

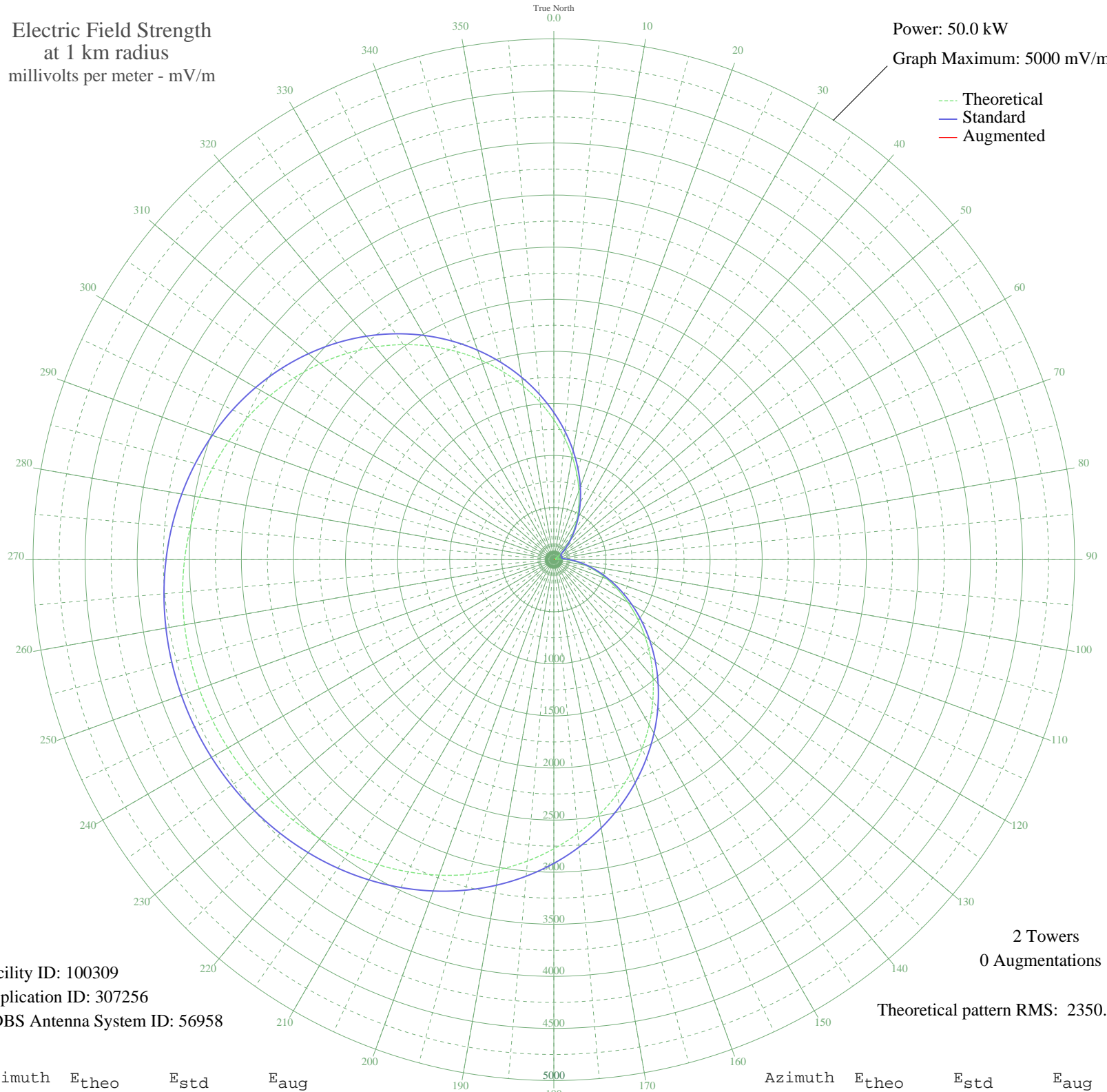
# ZYJ-454 RIO DE JANEI, - Brazil -- 900 kHz

Daytime

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

Power: 50.0 kW  
Graph Maximum: 5000 mV/m

--- Theoretical  
— Standard  
— Augmented



Facility ID: 100309  
Application ID: 307256  
CDBS Antenna System ID: 56958

2 Towers  
0 Augmentations

Theoretical pattern RMS: 2350.62

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	1343.59	1412.80	
5	1173.97	1235.00	
10	1009.64	1062.83	
15	852.42	898.24	
20	703.99	743.07	
25	565.94	599.05	
30	439.65	467.82	
35	326.37	350.98	
40	227.15	250.27	
45	142.87	168.10	
50	74.28	108.78	
55	21.91	79.25	
60	13.79	77.20	
65	32.58	83.19	
70	34.29	83.94	
75	18.91	78.39	
80	13.43	77.13	
85	62.49	100.28	
90	127.88	154.21	
95	209.07	232.25	
100	305.37	329.48	
105	415.92	443.25	
110	539.70	571.73	
115	675.51	713.32	
120	821.98	866.40	
125	977.57	1029.25	
130	1140.62	1200.05	
135	1309.33	1376.89	
140	1481.81	1557.75	
145	1656.13	1740.59	
150	1830.36	1923.37	
155	2002.58	2104.08	
160	2171.01	2280.82	
165	2333.95	2451.82	
170	2489.90	2615.49	
175	2637.57	2770.48	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	2775.89	2915.67	
185	2904.03	3050.17	
190	3021.43	3173.40	
195	3127.74	3285.00	
200	3222.85	3384.84	
205	3306.84	3473.01	
210	3379.96	3549.77	
215	3442.56	3615.49	
220	3495.09	3670.63	
225	3538.03	3715.71	
230	3571.85	3751.20	
235	3596.97	3777.58	
240	3613.77	3795.21	
245	3622.49	3804.37	
250	3623.28	3805.20	
255	3616.15	3797.72	
260	3600.99	3781.80	
265	3577.55	3757.20	
270	3545.51	3723.56	
275	3504.43	3680.44	
280	3453.86	3627.35	
285	3393.31	3563.78	
290	3322.33	3489.27	
295	3240.53	3403.40	
300	3147.65	3305.91	
305	3043.58	3196.66	
310	2928.38	3075.74	
315	2802.35	2943.44	
320	2666.01	2800.34	
325	2520.13	2647.22	
330	2365.74	2485.18	
335	2204.08	2315.53	
340	2036.63	2139.80	
345	1865.02	1959.74	
350	1691.05	1777.22	
355	1516.59	1594.22	

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