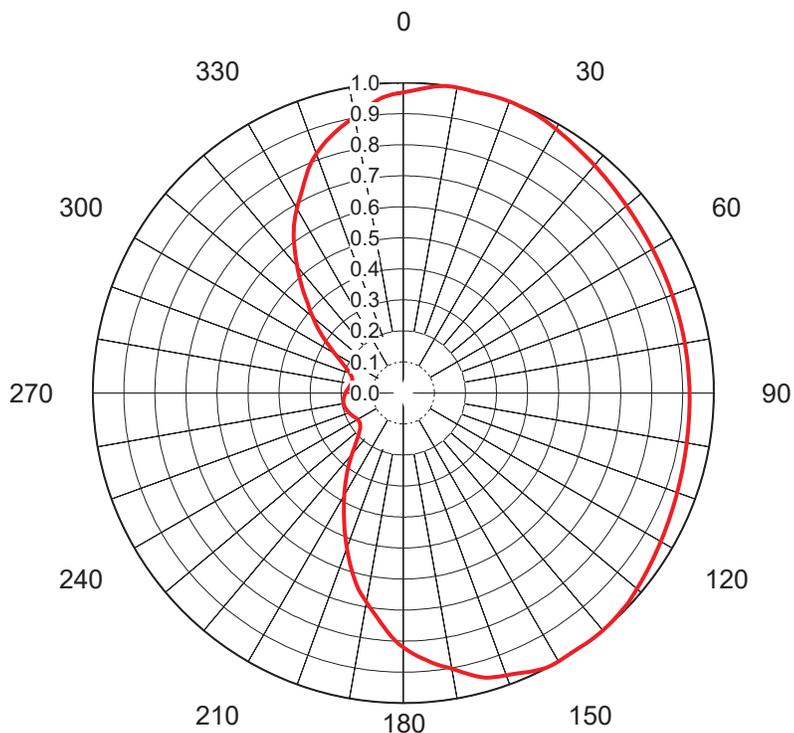


AZIMUTH PATTERN Horizontal Polarization

In Free Space

Proposal No. **C-70293-2**
 Date **29-Aug-17**
 Call Letters **KDVR**
 Channel **36**
 Frequency **605 MHz**
 Antenna Type **TFU-26DSC/VP-R C170 MT**
 Gain **1.73 (2.38dB)**
 Calculated



.5deg MT @ 80deg

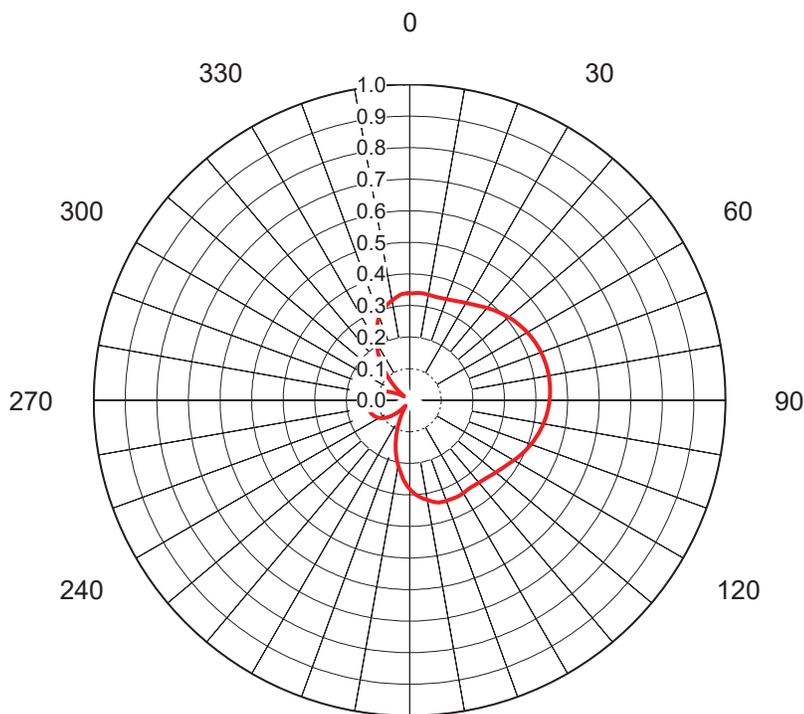
Deg	Value																		
0	0.969	36	0.967	72	0.922	108	0.936	144	0.999	180	0.820	216	0.304	252	0.189	288	0.176	324	0.598
1	0.972	37	0.964	73	0.921	109	0.937	145	0.998	181	0.810	217	0.291	253	0.191	289	0.179	325	0.615
2	0.975	38	0.962	74	0.921	110	0.939	146	0.997	182	0.797	218	0.279	254	0.192	290	0.182	326	0.632
3	0.980	39	0.960	75	0.921	111	0.940	147	0.998	183	0.783	219	0.267	255	0.193	291	0.187	327	0.647
4	0.985	40	0.958	76	0.921	112	0.942	148	0.999	184	0.768	220	0.256	256	0.194	292	0.192	328	0.660
5	0.989	41	0.956	77	0.921	113	0.944	149	0.999	185	0.753	221	0.245	257	0.194	293	0.197	329	0.673
6	0.993	42	0.954	78	0.921	114	0.946	150	0.999	186	0.738	222	0.235	258	0.195	294	0.203	330	0.686
7	0.997	43	0.952	79	0.921	115	0.948	151	0.999	187	0.723	223	0.226	259	0.195	295	0.210	331	0.698
8	0.999	44	0.950	80	0.921	116	0.950	152	0.999	188	0.710	224	0.218	260	0.195	296	0.218	332	0.710
9	0.999	45	0.948	81	0.921	117	0.952	153	0.997	189	0.698	225	0.210	261	0.195	297	0.226	333	0.723
10	0.999	46	0.946	82	0.921	118	0.954	154	0.993	190	0.686	226	0.203	262	0.195	298	0.235	334	0.738
11	0.999	47	0.944	83	0.921	119	0.956	155	0.989	191	0.673	227	0.197	263	0.194	299	0.245	335	0.753
12	0.999	48	0.942	84	0.921	120	0.958	156	0.985	192	0.660	228	0.192	264	0.194	300	0.256	336	0.768
13	0.998	49	0.940	85	0.921	121	0.960	157	0.980	193	0.647	229	0.187	265	0.193	301	0.267	337	0.783
14	0.997	50	0.939	86	0.921	122	0.962	158	0.975	194	0.632	230	0.182	266	0.192	302	0.279	338	0.797
15	0.998	51	0.937	87	0.921	123	0.964	159	0.972	195	0.615	231	0.179	267	0.191	303	0.291	339	0.810
16	0.999	52	0.936	88	0.922	124	0.967	160	0.969	196	0.598	232	0.176	268	0.189	304	0.304	340	0.820
17	1.000	53	0.934	89	0.922	125	0.969	161	0.966	197	0.582	233	0.174	269	0.188	305	0.317	341	0.830
18	1.000	54	0.933	90	0.922	126	0.972	162	0.963	198	0.565	234	0.172	270	0.186	306	0.331	342	0.839
19	1.000	55	0.932	91	0.922	127	0.974	163	0.959	199	0.549	235	0.171	271	0.185	307	0.343	343	0.849
20	1.000	56	0.931	92	0.923	128	0.977	164	0.955	200	0.532	236	0.170	272	0.183	308	0.355	344	0.857
21	0.999	57	0.930	93	0.923	129	0.980	165	0.947	201	0.516	237	0.169	273	0.181	309	0.368	345	0.866
22	0.998	58	0.929	94	0.923	130	0.983	166	0.939	202	0.499	238	0.169	274	0.179	310	0.381	346	0.874
23	0.997	59	0.928	95	0.924	131	0.985	167	0.930	203	0.483	239	0.170	275	0.178	311	0.394	347	0.882
24	0.995	60	0.927	96	0.924	132	0.988	168	0.921	204	0.467	240	0.170	276	0.176	312	0.407	348	0.889
25	0.994	61	0.926	97	0.925	133	0.991	169	0.912	205	0.451	241	0.171	277	0.174	313	0.420	349	0.896
26	0.993	62	0.926	98	0.926	134	0.993	170	0.902	206	0.435	242	0.173	278	0.173	314	0.435	350	0.902
27	0.991	63	0.925	99	0.926	135	0.994	171	0.896	207	0.420	243	0.174	279	0.171	315	0.451	351	0.912
28	0.988	64	0.924	100	0.927	136	0.995	172	0.889	208	0.407	244	0.176	280	0.170	316	0.467	352	0.921
29	0.985	65	0.924	101	0.928	137	0.997	173	0.882	209	0.394	245	0.178	281	0.170	317	0.483	353	0.930
30	0.983	66	0.923	102	0.929	138	0.998	174	0.874	210	0.381	246	0.179	282	0.169	318	0.499	354	0.939
31	0.980	67	0.923	103	0.930	139	0.999	175	0.866	211	0.368	247	0.181	283	0.169	319	0.516	355	0.947
32	0.977	68	0.923	104	0.931	140	1.000	176	0.857	212	0.355	248	0.183	284	0.170	320	0.532	356	0.955
33	0.974	69	0.922	105	0.932	141	1.000	177	0.849	213	0.343	249	0.185	285	0.171	321	0.549	357	0.959
34	0.972	70	0.922	106	0.933	142	1.000	178	0.839	214	0.331	250	0.186	286	0.172	322	0.565	358	0.963
35	0.969	71	0.922	107	0.934	143	1.000	179	0.830	215	0.317	251	0.188	287	0.174	323	0.582	359	0.966

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AZIMUTH PATTERN Vertical Polarization

In Free Space

Proposal No. **C-70293-2**
 Date **29-Aug-17**
 Call Letters **KDVR**
 Channel **36**
 Frequency **605 MHz**
 Antenna Type **TFU-26DSC/VP-R C170 MT**
 Gain **2.31 (3.64dB)**
 Calculated



.5deg MT @ 80deg

Deg	Value																		
0	0.339	36	0.370	72	0.445	108	0.414	144	0.338	180	0.281	216	0.021	252	0.130	288	0.088	324	0.160
1	0.339	37	0.373	73	0.445	109	0.411	145	0.338	181	0.276	217	0.023	253	0.130	289	0.084	325	0.169
2	0.339	38	0.375	74	0.446	110	0.409	146	0.337	182	0.269	218	0.025	254	0.131	290	0.080	326	0.178
3	0.340	39	0.378	75	0.446	111	0.406	147	0.338	183	0.262	219	0.029	255	0.131	291	0.076	327	0.186
4	0.340	40	0.381	76	0.447	112	0.404	148	0.338	184	0.255	220	0.034	256	0.132	292	0.071	328	0.194
5	0.341	41	0.384	77	0.447	113	0.401	149	0.339	185	0.247	221	0.038	257	0.132	293	0.067	329	0.202
6	0.341	42	0.387	78	0.447	114	0.398	150	0.340	186	0.239	222	0.043	258	0.133	294	0.062	330	0.209
7	0.341	43	0.390	79	0.447	115	0.395	151	0.340	187	0.231	223	0.048	259	0.133	295	0.058	331	0.217
8	0.341	44	0.393	80	0.447	116	0.393	152	0.341	188	0.224	224	0.053	260	0.133	296	0.053	332	0.224
9	0.340	45	0.395	81	0.447	117	0.390	153	0.341	189	0.217	225	0.058	261	0.133	297	0.048	333	0.231
10	0.340	46	0.398	82	0.447	118	0.387	154	0.341	190	0.209	226	0.062	262	0.133	298	0.043	334	0.239
11	0.339	47	0.401	83	0.447	119	0.384	155	0.341	191	0.202	227	0.067	263	0.132	299	0.038	335	0.247
12	0.338	48	0.404	84	0.447	120	0.381	156	0.340	192	0.194	228	0.071	264	0.132	300	0.034	336	0.255
13	0.338	49	0.406	85	0.446	121	0.378	157	0.340	193	0.186	229	0.076	265	0.131	301	0.029	337	0.262
14	0.337	50	0.409	86	0.446	122	0.375	158	0.339	194	0.178	230	0.080	266	0.131	302	0.025	338	0.269
15	0.338	51	0.411	87	0.445	123	0.373	159	0.339	195	0.169	231	0.084	267	0.130	303	0.023	339	0.276
16	0.338	52	0.414	88	0.445	124	0.370	160	0.339	196	0.160	232	0.088	268	0.130	304	0.021	340	0.281
17	0.339	53	0.416	89	0.444	125	0.367	161	0.339	197	0.151	233	0.092	269	0.129	305	0.022	341	0.286
18	0.339	54	0.418	90	0.443	126	0.365	162	0.339	198	0.143	234	0.095	270	0.128	306	0.025	342	0.291
19	0.340	55	0.420	91	0.442	127	0.362	163	0.338	199	0.134	235	0.098	271	0.127	307	0.029	343	0.296
20	0.341	56	0.422	92	0.441	128	0.360	164	0.337	200	0.125	236	0.101	272	0.125	308	0.034	344	0.300
21	0.342	57	0.425	93	0.440	129	0.358	165	0.335	201	0.116	237	0.104	273	0.124	309	0.040	345	0.305
22	0.343	58	0.426	94	0.439	130	0.356	166	0.333	202	0.108	238	0.107	274	0.123	310	0.046	346	0.308
23	0.344	59	0.428	95	0.438	131	0.354	167	0.330	203	0.099	239	0.109	275	0.121	311	0.053	347	0.312
24	0.345	60	0.430	96	0.436	132	0.352	168	0.327	204	0.091	240	0.111	276	0.119	312	0.060	348	0.315
25	0.347	61	0.432	97	0.435	133	0.350	169	0.324	205	0.083	241	0.114	277	0.118	313	0.067	349	0.318
26	0.349	62	0.433	98	0.433	134	0.349	170	0.320	206	0.075	242	0.116	278	0.116	314	0.075	350	0.320
27	0.350	63	0.435	99	0.432	135	0.347	171	0.318	207	0.067	243	0.118	279	0.114	315	0.083	351	0.324
28	0.352	64	0.436	100	0.430	136	0.345	172	0.315	208	0.060	244	0.119	280	0.111	316	0.091	352	0.327
29	0.354	65	0.438	101	0.428	137	0.344	173	0.312	209	0.053	245	0.121	281	0.109	317	0.099	353	0.330
30	0.356	66	0.439	102	0.426	138	0.343	174	0.308	210	0.046	246	0.123	282	0.107	318	0.108	354	0.333
31	0.358	67	0.440	103	0.425	139	0.342	175	0.305	211	0.040	247	0.124	283	0.104	319	0.116	355	0.335
32	0.360	68	0.441	104	0.422	140	0.341	176	0.300	212	0.034	248	0.125	284	0.101	320	0.125	356	0.337
33	0.362	69	0.442	105	0.420	141	0.340	177	0.296	213	0.029	249	0.127	285	0.098	321	0.134	357	0.338
34	0.365	70	0.443	106	0.418	142	0.339	178	0.291	214	0.025	250	0.128	286	0.095	322	0.143	358	0.339
35	0.367	71	0.444	107	0.416	143	0.339	179	0.286	215	0.022	251	0.129	287	0.092	323	0.151	359	0.339

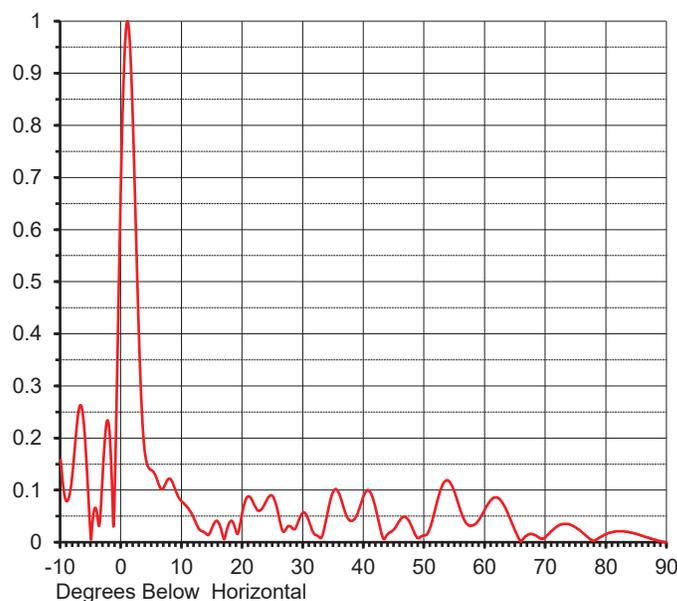
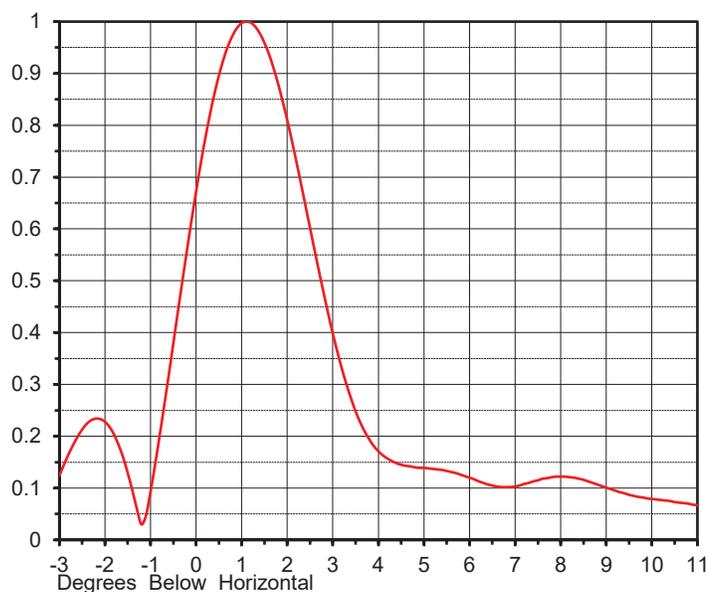
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ELEVATION PATTERN

Proposal No. **C-70293-2**
 Date **29-Aug-17**
 Call Letters **KDVR**
 Channel **36**
 Frequency **605 MHz**
 Antenna Type **TFU-26DSC/VP-R C170 MT**

RMS Directivity at Main Lobe **22.0 (13.42 dB)**
 RMS Directivity at Horizontal **11.6 (10.64 dB)**
Calculated

Beam Tilt **1.00 deg**
 Pattern Number **26Q220100**



Angle	Field								
-10.0	0.158	10.0	0.078	30.0	0.057	50.0	0.013	70.0	0.010
-9.0	0.079	11.0	0.066	31.0	0.039	51.0	0.030	71.0	0.022
-8.0	0.138	12.0	0.045	32.0	0.014	52.0	0.074	72.0	0.031
-7.0	0.255	13.0	0.023	33.0	0.009	53.0	0.111	73.0	0.035
-6.0	0.201	14.0	0.016	34.0	0.056	54.0	0.118	74.0	0.034
-5.0	0.005	15.0	0.029	35.0	0.098	55.0	0.095	75.0	0.028
-4.0	0.054	16.0	0.038	36.0	0.091	56.0	0.059	76.0	0.019
-3.0	0.145	17.0	0.006	37.0	0.055	57.0	0.035	77.0	0.009
-2.0	0.218	18.0	0.040	38.0	0.041	58.0	0.032	78.0	0.003
-1.0	0.145	19.0	0.018	39.0	0.056	59.0	0.043	79.0	0.010
0.0	0.725	20.0	0.059	40.0	0.090	60.0	0.064	80.0	0.016
1.0	1.000	21.0	0.088	41.0	0.097	61.0	0.081	81.0	0.019
2.0	0.771	22.0	0.070	42.0	0.062	62.0	0.086	82.0	0.021
3.0	0.363	23.0	0.062	43.0	0.013	63.0	0.073	83.0	0.021
4.0	0.163	24.0	0.081	44.0	0.016	64.0	0.049	84.0	0.019
5.0	0.138	25.0	0.088	45.0	0.025	65.0	0.021	85.0	0.016
6.0	0.117	26.0	0.049	46.0	0.043	66.0	0.002	86.0	0.012
7.0	0.105	27.0	0.022	47.0	0.047	67.0	0.014	87.0	0.008
8.0	0.122	28.0	0.030	48.0	0.027	68.0	0.015	88.0	0.005
9.0	0.098	29.0	0.034	49.0	0.008	69.0	0.008	89.0	0.002
								90.0	0.000

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