MA-WC2458-2H

2.4-2.5 GHz & 5.15-5.875 GHz Dual Band Small Sector Antenna, 60º

MARS Dual Band Sector antenna provides coverage of 2.4 to 2.5 GHz & 5.15 to 5.875 GHz in a single antenna radome.
Additional Features:

- Wide coverage.
- Light weight and durable construction.
- UV protected radome made of polycarbonate.

Specifications

Electrical	
Frequency range	2.4-2.5 GHz & 5.15-5.875 GHz
GAIN, typ.	2 x 7.5 dBi
VSWR, max.	1.8 : 1
Polarization	Dual Slant ±45º
3 dB Beam-Width, H-Plane, typ.	70° @ 2.4-2.5 GHz; 65° @ 5.15-5.875 GHz
3 dB Beam-Width, E-Plane, typ.	65° @ 2.4-2.5 GHz; 60° @ 5.15-5.875 GHz
Input power, max.	20 Watt
Input Impedance	50 Ohm
Mechanical	
Dimensions (W x L x H)	200 x 200 x 33 mm (7.9" x 7.9" x 1.25")
Connector	See ordering options
Weight	400 gr.
Back Plane	Aluminum; protected through chemical passivation
Radome	UV Protected Polycarbonate
Water Proofing	IP-67
Mount	See ordering options
Environmental	
Operating Temperature Range	-40°C to +70°C
Vibration	According to IEC 60721-3-4
Flammability	UL94
Humidity	ETS 300 019-1-4, EN 302 085 (annex A.1.1)

Ordering Options

MA-WC2458-2H	Antenna 2 x Coaxial Cable RG 316 with RPSMA Male, wall mountable
MA-WC2458-2H2	Antenna 2 x Coaxial Cable RG 316 with N-Type Male with provision for Az/El adjustable for MNT-22 mount
MA-WC2458-2H2B	Antenna 2 x Coaxial Cable RG 316 with N-Type Male with MNT-22 mount

Patterns are available on our website

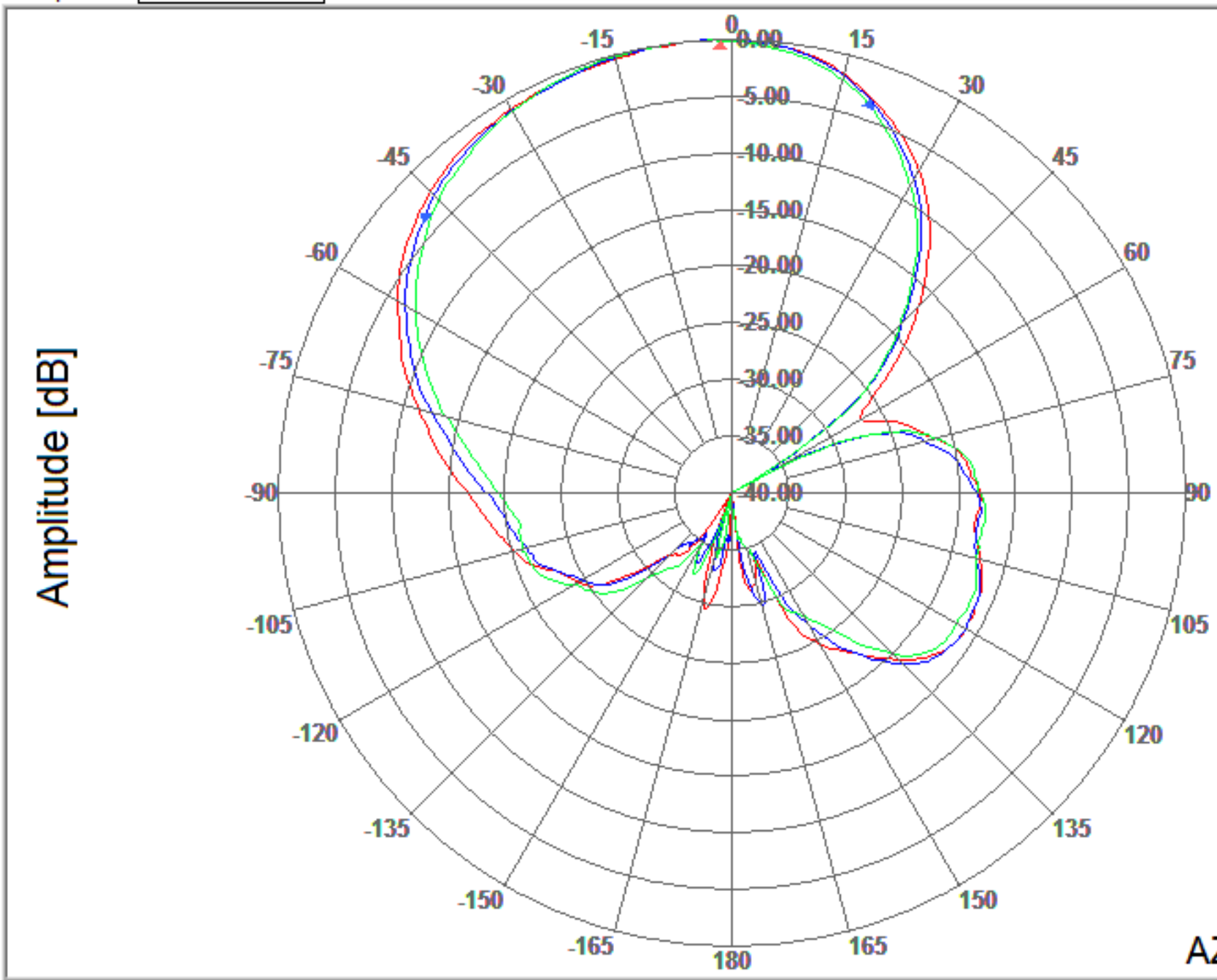
3 Hamanor st. Holon 5886103, P.O.Box 1852 Holon 5811801, Israel
Tel: +972-3-5599661 • Fax: +972-3-5599677 • e-mail: mars@marsant.co.il • web: www.mars-antennas.com

Operator: MARS

MA-WC2458-2H E-plane

Date 18-May-22 5:42 PM

MARS ANTENNAS & RF SYSTEMS
MARS ANTENNAS RANGE



Side lobes | Database | Ax.Ratio

Side Lobes

No.	Ampl	Deg

Ampl. Color

Visible Section

- [x] Amplitude [dB]
- [ ] Phase [deg]

	Not Aligned
No Skirt	Normalized
Not Rotated	Phase wrapped
Ends Not Connected	Log. Display

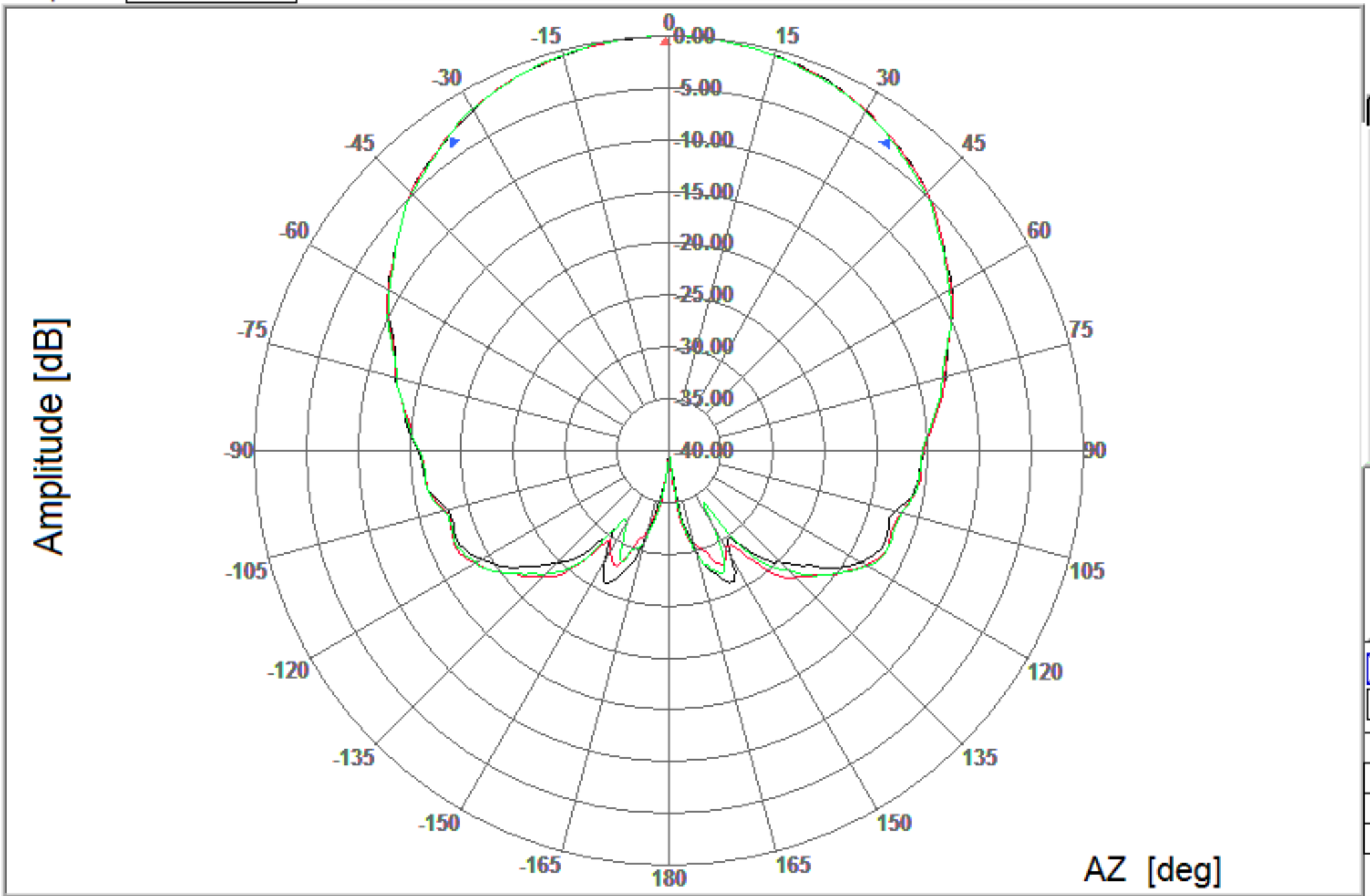
A	P	File Name			Freq. [GHz]		Ch.	Beam	Switch	Beam Peak [dB] Value	[deg]		Beam Width [deg] Value	At dB		Null Depth [dB] Value	[deg]		Gain dBi			
		ok.-WC2458-2H (I) E-plane -CAL.nff			2.400 G		CH1			6.51	-1.50	P	67.53	3.00	P				6.51			
		ok.-WC2458-2H (I) E-plane -CAL.nff			2.450 G		CH1			6.89	-3.50	P	64.03	3.00	P				6.89			
		ok.-WC2458-2H (I) E-plane -CAL.nff			2.500 G		CH1			6.59	-5.50	P	60.10	3.00	P				6.59			

Operator: MARS

MA-WC2458-2H H-plane

Date 19-May-22 9:33 AM

MARS ANTENNAS & RF SYSTEMS
MARS ANTENNAS RANGE



Side lobes | Database | Ax.Ratio

Side Lobes

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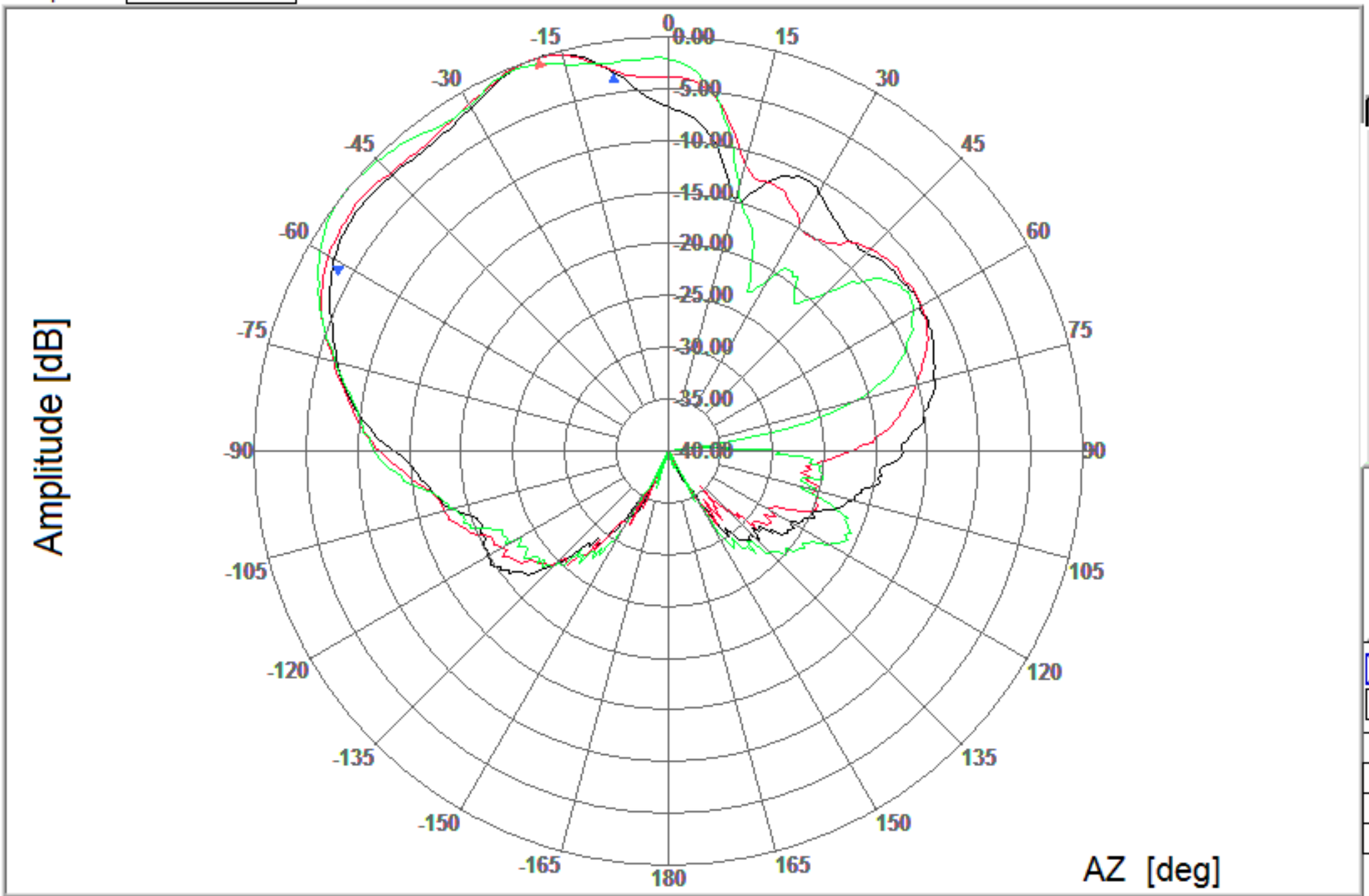
A	P	File Name			Freq. [GHz]		Ch.	Beam	Switch	Beam Peak [dB] Value	[deg]		Beam Width [deg] Value	At dB		Null Depth [dB] Value	[deg]		Gain dBi			
		t.-WC2458-2H (I) H-plane.nff-CAL.n			2.400 G		CH1			6.46	-0.50	P	70.25	3.00	P				6.46			
		t.-WC2458-2H (I) H-plane.nff-CAL.n			2.450 G		CH1			6.83	-2.50	P	70.68	3.00	P				6.83			
		t.-WC2458-2H (I) H-plane.nff-CAL.n			2.500 G		CH1			6.47	0.50	P	70.01	3.00	P				6.47			

Operator: MARS

MA-WC2458-2H E-plane

Date 18-May-22 5:05 PM

MARS ANTENNAS & RF SYSTEMS
MARS ANTENNAS RANGE



Side lobes | Database | Ax.Ratio

Side Lobes

No.	Ampl	Deg

Ampl. Color

Visible Section

- [x] Amplitude [dB]
- [ ] Phase [deg]

	Not Aligned
No Skirt	Normalized
Not Rotated	Phase wrapped
Ends Not Connected	Log. Display

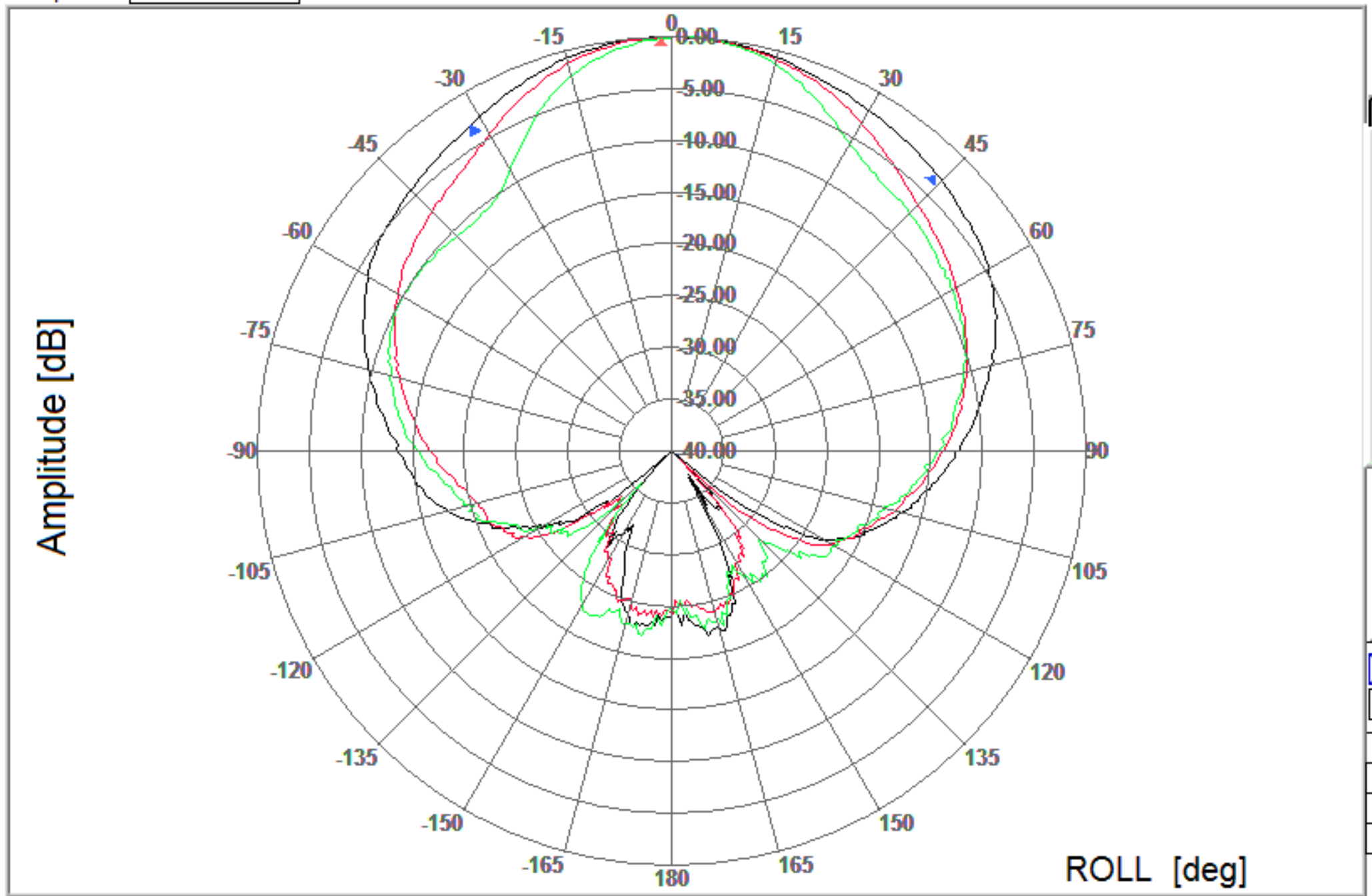
A	P	File Name	Freq. [GHz]	Ch.	Beam	Switch	Beam Peak [dB] Value	[deg]		Beam Width [deg] Value	At dB		Null Depth [dB] Value	[deg]		Gain dBi
		ok.-WC2458-2H (II) E-plane-CAL.nff	5.150 G	CH1			7.18	-18.50	P	52.86	3.00	P				7.18
		ok.-WC2458-2H (II) E-plane-CAL.nff	5.500 G	CH1			7.89	-18.50	P	56.82	3.00	P				7.89
		ok.-WC2458-2H (II) E-plane-CAL.nff	5.875 G	CH1			7.17	-50.50	P	69.19	3.00	P				7.17

Operator: MARS

MA-WC2458-2H H-plane

Date 18-May-22 5:05 PM

MARS ANTENNAS & RF SYSTEMS
MARS ANTENNAS RANGE



Side lobes | Database | Ax.Ratio

Side Lobes

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Ampl. Color

Visible Section

Amplitude [dB]
Phase [deg]

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Ends Not Connected	Log. Display

A	P	File Name	Freq. [GHz]	Ch.	Beam	Switch	Beam Peak [dB] Value	[deg]		Beam Width [deg] Value	At dB		Null Depth [dB] Value	[deg]		Gain dBi
		ok.-WC2458-2H (II) H-plane-CAL.nff	5.150 G	CH1			6.60	-1.50	P	75.40	3.00	P				6.60
		ok.-WC2458-2H (II) H-plane-CAL.nff	5.500 G	CH1			9.06	1.50	P	51.16	3.00	P				9.06
		ok.-WC2458-2H (II) H-plane-CAL.nff	5.875 G	CH1			7.95	3.50	P	37.82	3.00	P				7.95