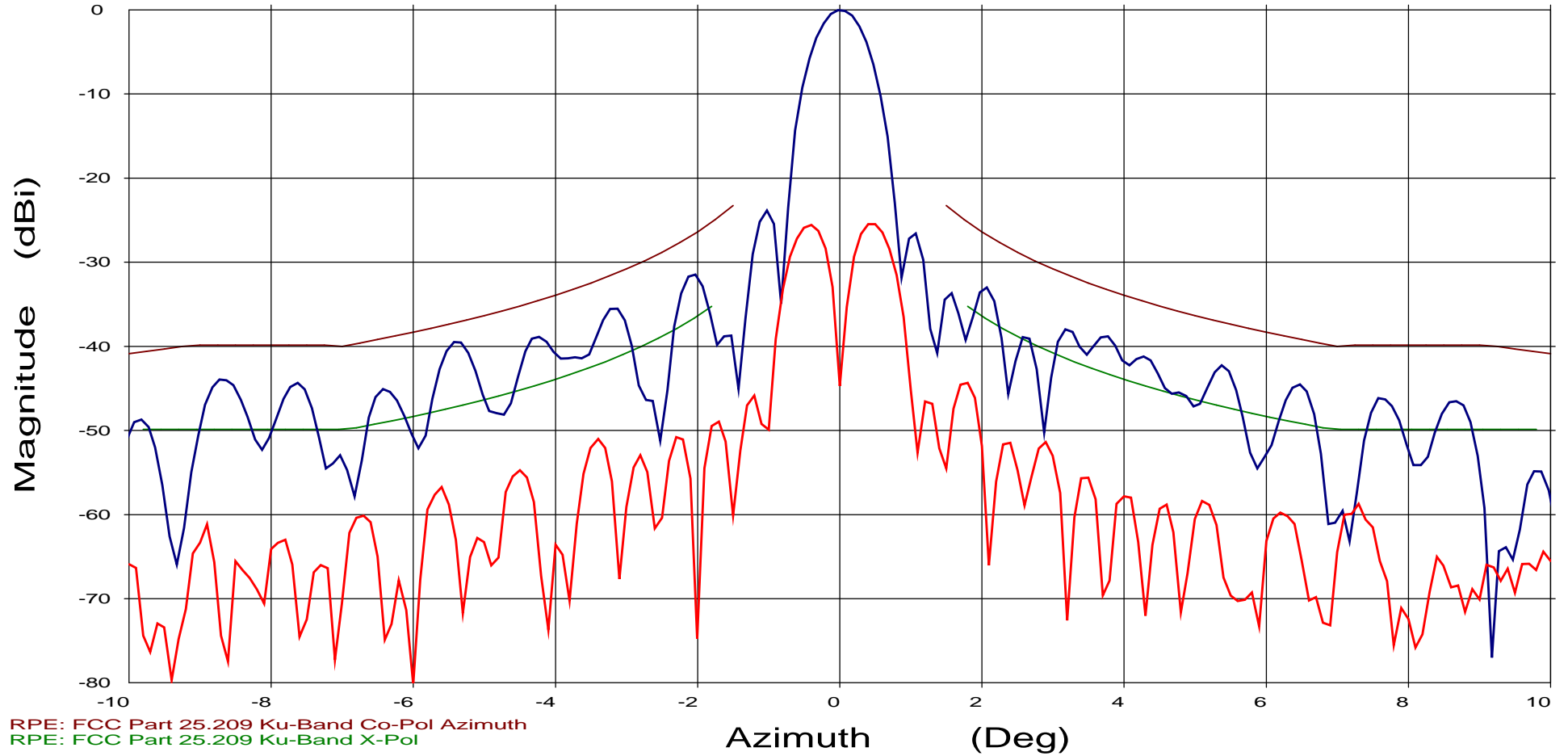
Frequency : 12.750 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays

2437-1667 - 13.dat-ant_under_test

2437-1667 - 15.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

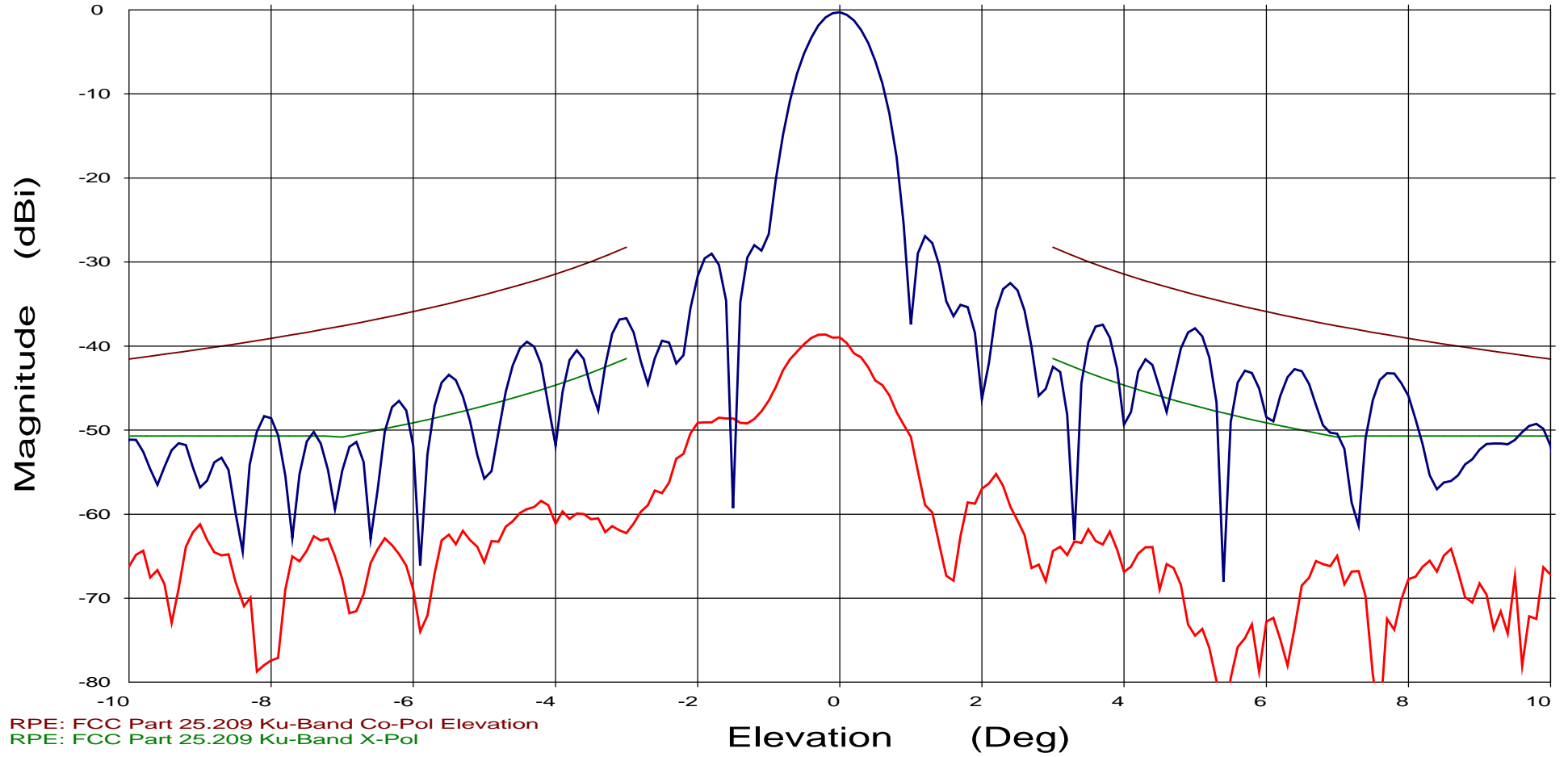
Frequency : 10.950 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation
RPE: FCC Part 25.209 Ku-Band X-Pol

Overlays
2437-1667 - 16.dat-ant_under_test
2437-1667 - 19.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

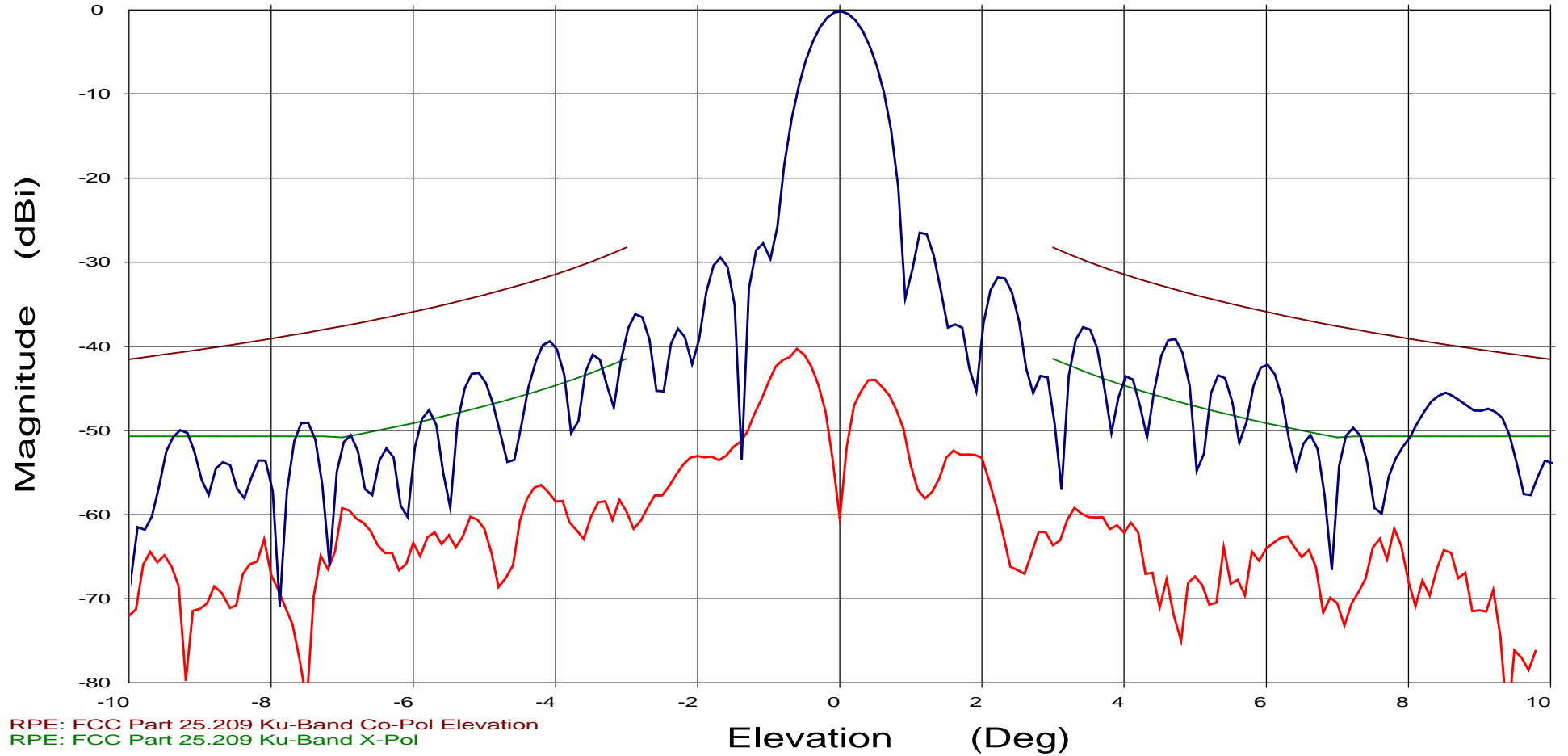
Frequency : 11.700 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation
RPE: FCC Part 25.209 Ku-Band X-Pol

Overlays
2437-1667 - 16.dat-ant_under_test
2437-1667 - 19.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

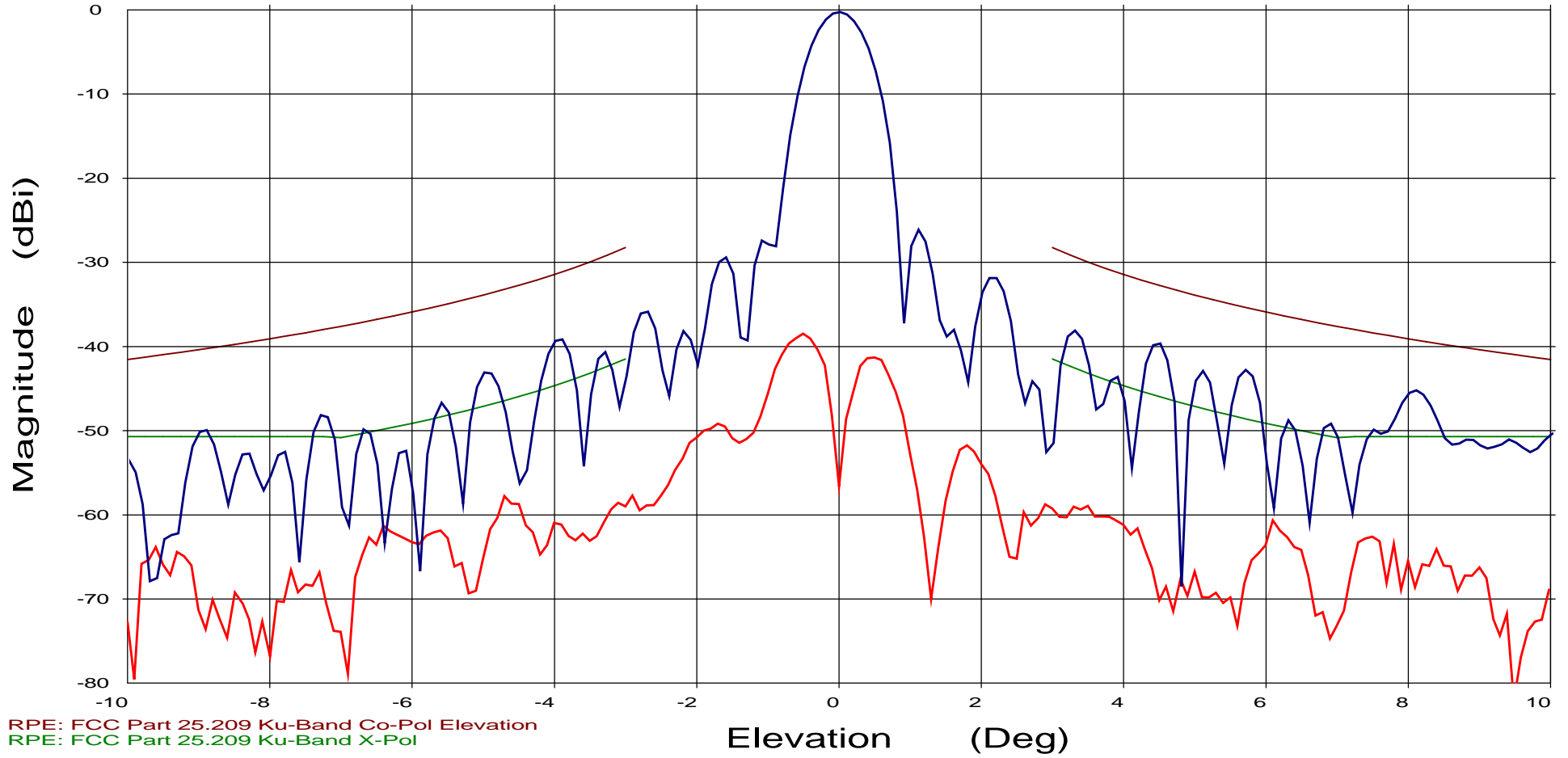
Frequency : 12.200 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



Overlays

2437-1667 - 16.dat-ant_under_test

2437-1667 - 19.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

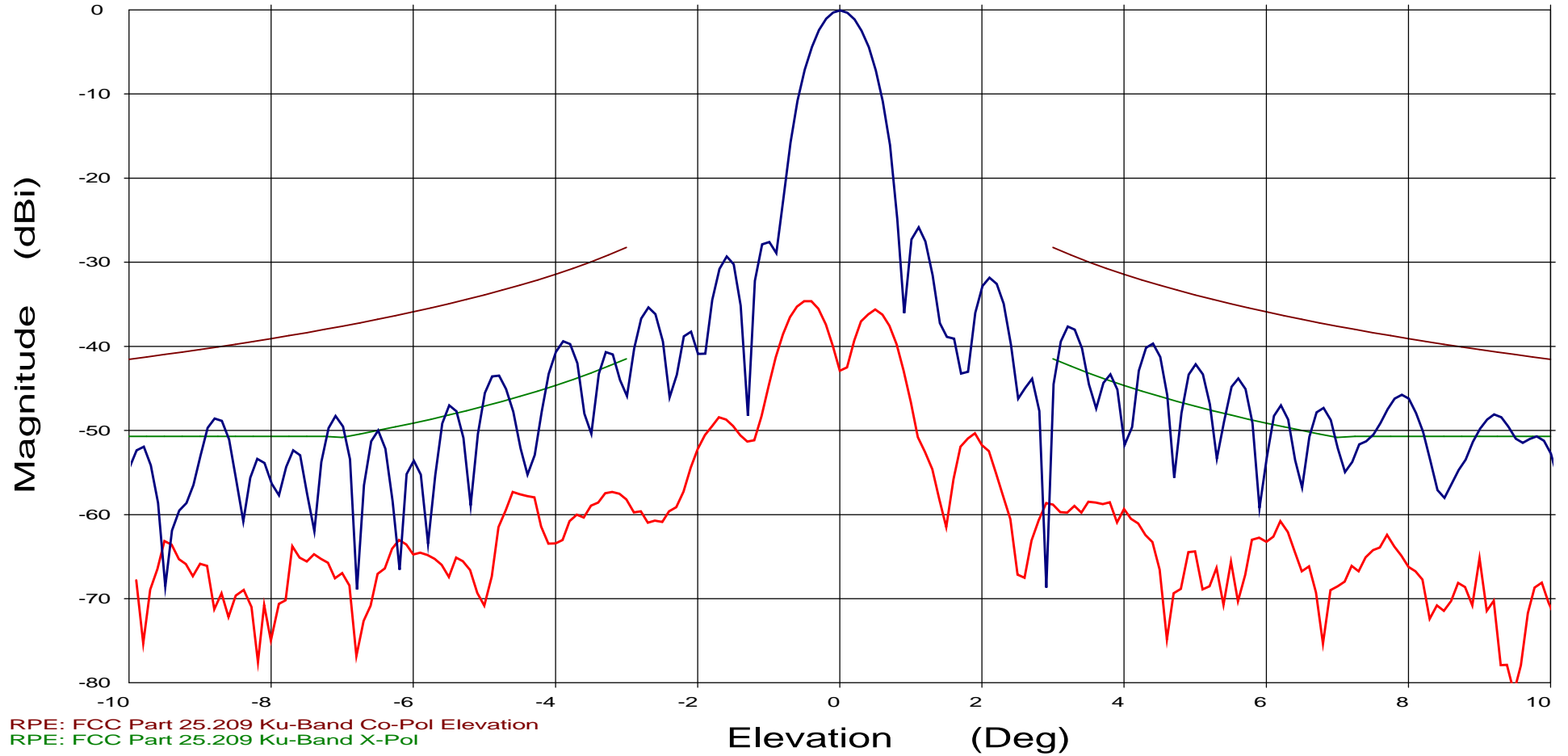
Frequency : 12.450 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation
RPE: FCC Part 25.209 Ku-Band X-Pol

Overlays
2437-1667 - 16.dat-ant_under_test
2437-1667 - 19.dat-ant_under_test

2.4M Ku-Band Rx/Tx Antenna System
Typical Performance of Series 1244 & 1259

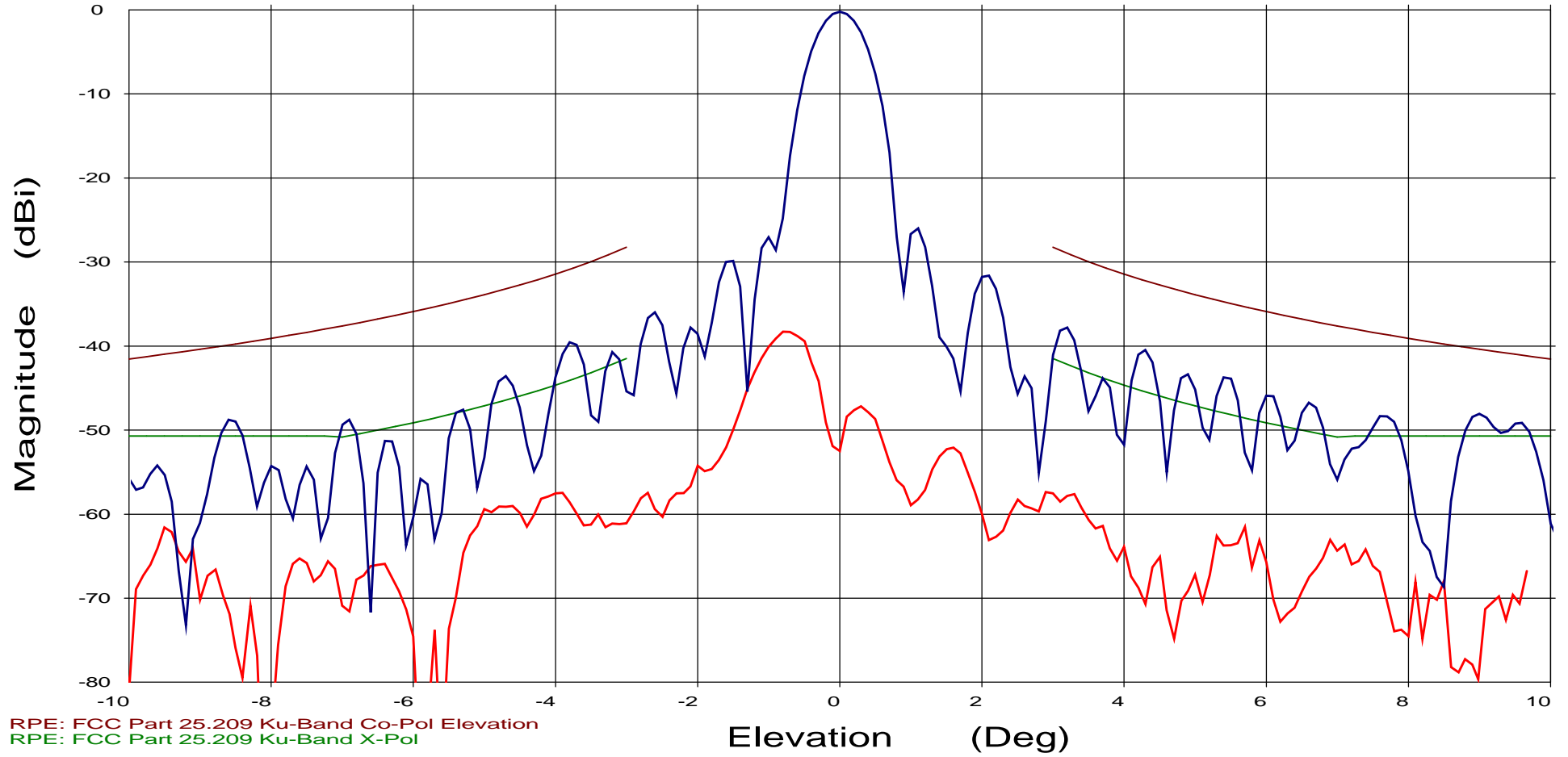
Frequency : 12.750 GHz

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation
RPE: FCC Part 25.209 Ku-Band X-Pol

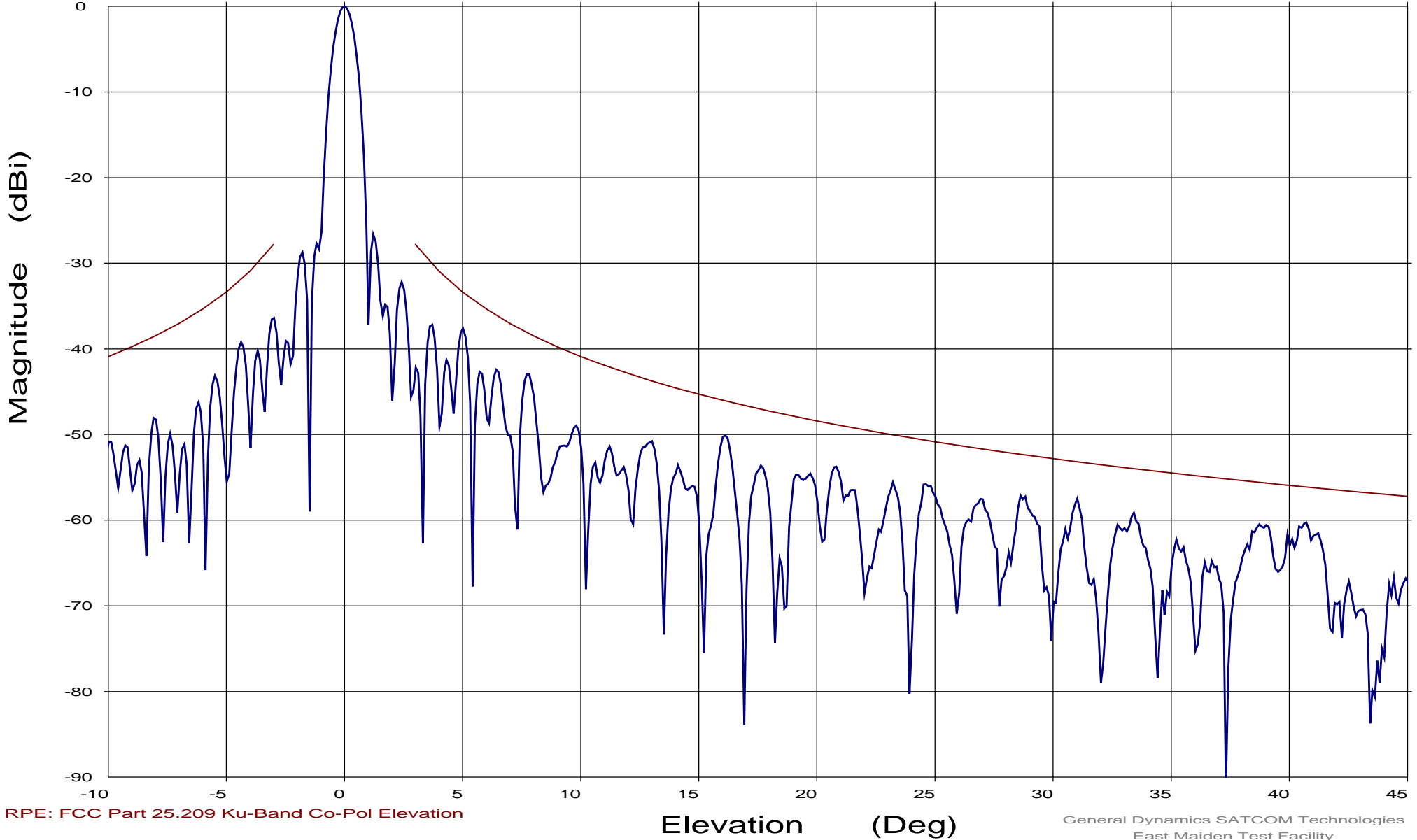
Overlays
2437-1667 - 16.dat-ant_under_test
2437-1667 - 19.dat-ant_under_test

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



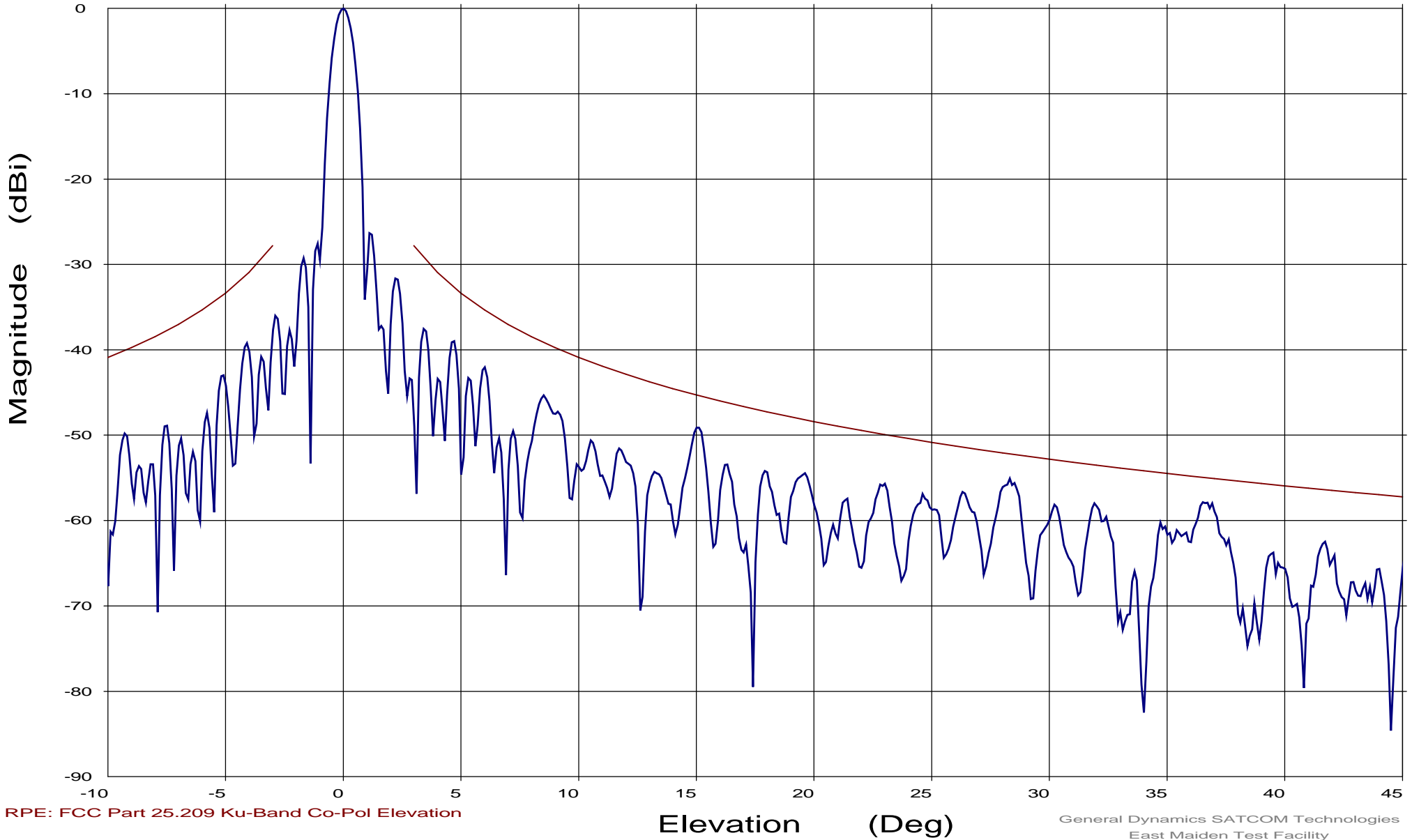
RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.

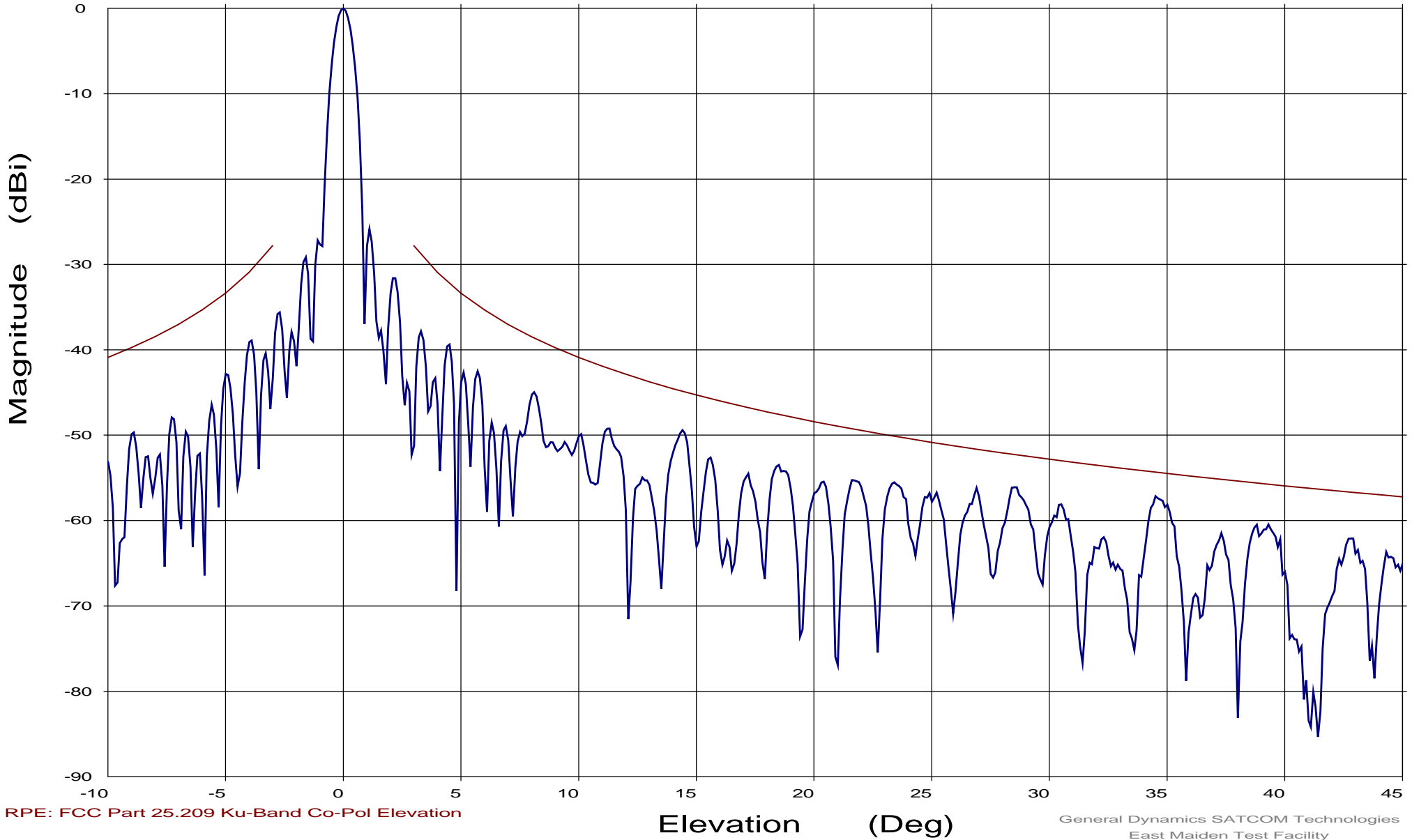


Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



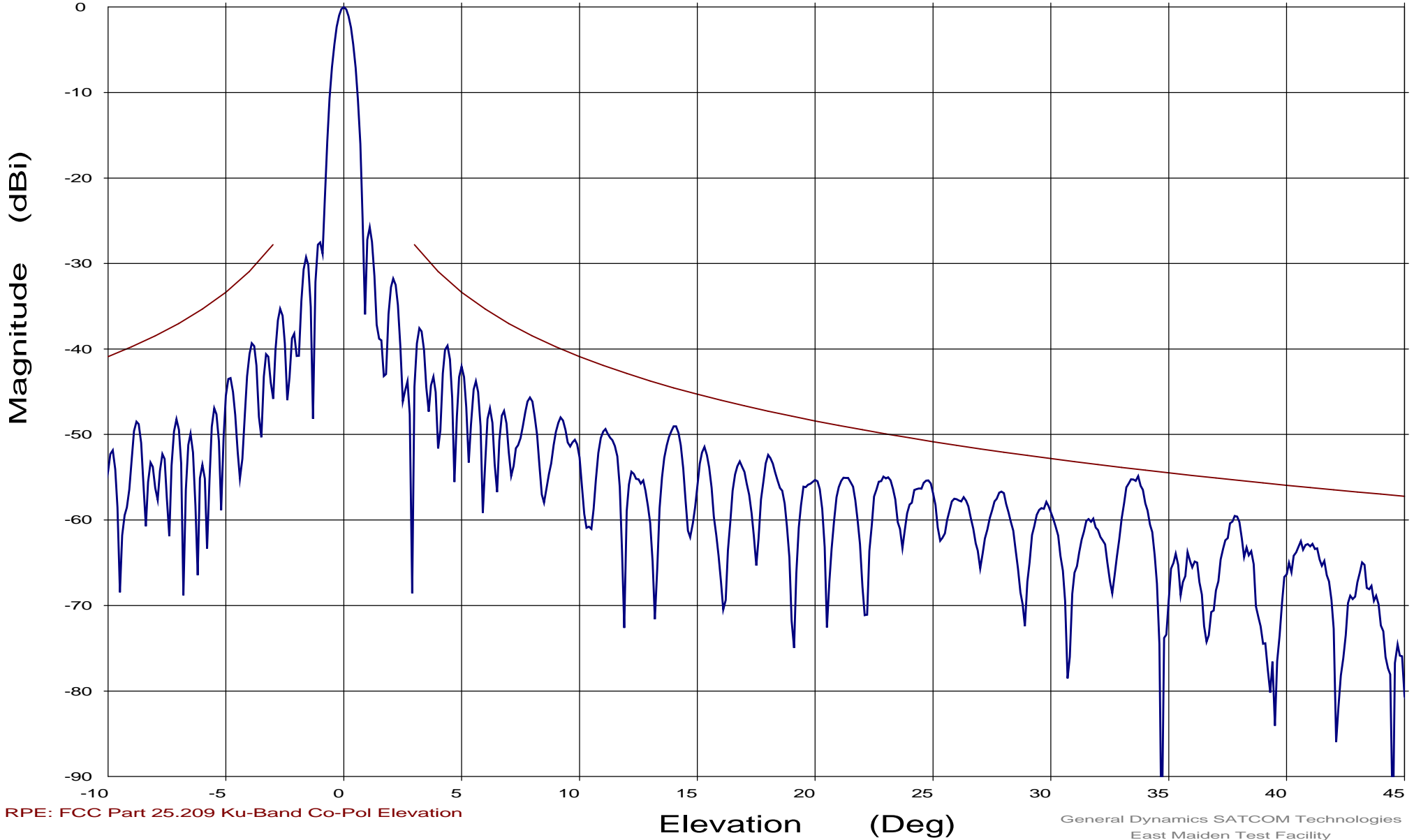
RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



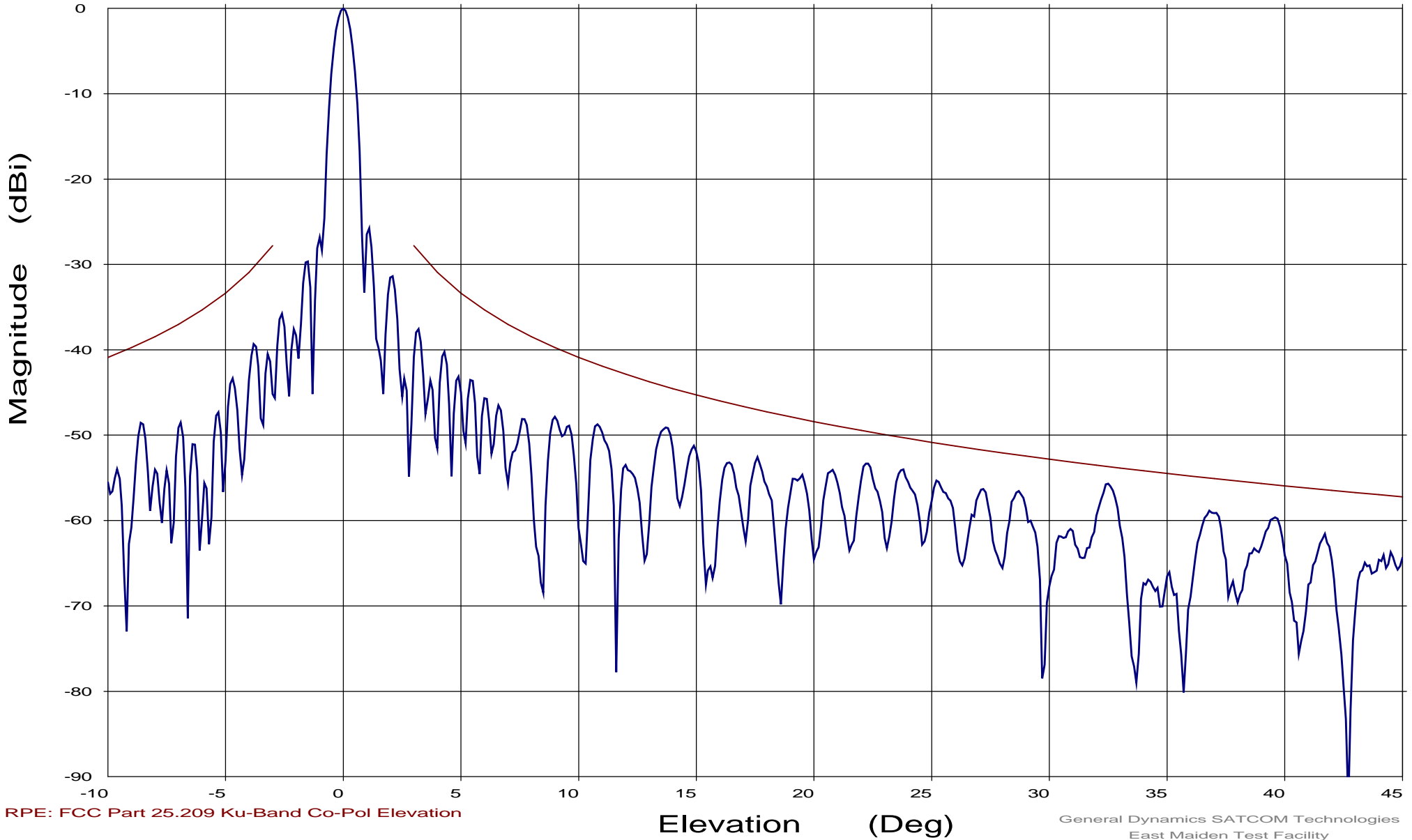
RPE: FCC Part 25.209 Ku-Band Co-Pol Elevation

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.

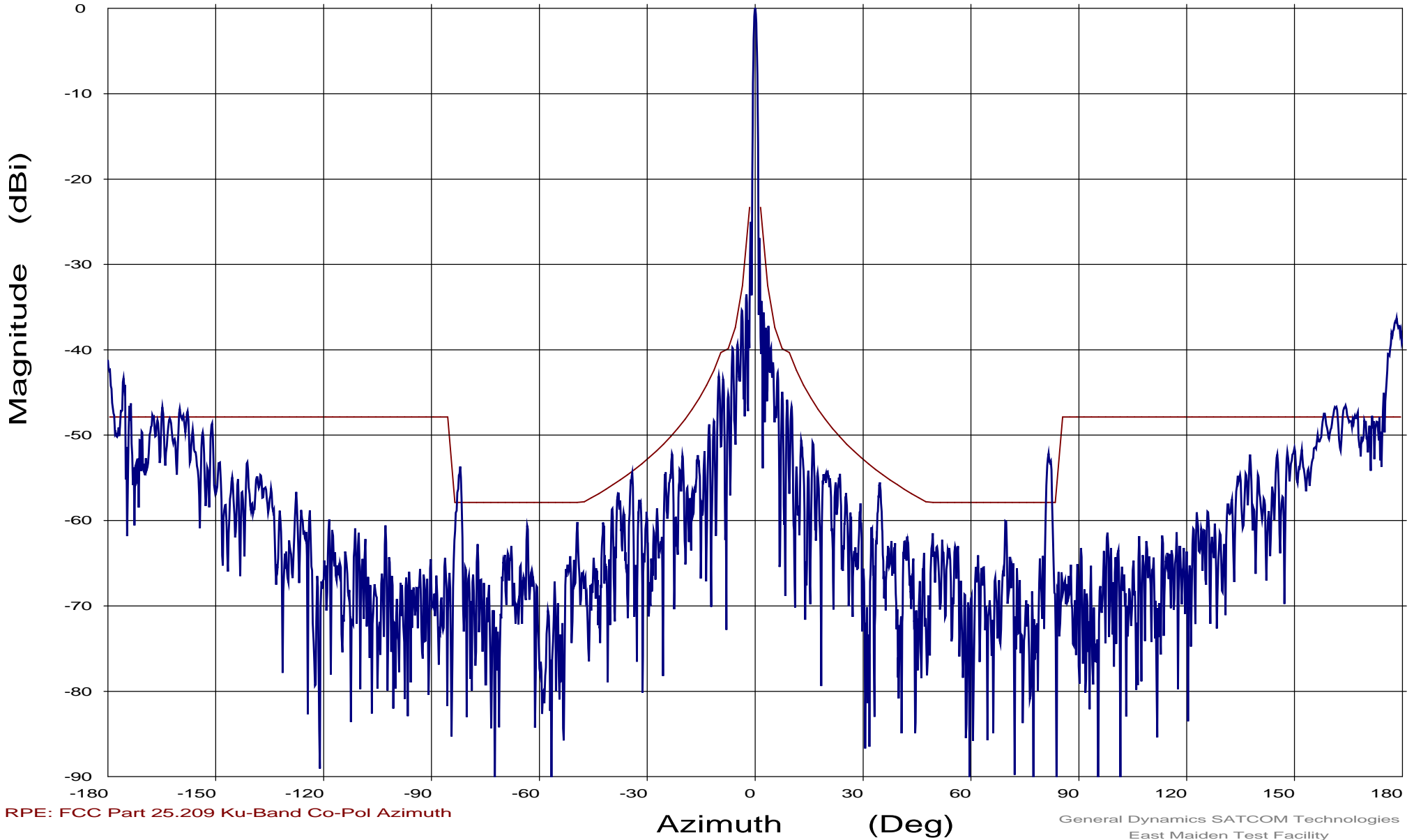


Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



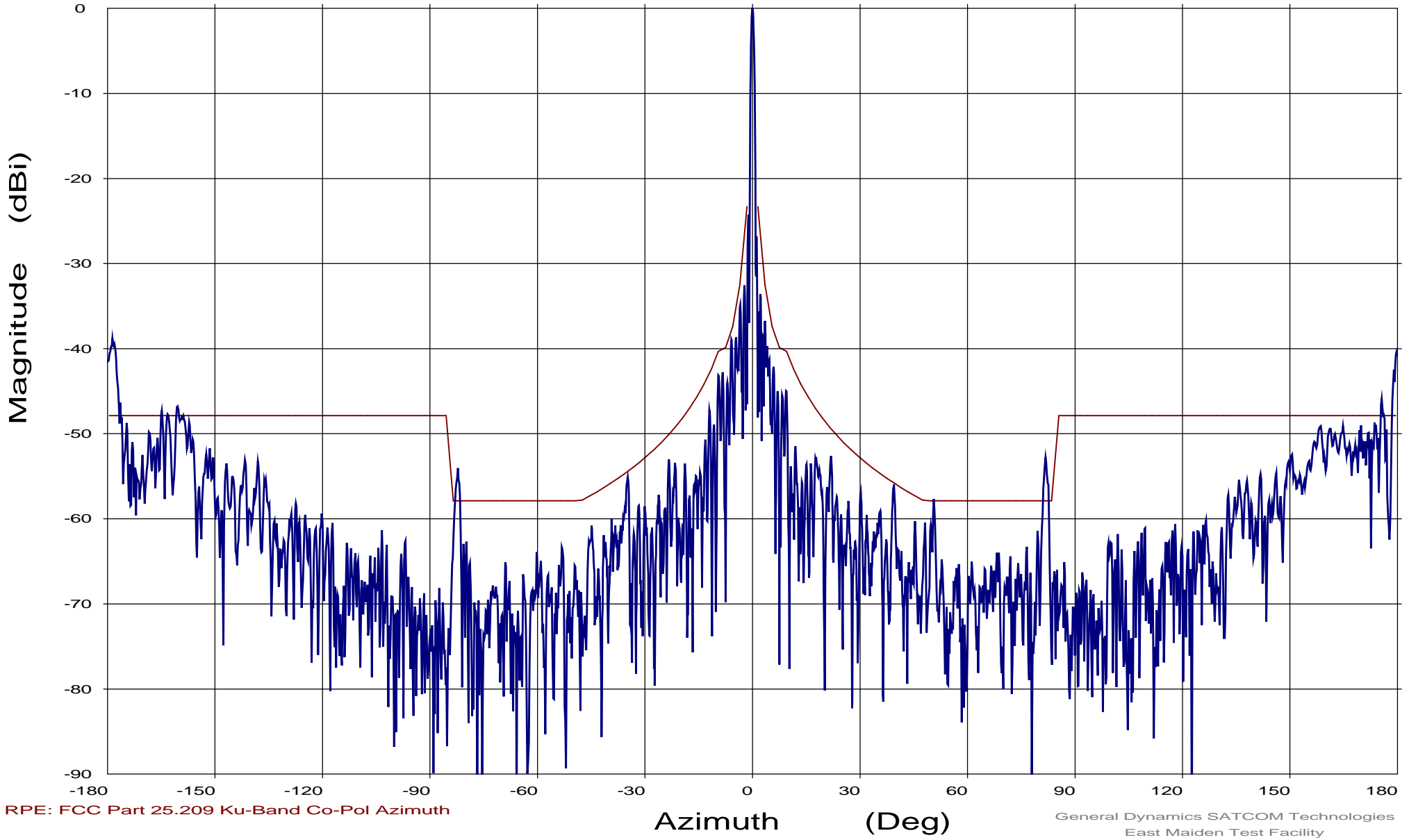
RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



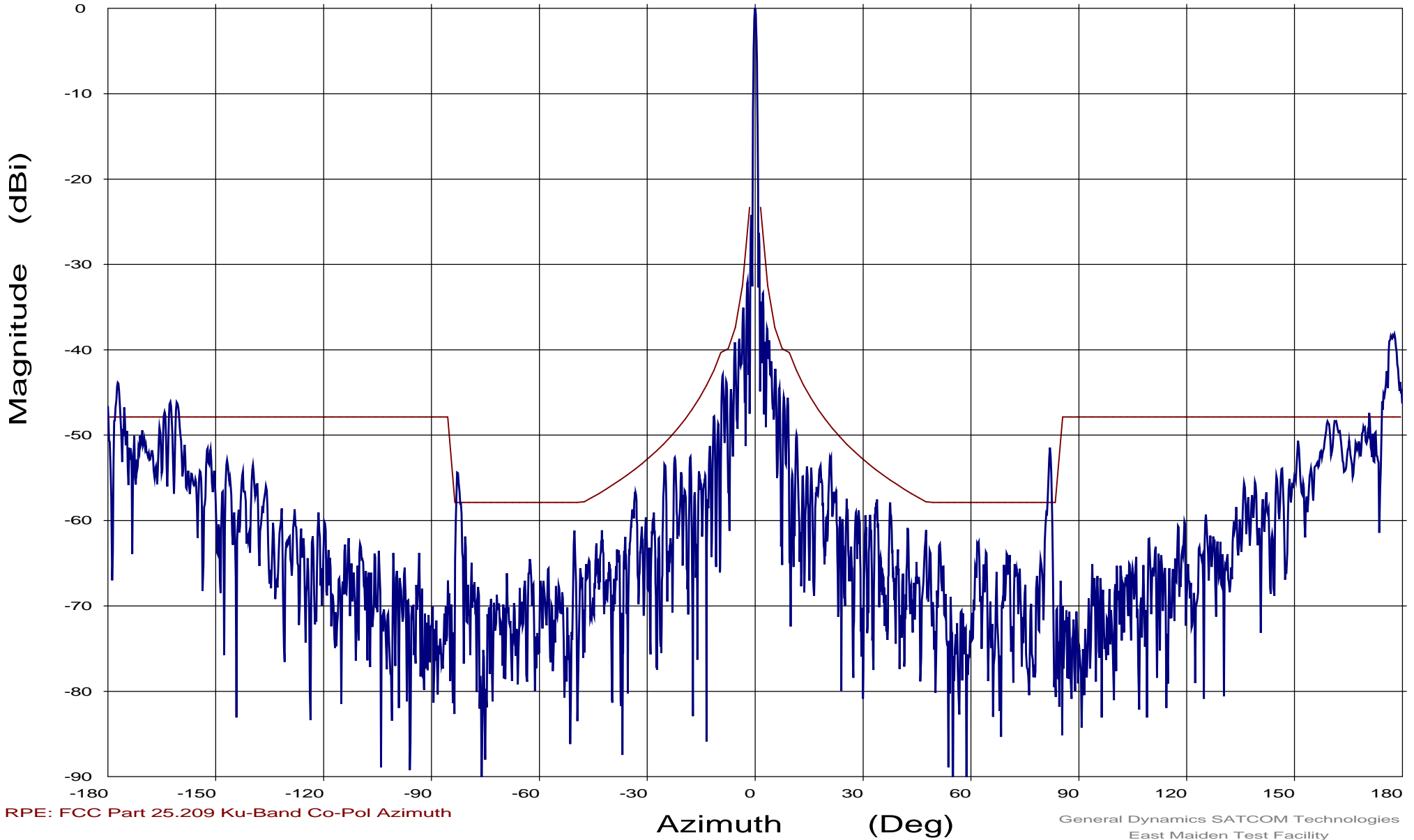
RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



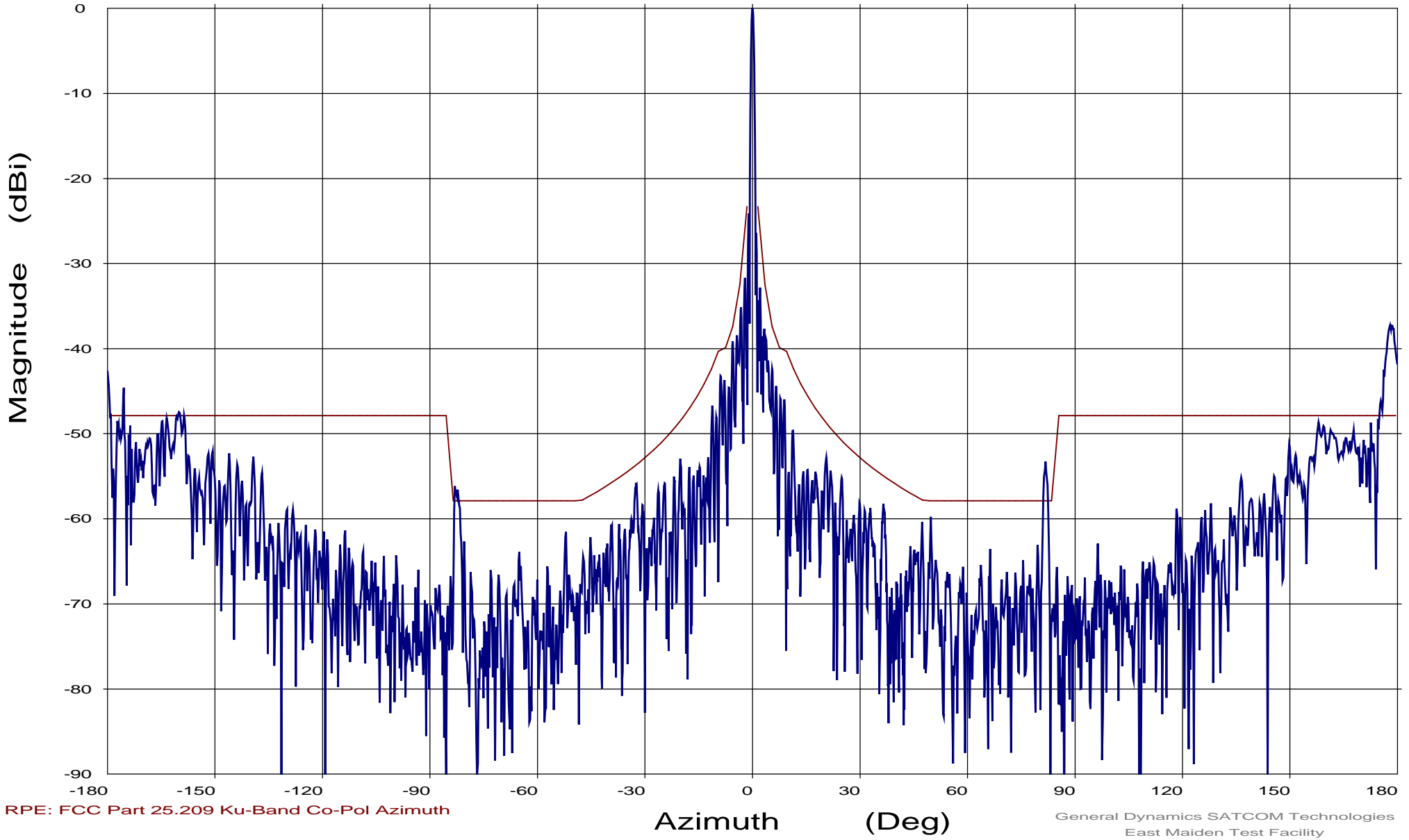
RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



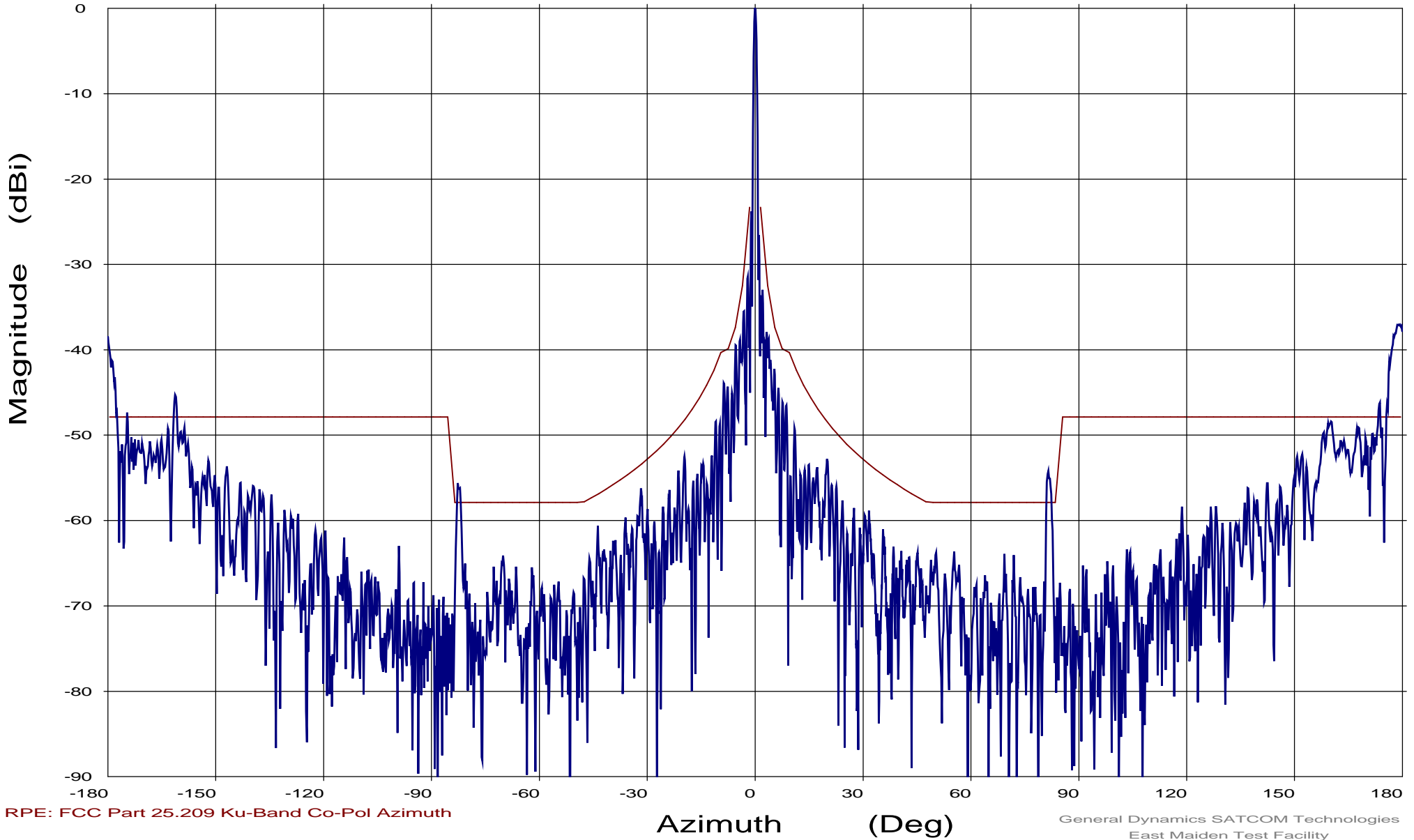
RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth

Operator: Keny Poovey

Channel: ch1

Tx pol: Horiz.

Rx pol: Horiz.



RPE: FCC Part 25.209 Ku-Band Co-Pol Azimuth

End of Report

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