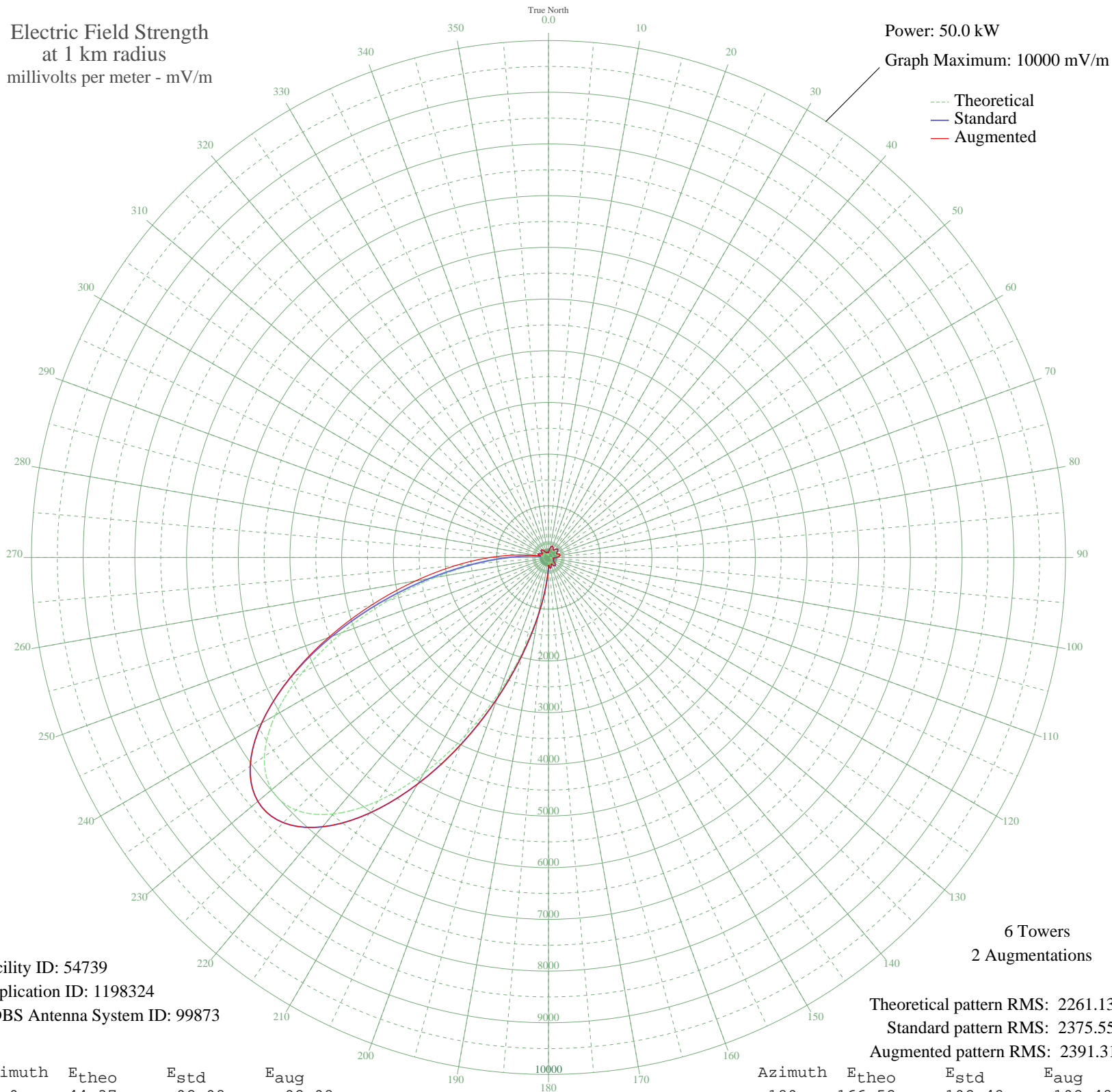


**KXEN ST. LOUIS, MO BML-20070731EOU 1010 kHz**

Daytime

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

Power: 50.0 kW  
Graph Maximum: 10000 mV/m



--- Theoretical  
— Standard  
— Augmented

Facility ID: 54739  
Application ID: 1198324  
CDBS Antenna System ID: 99873

6 Towers  
2 Augmentations

Theoretical pattern RMS: 2261.13  
Standard pattern RMS: 2375.55  
Augmented pattern RMS: 2391.31

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	44.37	92.98	92.98
5	99.34	131.74	131.74
10	157.75	184.15	184.15
15	197.50	222.44	222.44
20	207.15	231.92	231.92
25	186.77	211.97	211.97
30	153.98	180.60	180.60
35	145.71	172.87	172.87
40	175.35	200.94	200.94
45	207.95	232.71	232.71
50	215.15	239.81	239.81
55	191.88	216.95	216.95
60	155.86	182.36	182.36
65	144.44	171.69	171.69
70	170.46	196.24	196.24
75	199.23	224.14	224.14
80	203.25	228.08	228.08
85	175.42	201.00	201.00
90	122.39	151.62	151.62
95	59.73	102.02	102.02
100	26.76	85.23	85.23
105	57.34	100.50	100.50
110	74.19	112.00	112.00
115	69.12	108.36	108.36
120	59.91	102.14	102.14
125	80.48	116.69	116.69
130	123.29	152.43	152.43
135	161.87	188.05	188.05
140	180.39	205.79	205.79
145	171.18	196.93	196.93
150	136.88	164.72	164.72
155	102.39	134.29	134.29
160	119.65	149.19	149.19
165	168.72	194.58	194.58
170	186.60	211.81	211.81
175	136.76	164.60	164.60

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	166.52	192.48	192.48
185	513.00	544.62	544.62
190	1077.06	1133.78	1133.78
195	1837.92	1931.49	1931.49
200	2761.70	2900.90	2900.90
205	3784.74	3974.79	3974.79
210	4816.35	5057.81	5057.81
215	5749.39	6037.40	6037.40
220	6476.36	6800.65	6800.65
225	6907.66	7253.49	7253.49
230	6987.99	7337.83	7337.83
235	6706.90	7042.71	7042.71
240	6100.79	6406.34	6406.34
245	5245.93	5508.81	5526.74
250	4244.17	4457.11	4532.25
255	3205.03	3366.24	3533.37
260	2228.13	2340.92	2613.59
265	1389.94	1461.65	1813.71
270	737.24	778.27	1131.89
275	291.66	316.64	547.06
280	114.89	145.01	152.89
285	174.34	199.97	202.88
290	182.99	208.31	208.31
295	139.33	166.97	166.97
300	96.67	129.53	129.53
305	112.68	143.09	143.09
310	153.04	179.72	179.72
315	174.76	200.37	200.37
320	167.83	193.72	193.72
325	135.99	163.90	163.90
330	91.14	125.03	125.03
335	55.83	99.56	99.56
340	58.27	101.09	101.09
345	72.41	110.71	110.71
350	68.33	107.81	107.81
355	43.95	92.76	92.76

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.

20 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission