

Demonstration of Compliance with Section 25.222

In response to Section 25.222(a) and (b) of the FCC's Rules, MTN License Corp. ("MTN") provides the following information and demonstrations with respect to the two Ku-band ESV remote antenna types proposed to be added to MTN's Ku-band ESV network licensed under Call Sign E010332. The two antenna types are Intellian Model v110 and Thrane & Thrane Model TT-7090A Sailor 900 – which are referred to in this application as ESV Remote 5 and ESV Remote 6, respectively.¹ The supporting documentation required under the FCC's Rules is provided in the form of Intellian's FCC Declaration of Conformation and the Declaration of Thrane & Thrane A/S, both of which are attached to this Exhibit 43.²

1. Off-Axis EIRP Spectral Density – 25.222(a)(1) & 25.222(b)(1)

ESV Remote 5 and ESV Remote 6 will each meet the off-axis effective isotropically radiated power ("EIRP") spectral density envelop set forth in Section 25.222(a)(1)(i)(A) through (a)(1)(i)(C), using an N value of 1. *See* Intellian's FCC Declaration of Conformity and accompany tables, and Declaration of Thrane & Thrane A/S and accompanying tables.

2. Pointing Error and Auto-Shut Off – 25.222(a)(1)(ii), 25.222(a)(1)(iii) & 25.222(b)(1)(iii)

The attached declaration from Intellian states that ESV Remote 5 will maintain the antenna pointing requirements set forth in Section 25.222(a)(1)(ii)(A), and will meet the cessation of emission requirements set forth in Section 25.222(a)(1)(iii)(A).

The attached declaration from Thrane & Thrane states that ESV Remote 6 will maintain the antenna pointing requirements set forth in Section 25.222(a)(1)(ii)(A), and will meet the cessation of emission requirements set forth in Section 25.222(a)(1)(iii)(A).

3. Geographic Areas – 25.222(b)(3)

ESV Remote 5 and ESV Remote 6 will operate in the Atlantic Ocean, Pacific Ocean, Gulf of Mexico, Caribbean Sea and navigable inland water ways, subject to the requirements of Sections 25.222(c) and (d).

¹ MTN's Ku-band ESV network license already includes authorizations for four ESV remote types, which are designated in the license as ESV Remotes 1 through 4.

² Intellian's FCC Declaration of Conformity and the Declaration of Thrane & Thrane A/S have previously been submitted in comparable form to the FCC in support of applications requesting authority to operate the antenna model types requested here by MTN. *See* FCC File No. SES-MOD-20110128-00069 (granted March 10, 2011) (Vizanda, Inc. request to add up to 500 Intellian v110 remote units); FCC File No. SES-LIC-20120315-00272 (accepted for filing in Public Notice SES-01455, June 6, 2012) (Globecom Systems, Inc. request to add Thrane & Thrane Sailor 900 antenna).

4. Point of Contact in the United States – 25.222(b)(4)

MTN maintains a Network Operations Center (“NOC”) at its headquarters in Miramar, Florida on a 24-hours-a-day, 365-days-a-year basis. The NOC’s address and telephone number are:

3044 N. Commerce Parkway
Miramar, FL 33025
Tel. (954) 538-4074

All MTN ESV systems are monitored and their emissions are controlled from the NOC, which has the authority and ability to cease all emissions from the ESVs.

5. Excessive Radiation – 25.222(b)(5)

ESV Remote 5 and ESV Remote 6 do not exceed the radiation guidelines of Section 1.1310 of the FCC’s Rules, as demonstrated by the Radiation Hazard Studies included as Exhibit B to the application.

MTN confirms that it will comply with the requirements set forth in Sections 25.222(a)(3) through (a)(7).

Use of Non-U.S. Licensed Satellites

MTN specifies, pursuant to Section 25.137(a) of the FCC’s Rules, that the only non-U.S. licensed satellites to be accessed by the antennas proposed to be added as remote units authorized under Call Sign E010332 are those included on the FCC’s Permitted Space Station List.

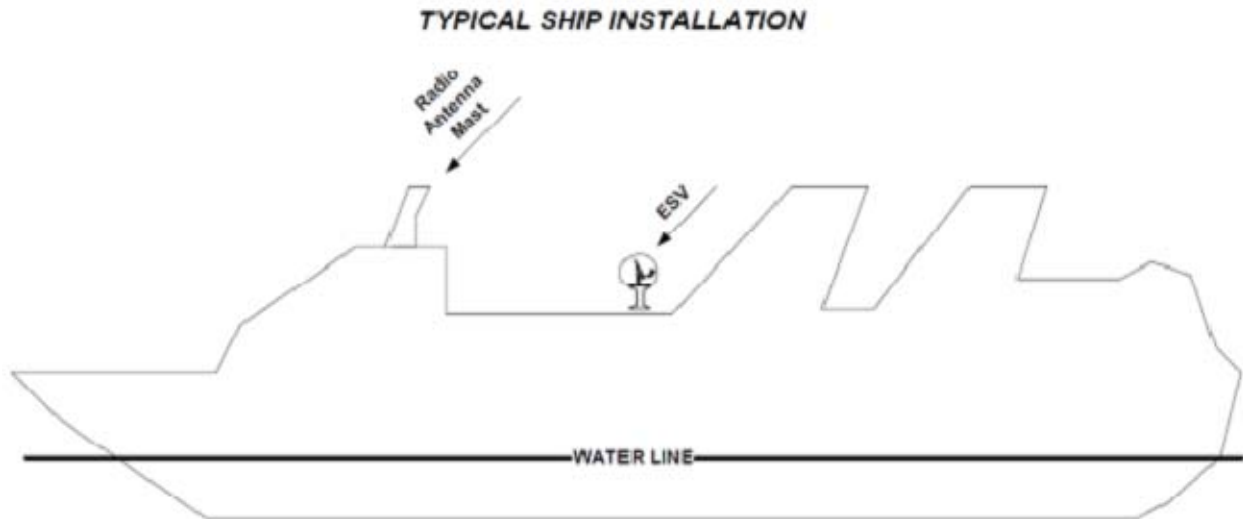
Commission Denial of Applications

In 1998, Maritime Telecommunications Network, Inc., which wholly owns the applicant MTN License Corp., applied to the Commission for authority to establish 32 earth stations to provide fixed-satellite service on a primary basis in 17 U.S. seaports. *See Applications for Fixed Earth Station Licenses, File Nos. SES-LIC-19980911-01272, et al.* In a 2000 decision in *Maritime Telecommunications Network, Inc.*, 15 FCC Rcd 23210 (Int’l Bur. 2000) (subsequent history omitted), the International Bureau denied Maritime Telecommunications Network’s applications on the ground that the Commission does not have jurisdiction to license earth stations on foreign vessels.

FAA Notification

ESV Remote 5 and ESV Remote 6 are exempt from notification to the Federal Aviation Administration because, as illustrated on the attached diagram, each such antenna will be

shielded by existing permanent structures of greater height on the vessel. *See* 47 C.F.R. § 17.14(a).



FCC Declaration of Conformity

Intellian Technologies, manufactures of stabilized maritime VSAT antenna systems for satellite communication at sea, supplies stabilized maritime VSAT antenna systems to the satellite communication service providers for their ESV (Earth Station on Vessels) networks.

FCC §25.222 defines the provisions for blanket licensing of ESV antennas operation in the Ku-band. It defines the antennas radiation, and each article regulates the followings;

- §25.222 (a)(1)(i)(A): Regulation for Azimuth Direction & Co Polarization
- §25.222 (a)(2)(i)(B): Regulation for Other Direction & Co Polarization
- §25.222 (a)(1)(i)(C): Regulation for Cross Polarization

Intellian Technologies, Inc. declares that the below identified products comply with the threshold level as defined in §25.222(a)(1)(i)(A);, and declares that the products are in accordance with all defined regulations from §25.222(a)(1)(i)(B) to §25.222(a)(1)(i)(C) at the below stated input power spectral density, with an N value of 1.

Product description	EIRP spectral density limit
Intellian v60, 60cm Ku-band maritime VSAT antenna system	-22.3 dBW/ 4KHz
Intellian v110, 105cm Ku-band maritime VSAT antenna system	-16.2 dBW/ 4KHz
Intellian v130, 125cm Ku-band maritime VSAT antenna system	-14.0 dBW/ 4KHz

Intellian Technologies, Inc. declares that the above antennas will maintain a pointing error of less than or equal to 0.2 degree under specified ship motion conditions in accordance with the requirements of §25.222 (a)(1)(ii).

Intellian Technologies, Inc. declares that the above antennas will automatically cease the transmission within 100 mute command to the modem within 100 milliseconds if the target satellite and the axis of the main lobe of the ESV antenna exceeds 0.5 degree and will not resume until such angle is less than or equal to 0.2 degree in accordance with the requirements of §25.222 (a)(1)(iii)

Radiation pattern data is available upon request to verify the conformance.

Authority: Steve Cha
/ Director, R&D



Signature:  _____

Date: Aug 01, 2010

Final

EIRP Spectral Density

- Model Name: Intellian v110
- Test Date: Nov 26 - 27, 2009

Reviewed by	Approved by
	

RF Design Dept, R&D/ Intellian Technologies, Inc.

Customer	Approved by

Note: Confidential and Intellian proprietary

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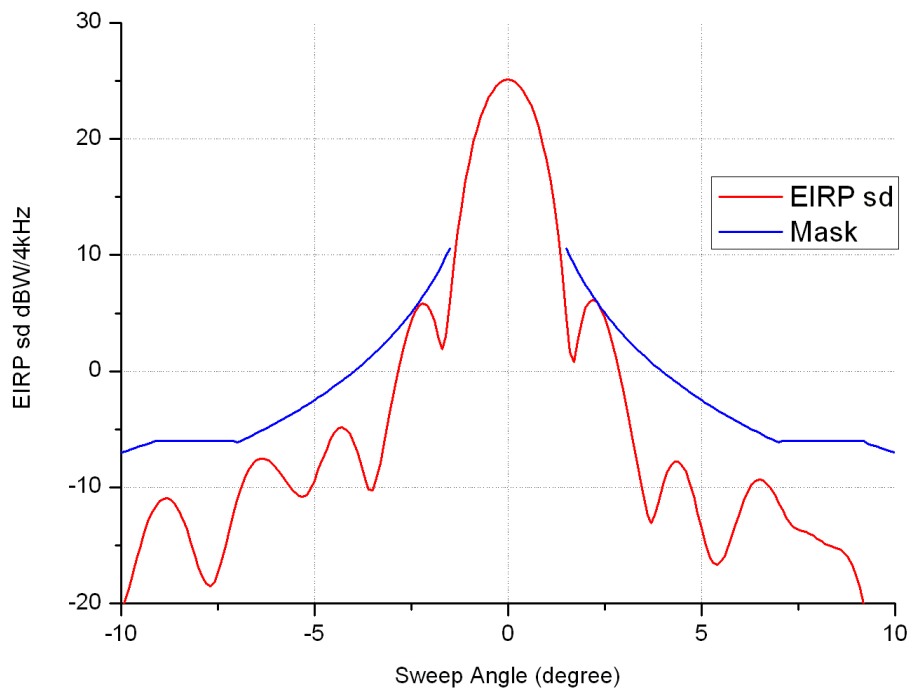
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1. EIRP Spectral Density of v110

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

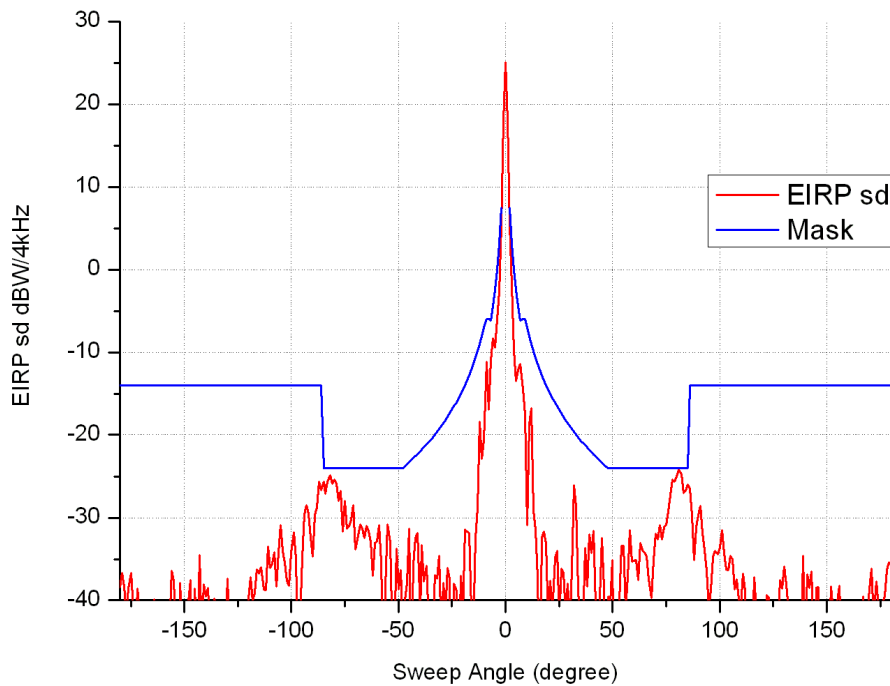


- FCC EIRP spectral density regulation

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	$85^\circ < \theta \leq 180^\circ$

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

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



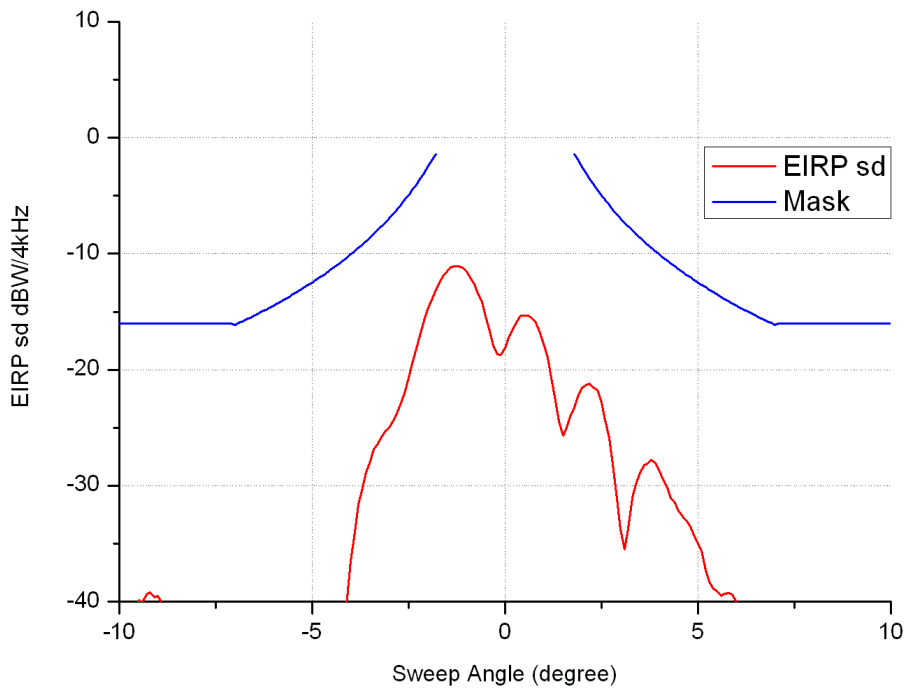
14.25 GHz @ -16.2 dBW/4kHz , 0.7dB Radome Loss

- FCC EIRP spectral density regulation

15-25log(θ)	dBW/4kHz	for	1.5° ≤ θ ≤ 7.0°
-6	dBW/4kHz	for	7.0° < θ ≤ 9.2°
18-25log(θ)	dBW/4kHz	for	9.2° < θ ≤ 48°
-24	dBW/4kHz	for	48° < θ ≤ 85°
-14	dBW/4kHz	for	85° < θ ≤ 180°

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

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



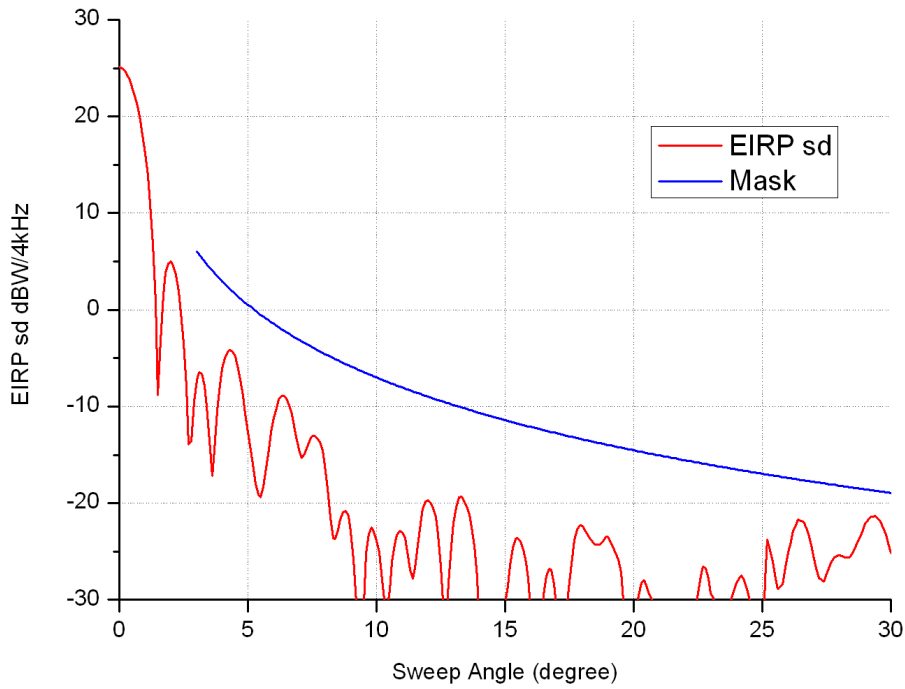
14.25 GHz @ -16.2 dBW/4kHz , 0.7dB Radome Loss

- FCC EIRP spectral density regulation

5-25log(θ)	dBW/4kHz	for	1.8° ≤ θ ≤ 7.0°
-16	dBW/4kHz	for	7.0° < θ ≤ 9.2°

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

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

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

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

2. EIRP Spectral Density Data

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

14.25GHz@ -16.2 dBW/ 4KHz

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
-10.0	-20.59	-7.00
-9.9	-19.66	-6.89
-9.8	-18.73	-6.78
-9.7	-17.29	-6.67
-9.6	-16.18	-6.56
-9.5	-15.00	-6.44
-9.4	-13.82	-6.33
-9.3	-12.77	-6.21
-9.2	-12.13	-6.09
-9.1	-11.59	-5.98
-9.0	-11.16	-6.00
-8.9	-10.96	-6.00
-8.8	-10.94	-6.00
-8.7	-11.10	-6.00
-8.6	-11.47	-6.00
-8.5	-12.09	-6.00
-8.4	-12.78	-6.00
-8.3	-13.60	-6.00
-8.2	-14.76	-6.00
-8.1	-15.79	-6.00
-8.0	-16.92	-6.00
-7.9	-17.72	-6.00
-7.8	-18.27	-6.00
-7.7	-18.46	-6.00
-7.6	-18.19	-6.00
-7.5	-17.32	-6.00
-7.4	-16.33	-6.00
-7.3	-15.07	-6.00
-7.2	-13.51	-6.00
-7.1	-12.28	-6.00
-7.0	-10.95	-6.13
-6.9	-10.04	-5.97
-6.8	-9.07	-5.81
-6.7	-8.46	-5.65
-6.6	-7.93	-5.49
-6.5	-7.62	-5.32
-6.4	-7.52	-5.15
-6.3	-7.50	-4.98
-6.2	-7.64	-4.81
-6.1	-7.89	-4.63
-6.0	-8.31	-4.45
-5.9	-8.71	-4.27
-5.8	-9.20	-4.09
-5.7	-9.61	-3.90
-5.6	-10.11	-3.70
-5.5	-10.43	-3.51
-5.4	-10.75	-3.31
-5.3	-10.81	-3.11
-5.2	-10.65	-2.90
-5.1	-10.14	-2.69

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
-5.0	-9.44	-2.47
-4.9	-8.42	-2.25
-4.8	-7.58	-2.03
-4.7	-6.76	-1.80
-4.6	-5.92	-1.57
-4.5	-5.38	-1.33
-4.4	-4.96	-1.09
-4.3	-4.85	-0.84
-4.2	-4.98	-0.58
-4.1	-5.30	-0.32
-4.0	-6.04	-0.05
-3.9	-6.89	0.22
-3.8	-7.95	0.51
-3.7	-9.23	0.79
-3.6	-10.17	1.09
-3.5	-10.24	1.40
-3.4	-9.21	1.71
-3.3	-7.87	2.04
-3.2	-6.15	2.37
-3.1	-4.21	2.72
-3.0	-2.64	3.07
-2.9	-0.86	3.44
-2.8	0.56	3.82
-2.7	2.10	4.22
-2.6	3.21	4.63
-2.5	4.35	5.05
-2.4	5.11	5.49
-2.3	5.67	5.96
-2.2	5.87	6.44
-2.1	5.73	6.94
-2.0	5.22	7.47
-1.9	4.34	8.03
-1.8	2.79	8.62
-1.7	1.91	9.24
-1.6	3.03	9.90
-1.5	6.01	10.60
-1.4	9.54	
-1.3	12.10	
-1.2	14.28	
-1.1	16.46	
-1.0	18.05	
-0.9	19.68	
-0.8	20.86	
-0.7	22.00	
-0.6	22.79	
-0.5	23.58	
-0.4	24.10	
-0.3	24.58	
-0.2	24.88	
-0.1	25.07	

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

14.25GHz@ -16.2 dBW/ 4KHz

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
0.0	25.12	
0.1	25.06	
0.2	24.85	
0.3	24.57	
0.4	24.07	
0.5	23.55	
0.6	22.90	
0.7	21.93	
0.8	20.94	
0.9	19.57	
1.0	18.14	
1.1	16.26	
1.2	14.28	
1.3	11.53	
1.4	8.67	
1.5	4.63	10.60
1.6	1.64	9.90
1.7	0.77	9.24
1.8	2.56	8.62
1.9	4.22	8.03
2.0	5.47	7.47
2.1	5.99	6.94
2.2	6.14	6.44
2.3	5.95	5.96
2.4	5.34	5.49
2.5	4.61	5.05
2.6	3.67	4.63
2.7	2.33	4.22
2.8	1.16	3.82
2.9	-0.49	3.44
3.0	-1.88	3.07
3.1	-3.70	2.72
3.2	-5.35	2.37
3.3	-7.22	2.04
3.4	-8.83	1.71
3.5	-10.66	1.40
3.6	-12.36	1.09
3.7	-13.05	0.79
3.8	-12.36	0.51
3.9	-11.16	0.22
4.0	-9.73	-0.05
4.1	-8.75	-0.32
4.2	-8.12	-0.58
4.3	-7.77	-0.84
4.4	-7.75	-1.09
4.5	-8.12	-1.33
4.6	-8.64	-1.57
4.7	-9.66	-1.80
4.8	-10.72	-2.03
4.9	-12.19	-2.25

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
5.0	-13.50	-2.47
5.1	-14.75	-2.69
5.2	-15.90	-2.90
5.3	-16.48	-3.11
5.4	-16.67	-3.31
5.5	-16.37	-3.51
5.6	-15.92	-3.70
5.7	-15.07	-3.90
5.8	-14.02	-4.09
5.9	-13.07	-4.27
6.0	-12.08	-4.45
6.1	-11.07	-4.63
6.2	-10.36	-4.81
6.3	-9.77	-4.98
6.4	-9.47	-5.15
6.5	-9.34	-5.32
6.6	-9.40	-5.49
6.7	-9.69	-5.65
6.8	-10.09	-5.81
6.9	-10.69	-5.97
7.0	-11.35	-6.13
7.1	-11.94	-6.00
7.2	-12.64	-6.00
7.3	-13.14	-6.00
7.4	-13.44	-6.00
7.5	-13.63	-6.00
7.6	-13.77	-6.00
7.7	-13.84	-6.00
7.8	-13.98	-6.00
7.9	-14.13	-6.00
8.0	-14.40	-6.00
8.1	-14.61	-6.00
8.2	-14.86	-6.00
8.3	-14.99	-6.00
8.4	-15.11	-6.00
8.5	-15.21	-6.00
8.6	-15.37	-6.00
8.7	-15.66	-6.00
8.8	-16.05	-6.00
8.9	-16.70	-6.00
9.0	-17.49	-6.00
9.1	-18.70	-6.00
9.2	-20.04	-6.00
9.3	-22.04	-6.21
9.4	-23.91	-6.33
9.5	-26.65	-6.44
9.6	-29.15	-6.56
9.7	-31.08	-6.67
9.8	-31.66	-6.78
9.9	-31.69	-6.89
10.0	-30.87	-7.00

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

14.25GHz@ -16.2 dBW/ 4KHz

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
-180.0	-38.45	-14.00
-179.0	-36.72	-14.00
-178.0	-38.34	-14.00
-177.0	-41.54	-14.00
-176.0	-38.61	-14.00
-175.0	-36.72	-14.00
-174.0	-39.44	-14.00
-173.0	-45.12	-14.00
-172.0	-38.59	-14.00
-171.0	-41.29	-14.00
-170.0	-41.94	-14.00
-169.0	-46.74	-14.00
-168.0	-46.08	-14.00
-167.0	-48.49	-14.00
-166.0	-40.38	-14.00
-165.0	-44.75	-14.00
-164.0	-39.92	-14.00
-163.0	-45.64	-14.00
-162.0	-50.79	-14.00
-161.0	-45.67	-14.00
-160.0	-42.38	-14.00
-159.0	-55.14	-14.00
-158.0	-59.58	-14.00
-157.0	-43.17	-14.00
-156.0	-36.44	-14.00
-155.0	-37.60	-14.00
-154.0	-43.88	-14.00
-153.0	-54.07	-14.00
-152.0	-37.89	-14.00
-151.0	-43.67	-14.00
-150.0	-44.19	-14.00
-149.0	-42.63	-14.00
-148.0	-40.14	-14.00
-147.0	-37.56	-14.00
-146.0	-54.81	-14.00
-145.0	-38.54	-14.00
-144.0	-46.82	-14.00
-143.0	-34.51	-14.00
-142.0	-44.31	-14.00
-141.0	-38.07	-14.00
-140.0	-39.50	-14.00
-139.0	-38.46	-14.00
-138.0	-44.31	-14.00
-137.0	-41.91	-14.00
-136.0	-39.79	-14.00

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
-135.0	-40.72	-14.00
-134.0	-41.07	-14.00
-133.0	-42.83	-14.00
-132.0	-44.30	-14.00
-131.0	-46.63	-14.00
-130.0	-37.34	-14.00
-129.0	-42.58	-14.00
-128.0	-45.48	-14.00
-127.0	-44.15	-14.00
-126.0	-42.53	-14.00
-125.0	-43.17	-14.00
-124.0	-41.20	-14.00
-123.0	-40.79	-14.00
-122.0	-46.68	-14.00
-121.0	-41.41	-14.00
-120.0	-39.76	-14.00
-119.0	-37.20	-14.00
-118.0	-40.08	-14.00
-117.0	-39.12	-14.00
-116.0	-36.24	-14.00
-115.0	-36.81	-14.00
-114.0	-35.96	-14.00
-113.0	-38.69	-14.00
-112.0	-38.76	-14.00
-111.0	-33.49	-14.00
-110.0	-36.05	-14.00
-109.0	-35.53	-14.00
-108.0	-34.21	-14.00
-107.0	-38.36	-14.00
-106.0	-34.18	-14.00
-105.0	-30.94	-14.00
-104.0	-34.00	-14.00
-103.0	-35.47	-14.00
-102.0	-37.65	-14.00
-101.0	-38.23	-14.00
-100.0	-34.30	-14.00
-99.0	-31.79	-14.00
-98.0	-34.95	-14.00
-97.0	-47.91	-14.00
-96.0	-42.14	-14.00
-95.0	-34.84	-14.00
-94.0	-29.64	-14.00
-93.0	-28.54	-14.00
-92.0	-29.53	-14.00
-91.0	-32.39	-14.00

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

14.25GHz@ -16.2 dBW/ 4KHz

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
-90.0	-34.72	-14.00
-89.0	-29.72	-14.00
-88.0	-28.76	-14.00
-87.0	-25.63	-14.00
-86.0	-26.69	-14.00
-85.0	-25.66	-24.00
-84.0	-27.08	-24.00
-83.0	-25.65	-24.00
-82.0	-24.83	-24.00
-81.0	-25.86	-24.00
-80.0	-25.36	-24.00
-79.0	-25.91	-24.00
-78.0	-27.97	-24.00
-77.0	-26.78	-24.00
-76.0	-31.71	-24.00
-75.0	-27.99	-24.00
-74.0	-31.33	-24.00
-73.0	-31.09	-24.00
-72.0	-30.31	-24.00
-71.0	-28.50	-24.00
-70.0	-33.86	-24.00
-69.0	-32.63	-24.00
-68.0	-30.82	-24.00
-67.0	-31.35	-24.00
-66.0	-32.49	-24.00
-65.0	-30.99	-24.00
-64.0	-31.61	-24.00
-63.0	-32.92	-24.00
-62.0	-37.04	-24.00
-61.0	-33.06	-24.00
-60.0	-32.89	-24.00
-59.0	-30.88	-24.00
-58.0	-35.41	-24.00
-57.0	-47.64	-24.00
-56.0	-38.38	-24.00
-55.0	-30.85	-24.00
-54.0	-33.00	-24.00
-53.0	-44.63	-24.00
-52.0	-44.06	-24.00
-51.0	-33.76	-24.00
-50.0	-38.69	-24.00
-49.0	-36.32	-24.00
-48.0	-43.68	-24.03
-47.0	-39.93	-23.80
-46.0	-37.93	-23.57

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
-45.0	-31.32	-23.33
-44.0	-48.94	-23.09
-43.0	-35.63	-22.84
-42.0	-32.47	-22.58
-41.0	-31.82	-22.32
-40.0	-41.44	-22.05
-39.0	-33.30	-21.78
-38.0	-37.71	-21.49
-37.0	-35.82	-21.21
-36.0	-42.69	-20.91
-35.0	-41.45	-20.60
-34.0	-43.23	-20.29
-33.0	-36.93	-19.96
-32.0	-37.40	-19.63
-31.0	-34.61	-19.28
-30.0	-44.32	-18.93
-29.0	-37.93	-18.56
-28.0	-41.41	-18.18
-27.0	-36.09	-17.78
-26.0	-37.49	-17.37
-25.0	-56.41	-16.95
-24.0	-37.96	-16.51
-23.0	-38.86	-16.04
-22.0	-50.60	-15.56
-21.0	-37.00	-15.06
-20.0	-41.53	-14.53
-19.0	-31.39	-13.97
-18.0	-31.69	-13.38
-17.0	-31.90	-12.76
-16.0	-41.01	-12.10
-15.0	-43.40	-11.40
-14.0	-32.48	-10.65
-13.0	-28.85	-9.85
-12.0	-18.42	-8.98
-11.0	-22.86	-8.03
-10.0	-20.61	-7.00
-9.0	-11.18	-6.00
-8.0	-16.94	-6.00
-7.0	-10.97	-6.13
-6.0	-8.33	-4.45
-5.0	-9.46	-2.47
-4.0	-6.06	-0.05
-3.0	-2.66	3.07
-2.0	5.20	7.47
-1.0	18.03	

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

14.25GHz@ -16.2 dBW/ 4KHz

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
0.0	25.10	
1.0	18.12	
2.0	5.45	7.47
3.0	-1.90	3.07
4.0	-9.75	-0.05
5.0	-13.52	-2.47
6.0	-12.10	-4.45
7.0	-11.37	-6.13
8.0	-14.42	-6.00
9.0	-17.51	-6.00
10.0	-30.89	-7.00
11.0	-18.79	-8.03
12.0	-16.75	-8.98
13.0	-29.12	-9.85
14.0	-31.51	-10.65
15.0	-37.20	-11.40
16.0	-52.24	-12.10
17.0	-32.49	-12.76
18.0	-31.70	-13.38
19.0	-33.16	-13.97
20.0	-42.04	-14.53
21.0	-37.66	-15.06
22.0	-41.54	-15.56
23.0	-34.88	-16.04
24.0	-33.99	-16.51
25.0	-42.26	-16.95
26.0	-36.13	-17.37
27.0	-36.71	-17.78
28.0	-41.55	-18.18
29.0	-37.97	-18.56
30.0	-43.29	-18.93
31.0	-36.36	-19.28
32.0	-26.03	-19.63
33.0	-28.64	-19.96
34.0	-38.68	-20.29
35.0	-43.95	-20.60
36.0	-45.83	-20.91
37.0	-33.67	-21.21
38.0	-38.31	-21.49
39.0	-32.00	-21.78
40.0	-34.26	-22.05
41.0	-31.57	-22.32
42.0	-40.40	-22.58
43.0	-42.52	-22.84
44.0	-39.61	-23.09

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
45.0	-32.49	-23.33
46.0	-38.43	-23.57
47.0	-62.40	-23.80
48.0	-39.57	-24.03
49.0	-40.26	-24.00
50.0	-35.14	-24.00
51.0	-56.01	-24.00
52.0	-40.71	-24.00
53.0	-42.31	-24.00
54.0	-33.44	-24.00
55.0	-33.44	-24.00
56.0	-41.01	-24.00
57.0	-37.24	-24.00
58.0	-31.49	-24.00
59.0	-35.30	-24.00
60.0	-35.24	-24.00
61.0	-35.13	-24.00
62.0	-37.54	-24.00
63.0	-33.03	-24.00
64.0	-33.89	-24.00
65.0	-34.23	-24.00
66.0	-34.73	-24.00
67.0	-37.50	-24.00
68.0	-39.70	-24.00
69.0	-35.10	-24.00
70.0	-31.93	-24.00
71.0	-32.63	-24.00
72.0	-30.86	-24.00
73.0	-32.61	-24.00
74.0	-31.17	-24.00
75.0	-30.92	-24.00
76.0	-29.26	-24.00
77.0	-27.26	-24.00
78.0	-25.41	-24.00
79.0	-25.63	-24.00
80.0	-25.02	-24.00
81.0	-24.19	-24.00
82.0	-24.74	-24.00
83.0	-26.99	-24.00
84.0	-26.70	-24.00
85.0	-26.02	-24.00
86.0	-26.48	-14.00
87.0	-29.67	-14.00
88.0	-35.14	-14.00
89.0	-31.20	-14.00

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

14.25GHz@ -16.2 dBW/ 4KHz

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
90.0	-29.70	-14.00
91.0	-28.59	-14.00
92.0	-31.85	-14.00
93.0	-33.89	-14.00
94.0	-36.44	-14.00
95.0	-40.89	-14.00
96.0	-38.76	-14.00
97.0	-34.79	-14.00
98.0	-34.02	-14.00
99.0	-34.43	-14.00
100.0	-33.54	-14.00
101.0	-31.51	-14.00
102.0	-34.24	-14.00
103.0	-36.22	-14.00
104.0	-36.37	-14.00
105.0	-34.65	-14.00
106.0	-35.00	-14.00
107.0	-38.72	-14.00
108.0	-37.41	-14.00
109.0	-39.87	-14.00
110.0	-40.67	-14.00
111.0	-36.74	-14.00
112.0	-38.88	-14.00
113.0	-48.33	-14.00
114.0	-45.18	-14.00
115.0	-46.73	-14.00
116.0	-37.23	-14.00
117.0	-40.88	-14.00
118.0	-46.48	-14.00
119.0	-54.91	-14.00
120.0	-53.93	-14.00
121.0	-46.31	-14.00
122.0	-39.36	-14.00
123.0	-39.66	-14.00
124.0	-42.92	-14.00
125.0	-58.90	-14.00
126.0	-45.81	-14.00
127.0	-43.50	-14.00
128.0	-37.58	-14.00
129.0	-38.58	-14.00
130.0	-35.93	-14.00
131.0	-38.03	-14.00
132.0	-41.00	-14.00
133.0	-45.15	-14.00
134.0	-41.22	-14.00

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
135.0	-40.44	-14.00
136.0	-49.59	-14.00
137.0	-40.62	-14.00
138.0	-47.40	-14.00
139.0	-34.65	-14.00
140.0	-46.39	-14.00
141.0	-36.82	-14.00
142.0	-38.53	-14.00
143.0	-36.51	-14.00
144.0	-47.04	-14.00
145.0	-38.50	-14.00
146.0	-38.42	-14.00
147.0	-49.51	-14.00
148.0	-40.54	-14.00
149.0	-53.12	-14.00
150.0	-40.85	-14.00
151.0	-46.80	-14.00
152.0	-38.36	-14.00
153.0	-41.13	-14.00
154.0	-47.15	-14.00
155.0	-40.24	-14.00
156.0	-38.24	-14.00
157.0	-46.18	-14.00
158.0	-61.27	-14.00
159.0	-50.44	-14.00
160.0	-42.30	-14.00
161.0	-43.80	-14.00
162.0	-50.34	-14.00
163.0	-41.02	-14.00
164.0	-42.54	-14.00
165.0	-45.40	-14.00
166.0	-49.88	-14.00
167.0	-39.55	-14.00
168.0	-47.78	-14.00
169.0	-41.96	-14.00
170.0	-38.62	-14.00
171.0	-36.18	-14.00
172.0	-42.18	-14.00
173.0	-37.75	-14.00
174.0	-40.72	-14.00
175.0	-40.85	-14.00
176.0	-40.44	-14.00
177.0	-39.43	-14.00
178.0	-36.33	-14.00
179.0	-35.44	-14.00
180.0	-35.62	-14.00

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

14.25GHz@ -16.2 dBW/ 4KHz

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
-10.0	-43.50	-16.00
-9.9	-43.23	-16.00
-9.8	-42.28	-16.00
-9.7	-41.49	-16.00
-9.6	-40.79	-16.00
-9.5	-39.84	-16.00
-9.4	-40.03	-16.00
-9.3	-39.32	-16.00
-9.2	-39.16	-16.00
-9.1	-39.57	-16.00
-9.0	-39.49	-16.00
-8.9	-40.10	-16.00
-8.8	-40.90	-16.00
-8.7	-41.49	-16.00
-8.6	-42.71	-16.00
-8.5	-44.51	-16.00
-8.4	-45.73	-16.00
-8.3	-47.57	-16.00
-8.2	-48.74	-16.00
-8.1	-49.28	-16.00
-8.0	-49.18	-16.00
-7.9	-48.96	-16.00
-7.8	-51.66	-16.00
-7.7	-52.27	-16.00
-7.6	-53.21	-16.00
-7.5	-53.06	-16.00
-7.4	-52.66	-16.00
-7.3	-50.05	-16.00
-7.2	-47.90	-16.00
-7.1	-46.98	-16.00
-7.0	-46.00	-16.13
-6.9	-45.47	-15.97
-6.8	-45.06	-15.81
-6.7	-44.14	-15.65
-6.6	-43.41	-15.49
-6.5	-42.58	-15.32
-6.4	-41.71	-15.15
-6.3	-40.97	-14.98
-6.2	-40.76	-14.81
-6.1	-40.18	-14.63
-6.0	-40.37	-14.45
-5.9	-40.65	-14.27
-5.8	-40.38	-14.09
-5.7	-40.64	-13.90
-5.6	-41.73	-13.70
-5.5	-42.07	-13.51
-5.4	-42.87	-13.31
-5.3	-42.94	-13.11
-5.2	-43.91	-12.90
-5.1	-45.03	-12.69

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
-5.0	-44.88	-12.47
-4.9	-44.79	-12.25
-4.8	-45.26	-12.03
-4.7	-46.07	-11.80
-4.6	-48.64	-11.57
-4.5	-51.97	-11.33
-4.4	-52.78	-11.09
-4.3	-48.55	-10.84
-4.2	-42.99	-10.58
-4.1	-39.66	-10.32
-4.0	-36.44	-10.05
-3.9	-34.00	-9.78
-3.8	-31.59	-9.49
-3.7	-30.19	-9.21
-3.6	-28.81	-8.91
-3.5	-27.87	-8.60
-3.4	-26.83	-8.29
-3.3	-26.33	-7.96
-3.2	-25.80	-7.63
-3.1	-25.27	-7.28
-3.0	-24.99	-6.93
-2.9	-24.36	-6.56
-2.8	-23.77	-6.18
-2.7	-22.85	-5.78
-2.6	-22.02	-5.37
-2.5	-20.67	-4.95
-2.4	-19.47	-4.51
-2.3	-18.19	-4.04
-2.2	-17.07	-3.56
-2.1	-15.76	-3.06
-2.0	-14.75	-2.53
-1.9	-13.97	-1.97
-1.8	-13.09	-1.38
-1.7	-12.51	
-1.6	-11.92	
-1.5	-11.49	
-1.4	-11.17	
-1.3	-11.07	
-1.2	-11.08	
-1.1	-11.20	
-1.0	-11.52	
-0.9	-12.07	
-0.8	-12.63	
-0.7	-13.39	
-0.6	-14.16	
-0.5	-15.39	
-0.4	-16.66	
-0.3	-17.92	
-0.2	-18.64	
-0.1	-18.68	

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

14.25GHz@ -16.2 dBW/ 4KHz

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
0.0	-18.11	
0.1	-17.25	
0.2	-16.52	
0.3	-15.94	
0.4	-15.35	
0.5	-15.30	
0.6	-15.33	
0.7	-15.56	
0.8	-15.93	
0.9	-16.65	
1.0	-17.71	
1.1	-19.00	
1.2	-20.70	
1.3	-22.68	
1.4	-24.42	
1.5	-25.65	
1.6	-25.01	
1.7	-23.86	
1.8	-23.30	-1.38
1.9	-22.15	-1.97
2.0	-21.56	-2.53
2.1	-21.32	-3.06
2.2	-21.18	-3.56
2.3	-21.56	-4.04
2.4	-21.73	-4.51
2.5	-22.80	-4.95
2.6	-24.34	-5.37
2.7	-25.86	-5.78
2.8	-28.13	-6.18
2.9	-31.07	-6.56
3.0	-33.74	-6.93
3.1	-35.50	-7.28
3.2	-33.67	-7.63
3.3	-31.04	-7.96
3.4	-29.88	-8.29
3.5	-28.85	-8.60
3.6	-28.20	-8.91
3.7	-28.10	-9.21
3.8	-27.80	-9.49
3.9	-28.00	-9.78
4.0	-28.74	-10.05
4.1	-29.44	-10.32
4.2	-30.18	-10.58
4.3	-31.04	-10.84
4.4	-31.47	-11.09
4.5	-32.15	-11.33
4.6	-32.62	-11.57
4.7	-32.93	-11.80
4.8	-33.50	-12.03
4.9	-34.23	-12.25

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
5.0	-34.98	-12.47
5.1	-35.59	-12.69
5.2	-37.27	-12.90
5.3	-38.24	-13.11
5.4	-38.84	-13.31
5.5	-39.03	-13.51
5.6	-39.49	-13.70
5.7	-39.29	-13.90
5.8	-39.24	-14.09
5.9	-39.32	-14.27
6.0	-40.05	-14.45
6.1	-40.70	-14.63
6.2	-42.12	-14.81
6.3	-43.10	-14.98
6.4	-44.16	-15.15
6.5	-45.08	-15.32
6.6	-44.93	-15.49
6.7	-43.10	-15.65
6.8	-42.30	-15.81
6.9	-41.50	-15.97
7.0	-40.86	-16.13
7.1	-40.57	-16.00
7.2	-41.19	-16.00
7.3	-42.03	-16.00
7.4	-42.69	-16.00
7.5	-44.23	-16.00
7.6	-47.71	-16.00
7.7	-50.06	-16.00
7.8	-53.84	-16.00
7.9	-55.88	-16.00
8.0	-54.06	-16.00
8.1	-51.99	-16.00
8.2	-48.30	-16.00
8.3	-47.19	-16.00
8.4	-46.31	-16.00
8.5	-47.26	-16.00
8.6	-45.79	-16.00
8.7	-47.22	-16.00
8.8	-48.97	-16.00
8.9	-51.57	-16.00
9.0	-52.38	-16.00
9.1	-53.65	-16.00
9.2	-51.98	-16.00
9.3	-52.20	-16.00
9.4	-50.10	-16.00
9.5	-48.86	-16.00
9.6	-50.37	-16.00
9.7	-47.95	-16.00
9.8	-47.32	-16.00
9.9	-47.75	-16.00
10.0	-48.84	-16.00

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

14.25GHz@ -16.2 dBW/ 4KHz

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
0.0	25.10	
0.1	24.99	
0.2	24.72	
0.3	24.30	
0.4	23.78	
0.5	23.07	
0.6	22.17	
0.7	21.01	
0.8	19.60	
0.9	18.07	
1.0	16.14	
1.1	13.89	
1.2	10.94	
1.3	6.76	
1.4	0.84	
1.5	-8.81	
1.6	-3.17	
1.7	1.55	
1.8	3.80	
1.9	4.76	
2.0	4.98	
2.1	4.56	
2.2	3.59	
2.3	1.93	
2.4	-0.32	
2.5	-3.42	
2.6	-7.94	
2.7	-13.93	
2.8	-13.64	
2.9	-9.49	
3.0	-7.31	6.07
3.1	-6.45	5.72
3.2	-6.63	5.37
3.3	-7.83	5.04
3.4	-9.98	4.71
3.5	-13.54	4.40
3.6	-17.19	4.09
3.7	-14.54	3.79
3.8	-10.45	3.51
3.9	-7.81	3.22
4.0	-6.10	2.95
4.1	-5.01	2.68
4.2	-4.37	2.42
4.3	-4.16	2.16
4.4	-4.32	1.91
4.5	-4.85	1.67
4.6	-5.81	1.43
4.7	-7.21	1.20
4.8	-8.88	0.97
4.9	-10.70	0.75
5.0	-12.64	0.53

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
5.1	-14.51	0.31
5.2	-16.41	0.10
5.3	-17.96	-0.11
5.4	-19.09	-0.31
5.5	-19.40	-0.51
5.6	-18.27	-0.70
5.7	-16.34	-0.90
5.8	-14.41	-1.09
5.9	-12.67	-1.27
6.0	-11.19	-1.45
6.1	-10.14	-1.63
6.2	-9.25	-1.81
6.3	-8.86	-1.98
6.4	-8.88	-2.15
6.5	-9.21	-2.32
6.6	-9.85	-2.49
6.7	-10.82	-2.65
6.8	-12.02	-2.81
6.9	-13.48	-2.97
7.0	-14.76	-3.13
7.1	-15.30	-3.28
7.2	-14.91	-3.43
7.3	-14.11	-3.58
7.4	-13.40	-3.73
7.5	-13.02	-3.88
7.6	-13.01	-4.02
7.7	-13.27	-4.16
7.8	-13.70	-4.30
7.9	-14.53	-4.44
8.0	-16.13	-4.58
8.1	-18.48	-4.71
8.2	-21.47	-4.85
8.3	-23.65	-4.98
8.4	-23.69	-5.11
8.5	-22.73	-5.24
8.6	-21.70	-5.36
8.7	-20.97	-5.49
8.8	-20.81	-5.61
8.9	-21.35	-5.73
9.0	-22.91	-5.86
9.1	-25.83	-5.98
9.2	-30.21	-6.09
9.3	-37.29	-6.21
9.4	-41.80	-6.33
9.5	-30.27	-6.44
9.6	-25.26	-6.56
9.7	-23.13	-6.67
9.8	-22.50	-6.78
9.9	-22.94	-6.89
10.0	-23.89	-7.00

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

14.25GHz@ -16.2 dBW/ 4KHz

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
10.1	-25.10	-7.11
10.2	-27.27	-7.22
10.3	-29.89	-7.32
10.4	-31.06	-7.43
10.5	-28.99	-7.53
10.6	-26.09	-7.63
10.7	-24.27	-7.73
10.8	-23.29	-7.84
10.9	-22.83	-7.94
11.0	-22.99	-8.03
11.1	-23.60	-8.13
11.2	-25.01	-8.23
11.3	-26.84	-8.33
11.4	-27.79	-8.42
11.5	-26.73	-8.52
11.6	-24.32	-8.61
11.7	-22.16	-8.70
11.8	-20.57	-8.80
11.9	-19.86	-8.89
12.0	-19.72	-8.98
12.1	-19.91	-9.07
12.2	-20.51	-9.16
12.3	-21.47	-9.25
12.4	-23.24	-9.34
12.5	-26.54	-9.42
12.6	-31.26	-9.51
12.7	-32.43	-9.60
12.8	-28.23	-9.68
12.9	-24.50	-9.76
13.0	-22.09	-9.85
13.1	-20.44	-9.93
13.2	-19.42	-10.01
13.3	-19.33	-10.10
13.4	-19.74	-10.18
13.5	-20.34	-10.26
13.6	-21.18	-10.34
13.7	-22.52	-10.42
13.8	-24.46	-10.50
13.9	-27.58	-10.58
14.0	-33.33	-10.65
14.1	-45.69	-10.73
14.2	-44.47	-10.81
14.3	-37.81	-10.88
14.4	-34.71	-10.96
14.5	-32.12	-11.03
14.6	-31.30	-11.11
14.7	-31.65	-11.18
14.8	-32.34	-11.26
14.9	-32.20	-11.33
15.0	-30.36	-11.40

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
15.1	-28.57	-11.47
15.2	-26.43	-11.55
15.3	-24.62	-11.62
15.4	-23.71	-11.69
15.5	-23.63	-11.76
15.6	-23.93	-11.83
15.7	-24.80	-11.90
15.8	-26.11	-11.97
15.9	-27.82	-12.03
16.0	-31.50	-12.10
16.1	-37.71	-12.17
16.2	-45.48	-12.24
16.3	-37.87	-12.30
16.4	-32.93	-12.37
16.5	-29.45	-12.44
16.6	-27.55	-12.50
16.7	-26.75	-12.57
16.8	-26.85	-12.63
16.9	-28.35	-12.70
17.0	-31.28	-12.76
17.1	-34.34	-12.82
17.2	-34.04	-12.89
17.3	-32.70	-12.95
17.4	-30.89	-13.01
17.5	-28.10	-13.08
17.6	-25.68	-13.14
17.7	-23.85	-13.20
17.8	-22.75	-13.26
17.9	-22.26	-13.32
18.0	-22.37	-13.38
18.1	-22.76	-13.44
18.2	-23.24	-13.50
18.3	-23.62	-13.56
18.4	-24.01	-13.62
18.5	-24.29	-13.68
18.6	-24.28	-13.74
18.7	-24.26	-13.80
18.8	-23.94	-13.85
18.9	-23.47	-13.91
19.0	-23.49	-13.97
19.1	-24.07	-14.03
19.2	-24.62	-14.08
19.3	-25.13	-14.14
19.4	-25.81	-14.20
19.5	-27.18	-14.25
19.6	-30.00	-14.31
19.7	-35.60	-14.36
19.8	-53.51	-14.42
19.9	-37.20	-14.47
20.0	-32.94	-14.53

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

14.25GHz@ -16.2 dBW/ 4KHz

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
20.1	-30.99	-14.58
20.2	-29.55	-14.63
20.3	-28.26	-14.69
20.4	-27.97	-14.74
20.5	-28.46	-14.79
20.6	-29.38	-14.85
20.7	-29.97	-14.90
20.8	-30.49	-14.95
20.9	-31.77	-15.00
21.0	-34.62	-15.06
21.1	-38.64	-15.11
21.2	-36.16	-15.16
21.3	-33.26	-15.21
21.4	-32.48	-15.26
21.5	-32.72	-15.31
21.6	-33.13	-15.36
21.7	-33.45	-15.41
21.8	-34.64	-15.46
21.9	-35.35	-15.51
22.0	-35.61	-15.56
22.1	-33.95	-15.61
22.2	-32.44	-15.66
22.3	-31.52	-15.71
22.4	-31.03	-15.76
22.5	-29.30	-15.80
22.6	-27.54	-15.85
22.7	-26.57	-15.90
22.8	-26.71	-15.95
22.9	-27.82	-16.00
23.0	-29.30	-16.04
23.1	-29.83	-16.09
23.2	-30.86	-16.14
23.3	-32.71	-16.18
23.4	-33.45	-16.23
23.5	-32.62	-16.28
23.6	-31.77	-16.32
23.7	-30.91	-16.37
23.8	-29.81	-16.41
23.9	-28.84	-16.46
24.0	-28.29	-16.51
24.1	-27.71	-16.55
24.2	-27.43	-16.60
24.3	-27.98	-16.64
24.4	-28.89	-16.68
24.5	-30.07	-16.73
24.6	-31.68	-16.77
24.7	-33.19	-16.82
24.8	-34.69	-16.86
24.9	-35.73	-16.90
25.0	-36.18	-16.95

Angle	EIRP sd (dBW/4kHz)	Mask (dBW/4kHz)
25.1	-27.95	-16.99
25.2	-23.79	-17.04
25.3	-24.88	-17.08
25.4	-26.08	-17.12
25.5	-27.37	-17.16
25.6	-28.86	-17.21
25.7	-28.65	-17.25
25.8	-28.42	-17.29
25.9	-26.62	-17.33
26.0	-25.11	-17.37
26.1	-23.94	-17.42
26.2	-22.89	-17.46
26.3	-22.28	-17.50
26.4	-21.70	-17.54
26.5	-21.82	-17.58
26.6	-21.93	-17.62
26.7	-22.53	-17.66
26.8	-23.17	-17.70
26.9	-24.37	-17.74
27.0	-25.75	-17.78
27.1	-26.70	-17.82
27.2	-27.77	-17.86
27.3	-27.93	-17.90
27.4	-28.09	-17.94
27.5	-27.32	-17.98
27.6	-26.60	-18.02
27.7	-26.09	-18.06
27.8	-25.61	-18.10
27.9	-25.47	-18.14
28.0	-25.34	-18.18
28.1	-25.46	-18.22
28.2	-25.58	-18.26
28.3	-25.60	-18.29
28.4	-25.62	-18.33
28.5	-25.17	-18.37
28.6	-24.74	-18.41
28.7	-24.07	-18.45
28.8	-23.44	-18.48
28.9	-22.76	-18.52
29.0	-22.13	-18.56
29.1	-21.75	-18.60
29.2	-21.39	-18.63
29.3	-21.36	-18.67
29.4	-21.32	-18.71
29.5	-21.63	-18.75
29.6	-21.95	-18.78
29.7	-22.57	-18.82
29.8	-23.24	-18.86
29.9	-24.15	-18.89
30.0	-25.16	-18.93

Declaration of Thrane & Thrane A/S

1. This declaration refers to the following Thrane & Thrane antenna model:

TT- 7090A Sailor 900 VSAT system, 1 meter Ku-band antenna.

2. This declaration covers the requirements on off-axis EIRP spectral density limitations as well as pointing accuracy and cessation of transmissions as described in FCC regulation 47 CFR of September 2009, § 25.222 (a)(1)(i), (a)(1)(ii) and (a)(1)(iii). It also covers the identical requirements on off-axis EIRP spectral density limitations as described in FCC regulation 47 CFR of November 2009, § 25.218 (f) and (h).
3. Thrane and Thrane A/S hereby declares that the antenna referenced in 1, above, will meet the off-axis EIRP spectral density requirements of § 25.222 (a)(1)(i), and § 25.218 (f) and (h) with an N value of 1 when the input power spectral density is limited to -15.8 dBW/4kHz.
4. Thrane and Thrane A/S hereby declares that the antenna referenced in 1, above, will maintain a stabilization pointing accuracy of 0.2 degrees RMS or less under specified ship motion conditions, thus meeting the requirements of § 25.222 (a)(1)(iii).
5. Thrane and Thrane A/S hereby declares the antenna referenced in 1, above, will automatically cease transmission within 100 milliseconds if the pointing error should exceed 0.5 degrees and will not resume transmission until the pointing error drops below 0.2 degrees, thus meeting the requirements of § 25.222 (a)(1)(iii).

Date: 22/2-12



Carsten Thomsen
Project Manager, R&D Antennas
Thrane & Thrane A/S

EXHIBIT 2

25.222(b)(1)(i)(A) Tables for the Thrane & Thrane Model

TT-7090A Sailor 900 1.0 Meter Ku-band Antennas

Sailor900_EIRPtable_Copol_th10_f1425.TXT

Sailor 900 with Radome
 EIRP FCC-compliance
 Based on measurement at Eutelsat Test range in La Turbie, France

Polarization:

Co-pol

Freq:

14.25 GHz

Main beam co-pol. gain: 41.6 dBi

Spectral Power density: -15.8 dB/4kHz

Theta	Gain	EIRP	FCC limit	FCC margin
-10.0000	-1.5700	-17.3700	-7.0000	10.3700
-9.9000	-1.2100	-17.0100	-6.8909	10.1191
-9.8000	-1.1200	-16.9200	-6.7807	10.1393
-9.7000	-1.2300	-17.0300	-6.6693	10.3607
-9.6000	-1.3300	-17.1300	-6.5568	10.5732
-9.5000	-1.1300	-16.9300	-6.4431	10.4869
-9.4000	-0.5500	-16.3500	-6.3282	10.0218
-9.3000	0.6100	-15.1900	-6.2121	8.9779
-9.2000	1.7900	-14.0100	-6.0947	7.9153
-9.1000	2.9300	-12.8700	-6.0000	6.8700
-9.0000	4.1800	-11.6200	-6.0000	5.6200
-8.9000	5.1600	-10.6400	-6.0000	4.6400
-8.8000	5.8000	-10.0000	-6.0000	4.0000
-8.7000	6.3100	-9.4900	-6.0000	3.4900
-8.6000	6.5800	-9.2200	-6.0000	3.2200
-8.5000	6.5800	-9.2200	-6.0000	3.2200
-8.4000	6.4100	-9.3900	-6.0000	3.3900
-8.3000	5.9600	-9.8400	-6.0000	3.8400
-8.2000	5.3400	-10.4600	-6.0000	4.4600
-8.1000	4.2600	-11.5400	-6.0000	5.5400
-8.0000	2.8000	-13.0000	-6.0000	7.0000
-7.9000	1.1900	-14.6100	-6.0000	8.6100
-7.8000	-0.9400	-16.7400	-6.0000	10.7400
-7.7000	-4.3300	-20.1300	-6.0000	14.1300
-7.6000	-8.2700	-24.0700	-6.0000	18.0700
-7.5000	-12.6100	-28.4100	-6.0000	22.4100
-7.4000	-10.5900	-26.3900	-6.0000	20.3900
-7.3000	-6.6600	-22.4600	-6.0000	16.4600
-7.2000	-4.3000	-20.1000	-6.0000	14.1000
-7.1000	-2.4600	-18.2600	-6.0000	12.2600
-7.0000	-1.3400	-17.1400	-6.0000	11.1400
-6.9000	-0.2500	-16.0500	-5.9712	10.0788
-6.8000	0.5800	-15.2200	-5.8127	9.4073
-6.7000	1.6500	-14.1500	-5.6519	8.4981
-6.6000	2.6000	-13.2000	-5.4886	7.7114
-6.5000	3.8500	-11.9500	-5.3228	6.6272
-6.4000	4.8900	-10.9100	-5.1545	5.7555
-6.3000	6.1200	-9.6800	-4.9835	4.6965
-6.2000	7.0600	-8.7400	-4.8098	3.9302
-6.1000	8.0700	-7.7300	-4.6332	3.0968
-6.0000	8.7900	-7.0100	-4.4538	2.5562
-5.9000	9.5200	-6.2800	-4.2713	2.0087
-5.8000	10.0300	-5.7700	-4.0857	1.6843
-5.7000	10.4200	-5.3800	-3.8969	1.4831
-5.6000	10.8300	-4.9700	-3.7047	1.2653
-5.5000	11.1300	-4.6700	-3.5091	1.1609
-5.4000	11.3300	-4.4700	-3.3098	1.1602
-5.3000	11.4900	-4.3100	-3.1069	1.2031
-5.2000	11.6600	-4.1400	-2.9001	1.2399
-5.1000	11.8200	-3.9800	-2.6893	1.2907

Sailor900_EIRPtable_Copol_th10_f1425.TXT

-5.0000	11.9300	-3.8700	-2.4743	1.3957
-4.9000	12.0200	-3.7800	-2.2549	1.5251
-4.8000	12.0600	-3.7400	-2.0310	1.7090
-4.7000	12.0700	-3.7300	-1.8024	1.9276
-4.6000	12.0100	-3.7900	-1.5689	2.2211
-4.5000	11.8400	-3.9600	-1.3303	2.6297
-4.4000	11.5900	-4.2100	-1.0863	3.1237
-4.3000	11.2700	-4.5300	-0.8367	3.6933
-4.2000	10.7700	-5.0300	-0.5812	4.4488
-4.1000	10.2900	-5.5100	-0.3196	5.1904
-4.0000	9.6800	-6.1200	-0.0515	6.0685
-3.9000	9.1300	-6.6700	0.2234	6.8934
-3.8000	8.6300	-7.1700	0.5054	7.6754
-3.7000	8.4100	-7.3900	0.7950	8.1850
-3.6000	8.5100	-7.2900	1.0924	8.3824
-3.5000	8.9300	-6.8700	1.3983	8.2683
-3.4000	9.8600	-5.9400	1.7130	7.6530
-3.3000	10.8900	-4.9100	2.0372	6.9472
-3.2000	12.3300	-3.4700	2.3713	5.8413
-3.1000	13.8200	-1.9800	2.7160	4.6960
-3.0000	15.0500	-0.7500	3.0720	3.8220
-2.9000	16.3700	0.5700	3.4401	2.8701
-2.8000	17.3700	1.5700	3.8210	2.2510
-2.7000	18.3400	2.5400	4.2159	1.6759
-2.6000	18.9000	3.1000	4.6257	1.5257
-2.5000	19.3100	3.5100	5.0515	1.5415
-2.4000	19.3500	3.5500	5.4947	1.9447
-2.3000	18.9700	3.1700	5.9568	2.7868
-2.2000	18.1900	2.3900	6.4394	4.0494
-2.1000	16.3100	0.5100	6.9445	6.4345
-2.0000	13.4600	-2.3400	7.4743	9.8143
-1.9000	8.5500	-7.2500	8.0312	15.2812
-1.8000	12.0500	-3.7500	8.6182	12.3682
-1.7000	18.7500	2.9500	9.2388	6.2888
-1.6000	22.7200	6.9200	9.8970	2.9770
-1.5000	26.3200	10.5200	10.5977	0.0777
-1.4000	28.7100	12.9100	NaN	NaN
-1.3000	31.0700	15.2700	NaN	NaN
-1.2000	32.7600	16.9600	NaN	NaN
-1.1000	34.4900	18.6900	NaN	NaN
-1.0000	35.7400	19.9400	NaN	NaN
-0.9000	37.0500	21.2500	NaN	NaN
-0.8000	37.9600	22.1600	NaN	NaN
-0.7000	38.9100	23.1100	NaN	NaN
-0.6000	39.5700	23.7700	NaN	NaN
-0.5000	40.2400	24.4400	NaN	NaN
-0.4000	40.7100	24.9100	NaN	NaN
-0.3000	41.1200	25.3200	NaN	NaN
-0.2000	41.4100	25.6100	NaN	NaN
-0.1000	41.5400	25.7400	NaN	NaN
0	41.5900	25.7900	NaN	NaN
0.1000	41.5400	25.7400	NaN	NaN
0.2000	41.3600	25.5600	NaN	NaN
0.3000	41.1000	25.3000	NaN	NaN
0.4000	40.6600	24.8600	NaN	NaN
0.5000	40.2000	24.4000	NaN	NaN
0.6000	39.5000	23.7000	NaN	NaN
0.7000	38.8000	23.0000	NaN	NaN
0.8000	38.0000	22.2000	NaN	NaN
0.9000	36.8500	21.0500	NaN	NaN
1.0000	35.7300	19.9300	NaN	NaN
1.1000	34.2300	18.4300	NaN	NaN
1.2000	32.4100	16.6100	NaN	NaN

Sailor900_EIRPtable_Copol_th10_f1425.TXT

1.3000	30.7100	14.9100	NaN	NaN
1.4000	28.2300	12.4300	NaN	NaN
1.5000	25.7300	9.9300	10.5977	0.6677
1.6000	22.7200	6.9200	9.8970	2.9770
1.7000	17.9400	2.1400	9.2388	7.0988
1.8000	11.8300	-3.9700	8.6182	12.5882
1.9000	11.0800	-4.7200	8.0312	12.7512
2.0000	15.0700	-0.7300	7.4743	8.2043
2.1000	17.3200	1.5200	6.9445	5.4245
2.2000	18.8900	3.0900	6.4394	3.3494
2.3000	19.4700	3.6700	5.9568	2.2868
2.4000	19.6300	3.8300	5.4947	1.6647
2.5000	19.4200	3.6200	5.0515	1.4315
2.6000	18.8600	3.0600	4.6257	1.5657
2.7000	17.8100	2.0100	4.2159	2.2059
2.8000	16.3800	0.5800	3.8210	3.2410
2.9000	14.9300	-0.8700	3.4401	4.3101
3.0000	13.0500	-2.7500	3.0720	5.8220
3.1000	10.3700	-5.4300	2.7160	8.1460
3.2000	7.0600	-8.7400	2.3713	11.1113
3.3000	4.0200	-11.7800	2.0372	13.8172
3.4000	2.0500	-13.7500	1.7130	15.4630
3.5000	3.0800	-12.7200	1.3983	14.1183
3.6000	5.4400	-10.3600	1.0924	11.4524
3.7000	7.0200	-8.7800	0.7950	9.5750
3.8000	8.4700	-7.3300	0.5054	7.8354
3.9000	9.3500	-6.4500	0.2234	6.6734
4.0000	10.1300	-5.6700	-0.0515	5.6185
4.1000	10.6000	-5.2000	-0.3196	4.8804
4.2000	10.9500	-4.8500	-0.5812	4.2688
4.3000	11.1400	-4.6600	-0.8367	3.8233
4.4000	11.1600	-4.6400	-1.0863	3.5537
4.5000	11.0500	-4.7500	-1.3303	3.4197
4.6000	10.7900	-5.0100	-1.5689	3.4411
4.7000	10.3100	-5.4900	-1.8024	3.6876
4.8000	9.7400	-6.0600	-2.0310	4.0290
4.9000	8.8700	-6.9300	-2.2549	4.6751
5.0000	7.9600	-7.8400	-2.4743	5.3657
5.1000	6.6000	-9.2000	-2.6893	6.5107
5.2000	4.9600	-10.8400	-2.9001	7.9399
5.3000	3.4000	-12.4000	-3.1069	9.2931
5.4000	1.5700	-14.2300	-3.3098	10.9202
5.5000	0.4400	-15.3600	-3.5091	11.8509
5.6000	0.5700	-15.2300	-3.7047	11.5253
5.7000	1.5900	-14.2100	-3.8969	10.3131
5.8000	2.9600	-12.8400	-4.0857	8.7543
5.9000	4.6700	-11.1300	-4.2713	6.8587
6.0000	5.8300	-9.9700	-4.4538	5.5162
6.1000	6.9400	-8.8600	-4.6332	4.2268
6.2000	7.7800	-8.0200	-4.8098	3.2102
6.3000	8.2700	-7.5300	-4.9835	2.5465
6.4000	8.6000	-7.2000	-5.1545	2.0455
6.5000	8.7000	-7.1000	-5.3228	1.7772
6.6000	8.5900	-7.2100	-5.4886	1.7214
6.7000	8.2600	-7.5400	-5.6519	1.8881
6.8000	7.6100	-8.1900	-5.8127	2.3773
6.9000	6.8100	-8.9900	-5.9712	3.0188
7.0000	5.4700	-10.3300	-6.0000	4.3300
7.1000	3.5800	-12.2200	-6.0000	6.2200
7.2000	1.4100	-14.3900	-6.0000	8.3900
7.3000	-1.7900	-17.5900	-6.0000	11.5900
7.4000	-8.6600	-24.4600	-6.0000	18.4600
7.5000	-34.5200	-50.3200	-6.0000	44.3200

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7.6000	-7.2200	-23.0200	-6.0000	17.0200
7.7000	-2.2100	-18.0100	-6.0000	12.0100
7.8000	1.1300	-14.6700	-6.0000	8.6700
7.9000	2.9800	-12.8200	-6.0000	6.8200
8.0000	4.4200	-11.3800	-6.0000	5.3800
8.1000	5.3600	-10.4400	-6.0000	4.4400
8.2000	5.8900	-9.9100	-6.0000	3.9100
8.3000	6.2200	-9.5800	-6.0000	3.5800
8.4000	6.3200	-9.4800	-6.0000	3.4800
8.5000	6.2900	-9.5100	-6.0000	3.5100
8.6000	6.1700	-9.6300	-6.0000	3.6300
8.7000	5.9800	-9.8200	-6.0000	3.8200
8.8000	5.8400	-9.9600	-6.0000	3.9600
8.9000	5.7100	-10.0900	-6.0000	4.0900
9.0000	5.6500	-10.1500	-6.0000	4.1500
9.1000	5.6900	-10.1100	-6.0000	4.1100
9.2000	5.7900	-10.0100	-6.0947	3.9153
9.3000	5.9300	-9.8700	-6.2121	3.6579
9.4000	6.0300	-9.7700	-6.3282	3.4418
9.5000	6.0900	-9.7100	-6.4431	3.2669
9.6000	6.0100	-9.7900	-6.5568	3.2332
9.7000	5.8700	-9.9300	-6.6693	3.2607
9.8000	5.6200	-10.1800	-6.7807	3.3993
9.9000	5.1600	-10.6400	-6.8909	3.7491
10.0000	4.5000	-11.3000	-7.0000	4.3000

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Sailor 900 with Radome
 EIRP FCC-compliance
 Based on measurement at Eutelsat Test range in La Turbie, France

Co-pol

Polarization:

Freq:

14.25 GHz

Main beam co-pol. gain: 41.6 dBi

Spectral Power density: -15.8 dB/4kHz

Theta	Gain	EIRP	FCC limit	FCC margin
-175.0000	-19.6700	-35.4700	-14.0000	21.4700
-174.5000	-17.6300	-33.4300	-14.0000	19.4300
-174.0000	-17.5600	-33.3600	-14.0000	19.3600
-173.5000	-18.4200	-34.2200	-14.0000	20.2200
-173.0000	-19.4900	-35.2900	-14.0000	21.2900
-172.5000	-19.7900	-35.5900	-14.0000	21.5900
-172.0000	-20.1900	-35.9900	-14.0000	21.9900
-171.5000	-21.6900	-37.4900	-14.0000	23.4900
-171.0000	-24.8000	-40.6000	-14.0000	26.6000
-170.5000	-23.0200	-38.8200	-14.0000	24.8200
-170.0000	-25.7600	-41.5600	-14.0000	27.5600
-169.5000	-39.1500	-54.9500	-14.0000	40.9500
-169.0000	-35.2800	-51.0800	-14.0000	37.0800
-168.5000	-29.3500	-45.1500	-14.0000	31.1500
-168.0000	-30.8000	-46.6000	-14.0000	32.6000
-167.5000	-28.6400	-44.4400	-14.0000	30.4400
-167.0000	-31.0600	-46.8600	-14.0000	32.8600
-166.5000	-32.3300	-48.1300	-14.0000	34.1300
-166.0000	-28.1800	-43.9800	-14.0000	29.9800
-165.5000	-37.3000	-53.1000	-14.0000	39.1000
-165.0000	-31.4000	-47.2000	-14.0000	33.2000
-164.5000	-32.1100	-47.9100	-14.0000	33.9100
-164.0000	-26.7700	-42.5700	-14.0000	28.5700
-163.5000	-53.3700	-69.1700	-14.0000	55.1700
-163.0000	-35.1100	-50.9100	-14.0000	36.9100
-162.5000	-33.5700	-49.3700	-14.0000	35.3700
-162.0000	-26.6100	-42.4100	-14.0000	28.4100
-161.5000	-29.9900	-45.7900	-14.0000	31.7900
-161.0000	-34.2700	-50.0700	-14.0000	36.0700
-160.5000	-41.6200	-57.4200	-14.0000	43.4200
-160.0000	-37.4700	-53.2700	-14.0000	39.2700
-159.5000	-38.3500	-54.1500	-14.0000	40.1500
-159.0000	-37.0800	-52.8800	-14.0000	38.8800
-158.5000	-32.2400	-48.0400	-14.0000	34.0400
-158.0000	-29.2400	-45.0400	-14.0000	31.0400
-157.5000	-34.6700	-50.4700	-14.0000	36.4700
-157.0000	-33.0500	-48.8500	-14.0000	34.8500
-156.5000	-28.4900	-44.2900	-14.0000	30.2900
-156.0000	-30.5200	-46.3200	-14.0000	32.3200
-155.5000	-35.1300	-50.9300	-14.0000	36.9300
-155.0000	-33.5000	-49.3000	-14.0000	35.3000
-154.5000	-28.7400	-44.5400	-14.0000	30.5400
-154.0000	-44.8100	-60.6100	-14.0000	46.6100
-153.5000	-35.3200	-51.1200	-14.0000	37.1200
-153.0000	-32.1200	-47.9200	-14.0000	33.9200
-152.5000	-26.7900	-42.5900	-14.0000	28.5900
-152.0000	-30.8200	-46.6200	-14.0000	32.6200
-151.5000	-38.8600	-54.6600	-14.0000	40.6600
-151.0000	-31.6800	-47.4800	-14.0000	33.4800
-150.5000	-30.3200	-46.1200	-14.0000	32.1200

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-150.0000	-34.7200	-50.5200	-14.0000	36.5200
-149.5000	-38.6100	-54.4100	-14.0000	40.4100
-149.0000	-28.6300	-44.4300	-14.0000	30.4300
-148.5000	-31.3700	-47.1700	-14.0000	33.1700
-148.0000	-42.9900	-58.7900	-14.0000	44.7900
-147.5000	-35.4100	-51.2100	-14.0000	37.2100
-147.0000	-38.1300	-53.9300	-14.0000	39.9300
-146.5000	-39.5800	-55.3800	-14.0000	41.3800
-146.0000	-35.3700	-51.1700	-14.0000	37.1700
-145.5000	-35.7800	-51.5800	-14.0000	37.5800
-145.0000	-42.4400	-58.2400	-14.0000	44.2400
-144.5000	-44.8300	-60.6300	-14.0000	46.6300
-144.0000	-35.6400	-51.4400	-14.0000	37.4400
-143.5000	-42.0700	-57.8700	-14.0000	43.8700
-143.0000	-39.8200	-55.6200	-14.0000	41.6200
-142.5000	-32.5400	-48.3400	-14.0000	34.3400
-142.0000	-35.2100	-51.0100	-14.0000	37.0100
-141.5000	-25.9600	-41.7600	-14.0000	27.7600
-141.0000	-25.8100	-41.6100	-14.0000	27.6100
-140.5000	-39.3800	-55.1800	-14.0000	41.1800
-140.0000	-36.4600	-52.2600	-14.0000	38.2600
-139.5000	-34.1100	-49.9100	-14.0000	35.9100
-139.0000	-30.5200	-46.3200	-14.0000	32.3200
-138.5000	-40.5300	-56.3300	-14.0000	42.3300
-138.0000	-27.8400	-43.6400	-14.0000	29.6400
-137.5000	-26.6400	-42.4400	-14.0000	28.4400
-137.0000	-28.1200	-43.9200	-14.0000	29.9200
-136.5000	-27.9300	-43.7300	-14.0000	29.7300
-136.0000	-34.4200	-50.2200	-14.0000	36.2200
-135.5000	-26.0700	-41.8700	-14.0000	27.8700
-135.0000	-33.9900	-49.7900	-14.0000	35.7900
-134.5000	-31.9400	-47.7400	-14.0000	33.7400
-134.0000	-31.9900	-47.7900	-14.0000	33.7900
-133.5000	-30.2300	-46.0300	-14.0000	32.0300
-133.0000	-42.0200	-57.8200	-14.0000	43.8200
-132.5000	-35.2800	-51.0800	-14.0000	37.0800
-132.0000	-35.0200	-50.8200	-14.0000	36.8200
-131.5000	-51.9500	-67.7500	-14.0000	53.7500
-131.0000	-29.7100	-45.5100	-14.0000	31.5100
-130.5000	-26.5200	-42.3200	-14.0000	28.3200
-130.0000	-29.6700	-45.4700	-14.0000	31.4700
-129.5000	-30.0300	-45.8300	-14.0000	31.8300
-129.0000	-29.7200	-45.5200	-14.0000	31.5200
-128.5000	-30.0300	-45.8300	-14.0000	31.8300
-128.0000	-30.8100	-46.6100	-14.0000	32.6100
-127.5000	-39.9500	-55.7500	-14.0000	41.7500
-127.0000	-31.6000	-47.4000	-14.0000	33.4000
-126.5000	-30.5200	-46.3200	-14.0000	32.3200
-126.0000	-39.7100	-55.5100	-14.0000	41.5100
-125.5000	-27.5200	-43.3200	-14.0000	29.3200
-125.0000	-25.5700	-41.3700	-14.0000	27.3700
-124.5000	-29.8100	-45.6100	-14.0000	31.6100
-124.0000	-30.6600	-46.4600	-14.0000	32.4600
-123.5000	-29.3100	-45.1100	-14.0000	31.1100
-123.0000	-23.3000	-39.1000	-14.0000	25.1000
-122.5000	-26.4800	-42.2800	-14.0000	28.2800
-122.0000	-35.7700	-51.5700	-14.0000	37.5700
-121.5000	-29.7600	-45.5600	-14.0000	31.5600
-121.0000	-33.3400	-49.1400	-14.0000	35.1400
-120.5000	-28.3200	-44.1200	-14.0000	30.1200
-120.0000	-33.8700	-49.6700	-14.0000	35.6700
-119.5000	-31.7200	-47.5200	-14.0000	33.5200
-119.0000	-36.7900	-52.5900	-14.0000	38.5900

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-118.5000	-34.2800	-50.0800	-14.0000	36.0800
-118.0000	-35.2000	-51.0000	-14.0000	37.0000
-117.5000	-27.6800	-43.4800	-14.0000	29.4800
-117.0000	-28.7000	-44.5000	-14.0000	30.5000
-116.5000	-23.7300	-39.5300	-14.0000	25.5300
-116.0000	-30.8800	-46.6800	-14.0000	32.6800
-115.5000	-24.9800	-40.7800	-14.0000	26.7800
-115.0000	-24.3200	-40.1200	-14.0000	26.1200
-114.5000	-24.4400	-40.2400	-14.0000	26.2400
-114.0000	-24.7400	-40.5400	-14.0000	26.5400
-113.5000	-40.6500	-56.4500	-14.0000	42.4500
-113.0000	-28.5100	-44.3100	-14.0000	30.3100
-112.5000	-23.1500	-38.9500	-14.0000	24.9500
-112.0000	-24.0500	-39.8500	-14.0000	25.8500
-111.5000	-17.6000	-33.4000	-14.0000	19.4000
-111.0000	-24.2100	-40.0100	-14.0000	26.0100
-110.5000	-23.0700	-38.8700	-14.0000	24.8700
-110.0000	-19.6400	-35.4400	-14.0000	21.4400
-109.5000	-19.3800	-35.1800	-14.0000	21.1800
-109.0000	-19.7300	-35.5300	-14.0000	21.5300
-108.5000	-23.4200	-39.2200	-14.0000	25.2200
-108.0000	-22.3400	-38.1400	-14.0000	24.1400
-107.5000	-19.8200	-35.6200	-14.0000	21.6200
-107.0000	-18.8000	-34.6000	-14.0000	20.6000
-106.5000	-19.8200	-35.6200	-14.0000	21.6200
-106.0000	-22.1300	-37.9300	-14.0000	23.9300
-105.5000	-20.7700	-36.5700	-14.0000	22.5700
-105.0000	-16.9200	-32.7200	-14.0000	18.7200
-104.5000	-16.5700	-32.3700	-14.0000	18.3700
-104.0000	-18.5300	-34.3300	-14.0000	20.3300
-103.5000	-22.9300	-38.7300	-14.0000	24.7300
-103.0000	-20.2300	-36.0300	-14.0000	22.0300
-102.5000	-19.2100	-35.0100	-14.0000	21.0100
-102.0000	-19.0500	-34.8500	-14.0000	20.8500
-101.5000	-21.1300	-36.9300	-14.0000	22.9300
-101.0000	-19.2900	-35.0900	-14.0000	21.0900
-100.5000	-18.2100	-34.0100	-14.0000	20.0100
-100.0000	-19.6200	-35.4200	-14.0000	21.4200
-99.5000	-18.1500	-33.9500	-14.0000	19.9500
-99.0000	-20.7600	-36.5600	-14.0000	22.5600
-98.5000	-22.2400	-38.0400	-14.0000	24.0400
-98.0000	-20.9300	-36.7300	-14.0000	22.7300
-97.5000	-24.0700	-39.8700	-14.0000	25.8700
-97.0000	-22.9700	-38.7700	-14.0000	24.7700
-96.5000	-22.8800	-38.6800	-14.0000	24.6800
-96.0000	-16.8200	-32.6200	-14.0000	18.6200
-95.5000	-14.7600	-30.5600	-14.0000	16.5600
-95.0000	-14.3000	-30.1000	-14.0000	16.1000
-94.5000	-11.0700	-26.8700	-14.0000	12.8700
-94.0000	-11.9200	-27.7200	-14.0000	13.7200
-93.5000	-12.1800	-27.9800	-14.0000	13.9800
-93.0000	-10.8400	-26.6400	-14.0000	12.6400
-92.5000	-11.7100	-27.5100	-14.0000	13.5100
-92.0000	-13.3600	-29.1600	-14.0000	15.1600
-91.5000	-14.2600	-30.0600	-14.0000	16.0600
-91.0000	-15.6900	-31.4900	-14.0000	17.4900
-90.5000	-16.3500	-32.1500	-14.0000	18.1500
-90.0000	-17.0800	-32.8800	-14.0000	18.8800
-89.5000	-15.8800	-31.6800	-14.0000	17.6800
-89.0000	-15.1400	-30.9400	-14.0000	16.9400
-88.5000	-11.3300	-27.1300	-14.0000	13.1300
-88.0000	-11.7300	-27.5300	-14.0000	13.5300
-87.5000	-11.1000	-26.9000	-14.0000	12.9000

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-87.0000	-9.6900	-25.4900	-14.0000	11.4900
-86.5000	-12.7500	-28.5500	-14.0000	14.5500
-86.0000	-12.7600	-28.5600	-14.0000	14.5600
-85.5000	-12.4900	-28.2900	-14.0000	14.2900
-85.0000	-19.0600	-34.8600	-14.0000	20.8600
-84.5000	-15.6300	-31.4300	-24.0000	7.4300
-84.0000	-14.7400	-30.5400	-24.0000	6.5400
-83.5000	-14.5700	-30.3700	-24.0000	6.3700
-83.0000	-14.2900	-30.0900	-24.0000	6.0900
-82.5000	-15.9700	-31.7700	-24.0000	7.7700
-82.0000	-11.9600	-27.7600	-24.0000	3.7600
-81.5000	-15.6500	-31.4500	-24.0000	7.4500
-81.0000	-15.6600	-31.4600	-24.0000	7.4600
-80.5000	-14.8000	-30.6000	-24.0000	6.6000
-80.0000	-16.8700	-32.6700	-24.0000	8.6700
-79.5000	-17.0700	-32.8700	-24.0000	8.8700
-79.0000	-18.3000	-34.1000	-24.0000	10.1000
-78.5000	-18.9400	-34.7400	-24.0000	10.7400
-78.0000	-17.6700	-33.4700	-24.0000	9.4700
-77.5000	-20.3700	-36.1700	-24.0000	12.1700
-77.0000	-16.7300	-32.5300	-24.0000	8.5300
-76.5000	-10.6300	-26.4300	-24.0000	2.4300
-76.0000	-15.5200	-31.3200	-24.0000	7.3200
-75.5000	-13.2300	-29.0300	-24.0000	5.0300
-75.0000	-15.6500	-31.4500	-24.0000	7.4500
-74.5000	-16.9100	-32.7100	-24.0000	8.7100
-74.0000	-21.7200	-37.5200	-24.0000	13.5200
-73.5000	-15.5600	-31.3600	-24.0000	7.3600
-73.0000	-16.4400	-32.2400	-24.0000	8.2400
-72.5000	-23.5300	-39.3300	-24.0000	15.3300
-72.0000	-14.6900	-30.4900	-24.0000	6.4900
-71.5000	-21.2200	-37.0200	-24.0000	13.0200
-71.0000	-23.8500	-39.6500	-24.0000	15.6500
-70.5000	-15.1200	-30.9200	-24.0000	6.9200
-70.0000	-17.7800	-33.5800	-24.0000	9.5800
-69.5000	-15.6600	-31.4600	-24.0000	7.4600
-69.0000	-18.3600	-34.1600	-24.0000	10.1600
-68.5000	-16.8000	-32.6000	-24.0000	8.6000
-68.0000	-12.8300	-28.6300	-24.0000	4.6300
-67.5000	-16.6200	-32.4200	-24.0000	8.4200
-67.0000	-19.0400	-34.8400	-24.0000	10.8400
-66.5000	-23.6600	-39.4600	-24.0000	15.4600
-66.0000	-20.3200	-36.1200	-24.0000	12.1200
-65.5000	-20.1200	-35.9200	-24.0000	11.9200
-65.0000	-18.0000	-33.8000	-24.0000	9.8000
-64.5000	-13.6500	-29.4500	-24.0000	5.4500
-64.0000	-14.9400	-30.7400	-24.0000	6.7400
-63.5000	-20.0500	-35.8500	-24.0000	11.8500
-63.0000	-27.3200	-43.1200	-24.0000	19.1200
-62.5000	-22.9700	-38.7700	-24.0000	14.7700
-62.0000	-23.4600	-39.2600	-24.0000	15.2600
-61.5000	-24.4900	-40.2900	-24.0000	16.2900
-61.0000	-25.7900	-41.5900	-24.0000	17.5900
-60.5000	-23.7100	-39.5100	-24.0000	15.5100
-60.0000	-20.2400	-36.0400	-24.0000	12.0400
-59.5000	-18.4200	-34.2200	-24.0000	10.2200
-59.0000	-15.8000	-31.6000	-24.0000	7.6000
-58.5000	-17.0800	-32.8800	-24.0000	8.8800
-58.0000	-16.4500	-32.2500	-24.0000	8.2500
-57.5000	-18.6500	-34.4500	-24.0000	10.4500
-57.0000	-17.9100	-33.7100	-24.0000	9.7100
-56.5000	-16.1700	-31.9700	-24.0000	7.9700
-56.0000	-17.6000	-33.4000	-24.0000	9.4000

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-55.5000	-17.8600	-33.6600	-24.0000	9.6600
-55.0000	-19.0600	-34.8600	-24.0000	10.8600
-54.5000	-20.0300	-35.8300	-24.0000	11.8300
-54.0000	-23.8500	-39.6500	-24.0000	15.6500
-53.5000	-21.0500	-36.8500	-24.0000	12.8500
-53.0000	-19.2100	-35.0100	-24.0000	11.0100
-52.5000	-17.1100	-32.9100	-24.0000	8.9100
-52.0000	-16.8600	-32.6600	-24.0000	8.6600
-51.5000	-13.7400	-29.5400	-24.0000	5.5400
-51.0000	-14.3400	-30.1400	-24.0000	6.1400
-50.5000	-17.0000	-32.8000	-24.0000	8.8000
-50.0000	-32.1000	-47.9000	-24.0000	23.9000
-49.5000	-23.2900	-39.0900	-24.0000	15.0900
-49.0000	-21.2400	-37.0400	-24.0000	13.0400
-48.5000	-23.1100	-38.9100	-24.0000	14.9100
-48.0000	-16.6700	-32.4700	-24.0000	8.4700
-47.5000	-14.5300	-30.3300	-23.9173	6.4127
-47.0000	-15.8100	-31.6100	-23.8024	7.8076
-46.5000	-19.2500	-35.0500	-23.6863	11.3637
-46.0000	-19.3300	-35.1300	-23.5689	11.5611
-45.5000	-16.7600	-32.5600	-23.4503	9.1097
-45.0000	-16.4700	-32.2700	-23.3303	8.9397
-44.5000	-14.9200	-30.7200	-23.2090	7.5110
-44.0000	-21.4700	-37.2700	-23.0863	14.1837
-43.5000	-21.7800	-37.5800	-22.9622	14.6178
-43.0000	-22.7900	-38.5900	-22.8367	15.7533
-42.5000	-22.0100	-37.8100	-22.7097	15.1003
-42.0000	-18.0000	-33.8000	-22.5812	11.2188
-41.5000	-15.4100	-31.2100	-22.4512	8.7588
-41.0000	-14.1200	-29.9200	-22.3196	7.6004
-40.5000	-20.4500	-36.2500	-22.1864	14.0636
-40.0000	-25.9200	-41.7200	-22.0515	19.6685
-39.5000	-21.2000	-37.0000	-21.9149	15.0851
-39.0000	-15.6700	-31.4700	-21.7766	9.6934
-38.5000	-14.7500	-30.5500	-21.6365	8.9135
-38.0000	-19.8600	-35.6600	-21.4946	14.1654
-37.5000	-27.7900	-43.5900	-21.3508	22.2392
-37.0000	-22.4300	-38.2300	-21.2050	17.0250
-36.5000	-22.3500	-38.1500	-21.0573	17.0927
-36.0000	-20.2000	-36.0000	-20.9076	15.0924
-35.5000	-14.1900	-29.9900	-20.7557	9.2343
-35.0000	-13.3400	-29.1400	-20.6017	8.5383
-34.5000	-16.9900	-32.7900	-20.4455	12.3445
-34.0000	-19.2800	-35.0800	-20.2870	14.7930
-33.5000	-12.6700	-28.4700	-20.1261	8.3439
-33.0000	-11.4700	-27.2700	-19.9628	7.3072
-32.5000	-12.7400	-28.5400	-19.7971	8.7429
-32.0000	-15.8000	-31.6000	-19.6287	11.9713
-31.5000	-19.4100	-35.2100	-19.4578	15.7522
-31.0000	-15.9600	-31.7600	-19.2840	12.4760
-30.5000	-14.6500	-30.4500	-19.1075	11.3425
-30.0000	-12.1200	-27.9200	-18.9280	8.9920
-29.5000	-10.7000	-26.5000	-18.7456	7.7544
-29.0000	-11.6700	-27.4700	-18.5599	8.9101
-28.5000	-10.6500	-26.4500	-18.3711	8.0789
-28.0000	-9.0400	-24.8400	-18.1790	6.6610
-27.5000	-10.3900	-26.1900	-17.9833	8.2067
-27.0000	-18.2200	-34.0200	-17.7841	16.2359
-26.5000	-28.8600	-44.6600	-17.5811	27.0789
-26.0000	-13.1900	-28.9900	-17.3743	11.6157
-25.5000	-8.7300	-24.5300	-17.1635	7.3665
-25.0000	-8.6900	-24.4900	-16.9485	7.5415
-24.5000	-12.5500	-28.3500	-16.7292	11.6208

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-24.0000	-12.9300	-28.7300	-16.5053	12.2247
-23.5000	-7.5300	-23.3300	-16.2767	7.0533
-23.0000	-5.4900	-21.2900	-16.0432	5.2468
-22.5000	-7.1800	-22.9800	-15.8046	7.1754
-22.0000	-11.7900	-27.5900	-15.5606	12.0294
-21.5000	-15.0100	-30.8100	-15.3110	15.4990
-21.0000	-10.7600	-26.5600	-15.0555	11.5045
-20.5000	-8.8000	-24.6000	-14.7938	9.8062
-20.0000	-12.6500	-28.4500	-14.5257	13.9243
-19.5000	-14.2700	-30.0700	-14.2509	15.8191
-19.0000	-12.1300	-27.9300	-13.9688	13.9612
-18.5000	-16.9200	-32.7200	-13.6793	19.0407
-18.0000	-4.9000	-20.7000	-13.3818	7.3182
-17.5000	-2.6100	-18.4100	-13.0760	5.3340
-17.0000	-6.3200	-22.1200	-12.7612	9.3588
-16.5000	-12.9300	-28.7300	-12.4371	16.2929
-16.0000	-8.9900	-24.7900	-12.1030	12.6870
-15.5000	-4.3100	-20.1100	-11.7583	8.3517
-15.0000	-3.5600	-19.3600	-11.4023	7.9577
-14.5000	-1.1600	-16.9600	-11.0342	5.9258
-14.0000	2.2900	-13.5100	-10.6532	2.8568
-13.5000	1.5900	-14.2100	-10.2583	3.9517
-13.0000	-1.1800	-16.9800	-9.8486	7.1314
-12.5000	-1.5300	-17.3300	-9.4228	7.9072
-12.0000	-2.2900	-18.0900	-8.9795	9.1105
-11.5000	0.6100	-15.1900	-8.5174	6.6726
-11.0000	-1.0800	-16.8800	-8.0348	8.8452
-10.5000	-18.7500	-34.5500	-7.5297	27.0203
-10.0000	-1.8100	-17.6100	-7.0000	10.6100
-9.5000	-1.3500	-17.1500	-6.4431	10.7069
-9.0000	3.9900	-11.8100	-6.0000	5.8100
-8.5000	6.4900	-9.3100	-6.0000	3.3100
-8.0000	2.7300	-13.0700	-6.0000	7.0700
-7.5000	-12.6300	-28.4300	-6.0000	22.4300
-7.0000	-1.3300	-17.1300	-6.0000	11.1300
-6.5000	3.9300	-11.8700	-5.3228	6.5472
-6.0000	8.7700	-7.0300	-4.4538	2.5762
-5.5000	10.9600	-4.8400	-3.5091	1.3309
-5.0000	11.7900	-4.0100	-2.4743	1.5357
-4.5000	11.8600	-3.9400	-1.3303	2.6097
-4.0000	9.8500	-5.9500	-0.0515	5.8985
-3.5000	9.1200	-6.6800	1.3983	8.0783
-3.0000	15.0400	-0.7600	3.0720	3.8320
-2.5000	19.3400	3.5400	5.0515	1.5115
-2.0000	13.5200	-2.2800	7.4743	9.7543
-1.5000	26.1100	10.3100	10.5977	0.2877
-1.0000	35.7900	19.9900	NaN	NaN
-0.5000	40.3000	24.5000	NaN	NaN
0	41.5900	25.7900	NaN	NaN
0.5000	40.1800	24.3800	NaN	NaN
1.0000	35.6600	19.8600	NaN	NaN
1.5000	25.9900	10.1900	10.5977	0.4077
2.0000	15.0300	-0.7700	7.4743	8.2443
2.5000	19.3800	3.5800	5.0515	1.4715
3.0000	12.7500	-3.0500	3.0720	6.1220
3.5000	3.2600	-12.5400	1.3983	13.9383
4.0000	10.1200	-5.6800	-0.0515	5.6285
4.5000	10.9500	-4.8500	-1.3303	3.5197
5.0000	7.8600	-7.9400	-2.4743	5.4657
5.5000	0.3200	-15.4800	-3.5091	11.9709
6.0000	5.7600	-10.0400	-4.4538	5.5862
6.5000	8.6500	-7.1500	-5.3228	1.8272
7.0000	5.5300	-10.2700	-6.0000	4.2700

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7.5000	-24.9700	-40.7700	-6.0000	34.7700
8.0000	4.1400	-11.6600	-6.0000	5.6600
8.5000	6.2400	-9.5600	-6.0000	3.5600
9.0000	5.5700	-10.2300	-6.0000	4.2300
9.5000	5.9500	-9.8500	-6.4431	3.4069
10.0000	4.4700	-11.3300	-7.0000	4.3300
10.5000	0.0400	-15.7600	-7.5297	8.2303
11.0000	-1.7700	-17.5700	-8.0348	9.5352
11.5000	-6.4000	-22.2000	-8.5174	13.6826
12.0000	-5.1600	-20.9600	-8.9795	11.9805
12.5000	-1.2700	-17.0700	-9.4228	7.6472
13.0000	-3.2200	-19.0200	-9.8486	9.1714
13.5000	-4.9000	-20.7000	-10.2583	10.4417
14.0000	-8.2600	-24.0600	-10.6532	13.4068
14.5000	-16.0200	-31.8200	-11.0342	20.7858
15.0000	-13.1500	-28.9500	-11.4023	17.5477
15.5000	-12.8400	-28.6400	-11.7583	16.8817
16.0000	-5.1500	-20.9500	-12.1030	8.8470
16.5000	-6.4900	-22.2900	-12.4371	9.8529
17.0000	-11.0900	-26.8900	-12.7612	14.1288
17.5000	-6.1600	-21.9600	-13.0760	8.8840
18.0000	-8.7300	-24.5300	-13.3818	11.1482
18.5000	-20.0400	-35.8400	-13.6793	22.1607
19.0000	-8.5500	-24.3500	-13.9688	10.3812
19.5000	-8.4900	-24.2900	-14.2509	10.0391
20.0000	-12.2800	-28.0800	-14.5257	13.5543
20.5000	-8.9200	-24.7200	-14.7938	9.9262
21.0000	-8.9800	-24.7800	-15.0555	9.7245
21.5000	-17.4800	-33.2800	-15.3110	17.9690
22.0000	-17.2500	-33.0500	-15.5606	17.4894
22.5000	-16.9700	-32.7700	-15.8046	16.9654
23.0000	-24.6700	-40.4700	-16.0432	24.4268
23.5000	-13.0200	-28.8200	-16.2767	12.5433
24.0000	-12.9100	-28.7100	-16.5053	12.2047
24.5000	-13.4200	-29.2200	-16.7292	12.4908
25.0000	-10.0100	-25.8100	-16.9485	8.8615
25.5000	-10.2300	-26.0300	-17.1635	8.8665
26.0000	-14.9100	-30.7100	-17.3743	13.3357
26.5000	-15.4200	-31.2200	-17.5811	13.6389
27.0000	-18.1800	-33.9800	-17.7841	16.1959
27.5000	-14.9900	-30.7900	-17.9833	12.8067
28.0000	-9.8600	-25.6600	-18.1790	7.4810
28.5000	-11.1000	-26.9000	-18.3711	8.5289
29.0000	-17.2100	-33.0100	-18.5599	14.4501
29.5000	-15.0800	-30.8800	-18.7456	12.1344
30.0000	-17.4800	-33.2800	-18.9280	14.3520
30.5000	-22.0700	-37.8700	-19.1075	18.7625
31.0000	-17.9200	-33.7200	-19.2840	14.4360
31.5000	-18.1400	-33.9400	-19.4578	14.4822
32.0000	-24.9500	-40.7500	-19.6287	21.1213
32.5000	-21.7400	-37.5400	-19.7971	17.7429
33.0000	-13.1500	-28.9500	-19.9628	8.9872
33.5000	-12.4600	-28.2600	-20.1261	8.1339
34.0000	-18.3800	-34.1800	-20.2870	13.8930
34.5000	-22.0200	-37.8200	-20.4455	17.3745
35.0000	-18.7900	-34.5900	-20.6017	13.9883
35.5000	-21.7300	-37.5300	-20.7557	16.7743
36.0000	-19.2800	-35.0800	-20.9076	14.1724
36.5000	-18.1400	-33.9400	-21.0573	12.8827
37.0000	-17.7500	-33.5500	-21.2050	12.3450
37.5000	-19.3800	-35.1800	-21.3508	13.8292
38.0000	-15.5600	-31.3600	-21.4946	9.8654
38.5000	-11.5700	-27.3700	-21.6365	5.7335

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39.0000	-11.7800	-27.5800	-21.7766	5.8034
39.5000	-16.4700	-32.2700	-21.9149	10.3551
40.0000	-22.6300	-38.4300	-22.0515	16.3785
40.5000	-24.1100	-39.9100	-22.1864	17.7236
41.0000	-21.1700	-36.9700	-22.3196	14.6504
41.5000	-18.2300	-34.0300	-22.4512	11.5788
42.0000	-21.5500	-37.3500	-22.5812	14.7688
42.5000	-26.1300	-41.9300	-22.7097	19.2203
43.0000	-18.4300	-34.2300	-22.8367	11.3933
43.5000	-19.7700	-35.5700	-22.9622	12.6078
44.0000	-31.9600	-47.7600	-23.0863	24.6737
44.5000	-19.8800	-35.6800	-23.2090	12.4710
45.0000	-16.8500	-32.6500	-23.3303	9.3197
45.5000	-20.3800	-36.1800	-23.4503	12.7297
46.0000	-21.7000	-37.5000	-23.5689	13.9311
46.5000	-27.8100	-43.6100	-23.6863	19.9237
47.0000	-27.3800	-43.1800	-23.8024	19.3776
47.5000	-21.4400	-37.2400	-23.9173	13.3227
48.0000	-17.2400	-33.0400	-24.0000	9.0400
48.5000	-22.9300	-38.7300	-24.0000	14.7300
49.0000	-23.3800	-39.1800	-24.0000	15.1800
49.5000	-18.6300	-34.4300	-24.0000	10.4300
50.0000	-22.9000	-38.7000	-24.0000	14.7000
50.5000	-22.7600	-38.5600	-24.0000	14.5600
51.0000	-13.9500	-29.7500	-24.0000	5.7500
51.5000	-11.1000	-26.9000	-24.0000	2.9000
52.0000	-13.6600	-29.4600	-24.0000	5.4600
52.5000	-18.8300	-34.6300	-24.0000	10.6300
53.0000	-24.1300	-39.9300	-24.0000	15.9300
53.5000	-24.5800	-40.3800	-24.0000	16.3800
54.0000	-29.5400	-45.3400	-24.0000	21.3400
54.5000	-26.3500	-42.1500	-24.0000	18.1500
55.0000	-17.9800	-33.7800	-24.0000	9.7800
55.5000	-17.6200	-33.4200	-24.0000	9.4200
56.0000	-16.7100	-32.5100	-24.0000	8.5100
56.5000	-18.6300	-34.4300	-24.0000	10.4300
57.0000	-19.5200	-35.3200	-24.0000	11.3200
57.5000	-25.4000	-41.2000	-24.0000	17.2000
58.0000	-25.0600	-40.8600	-24.0000	16.8600
58.5000	-24.2700	-40.0700	-24.0000	16.0700
59.0000	-24.4600	-40.2600	-24.0000	16.2600
59.5000	-18.7300	-34.5300	-24.0000	10.5300
60.0000	-16.7800	-32.5800	-24.0000	8.5800
60.5000	-18.4800	-34.2800	-24.0000	10.2800
61.0000	-19.6200	-35.4200	-24.0000	11.4200
61.5000	-23.6900	-39.4900	-24.0000	15.4900
62.0000	-23.4100	-39.2100	-24.0000	15.2100
62.5000	-17.2100	-33.0100	-24.0000	9.0100
63.0000	-14.3300	-30.1300	-24.0000	6.1300
63.5000	-15.3700	-31.1700	-24.0000	7.1700
64.0000	-15.5300	-31.3300	-24.0000	7.3300
64.5000	-15.2400	-31.0400	-24.0000	7.0400
65.0000	-15.5900	-31.3900	-24.0000	7.3900
65.5000	-16.2700	-32.0700	-24.0000	8.0700
66.0000	-29.4300	-45.2300	-24.0000	21.2300
66.5000	-25.7100	-41.5100	-24.0000	17.5100
67.0000	-18.2800	-34.0800	-24.0000	10.0800
67.5000	-16.6200	-32.4200	-24.0000	8.4200
68.0000	-14.1700	-29.9700	-24.0000	5.9700
68.5000	-11.1500	-26.9500	-24.0000	2.9500
69.0000	-11.2000	-27.0000	-24.0000	3.0000
69.5000	-15.3600	-31.1600	-24.0000	7.1600
70.0000	-26.1300	-41.9300	-24.0000	17.9300

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70.5000	-33.7000	-49.5000	-24.0000	25.5000
71.0000	-23.3500	-39.1500	-24.0000	15.1500
71.5000	-22.0600	-37.8600	-24.0000	13.8600
72.0000	-25.7200	-41.5200	-24.0000	17.5200
72.5000	-19.7300	-35.5300	-24.0000	11.5300
73.0000	-21.4100	-37.2100	-24.0000	13.2100
73.5000	-19.1100	-34.9100	-24.0000	10.9100
74.0000	-23.9200	-39.7200	-24.0000	15.7200
74.5000	-16.8000	-32.6000	-24.0000	8.6000
75.0000	-14.5100	-30.3100	-24.0000	6.3100
75.5000	-12.7800	-28.5800	-24.0000	4.5800
76.0000	-13.6100	-29.4100	-24.0000	5.4100
76.5000	-14.1800	-29.9800	-24.0000	5.9800
77.0000	-12.5900	-28.3900	-24.0000	4.3900
77.5000	-13.8200	-29.6200	-24.0000	5.6200
78.0000	-19.0800	-34.8800	-24.0000	10.8800
78.5000	-27.8300	-43.6300	-24.0000	19.6300
79.0000	-23.8400	-39.6400	-24.0000	15.6400
79.5000	-23.2700	-39.0700	-24.0000	15.0700
80.0000	-26.4300	-42.2300	-24.0000	18.2300
80.5000	-20.4700	-36.2700	-24.0000	12.2700
81.0000	-14.4800	-30.2800	-24.0000	6.2800
81.5000	-15.1300	-30.9300	-24.0000	6.9300
82.0000	-12.2200	-28.0200	-24.0000	4.0200
82.5000	-11.3100	-27.1100	-24.0000	3.1100
83.0000	-9.7100	-25.5100	-24.0000	1.5100
83.5000	-10.7000	-26.5000	-24.0000	2.5000
84.0000	-11.7300	-27.5300	-24.0000	3.5300
84.5000	-12.0300	-27.8300	-24.0000	3.8300
85.0000	-13.4200	-29.2200	-14.0000	15.2200
85.5000	-14.1000	-29.9000	-14.0000	15.9000
86.0000	-14.0900	-29.8900	-14.0000	15.8900
86.5000	-10.9000	-26.7000	-14.0000	12.7000
87.0000	-8.8600	-24.6600	-14.0000	10.6600
87.5000	-9.4500	-25.2500	-14.0000	11.2500
88.0000	-9.9700	-25.7700	-14.0000	11.7700
88.5000	-8.8300	-24.6300	-14.0000	10.6300
89.0000	-8.7500	-24.5500	-14.0000	10.5500
89.5000	-10.9100	-26.7100	-14.0000	12.7100
90.0000	-10.7700	-26.5700	-14.0000	12.5700
90.5000	-11.4500	-27.2500	-14.0000	13.2500
91.0000	-17.5100	-33.3100	-14.0000	19.3100
91.5000	-31.8700	-47.6700	-14.0000	33.6700
92.0000	-31.0600	-46.8600	-14.0000	32.8600
92.5000	-17.7700	-33.5700	-14.0000	19.5700
93.0000	-12.4100	-28.2100	-14.0000	14.2100
93.5000	-12.0600	-27.8600	-14.0000	13.8600
94.0000	-11.5400	-27.3400	-14.0000	13.3400
94.5000	-9.8700	-25.6700	-14.0000	11.6700
95.0000	-10.6500	-26.4500	-14.0000	12.4500
95.5000	-11.0200	-26.8200	-14.0000	12.8200
96.0000	-11.5300	-27.3300	-14.0000	13.3300
96.5000	-12.8400	-28.6400	-14.0000	14.6400
97.0000	-14.7100	-30.5100	-14.0000	16.5100
97.5000	-14.2400	-30.0400	-14.0000	16.0400
98.0000	-14.9600	-30.7600	-14.0000	16.7600
98.5000	-16.2400	-32.0400	-14.0000	18.0400
99.0000	-16.5800	-32.3800	-14.0000	18.3800
99.5000	-17.6200	-33.4200	-14.0000	19.4200
100.0000	-18.1500	-33.9500	-14.0000	19.9500
100.5000	-18.1100	-33.9100	-14.0000	19.9100
101.0000	-18.1600	-33.9600	-14.0000	19.9600
101.5000	-19.4600	-35.2600	-14.0000	21.2600

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102.0000	-17.0200	-32.8200	-14.0000	18.8200
102.5000	-15.7900	-31.5900	-14.0000	17.5900
103.0000	-15.2100	-31.0100	-14.0000	17.0100
103.5000	-15.5400	-31.3400	-14.0000	17.3400
104.0000	-15.9500	-31.7500	-14.0000	17.7500
104.5000	-14.5000	-30.3000	-14.0000	16.3000
105.0000	-14.4900	-30.2900	-14.0000	16.2900
105.5000	-15.6700	-31.4700	-14.0000	17.4700
106.0000	-16.6500	-32.4500	-14.0000	18.4500
106.5000	-18.1600	-33.9600	-14.0000	19.9600
107.0000	-18.7600	-34.5600	-14.0000	20.5600
107.5000	-19.3700	-35.1700	-14.0000	21.1700
108.0000	-21.0300	-36.8300	-14.0000	22.8300
108.5000	-21.0700	-36.8700	-14.0000	22.8700
109.0000	-21.1600	-36.9600	-14.0000	22.9600
109.5000	-22.7900	-38.5900	-14.0000	24.5900
110.0000	-21.6100	-37.4100	-14.0000	23.4100
110.5000	-20.2200	-36.0200	-14.0000	22.0200
111.0000	-24.9400	-40.7400	-14.0000	26.7400
111.5000	-29.2000	-45.0000	-14.0000	31.0000
112.0000	-22.6800	-38.4800	-14.0000	24.4800
112.5000	-23.8000	-39.6000	-14.0000	25.6000
113.0000	-29.1200	-44.9200	-14.0000	30.9200
113.5000	-29.1500	-44.9500	-14.0000	30.9500
114.0000	-26.7300	-42.5300	-14.0000	28.5300
114.5000	-26.2300	-42.0300	-14.0000	28.0300
115.0000	-28.7300	-44.5300	-14.0000	30.5300
115.5000	-27.1700	-42.9700	-14.0000	28.9700
116.0000	-31.4900	-47.2900	-14.0000	33.2900
116.5000	-27.8000	-43.6000	-14.0000	29.6000
117.0000	-30.1800	-45.9800	-14.0000	31.9800
117.5000	-35.0100	-50.8100	-14.0000	36.8100
118.0000	-36.5400	-52.3400	-14.0000	38.3400
118.5000	-38.5500	-54.3500	-14.0000	40.3500
119.0000	-30.9300	-46.7300	-14.0000	32.7300
119.5000	-34.2700	-50.0700	-14.0000	36.0700
120.0000	-34.7300	-50.5300	-14.0000	36.5300
120.5000	-35.3200	-51.1200	-14.0000	37.1200
121.0000	-29.4000	-45.2000	-14.0000	31.2000
121.5000	-24.7500	-40.5500	-14.0000	26.5500
122.0000	-27.2000	-43.0000	-14.0000	29.0000
122.5000	-35.0600	-50.8600	-14.0000	36.8600
123.0000	-27.3100	-43.1100	-14.0000	29.1100
123.5000	-25.2700	-41.0700	-14.0000	27.0700
124.0000	-26.6800	-42.4800	-14.0000	28.4800
124.5000	-31.4300	-47.2300	-14.0000	33.2300
125.0000	-35.1700	-50.9700	-14.0000	36.9700
125.5000	-25.0000	-40.8000	-14.0000	26.8000
126.0000	-23.3900	-39.1900	-14.0000	25.1900
126.5000	-25.3400	-41.1400	-14.0000	27.1400
127.0000	-34.3300	-50.1300	-14.0000	36.1300
127.5000	-27.8800	-43.6800	-14.0000	29.6800
128.0000	-27.0300	-42.8300	-14.0000	28.8300
128.5000	-29.4600	-45.2600	-14.0000	31.2600
129.0000	-31.9600	-47.7600	-14.0000	33.7600
129.5000	-33.0200	-48.8200	-14.0000	34.8200
130.0000	-40.1900	-55.9900	-14.0000	41.9900
130.5000	-31.7500	-47.5500	-14.0000	33.5500
131.0000	-28.4100	-44.2100	-14.0000	30.2100
131.5000	-31.3300	-47.1300	-14.0000	33.1300
132.0000	-27.0600	-42.8600	-14.0000	28.8600
132.5000	-25.2700	-41.0700	-14.0000	27.0700
133.0000	-27.1800	-42.9800	-14.0000	28.9800

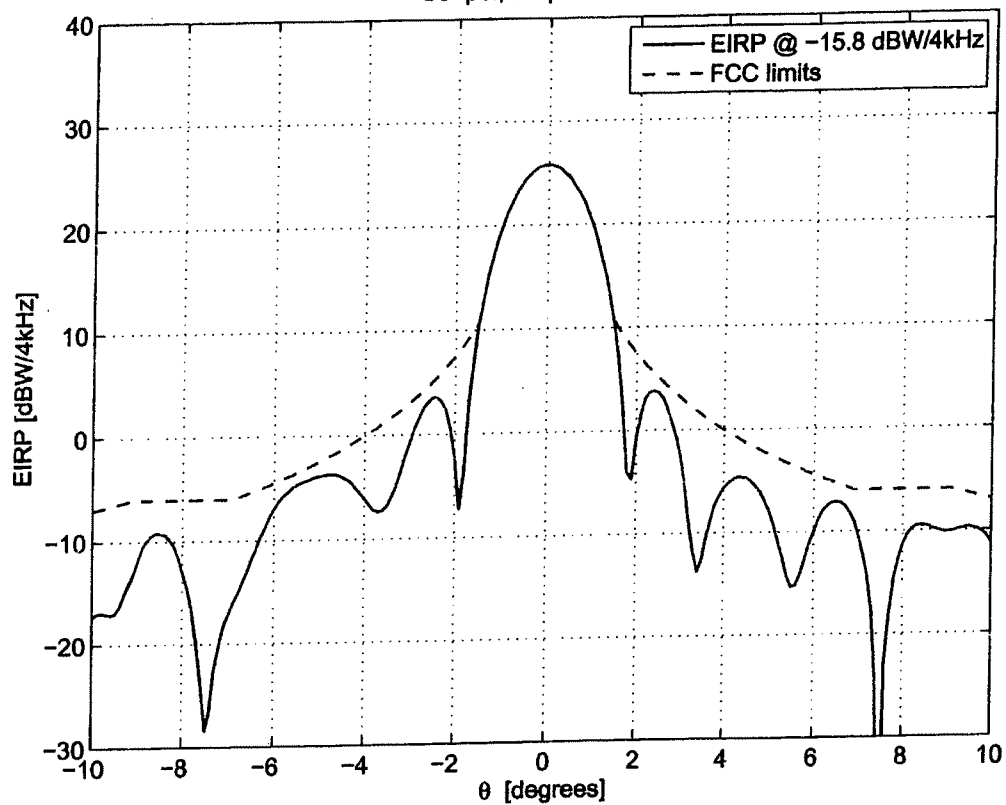
Sailor900_EIRPtable_Cop01_th175_f1425.TXT

133.5000	-28.2000	-44.0000	-14.0000	30.0000
134.0000	-33.4400	-49.2400	-14.0000	35.2400
134.5000	-30.2700	-46.0700	-14.0000	32.0700
135.0000	-25.2200	-41.0200	-14.0000	27.0200
135.5000	-31.7200	-47.5200	-14.0000	33.5200
136.0000	-38.5700	-54.3700	-14.0000	40.3700
136.5000	-34.6700	-50.4700	-14.0000	36.4700
137.0000	-25.4000	-41.2000	-14.0000	27.2000
137.5000	-30.4900	-46.2900	-14.0000	32.2900
138.0000	-32.5800	-48.3800	-14.0000	34.3800
138.5000	-34.9600	-50.7600	-14.0000	36.7600
139.0000	-32.6200	-48.4200	-14.0000	34.4200
139.5000	-30.3700	-46.1700	-14.0000	32.1700
140.0000	-32.8600	-48.6600	-14.0000	34.6600
140.5000	-41.2100	-57.0100	-14.0000	43.0100
141.0000	-39.6800	-55.4800	-14.0000	41.4800
141.5000	-32.8700	-48.6700	-14.0000	34.6700
142.0000	-32.5200	-48.3200	-14.0000	34.3200
142.5000	-29.1000	-44.9000	-14.0000	30.9000
143.0000	-38.5700	-54.3700	-14.0000	40.3700
143.5000	-47.8600	-63.6600	-14.0000	49.6600
144.0000	-35.2400	-51.0400	-14.0000	37.0400
144.5000	-37.2400	-53.0400	-14.0000	39.0400
145.0000	-42.4500	-58.2500	-14.0000	44.2500
145.5000	-34.0900	-49.8900	-14.0000	35.8900
146.0000	-36.1600	-51.9600	-14.0000	37.9600
146.5000	-39.3500	-55.1500	-14.0000	41.1500
147.0000	-32.0000	-47.8000	-14.0000	33.8000
147.5000	-24.9500	-40.7500	-14.0000	26.7500
148.0000	-29.5700	-45.3700	-14.0000	31.3700
148.5000	-26.4300	-42.2300	-14.0000	28.2300
149.0000	-25.9700	-41.7700	-14.0000	27.7700
149.5000	-30.6600	-46.4600	-14.0000	32.4600
150.0000	-35.5300	-51.3300	-14.0000	37.3300
150.5000	-50.8900	-66.6900	-14.0000	52.6900
151.0000	-37.6500	-53.4500	-14.0000	39.4500
151.5000	-31.0500	-46.8500	-14.0000	32.8500
152.0000	-30.4000	-46.2000	-14.0000	32.2000
152.5000	-30.5300	-46.3300	-14.0000	32.3300
153.0000	-47.2000	-63.0000	-14.0000	49.0000
153.5000	-29.1300	-44.9300	-14.0000	30.9300
154.0000	-28.7100	-44.5100	-14.0000	30.5100
154.5000	-32.8800	-48.6800	-14.0000	34.6800
155.0000	-36.7800	-52.5800	-14.0000	38.5800
155.5000	-25.6600	-41.4600	-14.0000	27.4600
156.0000	-27.9300	-43.7300	-14.0000	29.7300
156.5000	-32.5700	-48.3700	-14.0000	34.3700
157.0000	-28.2000	-44.0000	-14.0000	30.0000
157.5000	-38.8200	-54.6200	-14.0000	40.6200
158.0000	-31.7800	-47.5800	-14.0000	33.5800
158.5000	-34.8100	-50.6100	-14.0000	36.6100
159.0000	-24.3500	-40.1500	-14.0000	26.1500
159.5000	-26.0300	-41.8300	-14.0000	27.8300
160.0000	-32.7700	-48.5700	-14.0000	34.5700
160.5000	-23.9200	-39.7200	-14.0000	25.7200
161.0000	-27.1900	-42.9900	-14.0000	28.9900
161.5000	-34.7800	-50.5800	-14.0000	36.5800
162.0000	-28.6300	-44.4300	-14.0000	30.4300
162.5000	-33.9600	-49.7600	-14.0000	35.7600
163.0000	-32.0600	-47.8600	-14.0000	33.8600
163.5000	-41.5300	-57.3300	-14.0000	43.3300
164.0000	-29.4900	-45.2900	-14.0000	31.2900
164.5000	-28.5600	-44.3600	-14.0000	30.3600

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165.0000	-41.5700	-57.3700	-14.0000	43.3700
165.5000	-30.1400	-45.9400	-14.0000	31.9400
166.0000	-29.0600	-44.8600	-14.0000	30.8600
166.5000	-41.0800	-56.8800	-14.0000	42.8800
167.0000	-31.7000	-47.5000	-14.0000	33.5000
167.5000	-27.0200	-42.8200	-14.0000	28.8200
168.0000	-29.5600	-45.3600	-14.0000	31.3600
168.5000	-29.5200	-45.3200	-14.0000	31.3200
169.0000	-20.8300	-36.6300	-14.0000	22.6300
169.5000	-24.7500	-40.5500	-14.0000	26.5500
170.0000	-38.6800	-54.4800	-14.0000	40.4800
170.5000	-27.9800	-43.7800	-14.0000	29.7800
171.0000	-20.1700	-35.9700	-14.0000	21.9700
171.5000	-17.7800	-33.5800	-14.0000	19.5800
172.0000	-17.7500	-33.5500	-14.0000	19.5500
172.5000	-17.6200	-33.4200	-14.0000	19.4200
173.0000	-17.6600	-33.4600	-14.0000	19.4600
173.5000	-17.0500	-32.8500	-14.0000	18.8500
174.0000	-18.5000	-34.3000	-14.0000	20.3000
174.5000	-19.7900	-35.5900	-14.0000	21.5900
175.0000	-19.3200	-35.1200	-14.0000	21.1200

Co-pol, freq=14.25 GHz



Co-pol, freq=14.25 GHz

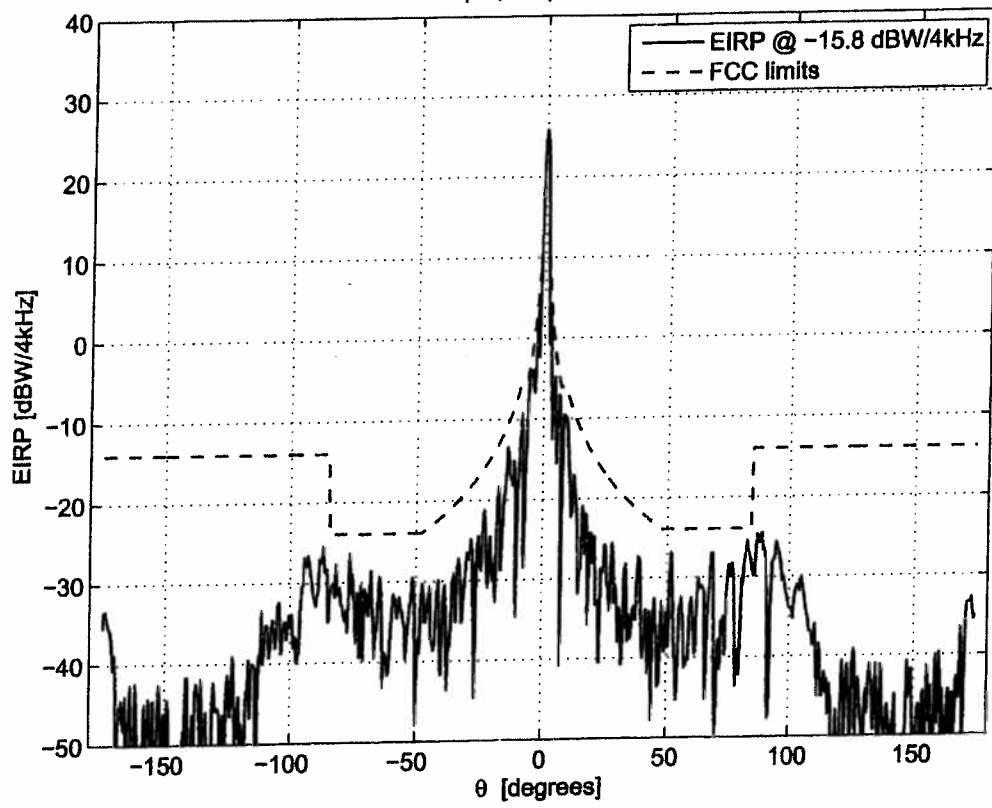


EXHIBIT 3

25.222(b)(1)(i)(B) Tables for the Thrane & Thrane Model

TT-7090A Sailor 900 1.0 Meter Ku-band Antennas

Sailor900_EIRPtable_Copol_th10_f1425.TXT

Sailor 900 with Radome
 EIRP FCC-compliance
 Based on measurement at Eutelsat Test range in La Turbie, France

Polarization: Co-pol
 Freq:
 14.25 GHz
 Main beam co-pol. gain: 41.6 dBi
 Spectral Power density: -15.8 dB/4kHz

Theta	Gain	EIRP	FCC limit	FCC margin
-10.0000	-1.5700	-17.3700	-7.0000	10.3700
-9.9000	-1.2100	-17.0100	-6.8909	10.1191
-9.8000	-1.1200	-16.9200	-6.7807	10.1393
-9.7000	-1.2300	-17.0300	-6.6693	10.3607
-9.6000	-1.3300	-17.1300	-6.5568	10.5732
-9.5000	-1.1300	-16.9300	-6.4431	10.4869
-9.4000	-0.5500	-16.3500	-6.3282	10.0218
-9.3000	0.6100	-15.1900	-6.2121	8.9779
-9.2000	1.7900	-14.0100	-6.0947	7.9153
-9.1000	2.9300	-12.8700	-6.0000	6.8700
-9.0000	4.1800	-11.6200	-6.0000	5.6200
-8.9000	5.1600	-10.6400	-6.0000	4.6400
-8.8000	5.8000	-10.0000	-6.0000	4.0000
-8.7000	6.3100	-9.4900	-6.0000	3.4900
-8.6000	6.5800	-9.2200	-6.0000	3.2200
-8.5000	6.5800	-9.2200	-6.0000	3.2200
-8.4000	6.4100	-9.3900	-6.0000	3.3900
-8.3000	5.9600	-9.8400	-6.0000	3.8400
-8.2000	5.3400	-10.4600	-6.0000	4.4600
-8.1000	4.2600	-11.5400	-6.0000	5.5400
-8.0000	2.8000	-13.0000	-6.0000	7.0000
-7.9000	1.1900	-14.6100	-6.0000	8.6100
-7.8000	-0.9400	-16.7400	-6.0000	10.7400
-7.7000	-4.3300	-20.1300	-6.0000	14.1300
-7.6000	-8.2700	-24.0700	-6.0000	18.0700
-7.5000	-12.6100	-28.4100	-6.0000	22.4100
-7.4000	-10.5900	-26.3900	-6.0000	20.3900
-7.3000	-6.6600	-22.4600	-6.0000	16.4600
-7.2000	-4.3000	-20.1000	-6.0000	14.1000
-7.1000	-2.4600	-18.2600	-6.0000	12.2600
-7.0000	-1.3400	-17.1400	-6.0000	11.1400
-6.9000	-0.2500	-16.0500	-5.9712	10.0788
-6.8000	0.5800	-15.2200	-5.8127	9.4073
-6.7000	1.6500	-14.1500	-5.6519	8.4981
-6.6000	2.6000	-13.2000	-5.4886	7.7114
-6.5000	3.8500	-11.9500	-5.3228	6.6272
-6.4000	4.8900	-10.9100	-5.1545	5.7555
-6.3000	6.1200	-9.6800	-4.9835	4.6965
-6.2000	7.0600	-8.7400	-4.8098	3.9302
-6.1000	8.0700	-7.7300	-4.6332	3.0968
-6.0000	8.7900	-7.0100	-4.4538	2.5562
-5.9000	9.5200	-6.2800	-4.2713	2.0087
-5.8000	10.0300	-5.7700	-4.0857	1.6843
-5.7000	10.4200	-5.3800	-3.8969	1.4831
-5.6000	10.8300	-4.9700	-3.7047	1.2653
-5.5000	11.1300	-4.6700	-3.5091	1.1609
-5.4000	11.3300	-4.4700	-3.3098	1.1602
-5.3000	11.4900	-4.3100	-3.1069	1.2031
-5.2000	11.6600	-4.1400	-2.9001	1.2399
-5.1000	11.8200	-3.9800	-2.6893	1.2907

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-5.0000	11.9300	-3.8700	-2.4743	1.3957
-4.9000	12.0200	-3.7800	-2.2549	1.5251
-4.8000	12.0600	-3.7400	-2.0310	1.7090
-4.7000	12.0700	-3.7300	-1.8024	1.9276
-4.6000	12.0100	-3.7900	-1.5689	2.2211
-4.5000	11.8400	-3.9600	-1.3303	2.6297
-4.4000	11.5900	-4.2100	-1.0863	3.1237
-4.3000	11.2700	-4.5300	-0.8367	3.6933
-4.2000	10.7700	-5.0300	-0.5812	4.4488
-4.1000	10.2900	-5.5100	-0.3196	5.1904
-4.0000	9.6800	-6.1200	-0.0515	6.0685
-3.9000	9.1300	-6.6700	0.2234	6.8934
-3.8000	8.6300	-7.1700	0.5054	7.6754
-3.7000	8.4100	-7.3900	0.7950	8.1850
-3.6000	8.5100	-7.2900	1.0924	8.3824
-3.5000	8.9300	-6.8700	1.3983	8.2683
-3.4000	9.8600	-5.9400	1.7130	7.6530
-3.3000	10.8900	-4.9100	2.0372	6.9472
-3.2000	12.3300	-3.4700	2.3713	5.8413
-3.1000	13.8200	-1.9800	2.7160	4.6960
-3.0000	15.0500	-0.7500	3.0720	3.8220
-2.9000	16.3700	0.5700	3.4401	2.8701
-2.8000	17.3700	1.5700	3.8210	2.2510
-2.7000	18.3400	2.5400	4.2159	1.6759
-2.6000	18.9000	3.1000	4.6257	1.5257
-2.5000	19.3100	3.5100	5.0515	1.5415
-2.4000	19.3500	3.5500	5.4947	1.9447
-2.3000	18.9700	3.1700	5.9568	2.7868
-2.2000	18.1900	2.3900	6.4394	4.0494
-2.1000	16.3100	0.5100	6.9445	6.4345
-2.0000	13.4600	-2.3400	7.4743	9.8143
-1.9000	8.5500	-7.2500	8.0312	15.2812
-1.8000	12.0500	-3.7500	8.6182	12.3682
-1.7000	18.7500	2.9500	9.2388	6.2888
-1.6000	22.7200	6.9200	9.8970	2.9770
-1.5000	26.3200	10.5200	10.5977	0.0777
-1.4000	28.7100	12.9100	NaN	NaN
-1.3000	31.0700	15.2700	NaN	NaN
-1.2000	32.7600	16.9600	NaN	NaN
-1.1000	34.4900	18.6900	NaN	NaN
-1.0000	35.7400	19.9400	NaN	NaN
-0.9000	37.0500	21.2500	NaN	NaN
-0.8000	37.9600	22.1600	NaN	NaN
-0.7000	38.9100	23.1100	NaN	NaN
-0.6000	39.5700	23.7700	NaN	NaN
-0.5000	40.2400	24.4400	NaN	NaN
-0.4000	40.7100	24.9100	NaN	NaN
-0.3000	41.1200	25.3200	NaN	NaN
-0.2000	41.4100	25.6100	NaN	NaN
-0.1000	41.5400	25.7400	NaN	NaN
0	41.5900	25.7900	NaN	NaN
0.1000	41.5400	25.7400	NaN	NaN
0.2000	41.3600	25.5600	NaN	NaN
0.3000	41.1000	25.3000	NaN	NaN
0.4000	40.6600	24.8600	NaN	NaN
0.5000	40.2000	24.4000	NaN	NaN
0.6000	39.5000	23.7000	NaN	NaN
0.7000	38.8000	23.0000	NaN	NaN
0.8000	38.0000	22.2000	NaN	NaN
0.9000	36.8500	21.0500	NaN	NaN
1.0000	35.7300	19.9300	NaN	NaN
1.1000	34.2300	18.4300	NaN	NaN
1.2000	32.4100	16.6100	NaN	NaN

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7.6000	-7.2200	-23.0200	-6.0000	17.0200
7.7000	-2.2100	-18.0100	-6.0000	12.0100
7.8000	1.1300	-14.6700	-6.0000	8.6700
7.9000	2.9800	-12.8200	-6.0000	6.8200
8.0000	4.4200	-11.3800	-6.0000	5.3800
8.1000	5.3600	-10.4400	-6.0000	4.4400
8.2000	5.8900	-9.9100	-6.0000	3.9100
8.3000	6.2200	-9.5800	-6.0000	3.5800
8.4000	6.3200	-9.4800	-6.0000	3.4800
8.5000	6.2900	-9.5100	-6.0000	3.5100
8.6000	6.1700	-9.6300	-6.0000	3.6300
8.7000	5.9800	-9.8200	-6.0000	3.8200
8.8000	5.8400	-9.9600	-6.0000	3.9600
8.9000	5.7100	-10.0900	-6.0000	4.0900
9.0000	5.6500	-10.1500	-6.0000	4.1500
9.1000	5.6900	-10.1100	-6.0000	4.1100
9.2000	5.7900	-10.0100	-6.0947	3.9153
9.3000	5.9300	-9.8700	-6.2121	3.6579
9.4000	6.0300	-9.7700	-6.3282	3.4418
9.5000	6.0900	-9.7100	-6.4431	3.2669
9.6000	6.0100	-9.7900	-6.5568	3.2332
9.7000	5.8700	-9.9300	-6.6693	3.2607
9.8000	5.6200	-10.1800	-6.7807	3.3993
9.9000	5.1600	-10.6400	-6.8909	3.7491
10.0000	4.5000	-11.3000	-7.0000	4.3000

Sailor900_EIRPtable_Copol_th175_f1425.TXT

Sailor 900 with Radome
 EIRP FCC-compliance
 Based on measurement at Eutelsat Test range in La Turbie, France

Polarization: Co-pol
 Freq:
 14.25 GHz
 Main beam co-pol. gain: 41.6 dBi
 Spectral Power density: -15.8 dB/4kHz

Theta	Gain	EIRP	FCC limit	FCC margin
-175.0000	-19.6700	-35.4700	-14.0000	21.4700
-174.5000	-17.6300	-33.4300	-14.0000	19.4300
-174.0000	-17.5600	-33.3600	-14.0000	19.3600
-173.5000	-18.4200	-34.2200	-14.0000	20.2200
-173.0000	-19.4900	-35.2900	-14.0000	21.2900
-172.5000	-19.7900	-35.5900	-14.0000	21.5900
-172.0000	-20.1900	-35.9900	-14.0000	21.9900
-171.5000	-21.6900	-37.4900	-14.0000	23.4900
-171.0000	-24.8000	-40.6000	-14.0000	26.6000
-170.5000	-23.0200	-38.8200	-14.0000	24.8200
-170.0000	-25.7600	-41.5600	-14.0000	27.5600
-169.5000	-39.1500	-54.9500	-14.0000	40.9500
-169.0000	-35.2800	-51.0800	-14.0000	37.0800
-168.5000	-29.3500	-45.1500	-14.0000	31.1500
-168.0000	-30.8000	-46.6000	-14.0000	32.6000
-167.5000	-28.6400	-44.4400	-14.0000	30.4400
-167.0000	-31.0600	-46.8600	-14.0000	32.8600
-166.5000	-32.3300	-48.1300	-14.0000	34.1300
-166.0000	-28.1800	-43.9800	-14.0000	29.9800
-165.5000	-37.3000	-53.1000	-14.0000	39.1000
-165.0000	-31.4000	-47.2000	-14.0000	33.2000
-164.5000	-32.1100	-47.9100	-14.0000	33.9100
-164.0000	-26.7700	-42.5700	-14.0000	28.5700
-163.5000	-53.3700	-69.1700	-14.0000	55.1700
-163.0000	-35.1100	-50.9100	-14.0000	36.9100
-162.5000	-33.5700	-49.3700	-14.0000	35.3700
-162.0000	-26.6100	-42.4100	-14.0000	28.4100
-161.5000	-29.9900	-45.7900	-14.0000	31.7900
-161.0000	-34.2700	-50.0700	-14.0000	36.0700
-160.5000	-41.6200	-57.4200	-14.0000	43.4200
-160.0000	-37.4700	-53.2700	-14.0000	39.2700
-159.5000	-38.3500	-54.1500	-14.0000	40.1500
-159.0000	-37.0800	-52.8800	-14.0000	38.8800
-158.5000	-32.2400	-48.0400	-14.0000	34.0400
-158.0000	-29.2400	-45.0400	-14.0000	31.0400
-157.5000	-34.6700	-50.4700	-14.0000	36.4700
-157.0000	-33.0500	-48.8500	-14.0000	34.8500
-156.5000	-28.4900	-44.2900	-14.0000	30.2900
-156.0000	-30.5200	-46.3200	-14.0000	32.3200
-155.5000	-35.1300	-50.9300	-14.0000	36.9300
-155.0000	-33.5000	-49.3000	-14.0000	35.3000
-154.5000	-28.7400	-44.5400	-14.0000	30.5400
-154.0000	-44.8100	-60.6100	-14.0000	46.6100
-153.5000	-35.3200	-51.1200	-14.0000	37.1200
-153.0000	-32.1200	-47.9200	-14.0000	33.9200
-152.5000	-26.7900	-42.5900	-14.0000	28.5900
-152.0000	-30.8200	-46.6200	-14.0000	32.6200
-151.5000	-38.8600	-54.6600	-14.0000	40.6600
-151.0000	-31.6800	-47.4800	-14.0000	33.4800
-150.5000	-30.3200	-46.1200	-14.0000	32.1200

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-150.0000	-34.7200	-50.5200	-14.0000	36.5200
-149.5000	-38.6100	-54.4100	-14.0000	40.4100
-149.0000	-28.6300	-44.4300	-14.0000	30.4300
-148.5000	-31.3700	-47.1700	-14.0000	33.1700
-148.0000	-42.9900	-58.7900	-14.0000	44.7900
-147.5000	-35.4100	-51.2100	-14.0000	37.2100
-147.0000	-38.1300	-53.9300	-14.0000	39.9300
-146.5000	-39.5800	-55.3800	-14.0000	41.3800
-146.0000	-35.3700	-51.1700	-14.0000	37.1700
-145.5000	-35.7800	-51.5800	-14.0000	37.5800
-145.0000	-42.4400	-58.2400	-14.0000	44.2400
-144.5000	-44.8300	-60.6300	-14.0000	46.6300
-144.0000	-35.6400	-51.4400	-14.0000	37.4400
-143.5000	-42.0700	-57.8700	-14.0000	43.8700
-143.0000	-39.8200	-55.6200	-14.0000	41.6200
-142.5000	-32.5400	-48.3400	-14.0000	34.3400
-142.0000	-35.2100	-51.0100	-14.0000	37.0100
-141.5000	-25.9600	-41.7600	-14.0000	27.7600
-141.0000	-25.8100	-41.6100	-14.0000	27.6100
-140.5000	-39.3800	-55.1800	-14.0000	41.1800
-140.0000	-36.4600	-52.2600	-14.0000	38.2600
-139.5000	-34.1100	-49.9100	-14.0000	35.9100
-139.0000	-30.5200	-46.3200	-14.0000	32.3200
-138.5000	-40.5300	-56.3300	-14.0000	42.3300
-138.0000	-27.8400	-43.6400	-14.0000	29.6400
-137.5000	-26.6400	-42.4400	-14.0000	28.4400
-137.0000	-28.1200	-43.9200	-14.0000	29.9200
-136.5000	-27.9300	-43.7300	-14.0000	29.7300
-136.0000	-34.4200	-50.2200	-14.0000	36.2200
-135.5000	-26.0700	-41.8700	-14.0000	27.8700
-135.0000	-33.9900	-49.7900	-14.0000	35.7900
-134.5000	-31.9400	-47.7400	-14.0000	33.7400
-134.0000	-31.9900	-47.7900	-14.0000	33.7900
-133.5000	-30.2300	-46.0300	-14.0000	32.0300
-133.0000	-42.0200	-57.8200	-14.0000	43.8200
-132.5000	-35.2800	-51.0800	-14.0000	37.0800
-132.0000	-35.0200	-50.8200	-14.0000	36.8200
-131.5000	-51.9500	-67.7500	-14.0000	53.7500
-131.0000	-29.7100	-45.5100	-14.0000	31.5100
-130.5000	-26.5200	-42.3200	-14.0000	28.3200
-130.0000	-29.6700	-45.4700	-14.0000	31.4700
-129.5000	-30.0300	-45.8300	-14.0000	31.8300
-129.0000	-29.7200	-45.5200	-14.0000	31.5200
-128.5000	-30.0300	-45.8300	-14.0000	31.8300
-128.0000	-30.8100	-46.6100	-14.0000	32.6100
-127.5000	-39.9500	-55.7500	-14.0000	41.7500
-127.0000	-31.6000	-47.4000	-14.0000	33.4000
-126.5000	-30.5200	-46.3200	-14.0000	32.3200
-126.0000	-39.7100	-55.5100	-14.0000	41.5100
-125.5000	-27.5200	-43.3200	-14.0000	29.3200
-125.0000	-25.5700	-41.3700	-14.0000	27.3700
-124.5000	-29.8100	-45.6100	-14.0000	31.6100
-124.0000	-30.6600	-46.4600	-14.0000	32.4600
-123.5000	-29.3100	-45.1100	-14.0000	31.1100
-123.0000	-23.3000	-39.1000	-14.0000	25.1000
-122.5000	-26.4800	-42.2800	-14.0000	28.2800
-122.0000	-35.7700	-51.5700	-14.0000	37.5700
-121.5000	-29.7600	-45.5600	-14.0000	31.5600
-121.0000	-33.3400	-49.1400	-14.0000	35.1400
-120.5000	-28.3200	-44.1200	-14.0000	30.1200
-120.0000	-33.8700	-49.6700	-14.0000	35.6700
-119.5000	-31.7200	-47.5200	-14.0000	33.5200
-119.0000	-36.7900	-52.5900	-14.0000	38.5900

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-118.5000	-34.2800	-50.0800	-14.0000	36.0800
-118.0000	-35.2000	-51.0000	-14.0000	37.0000
-117.5000	-27.6800	-43.4800	-14.0000	29.4800
-117.0000	-28.7000	-44.5000	-14.0000	30.5000
-116.5000	-23.7300	-39.5300	-14.0000	25.5300
-116.0000	-30.8800	-46.6800	-14.0000	32.6800
-115.5000	-24.9800	-40.7800	-14.0000	26.7800
-115.0000	-24.3200	-40.1200	-14.0000	26.1200
-114.5000	-24.4400	-40.2400	-14.0000	26.2400
-114.0000	-24.7400	-40.5400	-14.0000	26.5400
-113.5000	-40.6500	-56.4500	-14.0000	42.4500
-113.0000	-28.5100	-44.3100	-14.0000	30.3100
-112.5000	-23.1500	-38.9500	-14.0000	24.9500
-112.0000	-24.0500	-39.8500	-14.0000	25.8500
-111.5000	-17.6000	-33.4000	-14.0000	19.4000
-111.0000	-24.2100	-40.0100	-14.0000	26.0100
-110.5000	-23.0700	-38.8700	-14.0000	24.8700
-110.0000	-19.6400	-35.4400	-14.0000	21.4400
-109.5000	-19.3800	-35.1800	-14.0000	21.1800
-109.0000	-19.7300	-35.5300	-14.0000	21.5300
-108.5000	-23.4200	-39.2200	-14.0000	25.2200
-108.0000	-22.3400	-38.1400	-14.0000	24.1400
-107.5000	-19.8200	-35.6200	-14.0000	21.6200
-107.0000	-18.8000	-34.6000	-14.0000	20.6000
-106.5000	-19.8200	-35.6200	-14.0000	21.6200
-106.0000	-22.1300	-37.9300	-14.0000	23.9300
-105.5000	-20.7700	-36.5700	-14.0000	22.5700
-105.0000	-16.9200	-32.7200	-14.0000	18.7200
-104.5000	-16.5700	-32.3700	-14.0000	18.3700
-104.0000	-18.5300	-34.3300	-14.0000	20.3300
-103.5000	-22.9300	-38.7300	-14.0000	24.7300
-103.0000	-20.2300	-36.0300	-14.0000	22.0300
-102.5000	-19.2100	-35.0100	-14.0000	21.0100
-102.0000	-19.0500	-34.8500	-14.0000	20.8500
-101.5000	-21.1300	-36.9300	-14.0000	22.9300
-101.0000	-19.2900	-35.0900	-14.0000	21.0900
-100.5000	-18.2100	-34.0100	-14.0000	20.0100
-100.0000	-19.6200	-35.4200	-14.0000	21.4200
-99.5000	-18.1500	-33.9500	-14.0000	19.9500
-99.0000	-20.7600	-36.5600	-14.0000	22.5600
-98.5000	-22.2400	-38.0400	-14.0000	24.0400
-98.0000	-20.9300	-36.7300	-14.0000	22.7300
-97.5000	-24.0700	-39.8700	-14.0000	25.8700
-97.0000	-22.9700	-38.7700	-14.0000	24.7700
-96.5000	-22.8800	-38.6800	-14.0000	24.6800
-96.0000	-16.8200	-32.6200	-14.0000	18.6200
-95.5000	-14.7600	-30.5600	-14.0000	16.5600
-95.0000	-14.3000	-30.1000	-14.0000	16.1000
-94.5000	-11.0700	-26.8700	-14.0000	12.8700
-94.0000	-11.9200	-27.7200	-14.0000	13.7200
-93.5000	-12.1800	-27.9800	-14.0000	13.9800
-93.0000	-10.8400	-26.6400	-14.0000	12.6400
-92.5000	-11.7100	-27.5100	-14.0000	13.5100
-92.0000	-13.3600	-29.1600	-14.0000	15.1600
-91.5000	-14.2600	-30.0600	-14.0000	16.0600
-91.0000	-15.6900	-31.4900	-14.0000	17.4900
-90.5000	-16.3500	-32.1500	-14.0000	18.1500
-90.0000	-17.0800	-32.8800	-14.0000	18.8800
-89.5000	-15.8800	-31.6800	-14.0000	17.6800
-89.0000	-15.1400	-30.9400	-14.0000	16.9400
-88.5000	-11.3300	-27.1300	-14.0000	13.1300
-88.0000	-11.7300	-27.5300	-14.0000	13.5300
-87.5000	-11.1000	-26.9000	-14.0000	12.9000

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-87.0000	-9.6900	-25.4900	-14.0000	11.4900
-86.5000	-12.7500	-28.5500	-14.0000	14.5500
-86.0000	-12.7600	-28.5600	-14.0000	14.5600
-85.5000	-12.4900	-28.2900	-14.0000	14.2900
-85.0000	-19.0600	-34.8600	-14.0000	20.8600
-84.5000	-15.6300	-31.4300	-24.0000	7.4300
-84.0000	-14.7400	-30.5400	-24.0000	6.5400
-83.5000	-14.5700	-30.3700	-24.0000	6.3700
-83.0000	-14.2900	-30.0900	-24.0000	6.0900
-82.5000	-15.9700	-31.7700	-24.0000	7.7700
-82.0000	-11.9600	-27.7600	-24.0000	3.7600
-81.5000	-15.6500	-31.4500	-24.0000	7.4500
-81.0000	-15.6600	-31.4600	-24.0000	7.4600
-80.5000	-14.8000	-30.6000	-24.0000	6.6000
-80.0000	-16.8700	-32.6700	-24.0000	8.6700
-79.5000	-17.0700	-32.8700	-24.0000	8.8700
-79.0000	-18.3000	-34.1000	-24.0000	10.1000
-78.5000	-18.9400	-34.7400	-24.0000	10.7400
-78.0000	-17.6700	-33.4700	-24.0000	9.4700
-77.5000	-20.3700	-36.1700	-24.0000	12.1700
-77.0000	-16.7300	-32.5300	-24.0000	8.5300
-76.5000	-10.6300	-26.4300	-24.0000	2.4300
-76.0000	-15.5200	-31.3200	-24.0000	7.3200
-75.5000	-13.2300	-29.0300	-24.0000	5.0300
-75.0000	-15.6500	-31.4500	-24.0000	7.4500
-74.5000	-16.9100	-32.7100	-24.0000	8.7100
-74.0000	-21.7200	-37.5200	-24.0000	13.5200
-73.5000	-15.5600	-31.3600	-24.0000	7.3600
-73.0000	-16.4400	-32.2400	-24.0000	8.2400
-72.5000	-23.5300	-39.3300	-24.0000	15.3300
-72.0000	-14.6900	-30.4900	-24.0000	6.4900
-71.5000	-21.2200	-37.0200	-24.0000	13.0200
-71.0000	-23.8500	-39.6500	-24.0000	15.6500
-70.5000	-15.1200	-30.9200	-24.0000	6.9200
-70.0000	-17.7800	-33.5800	-24.0000	9.5800
-69.5000	-15.6600	-31.4600	-24.0000	7.4600
-69.0000	-18.3600	-34.1600	-24.0000	10.1600
-68.5000	-16.8000	-32.6000	-24.0000	8.6000
-68.0000	-12.8300	-28.6300	-24.0000	4.6300
-67.5000	-16.6200	-32.4200	-24.0000	8.4200
-67.0000	-19.0400	-34.8400	-24.0000	10.8400
-66.5000	-23.6600	-39.4600	-24.0000	15.4600
-66.0000	-20.3200	-36.1200	-24.0000	12.1200
-65.5000	-20.1200	-35.9200	-24.0000	11.9200
-65.0000	-18.0000	-33.8000	-24.0000	9.8000
-64.5000	-13.6500	-29.4500	-24.0000	5.4500
-64.0000	-14.9400	-30.7400	-24.0000	6.7400
-63.5000	-20.0500	-35.8500	-24.0000	11.8500
-63.0000	-27.3200	-43.1200	-24.0000	19.1200
-62.5000	-22.9700	-38.7700	-24.0000	14.7700
-62.0000	-23.4600	-39.2600	-24.0000	15.2600
-61.5000	-24.4900	-40.2900	-24.0000	16.2900
-61.0000	-25.7900	-41.5900	-24.0000	17.5900
-60.5000	-23.7100	-39.5100	-24.0000	15.5100
-60.0000	-20.2400	-36.0400	-24.0000	12.0400
-59.5000	-18.4200	-34.2200	-24.0000	10.2200
-59.0000	-15.8000	-31.6000	-24.0000	7.6000
-58.5000	-17.0800	-32.8800	-24.0000	8.8800
-58.0000	-16.4500	-32.2500	-24.0000	8.2500
-57.5000	-18.6500	-34.4500	-24.0000	10.4500
-57.0000	-17.9100	-33.7100	-24.0000	9.7100
-56.5000	-16.1700	-31.9700	-24.0000	7.9700
-56.0000	-17.6000	-33.4000	-24.0000	9.4000

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-55.5000	-17.8600	-33.6600	-24.0000	9.6600
-55.0000	-19.0600	-34.8600	-24.0000	10.8600
-54.5000	-20.0300	-35.8300	-24.0000	11.8300
-54.0000	-23.8500	-39.6500	-24.0000	15.6500
-53.5000	-21.0500	-36.8500	-24.0000	12.8500
-53.0000	-19.2100	-35.0100	-24.0000	11.0100
-52.5000	-17.1100	-32.9100	-24.0000	8.9100
-52.0000	-16.8600	-32.6600	-24.0000	8.6600
-51.5000	-13.7400	-29.5400	-24.0000	5.5400
-51.0000	-14.3400	-30.1400	-24.0000	6.1400
-50.5000	-17.0000	-32.8000	-24.0000	8.8000
-50.0000	-32.1000	-47.9000	-24.0000	23.9000
-49.5000	-23.2900	-39.0900	-24.0000	15.0900
-49.0000	-21.2400	-37.0400	-24.0000	13.0400
-48.5000	-23.1100	-38.9100	-24.0000	14.9100
-48.0000	-16.6700	-32.4700	-24.0000	8.4700
-47.5000	-14.5300	-30.3300	-23.9173	6.4127
-47.0000	-15.8100	-31.6100	-23.8024	7.8076
-46.5000	-19.2500	-35.0500	-23.6863	11.3637
-46.0000	-19.3300	-35.1300	-23.5689	11.5611
-45.5000	-16.7600	-32.5600	-23.4503	9.1097
-45.0000	-16.4700	-32.2700	-23.3303	8.9397
-44.5000	-14.9200	-30.7200	-23.2090	7.5110
-44.0000	-21.4700	-37.2700	-23.0863	14.1837
-43.5000	-21.7800	-37.5800	-22.9622	14.6178
-43.0000	-22.7900	-38.5900	-22.8367	15.7533
-42.5000	-22.0100	-37.8100	-22.7097	15.1003
-42.0000	-18.0000	-33.8000	-22.5812	11.2188
-41.5000	-15.4100	-31.2100	-22.4512	8.7588
-41.0000	-14.1200	-29.9200	-22.3196	7.6004
-40.5000	-20.4500	-36.2500	-22.1864	14.0636
-40.0000	-25.9200	-41.7200	-22.0515	19.6685
-39.5000	-21.2000	-37.0000	-21.9149	15.0851
-39.0000	-15.6700	-31.4700	-21.7766	9.6934
-38.5000	-14.7500	-30.5500	-21.6365	8.9135
-38.0000	-19.8600	-35.6600	-21.4946	14.1654
-37.5000	-27.7900	-43.5900	-21.3508	22.2392
-37.0000	-22.4300	-38.2300	-21.2050	17.0250
-36.5000	-22.3500	-38.1500	-21.0573	17.0927
-36.0000	-20.2000	-36.0000	-20.9076	15.0924
-35.5000	-14.1900	-29.9900	-20.7557	9.2343
-35.0000	-13.3400	-29.1400	-20.6017	8.5383
-34.5000	-16.9900	-32.7900	-20.4455	12.3445
-34.0000	-19.2800	-35.0800	-20.2870	14.7930
-33.5000	-12.6700	-28.4700	-20.1261	8.3439
-33.0000	-11.4700	-27.2700	-19.9628	7.3072
-32.5000	-12.7400	-28.5400	-19.7971	8.7429
-32.0000	-15.8000	-31.6000	-19.6287	11.9713
-31.5000	-19.4100	-35.2100	-19.4578	15.7522
-31.0000	-15.9600	-31.7600	-19.2840	12.4760
-30.5000	-14.6500	-30.4500	-19.1075	11.3425
-30.0000	-12.1200	-27.9200	-18.9280	8.9920
-29.5000	-10.7000	-26.5000	-18.7456	7.7544
-29.0000	-11.6700	-27.4700	-18.5599	8.9101
-28.5000	-10.6500	-26.4500	-18.3711	8.0789
-28.0000	-9.0400	-24.8400	-18.1790	6.6610
-27.5000	-10.3900	-26.1900	-17.9833	8.2067
-27.0000	-18.2200	-34.0200	-17.7841	16.2359
-26.5000	-28.8600	-44.6600	-17.5811	27.0789
-26.0000	-13.1900	-28.9900	-17.3743	11.6157
-25.5000	-8.7300	-24.5300	-17.1635	7.3665
-25.0000	-8.6900	-24.4900	-16.9485	7.5415
-24.5000	-12.5500	-28.3500	-16.7292	11.6208

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-24.0000	-12.9300	-28.7300	-16.5053	12.2247
-23.5000	-7.5300	-23.3300	-16.2767	7.0533
-23.0000	-5.4900	-21.2900	-16.0432	5.2468
-22.5000	-7.1800	-22.9800	-15.8046	7.1754
-22.0000	-11.7900	-27.5900	-15.5606	12.0294
-21.5000	-15.0100	-30.8100	-15.3110	15.4990
-21.0000	-10.7600	-26.5600	-15.0555	11.5045
-20.5000	-8.8000	-24.6000	-14.7938	9.8062
-20.0000	-12.6500	-28.4500	-14.5257	13.9243
-19.5000	-14.2700	-30.0700	-14.2509	15.8191
-19.0000	-12.1300	-27.9300	-13.9688	13.9612
-18.5000	-16.9200	-32.7200	-13.6793	19.0407
-18.0000	-4.9000	-20.7000	-13.3818	7.3182
-17.5000	-2.6100	-18.4100	-13.0760	5.3340
-17.0000	-6.3200	-22.1200	-12.7612	9.3588
-16.5000	-12.9300	-28.7300	-12.4371	16.2929
-16.0000	-8.9900	-24.7900	-12.1030	12.6870
-15.5000	-4.3100	-20.1100	-11.7583	8.3517
-15.0000	-3.5600	-19.3600	-11.4023	7.9577
-14.5000	-1.1600	-16.9600	-11.0342	5.9258
-14.0000	2.2900	-13.5100	-10.6532	2.8568
-13.5000	1.5900	-14.2100	-10.2583	3.9517
-13.0000	-1.1800	-16.9800	-9.8486	7.1314
-12.5000	-1.5300	-17.3300	-9.4228	7.9072
-12.0000	-2.2900	-18.0900	-8.9795	9.1105
-11.5000	0.6100	-15.1900	-8.5174	6.6726
-11.0000	-1.0800	-16.8800	-8.0348	8.8452
-10.5000	-18.7500	-34.5500	-7.5297	27.0203
-10.0000	-1.8100	-17.6100	-7.0000	10.6100
-9.5000	-1.3500	-17.1500	-6.4431	10.7069
-9.0000	3.9900	-11.8100	-6.0000	5.8100
-8.5000	6.4900	-9.3100	-6.0000	3.3100
-8.0000	2.7300	-13.0700	-6.0000	7.0700
-7.5000	-12.6300	-28.4300	-6.0000	22.4300
-7.0000	-1.3300	-17.1300	-6.0000	11.1300
-6.5000	3.9300	-11.8700	-5.3228	6.5472
-6.0000	8.7700	-7.0300	-4.4538	2.5762
-5.5000	10.9600	-4.8400	-3.5091	1.3309
-5.0000	11.7900	-4.0100	-2.4743	1.5357
-4.5000	11.8600	-3.9400	-1.3303	2.6097
-4.0000	9.8500	-5.9500	-0.0515	5.8985
-3.5000	9.1200	-6.6800	1.3983	8.0783
-3.0000	15.0400	-0.7600	3.0720	3.8320
-2.5000	19.3400	3.5400	5.0515	1.5115
-2.0000	13.5200	-2.2800	7.4743	9.7543
-1.5000	26.1100	10.3100	10.5977	0.2877
-1.0000	35.7900	19.9900	NaN	NaN
-0.5000	40.3000	24.5000	NaN	NaN
0	41.5900	25.7900	NaN	NaN
0.5000	40.1800	24.3800	NaN	NaN
1.0000	35.6600	19.8600	NaN	NaN
1.5000	25.9900	10.1900	10.5977	0.4077
2.0000	15.0300	-0.7700	7.4743	8.2443
2.5000	19.3800	3.5800	5.0515	1.4715
3.0000	12.7500	-3.0500	3.0720	6.1220
3.5000	3.2600	-12.5400	1.3983	13.9383
4.0000	10.1200	-5.6800	-0.0515	5.6285
4.5000	10.9500	-4.8500	-1.3303	3.5197
5.0000	7.8600	-7.9400	-2.4743	5.4657
5.5000	0.3200	-15.4800	-3.5091	11.9709
6.0000	5.7600	-10.0400	-4.4538	5.5862
6.5000	8.6500	-7.1500	-5.3228	1.8272
7.0000	5.5300	-10.2700	-6.0000	4.2700

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7.5000	-24.9700	-40.7700	-6.0000	34.7700
8.0000	4.1400	-11.6600	-6.0000	5.6600
8.5000	6.2400	-9.5600	-6.0000	3.5600
9.0000	5.5700	-10.2300	-6.0000	4.2300
9.5000	5.9500	-9.8500	-6.4431	3.4069
10.0000	4.4700	-11.3300	-7.0000	4.3300
10.5000	0.0400	-15.7600	-7.5297	8.2303
11.0000	-1.7700	-17.5700	-8.0348	9.5352
11.5000	-6.4000	-22.2000	-8.5174	13.6826
12.0000	-5.1600	-20.9600	-8.9795	11.9805
12.5000	-1.2700	-17.0700	-9.4228	7.6472
13.0000	-3.2200	-19.0200	-9.8486	9.1714
13.5000	-4.9000	-20.7000	-10.2583	10.4417
14.0000	-8.2600	-24.0600	-10.6532	13.4068
14.5000	-16.0200	-31.8200	-11.0342	20.7858
15.0000	-13.1500	-28.9500	-11.4023	17.5477
15.5000	-12.8400	-28.6400	-11.7583	16.8817
16.0000	-5.1500	-20.9500	-12.1030	8.8470
16.5000	-6.4900	-22.2900	-12.4371	9.8529
17.0000	-11.0900	-26.8900	-12.7612	14.1288
17.5000	-6.1600	-21.9600	-13.0760	8.8840
18.0000	-8.7300	-24.5300	-13.3818	11.1482
18.5000	-20.0400	-35.8400	-13.6793	22.1607
19.0000	-8.5500	-24.3500	-13.9688	10.3812
19.5000	-8.4900	-24.2900	-14.2509	10.0391
20.0000	-12.2800	-28.0800	-14.5257	13.5543
20.5000	-8.9200	-24.7200	-14.7938	9.9262
21.0000	-8.9800	-24.7800	-15.0555	9.7245
21.5000	-17.4800	-33.2800	-15.3110	17.9690
22.0000	-17.2500	-33.0500	-15.5606	17.4894
22.5000	-16.9700	-32.7700	-15.8046	16.9654
23.0000	-24.6700	-40.4700	-16.0432	24.4268
23.5000	-13.0200	-28.8200	-16.2767	12.5433
24.0000	-12.9100	-28.7100	-16.5053	12.2047
24.5000	-13.4200	-29.2200	-16.7292	12.4908
25.0000	-10.0100	-25.8100	-16.9485	8.8615
25.5000	-10.2300	-26.0300	-17.1635	8.8665
26.0000	-14.9100	-30.7100	-17.3743	13.3357
26.5000	-15.4200	-31.2200	-17.5811	13.6389
27.0000	-18.1800	-33.9800	-17.7841	16.1959
27.5000	-14.9900	-30.7900	-17.9833	12.8067
28.0000	-9.8600	-25.6600	-18.1790	7.4810
28.5000	-11.1000	-26.9000	-18.3711	8.5289
29.0000	-17.2100	-33.0100	-18.5599	14.4501
29.5000	-15.0800	-30.8800	-18.7456	12.1344
30.0000	-17.4800	-33.2800	-18.9280	14.3520
30.5000	-22.0700	-37.8700	-19.1075	18.7625
31.0000	-17.9200	-33.7200	-19.2840	14.4360
31.5000	-18.1400	-33.9400	-19.4578	14.4822
32.0000	-24.9500	-40.7500	-19.6287	21.1213
32.5000	-21.7400	-37.5400	-19.7971	17.7429
33.0000	-13.1500	-28.9500	-19.9628	8.9872
33.5000	-12.4600	-28.2600	-20.1261	8.1339
34.0000	-18.3800	-34.1800	-20.2870	13.8930
34.5000	-22.0200	-37.8200	-20.4455	17.3745
35.0000	-18.7900	-34.5900	-20.6017	13.9883
35.5000	-21.7300	-37.5300	-20.7557	16.7743
36.0000	-19.2800	-35.0800	-20.9076	14.1724
36.5000	-18.1400	-33.9400	-21.0573	12.8827
37.0000	-17.7500	-33.5500	-21.2050	12.3450
37.5000	-19.3800	-35.1800	-21.3508	13.8292
38.0000	-15.5600	-31.3600	-21.4946	9.8654
38.5000	-11.5700	-27.3700	-21.6365	5.7335

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39.0000	-11.7800	-27.5800	-21.7766	5.8034
39.5000	-16.4700	-32.2700	-21.9149	10.3551
40.0000	-22.6300	-38.4300	-22.0515	16.3785
40.5000	-24.1100	-39.9100	-22.1864	17.7236
41.0000	-21.1700	-36.9700	-22.3196	14.6504
41.5000	-18.2300	-34.0300	-22.4512	11.5788
42.0000	-21.5500	-37.3500	-22.5812	14.7688
42.5000	-26.1300	-41.9300	-22.7097	19.2203
43.0000	-18.4300	-34.2300	-22.8367	11.3933
43.5000	-19.7700	-35.5700	-22.9622	12.6078
44.0000	-31.9600	-47.7600	-23.0863	24.6737
44.5000	-19.8800	-35.6800	-23.2090	12.4710
45.0000	-16.8500	-32.6500	-23.3303	9.3197
45.5000	-20.3800	-36.1800	-23.4503	12.7297
46.0000	-21.7000	-37.5000	-23.5689	13.9311
46.5000	-27.8100	-43.6100	-23.6863	19.9237
47.0000	-27.3800	-43.1800	-23.8024	19.3776
47.5000	-21.4400	-37.2400	-23.9173	13.3227
48.0000	-17.2400	-33.0400	-24.0000	9.0400
48.5000	-22.9300	-38.7300	-24.0000	14.7300
49.0000	-23.3800	-39.1800	-24.0000	15.1800
49.5000	-18.6300	-34.4300	-24.0000	10.4300
50.0000	-22.9000	-38.7000	-24.0000	14.7000
50.5000	-22.7600	-38.5600	-24.0000	14.5600
51.0000	-13.9500	-29.7500	-24.0000	5.7500
51.5000	-11.1000	-26.9000	-24.0000	2.9000
52.0000	-13.6600	-29.4600	-24.0000	5.4600
52.5000	-18.8300	-34.6300	-24.0000	10.6300
53.0000	-24.1300	-39.9300	-24.0000	15.9300
53.5000	-24.5800	-40.3800	-24.0000	16.3800
54.0000	-29.5400	-45.3400	-24.0000	21.3400
54.5000	-26.3500	-42.1500	-24.0000	18.1500
55.0000	-17.9800	-33.7800	-24.0000	9.7800
55.5000	-17.6200	-33.4200	-24.0000	9.4200
56.0000	-16.7100	-32.5100	-24.0000	8.5100
56.5000	-18.6300	-34.4300	-24.0000	10.4300
57.0000	-19.5200	-35.3200	-24.0000	11.3200
57.5000	-25.4000	-41.2000	-24.0000	17.2000
58.0000	-25.0600	-40.8600	-24.0000	16.8600
58.5000	-24.2700	-40.0700	-24.0000	16.0700
59.0000	-24.4600	-40.2600	-24.0000	16.2600
59.5000	-18.7300	-34.5300	-24.0000	10.5300
60.0000	-16.7800	-32.5800	-24.0000	8.5800
60.5000	-18.4800	-34.2800	-24.0000	10.2800
61.0000	-19.6200	-35.4200	-24.0000	11.4200
61.5000	-23.6900	-39.4900	-24.0000	15.4900
62.0000	-23.4100	-39.2100	-24.0000	15.2100
62.5000	-17.2100	-33.0100	-24.0000	9.0100
63.0000	-14.3300	-30.1300	-24.0000	6.1300
63.5000	-15.3700	-31.1700	-24.0000	7.1700
64.0000	-15.5300	-31.3300	-24.0000	7.3300
64.5000	-15.2400	-31.0400	-24.0000	7.0400
65.0000	-15.5900	-31.3900	-24.0000	7.3900
65.5000	-16.2700	-32.0700	-24.0000	8.0700
66.0000	-29.4300	-45.2300	-24.0000	21.2300
66.5000	-25.7100	-41.5100	-24.0000	17.5100
67.0000	-18.2800	-34.0800	-24.0000	10.0800
67.5000	-16.6200	-32.4200	-24.0000	8.4200
68.0000	-14.1700	-29.9700	-24.0000	5.9700
68.5000	-11.1500	-26.9500	-24.0000	2.9500
69.0000	-11.2000	-27.0000	-24.0000	3.0000
69.5000	-15.3600	-31.1600	-24.0000	7.1600
70.0000	-26.1300	-41.9300	-24.0000	17.9300

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70.5000	-33.7000	-49.5000	-24.0000	25.5000
71.0000	-23.3500	-39.1500	-24.0000	15.1500
71.5000	-22.0600	-37.8600	-24.0000	13.8600
72.0000	-25.7200	-41.5200	-24.0000	17.5200
72.5000	-19.7300	-35.5300	-24.0000	11.5300
73.0000	-21.4100	-37.2100	-24.0000	13.2100
73.5000	-19.1100	-34.9100	-24.0000	10.9100
74.0000	-23.9200	-39.7200	-24.0000	15.7200
74.5000	-16.8000	-32.6000	-24.0000	8.6000
75.0000	-14.5100	-30.3100	-24.0000	6.3100
75.5000	-12.7800	-28.5800	-24.0000	4.5800
76.0000	-13.6100	-29.4100	-24.0000	5.4100
76.5000	-14.1800	-29.9800	-24.0000	5.9800
77.0000	-12.5900	-28.3900	-24.0000	4.3900
77.5000	-13.8200	-29.6200	-24.0000	5.6200
78.0000	-19.0800	-34.8800	-24.0000	10.8800
78.5000	-27.8300	-43.6300	-24.0000	19.6300
79.0000	-23.8400	-39.6400	-24.0000	15.6400
79.5000	-23.2700	-39.0700	-24.0000	15.0700
80.0000	-26.4300	-42.2300	-24.0000	18.2300
80.5000	-20.4700	-36.2700	-24.0000	12.2700
81.0000	-14.4800	-30.2800	-24.0000	6.2800
81.5000	-15.1300	-30.9300	-24.0000	6.9300
82.0000	-12.2200	-28.0200	-24.0000	4.0200
82.5000	-11.3100	-27.1100	-24.0000	3.1100
83.0000	-9.7100	-25.5100	-24.0000	1.5100
83.5000	-10.7000	-26.5000	-24.0000	2.5000
84.0000	-11.7300	-27.5300	-24.0000	3.5300
84.5000	-12.0300	-27.8300	-24.0000	3.8300
85.0000	-13.4200	-29.2200	-14.0000	15.2200
85.5000	-14.1000	-29.9000	-14.0000	15.9000
86.0000	-14.0900	-29.8900	-14.0000	15.8900
86.5000	-10.9000	-26.7000	-14.0000	12.7000
87.0000	-8.8600	-24.6600	-14.0000	10.6600
87.5000	-9.4500	-25.2500	-14.0000	11.2500
88.0000	-9.9700	-25.7700	-14.0000	11.7700
88.5000	-8.8300	-24.6300	-14.0000	10.6300
89.0000	-8.7500	-24.5500	-14.0000	10.5500
89.5000	-10.9100	-26.7100	-14.0000	12.7100
90.0000	-10.7700	-26.5700	-14.0000	12.5700
90.5000	-11.4500	-27.2500	-14.0000	13.2500
91.0000	-17.5100	-33.3100	-14.0000	19.3100
91.5000	-31.8700	-47.6700	-14.0000	33.6700
92.0000	-31.0600	-46.8600	-14.0000	32.8600
92.5000	-17.7700	-33.5700	-14.0000	19.5700
93.0000	-12.4100	-28.2100	-14.0000	14.2100
93.5000	-12.0600	-27.8600	-14.0000	13.8600
94.0000	-11.5400	-27.3400	-14.0000	13.3400
94.5000	-9.8700	-25.6700	-14.0000	11.6700
95.0000	-10.6500	-26.4500	-14.0000	12.4500
95.5000	-11.0200	-26.8200	-14.0000	12.8200
96.0000	-11.5300	-27.3300	-14.0000	13.3300
96.5000	-12.8400	-28.6400	-14.0000	14.6400
97.0000	-14.7100	-30.5100	-14.0000	16.5100
97.5000	-14.2400	-30.0400	-14.0000	16.0400
98.0000	-14.9600	-30.7600	-14.0000	16.7600
98.5000	-16.2400	-32.0400	-14.0000	18.0400
99.0000	-16.5800	-32.3800	-14.0000	18.3800
99.5000	-17.6200	-33.4200	-14.0000	19.4200
100.0000	-18.1500	-33.9500	-14.0000	19.9500
100.5000	-18.1100	-33.9100	-14.0000	19.9100
101.0000	-18.1600	-33.9600	-14.0000	19.9600
101.5000	-19.4600	-35.2600	-14.0000	21.2600

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102.0000	-17.0200	-32.8200	-14.0000	18.8200
102.5000	-15.7900	-31.5900	-14.0000	17.5900
103.0000	-15.2100	-31.0100	-14.0000	17.0100
103.5000	-15.5400	-31.3400	-14.0000	17.3400
104.0000	-15.9500	-31.7500	-14.0000	17.7500
104.5000	-14.5000	-30.3000	-14.0000	16.3000
105.0000	-14.4900	-30.2900	-14.0000	16.2900
105.5000	-15.6700	-31.4700	-14.0000	17.4700
106.0000	-16.6500	-32.4500	-14.0000	18.4500
106.5000	-18.1600	-33.9600	-14.0000	19.9600
107.0000	-18.7600	-34.5600	-14.0000	20.5600
107.5000	-19.3700	-35.1700	-14.0000	21.1700
108.0000	-21.0300	-36.8300	-14.0000	22.8300
108.5000	-21.0700	-36.8700	-14.0000	22.8700
109.0000	-21.1600	-36.9600	-14.0000	22.9600
109.5000	-22.7900	-38.5900	-14.0000	24.5900
110.0000	-21.6100	-37.4100	-14.0000	23.4100
110.5000	-20.2200	-36.0200	-14.0000	22.0200
111.0000	-24.9400	-40.7400	-14.0000	26.7400
111.5000	-29.2000	-45.0000	-14.0000	31.0000
112.0000	-22.6800	-38.4800	-14.0000	24.4800
112.5000	-23.8000	-39.6000	-14.0000	25.6000
113.0000	-29.1200	-44.9200	-14.0000	30.9200
113.5000	-29.1500	-44.9500	-14.0000	30.9500
114.0000	-26.7300	-42.5300	-14.0000	28.5300
114.5000	-26.2300	-42.0300	-14.0000	28.0300
115.0000	-28.7300	-44.5300	-14.0000	30.5300
115.5000	-27.1700	-42.9700	-14.0000	28.9700
116.0000	-31.4900	-47.2900	-14.0000	33.2900
116.5000	-27.8000	-43.6000	-14.0000	29.6000
117.0000	-30.1800	-45.9800	-14.0000	31.9800
117.5000	-35.0100	-50.8100	-14.0000	36.8100
118.0000	-36.5400	-52.3400	-14.0000	38.3400
118.5000	-38.5500	-54.3500	-14.0000	40.3500
119.0000	-30.9300	-46.7300	-14.0000	32.7300
119.5000	-34.2700	-50.0700	-14.0000	36.0700
120.0000	-34.7300	-50.5300	-14.0000	36.5300
120.5000	-35.3200	-51.1200	-14.0000	37.1200
121.0000	-29.4000	-45.2000	-14.0000	31.2000
121.5000	-24.7500	-40.5500	-14.0000	26.5500
122.0000	-27.2000	-43.0000	-14.0000	29.0000
122.5000	-35.0600	-50.8600	-14.0000	36.8600
123.0000	-27.3100	-43.1100	-14.0000	29.1100
123.5000	-25.2700	-41.0700	-14.0000	27.0700
124.0000	-26.6800	-42.4800	-14.0000	28.4800
124.5000	-31.4300	-47.2300	-14.0000	33.2300
125.0000	-35.1700	-50.9700	-14.0000	36.9700
125.5000	-25.0000	-40.8000	-14.0000	26.8000
126.0000	-23.3900	-39.1900	-14.0000	25.1900
126.5000	-25.3400	-41.1400	-14.0000	27.1400
127.0000	-34.3300	-50.1300	-14.0000	36.1300
127.5000	-27.8800	-43.6800	-14.0000	29.6800
128.0000	-27.0300	-42.8300	-14.0000	28.8300
128.5000	-29.4600	-45.2600	-14.0000	31.2600
129.0000	-31.9600	-47.7600	-14.0000	33.7600
129.5000	-33.0200	-48.8200	-14.0000	34.8200
130.0000	-40.1900	-55.9900	-14.0000	41.9900
130.5000	-31.7500	-47.5500	-14.0000	33.5500
131.0000	-28.4100	-44.2100	-14.0000	30.2100
131.5000	-31.3300	-47.1300	-14.0000	33.1300
132.0000	-27.0600	-42.8600	-14.0000	28.8600
132.5000	-25.2700	-41.0700	-14.0000	27.0700
133.0000	-27.1800	-42.9800	-14.0000	28.9800

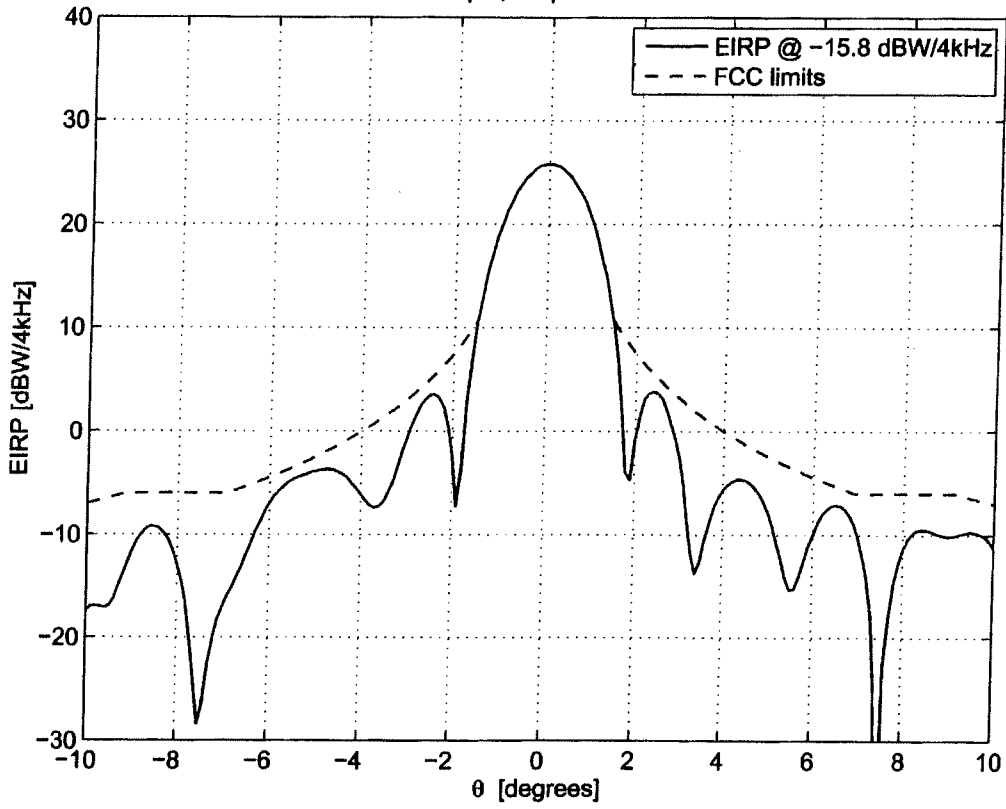
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133.5000	-28.2000	-44.0000	-14.0000	30.0000
134.0000	-33.4400	-49.2400	-14.0000	35.2400
134.5000	-30.2700	-46.0700	-14.0000	32.0700
135.0000	-25.2200	-41.0200	-14.0000	27.0200
135.5000	-31.7200	-47.5200	-14.0000	33.5200
136.0000	-38.5700	-54.3700	-14.0000	40.3700
136.5000	-34.6700	-50.4700	-14.0000	36.4700
137.0000	-25.4000	-41.2000	-14.0000	27.2000
137.5000	-30.4900	-46.2900	-14.0000	32.2900
138.0000	-32.5800	-48.3800	-14.0000	34.3800
138.5000	-34.9600	-50.7600	-14.0000	36.7600
139.0000	-32.6200	-48.4200	-14.0000	34.4200
139.5000	-30.3700	-46.1700	-14.0000	32.1700
140.0000	-32.8600	-48.6600	-14.0000	34.6600
140.5000	-41.2100	-57.0100	-14.0000	43.0100
141.0000	-39.6800	-55.4800	-14.0000	41.4800
141.5000	-32.8700	-48.6700	-14.0000	34.6700
142.0000	-32.5200	-48.3200	-14.0000	34.3200
142.5000	-29.1000	-44.9000	-14.0000	30.9000
143.0000	-38.5700	-54.3700	-14.0000	40.3700
143.5000	-47.8600	-63.6600	-14.0000	49.6600
144.0000	-35.2400	-51.0400	-14.0000	37.0400
144.5000	-37.2400	-53.0400	-14.0000	39.0400
145.0000	-42.4500	-58.2500	-14.0000	44.2500
145.5000	-34.0900	-49.8900	-14.0000	35.8900
146.0000	-36.1600	-51.9600	-14.0000	37.9600
146.5000	-39.3500	-55.1500	-14.0000	41.1500
147.0000	-32.0000	-47.8000	-14.0000	33.8000
147.5000	-24.9500	-40.7500	-14.0000	26.7500
148.0000	-29.5700	-45.3700	-14.0000	31.3700
148.5000	-26.4300	-42.2300	-14.0000	28.2300
149.0000	-25.9700	-41.7700	-14.0000	27.7700
149.5000	-30.6600	-46.4600	-14.0000	32.4600
150.0000	-35.5300	-51.3300	-14.0000	37.3300
150.5000	-50.8900	-66.6900	-14.0000	52.6900
151.0000	-37.6500	-53.4500	-14.0000	39.4500
151.5000	-31.0500	-46.8500	-14.0000	32.8500
152.0000	-30.4000	-46.2000	-14.0000	32.2000
152.5000	-30.5300	-46.3300	-14.0000	32.3300
153.0000	-47.2000	-63.0000	-14.0000	49.0000
153.5000	-29.1300	-44.9300	-14.0000	30.9300
154.0000	-28.7100	-44.5100	-14.0000	30.5100
154.5000	-32.8800	-48.6800	-14.0000	34.6800
155.0000	-36.7800	-52.5800	-14.0000	38.5800
155.5000	-25.6600	-41.4600	-14.0000	27.4600
156.0000	-27.9300	-43.7300	-14.0000	29.7300
156.5000	-32.5700	-48.3700	-14.0000	34.3700
157.0000	-28.2000	-44.0000	-14.0000	30.0000
157.5000	-38.8200	-54.6200	-14.0000	40.6200
158.0000	-31.7800	-47.5800	-14.0000	33.5800
158.5000	-34.8100	-50.6100	-14.0000	36.6100
159.0000	-24.3500	-40.1500	-14.0000	26.1500
159.5000	-26.0300	-41.8300	-14.0000	27.8300
160.0000	-32.7700	-48.5700	-14.0000	34.5700
160.5000	-23.9200	-39.7200	-14.0000	25.7200
161.0000	-27.1900	-42.9900	-14.0000	28.9900
161.5000	-34.7800	-50.5800	-14.0000	36.5800
162.0000	-28.6300	-44.4300	-14.0000	30.4300
162.5000	-33.9600	-49.7600	-14.0000	35.7600
163.0000	-32.0600	-47.8600	-14.0000	33.8600
163.5000	-41.5300	-57.3300	-14.0000	43.3300
164.0000	-29.4900	-45.2900	-14.0000	31.2900
164.5000	-28.5600	-44.3600	-14.0000	30.3600

Sailor900_EIRPtable_Copol_th175_f1425.TXT

165.0000	-41.5700	-57.3700	-14.0000	43.3700
165.5000	-30.1400	-45.9400	-14.0000	31.9400
166.0000	-29.0600	-44.8600	-14.0000	30.8600
166.5000	-41.0800	-56.8800	-14.0000	42.8800
167.0000	-31.7000	-47.5000	-14.0000	33.5000
167.5000	-27.0200	-42.8200	-14.0000	28.8200
168.0000	-29.5600	-45.3600	-14.0000	31.3600
168.5000	-29.5200	-45.3200	-14.0000	31.3200
169.0000	-20.8300	-36.6300	-14.0000	22.6300
169.5000	-24.7500	-40.5500	-14.0000	26.5500
170.0000	-38.6800	-54.4800	-14.0000	40.4800
170.5000	-27.9800	-43.7800	-14.0000	29.7800
171.0000	-20.1700	-35.9700	-14.0000	21.9700
171.5000	-17.7800	-33.5800	-14.0000	19.5800
172.0000	-17.7500	-33.5500	-14.0000	19.5500
172.5000	-17.6200	-33.4200	-14.0000	19.4200
173.0000	-17.6600	-33.4600	-14.0000	19.4600
173.5000	-17.0500	-32.8500	-14.0000	18.8500
174.0000	-18.5000	-34.3000	-14.0000	20.3000
174.5000	-19.7900	-35.5900	-14.0000	21.5900
175.0000	-19.3200	-35.1200	-14.0000	21.1200

Co-pol, freq=14.25 GHz



Co-pol, freq=14.25 GHz

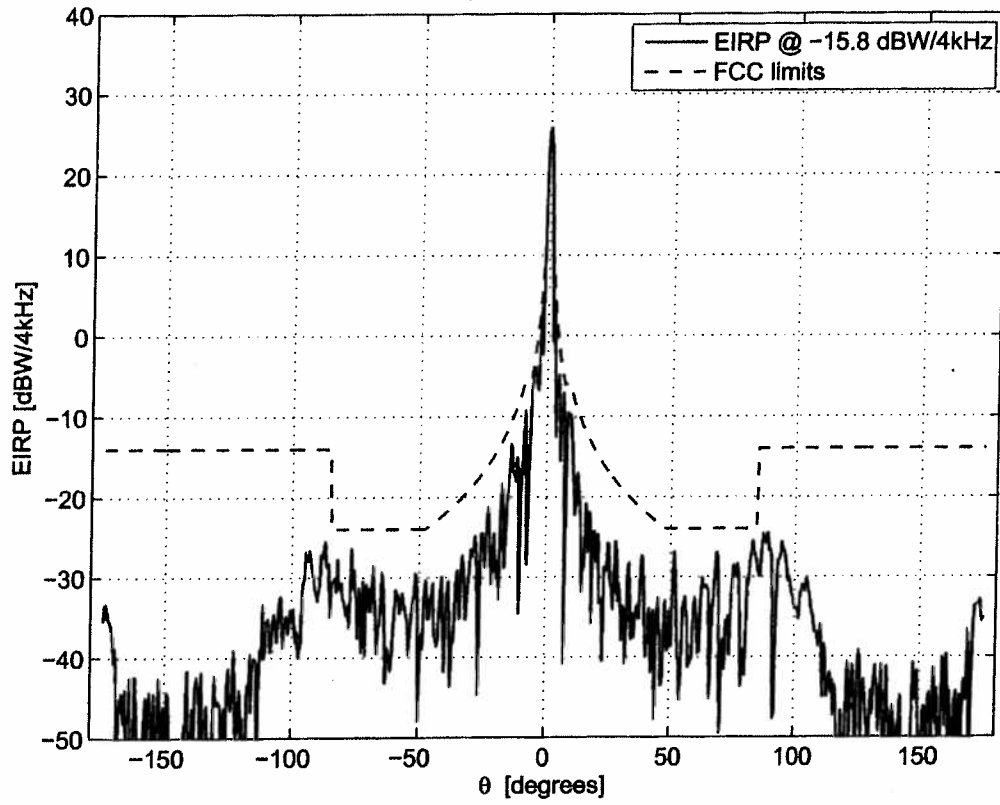


EXHIBIT 4

25.222(b)(1)(i)(C) Tables for the Thrane & Thrane Model

TT-7090A Sailor 900 1.0 Meter Ku-band Antennas

Sailor900_EIRPtable_Xpol_th10_f1425.TXT

Sailor 900 with Radome
 EIRP FCC-compliance
 Based on measurement at Eutelsat Test range in La Turbie, France

Polarization: X-pol
 Freq: 14.25 GHz
 Main beam co-pol. gain: 41.6 dBi
 Spectral Power density: -15.8 dB/4kHz

Theta	Gain	EIRP	FCC limit	FCC margin
-10.0000	-22.1400	-37.9400	NaN	NaN
-9.9000	-23.2700	-39.0700	NaN	NaN
-9.8000	-24.7500	-40.5500	NaN	NaN
-9.7000	-25.8200	-41.6200	NaN	NaN
-9.6000	-28.7300	-44.5300	NaN	NaN
-9.5000	-30.3100	-46.1100	NaN	NaN
-9.4000	-36.3100	-52.1100	NaN	NaN
-9.3000	-41.0600	-56.8600	NaN	NaN
-9.2000	-44.2600	-60.0600	NaN	NaN
-9.1000	-37.6400	-53.4400	-16.0000	37.4400
-9.0000	-34.3000	-50.1000	-16.0000	34.1000
-8.9000	-31.8500	-47.6500	-16.0000	31.6500
-8.8000	-29.1200	-44.9200	-16.0000	28.9200
-8.7000	-28.8400	-44.6400	-16.0000	28.6400
-8.6000	-27.6200	-43.4200	-16.0000	27.4200
-8.5000	-26.5400	-42.3400	-16.0000	26.3400
-8.4000	-26.5300	-42.3300	-16.0000	26.3300
-8.3000	-25.5100	-41.3100	-16.0000	25.3100
-8.2000	-24.3900	-40.1900	-16.0000	24.1900
-8.1000	-24.4300	-40.2300	-16.0000	24.2300
-8.0000	-24.1700	-39.9700	-16.0000	23.9700
-7.9000	-23.7800	-39.5800	-16.0000	23.5800
-7.8000	-23.8700	-39.6700	-16.0000	23.6700
-7.7000	-23.4600	-39.2600	-16.0000	23.2600
-7.6000	-23.2800	-39.0800	-16.0000	23.0800
-7.5000	-22.8400	-38.6400	-16.0000	22.6400
-7.4000	-22.8600	-38.6600	-16.0000	22.6600
-7.3000	-22.7900	-38.5900	-16.0000	22.5900
-7.2000	-22.7900	-38.5900	-16.0000	22.5900
-7.1000	-23.3000	-39.1000	-16.0000	23.1000
-7.0000	-23.8200	-39.6200	-16.0000	23.6200
-6.9000	-24.2000	-40.0000	-15.9712	24.0288
-6.8000	-25.4900	-41.2900	-15.8127	25.4773
-6.7000	-27.0300	-42.8300	-15.6519	27.1781
-6.6000	-29.2000	-45.0000	-15.4886	29.5114
-6.5000	-30.8600	-46.6600	-15.3228	31.3372
-6.4000	-32.2300	-48.0300	-15.1545	32.8755
-6.3000	-31.0300	-46.8300	-14.9835	31.8465
-6.2000	-29.7500	-45.5500	-14.8098	30.7402
-6.1000	-28.3400	-44.1400	-14.6332	29.5068
-6.0000	-27.1000	-42.9000	-14.4538	28.4462
-5.9000	-25.5800	-41.3800	-14.2713	27.1087
-5.8000	-24.3900	-40.1900	-14.0857	26.1043
-5.7000	-23.4100	-39.2100	-13.8969	25.3131
-5.6000	-21.7300	-37.5300	-13.7047	23.8253
-5.5000	-20.9300	-36.7300	-13.5091	23.2209
-5.4000	-19.4800	-35.2800	-13.3098	21.9702
-5.3000	-18.5900	-34.3900	-13.1069	21.2831
-5.2000	-17.5900	-33.3900	-12.9001	20.4899
-5.1000	-16.6000	-32.4000	-12.6893	19.7107

Sailor900_EIRPtable_xpol_th10_f1425.TXT

-5.0000	-15.7100	-31.5100	-12.4743	19.0357
-4.9000	-14.8500	-30.6500	-12.2549	18.3951
-4.8000	-14.2600	-30.0600	-12.0310	18.0290
-4.7000	-13.6100	-29.4100	-11.8024	17.6076
-4.6000	-12.9800	-28.7800	-11.5689	17.2111
-4.5000	-12.7100	-28.5100	-11.3303	17.1797
-4.4000	-12.4500	-28.2500	-11.0863	17.1637
-4.3000	-12.3900	-28.1900	-10.8367	17.3533
-4.2000	-12.3700	-28.1700	-10.5812	17.5888
-4.1000	-12.4100	-28.2100	-10.3196	17.8904
-4.0000	-12.5000	-28.3000	-10.0515	18.2485
-3.9000	-12.7700	-28.5700	-9.7766	18.7934
-3.8000	-13.0800	-28.8800	-9.4946	19.3854
-3.7000	-13.2400	-29.0400	-9.2050	19.8350
-3.6000	-13.4200	-29.2200	-8.9076	20.3124
-3.5000	-13.1800	-28.9800	-8.6017	20.3783
-3.4000	-12.7700	-28.5700	-8.2870	20.2830
-3.3000	-12.3300	-28.1300	-7.9628	20.1672
-3.2000	-11.3300	-27.1300	-7.6287	19.5013
-3.1000	-10.4900	-26.2900	-7.2840	19.0060
-3.0000	-9.2600	-25.0600	-6.9280	18.1320
-2.9000	-8.2300	-24.0300	-6.5599	17.4701
-2.8000	-7.2000	-23.0000	-6.1790	16.8210
-2.7000	-6.3500	-22.1500	-5.7841	16.3659
-2.6000	-5.4200	-21.2200	-5.3743	15.8457
-2.5000	-4.7100	-20.5100	-4.9485	15.5615
-2.4000	-3.8700	-19.6700	-4.5053	15.1647
-2.3000	-3.3500	-19.1500	-4.0432	15.1068
-2.2000	-2.6100	-18.4100	-3.5606	14.8494
-2.1000	-1.8900	-17.6900	-3.0555	14.6345
-2.0000	-1.3500	-17.1500	-2.5257	14.6243
-1.9000	-0.8900	-16.6900	-1.9688	14.7212
-1.8000	-0.2500	-16.0500	-1.3818	14.6682
-1.7000	0.4000	-15.4000	-0.7612	14.6388
-1.6000	0.8900	-14.9100	-0.1030	14.8070
-1.5000	1.4200	-14.3800	0.5977	14.9777
-1.4000	1.9800	-13.8200	NaN	NaN
-1.3000	2.3600	-13.4400	NaN	NaN
-1.2000	2.8100	-12.9900	NaN	NaN
-1.1000	3.1500	-12.6500	NaN	NaN
-1.0000	3.3900	-12.4100	NaN	NaN
-0.9000	3.5600	-12.2400	NaN	NaN
-0.8000	3.6800	-12.1200	NaN	NaN
-0.7000	3.7200	-12.0800	NaN	NaN
-0.6000	3.5900	-12.2100	NaN	NaN
-0.5000	3.3600	-12.4400	NaN	NaN
-0.4000	2.9200	-12.8800	NaN	NaN
-0.3000	2.4000	-13.4000	NaN	NaN
-0.2000	1.7300	-14.0700	NaN	NaN
-0.1000	0.9600	-14.8400	NaN	NaN
0	0.1500	-15.6500	NaN	NaN
0.1000	-0.9400	-16.7400	NaN	NaN
0.2000	-1.8100	-17.6100	NaN	NaN
0.3000	-3.1800	-18.9800	NaN	NaN
0.4000	-4.0500	-19.8500	NaN	NaN
0.5000	-5.5900	-21.3900	NaN	NaN
0.6000	-6.1800	-21.9800	NaN	NaN
0.7000	-6.0500	-21.8500	NaN	NaN
0.8000	-5.5000	-21.3000	NaN	NaN
0.9000	-4.0900	-19.8900	NaN	NaN
1.0000	-3.1100	-18.9100	NaN	NaN
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1.2000	-1.4400	-17.2400	NaN	NaN

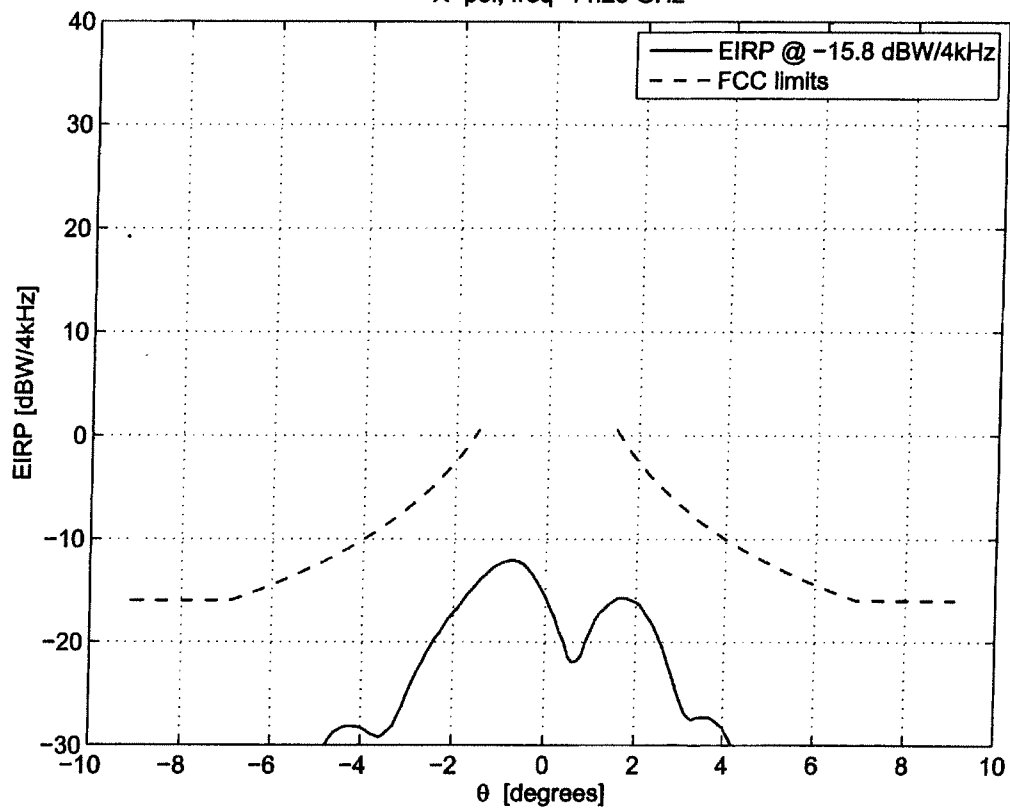
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1.5000	-0.2600	-16.0600	0.5977	16.6577
1.6000	0.0500	-15.7500	-0.1030	15.6470
1.7000	0.0400	-15.7600	-0.7612	14.9988
1.8000	0.0100	-15.7900	-1.3818	14.4082
1.9000	-0.1600	-15.9600	-1.9688	13.9912
2.0000	-0.3700	-16.1700	-2.5257	13.6443
2.1000	-0.6800	-16.4800	-3.0555	13.4245
2.2000	-1.4000	-17.2000	-3.5606	13.6394
2.3000	-1.9800	-17.7800	-4.0432	13.7368
2.4000	-2.7200	-18.5200	-4.5053	14.0147
2.5000	-3.7700	-19.5700	-4.9485	14.6215
2.6000	-4.7900	-20.5900	-5.3743	15.2157
2.7000	-6.0800	-21.8800	-5.7841	16.0959
2.8000	-7.2800	-23.0800	-6.1790	16.9010
2.9000	-8.6900	-24.4900	-6.5599	17.9301
3.0000	-9.9100	-25.7100	-6.9280	18.7820
3.1000	-11.0200	-26.8200	-7.2840	19.5360
3.2000	-11.5000	-27.3000	-7.6287	19.6713
3.3000	-11.7500	-27.5500	-7.9628	19.5872
3.4000	-11.5700	-27.3700	-8.2870	19.0830
3.5000	-11.5300	-27.3300	-8.6017	18.7283
3.6000	-11.5300	-27.3300	-8.9076	18.4224
3.7000	-11.5700	-27.3700	-9.2050	18.1650
3.8000	-11.8600	-27.6600	-9.4946	18.1654
3.9000	-12.1900	-27.9900	-9.7766	18.2134
4.0000	-12.5400	-28.3400	-10.0515	18.2885
4.1000	-13.3800	-29.1800	-10.3196	18.8604
4.2000	-14.2400	-30.0400	-10.5812	19.4588
4.3000	-15.7300	-31.5300	-10.8367	20.6933
4.4000	-16.8000	-32.6000	-11.0863	21.5137
4.5000	-18.6500	-34.4500	-11.3303	23.1197
4.6000	-20.0200	-35.8200	-11.5689	24.2511
4.7000	-21.4800	-37.2800	-11.8024	25.4776
4.8000	-21.5000	-37.3000	-12.0310	25.2690
4.9000	-21.0100	-36.8100	-12.2549	24.5551
5.0000	-20.3500	-36.1500	-12.4743	23.6757
5.1000	-19.5900	-35.3900	-12.6893	22.7007
5.2000	-19.0100	-34.8100	-12.9001	21.9099
5.3000	-18.4500	-34.2500	-13.1069	21.1431
5.4000	-18.0500	-33.8500	-13.3098	20.5402
5.5000	-17.6800	-33.4800	-13.5091	19.9709
5.6000	-17.7600	-33.5600	-13.7047	19.8553
5.7000	-17.7500	-33.5500	-13.8969	19.6531
5.8000	-17.6800	-33.4800	-14.0857	19.3943
5.9000	-17.9000	-33.7000	-14.2713	19.4287
6.0000	-18.3200	-34.1200	-14.4538	19.6662
6.1000	-18.3500	-34.1500	-14.6332	19.5168
6.2000	-18.7200	-34.5200	-14.8098	19.7102
6.3000	-19.2300	-35.0300	-14.9835	20.0465
6.4000	-19.8200	-35.6200	-15.1545	20.4655
6.5000	-20.4000	-36.2000	-15.3228	20.8772
6.6000	-21.4100	-37.2100	-15.4886	21.7214
6.7000	-22.4400	-38.2400	-15.6519	22.5881
6.8000	-23.7000	-39.5000	-15.8127	23.6873
6.9000	-25.4500	-41.2500	-15.9712	25.2788
7.0000	-26.4000	-42.2000	-16.0000	26.2000
7.1000	-27.3700	-43.1700	-16.0000	27.1700
7.2000	-27.1300	-42.9300	-16.0000	26.9300
7.3000	-27.8000	-43.6000	-16.0000	27.6000
7.4000	-26.9400	-42.7400	-16.0000	26.7400
7.5000	-27.1000	-42.9000	-16.0000	26.9000

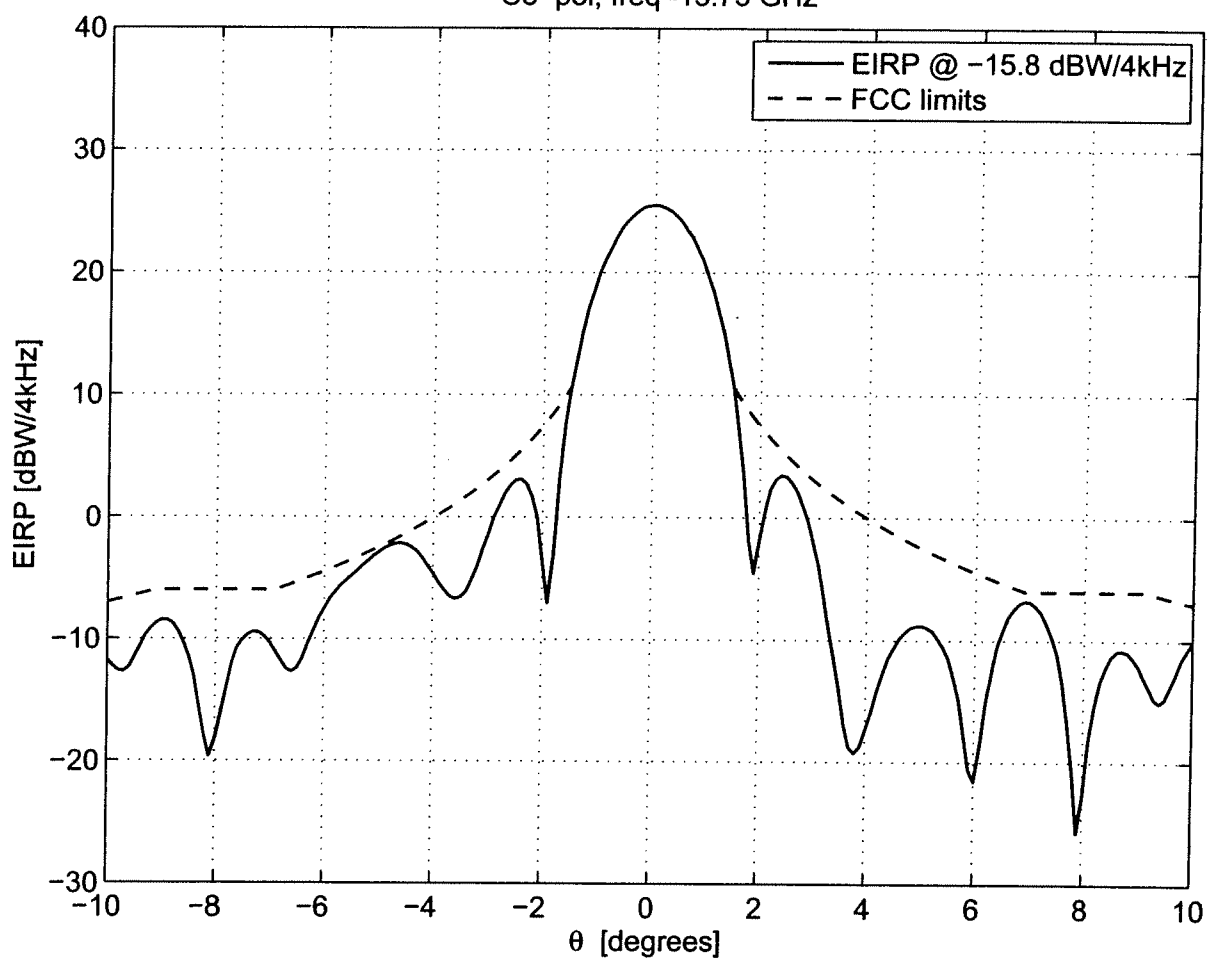
Sailor900_EIRPtable_xpol_th10_f1425.TXT

7.6000	-26.2000	-42.0000	-16.0000	26.0000
7.7000	-25.8000	-41.6000	-16.0000	25.6000
7.8000	-24.8100	-40.6100	-16.0000	24.6100
7.9000	-24.1600	-39.9600	-16.0000	23.9600
8.0000	-23.2300	-39.0300	-16.0000	23.0300
8.1000	-22.0800	-37.8800	-16.0000	21.8800
8.2000	-21.1600	-36.9600	-16.0000	20.9600
8.3000	-20.0300	-35.8300	-16.0000	19.8300
8.4000	-18.9200	-34.7200	-16.0000	18.7200
8.5000	-18.3700	-34.1700	-16.0000	18.1700
8.6000	-17.4800	-33.2800	-16.0000	17.2800
8.7000	-16.8100	-32.6100	-16.0000	16.6100
8.8000	-16.3000	-32.1000	-16.0000	16.1000
8.9000	-16.1600	-31.9600	-16.0000	15.9600
9.0000	-15.9000	-31.7000	-16.0000	15.7000
9.1000	-15.8000	-31.6000	-16.0000	15.6000
9.2000	-16.1400	-31.9400	NaN	NaN
9.3000	-16.2800	-32.0800	NaN	NaN
9.4000	-16.5000	-32.3000	NaN	NaN
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9.6000	-17.1600	-32.9600	NaN	NaN
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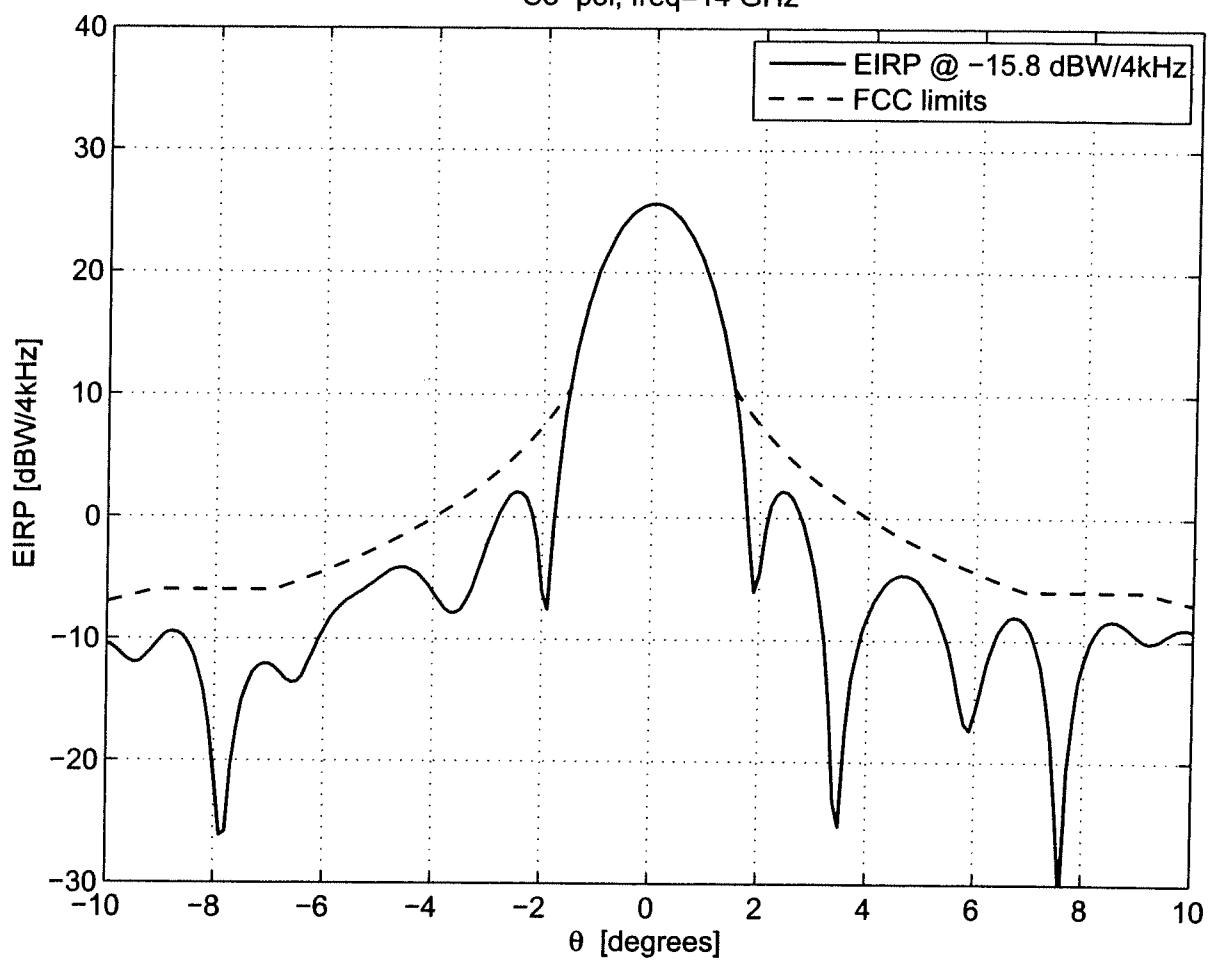
X-pol, freq=14.25 GHz



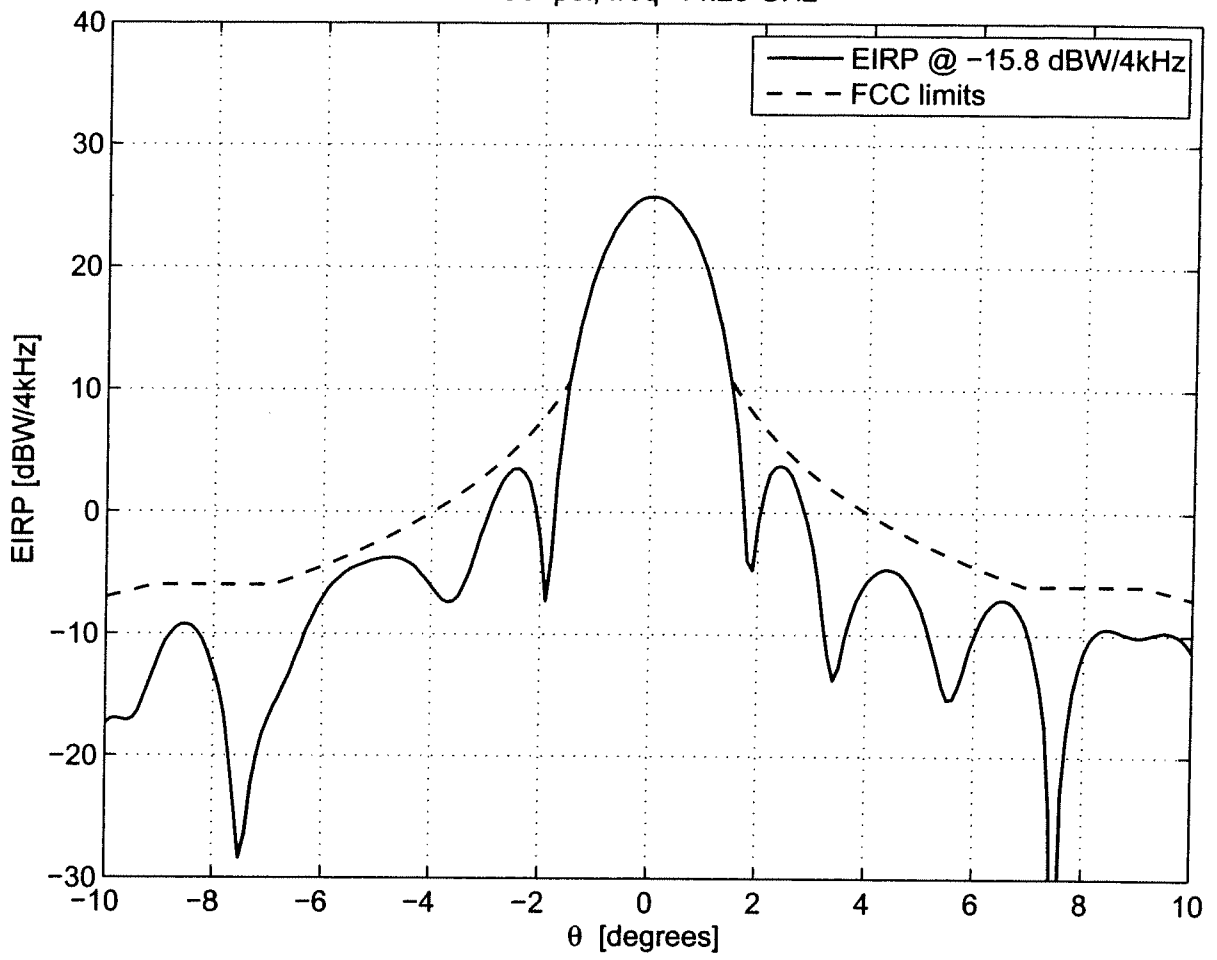
Co-pol, freq=13.75 GHz



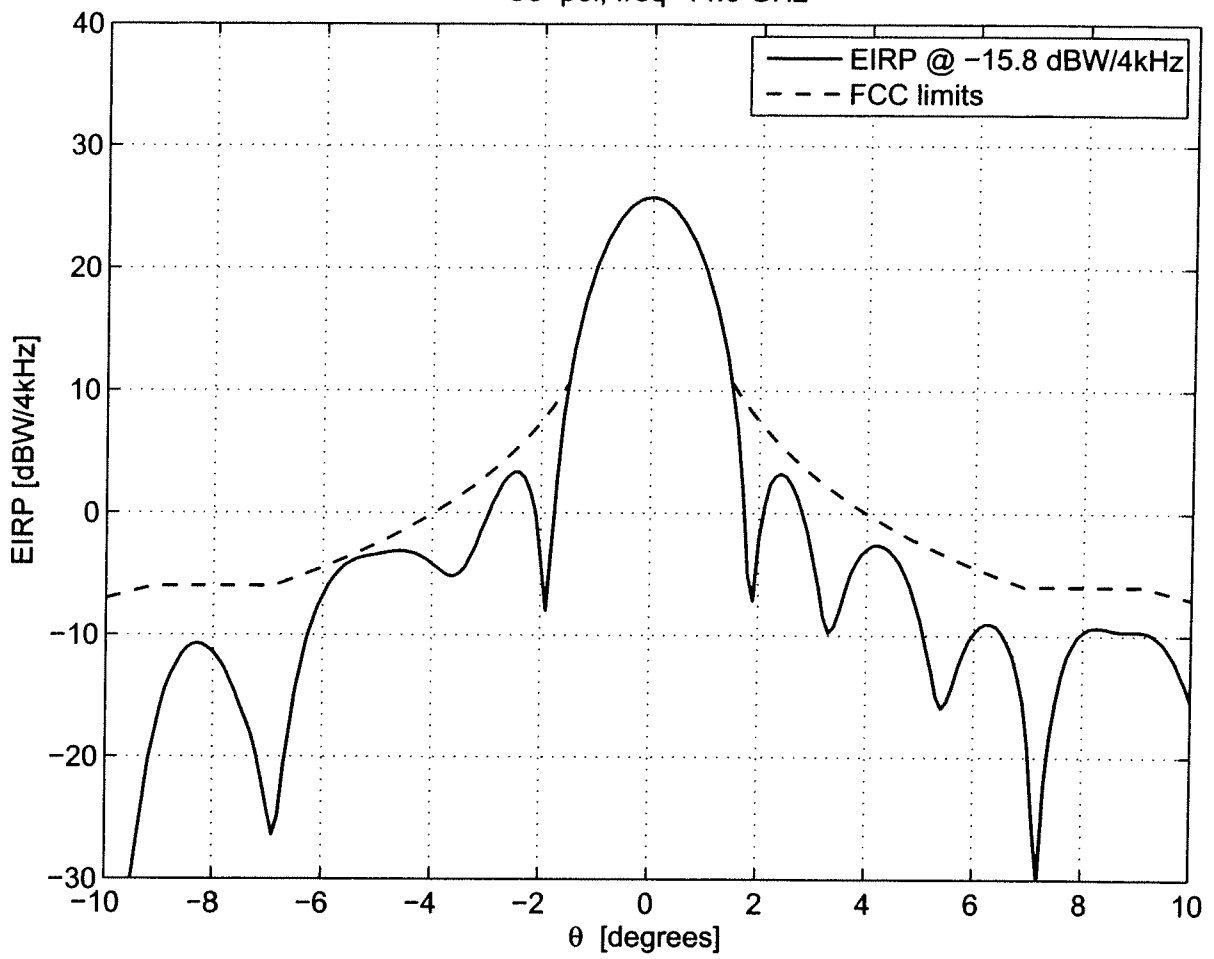
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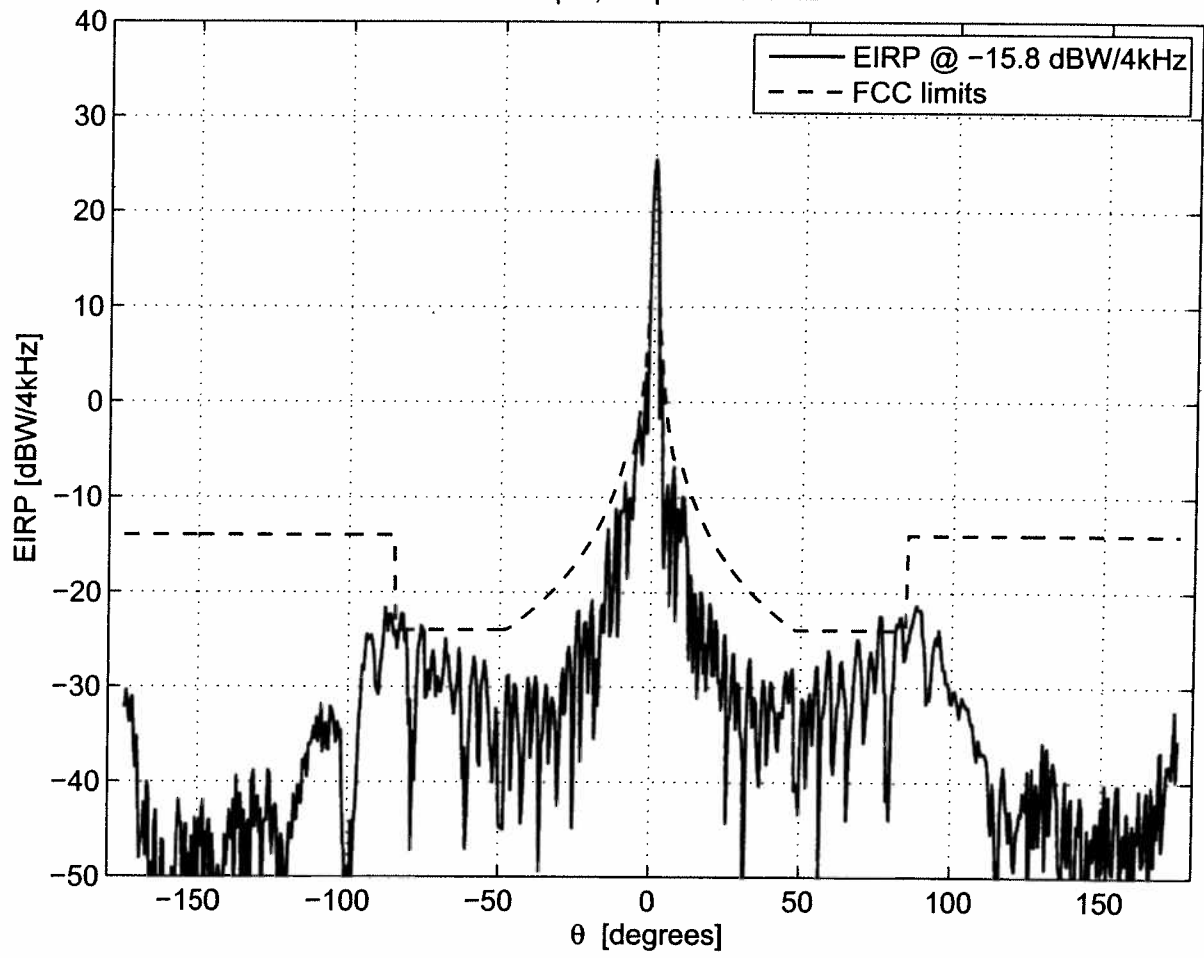
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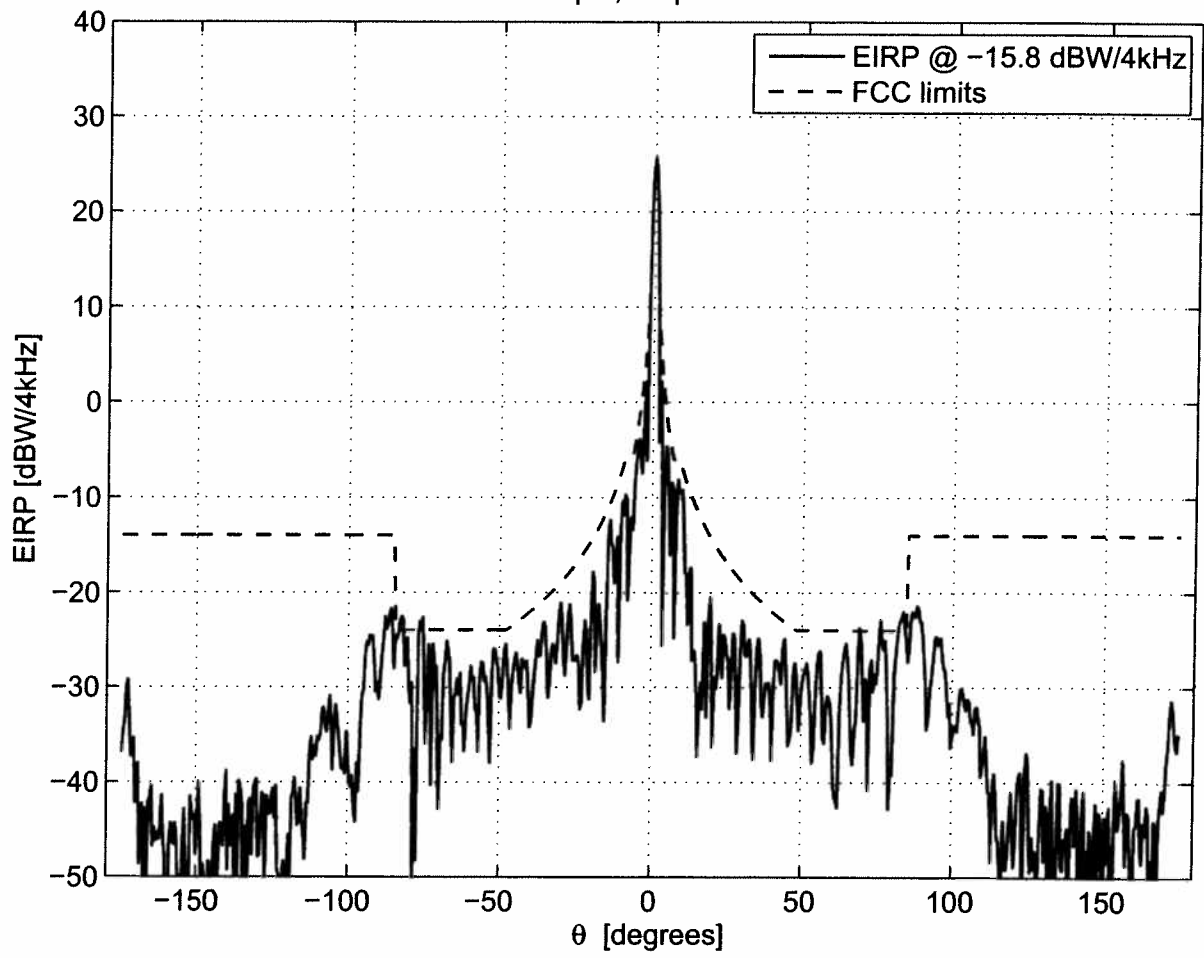
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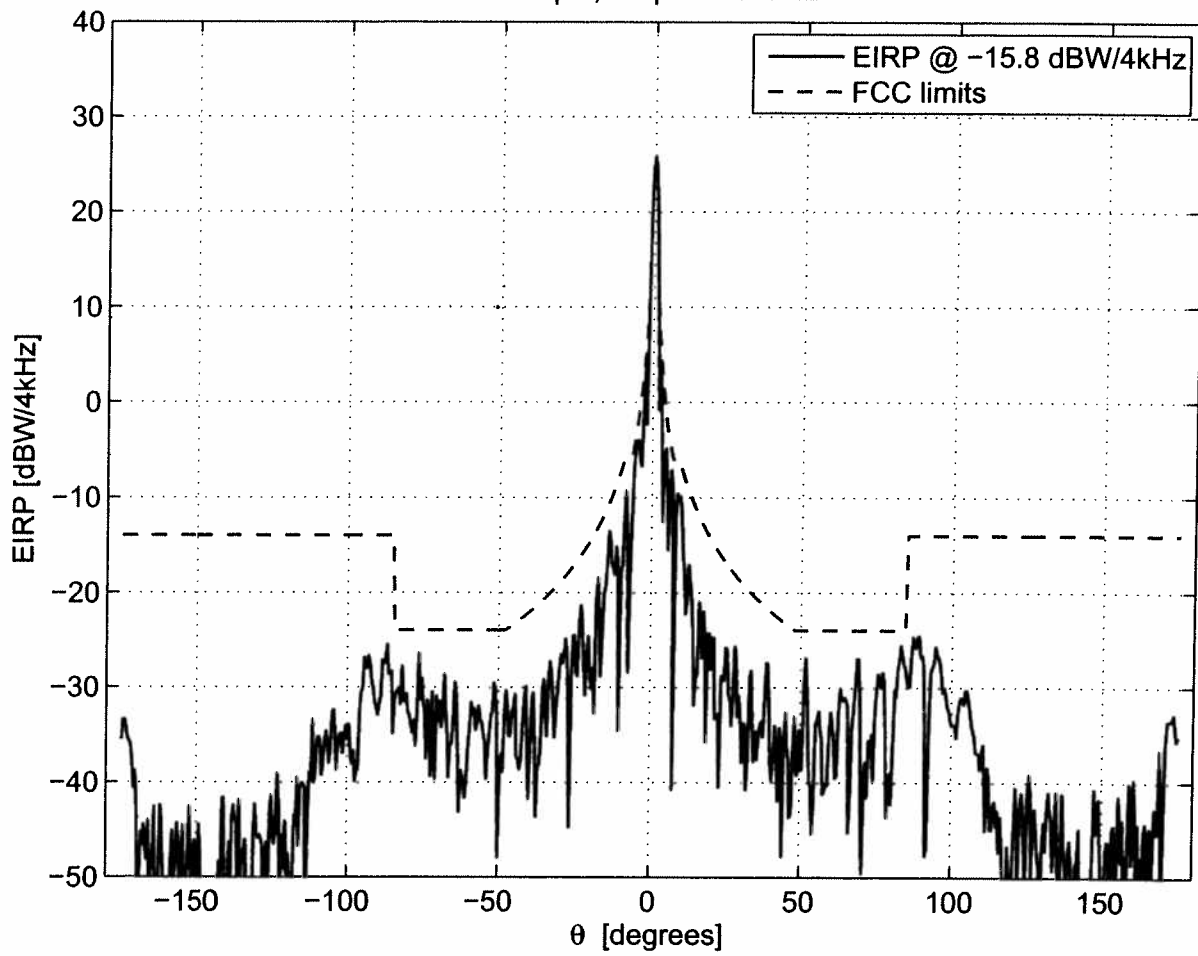
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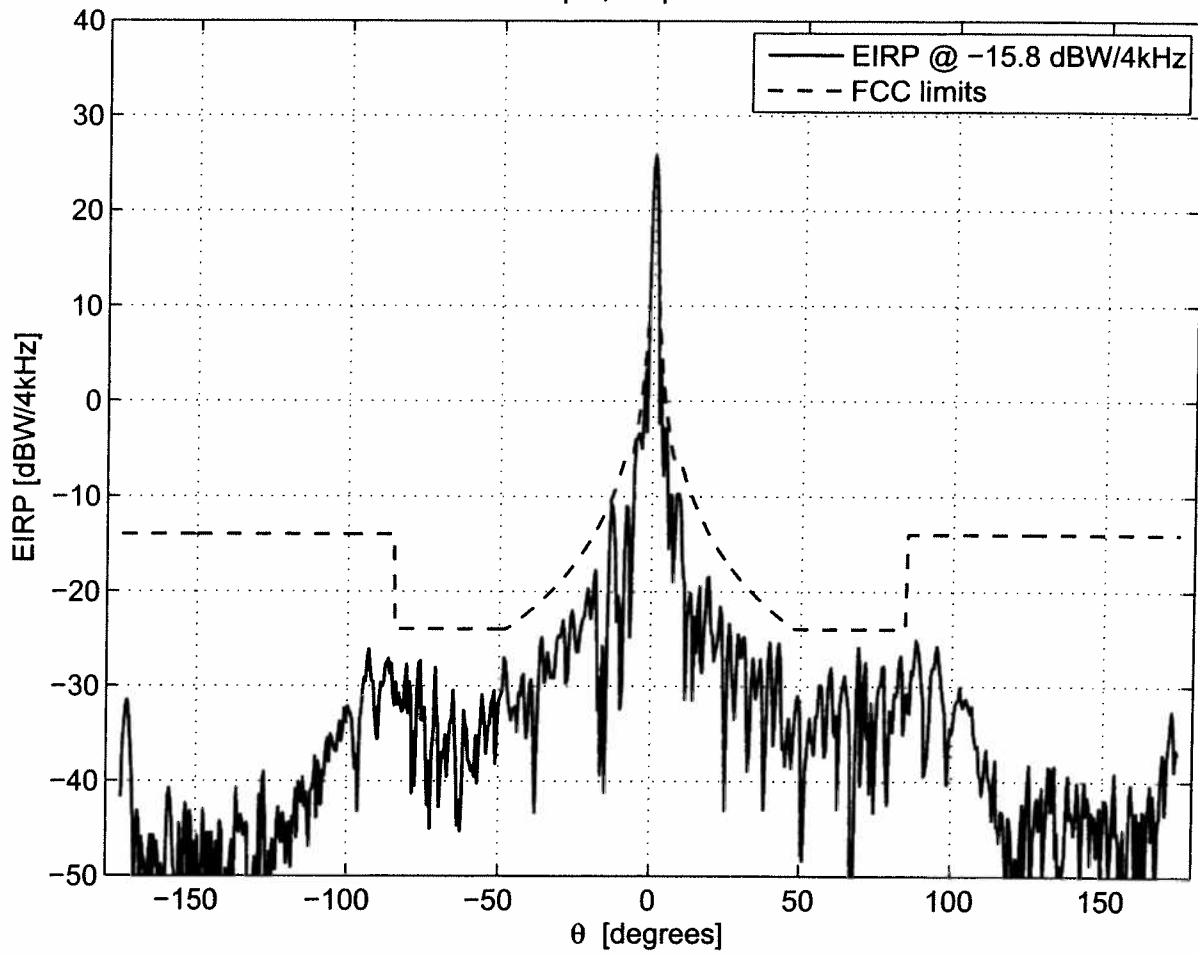
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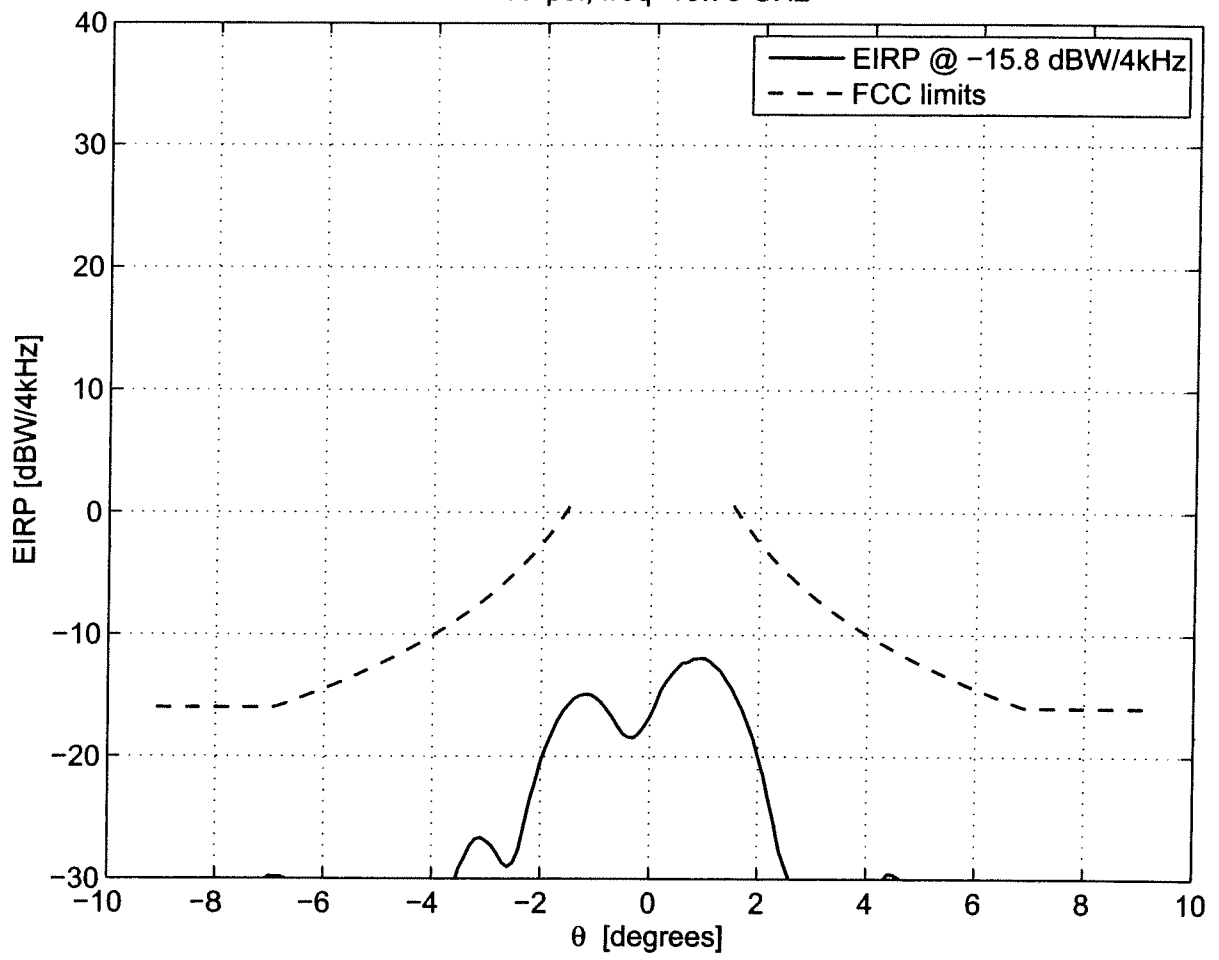
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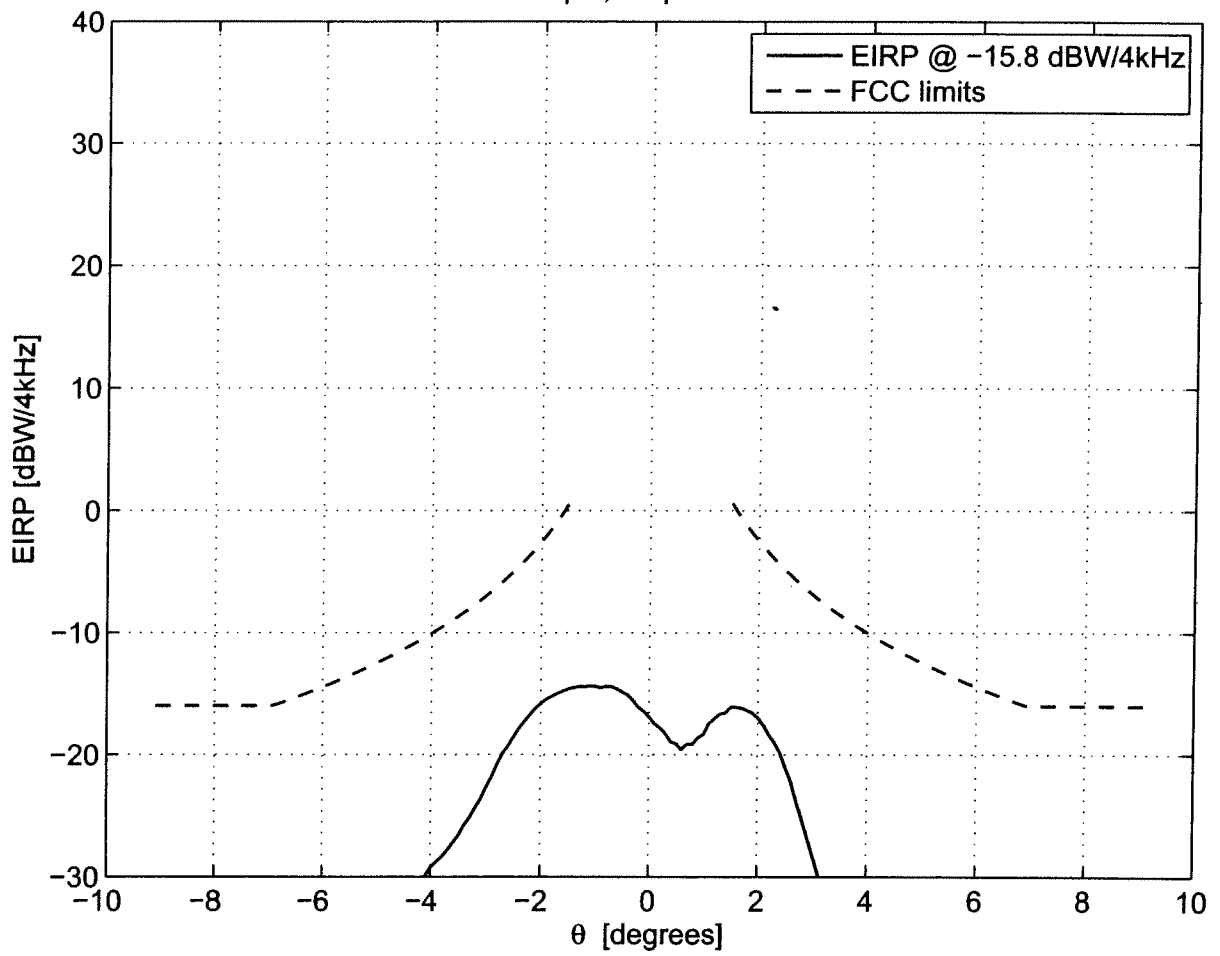
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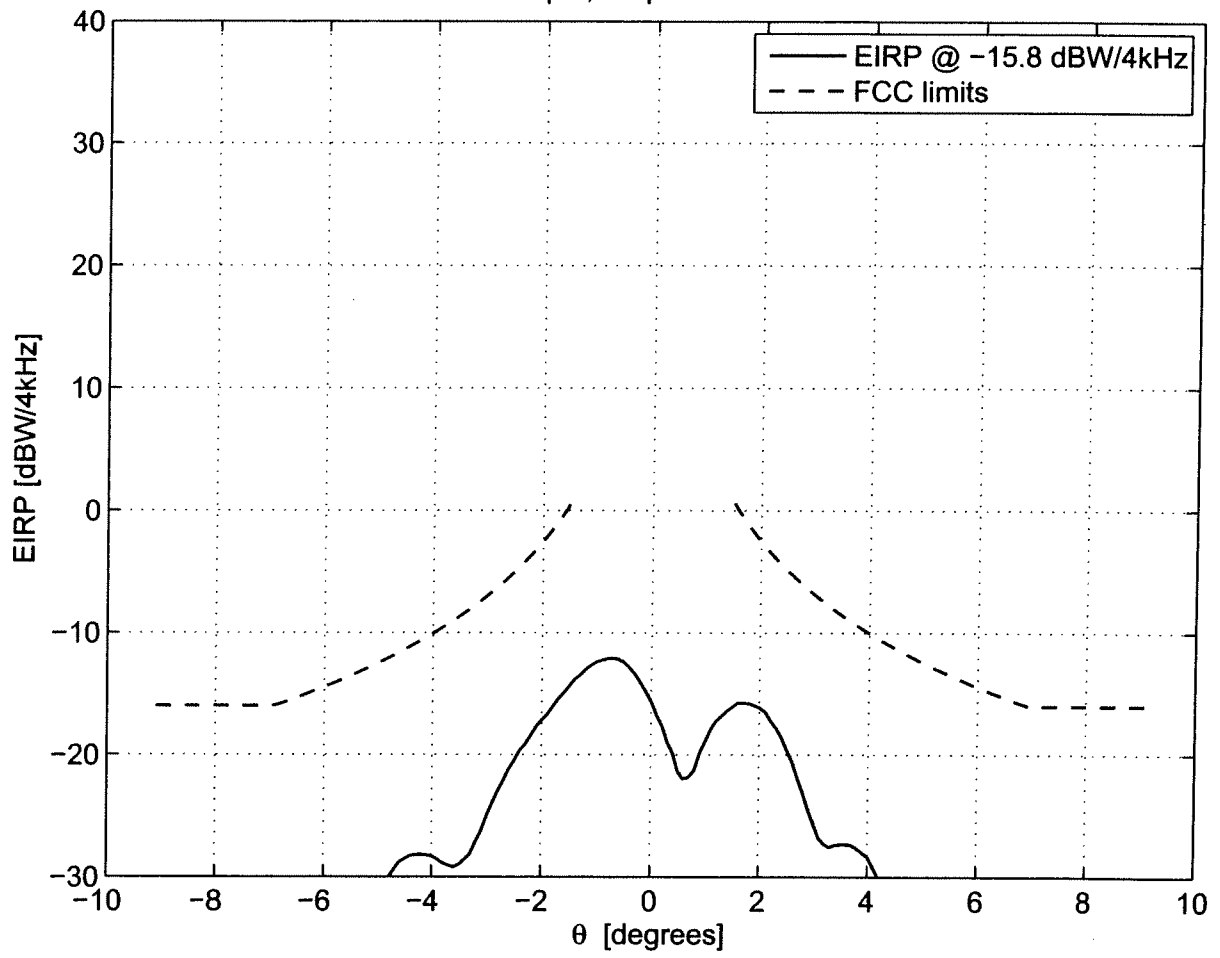
X-pol, freq=13.75 GHz



X-pol, freq=14 GHz



X-pol, freq=14.25 GHz



X-pol, freq=14.5 GHz

