

Exhibit
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2. EIRP Spectral Density Data

2.1. Azimuth pattern for Co-pol (-10°~10°) 1/2

14.25GHz@ -16.2 dBW/ 4kHz

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-10.00	-43.50	-16.00
-9.90	-43.23	-16.00
-9.80	-42.28	-16.00
-9.70	-41.49	-16.00
-9.60	-40.79	-16.00
-9.50	-39.84	-16.00
-9.40	-40.03	-16.00
-9.30	-39.32	-16.00
-9.20	-39.16	-16.00
-9.10	-39.57	-16.00
-9.00	-39.49	-16.00
-8.90	-40.10	-16.00
-8.80	-40.90	-16.00
-8.70	-41.49	-16.00
-8.60	-42.71	-16.00
-8.50	-44.51	-16.00
-8.40	-45.73	-16.00
-8.30	-47.57	-16.00
-8.20	-48.74	-16.00
-8.10	-49.28	-16.00
-8.00	-49.18	-16.00
-7.90	-48.96	-16.00
-7.80	-51.66	-16.00
-7.70	-52.27	-16.00
-7.60	-53.21	-16.00
-7.50	-53.06	-16.00
-7.40	-52.66	-16.00
-7.30	-50.05	-16.00
-7.20	-47.90	-16.00
-7.10	-46.98	-16.00
-7.00	-46.00	-16.13
-6.90	-45.47	-15.97
-6.80	-45.06	-15.81
-6.70	-44.14	-15.65
-6.60	-43.41	-15.49
-6.50	-42.58	-15.32
-6.40	-41.71	-15.15
-6.30	-40.97	-14.98
-6.20	-40.76	-14.81
-6.10	-40.18	-14.63
-6.00	-40.37	-14.45
-5.90	-40.65	-14.27
-5.80	-40.38	-14.09
-5.70	-40.64	-13.90
-5.60	-41.73	-13.70
-5.50	-42.07	-13.51
-5.40	-42.87	-13.31
-5.30	-42.94	-13.11
-5.20	-43.91	-12.90
-5.10	-45.03	-12.69

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-5.00	-44.88	-12.47
-4.90	-44.79	-12.25
-4.80	-45.26	-12.03
-4.70	-46.07	-11.80
-4.60	-48.64	-11.57
-4.50	-51.97	-11.33
-4.40	-52.78	-11.09
-4.30	-48.55	-10.84
-4.20	-42.99	-10.58
-4.10	-39.66	-10.32
-4.00	-36.44	-10.05
-3.90	-34.00	-9.78
-3.80	-31.59	-9.49
-3.70	-30.19	-9.21
-3.60	-28.81	-8.91
-3.50	-27.87	-8.60
-3.40	-26.83	-8.29
-3.30	-26.33	-7.96
-3.20	-25.80	-7.63
-3.10	-25.27	-7.28
-3.00	-24.99	-6.93
-2.90	-24.36	-6.56
-2.80	-23.77	-6.18
-2.70	-22.85	-5.78
-2.60	-22.02	-5.37
-2.50	-20.67	-4.95
-2.40	-19.47	-4.51
-2.30	-18.19	-4.04
-2.20	-17.07	-3.56
-2.10	-15.76	-3.06
-2.00	-14.75	-2.53
-1.90	-13.97	-1.97
-1.80	-13.09	-1.38
-1.70	-12.51	
-1.60	-11.92	
-1.50	-11.49	
-1.40	-11.17	
-1.30	-11.07	
-1.20	-11.08	
-1.10	-11.20	
-1.00	-11.52	
-0.90	-12.07	
-0.80	-12.63	
-0.70	-13.39	
-0.60	-14.16	
-0.50	-15.39	
-0.40	-16.66	
-0.30	-17.92	
-0.20	-18.64	
-0.10	-18.68	

Exhibit
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2.2. Azimuth pattern for Co-pol (-10°~10°) 2/2

14.25GHz@ -16.2 dBW/ 4kHz

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
0.00	-18.11	
0.10	-17.25	
0.20	-16.52	
0.30	-15.94	
0.40	-15.35	
0.50	-15.30	
0.60	-15.33	
0.70	-15.56	
0.80	-15.93	
0.90	-16.65	
1.00	-17.71	
1.10	-19.00	
1.20	-20.70	
1.30	-22.68	
1.40	-24.42	
1.50	-25.65	
1.60	-25.01	
1.70	-23.86	
1.80	-23.30	-1.38
1.90	-22.15	-1.97
2.00	-21.56	-2.53
2.10	-21.32	-3.06
2.20	-21.18	-3.56
2.30	-21.56	-4.04
2.40	-21.73	-4.51
2.50	-22.80	-4.95
2.60	-24.34	-5.37
2.70	-25.86	-5.78
2.80	-28.13	-6.18
2.90	-31.07	-6.56
3.00	-33.74	-6.93
3.10	-35.50	-7.28
3.20	-33.67	-7.63
3.30	-31.04	-7.96
3.40	-29.88	-8.29
3.50	-28.85	-8.60
3.60	-28.20	-8.91
3.70	-28.10	-9.21
3.80	-27.80	-9.49
3.90	-28.00	-9.78
4.00	-28.74	-10.05
4.10	-29.44	-10.32
4.20	-30.18	-10.58
4.30	-31.04	-10.84
4.40	-31.47	-11.09
4.50	-32.15	-11.33
4.60	-32.62	-11.57
4.70	-32.93	-11.80
4.80	-33.50	-12.03
4.90	-34.23	-12.25

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
5.00	-34.98	-12.47
5.10	-35.59	-12.69
5.20	-37.27	-12.90
5.30	-38.24	-13.11
5.40	-38.84	-13.31
5.50	-39.03	-13.51
5.60	-39.49	-13.70
5.70	-39.29	-13.90
5.80	-39.24	-14.09
5.90	-39.32	-14.27
6.00	-40.05	-14.45
6.10	-40.70	-14.63
6.20	-42.12	-14.81
6.30	-43.10	-14.98
6.40	-44.16	-15.15
6.50	-45.08	-15.32
6.60	-44.93	-15.49
6.70	-43.10	-15.65
6.80	-42.30	-15.81
6.90	-41.50	-15.97
7.00	-40.86	-16.13
7.10	-40.57	-16.00
7.20	-41.19	-16.00
7.30	-42.03	-16.00
7.40	-42.69	-16.00
7.50	-44.23	-16.00
7.60	-47.71	-16.00
7.70	-50.06	-16.00
7.80	-53.84	-16.00
7.90	-55.88	-16.00
8.00	-54.06	-16.00
8.10	-51.99	-16.00
8.20	-48.30	-16.00
8.30	-47.19	-16.00
8.40	-46.31	-16.00
8.50	-47.26	-16.00
8.60	-45.79	-16.00
8.70	-47.22	-16.00
8.80	-48.97	-16.00
8.90	-51.57	-16.00
9.00	-52.38	-16.00
9.10	-53.65	-16.00
9.20	-51.98	-16.00
9.30	-52.20	-16.00
9.40	-50.10	-16.00
9.50	-48.86	-16.00
9.60	-50.37	-16.00
9.70	-47.95	-16.00
9.80	-47.32	-16.00
9.90	-47.75	-16.00
10.00	-48.84	-16.00

2.3. Azimuth pattern for Co-pol (-180°~180°) 1/4

14.25GHz@ -16.2 dBW/ 4kHz

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-180.00	-38.45	-14.00
-179.00	-36.72	-14.00
-178.00	-38.34	-14.00
-177.00	-41.54	-14.00
-176.00	-38.61	-14.00
-175.00	-36.72	-14.00
-174.00	-39.44	-14.00
-173.00	-45.12	-14.00
-172.00	-38.59	-14.00
-171.00	-41.29	-14.00
-170.00	-41.94	-14.00
-169.00	-46.74	-14.00
-168.00	-46.08	-14.00
-167.00	-48.49	-14.00
-166.00	-40.38	-14.00
-165.00	-44.75	-14.00
-164.00	-39.92	-14.00
-163.00	-45.64	-14.00
-162.00	-50.79	-14.00
-161.00	-45.67	-14.00
-160.00	-42.38	-14.00
-159.00	-55.14	-14.00
-158.00	-59.58	-14.00
-157.00	-43.17	-14.00
-156.00	-36.44	-14.00
-155.00	-37.60	-14.00
-154.00	-43.88	-14.00
-153.00	-54.07	-14.00
-152.00	-37.89	-14.00
-151.00	-43.67	-14.00
-150.00	-44.19	-14.00
-149.00	-42.63	-14.00
-148.00	-40.14	-14.00
-147.00	-37.56	-14.00
-146.00	-54.81	-14.00
-145.00	-38.54	-14.00
-144.00	-46.82	-14.00
-143.00	-34.51	-14.00
-142.00	-44.31	-14.00
-141.00	-38.07	-14.00
-140.00	-39.50	-14.00
-139.00	-38.46	-14.00
-138.00	-44.31	-14.00
-137.00	-41.91	-14.00
-136.00	-39.79	-14.00

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-135.00	-40.72	-14.00
-134.00	-41.07	-14.00
-133.00	-42.83	-14.00
-132.00	-44.30	-14.00
-131.00	-46.63	-14.00
-130.00	-37.34	-14.00
-129.00	-42.58	-14.00
-128.00	-45.48	-14.00
-127.00	-44.15	-14.00
-126.00	-42.53	-14.00
-125.00	-43.17	-14.00
-124.00	-41.20	-14.00
-123.00	-40.79	-14.00
-122.00	-46.68	-14.00
-121.00	-41.41	-14.00
-120.00	-39.76	-14.00
-119.00	-37.20	-14.00
-118.00	-40.08	-14.00
-117.00	-39.12	-14.00
-116.00	-36.24	-14.00
-115.00	-36.81	-14.00
-114.00	-35.96	-14.00
-113.00	-38.69	-14.00
-112.00	-38.76	-14.00
-111.00	-33.49	-14.00
-110.00	-36.05	-14.00
-109.00	-35.53	-14.00
-108.00	-34.21	-14.00
-107.00	-38.36	-14.00
-106.00	-34.18	-14.00
-105.00	-30.94	-14.00
-104.00	-34.00	-14.00
-103.00	-35.47	-14.00
-102.00	-37.65	-14.00
-101.00	-38.23	-14.00
-100.00	-34.30	-14.00
-99.00	-31.79	-14.00
-98.00	-34.95	-14.00
-97.00	-47.91	-14.00
-96.00	-42.14	-14.00
-95.00	-34.84	-14.00
-94.00	-29.64	-14.00
-93.00	-28.54	-14.00
-92.00	-29.53	-14.00
-91.00	-32.39	-14.00

2.4. Azimuth pattern for Co-pol (-180°~180°) 2/4

14.25GHz@ -16.2 dBW/ 4kHz

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-90.00	-34.72	-14.00
-89.00	-29.72	-14.00
-88.00	-28.76	-14.00
-87.00	-25.63	-14.00
-86.00	-26.69	-14.00
-85.00	-25.66	-24.00
-84.00	-27.08	-24.00
-83.00	-25.65	-24.00
-82.00	-24.83	-24.00
-81.00	-25.86	-24.00
-80.00	-25.36	-24.00
-79.00	-25.91	-24.00
-78.00	-27.97	-24.00
-77.00	-26.78	-24.00
-76.00	-31.71	-24.00
-75.00	-27.99	-24.00
-74.00	-31.33	-24.00
-73.00	-31.09	-24.00
-72.00	-30.31	-24.00
-71.00	-28.50	-24.00
-70.00	-33.86	-24.00
-69.00	-32.63	-24.00
-68.00	-30.82	-24.00
-67.00	-31.35	-24.00
-66.00	-32.49	-24.00
-65.00	-30.99	-24.00
-64.00	-31.61	-24.00
-63.00	-32.92	-24.00
-62.00	-37.04	-24.00
-61.00	-33.06	-24.00
-60.00	-32.89	-24.00
-59.00	-30.88	-24.00
-58.00	-35.41	-24.00
-57.00	-47.64	-24.00
-56.00	-38.38	-24.00
-55.00	-30.85	-24.00
-54.00	-33.00	-24.00
-53.00	-44.63	-24.00
-52.00	-44.06	-24.00
-51.00	-33.76	-24.00
-50.00	-38.69	-24.00
-49.00	-36.32	-24.00
-48.00	-43.68	-24.03
-47.00	-39.93	-23.80
-46.00	-37.93	-23.57

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-45.00	-31.32	-23.33
-44.00	-48.94	-23.09
-43.00	-35.63	-22.84
-42.00	-32.47	-22.58
-41.00	-31.82	-22.32
-40.00	-41.44	-22.05
-39.00	-33.30	-21.78
-38.00	-37.71	-21.49
-37.00	-35.82	-21.21
-36.00	-42.69	-20.91
-35.00	-41.45	-20.60
-34.00	-43.23	-20.29
-33.00	-36.93	-19.96
-32.00	-37.40	-19.63
-31.00	-34.61	-19.28
-30.00	-44.32	-18.93
-29.00	-37.93	-18.56
-28.00	-41.41	-18.18
-27.00	-36.09	-17.78
-26.00	-37.49	-17.37
-25.00	-56.41	-16.95
-24.00	-37.96	-16.51
-23.00	-38.86	-16.04
-22.00	-50.60	-15.56
-21.00	-37.00	-15.06
-20.00	-41.53	-14.53
-19.00	-31.39	-13.97
-18.00	-31.69	-13.38
-17.00	-31.90	-12.76
-16.00	-41.01	-12.10
-15.00	-43.40	-11.40
-14.00	-32.48	-10.65
-13.00	-28.85	-9.85
-12.00	-18.42	-8.98
-11.00	-22.86	-8.03
-10.00	-20.61	-7.00
-9.00	-11.18	-6.00
-8.00	-16.94	-6.00
-7.00	-10.97	-6.13
-6.00	-8.33	-4.45
-5.00	-9.46	-2.47
-4.00	-6.06	-0.05
-3.00	-2.66	3.07
-2.00	5.20	7.47
-1.00	18.03	

2.5. Azimuth pattern for Co-pol (-180°~180°) 3/4

14.25GHz@ -16.2 dBW/ 4kHz

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
0.00	25.10	
1.00	18.12	
2.00	5.45	7.47
3.00	-1.90	3.07
4.00	-9.75	-0.05
5.00	-13.52	-2.47
6.00	-12.10	-4.45
7.00	-11.37	-6.13
8.00	-14.42	-6.00
9.00	-17.51	-6.00
10.00	-30.89	-7.00
11.00	-18.79	-8.03
12.00	-16.75	-8.98
13.00	-29.12	-9.85
14.00	-31.51	-10.65
15.00	-37.20	-11.40
16.00	-52.24	-12.10
17.00	-32.49	-12.76
18.00	-31.70	-13.38
19.00	-33.16	-13.97
20.00	-42.04	-14.53
21.00	-37.66	-15.06
22.00	-41.54	-15.56
23.00	-34.88	-16.04
24.00	-33.99	-16.51
25.00	-42.26	-16.95
26.00	-36.13	-17.37
27.00	-36.71	-17.78
28.00	-41.55	-18.18
29.00	-37.97	-18.56
30.00	-43.29	-18.93
31.00	-36.36	-19.28
32.00	-26.03	-19.63
33.00	-28.64	-19.96
34.00	-38.68	-20.29
35.00	-43.95	-20.60
36.00	-45.83	-20.91
37.00	-33.67	-21.21
38.00	-38.31	-21.49
39.00	-32.00	-21.78
40.00	-34.26	-22.05
41.00	-31.57	-22.32
42.00	-40.40	-22.58
43.00	-42.52	-22.84
44.00	-39.61	-23.09

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
45.00	-32.49	-23.33
46.00	-38.43	-23.57
47.00	-62.40	-23.80
48.00	-39.57	-24.03
49.00	-40.26	-24.00
50.00	-35.14	-24.00
51.00	-56.01	-24.00
52.00	-40.71	-24.00
53.00	-42.31	-24.00
54.00	-33.44	-24.00
55.00	-33.44	-24.00
56.00	-41.01	-24.00
57.00	-37.24	-24.00
58.00	-31.49	-24.00
59.00	-35.30	-24.00
60.00	-35.24	-24.00
61.00	-35.13	-24.00
62.00	-37.54	-24.00
63.00	-33.03	-24.00
64.00	-33.89	-24.00
65.00	-34.23	-24.00
66.00	-34.73	-24.00
67.00	-37.50	-24.00
68.00	-39.70	-24.00
69.00	-35.10	-24.00
70.00	-31.93	-24.00
71.00	-32.63	-24.00
72.00	-30.86	-24.00
73.00	-32.61	-24.00
74.00	-31.17	-24.00
75.00	-30.92	-24.00
76.00	-29.26	-24.00
77.00	-27.26	-24.00
78.00	-25.41	-24.00
79.00	-25.63	-24.00
80.00	-25.02	-24.00
81.00	-24.19	-24.00
82.00	-24.74	-24.00
83.00	-26.99	-24.00
84.00	-26.70	-24.00
85.00	-26.02	-24.00
86.00	-26.48	-14.00
87.00	-29.67	-14.00
88.00	-35.14	-14.00
89.00	-31.20	-14.00

2.6. Azimuth pattern for Co-pol (-180°~180°) 4/4

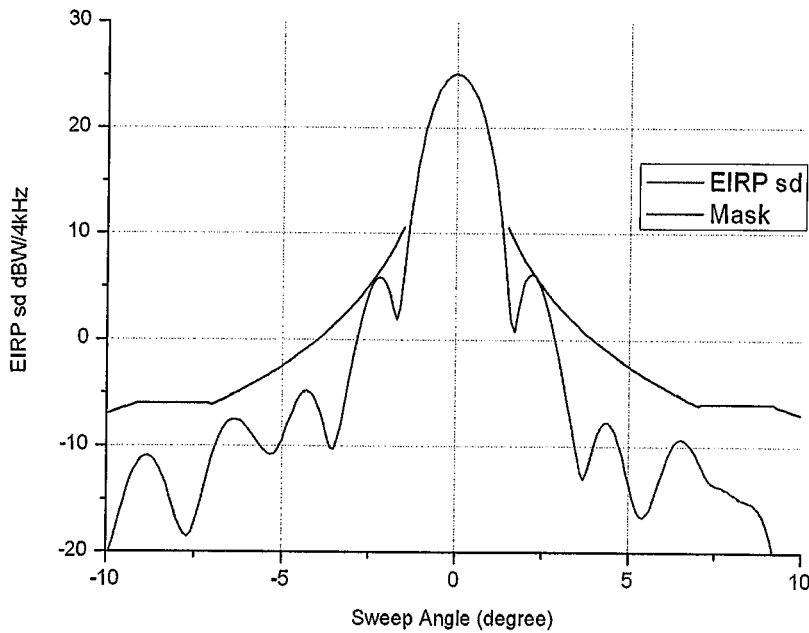
14.25GHz@ -16.2 dBW/ 4kHz

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
90.00	-29.70	-14.00
91.00	-28.59	-14.00
92.00	-31.85	-14.00
93.00	-33.89	-14.00
94.00	-36.44	-14.00
95.00	-40.89	-14.00
96.00	-38.76	-14.00
97.00	-34.79	-14.00
98.00	-34.02	-14.00
99.00	-34.43	-14.00
100.00	-33.54	-14.00
101.00	-31.51	-14.00
102.00	-34.24	-14.00
103.00	-36.22	-14.00
104.00	-36.37	-14.00
105.00	-34.65	-14.00
106.00	-35.00	-14.00
107.00	-38.72	-14.00
108.00	-37.41	-14.00
109.00	-39.87	-14.00
110.00	-40.67	-14.00
111.00	-36.74	-14.00
112.00	-38.88	-14.00
113.00	-48.33	-14.00
114.00	-45.18	-14.00
115.00	-46.73	-14.00
116.00	-37.23	-14.00
117.00	-40.88	-14.00
118.00	-46.48	-14.00
119.00	-54.91	-14.00
120.00	-53.93	-14.00
121.00	-46.31	-14.00
122.00	-39.36	-14.00
123.00	-39.66	-14.00
124.00	-42.92	-14.00
125.00	-58.90	-14.00
126.00	-45.81	-14.00
127.00	-43.50	-14.00
128.00	-37.58	-14.00
129.00	-38.58	-14.00
130.00	-35.93	-14.00
131.00	-38.03	-14.00
132.00	-41.00	-14.00
133.00	-45.15	-14.00
134.00	-41.22	-14.00

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
135.00	-40.44	-14.00
136.00	-49.59	-14.00
137.00	-40.62	-14.00
138.00	-47.40	-14.00
139.00	-34.65	-14.00
140.00	-46.39	-14.00
141.00	-36.82	-14.00
142.00	-38.53	-14.00
143.00	-36.51	-14.00
144.00	-47.04	-14.00
145.00	-38.50	-14.00
146.00	-38.42	-14.00
147.00	-49.51	-14.00
148.00	-40.54	-14.00
149.00	-53.12	-14.00
150.00	-40.85	-14.00
151.00	-46.80	-14.00
152.00	-38.36	-14.00
153.00	-41.13	-14.00
154.00	-47.15	-14.00
155.00	-40.24	-14.00
156.00	-38.24	-14.00
157.00	-46.18	-14.00
158.00	-61.27	-14.00
159.00	-50.44	-14.00
160.00	-42.30	-14.00
161.00	-43.80	-14.00
162.00	-50.34	-14.00
163.00	-41.02	-14.00
164.00	-42.54	-14.00
165.00	-45.40	-14.00
166.00	-49.88	-14.00
167.00	-39.55	-14.00
168.00	-47.78	-14.00
169.00	-41.96	-14.00
170.00	-38.62	-14.00
171.00	-36.18	-14.00
172.00	-42.18	-14.00
173.00	-37.75	-14.00
174.00	-40.72	-14.00
175.00	-40.85	-14.00
176.00	-40.44	-14.00
177.00	-39.43	-14.00
178.00	-36.33	-14.00
179.00	-35.44	-14.00
180.00	-35.62	-14.00

1. EIRP Spectral Density of v110

1.1. Azimuth pattern for Co-pol, narrow angle (-10°~10°)



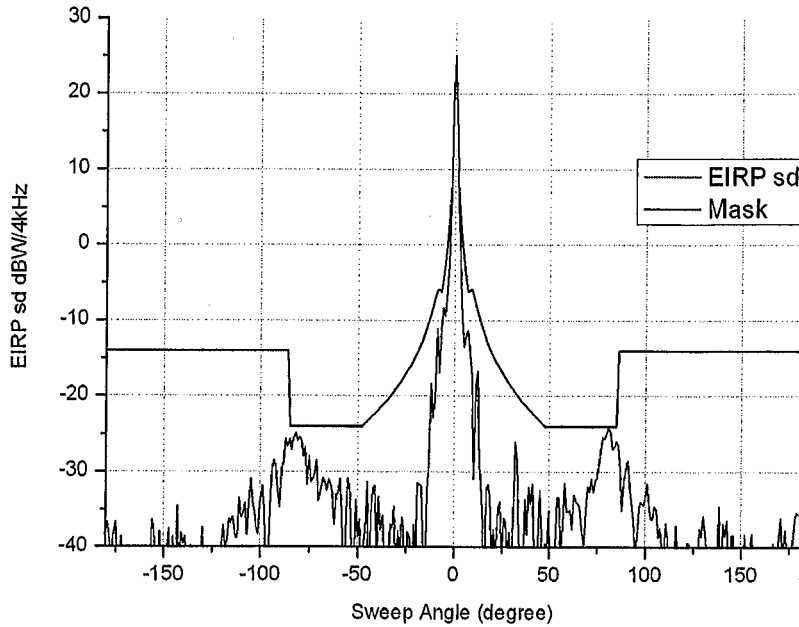
14.25 GHz @ -16.2 dBW/4kHz , 0.7dB Radome Loss

- FCC EIRP spectral density regulation

$15-25\log(\theta)$	dBW/4kHz	for	$1.5^\circ \leq \theta \leq 7.0^\circ$
-6	dBW/4kHz	for	$7.0^\circ < \theta \leq 9.2^\circ$
$18-25\log(\theta)$	dBW/4kHz	for	$9.2^\circ < \theta \leq 48^\circ$
-24	dBW/4kHz	for	$48^\circ < \theta \leq 85^\circ$
-14	dBW/4kHz	for	$85^\circ < \theta \leq 180^\circ$

Radiation pattern meets FCC EIRP spectral density mask @ -16.2 dBW/ 4KHz

1.2. Azimuth pattern for Co-pol, wide angle (-180°~180°)



14.25 GHz @ -16.2 dBW/4kHz , 0.7dB Radome Loss

- FCC EIRP spectral density regulation

$15-25\log(\theta)$	dBW/4kHz	for	$1.5^\circ \leq \theta \leq 7.0^\circ$
-6	dBW/4kHz	for	$7.0^\circ < \theta \leq 9.2^\circ$
$18-25\log(\theta)$	dBW/4kHz	for	$9.2^\circ < \theta \leq 48^\circ$
-24	dBW/4kHz	for	$48^\circ < \theta \leq 85^\circ$
-14	dBW/4kHz	for	$85^\circ < \theta \leq 180^\circ$

Radiation pattern meets FCC EIRP spectral density mask @ -16.2 dBW/ 4KHz

2.9. Elevation pattern for Co-pol (0°~30°) 1/3

14.25GHz@ -16.2 dBW/ 4kHz

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
0.00	25.10	
0.10	24.99	
0.20	24.72	
0.30	24.30	
0.40	23.78	
0.50	23.07	
0.60	22.17	
0.70	21.01	
0.80	19.60	
0.90	18.07	
1.00	16.14	
1.10	13.89	
1.20	10.94	
1.30	6.76	
1.40	0.84	
1.50	-8.81	
1.60	-3.17	
1.70	1.55	
1.80	3.80	
1.90	4.76	
2.00	4.98	
2.10	4.56	
2.20	3.59	
2.30	1.93	
2.40	-0.32	
2.50	-3.42	
2.60	-7.94	
2.70	-13.93	
2.80	-13.64	
2.90	-9.49	
3.00	-7.31	6.07
3.10	-6.45	5.72
3.20	-6.63	5.37
3.30	-7.83	5.04
3.40	-9.98	4.71
3.50	-13.54	4.40
3.60	-17.19	4.09
3.70	-14.54	3.79
3.80	-10.45	3.51
3.90	-7.81	3.22
4.00	-6.10	2.95
4.10	-5.01	2.68
4.20	-4.37	2.42
4.30	-4.16	2.16
4.40	-4.32	1.91
4.50	-4.85	1.67
4.60	-5.81	1.43
4.70	-7.21	1.20
4.80	-8.88	0.97
4.90	-10.70	0.75
5.00	-12.64	0.53

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
5.10	-14.51	0.31
5.20	-16.41	0.10
5.30	-17.96	-0.11
5.40	-19.09	-0.31
5.50	-19.40	-0.51
5.60	-18.27	-0.70
5.70	-16.34	-0.90
5.80	-14.41	-1.09
5.90	-12.67	-1.27
6.00	-11.19	-1.45
6.10	-10.14	-1.63
6.20	-9.25	-1.81
6.30	-8.86	-1.98
6.40	-8.88	-2.15
6.50	-9.21	-2.32
6.60	-9.85	-2.49
6.70	-10.82	-2.65
6.80	-12.02	-2.81
6.90	-13.48	-2.97
7.00	-14.76	-3.13
7.10	-15.30	-3.28
7.20	-14.91	-3.43
7.30	-14.11	-3.58
7.40	-13.40	-3.73
7.50	-13.02	-3.88
7.60	-13.01	-4.02
7.70	-13.27	-4.16
7.80	-13.70	-4.30
7.90	-14.53	-4.44
8.00	-16.13	-4.58
8.10	-18.48	-4.71
8.20	-21.47	-4.85
8.30	-23.65	-4.98
8.40	-23.69	-5.11
8.50	-22.73	-5.24
8.60	-21.70	-5.36
8.70	-20.97	-5.49
8.80	-20.81	-5.61
8.90	-21.35	-5.73
9.00	-22.91	-5.86
9.10	-25.83	-5.98
9.20	-30.21	-6.09
9.30	-37.29	-6.21
9.40	-41.80	-6.33
9.50	-30.27	-6.44
9.60	-25.26	-6.56
9.70	-23.13	-6.67
9.80	-22.50	-6.78
9.90	-22.94	-6.89
10.00	-23.89	-7.00

2.10. Elevation pattern for Co-pol (0°~30°) 2/3

14.25GHz@ -16.2 dBW/ 4kHz

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
10.10	-25.10	-7.11
10.20	-27.27	-7.22
10.30	-29.89	-7.32
10.40	-31.06	-7.43
10.50	-28.99	-7.53
10.60	-26.09	-7.63
10.70	-24.27	-7.73
10.80	-23.29	-7.84
10.90	-22.83	-7.94
11.00	-22.99	-8.03
11.10	-23.60	-8.13
11.20	-25.01	-8.23
11.30	-26.84	-8.33
11.40	-27.79	-8.42
11.50	-26.73	-8.52
11.60	-24.32	-8.61
11.70	-22.16	-8.70
11.80	-20.57	-8.80
11.90	-19.86	-8.89
12.00	-19.72	-8.98
12.10	-19.91	-9.07
12.20	-20.51	-9.16
12.30	-21.47	-9.25
12.40	-23.24	-9.34
12.50	-26.54	-9.42
12.60	-31.26	-9.51
12.70	-32.43	-9.60
12.80	-28.23	-9.68
12.90	-24.50	-9.76
13.00	-22.09	-9.85
13.10	-20.44	-9.93
13.20	-19.42	-10.01
13.30	-19.33	-10.10
13.40	-19.74	-10.18
13.50	-20.34	-10.26
13.60	-21.18	-10.34
13.70	-22.52	-10.42
13.80	-24.46	-10.50
13.90	-27.58	-10.58
14.00	-33.33	-10.65
14.10	-45.69	-10.73
14.20	-44.47	-10.81
14.30	-37.81	-10.88
14.40	-34.71	-10.96
14.50	-32.12	-11.03
14.60	-31.30	-11.11
14.70	-31.65	-11.18
14.80	-32.34	-11.26
14.90	-32.20	-11.33
15.00	-30.36	-11.40

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
15.10	-28.57	-11.47
15.20	-26.43	-11.55
15.30	-24.62	-11.62
15.40	-23.71	-11.69
15.50	-23.63	-11.76
15.60	-23.93	-11.83
15.70	-24.80	-11.90
15.80	-26.11	-11.97
15.90	-27.82	-12.03
16.00	-31.50	-12.10
16.10	-37.71	-12.17
16.20	-45.48	-12.24
16.30	-37.87	-12.30
16.40	-32.93	-12.37
16.50	-29.45	-12.44
16.60	-27.55	-12.50
16.70	-26.75	-12.57
16.80	-26.85	-12.63
16.90	-28.35	-12.70
17.00	-31.28	-12.76
17.10	-34.34	-12.82
17.20	-34.04	-12.89
17.30	-32.70	-12.95
17.40	-30.89	-13.01
17.50	-28.10	-13.08
17.60	-25.68	-13.14
17.70	-23.85	-13.20
17.80	-22.75	-13.26
17.90	-22.26	-13.32
18.00	-22.37	-13.38
18.10	-22.76	-13.44
18.20	-23.24	-13.50
18.30	-23.62	-13.56
18.40	-24.01	-13.62
18.50	-24.29	-13.68
18.60	-24.28	-13.74
18.70	-24.26	-13.80
18.80	-23.94	-13.85
18.90	-23.47	-13.91
19.00	-23.49	-13.97
19.10	-24.07	-14.03
19.20	-24.62	-14.08
19.30	-25.13	-14.14
19.40	-25.81	-14.20
19.50	-27.18	-14.25
19.60	-30.00	-14.31
19.70	-35.60	-14.36
19.80	-53.51	-14.42
19.90	-37.20	-14.47
20.00	-32.94	-14.53

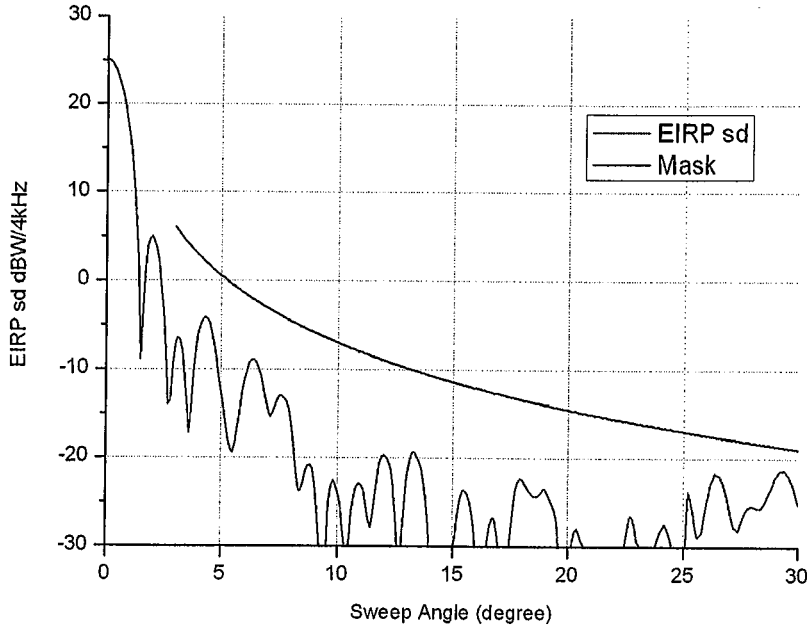
2.11. Elevation pattern for Co-pol (0°~30°) 3/3

14.25GHz@ -16.2 dBW/ 4kHz

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
20.10	-30.99	-14.58
20.20	-29.55	-14.63
20.30	-28.26	-14.69
20.40	-27.97	-14.74
20.50	-28.46	-14.79
20.60	-29.38	-14.85
20.70	-29.97	-14.90
20.80	-30.49	-14.95
20.90	-31.77	-15.00
21.00	-34.62	-15.06
21.10	-38.64	-15.11
21.20	-36.16	-15.16
21.30	-33.26	-15.21
21.40	-32.48	-15.26
21.50	-32.72	-15.31
21.60	-33.13	-15.36
21.70	-33.45	-15.41
21.80	-34.64	-15.46
21.90	-35.35	-15.51
22.00	-35.61	-15.56
22.10	-33.95	-15.61
22.20	-32.44	-15.66
22.30	-31.52	-15.71
22.40	-31.03	-15.76
22.50	-29.30	-15.80
22.60	-27.54	-15.85
22.70	-26.57	-15.90
22.80	-26.71	-15.95
22.90	-27.82	-16.00
23.00	-29.30	-16.04
23.10	-29.83	-16.09
23.20	-30.86	-16.14
23.30	-32.71	-16.18
23.40	-33.45	-16.23
23.50	-32.62	-16.28
23.60	-31.77	-16.32
23.70	-30.91	-16.37
23.80	-29.81	-16.41
23.90	-28.84	-16.46
24.00	-28.29	-16.51
24.10	-27.71	-16.55
24.20	-27.43	-16.60
24.30	-27.98	-16.64
24.40	-28.89	-16.68
24.50	-30.07	-16.73
24.60	-31.68	-16.77
24.70	-33.19	-16.82
24.80	-34.69	-16.86
24.90	-35.73	-16.90
25.00	-36.18	-16.95

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
25.10	-27.95	-16.99
25.20	-23.79	-17.04
25.30	-24.88	-17.08
25.40	-26.08	-17.12
25.50	-27.37	-17.16
25.60	-28.86	-17.21
25.70	-28.65	-17.25
25.80	-28.42	-17.29
25.90	-26.62	-17.33
26.00	-25.11	-17.37
26.10	-23.94	-17.42
26.20	-22.89	-17.46
26.30	-22.28	-17.50
26.40	-21.70	-17.54
26.50	-21.82	-17.58
26.60	-21.93	-17.62
26.70	-22.53	-17.66
26.80	-23.17	-17.70
26.90	-24.37	-17.74
27.00	-25.75	-17.78
27.10	-26.70	-17.82
27.20	-27.77	-17.86
27.30	-27.93	-17.90
27.40	-28.09	-17.94
27.50	-27.32	-17.98
27.60	-26.60	-18.02
27.70	-26.09	-18.06
27.80	-25.61	-18.10
27.90	-25.47	-18.14
28.00	-25.34	-18.18
28.10	-25.46	-18.22
28.20	-25.58	-18.26
28.30	-25.60	-18.29
28.40	-25.62	-18.33
28.50	-25.17	-18.37
28.60	-24.74	-18.41
28.70	-24.07	-18.45
28.80	-23.44	-18.48
28.90	-22.76	-18.52
29.00	-22.13	-18.56
29.10	-21.75	-18.60
29.20	-21.39	-18.63
29.30	-21.36	-18.67
29.40	-21.32	-18.71
29.50	-21.63	-18.75
29.60	-21.95	-18.78
29.70	-22.57	-18.82
29.80	-23.24	-18.86
29.90	-24.15	-18.89
30.00	-25.16	-18.93

1.4. Elevation pattern for Co-pol, narrow angle (0°~30°)



14.25 GHz @ -16.2 dBW/4kHz , 0.7dB Radome Loss

- FCC EIRP spectral density regulation

$18-25\log(\theta)$	dBW/4kHz	for	$3.0^\circ \leq \theta \leq 48^\circ$
-24	dBW/4kHz	for	$48^\circ < \theta \leq 85^\circ$
-14	dBW/4kHz	for	$85^\circ < \theta \leq 180^\circ$

Radiation pattern meets FCC EIRP spectral density mask @ -16.2 dBW/ 4KHz

Exhibit
13

2.7. Azimuth pattern for Cross-pol, (-10°~10°) 1/2

14.25GHz@ -16.2 dBW/ 4kHz

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-10.00	-20.59	-7.00
-9.90	-19.66	-6.89
-9.80	-18.73	-6.78
-9.70	-17.29	-6.67
-9.60	-16.18	-6.56
-9.50	-15.00	-6.44
-9.40	-13.82	-6.33
-9.30	-12.77	-6.21
-9.20	-12.13	-6.09
-9.10	-11.59	-5.98
-9.00	-11.16	-6.00
-8.90	-10.96	-6.00
-8.80	-10.94	-6.00
-8.70	-11.10	-6.00
-8.60	-11.47	-6.00
-8.50	-12.09	-6.00
-8.40	-12.78	-6.00
-8.30	-13.60	-6.00
-8.20	-14.76	-6.00
-8.10	-15.79	-6.00
-8.00	-16.92	-6.00
-7.90	-17.72	-6.00
-7.80	-18.27	-6.00
-7.70	-18.46	-6.00
-7.60	-18.19	-6.00
-7.50	-17.32	-6.00
-7.40	-16.33	-6.00
-7.30	-15.07	-6.00
-7.20	-13.51	-6.00
-7.10	-12.28	-6.00
-7.00	-10.95	-6.13
-6.90	-10.04	-5.97
-6.80	-9.07	-5.81
-6.70	-8.46	-5.65
-6.60	-7.93	-5.49
-6.50	-7.62	-5.32
-6.40	-7.52	-5.15
-6.30	-7.50	-4.98
-6.20	-7.64	-4.81
-6.10	-7.89	-4.63
-6.00	-8.31	-4.45
-5.90	-8.71	-4.27
-5.80	-9.20	-4.09
-5.70	-9.61	-3.90
-5.60	-10.11	-3.70
-5.50	-10.43	-3.51
-5.40	-10.75	-3.31
-5.30	-10.81	-3.11
-5.20	-10.65	-2.90
-5.10	-10.14	-2.69

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-5.00	-9.44	-2.47
-4.90	-8.42	-2.25
-4.80	-7.58	-2.03
-4.70	-6.76	-1.80
-4.60	-5.92	-1.57
-4.50	-5.38	-1.33
-4.40	-4.96	-1.09
-4.30	-4.85	-0.84
-4.20	-4.98	-0.58
-4.10	-5.30	-0.32
-4.00	-6.04	-0.05
-3.90	-6.89	0.22
-3.80	-7.95	0.51
-3.70	-9.23	0.79
-3.60	-10.17	1.09
-3.50	-10.24	1.40
-3.40	-9.21	1.71
-3.30	-7.87	2.04
-3.20	-6.15	2.37
-3.10	-4.21	2.72
-3.00	-2.64	3.07
-2.90	-0.86	3.44
-2.80	0.56	3.82
-2.70	2.10	4.22
-2.60	3.21	4.63
-2.50	4.35	5.05
-2.40	5.11	5.49
-2.30	5.67	5.96
-2.20	5.87	6.44
-2.10	5.73	6.94
-2.00	5.22	7.47
-1.90	4.34	8.03
-1.80	2.79	8.62
-1.70	1.91	9.24
-1.60	3.03	9.90
-1.50	6.01	10.60
-1.40	9.54	
-1.30	12.10	
-1.20	14.28	
-1.10	16.46	
-1.00	18.05	
-0.90	19.68	
-0.80	20.86	
-0.70	22.00	
-0.60	22.79	
-0.50	23.58	
-0.40	24.10	
-0.30	24.58	
-0.20	24.88	
-0.10	25.07	

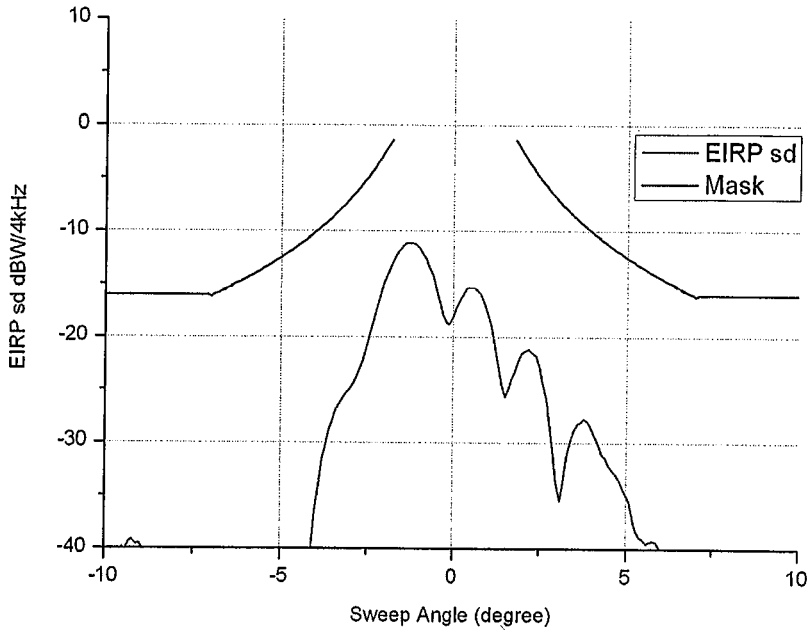
2.8. Azimuth pattern for Cross-pol, (-10°~10°) 2/2

14.25GHz@ -16.2 dBW/ 4kHz

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
0.00	25.12	
0.10	25.06	
0.20	24.85	
0.30	24.57	
0.40	24.07	
0.50	23.55	
0.60	22.90	
0.70	21.93	
0.80	20.94	
0.90	19.57	
1.00	18.14	
1.10	16.26	
1.20	14.28	
1.30	11.53	
1.40	8.67	
1.50	4.63	10.60
1.60	1.64	9.90
1.70	0.77	9.24
1.80	2.56	8.62
1.90	4.22	8.03
2.00	5.47	7.47
2.10	5.99	6.94
2.20	6.14	6.44
2.30	5.95	5.96
2.40	5.34	5.49
2.50	4.61	5.05
2.60	3.67	4.63
2.70	2.33	4.22
2.80	1.16	3.82
2.90	-0.49	3.44
3.00	-1.88	3.07
3.10	-3.70	2.72
3.20	-5.35	2.37
3.30	-7.22	2.04
3.40	-8.83	1.71
3.50	-10.66	1.40
3.60	-12.36	1.09
3.70	-13.05	0.79
3.80	-12.36	0.51
3.90	-11.16	0.22
4.00	-9.73	-0.05
4.10	-8.75	-0.32
4.20	-8.12	-0.58
4.30	-7.77	-0.84
4.40	-7.75	-1.09
4.50	-8.12	-1.33
4.60	-8.64	-1.57
4.70	-9.66	-1.80
4.80	-10.72	-2.03
4.90	-12.19	-2.25

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
5.00	-13.50	-2.47
5.10	-14.75	-2.69
5.20	-15.90	-2.90
5.30	-16.48	-3.11
5.40	-16.67	-3.31
5.50	-16.37	-3.51
5.60	-15.92	-3.70
5.70	-15.07	-3.90
5.80	-14.02	-4.09
5.90	-13.07	-4.27
6.00	-12.08	-4.45
6.10	-11.07	-4.63
6.20	-10.36	-4.81
6.30	-9.77	-4.98
6.40	-9.47	-5.15
6.50	-9.34	-5.32
6.60	-9.40	-5.49
6.70	-9.69	-5.65
6.80	-10.09	-5.81
6.90	-10.69	-5.97
7.00	-11.35	-6.13
7.10	-11.94	-6.00
7.20	-12.64	-6.00
7.30	-13.14	-6.00
7.40	-13.44	-6.00
7.50	-13.63	-6.00
7.60	-13.77	-6.00
7.70	-13.84	-6.00
7.80	-13.98	-6.00
7.90	-14.13	-6.00
8.00	-14.40	-6.00
8.10	-14.61	-6.00
8.20	-14.86	-6.00
8.30	-14.99	-6.00
8.40	-15.11	-6.00
8.50	-15.21	-6.00
8.60	-15.37	-6.00
8.70	-15.66	-6.00
8.80	-16.05	-6.00
8.90	-16.70	-6.00
9.00	-17.49	-6.00
9.10	-18.70	-6.00
9.20	-20.04	-6.00
9.30	-22.04	-6.21
9.40	-23.91	-6.33
9.50	-26.65	-6.44
9.60	-29.15	-6.56
9.70	-31.08	-6.67
9.80	-31.66	-6.78
9.90	-31.69	-6.89
10.00	-30.87	-7.00

1.3. Azimuth pattern for Cross-pol, narrow angle (-10°~10°)



14.25 GHz @ -16.2 dBW/4kHz , 0.7dB Radome Loss

- FCC EIRP spectral density regulation

$5-25\log(\theta)$	dBW/4kHz	for	$1.8^\circ \leq \theta \leq 7.0^\circ$
-16	dBW/4kHz	for	$7.0^\circ < \theta \leq 9.2^\circ$

Radiation pattern meets FCC EIRP spectral density mask @ -16.2 dBW/ 4KHz