

Final

EIRP Spectral Density

Model Name: Intellian v80G

Test Date: Aug 5, 2011

Prepared by

RF Engineering Department
Intellian Technologies, Inc.*Confidential and Intellian proprietary*

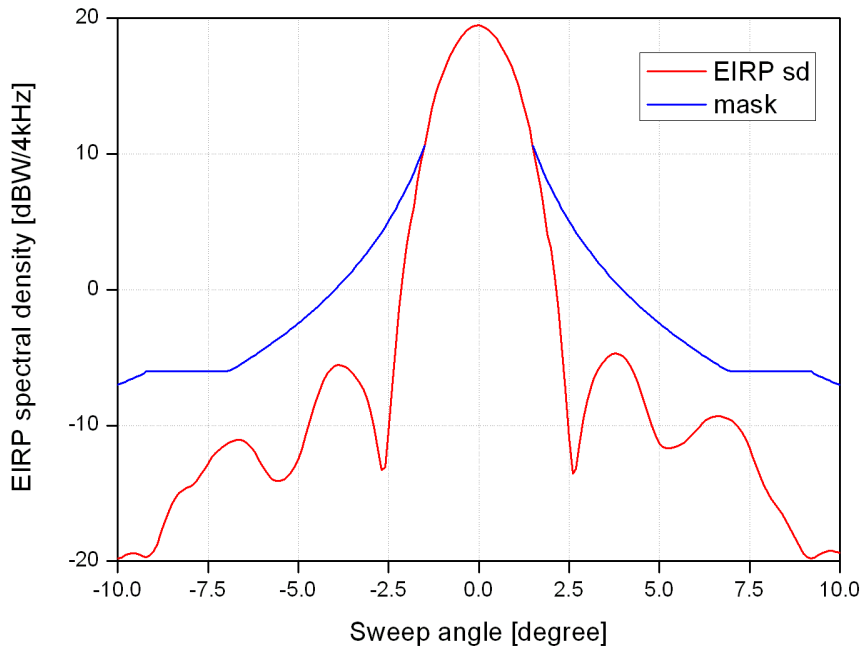
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1. EIRP Spectral Density of V80G

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



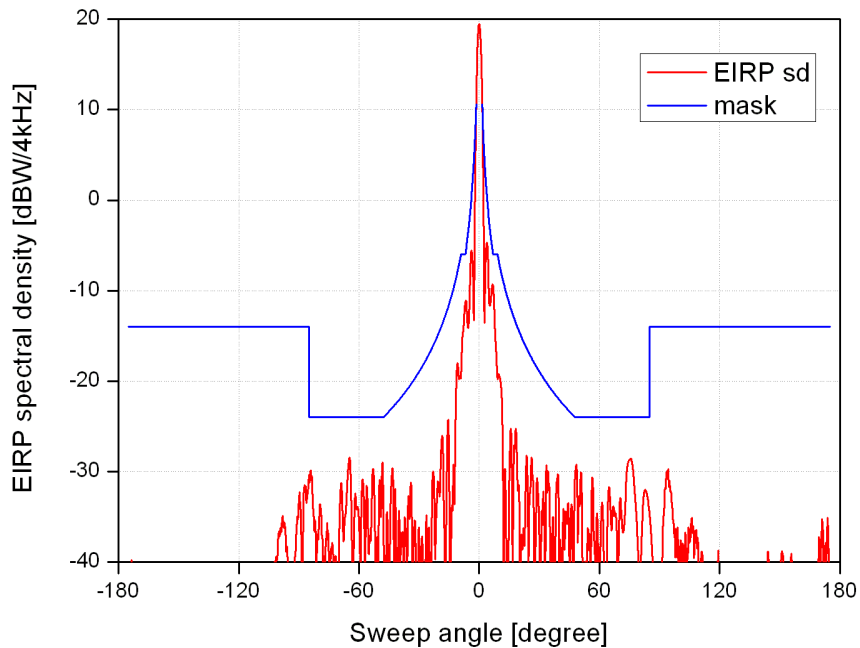
14.25GHz EIRP spectral density @ -20.13dBW/4kHz Input power spectral density

- FCC EIRP spectral density regulation**

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

The v80G's Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -20.13 dBW/ 4kHz

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



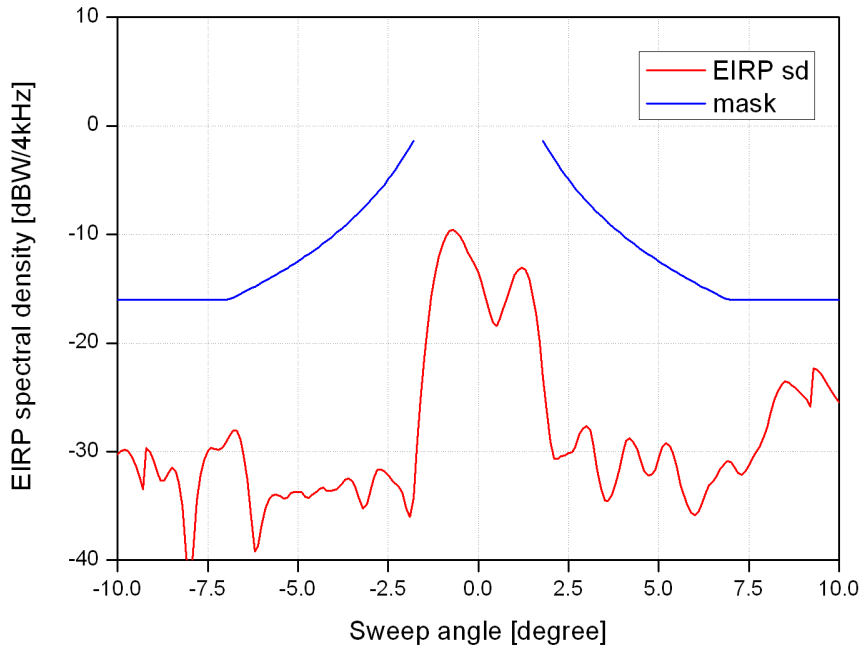
14.25GHz EIRP spectral density @ -20.13dBW/4kHz Input power spectral density

▪ **FCC EIRP spectral density regulation**

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

The v80G's Radiation pattern meets the FCC EIRP spectral density mask when the Input powers spectral density is @ -20.13 dBW/ 4kHz

1.3. Azimuth Pattern for Cross-pol, Narrow angle (-10°~10°)



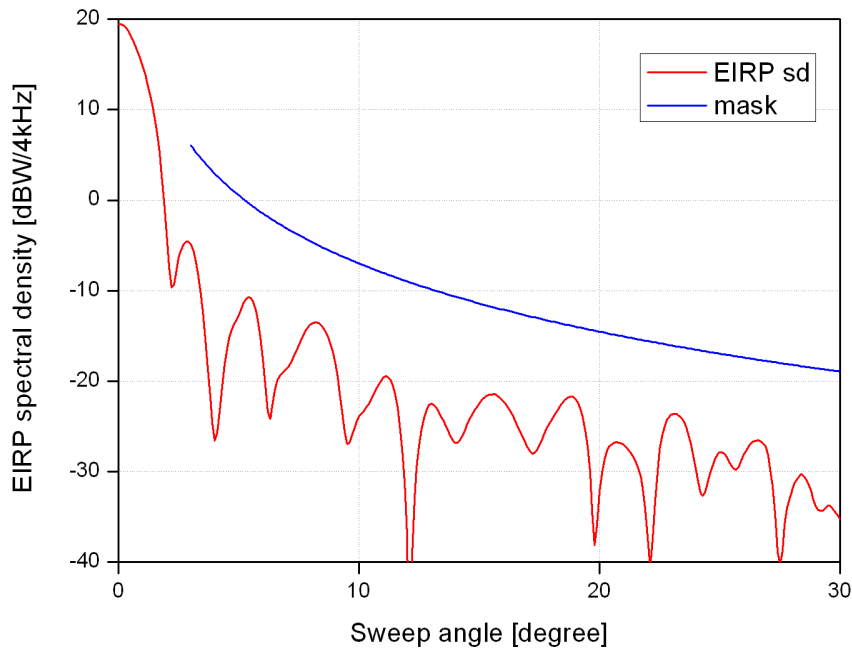
14.25GHz EIRP spectral density @ -20.13dBW/4kHz Input power spectral density

▪ **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	$7.0^\circ < \theta \leq 9.2^\circ$

The v80G's Radiation pattern meets the FCC EIRP spectral density mask when the Input powers spectral density is @ -20.13 dBW/ 4kHz

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



14.25GHz EIRP spectral density @ -20.13dBW/4kHz Input power spectral density

- **FCC EIRP spectral density regulation**

18-25log(θ)	dBW/4kHz	for	3.0° ≤ θ ≤ 48°
-24	dBW/4kHz	for	48° < θ ≤ 85°
-14	dBW/4kHz	for	85° < θ ≤ 180°

The v80G's Radiation pattern meets the FCC EIRP spectral density mask when the Input powers spectral density is @ -20.13 dBW/ 4kHz

2. EIRP Spectral Density Data

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

14.25GHz @ -20.13 dBW/4kHz			14.25GHz @ -20.13 dBW/4kHz		
Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)	Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-10.0	-19.81	-7.00	-5.0	-12.46	-2.47
-9.9	-19.72	-6.89	-4.9	-11.71	-2.25
-9.8	-19.56	-6.78	-4.8	-10.81	-2.03
-9.7	-19.44	-6.67	-4.7	-9.89	-1.80
-9.6	-19.39	-6.56	-4.6	-8.94	-1.57
-9.5	-19.40	-6.44	-4.5	-8.07	-1.33
-9.4	-19.48	-6.33	-4.4	-7.33	-1.09
-9.3	-19.65	-6.21	-4.3	-6.70	-0.84
-9.2	-19.69	-6.00	-4.2	-6.20	-0.58
-9.1	-19.53	-6.00	-4.1	-5.86	-0.32
-9.0	-19.21	-6.00	-4.0	-5.64	-0.05
-8.9	-18.68	-6.00	-3.9	-5.54	0.22
-8.8	-17.92	-6.00	-3.8	-5.56	0.51
-8.7	-17.14	-6.00	-3.7	-5.67	0.79
-8.6	-16.45	-6.00	-3.6	-5.86	1.09
-8.5	-15.79	-6.00	-3.5	-6.13	1.40
-8.4	-15.30	-6.00	-3.4	-6.46	1.71
-8.3	-14.98	-6.00	-3.3	-6.86	2.04
-8.2	-14.77	-6.00	-3.2	-7.34	2.37
-8.1	-14.61	-6.00	-3.1	-8.00	2.72
-8.0	-14.49	-6.00	-3.0	-8.90	3.07
-7.9	-14.31	-6.00	-2.9	-10.12	3.44
-7.8	-14.02	-6.00	-2.8	-11.70	3.82
-7.7	-13.63	-6.00	-2.7	-13.27	4.22
-7.6	-13.21	-6.00	-2.6	-13.09	4.63
-7.5	-12.79	-6.00	-2.5	-10.49	5.05
-7.4	-12.39	-6.00	-2.4	-7.17	5.49
-7.3	-12.07	-6.00	-2.3	-4.05	5.96
-7.2	-11.81	-6.00	-2.2	-1.36	6.44
-7.1	-11.60	-6.00	-2.1	1.03	6.94
-7.0	-11.41	-6.00	-2.0	3.19	7.47
-6.9	-11.26	-5.97	-1.9	4.87	8.03
-6.8	-11.14	-5.81	-1.8	6.13	8.62
-6.7	-11.07	-5.65	-1.7	7.87	9.24
-6.6	-11.06	-5.49	-1.6	9.45	9.90
-6.5	-11.15	-5.32	-1.5	10.59	10.60
-6.4	-11.35	-5.15	-1.4	11.98	
-6.3	-11.63	-4.98	-1.3	13.23	
-6.2	-12.02	-4.81	-1.2	14.35	
-6.1	-12.49	-4.63	-1.1	15.18	
-6.0	-12.93	-4.45	-1.0	15.92	
-5.9	-13.37	-4.27	-0.9	16.59	
-5.8	-13.75	-4.09	-0.8	17.18	
-5.7	-13.98	-3.90	-0.7	17.71	
-5.6	-14.08	-3.70	-0.6	18.18	
-5.5	-14.09	-3.51	-0.5	18.57	
-5.4	-13.98	-3.31	-0.4	18.90	
-5.3	-13.76	-3.11	-0.3	19.16	
-5.2	-13.47	-2.90	-0.2	19.34	
-5.1	-13.05	-2.69	-0.1	19.44	

14.25GHz @ -20.13 dBW/4kHz			14.25GHz @ -20.13 dBW/4kHz		
Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)	Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
0.0	19.47		5.0	-11.28	-2.47
0.1	19.41		5.1	-11.56	-2.69
0.2	19.27		5.2	-11.66	-2.90
0.3	19.07		5.3	-11.65	-3.11
0.4	18.79		5.4	-11.62	-3.31
0.5	18.44		5.5	-11.54	-3.51
0.6	18.04		5.6	-11.40	-3.70
0.7	17.58		5.7	-11.25	-3.90
0.8	17.05		5.8	-11.03	-4.09
0.9	16.46		5.9	-10.75	-4.27
1.0	15.79		6.0	-10.44	-4.45
1.1	15.05		6.1	-10.15	-4.63
1.2	13.92		6.2	-9.85	-4.81
1.3	12.94		6.3	-9.62	-4.98
1.4	11.89		6.4	-9.45	-5.15
1.5	10.43	10.60	6.5	-9.35	-5.32
1.6	9.05	9.90	6.6	-9.31	-5.49
1.7	7.65	9.24	6.7	-9.32	-5.65
1.8	6.14	8.62	6.8	-9.39	-5.81
1.9	4.12	8.03	6.9	-9.49	-5.97
2.0	3.06	7.47	7.0	-9.64	-6.00
2.1	0.93	6.94	7.1	-9.87	-6.00
2.2	-1.46	6.44	7.2	-10.17	-6.00
2.3	-4.18	5.96	7.3	-10.56	-6.00
2.4	-7.38	5.49	7.4	-11.06	-6.00
2.5	-10.91	5.05	7.5	-11.68	-6.00
2.6	-13.56	4.63	7.6	-12.36	-6.00
2.7	-13.20	4.22	7.7	-13.07	-6.00
2.8	-11.21	3.82	7.8	-13.80	-6.00
2.9	-9.46	3.44	7.9	-14.44	-6.00
3.0	-8.16	3.07	8.0	-14.96	-6.00
3.1	-7.20	2.72	8.1	-15.40	-6.00
3.2	-6.47	2.37	8.2	-15.77	-6.00
3.3	-5.92	2.04	8.3	-16.13	-6.00
3.4	-5.49	1.71	8.4	-16.51	-6.00
3.5	-5.14	1.40	8.5	-16.95	-6.00
3.6	-4.90	1.09	8.6	-17.47	-6.00
3.7	-4.75	0.79	8.7	-17.98	-6.00
3.8	-4.70	0.51	8.8	-18.53	-6.00
3.9	-4.75	0.22	8.9	-19.05	-6.00
4.0	-4.92	-0.05	9.0	-19.44	-6.00
4.1	-5.22	-0.32	9.1	-19.69	-6.00
4.2	-5.63	-0.58	9.2	-19.81	-6.00
4.3	-6.17	-0.84	9.3	-19.75	-6.21
4.4	-6.84	-1.09	9.4	-19.57	-6.33
4.5	-7.59	-1.33	9.5	-19.42	-6.44
4.6	-8.44	-1.57	9.6	-19.29	-6.56
4.7	-9.32	-1.80	9.7	-19.21	-6.67
4.8	-10.13	-2.03	9.8	-19.22	-6.78
4.9	-10.80	-2.25	9.9	-19.29	-6.89
			10.0	-19.37	-7.00

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

14.25GHz @ -20.13 dBW/4kHz			14.25GHz @ -20.13 dBW/4kHz		
Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)	Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-180.0	-53.34	-14.00	-135.0	-54.19	-14.00
-179.0	-50.45	-14.00	-134.0	-52.67	-14.00
-178.0	-48.24	-14.00	-133.0	-50.77	-14.00
-177.0	-46.45	-14.00	-132.0	-52.60	-14.00
-176.0	-44.53	-14.00	-131.0	-49.35	-14.00
-175.0	-42.42	-14.00	-130.0	-44.66	-14.00
-174.0	-42.52	-14.00	-129.0	-51.12	-14.00
-173.0	-42.63	-14.00	-128.0	-51.27	-14.00
-172.0	-48.84	-14.00	-127.0	-50.34	-14.00
-171.0	-47.90	-14.00	-126.0	-53.63	-14.00
-170.0	-48.68	-14.00	-125.0	-58.70	-14.00
-169.0	-49.83	-14.00	-124.0	-54.96	-14.00
-168.0	-51.34	-14.00	-123.0	-52.64	-14.00
-167.0	-46.78	-14.00	-122.0	-60.20	-14.00
-166.0	-68.11	-14.00	-121.0	-50.34	-14.00
-165.0	-48.39	-14.00	-120.0	-57.20	-14.00
-164.0	-72.67	-14.00	-119.0	-57.43	-14.00
-163.0	-65.38	-14.00	-118.0	-51.87	-14.00
-162.0	-53.73	-14.00	-117.0	-52.21	-14.00
-161.0	-54.30	-14.00	-116.0	-47.24	-14.00
-160.0	-49.81	-14.00	-115.0	-52.60	-14.00
-159.0	-49.72	-14.00	-114.0	-50.11	-14.00
-158.0	-55.97	-14.00	-113.0	-50.89	-14.00
-157.0	-48.64	-14.00	-112.0	-48.06	-14.00
-156.0	-58.37	-14.00	-111.0	-48.31	-14.00
-155.0	-53.78	-14.00	-110.0	-49.13	-14.00
-154.0	-46.39	-14.00	-109.0	-53.40	-14.00
-153.0	-43.51	-14.00	-108.0	-49.61	-14.00
-152.0	-55.20	-14.00	-107.0	-48.43	-14.00
-151.0	-64.32	-14.00	-106.0	-61.68	-14.00
-150.0	-47.86	-14.00	-105.0	-43.84	-14.00
-149.0	-53.58	-14.00	-104.0	-47.20	-14.00
-148.0	-47.75	-14.00	-103.0	-44.73	-14.00
-147.0	-50.18	-14.00	-102.0	-40.59	-14.00
-146.0	-44.48	-14.00	-101.0	-39.68	-14.00
-145.0	-51.11	-14.00	-100.0	-36.56	-14.00
-144.0	-50.38	-14.00	-99.0	-36.31	-14.00
-143.0	-61.42	-14.00	-98.0	-35.27	-14.00
-142.0	-47.19	-14.00	-97.0	-35.65	-14.00
-141.0	-50.09	-14.00	-96.0	-38.53	-14.00
-140.0	-57.30	-14.00	-95.0	-42.58	-14.00
-139.0	-60.22	-14.00	-94.0	-48.01	-14.00
-138.0	-59.42	-14.00	-93.0	-48.46	-14.00
-137.0	-49.77	-14.00	-92.0	-39.96	-14.00
-136.0	-71.48	-14.00	-91.0	-35.31	-14.00

14.25GHz @ -20.13 dBW/4kHz			14.25GHz @ -20.13 dBW/4kHz		
Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)	Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-90.0	-33.02	-14.00	-45.0	-52.13	-23.33
-89.0	-35.02	-14.00	-44.0	-31.75	-23.09
-88.0	-37.41	-14.00	-43.0	-31.27	-22.84
-87.0	-31.59	-14.00	-42.0	-31.78	-22.58
-86.0	-32.93	-14.00	-41.0	-38.27	-22.32
-85.0	-30.27	-24.00	-40.0	-34.58	-22.05
-84.0	-30.20	-24.00	-39.0	-36.59	-21.78
-83.0	-33.94	-24.00	-38.0	-38.83	-21.49
-82.0	-35.47	-24.00	-37.0	-35.19	-21.21
-81.0	-37.96	-24.00	-36.0	-43.80	-20.91
-80.0	-35.66	-24.00	-35.0	-33.96	-20.60
-79.0	-34.12	-24.00	-34.0	-31.17	-20.29
-78.0	-39.10	-24.00	-33.0	-40.92	-19.96
-77.0	-39.99	-24.00	-32.0	-35.81	-19.63
-76.0	-35.94	-24.00	-31.0	-42.39	-19.28
-75.0	-40.39	-24.00	-30.0	-37.47	-18.93
-74.0	-38.69	-24.00	-29.0	-41.30	-18.56
-73.0	-38.62	-24.00	-28.0	-42.15	-18.18
-72.0	-39.82	-24.00	-27.0	-41.88	-17.78
-71.0	-40.96	-24.00	-26.0	-41.48	-17.37
-70.0	-39.99	-24.00	-25.0	-37.83	-16.95
-69.0	-31.35	-24.00	-24.0	-41.28	-16.51
-68.0	-36.15	-24.00	-23.0	-29.90	-16.04
-67.0	-34.93	-24.00	-22.0	-39.60	-15.56
-66.0	-31.99	-24.00	-21.0	-31.96	-15.06
-65.0	-28.63	-24.00	-20.0	-32.01	-14.53
-64.0	-31.27	-24.00	-19.0	-27.29	-13.97
-63.0	-43.70	-24.00	-18.0	-29.68	-13.38
-62.0	-32.56	-24.00	-17.0	-43.58	-12.76
-61.0	-34.09	-24.00	-16.0	-26.36	-12.10
-60.0	-35.56	-24.00	-15.0	-30.32	-11.40
-59.0	-37.46	-24.00	-14.0	-36.73	-10.65
-58.0	-30.97	-24.00	-13.0	-29.57	-9.85
-57.0	-41.45	-24.00	-12.0	-26.49	-8.98
-56.0	-31.64	-24.00	-11.0	-18.04	-8.03
-55.0	-38.60	-24.00	-10.0	-19.71	-7.00
-54.0	-36.56	-24.00	-9.0	-19.11	-6.00
-53.0	-29.58	-24.00	-8.0	-14.39	-6.00
-52.0	-37.34	-24.00	-7.0	-11.31	-6.13
-51.0	-37.08	-24.00	-6.0	-12.83	-4.45
-50.0	-33.02	-24.00	-5.0	-12.36	-2.47
-49.0	-34.52	-24.00	-4.0	-5.54	-0.05
-48.0	-30.59	-24.03	-3.0	-8.80	3.07
-47.0	-43.97	-23.80	-2.0	3.04	7.47
-46.0	-34.38	-23.57	-1.0	16.02	

14.25GHz @ -20.13 dBW/4kHz			14.25GHz @ -20.13 dBW/4kHz		
Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)	Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
0.0	19.57		45.0	-42.99	-23.33
1.0	15.89		46.0	-33.46	-23.57
2.0	3.02	7.47	47.0	-47.03	-23.80
3.0	-8.06	3.07	48.0	-29.67	-24.03
4.0	-4.82	-0.05	49.0	-33.49	-24.00
5.0	-11.18	-2.47	50.0	-33.48	-24.00
6.0	-10.34	-4.45	51.0	-30.43	-24.00
7.0	-9.54	-6.13	52.0	-45.87	-24.00
8.0	-14.86	-6.00	53.0	-39.83	-24.00
9.0	-19.34	-6.00	54.0	-37.30	-24.00
10.0	-19.27	-7.00	55.0	-37.48	-24.00
11.0	-20.72	-8.03	56.0	-34.62	-24.00
12.0	-36.21	-8.98	57.0	-34.96	-24.00
13.0	-30.14	-9.85	58.0	-48.04	-24.00
14.0	-39.45	-10.65	59.0	-35.41	-24.00
15.0	-30.07	-11.40	60.0	-42.23	-24.00
16.0	-25.94	-12.10	61.0	-34.46	-24.00
17.0	-31.92	-12.76	62.0	-37.68	-24.00
18.0	-26.19	-13.38	63.0	-48.55	-24.00
19.0	-30.29	-13.97	64.0	-35.29	-24.00
20.0	-33.76	-14.53	65.0	-31.81	-24.00
21.0	-36.79	-15.06	66.0	-36.28	-24.00
22.0	-36.12	-15.56	67.0	-33.75	-24.00
23.0	-32.72	-16.04	68.0	-34.49	-24.00
24.0	-29.70	-16.51	69.0	-41.13	-24.00
25.0	-33.06	-16.95	70.0	-34.00	-24.00
26.0	-28.39	-17.37	71.0	-34.63	-24.00
27.0	-31.75	-17.78	72.0	-36.46	-24.00
28.0	-38.64	-18.18	73.0	-32.91	-24.00
29.0	-30.73	-18.56	74.0	-29.22	-24.00
30.0	-37.57	-18.93	75.0	-28.61	-24.00
31.0	-34.95	-19.28	76.0	-28.59	-24.00
32.0	-32.10	-19.63	77.0	-30.30	-24.00
33.0	-42.09	-19.96	78.0	-33.43	-24.00
34.0	-31.82	-20.29	79.0	-37.25	-24.00
35.0	-31.87	-20.60	80.0	-44.20	-24.00
36.0	-40.70	-20.91	81.0	-37.39	-24.00
37.0	-36.71	-21.21	82.0	-32.80	-24.00
38.0	-37.92	-21.49	83.0	-31.91	-24.00
39.0	-30.46	-21.78	84.0	-32.81	-24.00
40.0	-46.77	-22.05	85.0	-34.50	-24.00
41.0	-40.38	-22.32	86.0	-37.71	-14.00
42.0	-34.00	-22.58	87.0	-42.45	-14.00
43.0	-35.12	-22.84	88.0	-48.17	-14.00
44.0	-34.20	-23.09	89.0	-53.73	-14.00

14.25GHz @ -20.13 dBW/4kHz			14.25GHz @ -20.13 dBW/4kHz		
Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)	Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
90.0	-56.35	-14.00	135.0	-47.36	-14.00
91.0	-44.17	-14.00	136.0	-63.56	-14.00
92.0	-34.50	-14.00	137.0	-50.03	-14.00
93.0	-31.86	-14.00	138.0	-49.52	-14.00
94.0	-30.34	-14.00	139.0	-51.12	-14.00
95.0	-30.99	-14.00	140.0	-56.49	-14.00
96.0	-33.29	-14.00	141.0	-44.26	-14.00
97.0	-35.91	-14.00	142.0	-49.76	-14.00
98.0	-37.86	-14.00	143.0	-51.11	-14.00
99.0	-36.16	-14.00	144.0	-38.83	-14.00
100.0	-41.88	-14.00	145.0	-51.22	-14.00
101.0	-40.73	-14.00	146.0	-51.57	-14.00
102.0	-39.97	-14.00	147.0	-45.11	-14.00
103.0	-37.10	-14.00	148.0	-47.37	-14.00
104.0	-39.70	-14.00	149.0	-42.43	-14.00
105.0	-37.84	-14.00	150.0	-51.63	-14.00
106.0	-35.10	-14.00	151.0	-38.74	-14.00
107.0	-37.32	-14.00	152.0	-43.88	-14.00
108.0	-36.69	-14.00	153.0	-47.44	-14.00
109.0	-37.29	-14.00	154.0	-52.26	-14.00
110.0	-42.19	-14.00	155.0	-41.14	-14.00
111.0	-38.86	-14.00	156.0	-40.49	-14.00
112.0	-49.88	-14.00	157.0	-44.90	-14.00
113.0	-54.33	-14.00	158.0	-43.11	-14.00
114.0	-41.71	-14.00	159.0	-45.35	-14.00
115.0	-42.58	-14.00	160.0	-46.77	-14.00
116.0	-55.12	-14.00	161.0	-46.06	-14.00
117.0	-45.68	-14.00	162.0	-48.96	-14.00
118.0	-43.16	-14.00	163.0	-46.26	-14.00
119.0	-41.03	-14.00	164.0	-44.10	-14.00
120.0	-50.77	-14.00	165.0	-51.08	-14.00
121.0	-50.06	-14.00	166.0	-44.51	-14.00
122.0	-46.79	-14.00	167.0	-43.49	-14.00
123.0	-47.94	-14.00	168.0	-43.93	-14.00
124.0	-49.60	-14.00	169.0	-46.19	-14.00
125.0	-52.22	-14.00	170.0	-38.92	-14.00
126.0	-55.36	-14.00	171.0	-35.86	-14.00
127.0	-48.46	-14.00	172.0	-49.87	-14.00
128.0	-54.36	-14.00	173.0	-40.33	-14.00
129.0	-43.65	-14.00	174.0	-35.37	-14.00
130.0	-45.58	-14.00	175.0	-43.42	-14.00
131.0	-41.98	-14.00	176.0	-41.32	-14.00
132.0	-44.47	-14.00	177.0	-42.93	-14.00
133.0	-54.29	-14.00	178.0	-44.53	-14.00
134.0	-52.45	-14.00	179.0	-46.75	-14.00
			180.0	-49.42	-14.00

2.3. Azimuth Pattern for Cross-pol (-10°~10°)

14.25GHz @ -20.13 dBW/4kHz			14.25GHz @ -20.13 dBW/4kHz		
Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)	Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
-10.0	-30.25	-16.00	-5.0	-33.69	-12.47
-9.9	-29.95	-16.00	-4.9	-33.73	-12.25
-9.8	-29.80	-16.00	-4.8	-34.13	-12.03
-9.7	-29.94	-16.00	-4.7	-34.23	-11.80
-9.6	-30.45	-16.00	-4.6	-33.97	-11.57
-9.5	-31.24	-16.00	-4.5	-33.73	-11.33
-9.4	-32.26	-16.00	-4.4	-33.39	-11.09
-9.3	-33.50	-16.00	-4.3	-33.31	-10.84
-9.2	-29.67	-16.00	-4.2	-33.58	-10.58
-9.1	-30.03	-16.00	-4.1	-33.62	-10.32
-9.0	-30.82	-16.00	-4.0	-33.55	-10.05
-8.9	-31.94	-16.00	-3.9	-33.43	-9.78
-8.8	-32.64	-16.00	-3.8	-33.08	-9.49
-8.7	-32.65	-16.00	-3.7	-32.59	-9.21
-8.6	-31.98	-16.00	-3.6	-32.47	-8.91
-8.5	-31.49	-16.00	-3.5	-32.74	-8.60
-8.4	-31.78	-16.00	-3.4	-33.33	-8.29
-8.3	-32.84	-16.00	-3.3	-34.38	-7.96
-8.2	-35.02	-16.00	-3.2	-35.24	-7.63
-8.1	-39.57	-16.00	-3.1	-34.87	-7.28
-8.0	-43.01	-16.00	-3.0	-33.81	-6.93
-7.9	-38.51	-16.00	-2.9	-32.46	-6.56
-7.8	-34.46	-16.00	-2.8	-31.67	-6.18
-7.7	-32.13	-16.00	-2.7	-31.64	-5.78
-7.6	-30.73	-16.00	-2.6	-31.84	-5.37
-7.5	-29.94	-16.00	-2.5	-32.12	-4.95
-7.4	-29.67	-16.00	-2.4	-32.59	-4.51
-7.3	-29.74	-16.00	-2.3	-32.96	-4.04
-7.2	-29.85	-16.00	-2.2	-33.16	-3.56
-7.1	-29.65	-16.00	-2.1	-33.77	-3.06
-7.0	-29.09	-16.00	-2.0	-35.17	-2.53
-6.9	-28.56	-15.97	-1.9	-35.99	-1.97
-6.8	-28.08	-15.81	-1.8	-34.30	-1.38
-6.7	-28.06	-15.65	-1.7	-29.69	
-6.6	-28.87	-15.49	-1.6	-25.22	
-6.5	-30.43	-15.32	-1.5	-21.47	
-6.4	-32.59	-15.15	-1.4	-18.28	
-6.3	-36.05	-14.98	-1.3	-15.80	
-6.2	-39.19	-14.81	-1.2	-13.79	
-6.1	-38.66	-14.63	-1.1	-12.12	
-6.0	-36.68	-14.45	-1.0	-10.98	
-5.9	-35.17	-14.27	-0.9	-10.16	
-5.8	-34.34	-14.09	-0.8	-9.67	
-5.7	-34.00	-13.90	-0.7	-9.59	
-5.6	-33.94	-13.70	-0.6	-9.82	
-5.5	-34.06	-13.51	-0.5	-10.24	
-5.4	-34.29	-13.31	-0.4	-10.89	
-5.3	-34.25	-13.11	-0.3	-11.57	
-5.2	-33.84	-12.90	-0.2	-12.19	
-5.1	-33.72	-12.69	-0.1	-12.85	

14.25GHz @ -20.13 dBW/4kHz			14.25GHz @ -20.13 dBW/4kHz		
Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)	Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
0.0	-13.51		5.0	-30.63	-12.47
0.1	-14.48		5.1	-29.56	-12.69
0.2	-15.79		5.2	-29.22	-12.90
0.3	-17.01		5.3	-29.45	-13.11
0.4	-18.09		5.4	-30.10	-13.31
0.5	-18.43		5.5	-31.38	-13.51
0.6	-17.81		5.6	-32.99	-13.70
0.7	-16.71		5.7	-34.05	-13.90
0.8	-15.76		5.8	-34.92	-14.09
0.9	-14.70		5.9	-35.58	-14.27
1.0	-13.76		6.0	-35.82	-14.45
1.1	-13.29		6.1	-35.53	-14.63
1.2	-13.07		6.2	-34.84	-14.81
1.3	-13.24		6.3	-33.88	-14.98
1.4	-14.10		6.4	-33.09	-15.15
1.5	-15.49		6.5	-32.78	-15.32
1.6	-17.26		6.6	-32.24	-15.49
1.7	-19.97		6.7	-31.63	-15.65
1.8	-23.20	-1.38	6.8	-31.27	-15.81
1.9	-26.24	-1.97	6.9	-30.89	-15.97
2.0	-29.09	-2.53	7.0	-30.94	-16.00
2.1	-30.64	-3.06	7.1	-31.50	-16.00
2.2	-30.63	-3.56	7.2	-31.97	-16.00
2.3	-30.42	-4.04	7.3	-32.13	-16.00
2.4	-30.34	-4.51	7.4	-31.84	-16.00
2.5	-30.12	-4.95	7.5	-31.25	-16.00
2.6	-30.07	-5.37	7.6	-30.63	-16.00
2.7	-29.52	-5.78	7.7	-30.07	-16.00
2.8	-28.42	-6.18	7.8	-29.52	-16.00
2.9	-27.86	-6.56	7.9	-28.73	-16.00
3.0	-27.66	-6.93	8.0	-27.76	-16.00
3.1	-27.99	-7.28	8.1	-26.55	-16.00
3.2	-29.54	-7.63	8.2	-25.28	-16.00
3.3	-31.79	-7.96	8.3	-24.44	-16.00
3.4	-33.35	-8.29	8.4	-23.85	-16.00
3.5	-34.49	-8.60	8.5	-23.52	-16.00
3.6	-34.55	-8.91	8.6	-23.62	-16.00
3.7	-34.01	-9.21	8.7	-23.91	-16.00
3.8	-33.02	-9.49	8.8	-24.16	-16.00
3.9	-31.72	-9.78	8.9	-24.50	-16.00
4.0	-30.13	-10.05	9.0	-24.79	-16.00
4.1	-28.99	-10.32	9.1	-25.14	-16.00
4.2	-28.79	-10.58	9.2	-25.85	-16.00
4.3	-29.16	-10.84	9.3	-22.33	-16.00
4.4	-29.74	-11.09	9.4	-22.46	-16.00
4.5	-30.75	-11.33	9.5	-22.79	-16.00
4.6	-31.75	-11.57	9.6	-23.41	-16.00
4.7	-32.16	-11.80	9.7	-23.99	-16.00
4.8	-32.10	-12.03	9.8	-24.45	-16.00
4.9	-31.65	-12.25	9.9	-24.95	-16.00
			10.0	-25.49	-16.00

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

14.25GHz @ -20.13 dBW/4kHz			14.25GHz @ -20.13 dBW/4kHz		
Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)	Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
0.0	19.47		5.0	-12.62	0.53
0.1	19.44		5.1	-11.94	0.31
0.2	19.31		5.2	-11.33	0.10
0.3	19.07		5.3	-10.96	-0.11
0.4	18.69		5.4	-10.75	-0.31
0.5	18.22		5.5	-10.81	-0.51
0.6	17.68		5.6	-11.29	-0.70
0.7	17.03		5.7	-12.12	-0.90
0.8	16.34		5.8	-13.28	-1.09
0.9	15.59		5.9	-15.10	-1.27
1.0	14.78		6.0	-17.55	-1.45
1.1	13.90		6.1	-20.42	-1.63
1.2	12.92		6.2	-23.41	-1.81
1.3	11.83		6.3	-24.22	-1.98
1.4	10.55		6.4	-22.77	-2.15
1.5	9.05		6.5	-21.06	-2.32
1.6	7.33		6.6	-19.95	-2.49
1.7	5.23		6.7	-19.42	-2.65
1.8	2.74		6.8	-19.11	-2.81
1.9	-0.15		6.9	-18.82	-2.97
2.0	-3.65		7.0	-18.59	-3.13
2.1	-7.41		7.1	-18.31	-3.28
2.2	-9.66		7.2	-17.79	-3.43
2.3	-9.31		7.3	-17.17	-3.58
2.4	-7.70		7.4	-16.60	-3.73
2.5	-6.40		7.5	-15.93	-3.88
2.6	-5.54		7.6	-15.29	-4.02
2.7	-4.92		7.7	-14.79	-4.16
2.8	-4.58		7.8	-14.33	-4.30
2.9	-4.56		7.9	-13.95	-4.44
3.0	-4.89	6.07	8.0	-13.70	-4.58
3.1	-5.52	5.72	8.1	-13.56	-4.71
3.2	-6.50	5.37	8.2	-13.50	-4.85
3.3	-8.04	5.04	8.3	-13.58	-4.98
3.4	-9.95	4.71	8.4	-13.76	-5.11
3.5	-12.27	4.40	8.5	-14.05	-5.24
3.6	-15.31	4.09	8.6	-14.47	-5.36
3.7	-18.62	3.79	8.7	-15.04	-5.49
3.8	-21.72	3.51	8.8	-15.81	-5.61
3.9	-24.52	3.22	8.9	-16.77	-5.73
4.0	-26.58	2.95	9.0	-17.95	-5.86
4.1	-25.67	2.68	9.1	-19.53	-5.98
4.2	-23.33	2.42	9.2	-21.36	-6.09
4.3	-20.57	2.16	9.3	-23.43	-6.21
4.4	-18.06	1.91	9.4	-25.60	-6.33
4.5	-16.38	1.67	9.5	-26.94	-6.44
4.6	-15.23	1.43	9.6	-26.77	-6.56
4.7	-14.36	1.20	9.7	-25.88	-6.67
4.8	-13.71	0.97	9.8	-25.14	-6.78
4.9	-13.19	0.75	9.9	-24.44	-6.89

14.25GHz @ -20.13 dBW/4kHz			14.25GHz @ -20.13 dBW/4kHz		
Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)	Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
10.0	-23.91	-7.00	15.0	-22.43	-11.40
10.1	-23.58	-7.11	15.1	-22.11	-11.47
10.2	-23.25	-7.22	15.2	-21.84	-11.55
10.3	-22.85	-7.32	15.3	-21.62	-11.62
10.4	-22.46	-7.43	15.4	-21.50	-11.69
10.5	-22.02	-7.53	15.5	-21.44	-11.76
10.6	-21.49	-7.63	15.6	-21.44	-11.83
10.7	-20.92	-7.73	15.7	-21.51	-11.90
10.8	-20.43	-7.84	15.8	-21.67	-11.97
10.9	-19.96	-7.94	15.9	-21.90	-12.03
11.0	-19.56	-8.03	16.0	-22.19	-12.10
11.1	-19.42	-8.13	16.1	-22.57	-12.17
11.2	-19.49	-8.23	16.2	-22.98	-12.24
11.3	-19.78	-8.33	16.3	-23.42	-12.30
11.4	-20.42	-8.42	16.4	-23.90	-12.37
11.5	-21.49	-8.52	16.5	-24.43	-12.44
11.6	-22.88	-8.61	16.6	-25.00	-12.50
11.7	-24.80	-8.70	16.7	-25.57	-12.57
11.8	-27.51	-8.80	16.8	-26.16	-12.63
11.9	-31.13	-8.89	16.9	-26.75	-12.70
12.0	-37.02	-8.98	17.0	-27.26	-12.76
12.1	-58.99	-9.07	17.1	-27.68	-12.82
12.2	-39.18	-9.16	17.2	-27.97	-12.89
12.3	-32.97	-9.25	17.3	-27.96	-12.95
12.4	-29.58	-9.34	17.4	-27.60	-13.01
12.5	-27.14	-9.42	17.5	-27.04	-13.08
12.6	-25.32	-9.51	17.6	-26.48	-13.14
12.7	-24.11	-9.60	17.7	-25.86	-13.20
12.8	-23.20	-9.68	17.8	-25.28	-13.26
12.9	-22.61	-9.76	17.9	-24.78	-13.32
13.0	-22.46	-9.85	18.0	-24.31	-13.38
13.1	-22.58	-9.93	18.1	-23.83	-13.44
13.2	-22.83	-10.01	18.2	-23.40	-13.50
13.3	-23.31	-10.10	18.3	-23.01	-13.56
13.4	-23.89	-10.18	18.4	-22.65	-13.62
13.5	-24.35	-10.26	18.5	-22.27	-13.68
13.6	-24.94	-10.34	18.6	-21.97	-13.74
13.7	-25.56	-10.42	18.7	-21.79	-13.80
13.8	-26.02	-10.50	18.8	-21.67	-13.85
13.9	-26.52	-10.58	18.9	-21.69	-13.91
14.0	-26.83	-10.65	19.0	-21.94	-13.97
14.1	-26.77	-10.73	19.1	-22.36	-14.03
14.2	-26.42	-10.81	19.2	-22.96	-14.08
14.3	-25.94	-10.88	19.3	-23.97	-14.14
14.4	-25.35	-10.96	19.4	-25.42	-14.20
14.5	-24.73	-11.03	19.5	-27.23	-14.25
14.6	-24.18	-11.11	19.6	-30.05	-14.31
14.7	-23.68	-11.18	19.7	-34.29	-14.36
14.8	-23.22	-11.26	19.8	-38.09	-14.42
14.9	-22.81	-11.33	19.9	-35.88	-14.47

14.25GHz @ -20.13 dBW/4kHz			14.25GHz @ -20.13 dBW/4kHz		
Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)	Angle (Degree)	EIRP SD (dBW/4kHz)	Mask (dBW/4kHz)
20.0	-32.21	-14.53	25.0	-27.88	-16.95
20.1	-30.10	-14.58	25.1	-27.84	-16.99
20.2	-28.63	-14.63	25.2	-28.01	-17.04
20.3	-27.67	-14.69	25.3	-28.46	-17.08
20.4	-27.23	-14.74	25.4	-28.97	-17.12
20.5	-26.99	-14.79	25.5	-29.42	-17.16
20.6	-26.80	-14.85	25.6	-29.73	-17.21
20.7	-26.75	-14.90	25.7	-29.73	-17.25
20.8	-26.78	-14.95	25.8	-29.39	-17.29
20.9	-26.85	-15.00	25.9	-28.74	-17.33
21.0	-27.00	-15.06	26.0	-28.11	-17.37
21.1	-27.24	-15.11	26.1	-27.61	-17.42
21.2	-27.55	-15.16	26.2	-27.13	-17.46
21.3	-27.93	-15.21	26.3	-26.80	-17.50
21.4	-28.35	-15.26	26.4	-26.69	-17.54
21.5	-28.90	-15.31	26.5	-26.56	-17.58
21.6	-29.60	-15.36	26.6	-26.48	-17.62
21.7	-30.44	-15.41	26.7	-26.64	-17.66
21.8	-31.81	-15.46	26.8	-26.86	-17.70
21.9	-34.12	-15.51	26.9	-27.25	-17.74
22.0	-37.29	-15.56	27.0	-28.24	-17.78
22.1	-40.53	-15.61	27.1	-29.75	-17.82
22.2	-37.49	-15.66	27.2	-31.57	-17.86
22.3	-33.26	-15.71	27.3	-34.64	-17.90
22.4	-29.96	-15.76	27.4	-38.82	-17.94
22.5	-27.55	-15.80	27.5	-40.30	-17.98
22.6	-26.10	-15.85	27.6	-38.70	-18.02
22.7	-25.05	-15.90	27.7	-35.86	-18.06
22.8	-24.28	-15.95	27.8	-34.00	-18.10
22.9	-23.88	-16.00	27.9	-33.03	-18.14
23.0	-23.70	-16.04	28.0	-32.08	-18.18
23.1	-23.59	-16.09	28.1	-31.28	-18.22
23.2	-23.63	-16.14	28.2	-30.81	-18.26
23.3	-23.82	-16.18	28.3	-30.45	-18.29
23.4	-24.06	-16.23	28.4	-30.25	-18.33
23.5	-24.47	-16.28	28.5	-30.45	-18.37
23.6	-25.09	-16.32	28.6	-30.92	-18.41
23.7	-25.86	-16.37	28.7	-31.46	-18.45
23.8	-26.89	-16.41	28.8	-32.20	-18.48
23.9	-28.22	-16.46	28.9	-33.08	-18.52
24.0	-29.65	-16.51	29.0	-33.82	-18.56
24.1	-31.19	-16.55	29.1	-34.19	-18.60
24.2	-32.38	-16.60	29.2	-34.28	-18.63
24.3	-32.67	-16.64	29.3	-34.27	-18.67
24.4	-32.24	-16.68	29.4	-34.01	-18.71
24.5	-31.19	-16.73	29.5	-33.70	-18.75
24.6	-30.15	-16.77	29.6	-33.73	-18.78
24.7	-29.31	-16.82	29.7	-34.08	-18.82
24.8	-28.56	-16.86	29.8	-34.46	-18.86
24.9	-28.08	-16.90	29.9	-34.80	-18.89
			30.0	-35.21	-18.93