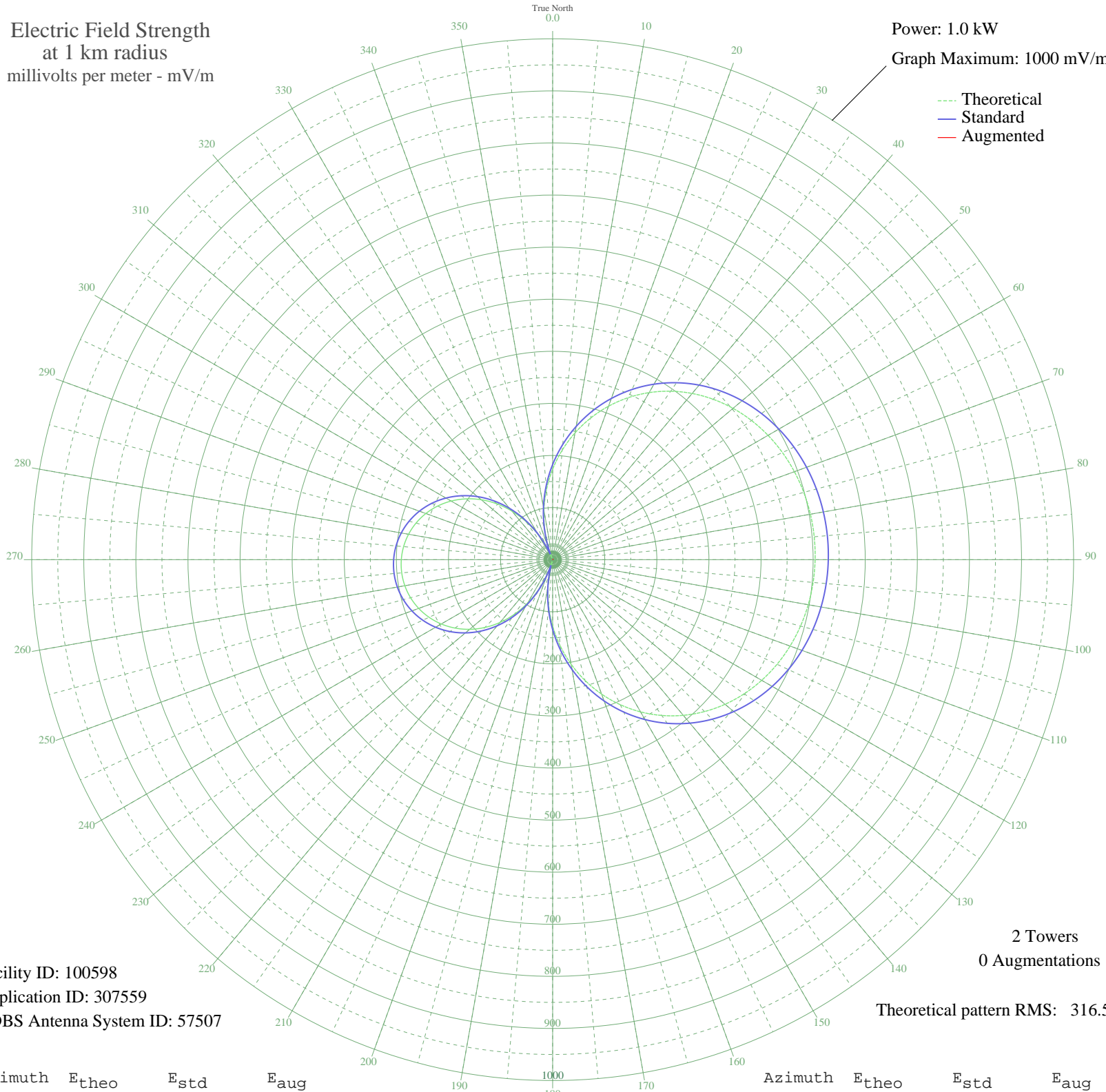


**- PONTA GROSSA, - Brazil -- 970 kHz**

Daytime

Electric Field Strength  
at 1 km radius  
millivolts per meter - mV/m

Power: 1.0 kW  
Graph Maximum: 1000 mV/m



Facility ID: 100598  
Application ID: 307559  
CDBS Antenna System ID: 57507

2 Towers  
0 Augmentations  
Theoretical pattern RMS: 316.50

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	173.64	182.64	
5	211.10	221.92	
10	247.14	259.72	
15	281.38	295.64	
20	313.48	329.33	
25	343.19	360.52	
30	370.34	389.01	
35	394.80	414.68	
40	416.54	437.50	
45	435.58	457.49	
50	452.00	474.72	
55	465.89	489.30	
60	477.40	501.38	
65	486.67	511.11	
70	493.84	518.65	
75	499.06	524.12	
80	502.41	527.64	
85	503.99	529.30	
90	503.81	529.11	
95	501.89	527.09	
100	498.17	523.19	
105	492.57	517.31	
110	484.98	509.35	
115	475.28	499.16	
120	463.30	486.59	
125	448.92	471.49	
130	431.99	453.72	
135	412.41	433.17	
140	390.13	409.78	
145	365.12	383.53	
150	337.45	354.49	
155	307.24	322.79	
160	274.69	288.63	
165	240.07	252.30	
170	203.71	214.17	
175	166.02	174.65	

The theoretical pattern is used to create the standard pattern. Augmentations (if any) expand the standard pattern in specified directions. See Sections 73.150 and 73.152 of the FCC's Rules.

AM coverage may not mirror the pattern shown here. Additional factors such as ground conductivity or skywave propagation affect how far the AM signal will travel.

Patterns for stations outside the USA are based on notified parameters.

AM directional patterns created before 1982 used units of 1 mV/m at 1 mile, not one kilometer. The pattern values on such plots at 1 mile will be 0.62137 of the values listed here. Measured pattern values may vary from values shown here.

Plot is best printed on 11" by 17" or larger paper.

06 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	127.43	134.24	
185	88.42	93.47	
190	49.49	53.08	
195	11.12	15.91	
200	26.23	29.59	
205	62.12	66.12	
210	96.16	101.55	
215	128.02	134.86	
220	157.42	165.65	
225	184.14	193.65	
230	208.03	218.70	
235	228.97	240.66	
240	246.89	259.46	
245	261.77	275.07	
250	273.59	287.47	
255	282.36	296.68	
260	288.10	302.70	
265	290.82	305.55	
270	290.51	305.23	
275	287.20	301.75	
280	280.85	295.09	
285	271.47	285.25	
290	259.04	272.20	
295	243.55	255.95	
300	225.02	236.52	
305	203.49	213.93	
310	179.02	188.28	
315	151.75	159.70	
320	121.84	128.39	
325	89.52	94.62	
330	55.08	58.84	
335	18.87	22.57	
340	18.72	22.43	
345	57.25	61.07	
350	96.24	101.62	
355	135.20	142.37	