

ITU Off-Aixs EIRP Mask Calculation

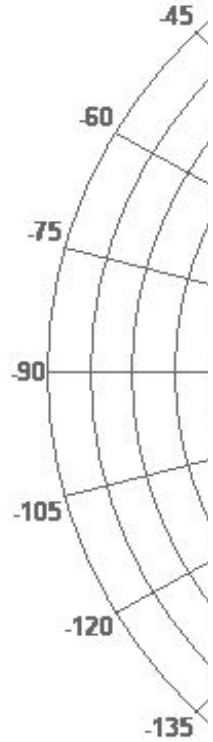
2008

Operator: OH SE KAE

BUC (W)	3.5	5
Bandwidth (kHz)	1250	625

Theta[deg]	ITU mask	Tx Gain (linear pole)	Tx Gain (dBi)	Actual EIRP (dBW/4 kHz)	Actual EIRP (dBW/4 kHz)
1.00	31.74	24.12	27.12	7.61	12.17
2.00	24.77	23.24	26.24	6.74	11.30
3.00	20.37	20.07	23.07	3.56	8.12
4.00	17.25	17.68	20.68	1.17	5.73
5.00	14.83	10.67	13.67	-5.84	-1.28
6.00	12.85	5.28	8.28	-11.23	-6.67
7.00	11.17	-11.22	-8.22	-27.73	-23.17
8.00	11.30	-1.49	1.51	-18.00	-13.44
9.00	11.30	4.64	7.64	-11.87	-7.31
10.00	10.30	6.12	9.12	-10.39	-5.83
11.00	9.27	6.97	9.97	-9.54	-4.98
12.00	8.32	6.25	9.25	-10.26	-5.70
13.00	7.45	1.97	4.97	-14.54	-9.98
14.00	6.65	-1.91	1.09	-18.42	-13.86
15.00	5.90	-7.28	-4.28	-23.79	-19.23
16.00	5.20	-6.01	-3.01	-22.51	-17.96
17.00	4.54	-8.47	-5.47	-24.98	-20.42
18.00	3.92	-11.40	-8.40	-27.90	-23.35
19.00	3.33	-2.89	0.11	-19.40	-14.84
20.00	2.77	-0.43	2.57	-16.94	-12.38
21.00	2.24	1.26	4.26	-15.25	-10.69
22.00	1.74	0.81	3.81	-15.70	-11.14
23.00	1.26	-1.91	1.09	-18.42	-13.86
24.00	0.79	-3.16	-0.16	-19.66	-15.10
25.00	0.35	-3.98	-0.98	-20.49	-15.93
26.00	-0.07	-4.18	-1.18	-20.69	-16.13
27.00	-0.48	-6.90	-3.90	-23.41	-18.85
28.00	-0.88	-7.93	-4.93	-24.44	-19.88
29.00	-1.26	-2.75	0.25	-19.25	-14.69
30.00	-1.63	1.11	4.11	-15.40	-10.84
31.00	-1.98	2.25	5.25	-14.26	-9.70
32.00	-2.33	2.80	5.80	-13.71	-9.15
33.00	-2.66	3.12	6.12	-13.38	-8.82
34.00	-2.99	3.09	6.09	-13.42	-8.86
35.00	-3.30	2.96	5.96	-13.55	-8.99
36.00	-3.61	2.87	5.87	-13.63	-9.08
37.00	-3.91	2.50	5.50	-14.00	-9.44
38.00	-4.19	2.29	5.29	-14.21	-9.66
39.00	-4.48	1.90	4.90	-14.61	-10.05
40.00	-4.75	1.85	4.85	-14.66	-10.10
41.00	-5.02	2.09	5.09	-14.42	-9.86

Amplitude [dB]



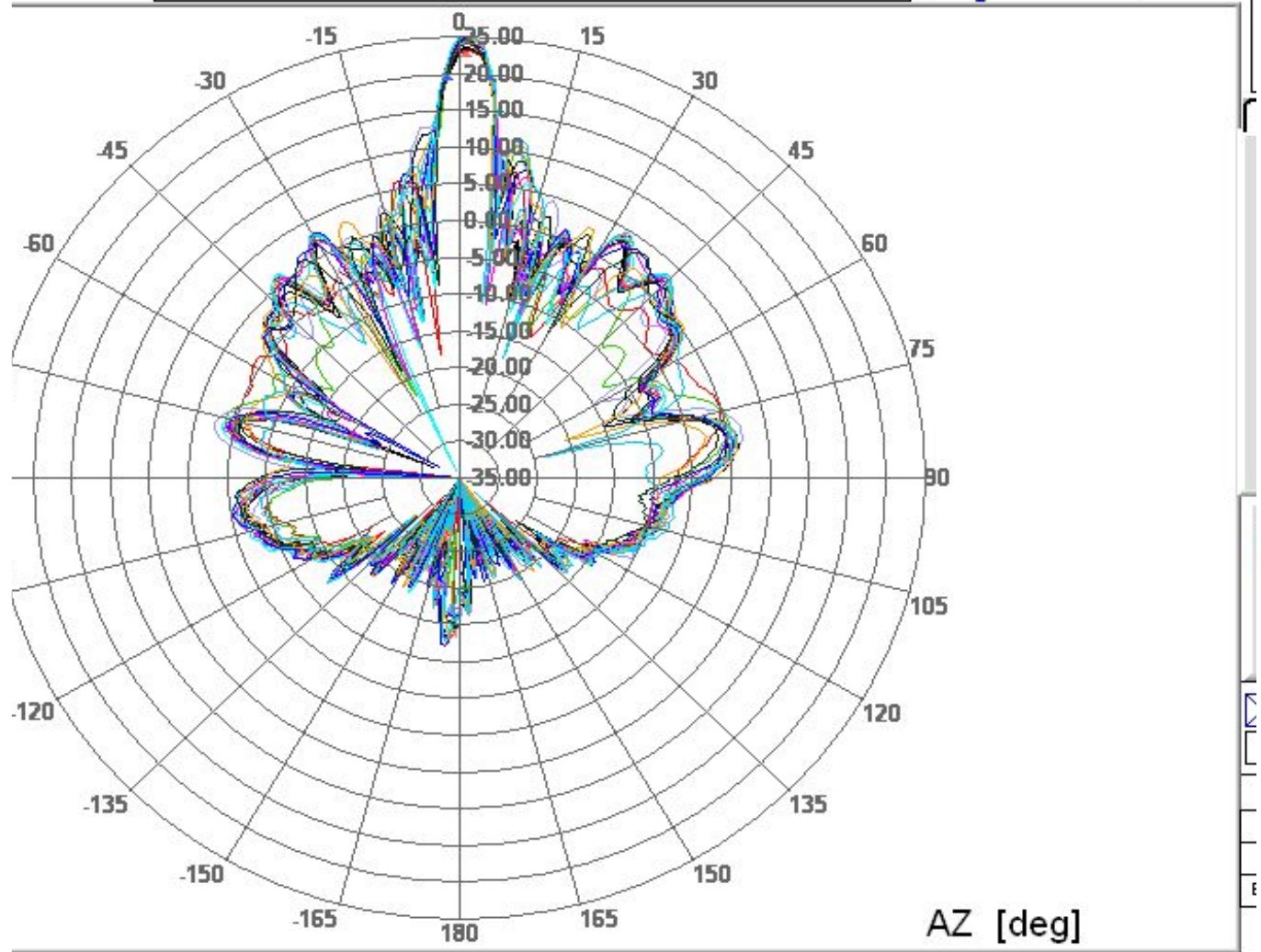
A	P	File Name
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		Singapore_2008_Tx_R-72_P0_Ae-CA
		Singapore_2008_Tx_R-72_P0_Ae-CA

42.00	-5.28	2.23	5.23	-14.28	-9.72
43.00	-5.54	2.28	5.28	-14.23	-9.67
44.00	-5.79	2.06	5.06	-14.44	-9.88
45.00	-6.03	1.27	4.27	-15.24	-10.68
46.00	-6.27	0.78	3.78	-15.73	-11.17
47.00	-6.50	-0.36	2.64	-16.87	-12.31
48.00	-6.73	-0.99	2.01	-17.49	-12.93

Off-axis Mask Maximum EIRP Density Specific		theta[deg]
26.3-25log(theta)	dBW/4kHz	1 ~ 7
5.3		7 ~ 9.2
29.3-25log(theta)		9.2 ~ 48

008 Helix Tx-Beam pattern

Date: 2/5/2009 1:17 PM



	Freq. [GHz]	Ch.	Beam	Switch	Beam Peak [dB]			Beam Width [deg]			Null Depth	
					Value	[deg]	P	Value	At dB	P	Value	[deg]
z-CA	6.320 G	CH1			24.70	1.00	P	4.75	3.00	P		
z-CA	6.330 G	CH1			25.09	1.00	P	4.80	3.00	P		
z-CA	6.400 G	CH1			25.25	1.00	P	4.83	3.00	P		
z-CA	6.450 G	CH1			24.73	1.00	P	4.80	3.00	P		
z-CA	6.500 G	CH1			24.72	1.00	P	4.79	3.00	P		

5
33
32 -28.52842 36.0206

7.49218 -12.50782

tern

▲
▼

Side lobes
Database
Ax. Ratio

Side Lobes

	No.	Ampl	Deg	
				▲
				▼

Ampl. Color

Visible Section

Amplitude [dB]

Phase [deg]

	Not Aligned
No Skirt	Not Normalized
Not Rotated	Phase wrapped
Ends Not Connected	Log. Display

Null Depth [dB]		Avg	Dir	Eff A	GainA	
Value	[deg]	dB	dBi	%	dBi	▲
		6.72	0.00	0.00	24.70	
		7.12	0.00	0.00	25.09	
		7.30	0.00	0.00	25.25	☰
		6.77	0.00	0.00	24.73	
		6.76	0.00	0.00	24.72	▼