

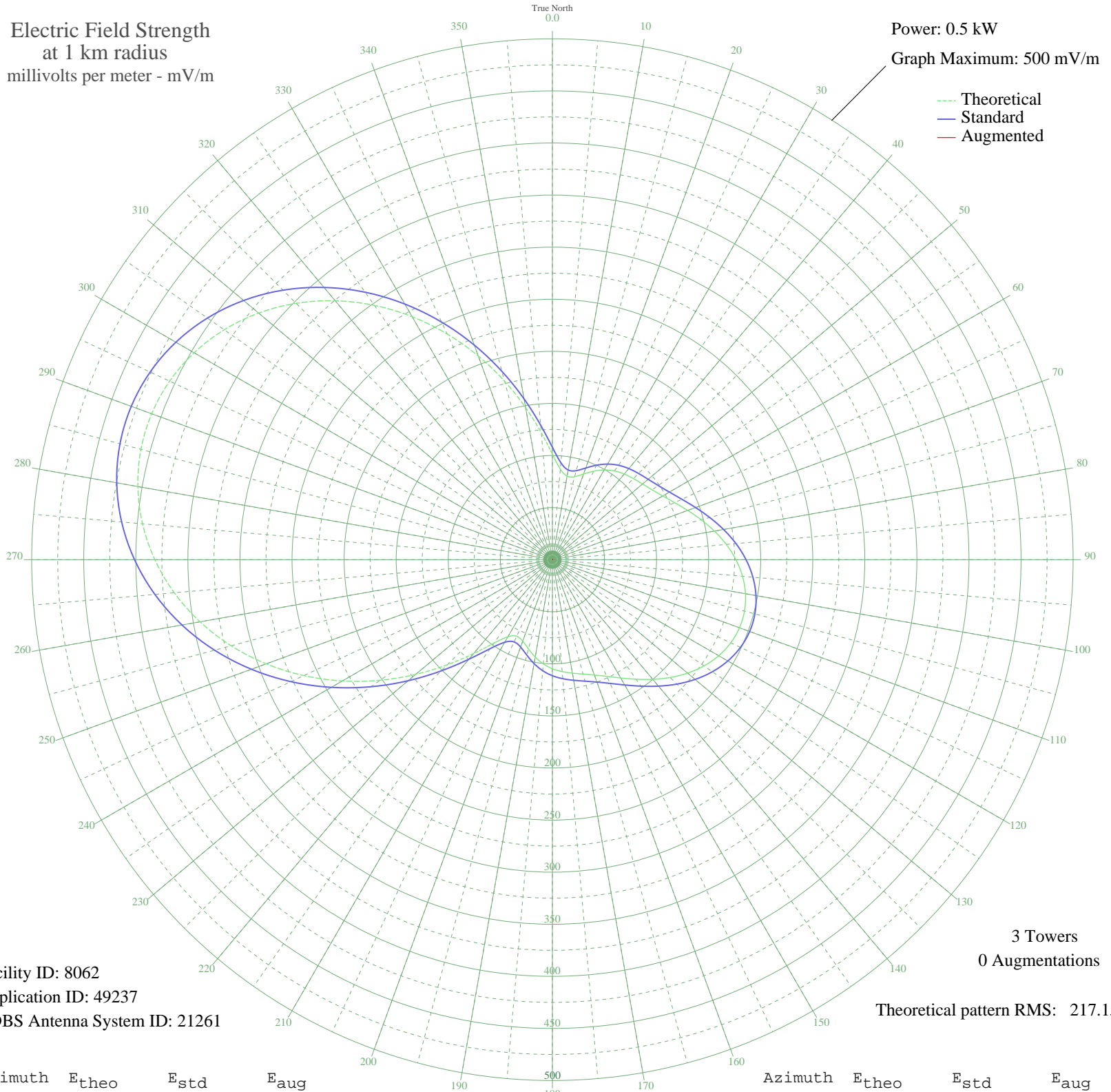
WSTN SOMERVILLE, TN BL-19821119AC 1410 kHz

Daytime

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

Power: 0.5 kW  
Graph Maximum: 500 mV/m

--- Theoretical  
— Standard  
— Augmented



Facility ID: 8062  
Application ID: 49237  
CDBS Antenna System ID: 21261

3 Towers  
0 Augmentations

Theoretical pattern RMS: 217.15

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	101.25	107.85	
5	87.28	93.42	
10	81.40	87.37	
15	82.44	88.44	
20	87.47	93.62	
25	93.69	100.04	
30	99.40	105.94	
35	103.92	110.62	
40	107.31	114.12	
45	110.08	117.00	
50	113.01	120.04	
55	116.91	124.08	
60	122.34	129.73	
65	129.51	137.19	
70	138.22	146.26	
75	147.94	156.39	
80	157.98	166.87	
85	167.63	176.94	
90	176.23	185.93	
95	183.24	193.26	
100	188.24	198.48	
105	190.94	201.30	
110	191.18	201.56	
115	188.97	199.25	
120	184.42	194.48	
125	177.78	187.55	
130	169.45	178.85	
135	159.96	168.94	
140	149.95	158.48	
145	140.11	148.22	
150	131.15	138.89	
155	123.64	131.08	
160	117.86	125.07	
165	113.69	120.75	
170	110.63	117.56	
175	107.89	114.73	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	104.68	111.40	
185	100.41	106.98	
190	94.91	101.29	
195	88.69	94.88	
200	83.23	89.25	
205	81.13	87.10	
210	85.46	91.54	
215	97.84	104.32	
220	117.57	124.78	
225	142.73	150.96	
230	171.34	180.82	
235	201.81	212.67	
240	232.82	245.13	
245	263.32	277.08	
250	292.41	307.57	
255	319.36	335.82	
260	343.54	361.18	
265	364.47	383.12	
270	381.74	401.24	
275	395.05	415.20	
280	404.19	424.79	
285	409.02	429.85	
290	409.46	430.32	
295	405.51	426.17	
300	397.22	417.48	
305	384.73	404.37	
310	368.23	387.06	
315	348.00	365.85	
320	324.43	341.14	
325	297.99	313.42	
330	269.27	283.32	
335	238.99	251.60	
340	208.00	219.15	
345	177.33	187.08	
350	148.23	156.70	
355	122.24	129.63	

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.

10 Nov 2011

Prepared by Audio Division, Media Bureau  
Federal Communications Commission