

1.8m (6 ft) Low Profile antennas



General Specifications

Nominal diameter	1.8m (6 ft)
Polarization	Single, Vertical or Horizontal
Radio interface	Direct mount for RFU-C type ODU
Antenna color	Gray (Pantone 443C)
Radome color	White (RAL 9016)
Radome type	Flexible
Packing type	Plywood crate
Gross weight, kg	165 ±8
Packed dimensions, mm	L x W x H : 2100 x 560 x 2100
Packing Volume, m ³	2.47

Electrical Specifications

Antenna model	Am-6-6-CR	Am-6-7_8-CR	Am-6-11W-CR	Am-6-13-CR
Frequency Band (GHz)	5.925 - 7.125	7.125 - 8.500	10.000 - 11.700	12.750 - 13.250
Waveguide Interface	UDR70	UBR84	UBR100	UBR120
Gain (dBi) Low	38.4	40.0	42.9	45.0
Gain (dBi) Mid	39.2	40.8	43.5	45.2
Gain (dBi) High	40.0	41.5	44.3	45.3
3 dB BW (°)	1.8	1.5	1.1	0.9
VSWR	1.30	1.30	1.30	1.30
F/B Ratio (dB)	65	67	70	71
XPD (dB)	30	30	30	30
ETSI Compliance	R1, C3	R1, C3	R1, C3	R1, C3
RPE Number	BL10572	BL10576	BL10581	BL10607

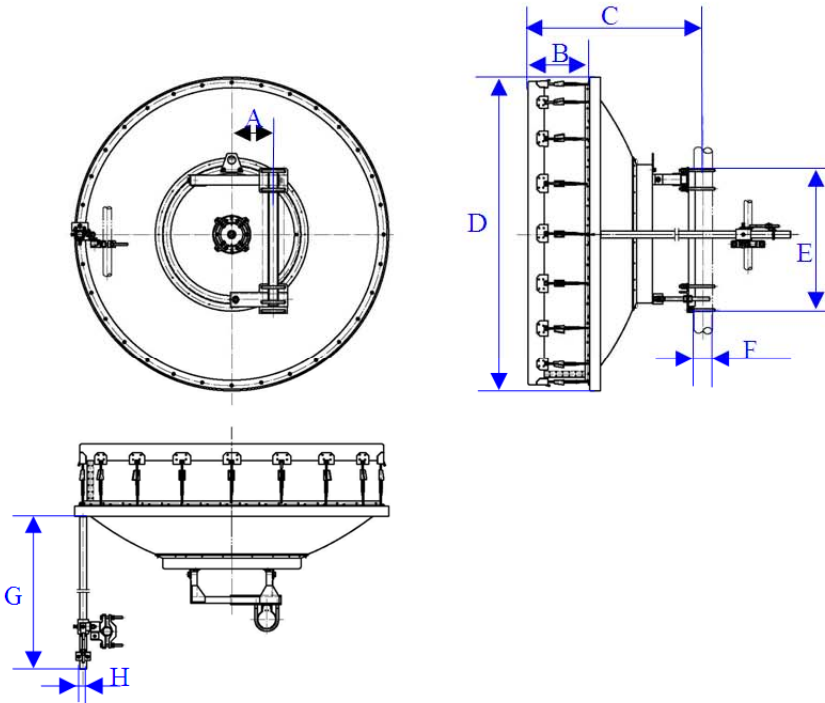
Electrical Specifications

Antenna model	Am-6-15-CR	Am-6-18-CR	Am-6-23-CR
Frequency Band (GHz)	14.400 - 15.350	17.700 – 19.700	21.200 - 23.600
Waveguide Interface	UBR140	UBR220	UBR220
Gain (dBi) Low	46.1	47.9	49.4
Gain (dBi) Mid	46.4	48.3	49.9
Gain (dBi) High	46.6	48.8	50.4
3 dB BW (°)	0.8	0.6	0.5
VSWR	1.30	1.30	1.30
F/B Ratio (dB)	74	76	74
XPD (dB)	30	30	30
ETSI Compliance	R2, C3	R2, C3	R3, C3
RPE Number	BL10608	BL10609	BL10610

Mechanical Specifications

Wind Velocity Operational, km/h	180
Wind Velocity Survival Rating, km/h	250
Ice Load, mm	25
Fine Azimuth Adjustment, Degrees	±5
Fine Elevation Adjustment, Degrees	±5
Mounting Pipe Diameter, mm	114
Net Weight, kg	97 ±5
Feed horn, Operational Pressure, kPa	50
Operational Temperature, °C	-45 to +60
Storage Temperature, °C	-55 to +70
Adjustment Struts	None
Fixed Support Struts	One (1)
Humidity	100%
Rain Intensity, mm/min	15
Solar Radiation, W/m ²	1120
Electrical properties	ETSI EN 302 217-4-2
Vibration	ETSI 300 019-2-4 V2.2.2 (2003-04) T4.1E.
RoHS 2002/95/EC	Compliant

Outline Dimensions

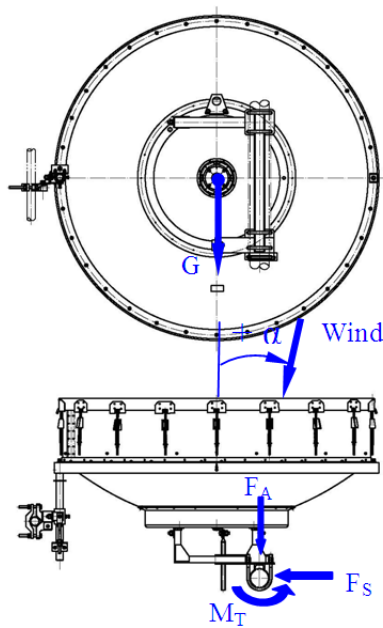


Antenna Dimensions, mm	
A	255
B	380
C	1076
D	1930
E	875
F	114
G	2000
H	φ42.3

Wind Forces

The axial, side and twisting moment forces stated are maximum loads applied to the tower by the antenna at a survival wind speed of 250 km/h (70 m/s). They are, in every case, the result of wind from the most critical direction for each parameter. The individual maximums may not occur simultaneously. All forces are referenced to the antenna mounting pipe.

Axial Force (F_A Max.), N	11150
Side Force (F_S Max.), N	5470
Twisting Moment (M_T Max.), N•m	4200
Angle α for M_T Max, Degree	-110



Radiation Pattern Envelope

Co-polar and X-polar response are represented for both horizontal and vertical polarizations. The curves are identified as follows:

HH – Response of horizontally polarized port to a horizontally polarized signal.

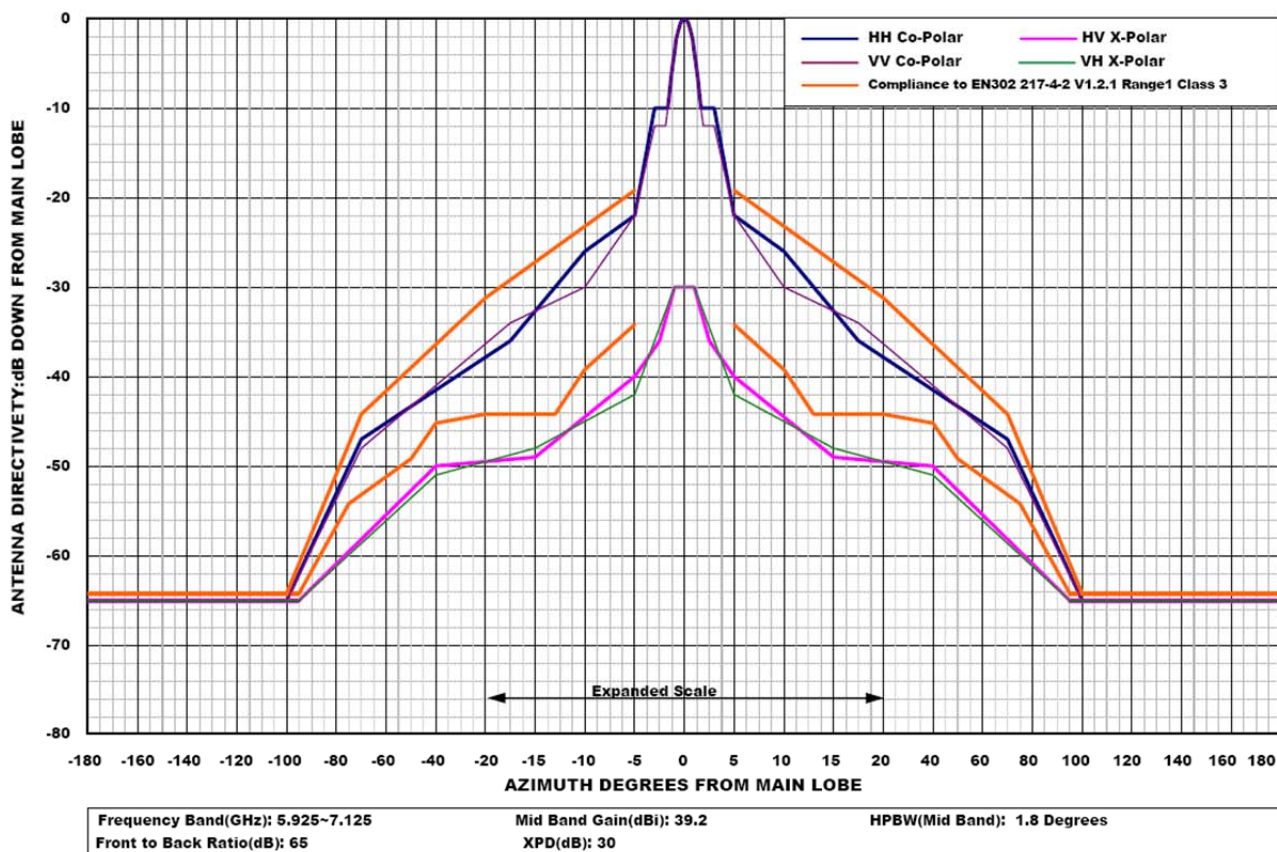
HV – Response of horizontally polarized port to a vertically polarized signal.

VV – Response of vertically polarized port to a vertically polarized signal.

VH – Response of vertically polarized port to a horizontally polarized signal.

Am-6-6-CR

1.8m 5.925-7.7125GHz RADIATION PATTERN ENVELOPE



Radiation Pattern Envelope

Co-polar and X-polar response are represented for both horizontal and vertical polarizations. The curves are identified as follows:

HH – Response of horizontally polarized port to a horizontally polarized signal.

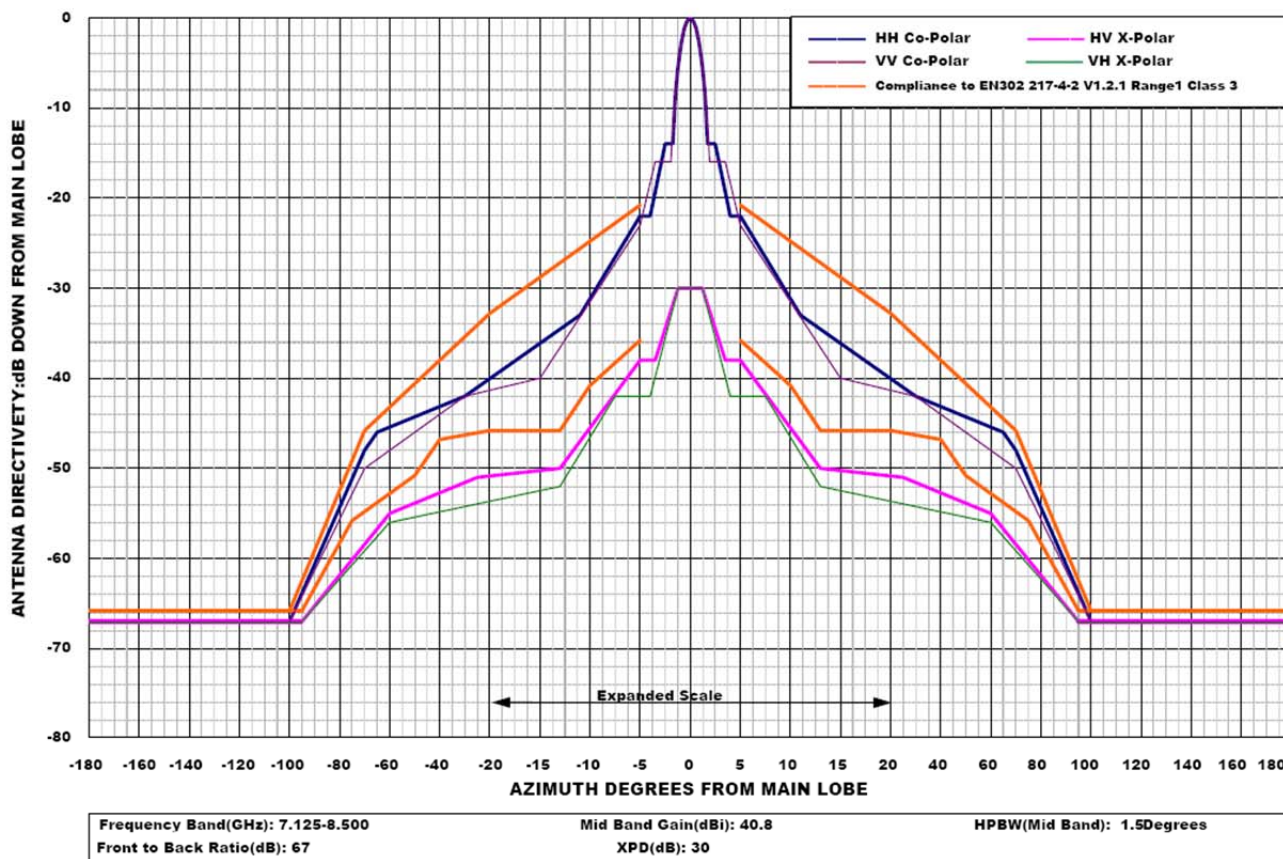
HV – Response of horizontally polarized port to a vertically polarized signal.

VV – Response of vertically polarized port to a vertically polarized signal.

VH – Response of vertically polarized port to a horizontally polarized signal.

Am-6-7_8-CR

1.8m 7.125-8.500GHz RADIATION PATTERN ENVELOPE



Radiation Pattern Envelope

Co-polar and X-polar response are represented for both horizontal and vertical polarizations. The curves are identified as follows:

HH – Response of horizontally polarized port to a horizontally polarized signal.

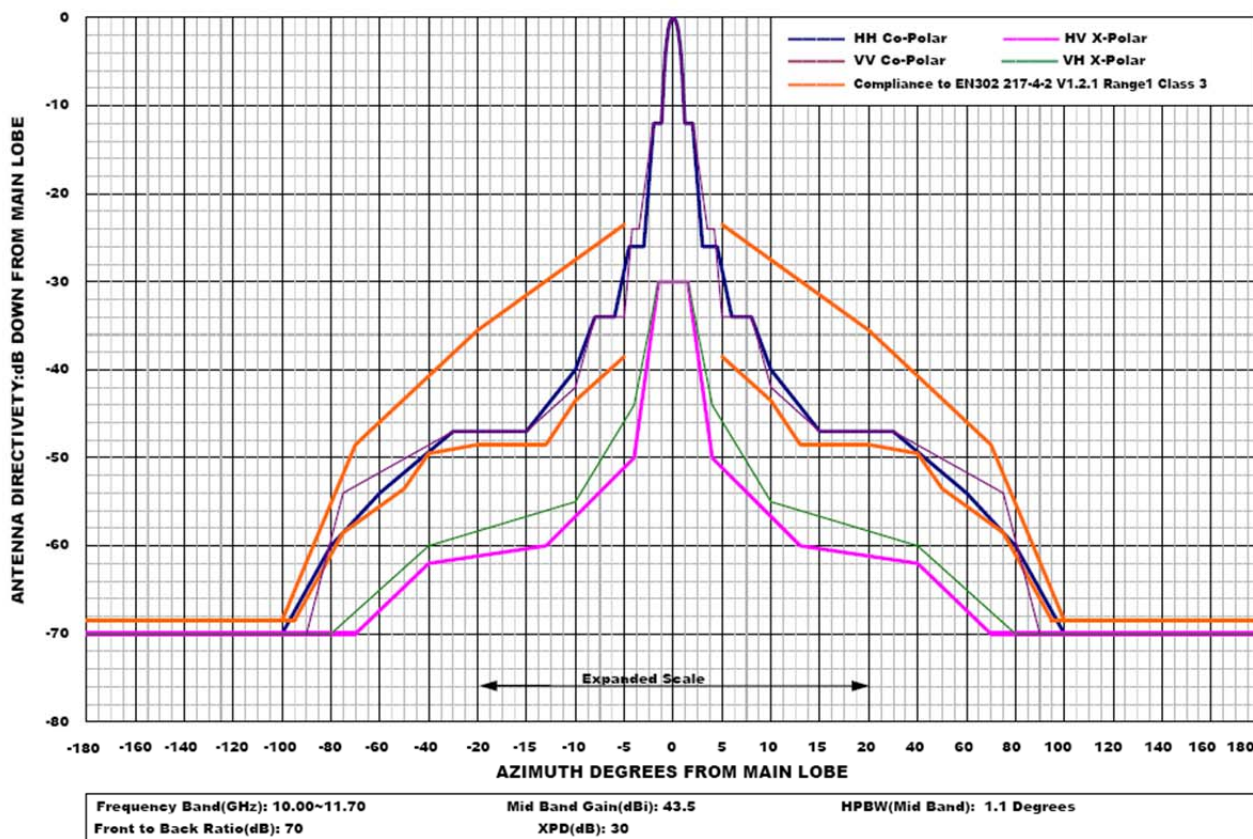
HV – Response of horizontally polarized port to a vertically polarized signal.

VV – Response of vertically polarized port to a vertically polarized signal.

VH – Response of vertically polarized port to a horizontally polarized signal.

Am-6-11W-CR

1.8m 10.00-11.70GHz RADIATION PATTERN ENVELOPE



Radiation Pattern Envelope

Co-polar and X-polar response are represented for both horizontal and vertical polarizations. The curves are identified as follows:

HH – Response of horizontally polarized port to a horizontally polarized signal.

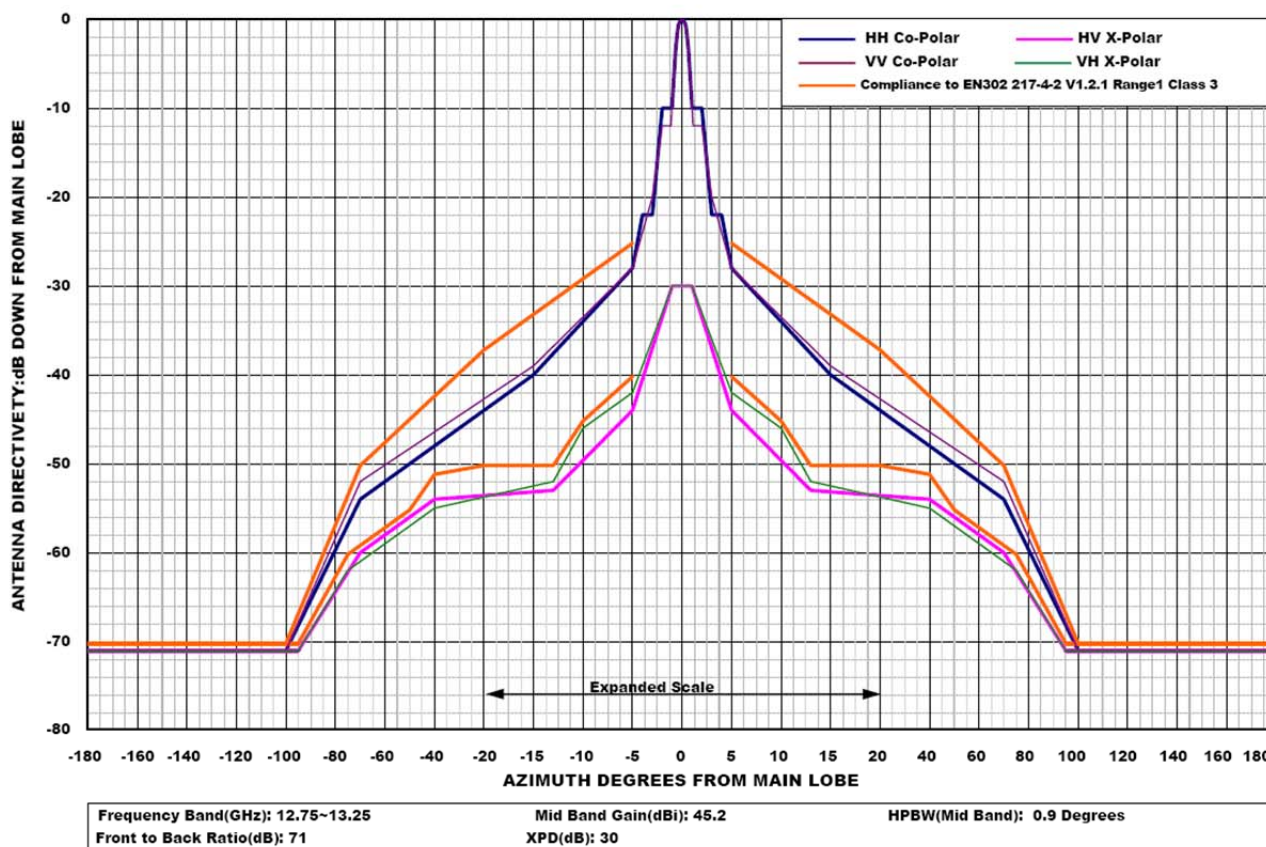
HV – Response of horizontally polarized port to a vertically polarized signal.

VV – Response of vertically polarized port to a vertically polarized signal.

VH – Response of vertically polarized port to a horizontally polarized signal.

Am-6-13-CR

1.8m 12.75-13.25GHz RADIATION PATTERN ENVELOPE



Radiation Pattern Envelope

Co-polar and X-polar response are represented for both horizontal and vertical polarizations. The curves are identified as follows:

HH – Response of horizontally polarized port to a horizontally polarized signal.

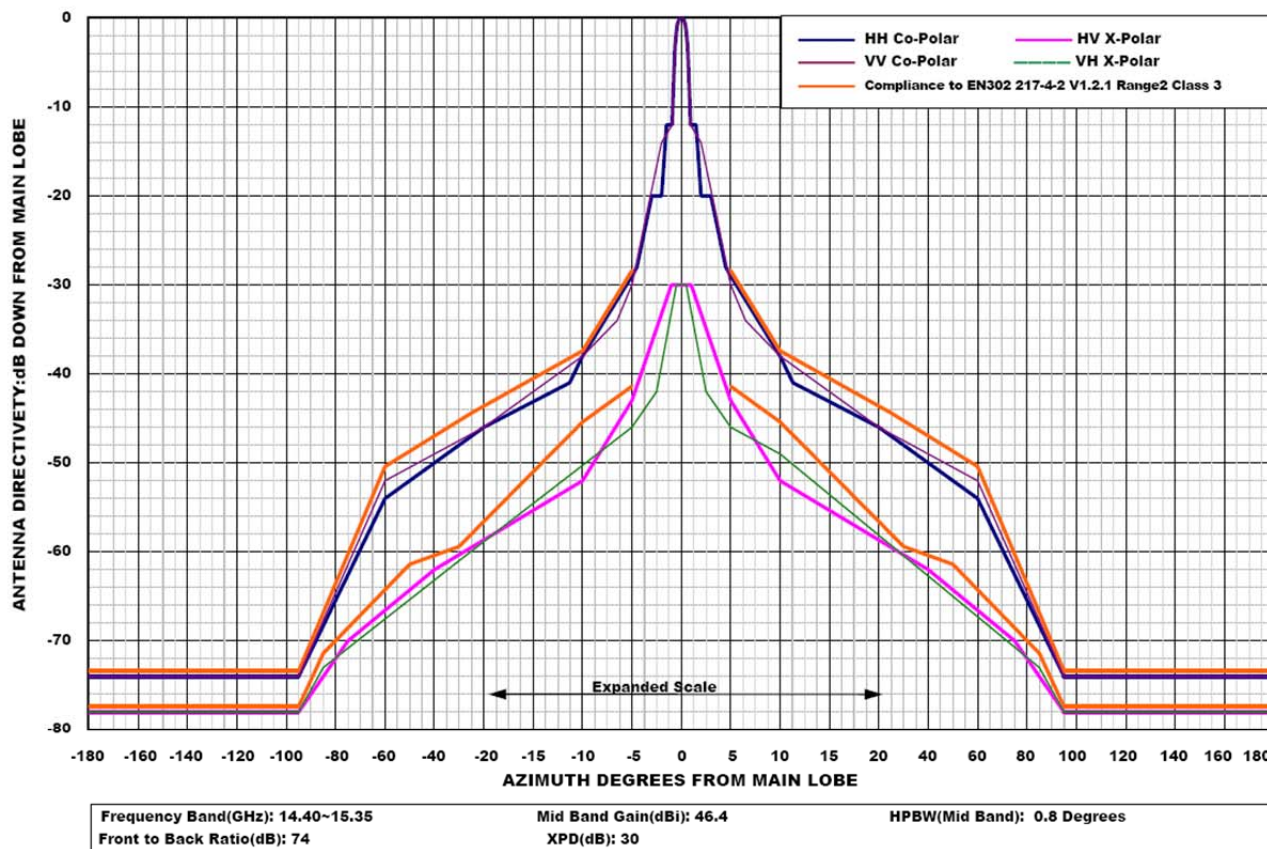
HV – Response of horizontally polarized port to a vertically polarized signal.

VV – Response of vertically polarized port to a vertically polarized signal.

VH – Response of vertically polarized port to a horizontally polarized signal.

Am-6-15-CR

1.8m 14.40-15.35GHz RADIATION PATTERN ENVELOPE



Radiation Pattern Envelope

Co-polar and X-polar response are represented for both horizontal and vertical polarizations. The curves are identified as follows:

HH – Response of horizontally polarized port to a horizontally polarized signal.

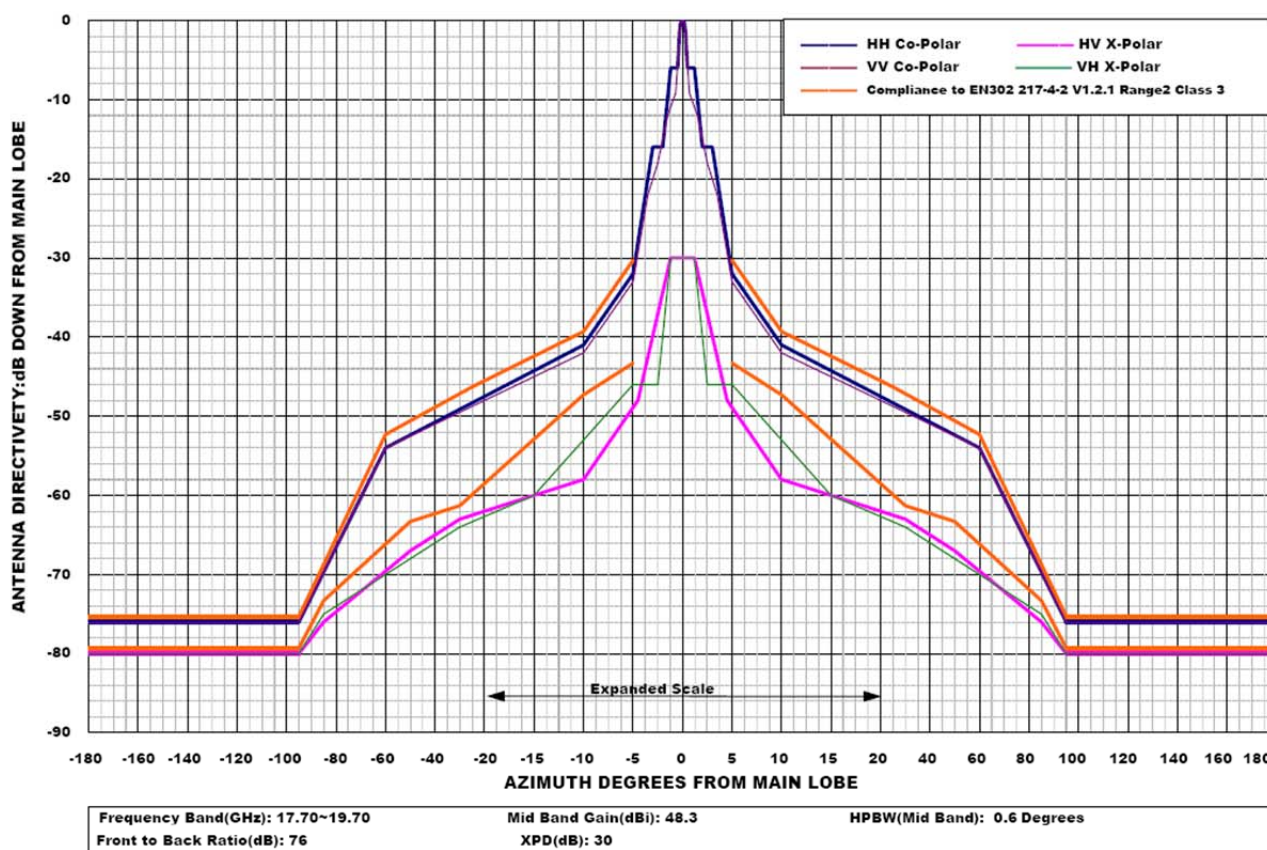
HV – Response of horizontally polarized port to a vertically polarized signal.

VV – Response of vertically polarized port to a vertically polarized signal.

VH – Response of vertically polarized port to a horizontally polarized signal.

Am-6-18-CR

1.8m 17.70-19.70GHz RADIATION PATTERN ENVELOPE



Radiation Pattern Envelope

Co-polar and X-polar response are represented for both horizontal and vertical polarizations. The curves are identified as follows:

HH – Response of horizontally polarized port to a horizontally polarized signal.

HV – Response of horizontally polarized port to a vertically polarized signal.

VV – Response of vertically polarized port to a vertically polarized signal.

VH – Response of vertically polarized port to a horizontally polarized signal.

Am-6-23-CR

1.8m 21.20-23.60GHz RADIATION PATTERN ENVELOPE

