Final

EIRP Spectral Density

Model Name: Intellian v100NX

Test Date: Dec, 2019

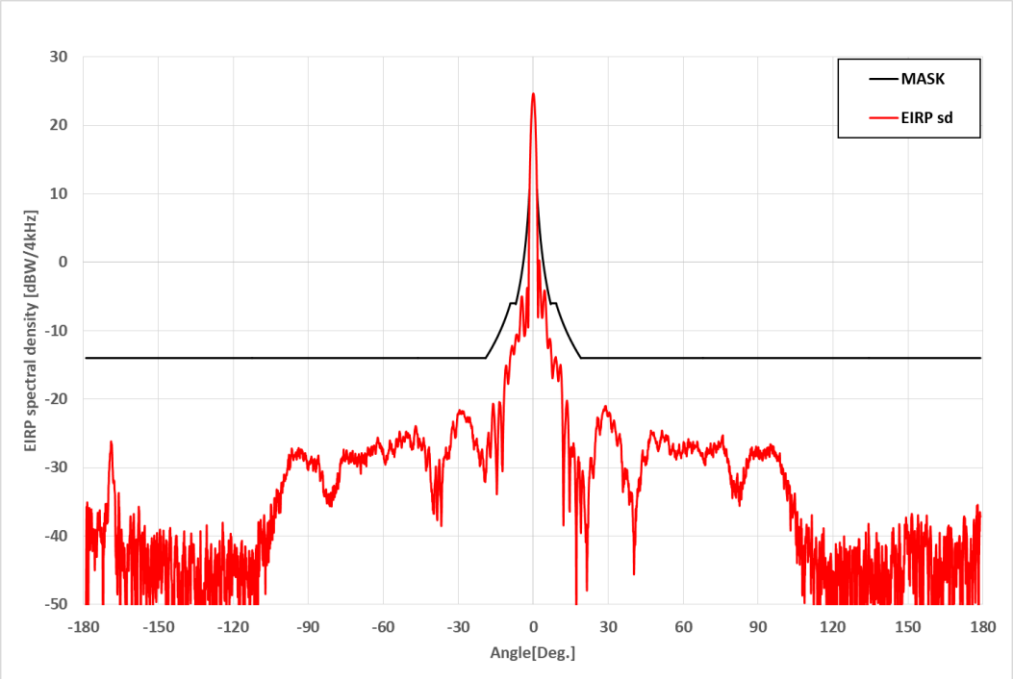
Prepared by

RF Engineering Department
Intellian Technologies, Inc.

Contents

1. EIRP Spectral Density of v100NX

1.1. Azimuth Pattern for Co-pol, Wide Angle (-180° ~ 180°)



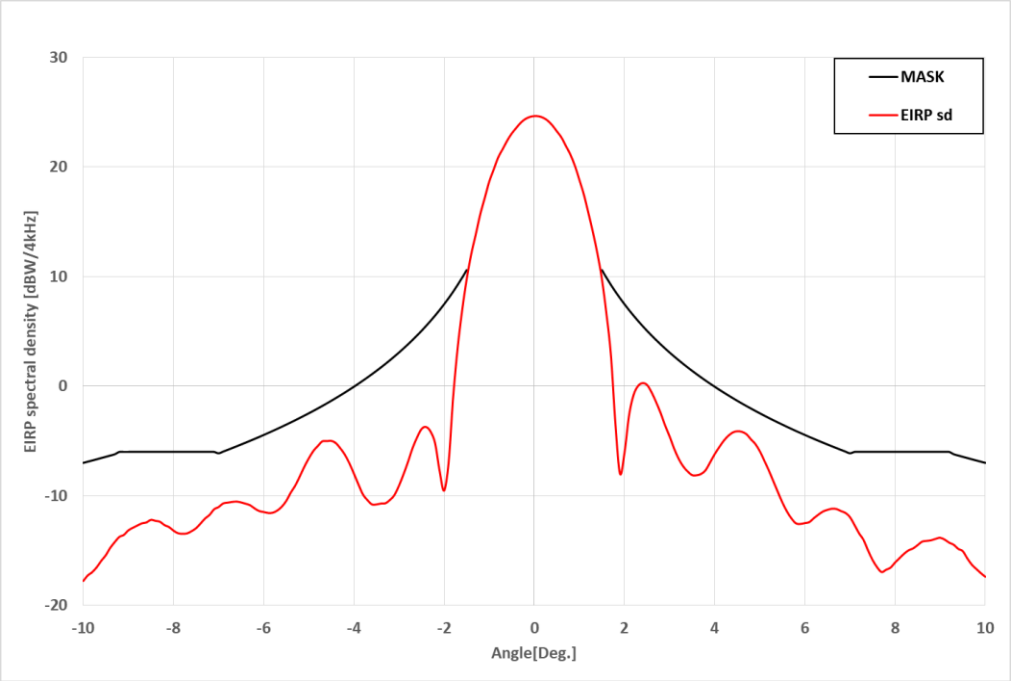
-16.95dBW/4kHz Input power spectral density @ f=14.25GHz

- **FCC EIRP spectral density regulation**

15-25log(θ)	dBW/4kHz	for	1.5˚ ≤ θ ≤ 7.0˚
-6	dBW/4kHz	for	7.0˚ < θ ≤ 9.2˚
18-25log(θ)	dBW/4kHz	for	9.2˚ < θ ≤ 19.1˚
-14	dBW/4kHz	for	19.1˚ < θ ≤ 180˚

The v100NX's Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -16.95 dBW/ 4kHz

1.2. Azimuth Pattern for Co-pol, Narrow Angle (-10°~10°)



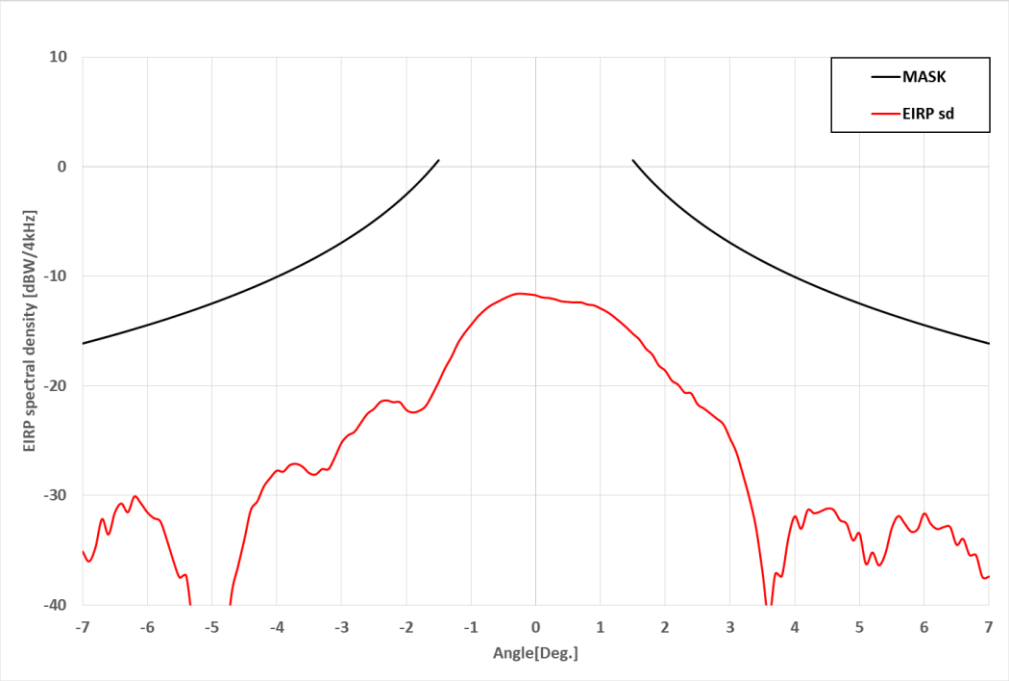
-16.95dBW/4kHz Input power spectral density @ f=14.25GHz

- **FCC EIRP spectral density regulation**

15-25log(θ)	dBW/4kHz	for	1.5˚ ≤ θ ≤ 7.0˚
-6	dBW/4kHz	for	7.0˚ < θ ≤ 9.2˚
18-25log(θ)	dBW/4kHz	for	9.2˚ < θ ≤ 19.1˚
-14	dBW/4kHz	for	19.1˚ < θ ≤ 180˚

The v100NX's Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -16.95 dBW/ 4kHz

1.3. Azimuth Pattern for Cross-pol, Narrow angle (-7°~7°)



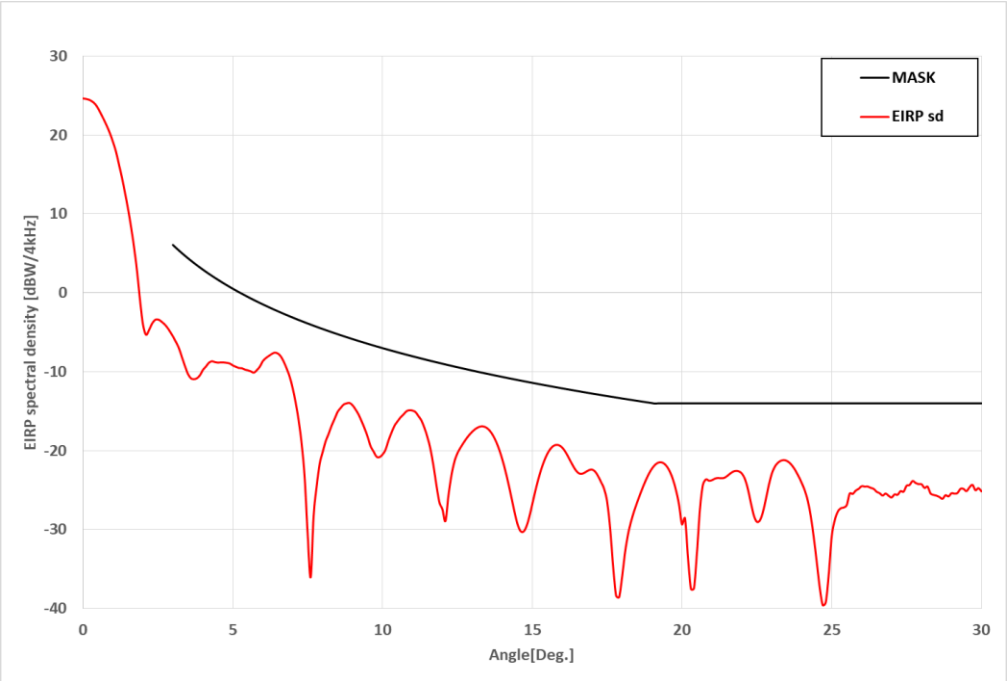
-16.95dBW/4kHz Input power spectral density @ f=14.25GHz

- **FCC EIRP spectral density regulation**

5-25log(θ)	dBW/4kHz	for	1.5˚ ≤ θ ≤ 7.0˚

The v100NX's Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -16.95 dBW/ 4kHz

1.4. Elevation Pattern for Co-pol, Narrow Angle (0°~30°)



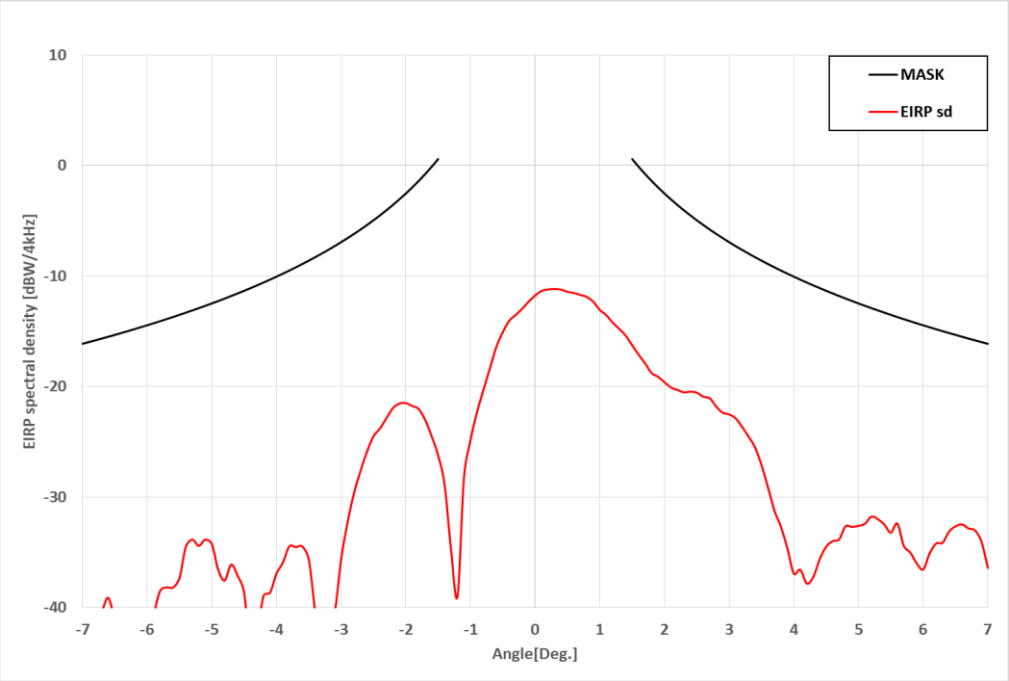
-16.95dBW/4kHz Input power spectral density @ f=14.25GHz

- **FCC EIRP spectral density regulation**

18-25log(θ)	dBW/4kHz	for	3.0˚ ≤ θ ≤ 19.1˚
-14	dBW/4kHz	for	19.1˚ < θ ≤ 180˚

The v100NX's Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -16.95 dBW/ 4kHz

1.5. Elevation Pattern for Cross-pol, Narrow angle (-7°~7°)



-16.95dBW/4kHz Input power spectral density @ f=14.25GHz

- **FCC EIRP spectral density regulation**

5-25log(θ)	dBW/4kHz	for	1.5˚ ≤ θ ≤ 7.0˚

The v100NX's Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -16.95 dBW/ 4kHz

2. EIRP Spectral Density Data

2.1. Azimuth Pattern for Co-pol (-180°~180°)

F=14.25GHz, -16.95dBW/4KHz EIRP sd		
-179	-50.150	-14.000
-178	-43.503	-14.000
-177	-38.849	-14.000
-176	-38.974	-14.000
-175	-40.743	-14.000
-174	-39.033	-14.000
-173	-40.311	-14.000
-172	-43.170	-14.000
-171	-35.416	-14.000
-170	-32.664	-14.000
-169	-26.182	-14.000
-168	-31.759	-14.000
-167	-43.344	-14.000
-166	-34.384	-14.000
-165	-43.432	-14.000
-164	-43.029	-14.000
-163	-49.173	-14.000
-162	-43.767	-14.000
-161	-40.683	-14.000
-160	-38.554	-14.000
-159	-40.738	-14.000
-158	-37.866	-14.000
-157	-51.458	-14.000
-156	-48.480	-14.000
-155	-41.829	-14.000
-154	-45.475	-14.000
-153	-41.458	-14.000
-152	-46.443	-14.000
-151	-48.110	-14.000
-150	-43.953	-14.000
-149	-40.138	-14.000
-148	-39.202	-14.000
-147	-53.691	-14.000
-146	-50.147	-14.000
-145	-40.200	-14.000
-144	-47.094	-14.000
-143	-40.067	-14.000
-142	-49.379	-14.000
-141	-46.521	-14.000
-140	-41.026	-14.000
-139	-48.979	-14.000
-138	-45.680	-14.000
-137	-41.539	-14.000
-136	-43.505	-14.000
-135	-48.154	-14.000
-134	-46.326	-14.000
-133	-50.445	-14.000
-132	-51.675	-14.000
-131	-41.846	-14.000
-130	-49.222	-14.000
-129	-41.649	-14.000
-128	-48.351	-14.000
-127	-44.624	-14.000
-126	-45.493	-14.000
-125	-64.746	-14.000
-124	-41.996	-14.000
-123	-46.476	-14.000
-122	-44.195	-14.000
-121	-44.483	-14.000
-120	-42.678	-14.000
-119	-45.378	-14.000
-118	-46.894	-14.000
-117	-43.588	-14.000
-116	-55.528	-14.000
-115	-45.208	-14.000
-114	-48.962	-14.000
-113	-45.205	-14.000
-112	-47.513	-14.000
-111	-41.844	-14.000
-110	-38.026	-14.000
-109	-39.797	-14.000
-108	-41.885	-14.000
-107	-40.520	-14.000
-106	-41.986	-14.000
-105	-35.403	-14.000
-104	-38.223	-14.000
-103	-35.979	-14.000
-102	-34.093	-14.000
-101	-33.632	-14.000
-100	-32.155	-14.000
-99	-31.078	-14.000
-98	-28.842	-14.000
-97	-28.352	-14.000
-96	-28.918	-14.000
-95	-27.772	-14.000
-94	-27.738	-14.000
-93	-27.425	-14.000
-92	-28.503	-14.000
-91	-28.218	-14.000
-90	-30.170	-14.000
-89	-28.643	-14.000
-88	-29.257	-14.000
-87	-30.613	-14.000
-86	-28.237	-14.000
-85	-31.324	-14.000
-84	-33.646	-14.000
-83	-33.855	-14.000
-82	-33.853	-14.000
-81	-33.671	-14.000
-80	-34.713	-14.000

-79	-33.456	-14.000
-78	-32.316	-14.000
-77	-28.908	-14.000
-76	-28.454	-14.000
-75	-28.806	-14.000
-74	-28.869	-14.000
-73	-29.107	-14.000
-72	-29.086	-14.000
-71	-28.458	-14.000
-70	-28.822	-14.000
-69	-30.873	-14.000
-68	-28.697	-14.000
-67	-28.320	-14.000
-66	-27.228	-14.000
-65	-27.985	-14.000
-64	-27.348	-14.000
-63	-27.748	-14.000
-62	-26.047	-14.000
-61	-26.758	-14.000
-60	-27.969	-14.000
-59	-28.875	-14.000
-58	-27.959	-14.000
-57	-26.909	-14.000
-56	-27.351	-14.000
-55	-26.525	-14.000
-54	-26.736	-14.000
-53	-26.217	-14.000
-52	-25.488	-14.000
-51	-24.788	-14.000
-50	-25.659	-14.000
-49	-26.114	-14.000
-48	-26.402	-14.000
-47	-24.006	-14.000
-46	-27.101	-14.000
-45	-26.920	-14.000
-44	-26.528	-14.000
-43	-29.636	-14.000
-42	-27.415	-14.000
-41	-32.206	-14.000
-40	-36.343	-14.000
-39	-29.846	-14.000
-38	-32.044	-14.000
-37	-35.123	-14.000
-36	-29.904	-14.000
-35	-27.263	-14.000
-34	-28.391	-14.000
-33	-26.483	-14.000
-32	-23.630	-14.000
-31	-25.550	-14.000
-30	-22.168	-14.000
-29	-22.148	-14.000
-28	-21.813	-14.000
-27	-22.801	-14.000
-26	-23.055	-14.000
-25	-23.573	-14.000
-24	-26.230	-14.000
-23	-26.135	-14.000
-22	-27.462	-14.000
-21	-28.692	-14.000
-20	-28.982	-14.000
-19	-30.894	-13.969
-18	-25.158	-13.382
-17	-27.552	-12.761
-16	-20.707	-12.103
-15	-27.684	-11.402
-14	-23.875	-10.653
-13	-21.610	-9.849
-12	-24.066	-8.980
-11	-15.310	-8.035
-10	-17.781	-7.000
-9	-13.157	-6.000
-8	-13.183	-6.000
-7	-11.033	-6.127
-6	-11.483	-4.454
-5	-6.592	-2.474
-4	-7.984	-0.051
-3	-9.081	3.072
-2	-9.538	7.474
-1	18.650	
0	24.649	
1	18.824	
2	-6.076	7.474
3	-4.591	3.072
4	-6.201	-0.051
5	-5.941	-2.474
6	-12.494	-4.454
7	-11.960	-6.127
8	-16.090	-6.000
9	-13.838	-6.000
10	-17.397	-7.000
11	-15.113	-8.035
12	-34.949	-8.980
13	-22.809	-9.849
14	-23.309	-10.653
15	-27.432	-11.402
16	-27.263	-12.103
17	-36.365	-12.761
18	-29.185	-13.382
19	-38.364	-13.969
20	-31.218	-14.000
21	-40.884	-14.000
22	-38.552	-14.000
23	-28.731	-14.000
24	-31.535	-14.000
25	-25.464	-14.000
26	-23.158	-14.000
27	-24.299	-14.000
28	-21.699	-14.000

29	-20.991	-14.000
30	-22.221	-14.000
31	-23.173	-14.000
32	-23.544	-14.000
33	-24.696	-14.000
34	-26.256	-14.000
35	-26.123	-14.000
36	-32.250	-14.000
37	-31.647	-14.000
38	-32.395	-14.000
39	-34.286	-14.000
40	-39.383	-14.000
41	-36.072	-14.000
42	-33.661	-14.000
43	-32.466	-14.000
44	-28.629	-14.000
45	-28.659	-14.000
46	-27.393	-14.000
47	-25.193	-14.000
48	-25.303	-14.000
49	-26.133	-14.000
50	-27.616	-14.000
51	-25.811	-14.000
52	-25.513	-14.000
53	-25.906	-14.000
54	-25.519	-14.000
55	-27.926	-14.000
56	-26.515	-14.000
57	-28.349	-14.000
58	-27.423	-14.000
59	-28.224	-14.000
60	-26.988	-14.000
61	-27.675	-14.000
62	-26.500	-14.000
63	-26.696	-14.000
64	-26.232	-14.000
65	-26.995	-14.000
66	-27.555	-14.000
67	-28.234	-14.000
68	-28.812	-14.000
69	-27.969	-14.000
70	-27.401	-14.000
71	-26.465	-14.000
72	-28.484	-14.000
73	-27.378	-14.000
74	-27.308	-14.000
75	-26.619	-14.000
76	-26.589	-14.000
77	-27.583	-14.000
78	-28.886	-14.000
79	-31.933	-14.000
80	-32.314	-14.000
81	-34.176	-14.000
82	-32.776	-14.000
83	-32.555	-14.000
84	-32.171	-14.000
85	-31.207	-14.000
86	-30.073	-14.000
87	-27.307	-14.000
88	-28.097	-14.000
89	-28.352	-14.000
90	-27.450	-14.000
91	-27.968	-14.000
92	-28.696	-14.000
93	-28.189	-14.000
94	-27.117	-14.000
95	-27.160	-14.000
96	-26.863	-14.000
97	-27.798	-14.000
98	-28.576	-14.000
99	-29.741	-14.000
100	-30.166	-14.000
101	-30.814	-14.000
102	-31.926	-14.000
103	-39.173	-14.000
104	-36.689	-14.000
105	-37.206	-14.000
106	-39.280	-14.000
107	-40.382	-14.000
108	-41.497	-14.000
109	-40.067	-14.000
110	-42.578	-14.000
111	-41.414	-14.000
112	-43.354	-14.000
113	-44.015	-14.000
114	-49.834	-14.000
115	-42.943	-14.000
116	-42.107	-14.000
117	-43.271	-14.000
118	-47.991	-14.000
119	-43.031	-14.000
120	-45.180	-14.000
121	-53.111	-14.000
122	-46.903	-14.000
123	-49.764	-14.000
124	-53.111	-14.000
125	-42.776	-14.000
126	-48.752	-14.000
127	-52.535	-14.000
128	-43.042	-14.000
129	-43.587	-14.000
130	-41.571	-14.000
131	-67.238	-14.000
132	-51.983	-14.000
133	-49.557	-14.000
134	-44.196	-14.000
135	-48.300	-14.000
136	-48.841	-14.000
137	-45.576	-14.000
138	-49.798	-14.000

139	-54.130	-14.000
140	-48.504	-14.000
141	-46.077	-14.000
142	-52.885	-14.000
143	-45.599	-14.000
144	-40.064	-14.000
145	-45.269	-14.000
146	-55.787	-14.000
147	-50.937	-14.000
148	-45.078	-14.000
149	-39.427	-14.000
150	-41.853	-14.000
151	-41.550	-14.000
152	-43.081	-14.000
153	-45.961	-14.000
154	-36.949	-14.000
155	-51.219	-14.000
156	-49.843	-14.000
157	-38.353	-14.000
158	-44.328	-14.000
159	-38.595	-14.000
160	-45.788	-14.000
161	-47.962	-14.000
162	-45.962	-14.000
163	-44.963	-14.000
164	-56.845	-14.000
165	-45.456	-14.000
166	-38.686	-14.000
167	-40.886	-14.000
168	-49.584	-14.000
169	-43.194	-14.000
170	-42.127	-14.000
171	-44.998	-14.000
172	-43.897	-14.000
173	-42.385	-14.000
174	-47.834	-14.000
175	-43.940	-14.000
176	-46.744	-14.000
177	-49.719	-14.000
178	-40.368	-14.000
179	-37.188	-14.000

2.2. Azimuth Pattern for Co-pol (-10°~10°)

F=14.25GHz, -16.95dBW/4KHz EIRP sd		
-10	-17.781	-7.000
-9.9	-17.272	-6.891
-9.8	-16.969	-6.781
-9.7	-16.514	-6.669
-9.6	-15.926	-6.557
-9.5	-15.418	-6.443
-9.4	-14.738	-6.328
-9.3	-14.218	-6.212
-9.2	-13.755	-6.000
-9.1	-13.574	-6.000
-9	-13.157	-6.000
-8.9	-12.922	-6.000
-8.8	-12.715	-6.000
-8.7	-12.517	-6.000
-8.6	-12.436	-6.000
-8.5	-12.206	-6.000
-8.4	-12.293	-6.000
-8.3	-12.374	-6.000
-8.2	-12.678	-6.000
-8.1	-12.858	-6.000
-8	-13.183	-6.000
-7.9	-13.419	-6.000
-7.8	-13.470	-6.000
-7.7	-13.438	-6.000
-7.6	-13.235	-6.000
-7.5	-12.962	-6.000
-7.4	-12.535	-6.000
-7.3	-12.076	-6.000
-7.2	-11.747	-6.000
-7.1	-11.240	-6.000
-7	-11.033	-6.127
-6.9	-10.708	-5.971
-6.8	-10.629	-5.813
-6.7	-10.565	-5.652
-6.6	-10.536	-5.489
-6.5	-10.608	-5.323
-6.4	-10.727	-5.154
-6.3	-10.867	-4.984
-6.2	-11.160	-4.810
-6.1	-11.396	-4.633
-6	-11.483	-4.454
-5.9	-11.574	-4.271
-5.8	-11.550	-4.086
-5.7	-11.354	-3.897
-5.6	-11.005	-3.705
-5.5	-10.472	-3.509
-5.4	-9.716	-3.310
-5.3	-9.064	-3.107
-5.2	-8.243	-2.900
-5.1	-7.362	-2.689
-5	-6.592	-2.474
-4.9	-5.919	-2.255
-4.8	-5.459	-2.031
-4.7	-5.037	-1.802
-4.6	-5.016	-1.569
-4.5	-4.992	-1.330
-4.4	-5.195	-1.086
-4.3	-5.674	-0.837
-4.2	-6.253	-0.581
-4.1	-7.042	-0.320
-4	-7.984	-0.051
-3.9	-8.965	0.223
-3.8	-9.870	0.505
-3.7	-10.398	0.795
-3.6	-10.786	1.092
-3.5	-10.791	1.398
-3.4	-10.712	1.713
-3.3	-10.683	2.037
-3.2	-10.377	2.371
-3.1	-9.926	2.716
-3	-9.081	3.072
-2.9	-8.043	3.440
-2.8	-6.905	3.821
-2.7	-5.664	4.216
-2.6	-4.679	4.626
-2.5	-3.910	5.051
-2.4	-3.726	5.495
-2.3	-4.142	5.957
-2.2	-5.206	6.439
-2.1	-7.725	6.945
-2	-9.538	7.474
-1.9	-6.970	8.031
-1.8	-1.017	8.618
-1.7	3.453	9.239
-1.6	6.900	9.897
-1.5	9.735	10.598
-1.4	12.014	
-1.3	13.813	
-1.2	15.664	
-1.1	17.162	
-1	18.650	
-0.9	19.774	
-0.8	20.879	
-0.7	21.643	
-0.6	22.417	
-0.5	23.064	
-0.4	23.569	
-0.3	24.044	

-0.2	24.378	
-0.1	24.570	
0	24.649	
0.1	24.627	
0.2	24.489	
0.3	24.223	
0.4	23.801	
0.5	23.257	
0.6	22.706	
0.7	21.919	
0.8	21.133	
0.9	20.107	
1	18.824	
1.1	17.471	
1.2	15.795	
1.3	14.042	
1.4	12.078	
1.5	9.738	10.598
1.6	6.564	9.897
1.7	2.772	9.239
1.8	-3.523	8.618
1.9	-7.989	8.031
2	-6.076	7.474
2.1	-2.688	6.945
2.2	-0.814	6.439
2.3	0.019	5.957
2.4	0.277	5.495
2.5	0.111	5.051
2.6	-0.557	4.626
2.7	-1.451	4.216
2.8	-2.445	3.821
2.9	-3.586	3.440
3	-4.591	3.072
3.1	-5.695	2.716
3.2	-6.618	2.371
3.3	-7.310	2.037
3.4	-7.784	1.713
3.5	-8.117	1.398
3.6	-8.131	1.092
3.7	-8.006	0.795
3.8	-7.653	0.505
3.9	-6.942	0.223
4	-6.201	-0.051
4.1	-5.568	-0.320
4.2	-4.981	-0.581
4.3	-4.537	-0.837
4.4	-4.225	-1.086
4.5	-4.114	-1.330
4.6	-4.163	-1.569
4.7	-4.368	-1.802
4.8	-4.839	-2.031
4.9	-5.274	-2.255
5	-5.941	-2.474
5.1	-6.797	-2.689
5.2	-7.692	-2.900
5.3	-8.676	-3.107
5.4	-9.658	-3.310
5.5	-10.614	-3.509
5.6	-11.428	-3.705
5.7	-12.067	-3.897
5.8	-12.512	-4.086
5.9	-12.575	-4.271
6	-12.494	-4.454
6.1	-12.397	-4.633
6.2	-12.037	-4.810
6.3	-11.719	-4.984
6.4	-11.440	-5.154
6.5	-11.286	-5.323
6.6	-11.179	-5.489
6.7	-11.210	-5.652
6.8	-11.400	-5.813
6.9	-11.575	-5.971
7	-11.960	-6.127
7.1	-12.677	-6.000
7.2	-13.424	-6.000
7.3	-14.033	-6.000
7.4	-14.994	-6.000
7.5	-15.865	-6.000
7.6	-16.521	-6.000
7.7	-16.965	-6.000
7.8	-16.754	-6.000
7.9	-16.554	-6.000
8	-16.090	-6.000
8.1	-15.689	-6.000
8.2	-15.287	-6.000
8.3	-14.977	-6.000
8.4	-14.804	-6.000
8.5	-14.501	-6.000
8.6	-14.190	-6.000
8.7	-14.121	-6.000
8.8	-14.064	-6.000
8.9	-13.931	-6.000
9	-13.838	-6.000
9.1	-14.007	-6.000
9.2	-14.284	-6.000
9.3	-14.474	-6.212
9.4	-14.848	-6.328
9.5	-15.060	-6.443
9.6	-15.717	-6.557
9.7	-16.289	-6.669
9.8	-16.687	-6.781
9.9	-17.059	-6.891
10	-17.397	-7.000

2.3. Azimuth Pattern for Cross-pol (-7°~7°)

F=14.25GHz, -16.95dBW/4KHz EIRP sd		
-7	-35.099	-16.127
-6.9	-36.021	-15.971
-6.8	-34.730	-15.813
-6.7	-32.149	-15.652
-6.6	-33.560	-15.489
-6.5	-31.535	-15.323
-6.4	-30.731	-15.154
-6.3	-31.529	-14.984
-6.2	-30.095	-14.810
-6.1	-30.708	-14.633
-6	-31.533	-14.454
-5.9	-32.066	-14.271
-5.8	-32.352	-14.086
-5.7	-34.011	-13.897
-5.6	-35.910	-13.705
-5.5	-37.495	-13.509
-5.4	-37.310	-13.310
-5.3	-41.615	-13.107
-5.2	-44.516	-12.900
-5.1	-49.702	-12.689
-5	-50.874	-12.474
-4.9	-46.073	-12.255
-4.8	-44.770	-12.031
-4.7	-39.039	-11.802
-4.6	-36.501	-11.569
-4.5	-33.991	-11.330
-4.4	-31.315	-11.086
-4.3	-30.530	-10.837
-4.2	-29.174	-10.581
-4.1	-28.389	-10.320
-4	-27.733	-10.051
-3.9	-27.824	-9.777
-3.8	-27.235	-9.495
-3.7	-27.115	-9.205
-3.6	-27.379	-8.908
-3.5	-27.955	-8.602
-3.4	-28.081	-8.287
-3.3	-27.592	-7.963
-3.2	-27.582	-7.629
-3.1	-26.474	-7.284
-3	-25.187	-6.928
-2.9	-24.514	-6.560
-2.8	-24.187	-6.179
-2.7	-23.355	-5.784
-2.6	-22.535	-5.374
-2.5	-22.099	-4.949
-2.4	-21.456	-4.505
-2.3	-21.324	-4.043
-2.2	-21.490	-3.561
-2.1	-21.481	-3.055
-2	-22.187	-2.526
-1.9	-22.418	-1.969
-1.8	-22.272	-1.382
-1.7	-21.842	-0.761
-1.6	-20.821	-0.103
-1.5	-19.637	0.598
-1.4	-18.374	
-1.3	-17.321	
-1.2	-16.080	
-1.1	-15.173	
-1	-14.438	
-0.9	-13.704	
-0.8	-13.130	
-0.7	-12.669	
-0.6	-12.352	
-0.5	-12.050	
-0.4	-11.778	
-0.3	-11.594	
-0.2	-11.592	
-0.1	-11.641	
0	-11.731	
0.1	-11.926	
0.2	-11.970	
0.3	-12.097	
0.4	-12.287	
0.5	-12.334	
0.6	-12.379	
0.7	-12.379	
0.8	-12.573	
0.9	-12.652	
1	-12.928	
1.1	-13.238	
1.2	-13.659	
1.3	-14.143	
1.4	-14.658	
1.5	-15.236	0.598
1.6	-15.763	-0.103
1.7	-16.588	-0.761
1.8	-17.141	-1.382
1.9	-18.135	-1.969
2	-18.609	-2.526
2.1	-19.504	-3.055
2.2	-19.894	-3.561
2.3	-20.608	-4.043
2.4	-20.684	-4.505
2.5	-21.687	-4.949
2.6	-22.069	-5.374
2.7	-22.531	-5.784
2.8	-23.005	-6.179
2.9	-23.519	-6.560

3	-24.785	-6.928
3.1	-26.091	-7.284
3.2	-28.087	-7.629
3.3	-30.256	-7.963
3.4	-32.889	-8.287
3.5	-36.903	-8.602
3.6	-41.187	-8.908
3.7	-37.143	-9.205
3.8	-37.358	-9.495
3.9	-33.923	-9.777
4	-31.899	-10.051
4.1	-33.036	-10.320
4.2	-31.332	-10.581
4.3	-31.619	-10.837
4.4	-31.450	-11.086
4.5	-31.196	-11.330
4.6	-31.316	-11.569
4.7	-32.251	-11.802
4.8	-32.569	-12.031
4.9	-34.093	-12.255
5	-33.476	-12.474
5.1	-36.253	-12.689
5.2	-35.198	-12.900
5.3	-36.377	-13.107
5.4	-35.287	-13.310
5.5	-32.962	-13.509
5.6	-31.880	-13.705
5.7	-32.574	-13.897
5.8	-33.305	-14.086
5.9	-33.061	-14.271
6	-31.637	-14.454
6.1	-32.586	-14.633
6.2	-33.059	-14.810
6.3	-32.887	-14.984
6.4	-32.872	-15.154
6.5	-34.495	-15.323
6.6	-33.962	-15.489
6.7	-35.431	-15.652
6.8	-35.457	-15.813
6.9	-37.454	-15.971
7	-37.402	-16.127

2.4. Elevation Pattern for Co-pol (0°~30°)

F=14.25GHz, -16.95dBW/4KHz EIRP sd		
0	24.643	
0.1	24.583	
0.2	24.474	
0.3	24.268	
0.4	23.944	
0.5	23.383	
0.6	22.662	
0.7	21.914	
0.8	21.098	
0.9	20.182	
1	19.100	
1.1	17.873	
1.2	16.225	
1.3	14.554	
1.4	12.667	
1.5	10.653	
1.6	8.384	
1.7	5.817	
1.8	2.800	
1.9	-0.884	
2	-4.020	
2.1	-5.304	
2.2	-4.719	
2.3	-3.915	
2.4	-3.433	
2.5	-3.369	
2.6	-3.583	
2.7	-3.905	
2.8	-4.336	
2.9	-4.896	
3	-5.513	6.072
3.1	-6.224	5.716
3.2	-7.020	5.371
3.3	-8.147	5.037
3.4	-9.261	4.713
3.5	-10.275	4.398
3.6	-10.826	4.092
3.7	-10.936	3.795
3.8	-10.823	3.505
3.9	-10.448	3.223
4	-9.773	2.949
4.1	-9.339	2.680
4.2	-8.860	2.419
4.3	-8.668	2.163
4.4	-8.772	1.914
4.5	-8.841	1.670
4.6	-8.811	1.431
4.7	-8.823	1.198
4.8	-8.867	0.969
4.9	-8.954	0.745
5	-9.196	0.526
5.1	-9.363	0.311
5.2	-9.518	0.100
5.3	-9.550	-0.107
5.4	-9.723	-0.310
5.5	-9.813	-0.509
5.6	-9.944	-0.705
5.7	-10.109	-0.897
5.8	-9.799	-1.086
5.9	-9.350	-1.271
6	-8.656	-1.454
6.1	-8.270	-1.633
6.2	-7.996	-1.810
6.3	-7.742	-1.984
6.4	-7.577	-2.154
6.5	-7.682	-2.323
6.6	-8.046	-2.489
6.7	-8.729	-2.652
6.8	-9.619	-2.813
6.9	-10.643	-2.971
7	-12.092	-3.127
7.1	-13.928	-3.281
7.2	-16.206	-3.433
7.3	-19.165	-3.583
7.4	-23.440	-3.731
7.5	-30.557	-3.877
7.6	-36.053	-4.020
7.7	-28.217	-4.162
7.8	-24.516	-4.302
7.9	-21.695	-4.441
8	-20.188	-4.577
8.1	-18.816	-4.712
8.2	-17.858	-4.845
8.3	-16.819	-4.977
8.4	-15.966	-5.107
8.5	-15.085	-5.235
8.6	-14.589	-5.362
8.7	-14.156	-5.488
8.8	-14.006	-5.612
8.9	-13.956	-5.735
9	-14.249	-5.856
9.1	-14.789	-5.976
9.2	-15.425	-6.095
9.3	-16.267	-6.212
9.4	-17.176	-6.328
9.5	-18.212	-6.443
9.6	-19.417	-6.557
9.7	-20.114	-6.669
9.8	-20.755	-6.781
9.9	-20.816	-6.891

10	-20.488	-7.000
10.1	-19.874	-7.108
10.2	-18.692	-7.215
10.3	-17.700	-7.321
10.4	-16.835	-7.426
10.5	-16.280	-7.530
10.6	-15.783	-7.633
10.7	-15.407	-7.735
10.8	-15.003	-7.836
10.9	-14.865	-7.936
11	-14.922	-8.035
11.1	-15.110	-8.133
11.2	-15.629	-8.230
11.3	-16.189	-8.327
11.4	-17.132	-8.423
11.5	-18.304	-8.517
11.6	-19.815	-8.611
11.7	-21.896	-8.705
11.8	-24.408	-8.797
11.9	-26.570	-8.889
12	-27.432	-8.980
12.1	-28.921	-9.070
12.2	-25.689	-9.159
12.3	-23.137	-9.248
12.4	-21.389	-9.336
12.5	-20.332	-9.423
12.6	-19.633	-9.509
12.7	-19.022	-9.595
12.8	-18.467	-9.680
12.9	-17.980	-9.765
13	-17.570	-9.849
13.1	-17.247	-9.932
13.2	-17.022	-10.014
13.3	-16.919	-10.096
13.4	-16.964	-10.178
13.5	-17.175	-10.258
13.6	-17.566	-10.338
13.7	-18.150	-10.418
13.8	-18.933	-10.497
13.9	-19.924	-10.575
14	-21.125	-10.653
14.1	-22.535	-10.730
14.2	-24.137	-10.807
14.3	-25.876	-10.883
14.4	-27.667	-10.959
14.5	-29.224	-11.034
14.6	-30.164	-11.109
14.7	-30.276	-11.183
14.8	-29.642	-11.257
14.9	-28.388	-11.330
15	-26.776	-11.402
15.1	-25.121	-11.474
15.2	-23.631	-11.546
15.3	-22.340	-11.617
15.4	-21.265	-11.688
15.5	-20.415	-11.758
15.6	-19.797	-11.828
15.7	-19.412	-11.897
15.8	-19.258	-11.966
15.9	-19.328	-12.035
16	-19.617	-12.103
16.1	-20.117	-12.171
16.2	-20.780	-12.238
16.3	-21.505	-12.305
16.4	-22.185	-12.371
16.5	-22.702	-12.437
16.6	-22.938	-12.503
16.7	-22.879	-12.568
16.8	-22.666	-12.633
16.9	-22.455	-12.697
17	-22.401	-12.761
17.1	-22.653	-12.825
17.2	-23.242	-12.888
17.3	-24.001	-12.951
17.4	-24.854	-13.014
17.5	-26.472	-13.076
17.6	-29.842	-13.138
17.7	-34.658	-13.199
17.8	-38.370	-13.261
17.9	-38.582	-13.321
18	-36.006	-13.382
18.1	-32.860	-13.442
18.2	-30.571	-13.502
18.3	-28.962	-13.561
18.4	-27.686	-13.620
18.5	-26.570	-13.679
18.6	-25.544	-13.738
18.7	-24.566	-13.796
18.8	-23.668	-13.854
18.9	-22.887	-13.912
19	-22.255	-13.969
19.1	-21.796	-14.026
19.2	-21.530	-14.000
19.3	-21.471	-14.000
19.4	-21.631	-14.000
19.5	-22.031	-14.000
19.6	-22.700	-14.000
19.7	-23.675	-14.000
19.8	-25.022	-14.000
19.9	-26.821	-14.000
20	-29.345	-14.000
20.1	-28.581	-14.000
20.2	-33.580	-14.000
20.3	-37.540	-14.000

20.4	-37.443	-14.000
20.5	-32.892	-14.000
20.6	-27.384	-14.000
20.7	-24.300	-14.000
20.8	-23.640	-14.000
20.9	-23.808	-14.000
21	-23.738	-14.000
21.1	-23.541	-14.000
21.2	-23.462	-14.000
21.3	-23.495	-14.000
21.4	-23.460	-14.000
21.5	-23.236	-14.000
21.6	-22.925	-14.000
21.7	-22.670	-14.000
21.8	-22.560	-14.000
21.9	-22.624	-14.000
22	-22.911	-14.000
22.1	-23.590	-14.000
22.2	-24.864	-14.000
22.3	-26.624	-14.000
22.4	-28.225	-14.000
22.5	-29.018	-14.000
22.6	-28.839	-14.000
22.7	-27.809	-14.000
22.8	-26.147	-14.000
22.9	-24.338	-14.000
23	-22.906	-14.000
23.1	-22.029	-14.000
23.2	-21.539	-14.000
23.3	-21.275	-14.000
23.4	-21.193	-14.000
23.5	-21.293	-14.000
23.6	-21.568	-14.000
23.7	-22.006	-14.000
23.8	-22.594	-14.000
23.9	-23.307	-14.000
24	-24.118	-14.000
24.1	-25.054	-14.000
24.2	-26.361	-14.000
24.3	-28.326	-14.000
24.4	-31.006	-14.000
24.5	-34.148	-14.000
24.6	-37.387	-14.000
24.7	-39.590	-14.000
24.8	-39.230	-14.000
24.9	-35.670	-14.000
25	-30.850	-14.000
25.1	-28.831	-14.000
25.2	-27.743	-14.000
25.3	-27.305	-14.000
25.4	-27.201	-14.000
25.5	-26.904	-14.000
25.6	-25.435	-14.000
25.7	-25.477	-14.000
25.8	-25.064	-14.000
25.9	-24.829	-14.000
26	-24.503	-14.000
26.1	-24.553	-14.000
26.2	-24.541	-14.000
26.3	-24.708	-14.000
26.4	-24.844	-14.000
26.5	-25.213	-14.000
26.6	-25.389	-14.000
26.7	-25.689	-14.000
26.8	-25.434	-14.000
26.9	-25.711	-14.000
27	-25.929	-14.000
27.1	-25.534	-14.000
27.2	-25.590	-14.000
27.3	-25.124	-14.000
27.4	-25.195	-14.000
27.5	-24.448	-14.000
27.6	-24.348	-14.000
27.7	-23.838	-14.000
27.8	-24.091	-14.000
27.9	-24.240	-14.000
28	-24.253	-14.000
28.1	-24.727	-14.000
28.2	-24.554	-14.000
28.3	-25.413	-14.000
28.4	-25.607	-14.000
28.5	-25.700	-14.000
28.6	-25.878	-14.000
28.7	-26.103	-14.000
28.8	-25.642	-14.000
28.9	-25.796	-14.000
29	-25.393	-14.000
29.1	-25.448	-14.000
29.2	-25.358	-14.000
29.3	-24.839	-14.000
29.4	-24.844	-14.000
29.5	-25.124	-14.000
29.6	-24.646	-14.000
29.7	-24.326	-14.000
29.8	-25.014	-14.000
29.9	-24.749	-14.000
30	-25.157	-14.000

2.5. Elevation Pattern for Cross-pol (-7°~7°)

F=14.25GHz, -16.95dBW/4KHz EIRP sd		
-7	-26.113	-16.127
-6.9	-25.218	-15.971
-6.8	-23.545	-15.813
-6.7	-23.341	-15.652
-6.6	-22.180	-15.489
-6.5	-24.565	-15.323
-6.4	-29.919	-15.154
-6.3	-39.876	-14.984
-6.2	-29.000	-14.810
-6.1	-28.721	-14.633
-6	-28.834	-14.454
-5.9	-24.012	-14.271
-5.8	-21.566	-14.086
-5.7	-21.232	-13.897
-5.6	-21.243	-13.705
-5.5	-20.408	-13.509
-5.4	-17.521	-13.310
-5.3	-16.899	-13.107
-5.2	-17.470	-12.900
-5.1	-16.902	-12.689
-5	-17.291	-12.474
-4.9	-19.650	-12.255
-4.8	-20.612	-12.031
-4.7	-19.170	-11.802
-4.6	-20.178	-11.569
-4.5	-21.696	-11.330
-4.4	-27.094	-11.086
-4.3	-25.417	-10.837
-4.2	-21.996	-10.581
-4.1	-21.727	-10.320
-4	-19.992	-10.051
-3.9	-18.980	-9.777
-3.8	-17.508	-9.495
-3.7	-17.583	-9.205
-3.6	-17.532	-8.908
-3.5	-18.697	-8.602
-3.4	-23.502	-8.287
-3.3	-27.493	-7.963
-3.2	-25.049	-7.629
-3.1	-23.547	-7.284
-3	-18.706	-6.928
-2.9	-15.334	-6.560
-2.8	-12.684	-6.179
-2.7	-10.692	-5.784
-2.6	-8.945	-5.374
-2.5	-7.559	-4.949
-2.4	-6.851	-4.505
-2.3	-5.923	-4.043
-2.2	-5.015	-3.561
-2.1	-4.592	-3.055
-2	-4.544	-2.526
-1.9	-4.810	-1.969
-1.8	-5.085	-1.382
-1.7	-6.076	-0.761
-1.6	-7.554	-0.103
-1.5	-9.298	0.598
-1.4	-11.926	
-1.3	-17.836	
-1.2	-22.048	
-1.1	-11.258	
-1	-7.901	
-0.9	-5.401	
-0.8	-3.350	
-0.7	-1.424	
-0.6	0.537	
-0.5	1.873	
-0.4	2.910	
-0.3	3.437	
-0.2	3.992	
-0.1	4.639	
0	5.192	
0.1	5.609	
0.2	5.743	
0.3	5.785	
0.4	5.732	
0.5	5.521	
0.6	5.423	
0.7	5.246	
0.8	5.063	
0.9	4.629	
1	3.888	
1.1	3.414	
1.2	2.730	
1.3	2.182	
1.4	1.557	
1.5	0.689	0.598
1.6	-0.169	-0.103
1.7	-0.945	-0.761
1.8	-1.823	-1.382
1.9	-2.165	-1.969
2	-2.652	-2.526
2.1	-3.132	-3.055
2.2	-3.350	-3.561
2.3	-3.571	-4.043
2.4	-3.509	-4.505
2.5	-3.602	-4.949
2.6	-3.973	-5.374
2.7	-4.111	-5.784
2.8	-4.865	-6.179
2.9	-5.411	-6.560

3	-5.573	-6.928
3.1	-5.925	-7.284
3.2	-6.702	-7.629
3.3	-7.584	-7.963
3.4	-8.551	-8.287
3.5	-10.166	-8.602
3.6	-12.164	-8.908
3.7	-14.285	-9.205
3.8	-15.738	-9.495
3.9	-17.696	-9.777
4	-19.987	-10.051
4.1	-19.627	-10.320
4.2	-20.882	-10.581
4.3	-20.309	-10.837
4.4	-18.674	-11.086
4.5	-17.550	-11.330
4.6	-17.049	-11.569
4.7	-16.887	-11.802
4.8	-15.699	-12.031
4.9	-15.755	-12.255
5	-15.659	-12.474
5.1	-15.460	-12.689
5.2	-14.820	-12.900
5.3	-15.056	-13.107
5.4	-15.549	-13.310
5.5	-16.284	-13.509
5.6	-15.453	-13.705
5.7	-17.472	-13.897
5.8	-18.070	-14.086
5.9	-19.058	-14.271
6	-19.604	-14.454
6.1	-18.149	-14.633
6.2	-17.260	-14.810
6.3	-17.185	-14.984
6.4	-16.182	-15.154
6.5	-15.709	-15.323
6.6	-15.526	-15.489
6.7	-15.897	-15.652
6.8	-16.068	-15.813
6.9	-17.087	-15.971
7	-19.472	-16.127