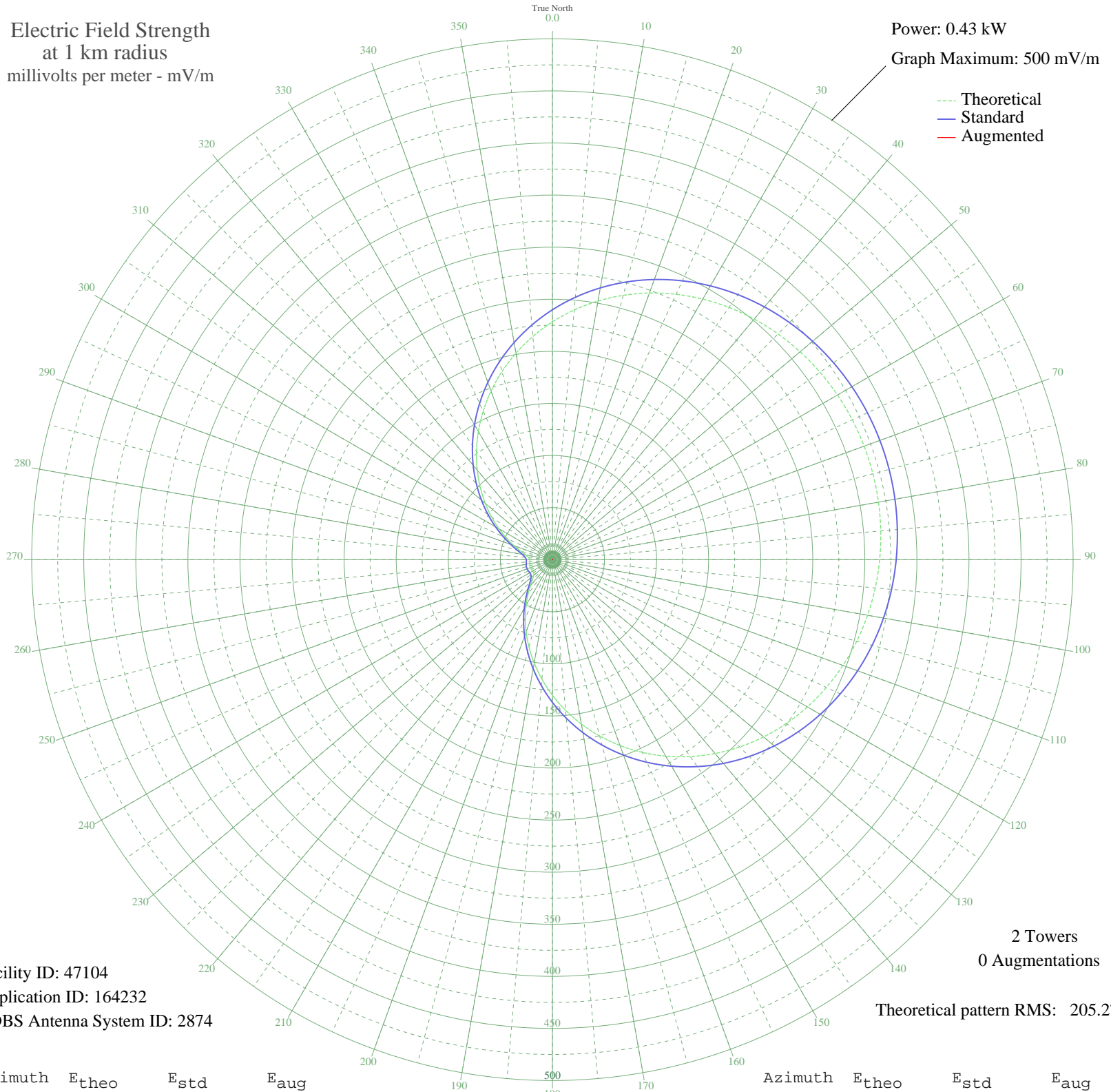


# WWFD FREDERICK, MD BL-19910827AC 820 kHz

Nighttime

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

Power: 0.43 kW  
Graph Maximum: 500 mV/m



Facility ID: 47104  
Application ID: 164232  
CDBS Antenna System ID: 2874

Theoretical pattern RMS: 205.27

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	228.22	239.86	
5	240.58	252.83	
10	252.09	264.91	
15	262.71	276.04	
20	272.38	286.19	
25	281.09	295.33	
30	288.83	303.46	
35	295.62	310.58	
40	301.47	316.72	
45	306.41	321.90	
50	310.47	326.17	
55	313.69	329.54	
60	316.09	332.06	
65	317.71	333.76	
70	318.54	334.64	
75	318.62	334.72	
80	317.93	334.00	
85	316.48	332.47	
90	314.24	330.12	
95	311.19	326.91	
100	307.29	322.83	
105	302.53	317.83	
110	296.86	311.88	
115	290.27	304.96	
120	282.71	297.04	
125	274.20	288.10	
130	264.72	278.15	
135	254.29	267.21	
140	242.95	255.32	
145	230.76	242.52	
150	217.78	228.91	
155	204.12	214.58	
160	189.89	199.66	
165	175.21	184.27	
170	160.24	168.58	
175	145.14	152.76	

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	130.07	136.97	
185	115.20	121.42	
190	100.73	106.28	
195	86.82	91.77	
200	73.68	78.07	
205	61.48	65.40	
210	50.46	54.01	
215	40.84	44.15	
220	32.93	36.14	
225	27.05	30.28	
230	23.41	26.73	
235	21.84	25.22	
240	21.68	25.07	
245	22.11	25.48	
250	22.50	25.85	
255	22.54	25.89	
260	22.20	25.57	
265	21.74	25.13	
270	21.72	25.11	
275	22.94	26.28	
280	26.14	29.39	
285	31.59	34.79	
290	39.11	42.39	
295	48.41	51.90	
300	59.18	63.02	
305	71.15	75.45	
310	84.13	88.95	
315	97.89	103.32	
320	112.27	118.35	
325	127.07	133.84	
330	142.11	149.59	
335	157.23	165.42	
340	172.24	181.15	
345	186.98	196.61	
350	201.31	211.64	
355	215.10	226.10	

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