

WBAR FM ANTENNA

Electric Field : Phi Pattern		
Theta = 90°		
	Horizontal Polarization	Vertical Polarization
Phi	Magnitude E/Emax	Magnitude E/Emax
Degrees		
0	0.829	0.514
1	0.823	0.526
2	0.817	0.541
3	0.811	0.557
4	0.807	0.575
5	0.802	0.595
6	0.798	0.615
7	0.795	0.637
8	0.792	0.659
9	0.789	0.681
10	0.788	0.704
11	0.786	0.726
12	0.785	0.749
13	0.785	0.771
14	0.785	0.792
15	0.785	0.813
16	0.786	0.833
17	0.787	0.852
18	0.788	0.869
19	0.789	0.886
20	0.791	0.902
21	0.793	0.916
22	0.794	0.928
23	0.796	0.940
24	0.798	0.949
25	0.800	0.958
26	0.801	0.965
27	0.803	0.970
28	0.804	0.974
29	0.806	0.976
30	0.807	0.977
31	0.808	0.976
32	0.809	0.974
33	0.810	0.970
34	0.810	0.965
35	0.811	0.958
36	0.812	0.951
37	0.812	0.942
38	0.813	0.932
39	0.814	0.921
40	0.814	0.909
41	0.815	0.896
42	0.816	0.882
43	0.817	0.867
44	0.818	0.852
45	0.820	0.836
46	0.822	0.820
47	0.824	0.803

SPEC | DESV H DESV V

1 -0.171 -0.486

1 -0.212 -0.296

1 -0.209 -0.098

1 -0.193 -0.023

1 -0.186 -0.091

WBAR FM ANTENNA

Electric Field : Phi Pattern

Theta = 90°

Phi Degrees	Horizontal Polarization	Vertical Polarization	SPEC DESV H DESV V
48	0.827	0.786	
49	0.829	0.769	
50	0.832	0.752	
51	0.836	0.735	
52	0.840	0.719	
53	0.844	0.702	
54	0.849	0.686	
55	0.854	0.670	
56	0.859	0.655	
57	0.865	0.640	
58	0.871	0.626	
59	0.877	0.613	
60	0.883	0.600	
61	0.890	0.581	
62	0.896	0.571	
63	0.903	0.562	
64	0.910	0.554	
65	0.916	0.548	
66	0.923	0.542	
67	0.930	0.538	
68	0.936	0.535	
69	0.942	0.534	
70	0.948	0.529	
71	0.954	0.530	
72	0.960	0.533	
73	0.965	0.536	
74	0.969	0.541	
75	0.974	0.547	
76	0.977	0.555	
77	0.981	0.556	
78	0.984	0.565	
79	0.986	0.575	
80	0.988	0.586	
81	0.989	0.589	
82	0.990	0.602	
83	0.990	0.615	
84	0.990	0.628	
85	0.989	0.643	
86	0.988	0.657	
87	0.986	0.662	
88	0.983	0.677	
89	0.980	0.692	
90	0.977	0.699	
91	0.973	0.714	
92	0.969	0.729	
93	0.964	0.743	
94	0.959	0.757	
95	0.953	0.771	

1 -0.168 -0.248

1 -0.117 -0.400

1 -0.052 -0.471

1 -0.012 -0.414

1 -0.023 -0.301

WBAR FM ANTENNA

Electric Field : Phi Pattern		
Theta = 90°		
	Horizontal Polarization	Vertical Polarization
Phi Degrees	Magnitude E/Emax	Magnitude E/Emax
96	0.947	0.784
97	0.941	0.796
98	0.934	0.808
99	0.927	0.819
100	0.920	0.825
101	0.912	0.835
102	0.904	0.837
103	0.895	0.843
104	0.886	0.849
105	0.877	0.850
106	0.868	0.852
107	0.858	0.853
108	0.848	0.850
109	0.837	0.841
110	0.826	0.838
111	0.815	0.832
112	0.803	0.826
113	0.791	0.820
114	0.779	0.811
115	0.766	0.801
116	0.753	0.790
117	0.739	0.777
118	0.725	0.763
119	0.711	0.747
120	0.697	0.729
121	0.682	0.715
122	0.667	0.701
123	0.651	0.687
124	0.636	0.672
125	0.620	0.658
126	0.605	0.644
127	0.589	0.629
128	0.574	0.615
129	0.559	0.585
130	0.544	0.555
131	0.530	0.524
132	0.516	0.493
133	0.503	0.462
134	0.491	0.431
135	0.480	0.401
136	0.471	0.371
137	0.462	0.343
138	0.455	0.317
139	0.450	0.293
140	0.446	0.273
141	0.444	0.257
142	0.444	0.246
143	0.445	0.242

SPEC | DESV H DESV V

1 -0.080 -0.175

0.98 -0.132 -0.130

0.84 -0.014 -0.002

0.729 -0.032 0.000

0.62 -0.076 -0.065

0.574 -0.128 -0.301

WBAR FM ANTENNA

Electric Field : Phi Pattern		
Theta = 90°		
	Horizontal Polarization	Vertical Polarization
Phi Degrees	Magnitude E/Emax	Magnitude E/Emax
144	0.448	0.243
145	0.453	0.251
146	0.459	0.264
147	0.466	0.282
148	0.474	0.303
149	0.484	0.327
150	0.494	0.353
151	0.505	0.380
152	0.517	0.408
153	0.529	0.436
154	0.541	0.465
155	0.553	0.494
156	0.566	0.522
157	0.578	0.550
158	0.591	0.578
159	0.603	0.605
160	0.615	0.632
161	0.626	0.658
162	0.638	0.683
163	0.649	0.707
164	0.659	0.730
165	0.669	0.753
166	0.679	0.775
167	0.689	0.796
168	0.698	0.816
169	0.706	0.834
170	0.715	0.852
171	0.723	0.869
172	0.730	0.885
173	0.738	0.900
174	0.745	0.914
175	0.752	0.927
176	0.758	0.938
177	0.765	0.949
178	0.771	0.959
179	0.777	0.967
180	0.783	0.975
181	0.789	0.982
182	0.795	0.987
183	0.801	0.992
184	0.807	0.995
185	0.813	0.998
186	0.819	0.999
187	0.825	1.000
188	0.831	1.000
189	0.837	0.999
190	0.843	0.997
191	0.849	0.994

WBAR FM ANTENNA

Electric Field : Phi Pattern		
Theta = 90°		
	Horizontal Polarization	Vertical Polarization
Phi Degrees	Magnitude E/Emax	Magnitude E/Emax
192	0.856	0.990
193	0.862	0.986
194	0.869	0.981
195	0.875	0.975
196	0.882	0.969
197	0.889	0.962
198	0.896	0.954
199	0.902	0.946
200	0.909	0.938
201	0.916	0.929
202	0.923	0.919
203	0.929	0.909
204	0.936	0.899
205	0.942	0.889
206	0.949	0.878
207	0.955	0.866
208	0.960	0.855
209	0.966	0.843
210	0.971	0.830
211	0.976	0.818
212	0.981	0.805
213	0.985	0.792
214	0.988	0.778
215	0.992	0.764
216	0.994	0.750
217	0.997	0.736
218	0.998	0.721
219	0.999	0.707
220	1.000	0.691
221	1.000	0.676
222	0.999	0.660
223	0.998	0.645
224	0.997	0.629
225	0.994	0.613
226	0.991	0.597
227	0.988	0.581
228	0.984	0.566
229	0.980	0.551
230	0.975	0.536
231	0.970	0.522
232	0.965	0.509
233	0.960	0.496
234	0.954	0.485
235	0.948	0.475
236	0.942	0.467
237	0.936	0.460
238	0.931	0.455
239	0.925	0.453

SPEC | DESV H DESV V

1 -0.091 -0.062

1 -0.029 -0.170

1 0.000 -0.309

1 -0.025 -0.464

WBAR FM ANTENNA

Electric Field : Phi Pattern		
Theta = 90°		
	Horizontal Polarization	Vertical Polarization
Phi Degrees	Magnitude E/Emax	Magnitude E/Emax
240	0.920	0.452
241	0.915	0.453
242	0.910	0.457
243	0.906	0.463
244	0.902	0.470
245	0.899	0.480
246	0.896	0.492
247	0.895	0.504
248	0.893	0.519
249	0.893	0.534
250	0.893	0.551
251	0.893	0.568
252	0.894	0.586
253	0.896	0.604
254	0.898	0.623
255	0.901	0.641
256	0.904	0.660
257	0.908	0.679
258	0.912	0.697
259	0.916	0.714
260	0.920	0.732
261	0.925	0.749
262	0.929	0.765
263	0.933	0.780
264	0.937	0.795
265	0.941	0.809
266	0.945	0.822
267	0.948	0.834
268	0.951	0.846
269	0.954	0.857
270	0.956	0.866
271	0.957	0.875
272	0.959	0.883
273	0.959	0.890
274	0.959	0.896
275	0.959	0.902
276	0.958	0.906
277	0.957	0.910
278	0.955	0.913
279	0.952	0.915
280	0.950	0.917
281	0.946	0.918
282	0.943	0.918
283	0.939	0.917
284	0.935	0.916
285	0.930	0.915
286	0.925	0.912
287	0.921	0.910

WBAR FM ANTENNA

Electric Field : Phi Pattern

Theta = 90°

Phi Degrees	Horizontal Polarization	Vertical Polarization	SPEC DESV H DESV V
288	0.916	0.906	1 -0.094 -0.101
289	0.911	0.903	
290	0.906	0.899	
291	0.901	0.894	
292	0.897	0.889	
293	0.892	0.884	
294	0.888	0.878	
295	0.884	0.873	
296	0.880	0.867	
297	0.877	0.860	
298	0.874	0.854	
299	0.871	0.847	
300	0.869	0.841	1 -0.131 -0.159
301	0.868	0.834	
302	0.866	0.827	
303	0.865	0.820	
304	0.865	0.814	
305	0.865	0.807	
306	0.865	0.801	
307	0.866	0.794	
308	0.867	0.788	
309	0.869	0.783	
310	0.871	0.777	1 -0.129 -0.223
311	0.873	0.772	
312	0.875	0.767	
313	0.878	0.762	
314	0.881	0.758	
315	0.884	0.754	
316	0.888	0.751	
317	0.892	0.748	
318	0.895	0.745	
319	0.899	0.743	
320	0.903	0.740	1 -0.097 -0.260
321	0.907	0.738	
322	0.911	0.736	
323	0.915	0.734	
324	0.919	0.732	
325	0.922	0.730	
326	0.926	0.728	
327	0.929	0.725	
328	0.932	0.722	
329	0.935	0.719	
330	0.938	0.715	1 -0.062 -0.285
331	0.940	0.711	
332	0.942	0.706	
333	0.943	0.700	
334	0.944	0.694	
335	0.945	0.687	

WBAR FM ANTENNA

Electric Field : Phi Pattern

Theta = 90°

Phi Degrees	Horizontal Polarization	Vertical Polarization	SPEC DESV H DESV V
336	0.945	0.679	
337	0.945	0.671	
338	0.944	0.662	
339	0.943	0.652	
340	0.941	0.641	
341	0.939	0.630	
342	0.936	0.618	
343	0.933	0.606	
344	0.929	0.593	
345	0.924	0.580	
346	0.920	0.567	
347	0.915	0.555	
348	0.909	0.542	
349	0.903	0.531	
350	0.897	0.520	
351	0.890	0.510	
352	0.884	0.502	
353	0.877	0.496	
354	0.870	0.491	
355	0.863	0.489	
356	0.856	0.489	
357	0.849	0.491	
358	0.842	0.496	
359	0.835	0.504	
360	0.829	0.514	
			1 -0.059 -0.359
			1 -0.103 -0.480
			1 -0.171 -0.486