

Antenna Test Report

Report No.: E4/2020/20001

Test Plan: Non-compliance with ISO17025

Applicant Name: Dyson Operations Pte Ltd

Manufacturer Name: Dyson Operations Pte Ltd

Product Name: N277 MAIN and AUX ANTENNAS

Model Number: N277 MAIN and AUX ANTENNAS

Measurements performed at

SGS Taiwan Ltd.

Hwaya District, Taiwan

Issued Date: March 16, 2020

	Name	Date & Signature
Prepared by:	Shawn Yen Asst. Supervisor	<i>Shawn Yen</i> March 16, 2020
Approved by:	Dragon Wu Asst. Manager	<i>Dragon Wu</i> March 16, 2020

Distribution

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Measurement System Information

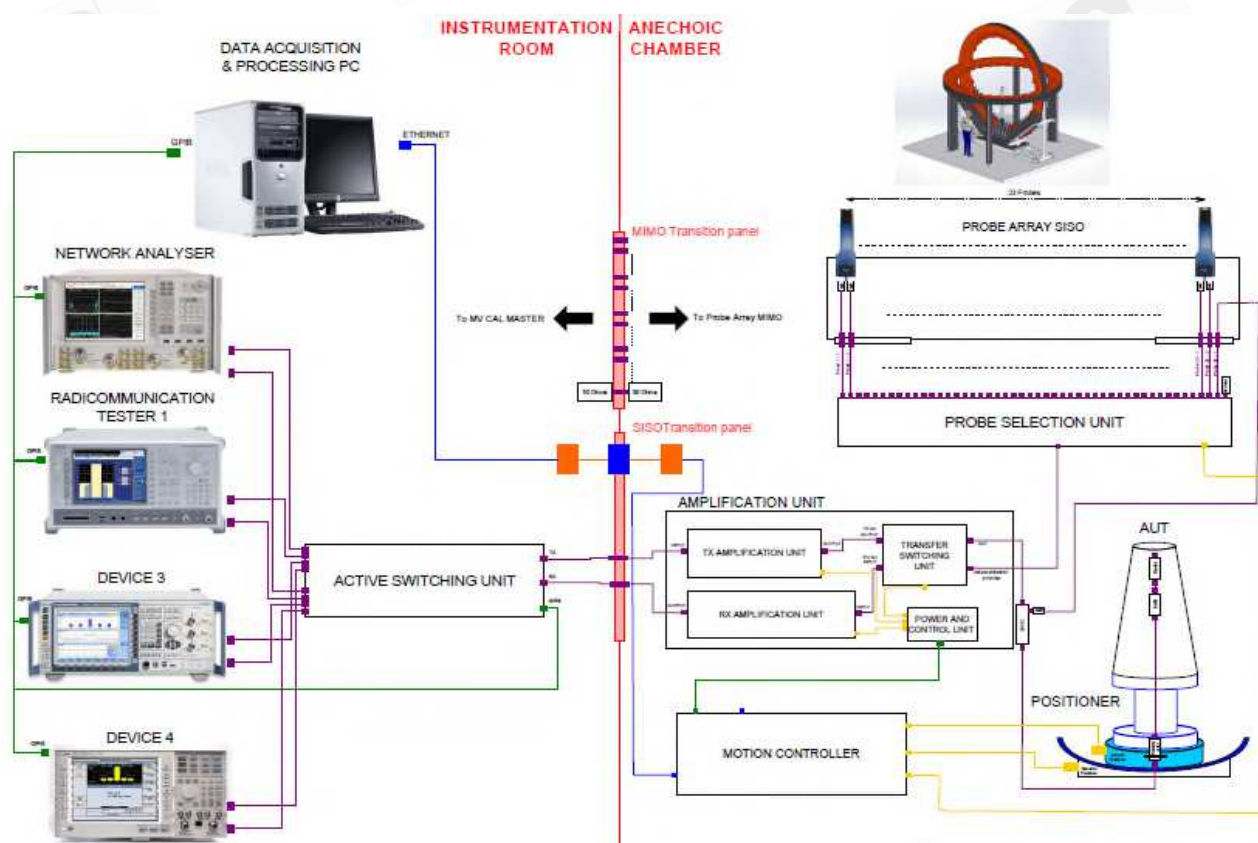
General Information

Testing Condition:

- Temperature: $22 \pm 3^\circ\text{C}$
- Humidity: $< 80\%$

Measurement Facility:

- Measurement Chamber: MVG 3D fully anechoic chamber and its measuring system (Stargate-24-L)
- Base Station Simulator: Anritsu MT8820C (or R&S CMU200)
- Network Analyzer: Agilent E5071C



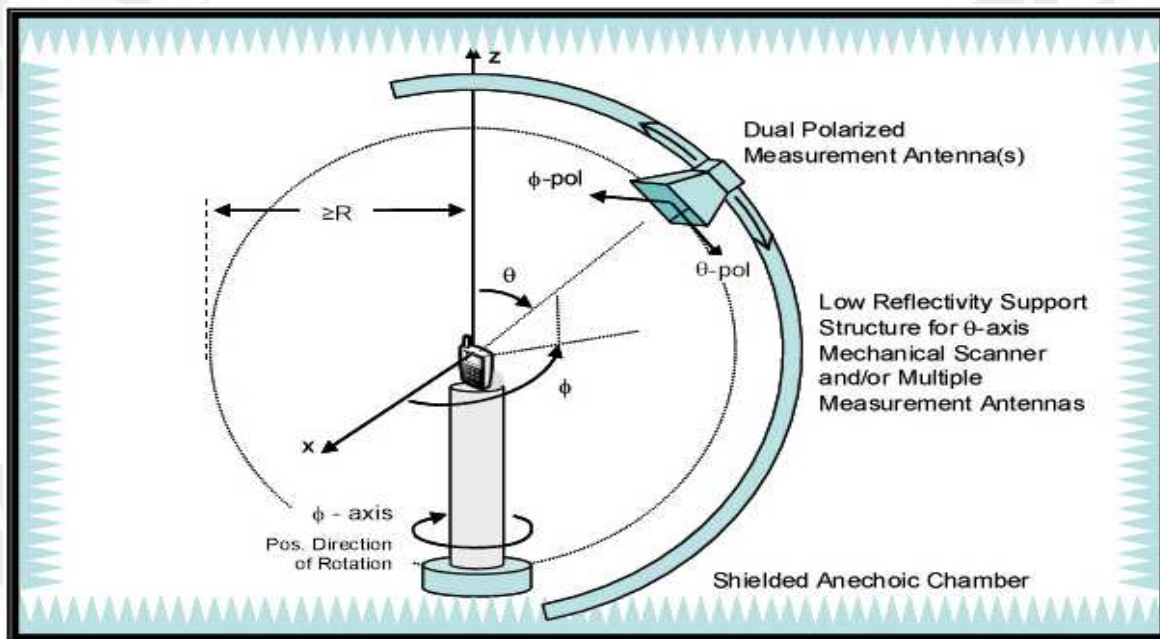
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Measurements are performed in a MVG Stargate-24-L with the StarAct interface for a base station simulator. The **Stargate-24-L** has 23 probe antennas mounted with equal spacing on a circular arch. Electronic switching of the probe antennas provides outstanding measurement speed. The geometry of the setup, with only a Styrofoam column within 1.6 meters of the EUT, ensures minimum interference and low ripple on the measured radiation patterns. The DUT is placed on top of the pedestal, in the center of the system.

Typical Setup for MVG Stargate-24-L:



Instruments View



Inside View



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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

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Testing Laboratory: Identification of the Responsible Test Laboratory.● **OTA Laboratory:****SGS Taiwan Ltd. Electronics & Communication Laboratory**

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803.

Telephone: +886 2 2299 3279

Fax: +886 2 2298 0488

Internet: <http://www.tw.sgs.com>

● **Testing Location:**

No. 2, Keji 1st Rd., Hwaya Technology Park, Guishan District, Taoyuan City, Taiwan 33383.

Details of Applicant:

Applicant's name:	Dyson Operations Pte Ltd
Applicant's address:	The Ascent, 2 Science Park Drive, Tower B, #03-13/26, Science Park 1, Singapore (118222)
Contact person:	Sim Zhi Wei
Telephone:	+65 6871 5836
Fax:	+65 6275 0622
E-mail:	zhiwei.sim@dyson.com

Details of Manufacturer:

Manufacturer's name:	Dyson Operations Pte Ltd
Manufacturer's address:	The Ascent, 2 Science Park Drive, Tower B, #03-13/26, Science Park 1, Singapore (118222)
Contact person:	Sim Zhi Wei
Telephone:	+65 6871 5836
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Details of EUT:

Device Description:	N277 MAIN and AUX ANTENNAS
Device Manufacturer:	Dyson Operations Pte Ltd
Device Model:	N277 MAIN and AUX ANTENNAS
Hardware Version:	DVT1
Software Version:	NA
FCC ID:	NA
Frequency Range:	WiFi Dual Band: 2400MHz ~ 2500MHz, 4700MHz ~ 6000MHz
Antenna Type:	Internal antenna

Duration of Tests:

Sample Receive Date:	2020-01-31
Test Starting Date:	2020-01-31
Test Ending Date:	2020-01-31
Report Issued Date:	2020-03-16

List of Equipment**Equipment Summary Sheet**

Equipment Description	Manufacturer	Identification no.	Current calibration date	Next calibration date
Universal Radio Communication tester	Anritsu	MT8820C	2019/10/11	2020/10/10
Network Analyzer	Agilent	E5071C	2019/12/13	2020/12/12
Sleeve Dipole	MVG	SD740	2019/01/17	2021/01/16
Dual Ridge Horn	MVG	SH800	2019/08/20	2020/08/19
Stargate-24-L probe array	MVG	Stargate-24-L	2019/11/13	2020/11/12
Measurement software	MVG	SPM V1.9	N/A	N/A

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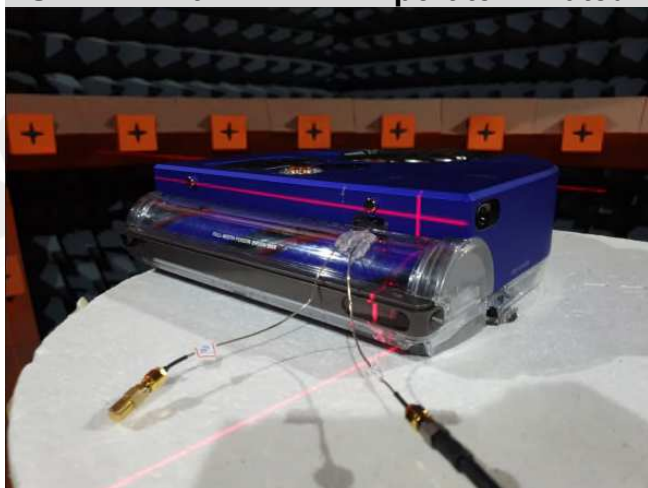
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Test Setup

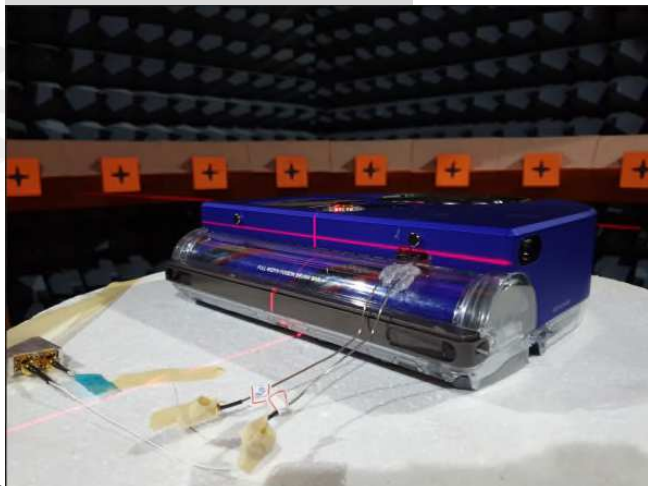
MAIN ANT with AUX ANT port terminated with 50 ohm



AUX ANT with MAIN ANT port terminated with 50 ohm



Both MAIN and AUX ANTs



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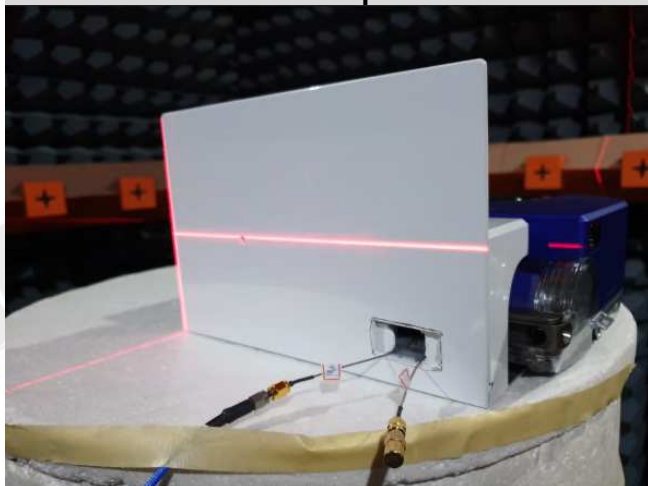
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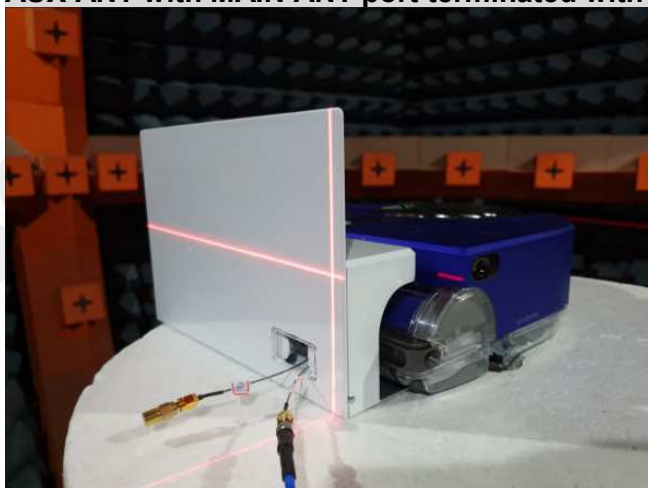
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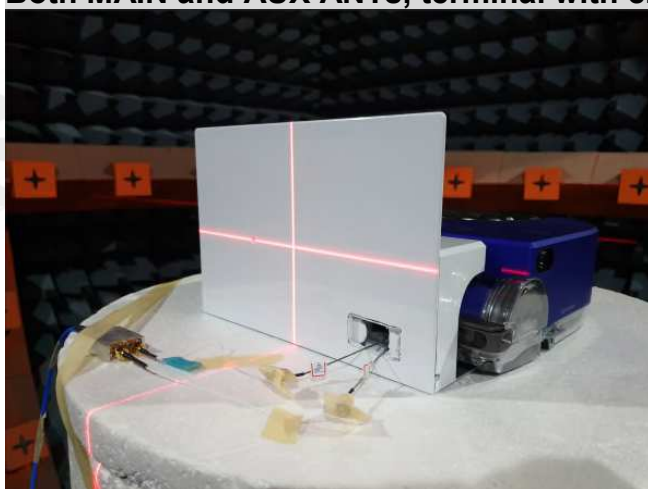
MAIN ANT with AUX ANT port terminated with 50 ohm, terminal with charging stand



AUX ANT with MAIN ANT port terminated with 50 ohm, terminal with charging stand



Both MAIN and AUX ANT, terminal with charging stand



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f (886-2) 2298-0488

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Antenna Gain and Efficiency**MAIN ANT with AUX ANT port terminated with 50 ohm**

Add coax-cable loss

Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Min Antenna Gain (90%) (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
2412.00	3.62	-24.83	-7.92	61.62%	-2.10
2442.00	3.84	-23.69	-6.99	65.21%	-1.86
2472.00	3.90	-30.93	-7.08	65.15%	-1.86
5180.00	5.44	-24.04	-10.67	72.26%	-1.41
5500.00	6.17	-26.81	-9.33	70.74%	-1.50
5700.00	4.66	-28.60	-11.70	57.75%	-2.38
5720.00	4.87	-28.53	-11.85	56.58%	-2.47
5800.00	4.54	-32.73	-12.16	57.99%	-2.37
5825.00	5.10	-27.07	-11.21	61.50%	-2.11

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Without_ coax-cable loss

Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
2400.00	3.62	-23.41	53.09%	-2.75
2402.00	3.51	-23.31	53.26%	-2.74
2412.00	3.12	-25.33	54.92%	-2.60
2417.00	3.12	-26.80	55.77%	-2.54
2422.00	2.95	-25.70	56.40%	-2.49
2427.00	2.71	-24.10	57.13%	-2.43
2432.00	2.90	-23.27	57.65%	-2.39
2437.00	3.16	-21.89	57.98%	-2.37
2440.00	3.28	-23.00	58.08%	-2.36
2442.00	3.34	-24.19	58.12%	-2.36
2447.00	3.39	-27.08	57.89%	-2.37
2452.00	3.38	-28.08	57.36%	-2.41
2457.00	3.30	-33.46	56.75%	-2.46
2462.00	3.19	-37.37	56.56%	-2.48
2467.00	3.26	-31.85	56.85%	-2.45
2472.00	3.40	-31.43	58.06%	-2.36
2480.00	3.41	-26.03	58.18%	-2.35
2484.00	3.34	-24.59	57.63%	-2.39
2500.00	2.99	-27.11	54.90%	-2.60
4700.00	3.83	-32.02	41.85%	-3.78
4720.00	4.52	-28.96	40.08%	-3.97
4740.00	4.61	-30.22	41.36%	-3.83
4760.00	4.51	-31.20	42.06%	-3.76
4780.00	4.62	-29.39	44.49%	-3.52
4800.00	4.35	-27.74	46.35%	-3.34
4820.00	4.45	-29.77	48.57%	-3.14
4840.00	4.65	-30.70	52.19%	-2.82
4860.00	4.54	-27.93	52.90%	-2.77
4880.00	4.71	-28.28	55.66%	-2.54
4900.00	4.62	-34.34	57.45%	-2.41
4920.00	4.58	-27.22	58.26%	-2.35
4940.00	4.83	-30.09	58.03%	-2.36
4960.00	5.02	-31.54	59.71%	-2.24
4980.00	5.01	-36.47	59.30%	-2.27
5000.00	4.88	-32.66	58.94%	-2.30
5020.00	4.72	-27.22	58.77%	-2.31
5040.00	4.74	-28.88	57.82%	-2.38
5060.00	4.91	-28.48	57.77%	-2.38
5080.00	4.99	-27.22	56.23%	-2.50
5100.00	5.44	-29.88	53.53%	-2.71
5120.00	6.48	-26.05	56.11%	-2.51
5140.00	5.26	-26.65	55.15%	-2.58
5160.00	4.16	-23.97	55.70%	-2.54

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Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
5180.00	4.44	-25.04	57.40%	-2.41
5200.00	4.47	-33.48	57.04%	-2.44
5220.00	4.78	-26.77	61.12%	-2.14
5240.00	4.64	-27.05	57.02%	-2.44
5260.00	4.54	-26.71	56.48%	-2.48
5280.00	4.52	-27.23	58.61%	-2.32
5300.00	4.94	-29.00	58.75%	-2.31
5320.00	5.19	-28.60	56.94%	-2.45
5340.00	4.90	-35.57	57.11%	-2.43
5360.00	4.56	-29.03	55.12%	-2.59
5380.00	4.81	-27.64	56.07%	-2.51
5400.00	5.07	-27.42	56.69%	-2.47
5420.00	4.84	-33.95	53.61%	-2.71
5440.00	4.99	-26.20	55.57%	-2.55
5460.00	5.17	-29.21	54.77%	-2.61
5480.00	5.28	-27.41	56.23%	-2.50
5500.00	5.17	-27.81	56.19%	-2.50
5520.00	5.01	-30.64	54.87%	-2.61
5540.00	4.72	-27.46	51.69%	-2.87
5560.00	5.08	-27.98	53.41%	-2.72
5580.00	5.09	-32.62	52.87%	-2.77
5600.00	5.07	-25.50	49.57%	-3.05
5620.00	4.88	-24.86	49.42%	-3.06
5640.00	4.43	-27.16	48.32%	-3.16
5660.00	4.18	-28.38	49.50%	-3.05
5680.00	3.46	-33.81	44.83%	-3.48
5700.00	3.66	-29.60	45.87%	-3.38
5720.00	3.87	-29.53	44.94%	-3.47
5740.00	4.08	-28.78	46.31%	-3.34
5760.00	3.75	-28.76	44.93%	-3.47
5780.00	3.61	-31.89	45.49%	-3.42
5800.00	3.54	-33.73	46.06%	-3.37
5820.00	4.10	-29.45	49.31%	-3.07
5825.00	4.10	-28.07	48.85%	-3.11
5840.00	4.11	-27.57	47.29%	-3.25
5860.00	4.40	-28.45	50.67%	-2.95
5880.00	4.53	-26.49	51.02%	-2.92
5900.00	4.79	-24.79	50.78%	-2.94
5920.00	5.33	-27.43	51.17%	-2.91
5940.00	5.30	-24.20	50.74%	-2.95
5960.00	5.31	-29.62	49.52%	-3.05
5980.00	5.20	-27.71	47.74%	-3.21
6000.00	5.30	-31.27	46.20%	-3.35

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AUX ANT with MAIN ANT port terminated with 50 ohm**Add coax-cable loss**

Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Min Antenna Gain (90%) (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
2402.00	3.58	-29.88	-7.78	66.33%	-1.78
2412.00	3.49	-25.65	-7.63	67.69%	-1.70
2440.00	5.03	-29.70	-7.73	71.16%	-1.48
2442.00	5.01	-28.56	-7.79	70.61%	-1.51
2472.00	4.54	-24.69	-8.48	65.73%	-1.82
2480.00	4.27	-27.33	-8.91	61.90%	-2.08
5180.00	6.16	-28.10	-10.50	74.49%	-1.28
5500.00	5.86	-27.93	-11.59	81.48%	-0.89
5700.00	5.32	-29.30	-11.40	87.42%	-0.58
5720.00	5.61	-28.04	-11.07	85.89%	-0.66
5800.00	5.19	-33.66	-11.34	86.18%	-0.65
5825.00	5.80	-32.25	-10.70	85.67%	-0.67

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Without_ coax-cable loss

Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
2400.00	3.13	-30.50	59.01%	-2.29
2402.00	3.08	-30.38	59.11%	-2.28
2412.00	2.99	-26.15	60.32%	-2.20
2417.00	3.24	-26.20	61.08%	-2.14
2422.00	3.73	-38.75	62.04%	-2.07
2427.00	4.10	-23.69	63.54%	-1.97
2432.00	4.34	-24.68	64.31%	-1.92
2437.00	4.49	-28.70	63.99%	-1.94
2440.00	4.53	-30.20	63.42%	-1.98
2442.00	4.51	-29.06	62.93%	-2.01
2447.00	4.44	-28.29	61.17%	-2.13
2452.00	4.26	-25.34	59.89%	-2.23
2457.00	4.19	-24.33	59.76%	-2.24
2462.00	4.18	-22.38	60.12%	-2.21
2467.00	4.12	-23.64	59.61%	-2.25
2472.00	4.04	-25.19	58.59%	-2.32
2480.00	3.77	-27.83	55.17%	-2.58
2484.00	3.68	-30.53	53.90%	-2.68
2500.00	3.97	-26.43	53.87%	-2.69
4700.00	2.95	-26.83	27.41%	-5.62
4720.00	3.53	-25.52	26.13%	-5.83
4740.00	3.68	-29.17	27.01%	-5.68
4760.00	3.67	-29.04	27.81%	-5.56
4780.00	3.64	-29.60	29.21%	-5.35
4800.00	3.44	-30.02	30.16%	-5.21
4820.00	3.48	-31.90	30.11%	-5.21
4840.00	3.94	-31.61	33.10%	-4.80
4860.00	4.11	-33.27	33.65%	-4.73
4880.00	4.20	-31.18	33.37%	-4.77
4900.00	4.46	-30.07	34.46%	-4.63
4920.00	4.59	-32.55	35.94%	-4.44
4940.00	4.42	-31.87	36.38%	-4.39
4960.00	4.61	-31.96	38.83%	-4.11
4980.00	4.57	-32.29	39.23%	-4.06
5000.00	4.92	-27.25	43.14%	-3.65
5020.00	5.19	-28.20	45.98%	-3.37
5040.00	5.13	-31.45	47.15%	-3.27
5060.00	4.30	-32.09	48.01%	-3.19
5080.00	3.72	-36.71	49.03%	-3.09
5100.00	4.77	-27.81	51.05%	-2.92
5120.00	5.59	-27.51	53.13%	-2.75
5140.00	5.06	-28.59	52.40%	-2.81
5160.00	5.03	-34.67	55.93%	-2.52

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Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
5180.00	5.16	-29.10	59.17%	-2.28
5200.00	4.93	-25.45	59.00%	-2.29
5220.00	5.31	-25.42	62.74%	-2.02
5240.00	5.09	-25.39	59.53%	-2.25
5260.00	4.48	-27.38	60.75%	-2.16
5280.00	4.05	-29.33	62.26%	-2.06
5300.00	4.75	-29.73	63.30%	-1.99
5320.00	5.17	-34.01	62.57%	-2.04
5340.00	5.24	-31.14	63.59%	-1.97
5360.00	5.29	-30.37	62.28%	-2.06
5380.00	5.36	-27.06	63.49%	-1.97
5400.00	5.41	-27.99	64.86%	-1.88
5420.00	5.14	-32.52	62.63%	-2.03
5440.00	5.39	-35.17	64.62%	-1.90
5460.00	5.30	-34.40	63.62%	-1.96
5480.00	5.33	-29.06	64.69%	-1.89
5500.00	4.86	-28.93	64.72%	-1.89
5520.00	4.34	-28.09	64.32%	-1.92
5540.00	4.06	-29.80	62.30%	-2.05
5560.00	4.09	-36.33	65.42%	-1.84
5580.00	4.11	-31.91	66.74%	-1.76
5600.00	3.84	-27.36	64.73%	-1.89
5620.00	3.69	-26.85	67.58%	-1.70
5640.00	3.47	-29.29	67.48%	-1.71
5660.00	3.79	-29.56	69.64%	-1.57
5680.00	3.59	-31.04	66.64%	-1.76
5700.00	4.32	-30.30	69.44%	-1.58
5720.00	4.61	-29.04	68.23%	-1.66
5740.00	4.20	-31.26	70.82%	-1.50
5760.00	3.77	-32.44	67.73%	-1.69
5780.00	4.02	-32.62	69.14%	-1.60
5800.00	4.19	-34.66	68.45%	-1.65
5820.00	4.70	-33.02	68.33%	-1.65
5825.00	4.80	-33.25	68.05%	-1.67
5840.00	5.19	-31.55	67.40%	-1.71
5860.00	5.15	-30.76	68.98%	-1.61
5880.00	4.86	-30.62	66.64%	-1.76
5900.00	5.33	-29.75	65.39%	-1.84
5920.00	5.92	-29.09	66.32%	-1.78
5940.00	6.01	-28.91	65.00%	-1.87
5960.00	5.90	-29.02	64.27%	-1.92
5980.00	5.64	-32.32	63.07%	-2.00
6000.00	5.56	-32.47	62.24%	-2.06

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Both MAIN and AUX ANTs**Add coax-cable loss**

Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Min Antenna Gain (90%) (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
2412.00	5.34	-27.14	-6.29	83.10%	-0.80
2442.00	5.10	-23.51	-6.49	89.06%	-0.50
2472.00	4.39	-23.75	-6.98	82.45%	-0.84
5180.00	7.79	-24.80	-8.36	75.96%	-1.19
5500.00	7.88	-27.55	-7.76	72.06%	-1.42
5700.00	6.33	-28.73	-8.23	74.75%	-1.26
5720.00	6.39	-31.82	-8.00	74.15%	-1.30
5800.00	6.42	-27.65	-8.88	62.20%	-2.06
5825.00	6.22	-23.80	-8.83	65.27%	-1.85

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Without_ coax-cable loss

Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
2400.00	4.87	-24.33	69.81%	-1.56
2402.00	4.86	-24.90	69.21%	-1.60
2412.00	4.84	-27.64	74.07%	-1.30
2417.00	4.78	-26.43	73.08%	-1.36
2422.00	4.80	-30.11	72.20%	-1.41
2427.00	4.69	-30.79	75.22%	-1.24
2432.00	4.69	-27.16	71.06%	-1.48
2437.00	4.59	-23.88	75.33%	-1.23
2440.00	4.75	-23.56	73.99%	-1.31
2442.00	4.60	-24.01	79.37%	-1.00
2447.00	4.82	-23.19	75.37%	-1.23
2452.00	4.39	-20.33	72.56%	-1.39
2457.00	4.23	-21.71	72.00%	-1.43
2462.00	3.97	-23.13	70.48%	-1.52
2467.00	3.88	-23.94	74.69%	-1.27
2472.00	3.89	-24.25	73.48%	-1.34
2480.00	4.26	-25.25	74.29%	-1.29
2484.00	4.30	-27.68	75.46%	-1.22
2500.00	4.42	-19.99	69.33%	-1.59
4700.00	4.59	-23.80	45.97%	-3.38
4720.00	5.34	-24.86	57.61%	-2.39
4740.00	5.70	-23.84	56.37%	-2.49
4760.00	5.14	-27.78	53.74%	-2.70
4780.00	6.00	-25.49	61.40%	-2.12
4800.00	6.02	-28.76	66.20%	-1.79
4820.00	6.75	-26.91	65.65%	-1.83
4840.00	6.76	-24.15	71.08%	-1.48
4860.00	6.41	-24.67	73.01%	-1.37
4880.00	6.85	-23.96	81.67%	-0.88
4900.00	6.50	-30.98	71.26%	-1.47
4920.00	5.63	-28.06	61.81%	-2.09
4940.00	5.84	-24.55	60.88%	-2.15
4960.00	5.93	-23.28	63.72%	-1.96
4980.00	5.87	-25.93	68.37%	-1.65
5000.00	5.84	-21.84	68.34%	-1.65
5020.00	5.87	-24.85	69.37%	-1.59
5040.00	5.69	-31.17	68.10%	-1.67
5060.00	5.75	-29.18	68.28%	-1.66
5080.00	5.81	-24.40	67.70%	-1.69
5100.00	5.64	-28.17	67.80%	-1.69
5120.00	6.26	-25.88	68.74%	-1.63
5140.00	6.22	-27.61	60.82%	-2.16
5160.00	6.22	-29.12	59.80%	-2.23

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Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
5180.00	6.79	-25.80	60.34%	-2.19
5200.00	6.65	-28.81	58.42%	-2.33
5220.00	7.24	-28.42	60.88%	-2.16
5240.00	7.03	-24.96	58.81%	-2.31
5260.00	7.06	-22.89	57.57%	-2.40
5280.00	7.32	-23.16	59.96%	-2.22
5300.00	6.87	-26.22	59.38%	-2.26
5320.00	6.23	-26.35	60.10%	-2.21
5340.00	6.26	-25.20	59.12%	-2.28
5360.00	6.34	-27.49	56.47%	-2.48
5380.00	6.42	-31.46	59.37%	-2.26
5400.00	6.50	-29.62	58.01%	-2.36
5420.00	6.67	-27.00	51.88%	-2.85
5440.00	6.96	-25.75	53.03%	-2.76
5460.00	6.96	-27.75	56.66%	-2.47
5480.00	6.89	-27.94	57.56%	-2.40
5500.00	6.88	-28.55	57.24%	-2.42
5520.00	6.74	-29.09	58.48%	-2.33
5540.00	6.41	-24.76	60.90%	-2.15
5560.00	6.24	-25.03	62.73%	-2.02
5580.00	6.16	-26.30	60.29%	-2.20
5600.00	5.63	-30.30	56.43%	-2.48
5620.00	5.46	-27.77	58.06%	-2.36
5640.00	5.49	-28.62	57.51%	-2.40
5660.00	5.29	-27.29	58.98%	-2.29
5680.00	4.85	-26.54	58.06%	-2.36
5700.00	5.33	-29.73	59.37%	-2.26
5720.00	5.39	-32.82	58.90%	-2.30
5740.00	5.47	-23.39	56.81%	-2.46
5760.00	5.34	-28.72	51.54%	-2.88
5780.00	5.40	-29.42	51.80%	-2.86
5800.00	5.42	-28.65	49.41%	-3.06
5820.00	5.37	-26.24	51.81%	-2.86
5825.00	5.22	-24.80	51.85%	-2.85
5840.00	5.22	-24.67	51.96%	-2.84
5860.00	4.85	-25.61	50.55%	-2.96
5880.00	4.60	-26.78	51.22%	-2.91
5900.00	5.15	-25.12	52.76%	-2.78
5920.00	5.72	-26.01	59.41%	-2.26
5940.00	5.90	-26.16	58.46%	-2.33
5960.00	5.95	-27.36	56.37%	-2.49
5980.00	5.66	-32.00	55.46%	-2.56
6000.00	5.33	-32.26	53.11%	-2.75

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MAIN ANT with AUX ANT port terminated with 50 ohm, terminal with charging stand**Add coax-cable loss**

Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Min Antenna Gain (90%) (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
2412.00	2.96	-25.62	-8.01	61.22%	-2.13
2442.00	3.66	-24.70	-7.30	64.16%	-1.93
2472.00	3.97	-26.30	-7.33	63.63%	-1.96
5180.00	5.74	-28.10	-10.74	69.32%	-1.59
5500.00	5.23	-25.44	-11.80	64.44%	-1.91
5700.00	4.55	-24.79	-11.00	53.55%	-2.71
5720.00	4.68	-25.34	-11.08	52.90%	-2.77
5800.00	4.27	-28.55	-11.56	48.76%	-3.12
5825.00	5.12	-25.57	-10.66	51.84%	-2.85

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Without_ coax-cable loss

Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
2400.00	2.46	-28.04	52.78%	-2.78
2402.00	2.45	-28.30	53.02%	-2.76
2412.00	2.46	-26.12	54.56%	-2.63
2417.00	2.52	-25.10	55.06%	-2.59
2422.00	2.60	-26.96	55.25%	-2.58
2427.00	2.63	-26.70	55.85%	-2.53
2432.00	2.71	-25.85	56.51%	-2.48
2437.00	2.95	-26.79	56.99%	-2.44
2440.00	3.09	-26.21	57.15%	-2.43
2442.00	3.16	-25.20	57.19%	-2.43
2447.00	3.33	-26.49	56.86%	-2.45
2452.00	3.37	-29.87	56.39%	-2.49
2457.00	3.33	-25.03	55.89%	-2.53
2462.00	3.30	-25.63	55.67%	-2.54
2467.00	3.31	-26.61	55.78%	-2.53
2472.00	3.47	-26.80	56.71%	-2.46
2480.00	3.32	-26.38	56.56%	-2.48
2484.00	3.04	-26.97	56.02%	-2.52
2500.00	2.43	-21.94	53.60%	-2.71
4700.00	5.23	-34.97	43.32%	-3.63
4720.00	5.65	-33.35	41.89%	-3.78
4740.00	5.66	-29.35	43.99%	-3.57
4760.00	5.60	-28.48	45.47%	-3.42
4780.00	5.42	-27.85	46.01%	-3.37
4800.00	5.10	-32.98	45.69%	-3.40
4820.00	5.21	-26.86	48.57%	-3.14
4840.00	5.03	-29.92	51.83%	-2.85
4860.00	4.86	-33.86	51.95%	-2.84
4880.00	5.29	-31.27	54.42%	-2.64
4900.00	5.57	-30.23	55.65%	-2.55
4920.00	5.77	-26.27	55.57%	-2.55
4940.00	5.87	-25.09	54.81%	-2.61
4960.00	6.13	-25.53	56.23%	-2.50
4980.00	6.16	-27.88	55.65%	-2.55
5000.00	6.20	-27.01	55.39%	-2.57
5020.00	6.26	-29.26	55.60%	-2.55
5040.00	6.22	-30.06	55.28%	-2.57
5060.00	5.36	-29.26	55.49%	-2.56
5080.00	4.45	-26.96	54.39%	-2.64
5100.00	4.78	-37.75	51.98%	-2.84
5120.00	5.52	-28.93	54.31%	-2.65
5140.00	5.07	-25.54	53.15%	-2.75
5160.00	4.84	-27.46	53.62%	-2.71

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Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
5180.00	4.74	-29.10	55.06%	-2.59
5200.00	4.75	-28.49	54.45%	-2.64
5220.00	5.60	-29.54	58.26%	-2.35
5240.00	5.97	-35.04	54.21%	-2.66
5260.00	5.43	-33.07	53.49%	-2.72
5280.00	4.92	-32.86	55.17%	-2.58
5300.00	5.46	-33.71	55.33%	-2.57
5320.00	5.69	-34.48	53.38%	-2.73
5340.00	5.59	-31.89	53.77%	-2.69
5360.00	5.36	-29.76	52.11%	-2.83
5380.00	5.33	-29.67	52.65%	-2.79
5400.00	5.30	-27.61	52.95%	-2.76
5420.00	5.14	-28.09	49.97%	-3.01
5440.00	5.28	-28.22	51.15%	-2.91
5460.00	4.13	-26.53	50.08%	-3.00
5480.00	3.25	-28.20	51.13%	-2.91
5500.00	4.23	-26.44	51.19%	-2.91
5520.00	4.96	-28.66	49.64%	-3.04
5540.00	4.36	-29.07	46.39%	-3.34
5560.00	4.21	-25.42	48.05%	-3.18
5580.00	4.11	-28.46	47.55%	-3.23
5600.00	3.84	-31.64	44.73%	-3.49
5620.00	3.50	-32.68	44.77%	-3.49
5640.00	3.07	-26.51	44.16%	-3.55
5660.00	3.33	-26.29	45.49%	-3.42
5680.00	3.23	-29.30	41.39%	-3.83
5700.00	3.55	-25.79	42.54%	-3.71
5720.00	3.68	-26.34	42.02%	-3.77
5740.00	3.70	-32.02	41.00%	-3.87
5760.00	3.49	-28.20	37.60%	-4.25
5780.00	3.35	-29.50	38.18%	-4.18
5800.00	3.27	-29.55	38.73%	-4.12
5820.00	4.08	-27.61	41.53%	-3.82
5825.00	4.12	-26.57	41.18%	-3.85
5840.00	4.15	-28.63	40.26%	-3.95
5860.00	4.02	-34.95	45.60%	-3.41
5880.00	3.84	-31.32	48.24%	-3.17
5900.00	3.89	-27.37	47.74%	-3.21
5920.00	4.02	-30.17	47.84%	-3.20
5940.00	4.04	-33.57	47.12%	-3.27
5960.00	4.17	-35.85	45.60%	-3.41
5980.00	4.08	-32.11	43.67%	-3.60
6000.00	4.05	-35.19	41.88%	-3.78

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SGS Taiwan Ltd.

No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

AUX ANT with MAIN ANT port terminated with 50 ohm, terminal with charging stand**Add coax-cable loss**

Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Min Antenna Gain (90%) (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
2402.00	4.11	-26.01	-8.87	62.03%	-2.07
2412.00	4.15	-22.77	-8.93	63.02%	-2.01
2440.00	4.51	-29.89	-8.54	66.67%	-1.76
2442.00	4.49	-27.89	-8.56	66.01%	-1.80
2472.00	4.26	-21.59	-9.20	60.94%	-2.15
2480.00	4.27	-22.55	-9.56	56.94%	-2.45
5180.00	6.87	-34.59	-11.17	71.06%	-1.48
5500.00	6.86	-28.16	-10.52	79.69%	-0.99
5700.00	7.04	-28.45	-11.04	86.04%	-0.65
5720.00	6.75	-29.22	-11.12	84.56%	-0.73
5800.00	6.23	-28.40	-11.14	84.68%	-0.72
5825.00	6.89	-27.28	-10.60	83.99%	-0.76

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Without_ coax-cable loss

Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
2400.00	3.64	-27.84	55.23%	-2.58
2402.00	3.61	-26.51	55.28%	-2.57
2412.00	3.65	-23.27	56.17%	-2.51
2417.00	3.83	-22.76	56.96%	-2.44
2422.00	4.02	-25.02	58.13%	-2.36
2427.00	4.07	-29.55	59.77%	-2.23
2432.00	4.09	-36.15	60.56%	-2.18
2437.00	4.05	-33.88	60.08%	-2.21
2440.00	4.01	-30.39	59.42%	-2.26
2442.00	3.99	-28.39	58.83%	-2.30
2447.00	3.86	-24.57	57.03%	-2.44
2452.00	3.80	-22.73	55.85%	-2.53
2457.00	3.81	-23.06	55.90%	-2.53
2462.00	3.86	-22.06	56.32%	-2.49
2467.00	3.81	-21.93	55.60%	-2.55
2472.00	3.76	-22.09	54.31%	-2.65
2480.00	3.77	-23.05	50.75%	-2.95
2484.00	3.71	-22.60	49.40%	-3.06
2500.00	3.53	-31.65	48.94%	-3.10
4700.00	3.66	-33.14	26.89%	-5.70
4720.00	3.93	-32.48	25.70%	-5.90
4740.00	3.99	-31.06	26.47%	-5.77
4760.00	4.23	-32.86	27.05%	-5.68
4780.00	4.46	-31.05	28.16%	-5.50
4800.00	4.50	-34.67	29.07%	-5.37
4820.00	4.39	-31.02	28.86%	-5.40
4840.00	4.75	-34.26	31.18%	-5.06
4860.00	4.58	-31.64	30.95%	-5.09
4880.00	4.36	-32.10	30.32%	-5.18
4900.00	4.47	-33.91	31.27%	-5.05
4920.00	4.76	-39.31	32.86%	-4.83
4940.00	4.79	-30.90	33.47%	-4.75
4960.00	5.09	-28.42	35.95%	-4.44
4980.00	5.17	-28.48	36.42%	-4.39
5000.00	5.59	-31.06	40.17%	-3.96
5020.00	5.99	-27.44	43.08%	-3.66
5040.00	6.14	-28.60	44.38%	-3.53
5060.00	5.37	-32.50	45.35%	-3.43
5080.00	4.63	-31.48	46.49%	-3.33
5100.00	5.48	-28.17	48.62%	-3.13
5120.00	6.09	-32.06	50.58%	-2.96
5140.00	5.64	-31.58	49.96%	-3.01
5160.00	5.84	-32.29	53.26%	-2.74

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Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
5180.00	5.87	-35.59	56.44%	-2.48
5200.00	5.57	-31.74	56.13%	-2.51
5220.00	6.32	-31.87	59.83%	-2.23
5240.00	6.43	-27.41	56.86%	-2.45
5260.00	5.62	-24.55	58.18%	-2.35
5280.00	4.92	-27.75	59.59%	-2.25
5300.00	5.66	-30.97	60.63%	-2.17
5320.00	6.22	-28.47	60.26%	-2.20
5340.00	6.27	-27.59	61.10%	-2.14
5360.00	6.26	-33.19	60.03%	-2.22
5380.00	6.36	-33.59	61.56%	-2.11
5400.00	6.39	-29.69	62.96%	-2.01
5420.00	6.21	-32.26	60.93%	-2.15
5440.00	6.41	-27.79	63.11%	-2.00
5460.00	6.30	-27.44	62.22%	-2.06
5480.00	6.37	-34.92	63.61%	-1.97
5500.00	5.86	-29.16	63.30%	-1.99
5520.00	5.43	-27.81	62.80%	-2.02
5540.00	5.24	-25.60	60.89%	-2.15
5560.00	5.39	-25.02	63.98%	-1.94
5580.00	5.48	-25.23	65.48%	-1.84
5600.00	5.19	-30.77	63.44%	-1.98
5620.00	5.31	-34.55	66.24%	-1.79
5640.00	5.40	-31.22	66.13%	-1.80
5660.00	5.79	-32.20	68.20%	-1.66
5680.00	5.81	-32.65	65.51%	-1.84
5700.00	6.04	-29.45	68.34%	-1.65
5720.00	5.75	-30.22	67.17%	-1.73
5740.00	5.45	-31.33	69.72%	-1.57
5760.00	4.96	-34.91	66.95%	-1.74
5780.00	5.17	-33.41	68.14%	-1.67
5800.00	5.23	-29.40	67.26%	-1.72
5820.00	5.77	-28.74	67.03%	-1.74
5825.00	5.89	-28.28	66.72%	-1.76
5840.00	6.28	-27.47	66.02%	-1.80
5860.00	6.22	-30.22	67.74%	-1.69
5880.00	5.95	-34.22	65.46%	-1.84
5900.00	5.94	-34.23	64.19%	-1.93
5920.00	6.01	-27.73	65.23%	-1.86
5940.00	5.87	-28.17	64.12%	-1.93
5960.00	5.72	-30.04	63.32%	-1.98
5980.00	5.47	-29.87	62.30%	-2.05
6000.00	5.34	-35.56	61.68%	-2.10

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Both MAIN and AUX ANT, terminal with charging stand**Add coax-cable loss**

Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Min Antenna Gain (90%) (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
2412.00	4.34	-26.20	-8.14	62.65%	-2.03
2442.00	4.77	-22.59	-7.91	69.28%	-1.59
2472.00	4.13	-25.30	-8.64	60.90%	-2.15
5180.00	5.51	-24.10	-8.28	70.45%	-1.52
5500.00	6.01	-27.07	-7.81	68.56%	-1.64
5700.00	5.36	-31.18	-8.14	65.44%	-1.84
5720.00	5.49	-26.45	-7.94	65.65%	-1.83
5800.00	6.43	-28.50	-8.60	64.56%	-1.90
5825.00	6.50	-25.48	-8.73	66.32%	-1.78

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Without_coax-cable loss

Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
2400.00	4.08	-32.90	54.87%	-2.61
2402.00	4.02	-34.39	54.97%	-2.60
2412.00	3.84	-26.70	55.84%	-2.53
2417.00	3.87	-27.15	57.03%	-2.44
2422.00	3.83	-24.24	57.36%	-2.41
2427.00	3.86	-22.55	58.06%	-2.36
2432.00	4.17	-23.51	62.23%	-2.06
2437.00	4.34	-22.50	63.77%	-1.95
2440.00	4.05	-23.32	58.80%	-2.31
2442.00	4.27	-23.09	61.74%	-2.09
2447.00	4.27	-21.72	61.53%	-2.11
2452.00	4.15	-21.25	59.90%	-2.23
2457.00	3.99	-22.05	57.64%	-2.39
2462.00	3.77	-21.95	55.39%	-2.57
2467.00	3.59	-26.33	53.19%	-2.74
2472.00	3.63	-25.80	54.28%	-2.65
2480.00	3.06	-24.04	51.23%	-2.90
2484.00	3.00	-23.15	53.30%	-2.73
2500.00	2.58	-24.94	48.03%	-3.19
4700.00	4.75	-25.88	43.45%	-3.62
4720.00	5.19	-23.87	48.17%	-3.17
4740.00	4.77	-23.09	44.54%	-3.51
4760.00	4.97	-23.09	43.70%	-3.59
4780.00	5.28	-22.54	46.97%	-3.28
4800.00	4.77	-27.78	40.76%	-3.90
4820.00	4.94	-23.10	41.43%	-3.83
4840.00	5.00	-23.02	42.27%	-3.74
4860.00	4.81	-23.93	41.63%	-3.81
4880.00	5.85	-26.24	50.49%	-2.97
4900.00	5.59	-28.93	48.84%	-3.11
4920.00	4.41	-35.65	44.00%	-3.57
4940.00	4.57	-26.78	45.55%	-3.42
4960.00	4.86	-24.57	46.63%	-3.31
4980.00	4.80	-24.59	43.68%	-3.60
5000.00	4.69	-30.28	44.92%	-3.48
5020.00	4.85	-27.97	49.74%	-3.03
5040.00	5.05	-26.10	50.84%	-2.94
5060.00	5.33	-23.53	52.34%	-2.81
5080.00	5.41	-28.37	52.17%	-2.83
5100.00	5.45	-26.88	51.82%	-2.85
5120.00	5.51	-25.78	53.88%	-2.69
5140.00	4.47	-28.93	52.04%	-2.84
5160.00	3.85	-29.88	51.72%	-2.86

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Frequency (MHz)	Max Antenna Gain (dBi)	Min Antenna Gain (dBi)	Antenna Efficiency (%)	Average Gain (dBi)
5180.00	4.51	-25.10	55.96%	-2.52
5200.00	4.27	-27.70	53.26%	-2.74
5220.00	4.94	-25.92	54.53%	-2.63
5240.00	4.05	-27.20	52.07%	-2.83
5260.00	3.93	-32.97	53.25%	-2.74
5280.00	4.10	-30.55	53.59%	-2.71
5300.00	4.70	-30.20	57.83%	-2.38
5320.00	4.69	-27.02	54.85%	-2.61
5340.00	4.35	-36.23	54.36%	-2.65
5360.00	4.65	-28.96	54.12%	-2.67
5380.00	5.16	-34.83	53.24%	-2.74
5400.00	5.33	-28.44	53.97%	-2.68
5420.00	5.16	-31.68	53.63%	-2.71
5440.00	5.39	-27.63	53.93%	-2.68
5460.00	5.13	-30.39	56.31%	-2.49
5480.00	4.98	-29.64	54.61%	-2.63
5500.00	5.01	-28.07	54.46%	-2.64
5520.00	4.86	-32.58	53.75%	-2.70
5540.00	4.67	-24.81	53.16%	-2.74
5560.00	5.20	-28.24	56.50%	-2.48
5580.00	5.25	-30.96	58.19%	-2.35
5600.00	4.63	-32.54	55.11%	-2.59
5620.00	4.61	-29.83	52.40%	-2.81
5640.00	4.25	-27.72	52.20%	-2.82
5660.00	4.15	-29.27	53.25%	-2.74
5680.00	4.01	-28.10	51.71%	-2.86
5700.00	4.36	-32.18	51.98%	-2.84
5720.00	4.49	-27.45	52.15%	-2.83
5740.00	4.98	-26.04	52.16%	-2.83
5760.00	5.13	-26.63	51.98%	-2.84
5780.00	5.38	-27.57	50.79%	-2.94
5800.00	5.43	-29.50	51.28%	-2.90
5820.00	5.46	-26.55	51.82%	-2.86
5825.00	5.50	-26.48	52.68%	-2.78
5840.00	5.42	-28.51	53.10%	-2.75
5860.00	5.59	-24.98	54.89%	-2.60
5880.00	5.58	-28.86	55.43%	-2.56
5900.00	5.93	-28.98	59.16%	-2.28
5920.00	6.10	-25.41	55.25%	-2.58
5940.00	5.46	-23.81	55.95%	-2.52
5960.00	5.00	-26.84	50.23%	-2.99
5980.00	4.81	-31.54	51.90%	-2.85
6000.00	4.46	-32.40	46.22%	-3.35

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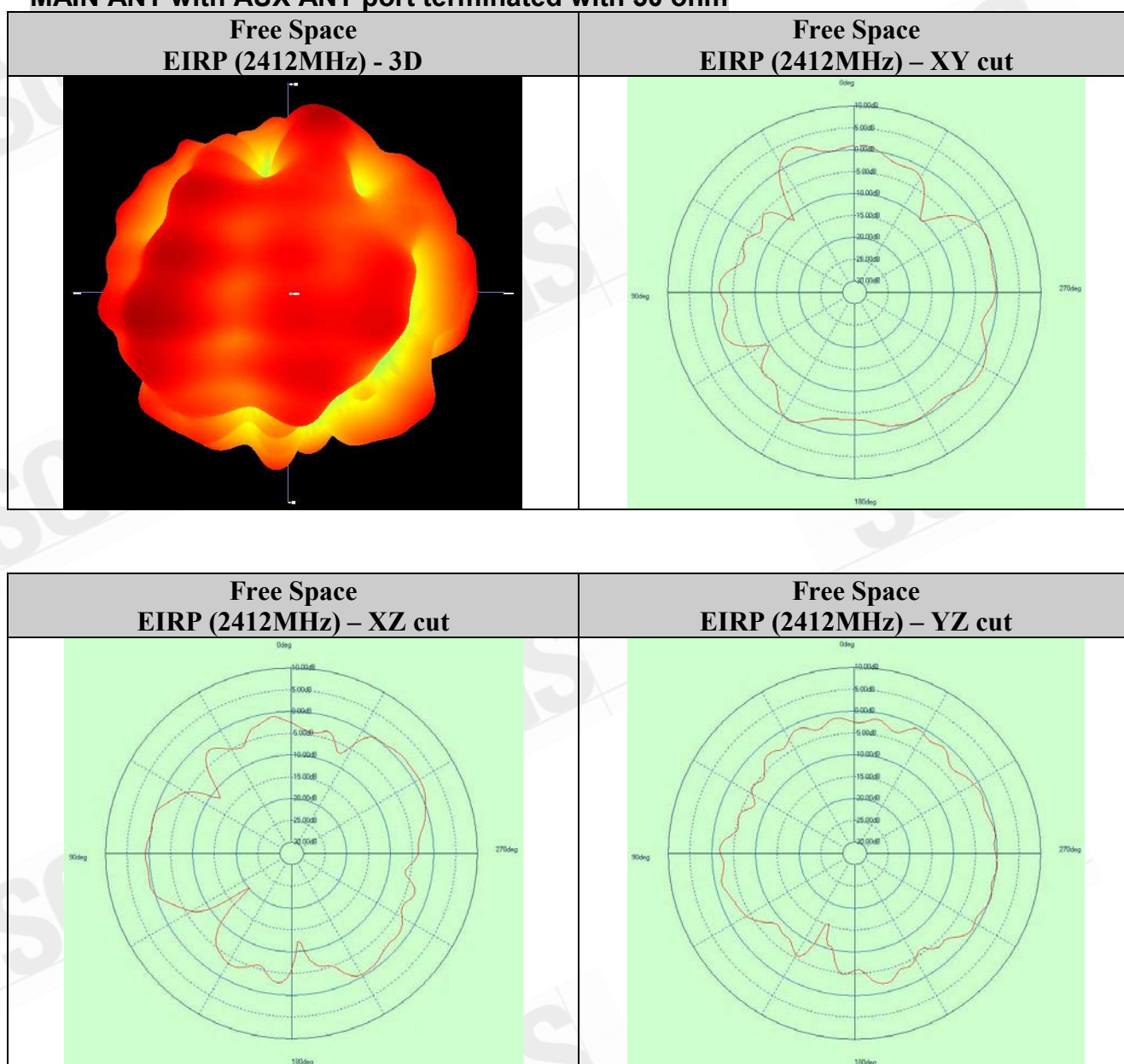
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Antenna 3D Plot Matrix

All plots in this section show the total EIRP ($EIRP_{\theta} + EIRP_{\phi}$) with the +x-axis pointing out of the page, +y-axis pointing right, and +z-axis pointing up.

MAIN ANT with AUX ANT port terminated with 50 ohm

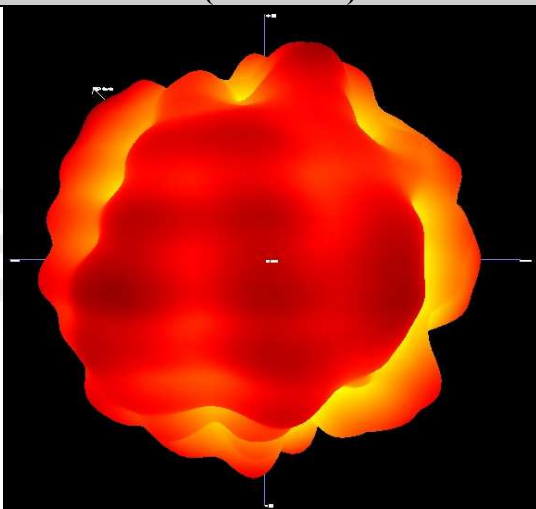


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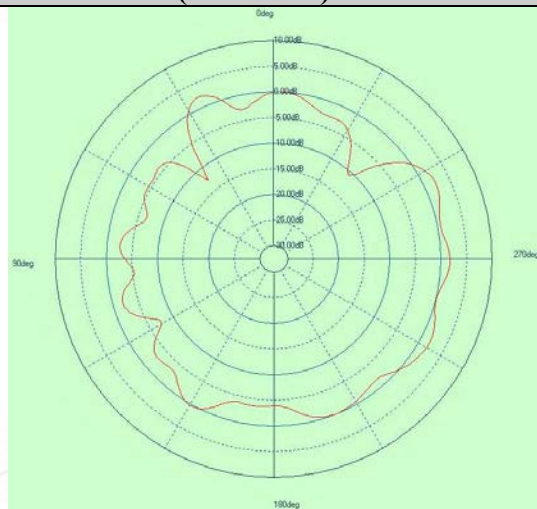
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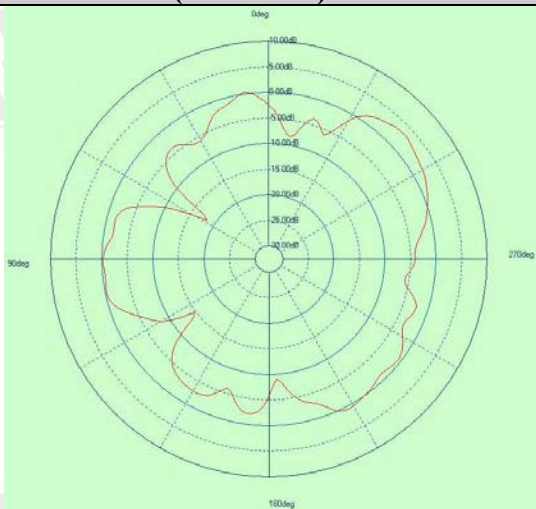
**Free Space
EIRP (2442MHz) - 3D**



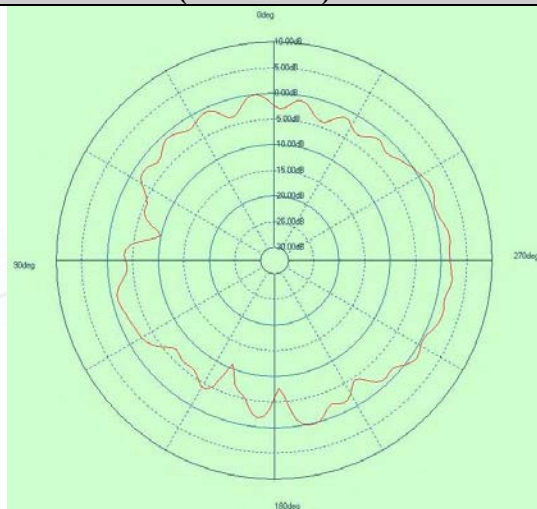
**Free Space
EIRP (2442MHz) – XY cut**



**Free Space
EIRP (2442MHz) – XZ cut**



**Free Space
EIRP (2442MHz) – YZ cut**



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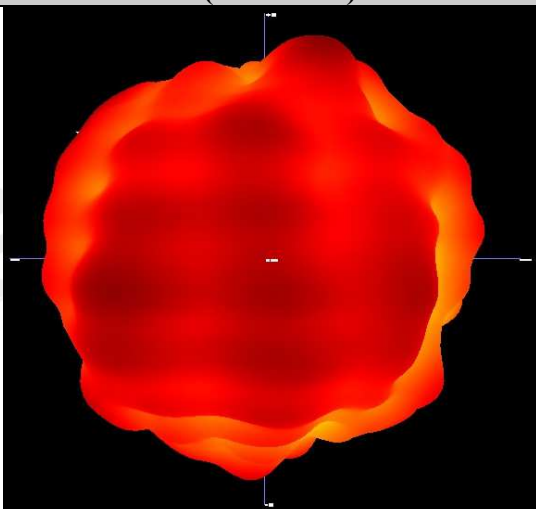
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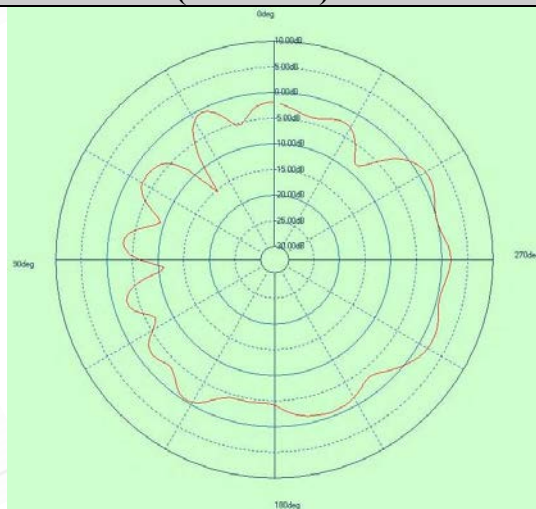
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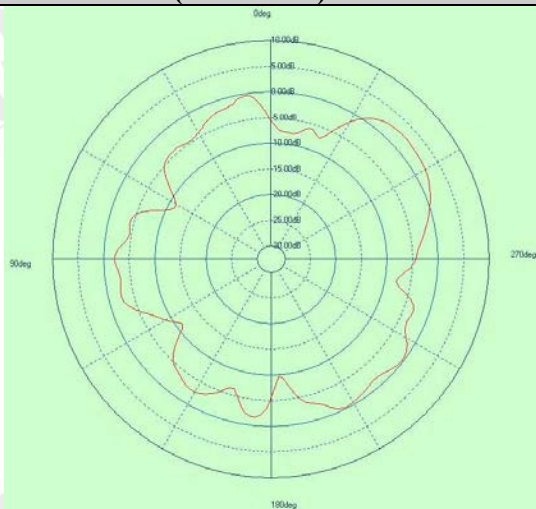
**Free Space
EIRP (2472MHz) - 3D**



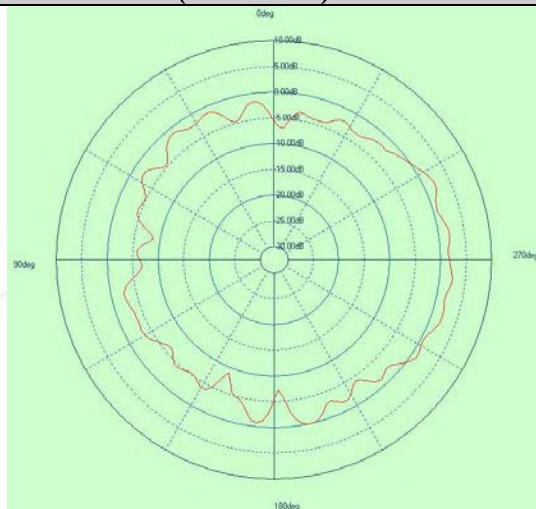
**Free Space
EIRP (2472MHz) - XY cut**



**Free Space
EIRP (2472MHz) - XZ cut**



**Free Space
EIRP (2472MHz) - YZ cut**



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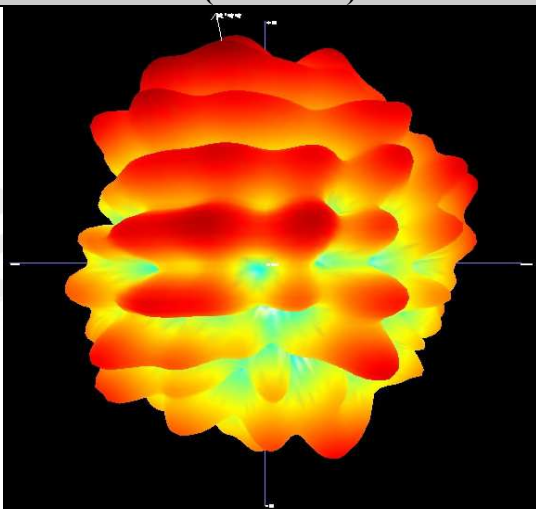
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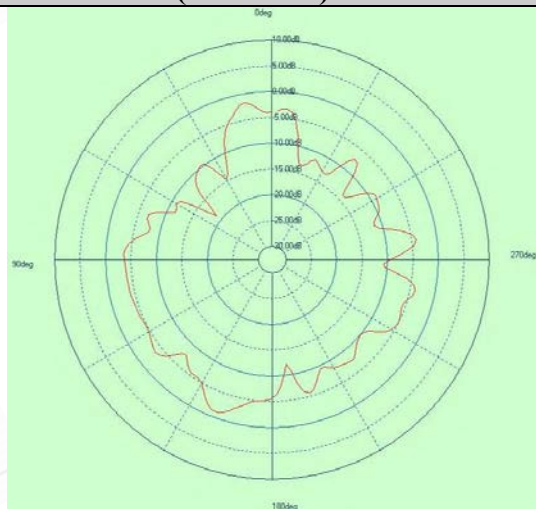
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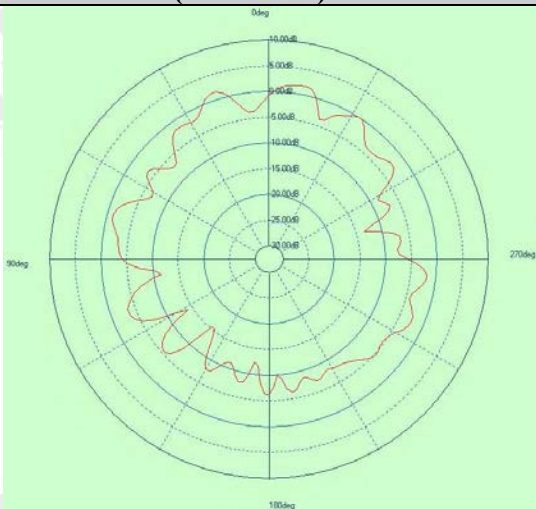
**Free Space
EIRP (5180MHz) - 3D**



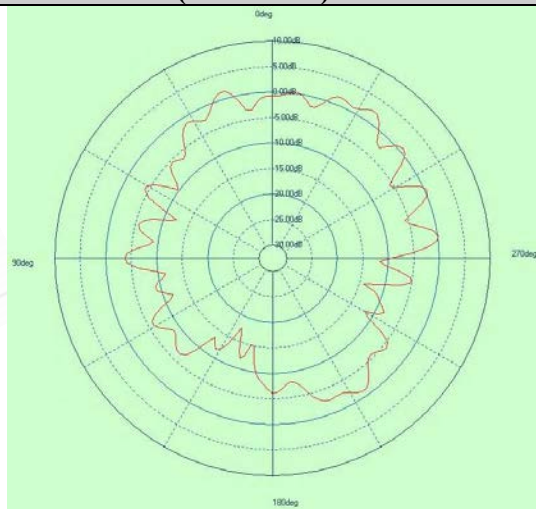
**Free Space
EIRP (5180MHz) - XY cut**



**Free Space
EIRP (5180MHz) - XZ cut**



**Free Space
EIRP (5180MHz) - YZ cut**



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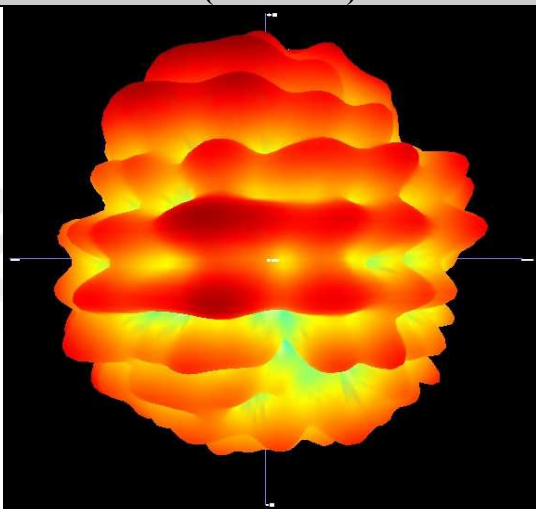
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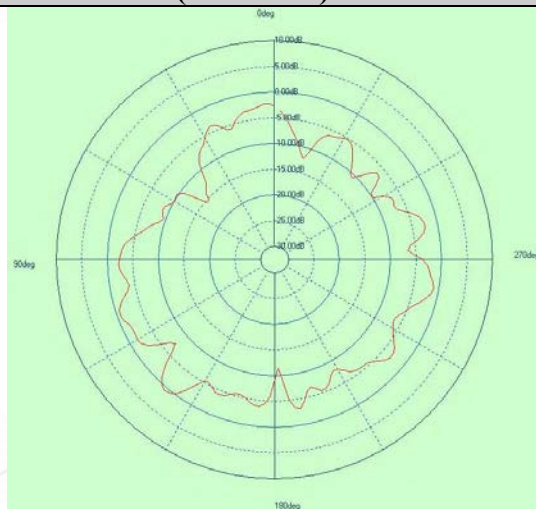
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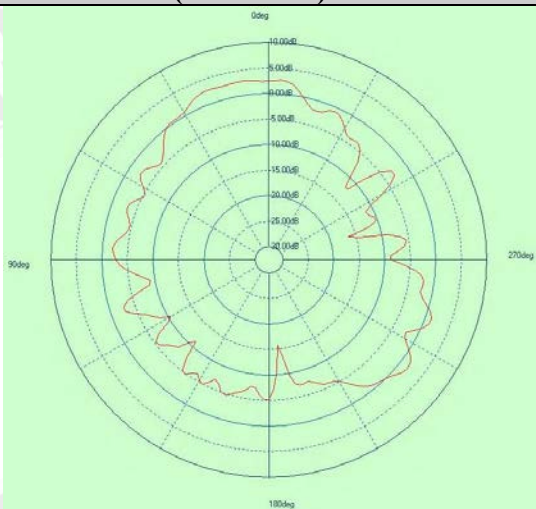
**Free Space
EIRP (5500MHz) - 3D**



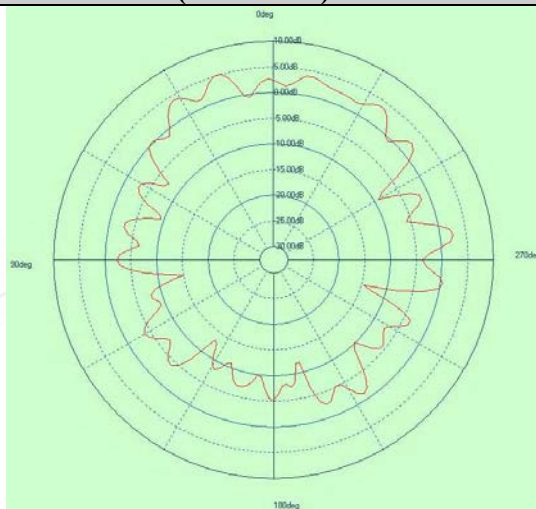
**Free Space
EIRP (5500MHz) – XY cut**



**Free Space
EIRP (5500MHz) – XZ cut**



**Free Space
EIRP (5500MHz) – YZ cut**



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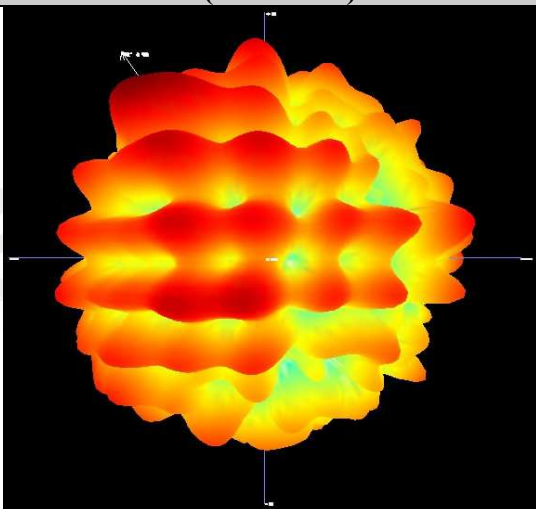
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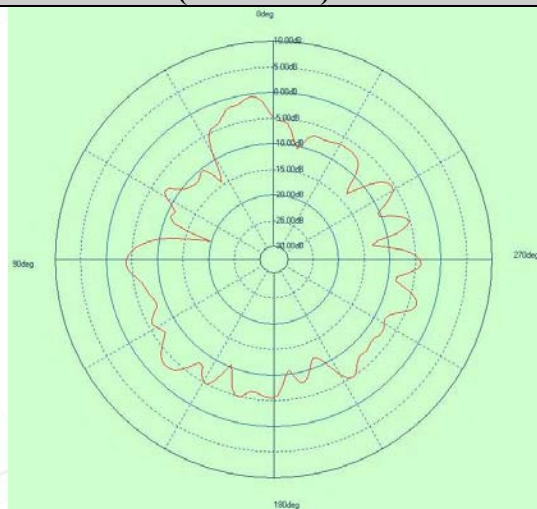
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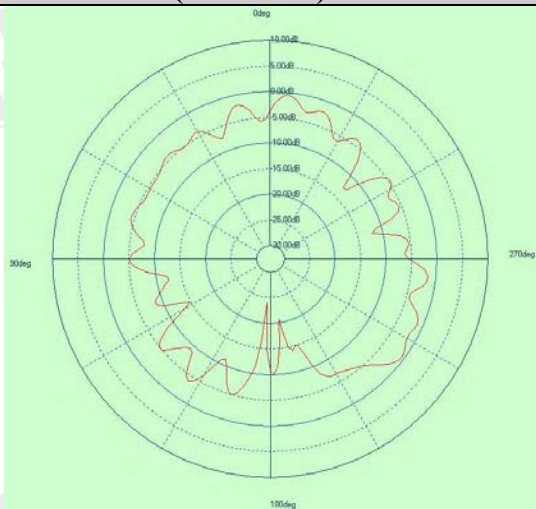
**Free Space
EIRP (5825MHz) - 3D**



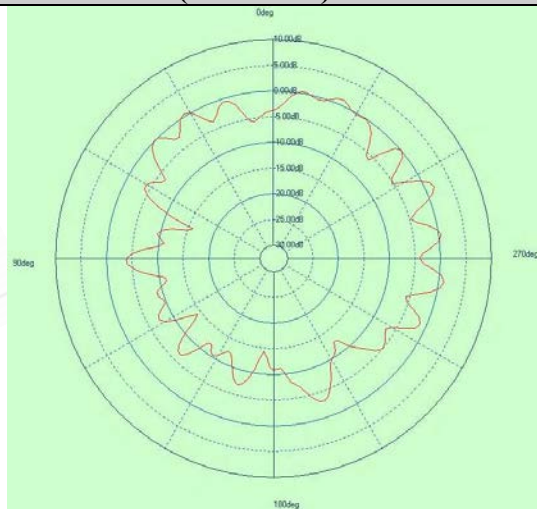
**Free Space
EIRP (5825MHz) - XY cut**



**Free Space
EIRP (5825MHz) - XZ cut**



**Free Space
EIRP (5825MHz) - YZ cut**



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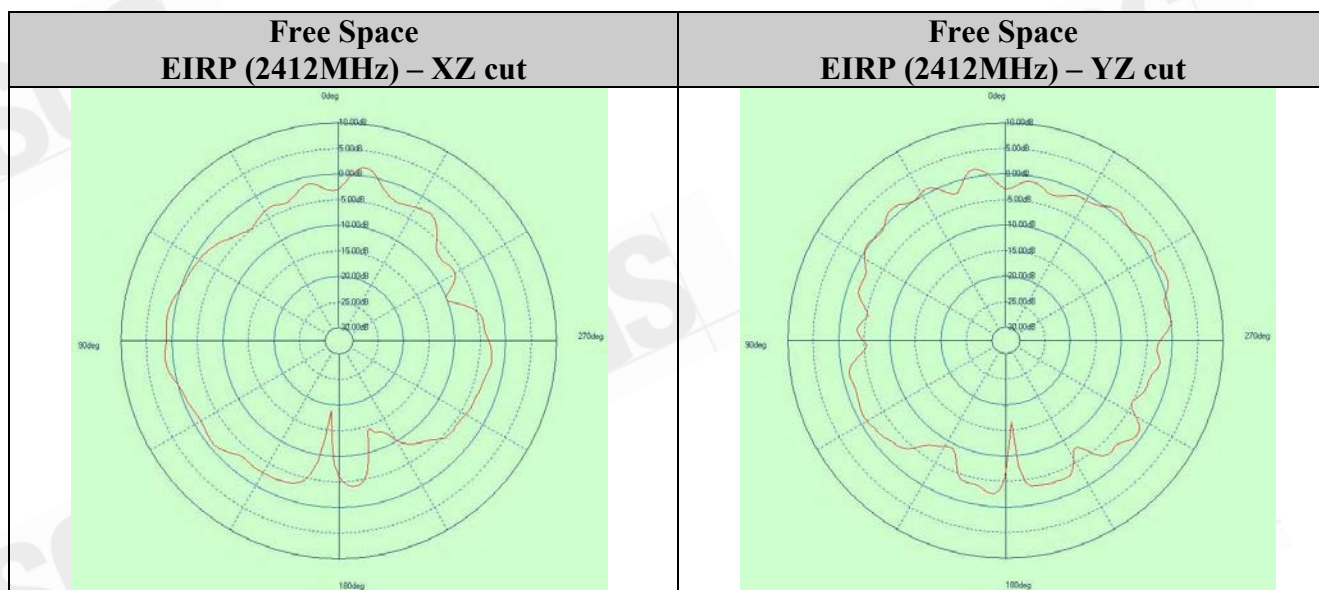
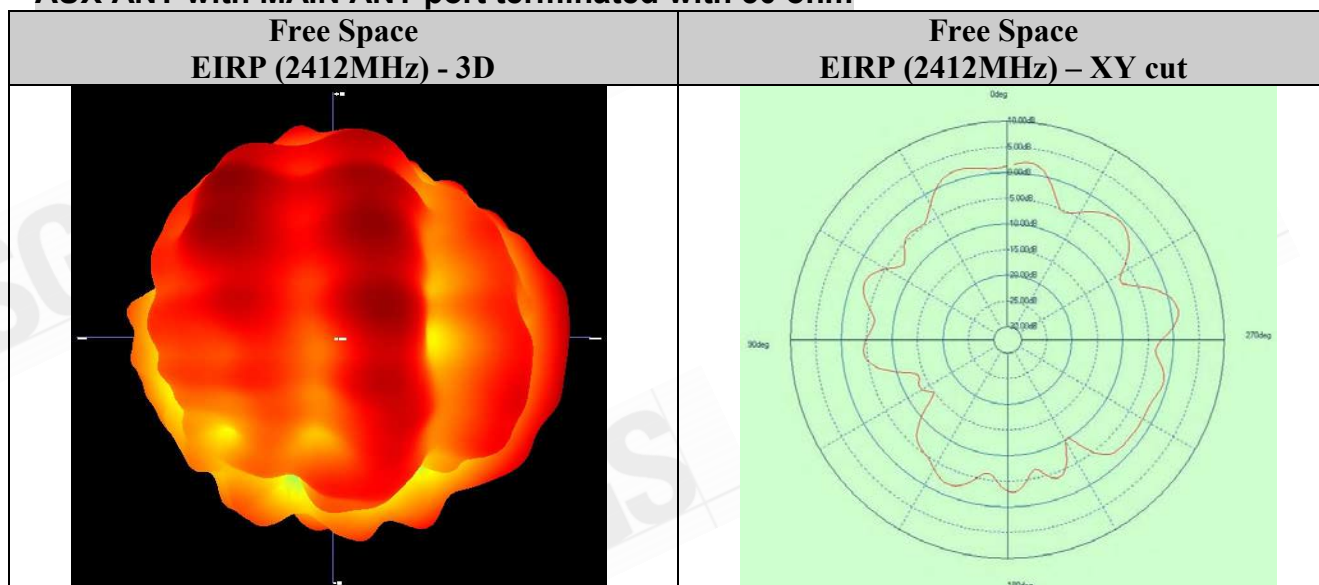
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AUX ANT with MAIN ANT port terminated with 50 ohm

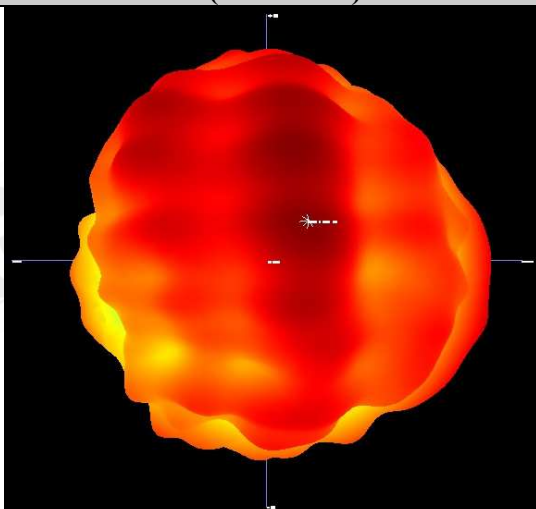


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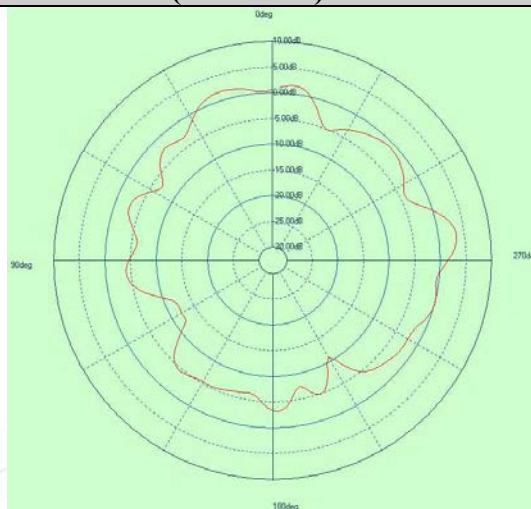
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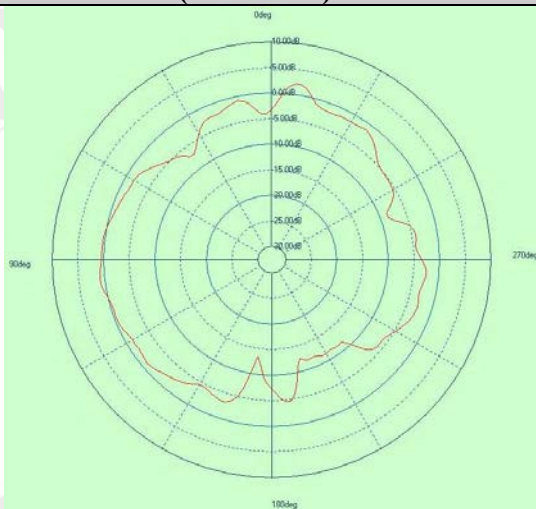
**Free Space
EIRP (2442MHz) - 3D**



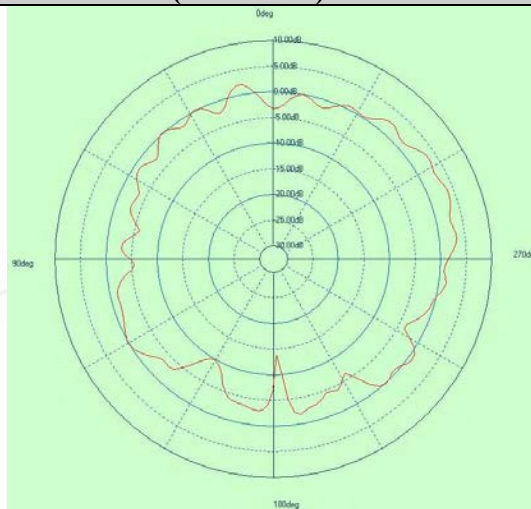
**Free Space
EIRP (2442MHz) – XY cut**



**Free Space
EIRP (2442MHz) – XZ cut**



**Free Space
EIRP (2442MHz) – YZ cut**

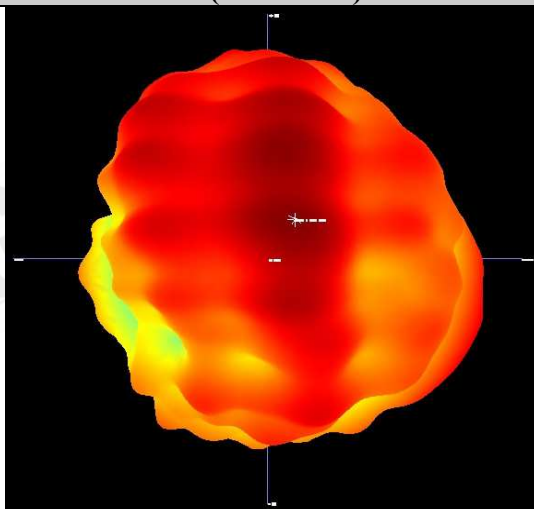


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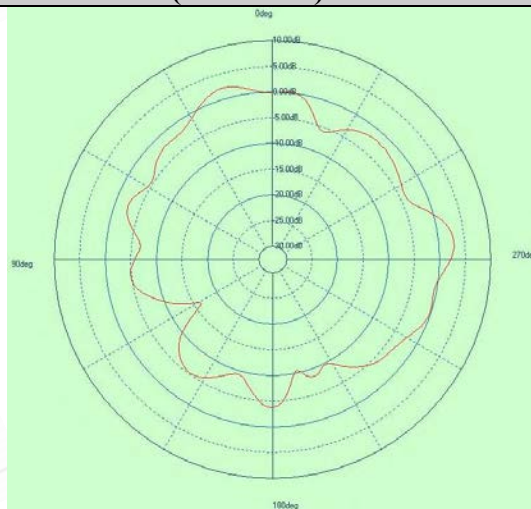
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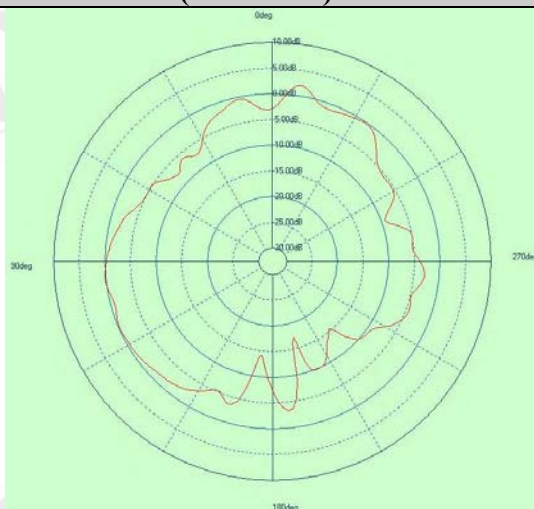
**Free Space
EIRP (2472MHz) - 3D**



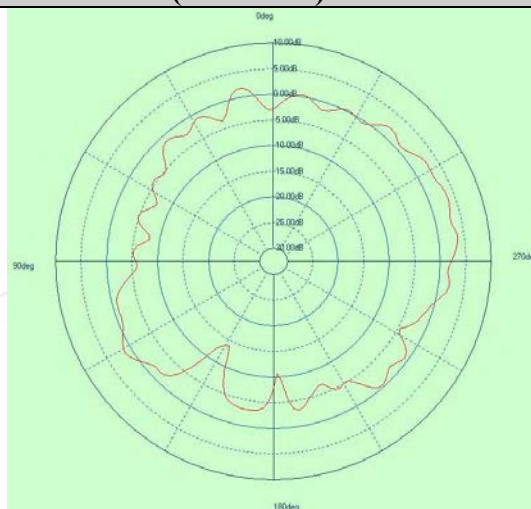
**Free Space
EIRP (2472MHz) – XY cut**



**Free Space
EIRP (2472MHz) – XZ cut**



**Free Space
EIRP (2472MHz) – YZ cut**



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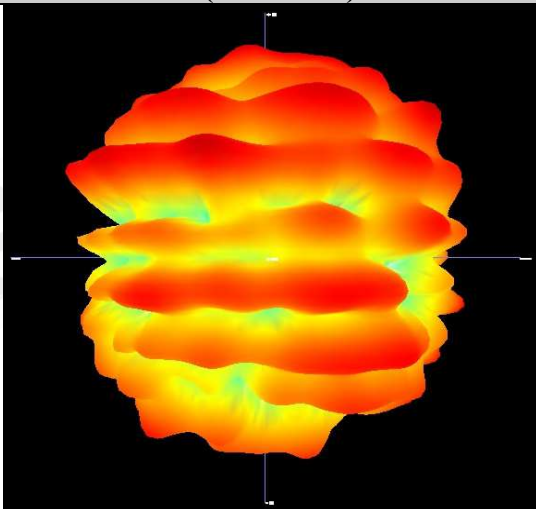
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f (886-2) 2298-0488

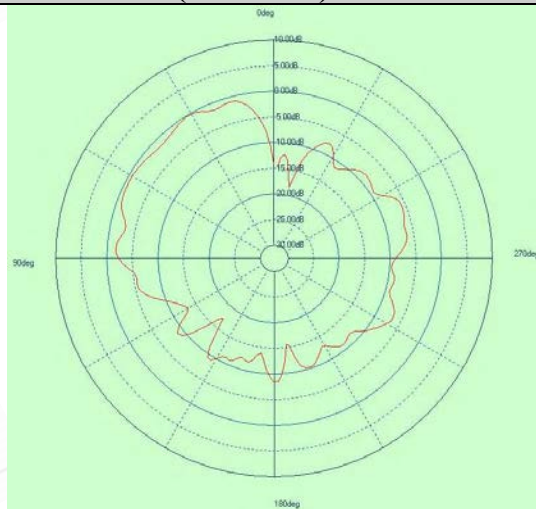
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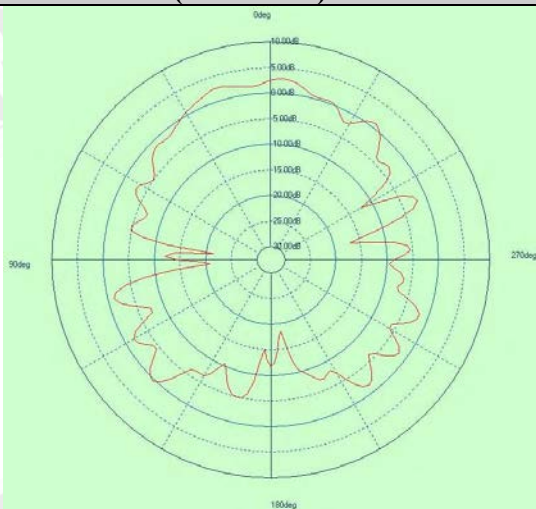
**Free Space
EIRP (5180MHz) - 3D**



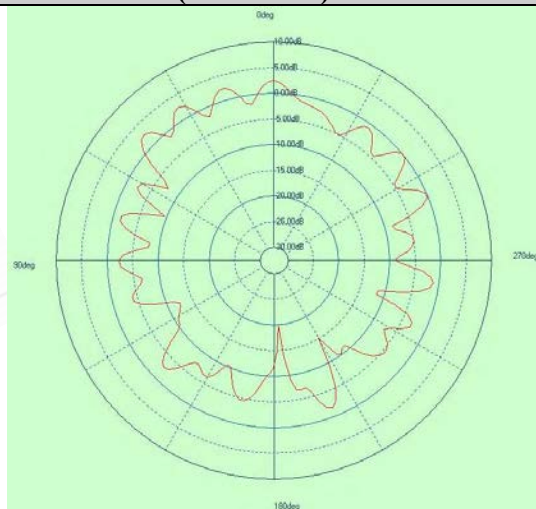
**Free Space
EIRP (5180MHz) – XY cut**



**Free Space
EIRP (5180MHz) – XZ cut**



**Free Space
EIRP (5180MHz) – YZ cut**



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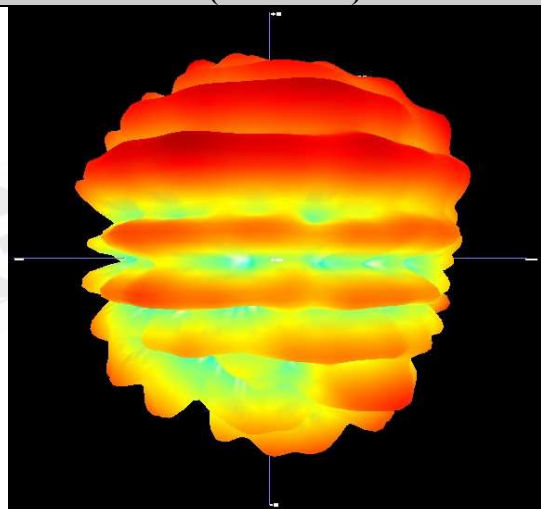
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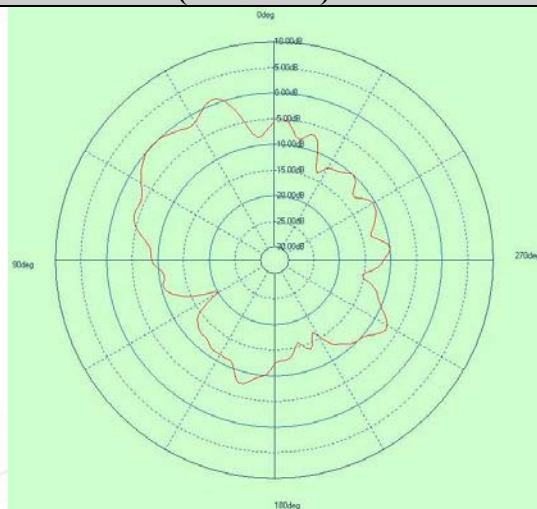
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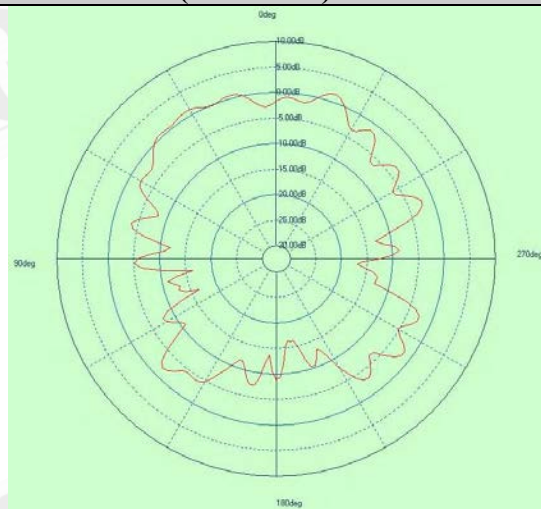
**Free Space
EIRP (5500MHz) - 3D**



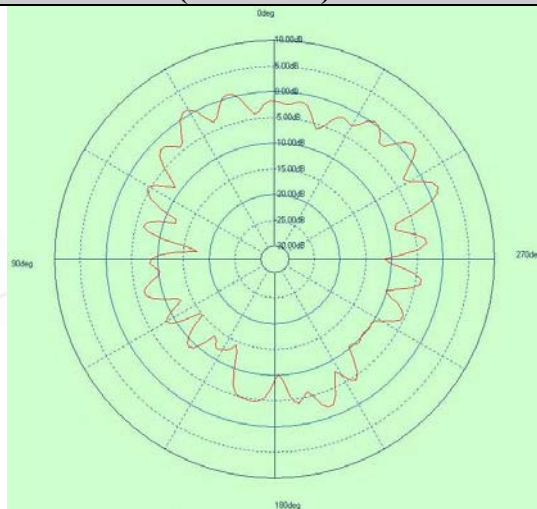
**Free Space
EIRP (5500MHz) - XY cut**



**Free Space
EIRP (5500MHz) - XZ cut**



**Free Space
EIRP (5500MHz) - YZ cut**



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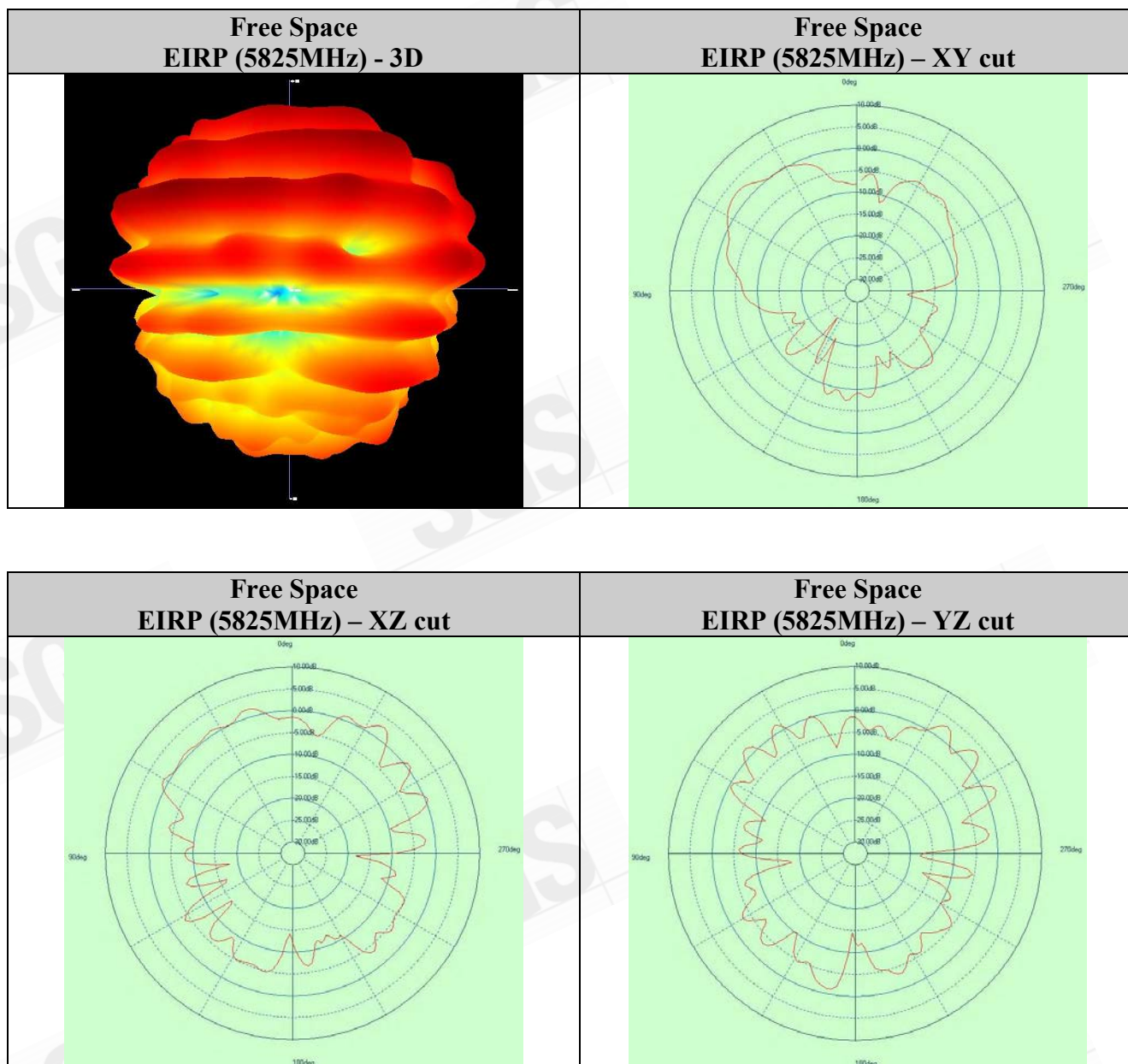
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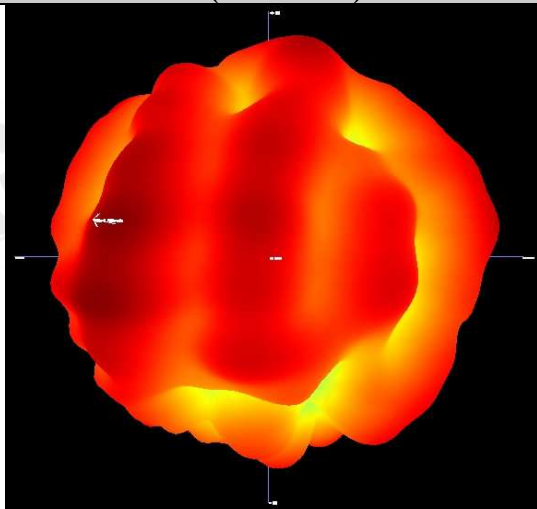
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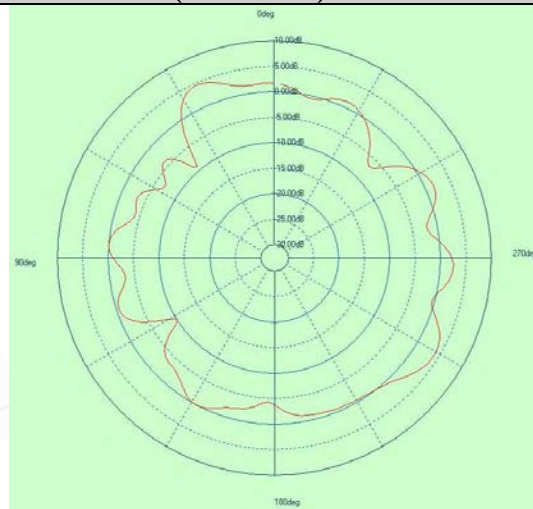
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Both MAIN and AUX ANTs

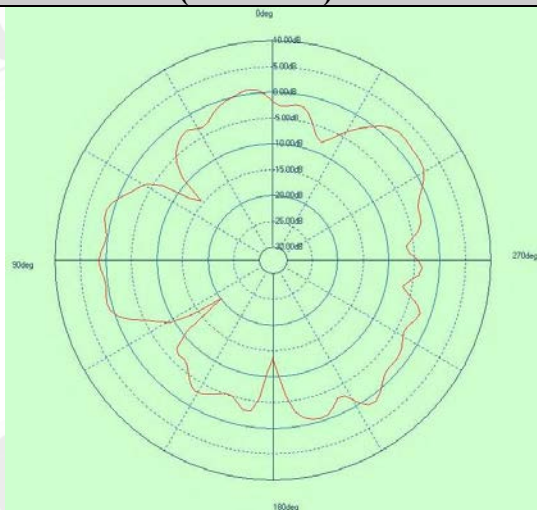
**Free Space
EIRP (2412MHz) - 3D**



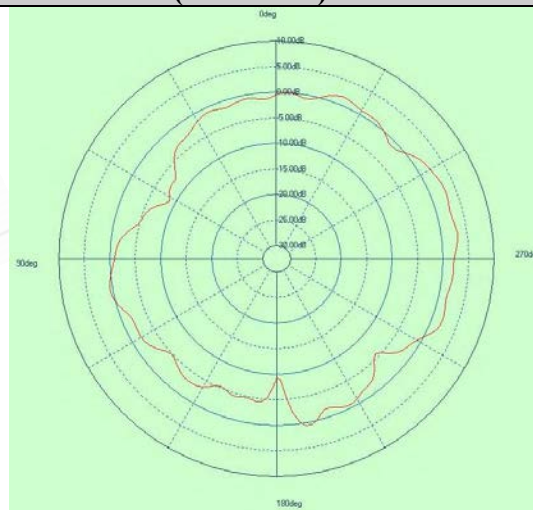
**Free Space
EIRP (2412MHz) - XY cut**



**Free Space
EIRP (2412MHz) - XZ cut**



**Free Space
EIRP (2412MHz) - YZ cut**



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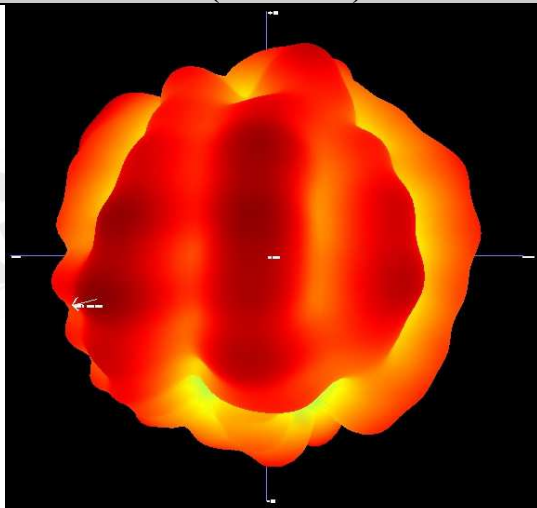
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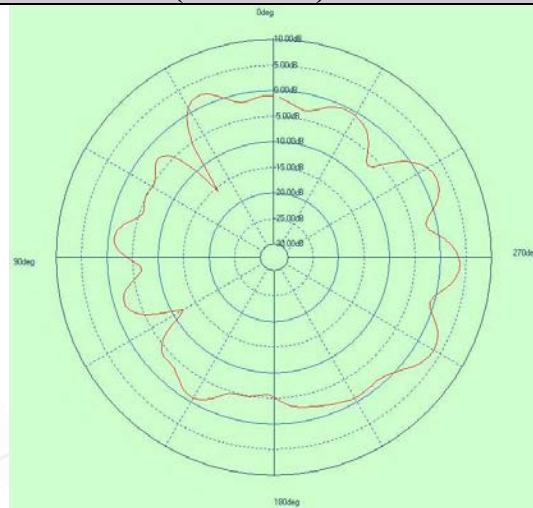
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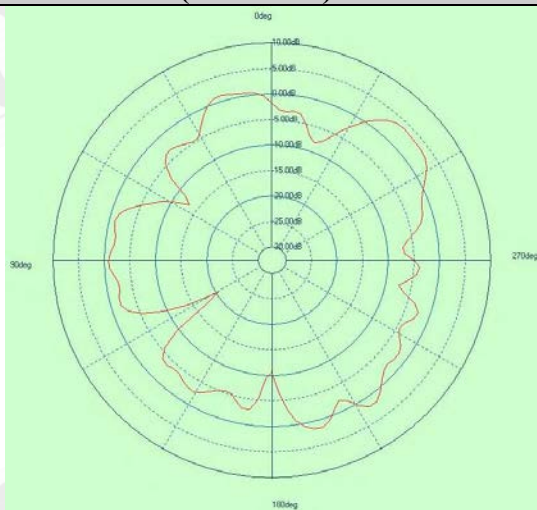
**Free Space
EIRP (2442MHz) - 3D**



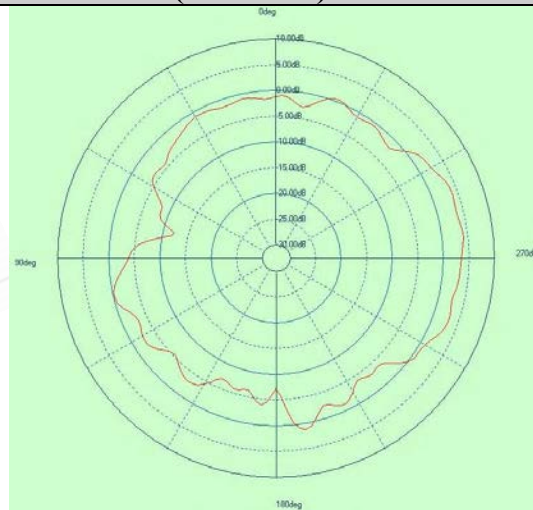
**Free Space
EIRP (2442MHz) - XY cut**



**Free Space
EIRP (2442MHz) - XZ cut**



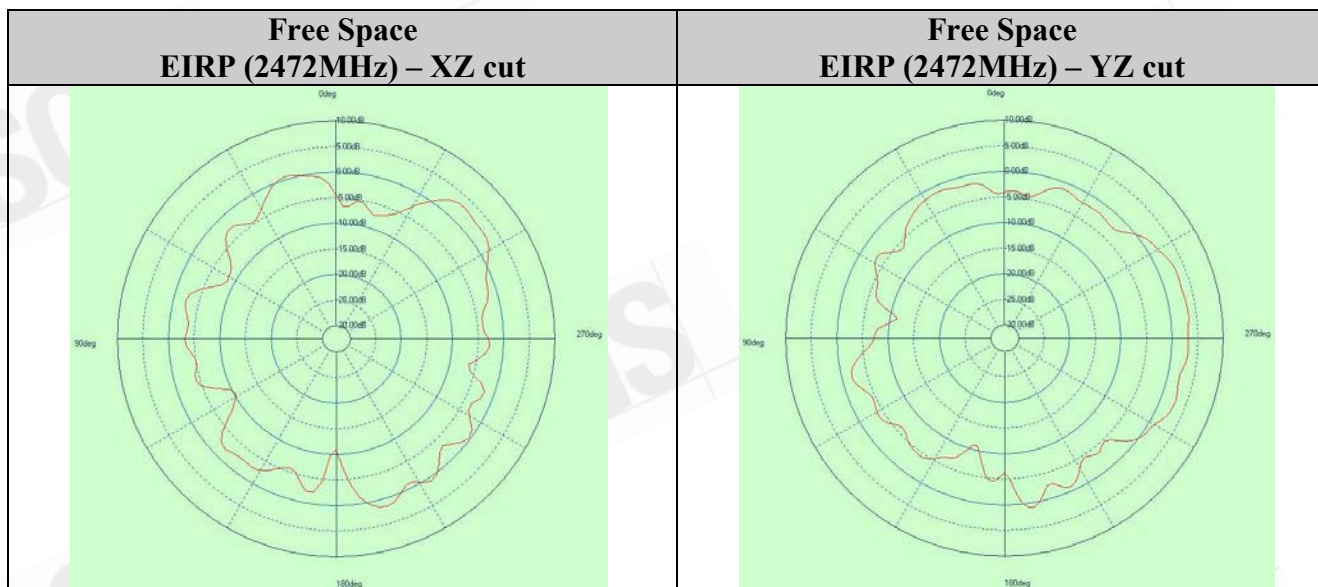
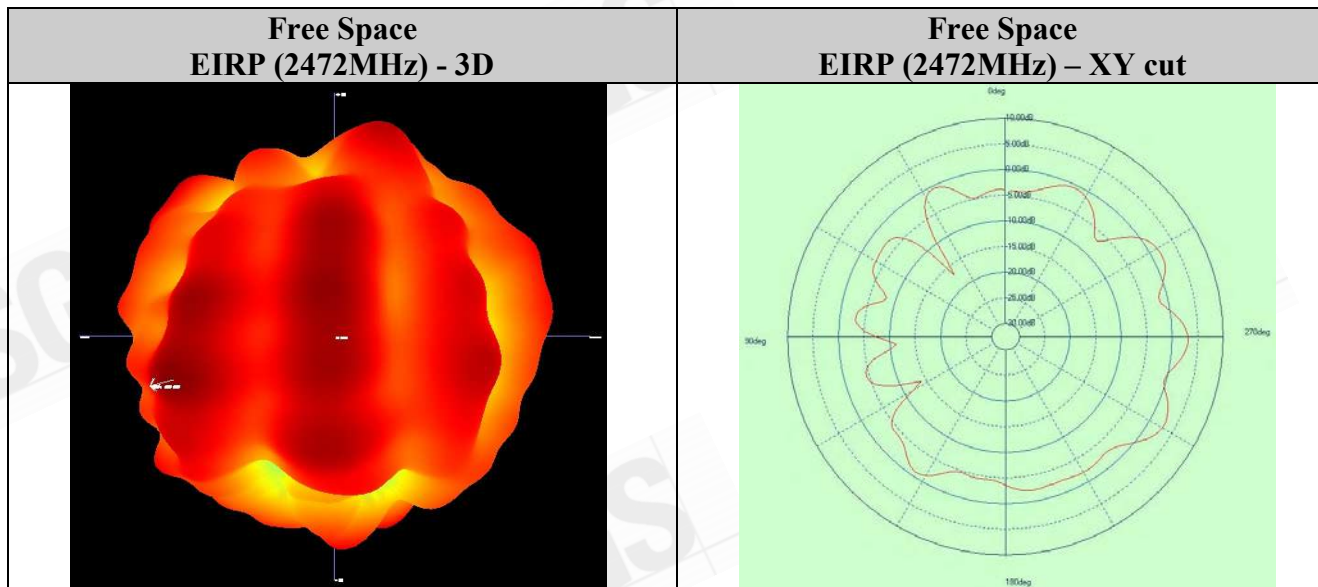
**Free Space
EIRP (2442MHz) - YZ cut**



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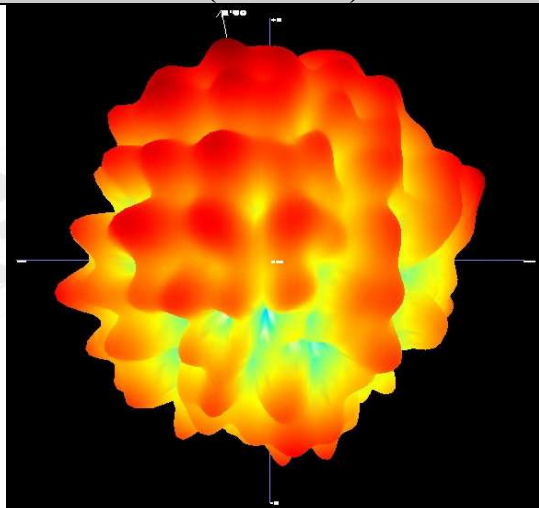


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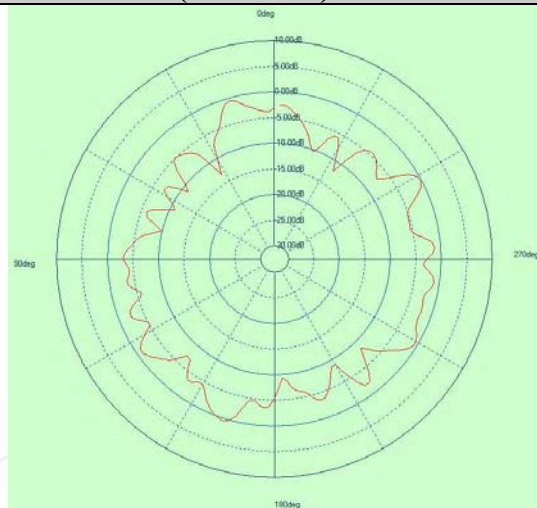
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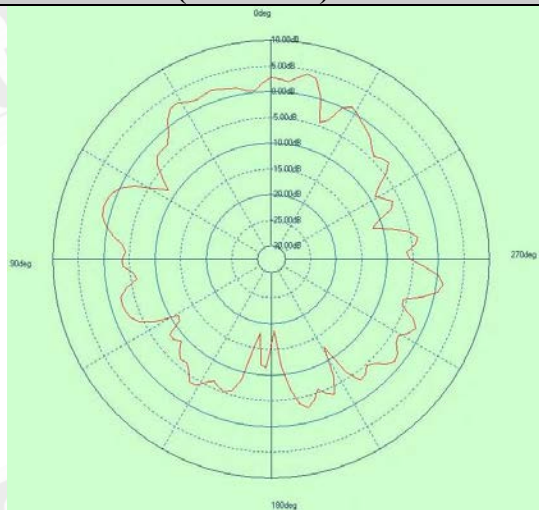
**Free Space
EIRP (5180MHz) - 3D**



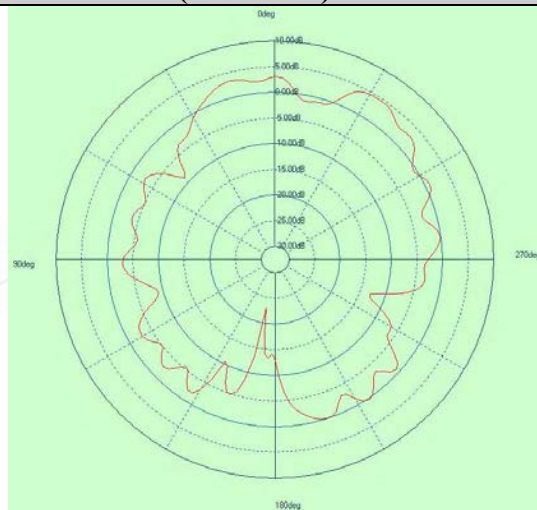
**Free Space
EIRP (5180MHz) - XY cut**



**Free Space
EIRP (5180MHz) - XZ cut**



**Free Space
EIRP (5180MHz) - YZ cut**

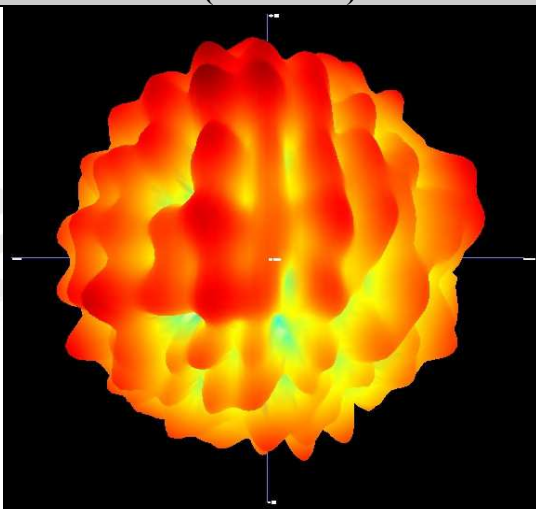


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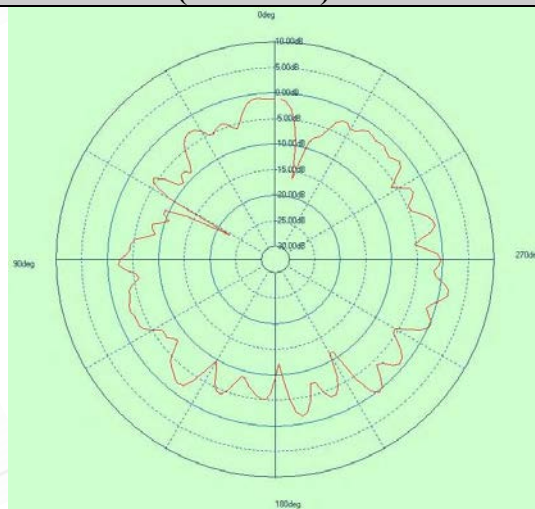
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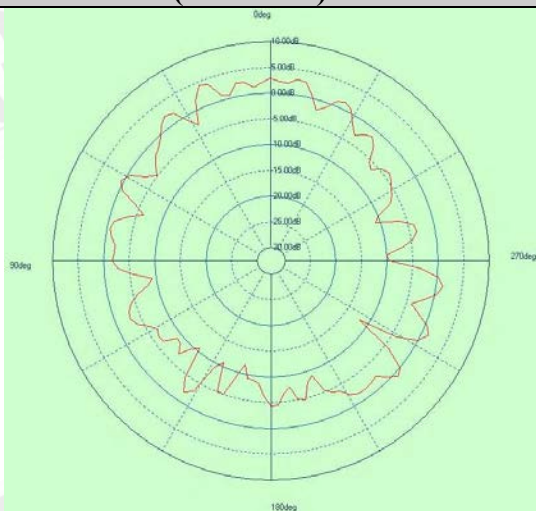
**Free Space
EIRP (5500MHz) - 3D**



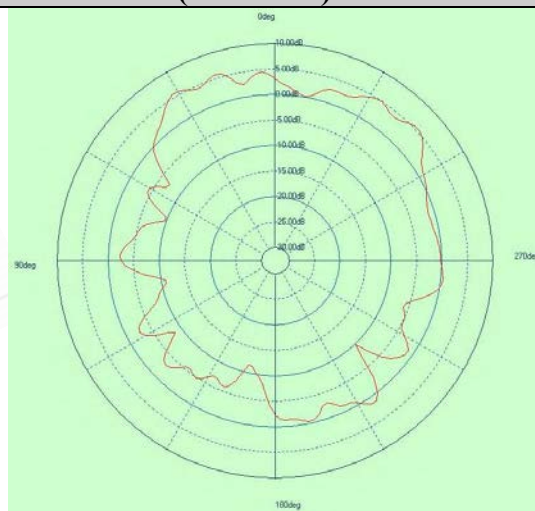
**Free Space
EIRP (5500MHz) - XY cut**



**Free Space
EIRP (5500MHz) - XZ cut**



**Free Space
EIRP (5500MHz) - YZ cut**



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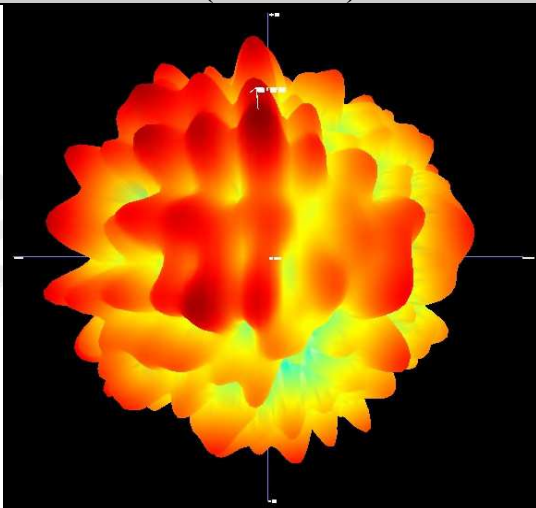
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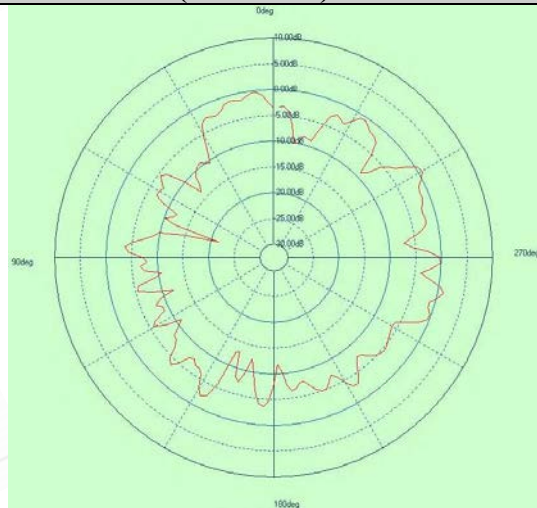
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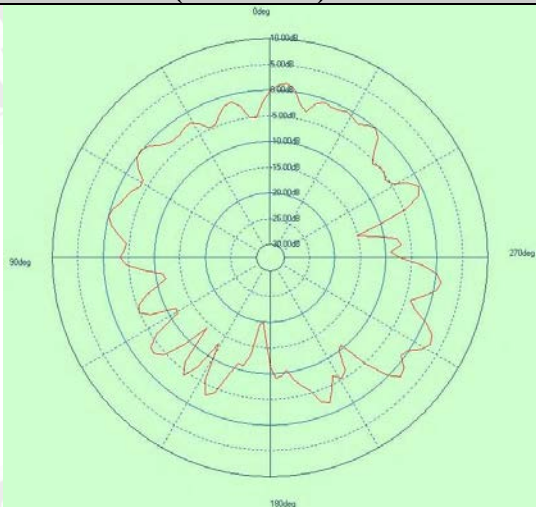
**Free Space
EIRP (5825MHz) - 3D**



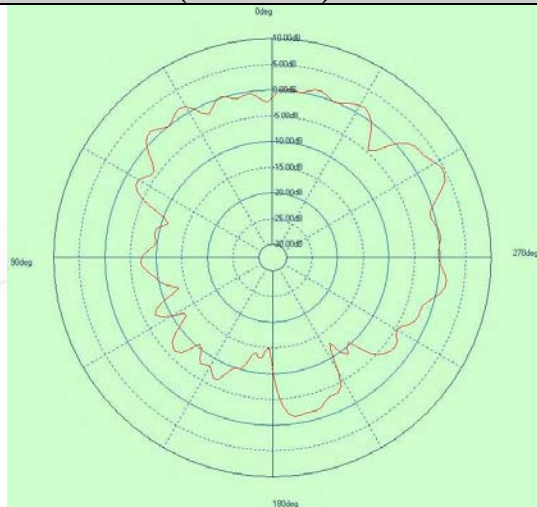
**Free Space
EIRP (5825MHz) - XY cut**



**Free Space
EIRP (5825MHz) - XZ cut**



**Free Space
EIRP (5825MHz) - YZ cut**



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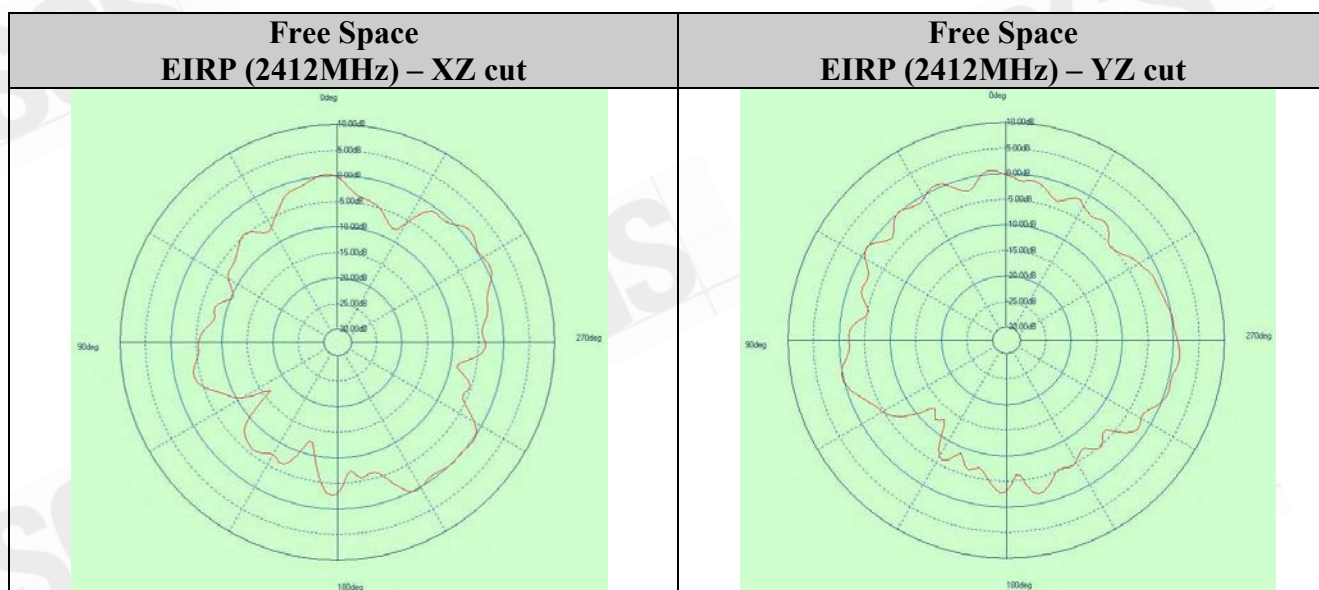
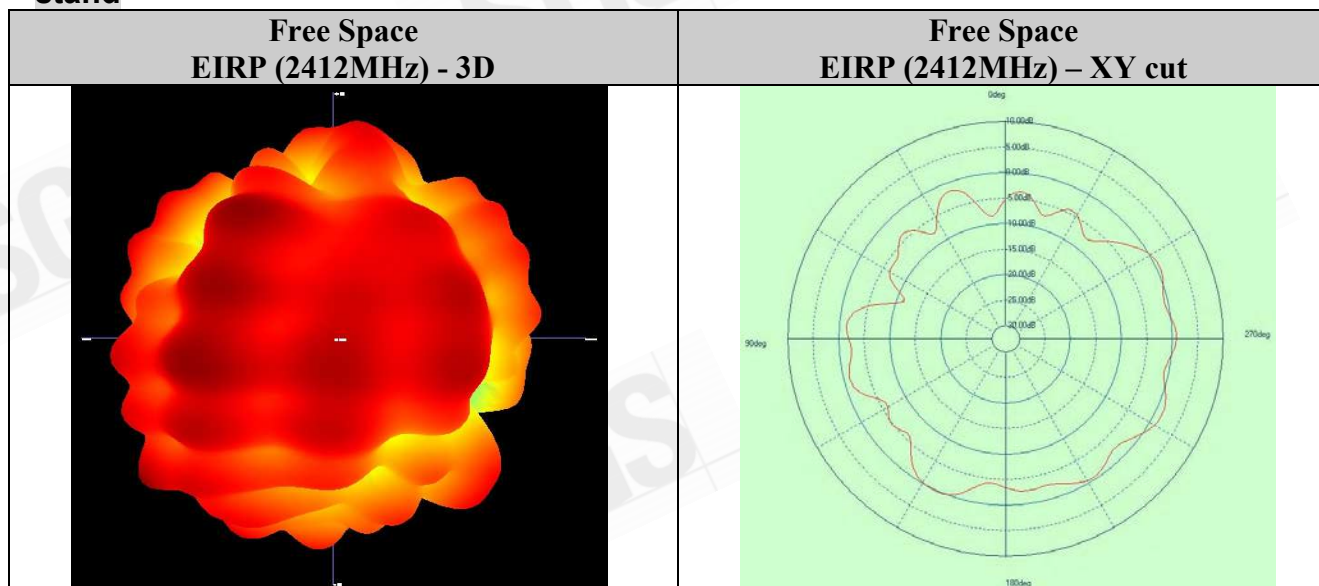
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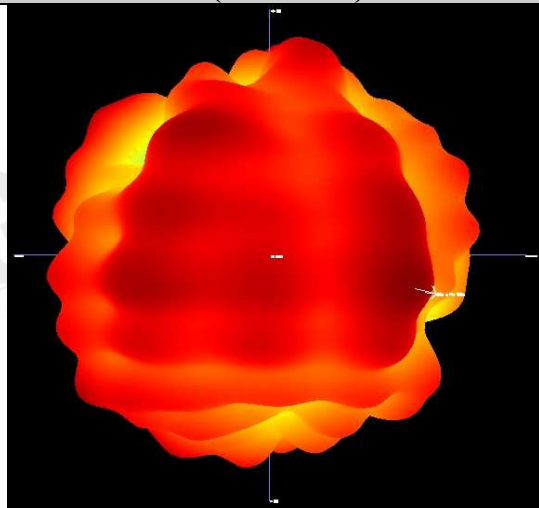


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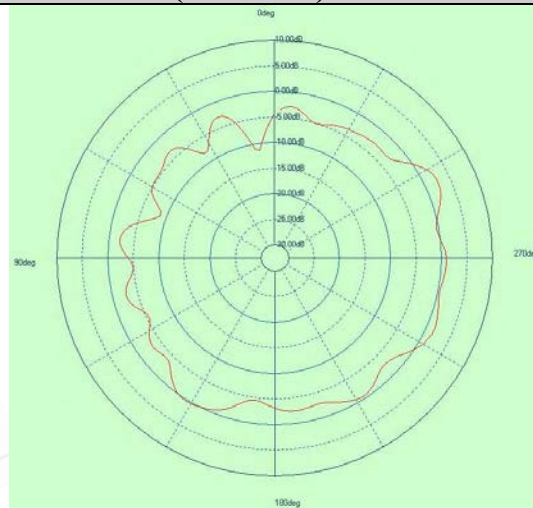
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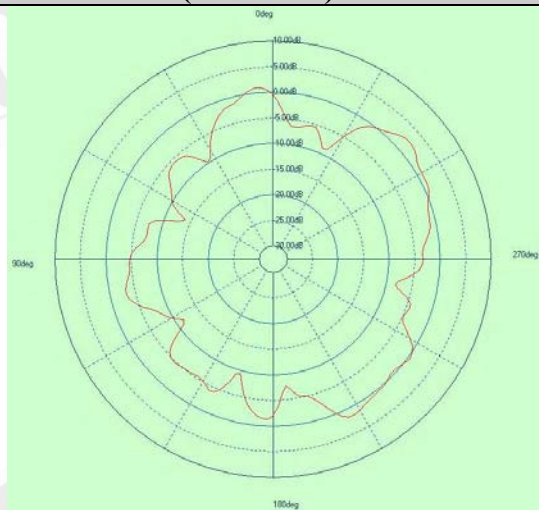
**Free Space
EIRP (2442MHz) - 3D**



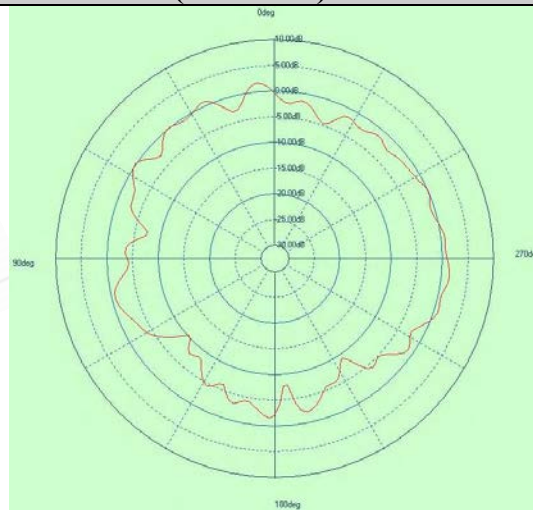
**Free Space
EIRP (2442MHz) - XY cut**



**Free Space
EIRP (2442MHz) - XZ cut**



**Free Space
EIRP (2442MHz) - YZ cut**



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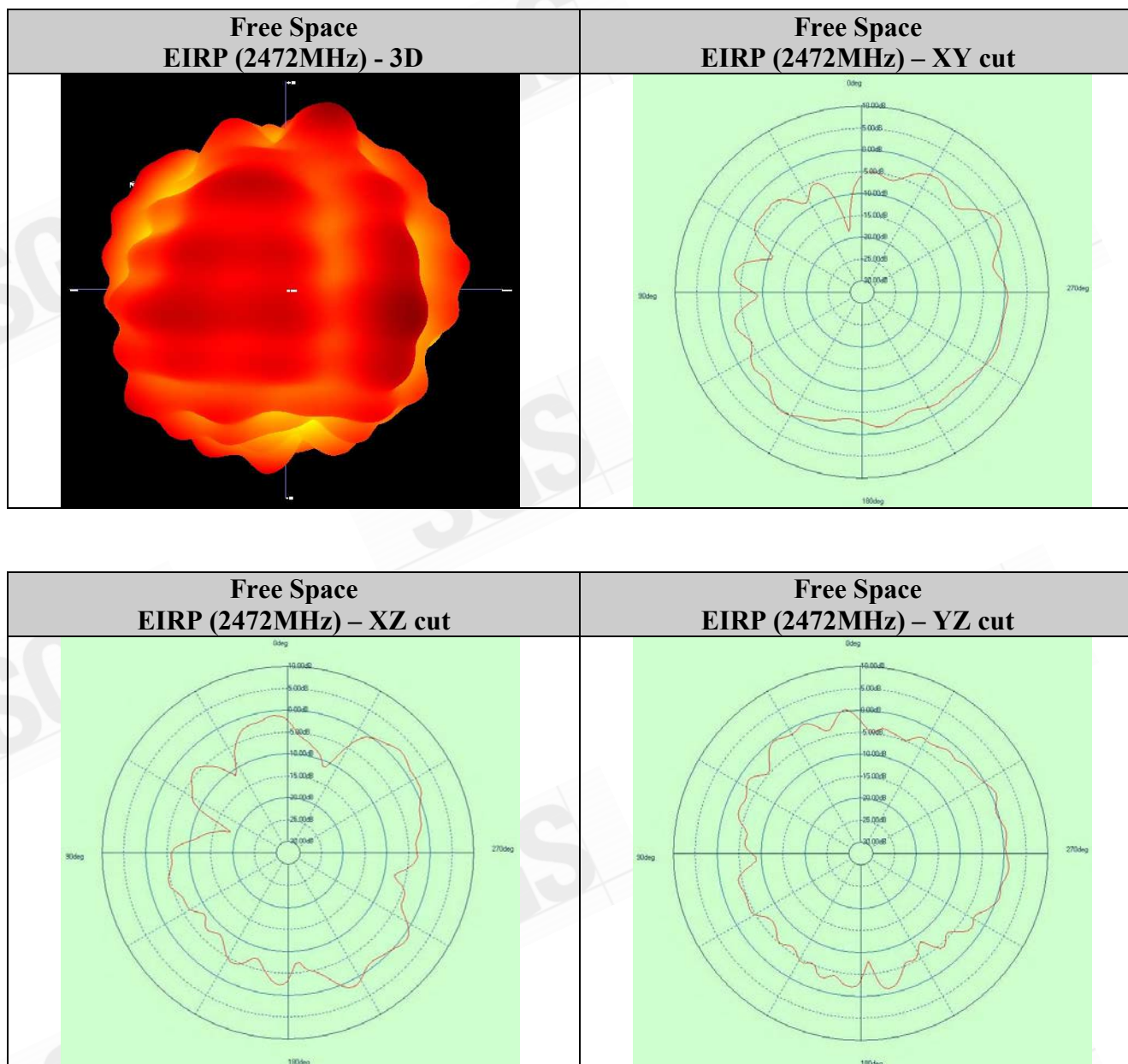
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803/新北市五股區新北產業園區五工路 134 號

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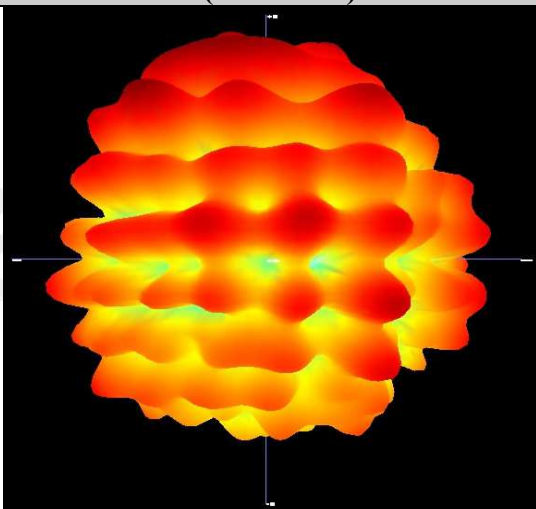


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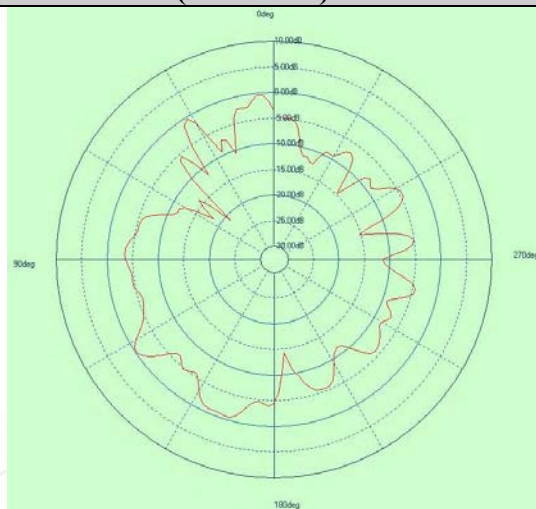
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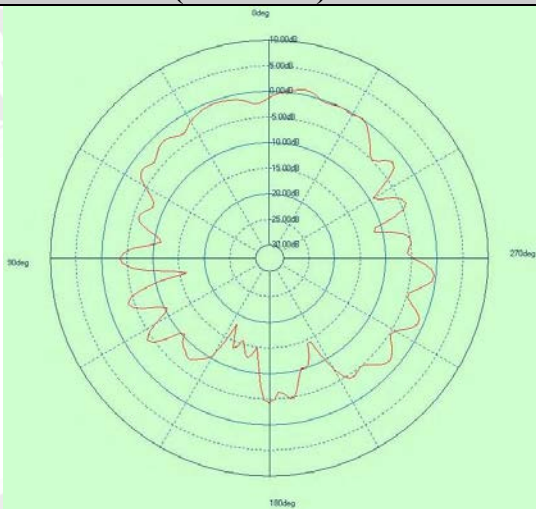
**Free Space
EIRP (5180MHz) - 3D**



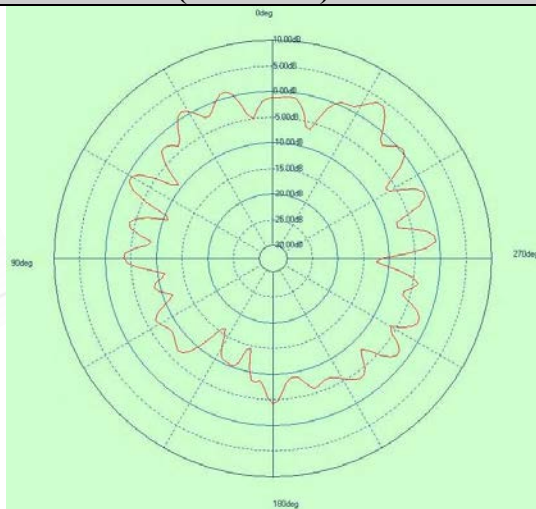
**Free Space
EIRP (5180MHz) - XY cut**



**Free Space
EIRP (5180MHz) - XZ cut**



**Free Space
EIRP (5180MHz) - YZ cut**



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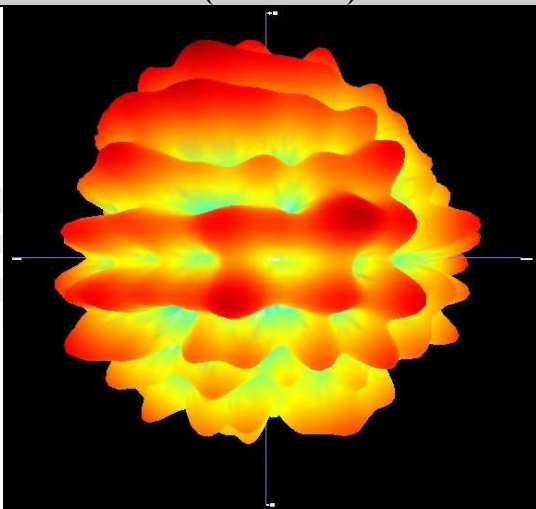
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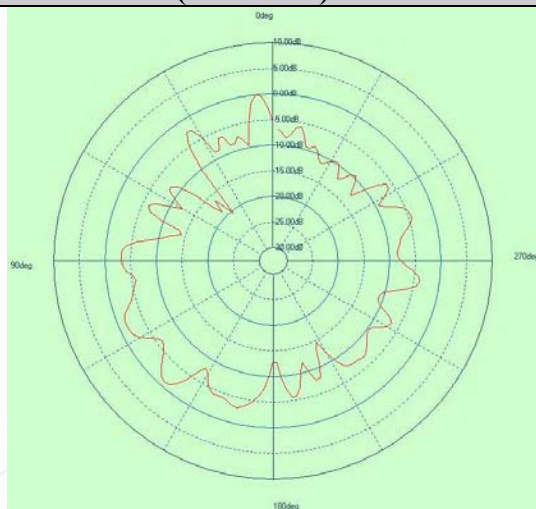
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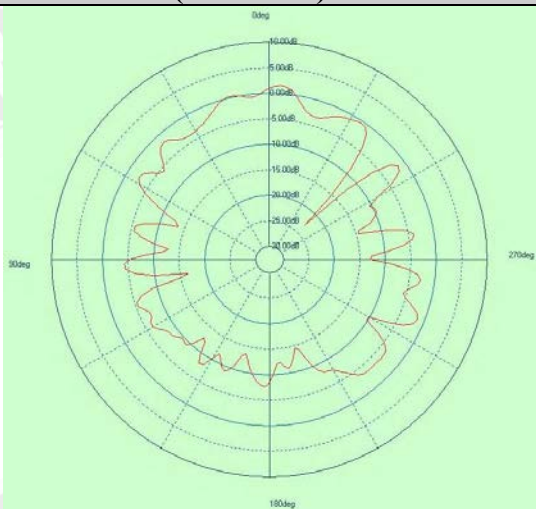
**Free Space
EIRP (5500MHz) - 3D**



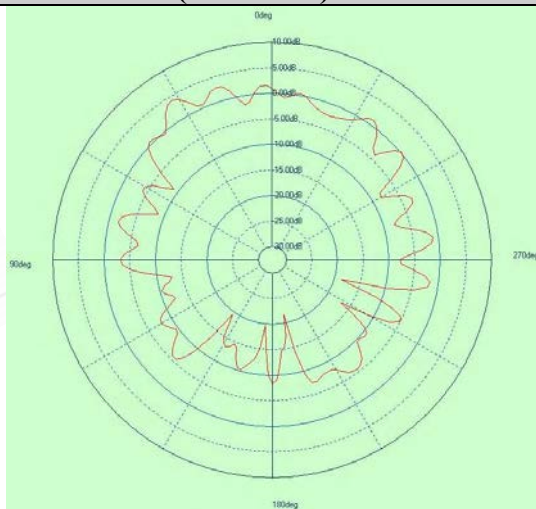
**Free Space
EIRP (5500MHz) - XY cut**



**Free Space
EIRP (5500MHz) - XZ cut**



**Free Space
EIRP (5500MHz) - YZ cut**



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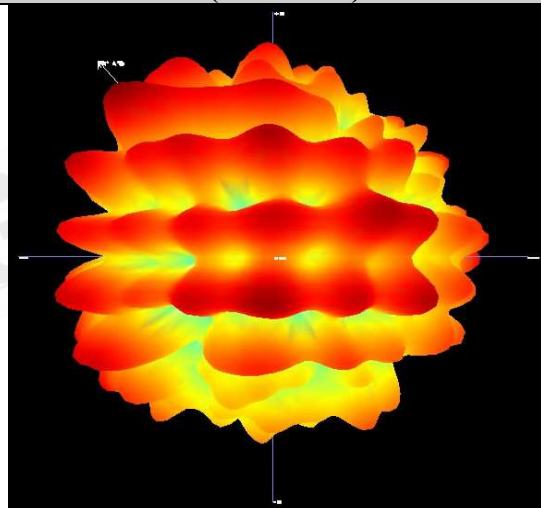
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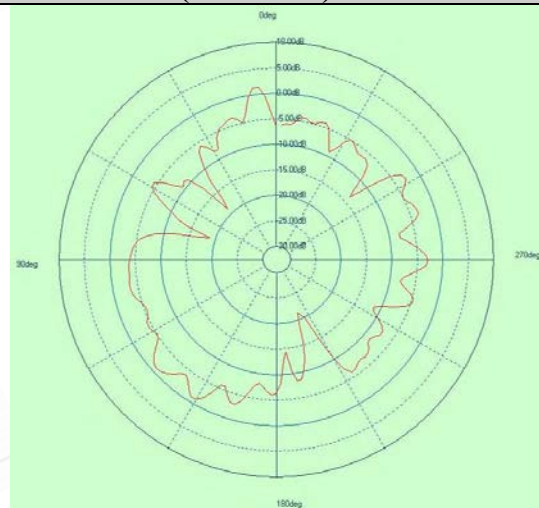
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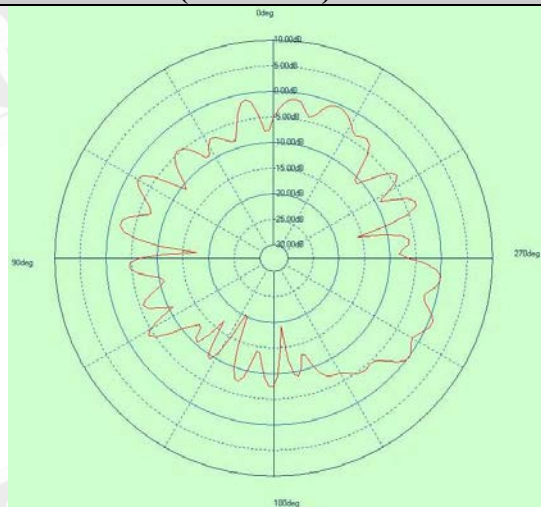
**Free Space
EIRP (5825MHz) - 3D**



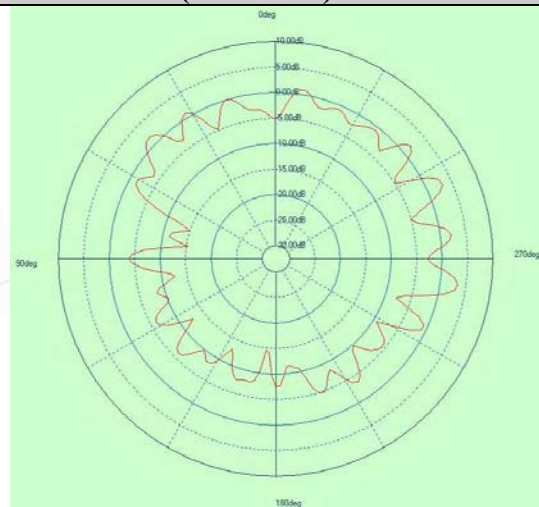
**Free Space
EIRP (5825MHz) - XY cut**



**Free Space
EIRP (5825MHz) - XZ cut**



**Free Space
EIRP (5825MHz) - YZ cut**



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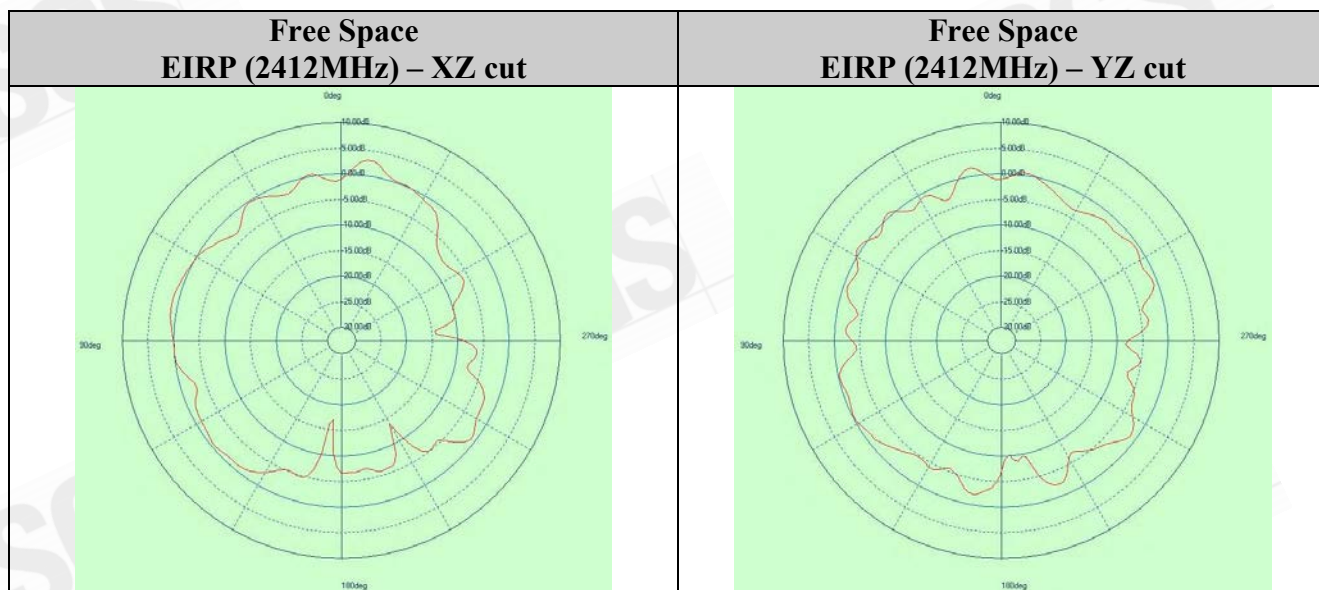
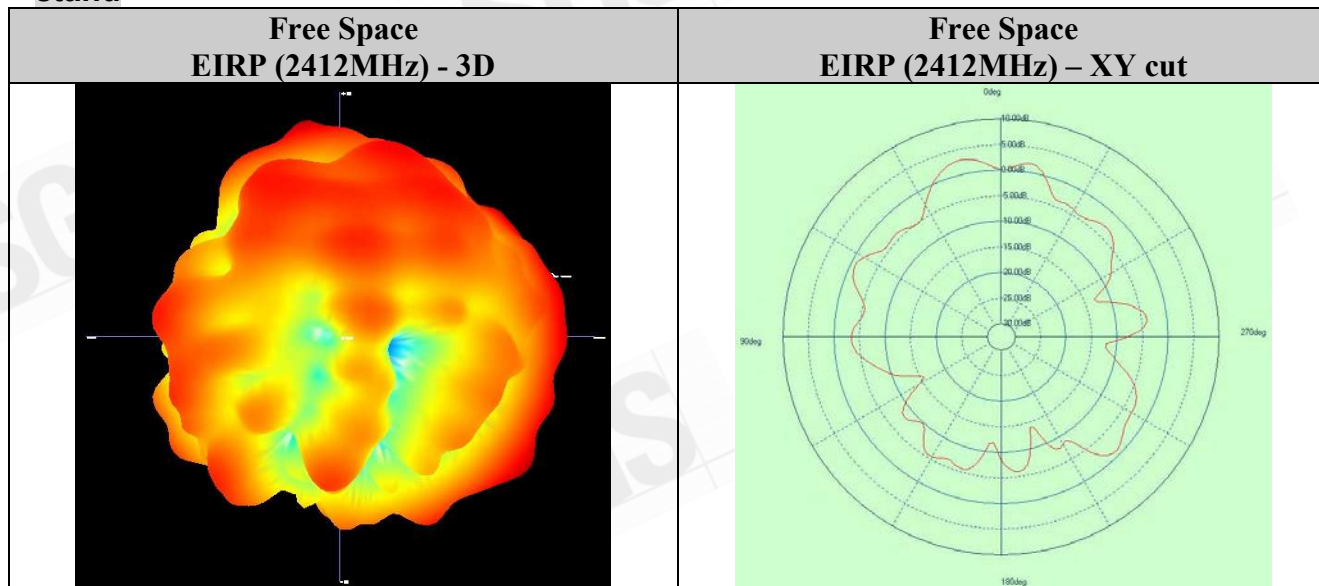
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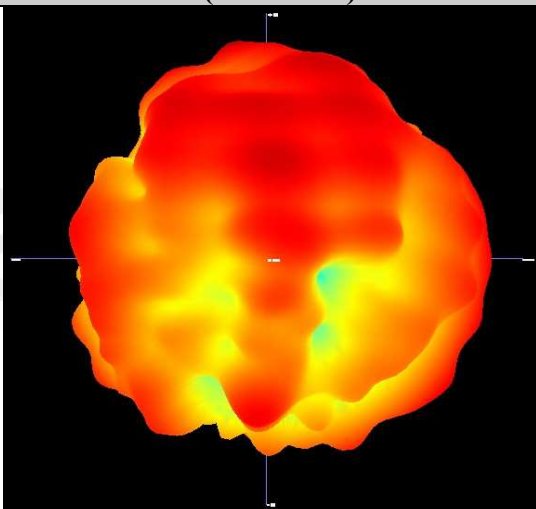


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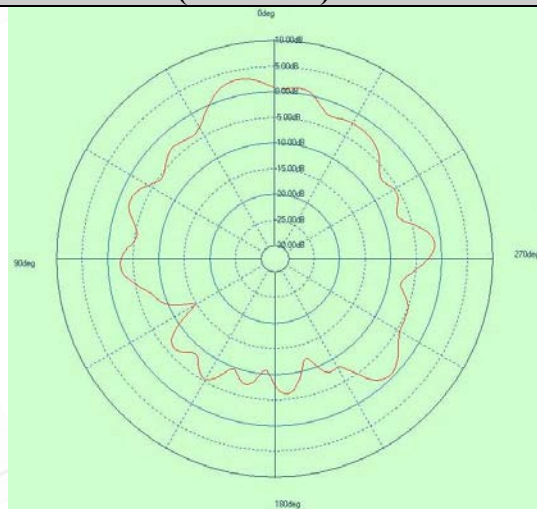
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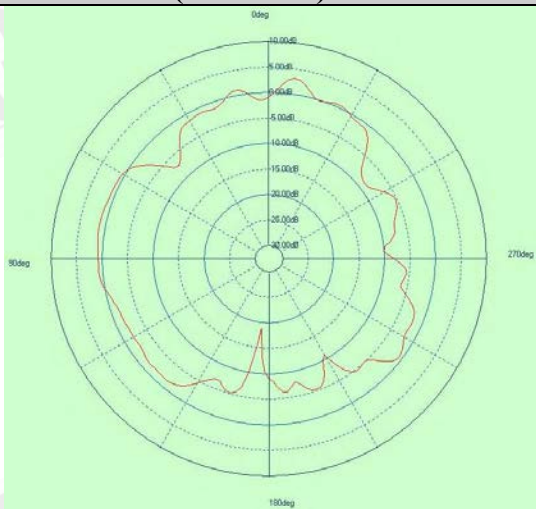
**Free Space
EIRP (2442MHz) - 3D**



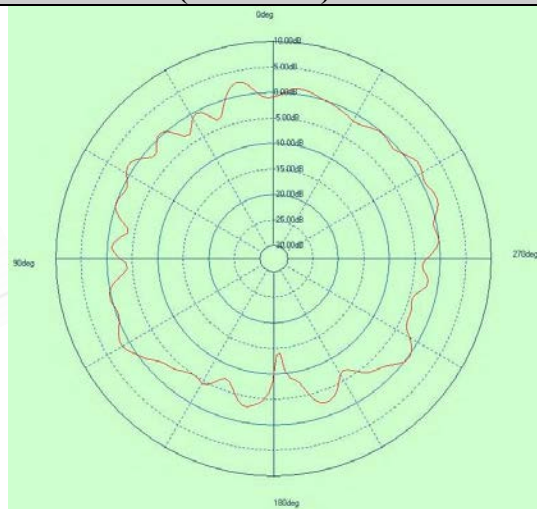
**Free Space
EIRP (2442MHz) – XY cut**



**Free Space
EIRP (2442MHz) – XZ cut**



**Free Space
EIRP (2442MHz) – YZ cut**



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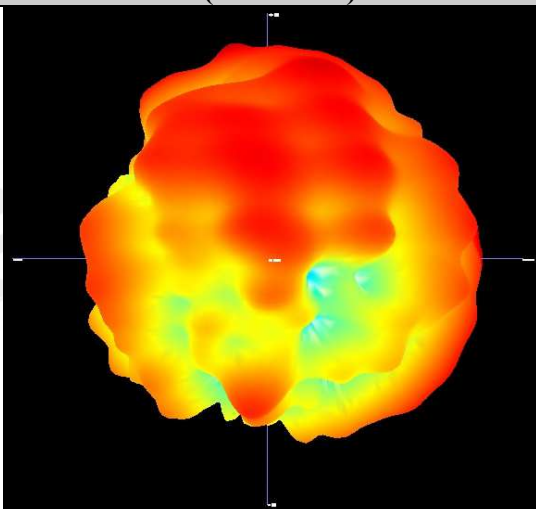
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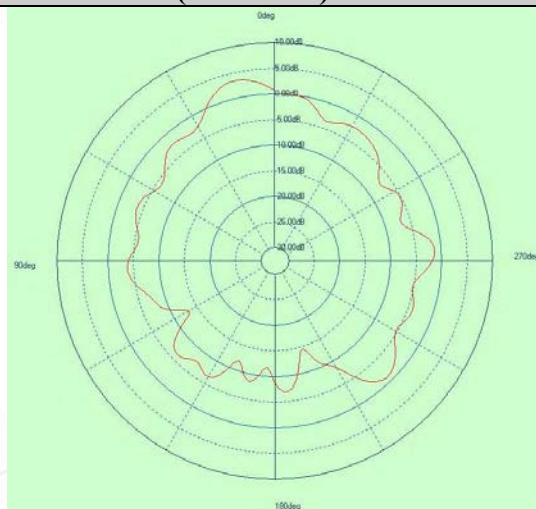
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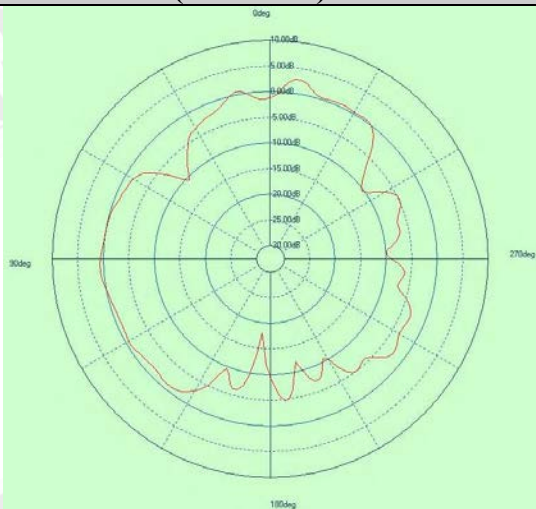
**Free Space
EIRP (2472MHz) - 3D**



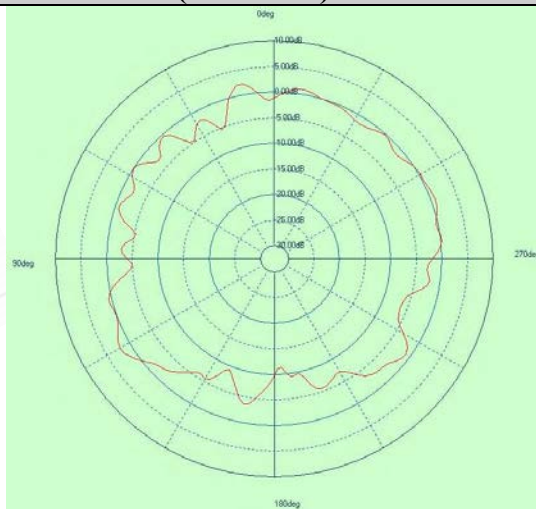
**Free Space
EIRP (2472MHz) - XY cut**



**Free Space
EIRP (2472MHz) - XZ cut**



**Free Space
EIRP (2472MHz) - YZ cut**

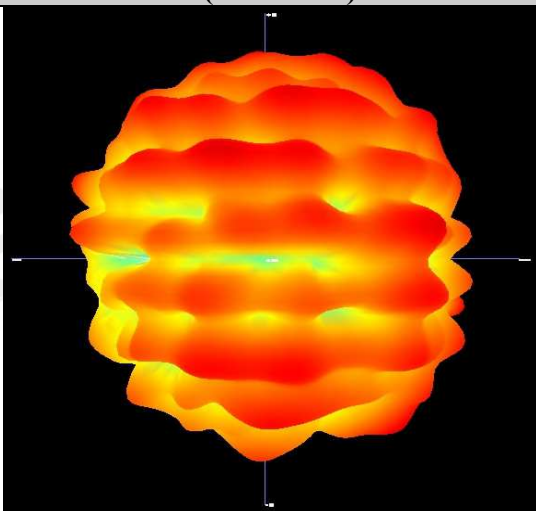


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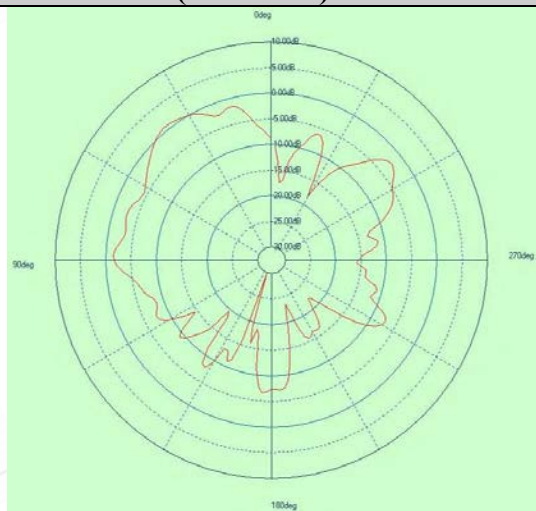
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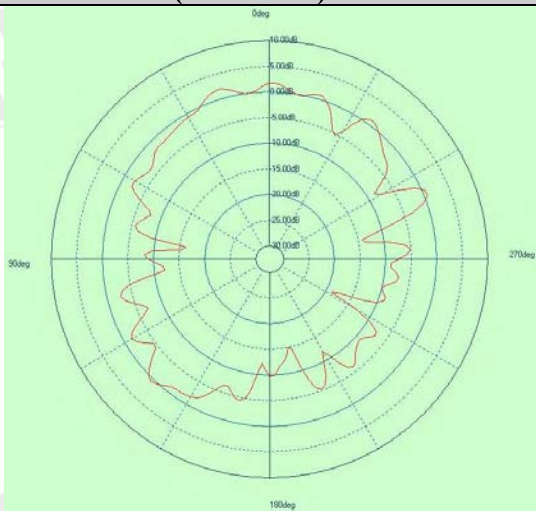
**Free Space
EIRP (5180MHz) - 3D**



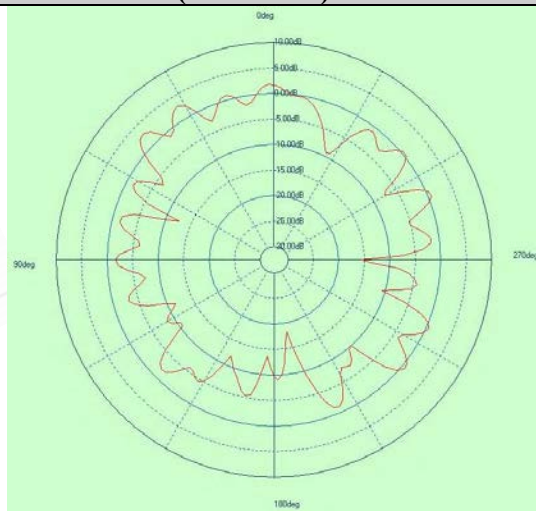
**Free Space
EIRP (5180MHz) – XY cut**



**Free Space
EIRP (5180MHz) – XZ cut**



**Free Space
EIRP (5180MHz) – YZ cut**



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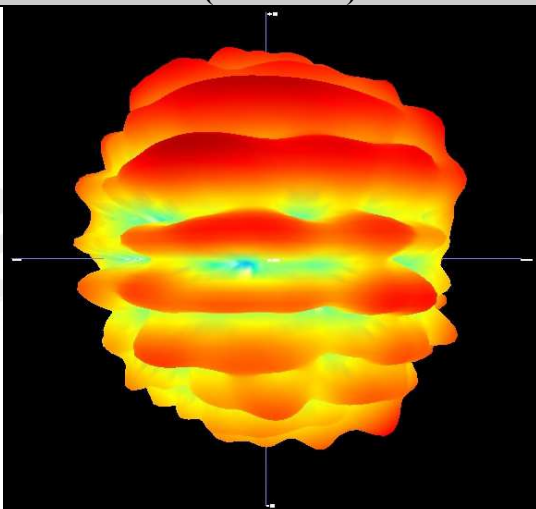
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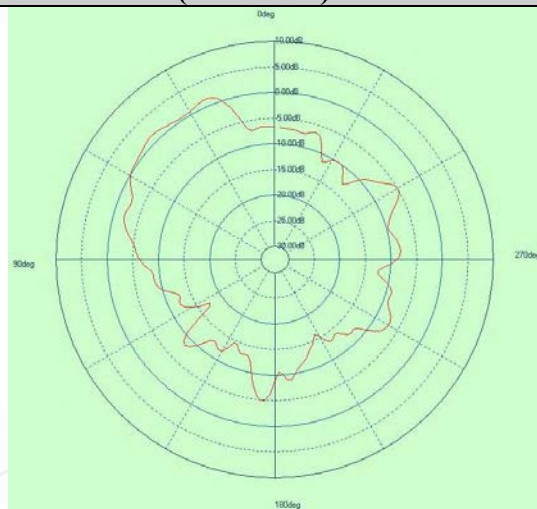
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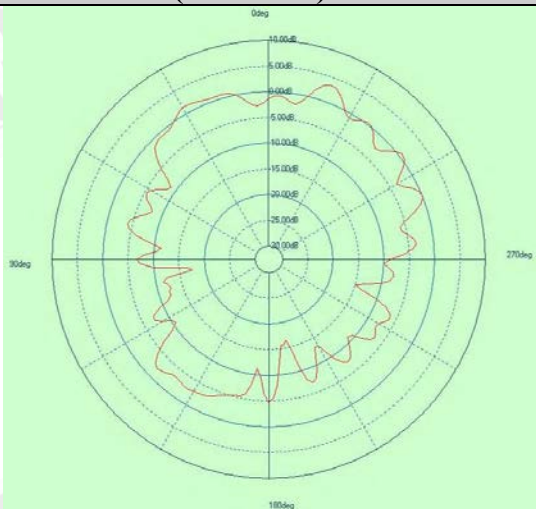
**Free Space
EIRP (5500MHz) - 3D**



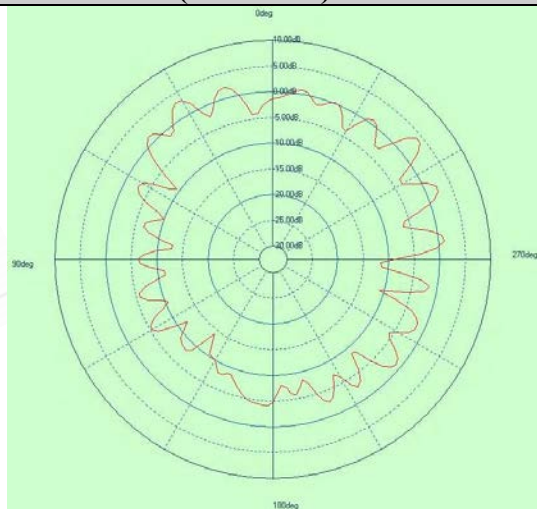
**Free Space
EIRP (5500MHz) - XY cut**



**Free Space
EIRP (5500MHz) - XZ cut**



**Free Space
EIRP (5500MHz) - YZ cut**



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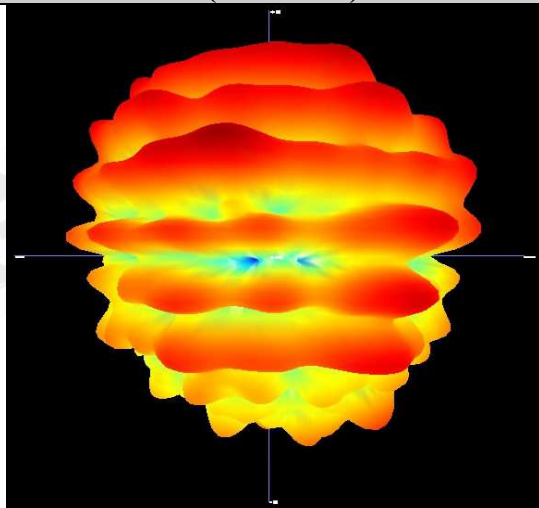
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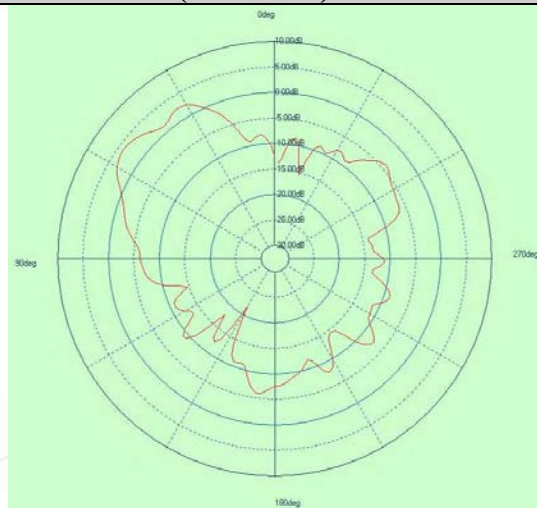
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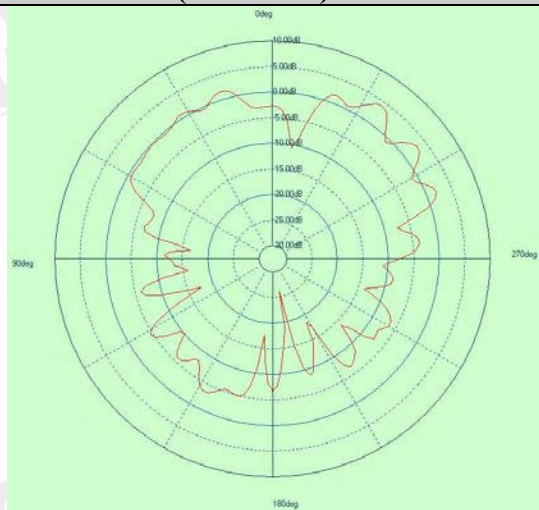
**Free Space
EIRP (5825MHz) - 3D**



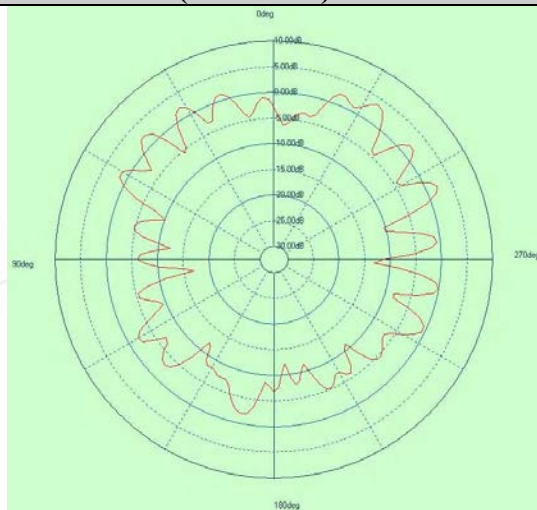
**Free Space
EIRP (5825MHz) - XY cut**



**Free Space
EIRP (5825MHz) - XZ cut**



**Free Space
EIRP (5825MHz) - YZ cut**

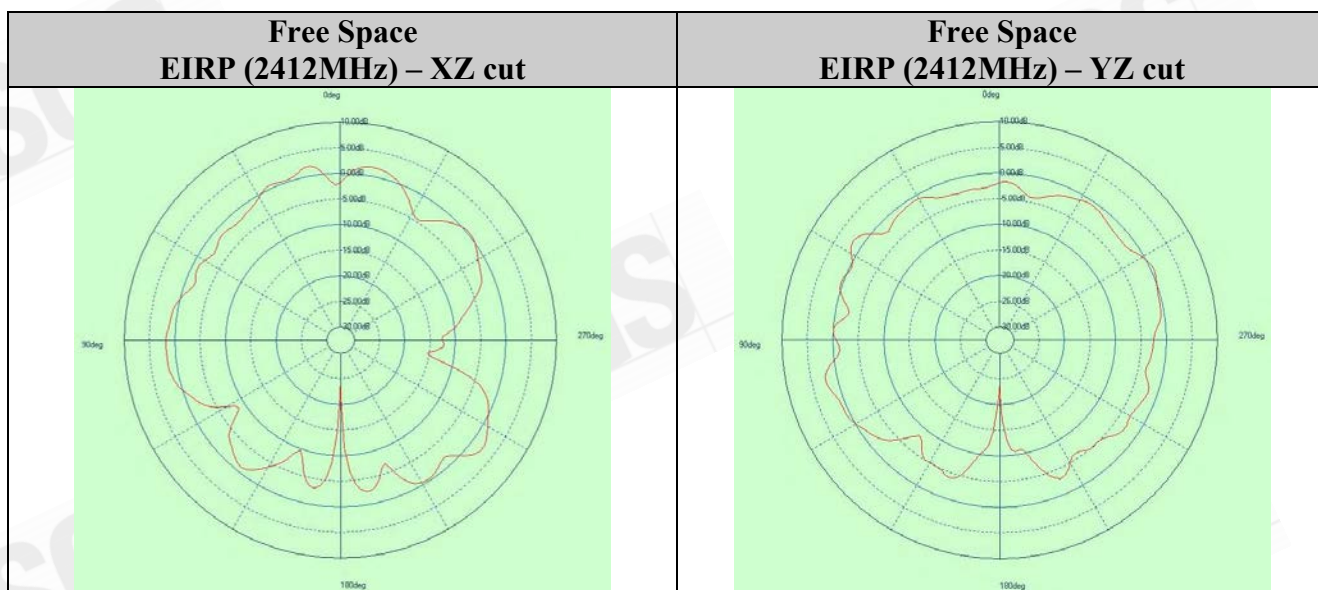
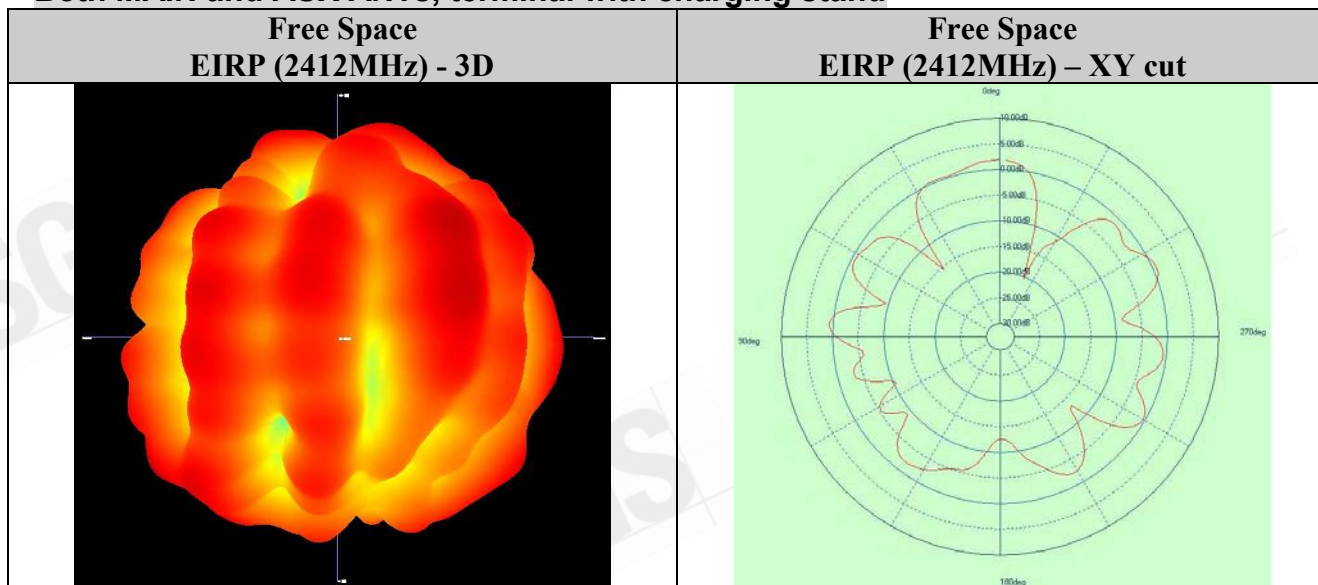


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Both MAIN and AUX ANT, terminal with charging stand

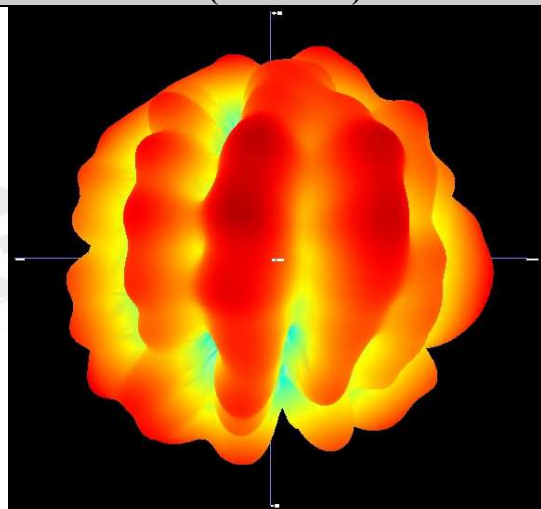


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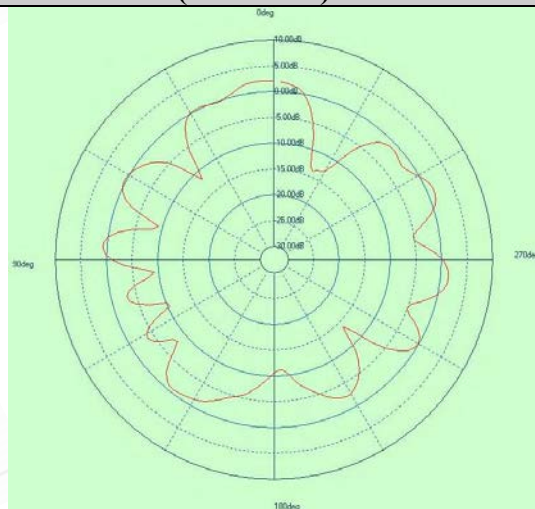
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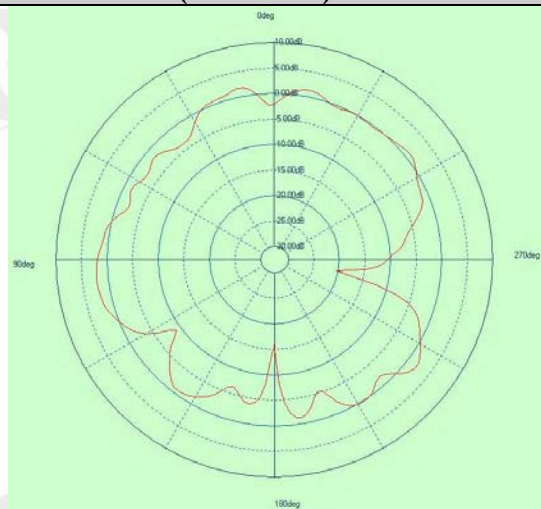
**Free Space
EIRP (2442MHz) - 3D**



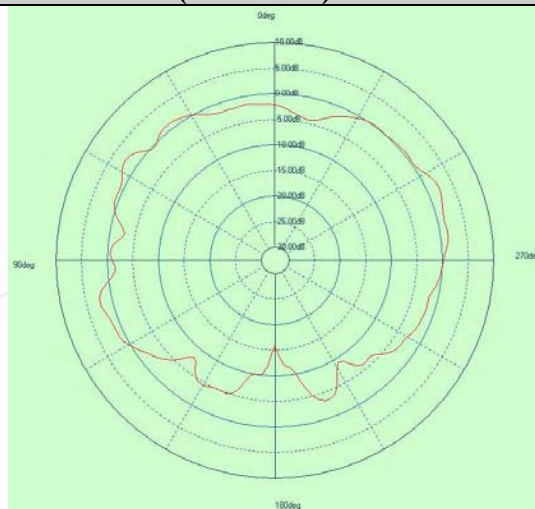
**Free Space
EIRP (2442MHz) - XY cut**



**Free Space
EIRP (2442MHz) - XZ cut**



**Free Space
EIRP (2442MHz) - YZ cut**



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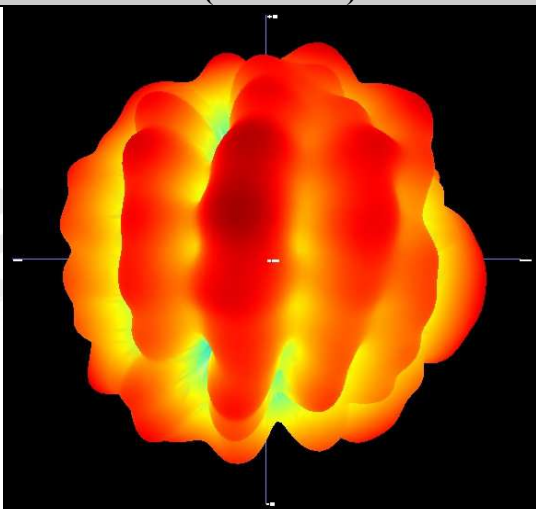
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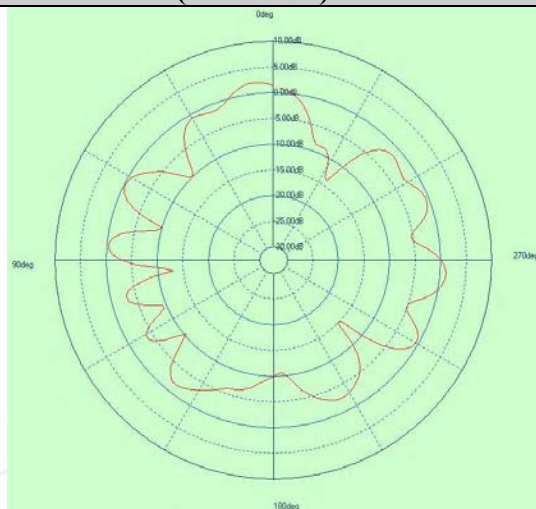
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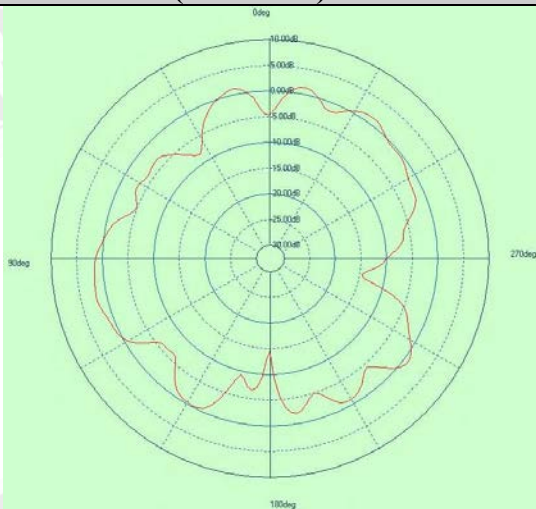
**Free Space
EIRP (2472MHz) - 3D**



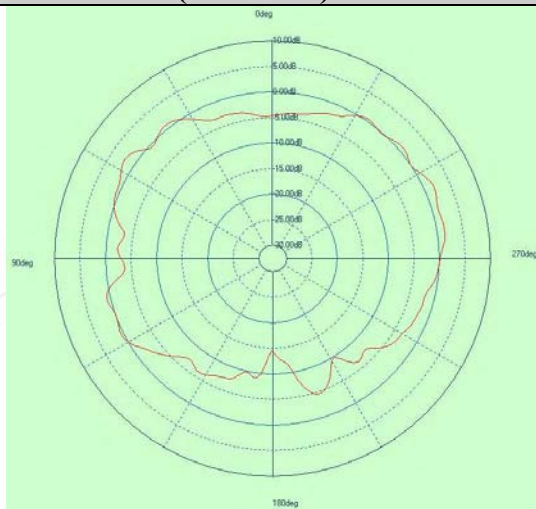
**Free Space
EIRP (2472MHz) - XY cut**



**Free Space
EIRP (2472MHz) - XZ cut**



**Free Space
EIRP (2472MHz) - YZ cut**

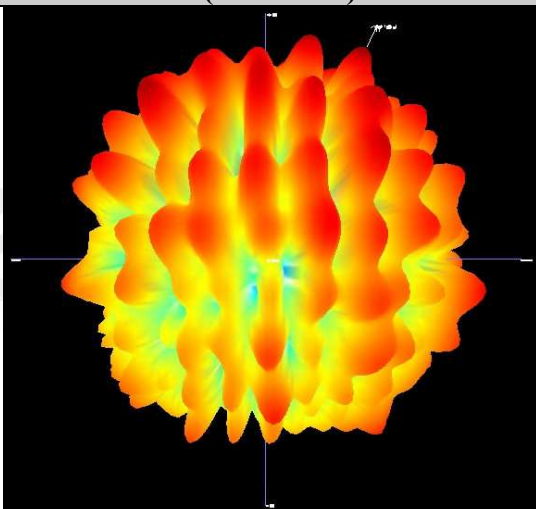


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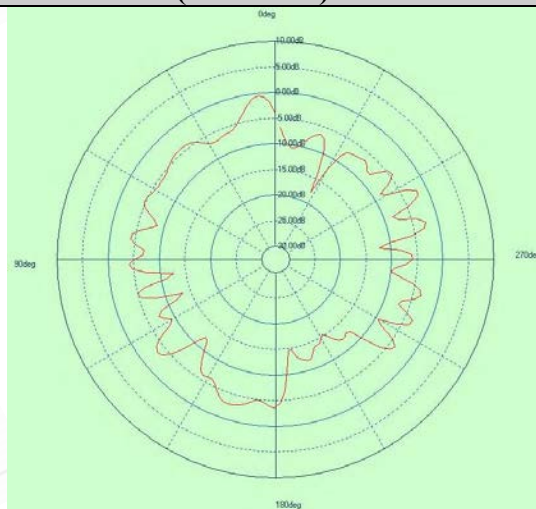
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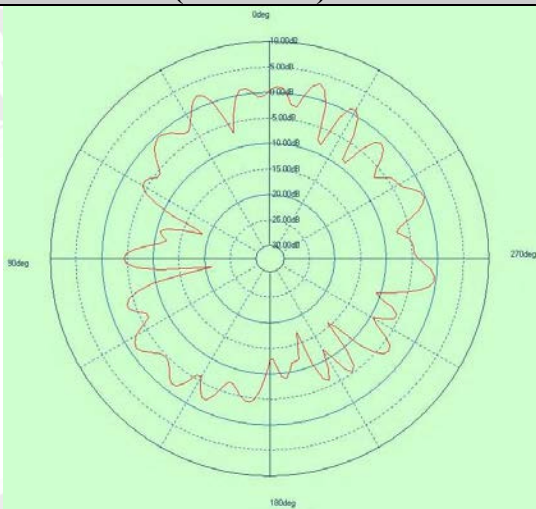
**Free Space
EIRP (5180MHz) - 3D**



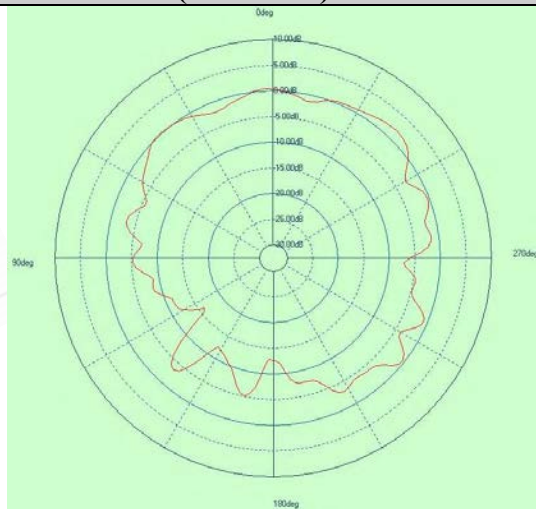
**Free Space
EIRP (5180MHz) - XY cut**



**Free Space
EIRP (5180MHz) - XZ cut**



**Free Space
EIRP (5180MHz) - YZ cut**



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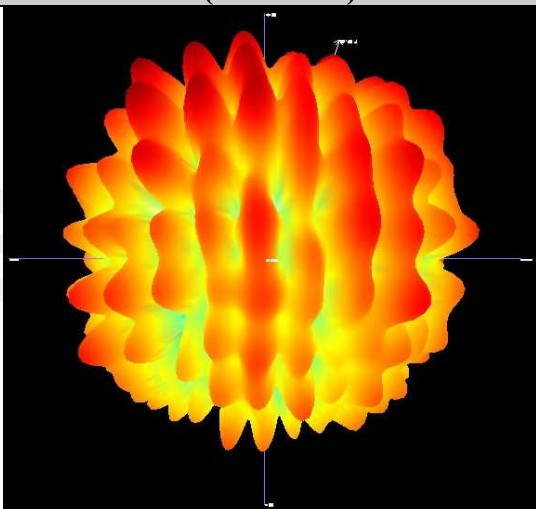
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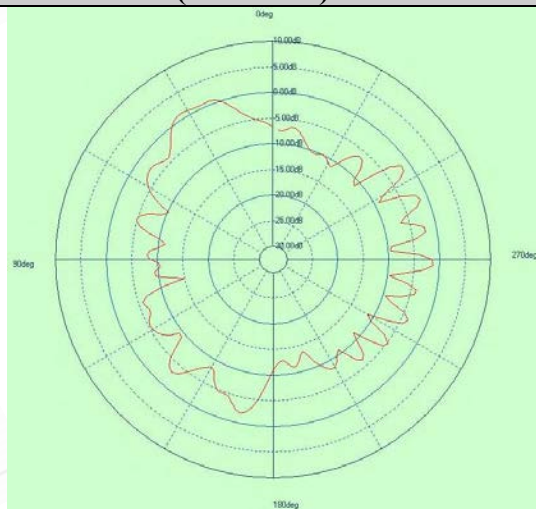
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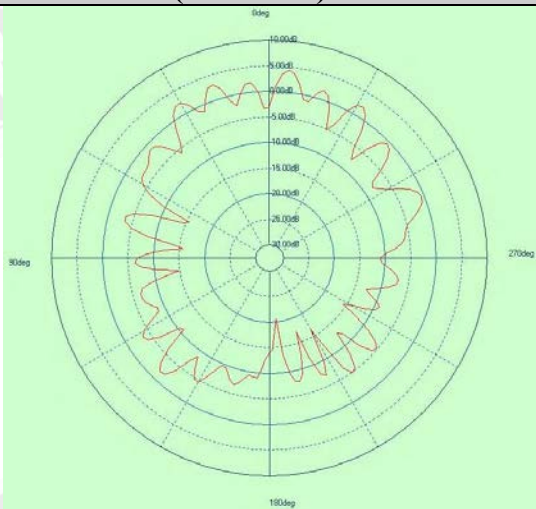
**Free Space
EIRP (5500MHz) - 3D**



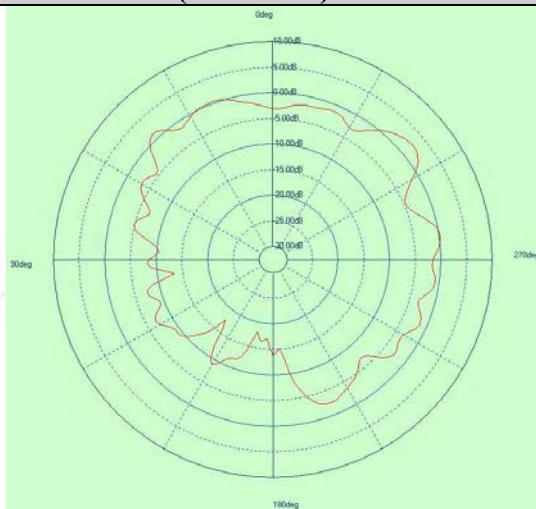
**Free Space
EIRP (5500MHz) - XY cut**



**Free Space
EIRP (5500MHz) - XZ cut**



**Free Space
EIRP (5500MHz) - YZ cut**



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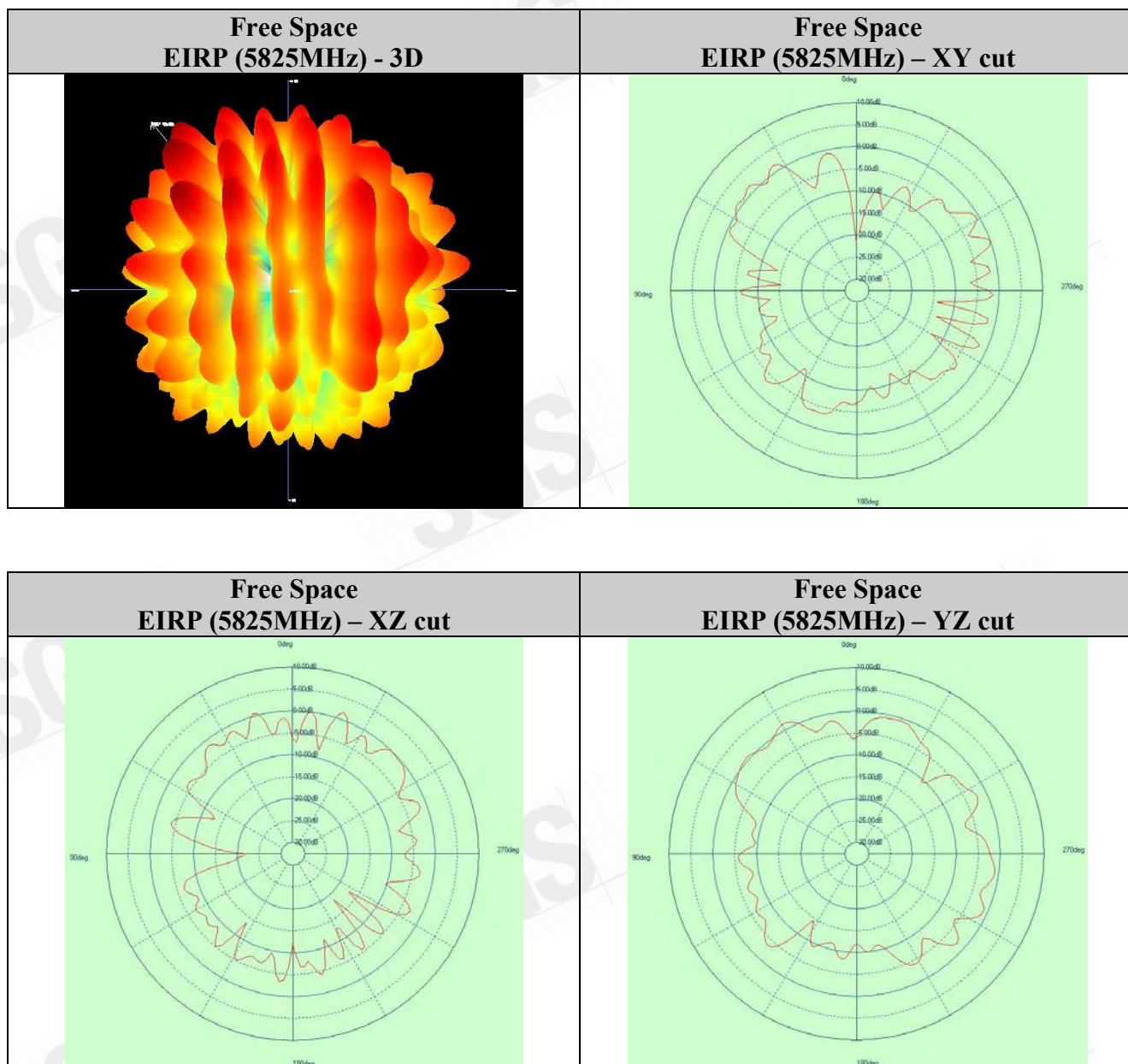
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End of Report

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