



Exhibit No.
#1

Date
Call Letters
Location
Customer
Antenna Type

23 Jul 2004
KAME
Reno
TFU-24DSB-C (C)

Channel **20**

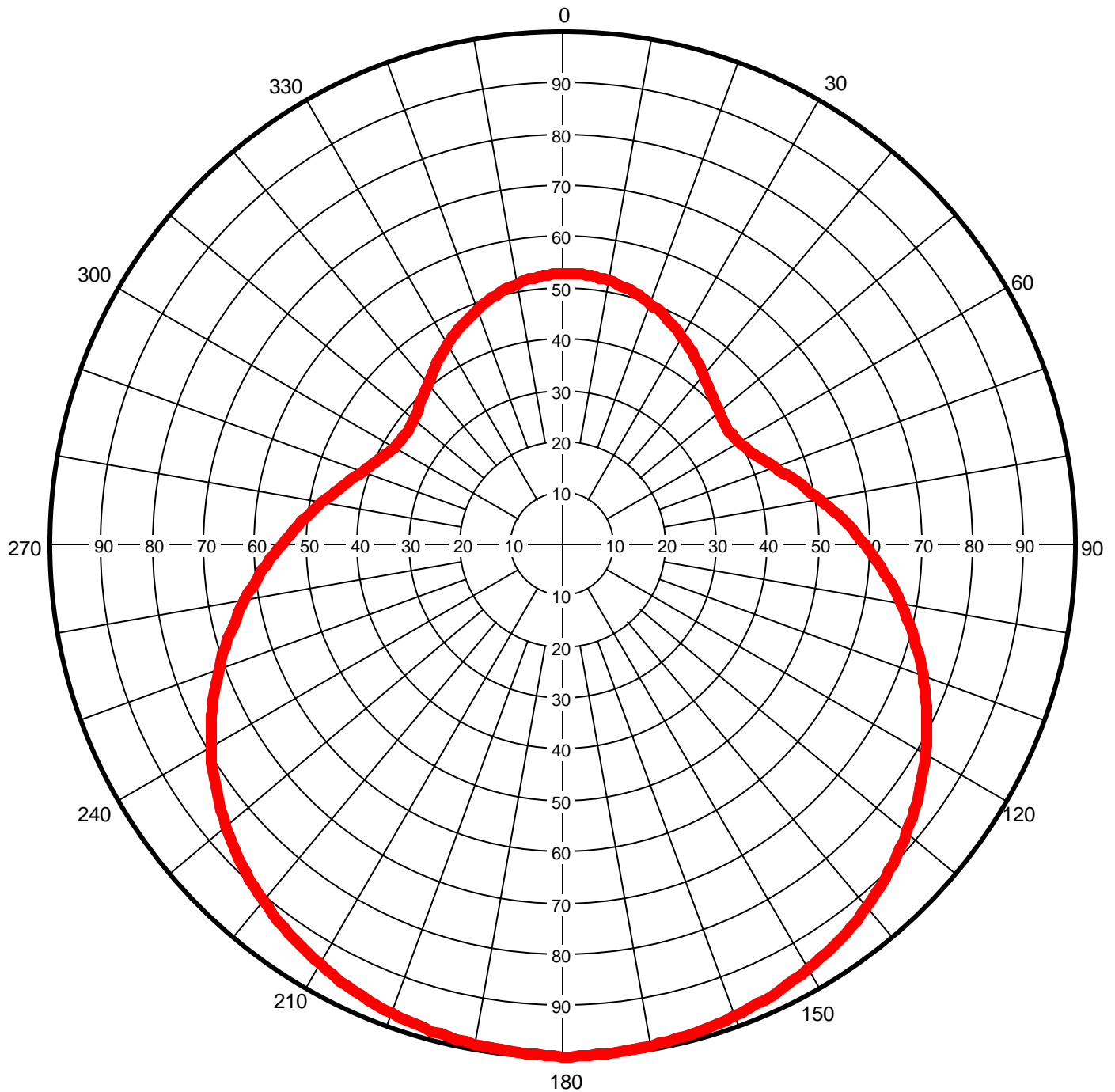
AZIMUTH PATTERN

Gain
Calculated / Measured

2.10 (3.22 dB)
Calculated

Frequency
Drawing #

509 MHz
DSB-C



Remarks:



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#1

Date **23 Jul 2004**
Call Letters **KAME** Channel **20**
Location **Reno**
Customer
Antenna Type **TFU-24DSB-C (C)**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **DSB-C**

Angle	Field	ERP (kW)	ERP (dBk)
0	0.527	305.1	24.85
10	0.522	299.4	24.76
20	0.500	274.7	24.39
30	0.467	239.6	23.80
40	0.430	203.1	23.08
50	0.400	175.8	22.45
60	0.398	174.0	22.41
70	0.440	212.7	23.28
80	0.510	285.8	24.56
90	0.590	382.5	25.83
100	0.671	494.7	26.94
110	0.748	614.7	27.89
120	0.818	735.2	28.66
130	0.877	845.0	29.27
140	0.924	938.0	29.72
150	0.958	1008.3	30.04
160	0.980	1055.2	30.23
170	0.994	1085.6	30.36
180	1.000	1098.7	30.41
190	0.990	1076.8	30.32
200	0.973	1040.2	30.17
210	0.946	983.2	29.93
220	0.907	903.8	29.56
230	0.857	806.9	29.07
240	0.792	689.2	28.38
250	0.713	558.5	27.47
260	0.628	433.3	26.37
270	0.547	328.7	25.17
280	0.474	246.9	23.92
290	0.414	188.3	22.75
300	0.378	157.0	21.96
310	0.378	157.0	21.96
320	0.408	182.9	22.62
330	0.449	221.5	23.45
340	0.487	260.6	24.16
350	0.515	291.4	24.64

Maxima

Angle	Field	ERP (kW)	ERP (dBk)
2	0.528	306.3	24.86
180	1.000	1098.7	30.41

Minima

Angle	Field	ERP (kW)	ERP (dBk)
56	0.393	169.7	22.30
305	0.373	152.9	21.84

Remarks:



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 Antenna Type **TFU-24DSB-C (C)**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **DSB-C**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.527	45	0.413	90	0.590	135	0.902	180	1.000	225	0.884	270	0.547	315	0.390
1	0.528	46	0.410	91	0.598	136	0.907	181	0.999	226	0.878	271	0.539	316	0.394
2	0.528	47	0.407	92	0.606	137	0.911	182	0.998	227	0.873	272	0.532	317	0.397
3	0.528	48	0.405	93	0.614	138	0.916	183	0.997	228	0.868	273	0.524	318	0.401
4	0.527	49	0.402	94	0.622	139	0.920	184	0.996	229	0.862	274	0.517	319	0.404
5	0.527	50	0.400	95	0.630	140	0.924	185	0.995	230	0.857	275	0.510	320	0.408
6	0.526	51	0.398	96	0.638	141	0.928	186	0.995	231	0.851	276	0.502	321	0.412
7	0.525	52	0.396	97	0.646	142	0.932	187	0.994	232	0.845	277	0.495	322	0.416
8	0.524	53	0.395	98	0.654	143	0.935	188	0.993	233	0.839	278	0.488	323	0.420
9	0.523	54	0.394	99	0.663	144	0.939	189	0.992	234	0.833	279	0.481	324	0.424
10	0.522	55	0.393	100	0.671	145	0.942	190	0.990	235	0.826	280	0.474	325	0.428
11	0.520	56	0.393	101	0.679	146	0.946	191	0.989	236	0.820	281	0.468	326	0.432
12	0.518	57	0.394	102	0.686	147	0.949	192	0.988	237	0.813	282	0.461	327	0.437
13	0.517	58	0.395	103	0.694	148	0.952	193	0.986	238	0.806	283	0.455	328	0.441
14	0.515	59	0.396	104	0.702	149	0.955	194	0.985	239	0.799	284	0.448	329	0.445
15	0.512	60	0.398	105	0.710	150	0.958	195	0.983	240	0.792	285	0.442	330	0.449
16	0.510	61	0.400	106	0.718	151	0.960	196	0.981	241	0.784	286	0.436	331	0.453
17	0.508	62	0.403	107	0.725	152	0.963	197	0.980	242	0.777	287	0.430	332	0.457
18	0.505	63	0.406	108	0.733	153	0.965	198	0.978	243	0.769	288	0.425	333	0.461
19	0.503	64	0.410	109	0.741	154	0.968	199	0.976	244	0.761	289	0.420	334	0.465
20	0.500	65	0.414	110	0.748	155	0.970	200	0.973	245	0.754	290	0.414	335	0.469
21	0.497	66	0.419	111	0.755	156	0.972	201	0.971	246	0.746	291	0.410	336	0.472
22	0.494	67	0.423	112	0.763	157	0.974	202	0.969	247	0.737	292	0.405	337	0.476
23	0.491	68	0.429	113	0.770	158	0.976	203	0.966	248	0.729	293	0.401	338	0.480
24	0.488	69	0.434	114	0.777	159	0.978	204	0.964	249	0.721	294	0.396	339	0.483
25	0.484	70	0.440	115	0.784	160	0.980	205	0.961	250	0.713	295	0.393	340	0.487
26	0.481	71	0.446	116	0.791	161	0.982	206	0.958	251	0.704	296	0.389	341	0.490
27	0.477	72	0.452	117	0.798	162	0.983	207	0.955	252	0.696	297	0.386	342	0.493
28	0.474	73	0.459	118	0.804	163	0.985	208	0.952	253	0.687	298	0.383	343	0.497
29	0.470	74	0.465	119	0.811	164	0.986	209	0.949	254	0.679	299	0.381	344	0.500
30	0.467	75	0.472	120	0.818	165	0.988	210	0.946	255	0.670	300	0.378	345	0.502
31	0.463	76	0.479	121	0.824	166	0.989	211	0.942	256	0.662	301	0.377	346	0.505
32	0.459	77	0.487	122	0.830	167	0.990	212	0.939	257	0.653	302	0.375	347	0.508
33	0.455	78	0.494	123	0.837	168	0.991	213	0.935	258	0.645	303	0.374	348	0.510
34	0.452	79	0.502	124	0.843	169	0.993	214	0.932	259	0.637	304	0.373	349	0.513
35	0.448	80	0.510	125	0.849	170	0.994	215	0.928	260	0.628	305	0.373	350	0.515
36	0.444	81	0.517	126	0.855	171	0.995	216	0.924	261	0.620	306	0.373	351	0.517
37	0.440	82	0.525	127	0.860	172	0.995	217	0.920	262	0.611	307	0.374	352	0.519
38	0.437	83	0.533	128	0.866	173	0.996	218	0.916	263	0.603	308	0.375	353	0.520
39	0.433	84	0.541	129	0.872	174	0.997	219	0.912	264	0.595	309	0.376	354	0.522
40	0.430	85	0.549	130	0.877	175	0.998	220	0.907	265	0.587	310	0.378	355	0.523
41	0.426	86	0.557	131	0.882	176	0.998	221	0.903	266	0.579	311	0.380	356	0.524
42	0.423	87	0.565	132	0.887	177	0.999	222	0.898	267	0.571	312	0.382	357	0.525
43	0.419	88	0.573	133	0.892	178	0.999	223	0.893	268	0.563	313	0.385	358	0.526
44	0.416	89	0.581	134	0.897	179	0.999	224	0.889	269	0.555	314	0.387	359	0.527

Remarks:

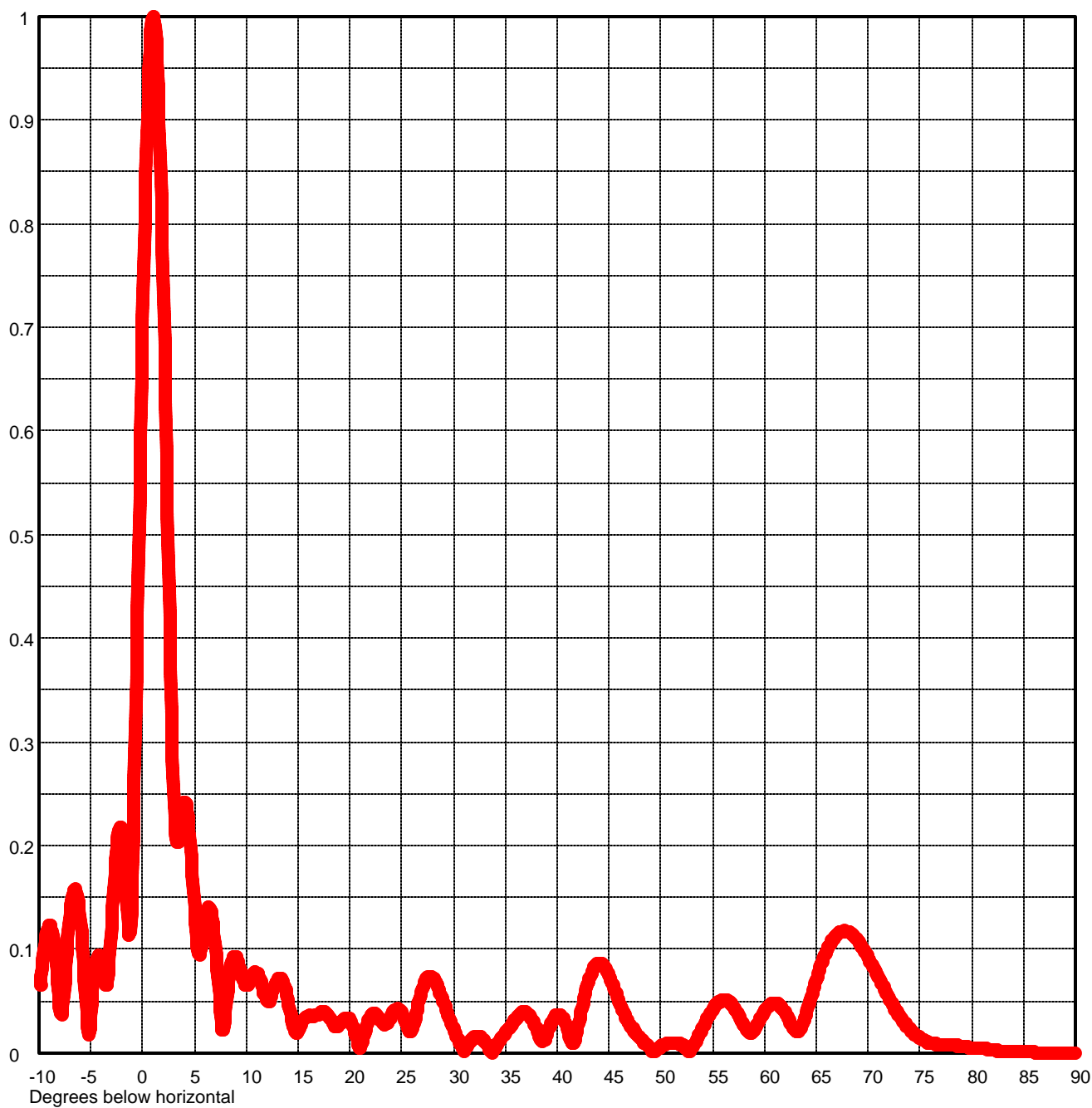


Exhibit No.
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Date	23 Jul 2004	
Call Letters	KAME	Channel 20
Location	Reno	
Customer		
Antenna Type	TFU-24DSB-C (C)	

ELEVATION PATTERN

RMS Gain at Main Lobe	24.0 (13.80 dB)	Beam Tilt	1.00 Degrees
RMS Gain at Horizontal	11.9 (10.76 dB)	Frequency	509.00 MHz
Calculated / Measured	Calculated	Drawing #	24B240100-90



Remarks:



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23 Jul 2004
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Reno
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Channel 20

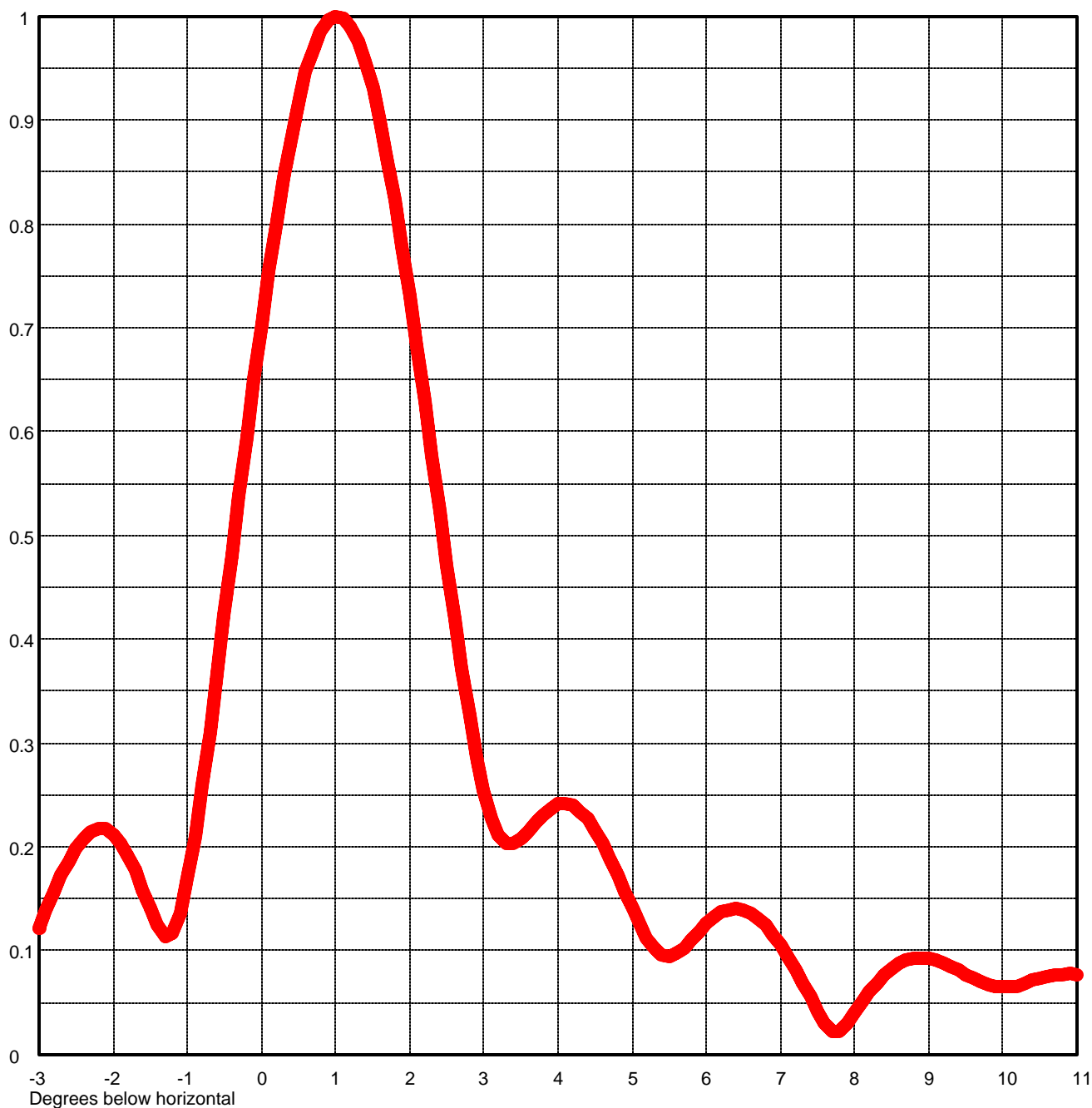
ELEVATION PATTERN

RMS Gain at Main Lobe
RMS Gain at Horizontal
Calculated / Measured

24.0 (13.80 dB)
11.9 (10.76 dB)
Calculated

Beam Tilt
Frequency
Drawing #

1.00 Degrees
509.00 MHz
24B240100



Remarks:



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TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **24B240100-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.063	2.4	0.524	10.6	0.075	30.5	0.012	51.0	0.010	71.5	0.063
-9.5	0.099	2.6	0.420	10.8	0.077	31.0	0.002	51.5	0.010	72.0	0.053
-9.0	0.123	2.8	0.327	11.0	0.077	31.5	0.009	52.0	0.008	72.5	0.044
-8.5	0.101	3.0	0.254	11.5	0.066	32.0	0.015	52.5	0.004	73.0	0.036
-8.0	0.045	3.2	0.211	12.0	0.051	32.5	0.016	53.0	0.004	73.5	0.029
-7.5	0.069	3.4	0.203	12.5	0.057	33.0	0.011	53.5	0.013	74.0	0.023
-7.0	0.134	3.6	0.215	13.0	0.070	33.5	0.003	54.0	0.023	74.5	0.018
-6.5	0.158	3.8	0.231	13.5	0.069	34.0	0.005	54.5	0.033	75.0	0.014
-6.0	0.127	4.0	0.241	14.0	0.051	34.5	0.013	55.0	0.042	75.5	0.011
-5.5	0.056	4.2	0.240	14.5	0.026	35.0	0.019	55.5	0.048	76.0	0.010
-5.0	0.035	4.4	0.227	15.0	0.020	35.5	0.025	56.0	0.051	76.5	0.009
-4.5	0.087	4.6	0.203	15.5	0.031	36.0	0.032	56.5	0.050	77.0	0.008
-4.0	0.088	4.8	0.173	16.0	0.035	36.5	0.038	57.0	0.045	77.5	0.008
-3.5	0.065	5.0	0.141	16.5	0.035	37.0	0.038	57.5	0.036	78.0	0.007
-3.0	0.122	5.2	0.112	17.0	0.037	37.5	0.033	58.0	0.027	78.5	0.007
-2.8	0.156	5.4	0.096	17.5	0.039	38.0	0.023	58.5	0.020	79.0	0.006
-2.6	0.186	5.6	0.098	18.0	0.034	38.5	0.012	59.0	0.022	79.5	0.006
-2.4	0.208	5.8	0.111	18.5	0.027	39.0	0.018	59.5	0.031	80.0	0.005
-2.2	0.217	6.0	0.126	19.0	0.028	39.5	0.030	60.0	0.040	80.5	0.005
-2.0	0.212	6.2	0.137	19.5	0.033	40.0	0.037	60.5	0.046	81.0	0.004
-1.8	0.192	6.4	0.140	20.0	0.032	40.5	0.034	61.0	0.048	81.5	0.003
-1.6	0.159	6.6	0.136	20.5	0.019	41.0	0.023	61.5	0.045	82.0	0.003
-1.4	0.124	6.8	0.124	21.0	0.004	41.5	0.009	62.0	0.039	82.5	0.002
-1.2	0.117	7.0	0.105	21.5	0.022	42.0	0.025	62.5	0.029	83.0	0.002
-1.0	0.169	7.2	0.081	22.0	0.035	42.5	0.048	63.0	0.021	83.5	0.002
-0.8	0.259	7.4	0.055	22.5	0.037	43.0	0.068	63.5	0.024	84.0	0.001
-0.6	0.366	7.6	0.030	23.0	0.031	43.5	0.082	64.0	0.037	84.5	0.001
-0.4	0.481	7.8	0.022	23.5	0.028	44.0	0.087	64.5	0.054	85.0	0.001
-0.2	0.595	8.0	0.040	24.0	0.036	44.5	0.084	65.0	0.070	85.5	0.001
0.0	0.704	8.2	0.060	24.5	0.042	45.0	0.075	65.5	0.086	86.0	0.001
0.2	0.802	8.4	0.077	25.0	0.039	45.5	0.062	66.0	0.098	86.5	0.000
0.4	0.884	8.6	0.088	25.5	0.026	46.0	0.049	66.5	0.108	87.0	0.000
0.6	0.946	8.8	0.093	26.0	0.023	46.5	0.037	67.0	0.114	87.5	0.000
0.8	0.985	9.0	0.093	26.5	0.042	47.0	0.027	67.5	0.117	88.0	0.000
1.0	1.000	9.2	0.088	27.0	0.062	47.5	0.020	68.0	0.117	88.5	0.000
1.2	0.990	9.4	0.081	27.5	0.073	48.0	0.014	68.5	0.114	89.0	0.000
1.4	0.956	9.6	0.073	28.0	0.072	48.5	0.009	69.0	0.108	89.5	0.000
1.6	0.899	9.8	0.067	28.5	0.063	49.0	0.004	69.5	0.101	90.0	0.000
1.8	0.823	10.0	0.065	29.0	0.049	49.5	0.003	70.0	0.092		
2.0	0.731	10.2	0.066	29.5	0.036	50.0	0.006	70.5	0.083		
2.2	0.630	10.4	0.071	30.0	0.023	50.5	0.009	71.0	0.073		

Remarks: