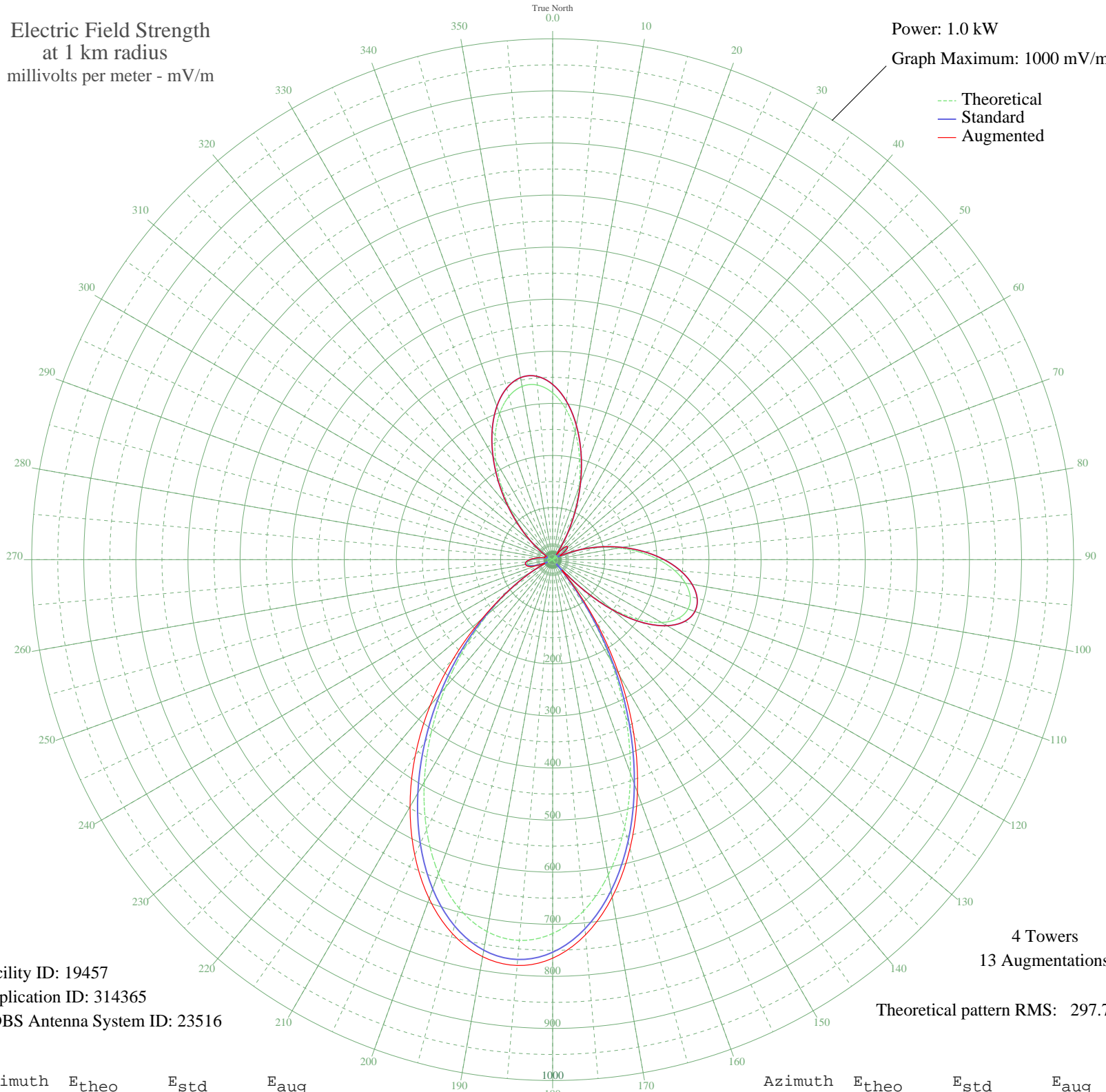


# WVNA TUSCUMBIA, AL BL-- 1590 kHz

Nighttime

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

Power: 1.0 kW  
Graph Maximum: 1000 mV/m



Facility ID: 19457  
Application ID: 314365  
CDBS Antenna System ID: 23516

4 Towers  
13 Augmentations  
Theoretical pattern RMS: 297.73

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	320.28	336.47	336.47
5	290.35	305.05	305.05
10	249.24	261.92	261.92
15	200.52	210.82	210.82
20	148.36	156.14	156.14
25	97.06	102.47	102.47
30	50.64	54.23	54.23
35	12.42	16.85	17.96
40	15.22	19.21	19.97
45	30.93	34.18	35.24
50	34.42	37.68	37.68
55	26.28	29.59	29.59
60	7.85	13.48	17.48
65	19.06	22.68	23.69
70	52.32	55.96	56.04
75	89.68	94.77	94.77
80	128.84	135.70	135.70
85	167.54	176.24	176.24
90	203.54	213.99	213.99
95	234.64	246.60	246.60
100	258.62	271.76	271.76
105	273.29	287.16	287.16
110	276.54	290.56	290.56
115	266.42	279.94	279.94
120	241.30	253.59	253.59
125	200.10	210.37	210.37
130	142.47	149.98	149.98
135	69.04	73.27	73.34
140	18.50	22.16	39.55
145	117.26	123.58	142.16
150	223.25	234.65	255.21
155	331.55	348.29	368.31
160	436.64	458.60	475.72
165	532.81	559.55	573.73
170	614.63	645.45	657.95
175	677.45	711.40	723.07

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

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	717.81	753.77	765.21
185	733.77	770.53	782.14
190	725.08	761.40	774.01
195	693.15	727.88	743.39
200	640.91	673.04	692.89
205	572.49	601.21	626.13
210	492.80	517.55	547.50
215	407.05	427.53	460.04
220	320.34	336.53	366.24
225	237.26	249.35	270.55
230	161.60	170.01	178.75
235	96.15	101.52	101.52
240	42.67	46.06	46.44
245	1.92	10.86	16.09
250	26.28	29.59	35.03
255	42.83	46.22	49.53
260	49.26	52.81	52.81
265	47.52	51.02	51.21
270	39.89	43.22	43.88
275	28.83	32.10	33.32
280	16.91	20.71	22.22
285	6.64	12.75	15.45
290	0.43	10.68	16.01
295	0.39	10.68	14.65
300	8.18	13.70	14.41
305	24.85	28.19	28.39
310	50.66	54.26	54.26
315	84.95	89.84	89.84
320	126.09	132.82	132.82
325	171.50	180.39	180.39
330	217.86	229.00	229.00
335	261.35	274.63	274.63
340	298.08	313.17	313.17
345	324.50	340.90	340.90
350	337.86	354.91	354.91
355	336.52	353.51	353.51