

## **EXHIBITS 2 THROUGH 7**

### **25.221(b)(1)(i) Tables for Antennas**

**Exhibits 2, 3 and 4 are the 25.221(b)(1)(i) tables for the 2.4 meter Sea Tel model 9707/9797/9711 C-band antennas and the C-band side of the Sea Tel model 9711 QOR antenna**

**Exhibits 5, 6 and 7 are the 25.221(b)(1)(i) tables for the 2.4 meter Intellian model v240 C-band antenna**

(A)

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# Cobham SATCOM, SeaTel Products

2.4m (Offset) EIRPsd Data Table

Azimuth Co-Pol 6.04GHz @ -7dBW/4KHz Radome Loss 0.25dB

Angle	EIRPsd	Mask
Degrees	dBW/4KHz	dBW/4KHz
-179.0	-32.4	-14.0
-178.0	-37.2	-14.0
-177.0	-30.2	-14.0
-176.0	-26.1	-14.0
-175.0	-23.8	-14.0
-174.0	-25.3	-14.0
-173.0	-23.1	-14.0
-172.0	-21.0	-14.0
-171.0	-19.4	-14.0
-170.0	-17.4	-14.0
-169.0	-18.6	-14.0
-168.0	-15.3	-14.0
-167.0	-19.2	-14.0
-166.0	-15.6	-14.0
-165.0	-20.5	-14.0
-164.0	-19.7	-14.0
-163.0	-15.2	-14.0
-162.0	-16.1	-14.0
-161.0	-13.8	-14.0
-160.0	-16.4	-14.0
-159.0	-18.3	-14.0
-158.0	-22.6	-14.0
-157.0	-19.6	-14.0
-156.0	-21.1	-14.0
-155.0	-20.7	-14.0
-154.0	-22.4	-14.0
-153.0	-20.3	-14.0
-152.0	-18.8	-14.0
-151.0	-17.8	-14.0
-150.0	-20.2	-14.0
-149.0	-22.0	-14.0
-148.0	-19.4	-14.0
-147.0	-17.2	-14.0
-146.0	-15.4	-14.0
-145.0	-14.7	-14.0
-144.0	-13.6	-14.0
-143.0	-13.2	-14.0
-142.0	-13.5	-14.0
-141.0	-13.9	-14.0
-140.0	-14.4	-14.0
-139.0	-14.6	-14.0

Angle	EIRPsd	Mask
Degrees	dBW/4KHz	dBW/4KHz
0.0	34.0	
0.1	34.0	
0.2	33.7	
0.3	33.4	
0.4	32.8	
0.5	32.2	
0.6	31.4	
0.7	30.5	
0.8	29.3	
0.9	28.0	
1.0	26.5	
1.1	24.8	
1.2	22.8	
1.3	20.7	
1.4	18.4	
1.5	15.9	
1.6	13.3	21.2
1.7	10.7	20.5
1.8	8.2	19.9
1.9	5.2	19.3
2.0	2.5	18.8
2.1	-0.1	18.2
2.2	-2.1	17.7
2.3	-2.3	17.3
2.4	-1.0	16.8
2.5	0.3	16.4
2.6	0.9	15.9
2.7	0.8	15.5
2.8	0.0	15.1
2.9	-1.3	14.7
3.0	-3.9	14.4
3.1	-7.9	14.0
3.2	-11.4	13.7
3.3	-8.8	13.3
3.4	-5.4	13.0
3.5	-2.9	12.7
3.6	-1.7	12.4
3.7	-1.2	12.1
3.8	-1.2	11.8
3.9	-1.9	11.5
4.0	-3.1	11.3

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-138.0	-15.0	-14.0
-137.0	-16.8	-14.0
-136.0	-16.2	-14.0
-135.0	-16.4	-14.0
-134.0	-16.7	-14.0
-133.0	-16.9	-14.0
-132.0	-17.1	-14.0
-131.0	-17.6	-14.0
-130.0	-15.2	-14.0
-129.0	-14.0	-14.0
-128.0	-13.0	-14.0
-127.0	-13.2	-14.0
-126.0	-13.9	-14.0
-125.0	-13.3	-14.0
-124.0	-13.5	-14.0
-123.0	-12.8	-14.0
-122.0	-12.3	-14.0
-121.0	-11.8	-14.0
-120.0	-12.9	-14.0
-119.0	-13.9	-14.0
-118.0	-17.4	-14.0
-117.0	-18.3	-14.0
-116.0	-15.5	-14.0
-115.0	-14.5	-14.0
-114.0	-17.6	-14.0
-113.0	-18.5	-14.0
-112.0	-17.3	-14.0
-111.0	-18.6	-14.0
-110.0	-19.6	-14.0
-109.0	-18.5	-14.0
-108.0	-20.6	-14.0
-107.0	-21.9	-14.0
-106.0	-18.9	-14.0
-105.0	-19.2	-14.0
-104.0	-20.5	-14.0
-103.0	-20.7	-14.0
-102.0	-21.2	-14.0
-101.0	-21.7	-14.0
-100.0	-21.6	-14.0
-99.0	-23.7	-14.0
-98.0	-27.3	-14.0
-97.0	-28.6	-14.0
-96.0	-28.6	-14.0
-95.0	-25.3	-14.0
-94.0	-23.9	-14.0
-93.0	-22.6	-14.0
-92.0	-21.7	-14.0

4.1	-4.8	11.0
4.2	-7.1	10.7
4.3	-10.5	10.5
4.4	-15.2	10.2
4.5	-21.4	10.0
4.6	-24.3	9.7
4.7	-19.1	9.5
4.8	-15.5	9.3
4.9	-12.8	9.0
5.0	-10.5	8.8
5.1	-8.4	8.6
5.2	-6.9	8.4
5.3	-5.8	8.2
5.4	-5.0	8.0
5.5	-4.6	7.8
5.6	-4.6	7.6
5.7	-4.9	7.4
5.8	-5.5	7.2
5.9	-6.6	7.0
6.0	-8.0	6.8
6.1	-9.5	6.7
6.2	-10.9	6.5
6.3	-12.1	6.3
6.4	-12.5	6.1
6.5	-12.5	6.0
6.6	-12.4	5.8
6.7	-12.5	5.6
6.8	-12.9	5.5
6.9	-13.7	5.3
7.0	-14.7	5.2
7.1	-15.7	5.3
7.2	-16.0	5.3
7.3	-15.3	5.3
7.4	-14.1	5.3
7.5	-12.7	5.3
7.6	-11.3	5.3
7.7	-10.3	5.3
7.8	-9.4	5.3
7.9	-8.8	5.3
8.0	-8.4	5.3
8.1	-8.2	5.3
8.2	-8.3	5.3
8.3	-8.7	5.3
8.4	-9.3	5.3
8.5	-10.1	5.3
8.6	-11.1	5.3
8.7	-12.2	5.3

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-91.0	-21.4	-14.0
-90.0	-21.8	-14.0
-89.0	-24.7	-14.0
-88.0	-26.2	-14.0
-87.0	-26.6	-14.0
-86.0	-26.2	-14.0
-85.0	-23.5	-14.0
-84.0	-27.9	-14.0
-83.0	-37.8	-14.0
-82.0	-42.3	-14.0
-81.0	-38.5	-14.0
-80.0	-39.9	-14.0
-79.0	-30.3	-14.0
-78.0	-32.2	-14.0
-77.0	-31.4	-14.0
-76.0	-34.6	-14.0
-75.0	-29.7	-14.0
-74.0	-27.9	-14.0
-73.0	-26.2	-14.0
-72.0	-23.9	-14.0
-71.0	-23.5	-14.0
-70.0	-27.7	-14.0
-69.0	-32.2	-14.0
-68.0	-32.3	-14.0
-67.0	-27.6	-14.0
-66.0	-37.1	-14.0
-65.0	-24.4	-14.0
-64.0	-25.4	-14.0
-63.0	-30.5	-14.0
-62.0	-30.2	-14.0
-61.0	-40.9	-14.0
-60.0	-27.3	-14.0
-59.0	-21.0	-14.0
-58.0	-20.8	-14.0
-57.0	-23.4	-14.0
-56.0	-24.2	-14.0
-55.0	-30.9	-14.0
-54.0	-26.5	-14.0
-53.0	-27.8	-14.0
-52.0	-24.8	-14.0
-51.0	-21.4	-14.0
-50.0	-24.7	-14.0
-49.0	-27.7	-14.0
-48.0	-20.4	-12.7
-47.0	-21.3	-12.5
-46.0	-29.6	-12.3
-45.0	-27.4	-12.0

8.8	-13.2	5.3
8.9	-13.7	5.3
9.0	-13.9	5.3
9.1	-14.0	5.3
9.2	-14.2	5.3
9.3	-14.7	5.1
9.4	-15.7	5.0
9.5	-17.4	4.9
9.6	-19.5	4.7
9.7	-21.8	4.6
9.8	-21.2	4.5
9.9	-18.7	4.4
10.0	-16.2	4.3
11.0	-15.6	3.3
12.0	-16.6	2.3
13.0	-24.7	1.5
14.0	-29.8	0.6
15.0	-20.1	-0.1
16.0	-17.8	-0.8
17.0	-20.8	-1.5
18.0	-20.5	-2.1
19.0	-21.9	-2.7
20.0	-24.8	-3.2
21.0	-34.4	-3.8
22.0	-28.6	-4.3
23.0	-28.8	-4.7
24.0	-28.8	-5.2
25.0	-26.2	-5.6
26.0	-25.0	-6.1
27.0	-22.5	-6.5
28.0	-22.5	-6.9
29.0	-23.5	-7.3
30.0	-23.4	-7.6
31.0	-21.6	-8.0
32.0	-20.3	-8.3
33.0	-21.1	-8.7
34.0	-23.0	-9.0
35.0	-27.0	-9.3
36.0	-31.8	-9.6
37.0	-36.0	-9.9
38.0	-29.0	-10.2
39.0	-26.0	-10.5
40.0	-20.0	-10.7
41.0	-20.0	-11.0
42.0	-18.2	-11.3
43.0	-21.9	-11.5
44.0	-23.0	-11.8

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-44.0	-33.5	-11.8
-43.0	-29.5	-11.5
-42.0	-25.5	-11.3
-41.0	-22.5	-11.0
-40.0	-27.6	-10.7
-39.0	-28.4	-10.5
-38.0	-22.8	-10.2
-37.0	-21.9	-9.9
-36.0	-22.2	-9.6
-35.0	-19.4	-9.3
-34.0	-21.4	-9.0
-33.0	-18.7	-8.7
-32.0	-19.9	-8.3
-31.0	-21.9	-8.0
-30.0	-21.5	-7.6
-29.0	-23.7	-7.3
-28.0	-30.3	-6.9
-27.0	-24.0	-6.5
-26.0	-23.9	-6.1
-25.0	-28.0	-5.6
-24.0	-23.4	-5.2
-23.0	-26.8	-4.7
-22.0	-26.9	-4.3
-21.0	-36.7	-3.8
-20.0	-31.1	-3.2
-19.0	-18.1	-2.7
-18.0	-17.5	-2.1
-17.0	-20.6	-1.5
-16.0	-19.5	-0.8
-15.0	-23.9	-0.1
-14.0	-21.8	0.6
-13.0	-13.7	1.5
-12.0	-15.2	2.3
-11.0	-13.2	3.3
-10.0	-14.6	4.3
-9.9	-14.4	4.4
-9.8	-14.2	4.5
-9.7	-14.1	4.6
-9.6	-14.2	4.7
-9.5	-14.4	4.9
-9.4	-15.0	5.0
-9.3	-16.1	5.1
-9.2	-17.9	5.3
-9.1	-20.6	5.3
-9.0	-24.5	5.3
-8.9	-27.0	5.3
-8.8	-23.0	5.3

45.0	-22.0	-12.0
46.0	-22.7	-12.3
47.0	-24.9	-12.5
48.0	-29.5	-12.7
49.0	-22.3	-14.0
50.0	-24.9	-14.0
51.0	-28.6	-14.0
52.0	-21.8	-14.0
53.0	-22.2	-14.0
54.0	-23.5	-14.0
55.0	-22.3	-14.0
56.0	-26.9	-14.0
57.0	-43.0	-14.0
58.0	-24.2	-14.0
59.0	-22.1	-14.0
60.0	-39.8	-14.0
61.0	-31.9	-14.0
62.0	-34.5	-14.0
63.0	-29.5	-14.0
64.0	-23.3	-14.0
65.0	-29.4	-14.0
66.0	-30.8	-14.0
67.0	-28.4	-14.0
68.0	-30.2	-14.0
69.0	-29.4	-14.0
70.0	-33.8	-14.0
71.0	-29.3	-14.0
72.0	-22.0	-14.0
73.0	-23.9	-14.0
74.0	-26.1	-14.0
75.0	-32.1	-14.0
76.0	-33.5	-14.0
77.0	-28.1	-14.0
78.0	-27.0	-14.0
79.0	-32.7	-14.0
80.0	-33.5	-14.0
81.0	-27.9	-14.0
82.0	-32.0	-14.0
83.0	-36.5	-14.0
84.0	-44.1	-14.0
85.0	-27.0	-14.0
86.0	-26.1	-14.0
87.0	-28.7	-14.0
88.0	-27.7	-14.0
89.0	-25.8	-14.0
90.0	-28.7	-14.0
91.0	-27.8	-14.0

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-8.7	-19.4	5.3
-8.6	-17.2	5.3
-8.5	-16.0	5.3
-8.4	-15.5	5.3
-8.3	-15.7	5.3
-8.2	-16.5	5.3
-8.1	-17.9	5.3
-8.0	-19.9	5.3
-7.9	-21.0	5.3
-7.8	-20.2	5.3
-7.7	-18.0	5.3
-7.6	-16.2	5.3
-7.5	-15.1	5.3
-7.4	-14.5	5.3
-7.3	-14.5	5.3
-7.2	-14.7	5.3
-7.1	-15.5	5.3
-7.0	-16.6	5.2
-6.9	-17.9	5.3
-6.8	-19.2	5.5
-6.7	-21.0	5.6
-6.6	-22.9	5.8
-6.5	-24.4	6.0
-6.4	-23.1	6.1
-6.3	-19.5	6.3
-6.2	-16.1	6.5
-6.1	-13.3	6.7
-6.0	-11.2	6.8
-5.9	-9.5	7.0
-5.8	-8.4	7.2
-5.7	-7.9	7.4
-5.6	-7.9	7.6
-5.5	-8.5	7.8
-5.4	-9.6	8.0
-5.3	-11.4	8.2
-5.2	-14.0	8.4
-5.1	-17.4	8.6
-5.0	-17.9	8.8
-4.9	-15.7	9.0
-4.8	-13.8	9.3
-4.7	-12.9	9.5
-4.6	-13.5	9.7
-4.5	-15.6	10.0
-4.4	-20.4	10.2
-4.3	-20.5	10.5
-4.2	-14.3	10.7
-4.1	-9.7	11.0

92.0	-26.7	-14.0
93.0	-23.6	-14.0
94.0	-22.5	-14.0
95.0	-21.9	-14.0
96.0	-23.3	-14.0
97.0	-23.3	-14.0
98.0	-24.0	-14.0
99.0	-23.9	-14.0
100.0	-27.9	-14.0
101.0	-25.4	-14.0
102.0	-20.3	-14.0
103.0	-18.7	-14.0
104.0	-18.4	-14.0
105.0	-16.6	-14.0
106.0	-16.7	-14.0
107.0	-16.7	-14.0
108.0	-16.7	-14.0
109.0	-16.2	-14.0
110.0	-18.3	-14.0
111.0	-18.6	-14.0
112.0	-16.7	-14.0
113.0	-16.1	-14.0
114.0	-16.5	-14.0
115.0	-16.3	-14.0
116.0	-15.9	-14.0
117.0	-14.7	-14.0
118.0	-15.1	-14.0
119.0	-15.9	-14.0
120.0	-16.4	-14.0
121.0	-15.5	-14.0
122.0	-16.5	-14.0
123.0	-17.3	-14.0
124.0	-16.3	-14.0
125.0	-15.9	-14.0
126.0	-16.5	-14.0
127.0	-16.4	-14.0
128.0	-15.3	-14.0
129.0	-16.0	-14.0
130.0	-16.2	-14.0
131.0	-16.4	-14.0
132.0	-15.7	-14.0
133.0	-15.8	-14.0
134.0	-16.4	-14.0
135.0	-15.6	-14.0
136.0	-16.1	-14.0
137.0	-16.0	-14.0
138.0	-16.1	-14.0

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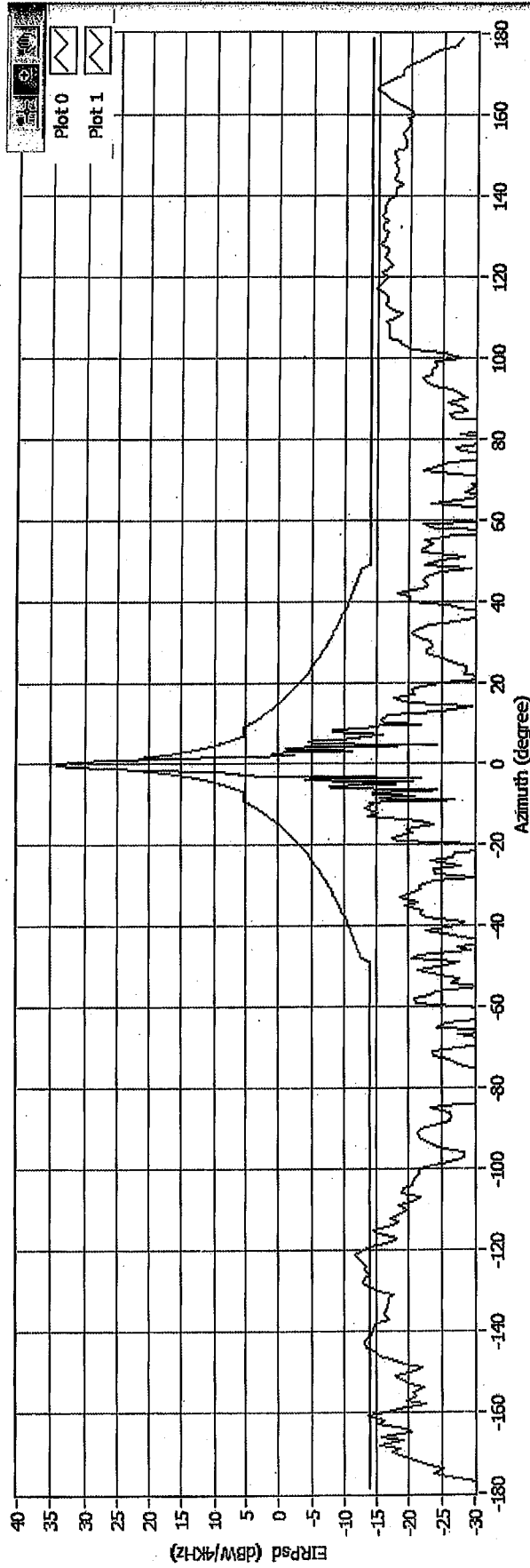
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-4.0	-6.7	11.3
-3.9	-5.0	11.5
-3.8	-4.1	11.8
-3.7	-4.2	12.1
-3.6	-5.2	12.4
-3.5	-7.6	12.7
-3.4	-13.6	13.0
-3.3	-21.8	13.3
-3.2	-8.6	13.7
-3.1	-3.1	14.0
-3.0	0.4	14.4
-2.9	2.7	14.7
-2.8	4.2	15.1
-2.7	5.1	15.5
-2.6	5.7	15.9
-2.5	5.9	16.4
-2.4	6.1	16.8
-2.3	6.1	17.3
-2.2	6.4	17.7
-2.1	7.2	18.2
-2.0	8.6	18.8
-1.9	10.4	19.3
-1.8	12.3	19.9
-1.7	14.3	20.5
-1.6	16.5	21.2
-1.5	18.4	
-1.4	20.5	
-1.3	22.4	
-1.2	24.2	
-1.1	25.8	
-1.0	27.3	
-0.9	28.7	
-0.8	29.9	
-0.7	30.9	
-0.6	31.8	
-0.5	32.4	
-0.4	33.0	
-0.3	33.5	
-0.2	33.8	
-0.1	34.0	

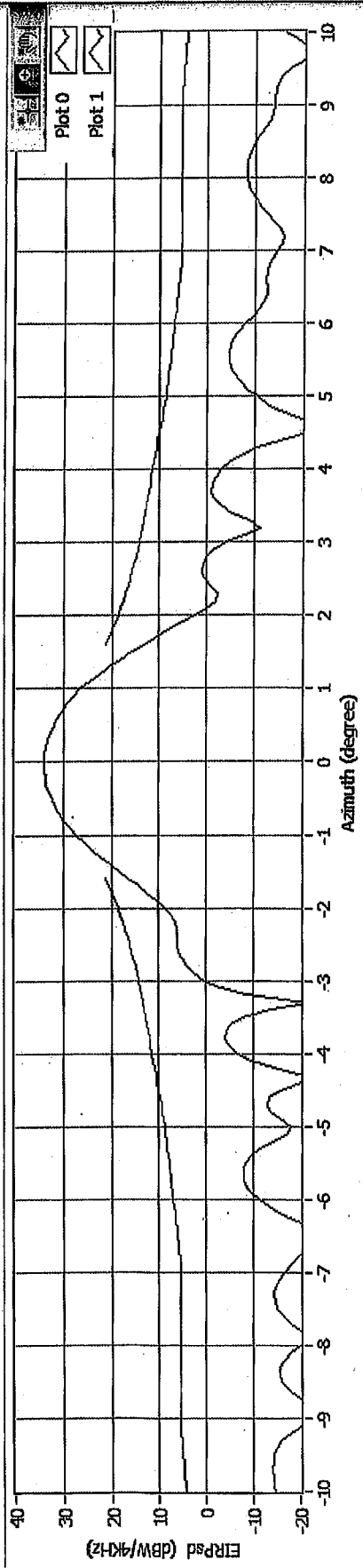
139.0	-16.4	-14.0
140.0	-17.6	-14.0
141.0	-17.6	-14.0
142.0	-17.7	-14.0
143.0	-18.6	-14.0
144.0	-17.6	-14.0
145.0	-17.7	-14.0
146.0	-18.0	-14.0
147.0	-17.9	-14.0
148.0	-17.4	-14.0
149.0	-18.0	-14.0
150.0	-17.3	-14.0
151.0	-17.5	-14.0
152.0	-19.3	-14.0
153.0	-19.3	-14.0
154.0	-19.2	-14.0
155.0	-18.6	-14.0
156.0	-18.8	-14.0
157.0	-19.8	-14.0
158.0	-19.8	-14.0
159.0	-19.5	-14.0
160.0	-20.5	-14.0
161.0	-20.2	-14.0
162.0	-18.8	-14.0
163.0	-17.8	-14.0
164.0	-16.3	-14.0
165.0	-15.9	-14.0
166.0	-14.7	-14.0
167.0	-15.1	-14.0
168.0	-16.3	-14.0
169.0	-17.1	-14.0
170.0	-18.6	-14.0
171.0	-18.6	-14.0
172.0	-19.2	-14.0
173.0	-20.9	-14.0
174.0	-22.1	-14.0
175.0	-23.0	-14.0
176.0	-24.3	-14.0
177.0	-27.1	-14.0
178.0	-27.2	-14.0
179.0	-27.8	-14.0

(A)

# 6040 MHz Azimuth VV Pin=-7.0 (dBW/4KHz) Radome Loss 0.25dB



2



Source File	Freq(MHz)	Scan	Pol	EIRPsd	Over%	a=	a=7	7~9.2	9.2~48	48~180
M:\TestData\ DataBase\9797_2006_LoopCanyon_FCC\6040_AZ_VV.ssa	6040	AZ	VV	34.05	4.02	1.50	0.00	0.00	0.00	2.18



(B)

3

# Cobham SATCOM, SeaTel Products

2.4m (Offset) EIRPsd Data Table

Elevation Co-Pol 6.04GHz @ -7dBW/4KHz Radome Loss 0.25dB

Angle Degrees	EIRPsd dBW/4KHz	Mask dBW/4KHz
0.0	34.1	
0.1	34.0	
0.2	33.9	
0.3	33.6	
0.4	33.3	
0.5	32.9	
0.6	32.3	
0.7	31.7	
0.8	30.9	
0.9	30.1	
1.0	29.1	
1.1	28.0	
1.2	26.7	
1.3	25.3	
1.4	23.9	
1.5	22.0	
1.6	20.1	21.2
1.7	18.7	20.5
1.8	17.2	19.9
1.9	16.4	19.3
2.0	15.9	18.8
2.1	15.7	18.2
2.2	15.5	17.7
2.3	15.2	17.3
2.4	14.8	16.8
2.5	14.1	16.4
2.6	12.9	15.9
2.7	11.5	15.5
2.8	9.4	15.1
2.9	7.2	14.7
3.0	3.3	14.4
3.1	-1.2	14.0
3.2	-2.0	13.7
3.3	1.9	13.3
3.4	4.3	13.0
3.5	6.2	12.7
3.6	7.5	12.4
3.7	7.9	12.1
3.8	8.1	11.8
3.9	7.8	11.5
4.0	7.3	11.3

(B)

3

4.1	6.1	11.0
4.2	4.5	10.7
4.3	2.8	10.5
4.4	0.3	10.2
4.5	-2.3	10.0
4.6	-3.1	9.7
4.7	-1.7	9.5
4.8	0.5	9.3
4.9	2.1	9.0
5.0	3.3	8.8
5.1	4.0	8.6
5.2	4.3	8.4
5.3	4.3	8.2
5.4	4.0	8.0
5.5	3.3	7.8
5.6	2.2	7.6
5.7	0.7	7.4
5.8	-1.2	7.2
5.9	-3.5	7.0
6.0	-6.0	6.8
6.1	-6.7	6.7
6.2	-5.4	6.5
6.3	-3.4	6.3
6.4	-2.1	6.1
6.5	-1.0	6.0
6.6	-0.4	5.8
6.7	-0.3	5.6
6.8	-0.5	5.5
6.9	-1.0	5.3
7.0	-2.0	5.2
7.1	-3.8	5.3
7.2	-5.7	5.3
7.3	-9.4	5.3
7.4	-16.4	5.3
7.5	-24.3	5.3
7.6	-13.8	5.3
7.7	-9.5	5.3
7.8	-6.6	5.3
7.9	-5.0	5.3
8.0	-4.1	5.3
8.1	-3.5	5.3
8.2	-3.4	5.3
8.3	-3.7	5.3
8.4	-4.5	5.3
8.5	-5.5	5.3
8.6	-6.8	5.3
8.7	-8.1	5.3

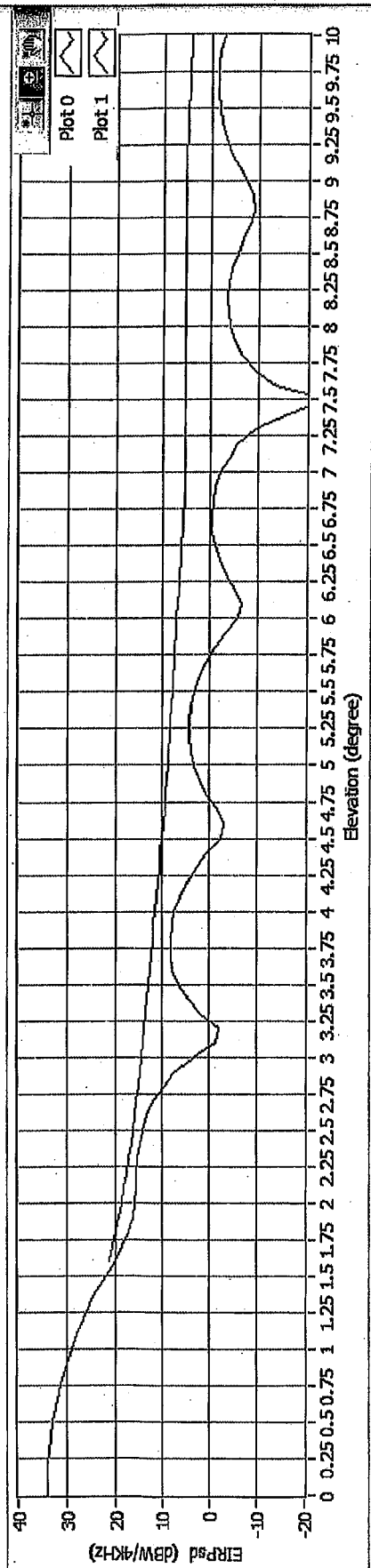
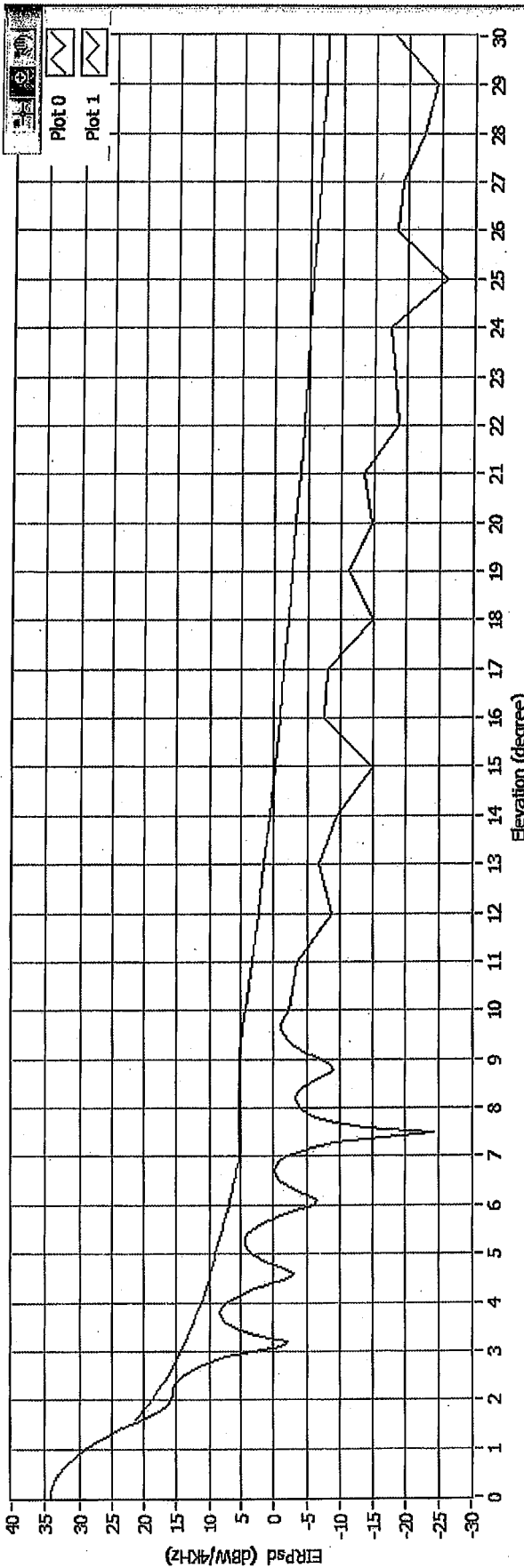
(B)

3

8.8	-9.0	5.3
8.9	-8.6	5.3
9.0	-7.2	5.3
9.1	-5.6	5.3
9.2	-4.1	5.3
9.3	-3.0	5.1
9.4	-2.1	5.0
9.5	-1.5	4.9
9.6	-1.2	4.7
9.7	-1.2	4.6
9.8	-1.4	4.5
9.9	-1.8	4.4
10.0	-2.5	4.3
11.0	-3.5	3.3
12.0	-8.8	2.3
13.0	-6.7	1.5
14.0	-9.6	0.6
15.0	-14.9	-0.1
16.0	-7.5	-0.8
17.0	-8.0	-1.5
18.0	-14.9	-2.1
19.0	-11.3	-2.7
20.0	-14.8	-3.2
21.0	-13.5	-3.8
22.0	-18.8	-4.3
23.0	-18.1	-4.7
24.0	-17.5	-5.2
25.0	-26.1	-5.6
26.0	-18.5	-6.1
27.0	-19.0	-6.5
28.0	-22.4	-6.9
29.0	-24.4	-7.3
30.0	-18.0	-7.6

(B)

6040 MHz Elevation HH Pin=-7.0 (dBW/4KHz) Radome Loss 0.25dB



Source File	Freq(MHz)	Scan	Pol	EIRPsd	Over%	a=	7-9.2	9.2-48	48-180
Mr.VestData\ DataBase\9797_2006_LoopCanyon_FCC\6040_EL_HH.sea	6040	EL	HH	34.05	11.58	1.50	0.00	0.00	9.07

W

10

4

# Cobham SATCOM, SeaTel Products

2.4m (Offset) EIRPsd Data Table

Azimuth X-Pol 6.04GHz @ -7dBW/4KHz Radome Loss 0.25dB

Angle Degrees	EIRPsd dBW/4KHz	Mask dBW/4KHz
-10.0	-24.4	
-9.9	-23.9	
-9.8	-23.9	
-9.7	-24.6	
-9.6	-25.6	
-9.5	-26.8	
-9.4	-27.7	
-9.3	-27.0	
-9.2	-25.6	
-9.1	-24.1	-4.7
-9.0	-23.1	-4.7
-8.9	-22.7	-4.7
-8.8	-22.8	-4.7
-8.7	-23.6	-4.7
-8.6	-25.2	-4.7
-8.5	-27.9	-4.7
-8.4	-31.9	-4.7
-8.3	-34.9	-4.7
-8.2	-31.5	-4.7
-8.1	-27.8	-4.7
-8.0	-25.3	-4.7
-7.9	-24.1	-4.7
-7.8	-23.3	-4.7
-7.7	-22.7	-4.7
-7.6	-22.0	-4.7
-7.5	-20.8	-4.7
-7.4	-19.4	-4.7
-7.3	-18.1	-4.7
-7.2	-17.0	-4.7
-7.1	-16.2	-4.7
-7.0	-15.8	-4.7
-6.9	-15.9	-4.7
-6.8	-16.5	-4.6
-6.7	-17.6	-4.4
-6.6	-19.3	-4.2
-6.5	-22.1	-4.1
-6.4	-25.4	-3.9
-6.3	-26.8	-3.7
-6.2	-24.5	-3.6
-6.1	-22.1	-3.4
-6.0	-20.5	-3.2

Angle Degrees	EIRPsd dBW/4KHz	Mask dBW/4KHz
0.0	-2.4	
0.1	3.2	
0.2	7.4	
0.3	10.3	
0.4	12.3	
0.5	13.6	
0.6	14.6	
0.7	15.1	
0.8	15.4	
0.9	15.4	
1.0	15.1	
1.1	14.6	
1.2	13.8	
1.3	12.7	
1.4	11.4	
1.5	9.7	
1.6	7.7	
1.7	5.5	
1.8	2.8	
1.9	-0.2	9.5
2.0	-3.0	8.9
2.1	-5.4	8.4
2.2	-6.4	7.9
2.3	-7.2	7.4
2.4	-8.3	6.9
2.5	-10.1	6.5
2.6	-13.1	6.0
2.7	-16.6	5.6
2.8	-16.3	5.2
2.9	-13.4	4.8
3.0	-11.0	4.5
3.1	-9.7	4.1
3.2	-9.2	3.8
3.3	-9.6	3.4
3.4	-10.7	3.1
3.5	-12.4	2.8
3.6	-14.7	2.5
3.7	-16.4	2.2
3.8	-15.7	1.9
3.9	-13.8	1.6
4.0	-12.2	1.3

(C)

4

-5.9	-19.9	-3.0
-5.8	-19.9	-2.8
-5.7	-20.3	-2.6
-5.6	-20.6	-2.5
-5.5	-20.2	-2.3
-5.4	-18.9	-2.1
-5.3	-17.4	-1.9
-5.2	-16.2	-1.7
-5.1	-15.5	-1.4
-5.0	-15.5	-1.2
-4.9	-16.2	-1.0
-4.8	-18.0	-0.8
-4.7	-21.1	-0.6
-4.6	-28.0	-0.3
-4.5	-28.7	-0.1
-4.4	-21.3	0.2
-4.3	-17.3	0.4
-4.2	-15.0	0.7
-4.1	-13.8	0.9
-4.0	-13.6	1.2
-3.9	-14.5	1.5
-3.8	-16.7	1.7
-3.7	-21.7	2.0
-3.6	-30.4	2.3
-3.5	-19.1	2.6
-3.4	-13.7	2.9
-3.3	-10.3	3.3
-3.2	-8.2	3.6
-3.1	-6.9	3.9
-3.0	-6.2	4.3
-2.9	-6.0	4.6
-2.8	-6.3	5.0
-2.7	-7.0	5.4
-2.6	-8.0	5.8
-2.5	-9.0	6.2
-2.4	-9.6	6.7
-2.3	-9.4	7.1
-2.2	-8.7	7.6
-2.1	-7.6	8.1
-2.0	-6.2	8.6
-1.9	-4.2	9.2
-1.8	-1.9	9.8
-1.7	0.8	
-1.6	3.4	
-1.5	5.6	
-1.4	7.5	
-1.3	9.1	

4.1	-11.1	1.0
4.2	-10.7	0.8
4.3	-10.7	0.5
4.4	-11.3	0.3
4.5	-12.1	0.0
4.6	-13.2	-0.2
4.7	-14.4	-0.4
4.8	-15.4	-0.7
4.9	-16.0	-0.9
5.0	-16.3	-1.1
5.1	-16.4	-1.3
5.2	-16.3	-1.5
5.3	-16.2	-1.8
5.4	-16.0	-2.0
5.5	-15.6	-2.2
5.6	-15.1	-2.4
5.7	-14.5	-2.5
5.8	-14.2	-2.7
5.9	-14.1	-2.9
6.0	-14.3	-3.1
6.1	-15.0	-3.3
6.2	-16.2	-3.5
6.3	-18.2	-3.6
6.4	-20.8	-3.8
6.5	-23.7	-4.0
6.6	-23.8	-4.1
6.7	-21.3	-4.3
6.8	-19.1	-4.5
6.9	-17.5	-4.6
7.0	-16.7	-4.8
7.1	-16.5	-4.7
7.2	-16.8	-4.7
7.3	-17.5	-4.7
7.4	-18.4	-4.7
7.5	-19.5	-4.7
7.6	-20.2	-4.7
7.7	-20.2	-4.7
7.8	-19.9	-4.7
7.9	-19.6	-4.7
8.0	-19.5	-4.7
8.1	-19.9	-4.7
8.2	-20.7	-4.7
8.3	-22.2	-4.7
8.4	-24.5	-4.7
8.5	-27.2	-4.7
8.6	-30.2	-4.7
8.7	-30.7	-4.7

(C)

4

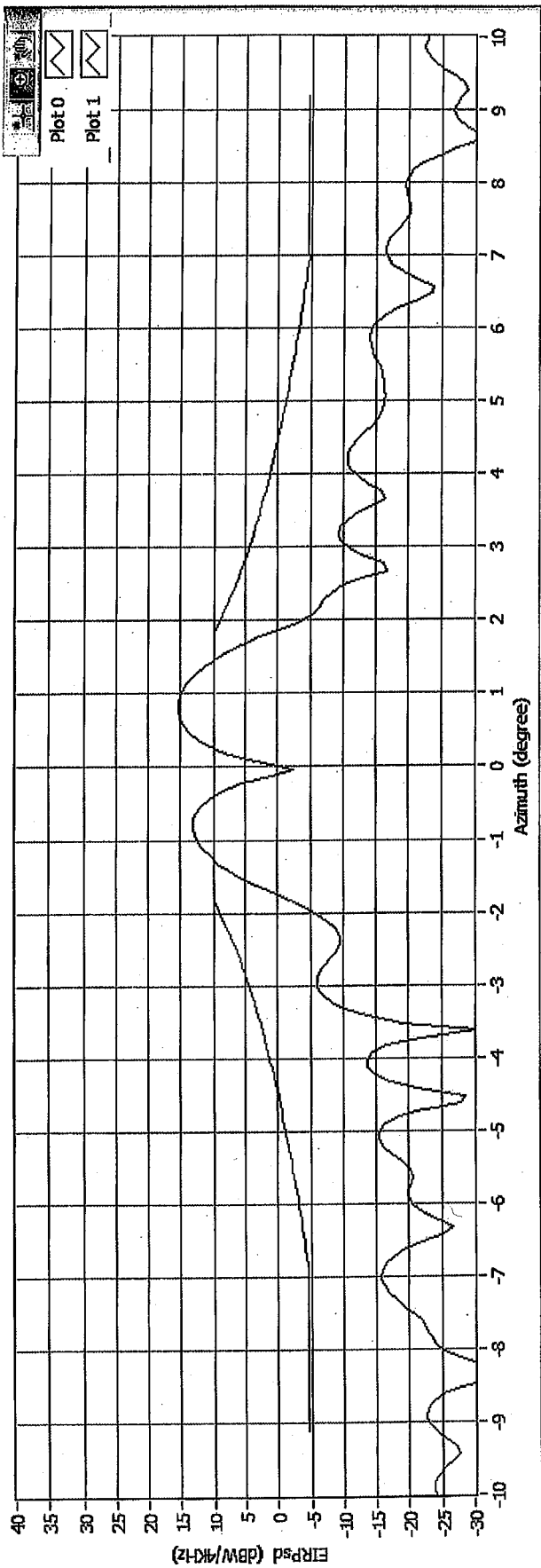
-1.2	10.5	
-1.1	11.5	
-1.0	12.4	
-0.9	12.9	
-0.8	13.1	
-0.7	13.0	
-0.6	12.6	
-0.5	11.9	
-0.4	10.5	
-0.3	8.6	
-0.2	5.4	
-0.1	0.8	

8.8	-28.8	-4.7
8.9	-27.6	-4.7
9.0	-26.9	-4.7
9.1	-27.3	-4.7
9.2	-28.1	-4.7
9.3	-29.1	
9.4	-28.6	
9.5	-27.2	
9.6	-25.2	
9.7	-23.6	
9.8	-22.8	
9.9	-22.5	
10.0	-22.7	

(5)

4

6040 MHz Azimuth HV Pin=-7.0 (dBW/4KHz) Radome Loss 0.25dB



Source File	Freq(MHz)	Scan	Pol	EIRPsd	Over%	a=	a^7	7^-9.2
M:\TestData\ DataBase\9797_2006_LoopCanyon_FCC\6040_AZ_HV.sea	6040	AZ	HV	15.40	0.00	1.80	0.00	0.00



(A)  
V240

S

## 2. EIRP Spectral Density Data

### 2.1. Azimuth pattern for Co-Pol (-10°~10°)

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-10.00	-10.22	4.30
-9.90	-10.61	4.41
-9.80	-10.97	4.52
-9.70	-11.21	4.63
-9.60	-11.26	4.74
-9.50	-11.07	4.86
-9.40	-10.82	4.97
-9.30	-10.49	5.09
-9.20	-10.14	5.21
-9.10	-9.80	5.30
-9.00	-9.69	5.30
-8.90	-9.74	5.30
-8.80	-9.92	5.30
-8.70	-10.22	5.30
-8.60	-10.72	5.30
-8.50	-11.33	5.30
-8.40	-11.92	5.30
-8.30	-12.48	5.30
-8.20	-13.13	5.30
-8.10	-13.68	5.30
-8.00	-14.61	5.30
-7.90	-16.12	5.30
-7.80	-18.35	5.30
-7.70	-20.93	5.30
-7.60	-22.29	5.30
-7.50	-17.42	5.30
-7.40	-12.93	5.30
-7.30	-7.97	5.30
-7.20	-5.32	5.30
-7.10	-3.64	5.30
-7.00	-2.07	5.30
-6.90	-1.07	5.33
-6.80	-0.29	5.49
-6.70	0.18	5.65
-6.60	0.51	5.81
-6.50	0.53	5.98
-6.40	0.37	6.15
-6.30	0.14	6.32
-6.20	-0.16	6.49
-6.10	-0.36	6.67
-6.00	-0.50	6.85
-5.90	-0.41	7.03
-5.80	-0.13	7.21
-5.70	0.13	7.40
-5.60	0.54	7.60
-5.50	0.87	7.79
-5.40	0.96	7.99
-5.30	1.07	8.19
-5.20	1.06	8.40
-5.10	1.03	8.61

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-5.00	0.9410564	8.825749892
-4.90	0.8577819	9.045097999
-4.80	0.9048075	9.268969066
-4.70	0.9293	9.497553552
-4.60	0.9753459	9.731054208
-4.50	0.9792647	9.969687156
-4.40	0.8176142	10.21368309
-4.30	0.3346221	10.46328861
-4.20	-0.4922447	10.71876774
-4.10	-2.0049015	10.98040358
-4.00	-4.6559697	11.24850022
-3.90	-9.9434106	11.52338482
-3.80	-15.5664118	11.80541008
-3.70	-8.097179	12.0949569
-3.60	-2.7019711	12.39243748
-3.50	0.6779939	12.69829889
-3.40	3.2428485	13.01302707
-3.30	4.6271646	13.3371515
-3.20	6.2309335	13.67125054
-3.10	7.4967059	14.01595765
-3.00	8.4430961	14.37196863
-2.90	9.2973945	14.74005005
-2.80	10.017474	15.12104922
-2.70	10.6670151	15.5159059
-2.60	11.1960531	15.9256663
-2.50	11.633979	16.35149978
-2.40	12.0033259	16.79471896
-2.30	12.2825404	17.2568041
-2.20	12.4941556	17.73943298
-2.10	12.6126993	18.24451763
-2.00	12.721446	18.77425011
-1.90	14.07	19.33115998
-1.80	15.583	19.91818737
-1.70	16.91	20.53877697
-1.60	18.6104	21.19700043
-1.50	19.8844911	21.89771852
-1.40	20.9553032	22.64679911
-1.30	22.1142883	23.45141619
-1.20	23.2585779	24.32046885
-1.10	24.6438737	25.26518287
-1.00	26.0164334	26.3
-0.90	27.17481303	
-0.80	28.45776152	
-0.70	29.37310304	
-0.60	30.39665728	
-0.50	31.21625069	
-0.40	31.85935931	
-0.30	32.37258418	
-0.20	32.78698242	
-0.10	33.08895649	

(A)  
V240

Intellian®

Intellian v-Series  
Maritime C-band VSAT Antenna System

Test Report

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
0.00	33.3249992	
0.10	33.2139338	
0.20	32.994344	
0.30	32.661944	
0.40	32.2005812	
0.50	31.60811	
0.60	30.813236	
0.70	29.8152911	
0.80	28.862576	
0.90	27.5797403	
1.00	26.3000984	26.3
1.10	25.0077422	25.26518287
1.20	23.313668	24.32046885
1.30	21.165	23.45141619
1.40	19.277	22.64679911
1.50	17.471	21.89771852
1.60	15.779	21.19700043
1.70	13.8498804	20.53877697
1.80	12.0458404	19.91818737
1.90	12.3094066	19.33115998
2.00	12.5014474	18.77425011
2.10	12.5631748	18.24451763
2.20	12.4573564	17.73943298
2.30	12.2408206	17.2568041
2.40	11.9752948	16.79471896
2.50	11.5902334	16.35149978
2.60	11.1924346	15.92566663
2.70	10.6623628	15.5159059
2.80	10.0744828	15.12104922
2.90	9.4425118	14.74005005
3.00	8.7880054	14.37196863
3.10	8.0041654	14.01595765
3.20	7.085113	13.67125054
3.30	6.0288886	13.3371515
3.40	4.8090376	13.01302707
3.50	3.4020448	12.69829889
3.60	1.0701208	12.39243748
3.70	-1.9652996	12.0949569
3.80	-5.8247318	11.80541008
3.90	-13.4475758	11.52338482
4.00	-21.842066	11.24850022
4.10	-9.0025386	10.98040358
4.20	-5.4762384	10.71876774
4.30	-3.0189	10.46328861
4.40	-1.642281	10.21368309
4.50	-0.8359056	9.969687156
4.60	-0.3744198	9.731054208
4.70	-0.1490658	9.497553552
4.80	0.0214194	9.268969066
4.90	0.1419348	9.045097999

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
5.00	0.2810664	8.825749892
5.10	0.444693	8.610745598
5.20	0.621057	8.399916409
5.30	0.8179968	8.19310326
5.40	0.9414516	7.990156004
5.50	0.954189	7.790932763
5.60	0.8650272	7.595299325
5.70	0.6181176	7.403128608
5.80	0.1830864	7.214300161
5.90	-0.2637024	7.028699709
6.00	-0.927027	6.84621874
6.10	-1.4326038	6.666754125
6.20	-1.8784128	6.490207763
6.30	-2.097888	6.316486264
6.40	-2.1400194	6.14550065
6.50	-2.1067062	5.977166084
6.60	-1.975413	5.811401611
6.70	-2.014605	5.648129932
6.80	-2.1821508	5.487277182
6.90	-2.4917676	5.328772732
7.00	-3.1080618	5.3
7.10	-3.9291342	5.3
7.20	-5.0235708	5.3
7.30	-6.3570786	5.3
7.40	-7.8649908	5.3
7.50	-9.4150344	5.3
7.60	-11.097351	5.3
7.70	-12.1075248	5.3
7.80	-14.4161618	5.3
7.90	-14.0026862	5.3
8.00	-13.0219064	5.3
8.10	-12.1195106	5.3
8.20	-11.2778624	5.3
8.30	-10.5537902	5.3
8.40	-9.7689704	5.3
8.50	-9.1526762	5.3
8.60	-8.7254834	5.3
8.70	-8.3071088	5.3
8.80	-7.928906	5.3
8.90	-7.8034916	5.3
9.00	-7.7613602	5.3
9.10	-7.9210676	5.3
9.20	-8.1993308	5.205304316
9.30	-8.7009884	5.087926286
9.40	-9.2937674	4.97180366
9.50	-10.0756478	4.856909868
9.60	-10.755629	4.743219174
9.70	-11.1044378	4.630706643
9.80	-10.8947606	4.519348108
9.90	-10.304921	4.409120135
10.00	-9.4799294	4.3

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2.2. Azimuth pattern for Co-Pol (-180°~180°)

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-180.00	-30.02	-12.70
-179.00	-33.63	-12.70
-178.00	-32.68	-12.70
-177.00	-33.35	-12.70
-176.00	-30.36	-12.70
-175.00	-32.03	-12.70
-174.00	-27.20	-12.70
-173.00	-35.70	-12.70
-172.00	-33.20	-12.70
-171.00	-38.64	-12.70
-170.00	-34.69	-12.70
-169.00	-35.69	-12.70
-168.00	-42.43	-12.70
-167.00	-34.53	-12.70
-166.00	-40.56	-12.70
-165.00	-41.91	-12.70
-164.00	-31.27	-12.70
-163.00	-44.29	-12.70
-162.00	-35.15	-12.70
-161.00	-33.98	-12.70
-160.00	-38.85	-12.70
-159.00	-37.86	-12.70
-158.00	-31.61	-12.70
-157.00	-30.41	-12.70
-156.00	-38.06	-12.70
-155.00	-34.98	-12.70
-154.00	-30.30	-12.70
-153.00	-36.95	-12.70
-152.00	-33.71	-12.70
-151.00	-37.35	-12.70
-150.00	-34.14	-12.70
-149.00	-43.65	-12.70
-148.00	-34.36	-12.70
-147.00	-31.17	-12.70
-146.00	-30.42	-12.70
-145.00	-33.20	-12.70
-144.00	-27.91	-12.70
-143.00	-26.97	-12.70
-142.00	-46.95	-12.70
-141.00	-34.42	-12.70
-140.00	-33.28	-12.70
-139.00	-32.32	-12.70
-138.00	-38.52	-12.70
-137.00	-35.04	-12.70
-136.00	-36.05	-12.70

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-135.00	-32.59	-12.70
-134.00	-38.063	-12.7
-133.00	-31.60	-12.70
-132.00	-38.04	-12.70
-131.00	-31.04	-12.70
-130.00	-42.12	-12.70
-129.00	-31.72	-12.70
-128.00	-36.27	-12.70
-127.00	-30.25	-12.70
-126.00	-34.11	-12.70
-125.00	-33.21	-12.70
-124.00	-32.72	-12.70
-123.00	-32.69	-12.70
-122.00	-31.50	-12.70
-121.00	-29.02	-12.70
-120.00	-29.24	-12.70
-119.00	-30.04	-12.70
-118.00	-28.36	-12.70
-117.00	-26.46	-12.70
-116.00	-26.18	-12.70
-115.00	-28.28	-12.70
-114.00	-31.02	-12.70
-113.00	-28.00	-12.70
-112.00	-25.50	-12.70
-111.00	-26.16	-12.70
-110.00	-26.94	-12.70
-109.00	-26.13	-12.70
-108.00	-26.04	-12.70
-107.00	-23.86	-12.70
-106.00	-22.51	-12.70
-105.00	-23.54	-12.70
-104.00	-23.43	-12.70
-103.00	-24.30	-12.70
-102.00	-25.59	-12.70
-101.00	-24.34	-12.70
-100.00	-22.83	-12.70
-99.00	-24.22	-12.70
-98.00	-27.52	-12.70
-97.00	-27.36	-12.70
-96.00	-27.06	-12.70
-95.00	-22.51	-12.70
-94.00	-19.28	-12.70
-93.00	-19.25	-12.70
-92.00	-20.03	-12.70
-91.00	-26.63	-12.70

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Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-90.00	-28.37	-12.70
-89.00	-21.26	-12.70
-88.00	-17.99	-12.70
-87.00	-18.46	-12.70
-86.00	-18.82	-12.70
-85.00	-16.69	-12.70
-84.00	-15.87	-12.70
-83.00	-16.72	-12.70
-82.00	-15.71	-12.70
-81.00	-16.36	-12.70
-80.00	-17.19	-12.70
-79.00	-15.32	-12.70
-78.00	-17.82	-12.70
-77.00	-19.43	-12.70
-76.00	-20.20	-12.70
-75.00	-18.79	-12.70
-74.00	-22.02	-12.70
-73.00	-21.72	-12.70
-72.00	-22.53	-12.70
-71.00	-24.46	-12.70
-70.00	-25.45	-12.70
-69.00	-25.10	-12.70
-68.00	-23.67	-12.70
-67.00	-24.65	-12.70
-66.00	-25.11	-12.70
-65.00	-27.34	-12.70
-64.00	-30.64	-12.70
-63.00	-28.84	-12.70
-62.00	-30.45	-12.70
-61.00	-26.75	-12.70
-60.00	-25.97	-12.70
-59.00	-37.18	-12.70
-58.00	-32.63	-12.70
-57.00	-21.98	-12.70
-56.00	-20.81	-12.70
-55.00	-20.90	-12.70
-54.00	-27.59	-12.70
-53.00	-33.59	-12.70
-52.00	-21.46	-12.70
-51.00	-21.22	-12.70
-50.00	-23.05	-12.70
-49.00	-29.19	-12.70
-48.00	-25.30	-12.70
-47.00	-23.76	-12.50
-46.00	-26.80	-12.27

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-45.00	-28.64	-12.03
-44.00	-24.67	-11.79
-43.00	-24.25	-11.54
-42.00	-29.99	-11.28
-41.00	-26.37	-11.02
-40.00	-29.66	-10.75
-39.00	-23.34	-10.48
-38.00	-40.52	-10.19
-37.00	-22.32	-9.91
-36.00	-26.03	-9.61
-35.00	-24.60	-9.30
-34.00	-29.09	-8.99
-33.00	-30.40	-8.66
-32.00	-27.75	-8.33
-31.00	-23.40	-7.98
-30.00	-27.33	-7.63
-29.00	-24.67	-7.26
-28.00	-21.52	-6.88
-27.00	-28.30	-6.48
-26.00	-25.36	-6.07
-25.00	-42.80	-5.65
-24.00	-25.43	-5.21
-23.00	-25.19	-4.74
-22.00	-26.60	-4.26
-21.00	-33.50	-3.76
-20.00	-19.49	-3.23
-19.00	-18.22	-2.67
-18.00	-12.50	-2.08
-17.00	-11.95	-1.46
-16.00	-5.58	-0.80
-15.00	-10.34	-0.10
-14.00	-12.11	0.65
-13.00	-7.01	1.45
-12.00	-6.33	2.32
-11.00	-5.64	3.27
-10.00	-10.22	4.30
-9.00	-9.69	5.30
-8.00	-14.61	5.30
-7.00	-2.07	5.30
-6.00	-0.50	6.85
-5.00	0.94	8.83
-4.00	-4.66	11.25
-3.00	8.44	14.37
-2.00	12.72	18.77
-1.00	26.02	26.30

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Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
0.00	33.32	
1.00	26.30	26.30
2.00	12.50	18.77
3.00	8.79	14.37
4.00	-21.84	11.25
5.00	0.28	8.83
6.00	-0.93	6.85
7.00	-3.11	5.30
8.00	-13.02	5.30
9.00	-7.76	5.30
10.00	-9.48	4.30
11.00	-3.43	3.27
12.00	-5.96	2.32
13.00	-7.00	1.45
14.00	-9.51	0.65
15.00	-8.85	-0.10
16.00	-6.28	-0.80
17.00	-10.57	-1.46
18.00	-13.35	-2.08
19.00	-23.24	-2.67
20.00	-17.75	-3.23
21.00	-22.81	-3.76
22.00	-21.86	-4.26
23.00	-22.82	-4.74
24.00	-34.13	-5.21
25.00	-21.66	-5.65
26.00	-19.73	-6.07
27.00	-35.21	-6.48
28.00	-18.72	-6.88
29.00	-25.77	-7.26
30.00	-23.40	-7.63
31.00	-22.51	-7.98
32.00	-24.31	-8.33
33.00	-31.40	-8.66
34.00	-17.23	-8.99
35.00	-20.56	-9.30
36.00	-24.18	-9.61
37.00	-20.84	-9.91
38.00	-25.03	-10.19
39.00	-28.23	-10.48
40.00	-25.48	-10.75
41.00	-27.26	-11.02
42.00	-20.64	-11.28
43.00	-27.18	-11.54
44.00	-24.40	-11.79

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
45.00	-23.97	-12.03
46.00	-24.60	-12.27
47.00	-24.35	-12.50
48.00	-24.46	-12.70
49.00	-18.51	-12.70
50.00	-18.09	-12.70
51.00	-15.27	-12.70
52.00	-21.08	-12.70
53.00	-46.73	-12.70
54.00	-22.32	-12.70
55.00	-18.48	-12.70
56.00	-17.92	-12.70
57.00	-23.97	-12.70
58.00	-33.73	-12.70
59.00	-27.19	-12.70
60.00	-33.25	-12.70
61.00	-35.92	-12.70
62.00	-29.42	-12.70
63.00	-30.20	-12.70
64.00	-28.97	-12.70
65.00	-27.03	-12.70
66.00	-34.88	-12.70
67.00	-28.28	-12.70
68.00	-29.11	-12.70
69.00	-21.10	-12.70
70.00	-18.56	-12.70
71.00	-21.34	-12.70
72.00	-20.34	-12.70
73.00	-21.05	-12.70
74.00	-17.42	-12.70
75.00	-17.84	-12.70
76.00	-19.29	-12.70
77.00	-18.27	-12.70
78.00	-14.67	-12.70
79.00	-16.41	-12.70
80.00	-16.69	-12.70
81.00	-15.32	-12.70
82.00	-15.70	-12.70
83.00	-18.23	-12.70
84.00	-15.52	-12.70
85.00	-16.91	-12.70
86.00	-17.21	-12.70
87.00	-18.09	-12.70
88.00	-20.94	-12.70
89.00	-19.08	-12.70

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Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
90.00	-19.04	-12.70
91.00	-18.59	-12.70
92.00	-20.11	-12.70
93.00	-22.20	-12.70
94.00	-27.98	-12.70
95.00	-28.88	-12.70
96.00	-23.05	-12.70
97.00	-22.79	-12.70
98.00	-22.78	-12.70
99.00	-21.12	-12.70
100.00	-21.51	-12.70
101.00	-24.44	-12.70
102.00	-26.06	-12.70
103.00	-26.48	-12.70
104.00	-26.79	-12.70
105.00	-27.11	-12.70
106.00	-25.48	-12.70
107.00	-32.95	-12.70
108.00	-28.58	-12.70
109.00	-27.68	-12.70
110.00	-35.69	-12.70
111.00	-42.60	-12.70
112.00	-36.78	-12.70
113.00	-32.26	-12.70
114.00	-27.57	-12.70
115.00	-31.82	-12.70
116.00	-36.68	-12.70
117.00	-32.23	-12.70
118.00	-34.74	-12.70
119.00	-31.59	-12.70
120.00	-37.19	-12.70
121.00	-40.09	-12.70
122.00	-38.67	-12.70
123.00	-34.46	-12.70
124.00	-33.34	-12.70
125.00	-35.70	-12.70
126.00	-32.77	-12.70
127.00	-31.01	-12.70
128.00	-35.47	-12.70
129.00	-42.03	-12.70
130.00	-27.93	-12.70
131.00	-30.91	-12.70
132.00	-43.54	-12.70
133.00	-29.81	-12.70
134.00	-46.77	-12.70

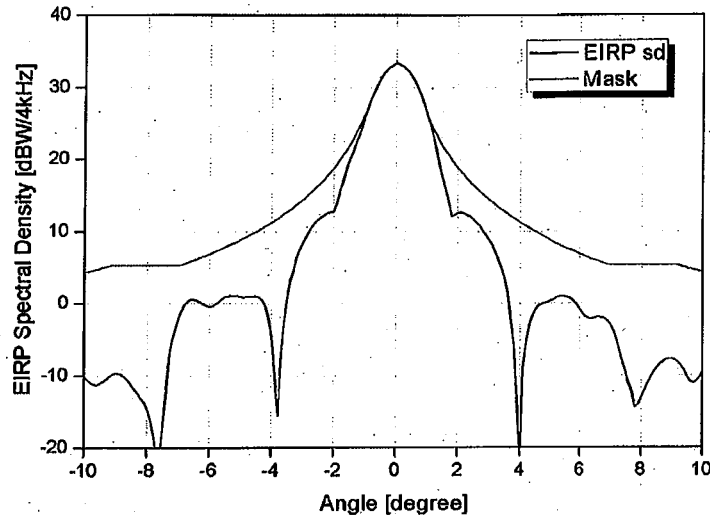
Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
135.00	-42.69	-12.70
136.00	-51.31	-12.70
137.00	-30.18	-12.70
138.00	-30.10	-12.70
139.00	-41.71	-12.70
140.00	-32.54	-12.70
141.00	-36.99	-12.70
142.00	-24.41	-12.70
143.00	-28.79	-12.70
144.00	-30.87	-12.70
145.00	-40.72	-12.70
146.00	-25.71	-12.70
147.00	-30.30	-12.70
148.00	-30.52	-12.70
149.00	-30.97	-12.70
150.00	-41.41	-12.70
151.00	-33.77	-12.70
152.00	-29.95	-12.70
153.00	-35.86	-12.70
154.00	-34.38	-12.70
155.00	-39.73	-12.70
156.00	-30.06	-12.70
157.00	-33.10	-12.70
158.00	-34.79	-12.70
159.00	-34.40	-12.70
160.00	-28.66	-12.70
161.00	-36.44	-12.70
162.00	-35.66	-12.70
163.00	-45.45	-12.70
164.00	-33.92	-12.70
165.00	-36.31	-12.70
166.00	-31.29	-12.70
167.00	-29.96	-12.70
168.00	-36.23	-12.70
169.00	-31.19	-12.70
170.00	-27.78	-12.70
171.00	-28.41	-12.70
172.00	-31.82	-12.70
173.00	-28.52	-12.70
174.00	-28.62	-12.70
175.00	-33.81	-12.70
176.00	-32.38	-12.70
177.00	-31.95	-12.70
178.00	-34.42	-12.70
179.00	-31.50	-12.70
180.00	-28.51	-12.70

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## 1. EIRP Spectral Density of v240C

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



6.15 GHz EIRP spectral density @ -8.357 dBW/4kHz Input power spectral density.

### FCC EIRP spectral density regulation

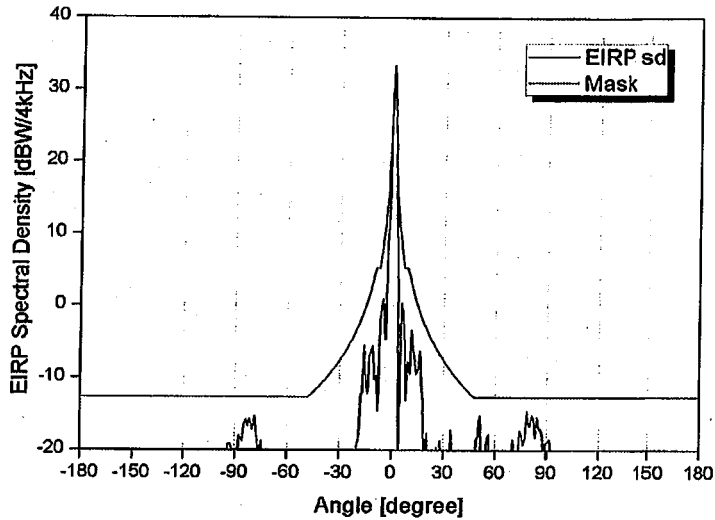
$26.3-25\log(\theta)$	dBW/4kHz for	$1.0^\circ \leq \theta \leq 7.0^\circ$
-5.3	dBW/4kHz for	$7.0^\circ \leq \theta \leq 9.2^\circ$
$29.3-25\log(\theta)$	dBW/4kHz for	$9.2^\circ \leq \theta \leq 48^\circ$
-12.7	dBW/4kHz for	$48^\circ \leq \theta \leq 85^\circ$

The v240C's radiation Pattern meets the FCC EIRP spectral density mask when the input power spectral density is -8.375 dBW/4kHz.

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



6.15 GHz EIRP spectral density @ -8.357 dBW/4kHz Input power spectral density.

FCC EIRP spectral density regulation

26.3-25log( $\theta$ )	dBW/4kHz	for	1.0° ≤ $\theta$ ≤ 7.0°
-5.3	dBW/4kHz	for	7.0° ≤ $\theta$ ≤ 9.2°
29.3-25log( $\theta$ )	dBW/4kHz	for	9.2° ≤ $\theta$ ≤ 48°
-12.7	dBW/4kHz	for	48° ≤ $\theta$ ≤ 85°

The v240C's radiation Pattern meets the FCC EIRP spectral density mask when the input power spectral density is -8.375 dBW/4kHz.



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

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-30	-20.02	-7.628031368
-29.9	-20.586	-7.591779708
-29.8	-21.326	-7.555406602
-29.7	-22.097	-7.518911233
-29.6	-21.705	-7.482292776
-29.5	-21.801	-7.445550399
-29.4	-22.163	-7.40868326
-29.3	-22.437	-7.371690509
-29.2	-23.267	-7.334571286
-29.1	-24.844	-7.297324725
-29	-27.105	-7.259949947
-28.9	-29.971	-7.222446069
-28.8	-30.895	-7.184812194
-28.7	-29.732	-7.147047418
-28.6	-27.202	-7.109150828
-28.5	-25.856	-7.0711215
-28.4	-24.502	-7.032958501
-28.3	-23.728	-6.994660888
-28.2	-23.334	-6.956227708
-28.1	-23.401	-6.917657998
-28	-24.276	-6.878950784
-27.9	-25.316	-6.840105082
-27.8	-26.247	-6.801119898
-27.7	-27.383	-6.761994227
-27.6	-28.283	-6.722727052
-27.5	-28.453	-6.683317346
-27.4	-27.836	-6.643764071
-27.3	-29.003	-6.604066176
-27.2	-28.892	-6.564222601
-27.1	-28.006	-6.524232272
-27	-26.536	-6.484094104
-26.9	-24.405	-6.443807
-26.8	-22.866	-6.403369851
-26.7	-21.022	-6.362781534
-26.6	-20.046	-6.322040916
-26.5	-18.967	-6.281146848
-26.4	-18.264	-6.240098172
-26.3	-17.828	-6.198893712
-26.2	-17.28	-6.157532283
-26.1	-17.119	-6.116012683
-26	-17.134	-6.074333699
-25.9	-17.373	-6.032494102
-25.8	-17.986	-5.990492649
-25.7	-18.252	-5.948328083
-25.6	-19.342	-5.905999133
-25.5	-20.55	-5.863504511
-25.4	-21.558	-5.820842915
-25.3	-22.339	-5.778013029
-25.2	-23.108	-5.73501352
-25.1	-23.487	-5.691843037

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-25	-23.36	-5.648500217
-24.9	-23.653	-5.604983677
-24.8	-23.472	-5.561292021
-24.7	-23.67	-5.517423831
-24.6	-23.952	-5.473377678
-24.5	-24.339	-5.429152109
-24.4	-24.934	-5.384745658
-24.3	-24.38	-5.34015684
-24.2	-22.827	-5.29538415
-24.1	-22.055	-5.250426064
-24	-21.12	-5.205281043
-23.9	-20.503	-5.159947524
-23.8	-19.666	-5.114423926
-23.7	-19.639	-5.06870865
-23.6	-19.548	-5.022800074
-23.5	-19.328	-4.976696557
-23.4	-19.167	-4.930396435
-23.3	-18.997	-4.883898026
-23.2	-18.785	-4.837199622
-23.1	-18.999	-4.790299497
-23	-19.243	-4.7431959
-22.9	-19.694	-4.695887058
-22.8	-19.952	-4.648371175
-22.7	-20.307	-4.60064643
-22.6	-20.338	-4.552710979
-22.5	-20.185	-4.504562953
-22.4	-19.809	-4.456200458
-22.3	-19.326	-4.407621576
-22.2	-18.7	-4.358824361
-22.1	-18.221	-4.309806842
-22	-17.972	-4.260567021
-21.9	-17.665	-4.211102871
-21.8	-17.402	-4.16141234
-21.7	-17.184	-4.111493346
-21.6	-16.918	-4.061343779
-21.5	-16.756	-4.010961498
-21.4	-16.577	-3.960344334
-21.3	-16.795	-3.909490086
-21.2	-17.311	-3.858396523
-21.1	-18.107	-3.807061382
-21	-19.04	-3.755482368
-20.9	-20.481	-3.703657153
-20.8	-22.101	-3.651583374
-20.7	-23.152	-3.599258636
-20.6	-23.743	-3.546680509
-20.5	-23.49	-3.493846526
-20.4	-22.566	-3.440754186
-20.3	-21.247	-3.387400948
-20.2	-20.647	-3.333784236
-20.1	-20.646	-3.279901436

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Test Report

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-20	-20.476	-3.225749892
-19.9	-21.386	-3.17132691
-19.8	-22.997	-3.116629757
-19.7	-25.41	-3.061655654
-19.6	-30.163	-3.006401784
-19.5	-33.713	-2.950865284
-19.4	-26.971	-2.895043248
-19.3	-23.73	-2.838932725
-19.2	-19.727	-2.782530718
-19.1	-17.566	-2.725834181
-19	-15.821	-2.668840024
-18.9	-14.278	-2.611545104
-18.8	-13.223	-2.553946232
-18.7	-12.619	-2.496040163
-18.6	-12.094	-2.437823605
-18.5	-12.112	-2.37929321
-18.4	-11.801	-2.320445575
-18.3	-11.573	-2.261277243
-18.2	-11.56	-2.2017847
-18.1	-11.455	-2.141964372
-18	-11.311	-2.081812628
-17.9	-11.021	-2.021325774
-17.8	-10.627	-1.960500058
-17.7	-10.312	-1.899331659
-17.6	-10.136	-1.837816695
-17.5	-10.152	-1.775951217
-17.4	-10.258	-1.713731207
-17.3	-10.34	-1.651152578
-17.2	-10.366	-1.588211173
-17.1	-10.57	-1.52490276
-17	-10.694	-1.461223034
-16.9	-10.705	-1.397167615
-16.8	-10.55	-1.332732043
-16.7	-10.287	-1.267911779
-16.6	-9.784	-1.202702201
-16.5	-9.346	-1.137098605
-16.4	-8.57	-1.071096201
-16.3	-8.04	-1.00469011
-16.2	-7.43	-0.937875364
-16.1	-6.966	-0.870646901
-16	-6.521	-0.802999566
-15.9	-6.288	-0.734928108
-15.8	-6.073	-0.666427174
-15.7	-6.015	-0.59749131
-15.6	-6.053	-0.528114959
-15.5	-6.223	-0.458292454
-15.4	-6.562	-0.388018021
-15.3	-6.975	-0.31728577
-15.2	-7.599	-0.246089699
-15.1	-8.009	-0.174423682

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-15	-8.643	-0.102281476
-14.9	-8.988	-0.02965671
-14.8	-9.434	0.043457115
-14.7	-9.603	0.117066631
-14.6	-9.74	0.191178605
-14.5	-9.773	0.265799944
-14.4	-9.84	0.340937698
-14.3	-10.126	0.416599063
-14.2	-10.393	0.49279139
-14.1	-10.736	0.569522184
-14	-11.116	0.646799108
-13.9	-11.369	0.724629994
-13.8	-11.365	0.80302284
-13.7	-11.053	0.881985821
-13.6	-10.019	0.961527291
-13.5	-9.165	1.041655788
-13.4	-8.354	1.122380041
-13.3	-7.371	1.203708976
-13.2	-6.642	1.28565172
-13.1	-6.03	1.368217609
-13	-5.569	1.451416192
-12.9	-5.34	1.535257243
-12.8	-5.343	1.619750759
-12.7	-5.631	1.704906976
-12.6	-6.145	1.790736372
-12.5	-6.887	1.877249675
-12.4	-8.127	1.964457871
-12.3	-9.53	2.052372214
-12.2	-11.453	2.141004233
-12.1	-13.721	2.230365742
-12	-15.738	2.320468849
-11.9	-19.865	2.411325965
-11.8	-16.922	2.502949817
-11.7	-15.247	2.595353456
-11.6	-13.738	2.688550269
-11.5	-12.582	2.782553991
-11.4	-11.722	2.877378717
-11.3	-11.425	2.973038913
-11.2	-11.299	3.069549433
-11.1	-11.513	3.16692553
-11	-11.778	3.265182871
-10.9	-12.325	3.364337551
-10.8	-12.656	3.464406113
-10.7	-12.746	3.565405558
-10.6	-10.626	3.667353368
-10.5	-9.862	3.770267523
-10.4	-9.037	3.874166518
-10.3	-8.234	3.979069382
-10.2	-7.301	4.084995706
-10.1	-6.427	4.191965655

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Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-10	-5.934	4.3
-9.9	-5.446	4.409120135
-9.8	-5.049	4.519348108
-9.7	-4.857	4.630706643
-9.6	-4.712	4.743219174
-9.5	-4.683	4.856909868
-9.4	-4.711	4.97180366
-9.3	-4.768	5.087926286
-9.2	-4.743	5.205304316
-9.1	-4.655	5.323965192
-9	-4.371	5.443937264
-8.9	-3.912	5.565249834
-8.8	-3.29	5.687933196
-8.7	-2.688	5.812018685
-8.6	-2.132	5.937538719
-8.5	-1.416	6.064526857
-8.4	-0.999	6.193017848
-8.3	-0.676	6.323047691
-8.2	-0.519	6.45465369
-8.1	-0.488	6.587874528
-8	-0.615	6.722750325
-7.9	-0.916	6.859322718
-7.8	-1.517	6.997634933
-7.7	-2.278	7.137731871
-7.6	-3.095	7.279660193
-7.5	-3.906	7.423468415
-7.4	-4.421	7.569207007
-7.3	-4.581	7.716928497
-7.2	-4.139	7.866687589
-7.1	-3.487	8.018541282
-7	-2.684	8.172549
-6.9	-1.927	8.328772732
-6.8	-1.442	8.487277182
-6.7	-1.051	8.648129932
-6.6	-0.989	8.811401611
-6.5	-1.14	8.977166084
-6.4	-1.434	9.14550065
-6.3	-1.824	9.316486264
-6.2	-2.377	9.490207763
-6.1	-2.903	9.666754125
-6	-3.302	9.84621874
-5.9	-3.65	10.02869971
-5.8	-3.905	10.21430016
-5.7	-4.087	10.40312861
-5.6	-4.48	10.59529932
-5.5	-4.78	10.79093276
-5.4	-5.296	10.990156
-5.3	-5.883	11.19310326
-5.2	-6.052	11.39991641
-5.1	-5.787	11.6107456

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-5	-4.768	11.82574989
-4.9	-3.711	12.045098
-4.8	-2.756	12.26896907
-4.7	-1.532	12.49755355
-4.6	-0.692	12.73105421
-4.5	0.809	12.96968716
-4.4	0.672	13.21368309
-4.3	1.049	13.46328861
-4.2	1.004	13.71876774
-4.1	0.5	13.98040358
-4	-0.167	14.24850022
-3.9	-1.038	14.52338482
-3.8	-1.737	14.80541008
-3.7	-2.314	15.0949569
-3.6	-2.648	15.39243748
-3.5	-2.898	15.69829889
-3.4	-3.22	16.01302707
-3.3	-3.819	16.3371515
-3.2	-4.799	16.67125054
-3.1	-5.631	17.01595765
-3	-4.166	17.37196863
-2.9	-0.709	17.74005005
-2.8	2.799	18.12104922
-2.7	5.392	18.5159059
-2.6	7.268	18.9256663
-2.5	8.396	19.35149978
-2.4	10.094	19.79471896
-2.3	11.283	20.2568041
-2.2	12.227	20.73943298
-2.1	12.915	21.24451763
-2	13.414	21.77425011
-1.9	13.625	22.33115998
-1.8	13.616	22.91818737
-1.7	13.472	23.53877697
-1.6	15.13	24.19700043
-1.5	16.886	24.89771852
-1.4	19.079	25.64679911
-1.3	21.173	26.45141619
-1.2	22.716	
-1.1	24.264	
-1	25.973	
-0.9	27.452	
-0.8	28.659	
-0.7	29.879	
-0.6	30.656	
-0.5	31.507	
-0.4	32.101	
-0.3	32.646	
-0.2	33.026	
-0.1	33.248	

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Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
0	33.325	
0.1	33.272	
0.2	33.129	
0.3	32.787	
0.4	32.342	
0.5	31.569	
0.6	30.876	
0.7	29.911	
0.8	28.77	
0.9	27.47	
1	25.915	
1.1	24.652	
1.2	22.925	
1.3	21.377	26.45141619
1.4	19.917	25.64679911
1.5	18.309	24.89771852
1.6	15.4715	24.19700043
1.7	14.305	23.53877697
1.8	14.346	22.91818737
1.9	14.26	22.33115998
2	13.968	21.77425011
2.1	13.46	21.24451763
2.2	12.721	20.73943298
2.3	11.548	20.2568041
2.4	10.07	19.79471896
2.5	8.231	19.35149978
2.6	5.926	18.9256663
2.7	2.945	18.5159059
2.8	-0.04	18.12104922
2.9	-5.411	17.74005005
3	-12.209	17.37196863
3.1	-11.005	17.01595765
3.2	-7.554	16.67125054
3.3	-6.121	16.3371515
3.4	-5.966	16.01302707
3.5	-7.052	15.69829889
3.6	-8.569	15.39243748
3.7	-11.397	15.0949569
3.8	-14.494	14.80541008
3.9	-12.393	14.52338482
4	-9.17	14.24850022
4.1	-6.928	13.98040358
4.2	-5.302	13.71876774
4.3	-4.714	13.46328861
4.4	-4.567	13.21368309
4.5	-4.733	12.96968716
4.6	-5.498	12.73105421
4.7	-6.595	12.49755355
4.8	-8.272	12.26896907
4.9	-10.347	12.045098

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
5	-14.199	11.82574989
5.1	-18.021	11.6107456
5.2	-22.485	11.39991641
5.3	-25.144	11.19310326
5.4	-24.179	10.990156
5.5	-22.659	10.79093276
5.6	-20.495	10.59529932
5.7	-16.28	10.40312861
5.8	-13.089	10.21430016
5.9	-10.123	10.02869971
6	-7.625	9.84621874
6.1	-5.868	9.666754125
6.2	-4.421	9.490207763
6.3	-3.198	9.316486264
6.4	-2.317	9.14550065
6.5	-1.799	8.977166084
6.6	-1.512	8.811401611
6.7	-1.513	8.648129932
6.8	-1.769	8.487277182
6.9	-2.348	8.328772732
7	-2.994	8.172549
7.1	-4.324	8.018541282
7.2	-5.852	7.866687589
7.3	-7.796	7.716928497
7.4	-9.666	7.569207007
7.5	-12.033	7.423468415
7.6	-13.559	7.279660193
7.7	-12.34	7.137731871
7.8	-11.136	6.997634933
7.9	-10.408	6.859322718
8	-9.763	6.722750325
8.1	-9.531	6.587874528
8.2	-9.621	6.45465369
8.3	-9.987	6.323047691
8.4	-10.686	6.193017848
8.5	-11.587	6.064526857
8.6	-12.689	5.937538719
8.7	-13.254	5.812018685
8.8	-13.907	5.687933196
8.9	-14.064	5.565249834
9	-13.748	5.443937264
9.1	-13.3	5.323965192
9.2	-12.852	5.205304316
9.3	-12.537	5.087926286
9.4	-12.392	4.97180366
9.5	-12.353	4.856909868
9.6	-12.457	4.743219174
9.7	-12.57	4.630706643
9.8	-12.833	4.519348108
9.9	-13.271	4.409120135

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Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
10	-13.776	4.3
10.1	-14.351	4.191965655
10.2	-14.889	4.084995706
10.3	-15.406	3.979069382
10.4	-15.84	3.874166518
10.5	-14.237	3.770267523
10.6	-12.758	3.667353368
10.7	-12.225	3.565405558
10.8	-11.464	3.464406113
10.9	-10.77	3.364337551
11	-9.848	3.265182871
11.1	-9.381	3.16692553
11.2	-8.996	3.069549433
11.3	-8.778	2.973038913
11.4	-8.747	2.877378717
11.5	-9.013	2.782553991
11.6	-9.434	2.688550269
11.7	-9.918	2.595353456
11.8	-10.781	2.502949817
11.9	-11.248	2.411325965
12	-11.667	2.320468849
12.1	-11.734	2.230365742
12.2	-11.351	2.141004233
12.3	-10.577	2.052372214
12.4	-9.515	1.964457871
12.5	-8.775	1.877249675
12.6	-8.125	1.790736372
12.7	-7.546	1.704906976
12.8	-7.183	1.619750759
12.9	-6.939	1.535257243
13	-6.813	1.451416192
13.1	-6.78	1.368217609
13.2	-6.711	1.28565172
13.3	-6.806	1.203708976
13.4	-6.813	1.122380041
13.5	-6.849	1.041655788
13.6	-6.814	0.961527291
13.7	-6.795	0.881985821
13.8	-6.708	0.80302284
13.9	-6.653	0.724629994
14	-6.644	0.646799108
14.1	-6.681	0.569522184
14.2	-6.828	0.49279139
14.3	-6.977	0.416599063
14.4	-7.271	0.340937698
14.5	-7.533	0.265799944
14.6	-7.837	0.191178605
14.7	-8.051	0.117066631
14.8	-8.119	0.043457115
14.9	-8.16	-0.02965671

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
15	-7.931	-0.102281476
15.1	-7.671	-0.174423682
15.2	-7.361	-0.246089699
15.3	-7.014	-0.31728577
15.4	-6.776	-0.388018021
15.5	-6.535	-0.458292454
15.6	-6.457	-0.528114959
15.7	-6.393	-0.59749131
15.8	-6.485	-0.666427174
15.9	-6.686	-0.734928108
16	-6.907	-0.802999566
16.1	-7.211	-0.870646901
16.2	-7.511	-0.937875364
16.3	-7.798	-1.00469011
16.4	-8.123	-1.071096201
16.5	-8.415	-1.137098605
16.6	-8.439	-1.202702201
16.7	-8.55	-1.267911779
16.8	-8.576	-1.332732043
16.9	-8.537	-1.397167615
17	-8.661	-1.461223034
17.1	-8.707	-1.52490276
17.2	-8.729	-1.588211173
17.3	-8.866	-1.651152578
17.4	-9.11	-1.713731207
17.5	-9.227	-1.775951217
17.6	-9.521	-1.837816695
17.7	-9.705	-1.899331659
17.8	-9.923	-1.960500058
17.9	-9.999	-2.021325774
18	-10.237	-2.081812628
18.1	-10.243	-2.141964372
18.2	-10.332	-2.2017847
18.3	-10.441	-2.261277243
18.4	-10.822	-2.320445575
18.5	-11.255	-2.37929321
18.6	-11.942	-2.437823605
18.7	-12.789	-2.496040163
18.8	-13.949	-2.553946232
18.9	-15.207	-2.611545104
19	-16.403	-2.668840024
19.1	-18.282	-2.725834181
19.2	-20.705	-2.782530718
19.3	-23.344	-2.838932725
19.4	-27.122	-2.895043248
19.5	-29.569	-2.950865284
19.6	-28.353	-3.006401784
19.7	-26.685	-3.061655654
19.8	-25.276	-3.116629757
19.9	-23.619	-3.17132691

(B)  
V240

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**Intellian**<sup>®</sup>

Intellian v-Series  
Maritime C-band VSAT Antenna System

Test Report

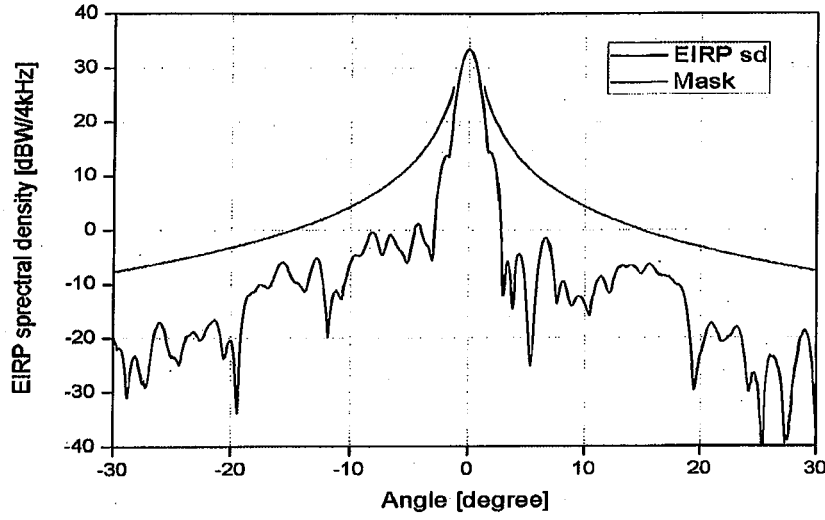
Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
20	-23.068	-3.225749892
20.1	-22.335	-3.279901436
20.2	-21.391	-3.333784236
20.3	-20.548	-3.387400948
20.4	-20.032	-3.440754186
20.5	-19.043	-3.493846526
20.6	-18.599	-3.546680509
20.7	-18	-3.599258636
20.8	-17.738	-3.651583374
20.9	-17.409	-3.703657153
21	-17.385	-3.755482368
21.1	-17.65	-3.807061382
21.2	-17.851	-3.858396523
21.3	-18.316	-3.909490086
21.4	-18.583	-3.960344334
21.5	-19.087	-4.010961498
21.6	-19.451	-4.061343779
21.7	-20.15	-4.111493346
21.8	-20.678	-4.16141234
21.9	-20.604	-4.211102871
22	-20.794	-4.260567021
22.1	-20.652	-4.309806842
22.2	-20.518	-4.358824361
22.3	-20.323	-4.407621576
22.4	-19.903	-4.456200458
22.5	-19.833	-4.504562953
22.6	-19.611	-4.552710979
22.7	-19.178	-4.60064643
22.8	-18.749	-4.648371175
22.9	-18.332	-4.695887058
23	-18.198	-4.7431959
23.1	-18.006	-4.790299497
23.2	-18.104	-4.837199622
23.3	-18.327	-4.883898026
23.4	-18.963	-4.930396435
23.5	-19.456	-4.976696557
23.6	-20.22	-5.022800074
23.7	-21.982	-5.06870865
23.8	-23.211	-5.114423926
23.9	-25.134	-5.159947524
24	-27.249	-5.205281043
24.1	-29.027	-5.250426064
24.2	-29.974	-5.29538415
24.3	-28.619	-5.34015684
24.4	-28.25	-5.384745658
24.5	-26.755	-5.429152109
24.6	-26.724	-5.473377678
24.7	-26.616	-5.517423831
24.8	-27.843	-5.561292021
24.9	-28.243	-5.604983677

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
25	-30.26	-5.648500217
25.1	-34.266	-5.691843037
25.2	-36.057	-5.73501352
25.3	-45.046	-5.778013029
25.4	-39.26	-5.820842915
25.5	-30.854	-5.863504511
25.6	-27.604	-5.905999133
25.7	-26.1	-5.948328083
25.8	-24.817	-5.990492649
25.9	-23.911	-6.032494102
26	-23.336	-6.074333699
26.1	-23.602	-6.116012683
26.2	-23.653	-6.157532283
26.3	-23.56	-6.198893712
26.4	-23.939	-6.240098172
26.5	-24.219	-6.281146848
26.6	-25.003	-6.322040916
26.7	-25.673	-6.362781534
26.8	-26.428	-6.403369851
26.9	-27.704	-6.443807
27	-29.149	-6.484094104
27.1	-32.741	-6.524232272
27.2	-35.162	-6.564222601
27.3	-39.444	-6.604066176
27.4	-38.059	-6.643764071
27.5	-38.977	-6.683317346
27.6	-38.021	-6.722727052
27.7	-34.694	-6.761994227
27.8	-33.502	-6.801119898
27.9	-29.638	-6.840105082
28	-27.848	-6.878950784
28.1	-25.913	-6.917657998
28.2	-24.743	-6.956227708
28.3	-23.582	-6.994660888
28.4	-22.189	-7.032958501
28.5	-20.922	-7.0711215
28.6	-20.137	-7.109150828
28.7	-19.764	-7.147047418
28.8	-19.389	-7.184812194
28.9	-18.746	-7.222446069
29	-18.783	-7.259949947
29.1	-19.236	-7.297324725
29.2	-19.465	-7.334571286
29.3	-20.364	-7.371690509
29.4	-21.45	-7.40868326
29.5	-23.248	-7.445550399
29.6	-25.043	-7.482292776
29.7	-28.092	-7.518911233
29.8	-31.887	-7.555406602
29.9	-33.107	-7.591779708
30	-38.108	-7.628031368

(B)  
BV240

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



14.25GHz EIRP spectral density @ -14.88dBW/4kHz Input power spectral density

FCC EIRP spectral density regulation

$29.3-25\log(\theta)$	dBW/4kHz for	$1.25^\circ \leq \theta \leq 48'$
-12.7	dBW/4kHz for	$48' < \theta \leq 180'$

The v240C's radiation Pattern meets the FCC EIRP spectral density mask when the input power spectral density is -8.375 dBW/4kHz.

(C)  
V240

2.3. Azimuth pattern for Cross-pol (-9.2°~9.2°)

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-9.20	-12.07	-4.70
-9.10	-12.18	-4.70
-9.00	-12.09	-4.70
-8.90	-11.63	-4.70
-8.80	-11.12	-4.70
-8.70	-10.35	-4.70
-8.60	-9.70	-4.70
-8.50	-8.88	-4.70
-8.40	-8.20	-4.70
-8.30	-7.71	-4.70
-8.20	-7.32	-4.70
-8.10	-7.04	-4.70
-8.00	-6.98	-4.70
-7.90	-7.02	-4.70
-7.80	-7.28	-4.70
-7.70	-7.59	-4.70
-7.60	-8.10	-4.70
-7.50	-8.59	-4.70
-7.40	-9.10	-4.70
-7.30	-9.34	-4.70
-7.20	-9.53	-4.70
-7.10	-9.33	-4.70
-7.00	-9.03	-4.70
-6.90	-8.81	-4.67
-6.80	-8.53	-4.51
-6.70	-8.34	-4.35
-6.60	-8.41	-4.19
-6.50	-8.58	-4.02
-6.40	-8.78	-3.85
-6.30	-9.25	-3.68
-6.20	-9.73	-3.51
-6.10	-10.08	-3.33
-6.00	-10.43	-3.15
-5.90	-10.91	-2.97
-5.80	-11.44	-2.79
-5.70	-12.15	-2.60
-5.60	-12.88	-2.40
-5.50	-13.67	-2.21
-5.40	-14.45	-2.01
-5.30	-14.91	-1.81
-5.20	-14.78	-1.60
-5.10	-13.45	-1.39
-5.00	-11.56	-1.17
-4.90	-9.79	-0.95
-4.80	-8.15	-0.73
-4.70	-6.58	-0.50

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-4.6	-5.484	-0.268945792
-4.5	-4.635	-0.030312844
-4.4	-4.041	0.213683088
-4.3	-3.69	0.463288611
-4.2	-3.575	0.71876774
-4.1	-3.602	0.980403582
-4	-3.904	1.248500217
-3.9	-4.383	1.523384824
-3.8	-5.013	1.805410085
-3.7	-5.793	2.094956898
-3.6	-6.638	2.392437481
-3.5	-7.42	2.698298891
-3.4	-7.944	3.013027074
-3.3	-8.262	3.337151503
-3.2	-8.434	3.671250542
-3.1	-8.582	4.015957654
-3	-8.978	4.371968632
-2.9	-9.949	4.740050053
-2.8	-11.596	5.121049216
-2.7	-15.021	5.515905896
-2.6	-21.005	5.925666301
-2.5	-23.693	6.351499783
-2.4	-14.533	6.794718957
-2.3	-9.328	7.2568041
-2.2	-5.261	7.739432979
-2.1	-2.991	8.244517632
-2	-1.188	8.774250108
-1.9	0.189	9.331159976
-1.8	1.082	9.918187372
-1.7	1.826	
-1.6	2.367	
-1.5	2.572	
-1.4	2.526	
-1.3	2.224	
-1.2	1.654	
-1.1	0.764	
-1	-0.365	
-0.9	-1.492	
-0.8	-2.649	
-0.7	-3.562	
-0.6	-3.307	
-0.5	-2.279	
-0.4	-0.851	
-0.3	0.427	
-0.2	1.489	
-0.1	2.236	



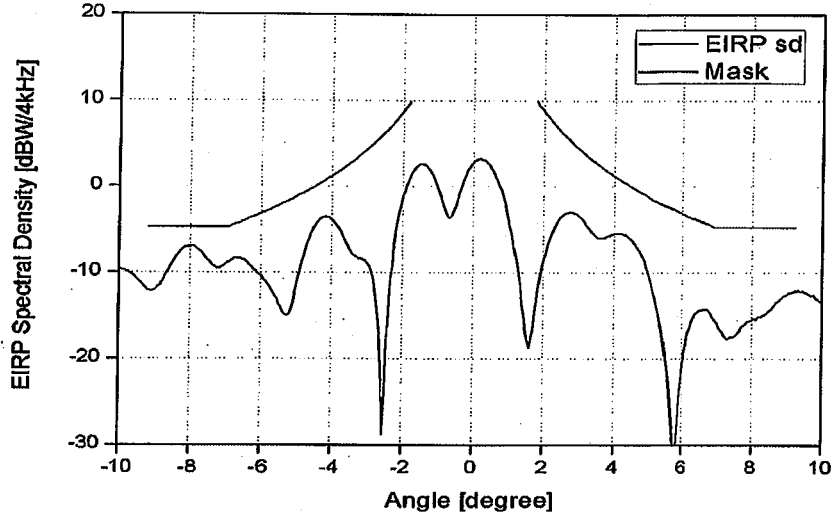
(C)  
V240

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
0	2.802	
0.1	3.083	
0.2	3.214	
0.3	3.085	
0.4	2.756	
0.5	2.202	
0.6	1.467	
0.7	0.609	
0.8	-0.404	
0.9	-1.86	
1	-3.633	
1.1	-5.485	
1.2	-7.822	
1.3	-10.582	
1.4	-13.735	
1.5	-17.083	
1.6	-18.699	
1.7	-16.647	
1.8	-13.216	9.918187372
1.9	-10.697	9.331159976
2	-8.446	8.774250108
2.1	-6.913	8.244517632
2.2	-5.669	7.739432979
2.3	-4.814	7.2568041
2.4	-4.028	6.794718957
2.5	-3.483	6.351499783
2.6	-3.128	5.925666301
2.7	-3.041	5.515905896
2.8	-3.014	5.121049216
2.9	-3.184	4.740050053
3	-3.442	4.371968632
3.1	-3.873	4.015957654
3.2	-4.441	3.671250542
3.3	-4.942	3.337151503
3.4	-5.459	3.013027074
3.5	-5.885	2.698298891
3.6	-5.975	2.392437481
3.7	-5.964	2.094956898
3.8	-5.756	1.805410085
3.9	-5.601	1.523384824
4	-5.476	1.248500217
4.1	-5.432	0.980403582
4.2	-5.432	0.71876774
4.3	-5.609	0.463288611
4.4	-5.866	0.213683088
4.5	-6.272	-0.030312844

Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
4.6	-6.838	-0.268945792
4.7	-7.404	-0.502446448
4.8	-8.252	-0.731030934
4.9	-9.397	-0.954902001
5	-10.255	-1.174250108
5.1	-11.473	-1.389254402
5.2	-12.841	-1.600083591
5.3	-14.557	-1.80689674
5.4	-16.691	-2.009843996
5.5	-19.369	-2.209067237
5.6	-22.936	-2.404700675
5.7	-29.259	-2.596871392
5.8	-30.205	-2.785699839
5.9	-24.595	-2.971300291
6	-20.701	-3.15378126
6.1	-18.366	-3.333245875
6.2	-16.624	-3.509792237
6.3	-15.189	-3.683513736
6.4	-14.631	-3.85449935
6.5	-14.302	-4.022833916
6.6	-14.287	-4.188598389
6.7	-14.278	-4.351870068
6.8	-14.726	-4.512722818
6.9	-15.369	-4.671227268
7	-15.985	-4.7
7.1	-16.693	-4.7
7.2	-17.365	-4.7
7.3	-17.71	-4.7
7.4	-17.51	-4.7
7.5	-17.312	-4.7
7.6	-16.81	-4.7
7.7	-16.168	-4.7
7.8	-15.955	-4.7
7.9	-15.65	-4.7
8	-15.418	-4.7
8.1	-15.405	-4.7
8.2	-15.167	-4.7
8.3	-14.952	-4.7
8.4	-14.6	-4.7
8.5	-14.319	-4.7
8.6	-13.917	-4.7
8.7	-13.393	-4.7
8.8	-13.055	-4.7
8.9	-12.739	-4.7
9	-12.495	-4.7
9.1	-12.322	-4.7
9.2	-12.16	-4.7

(S)  
V240

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



6.15 GHz EIRP spectral density @ -8.357 dBW/4kHz Input power spectral density.

FCC EIRP spectral density regulation

$16.3-25\log(\theta)$	dBW/4kHz for	$1.8^\circ \leq \theta \leq 7.0^\circ$
-4.7	dBW/4kHz for	$7.0^\circ \leq \theta \leq 9.2^\circ$

The v240C's radiation Pattern meets the FCC EIRP spectral density mask when the input power spectral density is -8.375 dBW/4kHz.