

## Computation of Signal Level at Ground Level

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Exhibit 12, Table 1

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Horizontal and Vertical Effective Radiated Power      10 watts (H), 10 Watts (V)  
Height of Radiation Center above Ground              142 meters  
Antenna Manufacturer / Type                              Bext, model TFC1-1

Depression Angle (Degrees)	Horiz Distance	Slant Distance	Relative Field	ERP Watts	100 dBu Above Gnd (meters)	dBu at Gnd Level	
1	8135.17	8136.41	1.000	10.000	138.1	68.69	
2	4066.35	4068.83	0.999	9.980	134.3	74.71	
3	2709.52	2713.24	0.999	9.980	130.4	78.23	
4	2030.69	2035.65	0.999	9.980	126.6	80.72	
5	1623.07	1629.27	0.999	9.980	122.7	82.66	
6	1351.04	1358.48	0.998	9.960	118.9	84.23	
7	1156.50	1165.18	0.996	9.920	115.1	85.54	
8	1010.38	1020.31	0.994	9.880	111.4	86.68	
9	896.55	907.73	0.991	9.821	107.7	87.67	
10	805.32	817.75	0.989	9.781	104.0	88.56	
12	668.06	682.98	0.988	9.761	96.5	90.11	
14	569.53	586.97	0.982	9.643	89.4	91.37	
16	495.21	515.17	0.973	9.467	82.6	92.43	
18	437.03	459.52	0.969	9.390	75.7	93.38	
20	390.14	415.18	0.958	9.178	69.5	94.17	
25	304.52	336.00	0.948	8.987	53.3	95.91	
30	245.95	284.00	0.920	8.464	40.2	97.11	
35	202.80	247.57	0.886	7.850	29.5	97.98	
40	169.23	220.91	0.843	7.106	22.0	98.54	
45	142.00	200.82	0.800	6.400	16.8	98.91	
<b>50</b>	<b>119.15</b>	<b>185.37</b>	<b>0.746</b>	<b>5.565</b>	<b>15.5</b>	<b>99.00</b>	Max dBu
55	99.43	173.35	0.690	4.761	16.9	98.90	
60	81.98	163.97	0.628	3.944	21.6	98.57	
65	66.22	156.68	0.564	3.181	28.8	98.03	
70	51.68	151.11	0.499	2.490	38.2	97.28	
75	38.05	147.01	0.428	1.832	50.5	96.19	
80	25.04	144.19	0.355	1.260	64.6	94.73	
85	12.42	142.54	0.282	0.795	79.8	92.83	
90	0.00	142.00	0.206	0.424	96.4	90.14	

Maximum dBu at Ground level: 99.00 dBu.