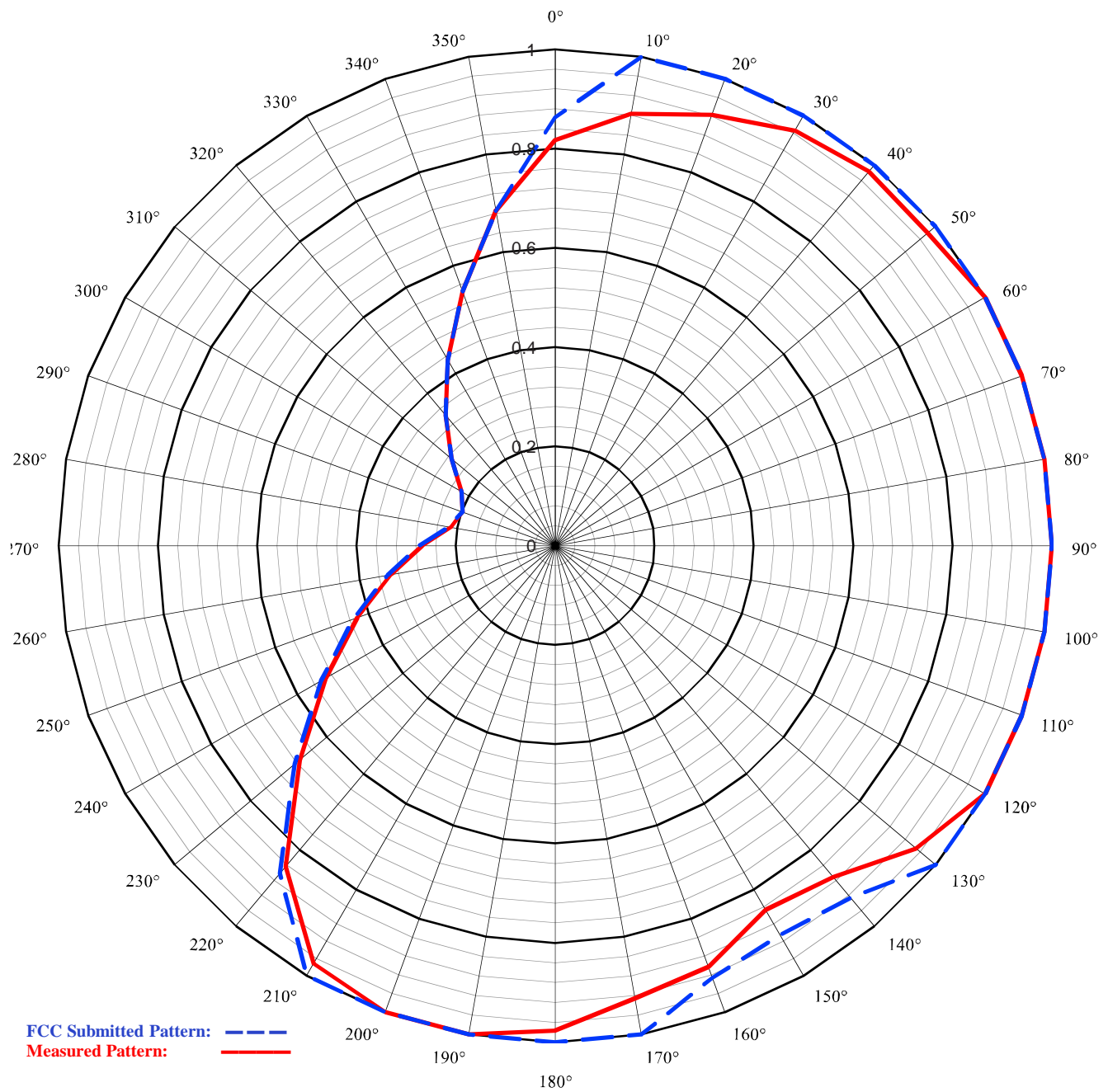


WYBA(FM) - Coldwater

Tabulation of FCC and Measured Directional Antenna Patterns

Measured Composite Pattern in Relative Field



Call Sign: WYBA(FM)

Channel: 211B

Max ERP: 32.0 kW (V)
32.0 kW (H)

Antenna Make: SWR, Inc.

Model: FM10D/5-DA (5 element)

Licensee: Bible Broadcasting Network, Inc.

Munn-Reese, Inc.

Broadcast Engineering Consultants
Coldwater, MI 49036

WYBA(FM) - Coldwater, MI

Tabulation of FCC and Measured Directional Antenna Patterns

MEASURED PATTERN (from manufacturer)								SUBMITTED PATTERN (to FCC)							
Enter		Measured	Calculated			Measured	Relative	Enter		Submitted	Calculated			Submitted	Relative
Max ERP		Relative	dB		Equiv	Relative	Field	Max ERP		Relative	dB		Equiv	Relative	Field
(kW)	° True	Field	Change	Suppression	Power	Field ²	RMS	(kW)	° True	Field	Change	Suppression	Power	Field ²	RMS
32.00	0°	0.817	1.53	-1.76	21.360	0.67	0.803	32.000	0°	0.862	2.00	-1.29	23.777	0.74	0.824
	10°	0.883	0.67	-1.08	24.950	0.78			10°	1	1.29	0.00	32.000	1.00	
	20°	0.923	0.38	-0.70	27.262	0.85			20°	1	0.00	0.00	32.000	1.00	
	30°	0.965	0.39	-0.31	29.799	0.93			30°	1	0.00	0.00	32.000	1.00	
	40°	0.983	0.16	-0.15	30.921	0.97			40°	1	0.00	0.00	32.000	1.00	
	50°	0.979	-0.04	-0.18	30.670	0.96			50°	1	0.00	0.00	32.000	1.00	
	60°	1	0.18	0.00	32.000	1.00			60°	1	0.00	0.00	32.000	1.00	
	70°	1	0.00	0.00	32.000	1.00			70°	1	0.00	0.00	32.000	1.00	
	80°	1	0.00	0.00	32.000	1.00			80°	1	0.00	0.00	32.000	1.00	
	90°	1	0.00	0.00	32.000	1.00			90°	1	0.00	0.00	32.000	1.00	
	100°	1	0.00	0.00	32.000	1.00			100°	1	0.00	0.00	32.000	1.00	
	110°	1	0.00	0.00	32.000	1.00			110°	1	0.00	0.00	32.000	1.00	
	120°	1	0.00	0.00	32.000	1.00			120°	1	0.00	0.00	32.000	1.00	
	130°	0.949	-0.45	-0.45	28.819	0.90			130°	1	0.00	0.00	32.000	1.00	
	140°	0.871	-0.74	-1.20	24.277	0.76			140°	0.926	-0.67	-0.67	27.439	0.86	
	150°	0.847	-0.24	-1.44	22.957	0.72			150°	0.906	-0.19	-0.86	26.267	0.82	
	160°	0.903	0.56	-0.89	26.093	0.82			160°	0.926	0.19	-0.67	27.439	0.86	
	170°	0.926	0.22	-0.67	27.439	0.86			170°	1	0.67	0.00	32.000	1.00	
	180°	0.977	0.47	-0.20	30.545	0.95			180°	1	0.00	0.00	32.000	1.00	
	190°	1	0.20	0.00	32.000	1.00			190°	1	0.00	0.00	32.000	1.00	
	200°	1	0.00	0.00	32.000	1.00			200°	1	0.00	0.00	32.000	1.00	
	210°	0.972	-0.25	-0.25	30.233	0.94			210°	1	0.00	0.00	32.000	1.00	
	220°	0.844	-1.23	-1.47	22.795	0.71			220°	0.862	-1.29	-1.29	23.777	0.74	
	230°	0.6713	-1.99	-3.46	14.421	0.45			230°	0.685	-2.00	-3.29	15.015	0.47	
	240°	0.5331	-2.00	-5.46	9.094	0.28			240°	0.544	-2.00	-5.29	9.470	0.30	
	250°	0.4234	-2.00	-7.46	5.737	0.18			250°	0.432	-2.00	-7.29	5.972	0.19	
	260°	0.3361	-2.01	-9.47	3.615	0.11			260°	0.343	-2.00	-9.29	3.765	0.12	
	270°	0.2675	-1.98	-11.45	2.290	0.07			270°	0.273	-1.98	-11.28	2.385	0.07	
	280°	0.2127	-1.99	-13.44	1.448	0.05			280°	0.217	-1.99	-13.27	1.507	0.05	
	290°	0.198	-0.62	-14.07	1.255	0.04			290°	0.198	-0.80	-14.07	1.255	0.04	
	300°	0.217	0.80	-13.27	1.507	0.05			300°	0.217	0.80	-13.27	1.507	0.05	
	310°	0.273	1.99	-11.28	2.385	0.07			310°	0.273	1.99	-11.28	2.385	0.07	
	320°	0.343	1.98	-9.29	3.765	0.12			320°	0.343	1.98	-9.29	3.765	0.12	
	330°	0.432	2.00	-7.29	5.972	0.19			330°	0.432	2.00	-7.29	5.972	0.19	
	340°	0.544	2.00	-5.29	9.470	0.30			340°	0.544	2.00	-5.29	9.470	0.30	
	350°	0.685	2.00	-3.29	15.015	0.47			350°	0.685	2.00	-3.29	15.015	0.47	