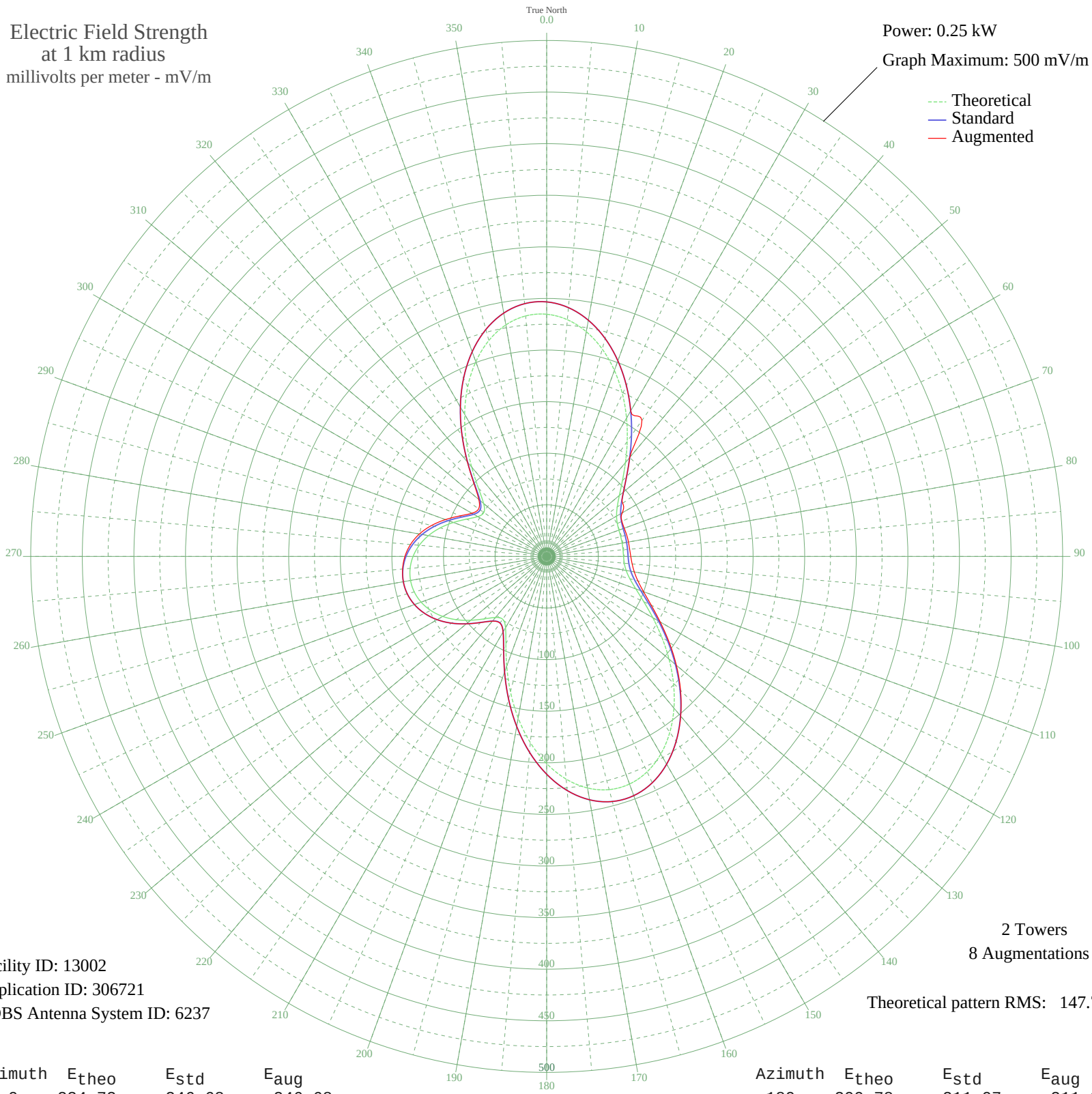
WTCA PLYMOUTH, IN BL-- 1050 kHz

Daytime

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



Power: 0.25 kW

Graph Maximum: 500 mV/m

Theoretical
Standard
Augmented

2 Towers
8 Augmentations

Facility ID: 13002
Application ID: 306721
CDBS Antenna System ID: 6237

Theoretical pattern RMS: 147.74

Azimuth	E_{theo}	E_{std}	E_{aug}
0	234.72	246.68	246.68
5	230.30	242.04	242.04
10	221.16	232.46	232.46
15	208.04	218.70	218.70
20	191.88	201.74	201.74
25	173.74	182.73	182.73
30	154.76	162.83	162.83
35	136.07	143.26	160.93
40	118.77	125.15	125.15
45	103.81	109.50	109.50
50	91.92	97.08	97.08
55	83.44	88.24	89.89
60	78.20	82.78	84.59
65	75.52	79.99	80.44
70	74.49	78.91	79.99
75	74.24	78.66	80.28
80	74.23	78.64	80.47
85	74.24	78.66	80.70
90	74.49	78.91	81.49
95	75.52	79.99	83.14
100	78.20	82.78	86.21
105	83.44	88.24	91.49
110	91.92	97.08	99.90
115	103.81	109.50	111.81
120	118.77	125.15	127.02
125	136.07	143.26	144.84
130	154.76	162.83	164.06
135	173.74	182.73	183.45
140	191.88	201.74	202.03
145	208.04	218.70	218.73
150	221.16	232.46	232.46
155	230.30	242.04	242.04
160	234.72	246.68	246.68
165	233.95	245.87	245.87
170	227.86	239.48	239.48
175	216.62	227.69	227.69

Azimuth	E_{theo}	E_{std}	E_{aug}
180	200.78	211.07	211.07
185	181.18	190.53	190.53
190	159.01	167.29	167.29
195	135.71	142.88	142.89
200	113.11	119.23	119.26
205	93.51	98.75	98.83
210	79.74	84.39	84.52
215	74.29	78.70	78.87
220	77.17	81.71	81.85
225	85.58	90.47	90.56
230	96.22	101.57	101.61
235	106.86	112.69	112.70
240	116.30	122.56	122.56
245	123.93	130.55	130.55
250	129.48	136.36	136.36
255	132.84	139.87	139.87
260	133.96	141.05	141.05
265	132.84	139.87	140.16
270	129.48	136.36	137.39
275	123.93	130.55	132.50
280	116.30	122.56	125.24
285	106.86	112.69	115.63
290	96.22	101.57	104.40
295	85.58	90.47	92.91
300	77.17	81.71	83.70
305	74.29	78.70	80.47
310	79.74	84.39	85.84
315	93.51	98.75	99.58
320	113.11	119.23	119.52
325	135.71	142.88	142.91
330	159.01	167.29	167.29
335	181.18	190.53	190.53
340	200.78	211.08	211.08
345	216.62	227.69	227.69
350	227.86	239.48	239.48
355	233.95	245.87	245.87

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