

TX station: 6xBkr3

Gain solid integration : enabled

Site Name: Labelitaly

General data of Antenna System

TX station	6xBkr3
Site Name	Labelitaly
System of coordinates	Geographic
Longitude	00°00'00.000"
Latitude	00°00'00.000"
Ground level a.s.l. (m)	100.0
Antenna system height (m)	50.0
Transmitter power(Watt)	1000.000
Carrier wave frequency (MHz)	145.000
Antenna system central frequency (MHz)	145.000
Antenna base diagrams type 1	LABEL ITALY-BKR_3 YAGI 3 ELEM. VHF WB
Antenna base diagrams type 2	-
Polarization (H/V/C/X)	V
Transmitting cable attenuation (dB)	0.0
Additional attenuations(dB)	0.0
Base diagrams sectors (T = All, F = Front)	T
Velocity factor of cables to Antennas (0÷1)	0.66
Coordinate System(C = cartesian, P = polar)	P
Mast side / diameter(cm):	10.0
Mast cross section (T/Q/C)	C
Structure rotation w.r.t. North (°)	0.0
Mast rotation w.r.t. North (°)	0.0

Information about antennas used in the System

	<i>Antenna type 1</i>
Manufacturer	LABEL ITALY
Antenna model	BKR_3 YAGI 3 ELEM.
Band start(MHz)	140
Band stop(MHz)	174
diagrams Frequency(MHz)	140
Polariz (H,V,C,X)	V
Vertical dist (cm)	155
Height (cm)	109
Width (cm)	6
Thickness (cm)	88
Weight (Kg)	6
Maximum power (KW)	2
Gain (dBd)	4.6
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	20
R.C.Phase (°)	0

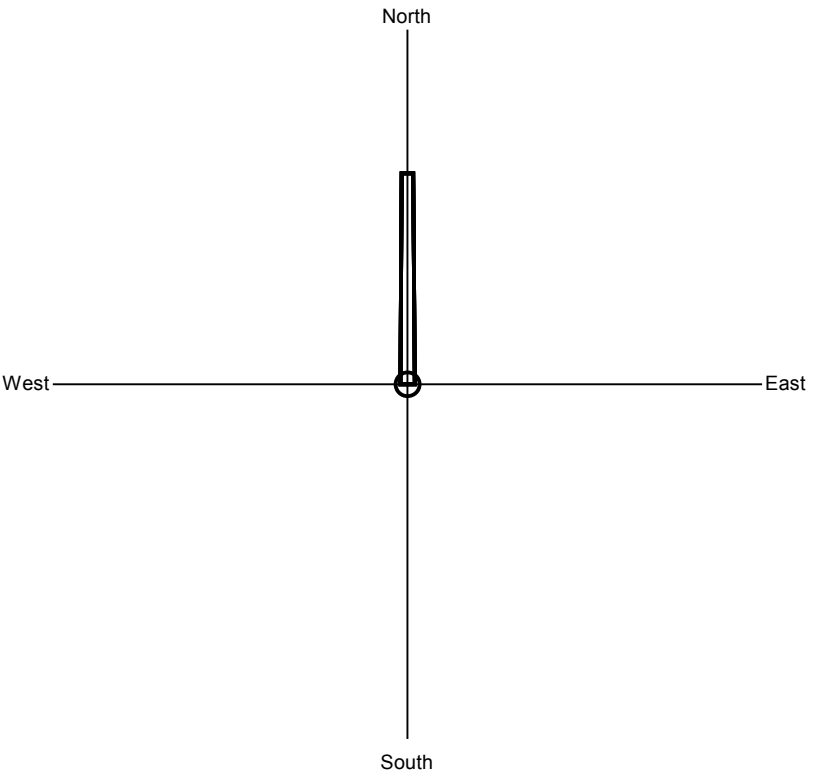
TX station: 6xBkr3
Frequency: 145.00 MHz
Gain solid integration : enabled

Site Name: Labelitaly

Geometr. and electrical data of Antenna System

	<i>Power</i> (%)	<i>Tilt</i> (°)	<i>Az.</i> (°/N)	<i>Phase</i> (°)	<i>V dist.</i> (m)	<i>Scr-d</i> (cm)	<i>Scr-Az</i> (°/N)	<i>Rot.</i> (1÷4)	<i>Type</i> (1÷2)	<i>L cables</i> (cm)	<i>Car. phase</i> (°)
1	16.667	0	0	0 +0.0	4.50	0.0	0.0	1	1	500.0	0.0
2	16.667	0	0	0 +0.0	2.70	0.0	0.0	1	1	500.0	0.0
3	16.667	0	0	0 +0.0	0.90	0.0	0.0	1	1	500.0	0.0
4	16.667	0	0	0 +0.0	-0.90	0.0	0.0	1	1	500.0	0.0
5	16.667	0	0	0 +0.0	-2.70	0.0	0.0	1	1	500.0	0.0
6	16.667	0	0	0 +0.0	-4.50	0.0	0.0	1	1	500.0	0.0

Plan of antenna system



Side of antenna system



TX station: 6xBkr3
Frequency: 145.00 MHz
Gain solid integration : enabled

Site Name: Labelitaly

Antennas arrays data

A. Antennas array azimuth (°/N)	0
B. Number of antennas	6
C. Nominal power supply (W)	1000.00
D. Losses (addit. + cables) (dB)	0.0
E. Effective power supply (W)	1000.00
F. Theor. maximum gain (dBd)	11.23
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	11.23
I. Compensation losses (dB)	0.00
J. Effec. max gain [H - I] (dBd)	11.23
K. Effec. max gain (times)	13.28
L. Effec. max power [E * K] (KW)	13.2768
M. Max power depr. angle (°)	0.0
N. Max power az. angle (°)	350

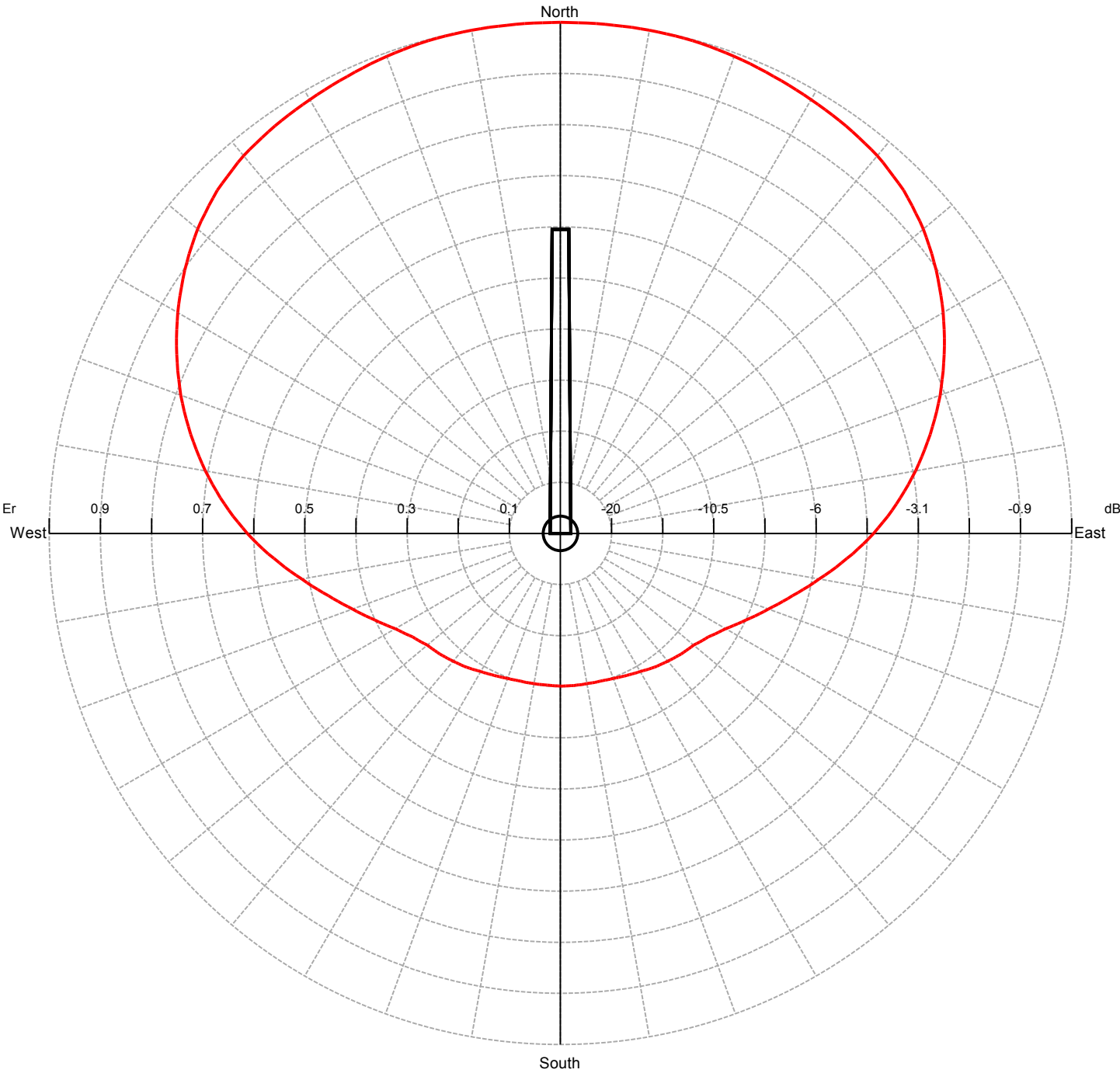
Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	11.2	90	7.0	180	0.7	270	7.0
10	11.2	100	5.4	190	0.7	280	8.2
20	11.2	110	4.0	200	0.8	290	9.2
30	11.1	120	2.7	210	1.1	300	10.0
40	10.9	130	1.9	220	1.5	310	10.6
50	10.6	140	1.5	230	1.9	320	10.9
60	10.0	150	1.1	240	2.7	330	11.1
70	9.2	160	0.8	250	4.0	340	11.2
80	8.2	170	0.7	260	5.4	350	11.2

TX station: 6xBkr3
Frequency: 145.00 MHz
Gain solid integration : enabled

Site Name: Labelitaly

Horizontal diagram at 0.0° depres. (Total Antenna)

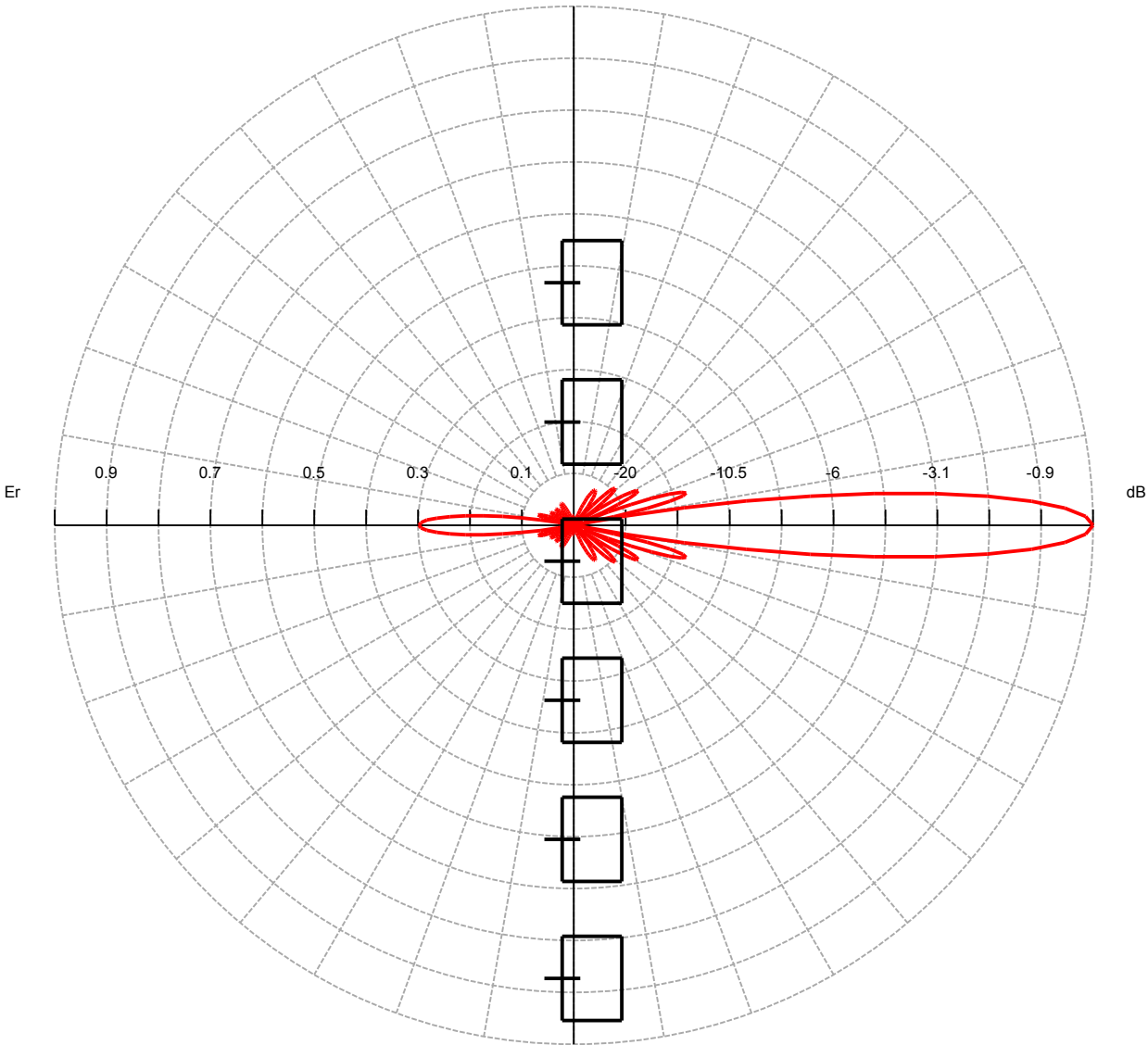


0.0° depres. (Total Antenna), Gain (dBd): 11.23 ERP T.Max(KW): 13.2768 ERP E.Max(KW): 13.2768

TX station: 6xBkr3
Frequency: 145.00 MHz
Gain solid integration : enabled

Site Name: Labelitaly

Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 11.23

ERP T.Max(KW): 13.2768 ERP E.Max(KW): 13.2768