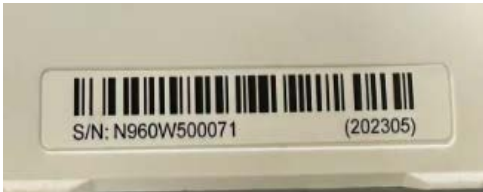


address: Room 308, Block B, Sibiono Gene Therapy Park, NO. 19, 1st Science &Technology Middle Road, Hi-Tech Industry Park(Middle), Nanshan District, Shenzhen,China

company: Shenzhen Bogesi Communication Technology Co.,Ltd

ANT: model:XGD-195F model:XGD-195G model:XGD-195E model:XGD-195D

Antenna test data for two trial production machines (Latin American version)



Machine image:



Band	Channel	TRP	TIS
LTE1 (10M)	Low	18.85	-93.45
	Mid	18.97	-93.28
	High	19.17	-93.47
LTE2 (10M)	Low	19.39	-92.45
	Mid	19.71	-92.16
	High	19.25	-92.74
LTE3 (10M)	Low	18.15	-90.41
	Mid	18.54	-91.24
	High	19.48	-91.89
LTE4 (10M)	Low	18.24	-92.45
	Mid	18.19	-93.54
	High	19.13	-93.29
LTE5 (10M)	Low	18.49	-90.45
	Mid	18.35	-90.32
	High	18.68	-90.47
LTE7 (10M)	Low	19.27	-90.33
	Mid	20.04	-90.24
	High	19.43	-90.21
LTE8 (10M)	Low	18.16	-90.57
	Mid	18.39	-90.44
	High	18.02	-90.67
LTE28 (10M)	Low	17.16	-90.31
	Mid	17.79	-90.25
	High	17.28	-90.16
LTE38 (20M)	Low	19.67	-90.02
	Mid	19.52	-90.22
	High	19.34	-90.24

Band	Channel	TRP	TIS
LTE1 (10M)	Low	18.8	-93.69
	Mid	19.03	-93.14
	High	18.96	-93.66
LTE2 (10M)	Low	19.54	-92.44
	Mid	19.68	-92.01
	High	18.82	-92.3
LTE3 (10M)	Low	17.86	-90.45
	Mid	18.2	-90.98
	High	19.54	-91.77
LTE4 (10M)	Low	18.64	-92.28
	Mid	18.27	-93.66
	High	19.36	-93.32
LTE5 (10M)	Low	18.32	-90.74
	Mid	18.59	-90.13
	High	18.52	-90.28
LTE7 (10M)	Low	19.54	-90.54
	Mid	19.98	-90.33
	High	19.12	-90.27
LTE8 (10M)	Low	18.24	-90.11
	Mid	18.36	-90.52
	High	18.33	-90.36
LTE28 (10M)	Low	17.33	-90.34
	Mid	17.85	-90.22
	High	17.52	-90.15
LTE38 (20M)	Low	19.58	-90.32
	Mid	19.51	-90.11
	High	19.37	-90.14

WIFI antenna test data:

Band	Channel	TRP	TIS
		11g/6M	11g/54M
2.4G	1	12.21	-67.45
	6	12.14	-67.62
	11	12.56	-67.41
		11a/6M	11a/54M
5G	36	11.07	-66.89
	149	10.87	-67.74
	153	11.52	-67.45

WIFI antenna test data:

Band	Channel	TRP	TIS
		11g/6M	11g/54M
2.4G	1	12.21	-67.62
	6	12.86	-67.19
	11	12.27	-67.35
		11a/6M	11a/54M
5G	36	10.78	-67.65
	149	10.94	-67.28
	153	11.4	-67.62

BT antenna test data:

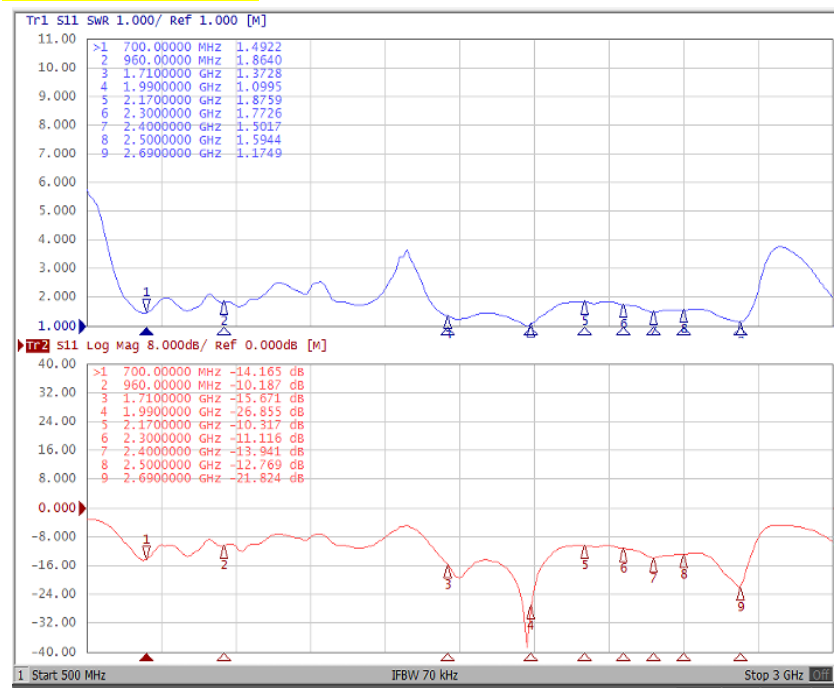
Band	Channel	TRP	TIS
2.4G	0	6.33	-85.59
	39	6.75	-85.72
	78	5.77	-85.7

Antenna Passive Test Data Report

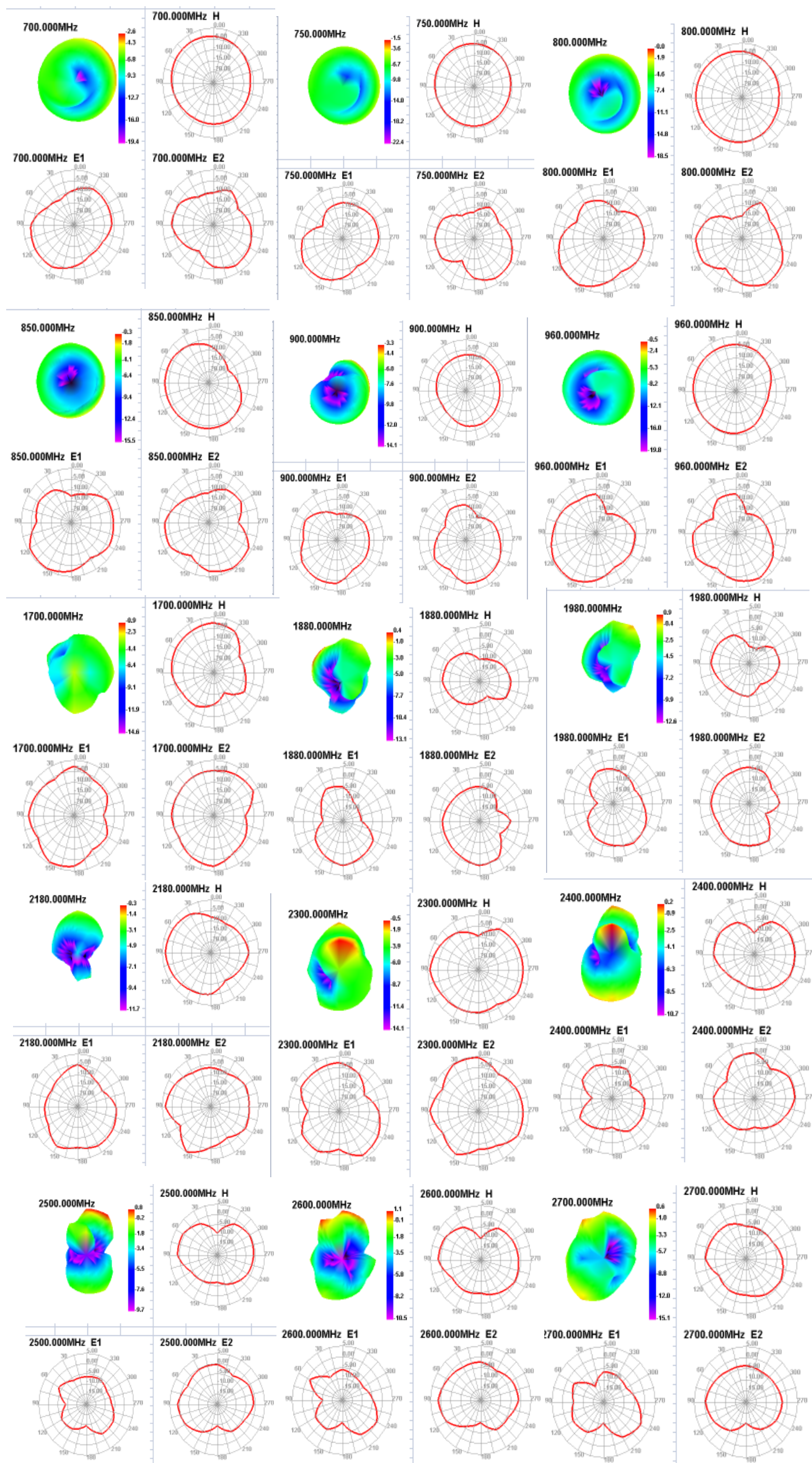
Passive test data of the main antenna

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
700	24.09	-2.59	1700	30.34	-0.94	2240	31.75	-0.66
710	23.94	-2.52	1720	32.28	-1.32	2260	33.9	-0.95
720	23.18	-2.29	1740	33.3	-1.55	2280	35.43	-1.48
730	25.03	-1.67	1760	36.42	-0.68	2300	37.44	-0.54
740	23.37	-1.86	1780	39.89	0.65	2320	40.83	0.09
750	26.24	-1.47	1800	36.17	0.65	2340	40.08	-0.2
760	26.63	-1.64	1820	36.26	0.31	2360	42.97	-0.12
770	29.27	-1.38	1840	38.7	0.4	2380	44.19	0.07
780	29.8	-0.92	1860	38.68	0.56	2400	46.12	0.2
790	34.91	-0.12	1880	37.79	0.35	2420	46.05	0.06
800	36	0	1900	39.09	0.13	2440	46.09	0.21
810	41.27	0.52	1920	42.44	0.24	2460	47.09	0.4
820	36.94	-0.02	1940	44.68	0.5	2480	46.32	0.5
830	34.45	-0.37	1960	44.64	0.7	2500	46.84	0.81
840	35.01	-0.33	1980	43.77	0.91	2520	45.91	0.9
850	35.74	-0.27	2000	41.15	0.95	2540	44.27	0.82
860	36.15	-0.41	2020	38.35	0.48	2560	45.05	0.89
870	30.82	-1.26	2040	33.58	-0.14	2580	47.42	0.98
880	28.14	-1.7	2060	35.5	0.56	2600	49.52	1.1
890	23.35	-2.52	2080	34.06	0.43	2620	48.35	1.02
900	20.14	-3.28	2100	34.09	0.42	2640	48.81	0.99
910	17.7	-3.65	2120	32.85	0.25	2660	50.49	1.16
920	21.85	-2.3	2140	31.16	-0.09	2680	46.09	0.92
930	25.02	-1.57	2160	27.97	-0.47	2700	43.17	0.58
940	32.34	-0.44	2180	28.06	-0.3			
950	29.59	-0.69	2200	29.96	0.06			
960	29.81	-0.49	2220	31.62	-0.12			

S11



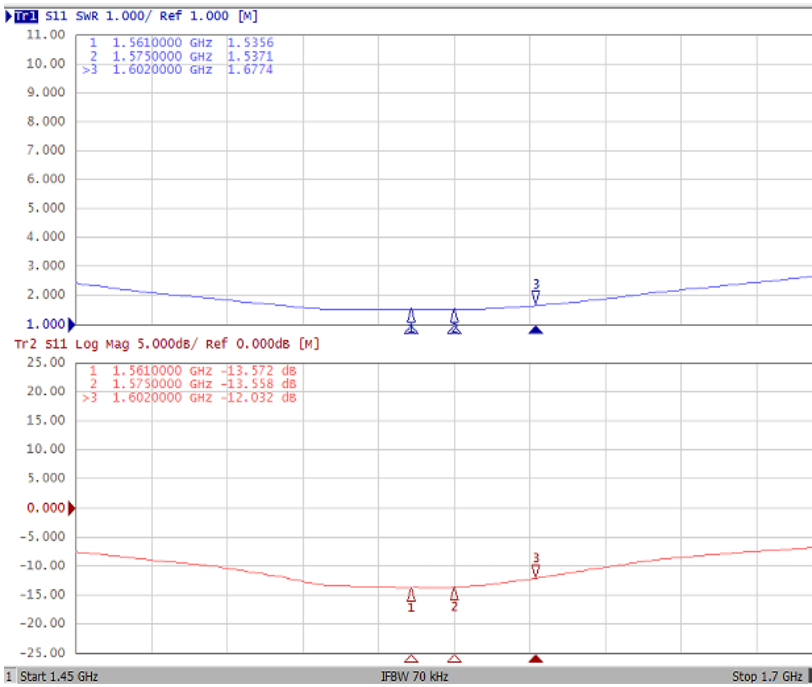
Directional pattern



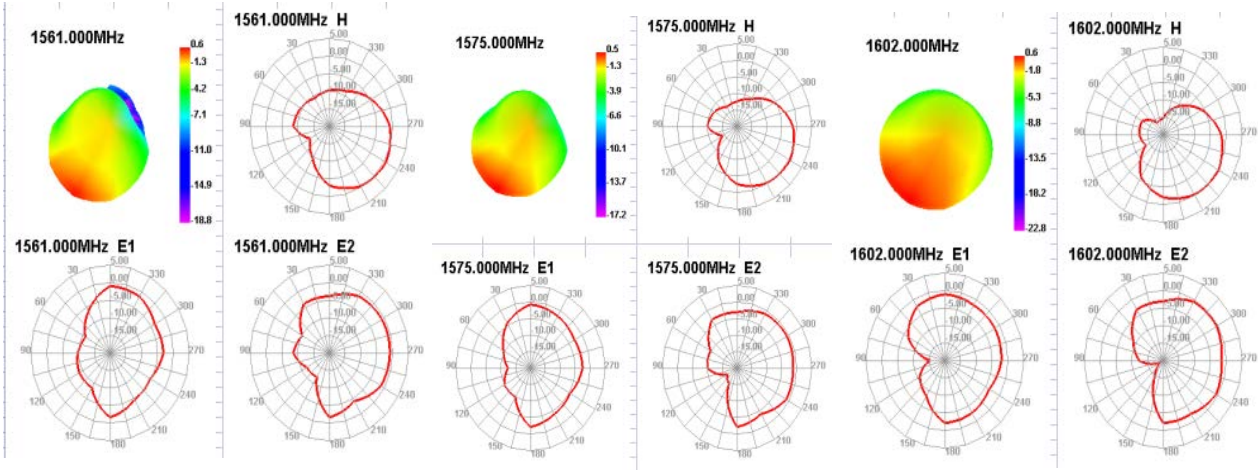
Passive test data of GNSS antenna

Freq (MHz)	Effi (%)	Gain (dBi)
1560	38.52	0.61
1561	39.84	0.62
1562	40.15	0.65
1563	40.49	0.67
1564	40.77	0.68
1565	41.07	0.71
1566	41.43	0.73
1567	41.78	0.76
1568	42.15	0.79
1569	42.48	0.82
1570	42.76	0.83
1571	42.52	0.77
1572	42.18	0.73
1573	41.76	0.65
1574	41.26	0.56
1575	40.75	0.5
1576	40.28	0.41
1577	39.89	0.35
1578	39.64	0.32
1579	39.58	0.28
1580	39.71	0.29
1581	40.5	0.36
1582	41.43	0.45
1583	42.39	0.53
1584	43.37	0.64
1585	44.22	0.73
1586	43.84	0.76
1587	45.24	0.81
1588	44.35	0.8
1589	40.39	0.77
1590	40.35	0.76
1591	44.81	0.68
1592	44.37	0.62
1593	43.99	0.56
1594	43.75	0.54
1595	43.59	0.48
1596	43.43	0.46
1597	43.31	0.43
1598	43.19	0.41
1599	43.13	0.38
1600	43.18	0.39
1601	44.07	0.48
1602	45.13	0.59
1603	46.3	0.7
1604	46.56	0.81
1605	47.76	0.94

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Directional pattern

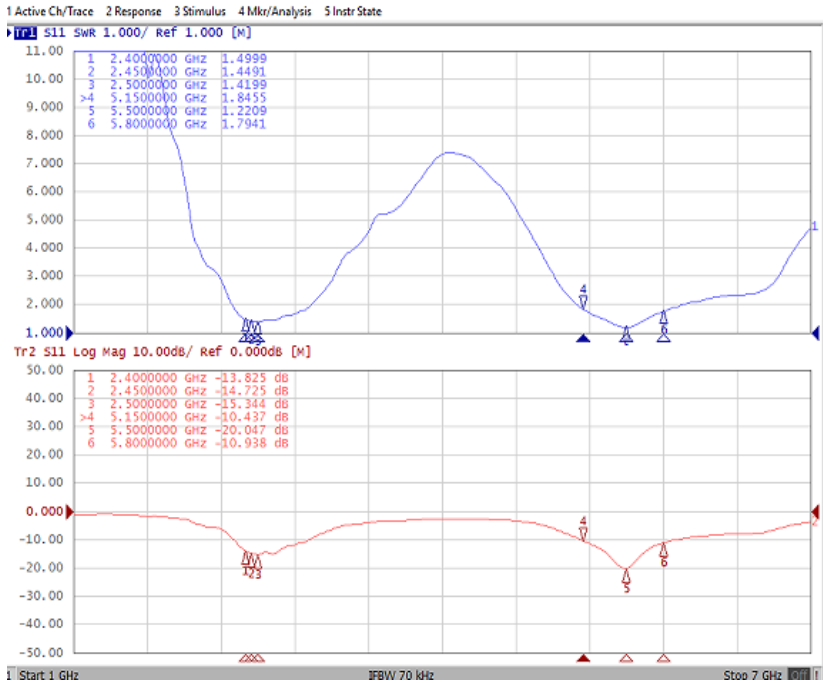


WIFI antenna passive test data

Freq (MHz)	Effi (%)	Gain (dBi)
2400	42.13	4.28
2410	44.12	4.55
2420	42.82	4.25
2430	43.05	4.43
2440	41.65	3.82
2450	42.42	4.01
2460	41.76	3.8
2470	43.38	4.22
2480	42.85	3.99
2490	44.41	4.37
2500	42.4	4.16

5100	44.95	3.89
5120	47.02	4.37
5140	43.01	3.77
5160	43.6	3.68
5180	42.14	3.6

S11



5200	48.22	4
5220	46.3	3.72
5240	45.67	3.32
5260	43.54	3.03
5280	46.63	3.6
5300	45.62	3.63
5320	45.27	2.99
5340	45.15	3.08
5360	47.71	3.26
5380	46.3	3.22
5400	46.46	2.74
5420	48.62	2.47
5440	47.85	2.03
5460	46.21	1.88
5480	45.06	1.53
5500	46.88	1.64
5520	48.58	2.01
5540	54.04	2.62
5560	55.16	2.93
5580	57.31	3.23
5600	57.2	3.47
5640	54.4	2.82
5660	52.77	2.77
5680	53.53	2.67
5700	52.45	2.43
5720	54.04	2.58
5740	51.34	2.41
5760	50.31	2.43
5780	48.87	2.06
5800	50.77	2.21

