

# Exhibit 13

*Freespace Interference Study based on Vertical Radiation Pattern - Nicom BKG-77*

*Flex-space program based on applying array function to EPA vertical field pattern data*

Depression Angle from Antenna	Antenna Relative Field	Multibay Relative Field	ERP Watts	ERP dBk	Distance to Rooftop from Antenna (m)	Free Space Signal (dBu)	Signal Strength at Ground (dBu)	Circular Distance From Tower (m)	Distance to Contour using Free Space (m)	Height of Contour above Rooftop (m)
90	0.001	0.000	0.000	-401.25	132.00	-276.74	-276.74	0.00	0.00	132.00
85	0.001	0.000	0.000	-121.46	132.50	3.02	3.02	11.55	0.00	132.00
80	0.007	0.000	0.000	-92.53	134.04	31.84	31.84	23.28	0.01	131.99
75	0.019	0.001	0.000	-76.85	136.66	47.36	47.36	35.37	0.07	131.93
70	0.040	0.004	0.000	-65.43	140.47	58.54	58.54	48.04	0.26	131.75
65	0.073	0.011	0.002	-56.40	145.65	67.26	67.26	61.55	0.74	131.33
60	0.120	0.025	0.013	-49.01	152.42	74.25	74.25	76.21	1.73	130.50
55	0.176	0.049	0.049	-43.13	161.14	79.65	79.65	92.43	3.40	129.21
50	0.247	0.089	0.158	-38.03	172.31	84.17	84.17	110.76	6.12	127.31
45	0.330	0.147	0.429	-33.67	186.68	87.83	87.83	132.00	10.10	124.86
40	0.423	0.225	1.013	-29.94	205.36	90.73	90.73	157.31	15.52	122.02
35	0.523	0.325	2.109	-26.76	230.13	92.92	92.92	188.52	22.39	119.16
30	0.624	0.441	3.894	-24.10	264.00	94.39	94.39	228.63	30.42	116.79
25	0.723	0.569	6.486	-21.88	312.34	95.15	95.15	283.07	39.26	115.41
20	0.814	0.699	9.781	-20.10	385.94	95.09	95.09	362.67	48.22	115.51
15	0.891	0.818	13.395	-18.73	510.01	94.04	94.04	492.63	56.42	117.40
10	0.950	0.915	16.740	-17.76	760.16	91.54	91.54	748.61	63.08	121.05
5	0.987	0.978	19.120	-17.19	1514.53	86.13	86.13	1508.77	67.41	126.12
0	1.000	1.000	20.000	-16.99	132.00					

Maximum ERP	20 watts	Max dBu at Rooftop Level	95.15	Lowest Height of Contour (m)	115.41
Radiation Center Ht	132.0 m above rooftop			Lowest Height of Contour (ft)	378.63
Radiation Center Ht	433 ft. above rooftop	Antenna Type	NIC BKG77		
Maximum ERP	-16.99 dBk	# of Bays	2		
Protected dBu	73.16 dBu	Bay spacing	0.5 wavelengths		
Interfering dBu	113.16 dBu	Freq	98.9 MHz		
Free Space Distance	68.95 m	Length	4.98 ft		
	226 ft.		1.52 m		
		Top	132.76 m		
			435.55 ft		

