No Boundary! No Limitation!
The Most Appropriate Antenna for Your Best Design!

3-10GHz UWB Report @ 60mm, 120mm, 150mm



Prepared by Wireless Division May, 2008

1.Frequency: 3~10GHz

2.PHOTO

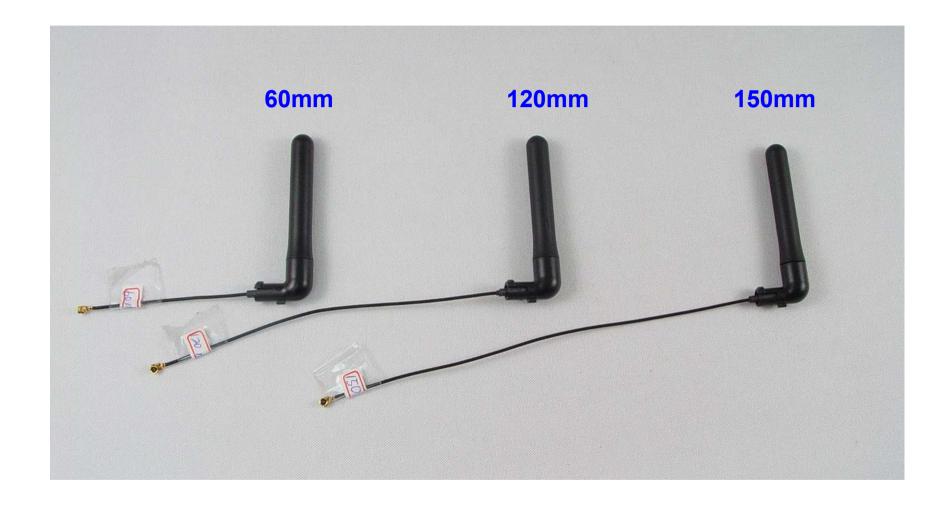
3.RL / VSWR

4.Radiation Pattern Elevation Gain Plot

5.Peak / avg. gain

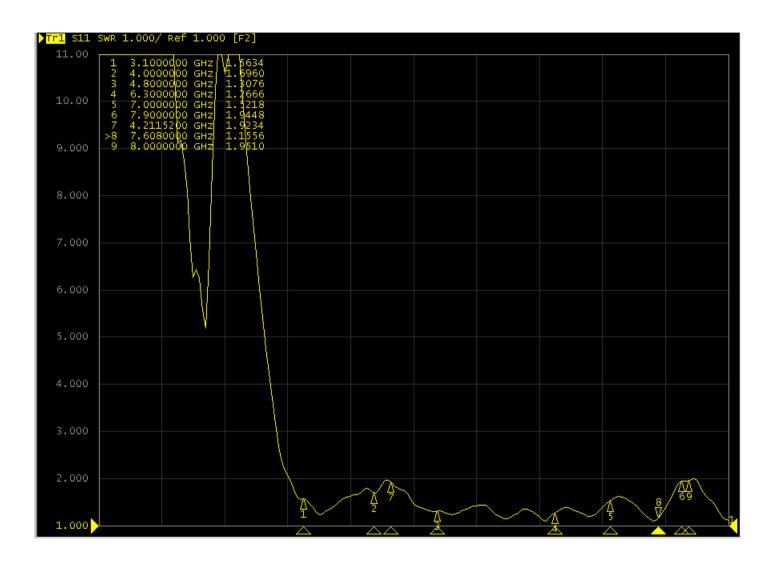


Antenna Photo





VSWR _ 60mm



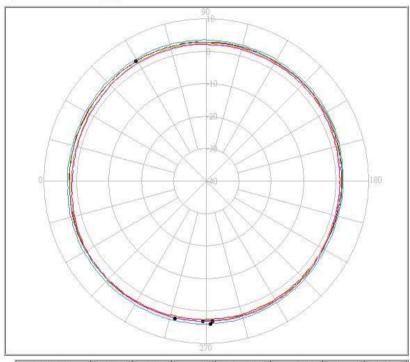


Radiation Pattern Elevation Gain Plot (Hor.)_(1/3)

60mm



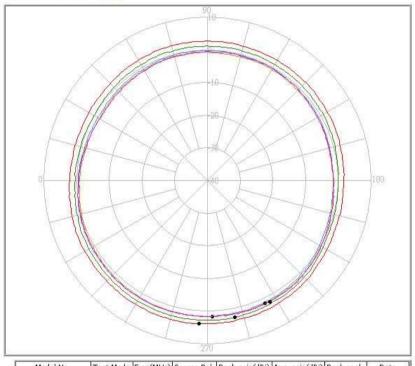
Antenna Pattern & EIRP Measurement



Model No.	Test Mode	Freq(MHz)	Source Pol.	Peak gain(dBi)	Avg. gain(dBi)	Peak angle	Date
970508_UWB_60	Н	3100	Ver.	2.81	2.33	59.56	2008/5/9
970508_UWB_60	Н	3200	Ver.	3.14	2.53	271.30	2008/5/9
970508_UWB_60	Н	3300	Ver.	3.97	3.13	268.36	2008/5/9
970508_UWB_60	Н	3400	Ver.	3.13	2.11	267.35	2008/5/9
970508_UWB_60	Н	3500	Ver.	3.30	2.07	282.95	2008/5/9

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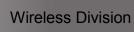
Antenna Pattern & EIRP Measurement



	Model No.	Test Mode	Freq(MHz)	Source Pol.	Peak gain(dBi)	Avg. gain(dBi)	Peak angle	Date
	970508_UWB_60	Н	3600	Ver.	3.95	2.71	273.28	2008/5/9
1	970508_UWB_60	H	3700	Ver.	2.77	1.30	258.63	2008/5/9
1	970508_UWB_60	H	3800	Ver.	1.58	0.02	268.00	2008/5/9
	970508_UWB_60	Н	3900	Ver.	1.57	-0.14	244.85	2008/5/9
ď	970508_UWB_60	Н	4000	Ver.	1.72	0.01	242.64	2008/5/9

3100~3500MHz

3600~4000MHz

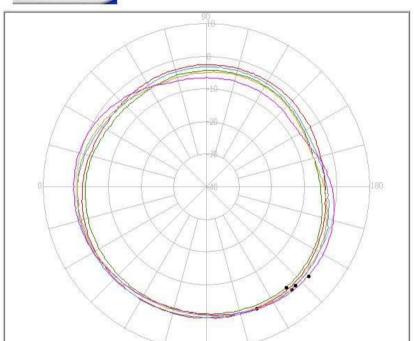




Radiation Pattern Elevation Gain Plot (Hor.)_(2/3)



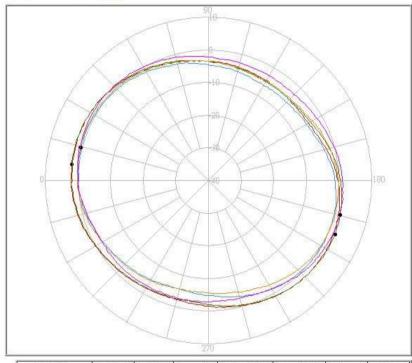
Antenna Pattern & EIRP Measurement



Model No.	Test Mode	Freq(MHz)	Source Pol.	Peak gain(dBi)	Avg. gain(dBi)	Peak angle	Date
970508_UWB_60	Н	4100	Ver.	0.39	-1.64	247.50	2008/5/9
970508_UWB_60	Н	4200	Ver.	-0.62	-2.98	231.71	2008/5/9
970508_UWB_60	Н	4300	Ver.	0.88	-1.41	230.29	2008/5/9
970508_UWB_60	Н	4400	Ver.	0.70	-1.93	228.13	2008/5/9
970508_UWB_60	Н	4500	Ver.	1.53	-1.37	221.24	2008/5/9



Antenna Pattern & EIRP Measurement



Model No.	Test Mode	Freq(MHz)	Source Pol.	Peak gain(dBi)	Avg. gain(dBi)	Peak angle	Date
970508_UWB_60	Н	4600	Ver.	2.17	-0.37	6.59	2008/5/9
970508_UWB_60	Н	4700	Ver.	2.14	-0.32	203.08	2008/5/9
970508_UWB_60	Н	4800	Ver.	0.29	-2.20	14.51	2008/5/9
970508_UWB_60	Н	4900	Ver.	0.59	-1.90	14.51	2008/5/9
970508_UWB_60	Н	5200	Ver.	1.67	-0.80	194.56	2008/5/9

4100~4500MHz

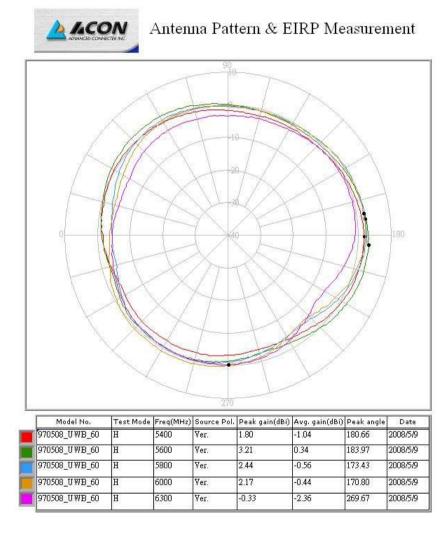
4600~5200MHz





Radiation Pattern Elevation Gain Plot (Hor.)_(3/3)

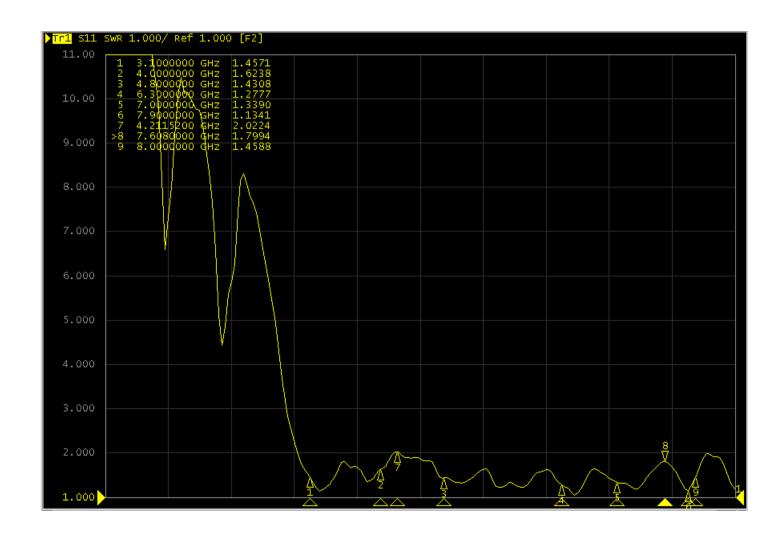
60mm



5400~6300MHz



VSWR _ 120mm





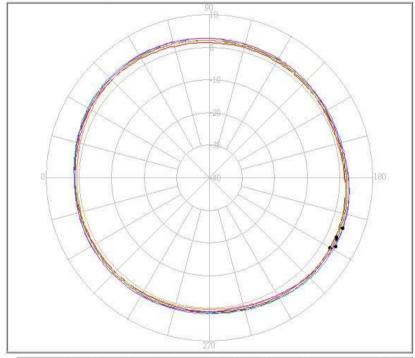
Wireless Division

Radiation Pattern Elevation Gain Plot (Hor.)_(1/3)

120mm



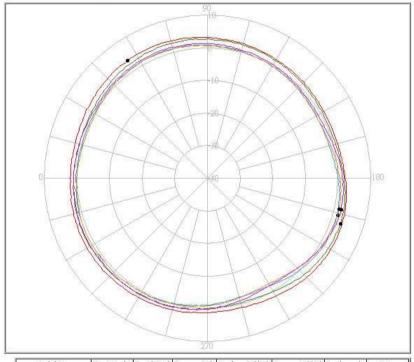
Antenna Pattern & EIRP Measurement



Model No.	Test Mode	Freq(MHz)	Source Pol.	Peak gain(dBi)	Avg. gain(dBi)	Peak angle	Date
970508_UWB_120	Н	3100	Ver.	2.81	1.54	210.22	2008/5/8
970508_UWB_120	Н	3200	Ver.	3.31	2.01	205.90	2008/5/8
970508_UWB_120	Н	3300	Ver.	3.97	2.43	208.56	2008/5/8
970508_UWB_120	Н	3400	Ver.	2.97	1.47	205.15	2008/5/8
970508_UWB_120	Н	3500	Ver.	3.63	2.12	200.59	2008/5/8

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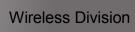
Antenna Pattern & EIRP Measurement



Model No.	Test Mode	Freq(MHz)	Source Pol.	Peak gain(dBi)	Avg. gain(dBi)	Peak angle	Date
970508_UWB_120	Н	3600	Ver.	3.61	2.40	55.88	2008/5/8
970508_UWB_120	H	3700	Ver.	3.10	1.48	198.98	2008/5/8
970508_UWB_120	Н	3800	Ver.	1.42	0.04	195.88	2008/5/8
970508_UWB_120	Н	3900	Ver.	1.41	-0.08	193.24	2008/5/8
970508_UWB_120	Н	4000	Ver.	2.05	0.62	193.14	2008/5/8

3100~3500MHz

3600~4000MHz



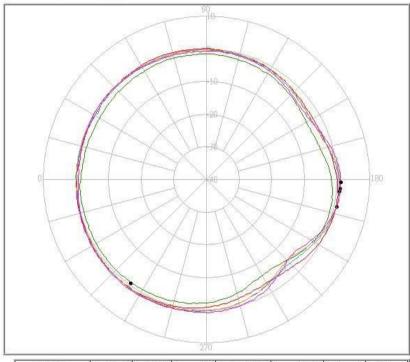


Radiation Pattern Elevation Gain Plot (Hor.)_(2/3)

120mm



Antenna Pattern & EIRP Measurement

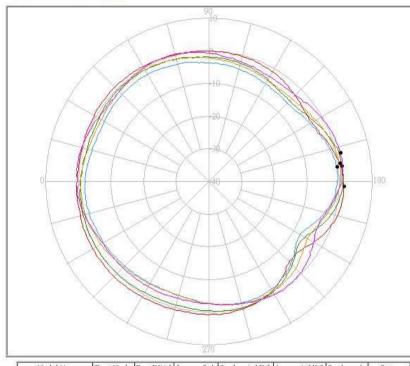


Model No.	Test Mode	Freq(MHz)	Source Pol.	Peak gain(dBi)	Avg. gain(dBi)	Peak angle	Date
970508_UWB_120	Н	4100	Ver.	0.72	-0.53	191.91	2008/5/8
970508_UWB_120	Н	4200	Ver.	-0.79	-2.18	306.13	2008/5/8
970508_UWB_120	Н	4300	Ver.	0.88	-0.55	185.26	2008/5/8
970508_UWB_120	Н	4400	Ver.	1.03	-0.54	183.94	2008/5/8
970508_UWB_120	Н	4500	Ver.	1.20	-0.52	181.32	2008/5/8

4100~4500MHz

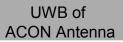


Antenna Pattern & EIRP Measurement



Model No.	Test Mode	Freq(MHz)	Source Pol.	Peak gain(dBi)	Avg. gain(dBi)	Peak angle	Date
970508_UWB_120	Н	4600	Ver.	1.34	-0.09	181.99	2008/5/8
970508_UWB_120	Н	4700	Ver.	1.14	-1.17	173.43	2008/5/8
970508_UWB_120	Н	4800	Ver.	-0.55	-3.06	173.43	2008/5/8
970508_UWB_120	Н	4900	Ver.	0.42	-1.96	172.06	2008/5/8
970508_UWB_120	Н	5200	Ver.	1.34	-1.03	167.56	2008/5/8

4600~5200MHz

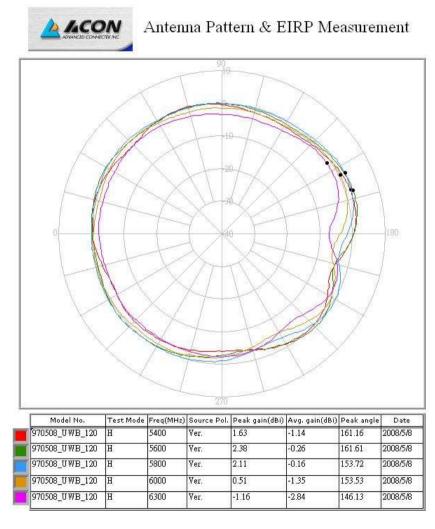






Radiation Pattern Elevation Gain Plot (Hor.)_(3/3)

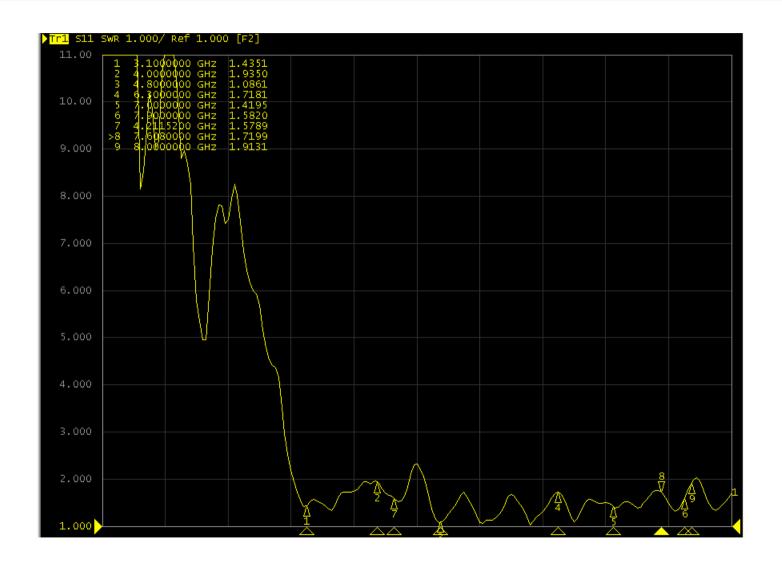
120mm



5400~6300MHz



VSWR _ 150mm



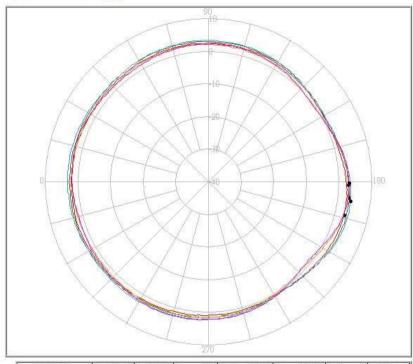


Radiation Pattern Elevation Gain Plot (Hor.)_(1/3)

150mm



Antenna Pattern & EIRP Measurement

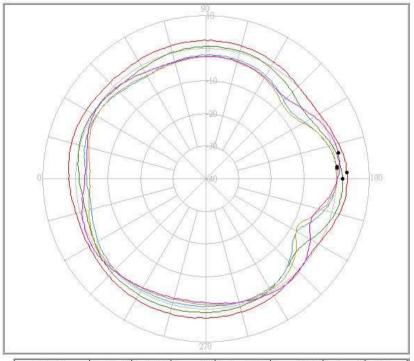


Model No.	Test Mode	Freq(MHz)	Source Pol.	Peak gain(dBi)	Avg. gain(dBi)	Peak angle	Date
970508_UWB_150	Н	3100	Ver.	2.81	1.65	193.85	2008/5/8
970508_UWB_150	Н	3200	Ver.	3.48	2.15	186.57	2008/5/8
970508_UWB_150	Н	3300	Ver.	3.97	2.49	187.88	2008/5/8
970508_UWB_150	Н	3400	Ver.	2.97	1.35	181.32	2008/5/8
970508_UWB_150	Н	3500	Ver.	3.13	1.53	180.66	2008/5/8

3100~3500MHz

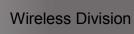


Antenna Pattern & EIRP Measurement



Model No.	Test Mode	Freq(MHz)	Source Pol.	Peak gain(dBi)	Avg. gain(dBi)	Peak angle	Date
970508_UWB_150	Н	3600	Ver.	3.28	1.83	177.37	2008/5/8
970508_UWB_150	Н	3700	Ver.	1.94	-0.26	180.00	2008/5/8
970508_UWB_150	Н	3800	Ver.	0.25	-2.16	175.38	2008/5/8
970508_UWB_150	Н	3900	Ver.	0.24	-2.33	174.71	2008/5/8
970508_UWB_150	Н	4000	Ver.	1.39	-1.40	168.79	2008/5/8

3600~4000MHz



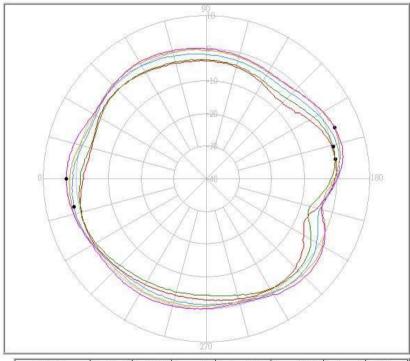


Radiation Pattern Elevation Gain Plot (Hor.)_(2/3)

150mm



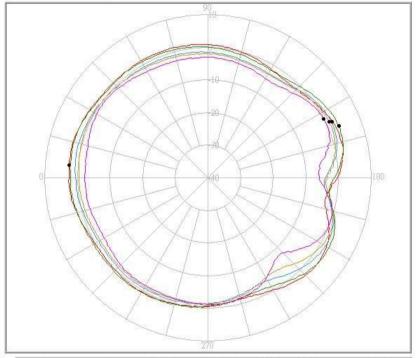
Antenna Pattern & EIRP Measurement



Model No.	Test Mode	Freq(MHz)	Source Pol.	Peak gain(dBi)	Avg. gain(dBi)	Peak angle	Date
970508_UWB_150	Н	4100	Ver.	0.05	-2.46	171.37	2008/5/8
970508_UWB_150	Н	4200	Ver.	0.04	-2.44	165.76	2008/5/8
970508_UWB_150	Н	4300	Ver.	1.54	-0.65	348.13	2008/5/8
970508_UWB_150	Н	4400	Ver.	2.20	0.06	158.24	2008/5/8
970508_UWB_150	Н	4500	Ver.	2.87	0.68	0.00	2008/5/8

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Antenna Pattern & EIRP Measurement



Model No.	Test Mode	Freq(MHz)	Source Pol.	Peak gain(dBi)	Avg. gain(dBi)	Peak angle	Date
970508_UWB_150	Н	4600	Ver.	2.67	0.69	5.20	2008/5/8
970508_UWB_150	Н	4700	Ver.	3.14	0.77	158.40	2008/5/8
970508_UWB_150	Н	4800	Ver.	1.62	-0.71	155.60	2008/5/8
970508_UWB_150	Н	4900	Ver.	0.92	-1.25	155.22	2008/5/8
970508_UWB_150	Н	5200	Ver.	-0.16	-2.36	152.97	2008/5/8

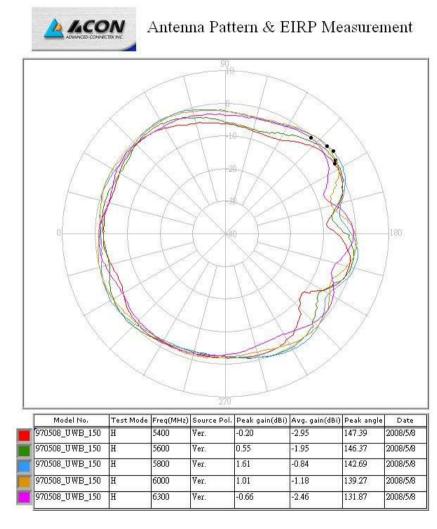
4100~4500MHz

4600~5200MHz



Radiation Pattern Elevation Gain Plot (Hor.)_(3/3)

150mm



5400~6300MHz

Peak Gain & Avg Gain

	60mm		120mm		150mm	
Frequency (GHz)	Peak Gain (dBi)	Avg. Gain (dBi)	Peak Gain (dBi)	Avg. Gain (dBi)	Peak Gain (dBi)	Avg. Gain (dBi)
3100	2.81	2.33	2.81	1.54	2.81	1.65
3200	3.14	2.53	3.31	2.01	3.48	2.15
3300	3.97	3.13	3.97	2.43	3.97	2.49
3400	3.13	2.11	2.97	1.47	2.97	1.35
3500	3.3	2.07	3.63	2.12	3.13	1.53
3600	3.95	2.71	3.61	2.4	3.28	1.83
3700	2.77	1.3	3.1	1.48	1.94	-0.26
3800	1.58	0.02	1.42	0.04	0.25	-2.16
3900	1.57	-0.14	1.41	-0.08	0.24	-2.33
4000	1.72	0.01	2.05	0.62	1.39	-1.4
4100	0.39	-1.64	0.72	-0.53	0.05	-2.46
4200	-0.62	-2.98	-0.79	-2.18	0.04	-2.44
4300	0.88	-1.41	0.88	-0.55	1.54	-0.65
4400	0.7	-1.93	1.03	-0.54	2.2	0.06
4500	1.53	-1.37	1.2	-0.52	2.87	0.68
4600	2.17	-0.37	1.34	-0.09	2.67	5.2
4700	2.14	-0.32	1.14	-1.17	3.14	0.77
4800	0.29	-2.2	-0.55	-3.06	1.62	-0.71
4900	0.59	-1.9	0.42	-1.96	0.92	-1.25
5200	1.67	-0.8	1.34	-1.03	-0.16	-2.36
5400	1.8	-1.04	1.63	-1.14	-0.2	-2.95
5600	3.21	0.34	2.38	-0.26	0.55	-1.95
5800	2.44	-0.56	2.11	-0.16	1.61	-0.84
6000	2.17	-0.44	0.51	-1.35	1.01	-1.18
6300	-0.33	-2.36	-1.16	-2.84	-0.66	-2.46