

December 12, 2011

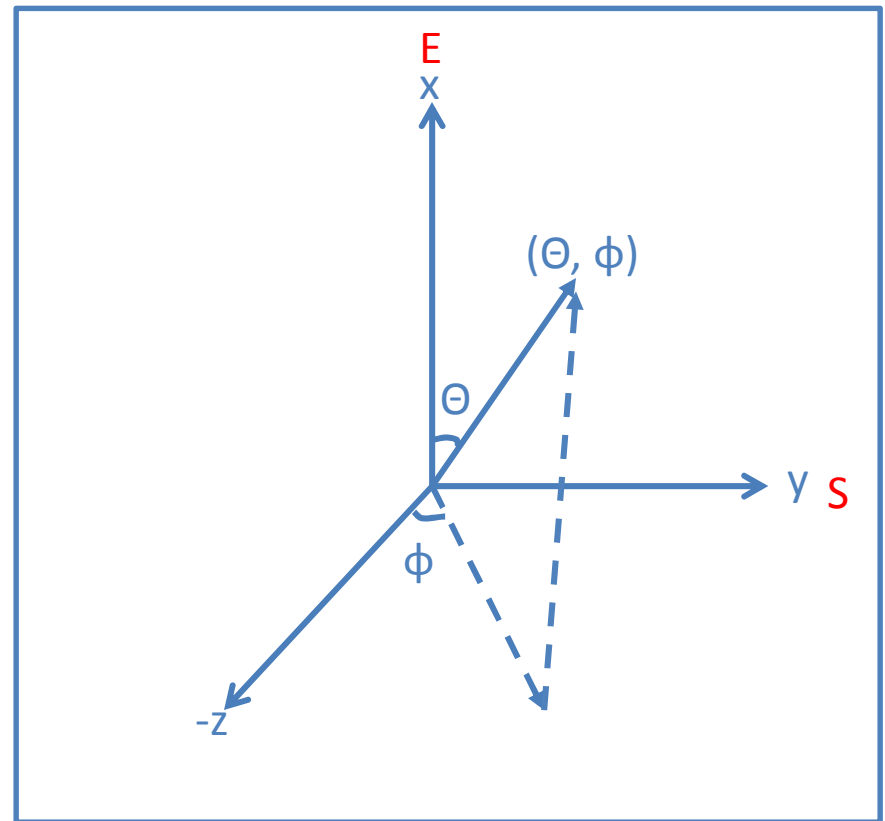
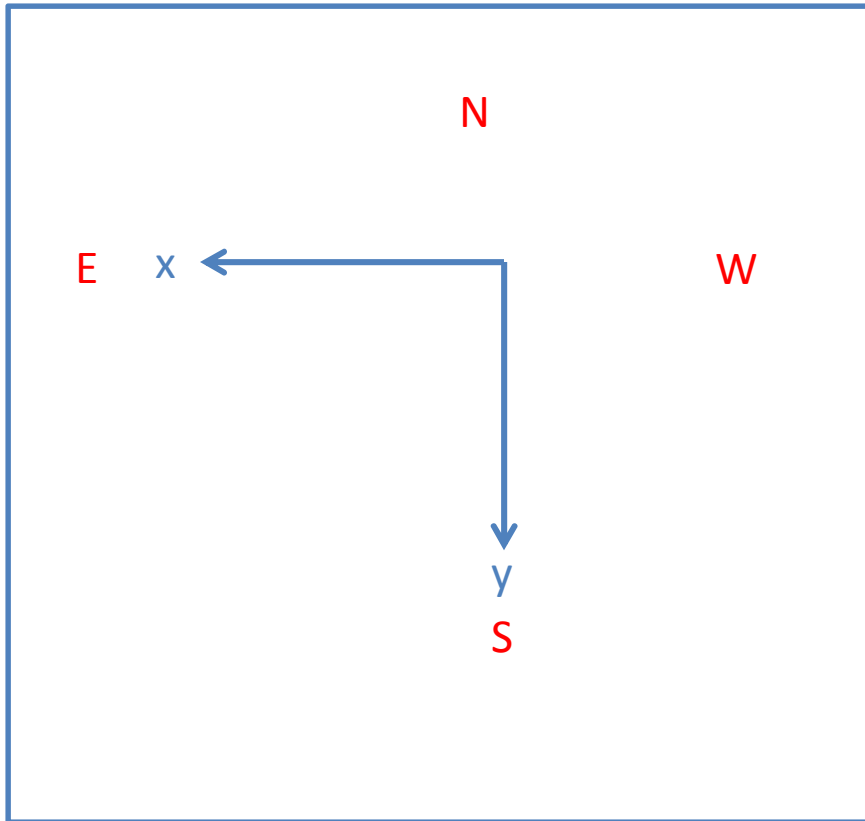
Update: May 15, 2012

# 119 West Adjacent Satellite Off Axis Antenna Performance CONUS Beam

## Maximum Allowable EIRP to meet the -117dBW/m<sup>2</sup>/100 kHz

Maximum EIRP Allowed	
Spec Max flux density, dBW/m <sup>2</sup> /100kHz	-117
Desired channel band width, MHz	25.8
Symbol rate band width modification factor	1
Effective channel bandwidth, MHz	25.8
Effective bandwidth, dB-100kHz	24.1
Flux density allowed per channel, dBW/m <sup>2</sup>	-92.9
R, radial distance to GEO, km	42164.0
Angle of separation between satellites, deg	0.1
range between satellites, km	73.59
Spreading factor, dB/m <sup>2</sup>	-108.3
Atmospheric loss, dB	0
Max satellite EIRP allowed, dBW	15.4

# Coordinate System



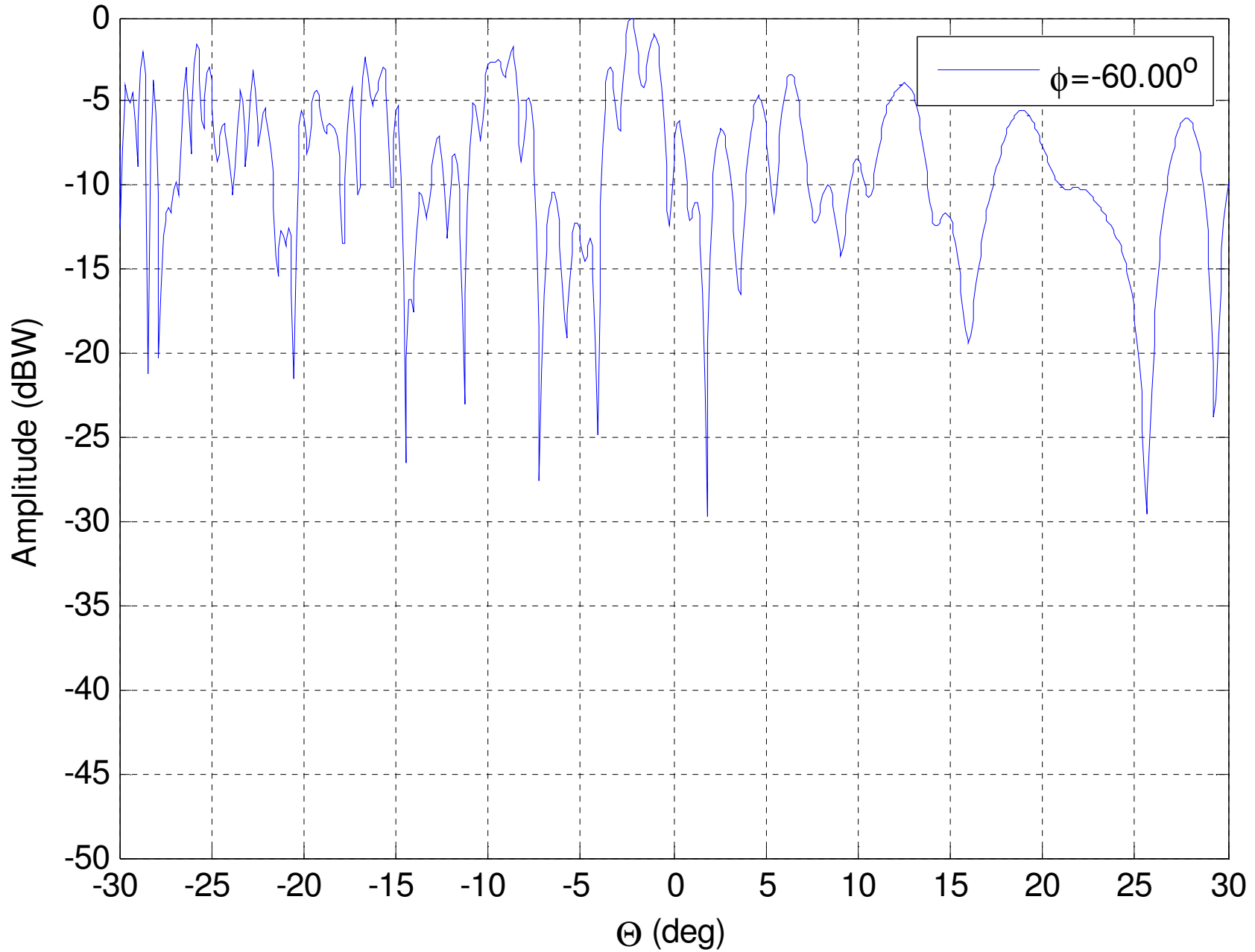
# CONUS Beam, -X Axis Plots

- Both polarizations; RHCP, LHCP
- $-30 < \Theta < 30$  ( $\Theta=0$ : -X -axis)
- $-60 < \phi < 60$
- Freq = 17.305, 17.5, and 17.695 GHz
- The Zero reference line is the peak gain listed in the title of each chart
- All levels are significantly below the required 15.4 dBW EIRP

**RHCP at 17.3 GHz**

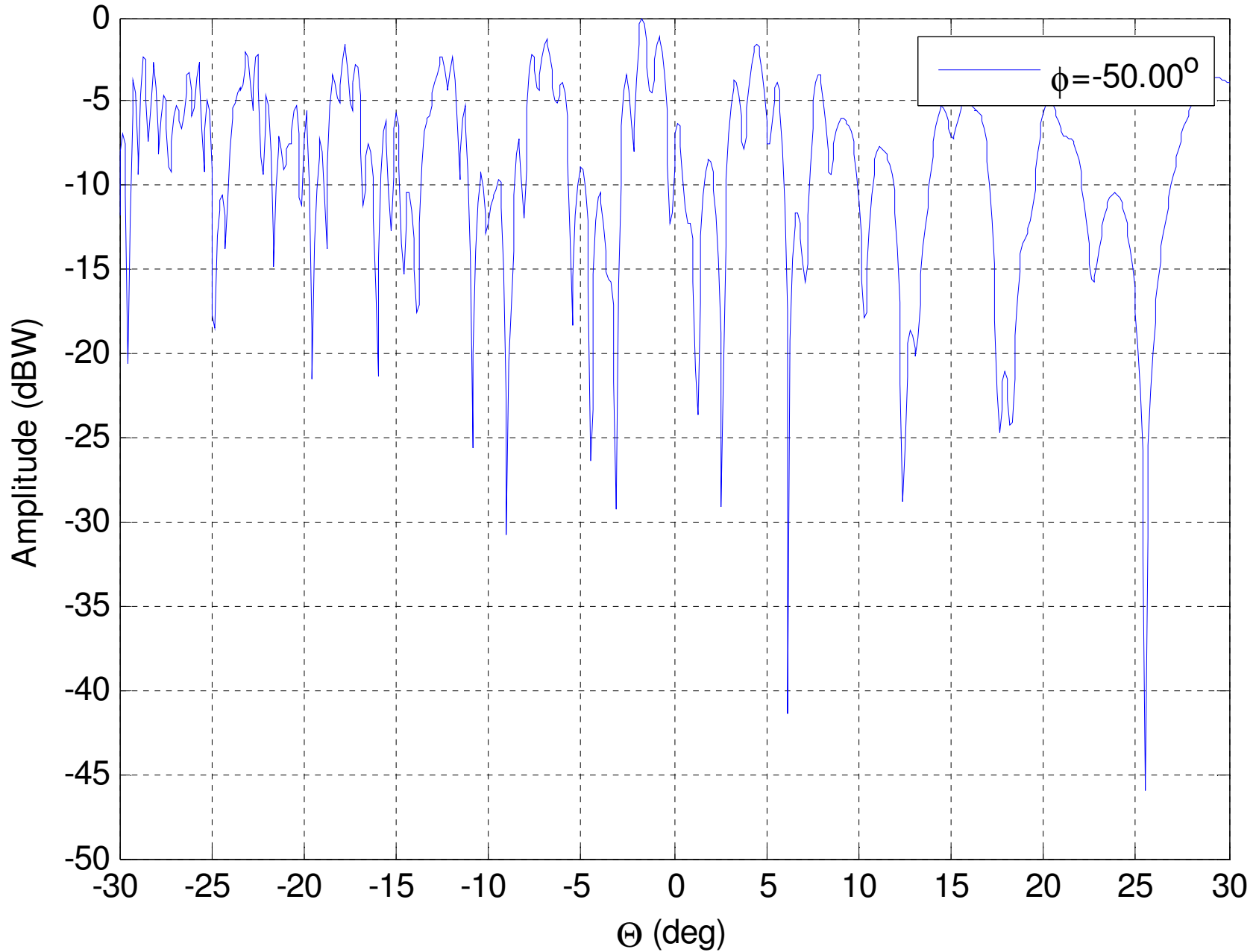
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp--60.cut, Peak: -0.63 dBW, Date: 06-Dec-2011



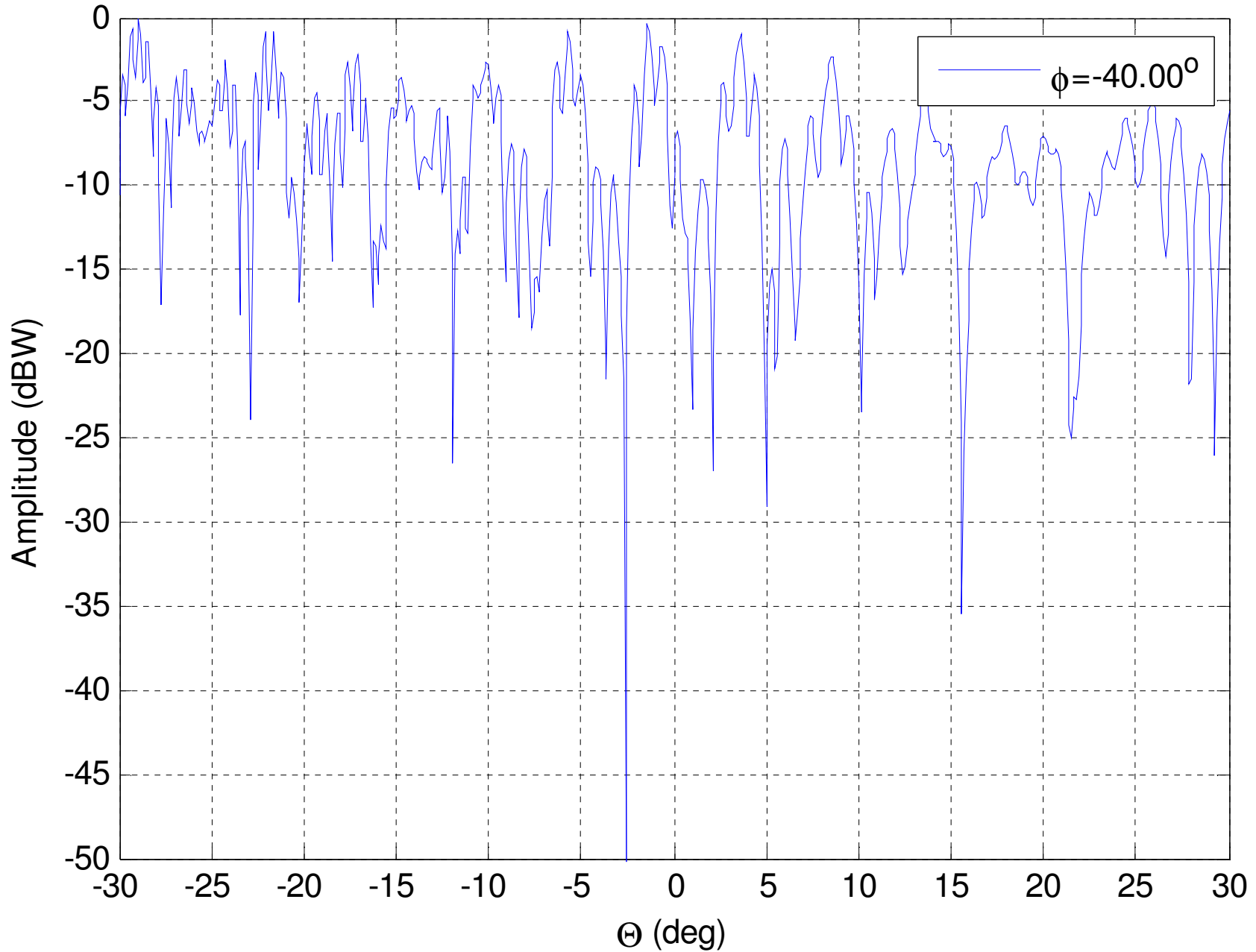
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp--50.cut, Peak: -0.42 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

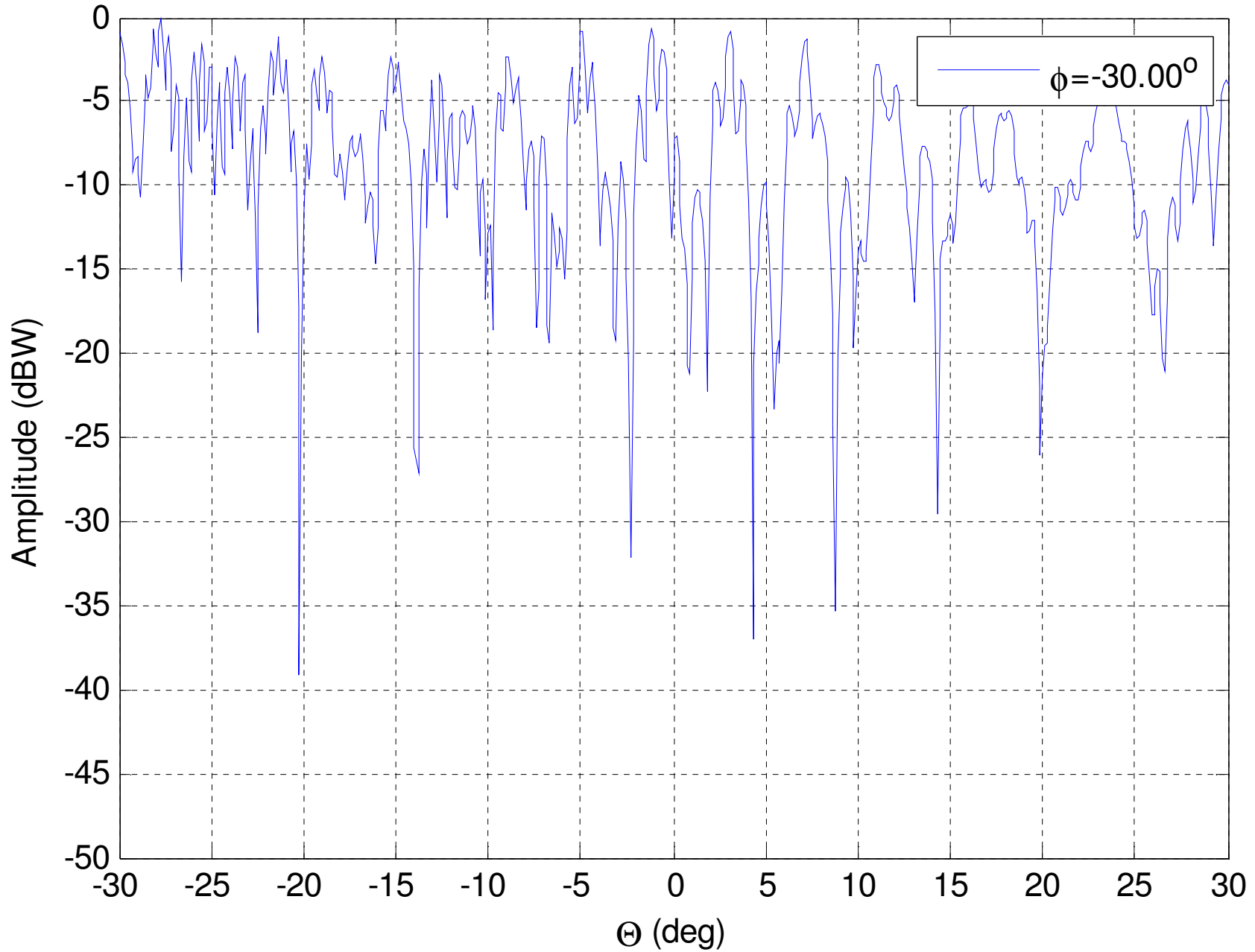
Input file: tx-17.3-rhcp--40.cut, Peak: 0.04 dBW, Date: 06-Dec-2011





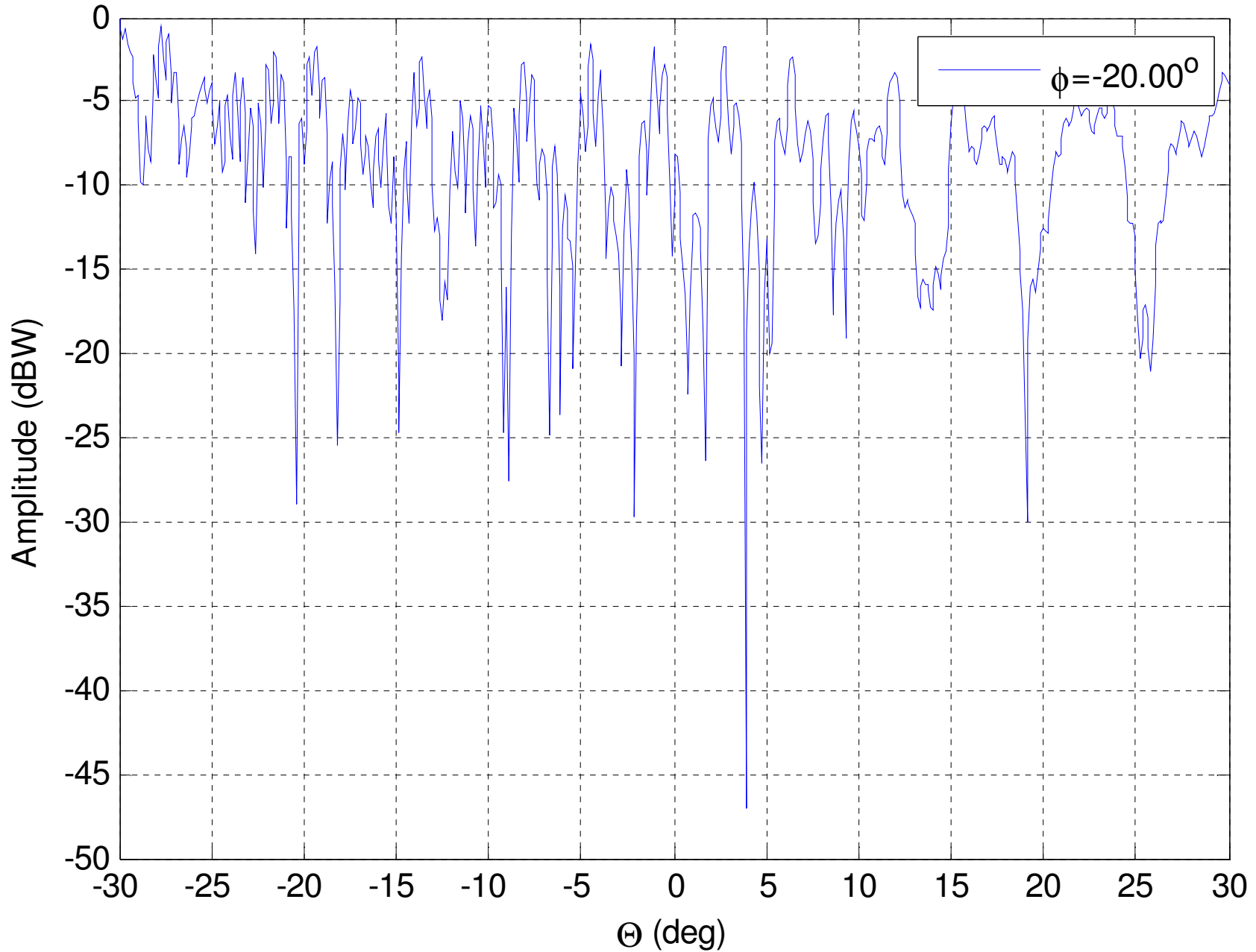
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp--30.cut, Peak: 0.28 dBW, Date: 06-Dec-2011



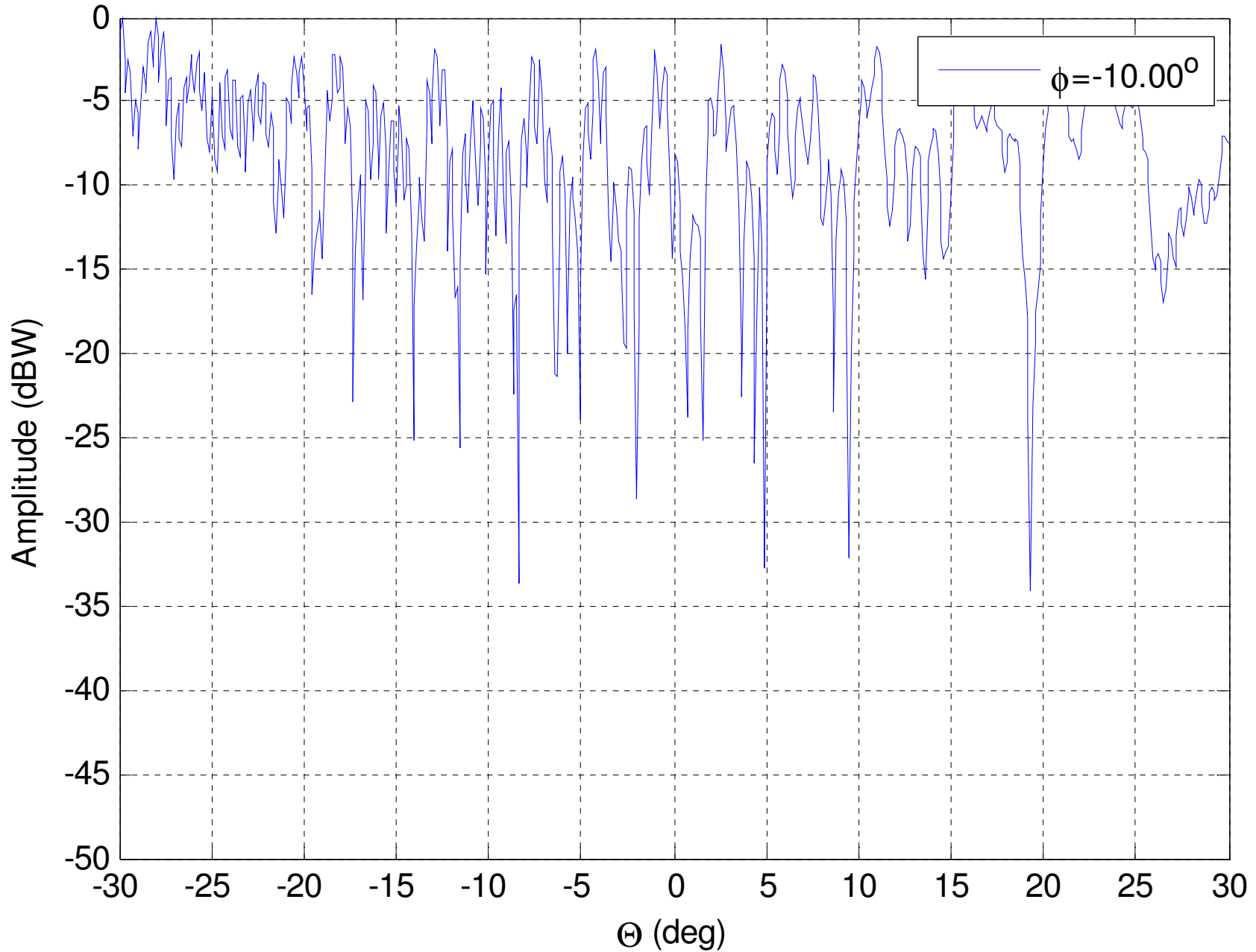
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp--20.cut, Peak: 1.33 dBW, Date: 06-Dec-2011



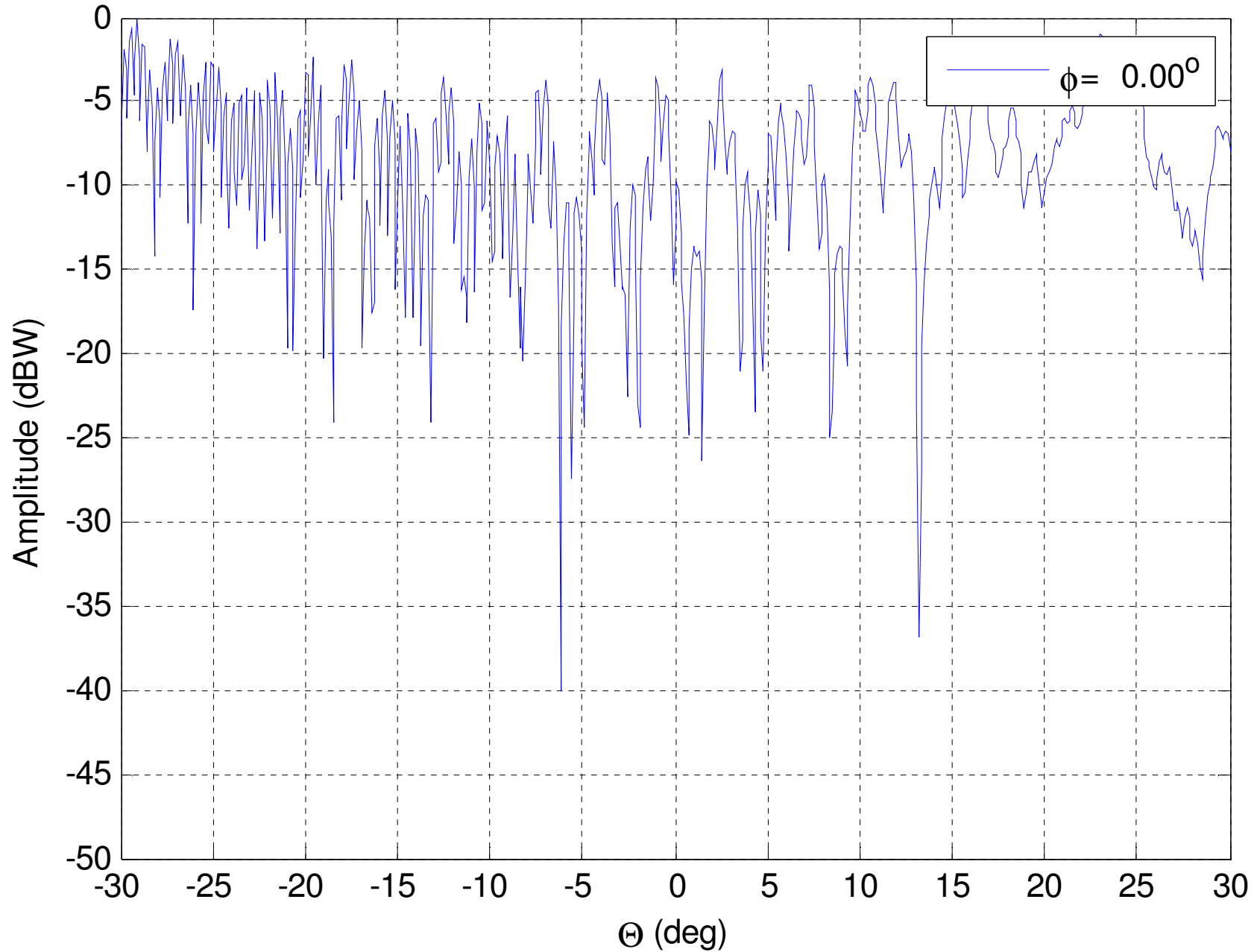
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp--10.cut, Peak: 1.43 dBW, Date: 06-Dec-2011



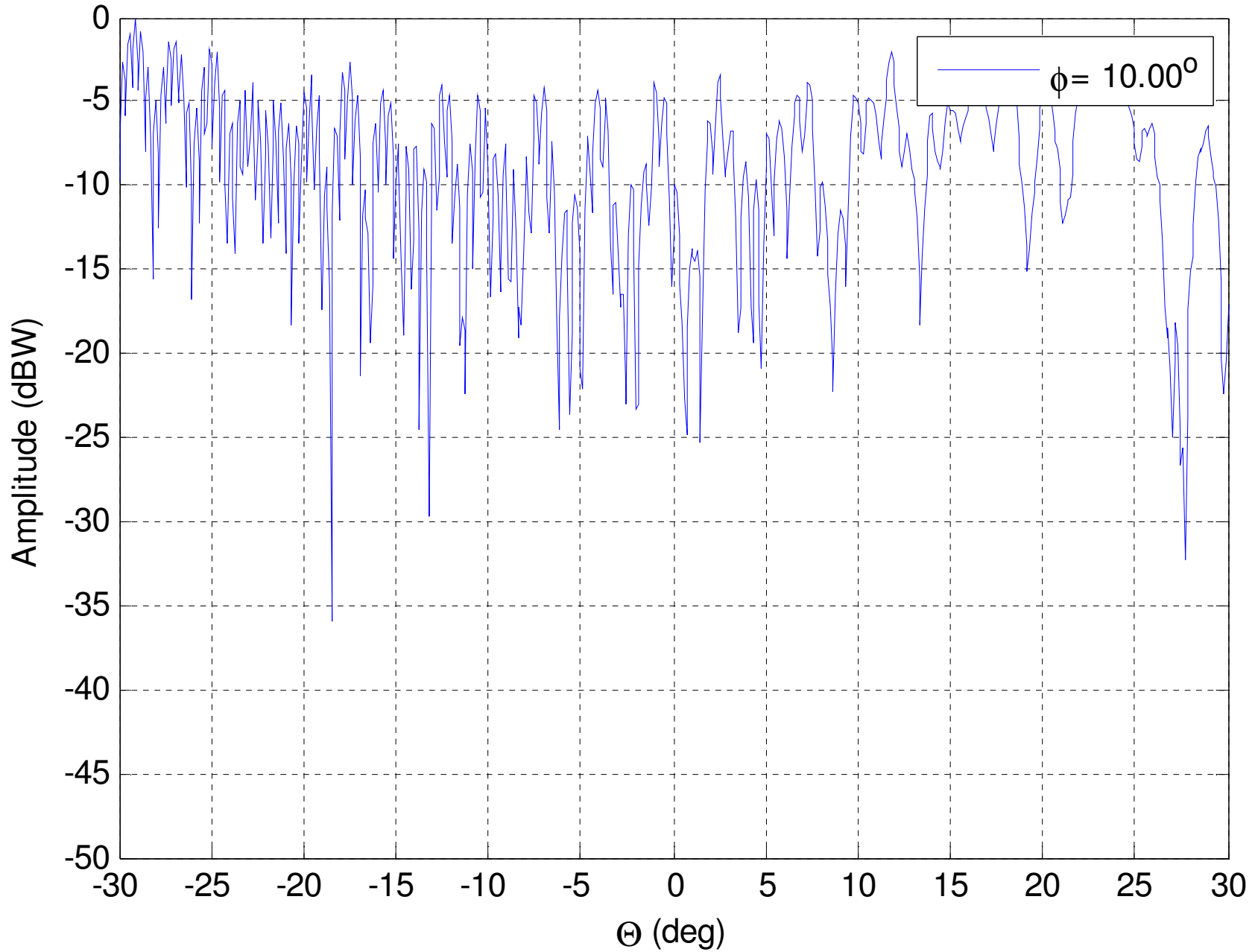
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp-0.cut, Peak: 3.04 dBW, Date: 06-Dec-2011



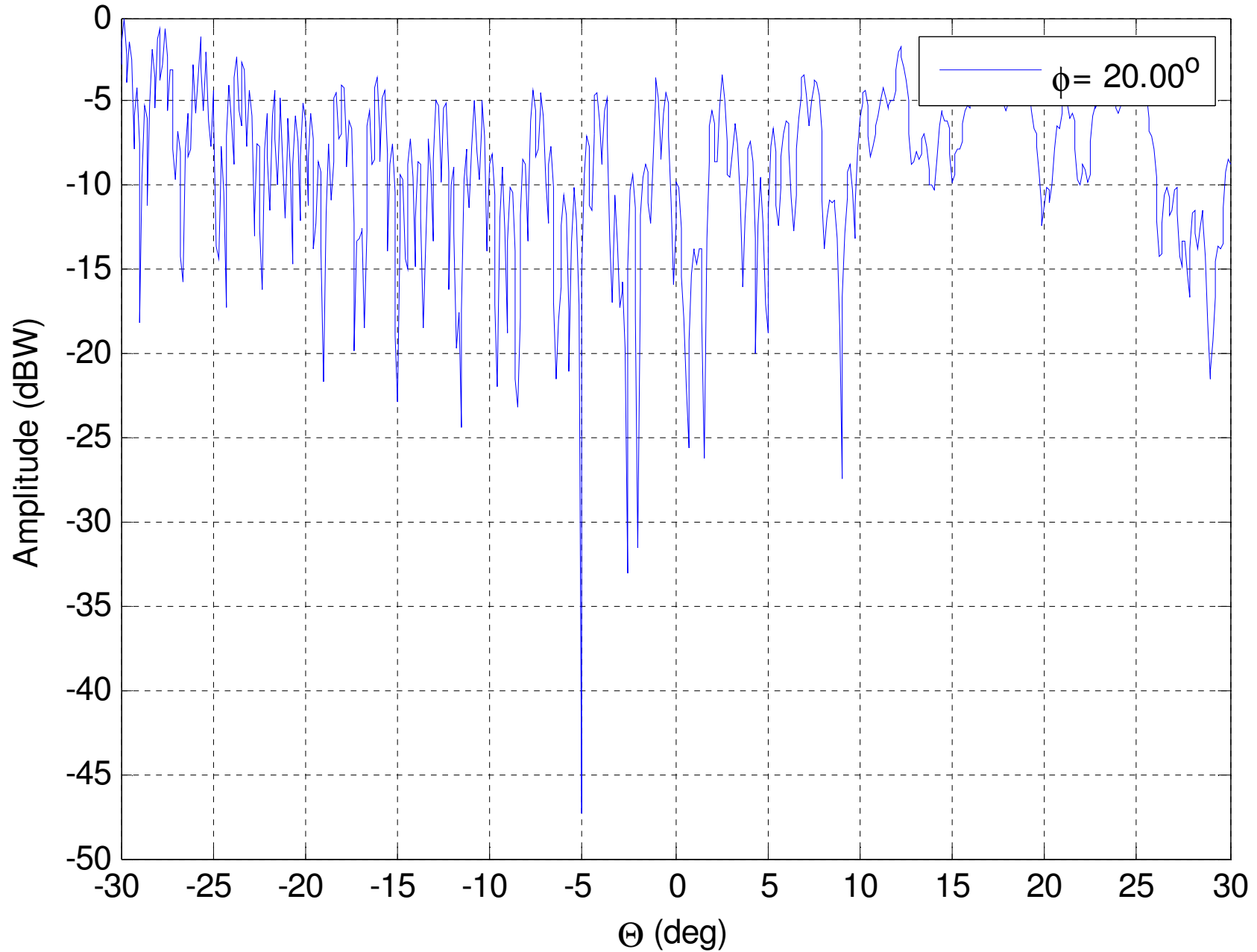
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp-10.cut, Peak: 3.24 dBW, Date: 06-Dec-2011



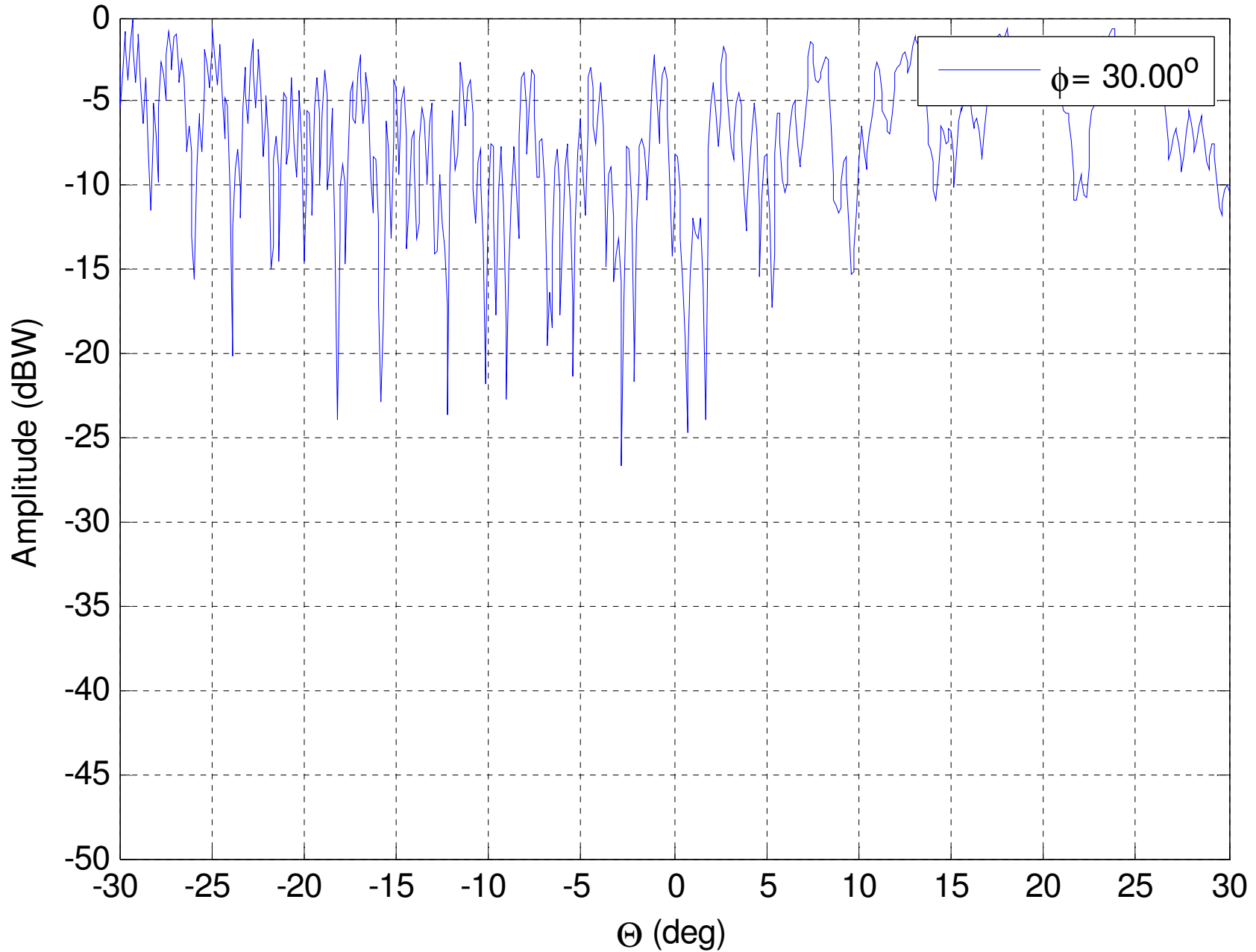
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp-20.cut, Peak: 3.04 dBW, Date: 06-Dec-2011



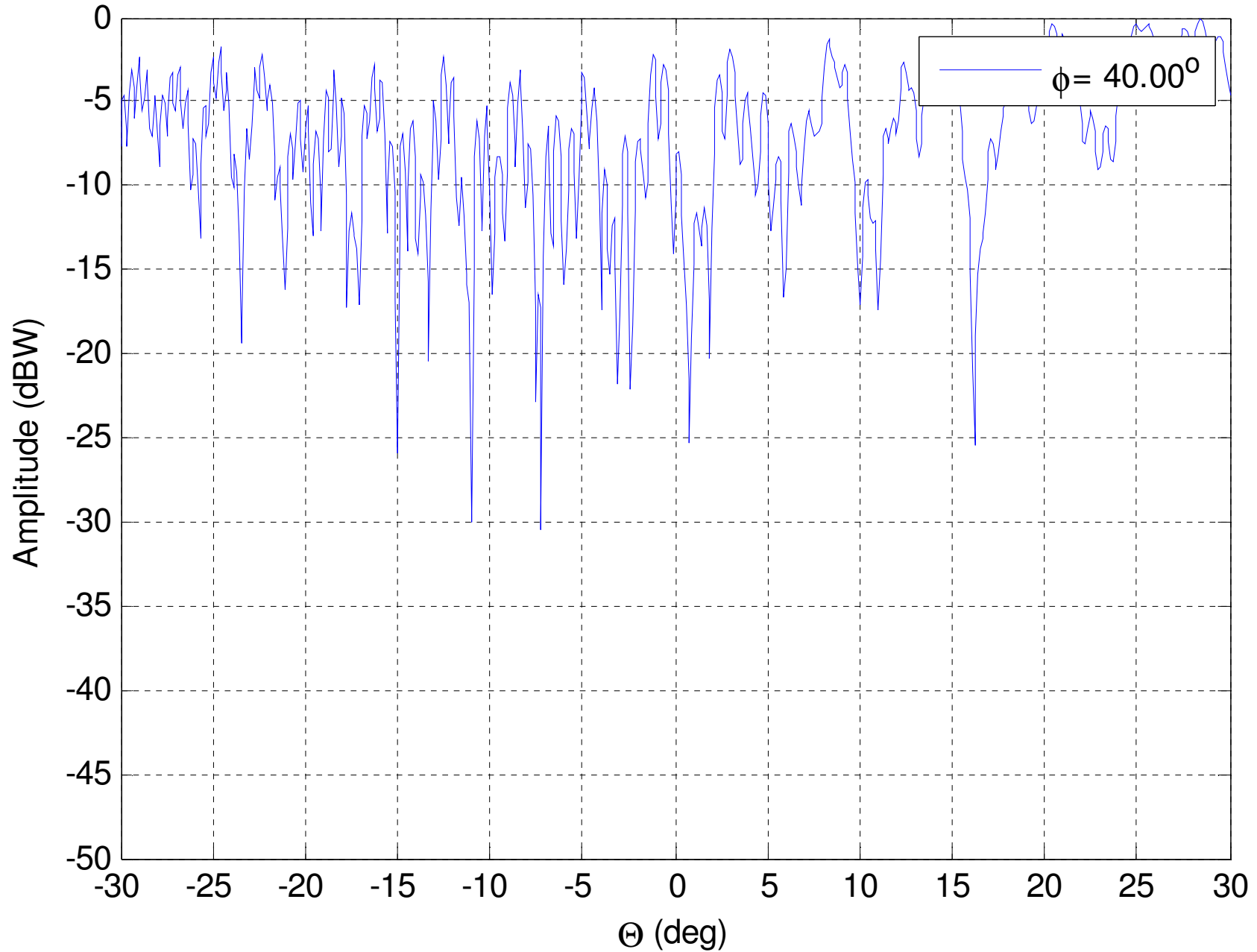
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp-30.cut, Peak: 1.43 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

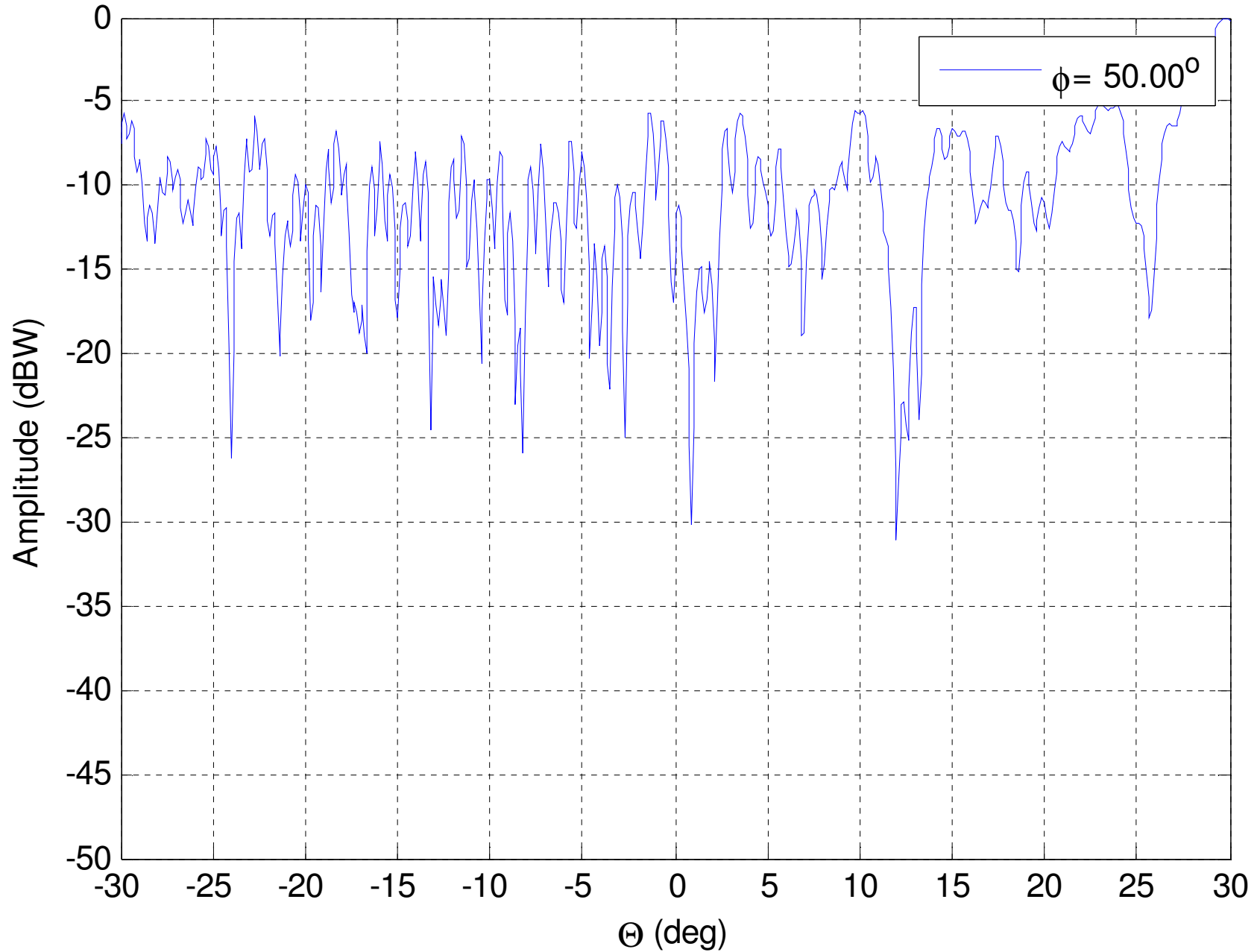
Input file: tx-17.3-rhcp-40.cut, Peak: 1.30 dBW, Date: 06-Dec-2011





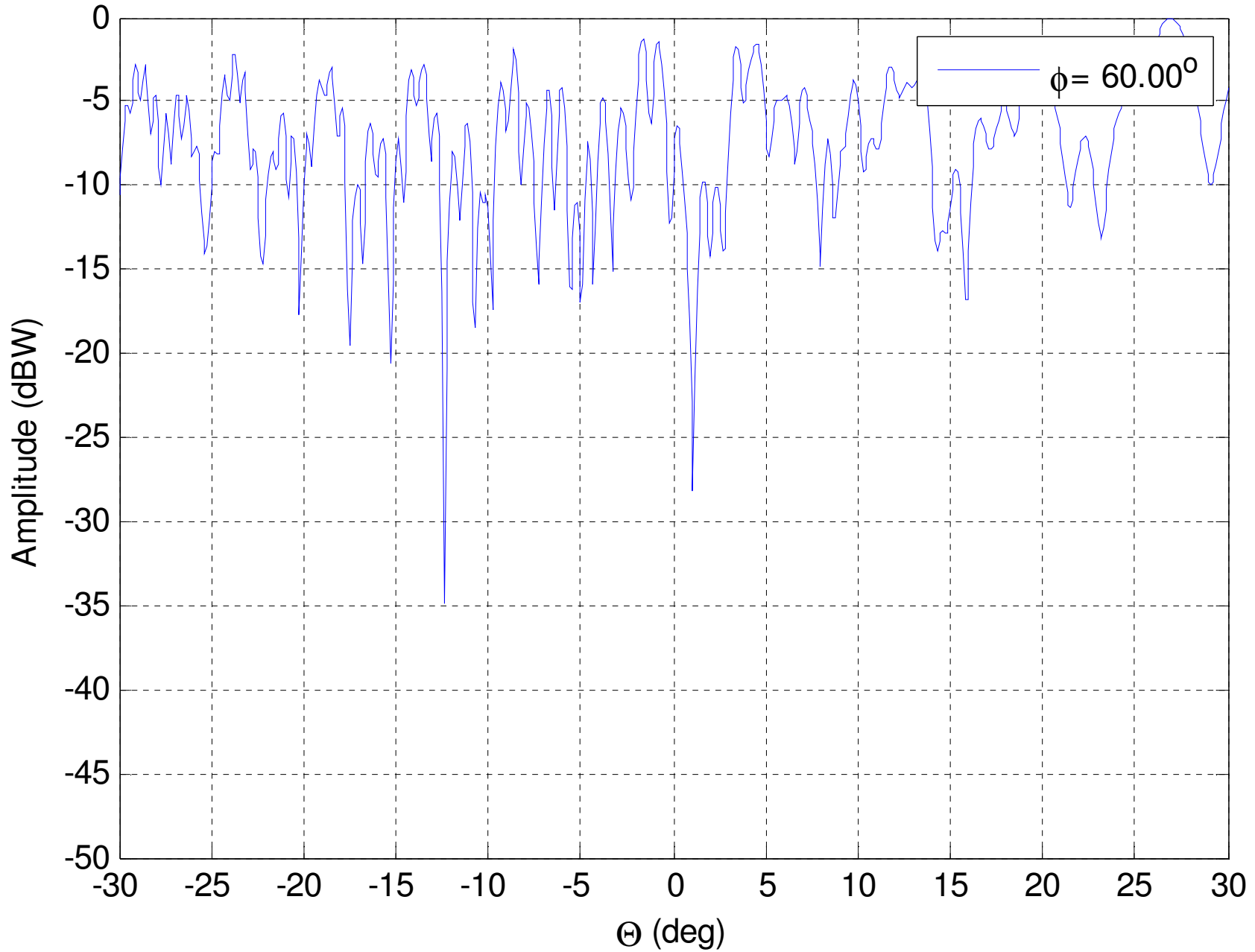
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp-50.cut, Peak: 4.60 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

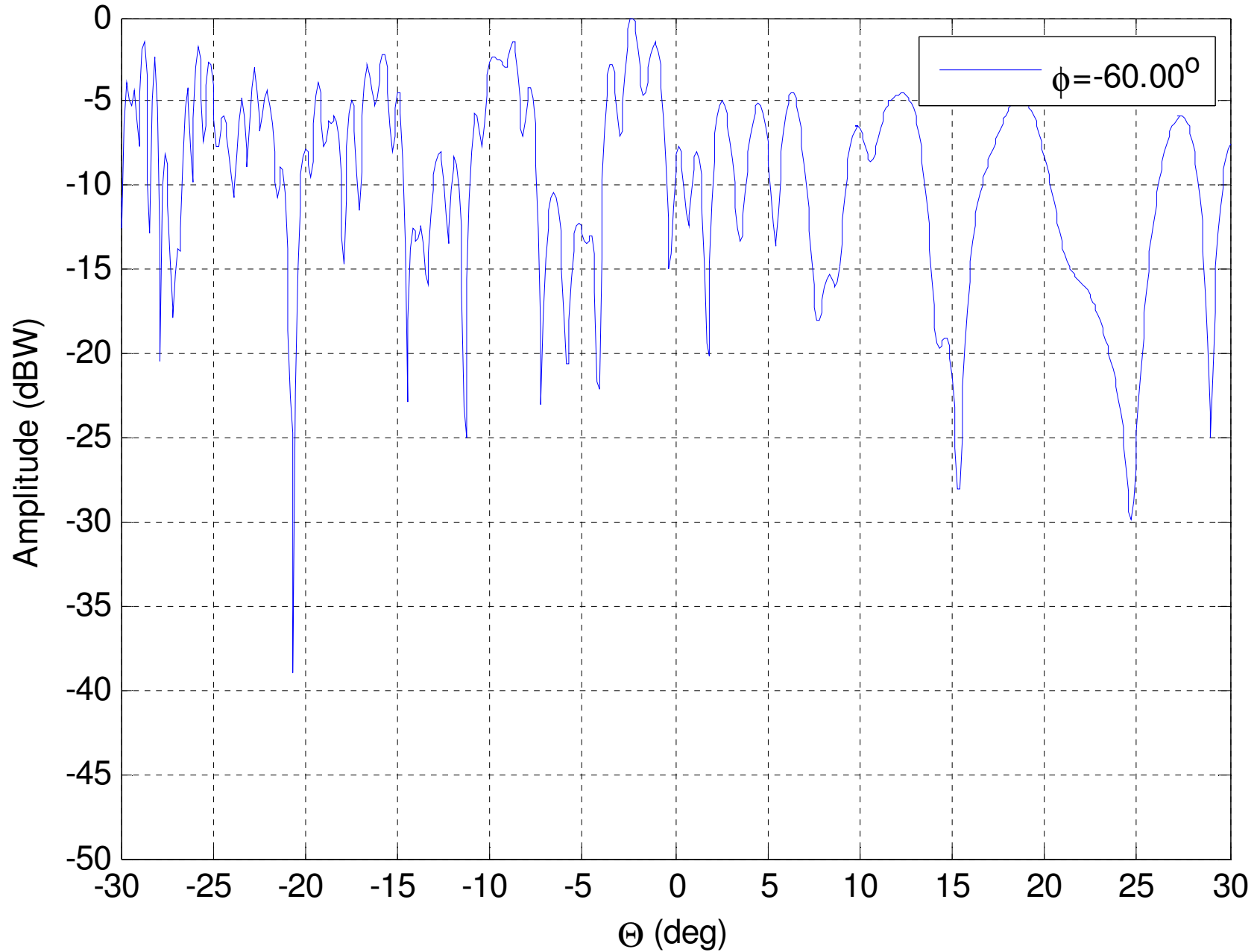
Input file: tx-17.3-rhcp-60.cut, Peak: -0.04 dBW, Date: 06-Dec-2011



**LHCP at 17.3 GHz**

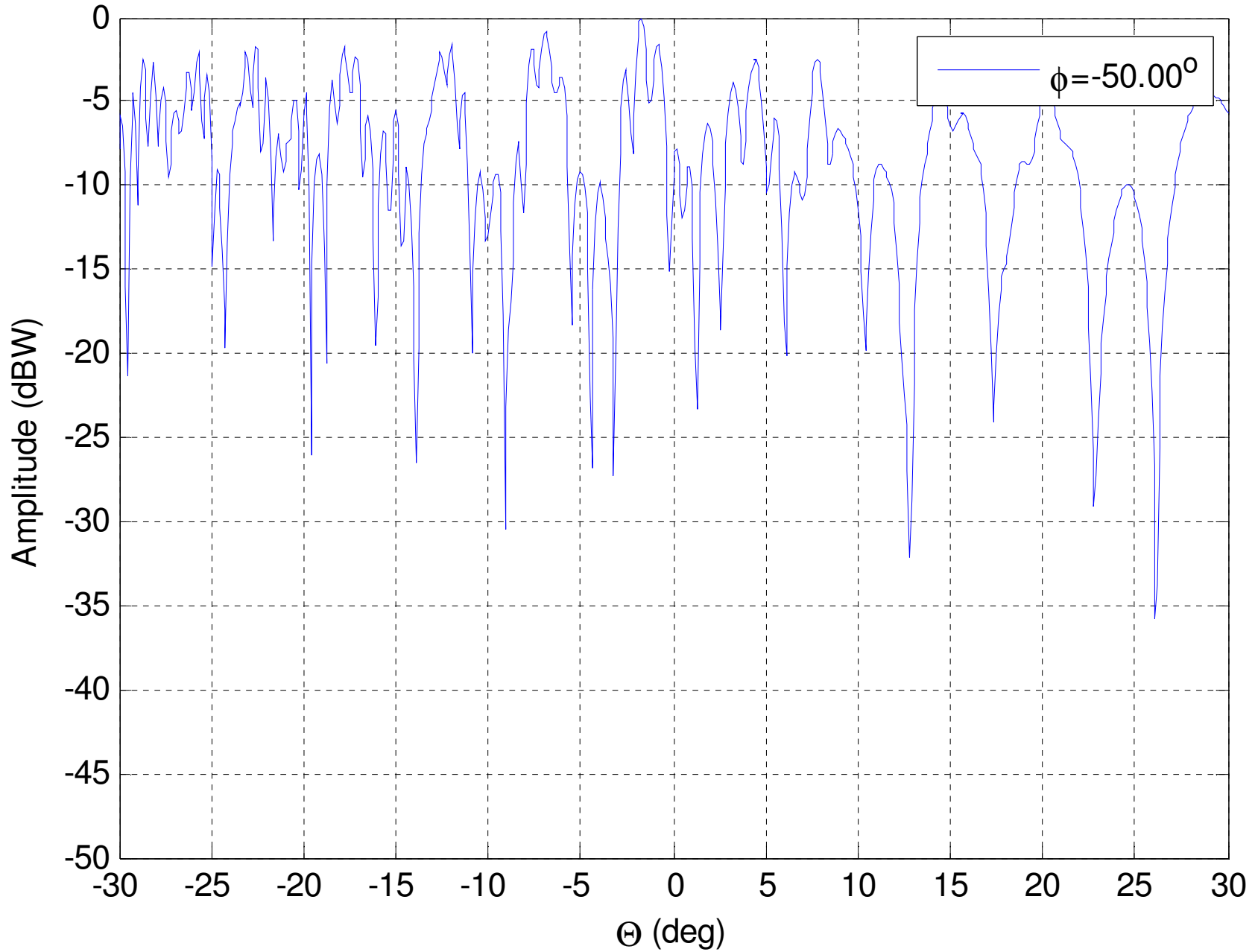
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp--60.cut, Peak: -0.65 dBW, Date: 06-Dec-2011



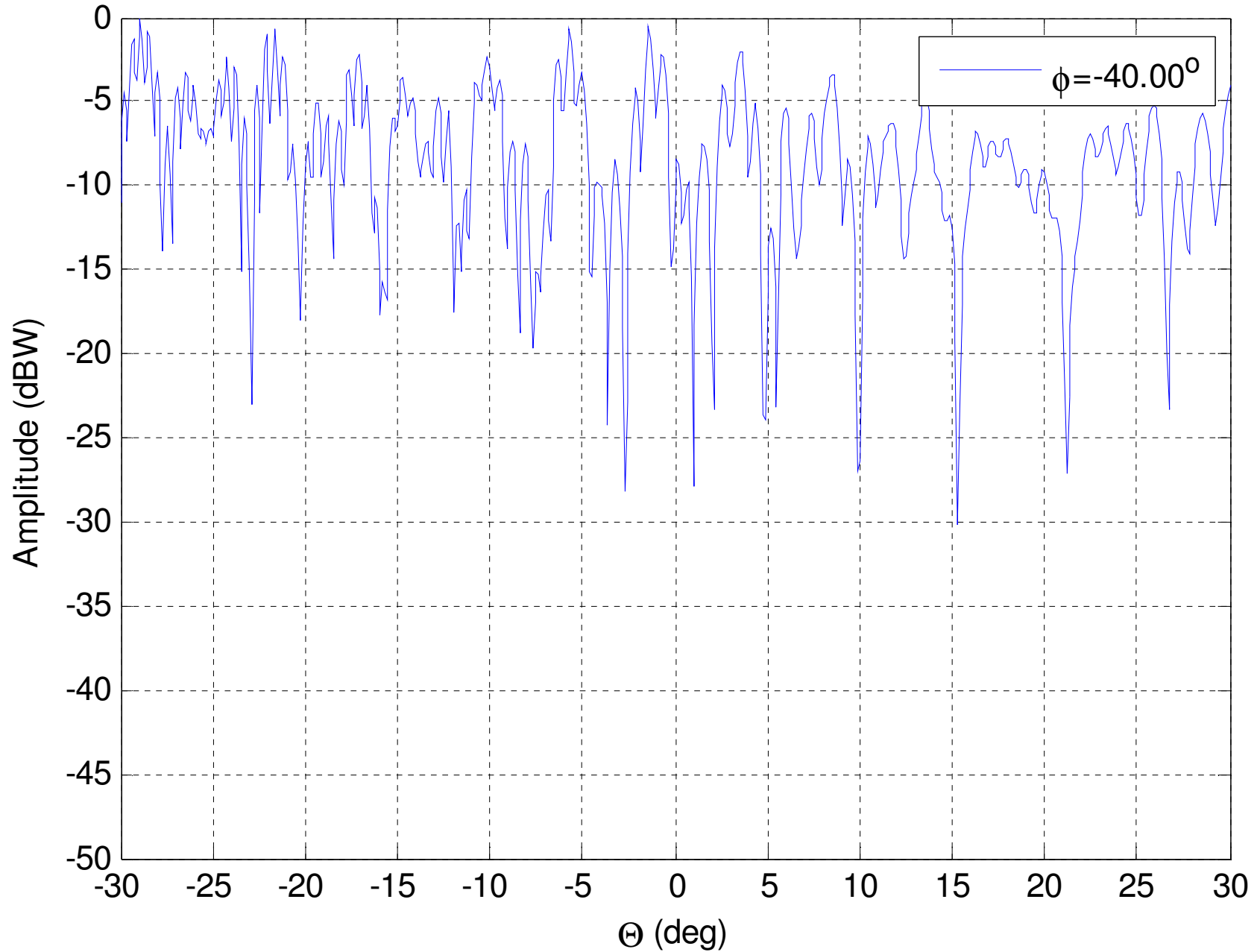
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp--50.cut, Peak: -0.60 dBW, Date: 06-Dec-2011



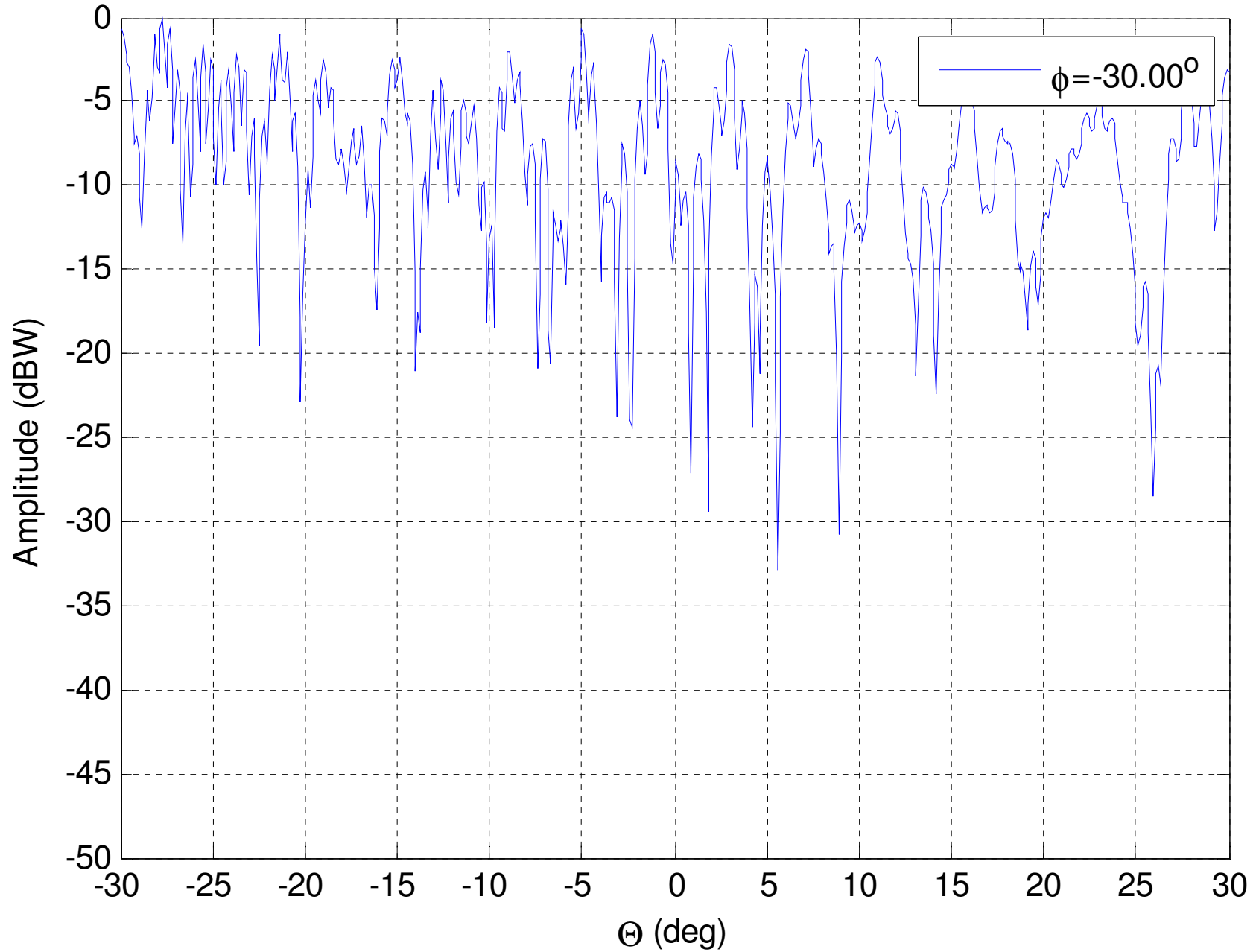
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp--40.cut, Peak: -0.00 dBW, Date: 06-Dec-2011



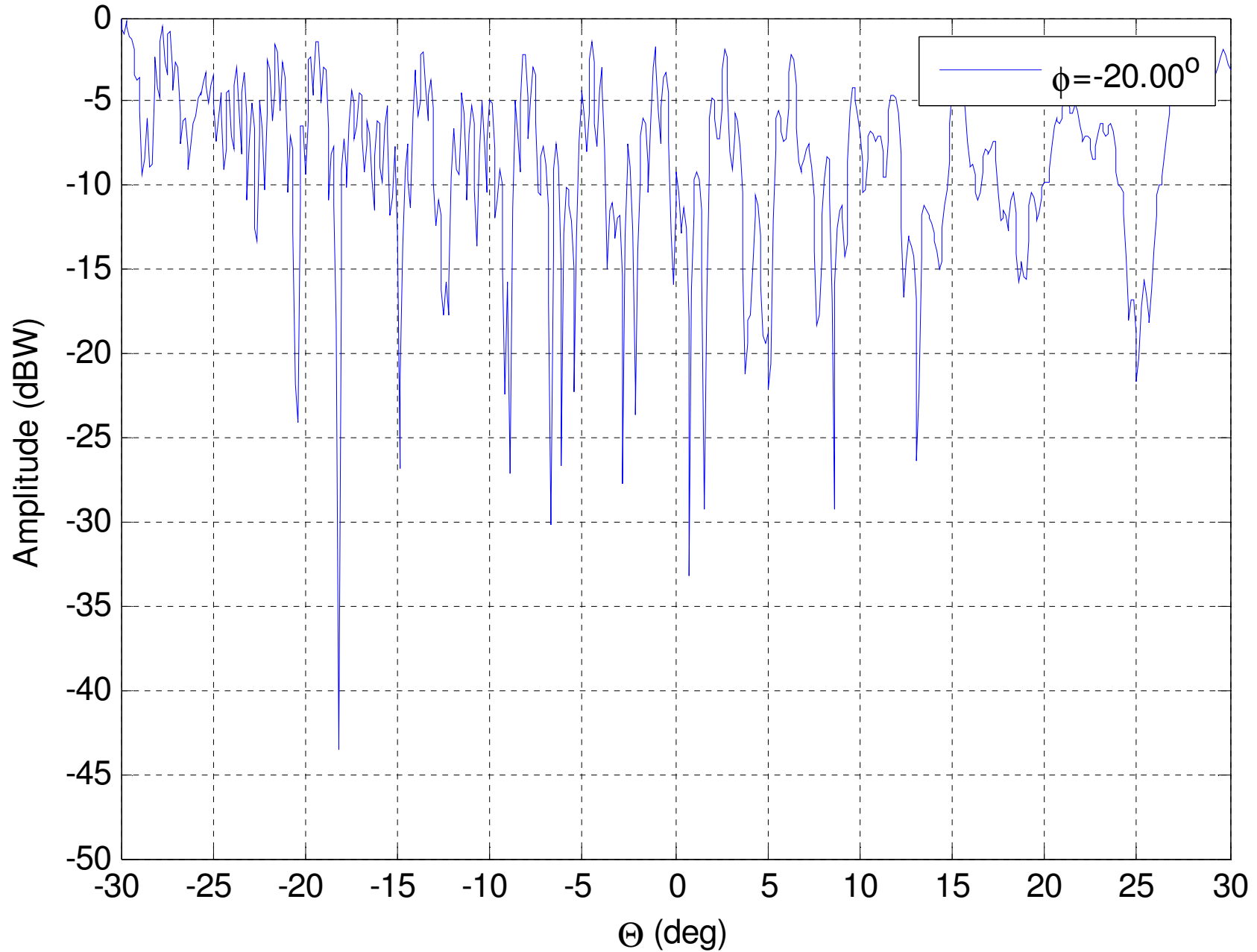
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp--30.cut, Peak: 0.28 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

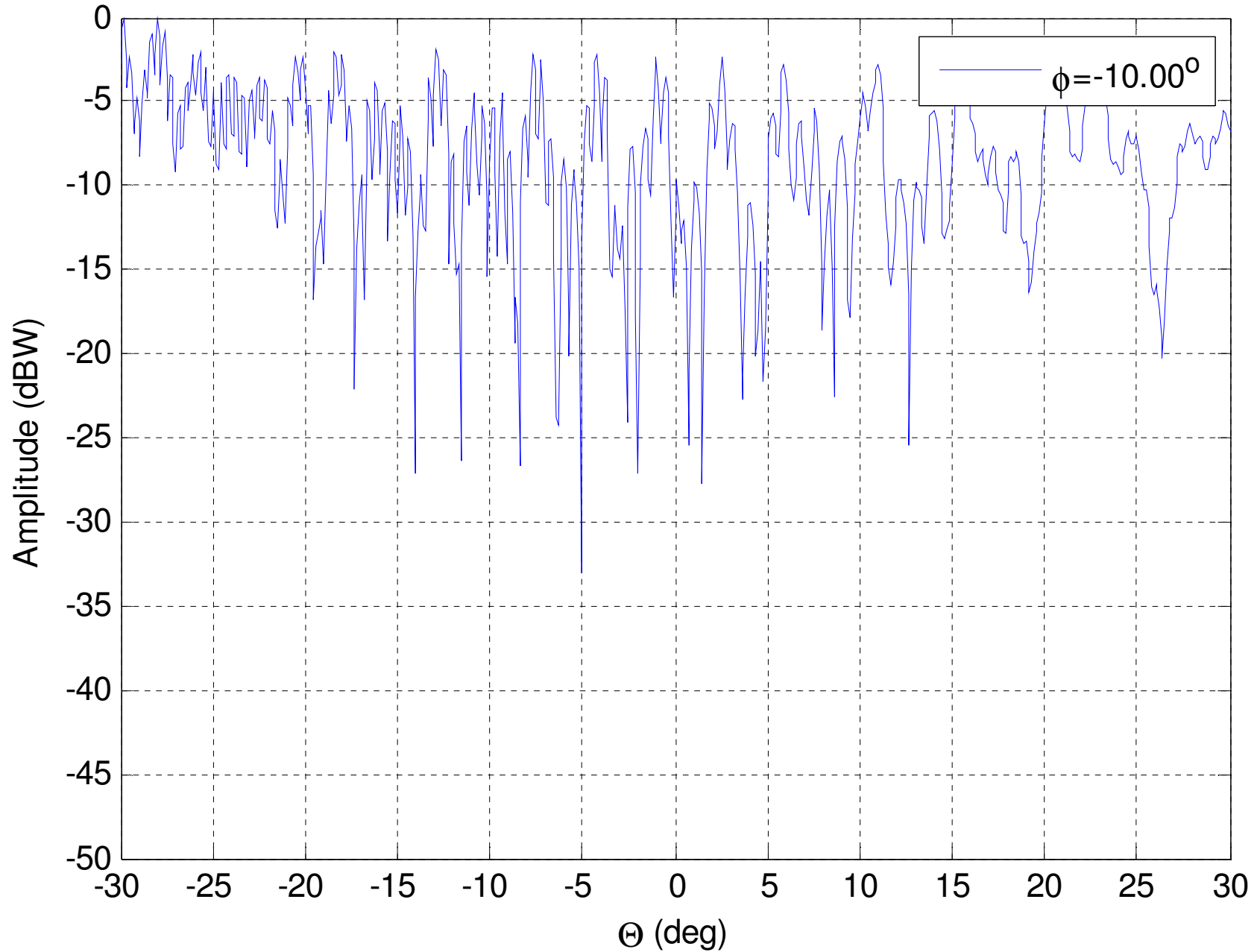
Input file: tx-17.3-lhcp--20.cut, Peak: 1.04 dBW, Date: 06-Dec-2011





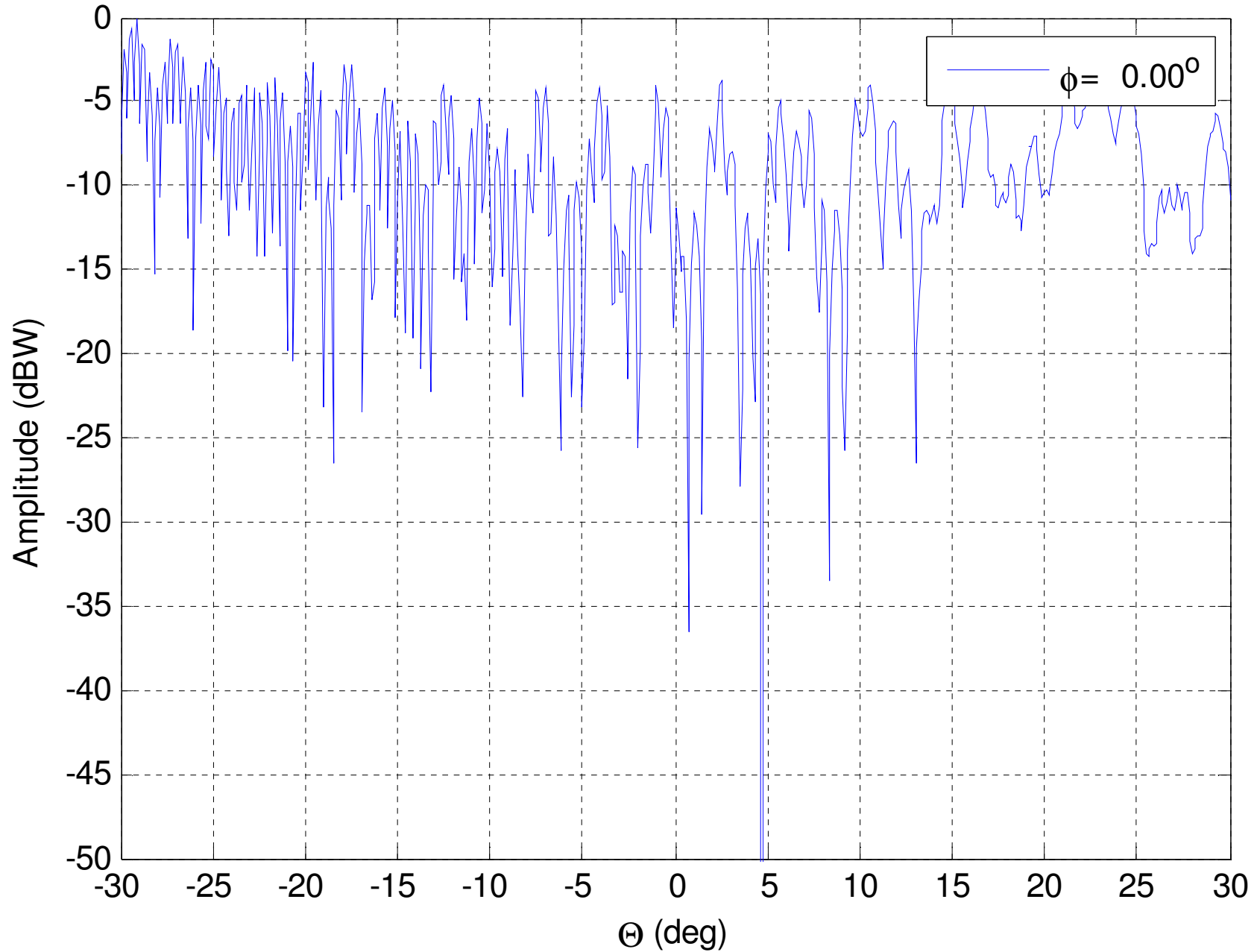
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp--10.cut, Peak: 1.48 dBW, Date: 06-Dec-2011



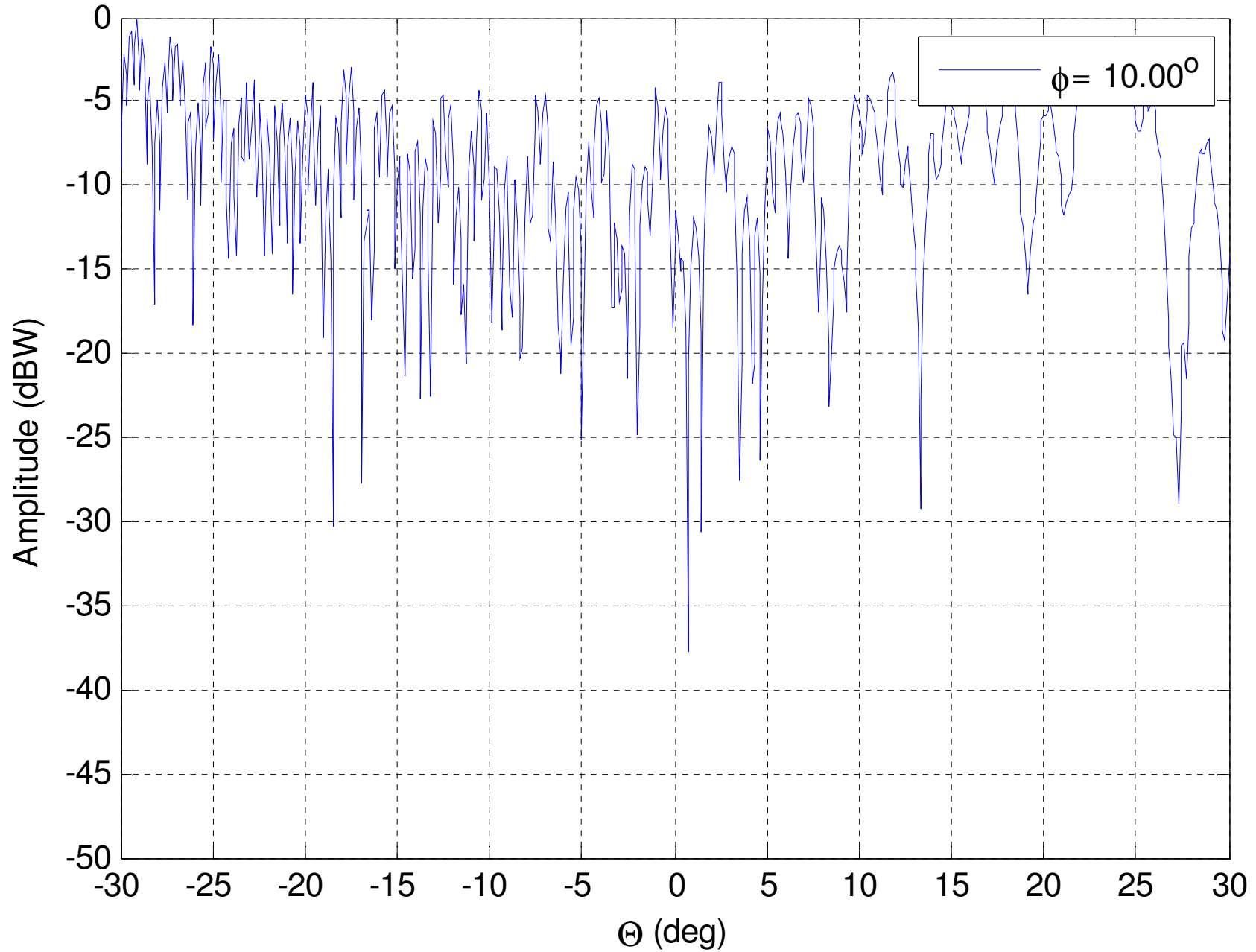
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp-0.cut, Peak: 3.18 dBW, Date: 06-Dec-2011



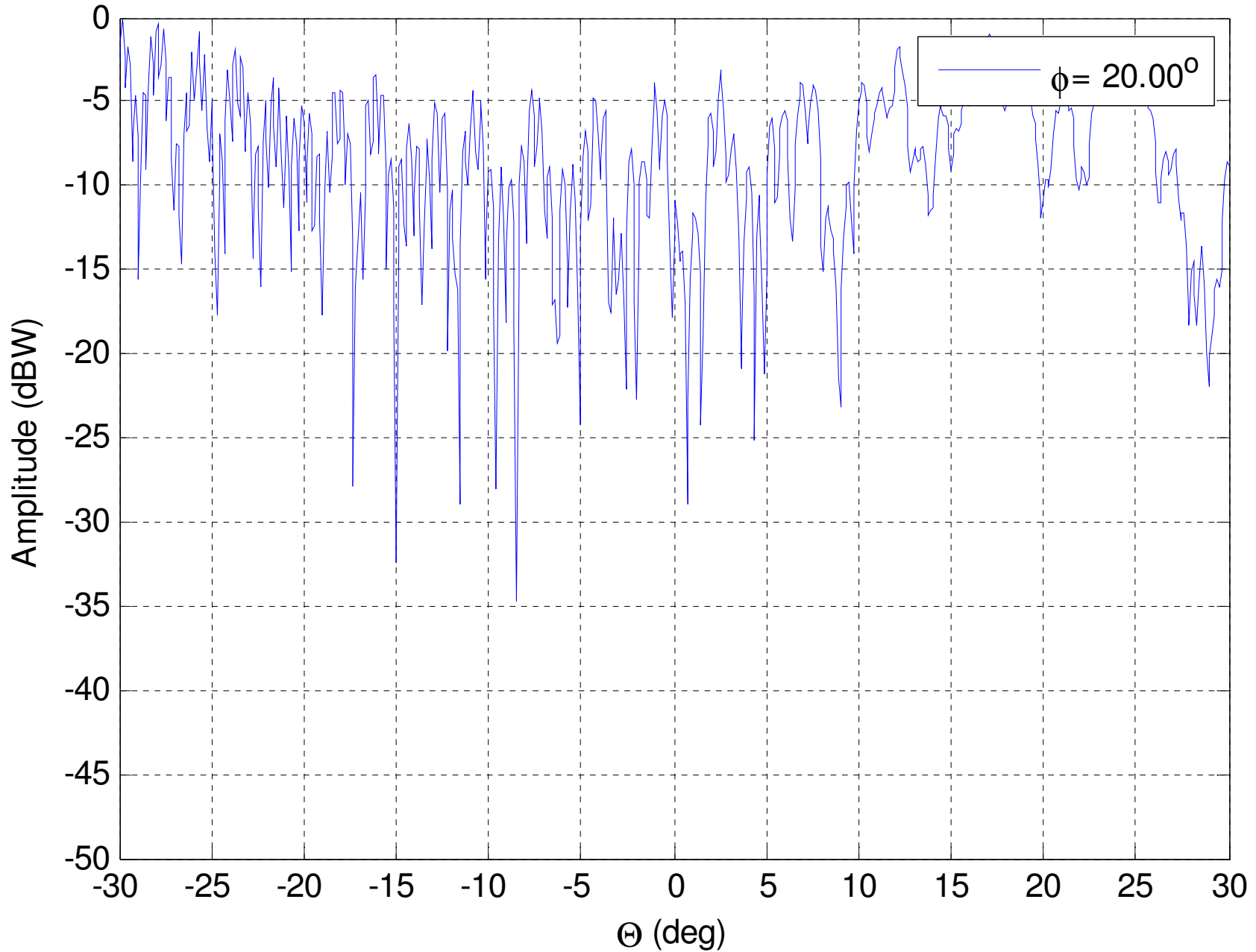
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp-10.cut, Peak: 3.25 dBW, Date: 06-Dec-2011



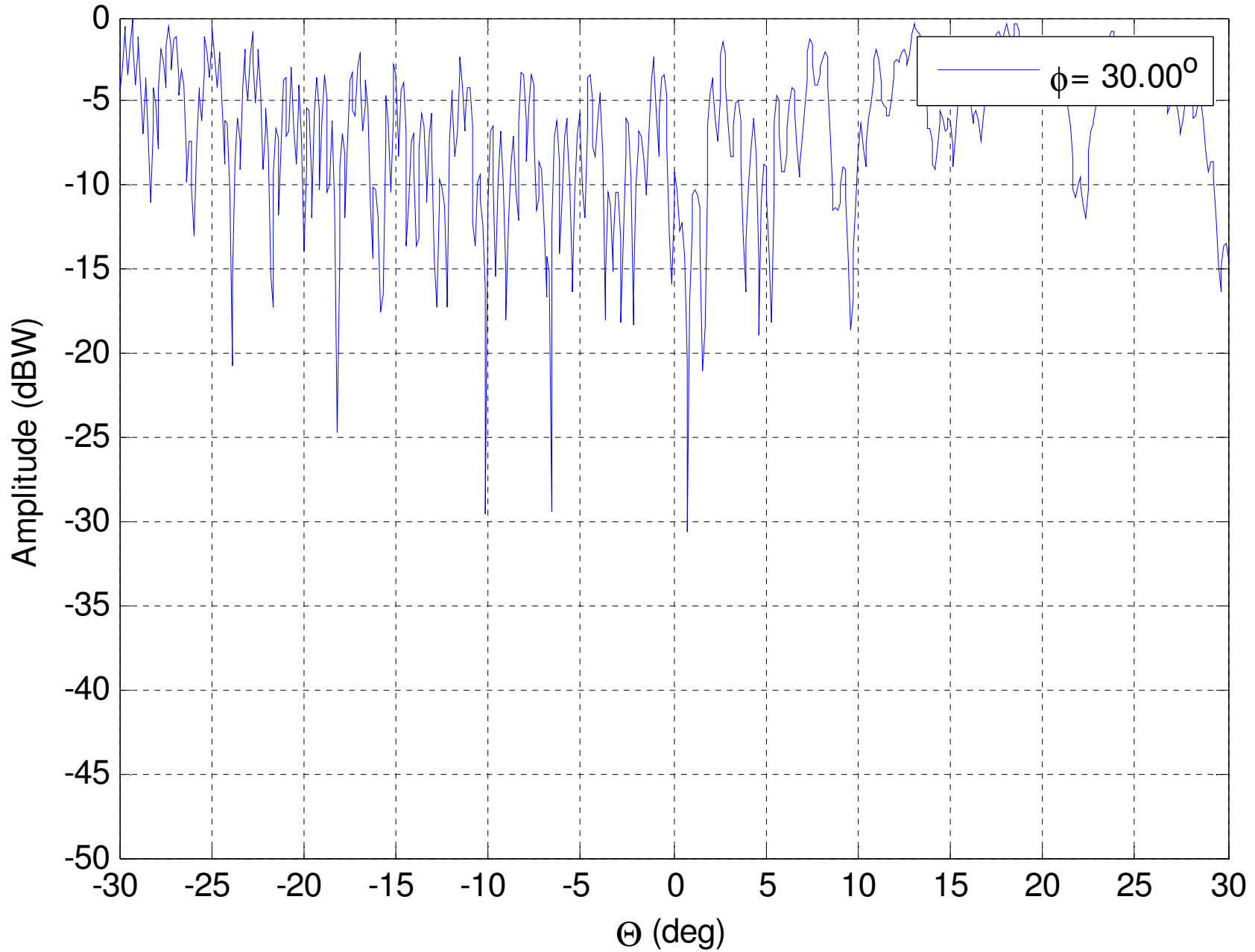
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp-20.cut, Peak: 2.75 dBW, Date: 06-Dec-2011



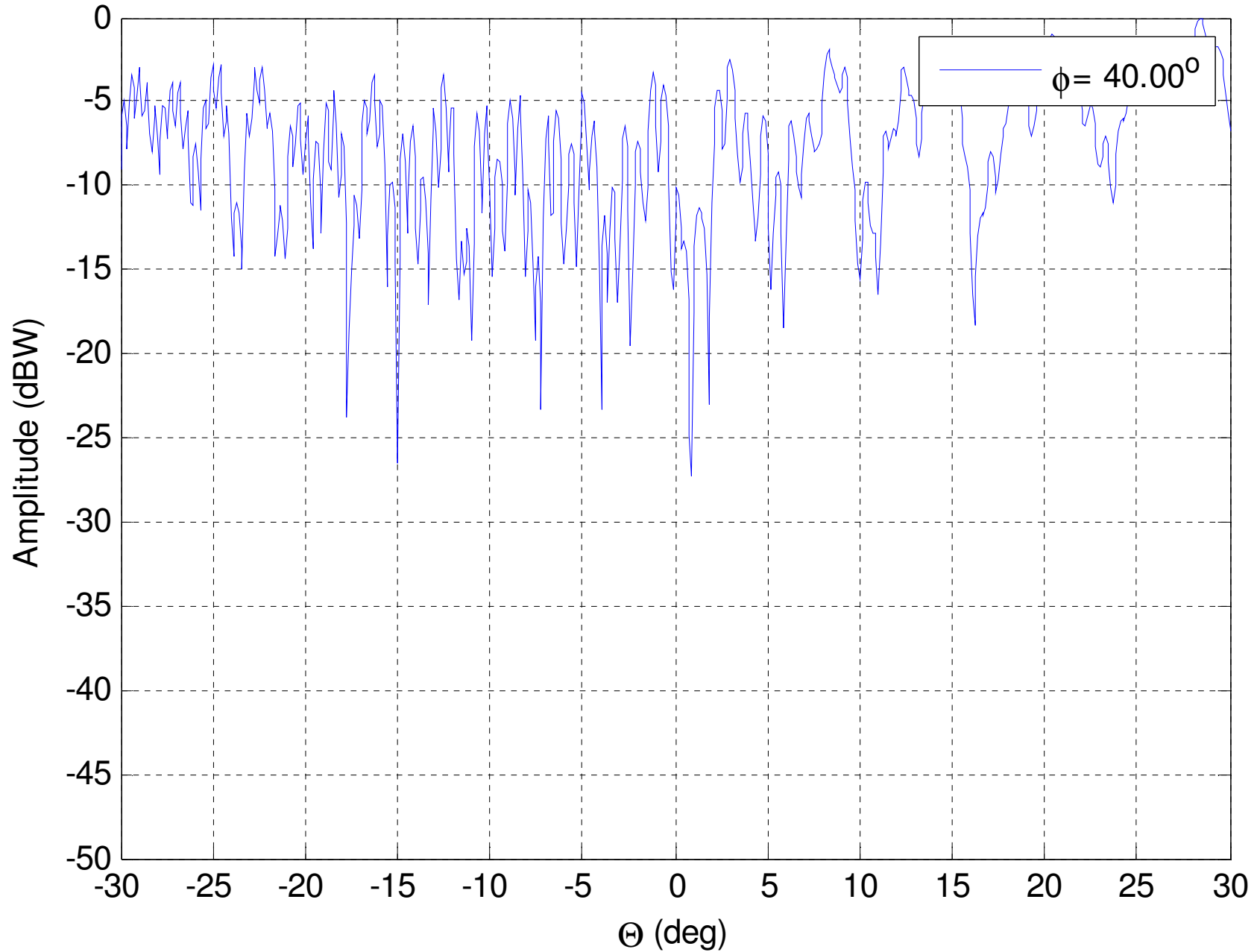
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp-30.cut, Peak: 1.07 dBW, Date: 06-Dec-2011



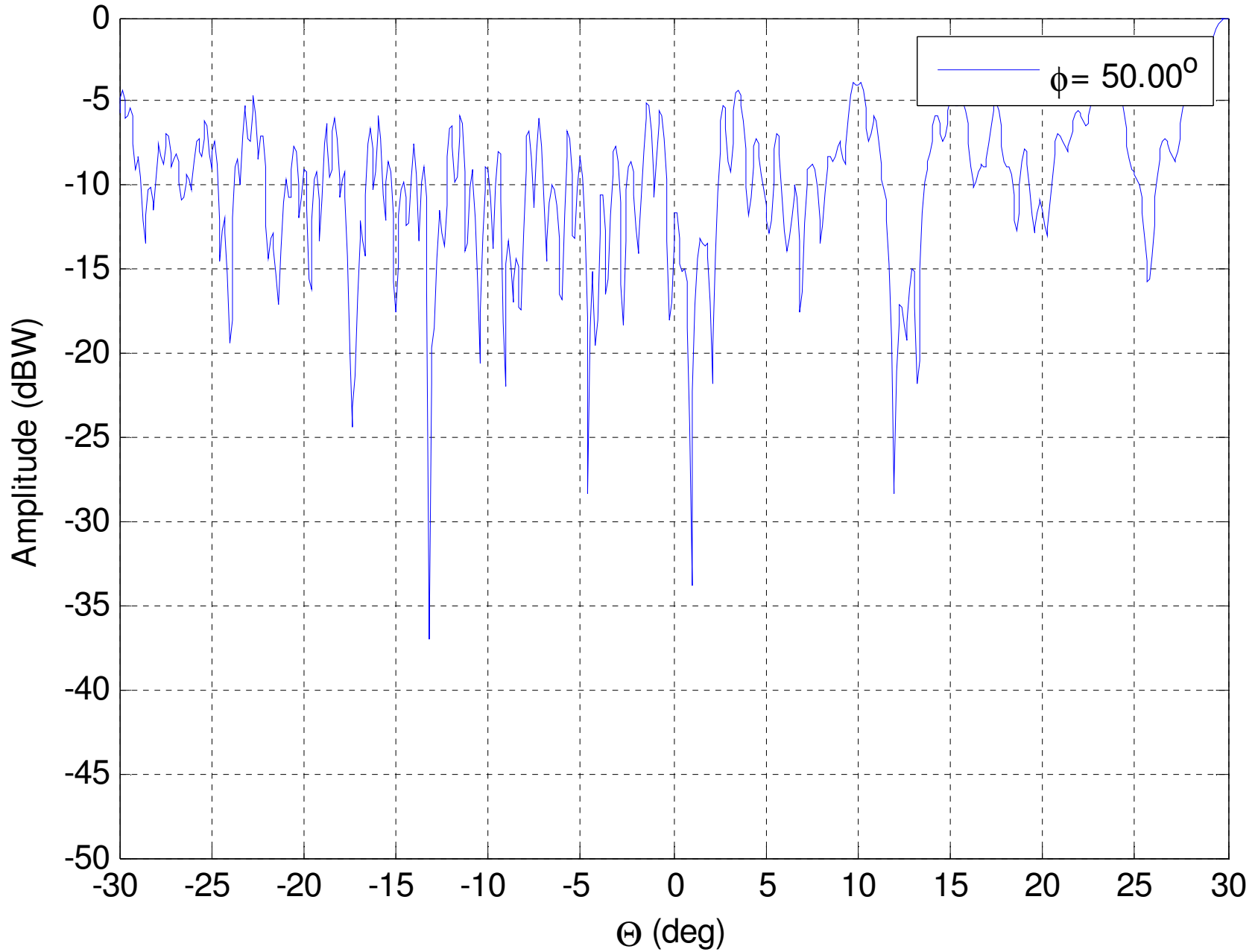
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp-40.cut, Peak: 1.89 dBW, Date: 06-Dec-2011



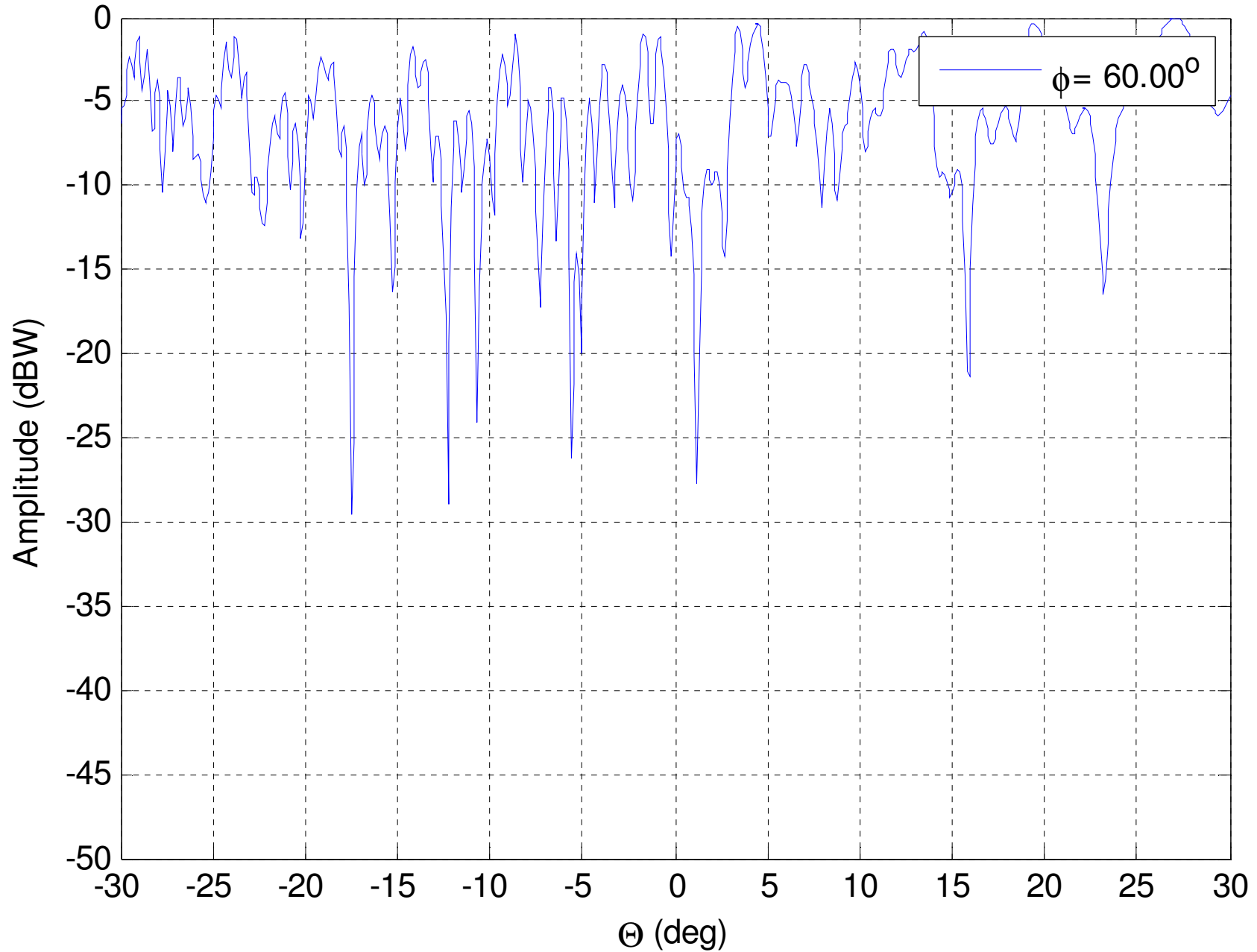
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp-50.cut, Peak: 3.33 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp-60.cut, Peak: -1.11 dBW, Date: 06-Dec-2011

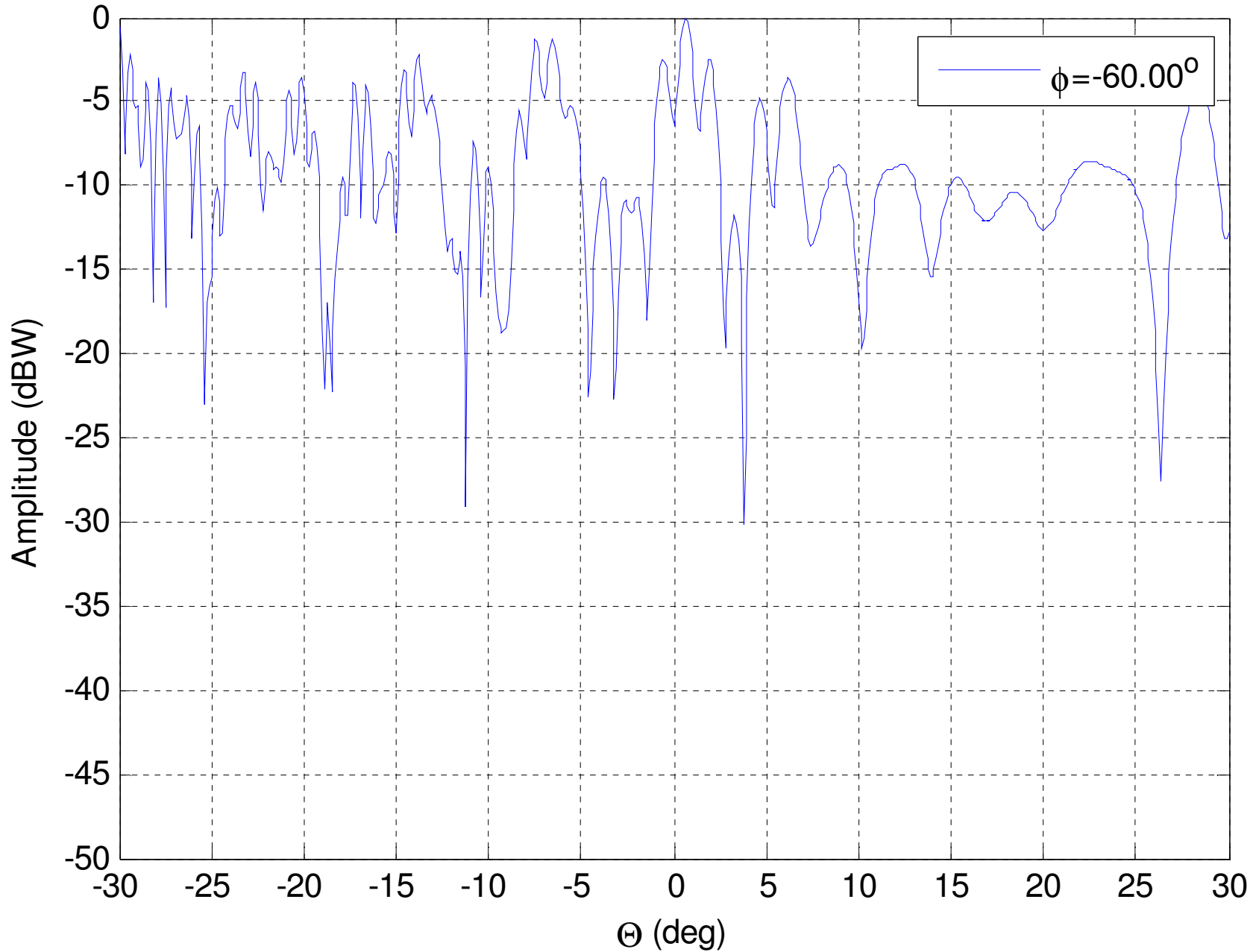




RHCP at 17.5 GHz

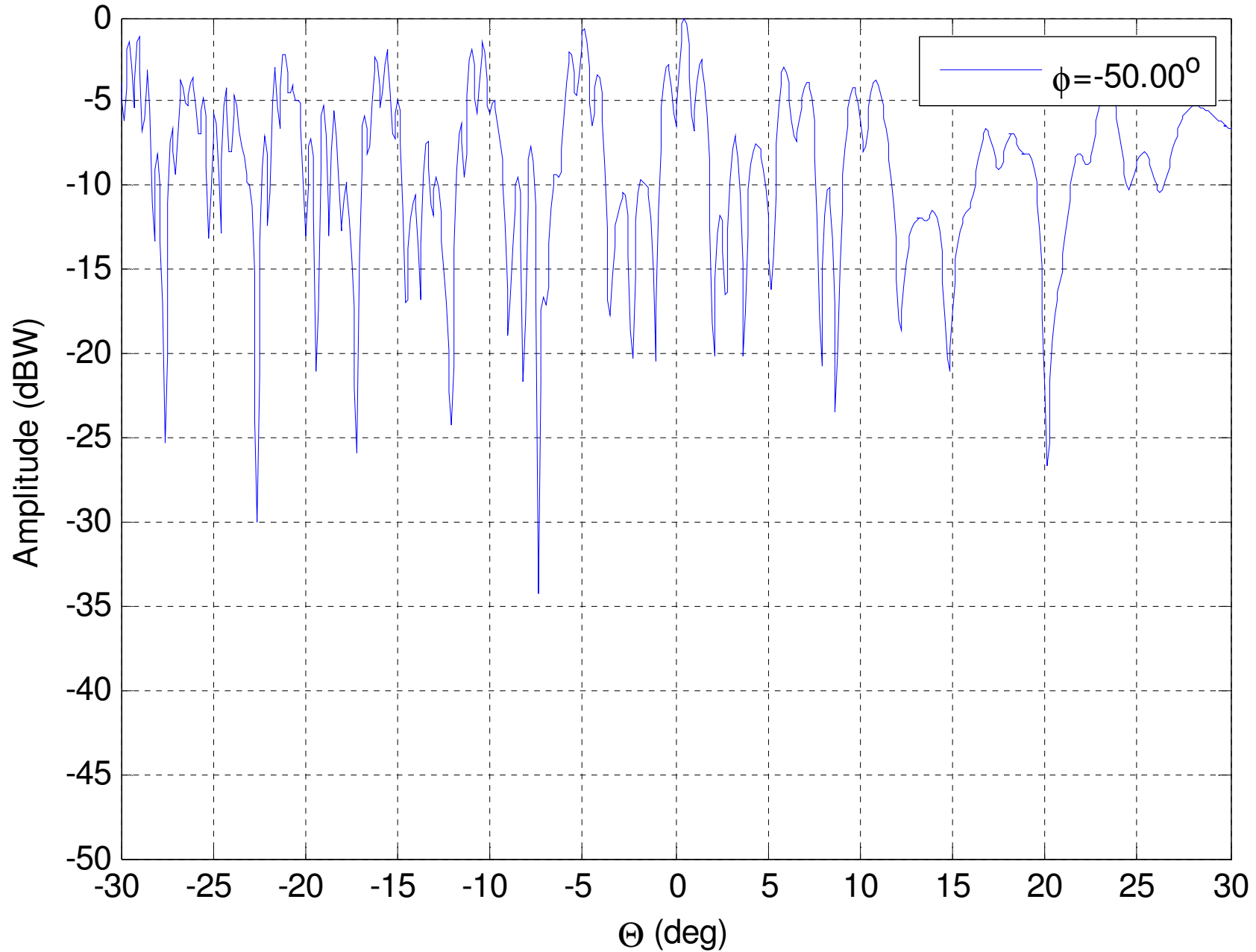
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp--60.cut, Peak: -0.72 dBW, Date: 06-Dec-2011



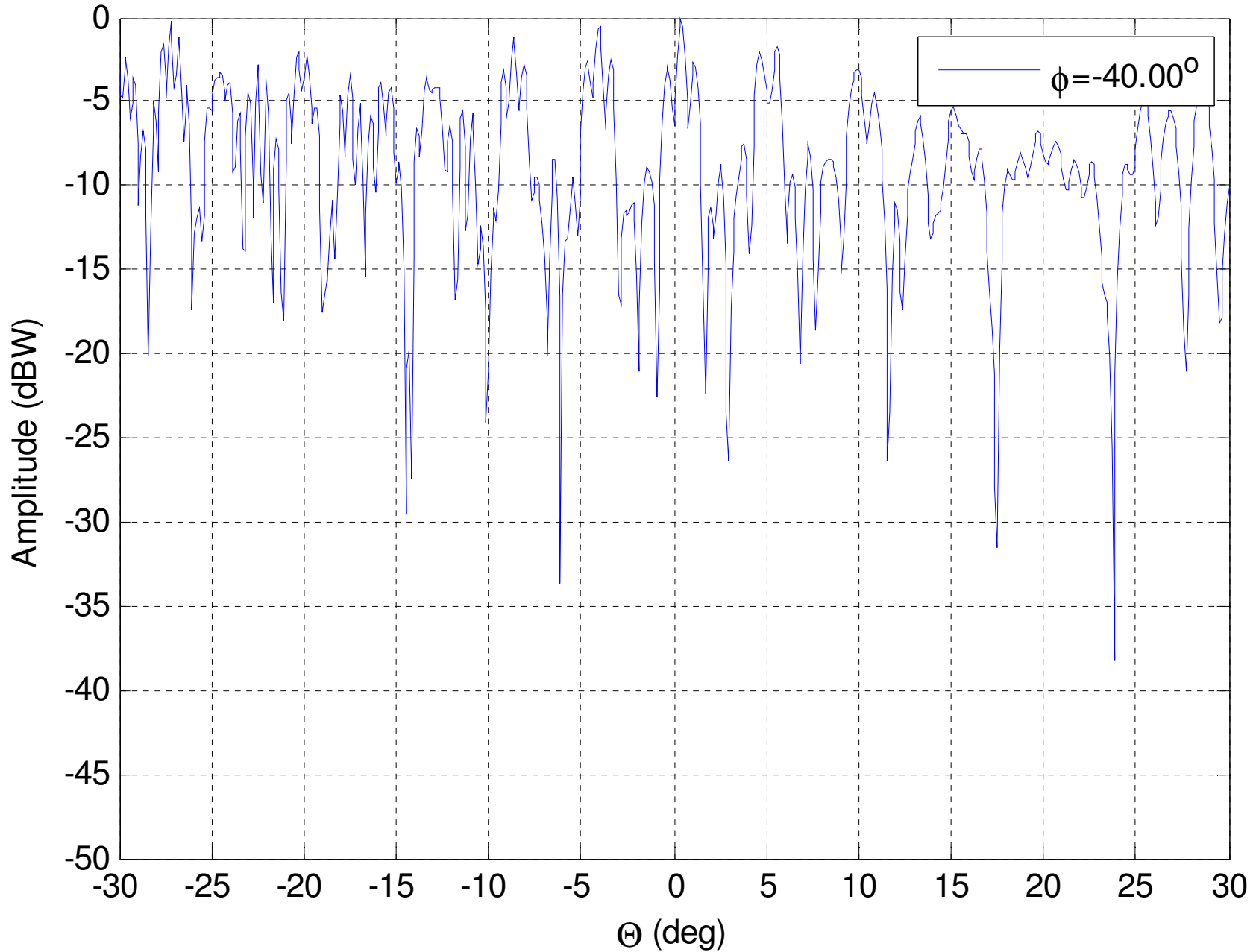
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp--50.cut, Peak: -0.63 dBW, Date: 06-Dec-2011



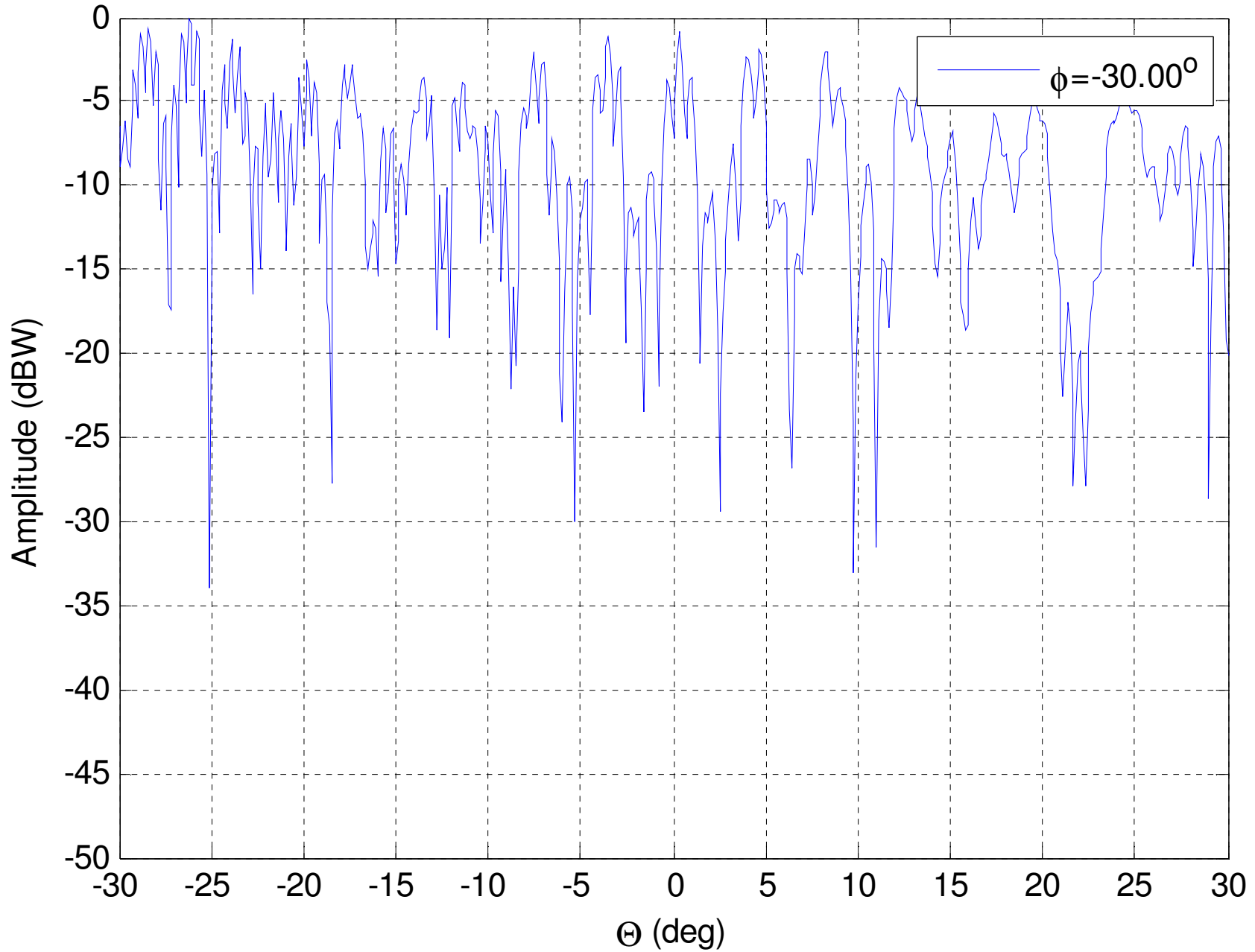
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp--40.cut, Peak: -0.59 dBW, Date: 06-Dec-2011



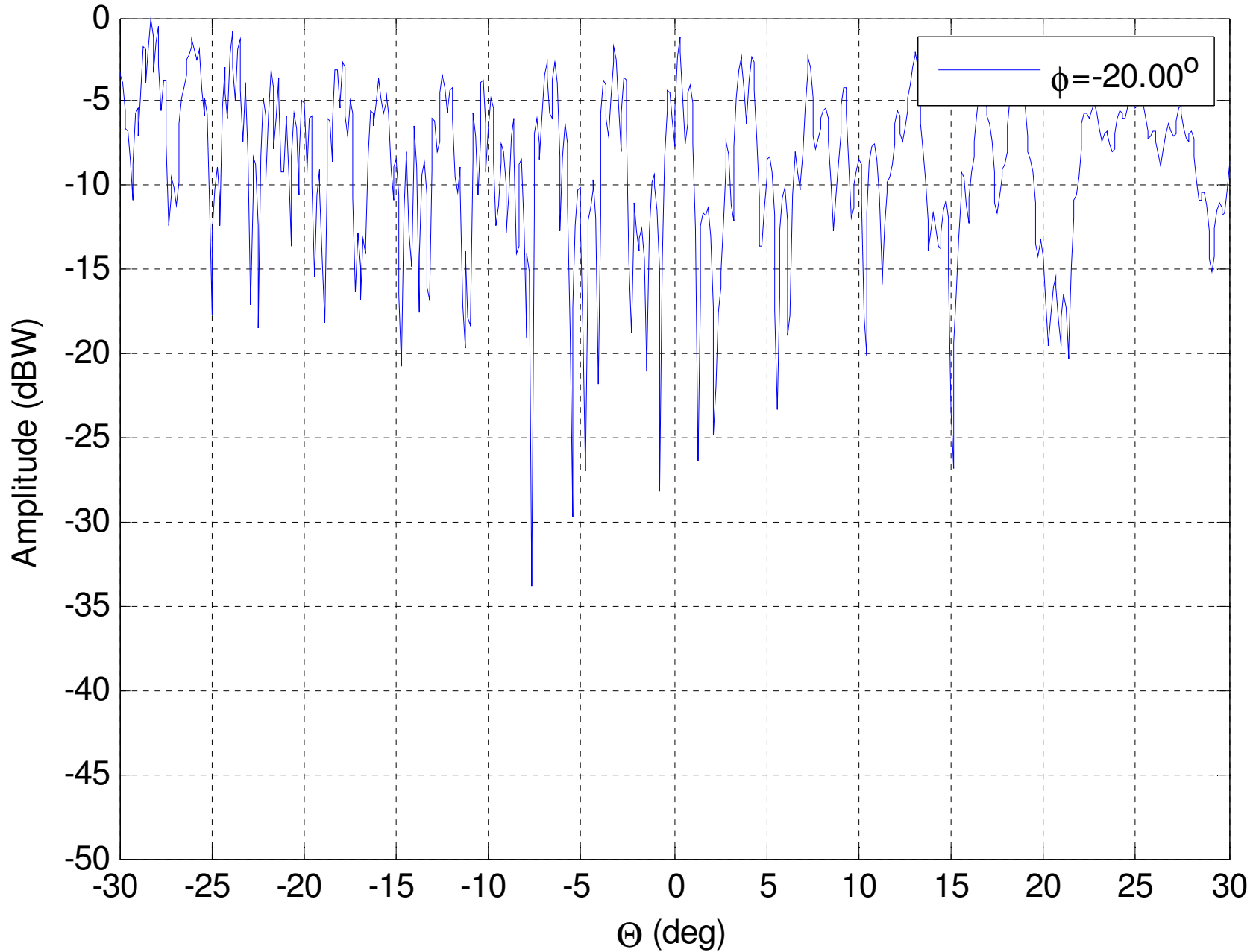
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp--30.cut, Peak: 0.13 dBW, Date: 06-Dec-2011



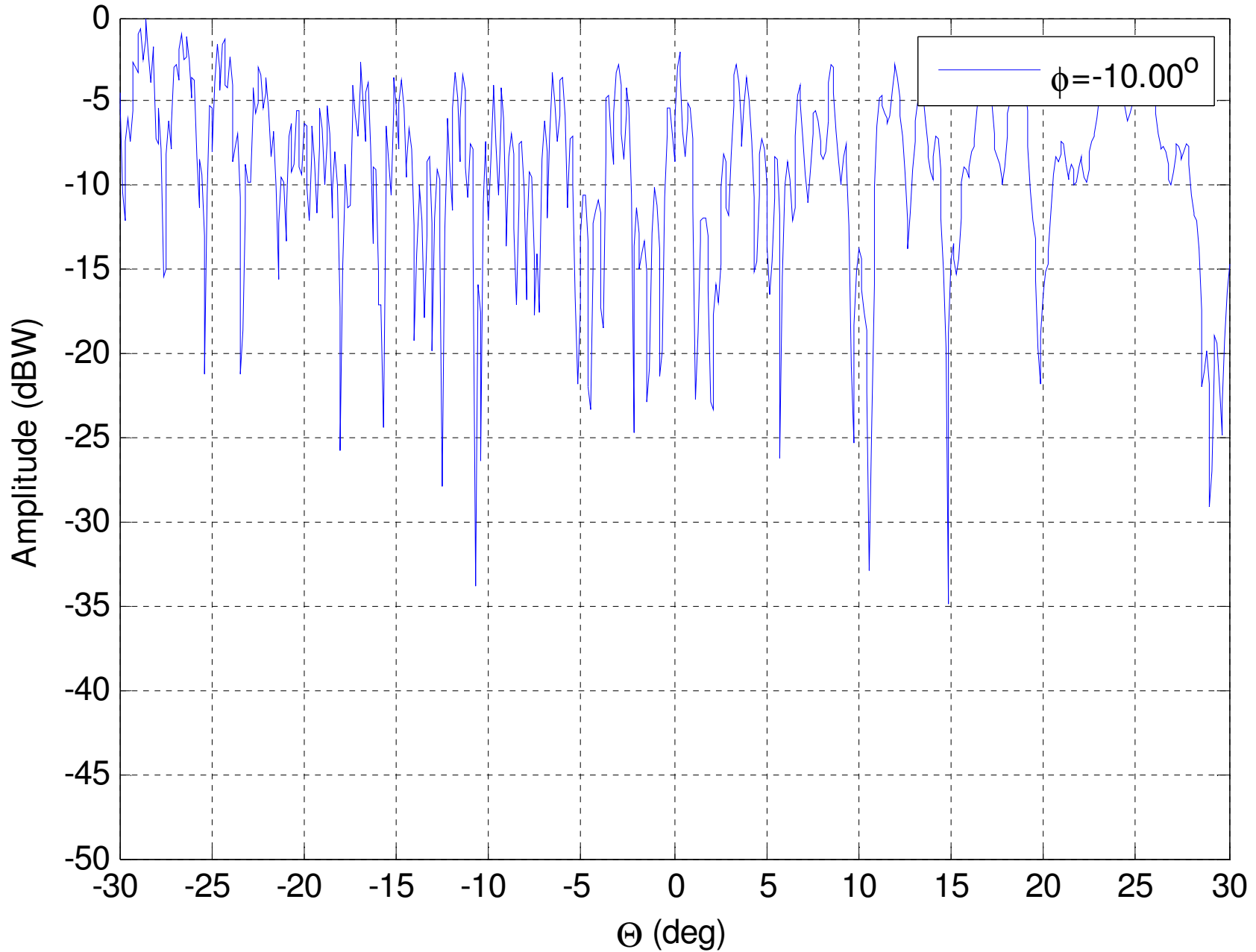
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp--20.cut, Peak: 0.63 dBW, Date: 06-Dec-2011



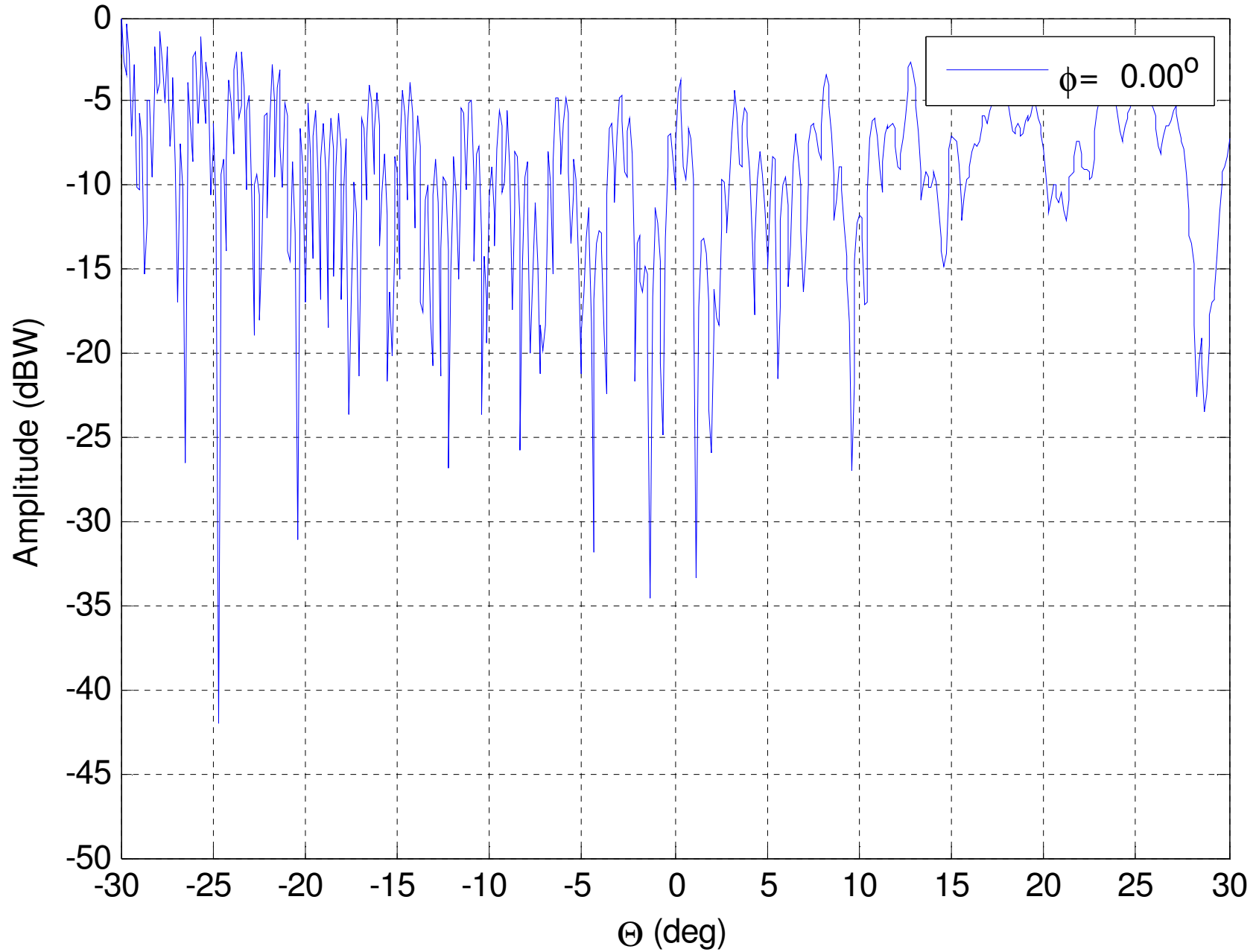
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp--10.cut, Peak: 1.53 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

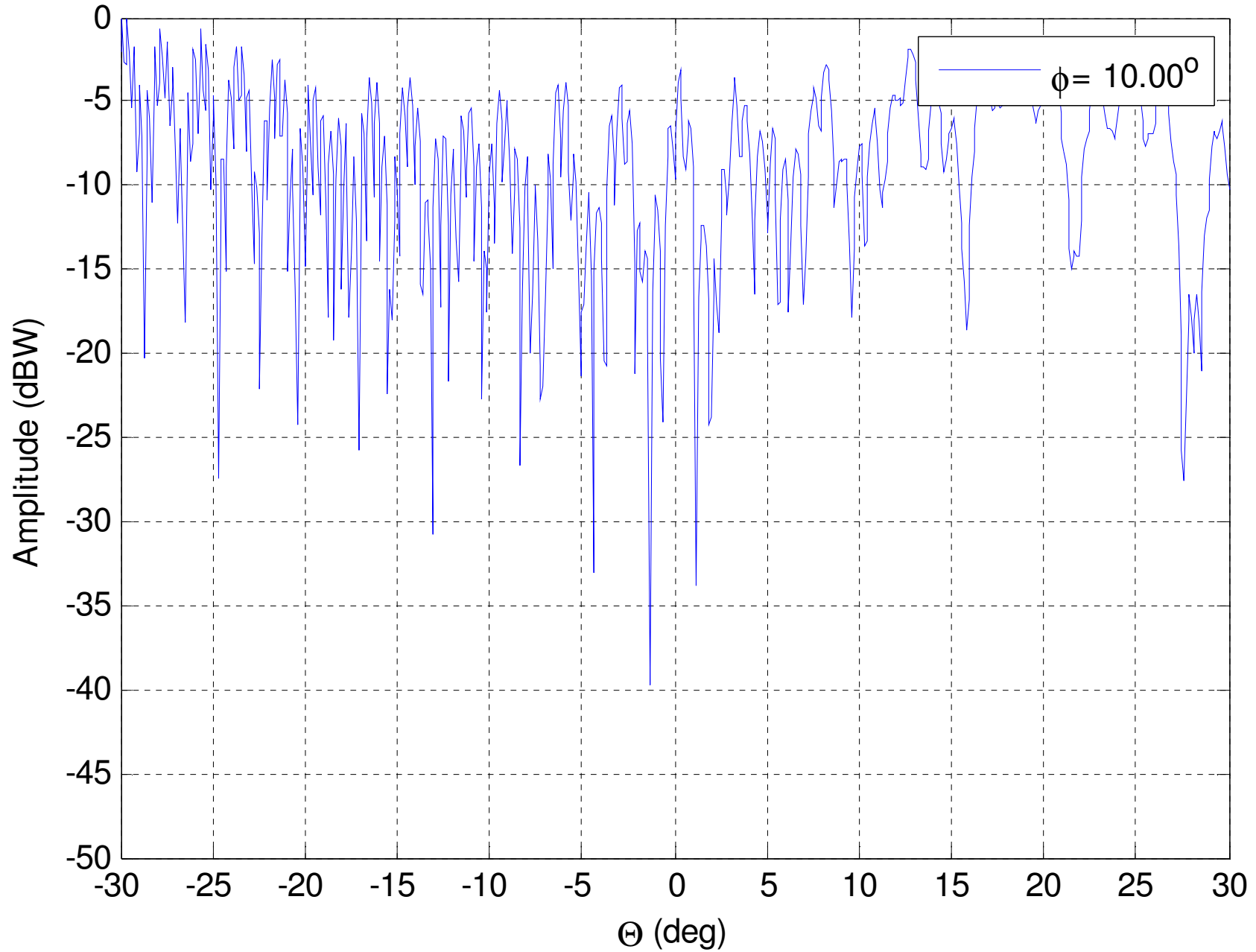
Input file: tx-17.5-rhcp-0.cut, Peak: 3.15 dBW, Date: 06-Dec-2011





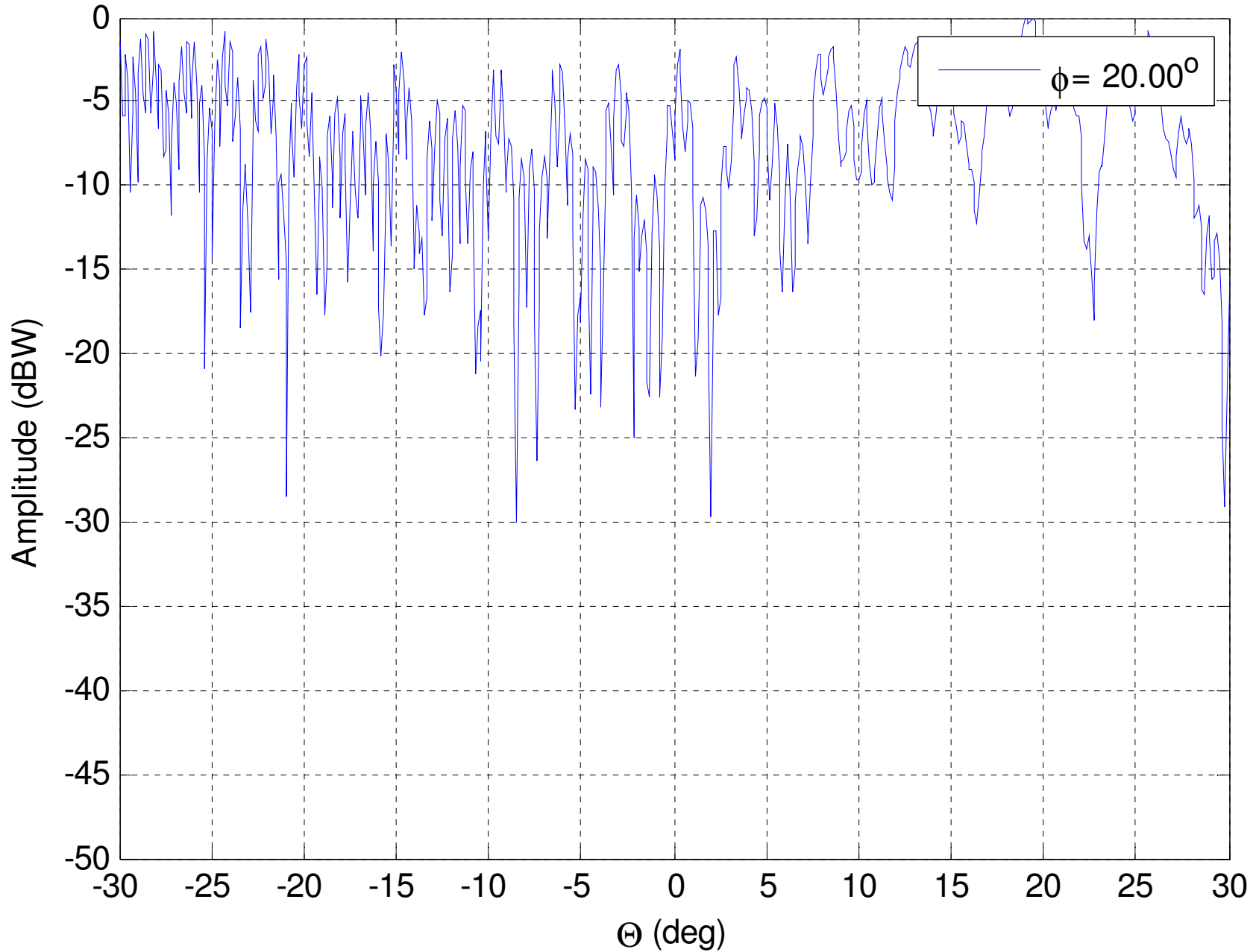
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp-10.cut, Peak: 2.57 dBW, Date: 06-Dec-2011



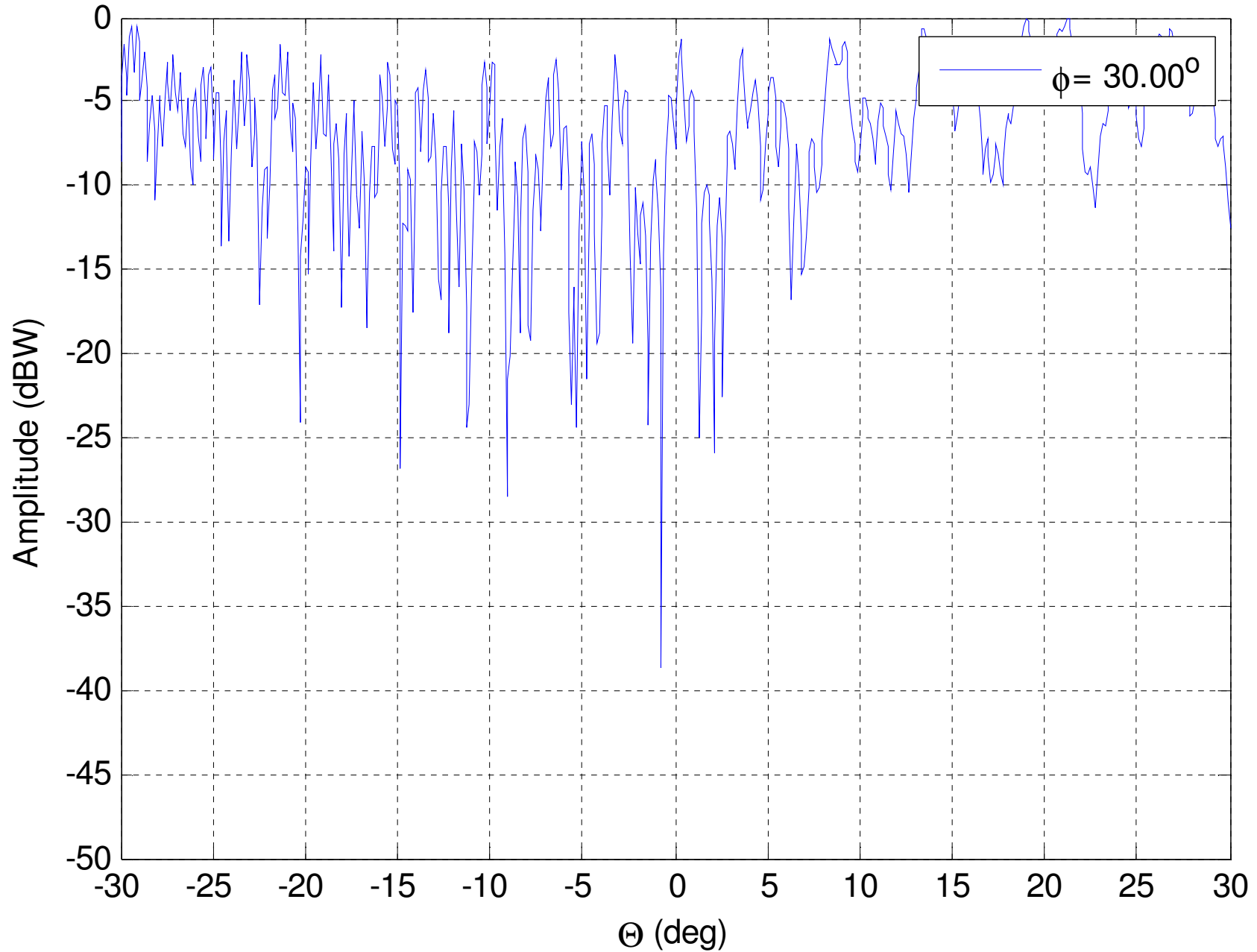
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp-20.cut, Peak: 1.34 dBW, Date: 06-Dec-2011



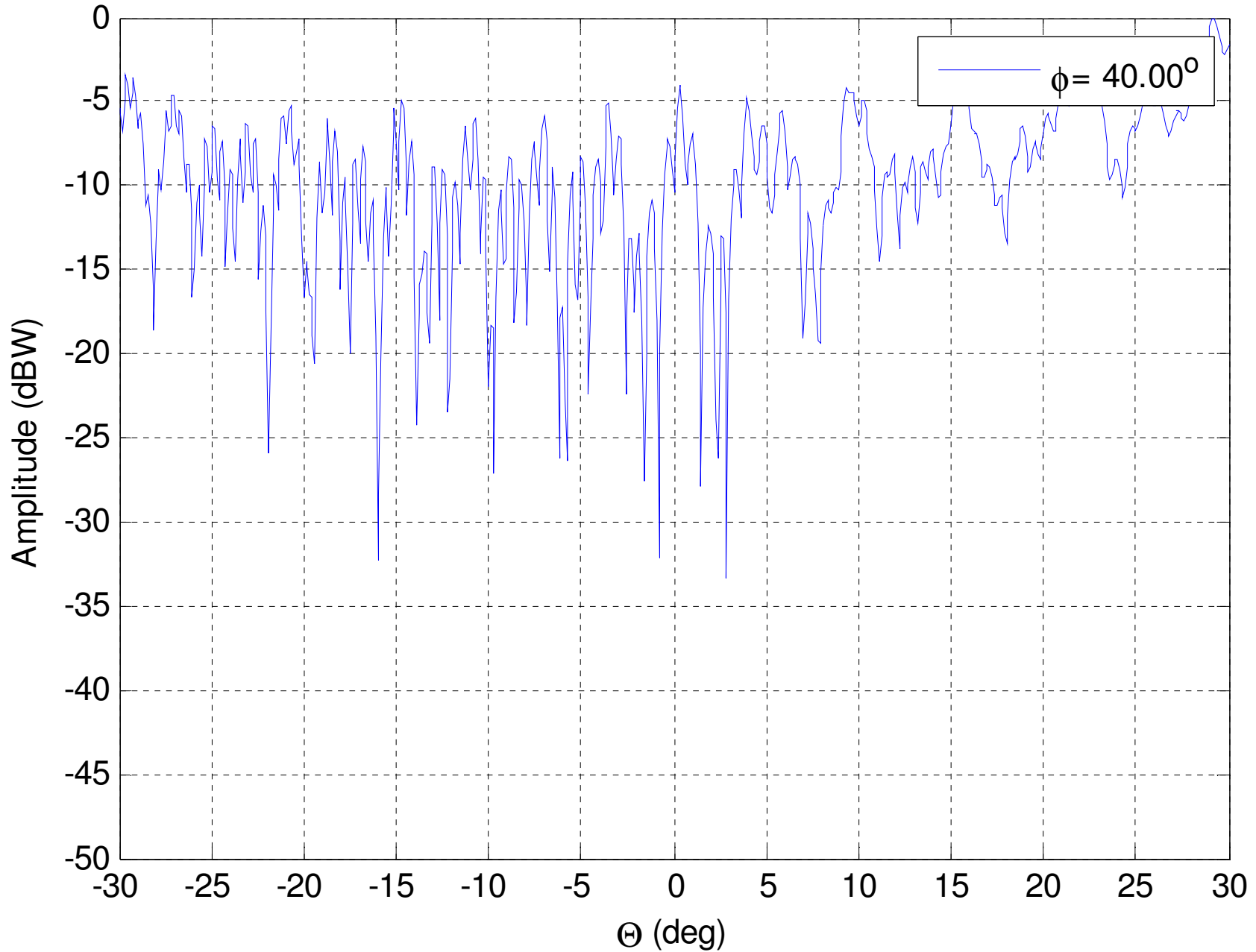
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp-30.cut, Peak: 0.77 dBW, Date: 06-Dec-2011



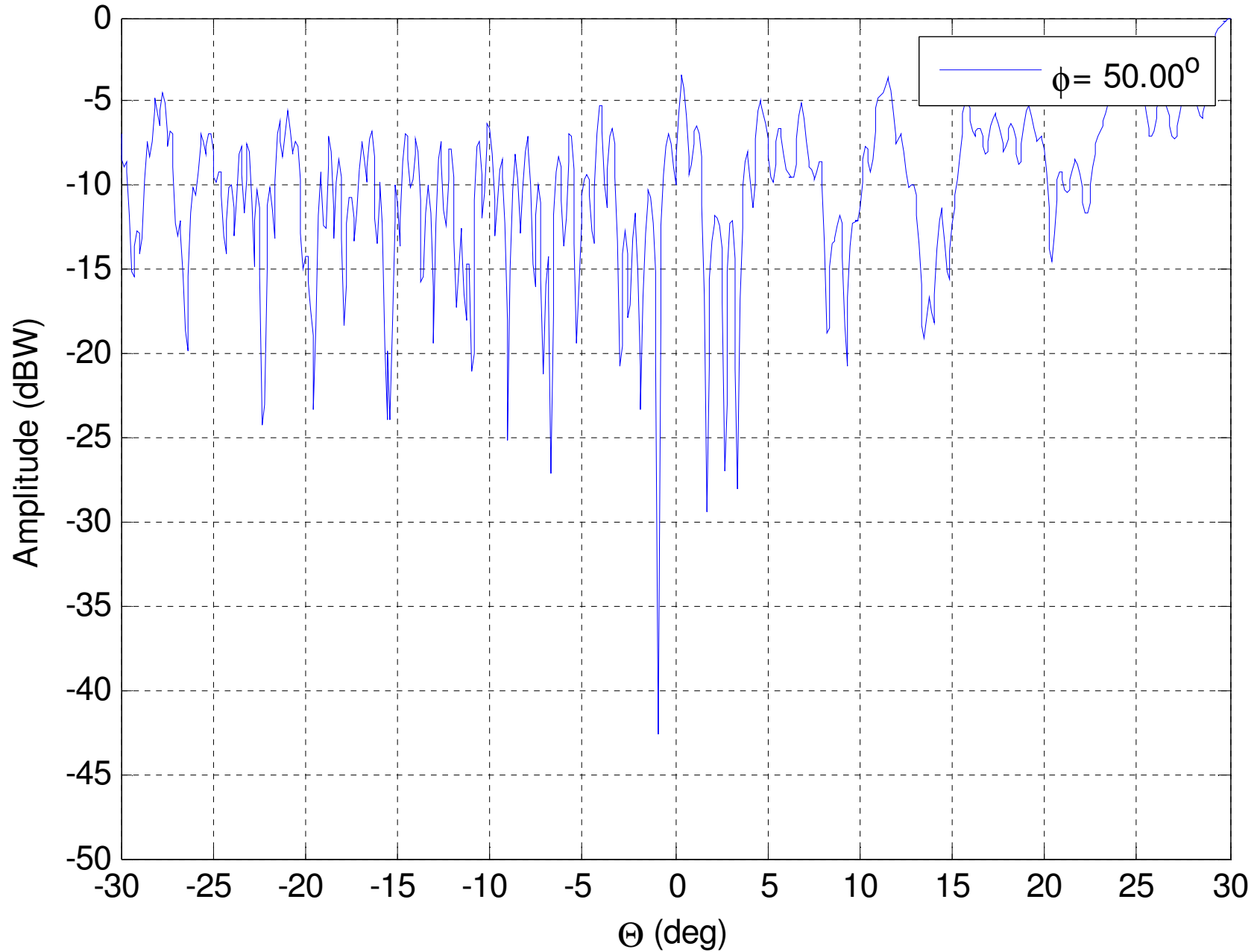
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp-40.cut, Peak: 3.33 dBW, Date: 06-Dec-2011



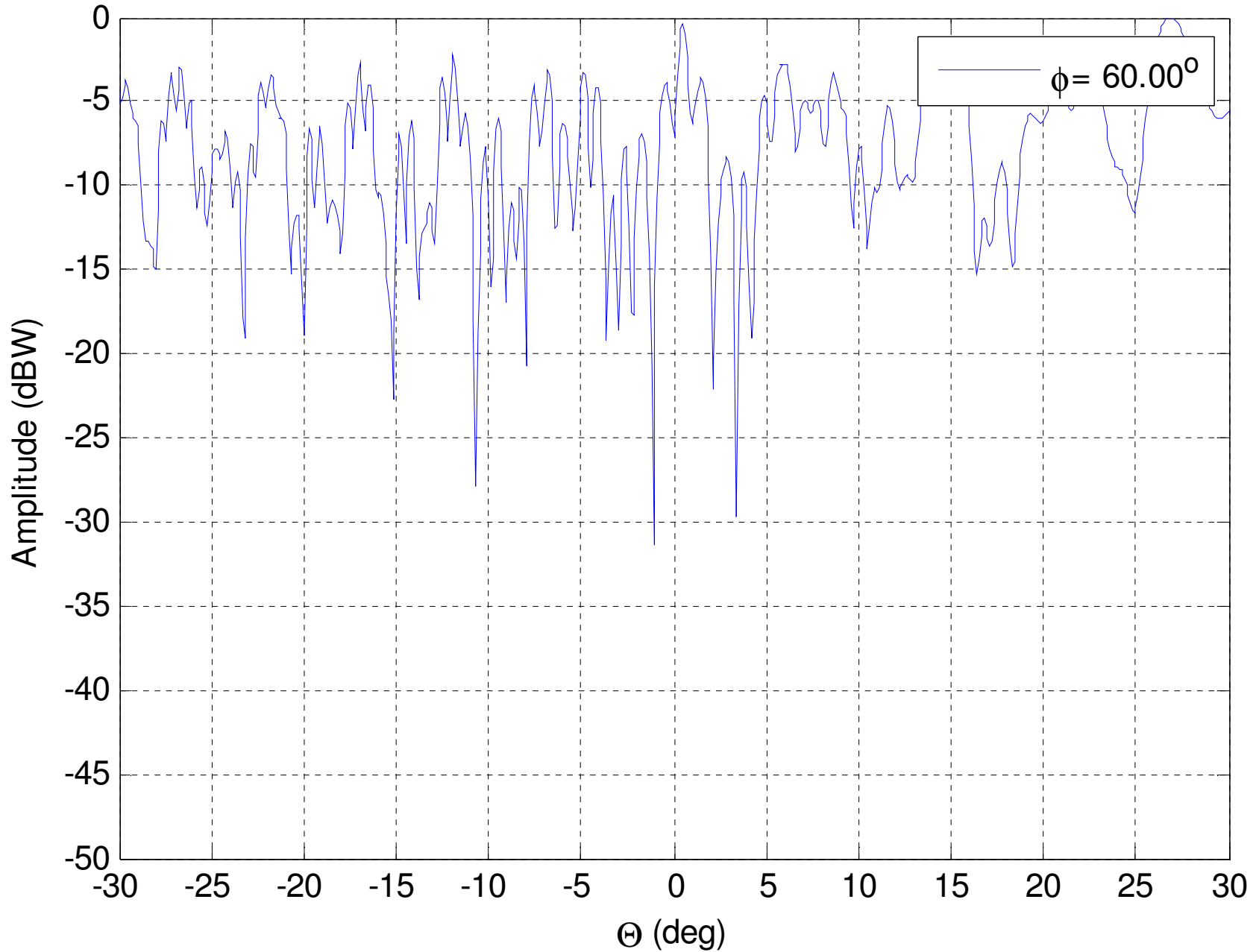
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp-50.cut, Peak: 2.88 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

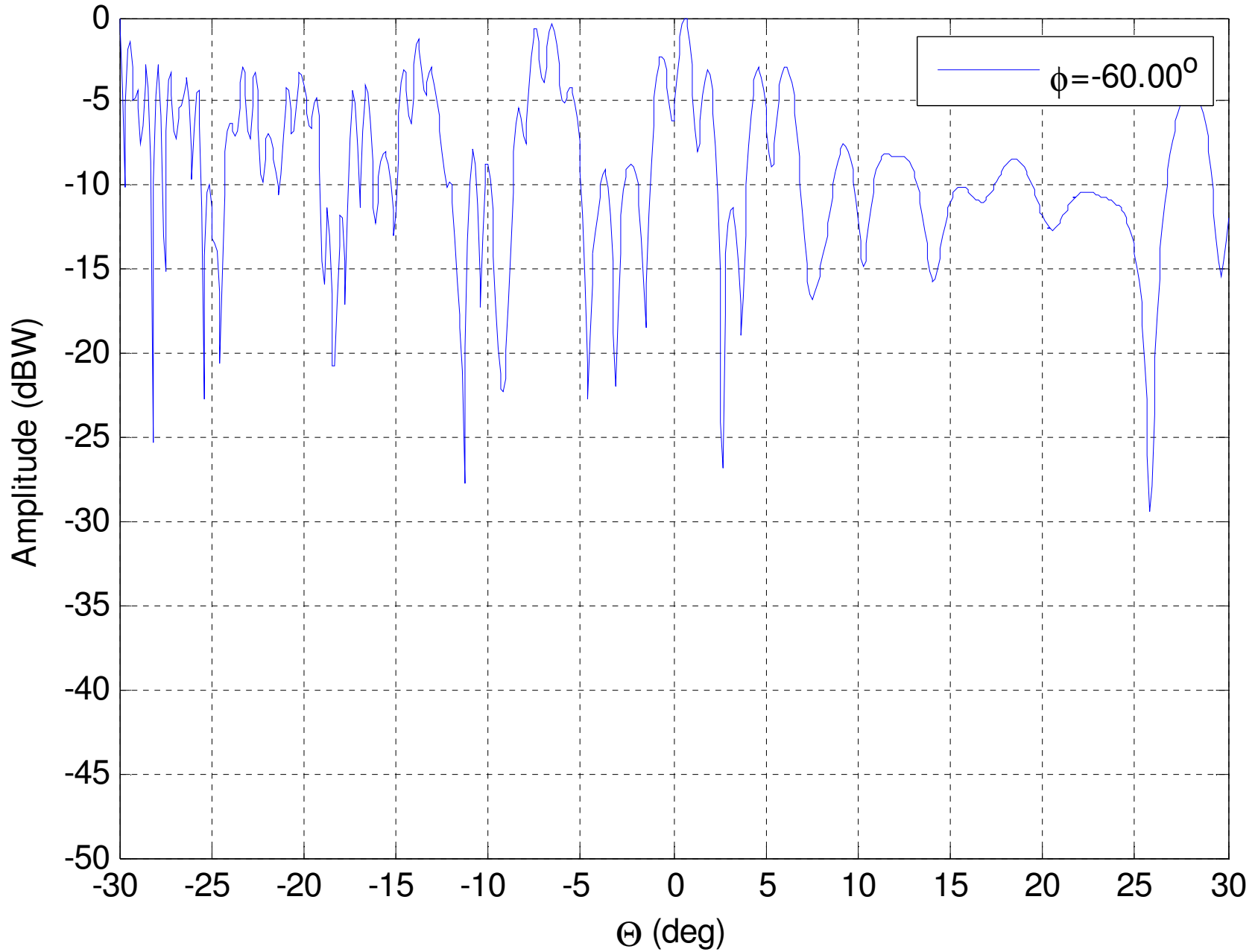
Input file: tx-17.5-rhcp-60.cut, Peak: -0.06 dBW, Date: 06-Dec-2011



LHCP at 17.5 GHz

# Normalized pattern cuts - farfield

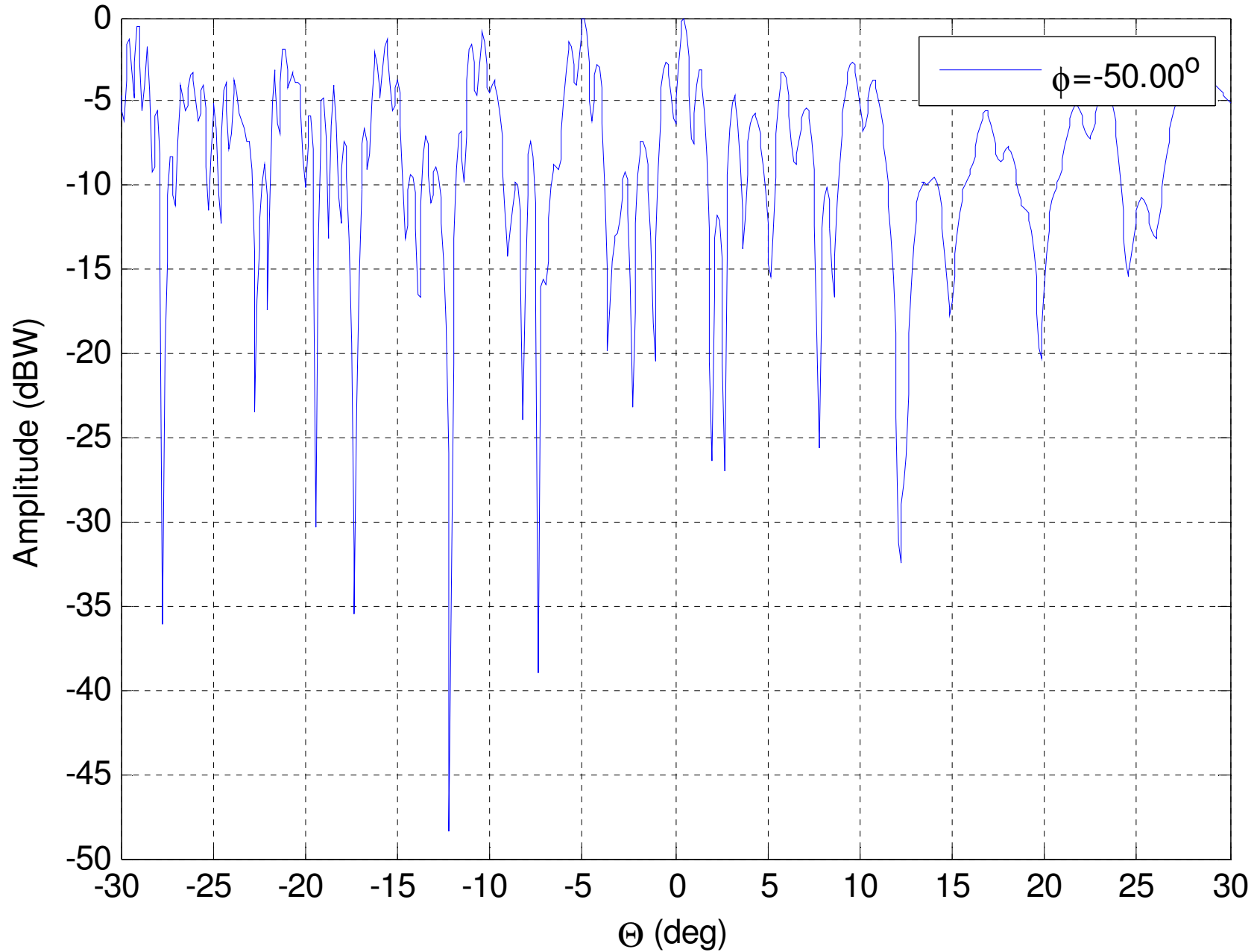
Input file: tx-17.5-lhcp--60.cut, Peak: -1.33 dBW, Date: 06-Dec-2011





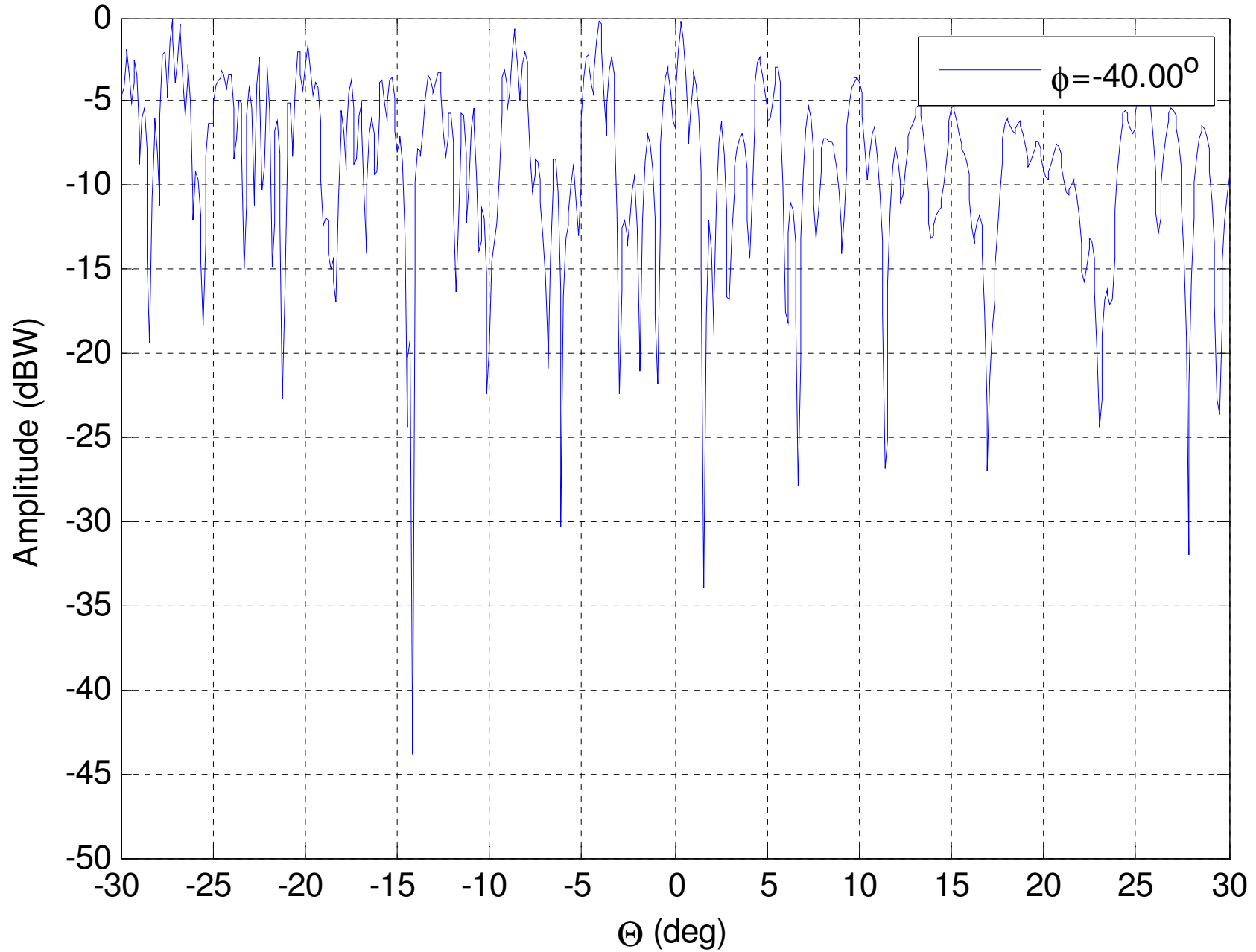
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp--50.cut, Peak: -1.19 dBW, Date: 06-Dec-2011



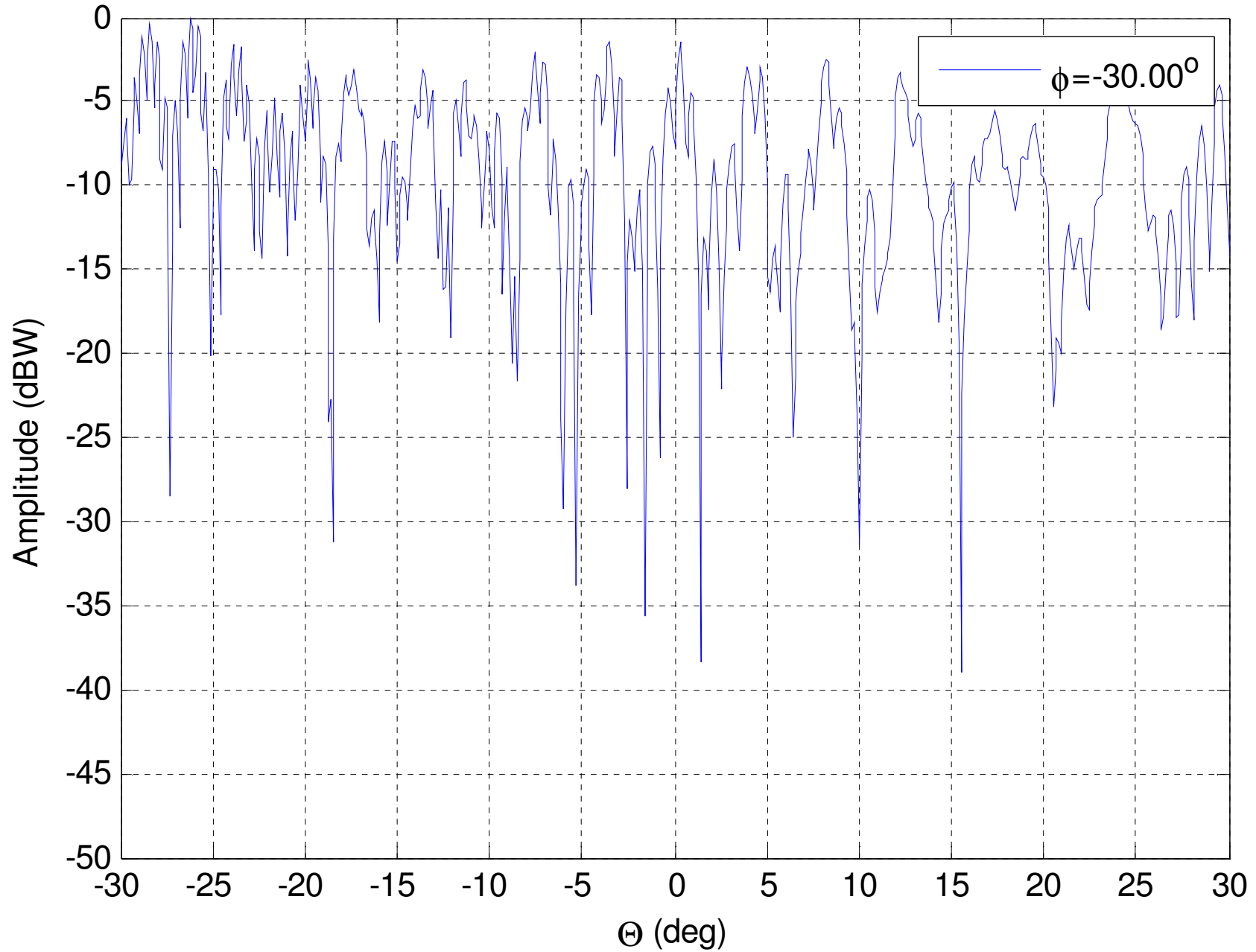
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp--40.cut, Peak: -0.89 dBW, Date: 06-Dec-2011



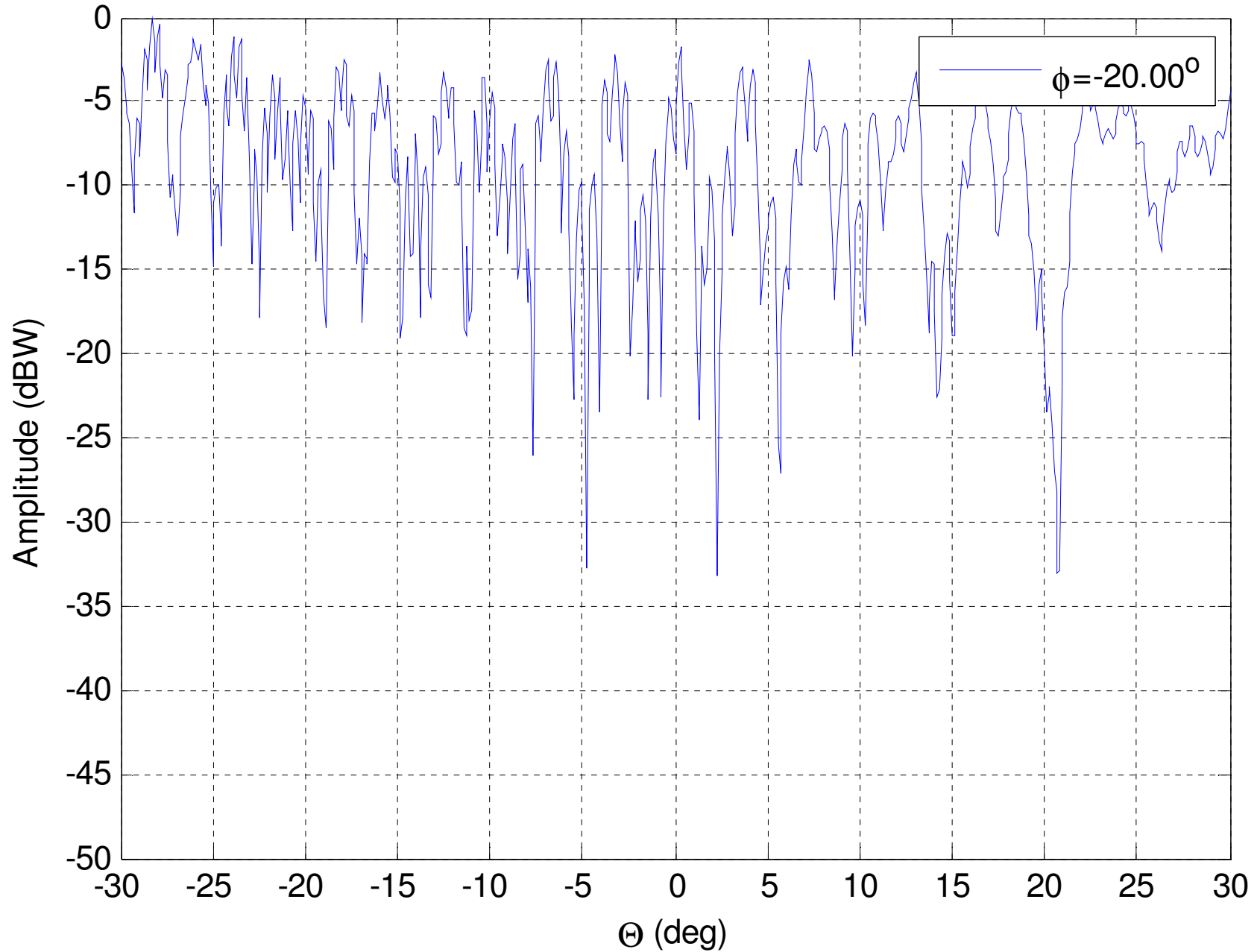
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp--30.cut, Peak: 0.22 dBW, Date: 06-Dec-2011



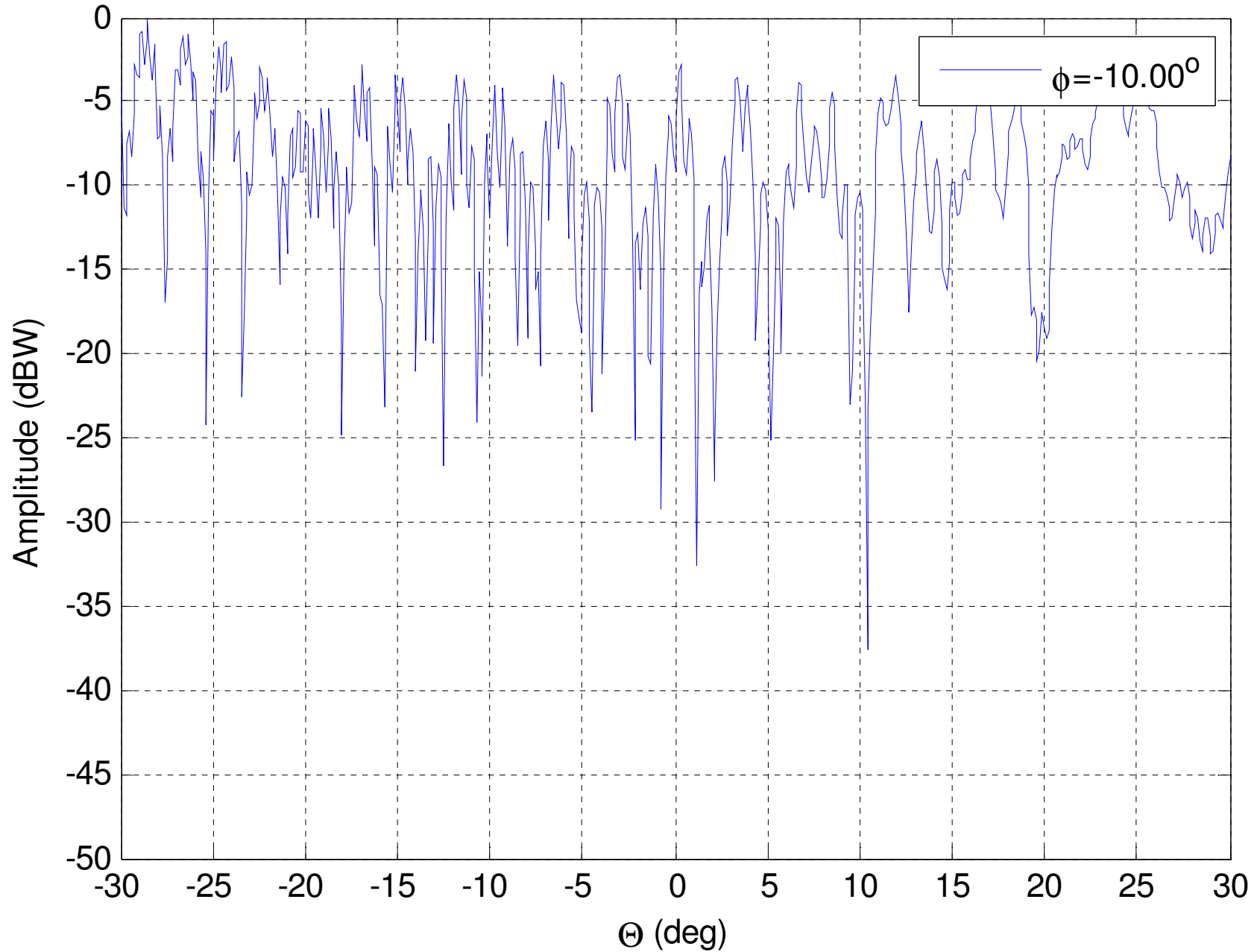
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp--20.cut, Peak: 0.69 dBW, Date: 06-Dec-2011



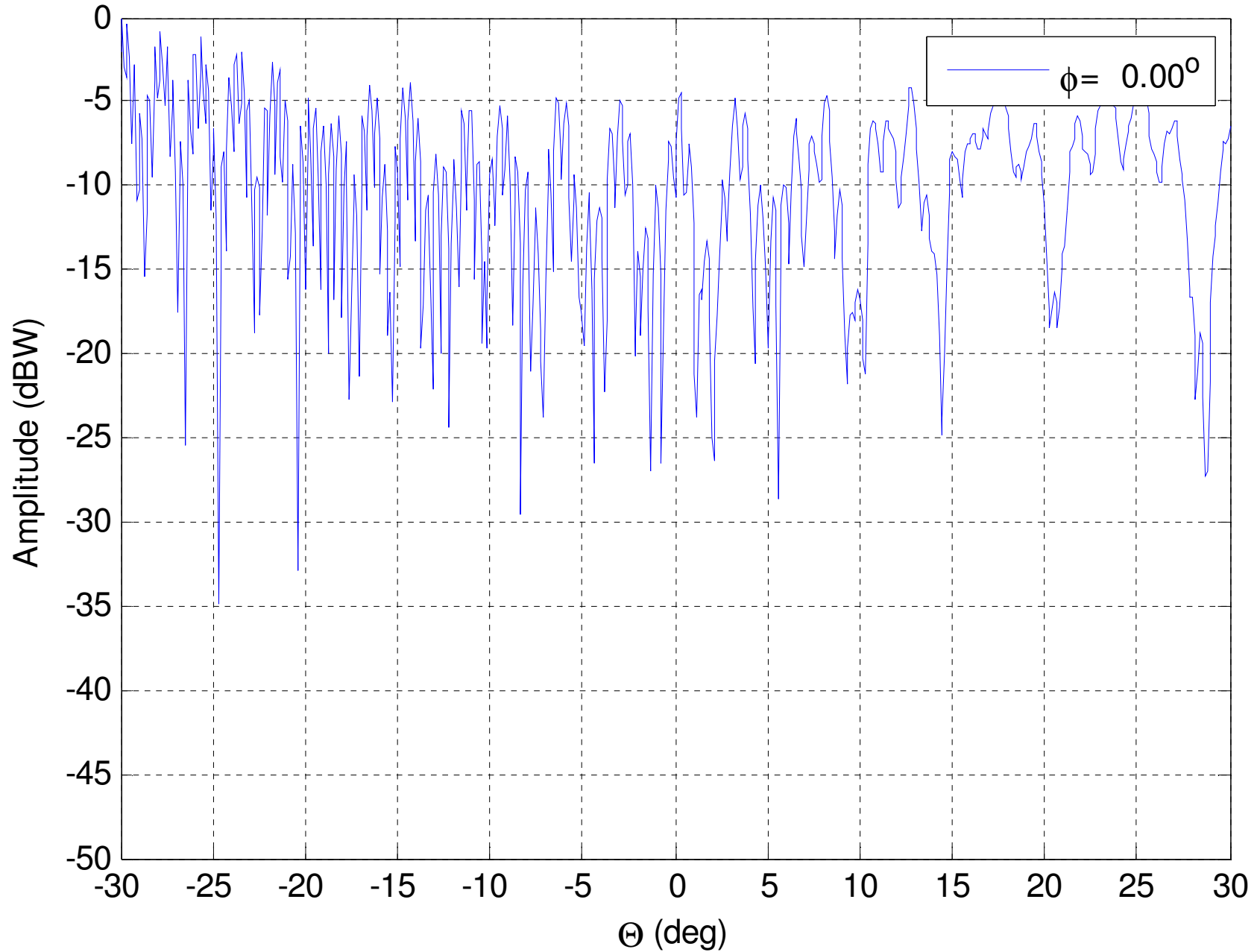
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp--10.cut, Peak: 1.68 dBW, Date: 06-Dec-2011



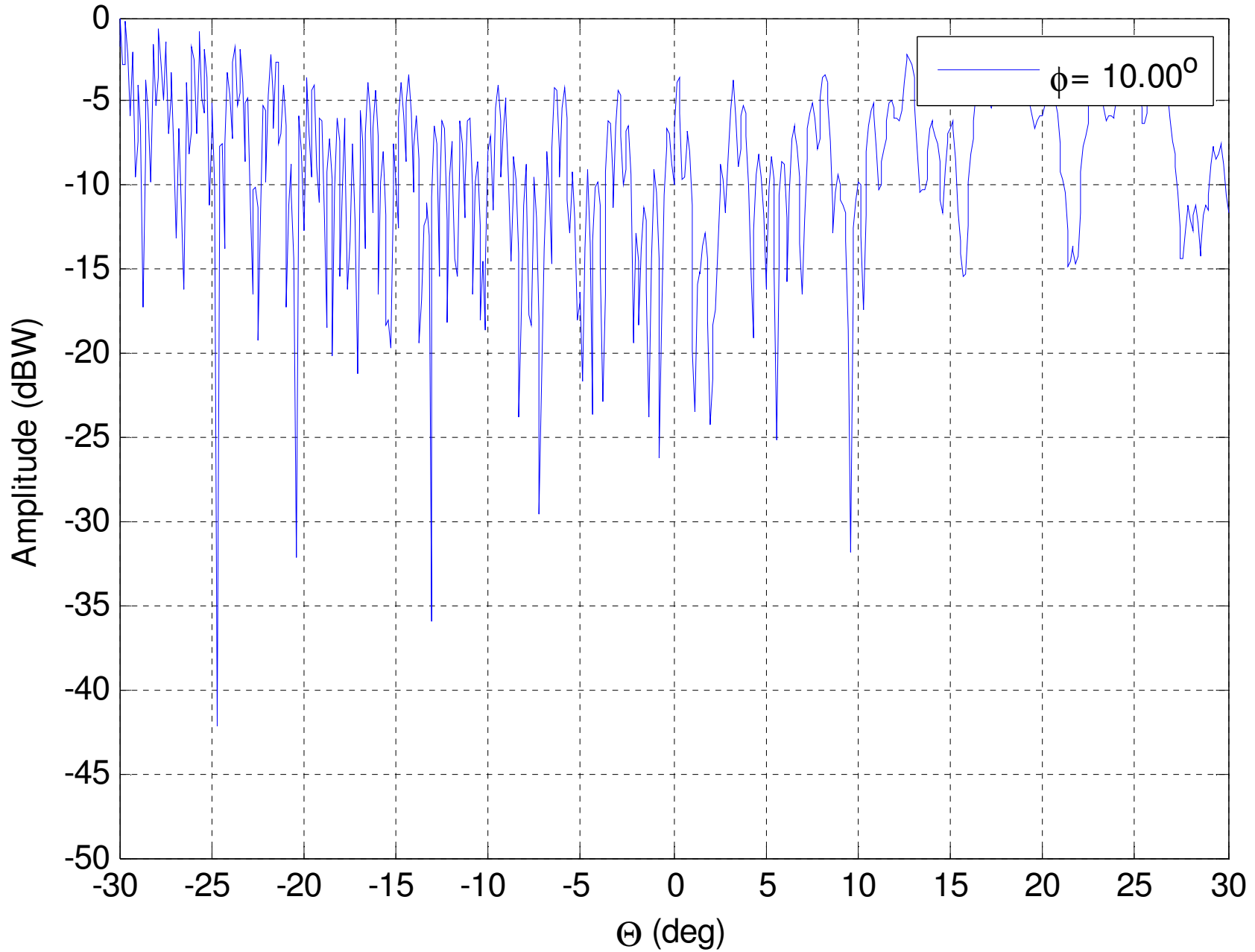
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp-0.cut, Peak: 3.21 dBW, Date: 06-Dec-2011



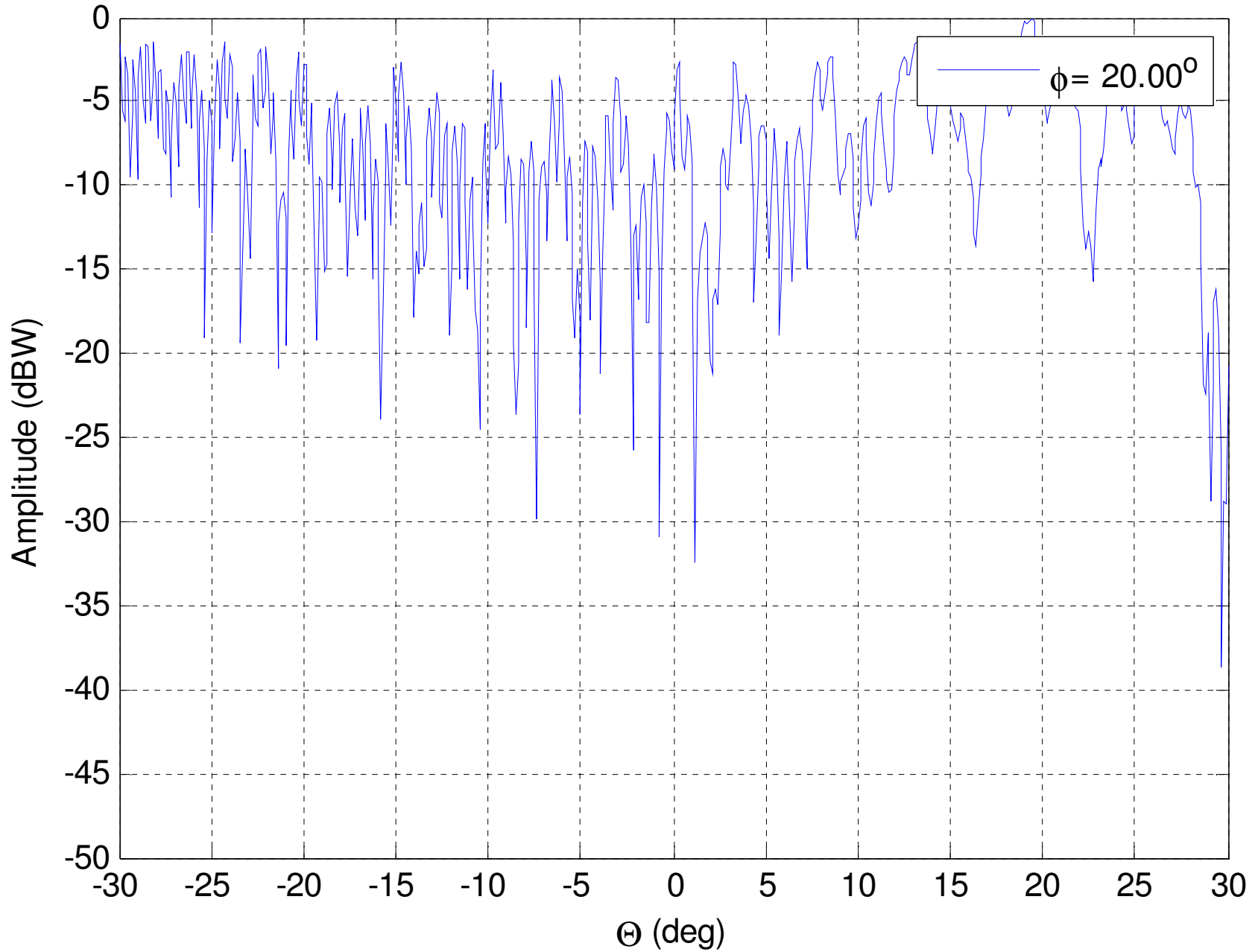
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp-10.cut, Peak: 2.41 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

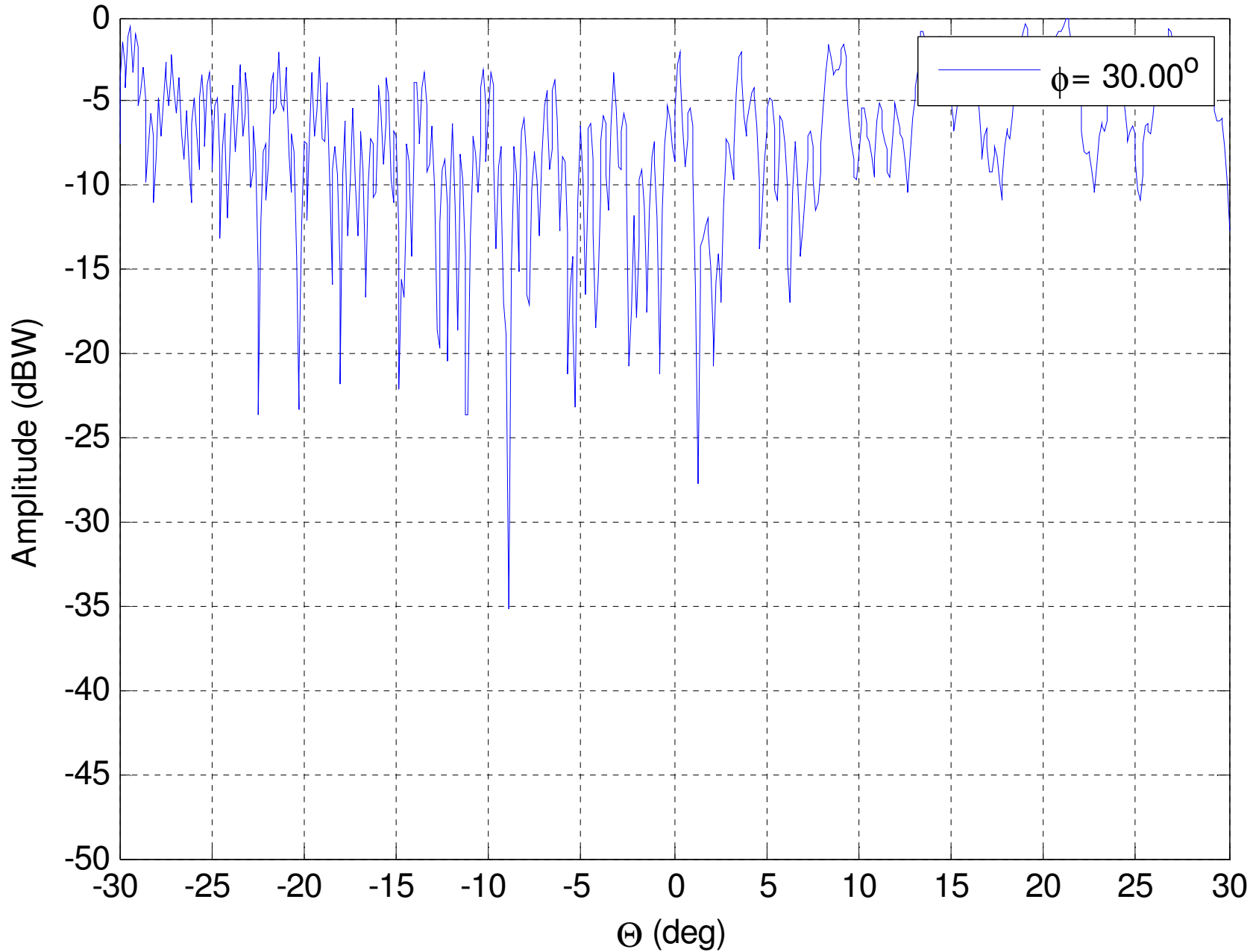
Input file: tx-17.5-lhcp-20.cut, Peak: 1.53 dBW, Date: 06-Dec-2011





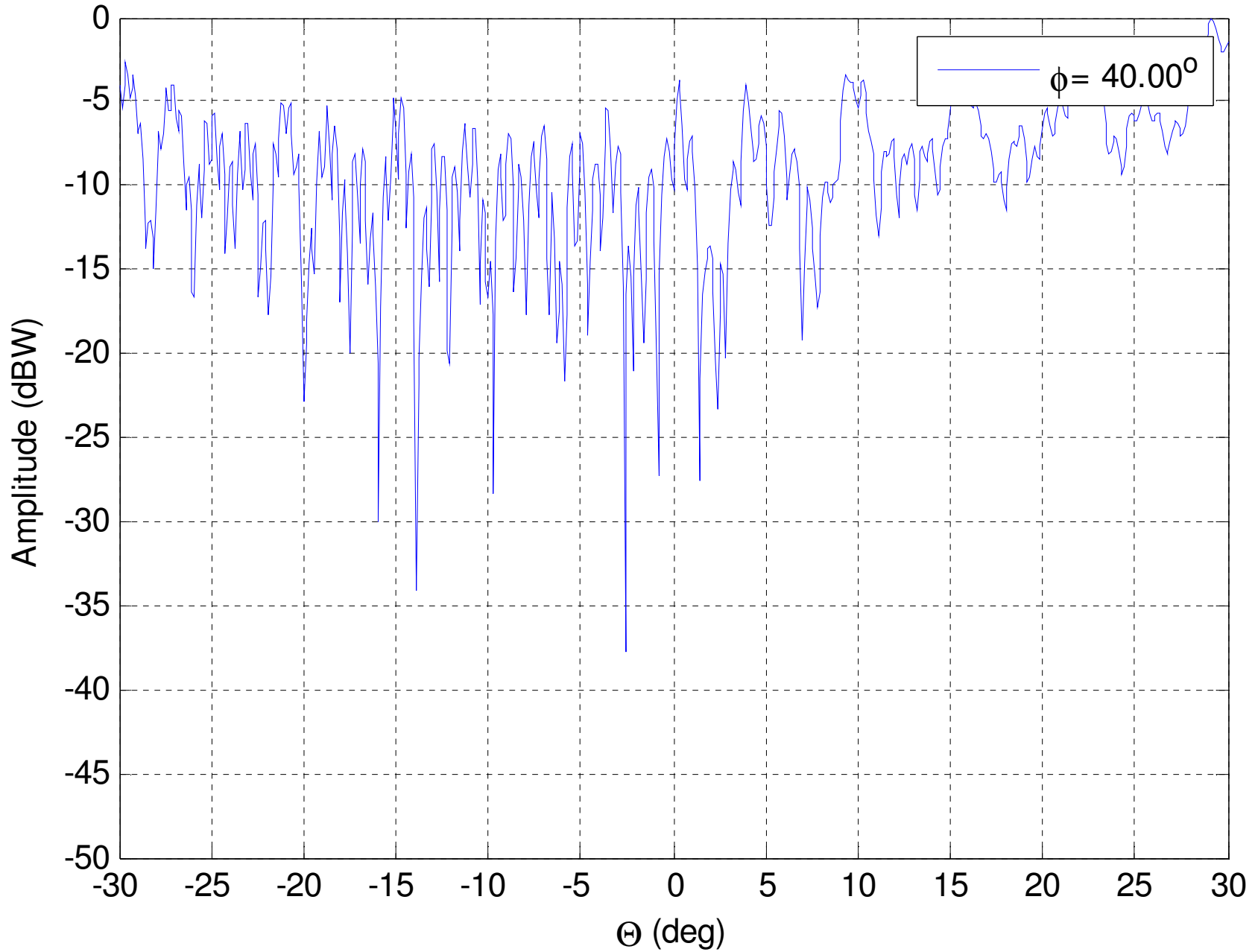
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp-30.cut, Peak: 1.06 dBW, Date: 06-Dec-2011



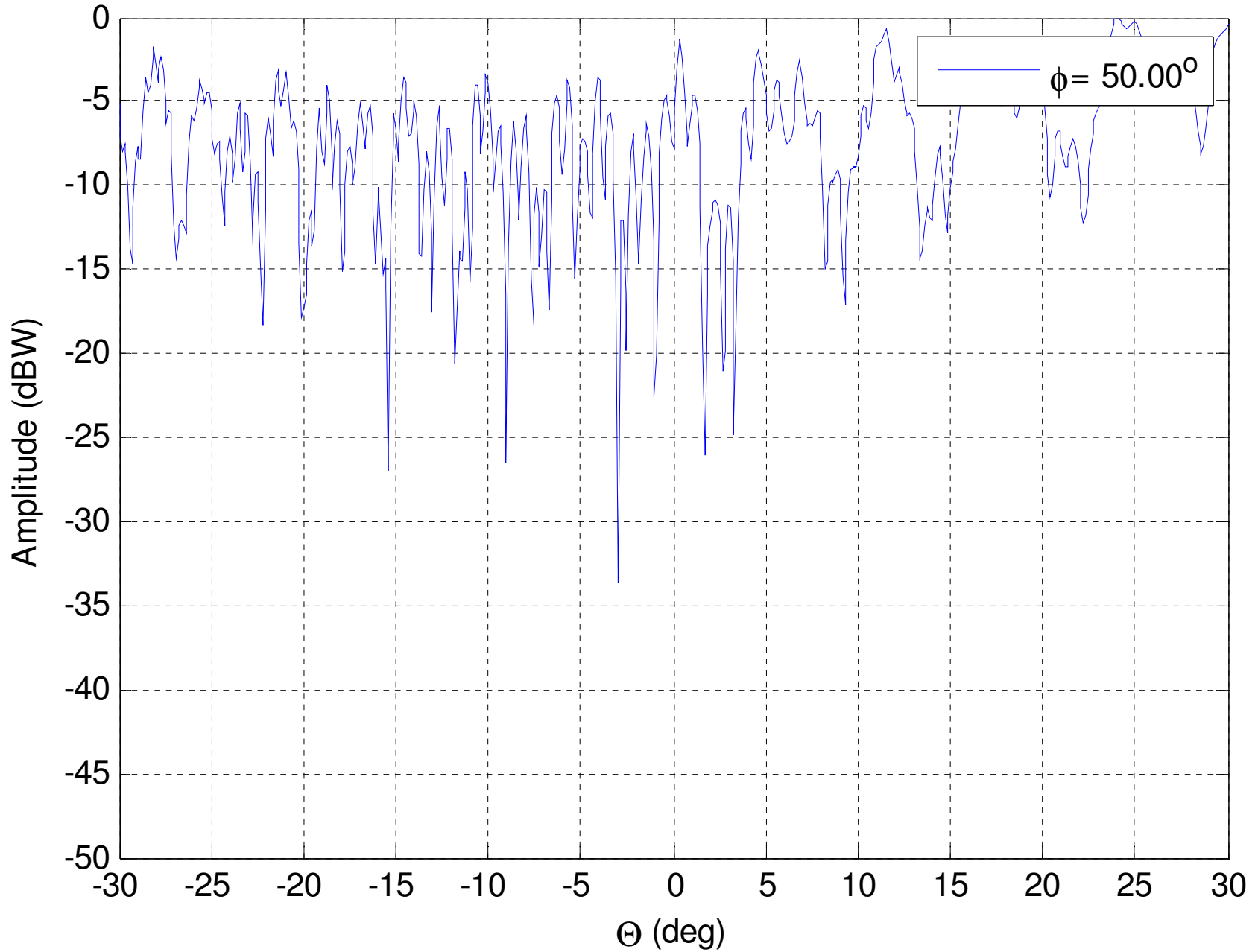
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp-40.cut, Peak: 2.78 dBW, Date: 06-Dec-2011



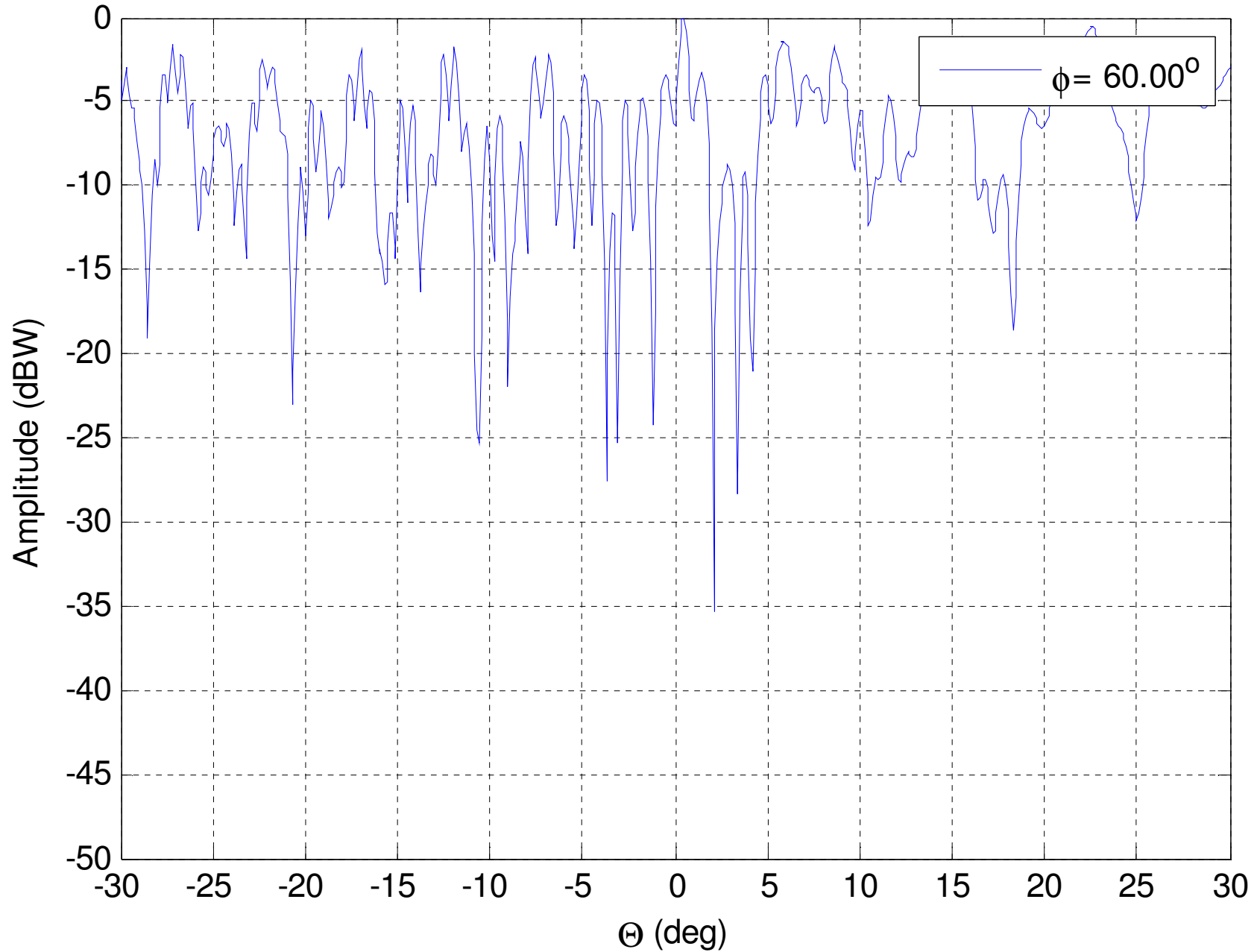
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp-50.cut, Peak: 0.28 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

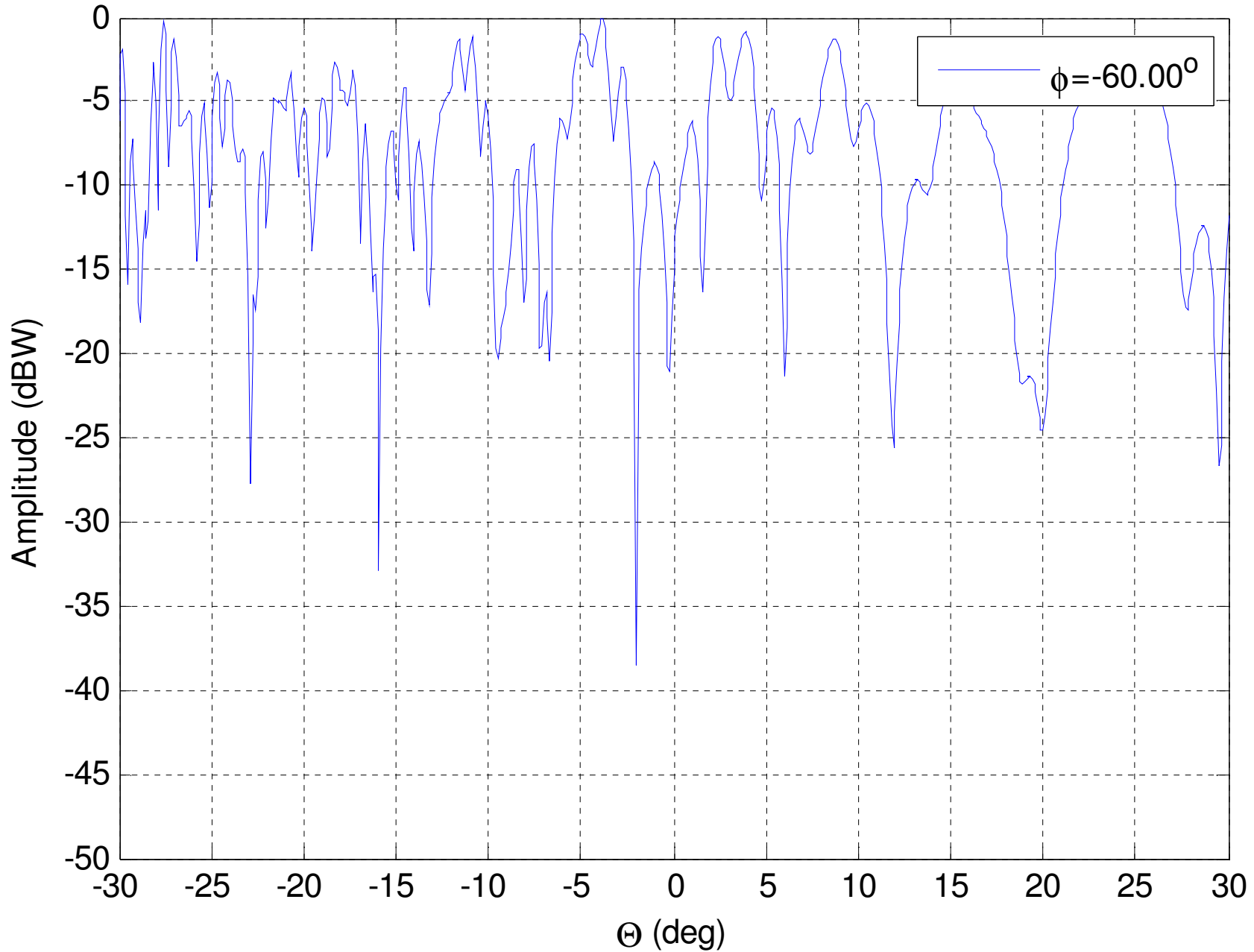
Input file: tx-17.5-lhcp-60.cut, Peak: -0.99 dBW, Date: 06-Dec-2011



**RHCP at 17.7 GHz**

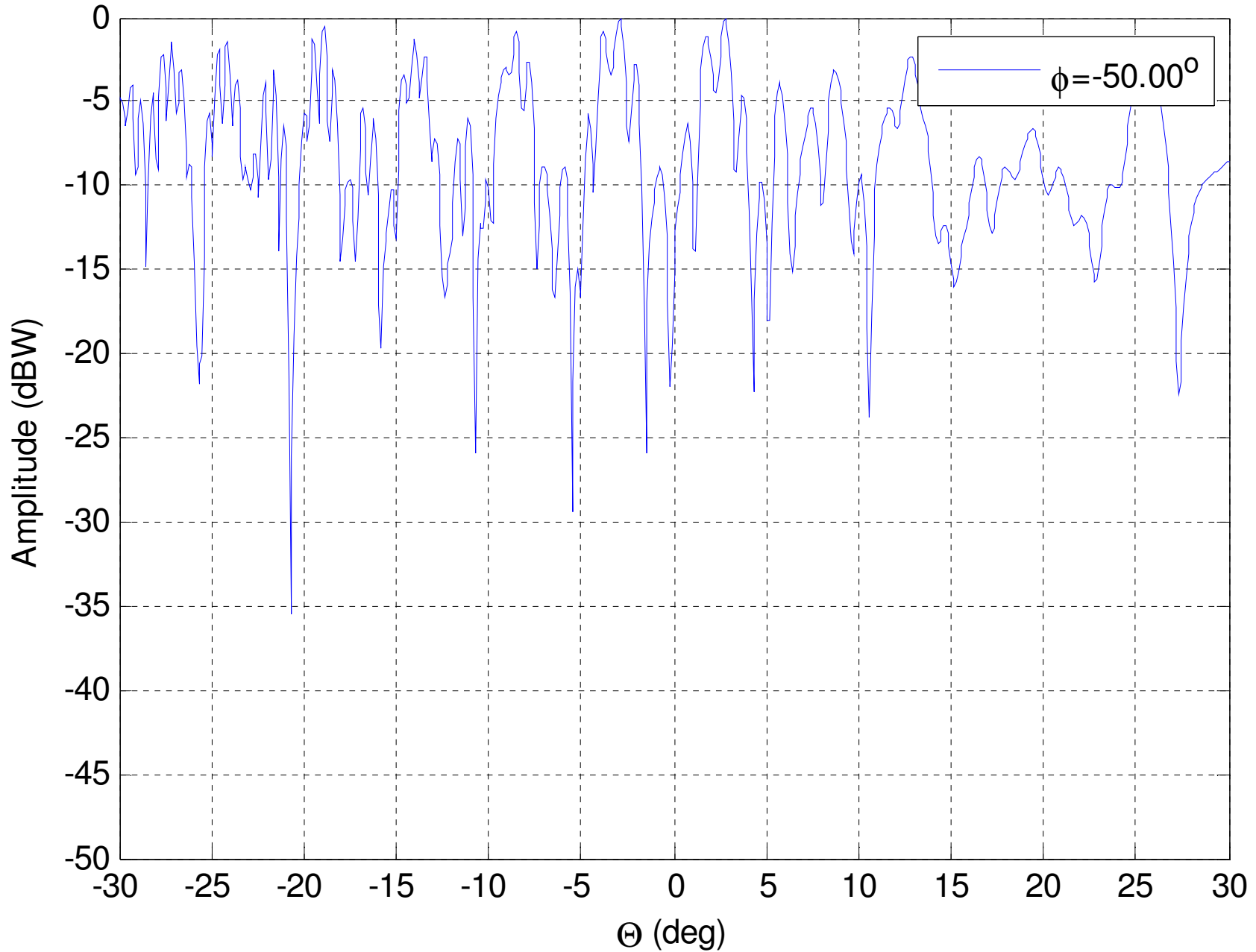
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp--60.cut, Peak: -1.96 dBW, Date: 06-Dec-2011



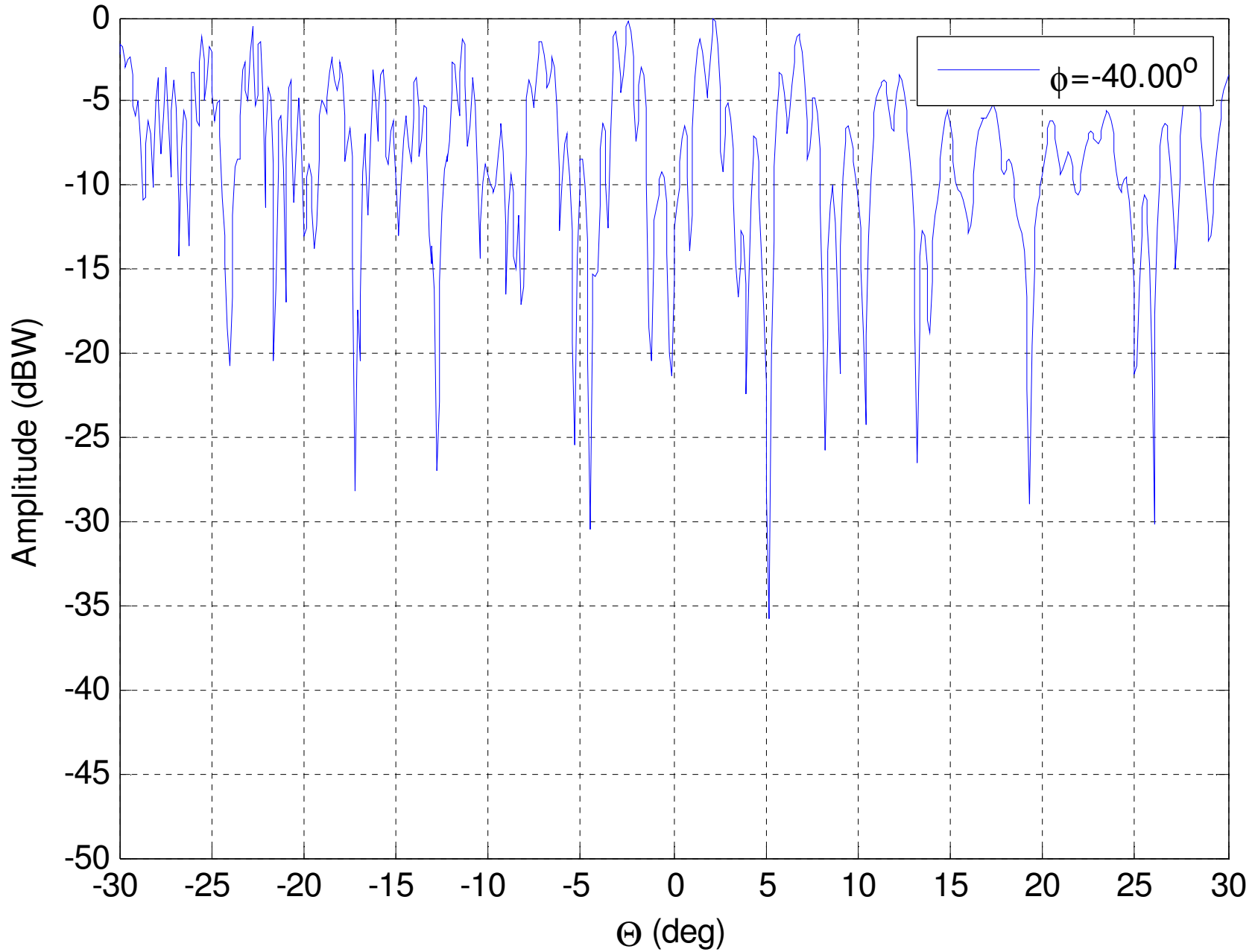
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp--50.cut, Peak: -1.74 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

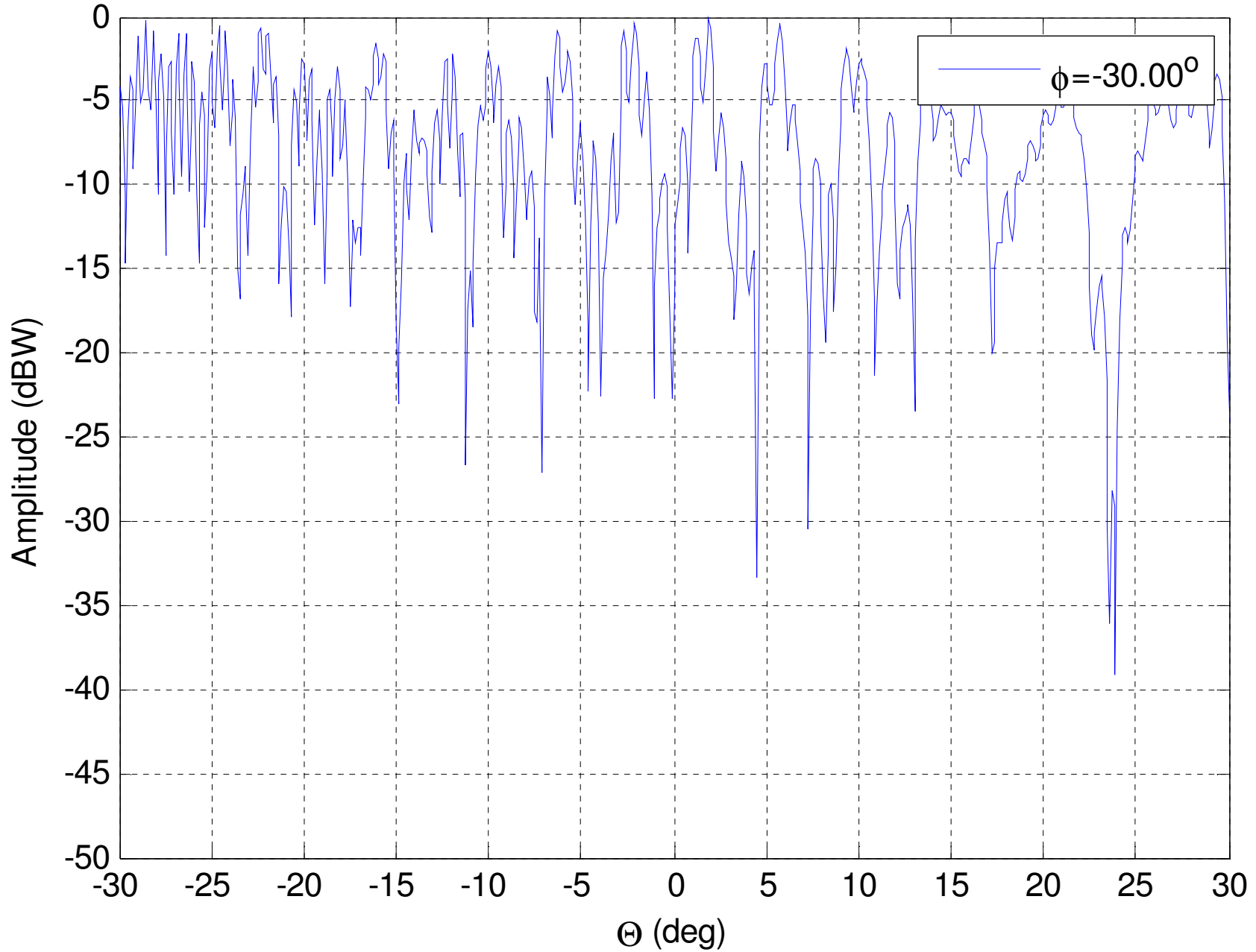
Input file: tx-17.7-rhcp--40.cut, Peak: -1.42 dBW, Date: 06-Dec-2011





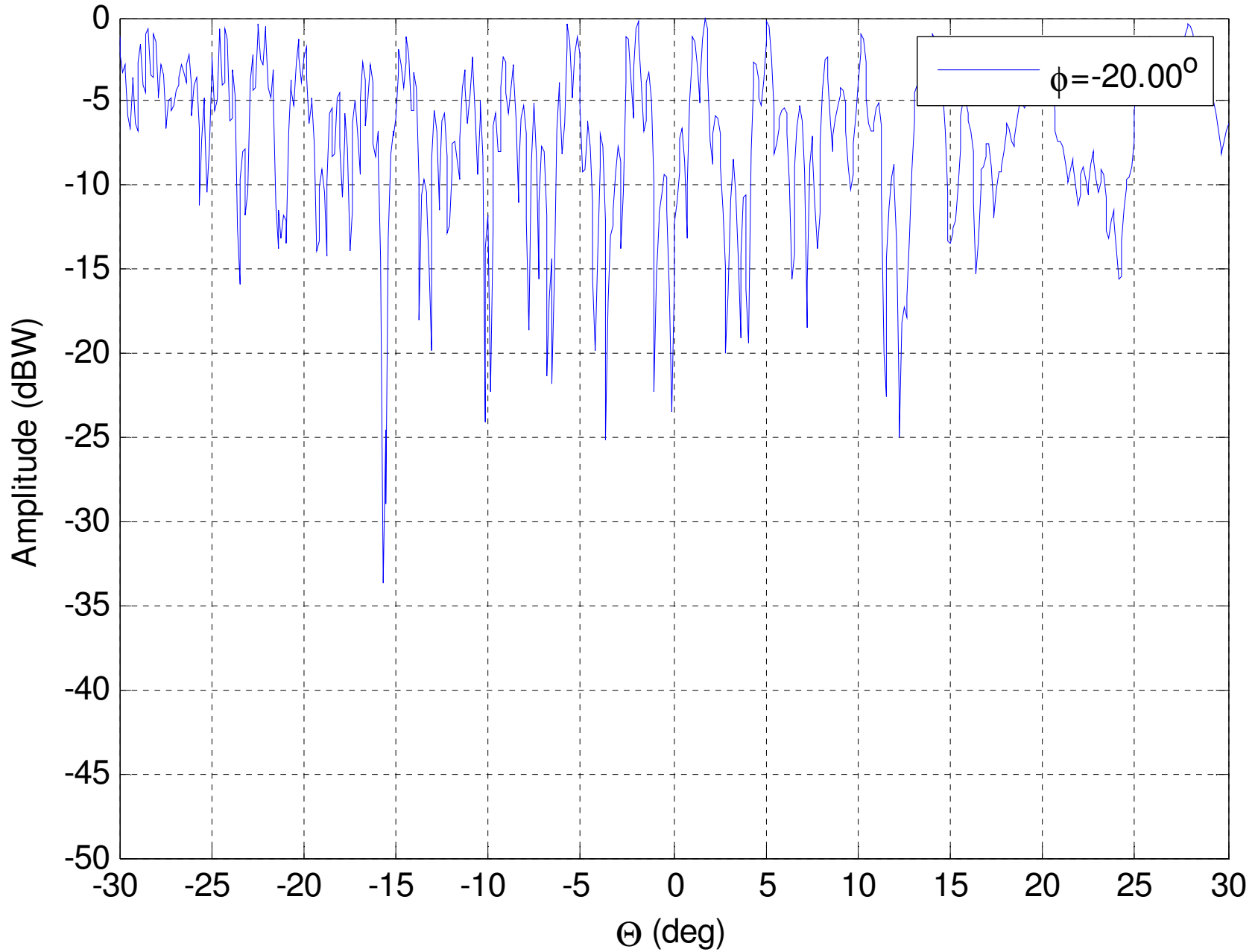
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp--30.cut, Peak: -1.22 dBW, Date: 06-Dec-2011



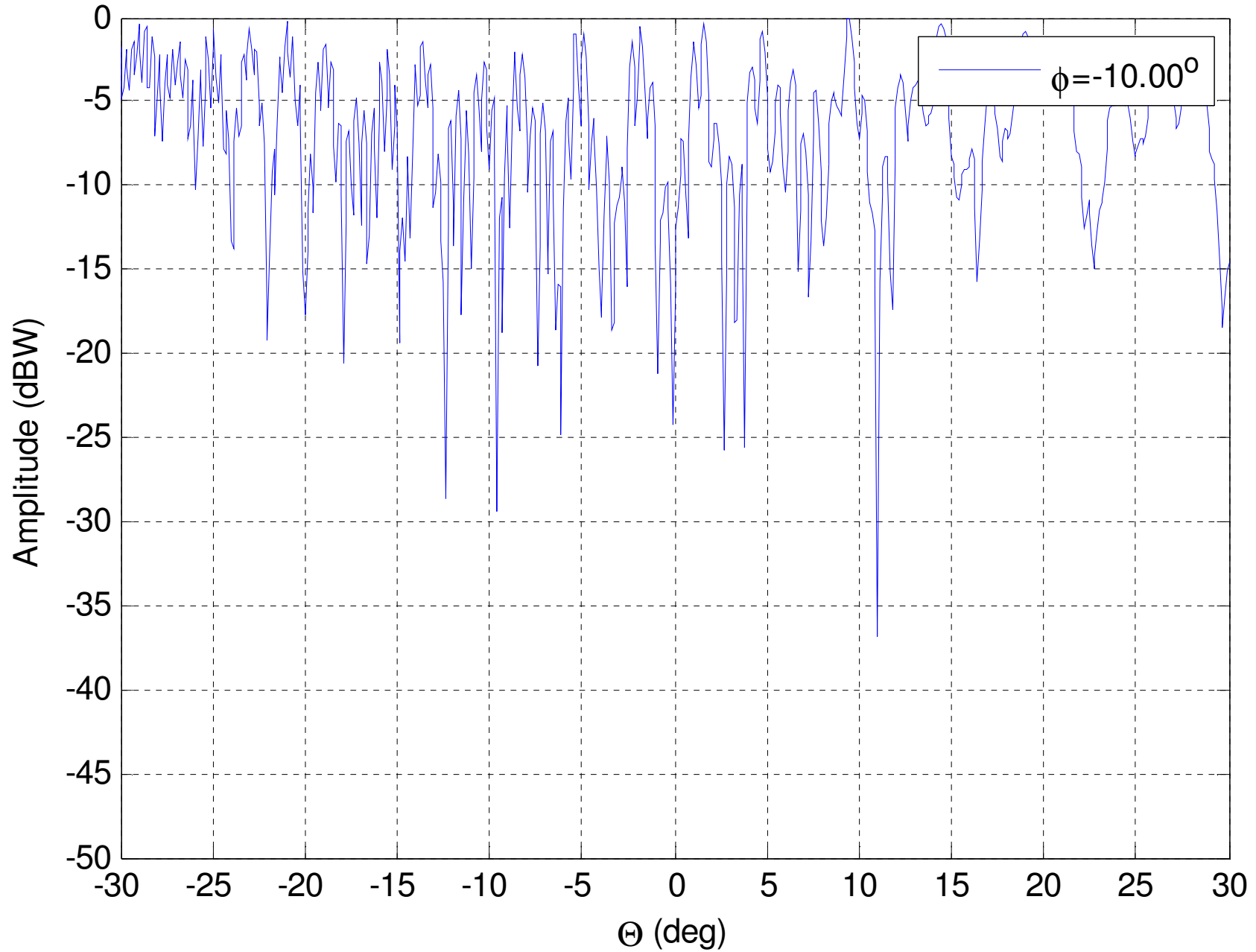
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp--20.cut, Peak: -1.17 dBW, Date: 06-Dec-2011



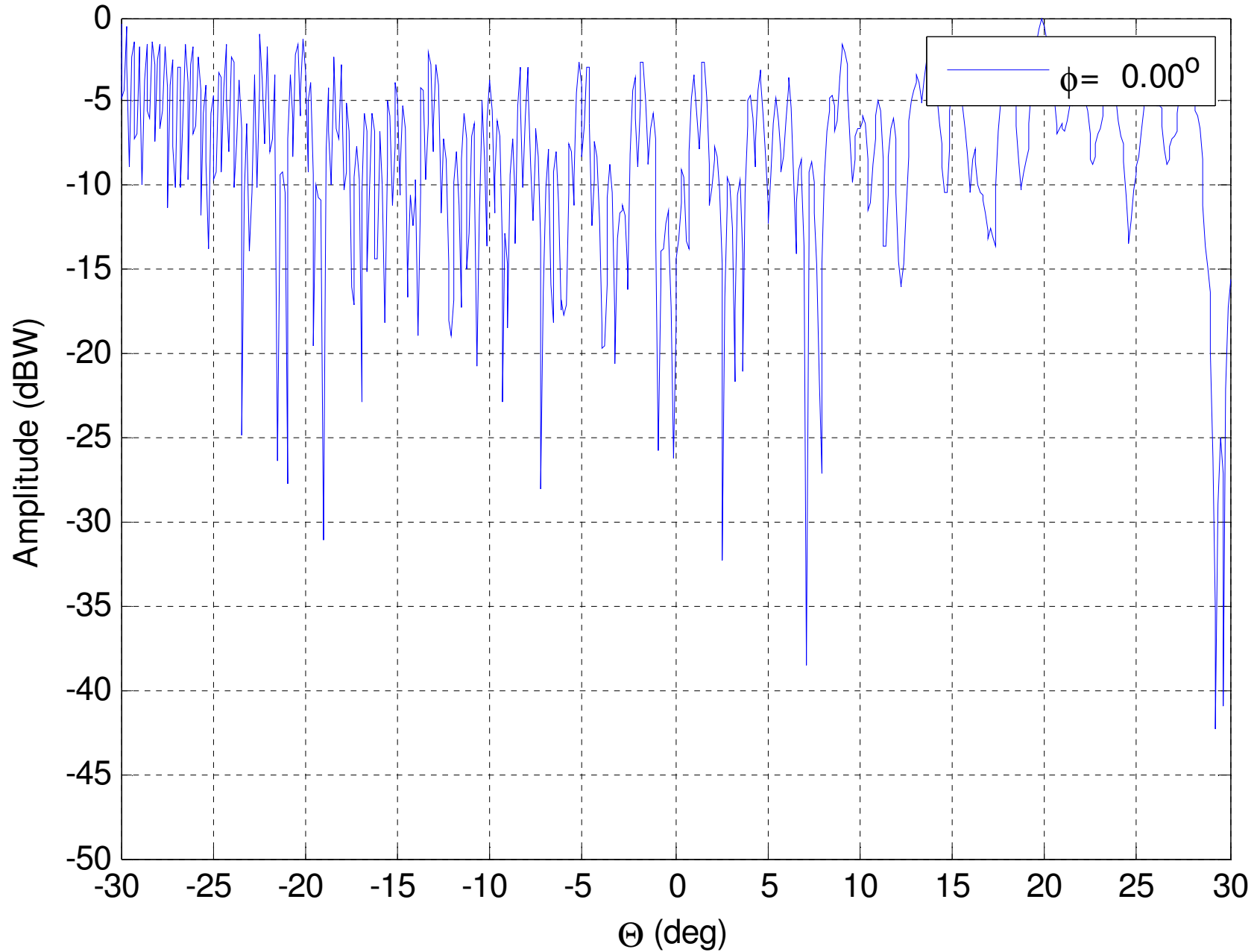
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp--10.cut, Peak: -0.71 dBW, Date: 06-Dec-2011



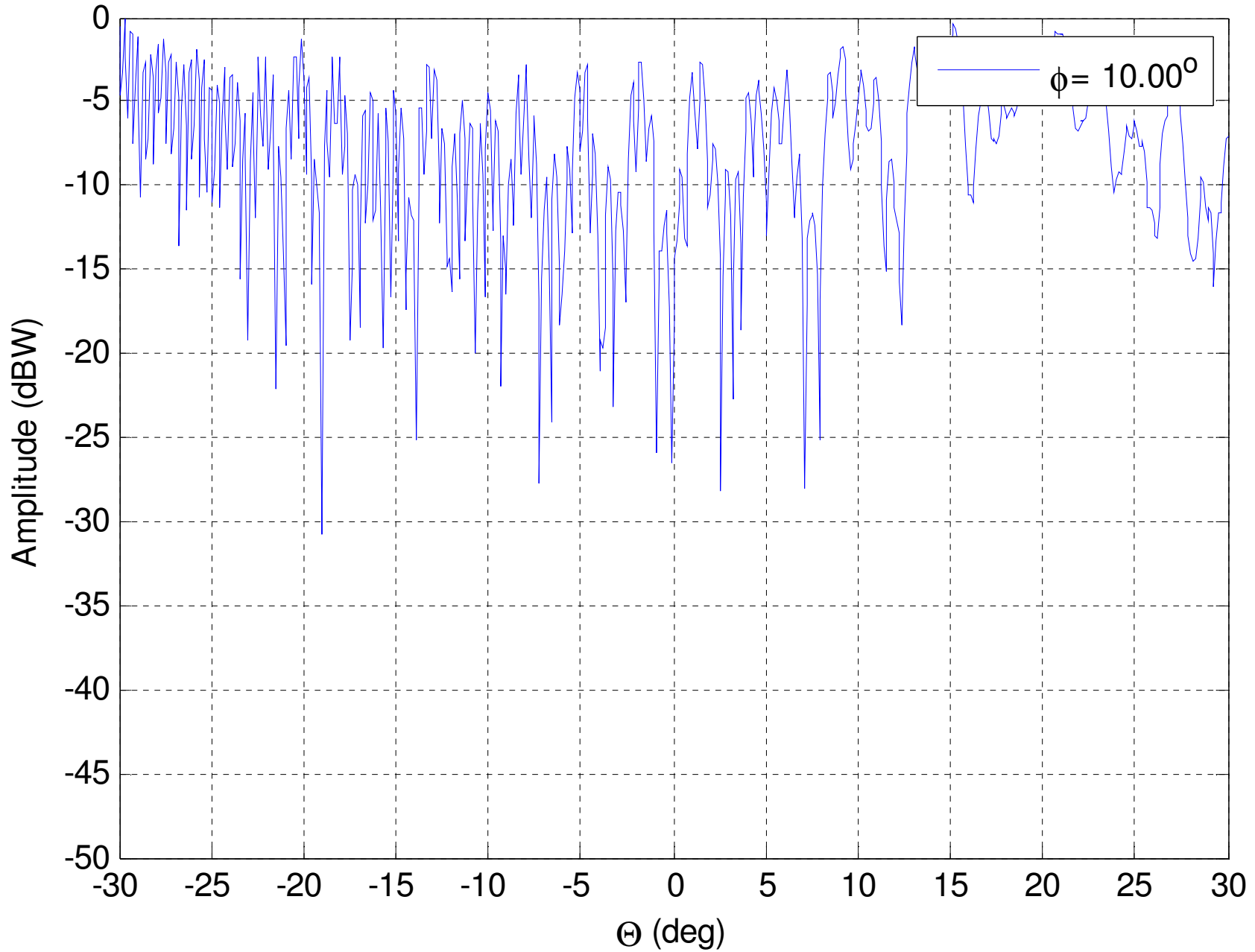
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp-0.cut, Peak: 1.18 dBW, Date: 06-Dec-2011



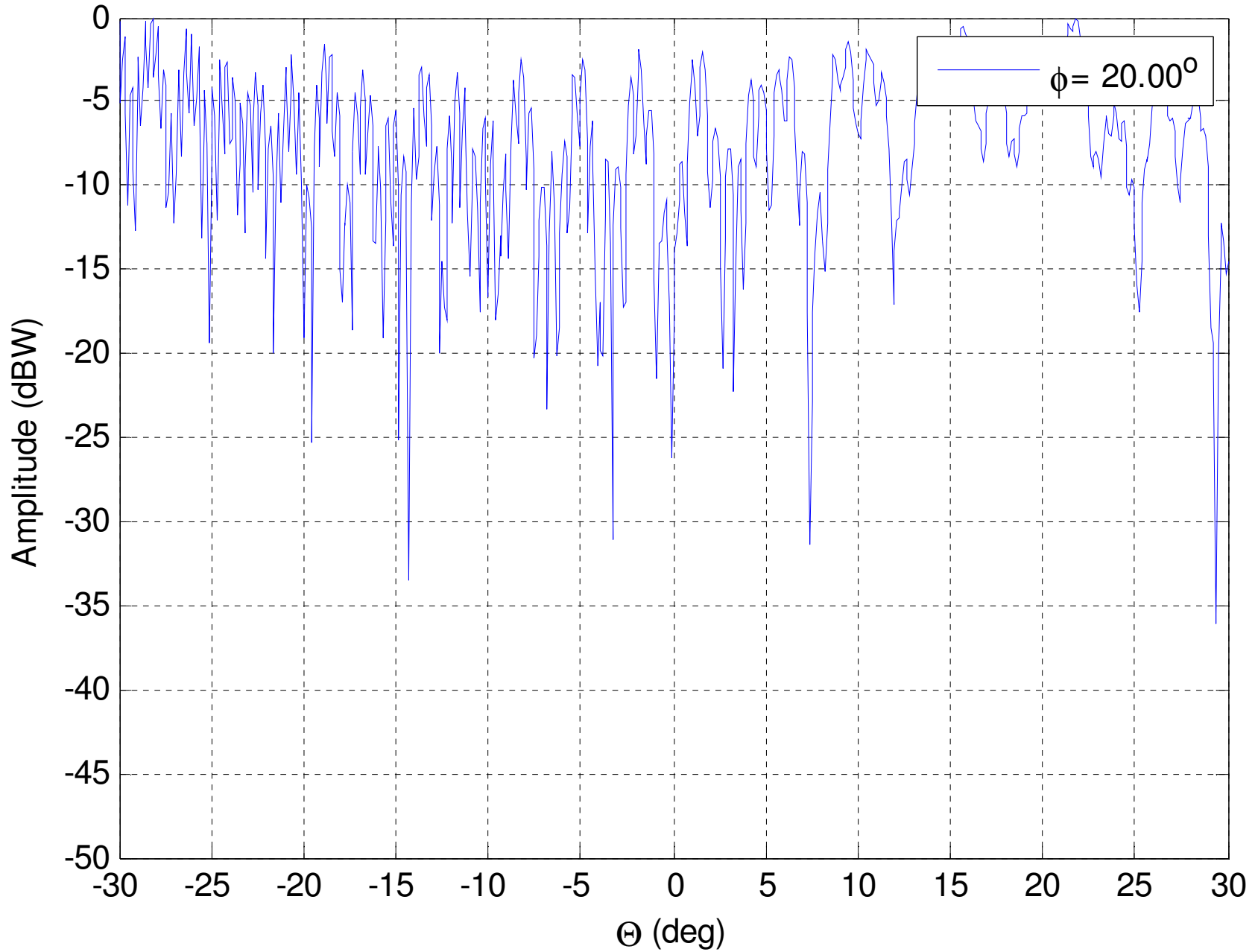
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp-10.cut, Peak: 1.21 dBW, Date: 06-Dec-2011



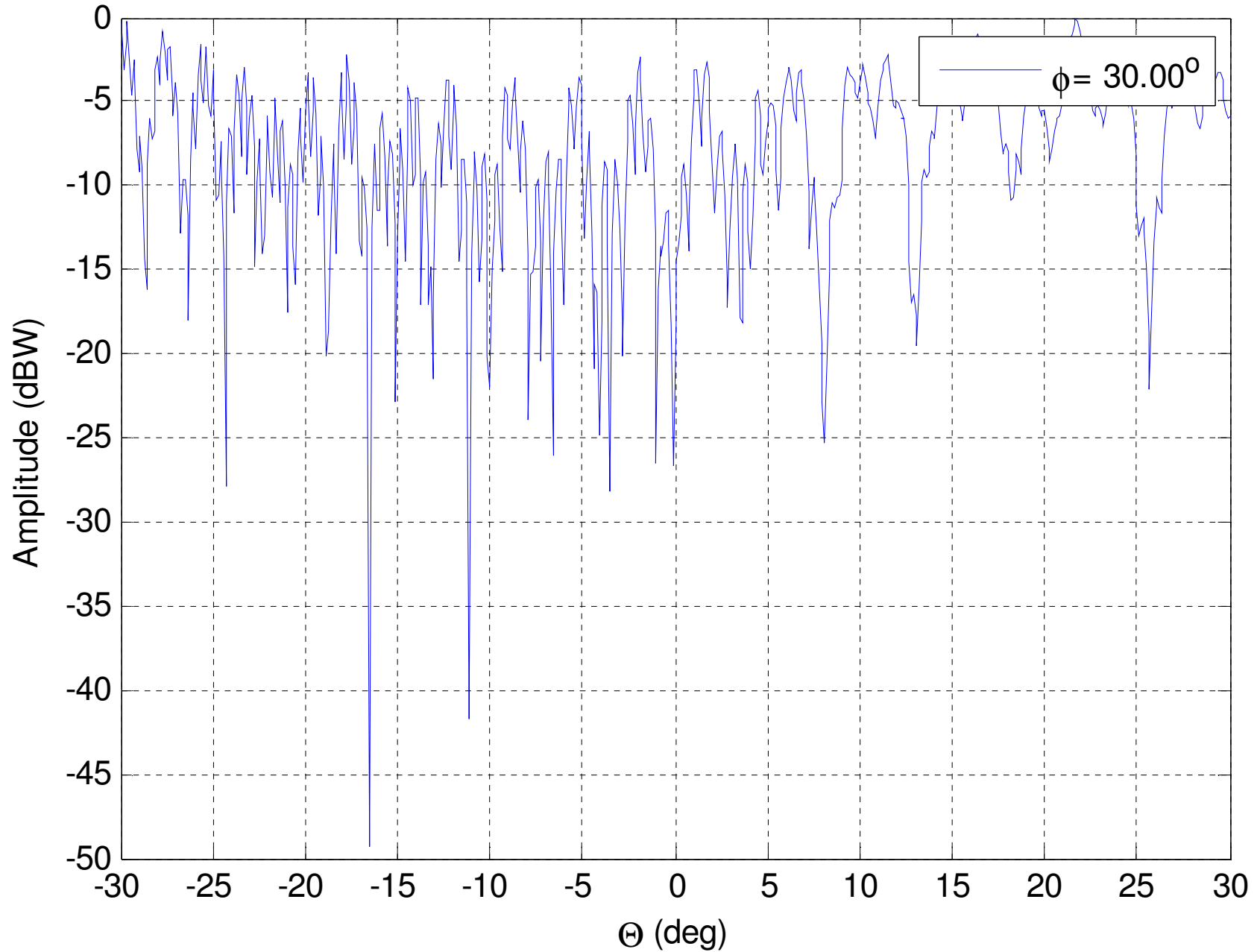
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp-20.cut, Peak: 0.71 dBW, Date: 06-Dec-2011



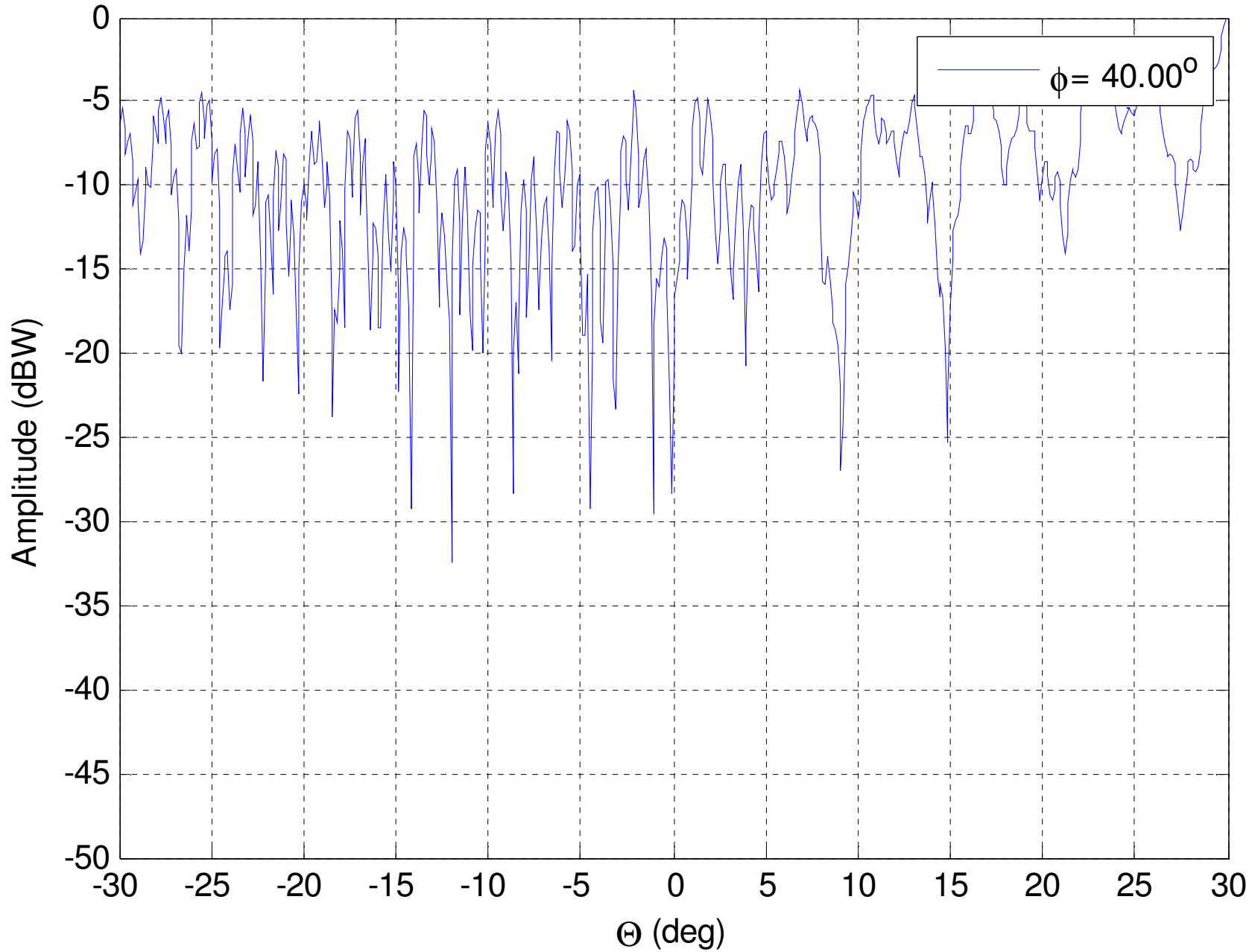
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp-30.cut, Peak: 1.16 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

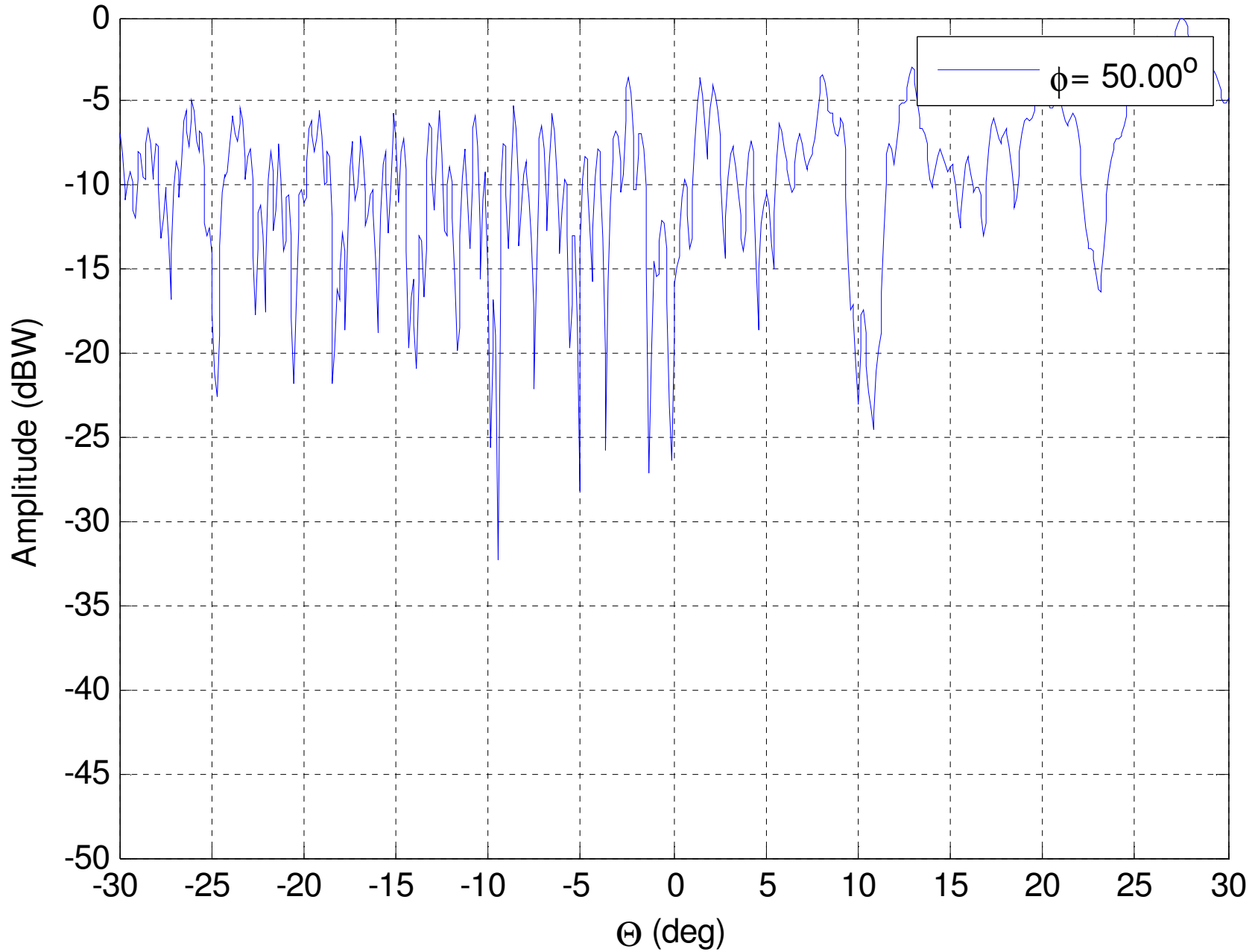
Input file: tx-17.7-rhcp-40.cut, Peak: 3.11 dBW, Date: 06-Dec-2011





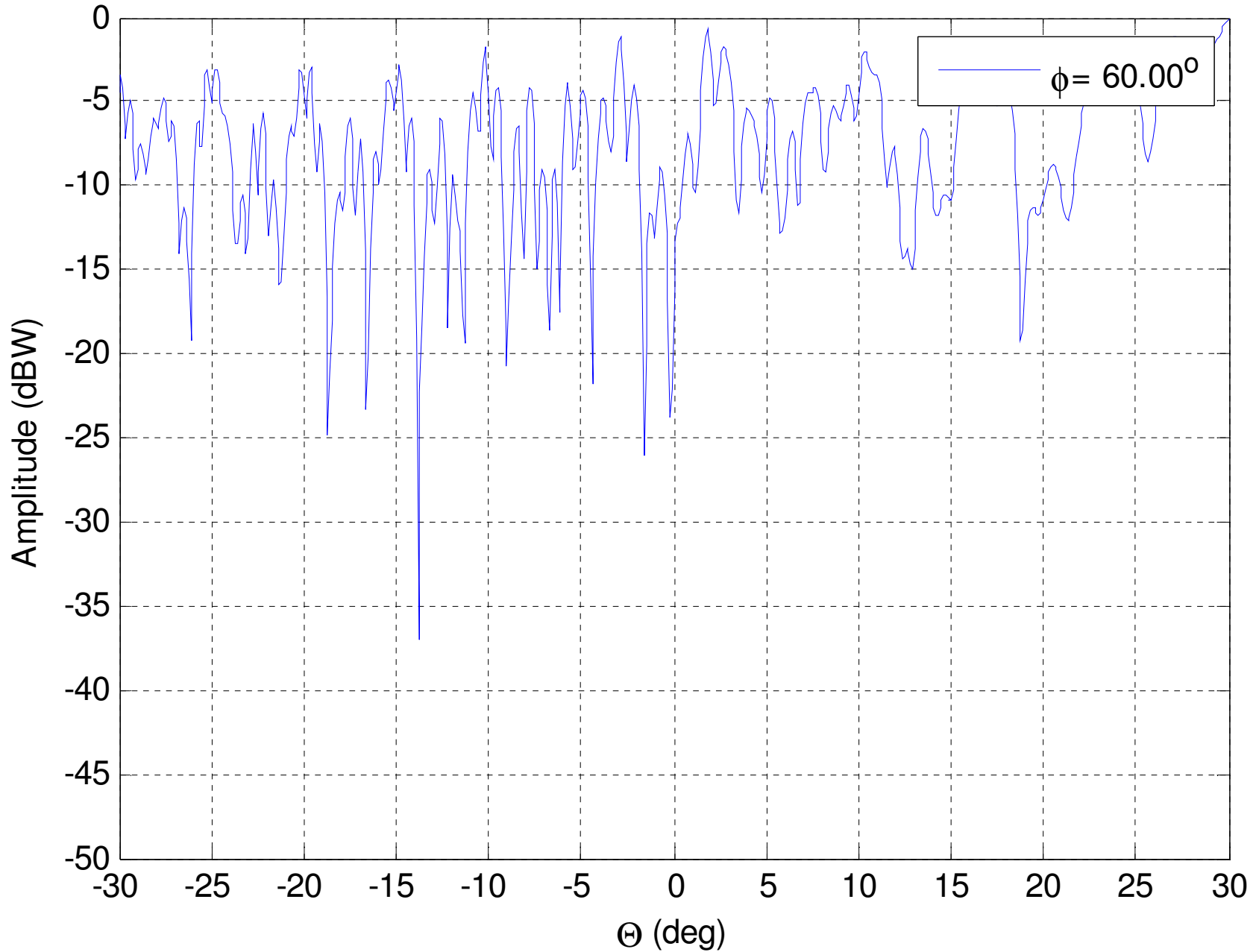
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp-50.cut, Peak: 2.08 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

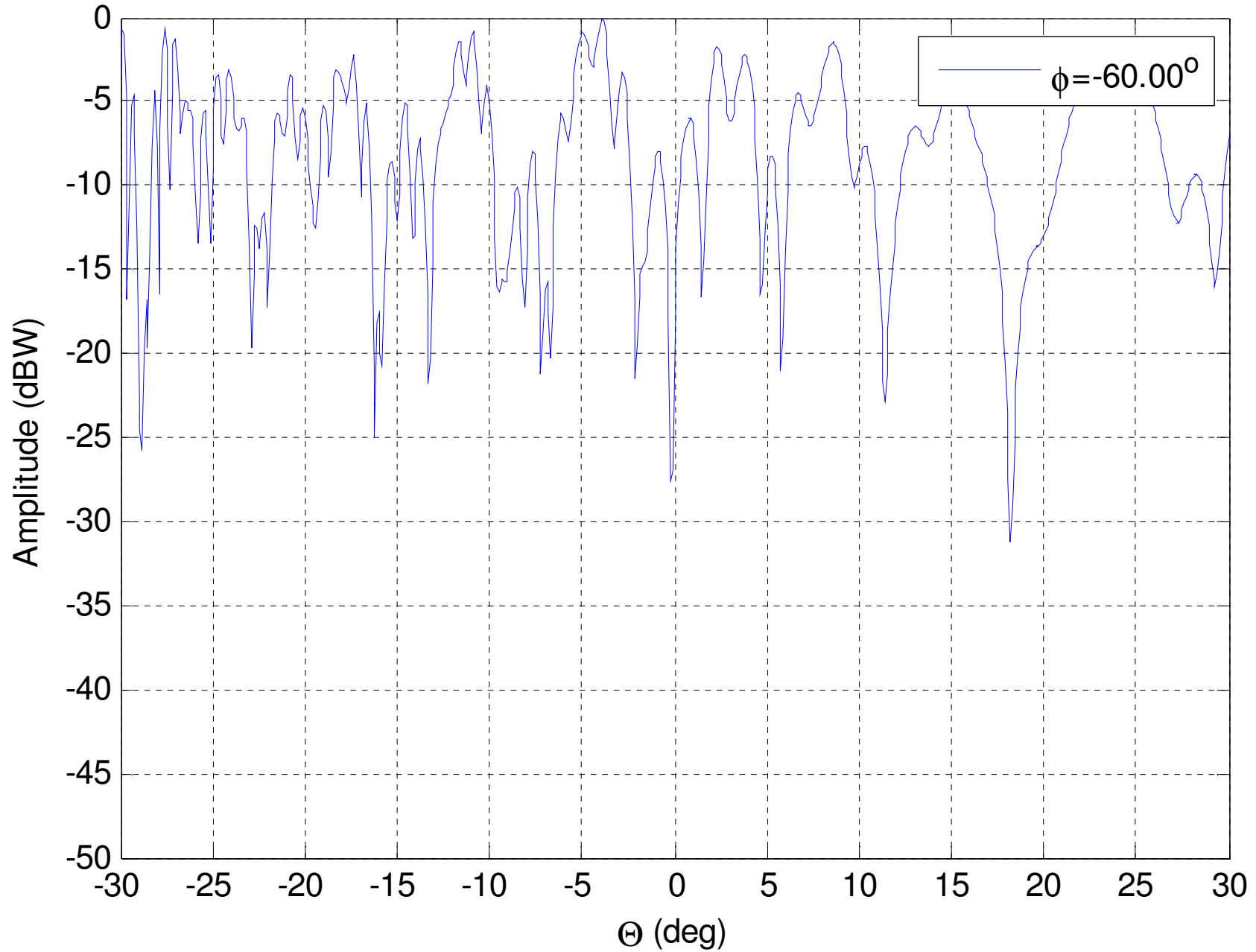
Input file: tx-17.7-rhcp-60.cut, Peak: -0.74 dBW, Date: 06-Dec-2011



**LHCP at 17.7 GHz**

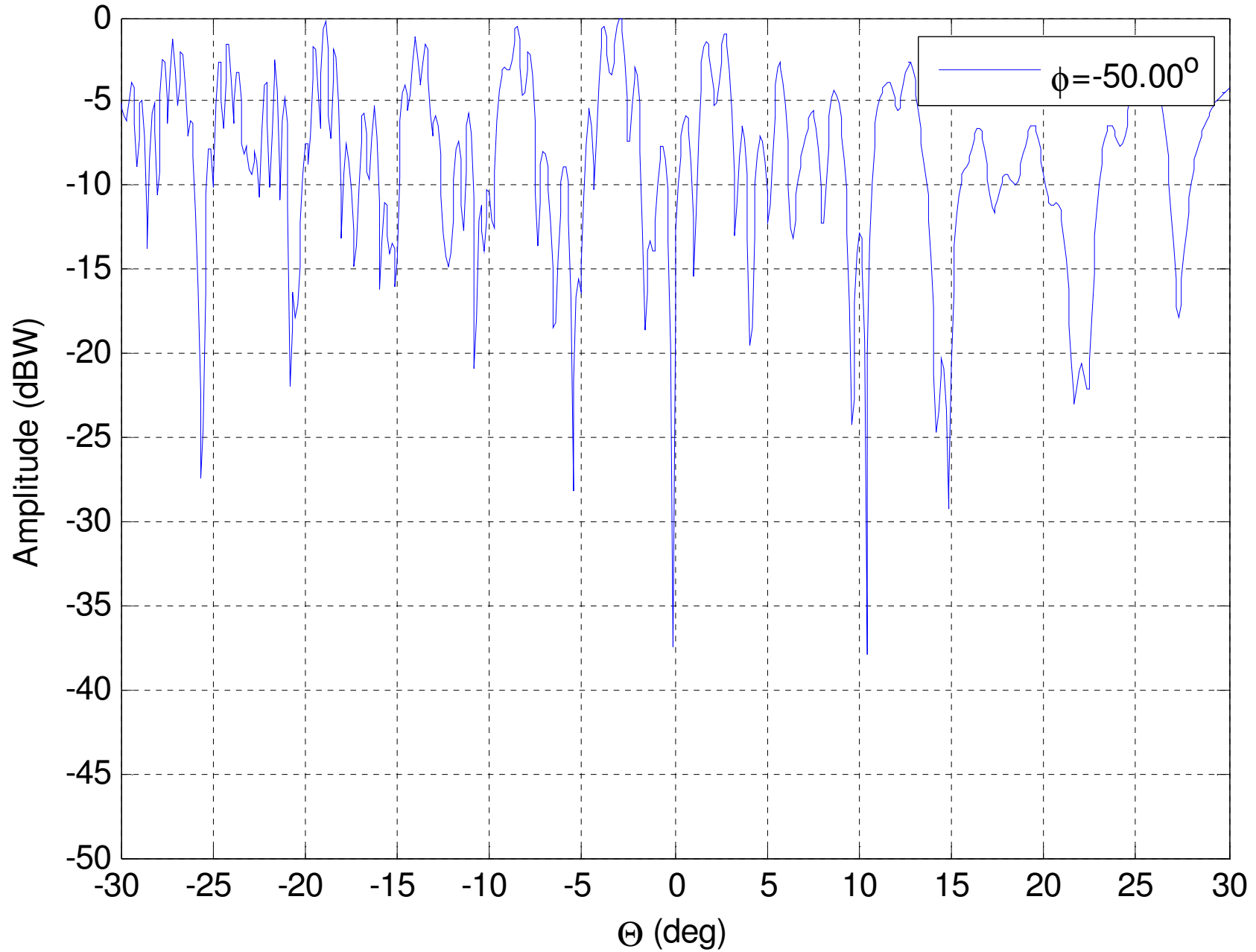
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp--60.cut, Peak: -1.90 dBW, Date: 06-Dec-2011



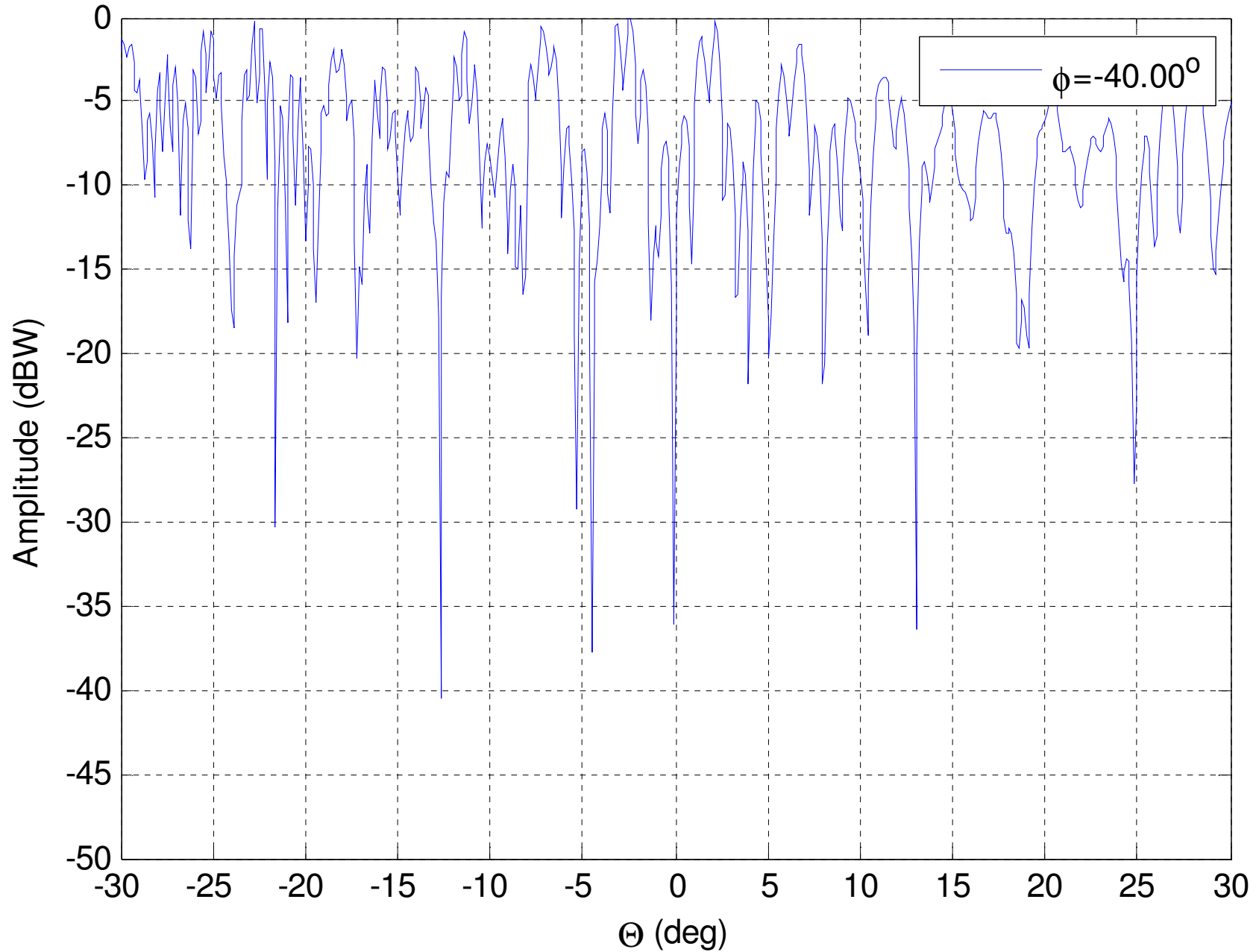
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp--50.cut, Peak: -1.94 dBW, Date: 06-Dec-2011



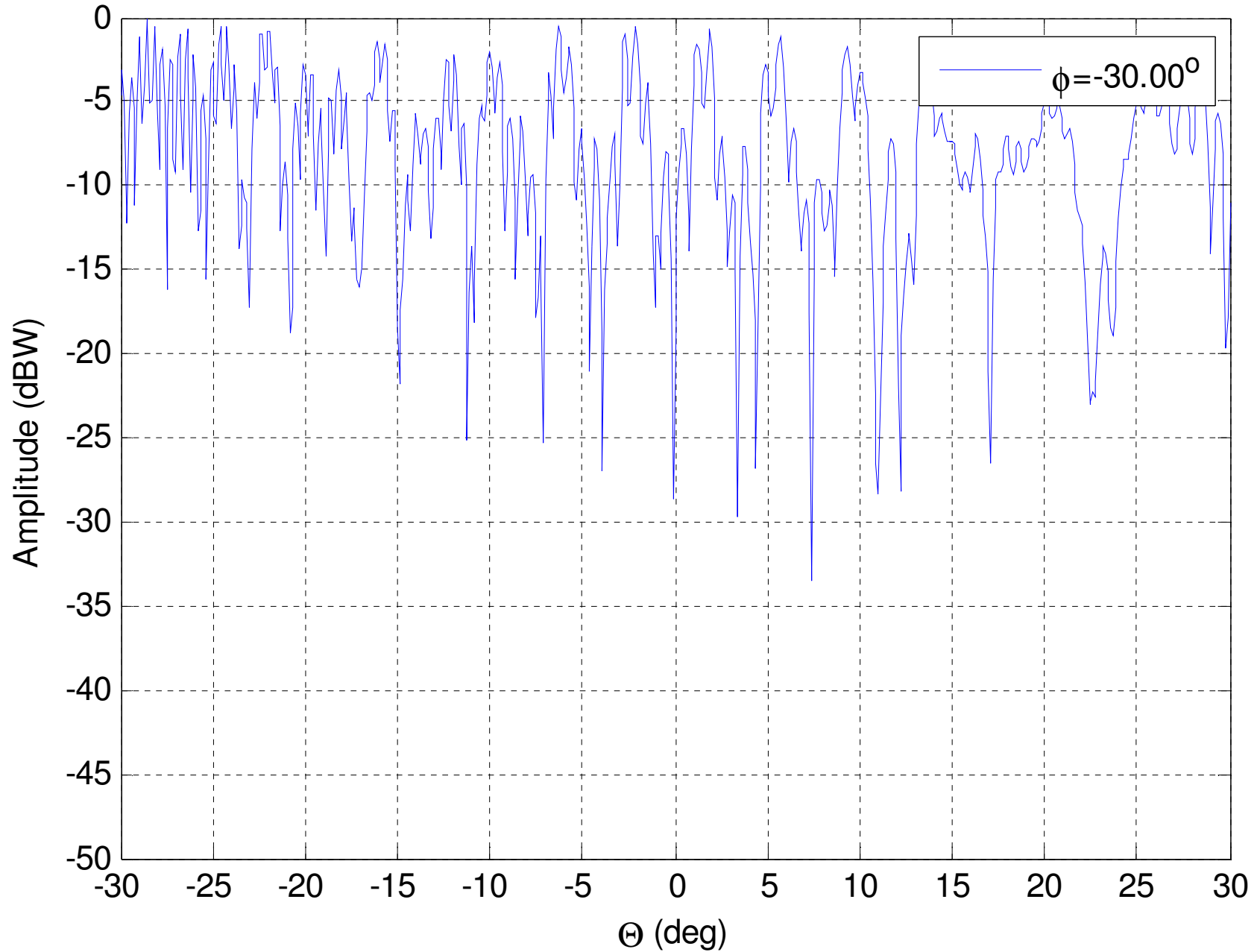
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp--40.cut, Peak: -1.95 dBW, Date: 06-Dec-2011



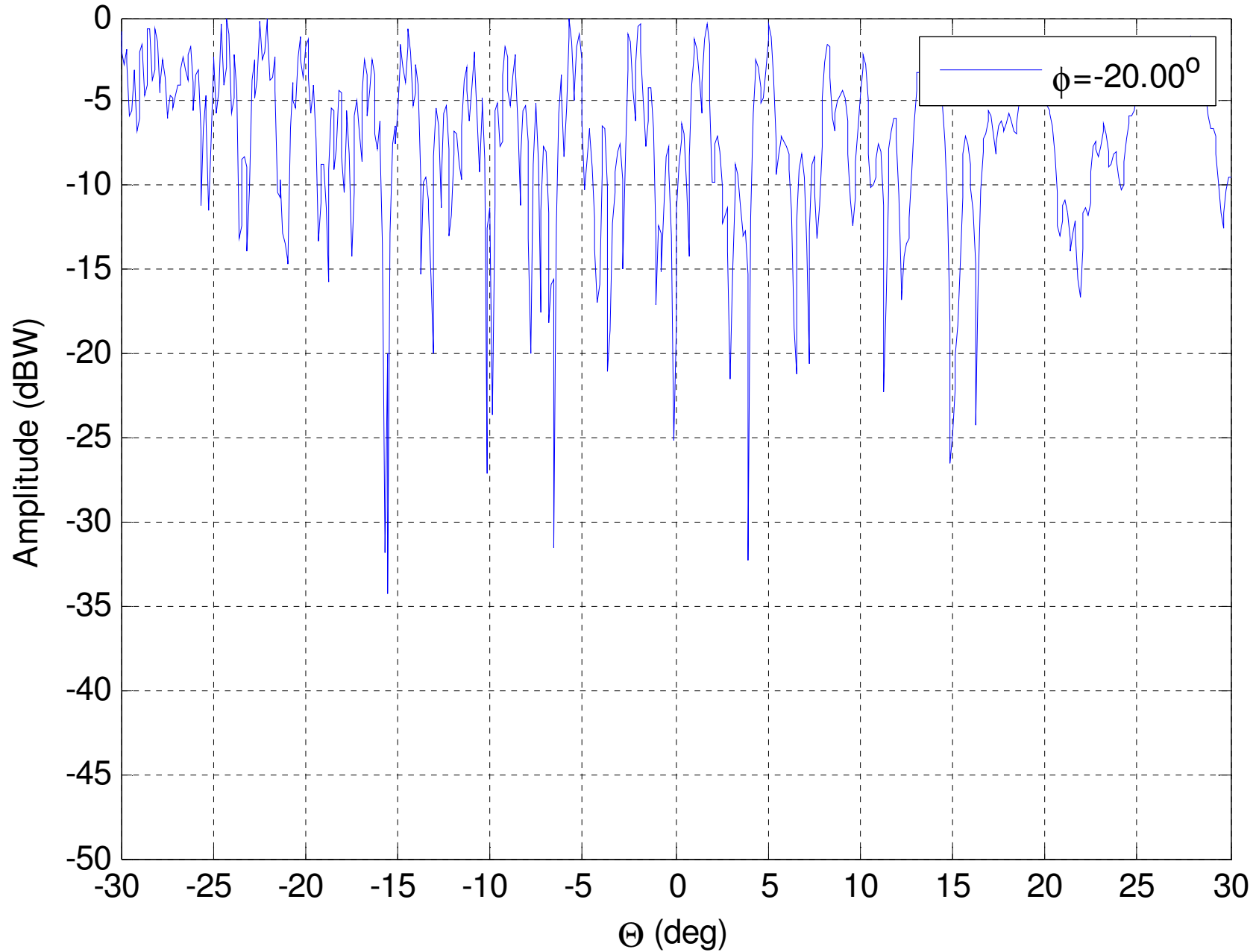
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp--30.cut, Peak: -1.31 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

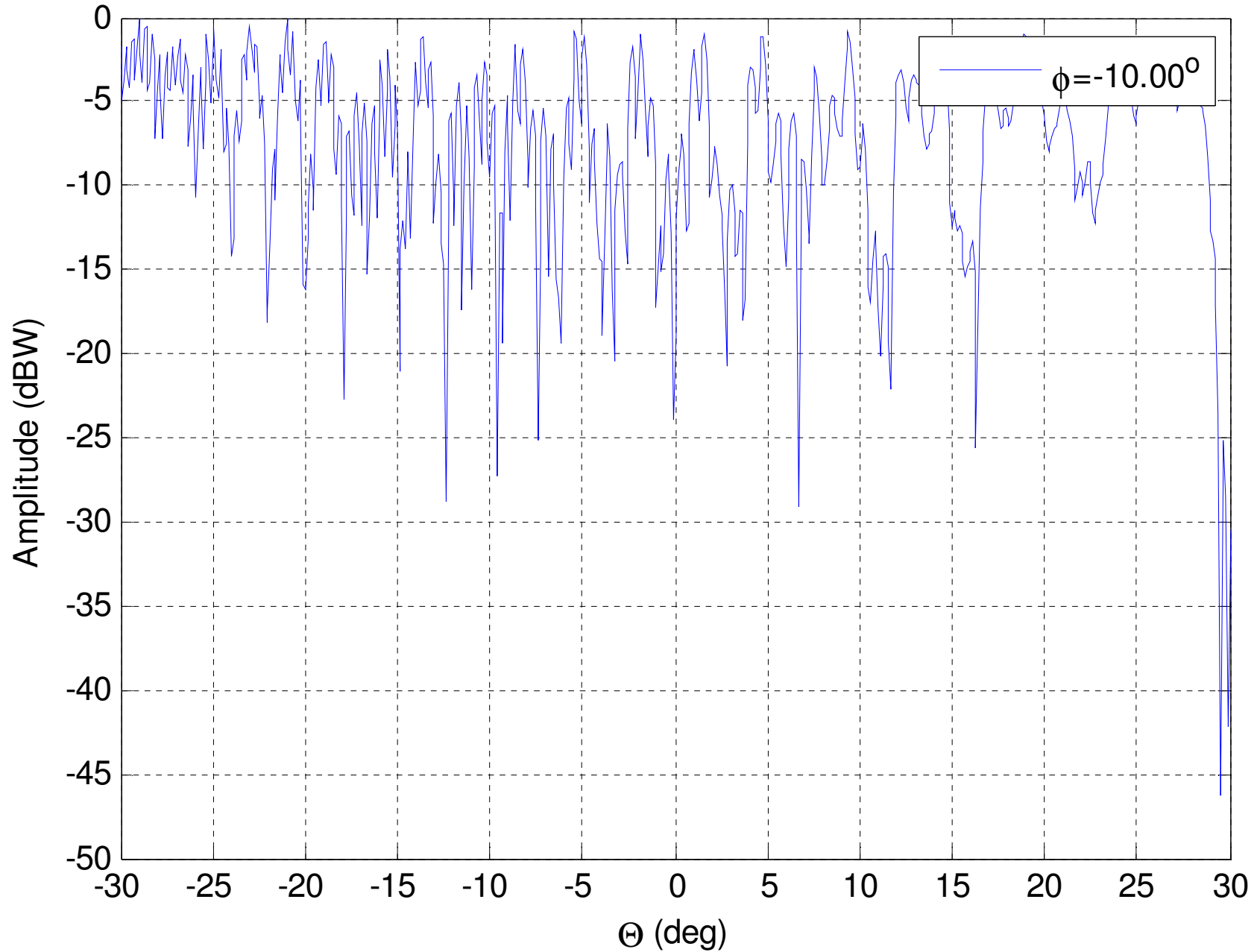
Input file: tx-17.7-lhcp--20.cut, Peak: -1.42 dBW, Date: 06-Dec-2011





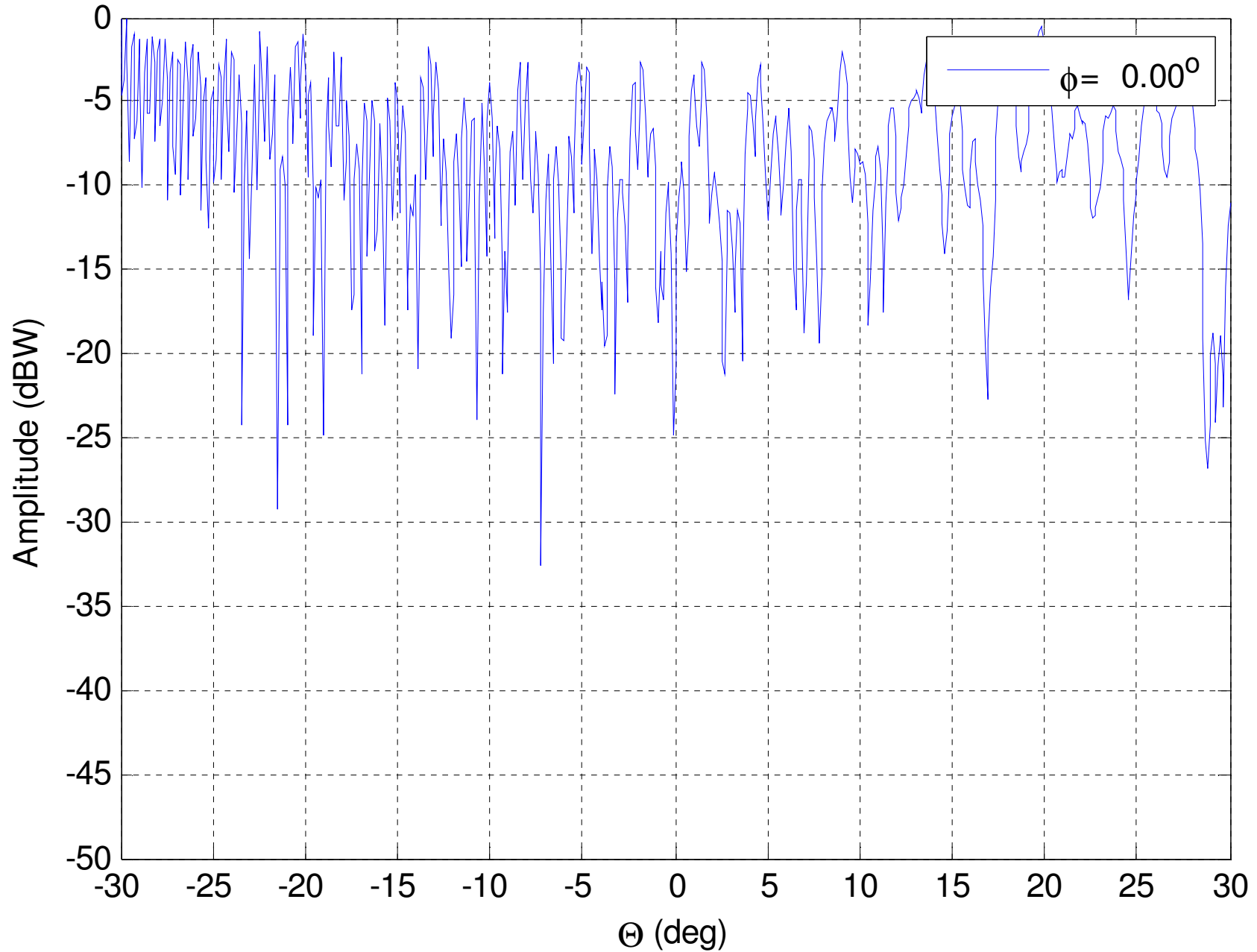
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp--10.cut, Peak: -0.80 dBW, Date: 06-Dec-2011



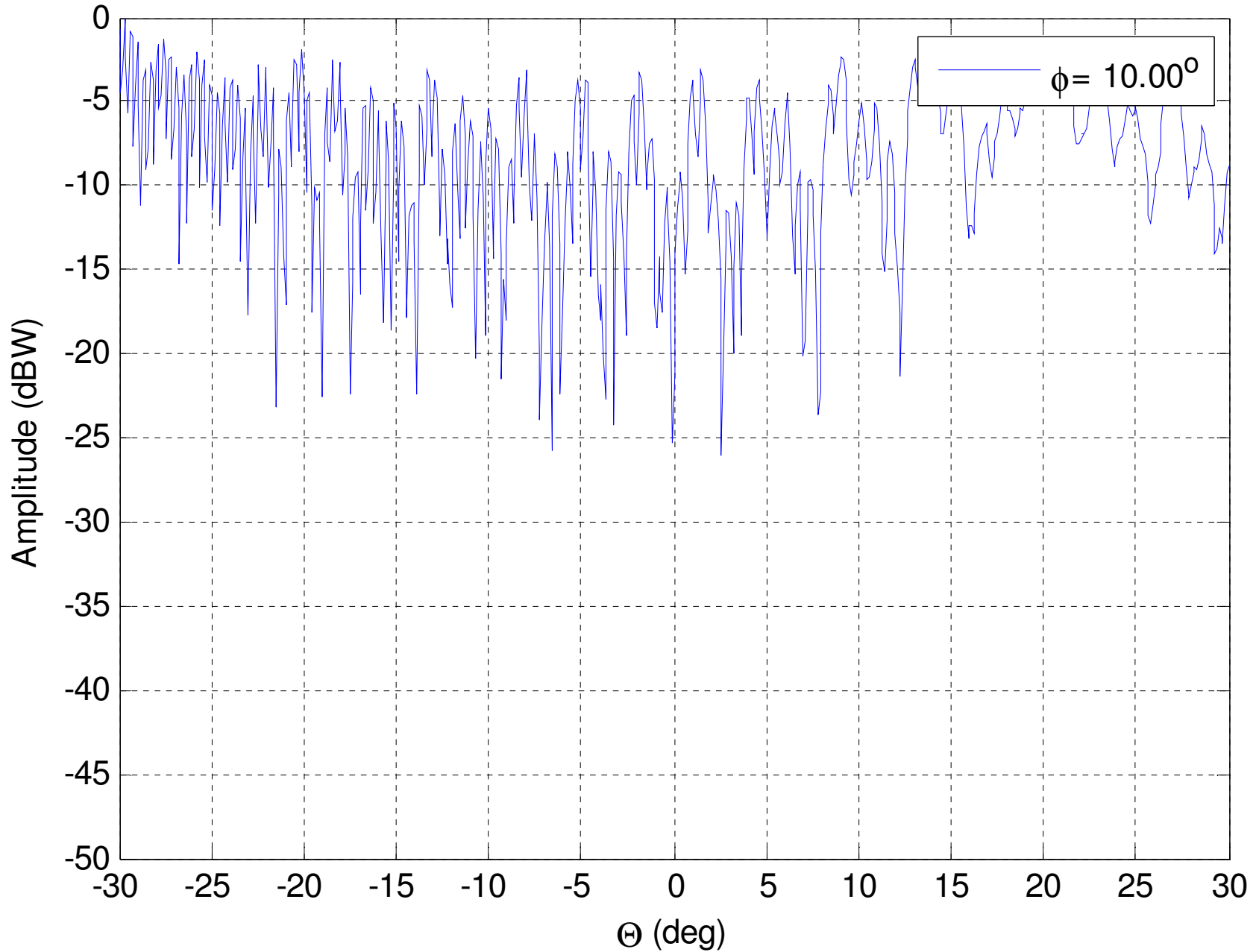
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp-0.cut, Peak: 0.88 dBW, Date: 06-Dec-2011



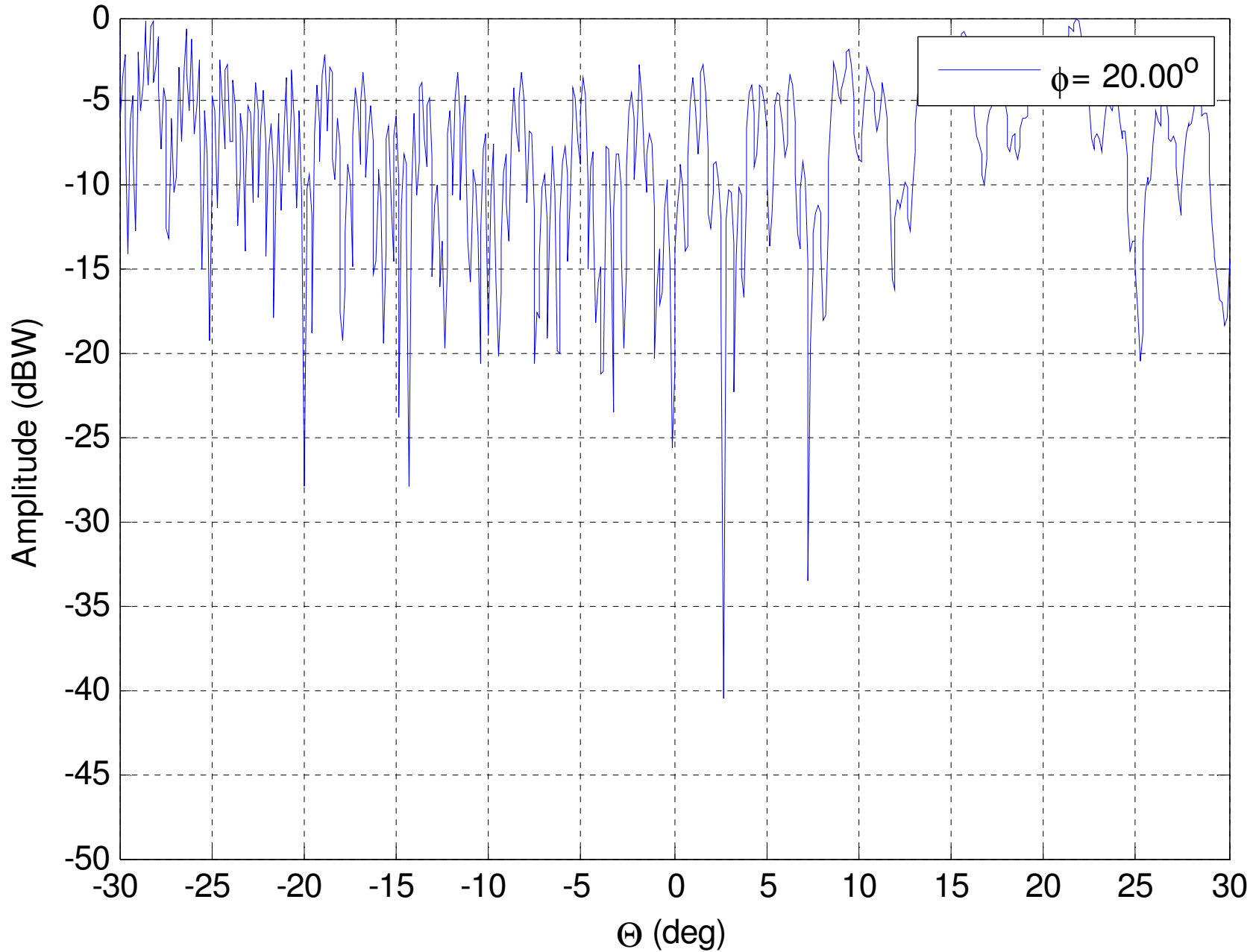
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp-10.cut, Peak: 1.41 dBW, Date: 06-Dec-2011



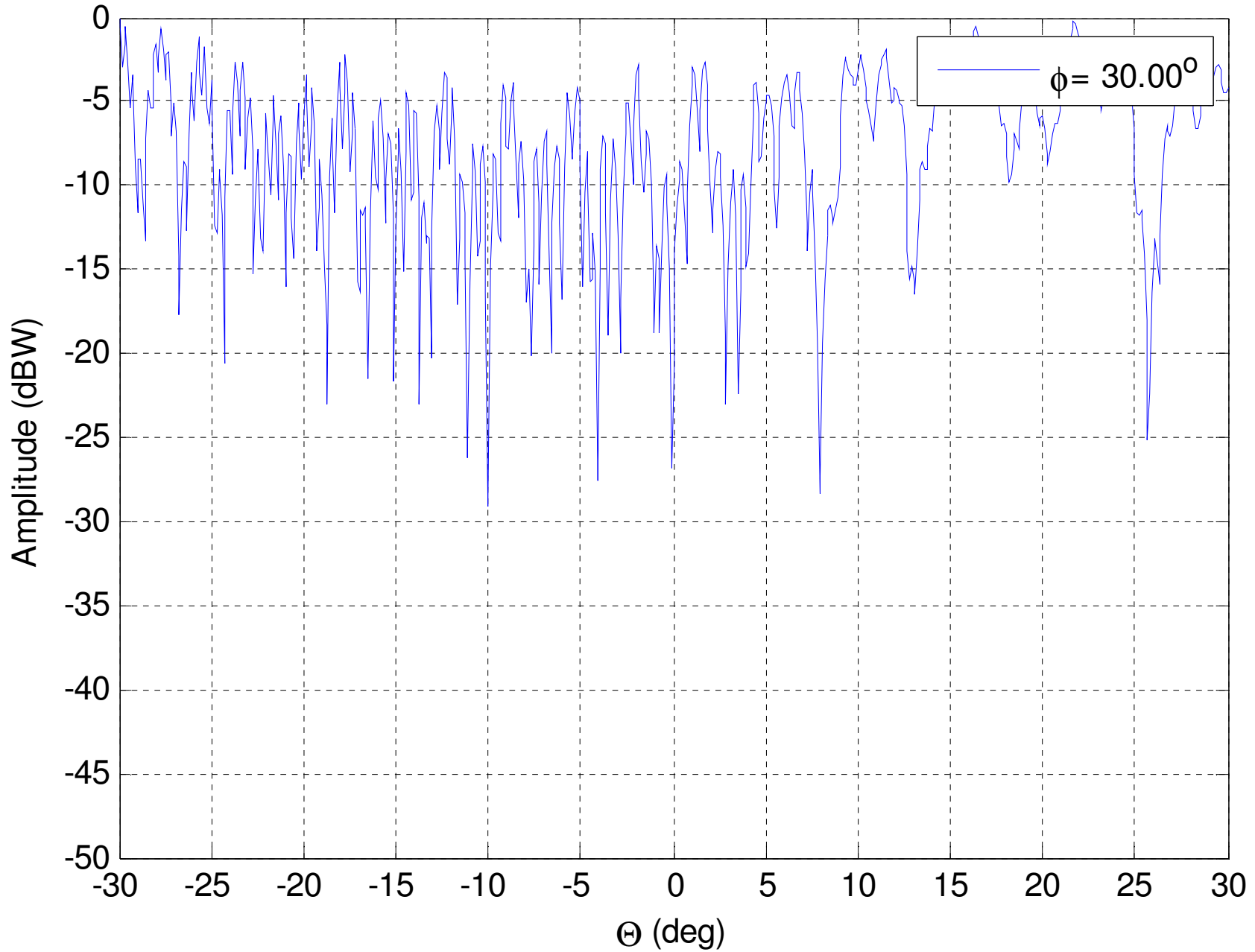
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp-20.cut, Peak: 1.08 dBW, Date: 06-Dec-2011



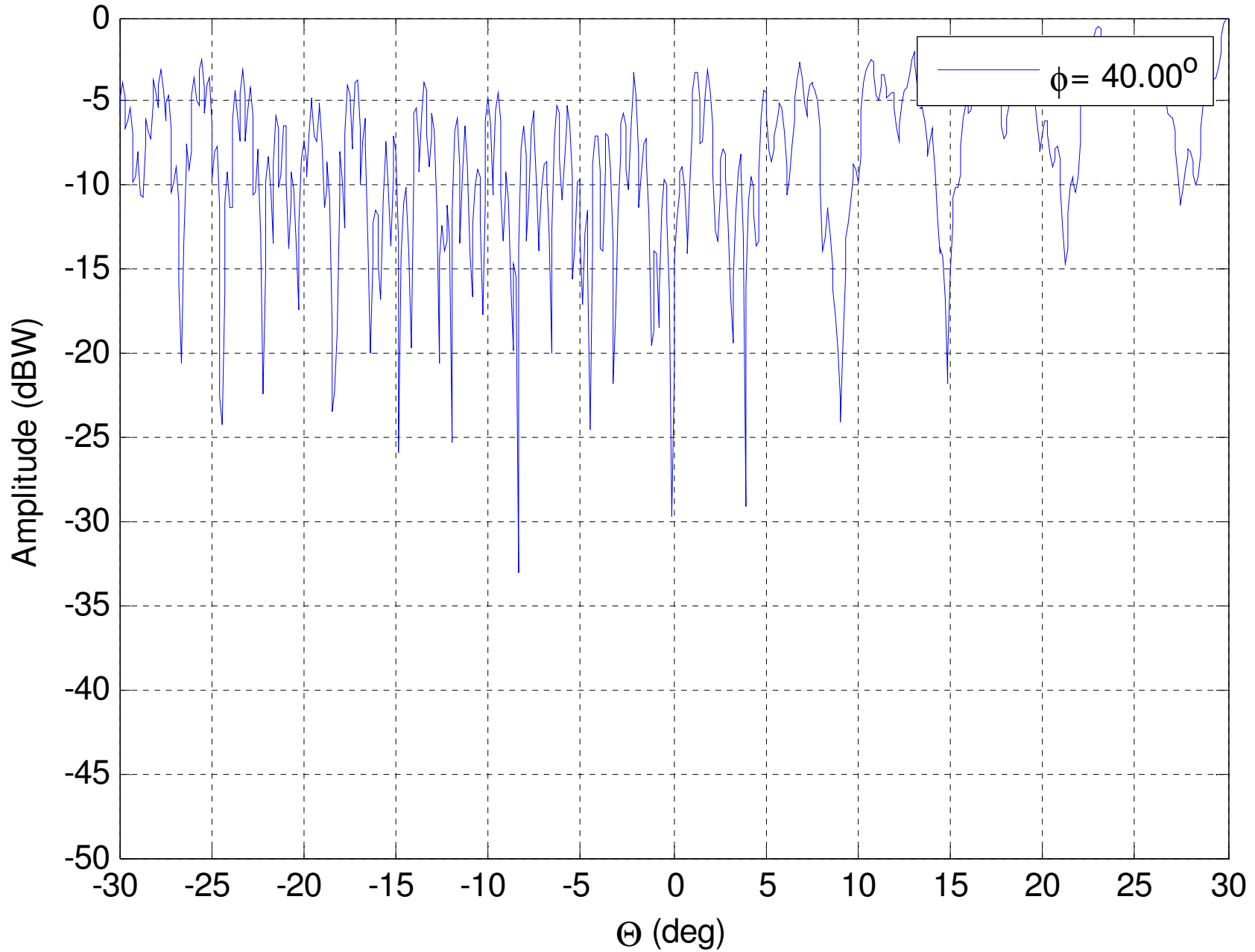
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp-30.cut, Peak: 0.89 dBW, Date: 06-Dec-2011



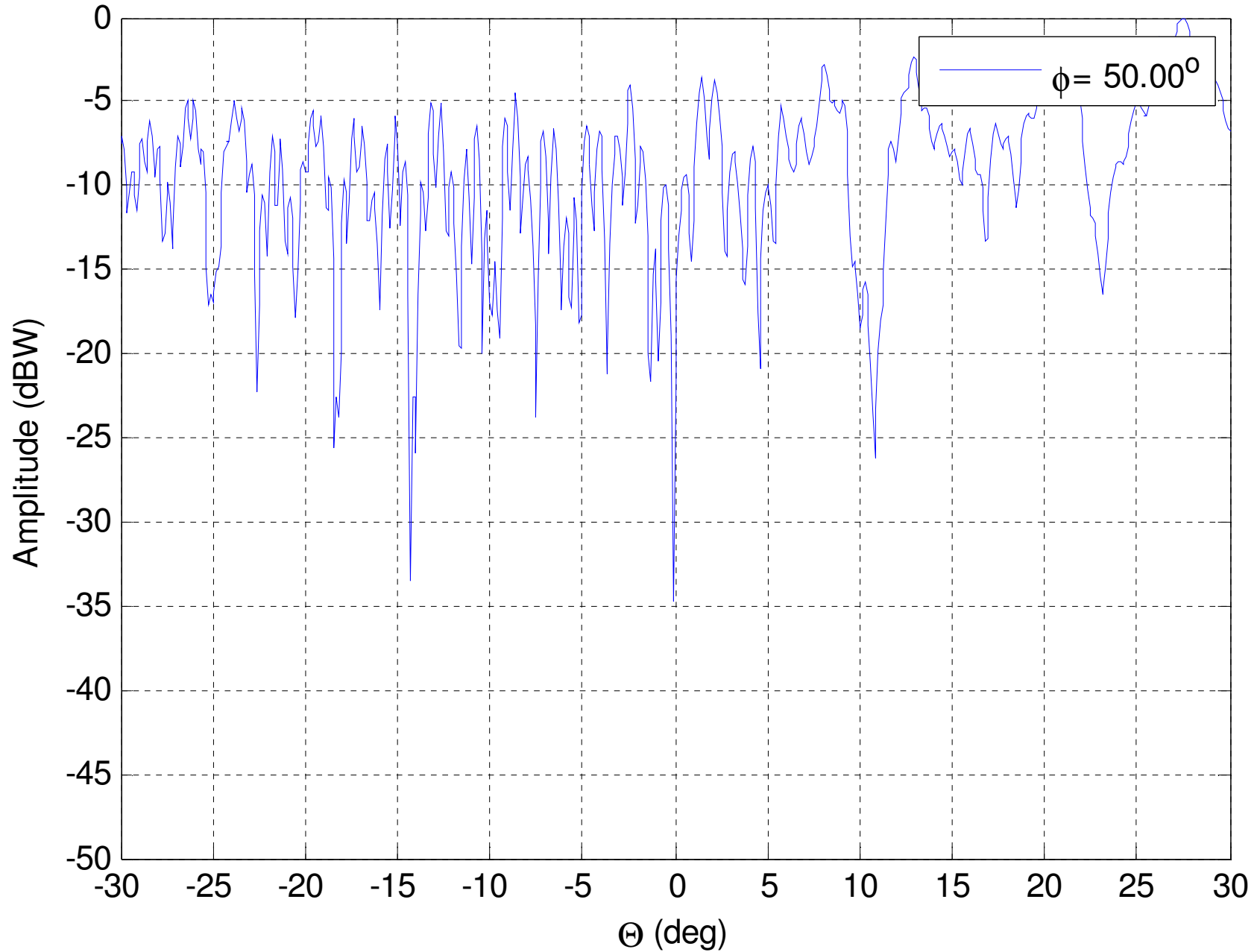
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp-40.cut, Peak: 1.17 dBW, Date: 06-Dec-2011



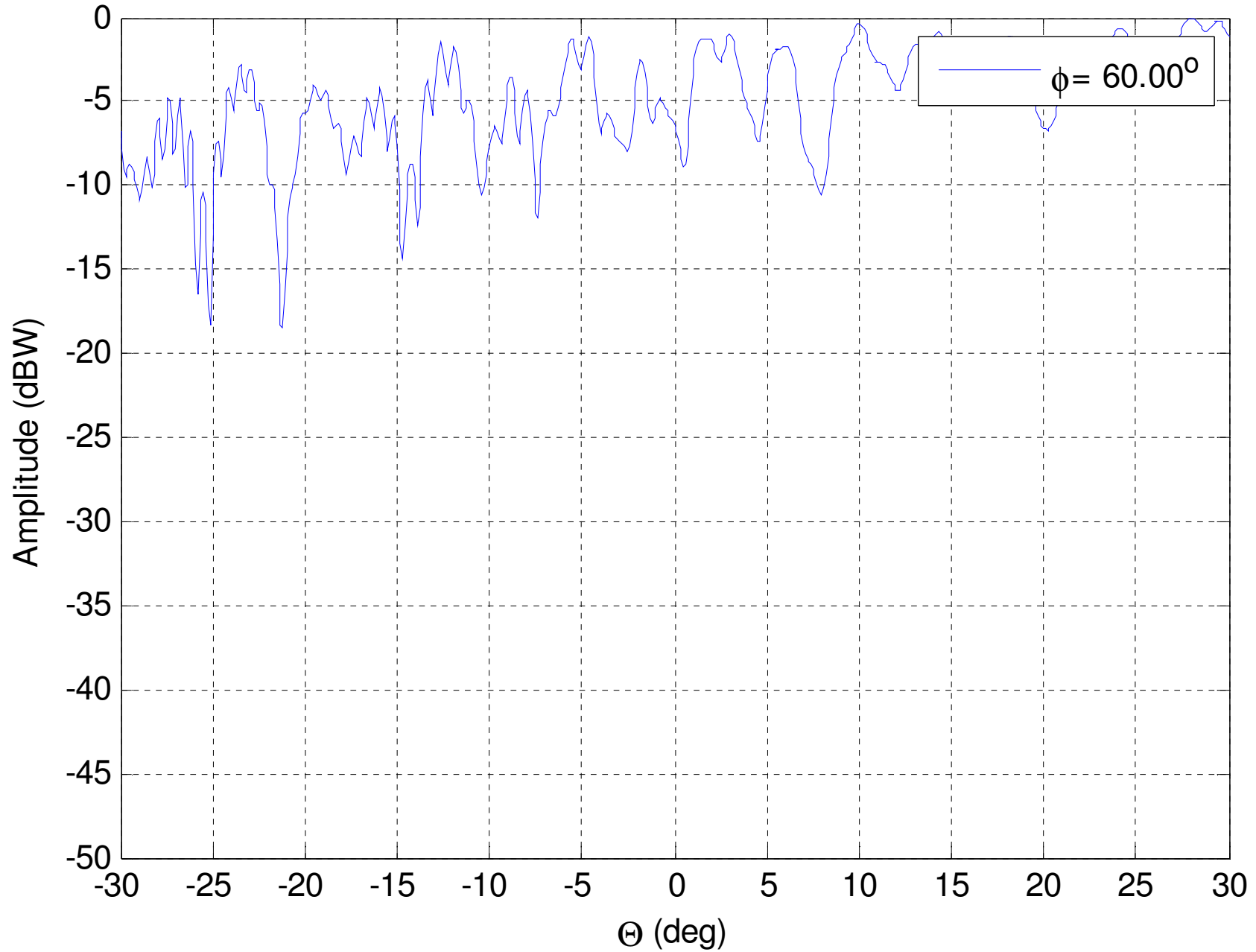
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp-50.cut, Peak: 1.64 dBW, Date: 06-Dec-2011



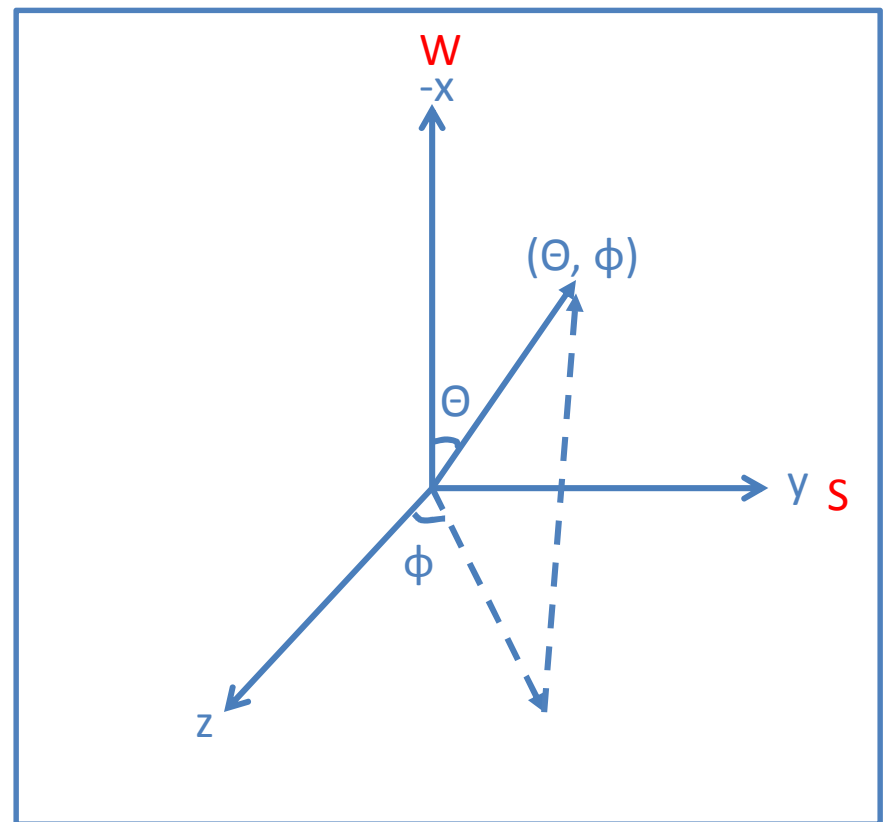
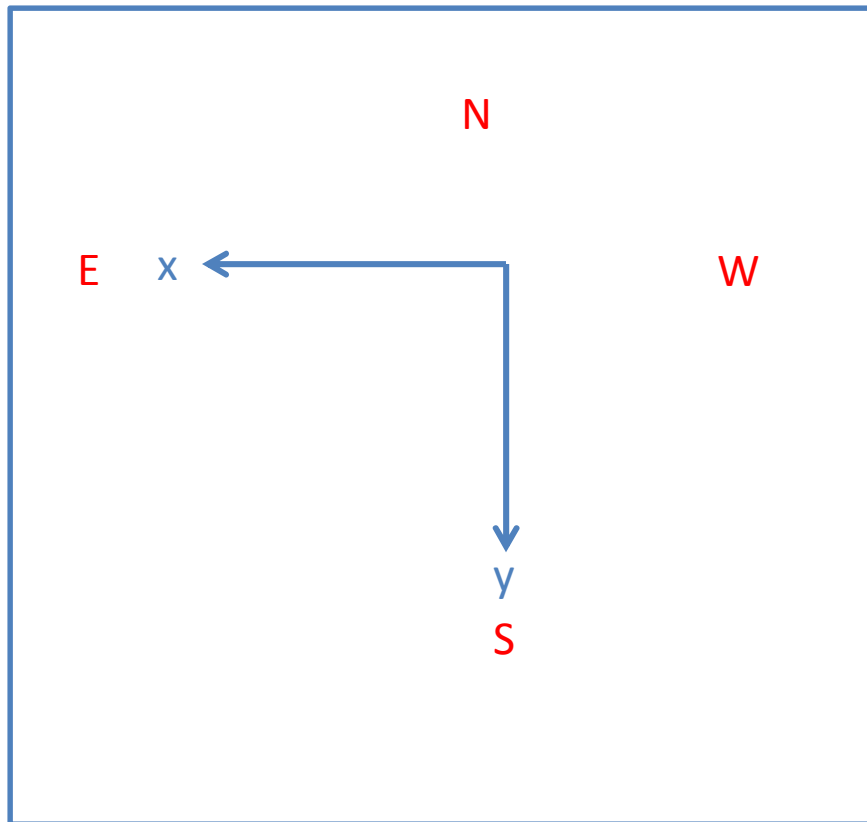
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp-60.cut, Peak: -2.70 dBW, Date: 06-Dec-2011





# Coordinate System



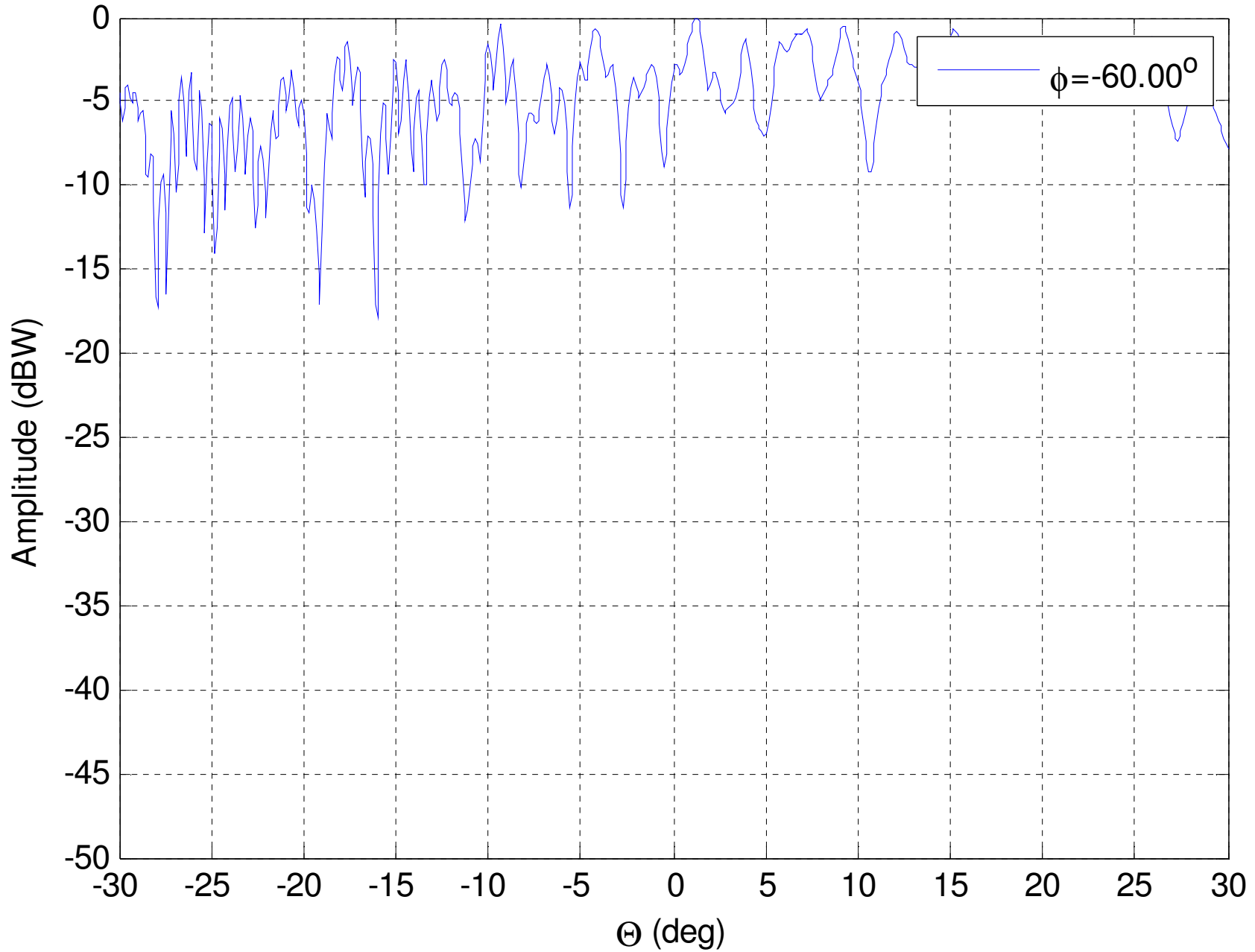
# CONUS Beam, +X Axis Plots

- Both polarizations; RHCP, LHCP
- $-30 < \Theta < 30$  ( $\Theta=0$ : = +X-axis)
- $-60 < \phi < 60$
- Freq = 17.305, 17.5, and 17.695 GHz
- The Zero reference line is the peak gain listed in the title of each chart
- All levels are significantly below the required 15.4 dBW

**RHCP at 17.3 GHz**

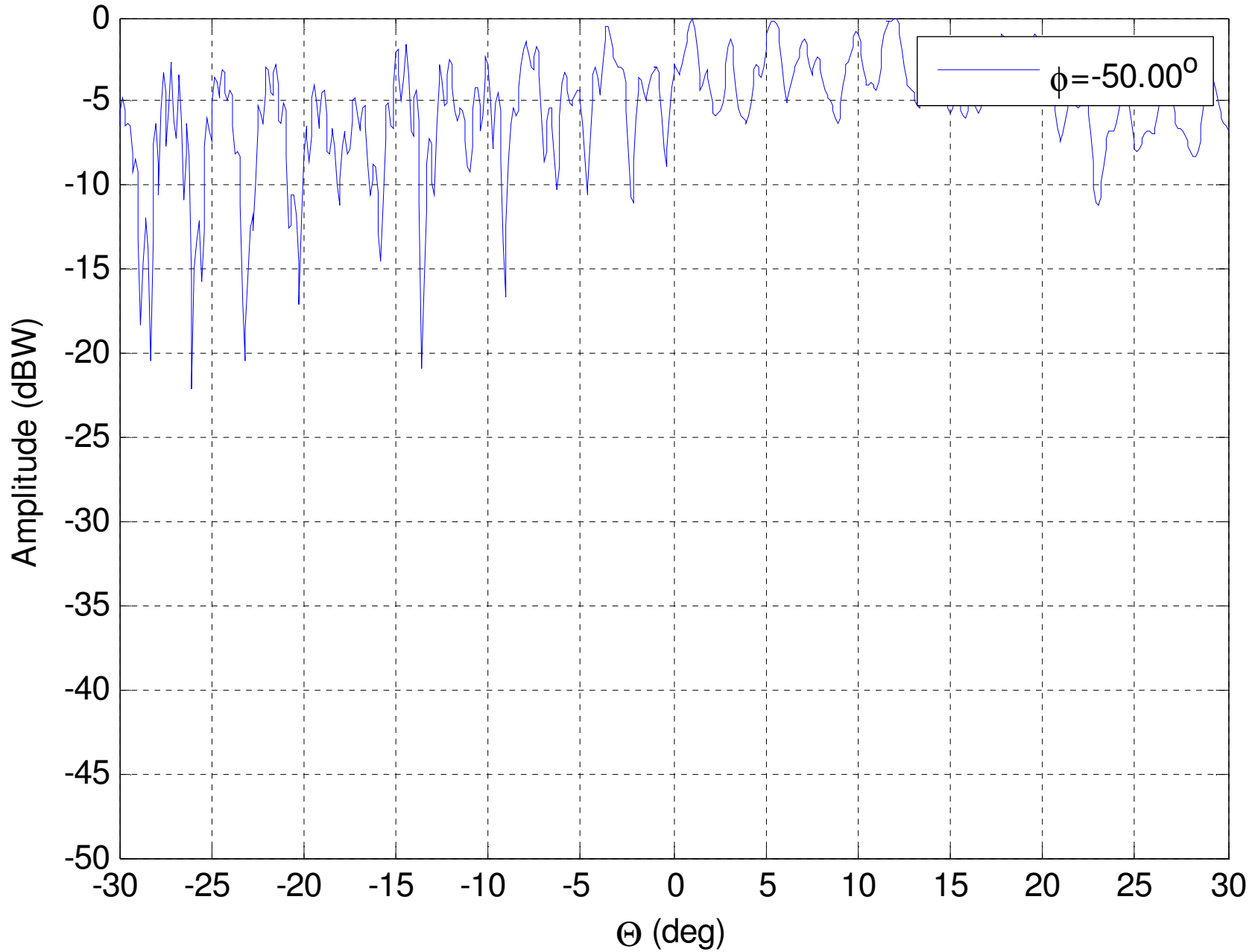
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp--60.cut, Peak: -2.75 dBW, Date: 06-Dec-2011



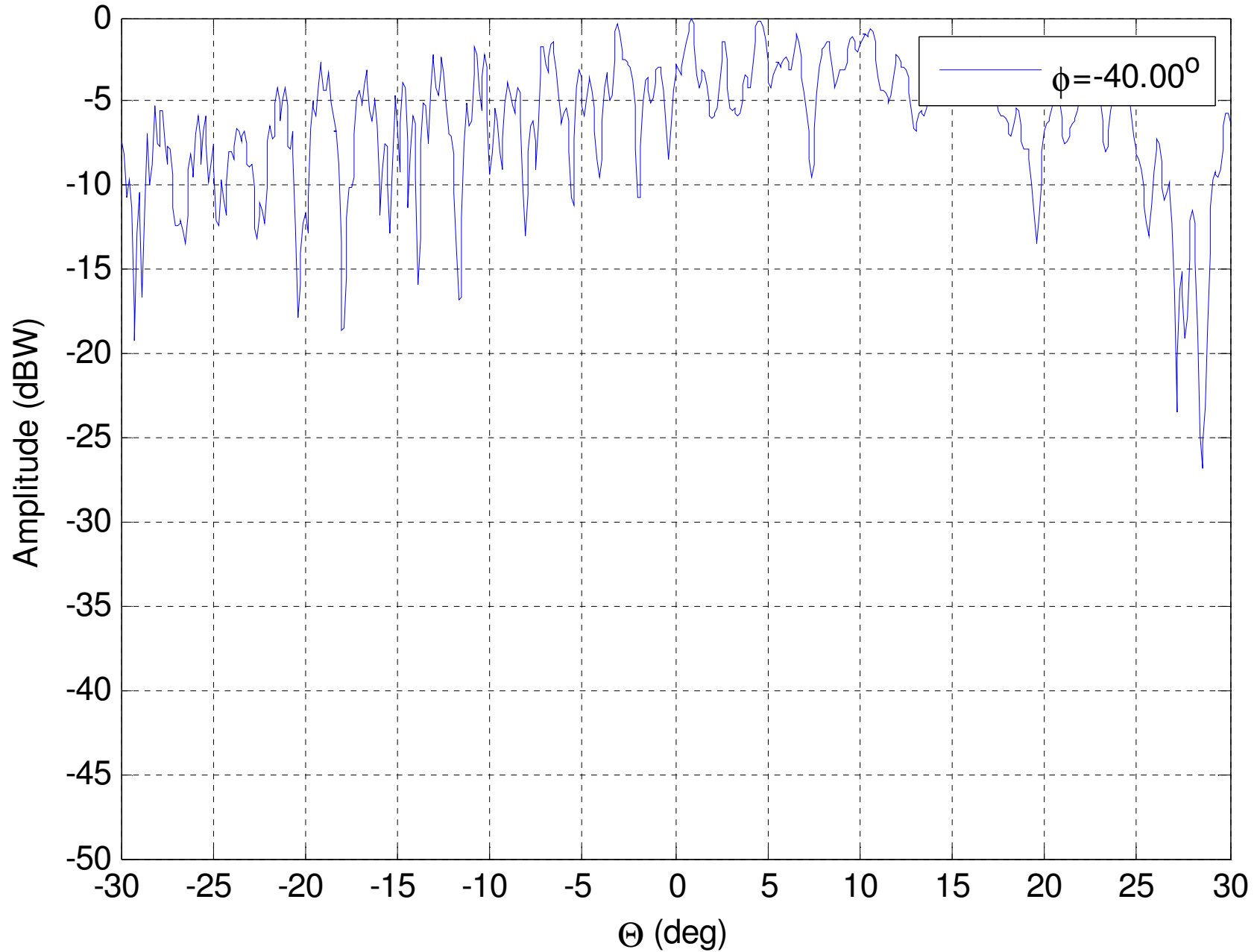
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp--50.cut, Peak: -2.67 dBW, Date: 06-Dec-2011



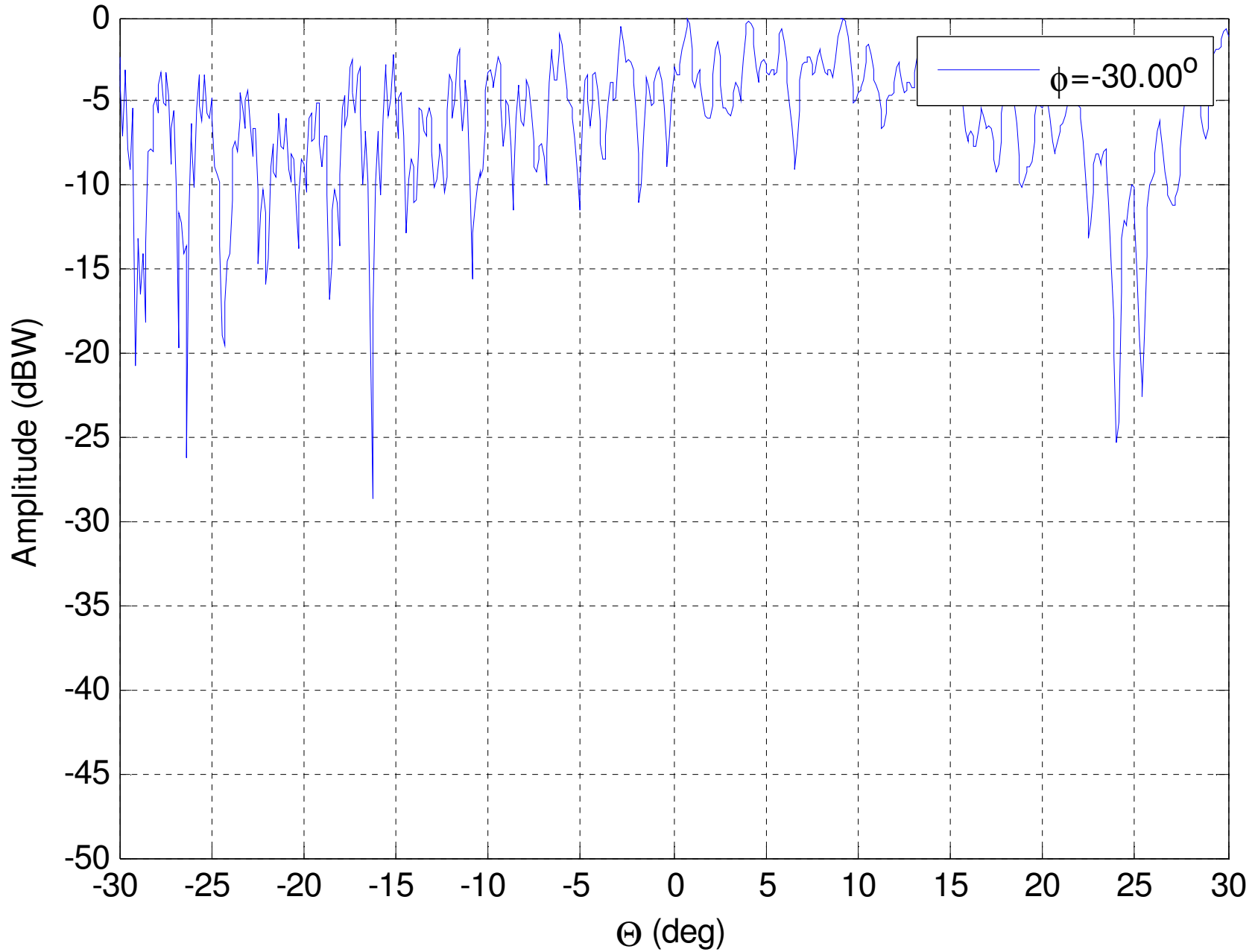
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp--40.cut, Peak: -2.67 dBW, Date: 06-Dec-2011



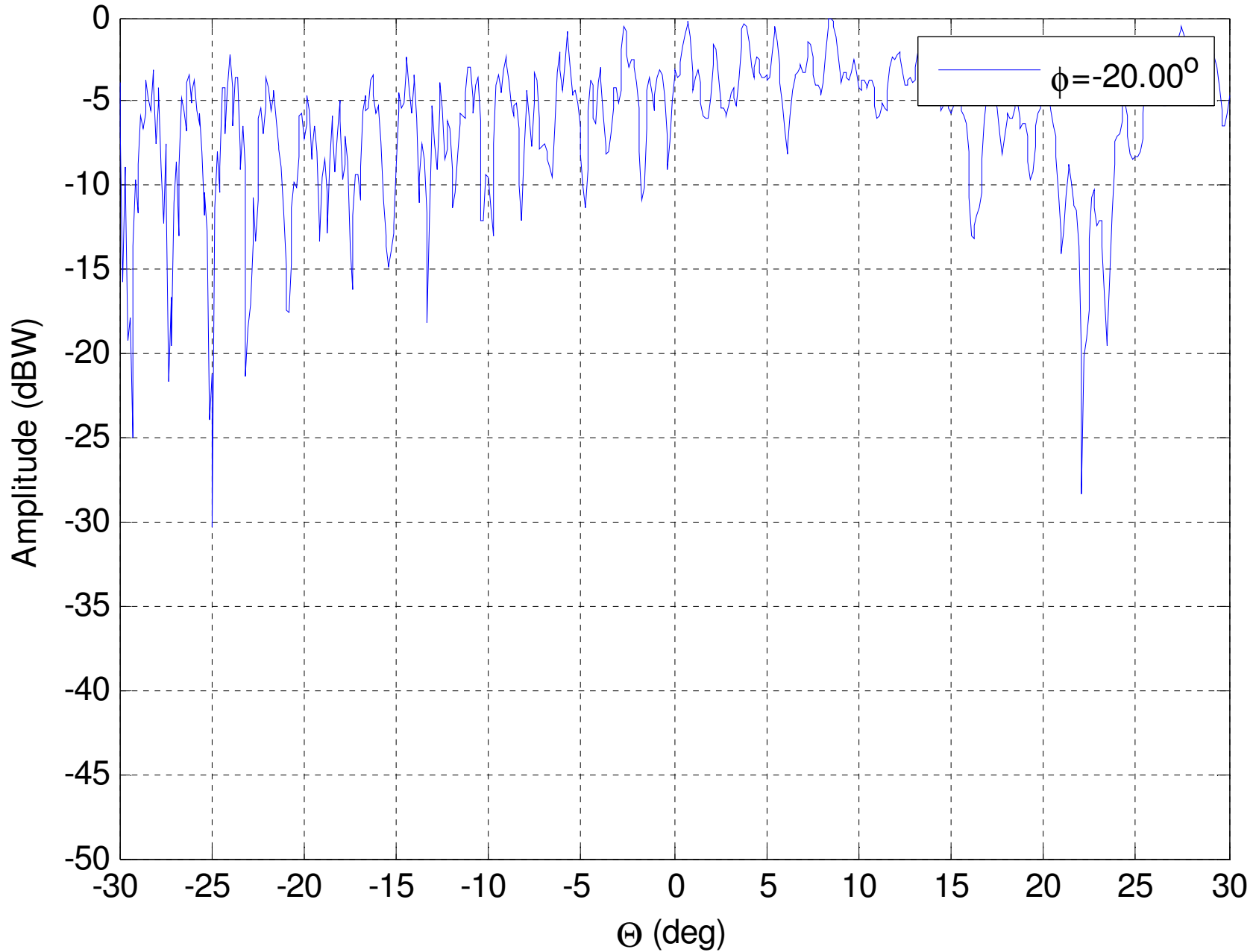
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp--30.cut, Peak: -2.56 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

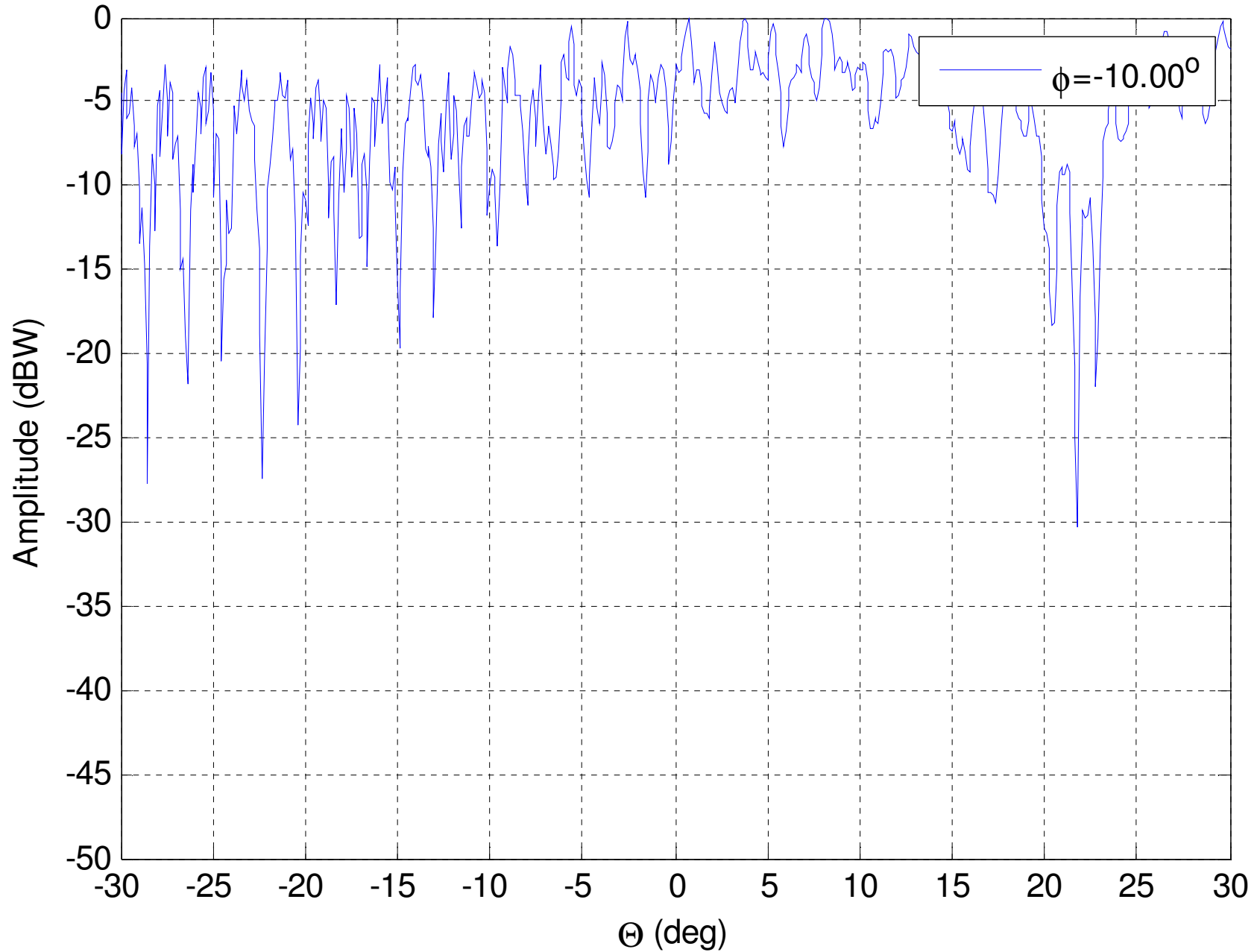
Input file: tx-17.3-rhcp--20.cut, Peak: -2.50 dBW, Date: 06-Dec-2011





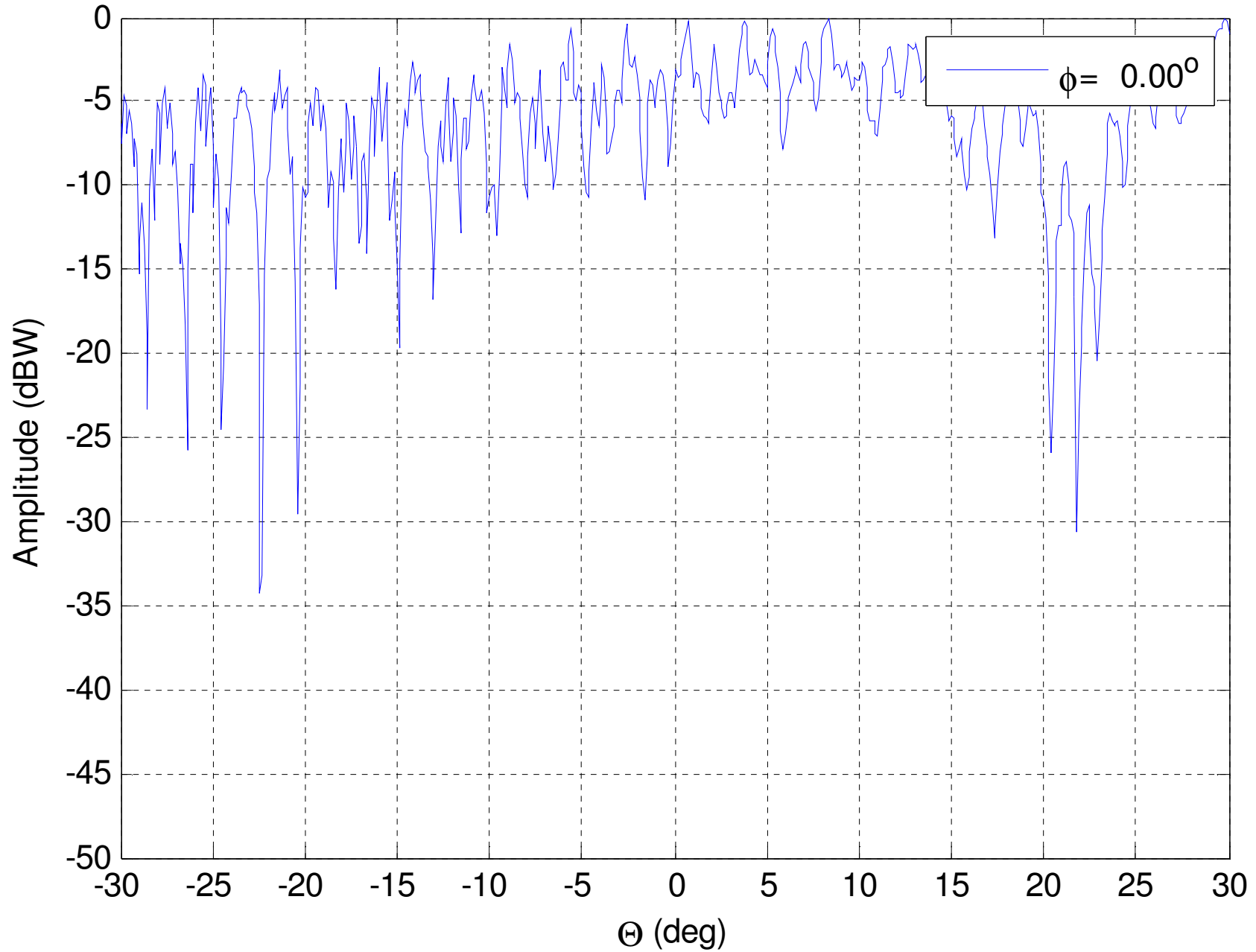
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp--10.cut, Peak: -2.70 dBW, Date: 06-Dec-2011



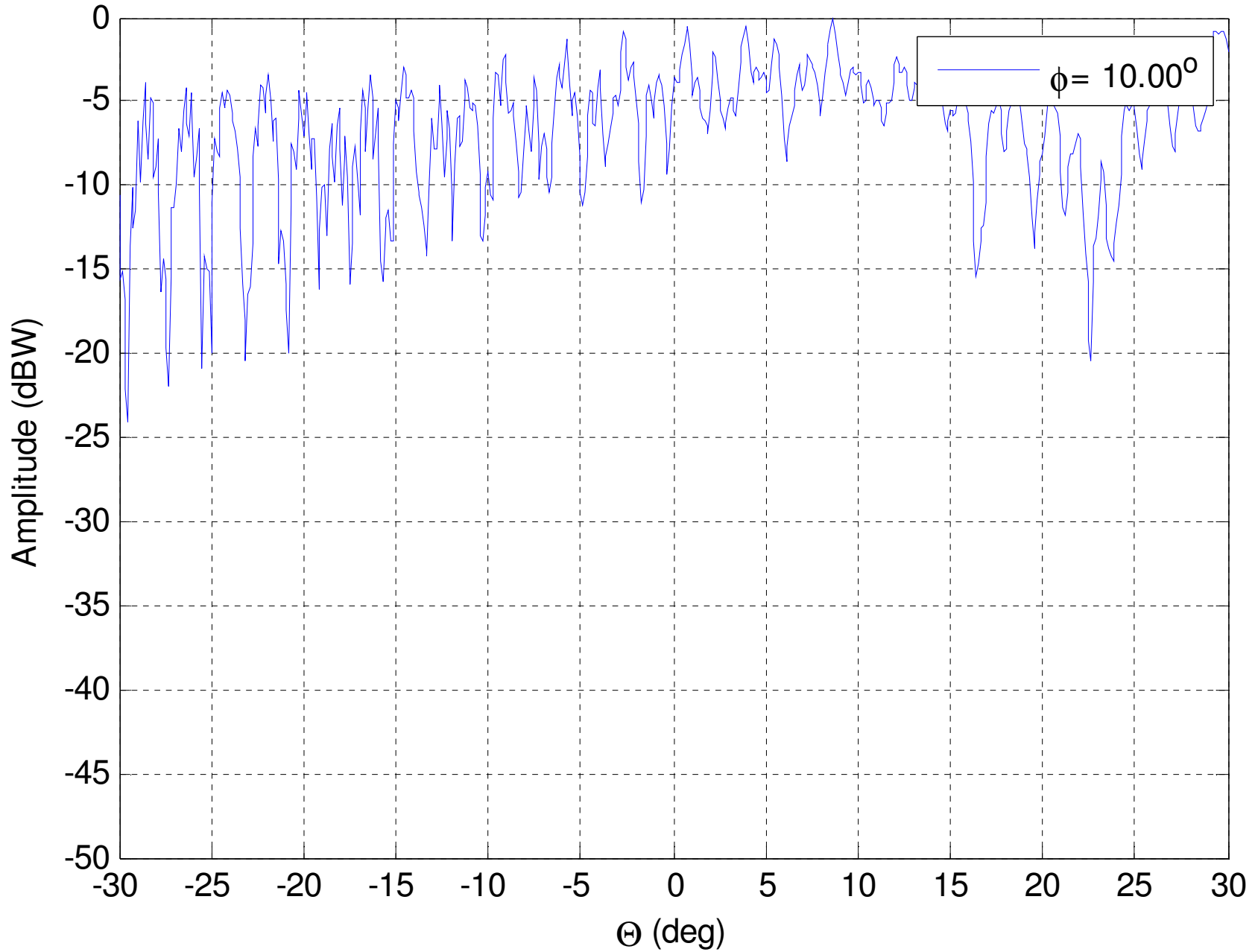
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp-0.cut, Peak: -2.46 dBW, Date: 06-Dec-2011



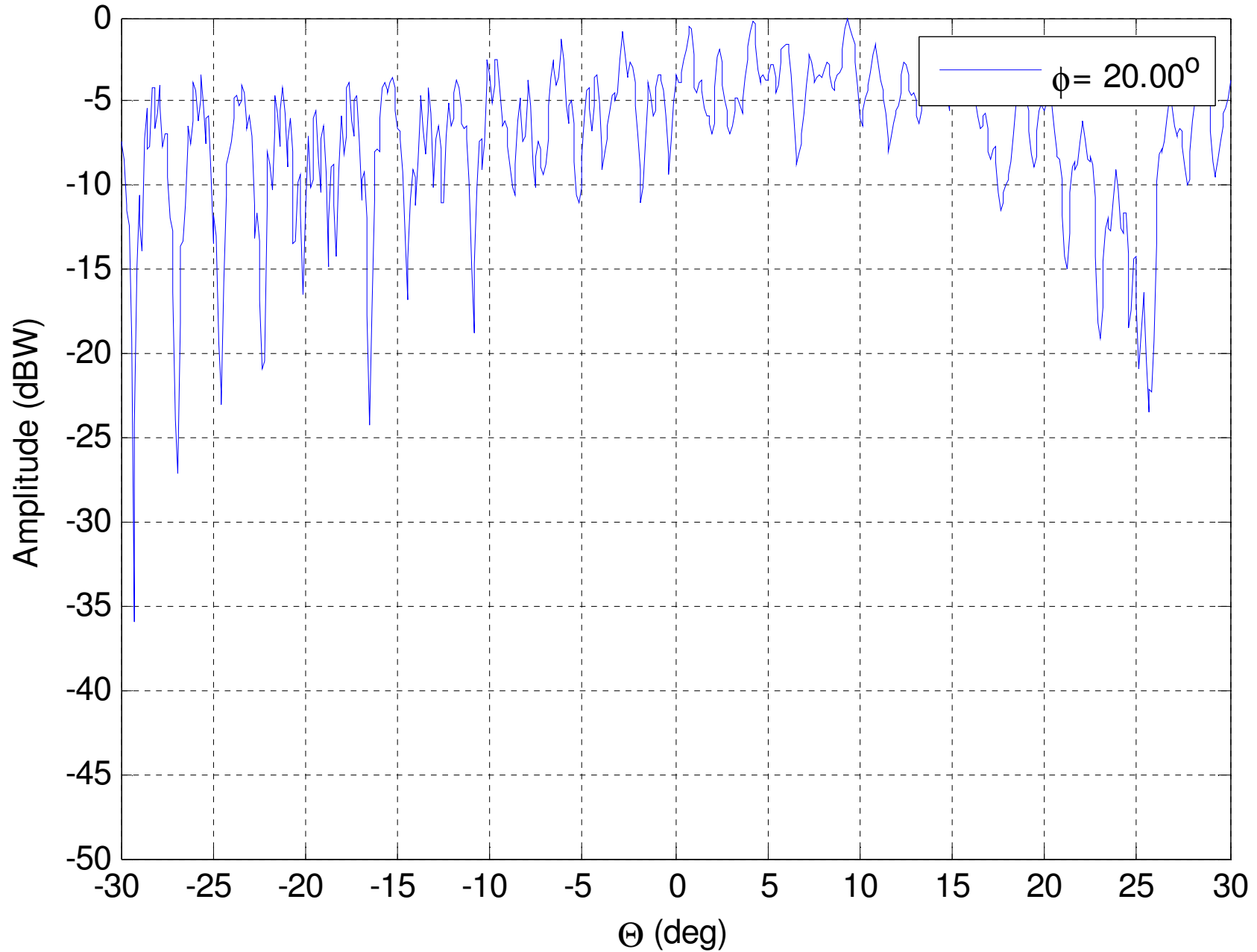
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp-10.cut, Peak: -2.07 dBW, Date: 06-Dec-2011



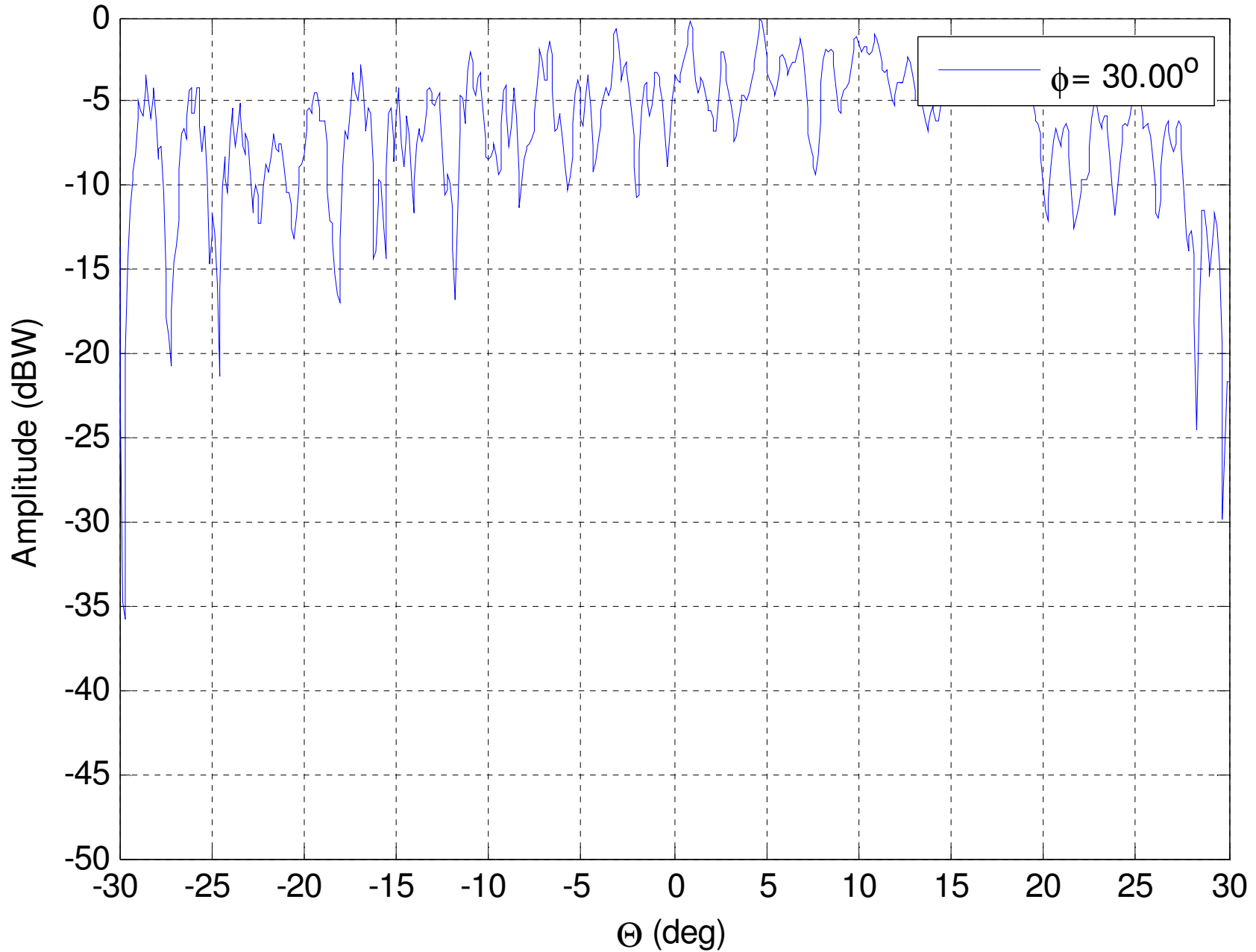
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp-20.cut, Peak: -2.09 dBW, Date: 06-Dec-2011



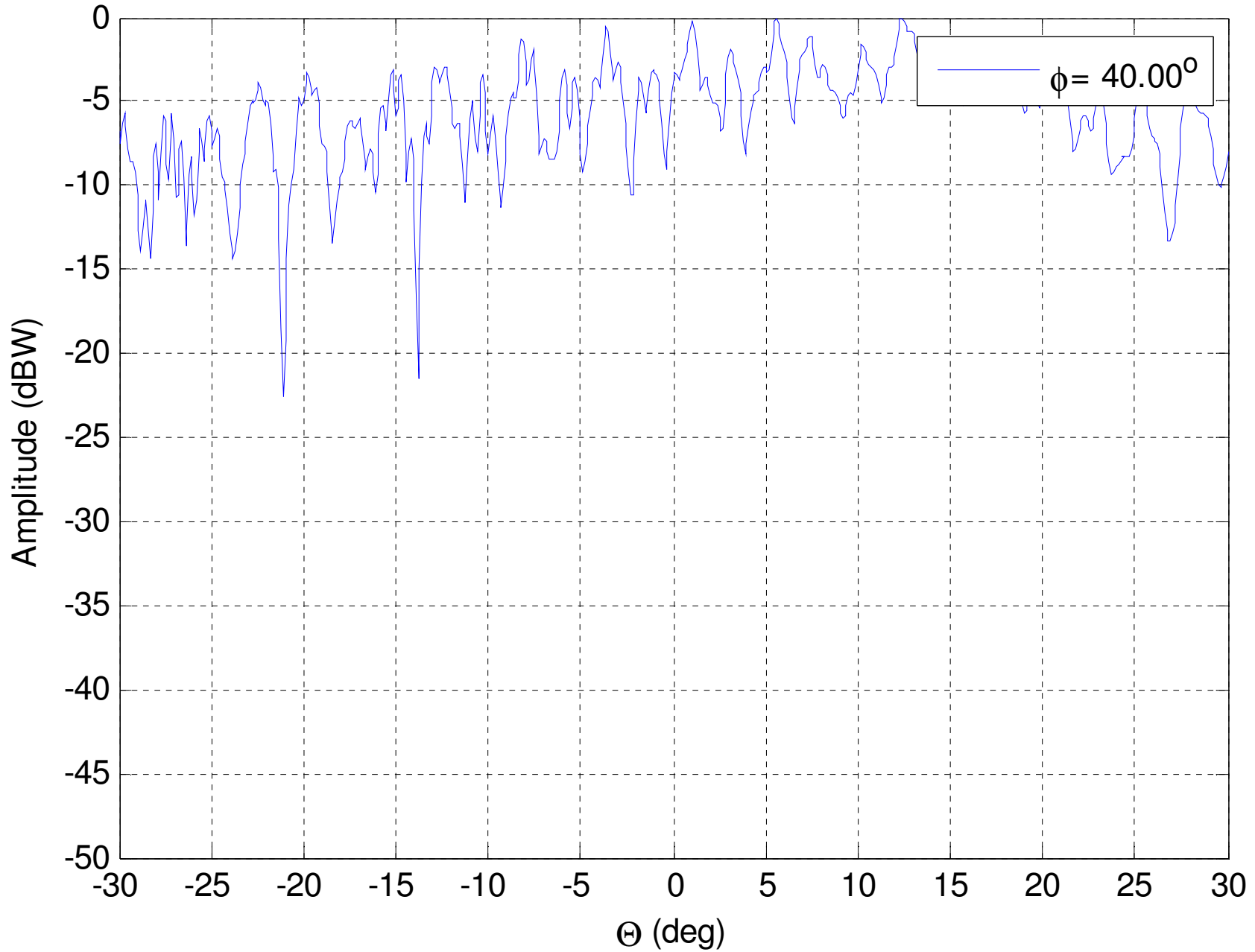
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp-30.cut, Peak: -2.20 dBW, Date: 06-Dec-2011



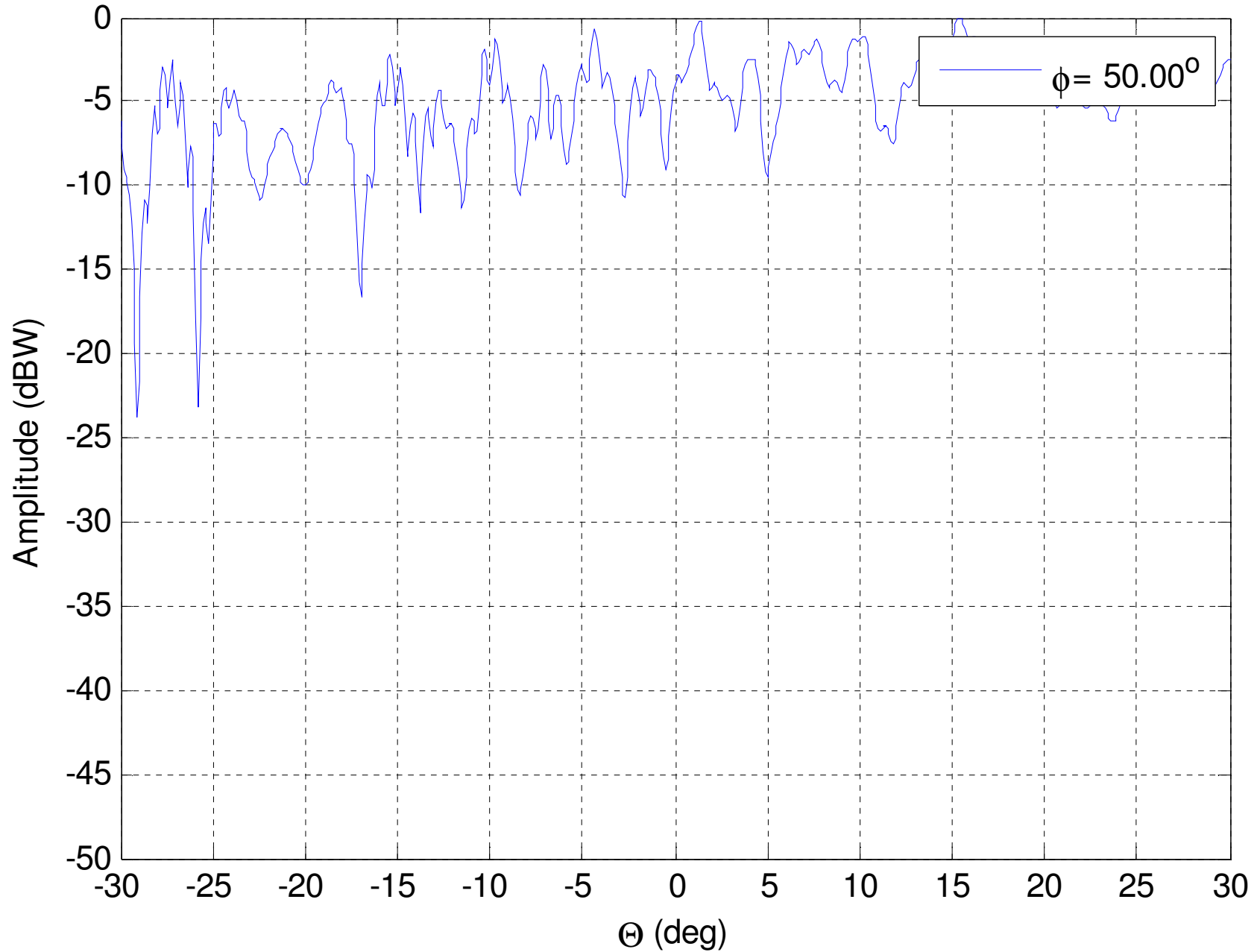
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp-40.cut, Peak: -2.33 dBW, Date: 06-Dec-2011



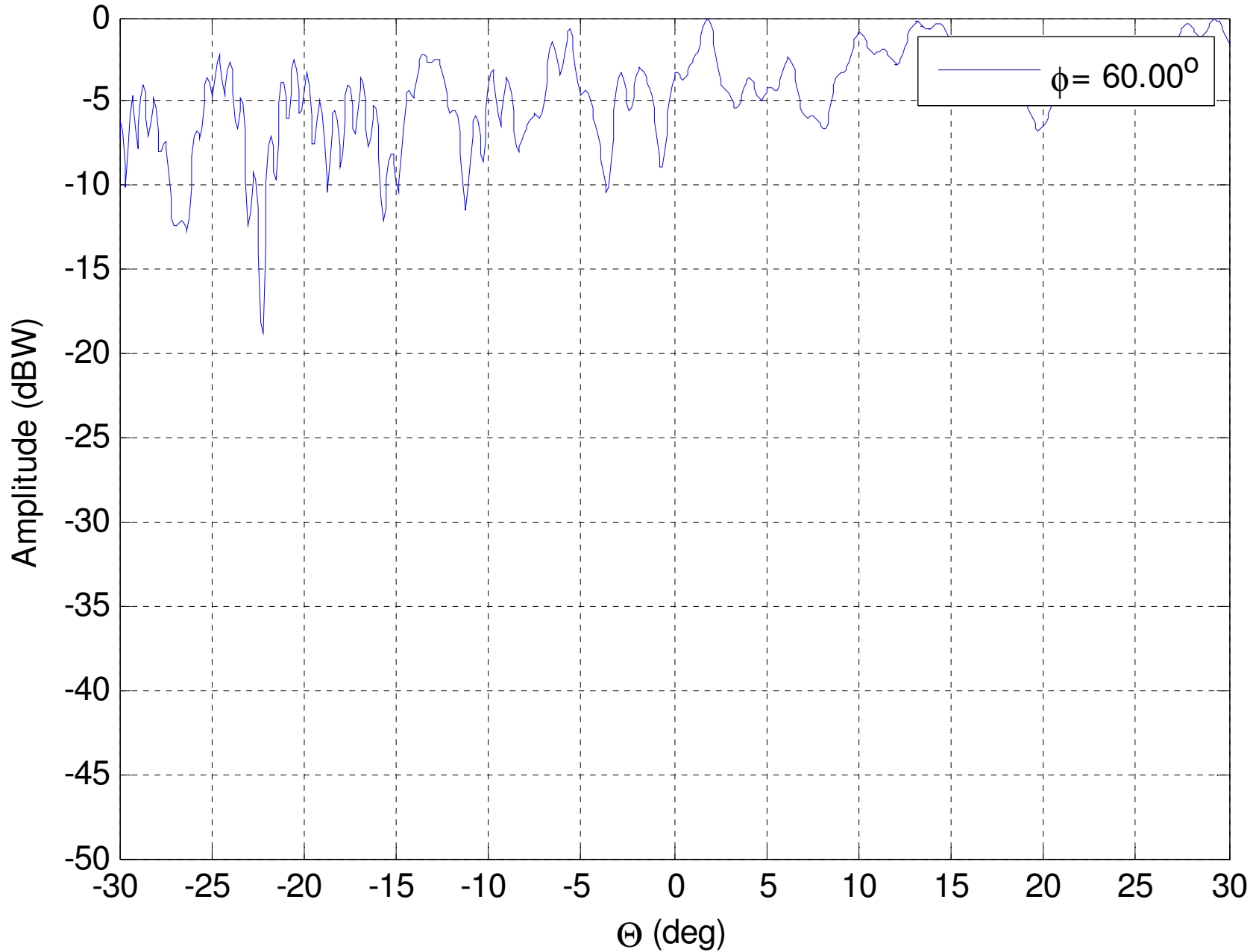
# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp-50.cut, Peak: -2.24 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

Input file: tx-17.3-rhcp-60.cut, Peak: -2.33 dBW, Date: 06-Dec-2011

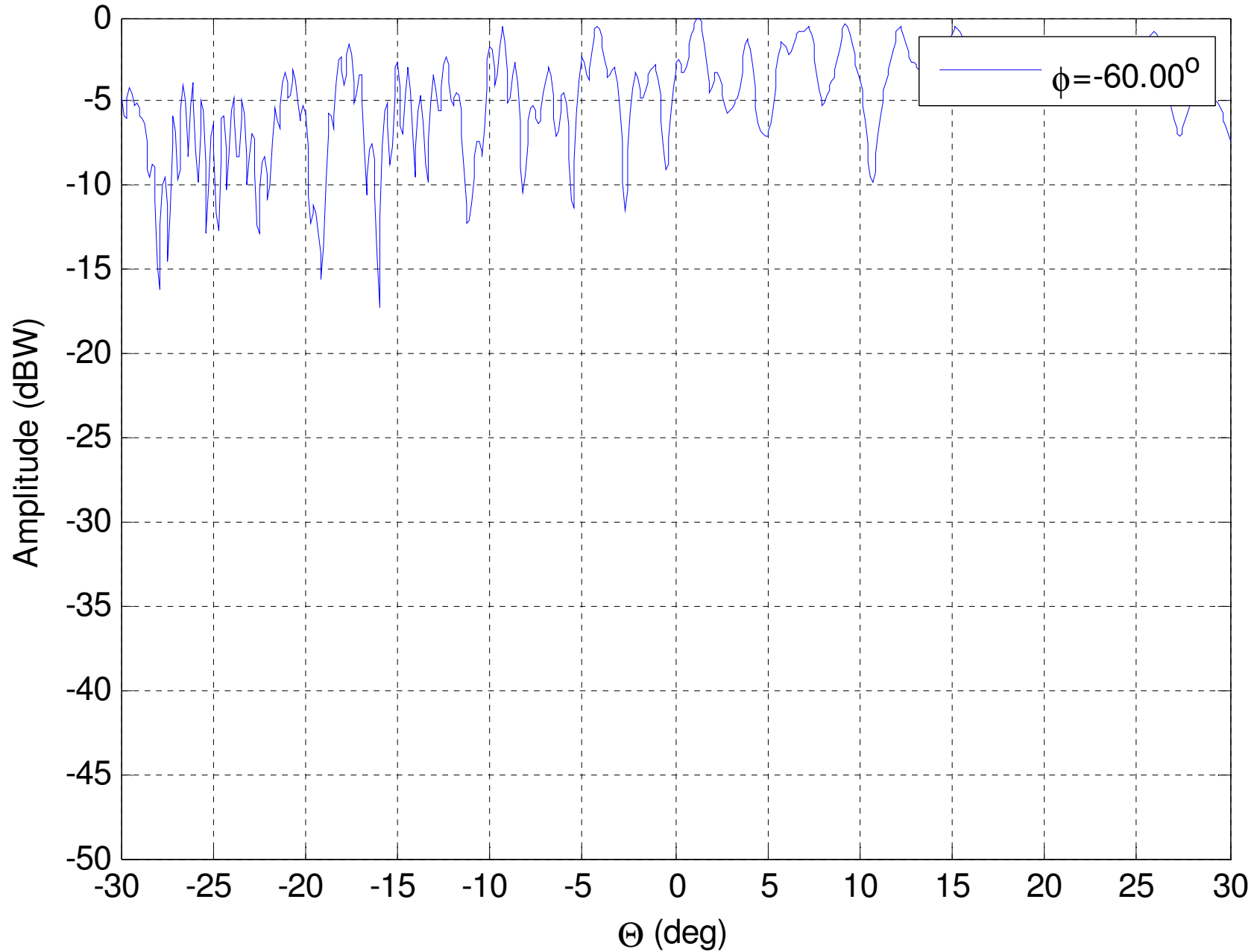




**LHCP at 17.3 GHz**

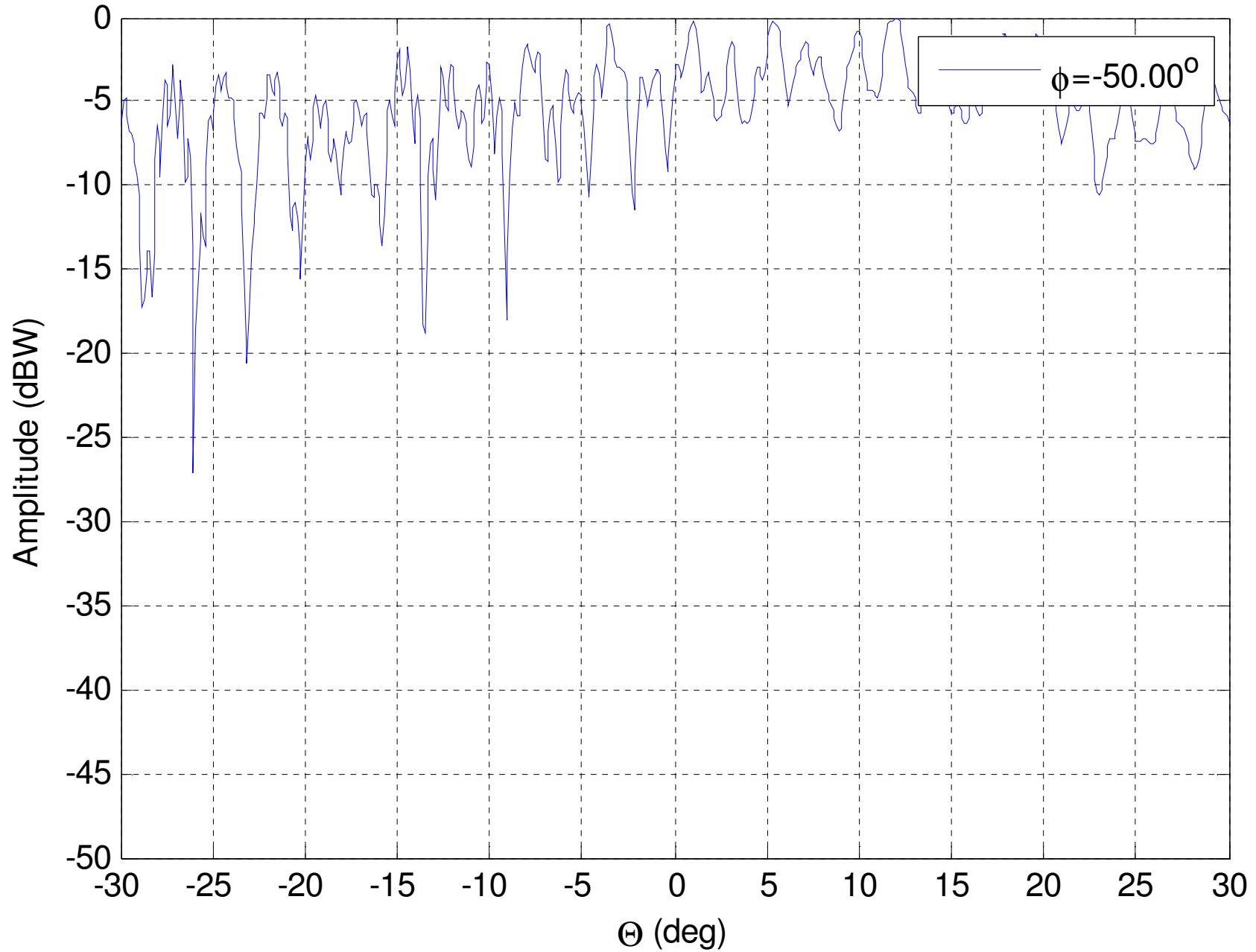
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp--60.cut, Peak: -2.75 dBW, Date: 06-Dec-2011



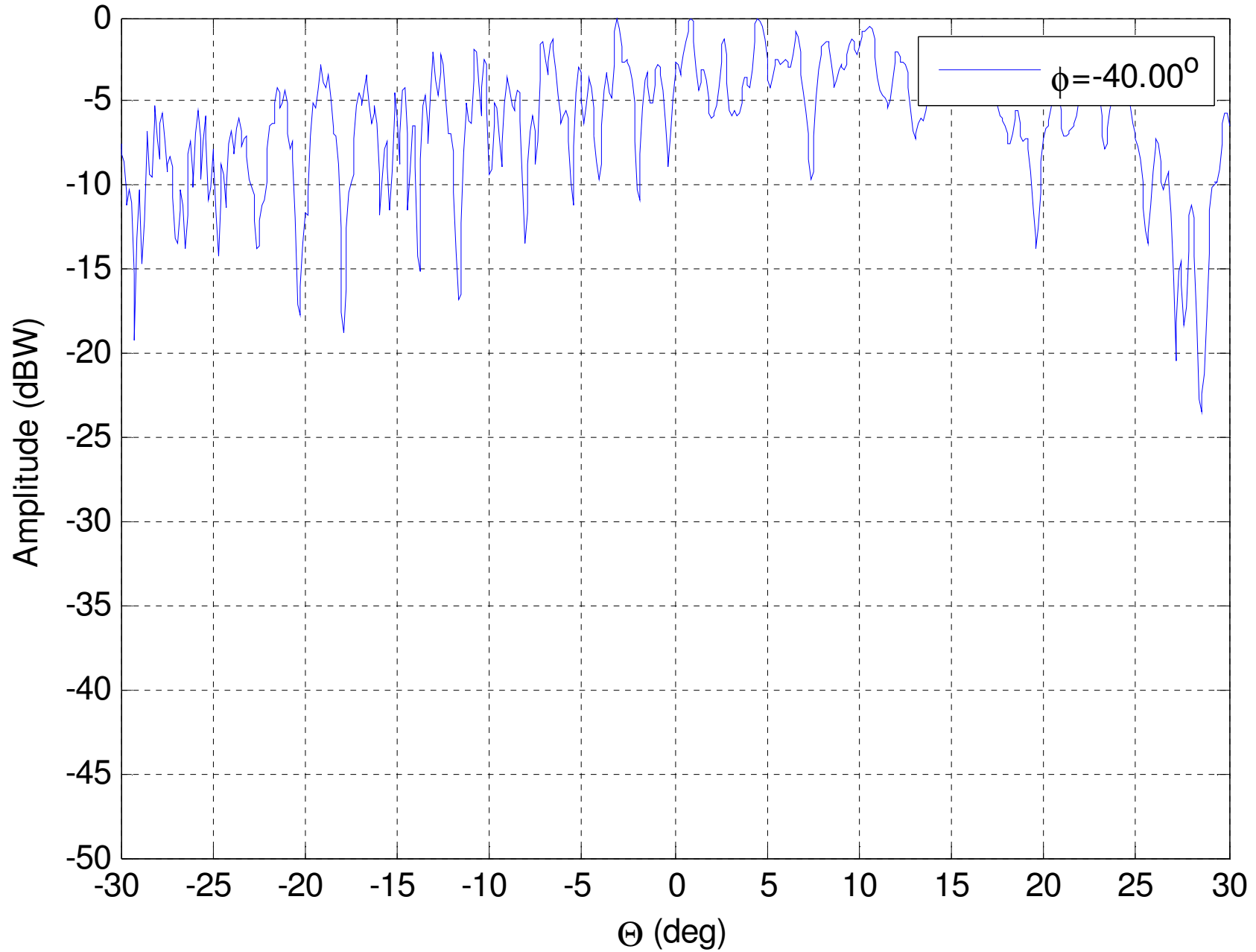
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp--50.cut, Peak: -2.54 dBW, Date: 06-Dec-2011



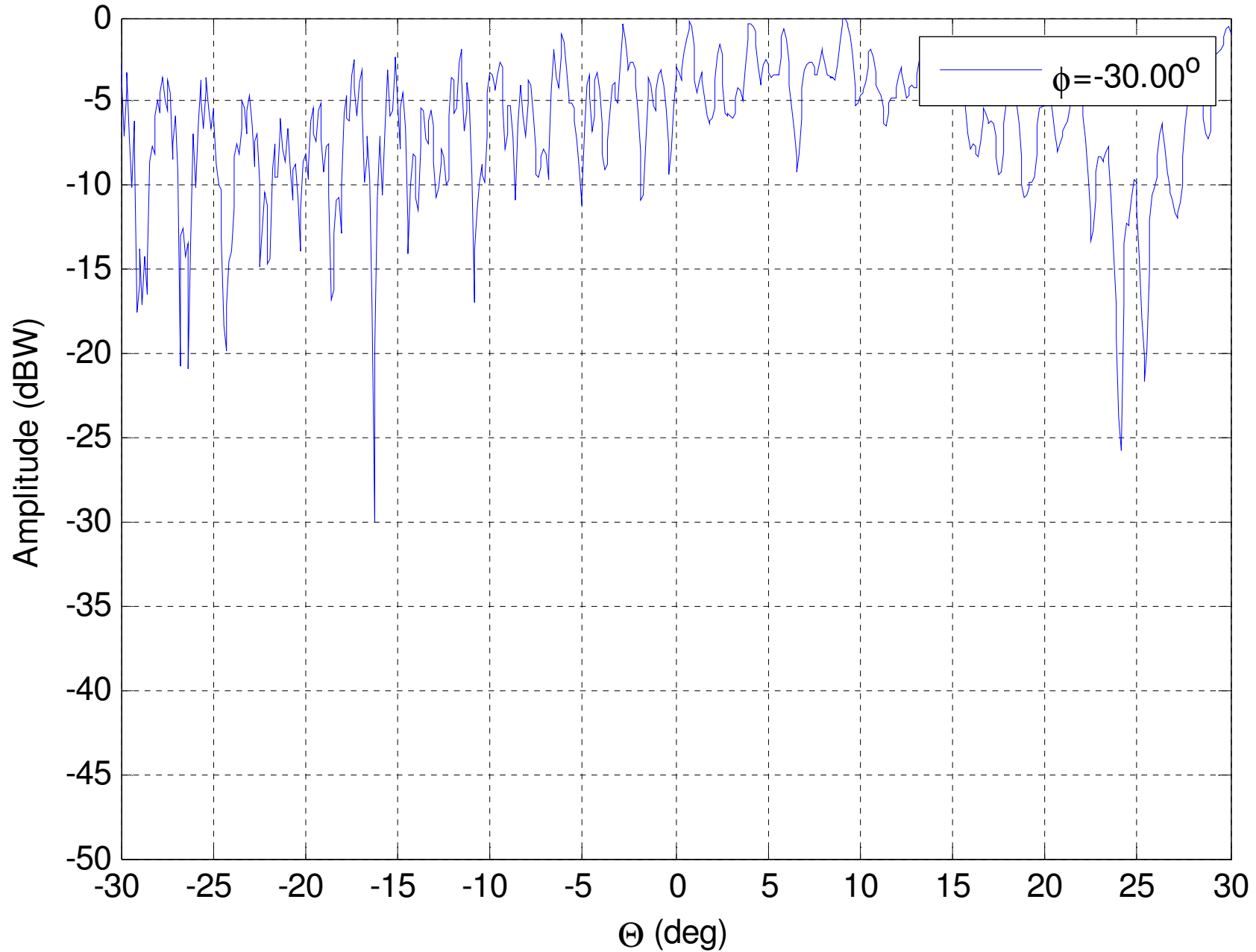
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp--40.cut, Peak: -2.67 dBW, Date: 06-Dec-2011



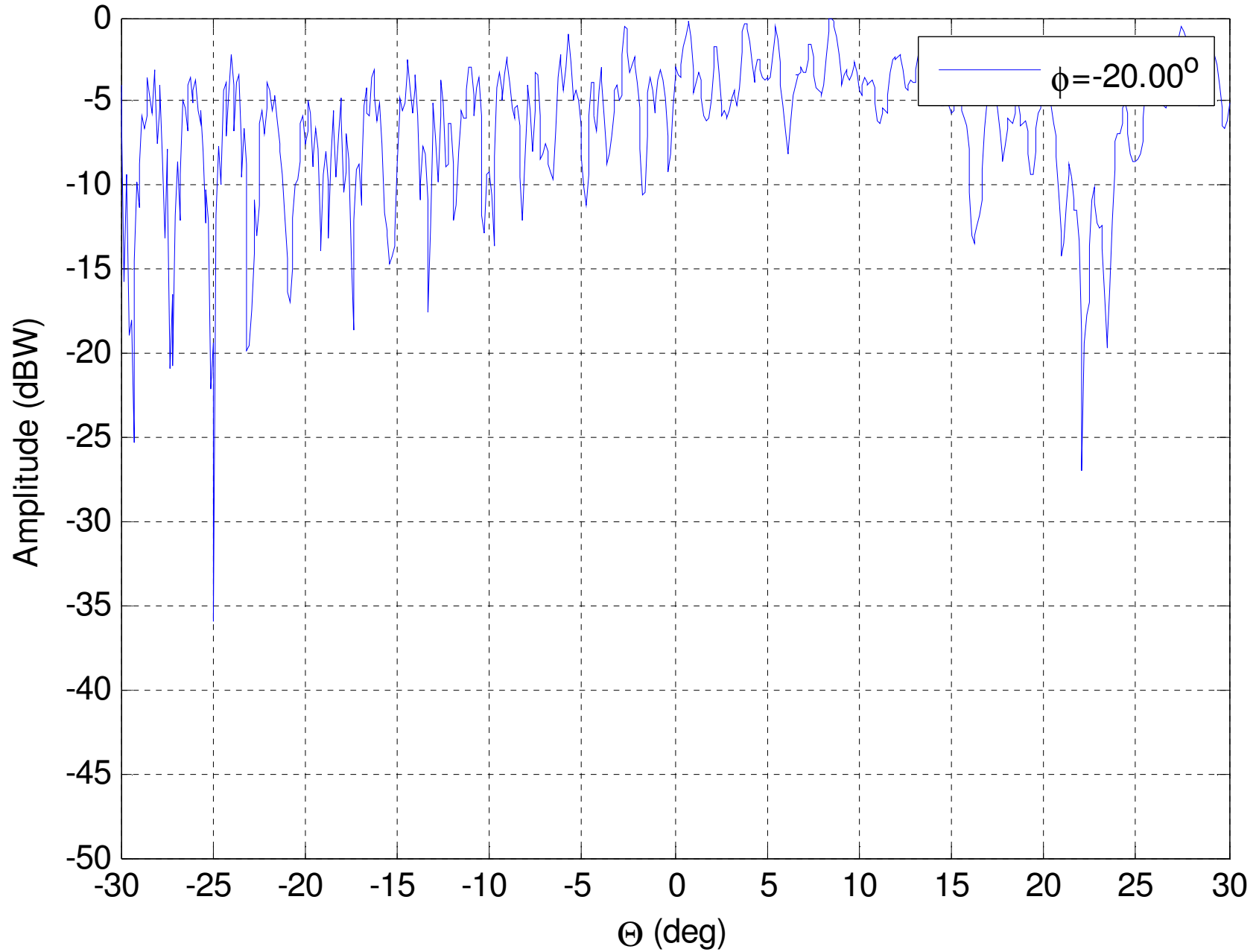
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp--30.cut, Peak: -2.39 dBW, Date: 06-Dec-2011



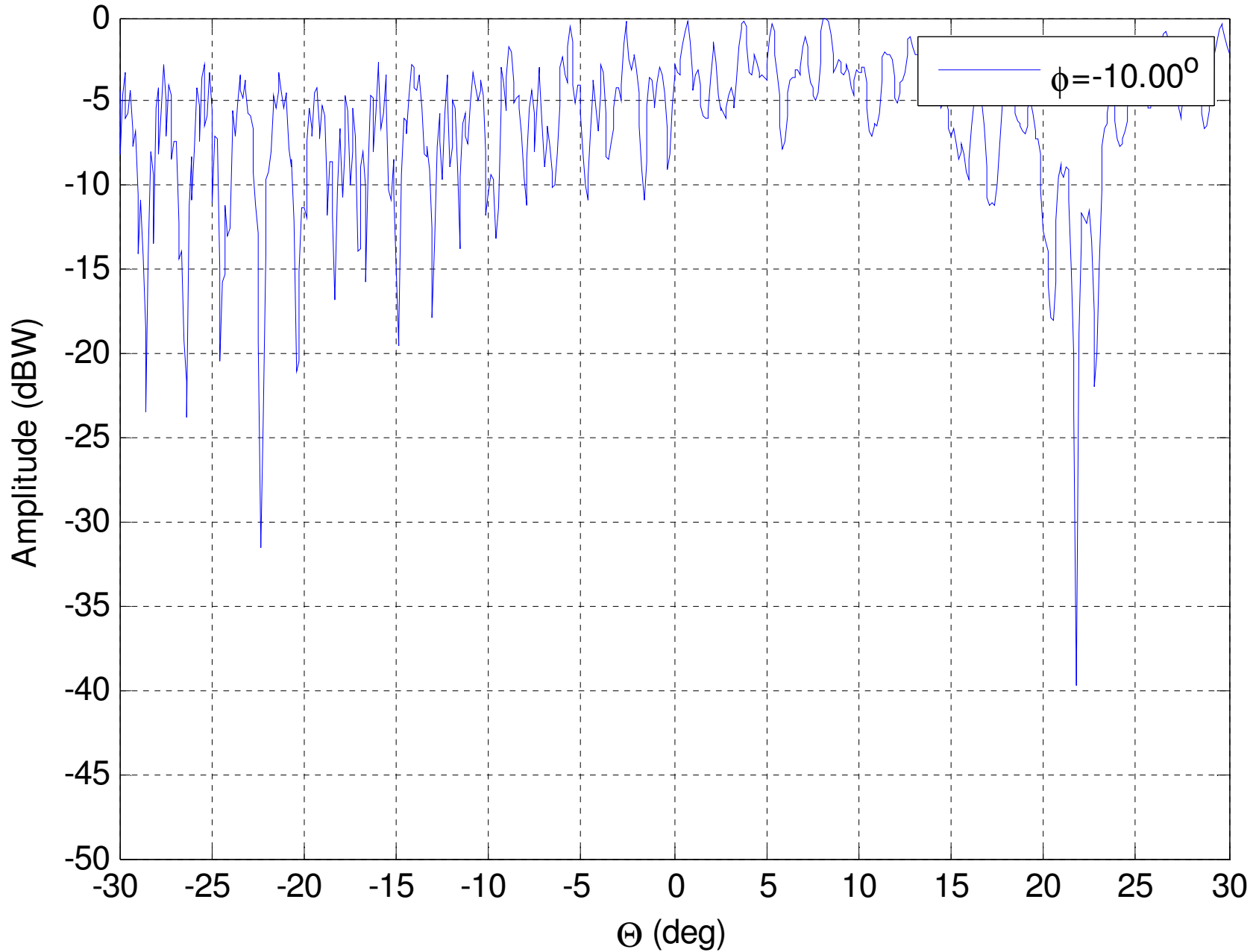
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp--20.cut, Peak: -2.39 dBW, Date: 06-Dec-2011



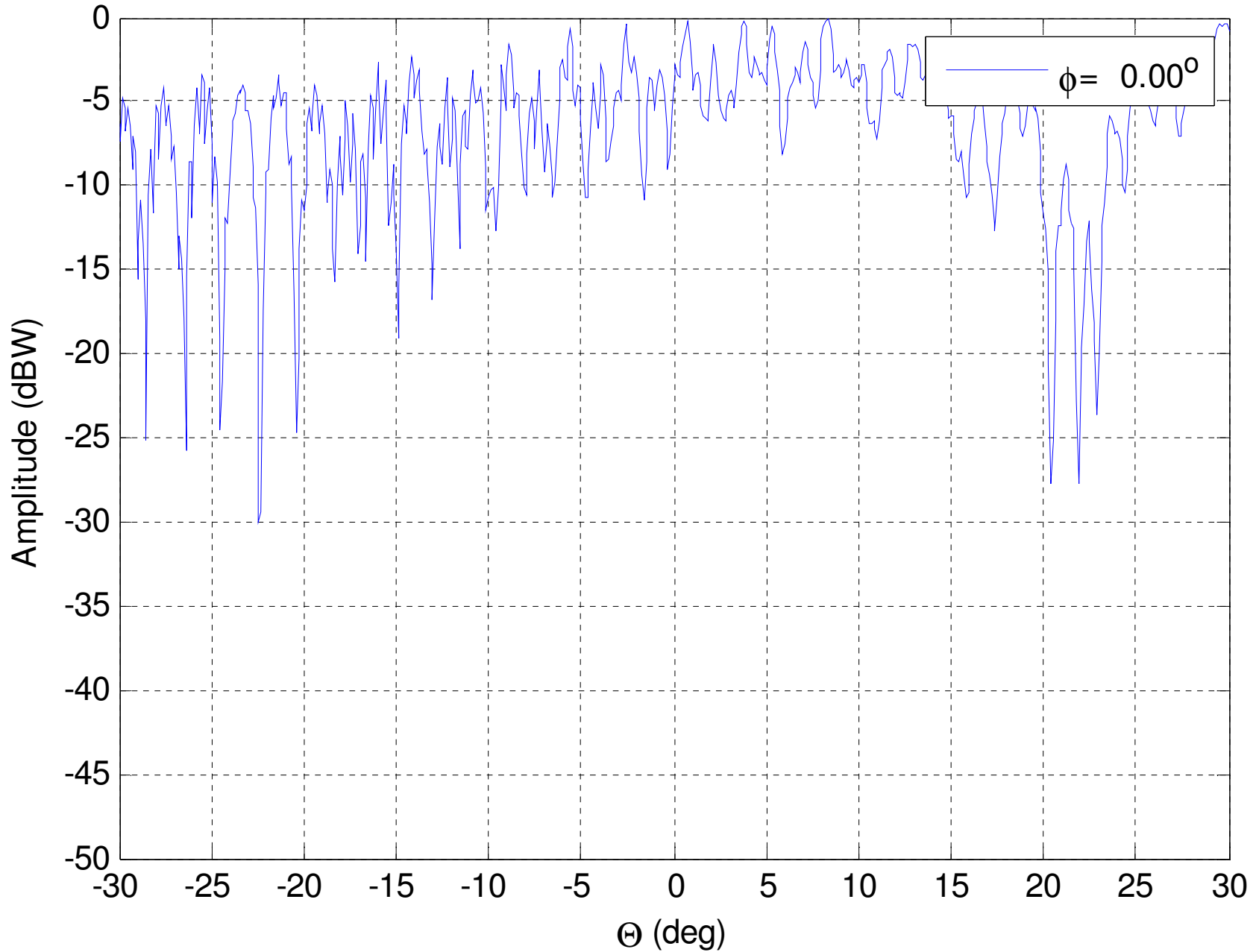
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp--10.cut, Peak: -2.53 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

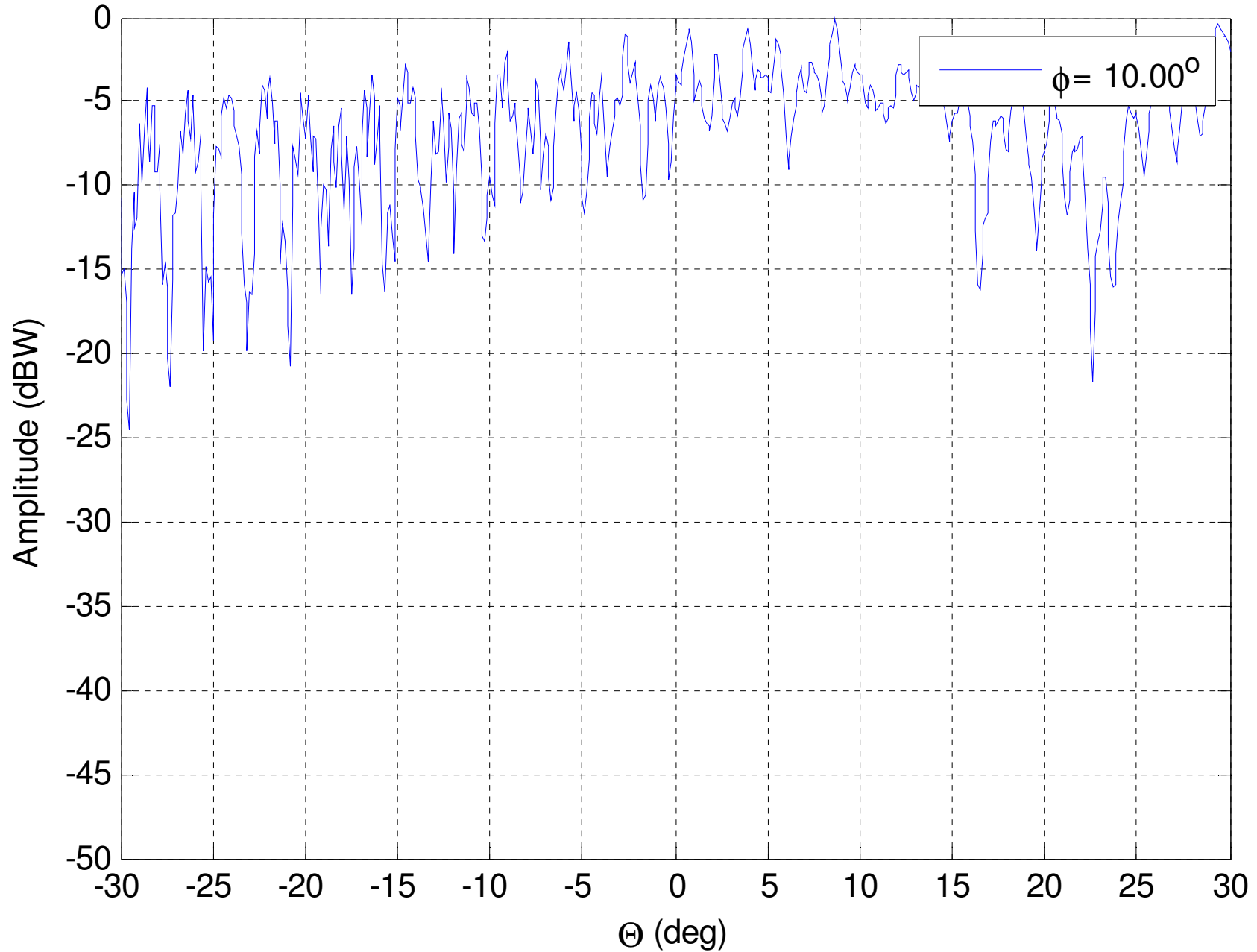
Input file: tx-17.3-lhcp-0.cut, Peak: -2.43 dBW, Date: 06-Dec-2011





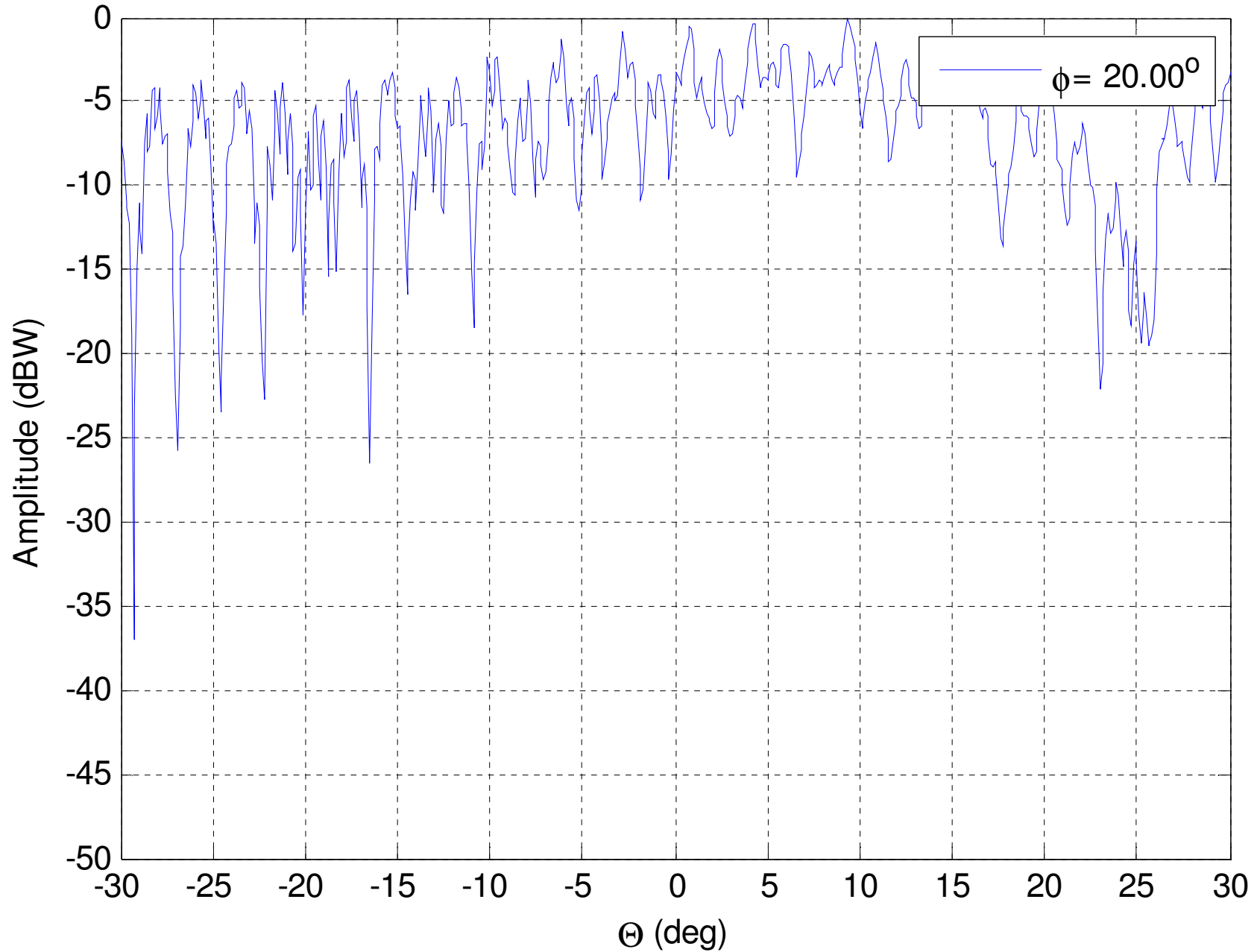
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp-10.cut, Peak: -1.92 dBW, Date: 06-Dec-2011



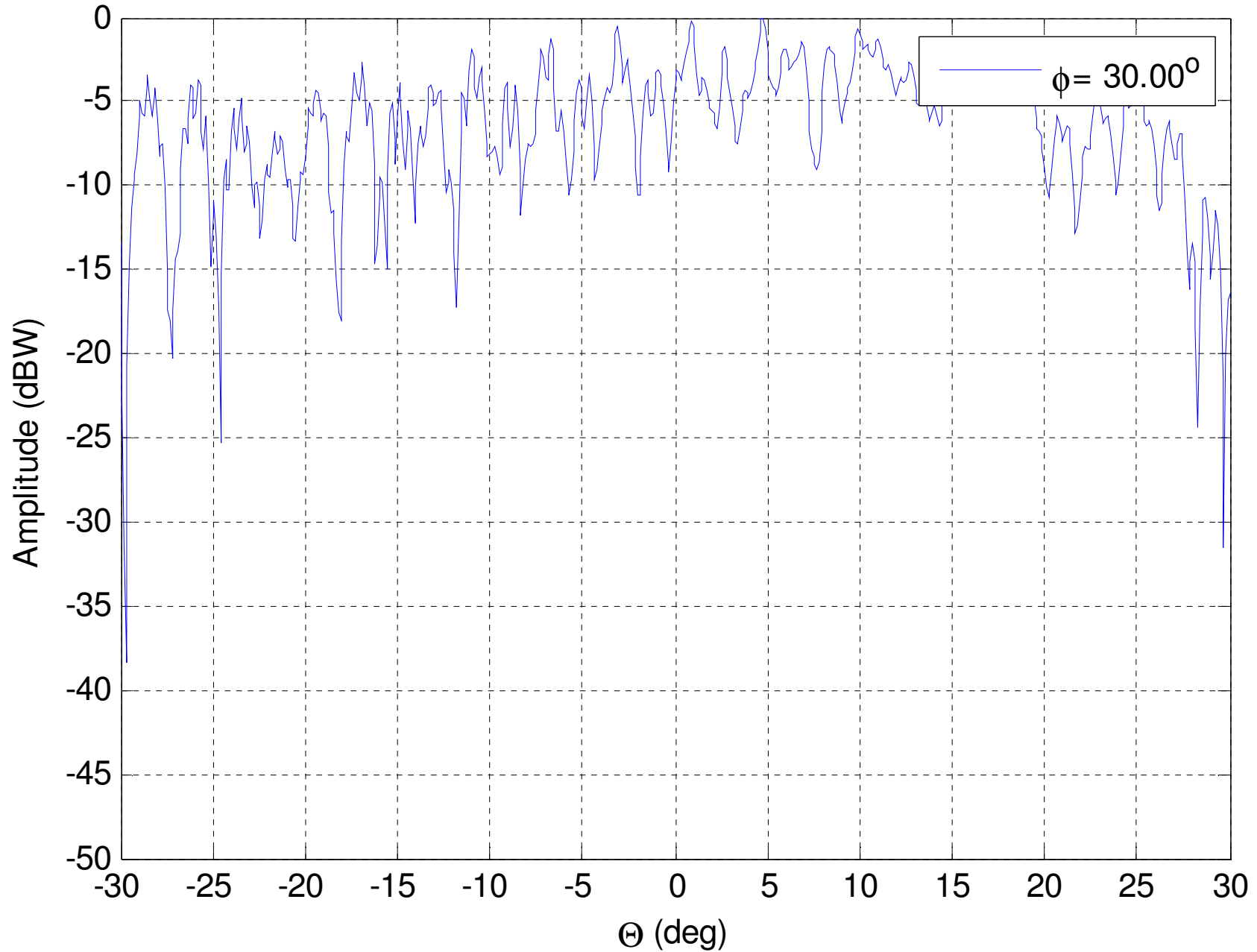
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp-20.cut, Peak: -2.05 dBW, Date: 06-Dec-2011



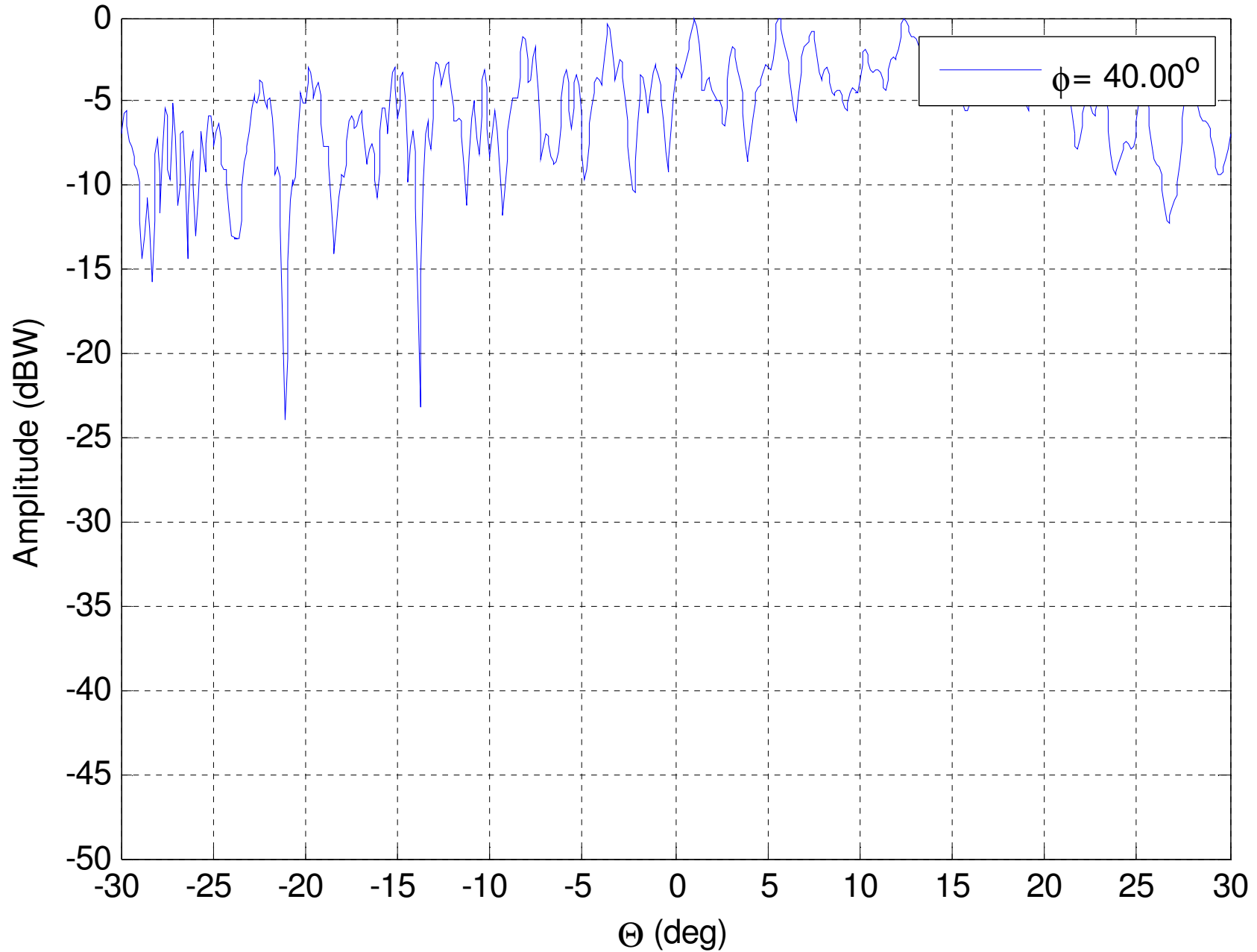
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp-30.cut, Peak: -2.22 dBW, Date: 06-Dec-2011



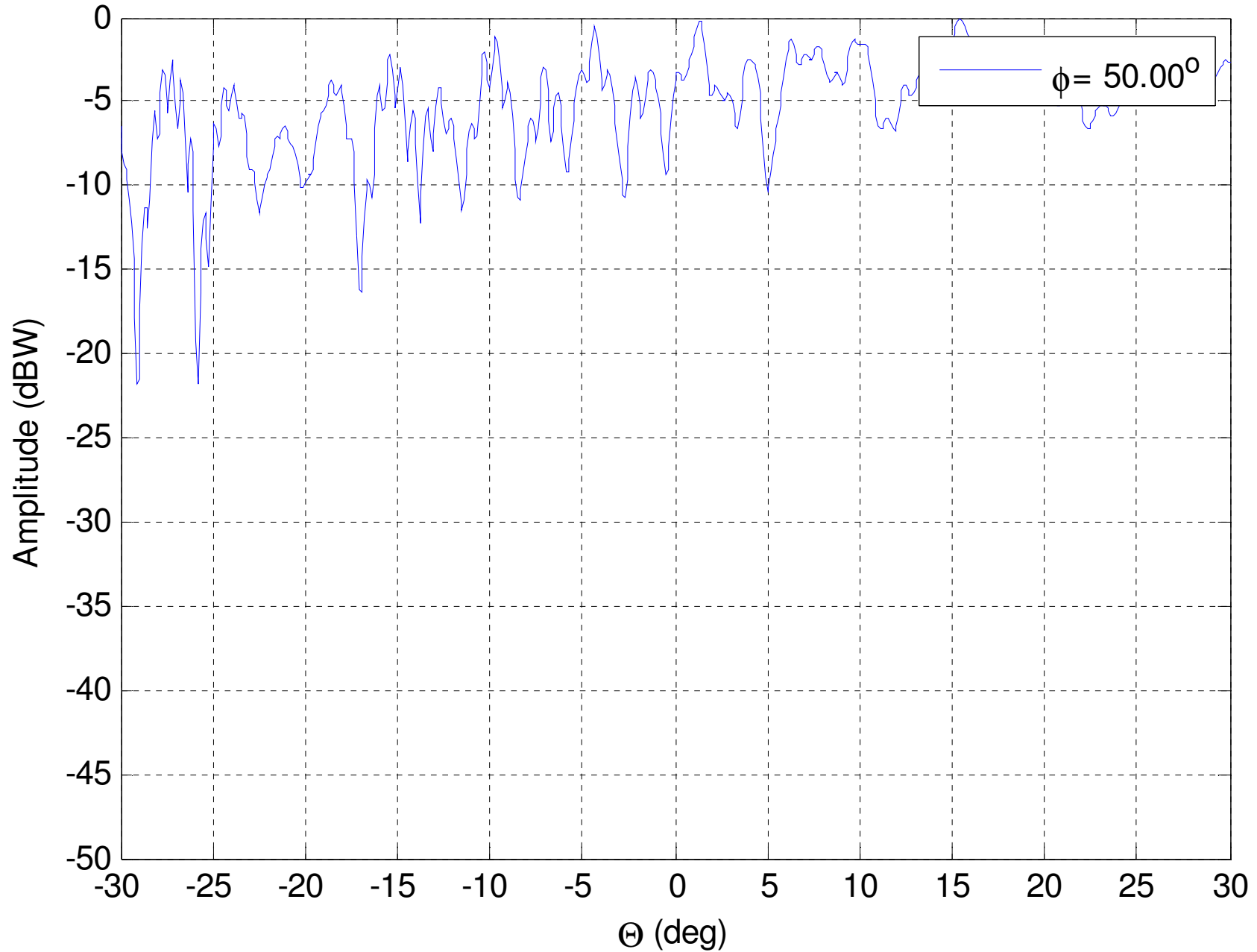
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp-40.cut, Peak: -2.40 dBW, Date: 06-Dec-2011



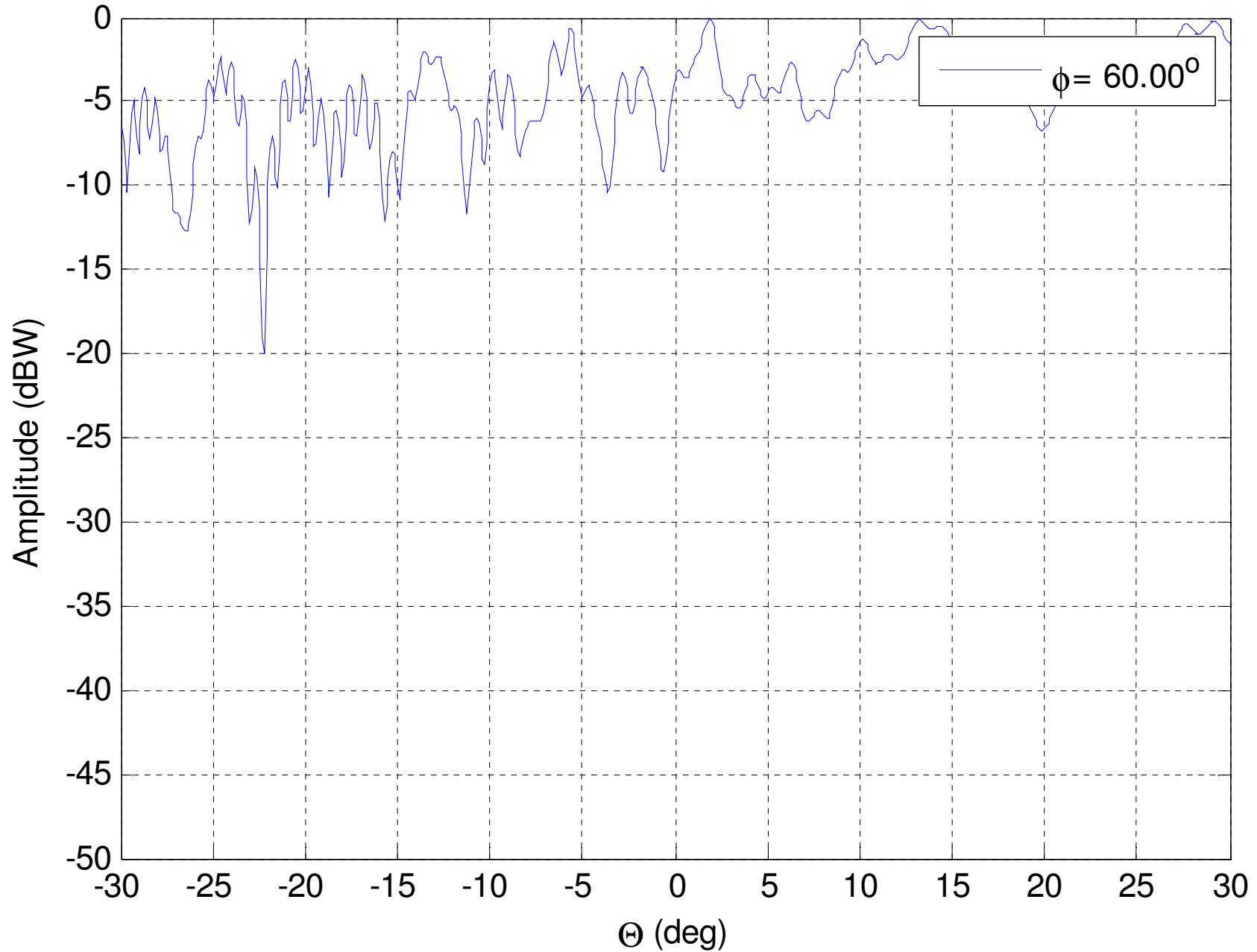
# Normalized pattern cuts - farfield

Input file: tx-17.3-lhcp-50.cut, Peak: -2.14 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

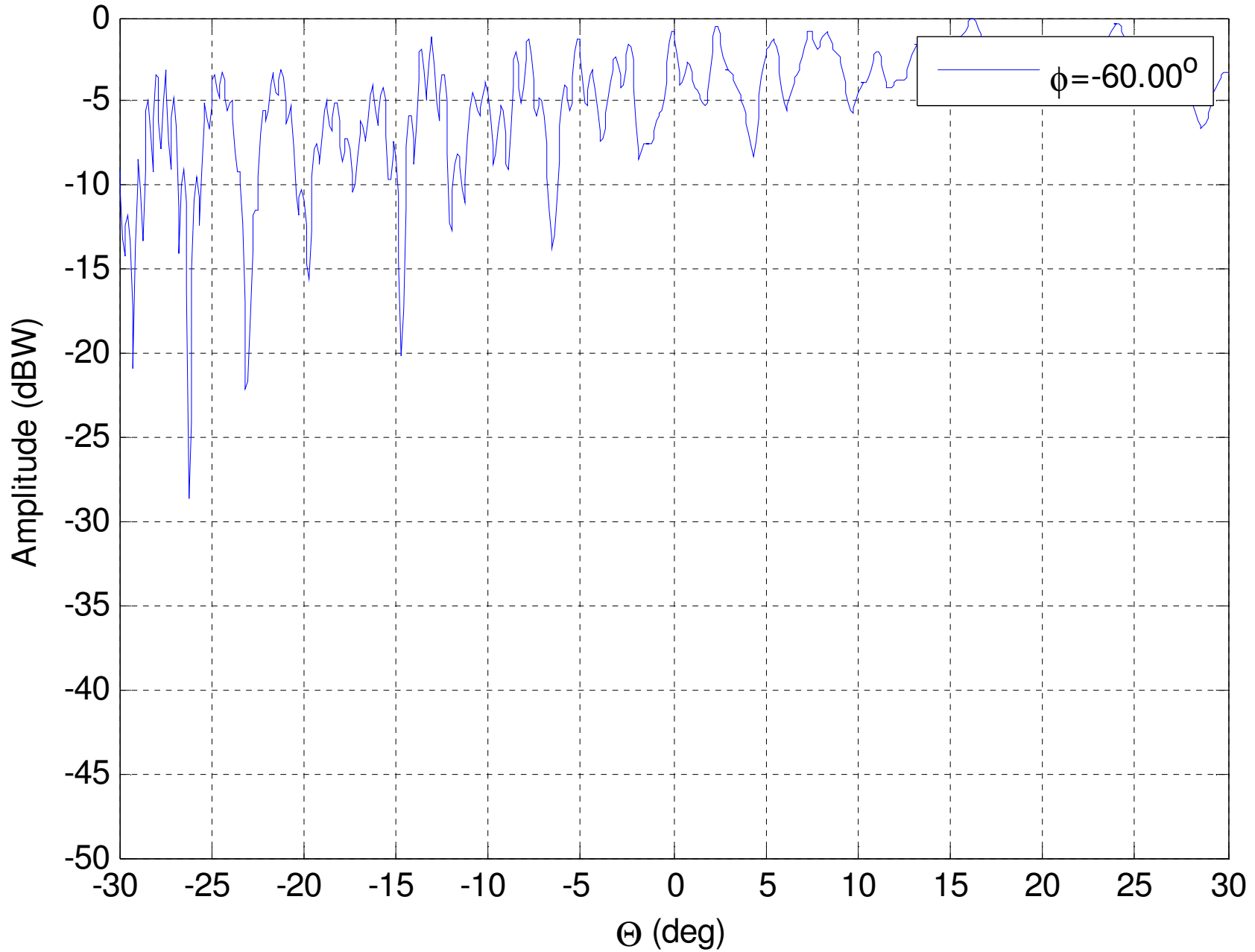
Input file: tx-17.3-lhcp-60.cut, Peak: -2.28 dBW, Date: 06-Dec-2011



RHCP at 17.5 GHz

# Normalized pattern cuts - farfield

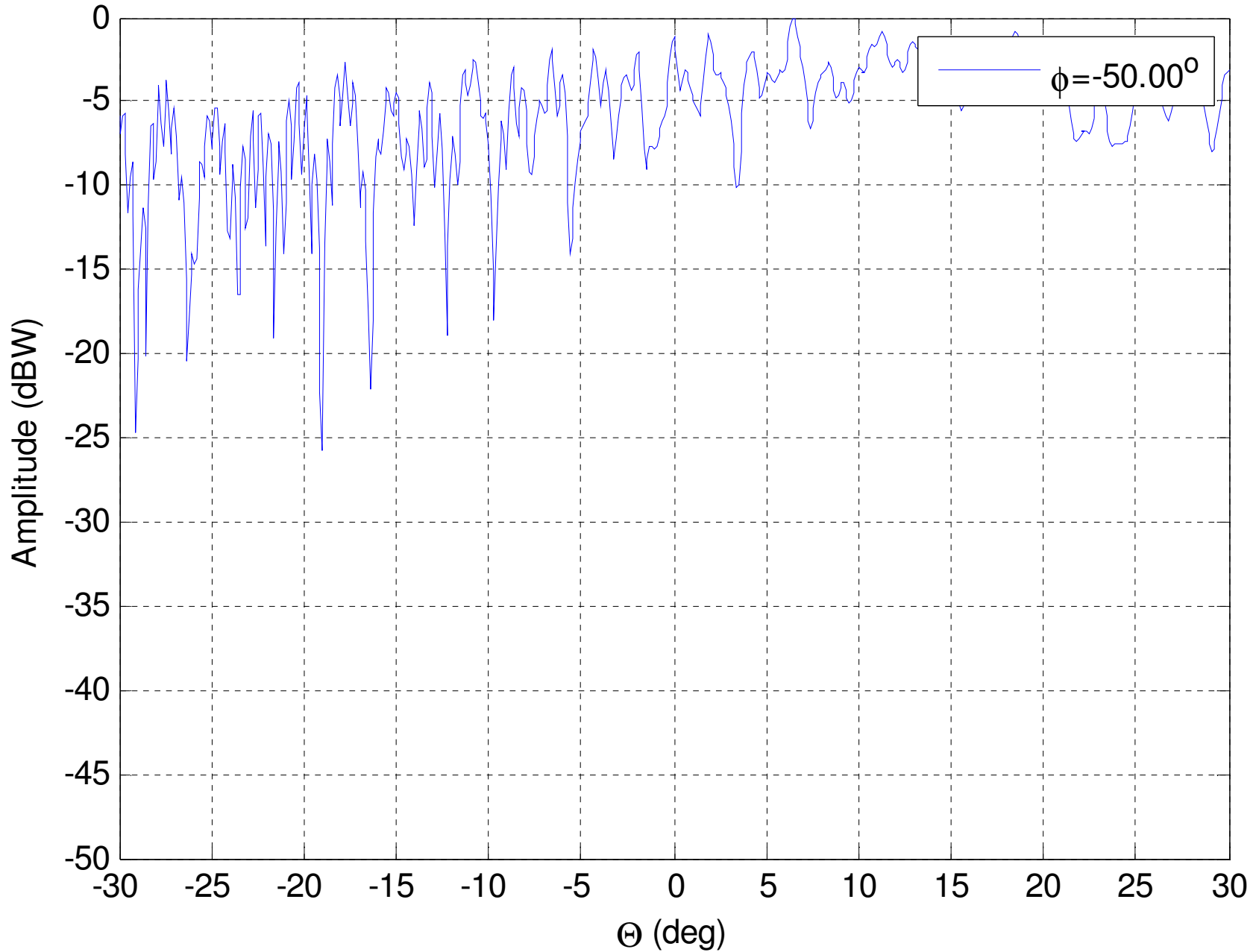
Input file: tx-17.5-rhcp--60.cut, Peak: -2.57 dBW, Date: 06-Dec-2011





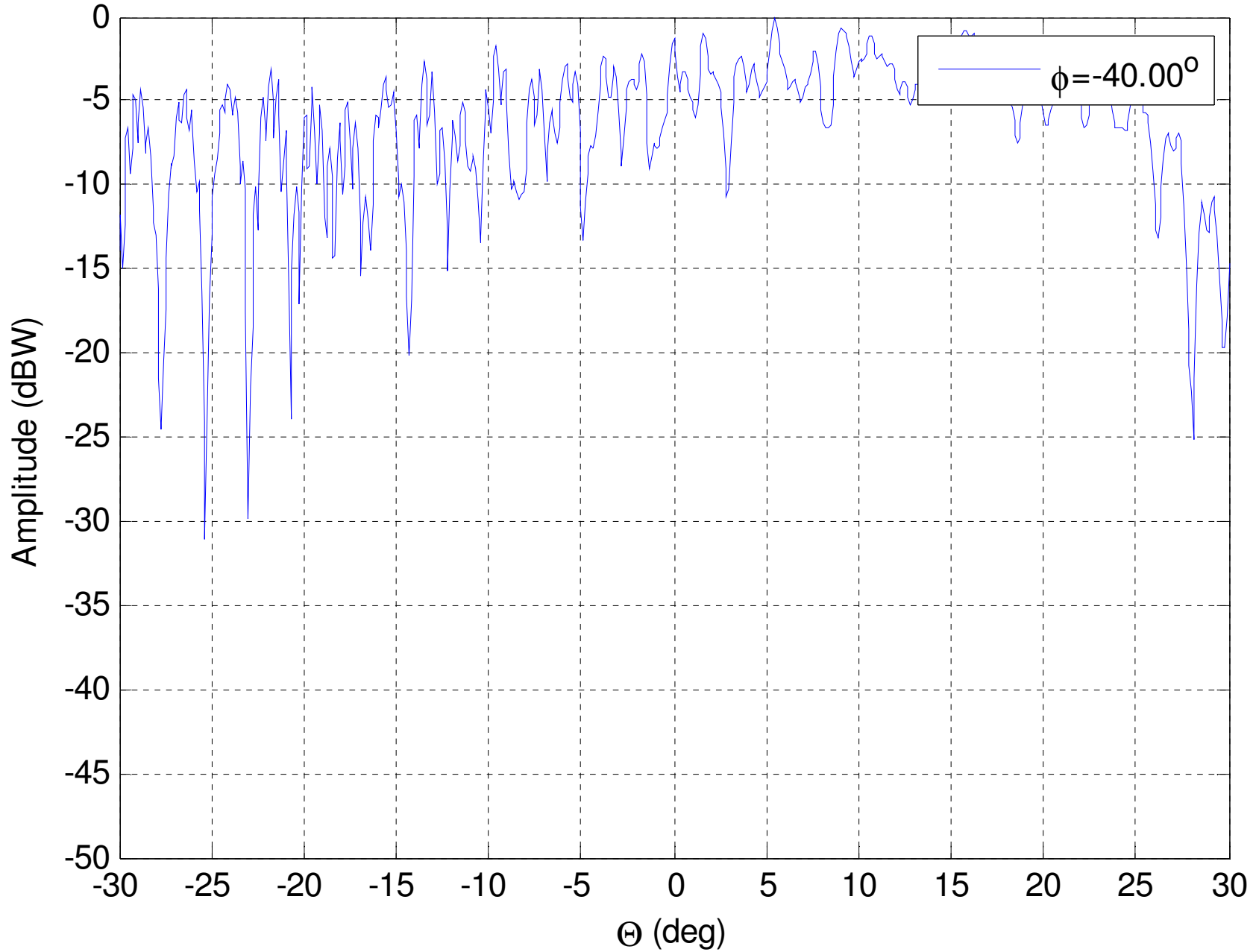
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp--50.cut, Peak: -2.15 dBW, Date: 06-Dec-2011



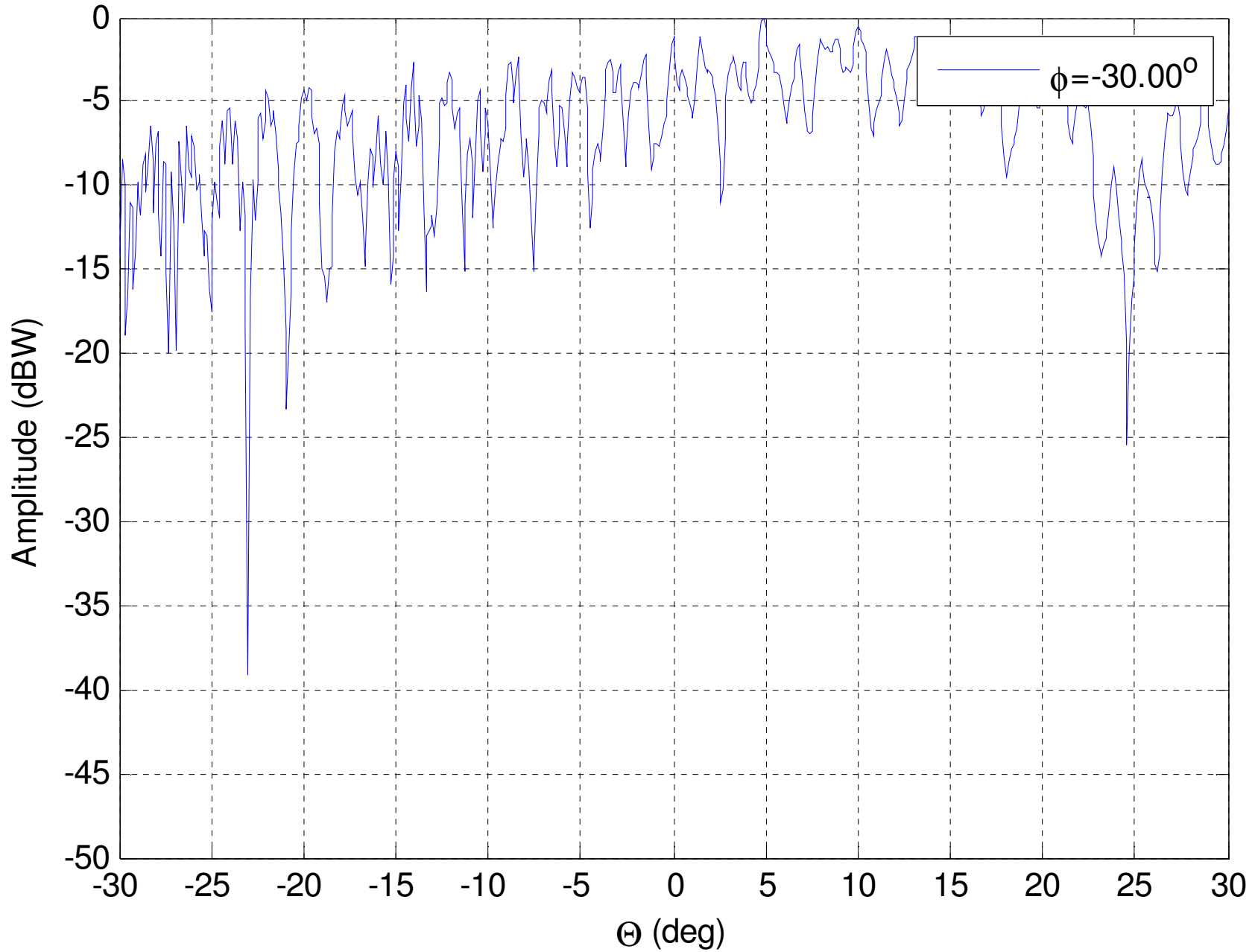
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp--40.cut, Peak: -2.11 dBW, Date: 06-Dec-2011



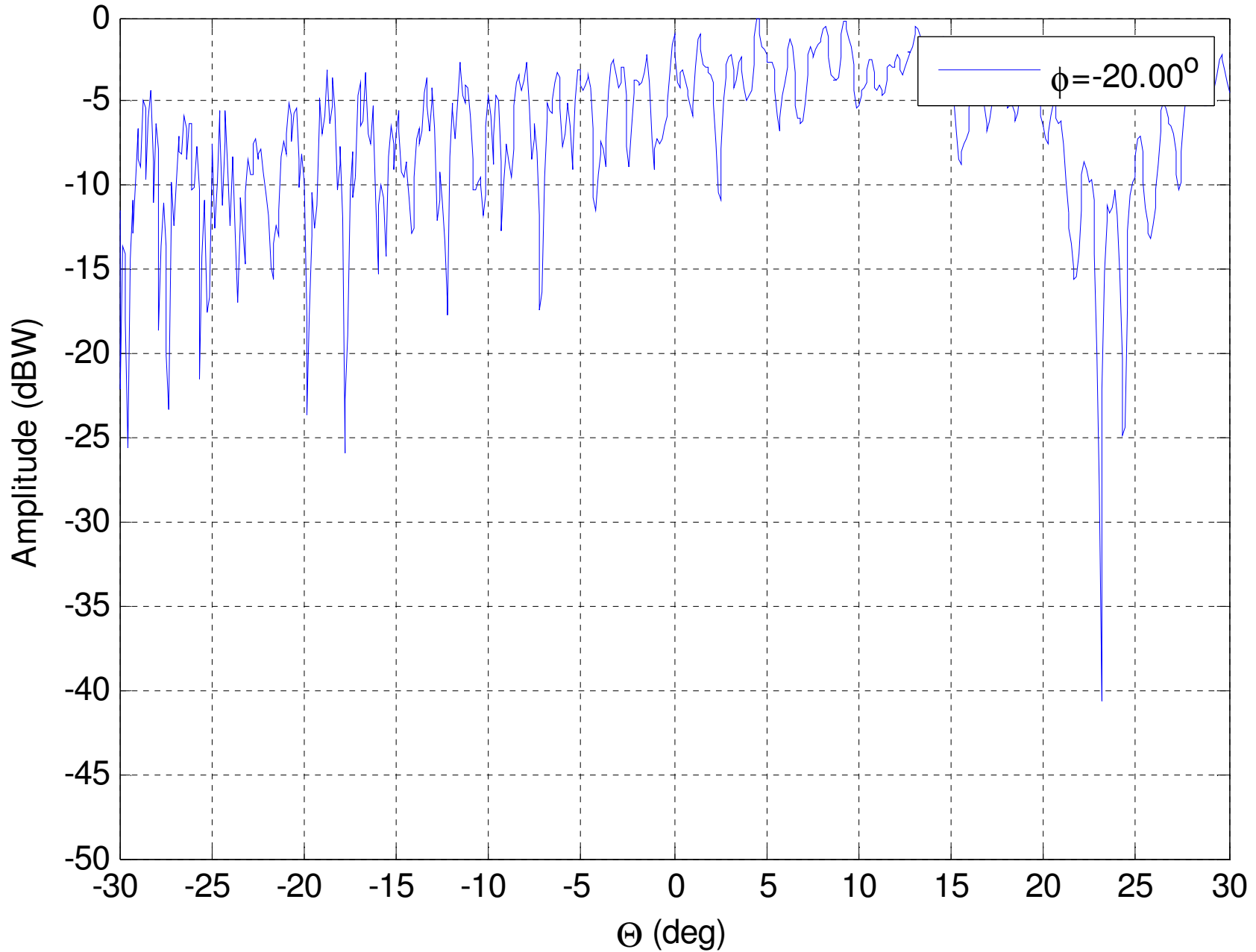
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp--30.cut, Peak: -2.14 dBW, Date: 06-Dec-2011



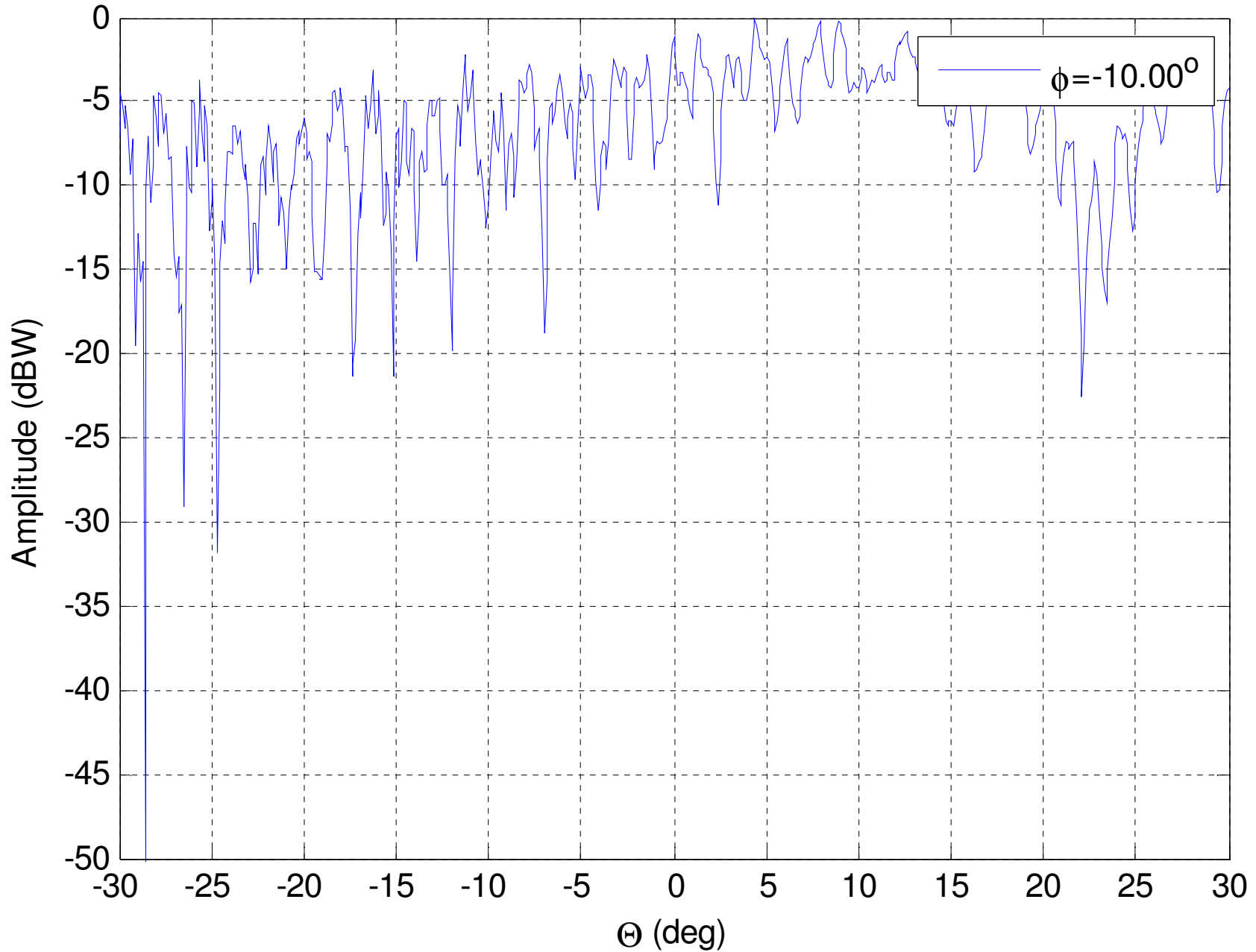
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp--20.cut, Peak: -2.28 dBW, Date: 06-Dec-2011



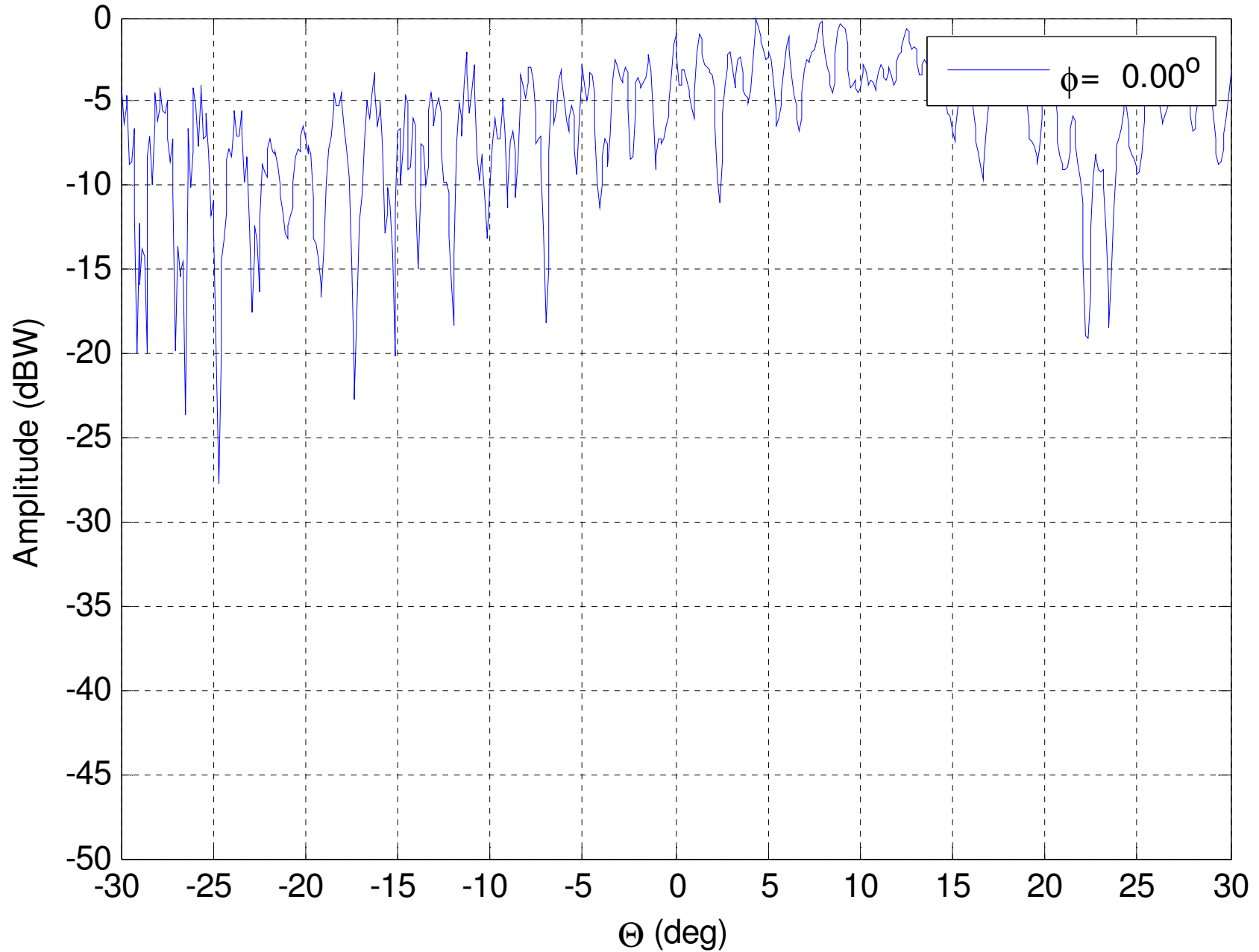
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp--10.cut, Peak: -2.25 dBW, Date: 06-Dec-2011



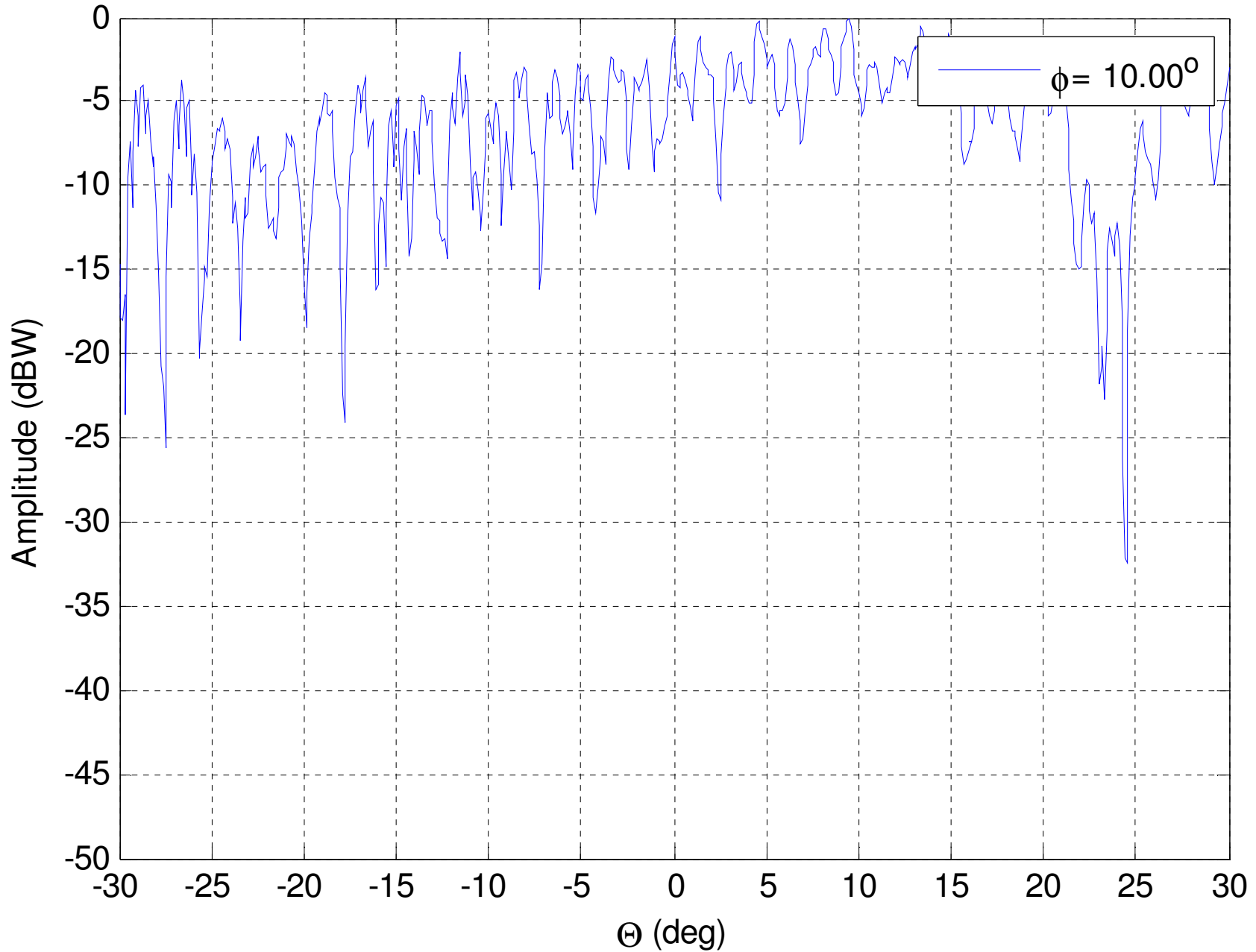
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp-0.cut, Peak: -2.31 dBW, Date: 06-Dec-2011



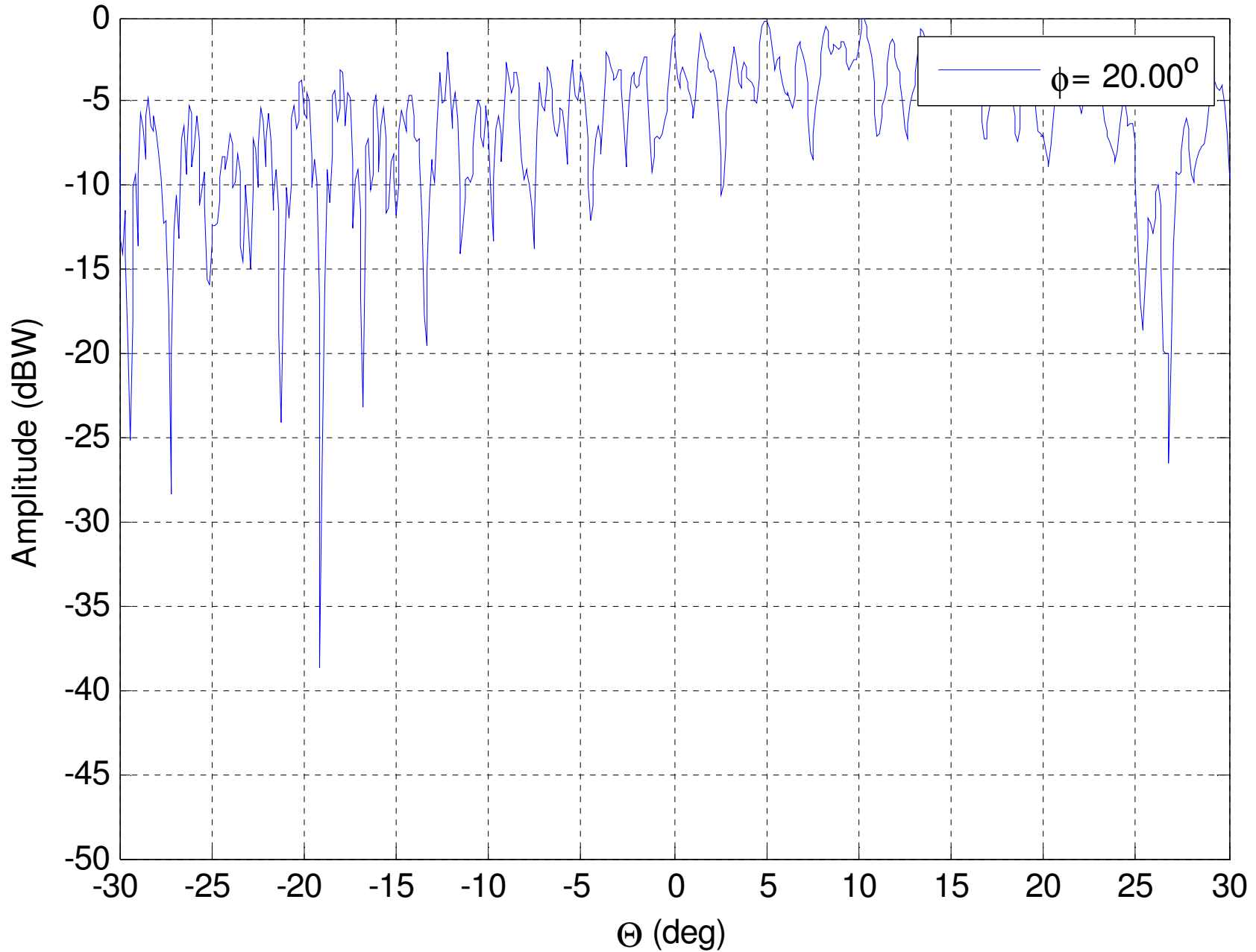
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp-10.cut, Peak: -2.20 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

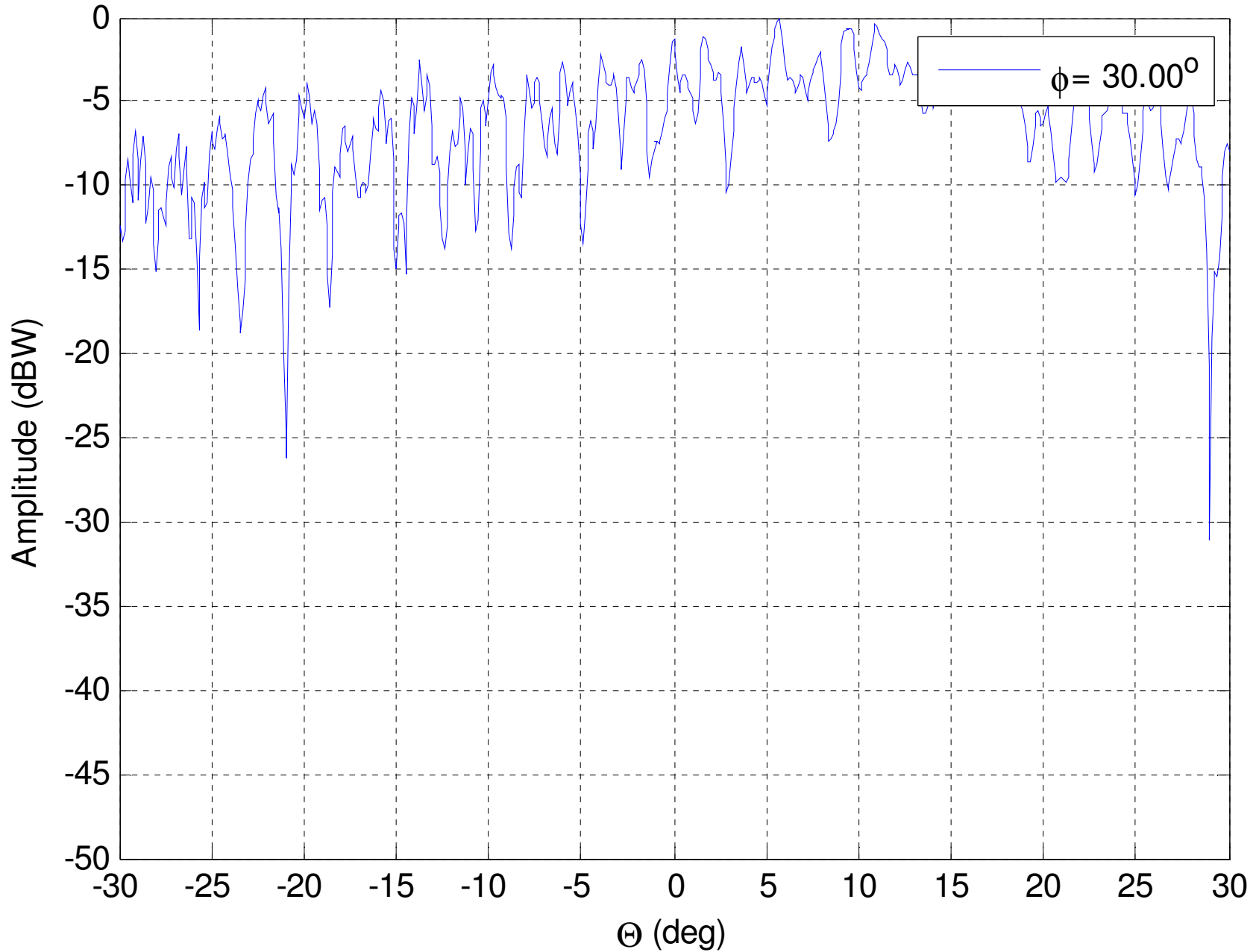
Input file: tx-17.5-rhcp-20.cut, Peak: -2.39 dBW, Date: 06-Dec-2011





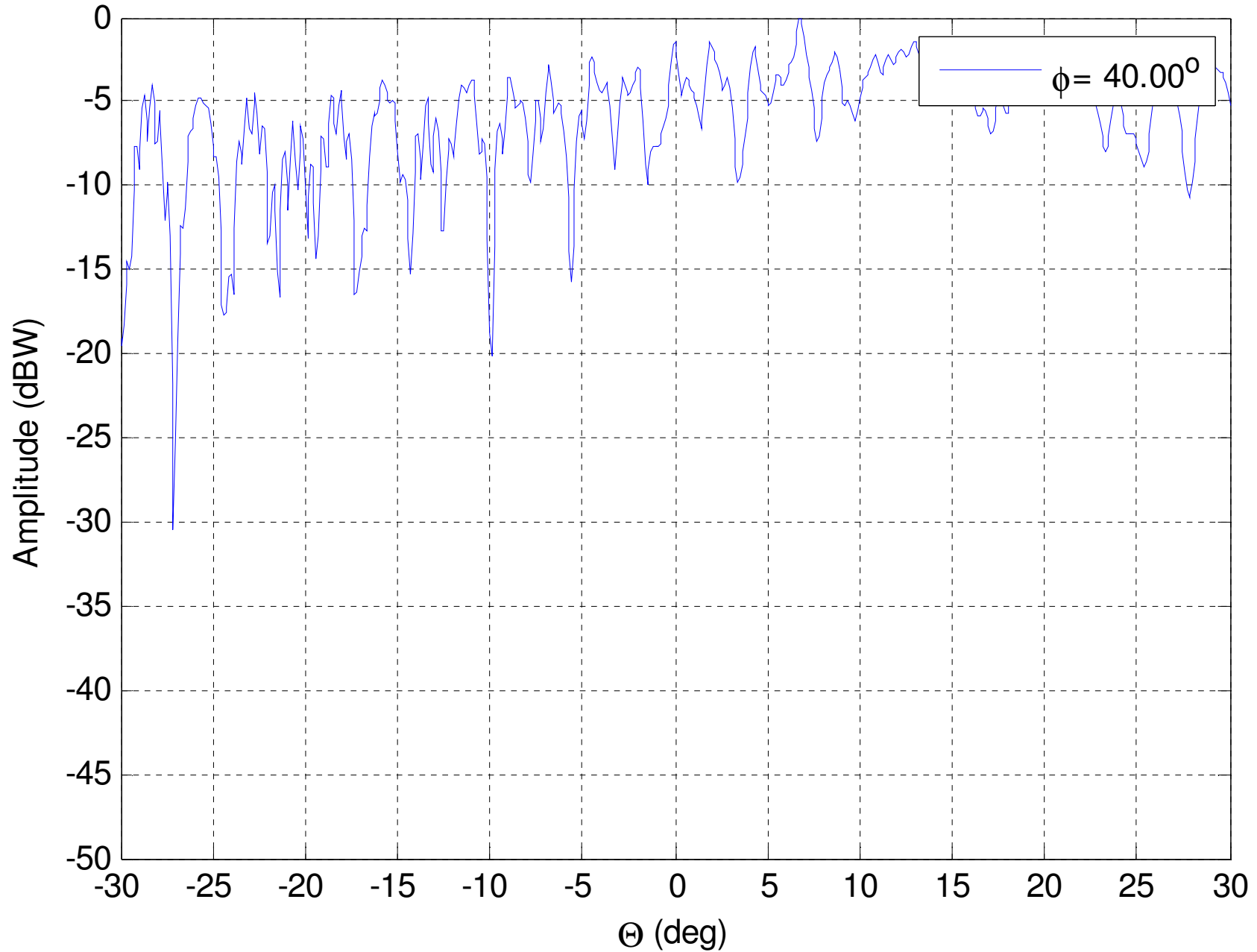
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp-30.cut, Peak: -2.12 dBW, Date: 06-Dec-2011



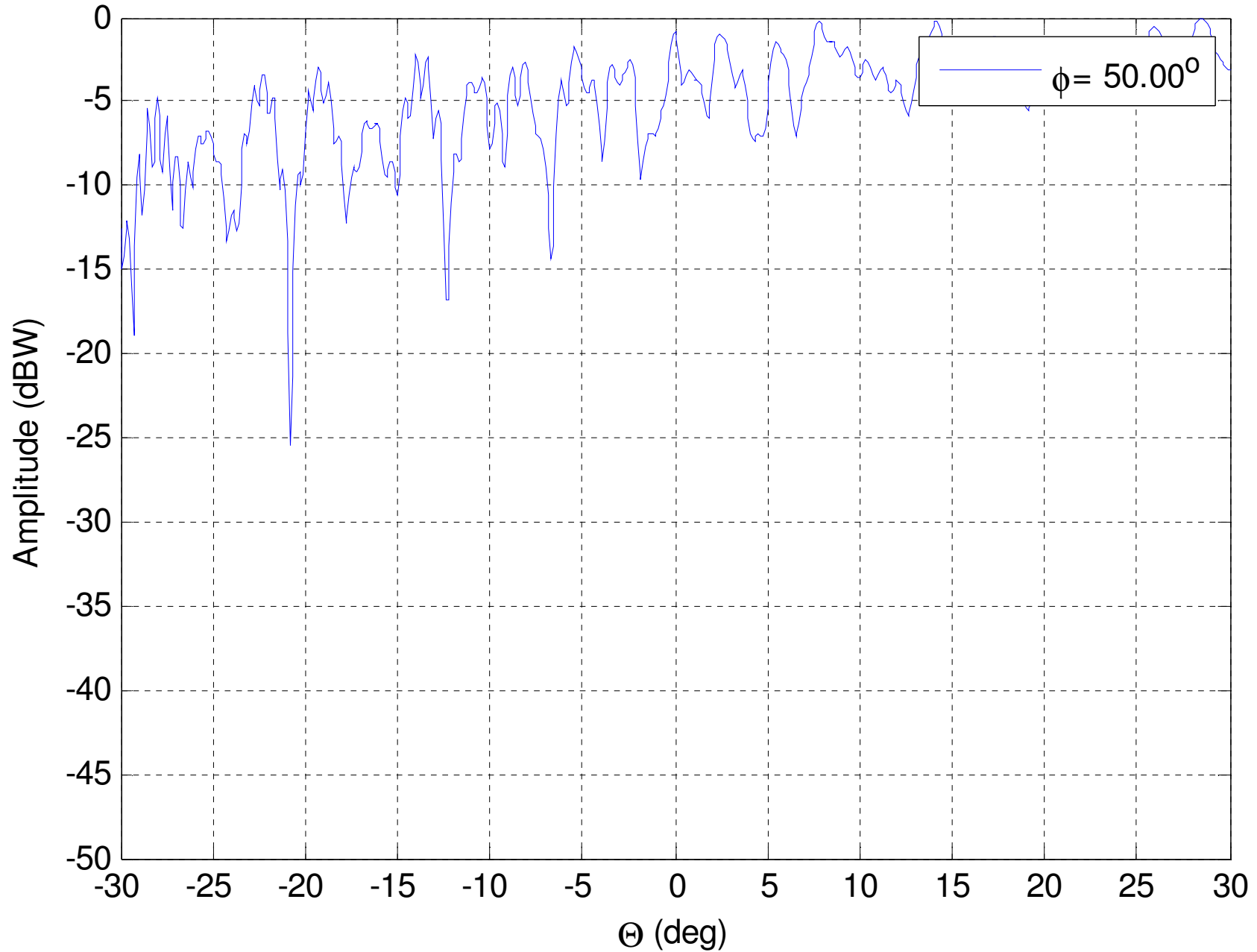
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp-40.cut, Peak: -1.86 dBW, Date: 06-Dec-2011



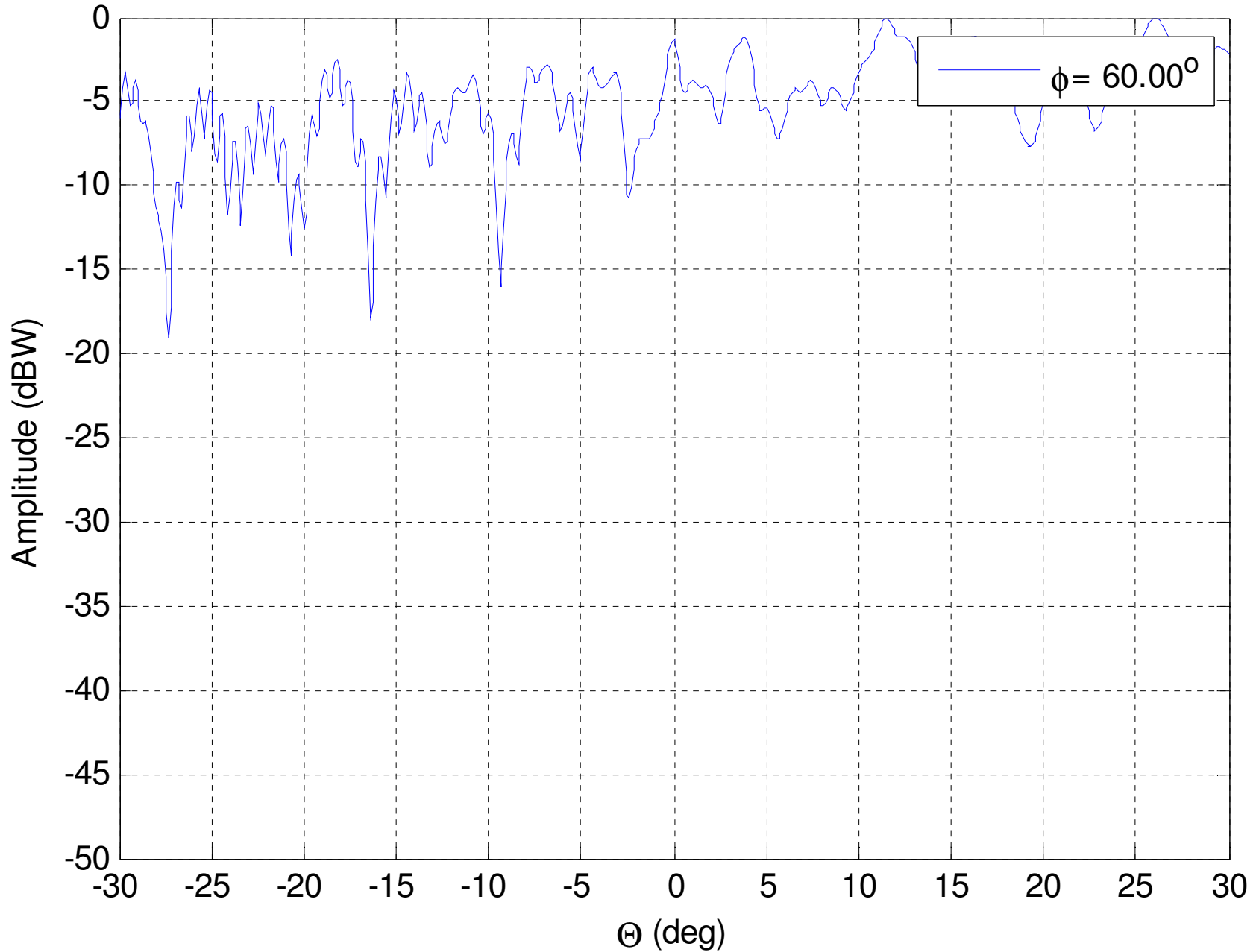
# Normalized pattern cuts - farfield

Input file: tx-17.5-rhcp-50.cut, Peak: -2.47 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

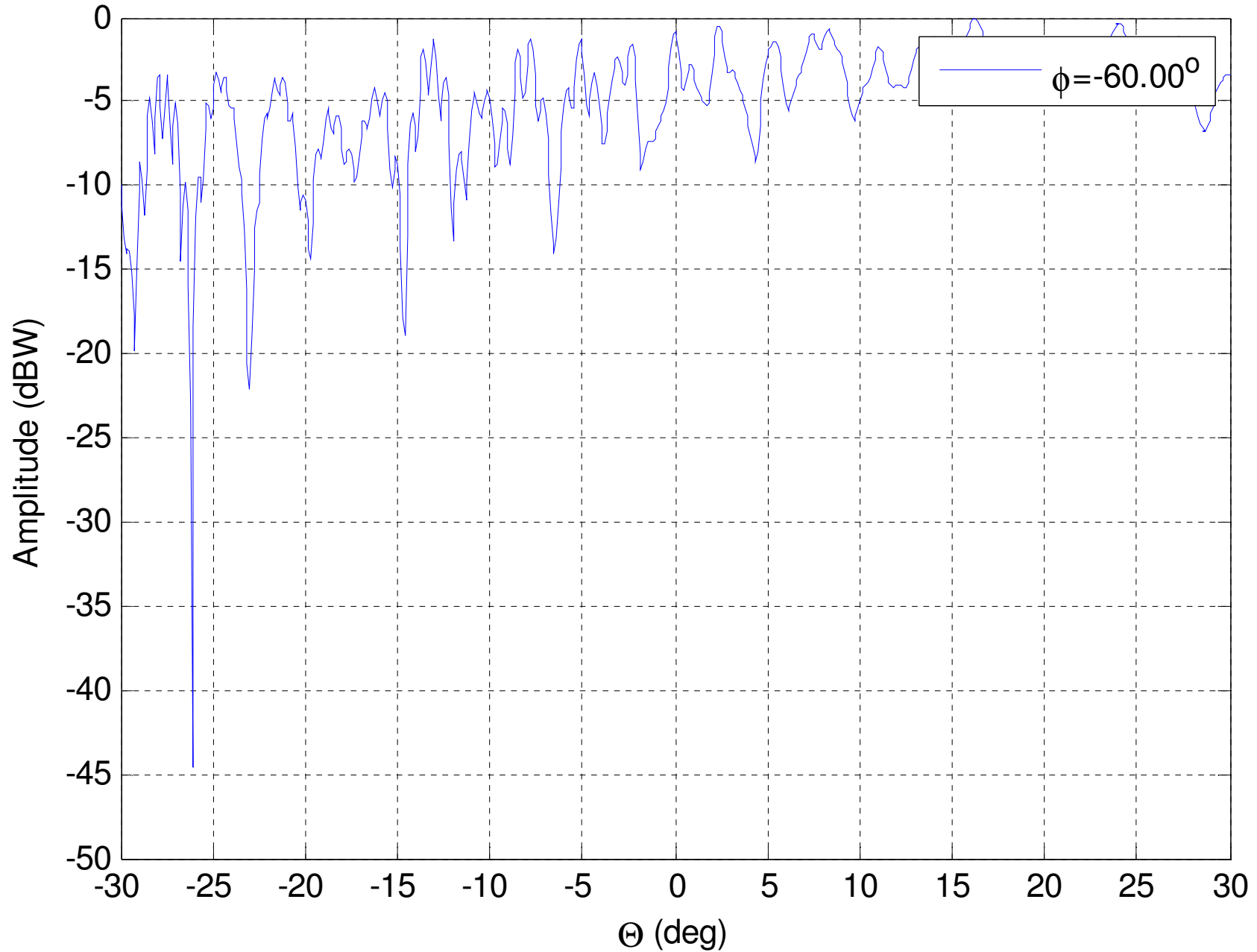
Input file: tx-17.5-rhcp-60.cut, Peak: -1.98 dBW, Date: 06-Dec-2011



LHCP at 17.5 GHz

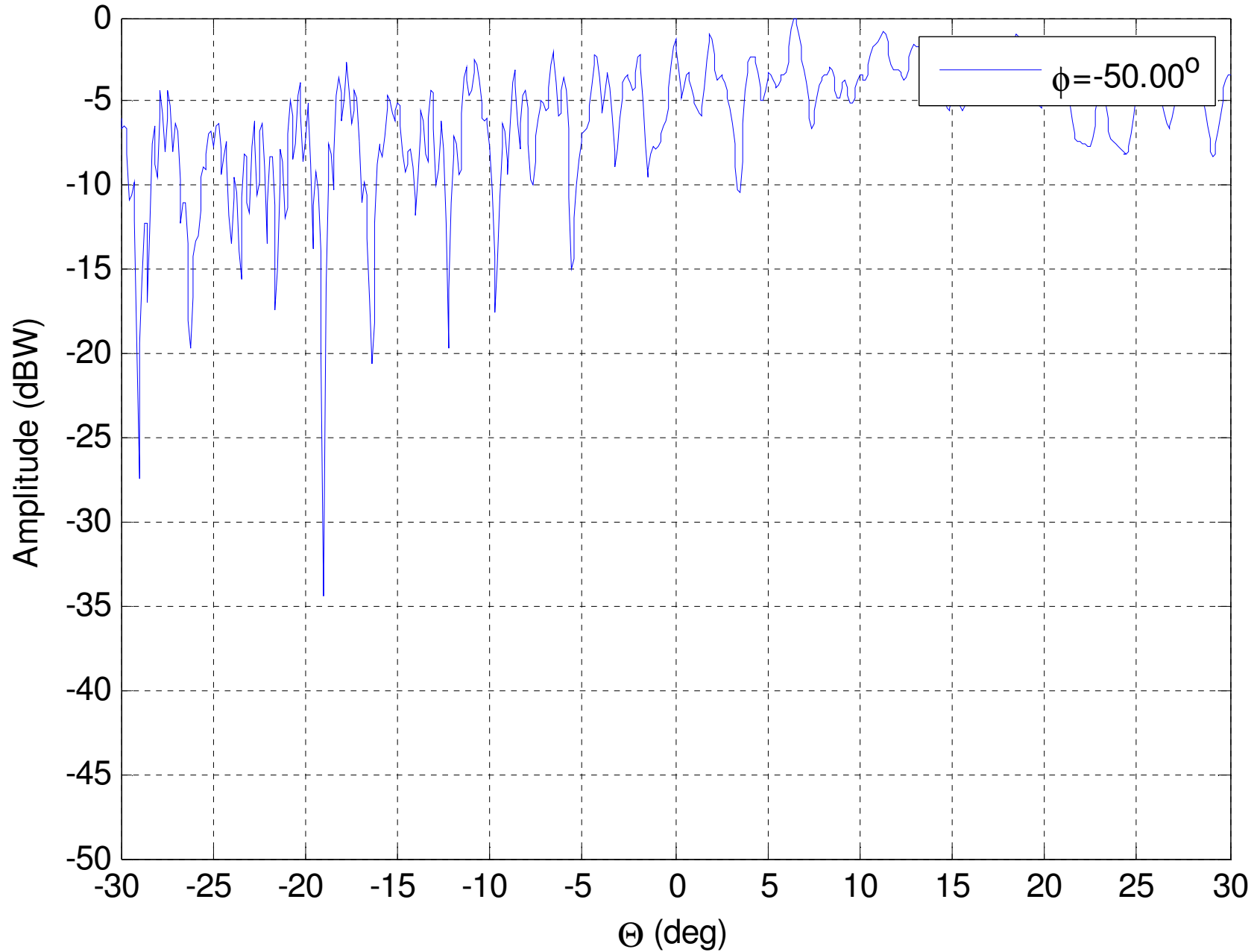
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp--60.cut, Peak: -2.50 dBW, Date: 06-Dec-2011



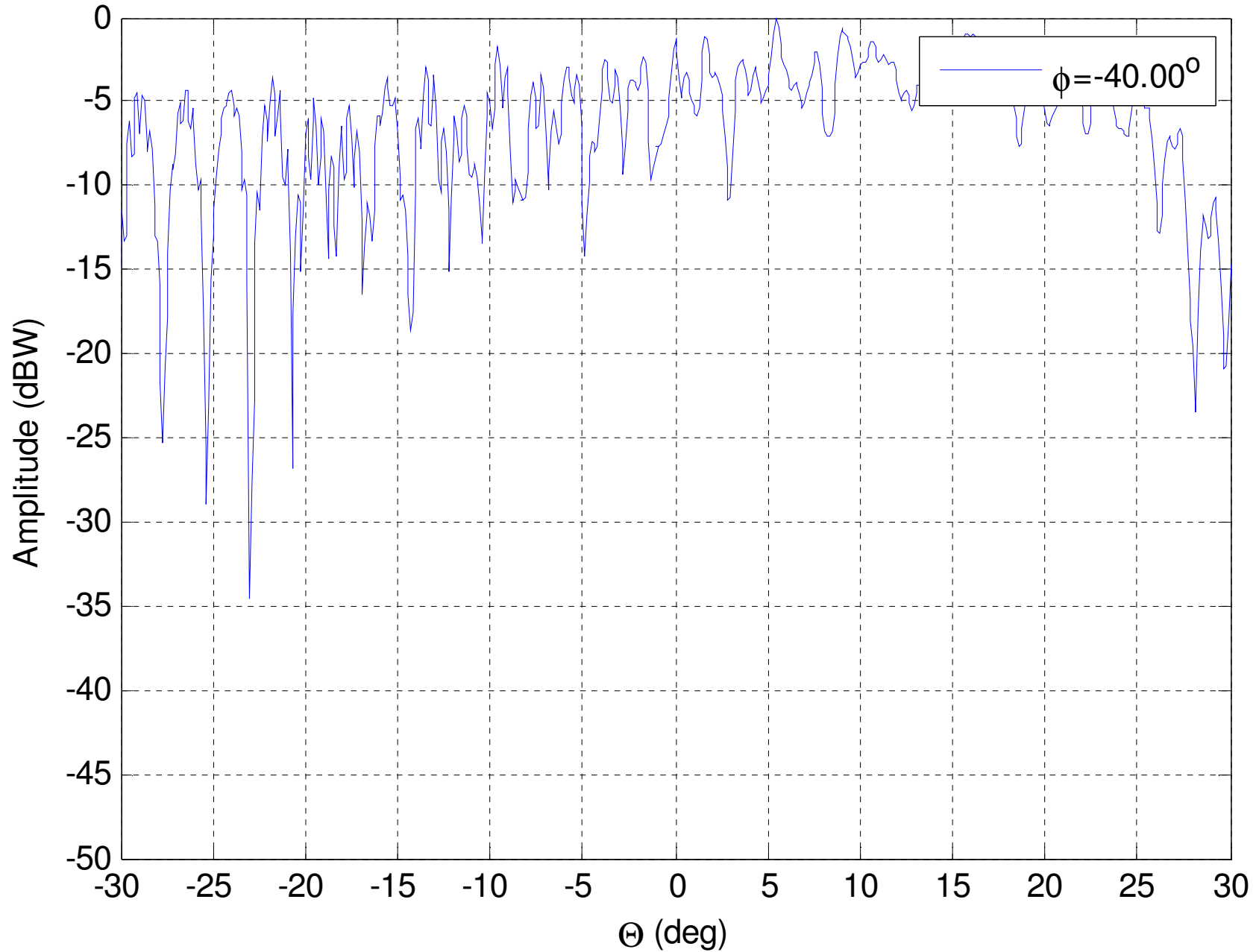
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp--50.cut, Peak: -1.99 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

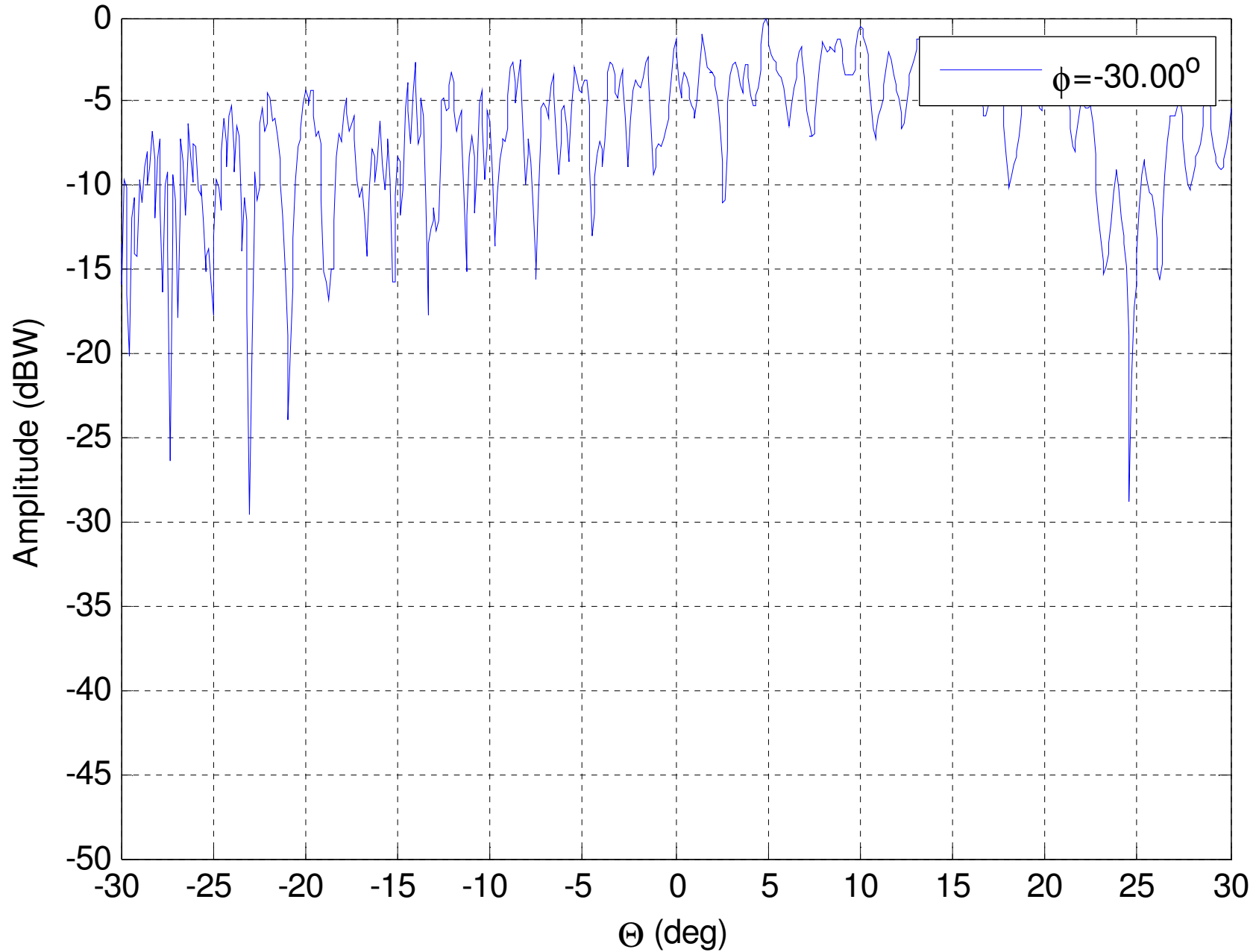
Input file: tx-17.5-lhcp--40.cut, Peak: -1.96 dBW, Date: 06-Dec-2011





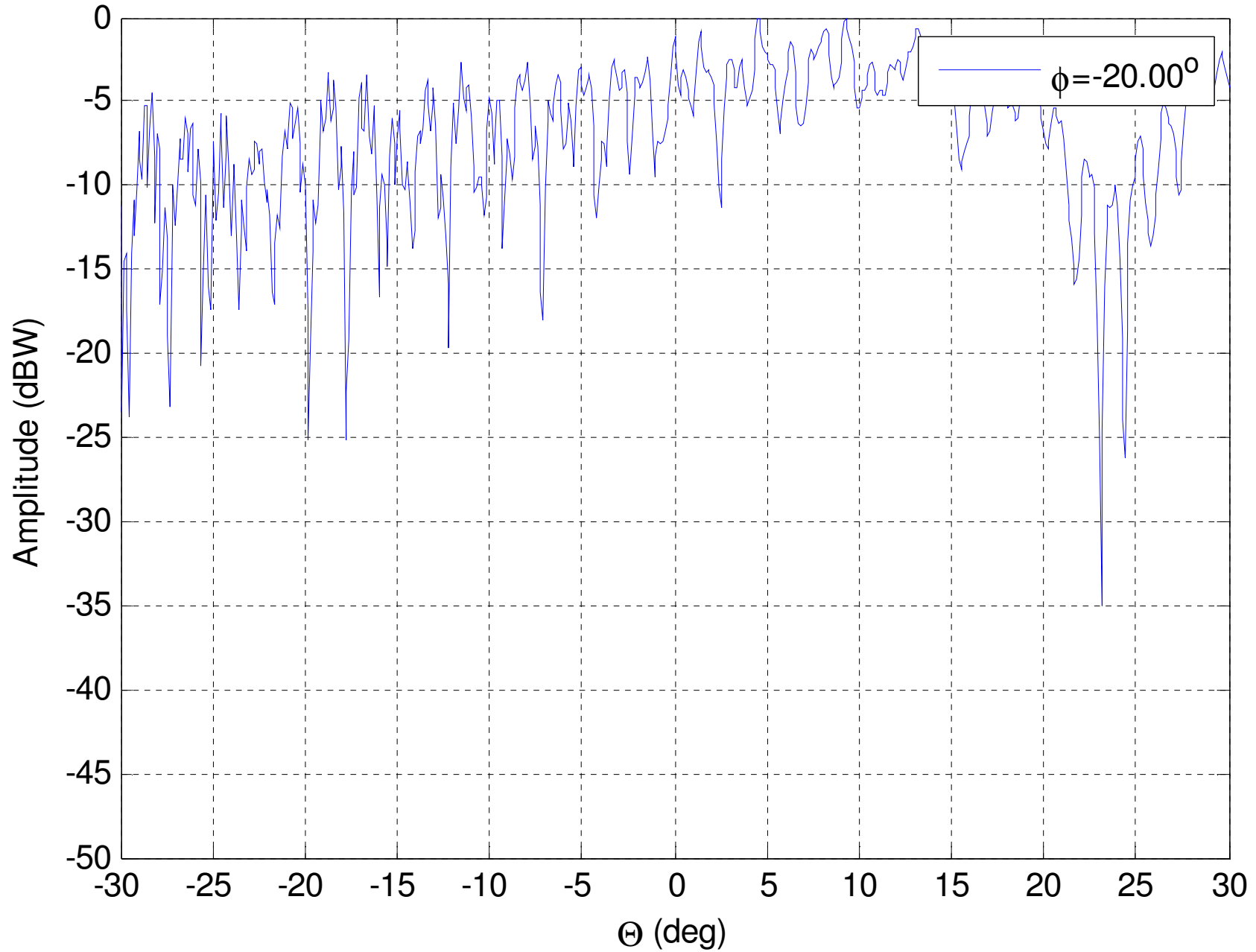
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp--30.cut, Peak: -2.01 dBW, Date: 06-Dec-2011



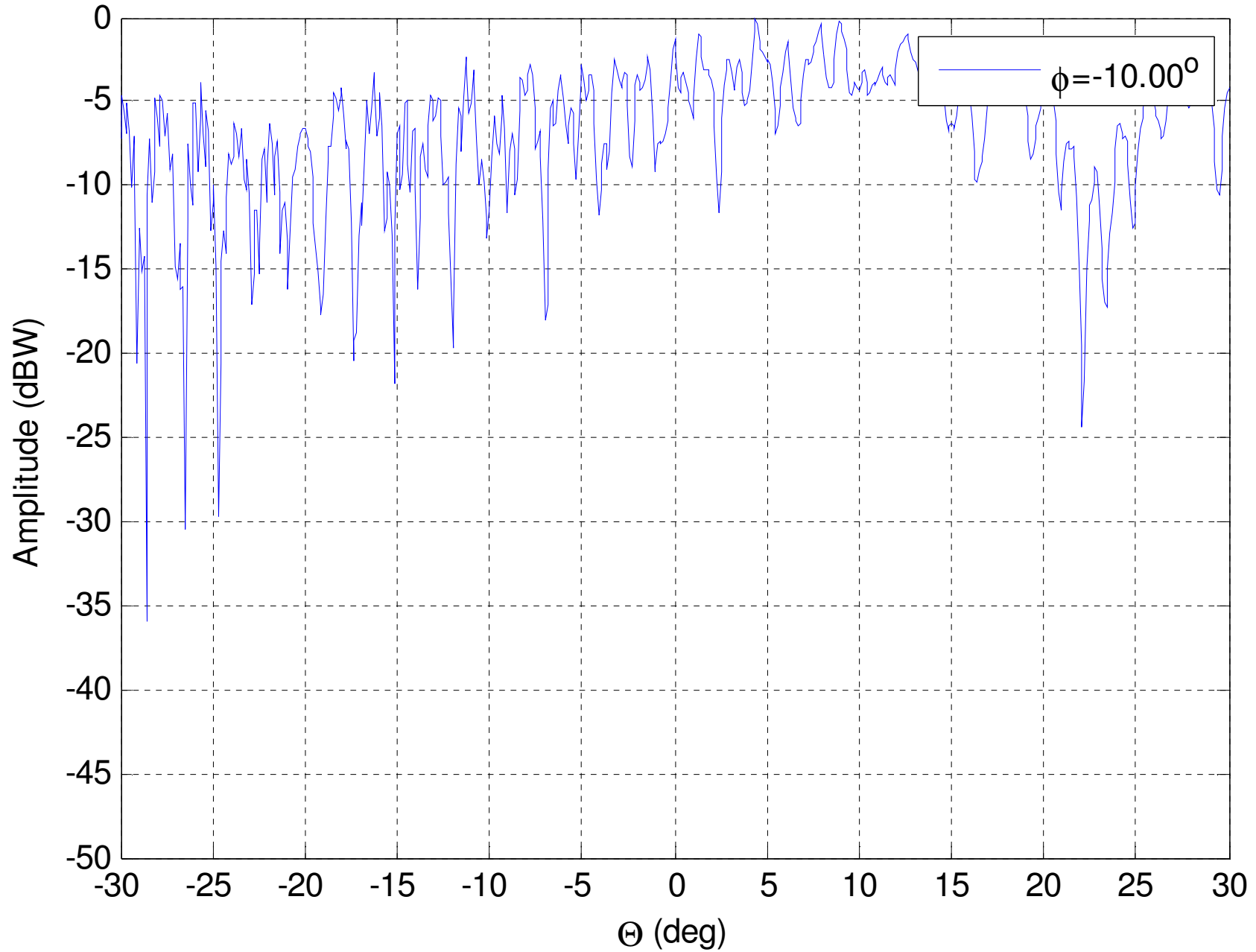
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp--20.cut, Peak: -2.16 dBW, Date: 06-Dec-2011



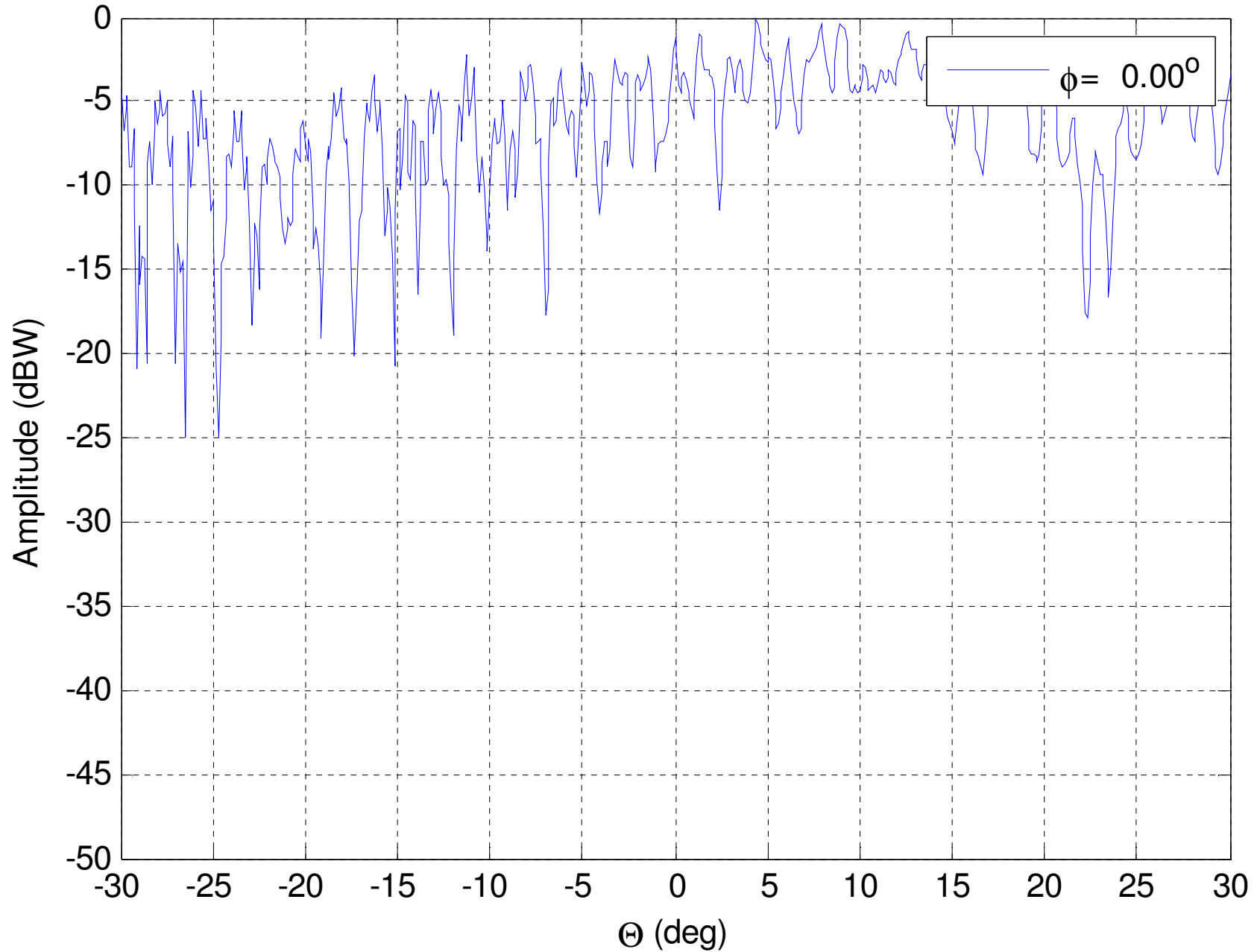
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp--10.cut, Peak: -2.11 dBW, Date: 06-Dec-2011



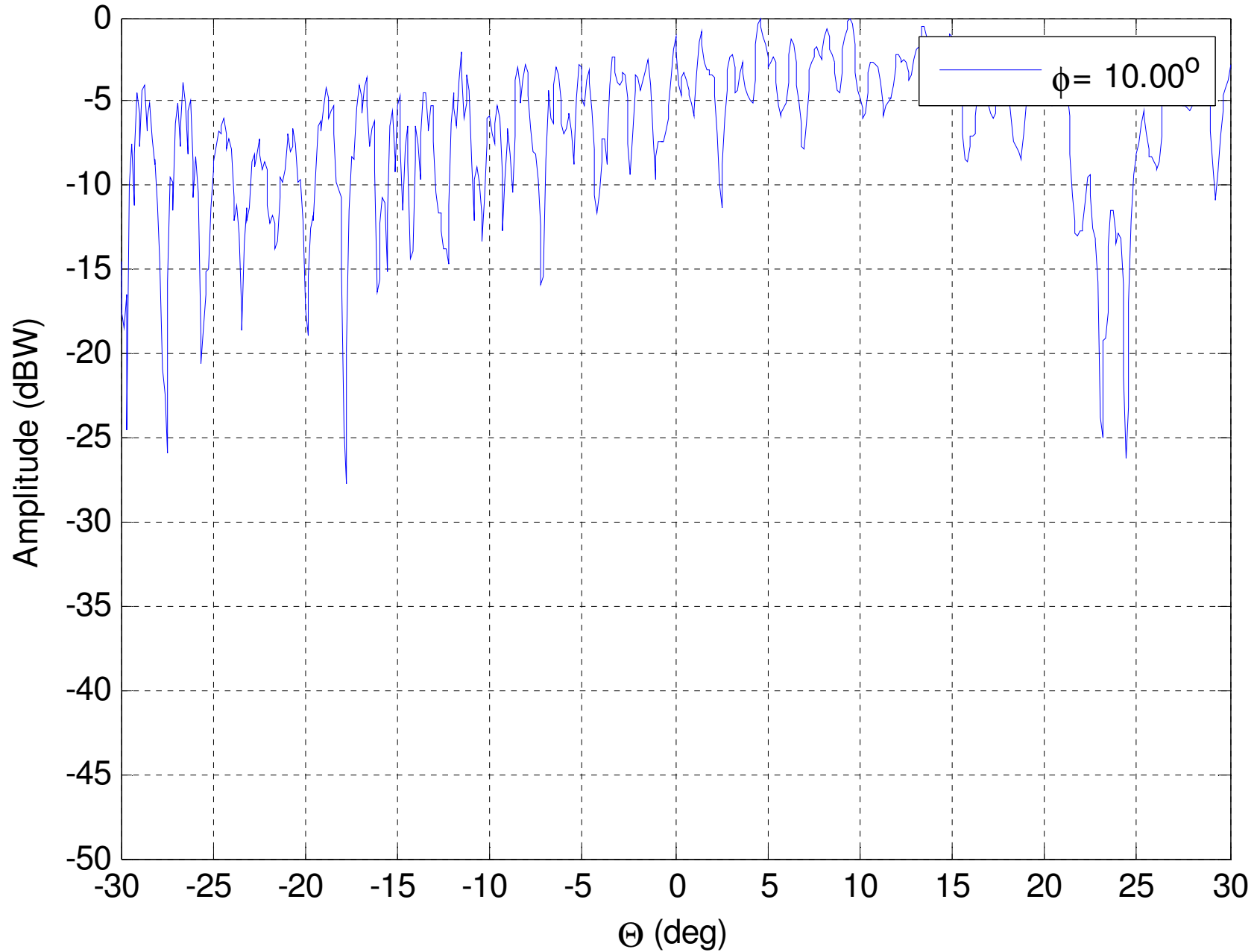
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp-0.cut, Peak: -2.15 dBW, Date: 06-Dec-2011



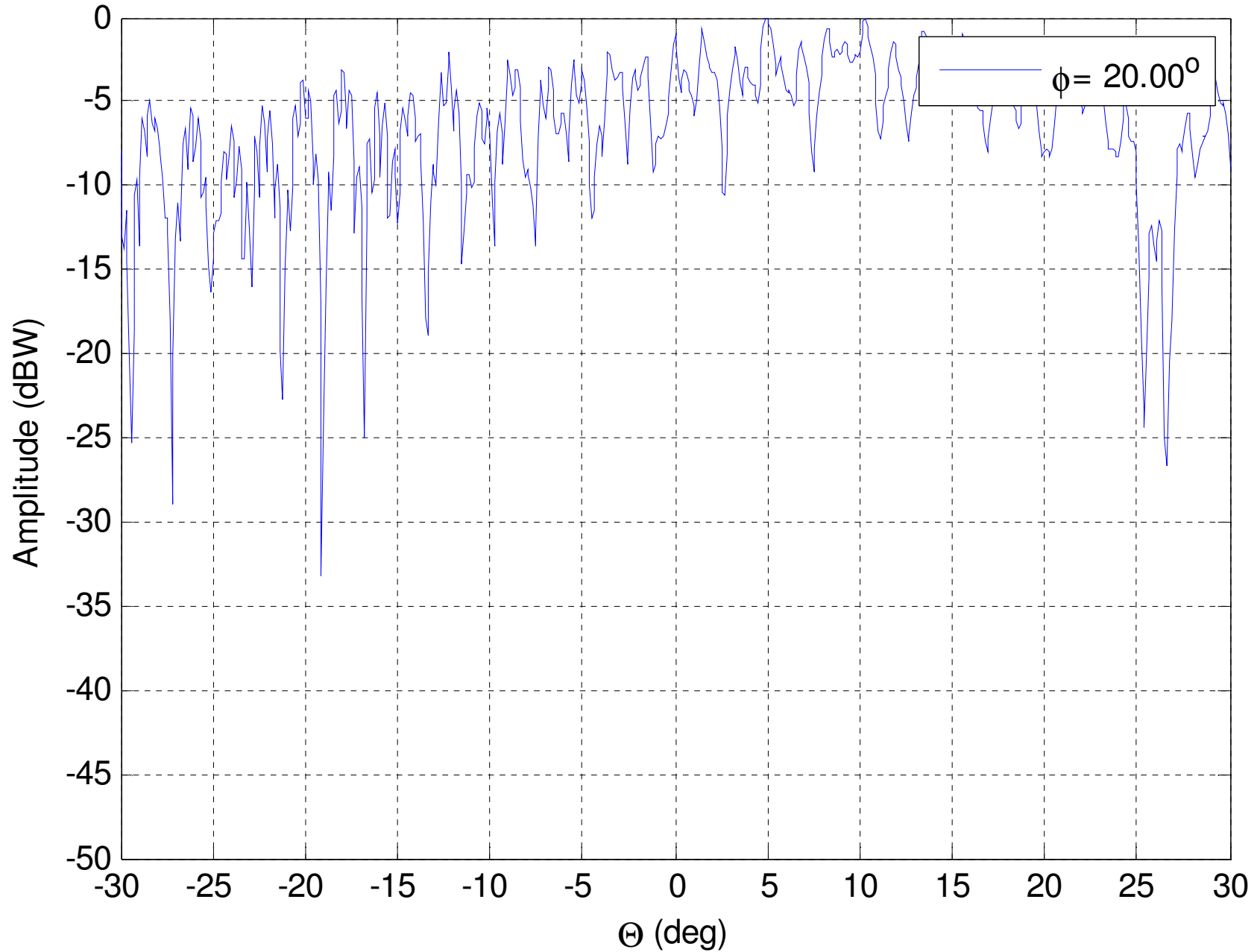
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp-10.cut, Peak: -2.14 dBW, Date: 06-Dec-2011



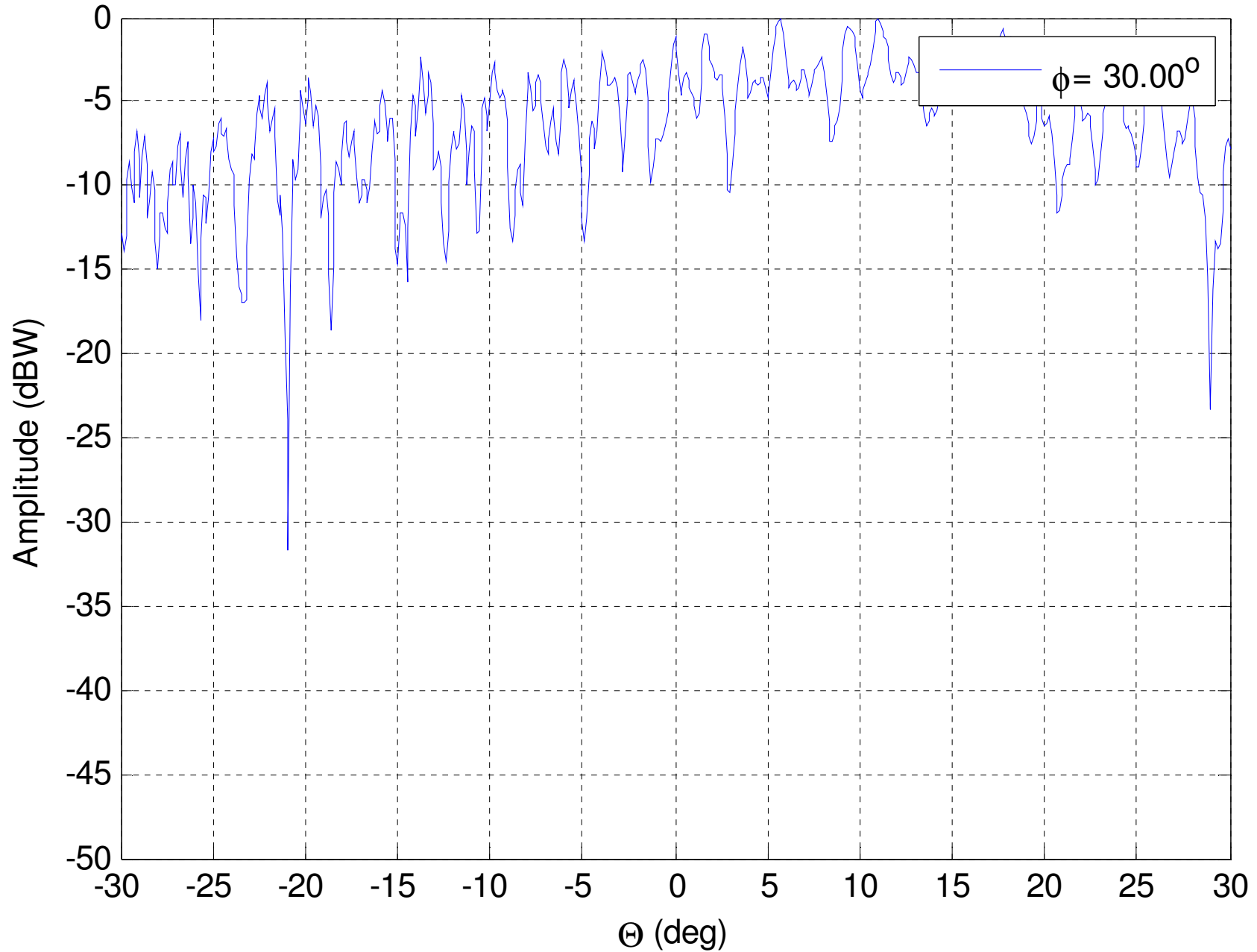
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp-20.cut, Peak: -2.32 dBW, Date: 06-Dec-2011



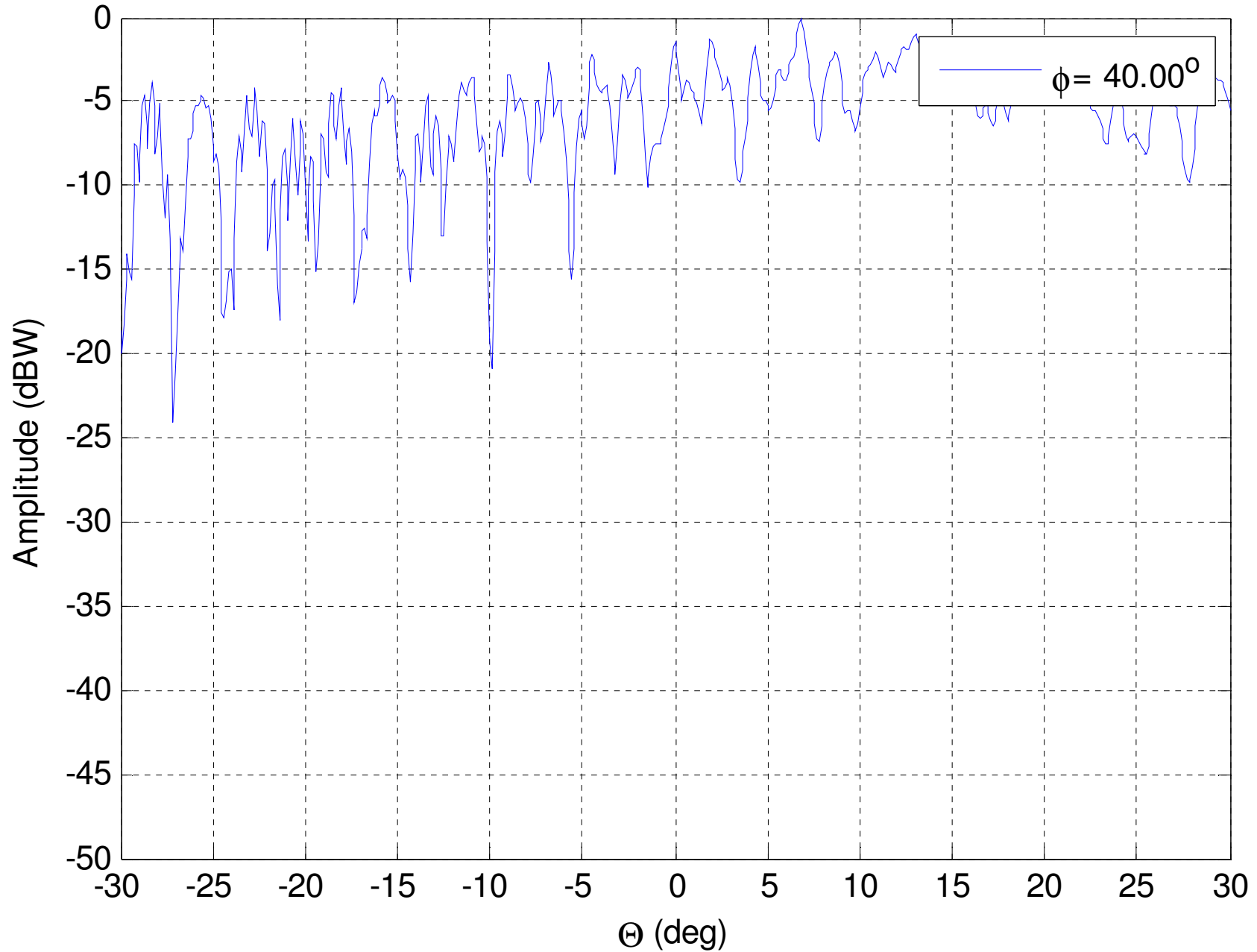
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp-30.cut, Peak: -2.12 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

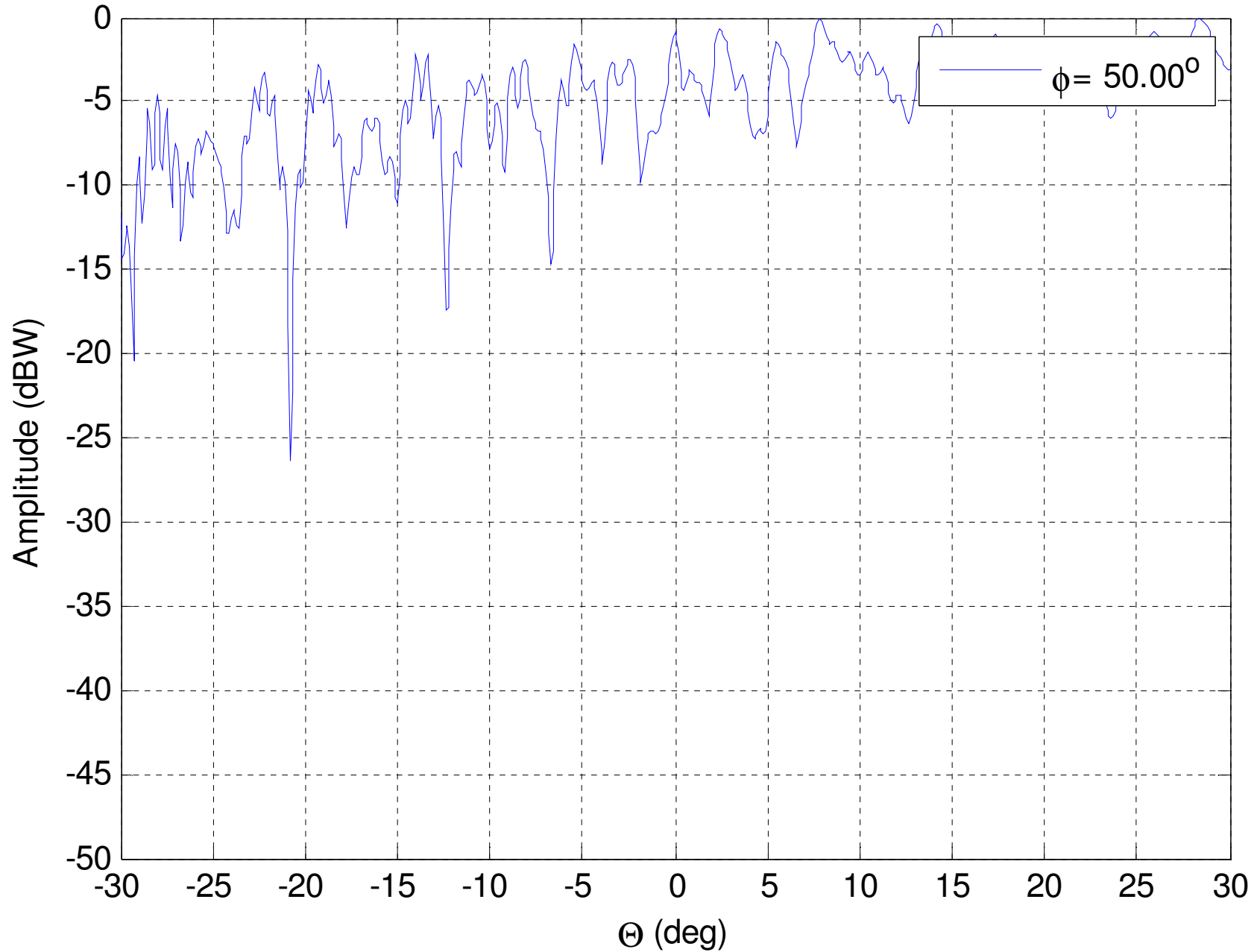
Input file: tx-17.5-lhcp-40.cut, Peak: -1.85 dBW, Date: 06-Dec-2011





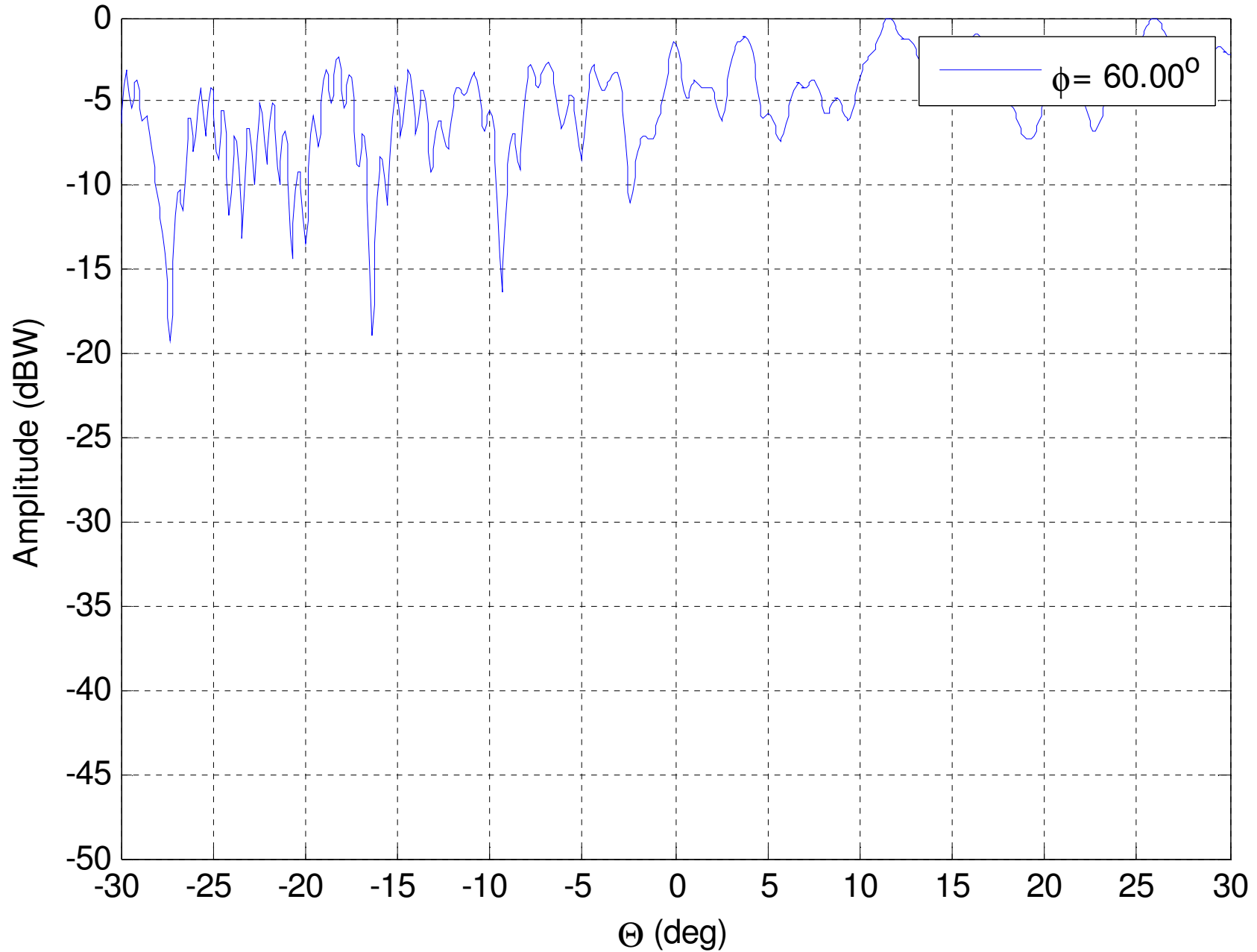
# Normalized pattern cuts - farfield

Input file: tx-17.5-lhcp-50.cut, Peak: -2.44 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

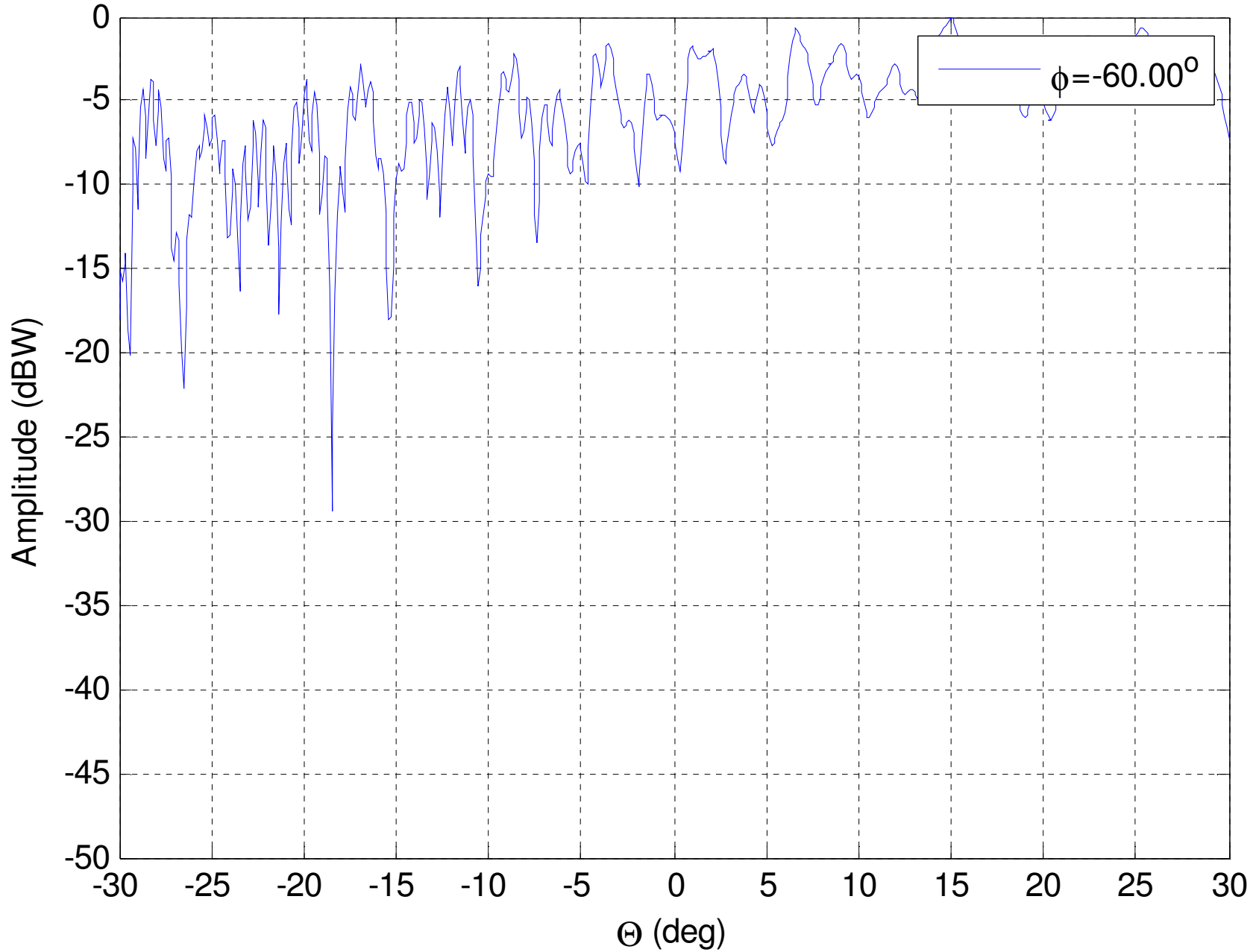
Input file: tx-17.5-lhcp-60.cut, Peak: -1.96 dBW, Date: 06-Dec-2011



**RHCP at 17.7 GHz**

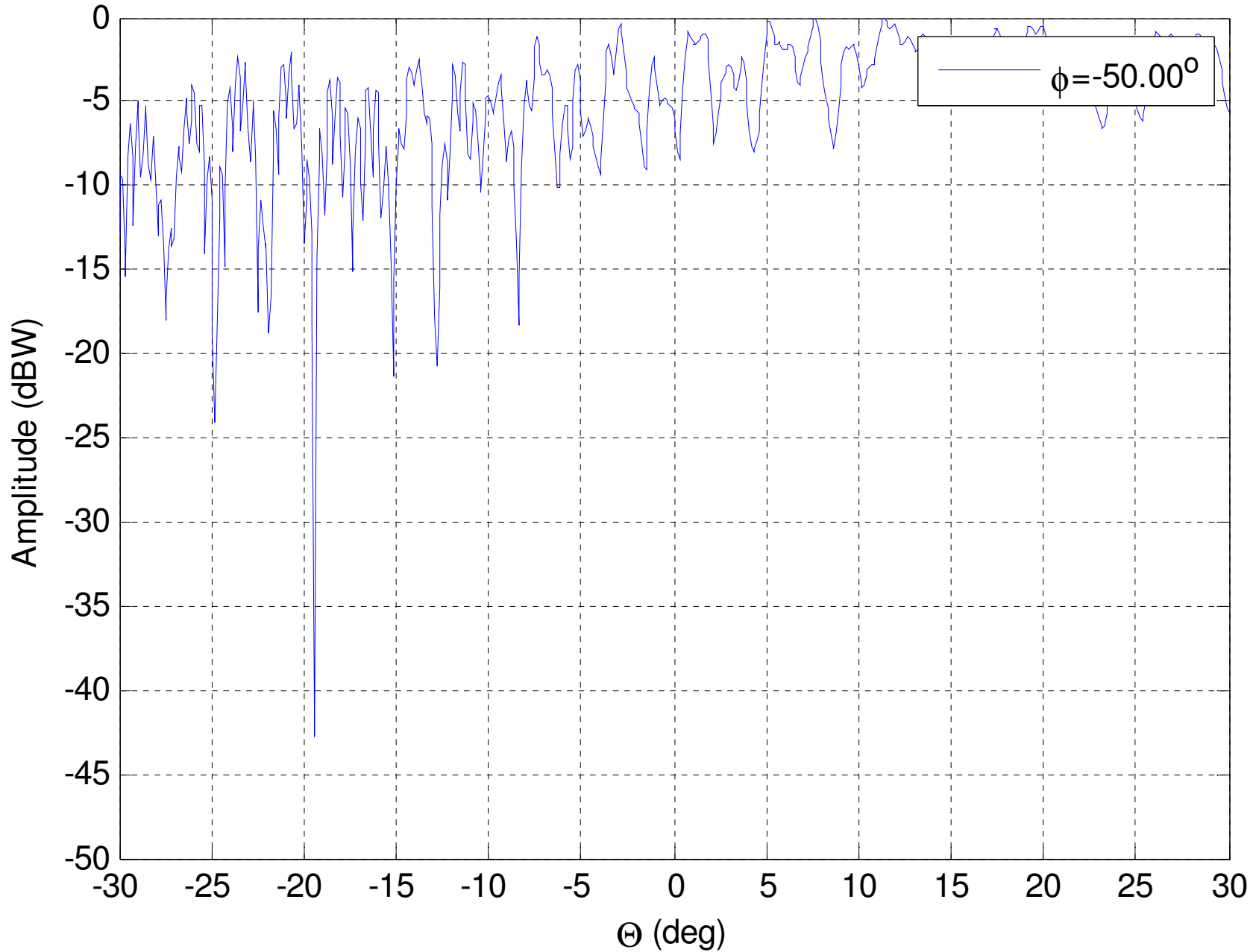
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp--60.cut, Peak: -2.11 dBW, Date: 06-Dec-2011



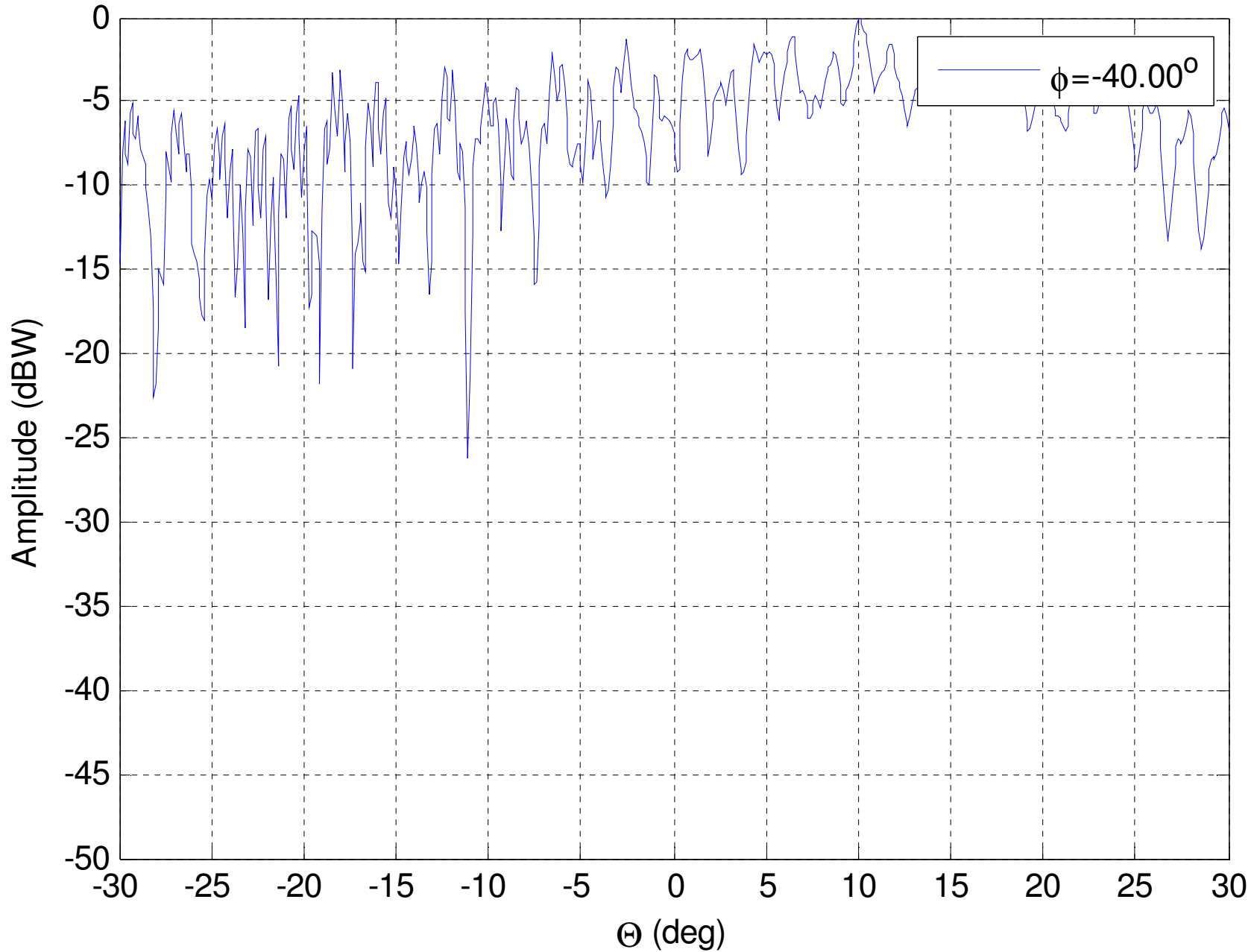
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp--50.cut, Peak: -3.02 dBW, Date: 06-Dec-2011



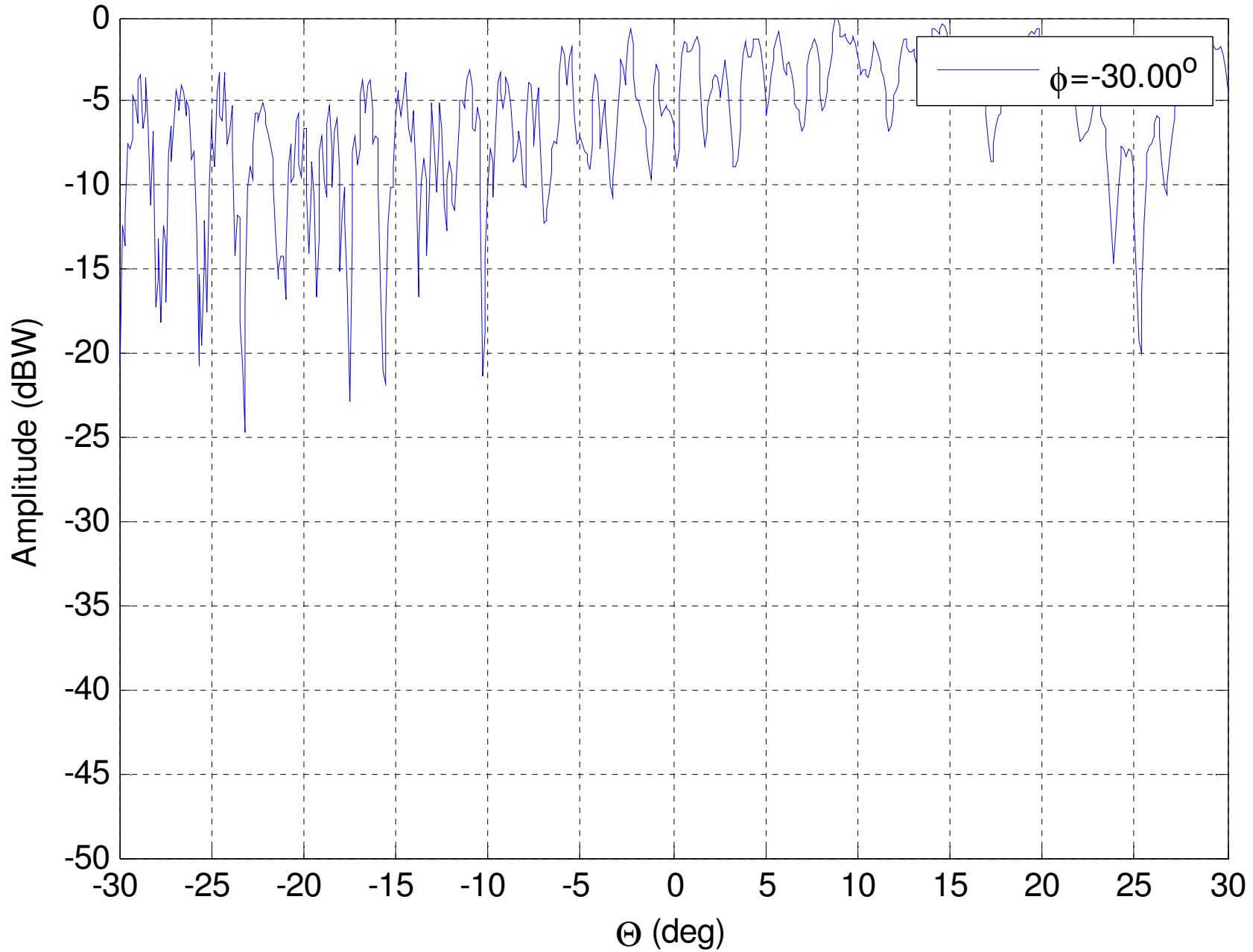
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp--40.cut, Peak: -2.04 dBW, Date: 06-Dec-2011



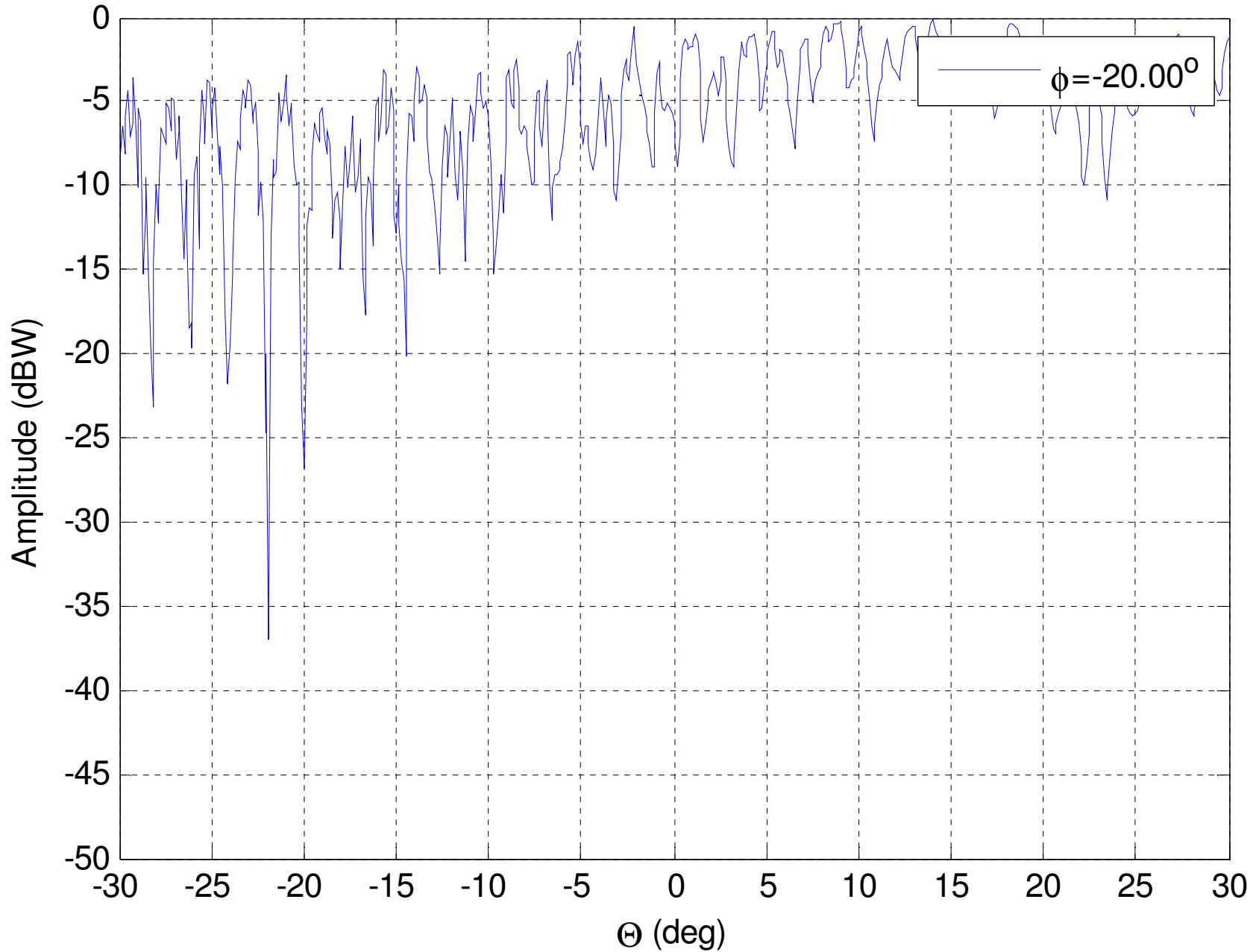
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp--30.cut, Peak: -2.55 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

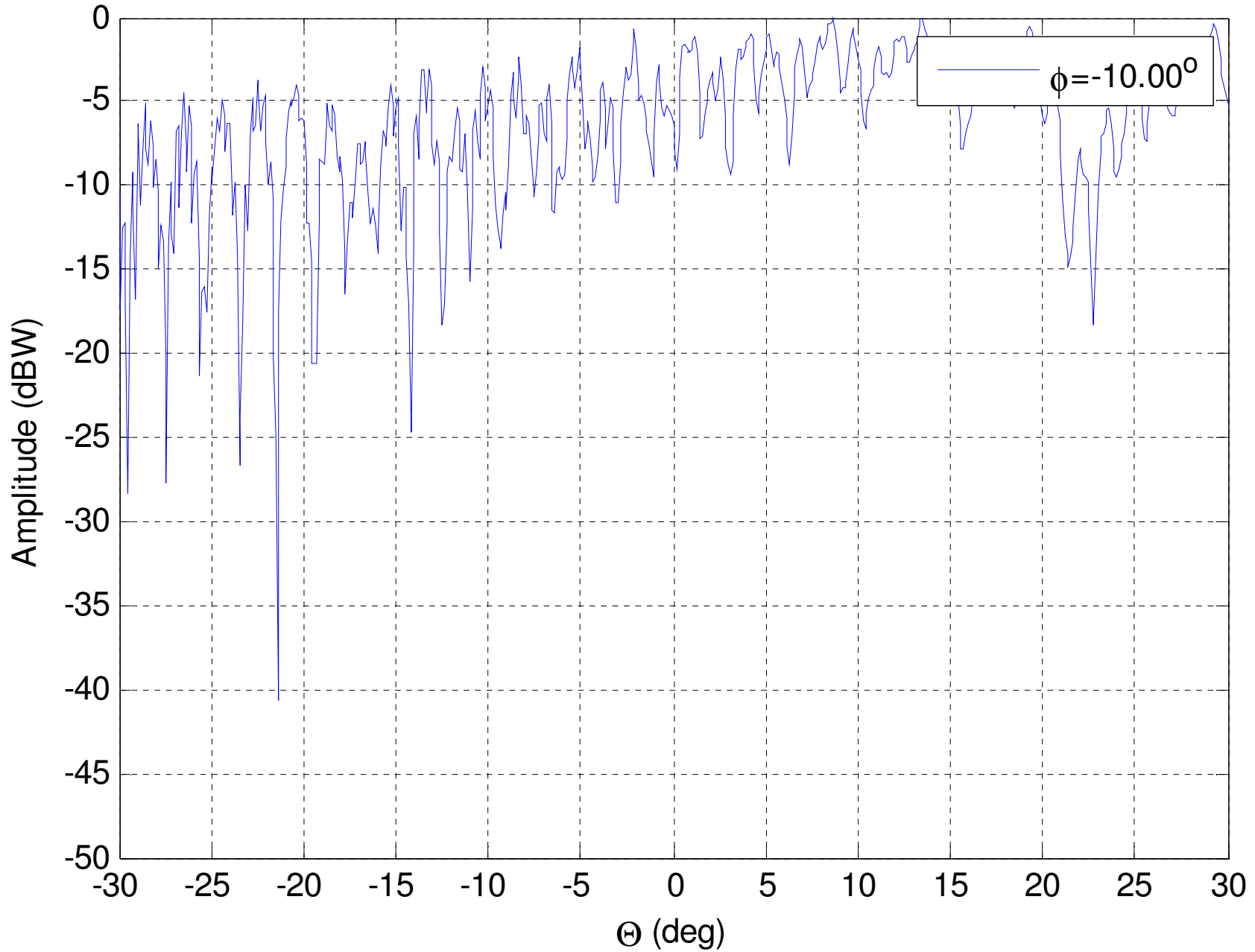
Input file: tx-17.7-rhcp--20.cut, Peak: -2.71 dBW, Date: 06-Dec-2011





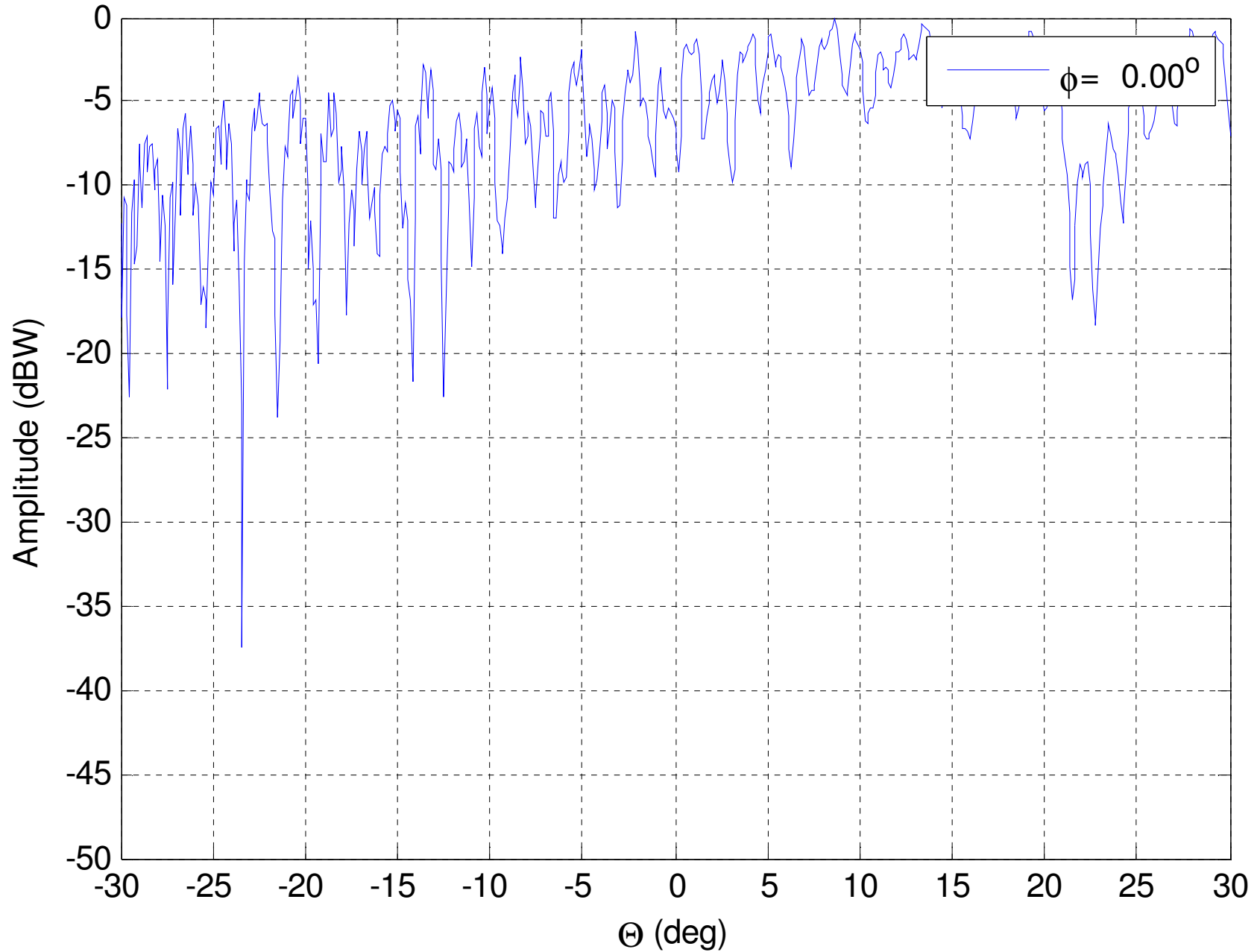
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp--10.cut, Peak: -2.51 dBW, Date: 06-Dec-2011



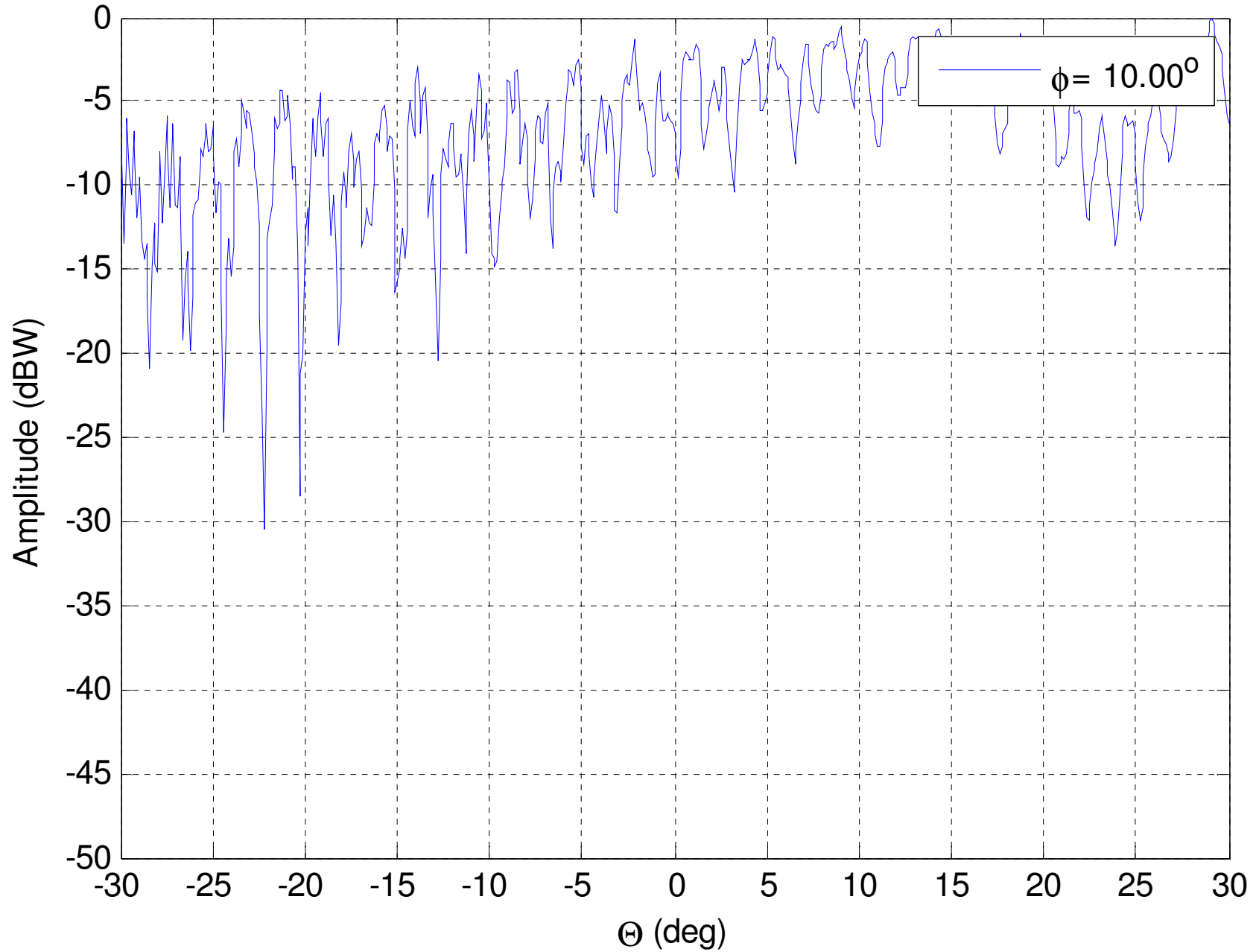
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp-0.cut, Peak: -2.40 dBW, Date: 06-Dec-2011



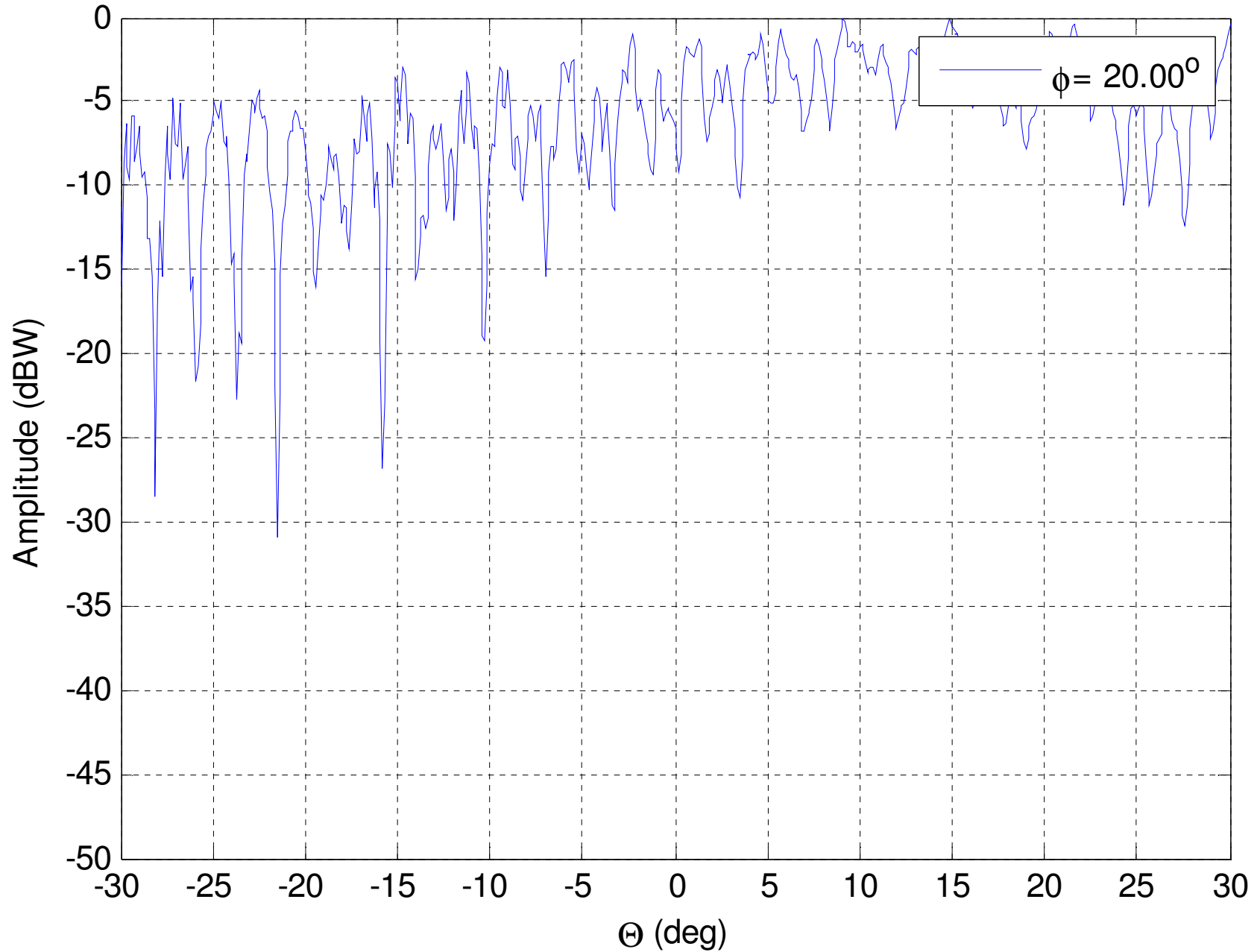
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp-10.cut, Peak: -2.04 dBW, Date: 06-Dec-2011



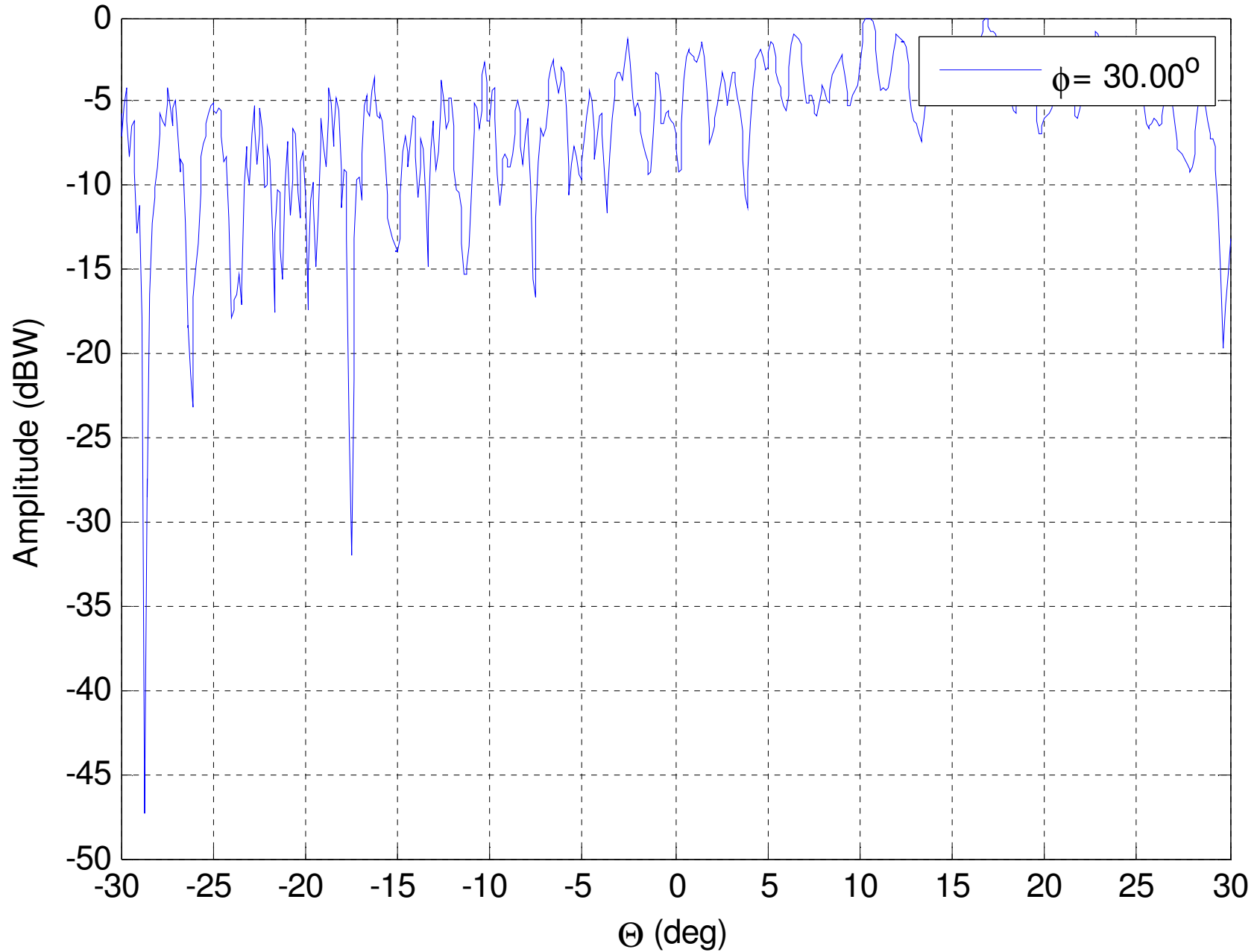
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp-20.cut, Peak: -2.30 dBW, Date: 06-Dec-2011



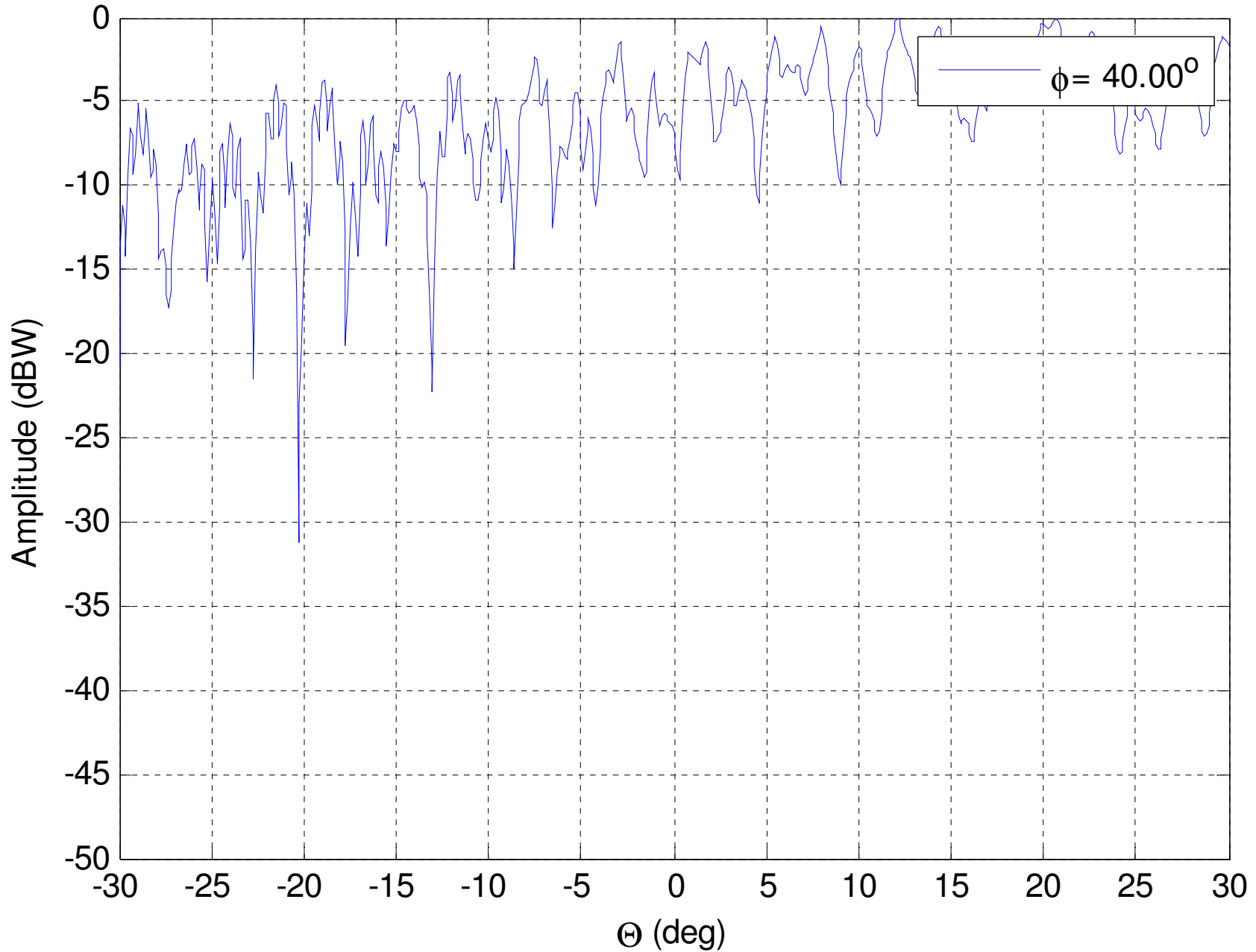
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp-30.cut, Peak: -2.11 dBW, Date: 06-Dec-2011



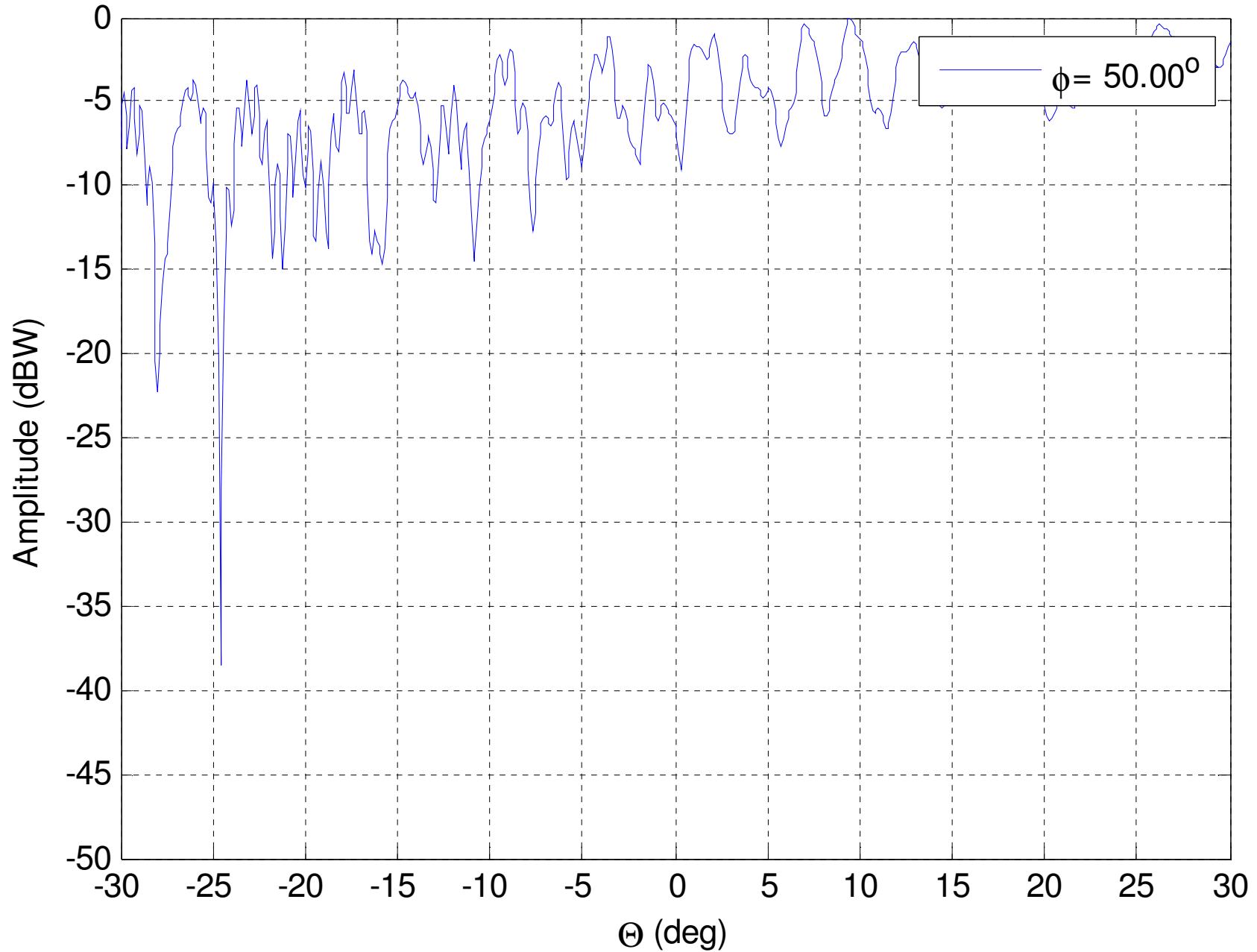
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp-40.cut, Peak: -1.99 dBW, Date: 06-Dec-2011



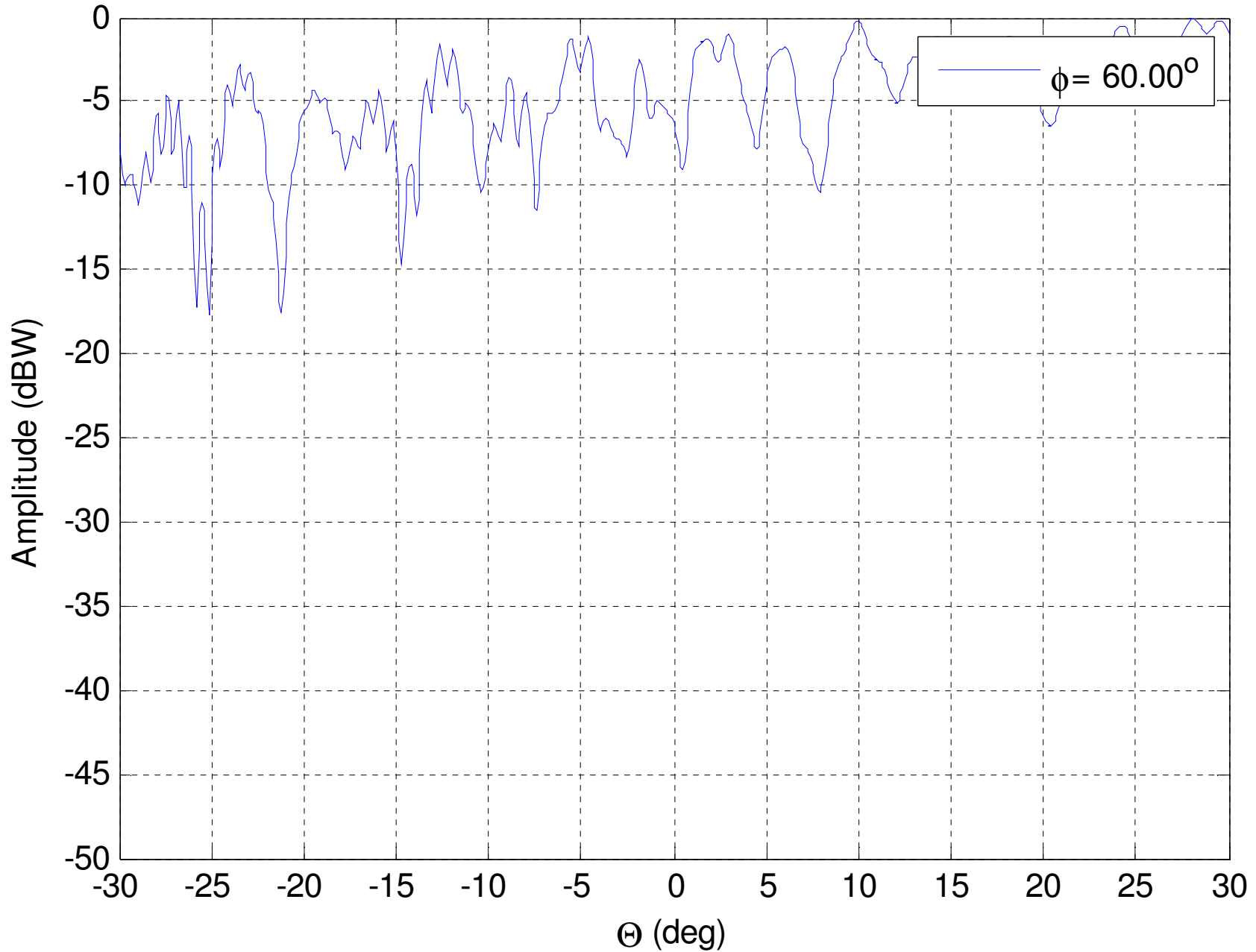
# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp-50.cut, Peak: -2.50 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

Input file: tx-17.7-rhcp-60.cut, Peak: -2.66 dBW, Date: 06-Dec-2011

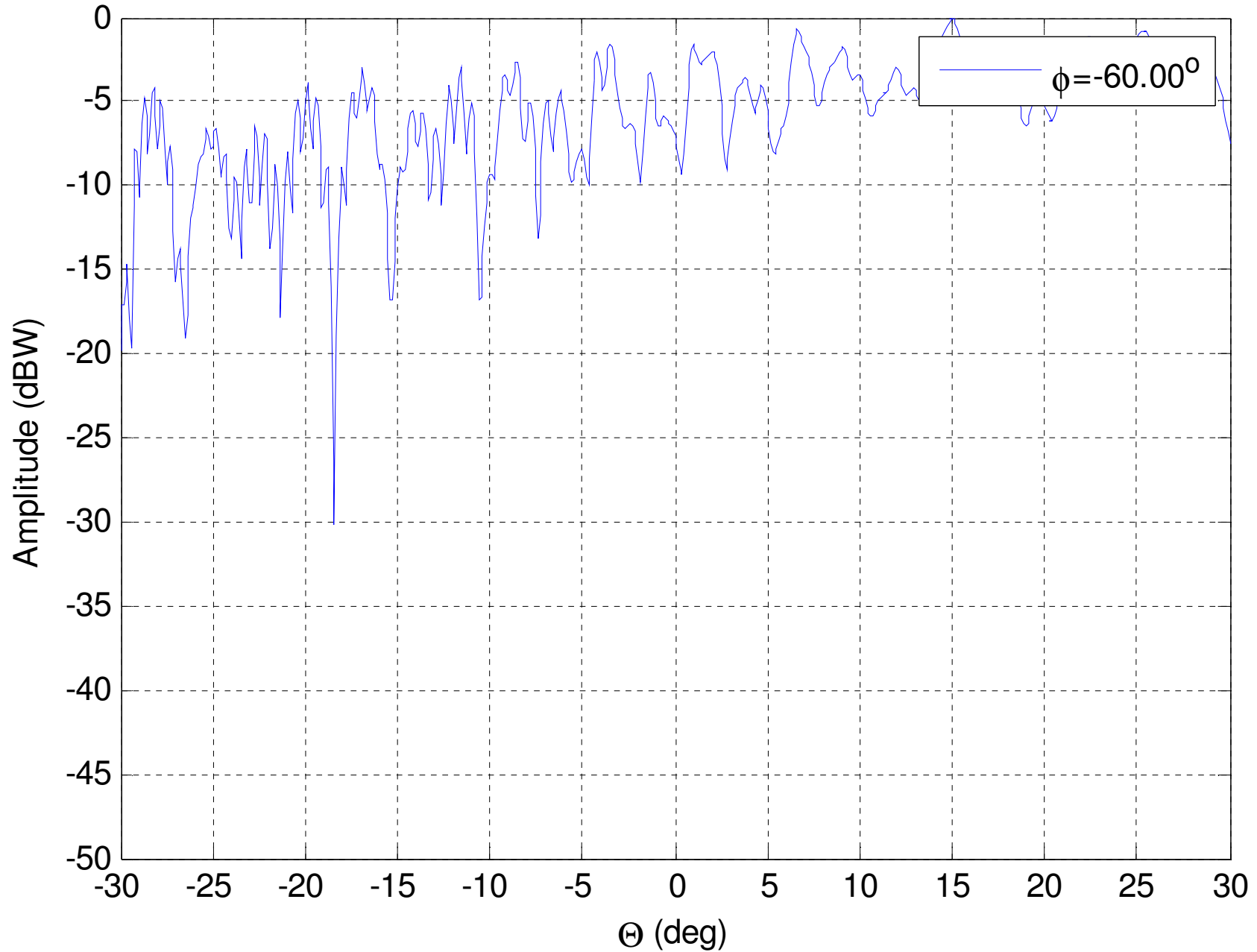




**LHCP at 17.7 GHz**

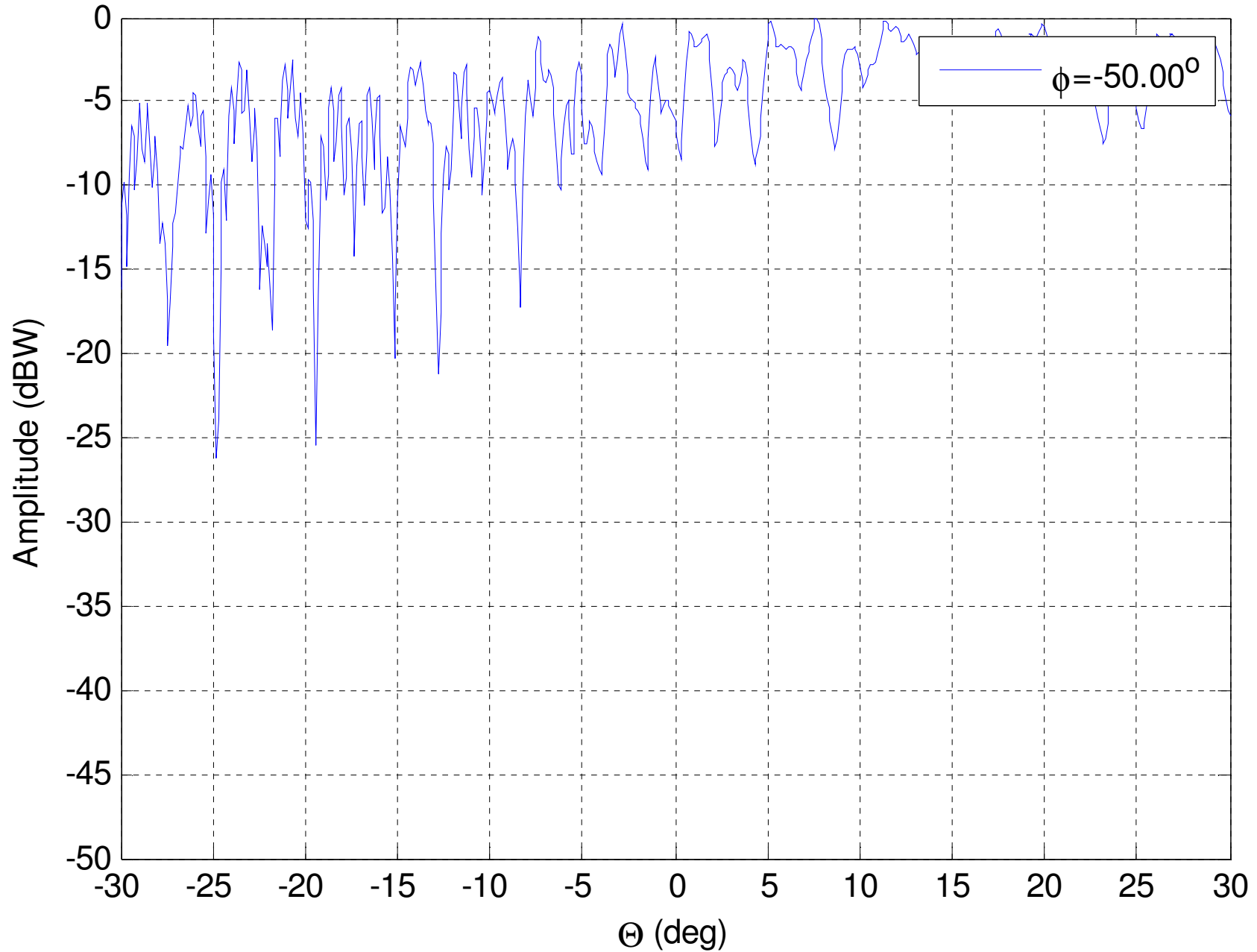
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp--60.cut, Peak: -1.97 dBW, Date: 06-Dec-2011



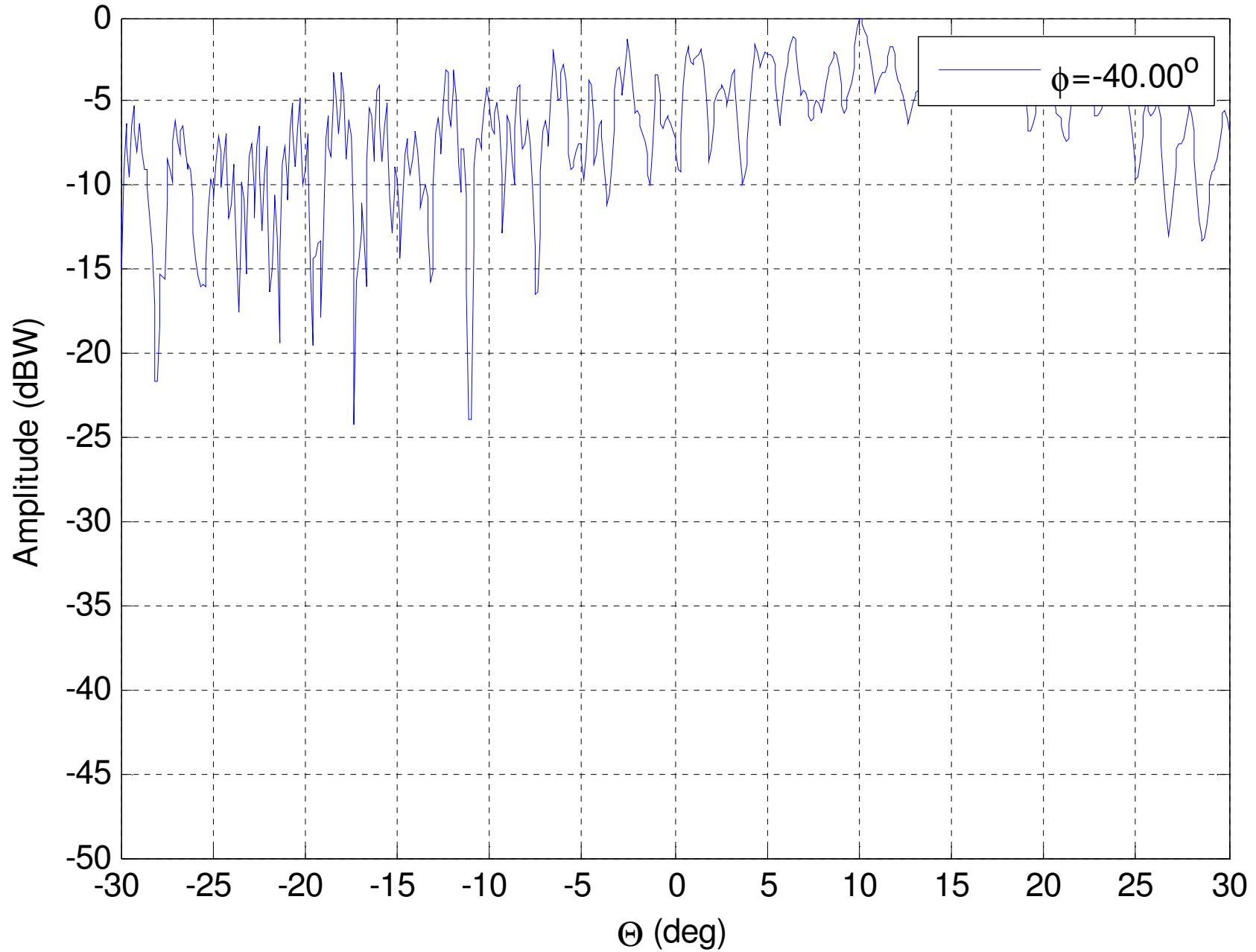
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp--50.cut, Peak: -2.90 dBW, Date: 06-Dec-2011



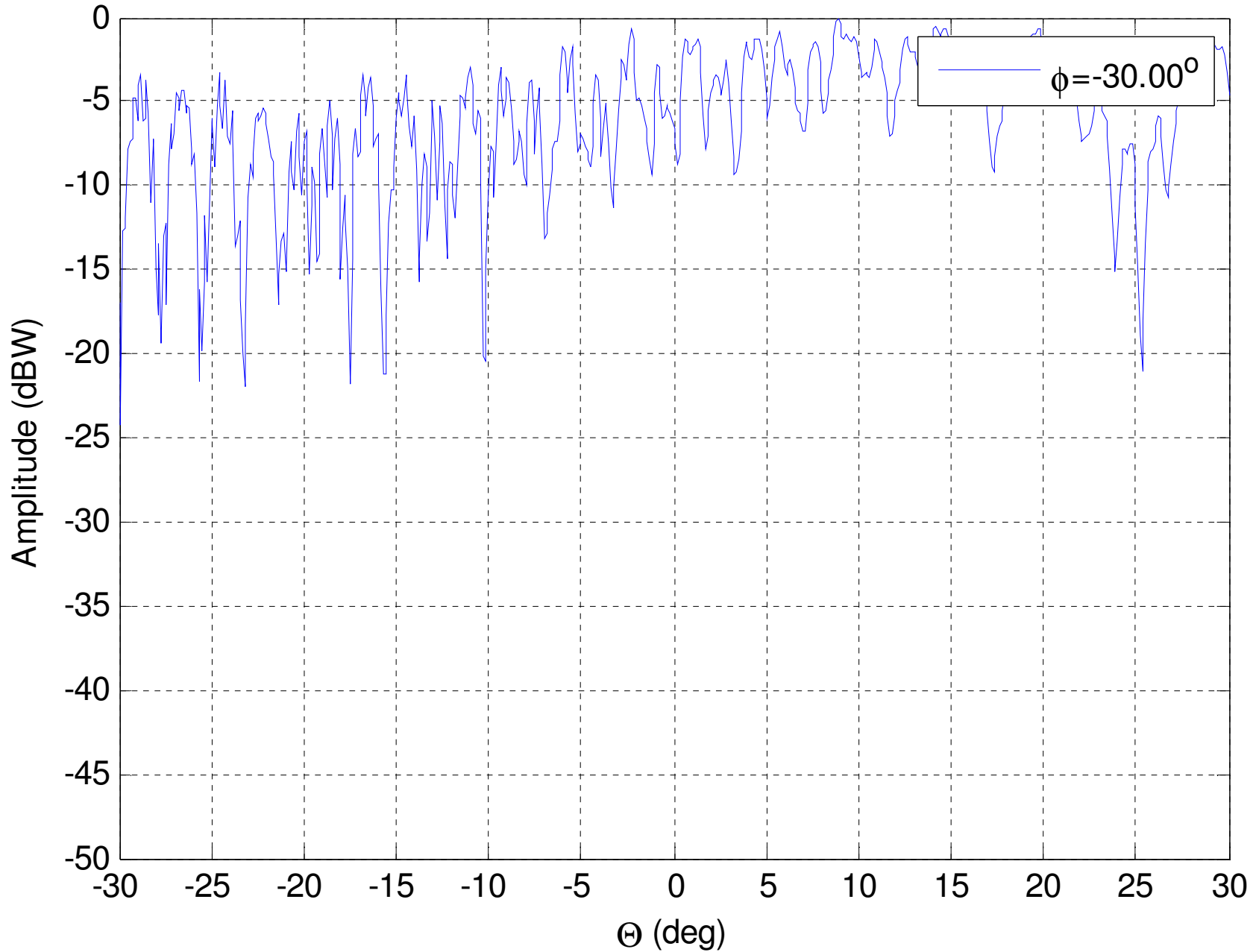
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp--40.cut, Peak: -1.93 dBW, Date: 06-Dec-2011



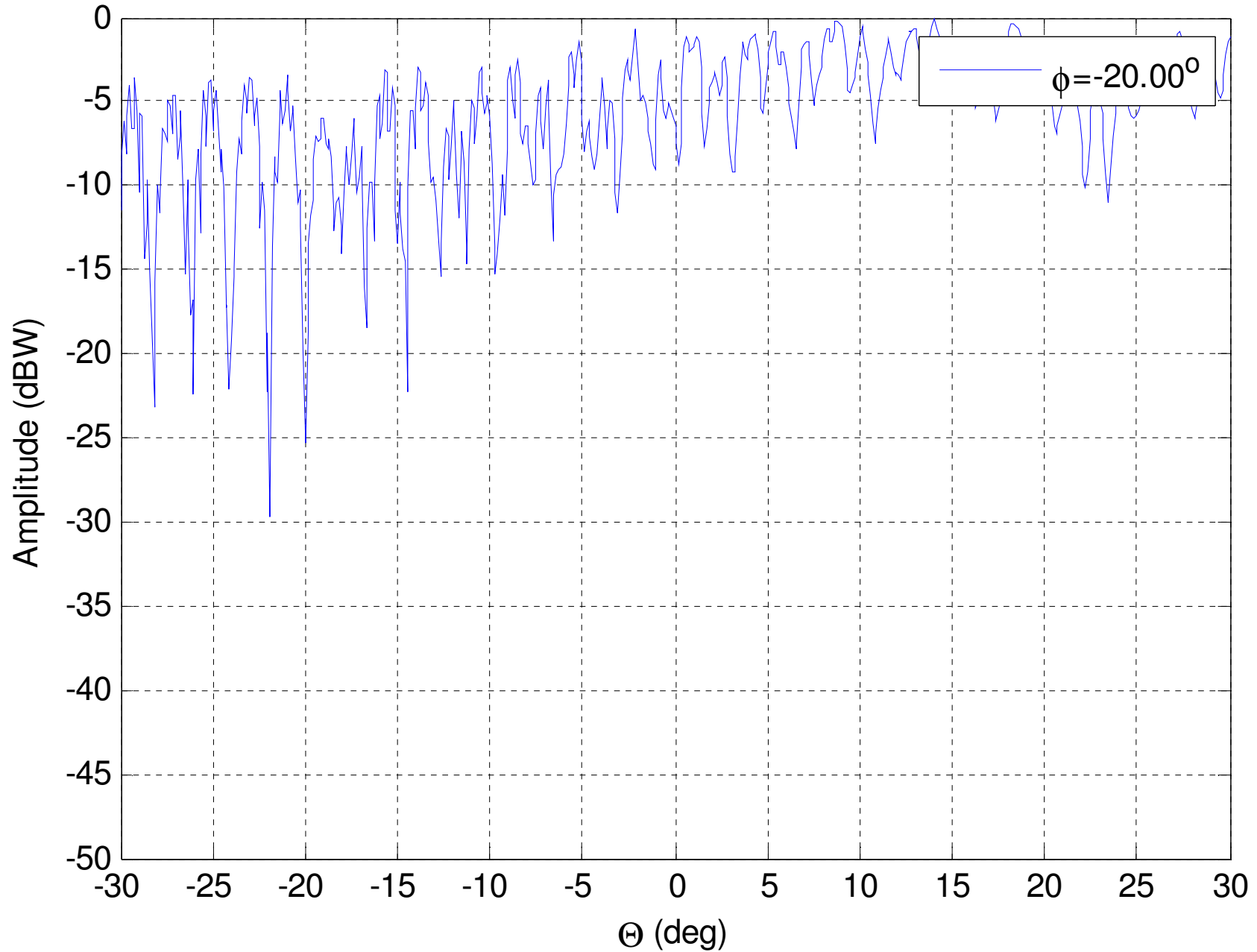
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp--30.cut, Peak: -2.52 dBW, Date: 06-Dec-2011



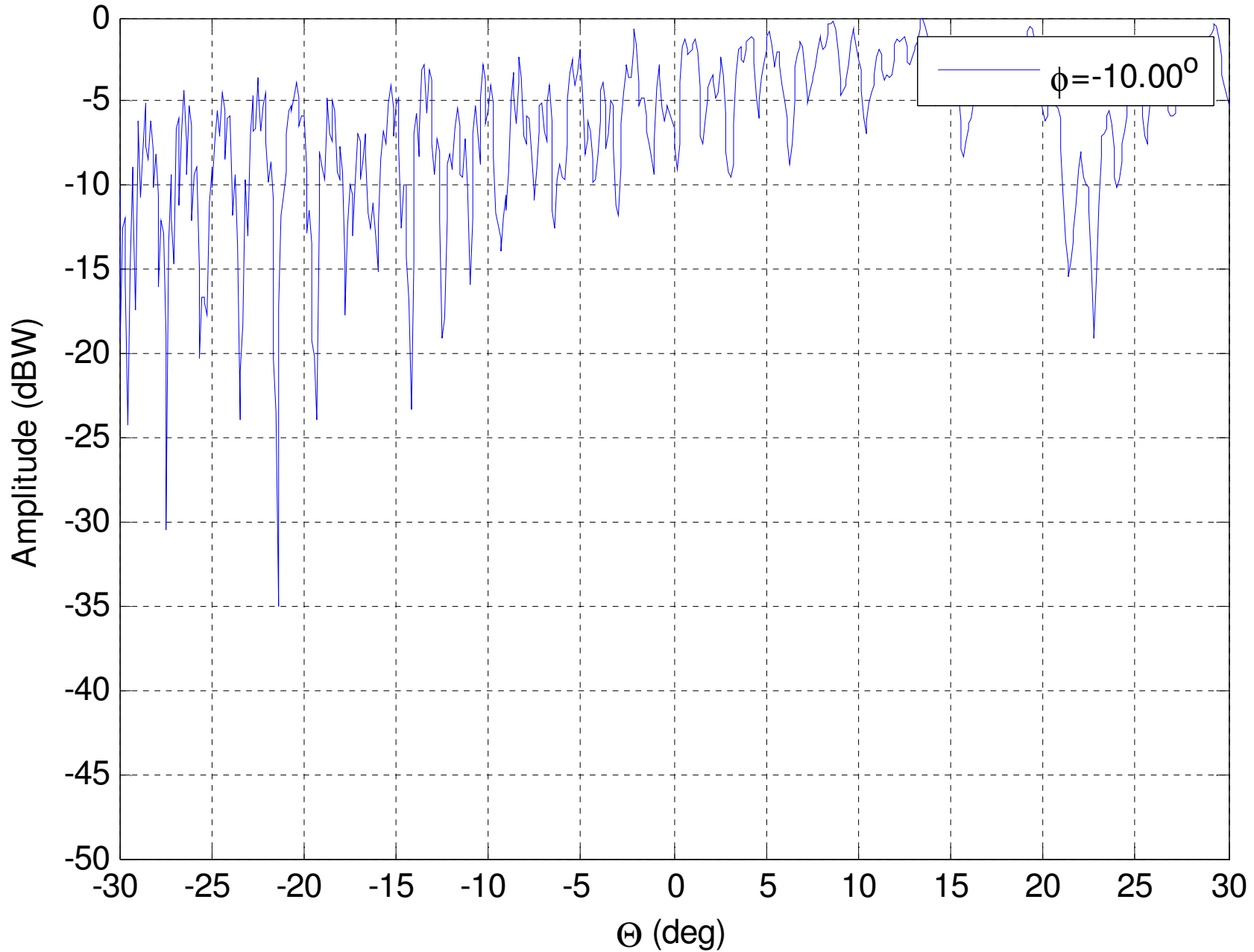
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp--20.cut, Peak: -2.62 dBW, Date: 06-Dec-2011



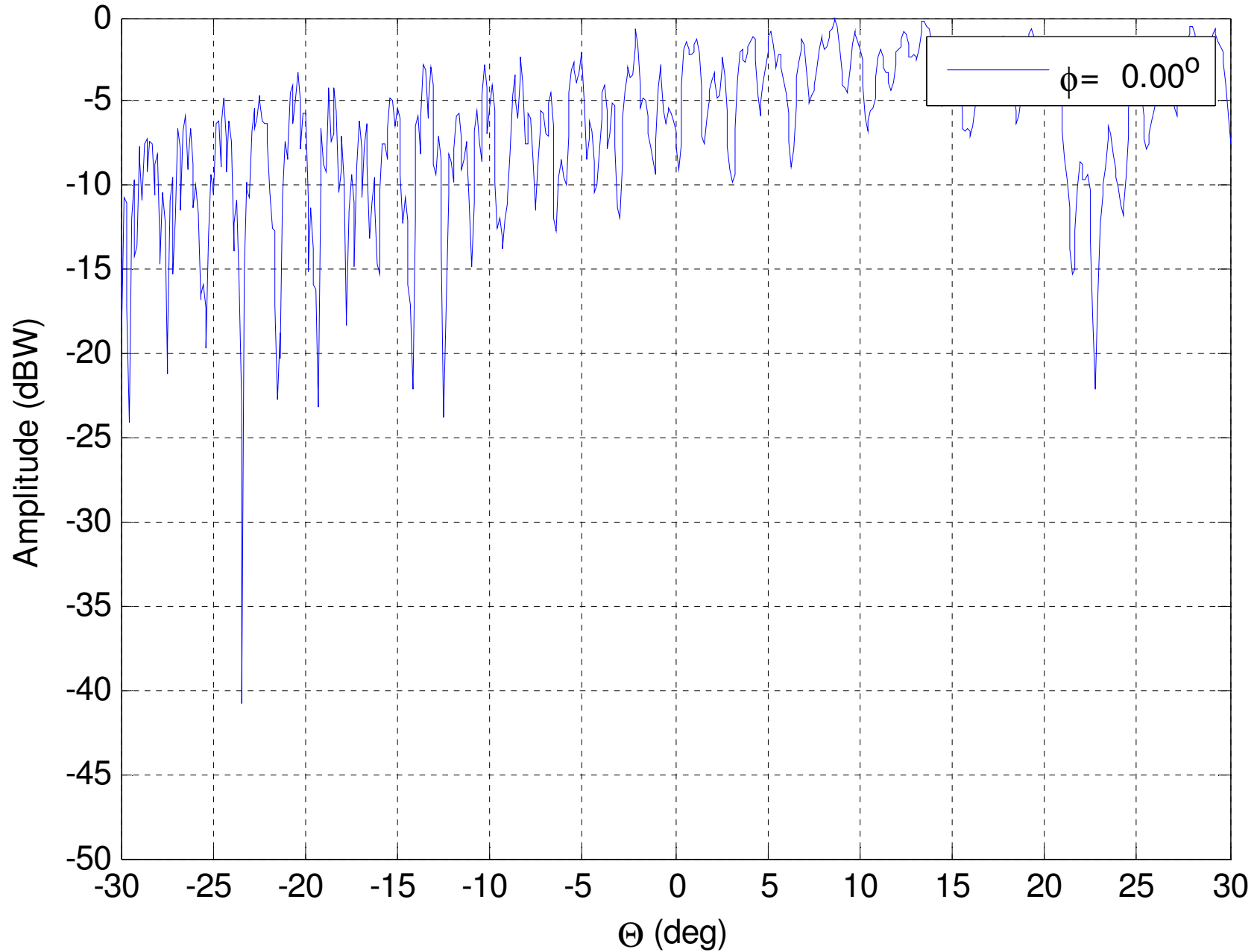
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp--10.cut, Peak: -2.45 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

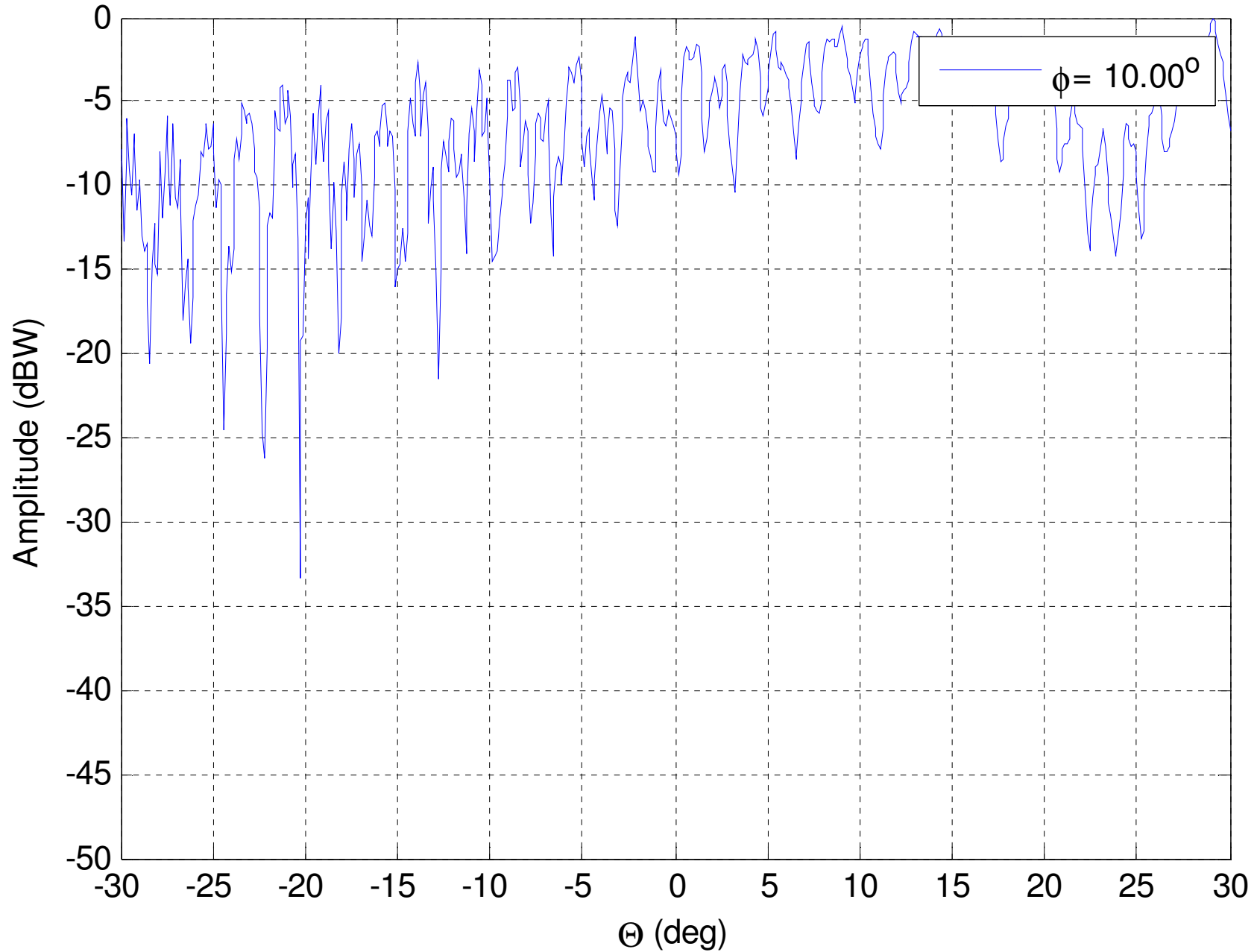
Input file: tx-17.7-lhcp-0.cut, Peak: -2.39 dBW, Date: 06-Dec-2011





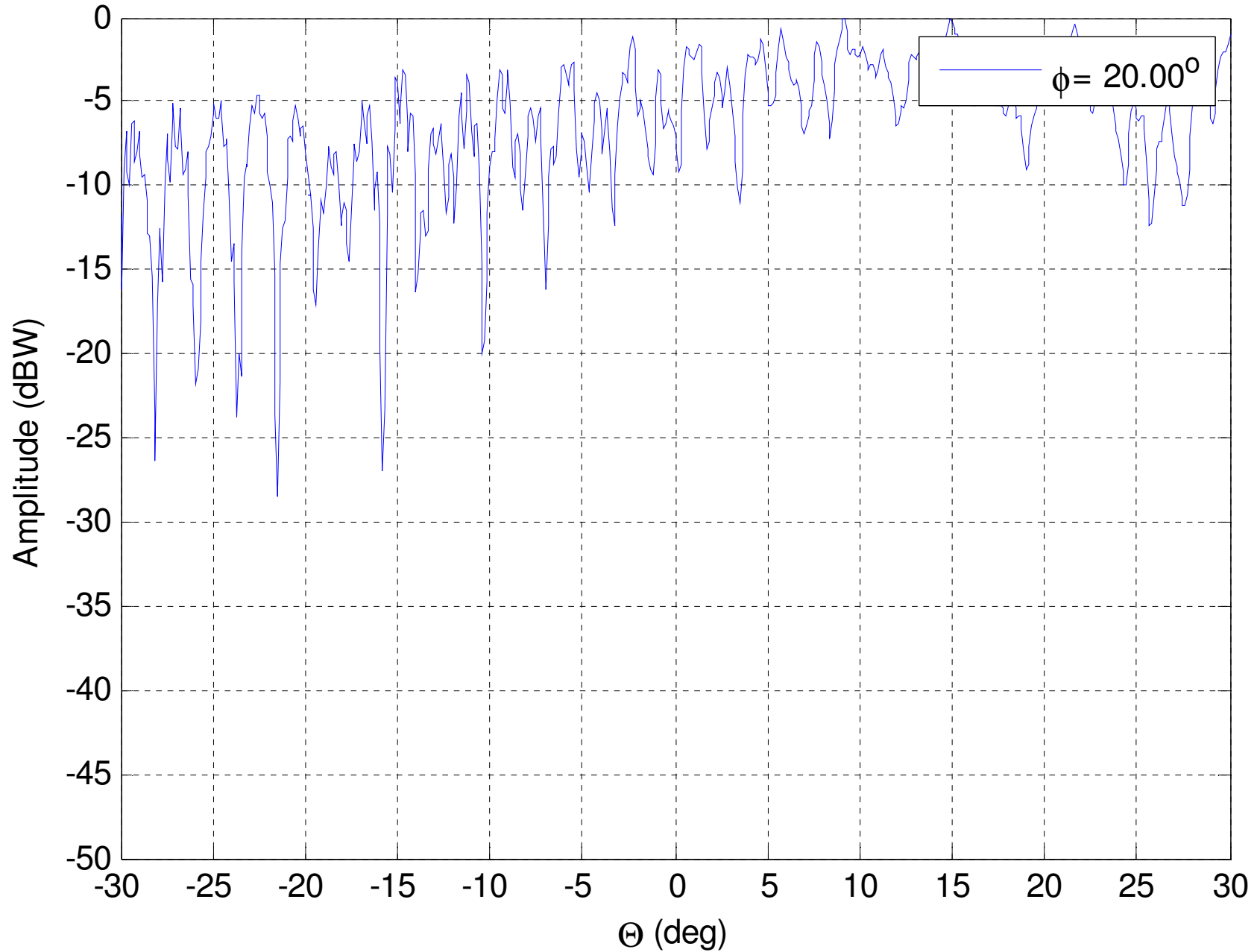
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp-10.cut, Peak: -2.11 dBW, Date: 06-Dec-2011



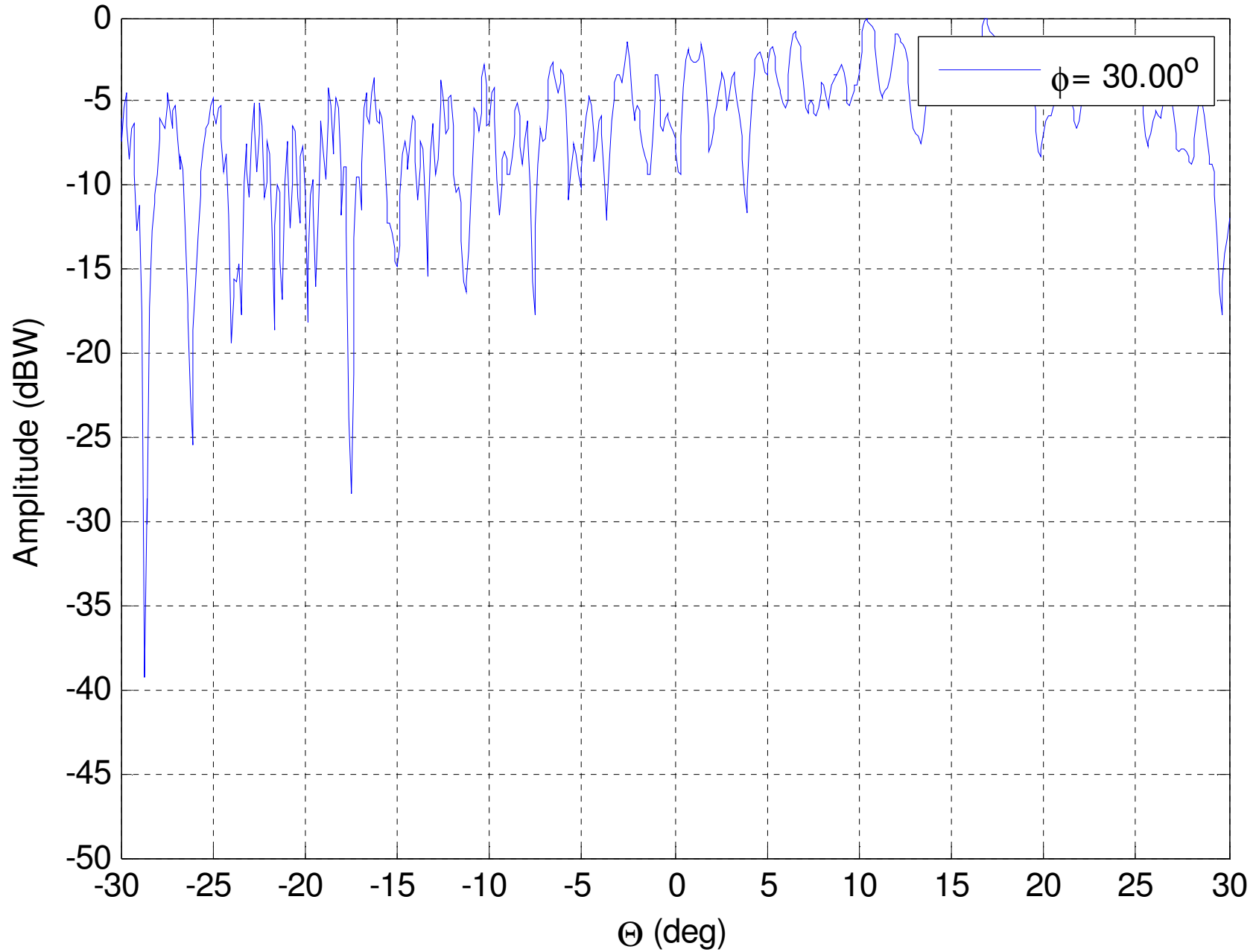
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp-20.cut, Peak: -2.12 dBW, Date: 06-Dec-2011



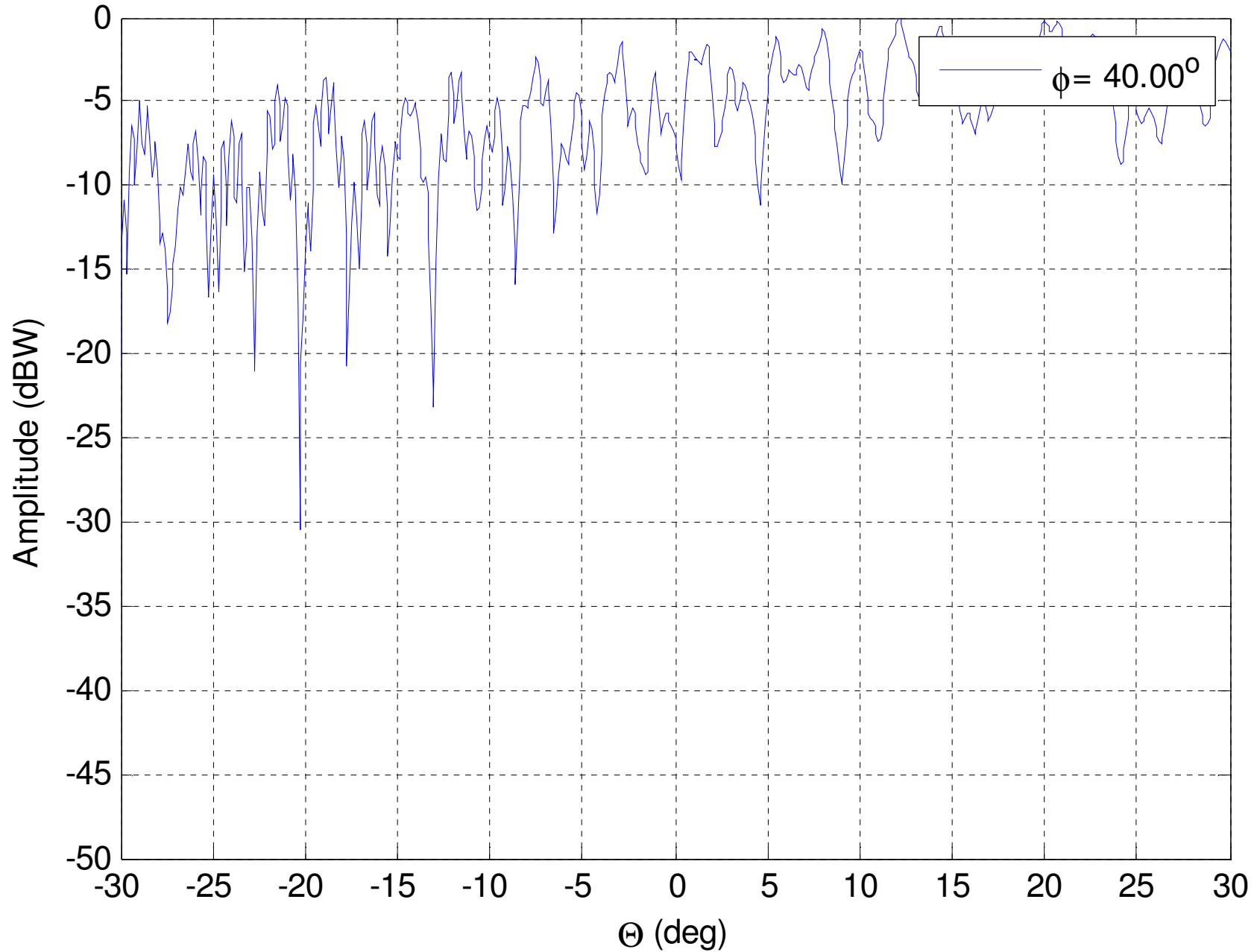
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp-30.cut, Peak: -1.94 dBW, Date: 06-Dec-2011



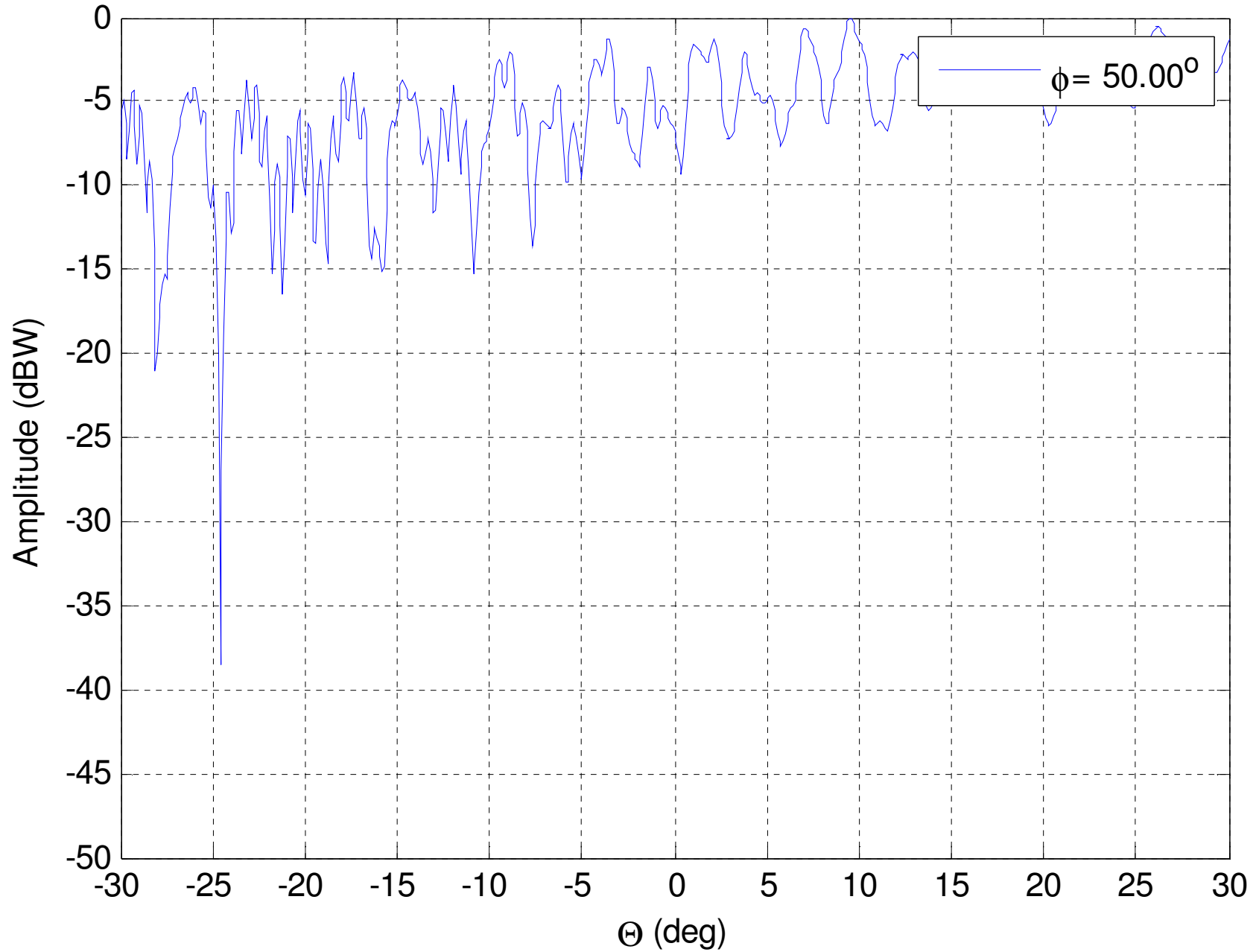
# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp-40.cut, Peak: -1.93 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp-50.cut, Peak: -2.27 dBW, Date: 06-Dec-2011



# Normalized pattern cuts - farfield

Input file: tx-17.7-lhcp-60.cut, Peak: -1.54 dBW, Date: 06-Dec-2011

