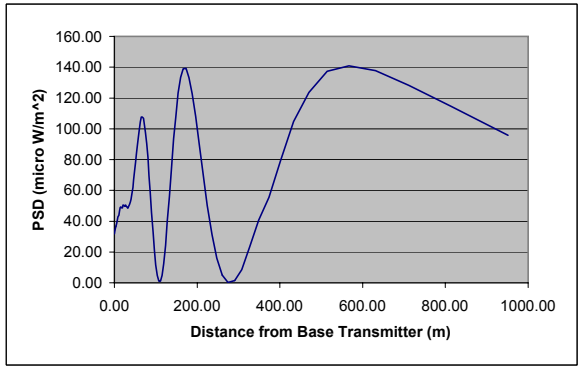
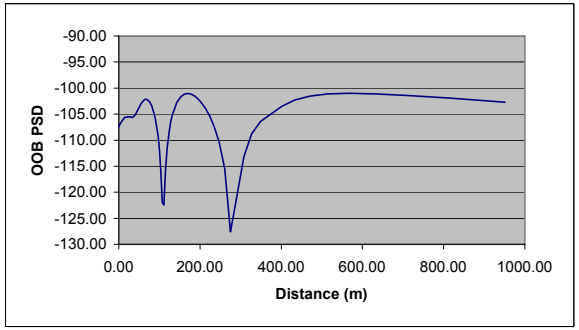
PSD	3000			MicroW/m^2	Effective area	0.02	m^2	1.64	1/2 wave dipole
	4.771212547			dBm/m^2		-16.76	dB(m^2)		
Tx ERP	1.0001	5	50	KW	Frequency	746	MHz		
Tx Gain	10.5	10.5	10.5	dBd	Wavelength	0.40	m		
	12.6	12.6	12.6	dBi					
Tx power	19.5	26.5	36.5	dBW					
Required Attenuatio	62.5	69.5	79.5	dB					
OOB PSD	-57.7	-64.7	-74.7	dBm/100 kHz/m^2					
OOB in to 1/2 wave dipole @746 MHz	-86.5	-93.5	-103.5	dBm/6.25 kHz					
	28.80	28.80	28.80						

Tx ERP	1000	W				
EIRP	1640	W		max	max	
req attn	62.5	dB		140.9206	-101.0103	
Base Height	100	m		in-band	out-band	

Angle	Rel Gain	Distance from base (m)	Path dist (m)	Spread dB(m^2)	PSD dBW/m^2	microW/m^2	dBm/100 kHz/m^2	OOB in to 1/2 wave dipole @746 MHz
0	-0.02	-	-					
-1	-0.13	5729.00	5729.87	86.15	-54.14	3.86	-116.64	-145.44
-2	-0.31	2863.63	2865.37	80.14	-48.30	14.80	-110.80	-139.60
-3	-0.56	1908.11	1910.73	76.62	-45.03	31.42	-107.53	-136.33
-4	-0.87	1430.07	1433.56	74.12	-42.84	51.98	-105.34	-134.14
-5	-1.27	1143.01	1147.37	72.19	-41.31	74.00	-103.81	-132.61
-6	-1.73	951.44	956.68	70.61	-40.19	95.74	-102.69	-131.49
-7	-2.29	814.43	820.55	69.27	-39.42	114.40	-101.92	-130.72
-8	-2.95	711.54	718.53	68.12	-38.92	128.16	-101.42	-130.23
-9	-3.65	631.38	639.25	67.11	-38.61	137.82	-101.11	-129.91
-10	-4.46	567.13	575.88	66.20	-38.51	140.92	-101.01	-129.81
-11	-5.39	514.46	524.08	65.38	-38.62	137.35	-101.12	-129.92
-12	-6.59	470.46	480.97	64.63	-39.08	123.71	-101.58	-130.38
-13	-8	433.15	444.54	63.95	-39.80	104.67	-102.30	-131.10
-14	-9.85	401.08	413.36	63.32	-41.02	79.07	-103.52	-132.32
-15	-11.98	373.21	386.37	62.73	-42.56	55.41	-105.06	-133.87
-16	-13.86	348.74	362.80	62.19	-43.90	40.77	-106.40	-135.20
-17	-16.77	327.09	342.03	61.67	-46.29	23.47	-108.79	-137.60
-18	-21.6	307.77	323.61	61.19	-50.64	8.62	-113.14	-141.95
-19	-29.69	290.42	307.16	60.74	-58.28	1.49	-120.78	-149.58
-20	-36.95	274.75	292.38	60.31	-65.11	0.31	-127.61	-156.42
-21	-25.25	260.51	279.04	59.91	-53.01	5.00	-115.51	-144.31
-22	-20.6	247.51	266.95	59.52	-47.97	15.95	-110.47	-139.28
-23	-18.04	235.59	255.93	59.15	-45.05	31.29	-107.55	-136.35
-24	-16.33	224.60	245.86	58.81	-42.99	50.26	-105.49	-134.29
-25	-15.16	214.45	236.62	58.47	-41.48	71.04	-103.98	-132.79
-26	-14.44	205.03	228.12	58.16	-40.45	90.22	-102.95	-131.75
-27	-13.96	196.26	220.27	57.85	-39.66	108.08	-102.16	-130.97
-28	-13.7	188.07	213.01	57.56	-39.11	122.70	-101.61	-130.41
-29	-13.62	180.40	206.27	57.28	-38.75	133.28	-101.25	-130.06
-30	-13.7	173.21	200.00	57.01	-38.56	139.18	-101.06	-129.87
-31	-13.96	166.43	194.16	56.76	-38.57	139.10	-101.07	-129.87
-32	-14.39	160.03	188.71	56.51	-38.75	133.37	-101.25	-130.05
-33	-14.97	153.99	183.61	56.27	-39.09	123.27	-101.59	-130.39
-34	-15.78	148.26	178.83	56.04	-39.67	107.83	-102.17	-130.98
-35	-16.62	142.81	174.34	55.82	-40.29	93.50	-102.79	-131.59
-36	-17.9	137.64	170.13	55.61	-41.36	73.13	-103.86	-132.66
-37	-19.25	132.70	166.16	55.40	-42.50	56.18	-105.00	-133.81
-38	-20.95	127.99	162.43	55.21	-44.01	39.75	-106.51	-135.31





-39	-23.26	123.49	158.90	55.01	-46.13	24.40	-108.63	-137.43
-40	-26.44	119.18	155.57	54.83	-49.12	12.24	-111.62	-140.43
-41	-30.74	115.04	152.43	54.65	-53.24	4.74	-115.74	-144.55
-42	-37.63	111.06	149.45	54.48	-59.96	1.01	-122.46	-151.27
-43	-37.33	107.24	146.63	54.32	-59.50	1.12	-122.00	-150.80
-44	-31.16	103.55	143.96	54.16	-53.17	4.82	-115.67	-144.47
-45	-27.48	100.00	141.42	54.00	-49.33	11.66	-111.83	-140.64
-46	-25.03	96.57	139.02	53.85	-46.73	21.21	-109.23	-138.04
-47	-23.28	93.25	136.73	53.71	-44.84	32.80	-107.34	-136.14
-48	-22	90.04	134.56	53.57	-43.42	45.48	-105.92	-134.73
-49	-21.04	86.93	132.50	53.44	-42.33	58.51	-104.83	-133.63
-50	-20.42	83.91	130.54	53.31	-41.58	69.53	-104.08	-132.88
-51	-19.87	80.98	128.68	53.18	-40.90	81.22	-103.40	-132.21
-52	-19.53	78.13	126.90	53.06	-40.44	90.30	-102.94	-131.75
-53	-19.31	75.36	125.21	52.95	-40.11	97.57	-102.61	-131.41
-54	-19.22	72.65	123.61	52.83	-39.90	102.22	-102.40	-131.21
-55	-19.14	70.02	122.08	52.72	-39.72	106.75	-102.22	-131.02
-56	-19.21	67.45	120.62	52.62	-39.68	107.59	-102.18	-130.99
-57	-19.31	64.94	119.24	52.52	-39.68	107.60	-102.18	-130.98
-58	-19.53	62.49	117.92	52.42	-39.81	104.59	-102.31	-131.11
-59	-19.83	60.09	116.66	52.33	-40.01	99.72	-102.51	-131.32
-60	-20.14	57.74	115.47	52.24	-40.23	94.78	-102.73	-131.54
-61	-20.47	55.43	114.34	52.16	-40.48	89.59	-102.98	-131.78
-62	-20.82	53.17	113.26	52.07	-40.74	84.24	-103.24	-132.05
-63	-21.24	50.95	112.23	51.99	-41.09	77.87	-103.59	-132.39
-64	-21.63	48.77	111.26	51.92	-41.40	72.44	-103.90	-132.70
-65	-22.05	46.63	110.34	51.85	-41.75	66.86	-104.25	-133.05
-66	-22.45	44.52	109.46	51.78	-42.08	61.96	-104.58	-133.38
-67	-22.79	42.45	108.64	51.71	-42.35	58.17	-104.85	-133.66
-68	-23.15	40.40	107.85	51.65	-42.65	54.32	-105.15	-133.95
-69	-23.36	38.39	107.11	51.59	-42.80	52.47	-105.30	-134.10
-70	-23.57	36.40	106.42	51.53	-42.95	50.65	-105.45	-134.26
-71	-23.7	34.43	105.76	51.48	-43.03	49.77	-105.53	-134.33
-72	-23.87	32.49	105.15	51.43	-43.15	48.42	-105.65	-134.45
-73	-23.87	30.57	104.57	51.38	-43.10	48.96	-105.60	-134.40
-74	-23.85	28.67	104.03	51.34	-43.04	49.70	-105.54	-134.34
-75	-23.82	26.79	103.53	51.29	-42.96	50.53	-105.46	-134.27
-76	-23.94	24.93	103.06	51.25	-43.05	49.60	-105.55	-134.35
-77	-23.91	23.09	102.63	51.22	-42.98	50.36	-105.48	-134.28
-78	-23.94	21.26	102.23	51.18	-42.98	50.40	-105.48	-134.28
-79	-24.13	19.44	101.87	51.15	-43.13	48.59	-105.63	-134.44
-80	-24.16	17.63	101.54	51.13	-43.14	48.57	-105.64	-134.44
-81	-24.13	15.84	101.25	51.10	-43.08	49.19	-105.58	-134.38
-82	-24.19	14.05	100.98	51.08	-43.12	48.77	-105.62	-134.42
-83	-24.42	12.28	100.75	51.06	-43.33	46.47	-105.83	-134.63
-84	-24.68	10.51	100.55	51.04	-43.57	43.94	-106.07	-134.87
-85	-24.81	8.75	100.38	51.03	-43.69	42.79	-106.19	-134.99
-86	-25.06	6.99	100.24	51.01	-43.92	40.51	-106.42	-135.23
-87	-25.29	5.24	100.14	51.00	-44.15	38.50	-106.65	-135.45
-88	-25.49	3.49	100.06	51.00	-44.34	36.82	-106.84	-135.64
-89	-25.77	1.75	100.02	50.99	-44.61	34.55	-107.11	-135.92
-90	-26.13	0.00	100.00	50.99	-44.97	31.82	-107.47	-136.28