

**KXTX-TV Application for Auxiliary Broadcast Facility****73.625(c) Data  
January 19, 2024****AZIMUTH PATTERN: TUA-C3-6/18U-1-R DC SM**

Main beam axis of symmetry: 350° true

Electrical Beam Tilt: 0.80°

Main Beam Calculated Maximum Azimuth Pattern Gain (peak): 1.99 (2.99 dBd)

Maximum Main Beam Effective Radiated Power (ERP): 422.1 kW 26.25 dBk

**Tabulation of Azimuth Pattern**

Angle	RF	dBk	ERP kW
0	0.927	25.60	362.74
10	0.750	23.76	237.44
20	0.670	22.78	189.49
30	0.869	25.03	318.77
40	0.858	24.92	310.75
50	0.642	22.41	173.98
60	0.719	23.39	218.22
70	0.935	25.67	369.03
80	1.000	26.25	422.12
90	0.919	25.52	356.50
100	0.796	24.27	267.46
110	0.687	22.99	199.23
120	0.606	21.90	155.02
130	0.391	18.10	64.53
140	0.174	11.07	12.78
150	0.186	11.64	14.60
160	0.131	8.60	7.24
170	0.118	7.69	5.88
180	0.137	8.99	7.92
190	0.162	10.44	11.08
200	0.164	10.55	11.35
210	0.407	18.45	69.92
220	0.603	21.86	153.49
230	0.677	22.87	193.47
240	0.770	23.98	250.27
250	0.902	25.36	343.44
260	0.975	26.03	401.27
270	0.931	25.63	365.87
280	0.721	23.41	219.43
290	0.665	22.71	186.67
300	0.884	25.18	329.87
310	0.836	24.70	295.02
320	0.628	22.21	166.48
330	0.724	23.45	221.26
340	0.914	25.47	352.63
350	0.984	26.11	408.72

Maximum Angle	RF	dBk	ERP kW
35	0.909	25.43	348.79
80	1.000	26.25	422.12
148	0.190	11.83	15.24
189	0.163	10.50	11.22
260	0.975	26.03	401.27
304	0.911	25.44	350.32
350	0.984	26.11	408.72

Minimum Angle	RF	dBk	ERP kW
18	0.659	22.63	183.32
53	0.618	22.07	161.22
141	0.173	11.02	12.63
165	0.114	7.39	5.49
197	0.152	9.89	9.75
286	0.636	22.32	170.74
322	0.619	22.09	161.74

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## AZIMUTH PATTERN: TUA-C3-6/18U-1-R DC SM

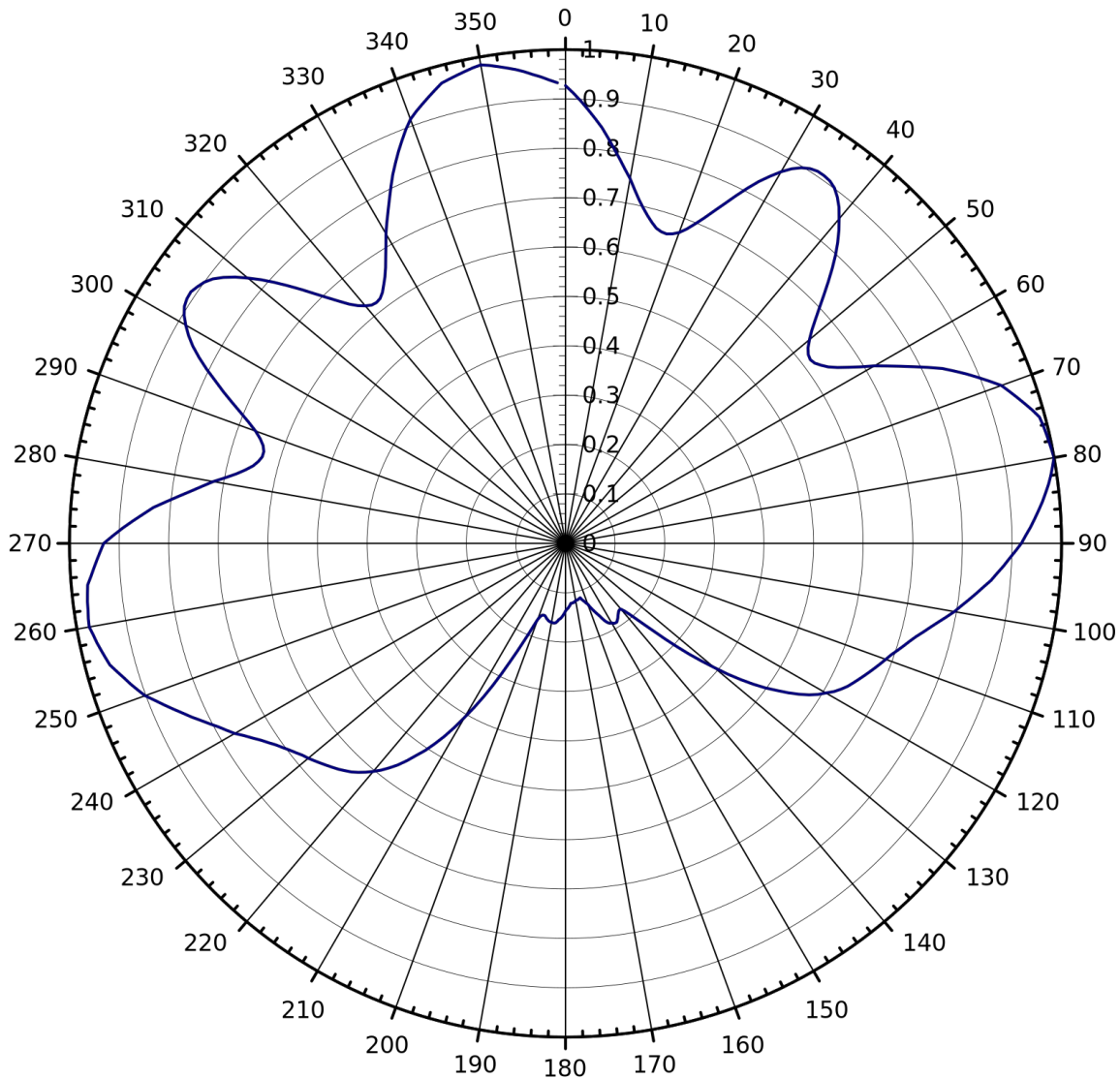
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## AZIMUTH PATTERN RELATIVE FIELD



Blue plot shows azimuth pattern relative field

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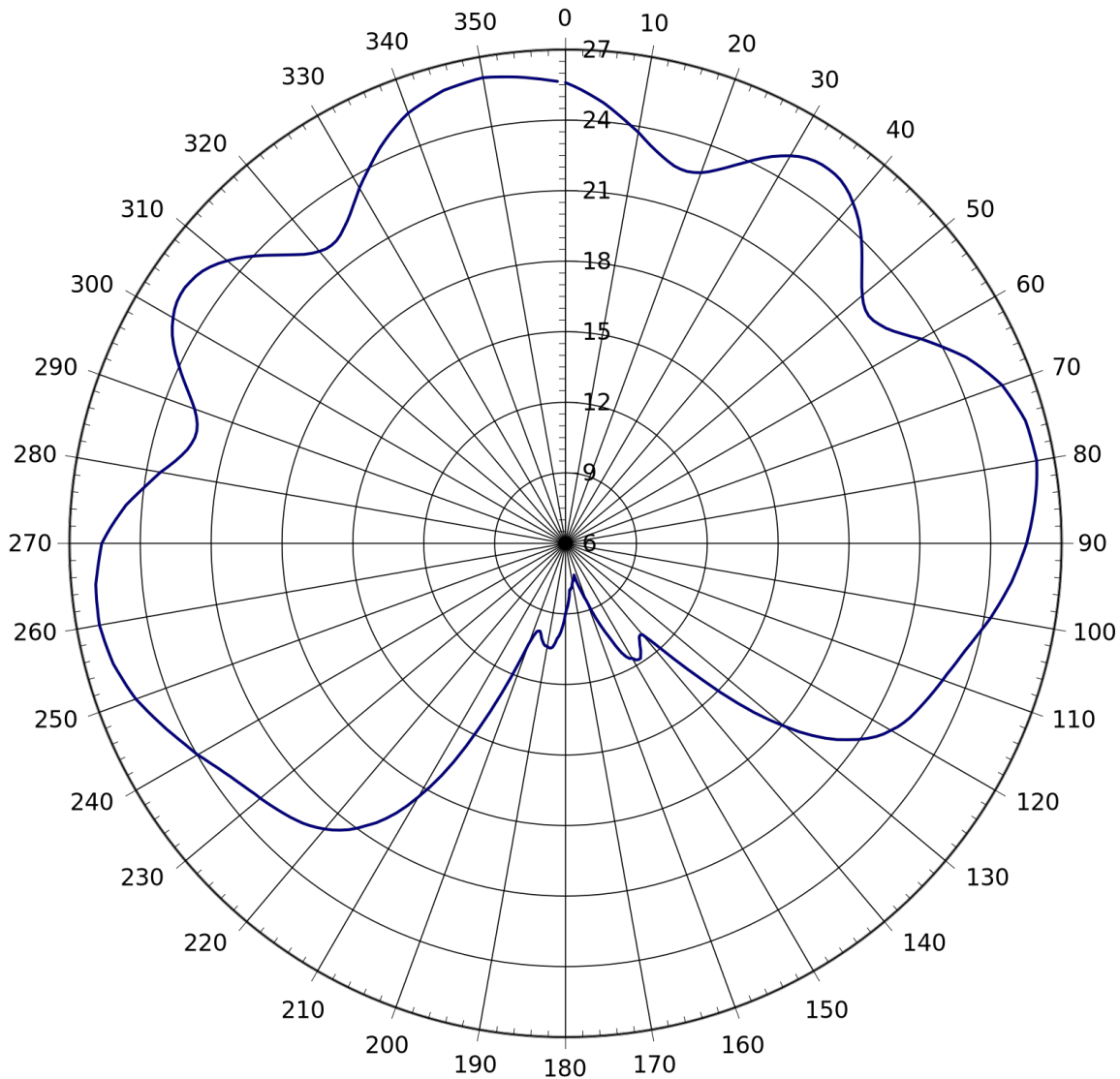
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## AZIMUTH PATTERN ERP (dBk)



Blue plot shows effective radiated power (dBk)

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## ELEVATION PATTERN TUA-C3-6/18U-1-R DC SM

Electrical Beam Tilt: 0.80°

Calculated Maximum Elevation Gain:

13.55

11.32 dBd

RMS Gain at Horizontal:

11.99

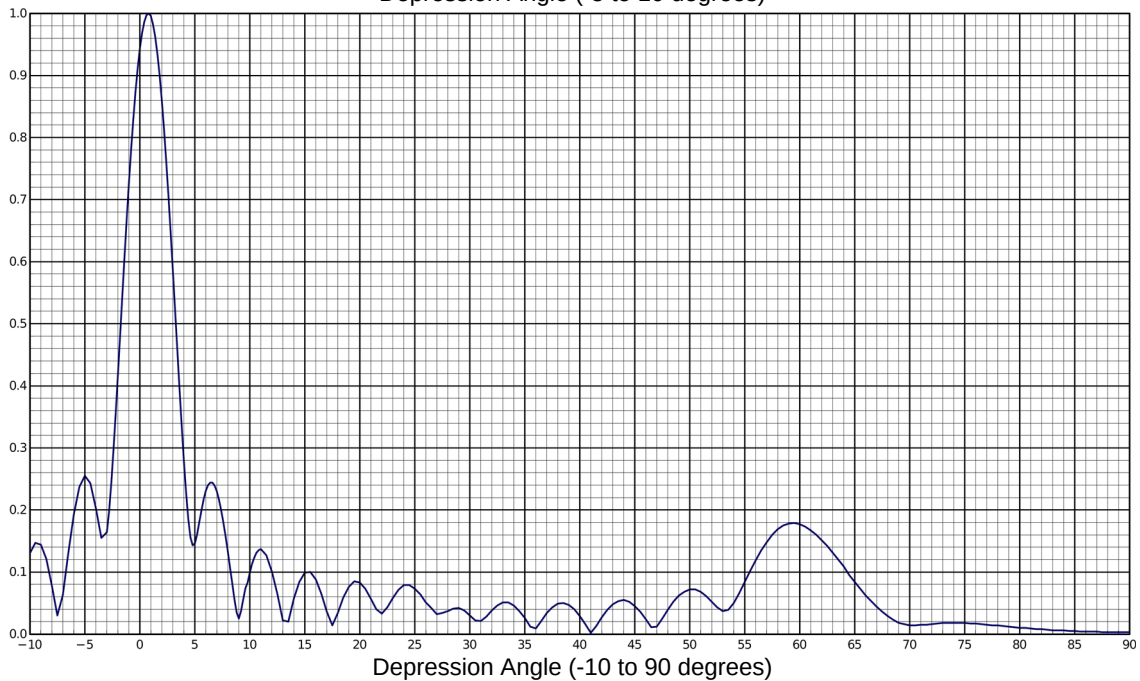
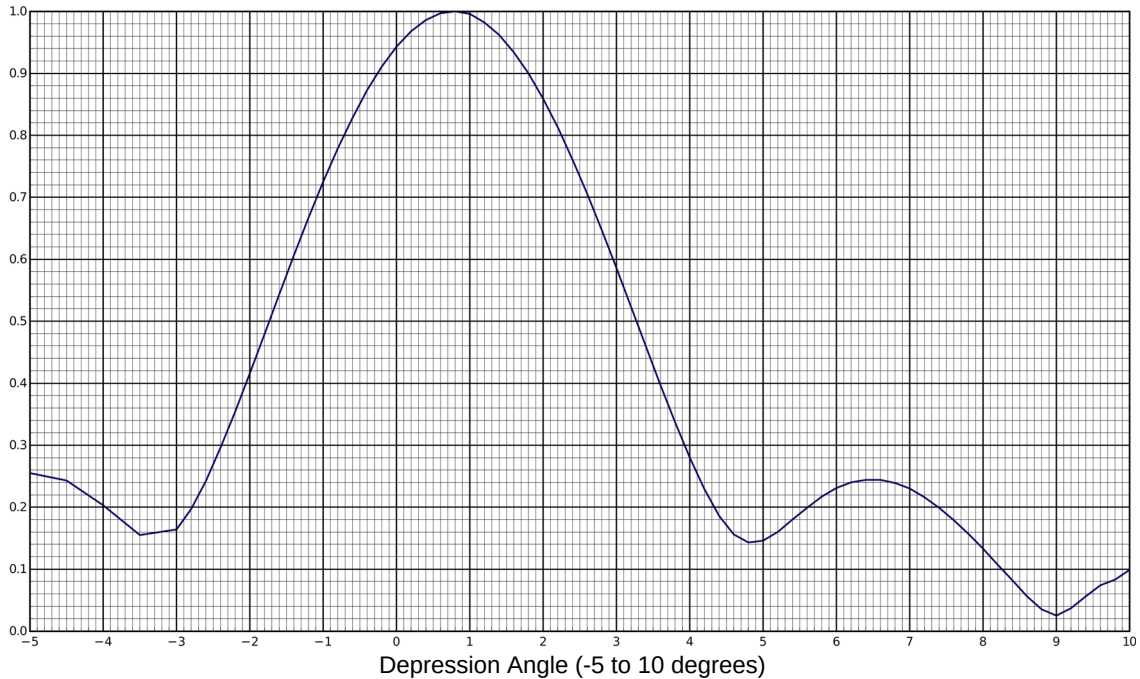
10.79 dBd

Maximum Main Beam Effective Radiated Power (ERP):

422.1 kW

26.25 dBk

### Relative Field



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## ELEVATION PATTERN TUA-C3-6/18U-1-R DC SM

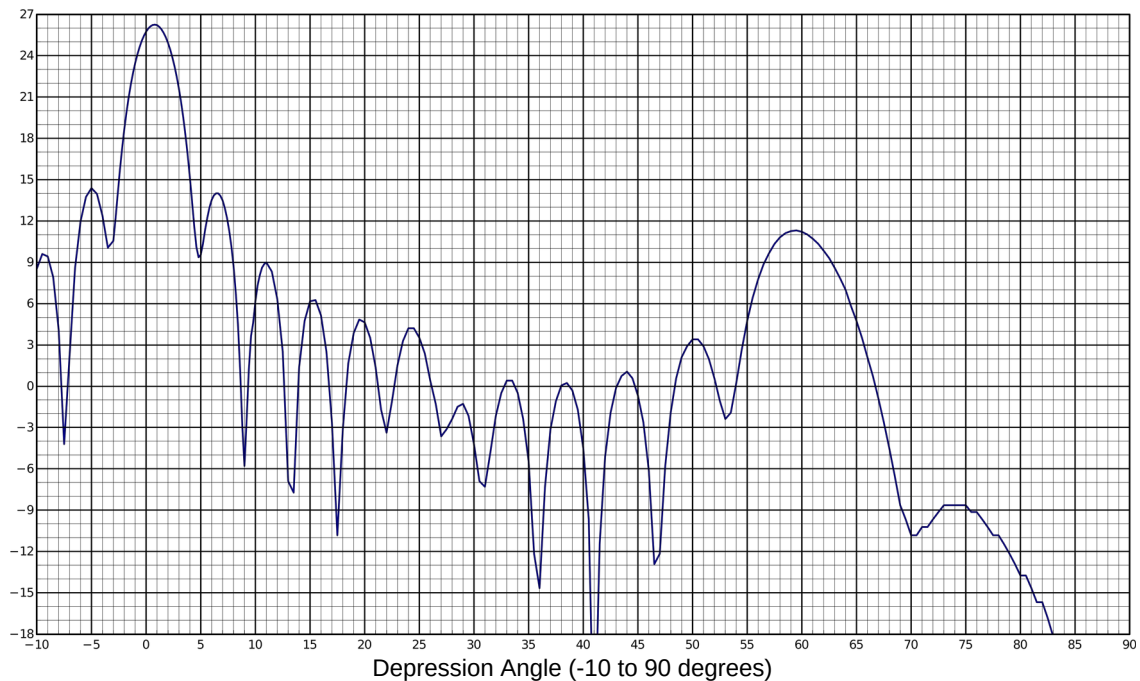
Electrical Beam Tilt: 0.80°

Calculated Maximum Elevation Gain: 13.55 11.32 dBd

RMS Gain at Horizontal: 11.99 10.79 dBd

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### ERP (dBK)



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RMS Gain at Horizontal: 11.99 10.79 dBd

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Elevation Pattern Tabulation:

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.130	1.20	0.982	8.20	0.107	21.5	0.040	39.0	0.047	56.5	0.135	74.0	0.018
-9.50	0.147	1.40	0.962	8.40	0.082	22.0	0.033	39.5	0.040	57.0	0.148	74.5	0.018
-9.00	0.144	1.60	0.934	8.60	0.056	22.5	0.043	40.0	0.029	57.5	0.160	75.0	0.018
-8.50	0.121	1.80	0.900	8.80	0.035	23.0	0.058	40.5	0.016	58.0	0.169	75.5	0.017
-8.00	0.078	2.00	0.859	9.00	0.025	23.5	0.071	41.0	0.002	58.5	0.175	76.0	0.017
-7.50	0.030	2.20	0.813	9.20	0.037	24.0	0.079	41.5	0.013	59.0	0.178	76.5	0.016
-7.00	0.063	2.40	0.761	9.40	0.056	24.5	0.079	42.0	0.027	59.5	0.179	77.0	0.015
-6.50	0.131	2.60	0.706	9.60	0.074	25.0	0.073	42.5	0.039	60.0	0.177	77.5	0.014
-6.00	0.193	2.80	0.647	9.80	0.083	25.5	0.064	43.0	0.048	60.5	0.173	78.0	0.014
-5.50	0.237	3.00	0.586	10.0	0.099	26.0	0.051	43.5	0.053	61.0	0.167	78.5	0.013
-5.00	0.255	3.20	0.523	10.2	0.113	26.5	0.042	44.0	0.055	61.5	0.160	79.0	0.012
-4.50	0.243	3.40	0.460	10.4	0.123	27.0	0.032	44.5	0.052	62.0	0.151	79.5	0.011
-4.00	0.203	3.60	0.397	10.6	0.131	27.5	0.034	45.0	0.045	62.5	0.142	80.0	0.010
-3.50	0.155	3.80	0.337	10.8	0.135	28.0	0.037	45.5	0.036	63.0	0.131	80.5	0.010
-3.00	0.164	4.00	0.280	11.0	0.137	28.5	0.041	46.0	0.024	63.5	0.120	81.0	0.009
-2.80	0.197	4.20	0.229	11.5	0.127	29.0	0.042	46.5	0.011	64.0	0.109	81.5	0.008
-2.60	0.242	4.40	0.186	12.0	0.101	29.5	0.038	47.0	0.012	64.5	0.095	82.0	0.008
-2.40	0.296	4.60	0.156	12.5	0.065	30.0	0.030	47.5	0.025	65.0	0.084	82.5	0.007
-2.20	0.354	4.80	0.143	13.0	0.022	30.5	0.022	48.0	0.039	65.5	0.073	83.0	0.006
-2.00	0.416	5.00	0.146	13.5	0.020	31.0	0.021	48.5	0.052	66.0	0.062	83.5	0.006
-1.80	0.479	5.20	0.160	14.0	0.057	31.5	0.028	49.0	0.062	66.5	0.053	84.0	0.006
-1.60	0.543	5.40	0.180	14.5	0.084	32.0	0.038	49.5	0.068	67.0	0.044	84.5	0.005
-1.40	0.606	5.60	0.199	15.0	0.099	32.5	0.046	50.0	0.072	67.5	0.036	85.0	0.005
-1.20	0.667	5.80	0.217	15.5	0.100	33.0	0.051	50.5	0.072	68.0	0.029	85.5	0.004
-1.00	0.725	6.00	0.231	16.0	0.088	33.5	0.051	51.0	0.068	68.5	0.023	86.0	0.004
-0.80	0.779	6.20	0.240	16.5	0.065	34.0	0.046	51.5	0.061	69.0	0.018	86.5	0.004
-0.60	0.828	6.40	0.244	17.0	0.036	34.5	0.037	52.0	0.052	69.5	0.016	87.0	0.004
-0.40	0.873	6.60	0.244	17.5	0.014	35.0	0.026	52.5	0.043	70.0	0.014	87.5	0.003
-0.20	0.911	6.80	0.239	18.0	0.034	35.5	0.012	53.0	0.037	70.5	0.014	88.0	0.003
0.00	0.943	7.00	0.230	18.5	0.059	36.0	0.009	53.5	0.039	71.0	0.015	88.5	0.003
0.20	0.968	7.20	0.216	19.0	0.076	36.5	0.021	54.0	0.050	71.5	0.015	89.0	0.003
0.40	0.986	7.40	0.199	19.5	0.085	37.0	0.034	54.5	0.066	72.0	0.016	89.5	0.003
0.60	0.997	7.60	0.179	20.0	0.083	37.5	0.043	55.0	0.084	72.5	0.017	90.0	0.003
0.80	1.000	7.80	0.157	20.5	0.073	38.0	0.049	55.5	0.102	73.0	0.018		
1.00	0.996	8.00	0.133	21.0	0.057	38.5	0.050	56.0	0.119	73.5	0.018		