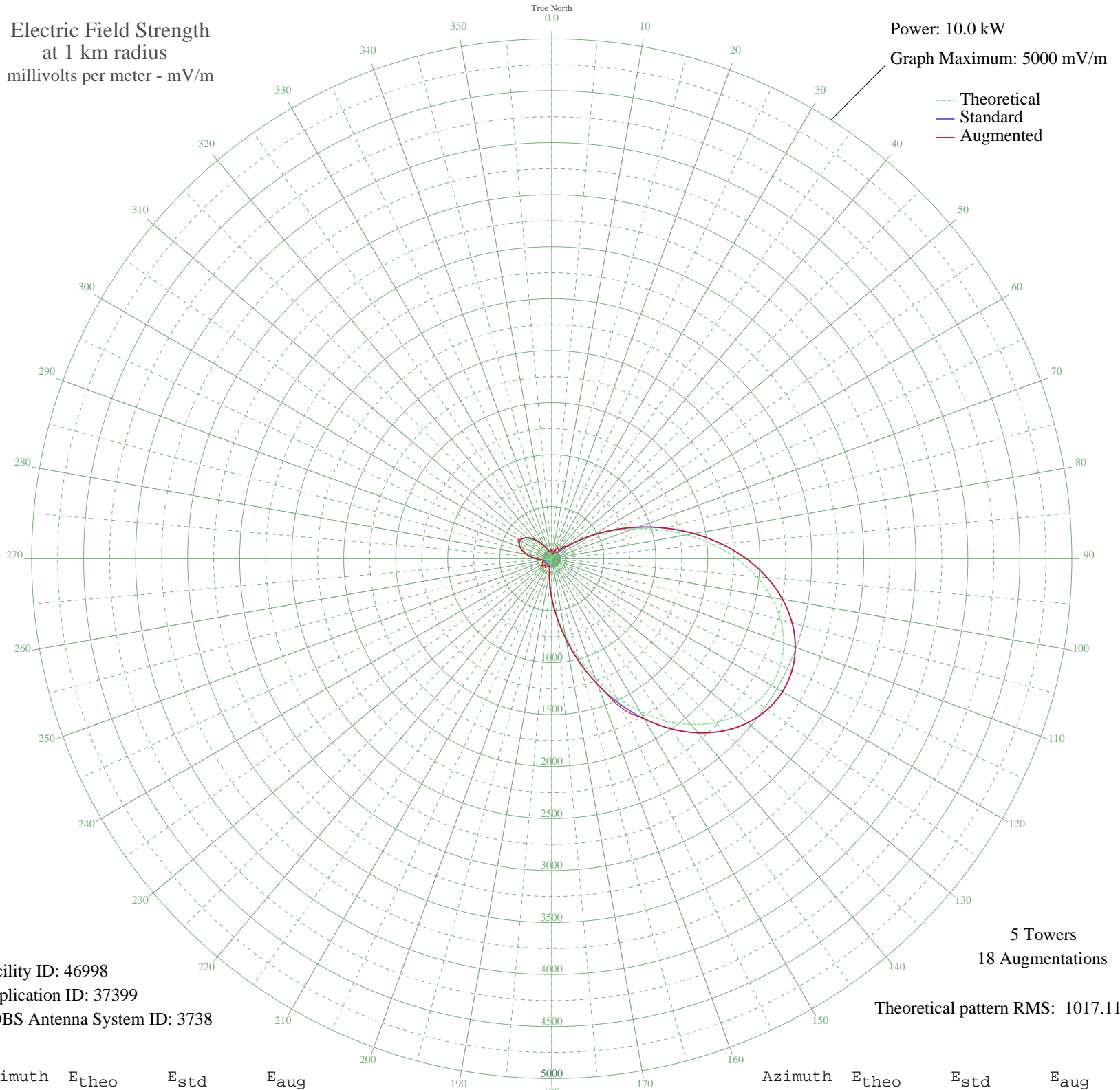


# WMAC MACON, GA BL-19811221AB 940 kHz

Nighttime

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

Power: 10.0 kW  
Graph Maximum: 5000 mV/m



Facility ID: 46998  
Application ID: 37399  
CDBS Antenna System ID: 3738

5 Towers  
18 Augmentations

Theoretical pattern RMS: 1017.11

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	6.27	70.72	71.79
5	0.87	70.42	46.15
10	6.35	70.73	50.24
15	6.95	70.79	52.54
20	1.75	70.44	59.55
25	7.14	70.81	102.17
30	14.41	72.02	116.54
35	12.15	71.56	105.50
40	8.88	71.03	104.89
45	57.64	92.85	164.24
50	141.18	164.11	169.83
55	263.25	285.24	285.24
60	423.65	450.37	450.37
65	618.14	652.86	652.86
70	839.11	883.87	883.87
75	1076.58	1132.60	1132.60
80	1319.53	1387.29	1387.29
85	1556.96	1636.33	1636.33
90	1778.94	1869.21	1869.21
95	1977.07	2077.12	2077.12
100	2144.82	2253.16	2253.16
105	2277.40	2392.31	2392.31
110	2371.61	2491.18	2491.18
115	2425.45	2547.70	2547.70
120	2437.94	2560.80	2560.80
125	2408.84	2530.26	2530.26
130	2338.68	2456.62	2456.62
135	2228.82	2341.32	2341.32
140	2081.71	2186.93	2186.93
145	1901.14	1997.44	1997.44
150	1692.58	1778.60	1778.60
155	1463.32	1538.10	1583.48
160	1222.41	1285.46	1285.46
165	980.31	1031.73	1031.73
170	748.14	788.70	788.70
175	536.68	567.89	567.89

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.

03 Jul 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	355.08	379.42	379.42
185	209.72	231.19	231.19
190	103.27	129.28	129.28
195	34.30	79.09	80.57
200	2.39	70.46	78.86
205	14.78	72.10	85.67
210	12.16	71.56	88.88
215	3.42	70.50	104.26
220	4.46	70.57	100.79
225	7.42	70.84	79.81
230	4.61	70.58	111.84
235	2.02	70.44	125.87
240	8.63	70.99	102.03
245	10.74	71.31	96.68
250	4.38	70.56	96.49
255	12.99	71.72	81.56
260	42.00	83.08	83.08
265	81.35	110.70	110.70
270	128.04	151.76	151.76
275	177.94	199.67	199.67
280	226.41	247.93	247.93
285	268.85	290.94	290.94
290	301.29	324.10	324.10
295	320.70	344.02	346.12
300	325.29	348.74	367.89
305	314.65	337.80	337.80
310	289.74	312.26	312.26
315	252.87	274.69	274.69
320	207.49	228.96	228.96
325	157.89	180.12	180.12
330	108.73	134.13	134.13
335	64.53	97.72	97.72
340	29.04	76.73	76.73
345	4.63	70.58	70.58
350	8.14	70.93	82.36
355	10.71	71.30	96.56