

Dielectric

Date **May 2006**

Call Letters

Channel 52

Location

Customer

Antenna Type **TFU-16DSB-M****AZIMUTH PATTERN**

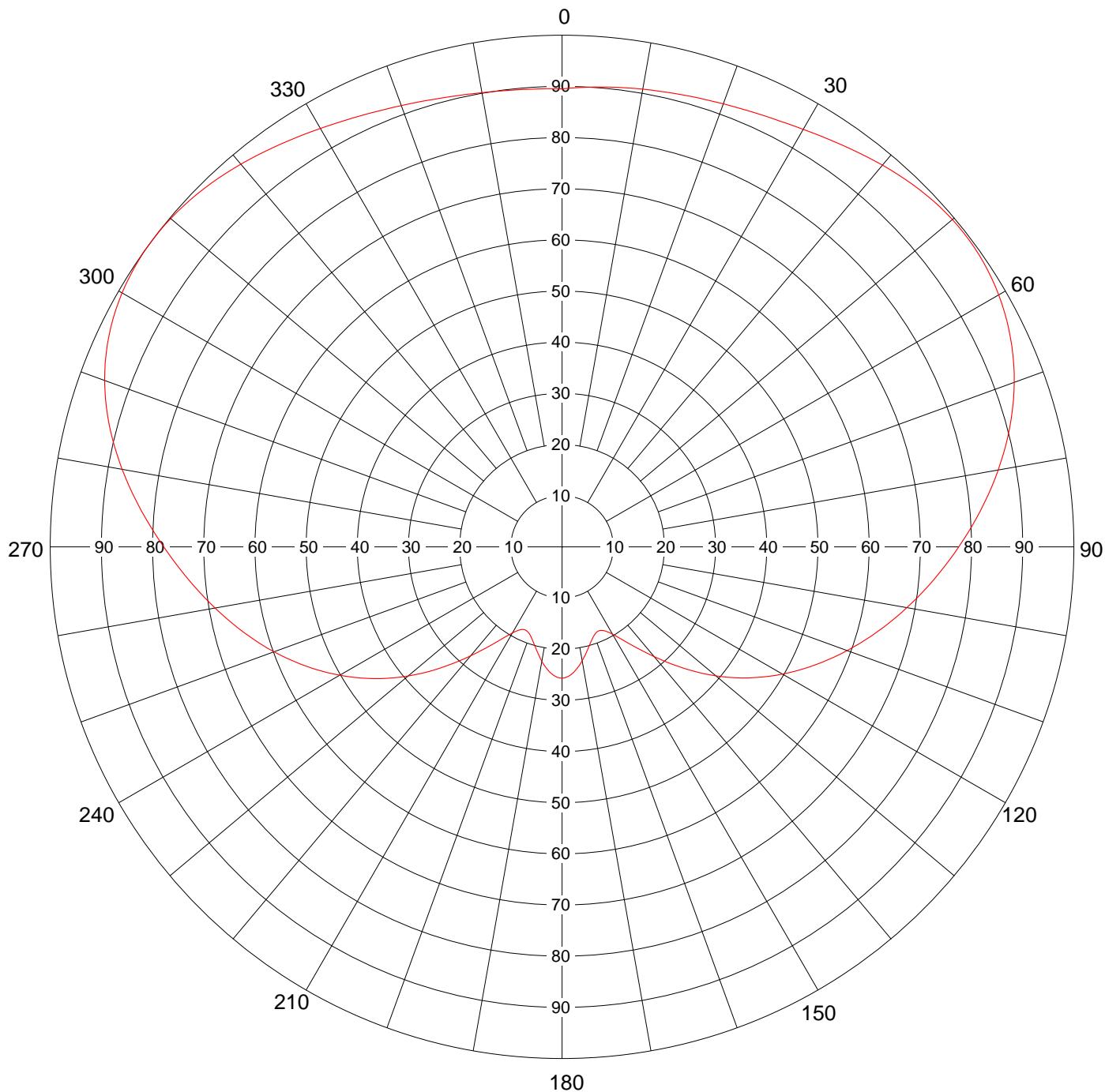
Gain

Calculated / Measured

1.90 (2.79 dB)**Calculated**

Frequency

Drawing #

641 MHz**DSB-M**

Remarks:

Date **May 2006**

Call Letters

Channel **52**

Location

Customer

Antenna Type **TFU-16DSB-M****TABULATION OF AZIMUTH PATTERN**

Azimuth Pattern Drawing #

DSB-M

Angle	Field																
0	0.895	45	0.988	90	0.775	135	0.335	180	0.257	225	0.334	270	0.778	315	0.990		
1	0.897	46	0.990	91	0.766	136	0.324	181	0.256	226	0.346	271	0.788	316	0.987		
2	0.898	47	0.992	92	0.757	137	0.313	182	0.255	227	0.357	272	0.797	317	0.985		
3	0.900	48	0.993	93	0.748	138	0.302	183	0.253	228	0.369	273	0.807	318	0.982		
4	0.901	49	0.994	94	0.739	139	0.291	184	0.251	229	0.381	274	0.816	319	0.979		
5	0.902	50	0.995	95	0.730	140	0.280	185	0.248	230	0.393	275	0.826	320	0.976		
6	0.904	51	0.996	96	0.720	141	0.270	186	0.245	231	0.404	276	0.835	321	0.973		
7	0.905	52	0.996	97	0.711	142	0.260	187	0.241	232	0.415	277	0.845	322	0.970		
8	0.906	53	0.996	98	0.702	143	0.250	188	0.236	233	0.427	278	0.854	323	0.967		
9	0.907	54	0.996	99	0.693	144	0.241	189	0.232	234	0.438	279	0.863	324	0.964		
10	0.908	55	0.995	100	0.684	145	0.232	190	0.227	235	0.449	280	0.873	325	0.960		
11	0.910	56	0.993	101	0.675	146	0.224	191	0.222	236	0.460	281	0.882	326	0.957		
12	0.911	57	0.992	102	0.666	147	0.216	192	0.217	237	0.470	282	0.890	327	0.954		
13	0.912	58	0.990	103	0.657	148	0.209	193	0.212	238	0.481	283	0.899	328	0.951		
14	0.913	59	0.988	104	0.648	149	0.203	194	0.207	239	0.491	284	0.907	329	0.947		
15	0.914	60	0.985	105	0.639	150	0.197	195	0.202	240	0.502	285	0.916	330	0.944		
16	0.916	61	0.982	106	0.630	151	0.192	196	0.198	241	0.512	286	0.923	331	0.941		
17	0.917	62	0.979	107	0.620	152	0.188	197	0.194	242	0.522	287	0.931	332	0.938		
18	0.918	63	0.975	108	0.611	153	0.184	198	0.190	243	0.532	288	0.938	333	0.935		
19	0.920	64	0.971	109	0.602	154	0.182	199	0.186	244	0.542	289	0.945	334	0.933		
20	0.921	65	0.967	110	0.593	155	0.180	200	0.183	245	0.552	290	0.951	335	0.930		
21	0.923	66	0.962	111	0.583	156	0.179	201	0.181	246	0.561	291	0.957	336	0.927		
22	0.925	67	0.957	112	0.574	157	0.179	202	0.179	247	0.571	292	0.963	337	0.925		
23	0.926	68	0.952	113	0.565	158	0.180	203	0.178	248	0.580	293	0.968	338	0.922		
24	0.928	69	0.946	114	0.555	159	0.182	204	0.178	249	0.590	294	0.972	339	0.920		
25	0.930	70	0.940	115	0.546	160	0.184	205	0.178	250	0.599	295	0.977	340	0.918		
26	0.932	71	0.934	116	0.536	161	0.187	206	0.180	251	0.608	296	0.981	341	0.916		
27	0.935	72	0.927	117	0.527	162	0.190	207	0.182	252	0.617	297	0.984	342	0.914		
28	0.937	73	0.920	118	0.517	163	0.194	208	0.185	253	0.626	298	0.987	343	0.912		
29	0.940	74	0.913	119	0.507	164	0.198	209	0.189	254	0.635	299	0.990	344	0.910		
30	0.942	75	0.906	120	0.497	165	0.202	210	0.194	255	0.644	300	0.993	345	0.908		
31	0.945	76	0.898	121	0.487	166	0.207	211	0.200	256	0.653	301	0.995	346	0.907		
32	0.948	77	0.890	122	0.477	167	0.211	212	0.206	257	0.662	302	0.996	347	0.905		
33	0.951	78	0.882	123	0.467	168	0.216	213	0.214	258	0.671	303	0.998	348	0.904		
34	0.954	79	0.874	124	0.457	169	0.221	214	0.221	259	0.680	304	0.999	349	0.903		
35	0.958	80	0.865	125	0.446	170	0.226	215	0.229	260	0.688	305	1.000	350	0.901		
36	0.961	81	0.857	126	0.436	171	0.231	216	0.238	261	0.697	306	1.000	351	0.900		
37	0.964	82	0.848	127	0.425	172	0.235	217	0.248	262	0.706	307	1.000	352	0.899		
38	0.967	83	0.839	128	0.414	173	0.240	218	0.257	263	0.715	308	1.000	353	0.899		
39	0.971	84	0.830	129	0.403	174	0.244	219	0.267	264	0.724	309	0.999	354	0.898		
40	0.974	85	0.821	130	0.392	175	0.247	220	0.278	265	0.733	310	0.998	355	0.897		
41	0.977	86	0.812	131	0.381	176	0.250	221	0.289	266	0.742	311	0.997	356	0.897		
42	0.980	87	0.803	132	0.370	177	0.253	222	0.300	267	0.751	312	0.996	357	0.896		
43	0.983	88	0.794	133	0.358	178	0.255	223	0.311	268	0.760	313	0.994	358	0.896		
44	0.985	89	0.784	134	0.347	179	0.256	224	0.322	269	0.769	314	0.992	359	0.896		

Remarks:

Date **May 2006**

Call Letters

Channel **52**

Location

Customer

Antenna Type **TFU-16DSB-M****ELEVATION PATTERN**

RMS Gain at Main Lobe

16.0 (12.04 dB)

Beam Tilt

1.00 Degrees

RMS Gain at Horizontal

11.8 (10.72 dB)

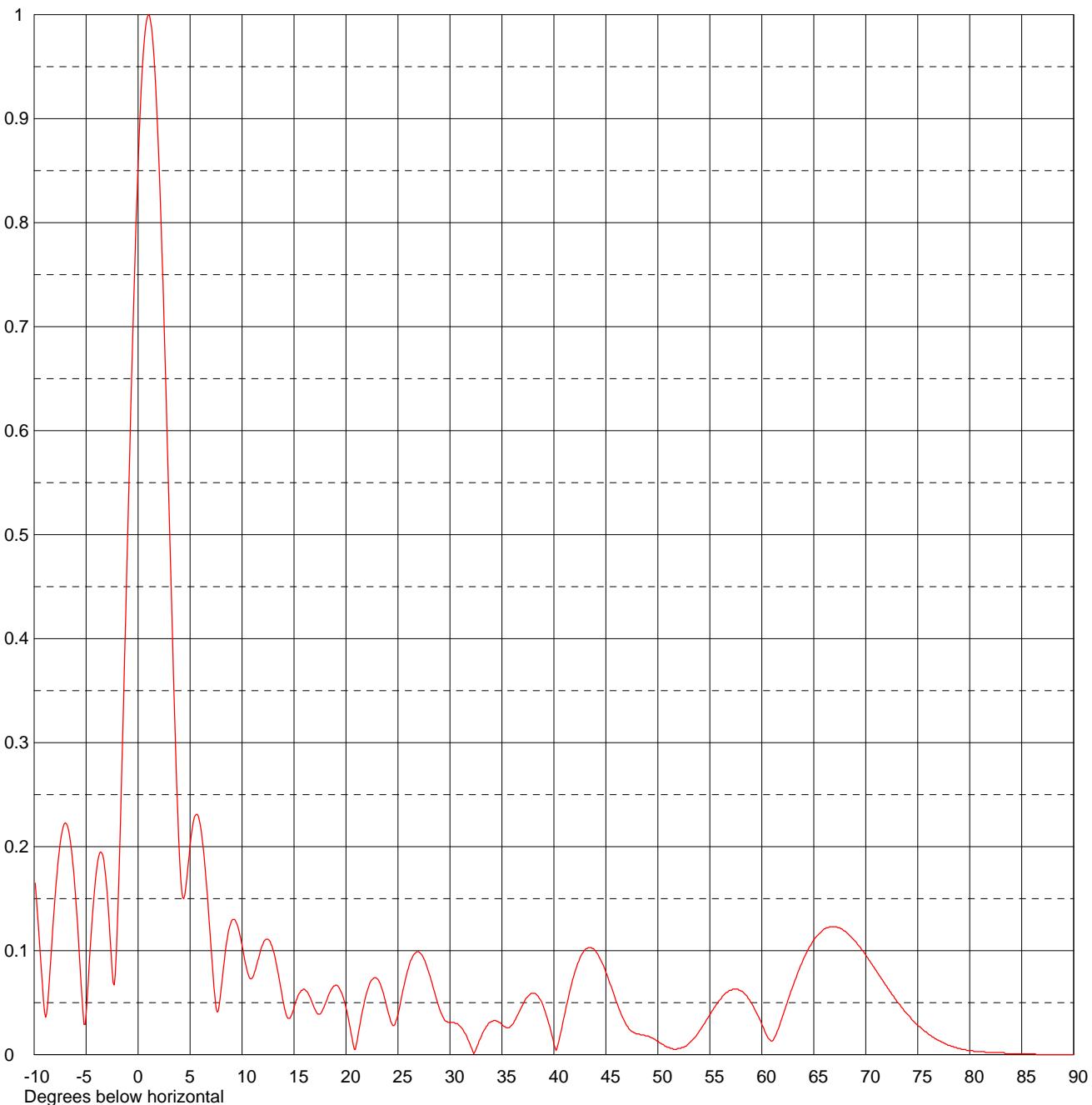
Frequency

641.00 MHz

Calculated / Measured

Calculated

Drawing #

16B160100-90

Remarks:

Date **May 2006**

Exhibit No.

Call Letters

Channel **52**

Location

Customer

Antenna Type **TFU-16DSB-M****TABULATION OF ELEVATION PATTERN**Elevation Pattern Drawing # **16B160100-90**

Angle	Field												
-10.0	0.177	2.4	0.738	10.6	0.077	30.5	0.030	51.0	0.007	71.5	0.073		
-9.5	0.110	2.6	0.667	10.8	0.073	31.0	0.027	51.5	0.005	72.0	0.066		
-9.0	0.041	2.8	0.593	11.0	0.074	31.5	0.020	52.0	0.006	72.5	0.058		
-8.5	0.077	3.0	0.517	11.5	0.090	32.0	0.008	52.5	0.007	73.0	0.051		
-8.0	0.150	3.2	0.441	12.0	0.106	32.5	0.005	53.0	0.011	73.5	0.045		
-7.5	0.203	3.4	0.366	12.5	0.111	33.0	0.017	53.5	0.016	74.0	0.039		
-7.0	0.223	3.6	0.297	13.0	0.100	33.5	0.027	54.0	0.023	74.5	0.033		
-6.5	0.204	3.8	0.235	13.5	0.077	34.0	0.032	54.5	0.030	75.0	0.028		
-6.0	0.150	4.0	0.187	14.0	0.049	34.5	0.032	55.0	0.038	75.5	0.024		
-5.5	0.071	4.2	0.157	14.5	0.035	35.0	0.029	55.5	0.046	76.0	0.020		
-5.0	0.039	4.4	0.150	15.0	0.045	35.5	0.026	56.0	0.053	76.5	0.017		
-4.5	0.118	4.6	0.162	15.5	0.059	36.0	0.029	56.5	0.059	77.0	0.014		
-4.0	0.177	4.8	0.181	16.0	0.063	36.5	0.038	57.0	0.062	77.5	0.011		
-3.5	0.194	5.0	0.201	16.5	0.056	37.0	0.048	57.5	0.063	78.0	0.009		
-3.0	0.159	5.2	0.217	17.0	0.044	37.5	0.056	58.0	0.061	78.5	0.007		
-2.8	0.130	5.4	0.228	17.5	0.039	38.0	0.059	58.5	0.057	79.0	0.006		
-2.6	0.097	5.6	0.231	18.0	0.049	38.5	0.056	59.0	0.050	79.5	0.005		
-2.4	0.069	5.8	0.229	18.5	0.061	39.0	0.046	59.5	0.040	80.0	0.004		
-2.2	0.076	6.0	0.220	19.0	0.067	39.5	0.030	60.0	0.029	80.5	0.003		
-2.0	0.123	6.2	0.205	19.5	0.061	40.0	0.010	60.5	0.018	81.0	0.003		
-1.8	0.188	6.4	0.185	20.0	0.045	40.5	0.014	61.0	0.013	81.5	0.002		
-1.6	0.261	6.6	0.161	20.5	0.020	41.0	0.037	61.5	0.023	82.0	0.002		
-1.4	0.339	6.8	0.134	21.0	0.010	41.5	0.060	62.0	0.037	82.5	0.002		
-1.2	0.420	7.0	0.106	21.5	0.038	42.0	0.079	62.5	0.052	83.0	0.002		
-1.0	0.501	7.2	0.078	22.0	0.060	42.5	0.093	63.0	0.066	83.5	0.001		
-0.8	0.582	7.4	0.054	22.5	0.072	43.0	0.101	63.5	0.080	84.0	0.001		
-0.6	0.659	7.6	0.041	23.0	0.073	43.5	0.103	64.0	0.092	84.5	0.001		
-0.4	0.732	7.8	0.047	23.5	0.062	44.0	0.100	64.5	0.102	85.0	0.001		
-0.2	0.798	8.0	0.064	24.0	0.043	44.5	0.091	65.0	0.110	85.5	0.001		
0.0	0.857	8.2	0.083	24.5	0.028	45.0	0.079	65.5	0.116	86.0	0.001		
0.2	0.907	8.4	0.100	25.0	0.039	45.5	0.066	66.0	0.121	86.5	0.000		
0.4	0.947	8.6	0.113	25.5	0.063	46.0	0.051	66.5	0.123	87.0	0.000		
0.6	0.976	8.8	0.123	26.0	0.083	46.5	0.038	67.0	0.123	87.5	0.000		
0.8	0.994	9.0	0.129	26.5	0.096	47.0	0.028	67.5	0.122	88.0	0.000		
1.0	1.000	9.2	0.130	27.0	0.099	47.5	0.022	68.0	0.119	88.5	0.000		
1.2	0.994	9.4	0.128	27.5	0.092	48.0	0.020	68.5	0.114	89.0	0.000		
1.4	0.977	9.6	0.123	28.0	0.078	48.5	0.019	69.0	0.109	89.5	0.000		
1.6	0.948	9.8	0.115	28.5	0.061	49.0	0.018	69.5	0.103	90.0	0.000		
1.8	0.909	10.0	0.105	29.0	0.044	49.5	0.016	70.0	0.096				
2.0	0.860	10.2	0.094	29.5	0.033	50.0	0.013	70.5	0.088				
2.2	0.802	10.4	0.085	30.0	0.031	50.5	0.010	71.0	0.081				

Remarks: