

AvL Technologies

2.4m Antenna 2-Port Military Ka-band CP Feed

Performance Summary

Gain

Frequency (GHz)	20.2	20.7	21.2	30.0	30.5	31.0
Gain (dBi) LHCP	52.0	52.2	52.5	55.2	55.8	55.9
Gain (dBi) RHCP	52.1	52.3	52.5	55.0	55.4	55.8

3dB Beamwidths

Frequency (GHz)	20.2	20.7	21.2	30.0	30.5	31.0
Azimuth 3dB Beamwidth LHCP (deg)	0.42	0.41	0.41	0.28	0.28	0.29
Azimuth 3dB Beamwidth RHCP (deg)	0.41	0.41	0.38	0.28	0.27	0.27
Elevation 3dB Beamwidth LHCP (deg)	0.44	0.44	0.43	0.30	0.28	0.28
Elevation 3dB Beamwidth RHCP (deg)	0.43	0.42	0.40	0.31	0.31	0.31

Test Frequencies

	Rx min	Rx mid	Rx high	Tx min	Tx mid	Tx high
Labeled Frequency (GHz)	20.2	20.7	21.2	30.0	30.5	31.0
Actual Test Frequency (GHz)	20.201437	20.711854	21.196229	30.001437	30.501437	30.996229

Axial Ratio at Boresight

Frequency (GHz)	20.2	20.7	21.2	30.0	30.5	31.0
Cross-pol, LHCP (dB)	0.40	0.33	0.93	0.72	0.37	0.22
Cross-pol, RHCP (dB)	0.59	0.63	0.32	0.47	0.39	0.50

Axial Ratio in 2dB Beamwidth

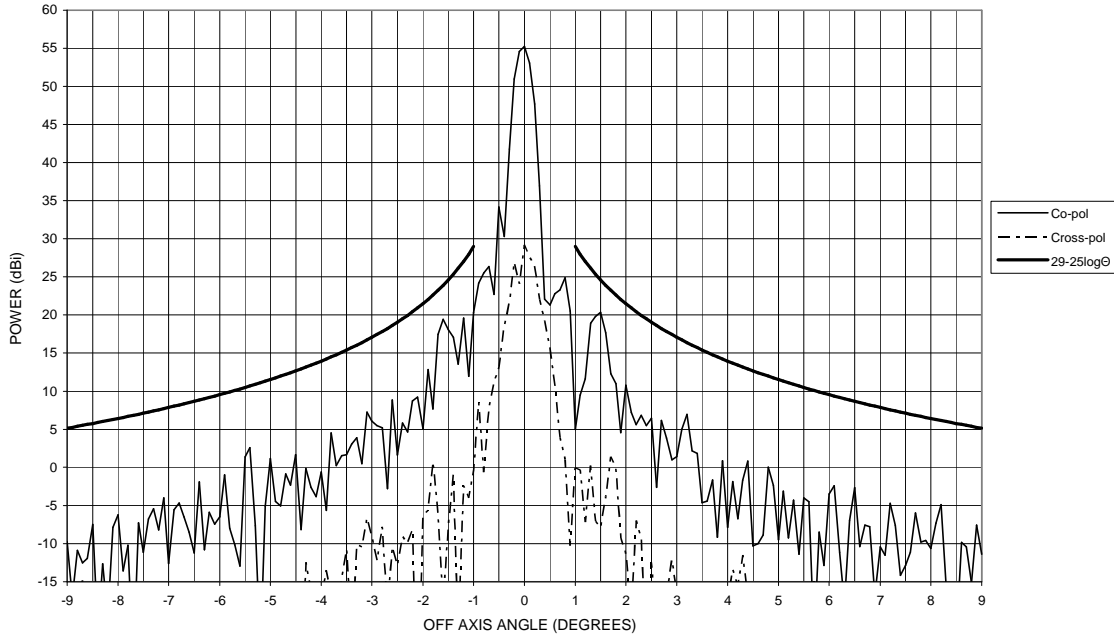
Frequency (GHz)	20.2	20.7	21.2	30.0	30.5	31.0
Cross-pol, LHCP (dB)	0.41	0.33	0.93	0.72	0.71	0.61
Cross-pol, RHCP (dB)	0.80	0.78	0.53	0.47	0.50	0.62

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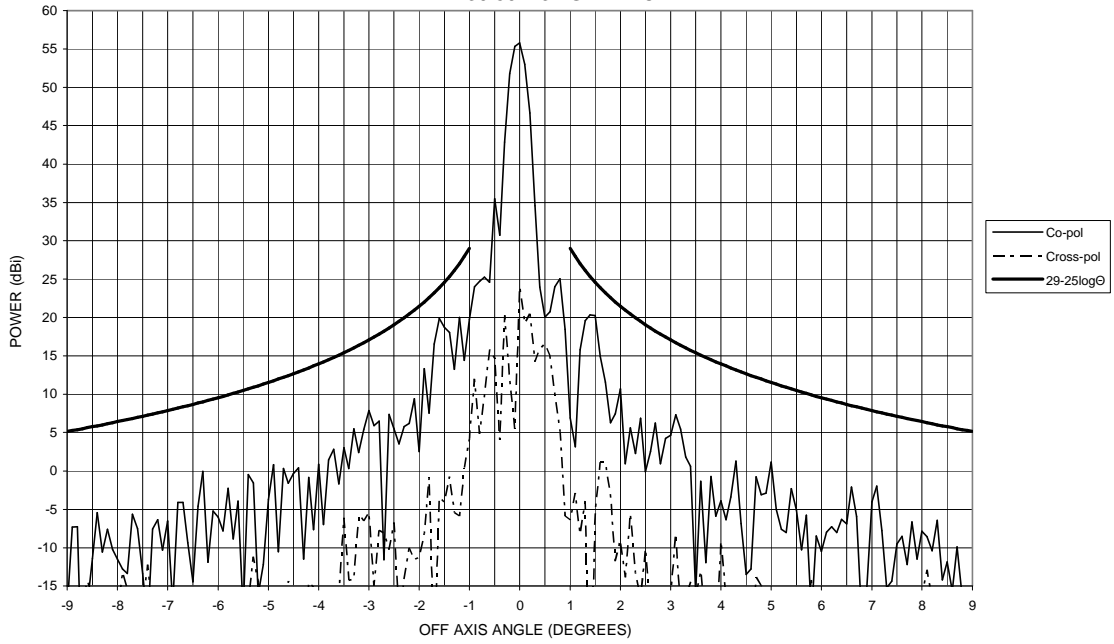
2.4m Antenna
2-Port Military Ka-band CP Feed

Transmit Band Azimuth Patterns

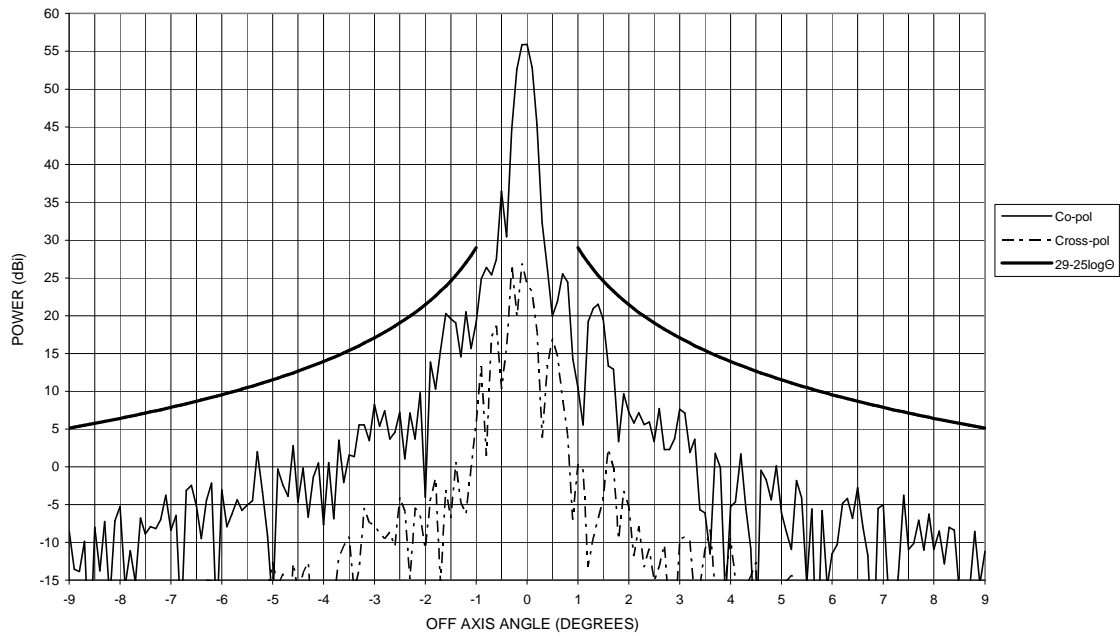
AvL 2.4m Antenna
2-Port Military Ka-band CP Feed
Transmit Band Azimuth Pattern
30.001437 GHz LHCP



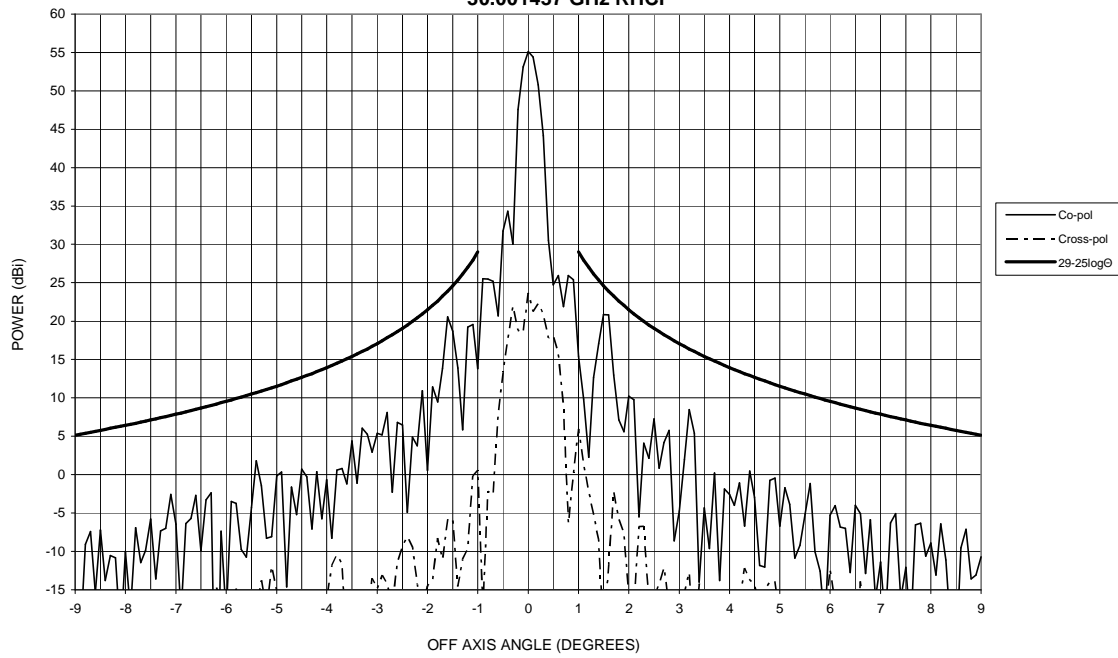
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2-Port Military Ka-band CP Feed
Transmit Band Azimuth Pattern
30.501437 GHz LHCP



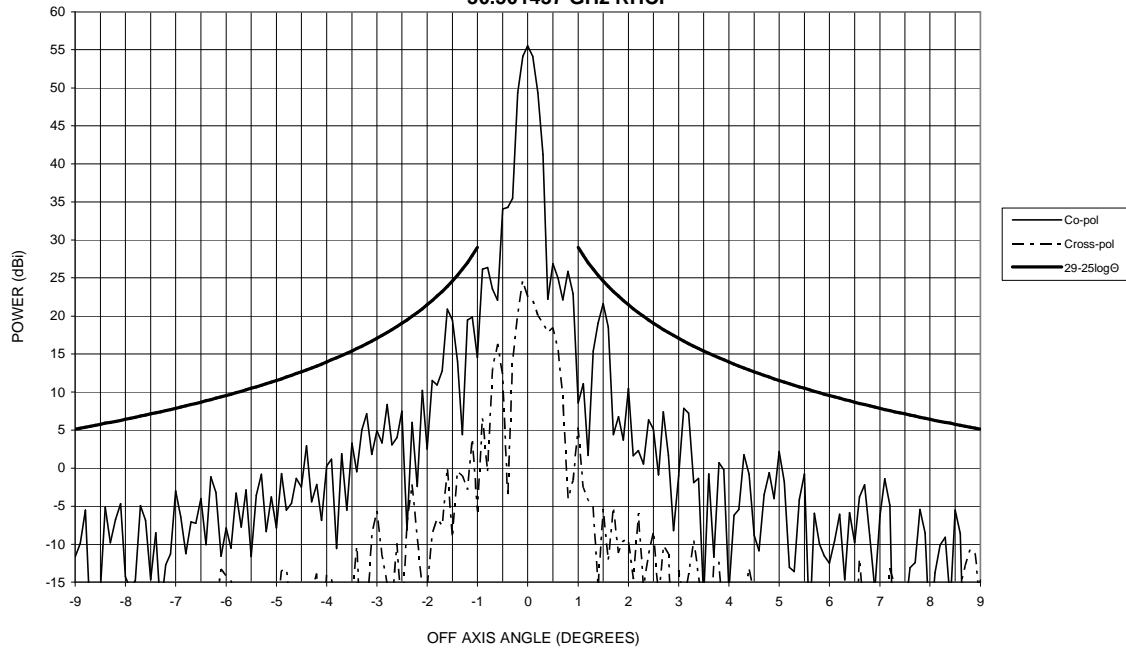
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2-Port Military Ka-band CP Feed
Transmit Band Azimuth Pattern
30.996229 GHz LHCP



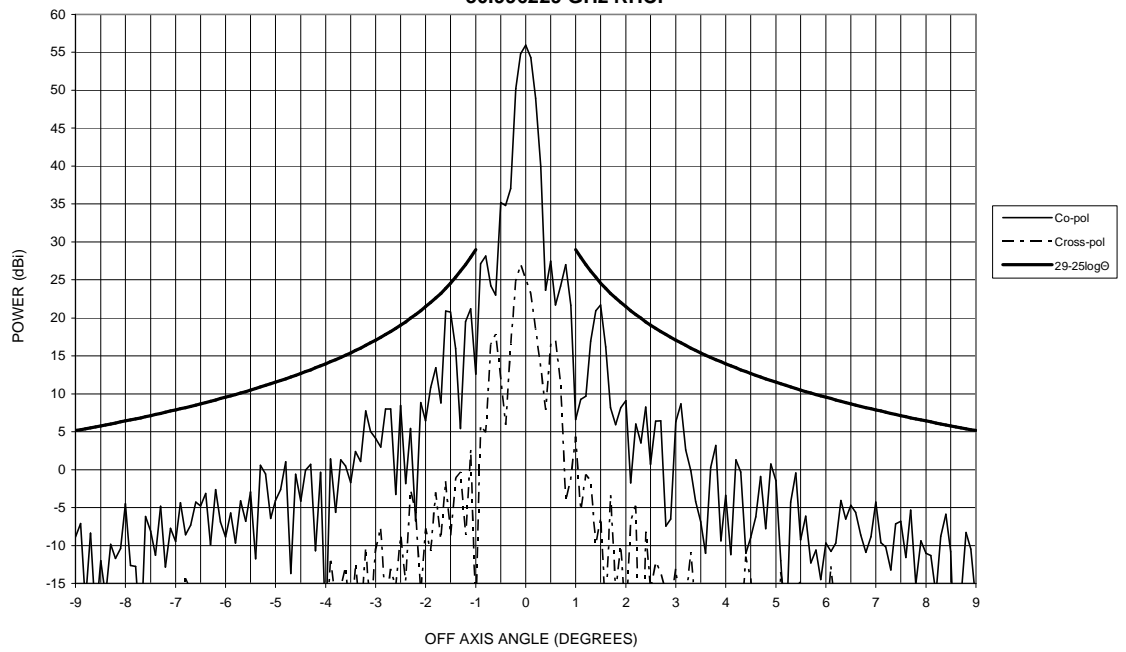
AvL 2.4m Antenna
2-Port Military Ka-band CP Feed
Transmit Band Azimuth Pattern
30.001437 GHz RHCP



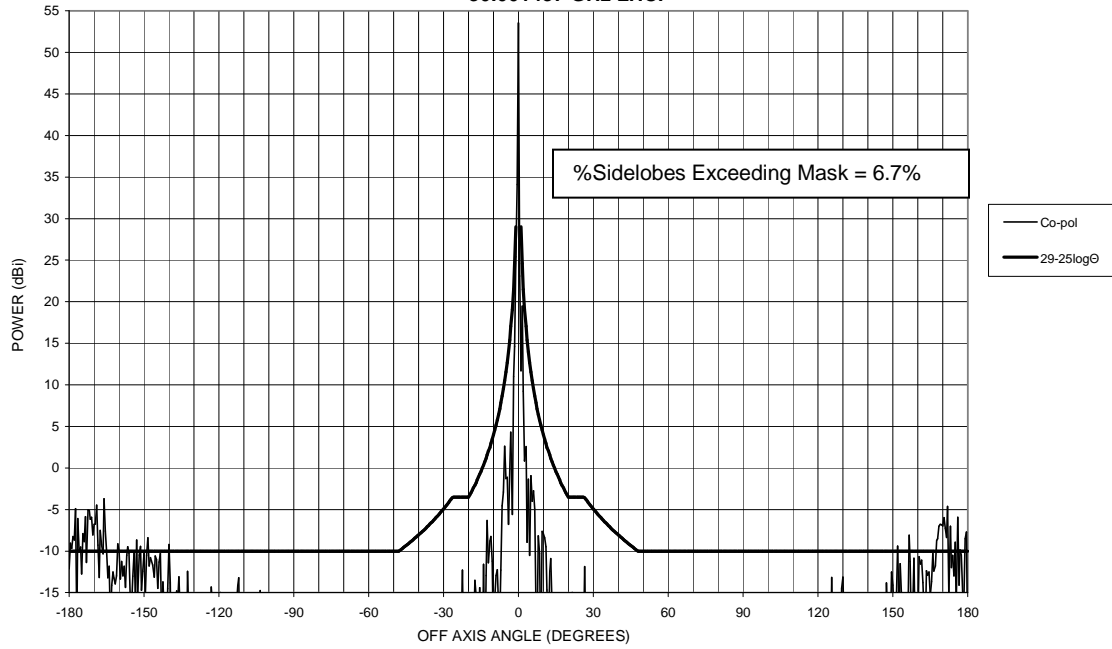
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2-Port Military Ka-band CP Feed
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30.501437 GHz RHCP



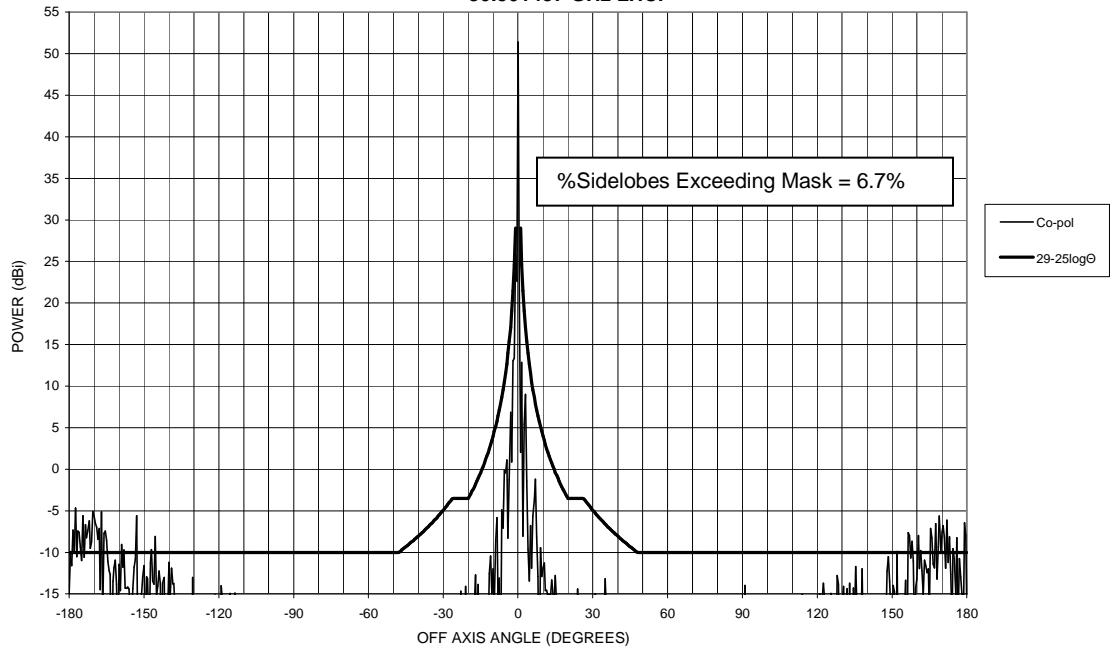
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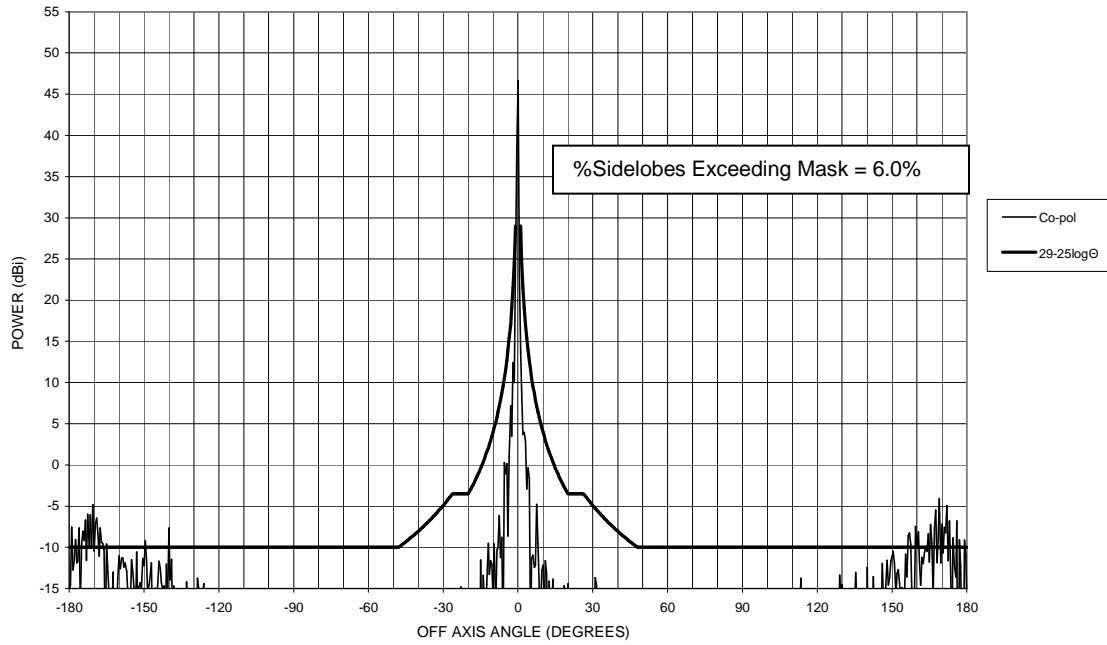
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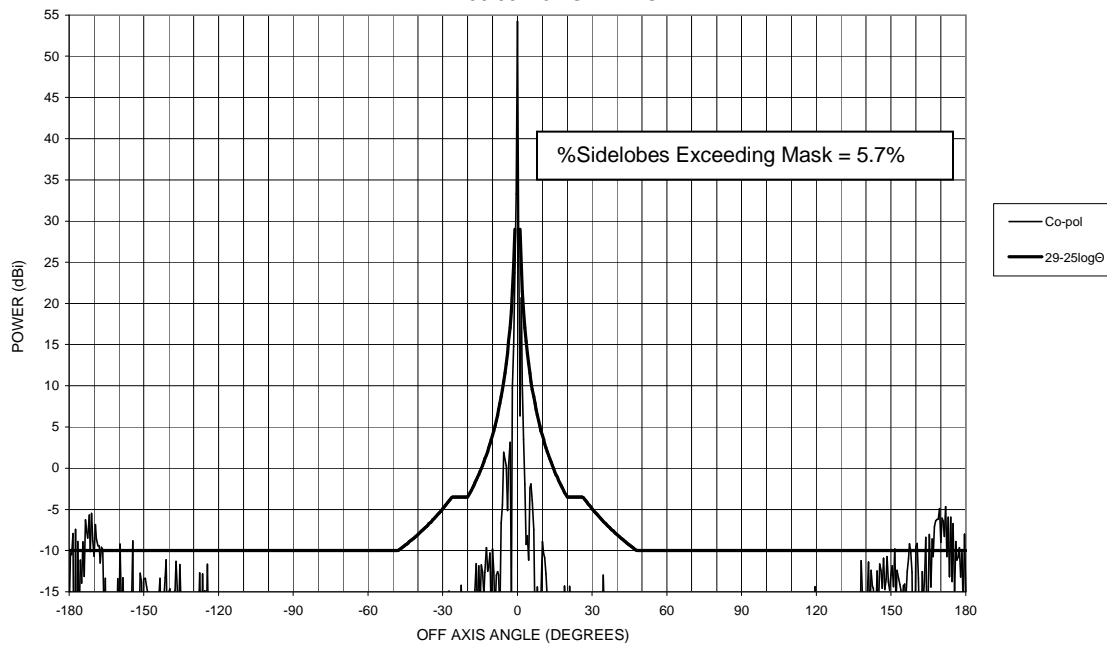
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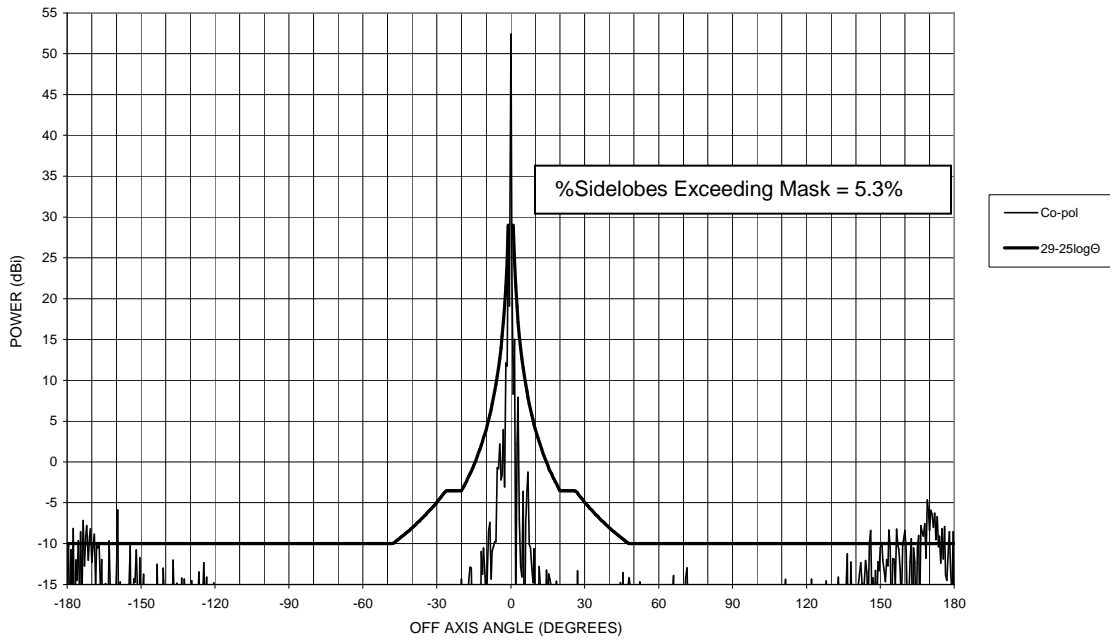
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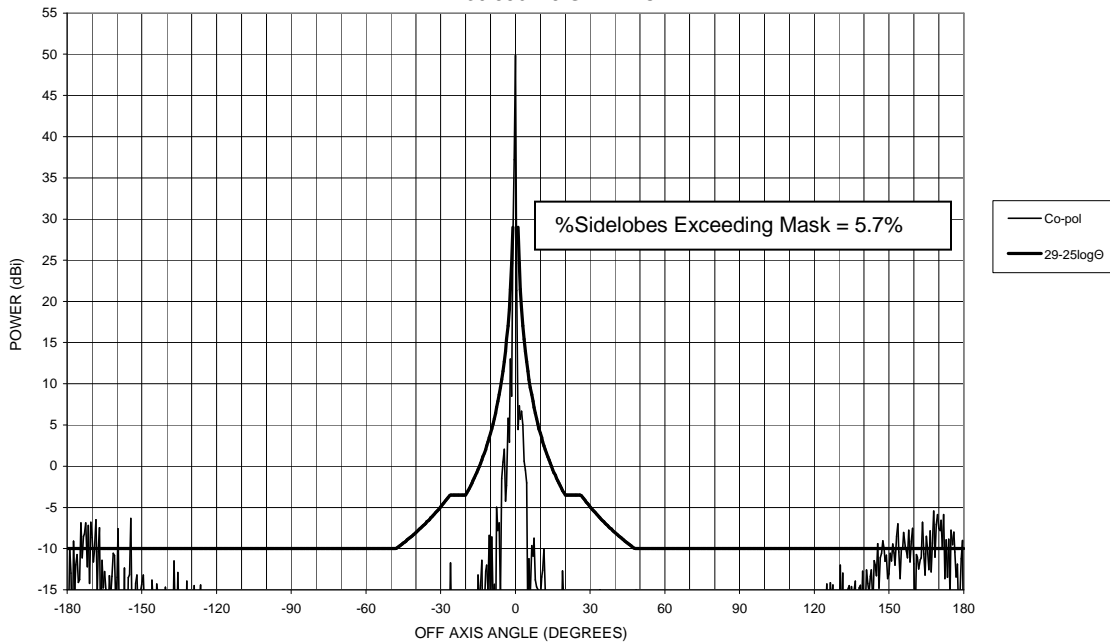
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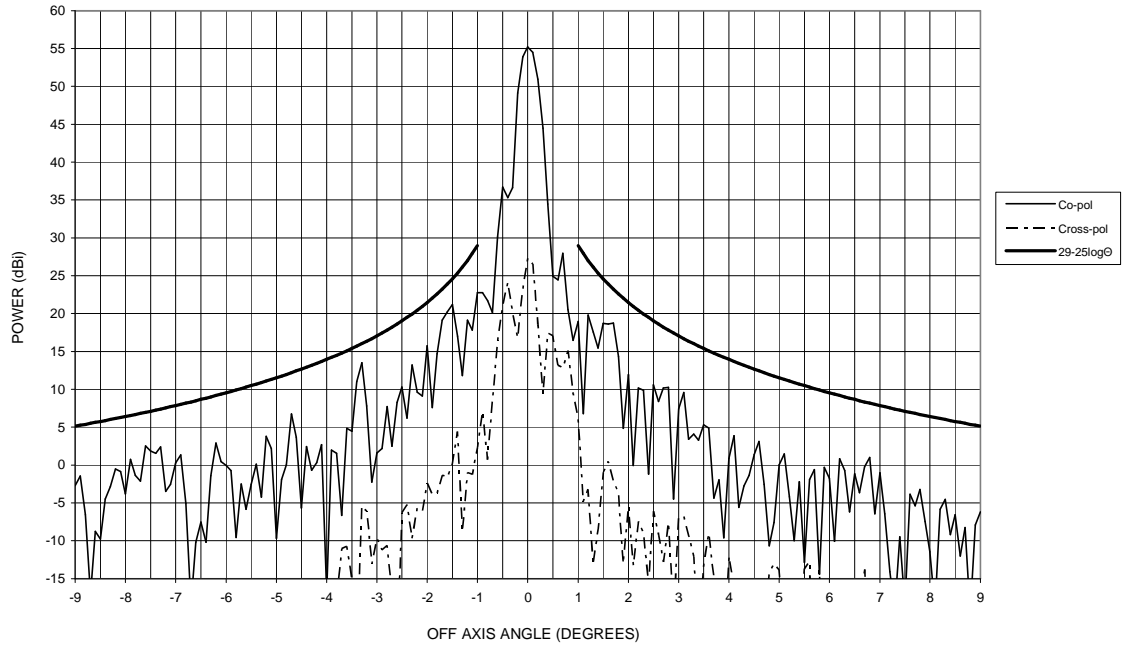


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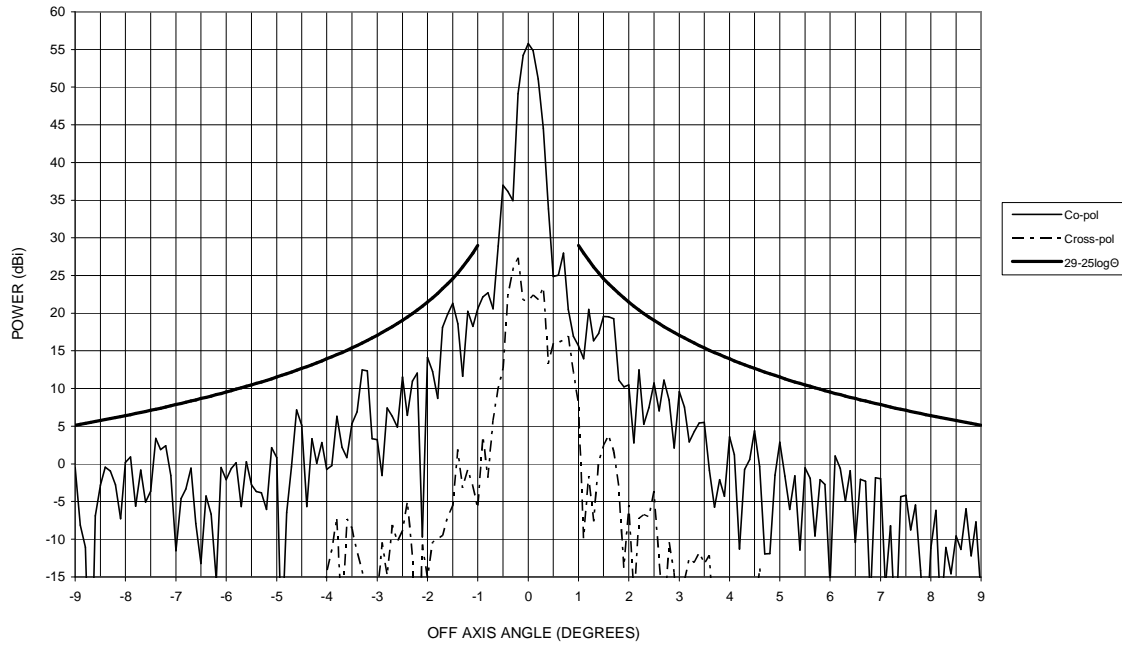
2.4m Antenna
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Transmit Band Elevation Patterns

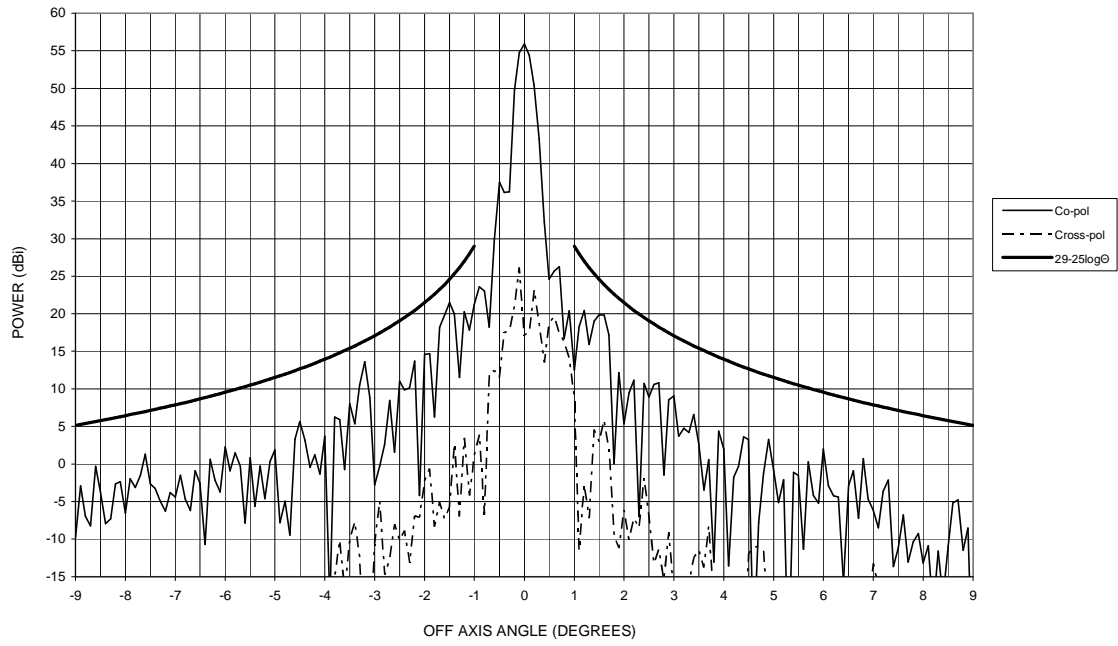
AvL 2.4m Antenna
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30.001437 GHz LHCP



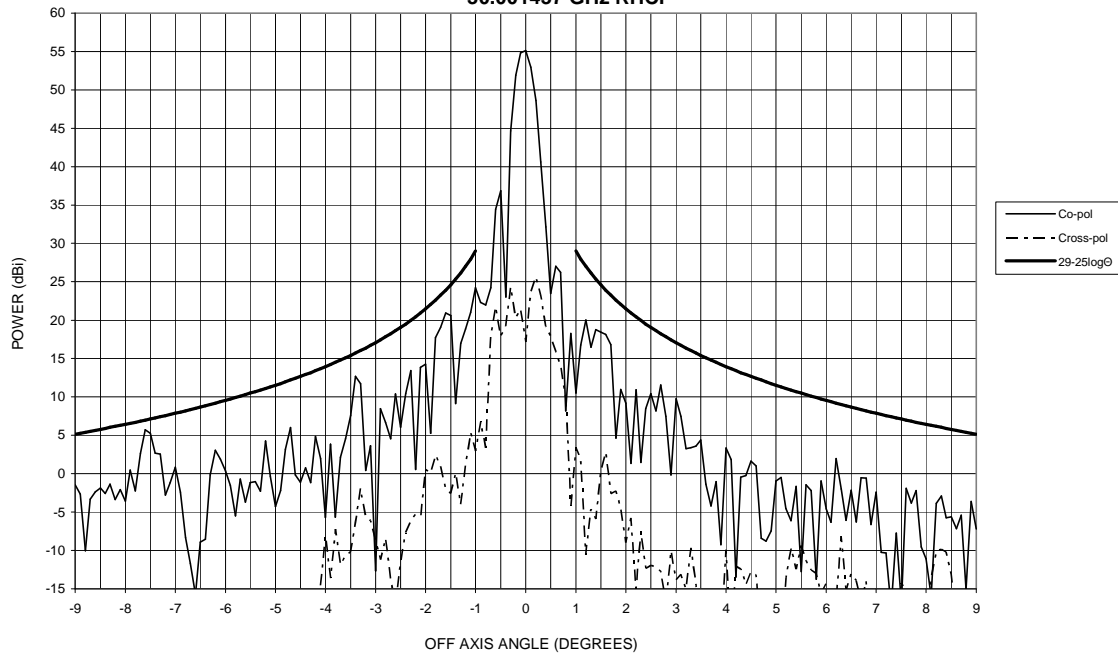
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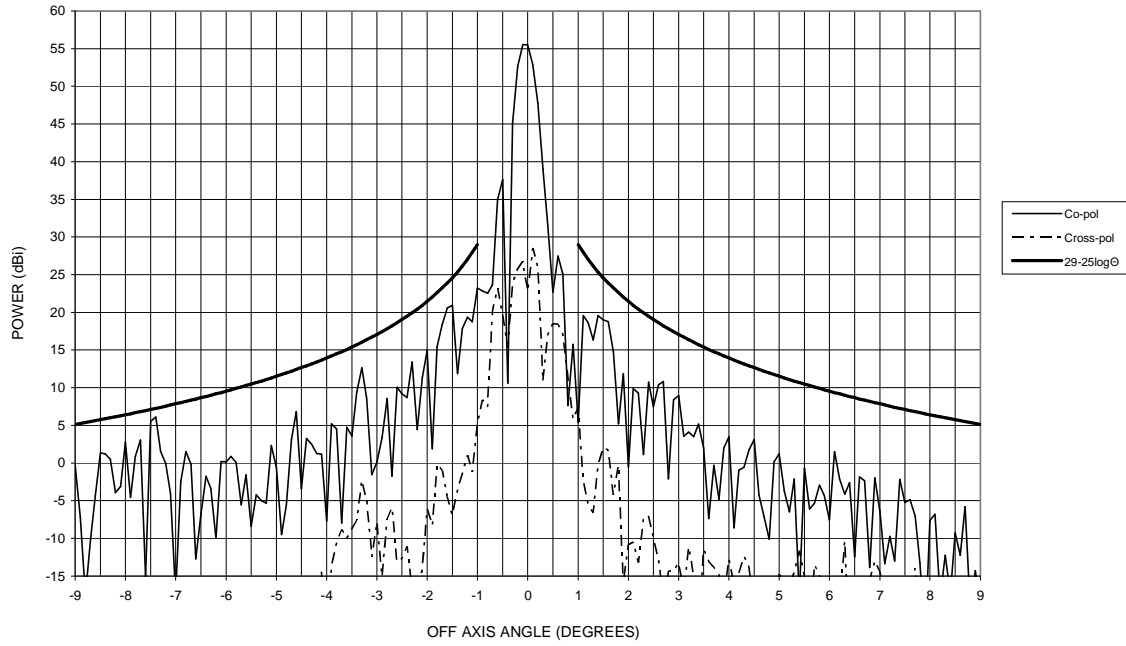
AvL 2.4m Antenna
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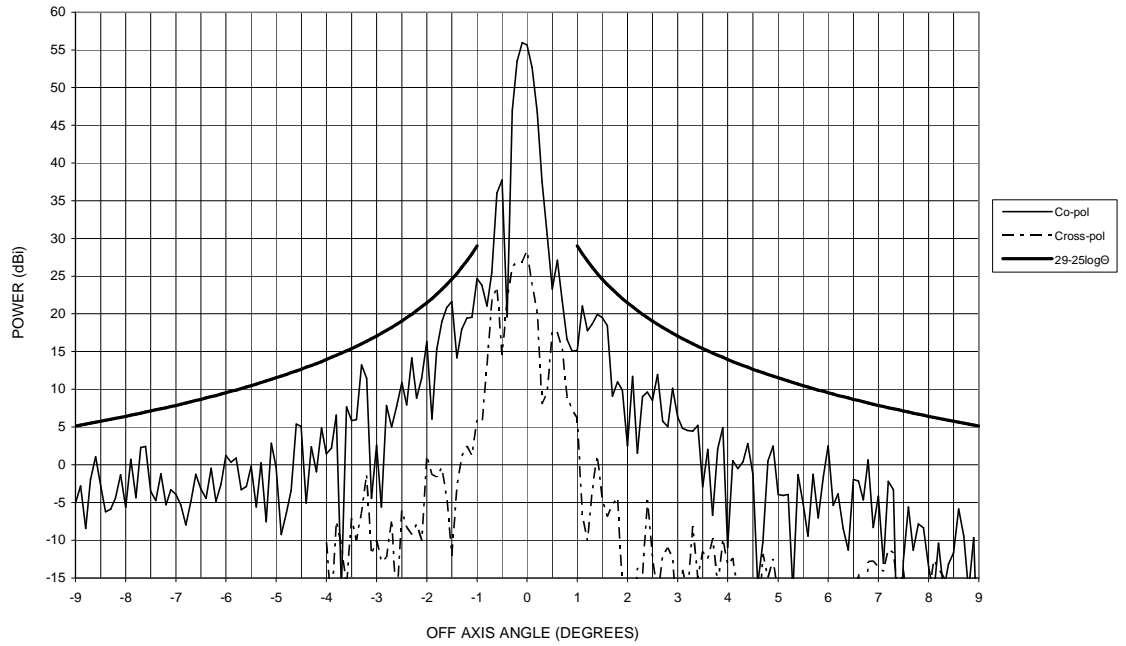
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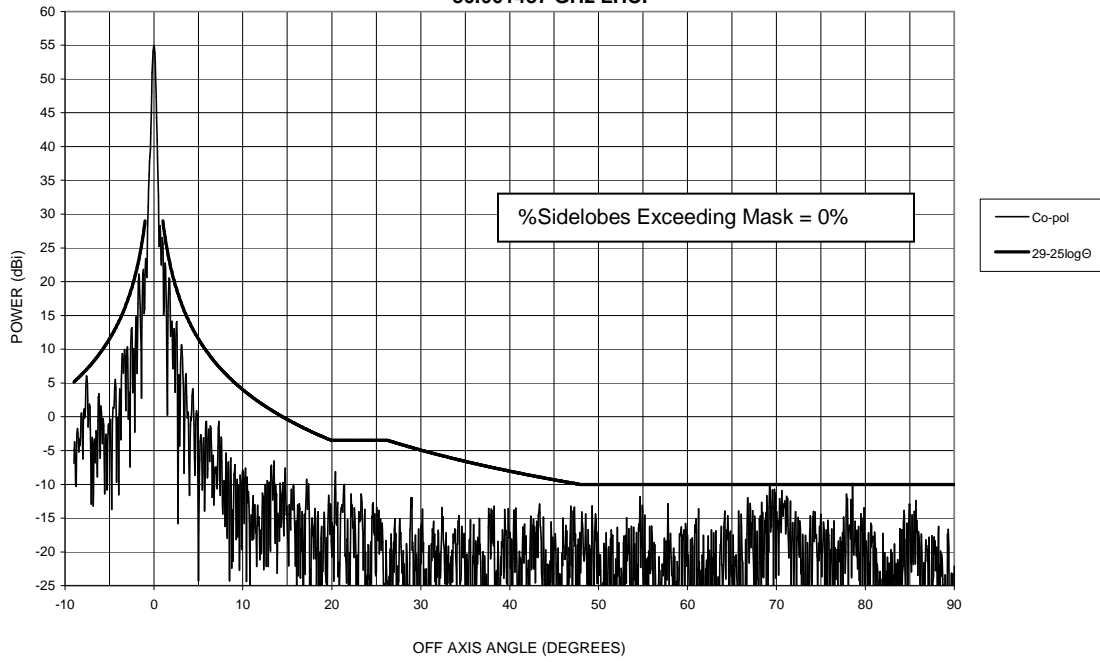
**AvL 2.4m Antenna
2-Port Military Ka-band CP Feed
Transmit Band Elevation Pattern
30.501437 GHz RHCP**



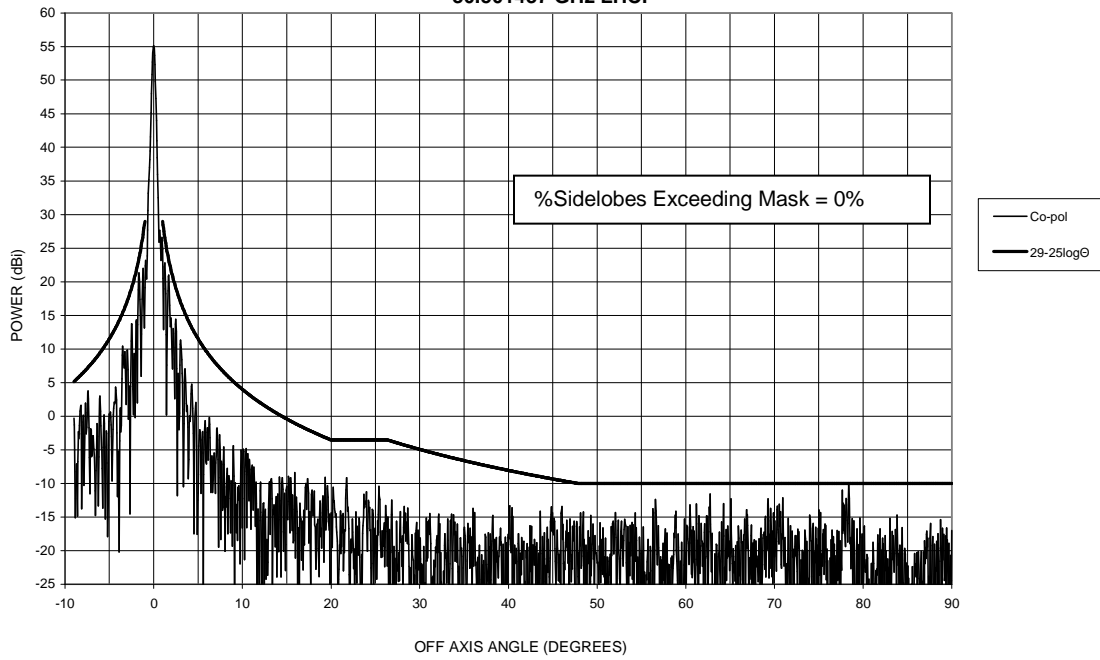
**AvL 2.4m Antenna
2-Port Military Ka-band CP Feed
Transmit Band Elevation Pattern
30.996229 GHz RHCP**



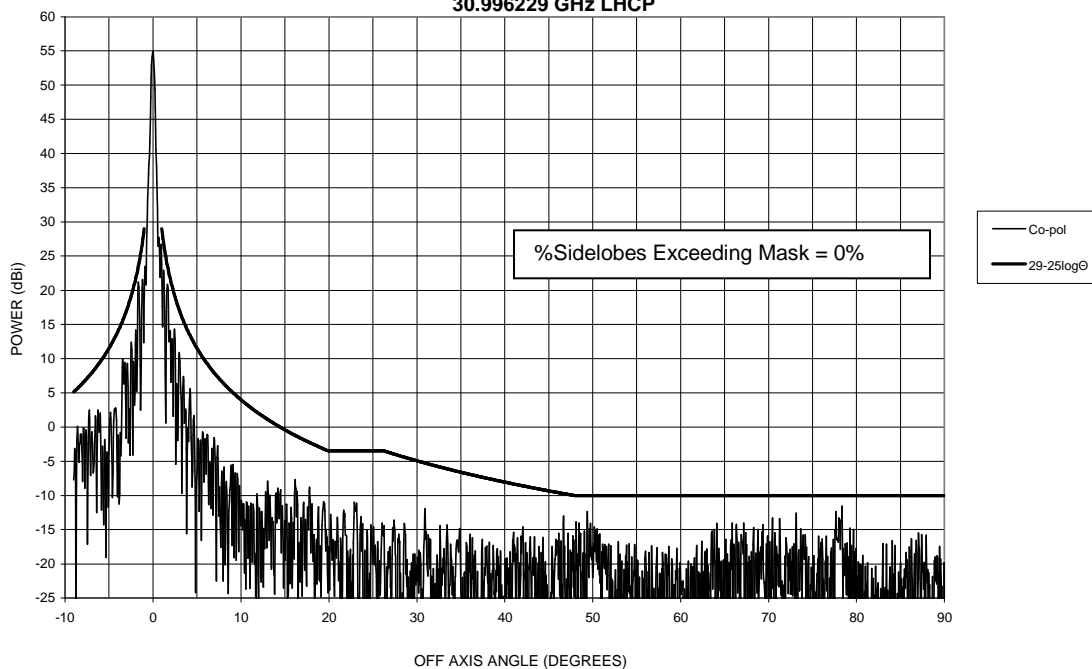
AvL 2.4m Antenna
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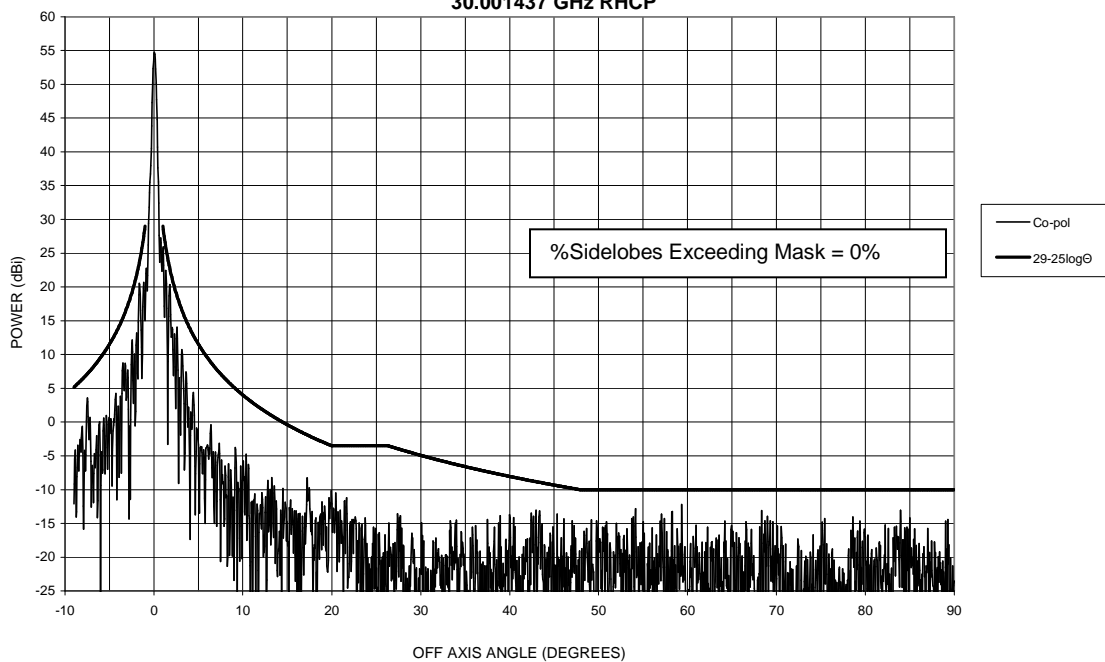
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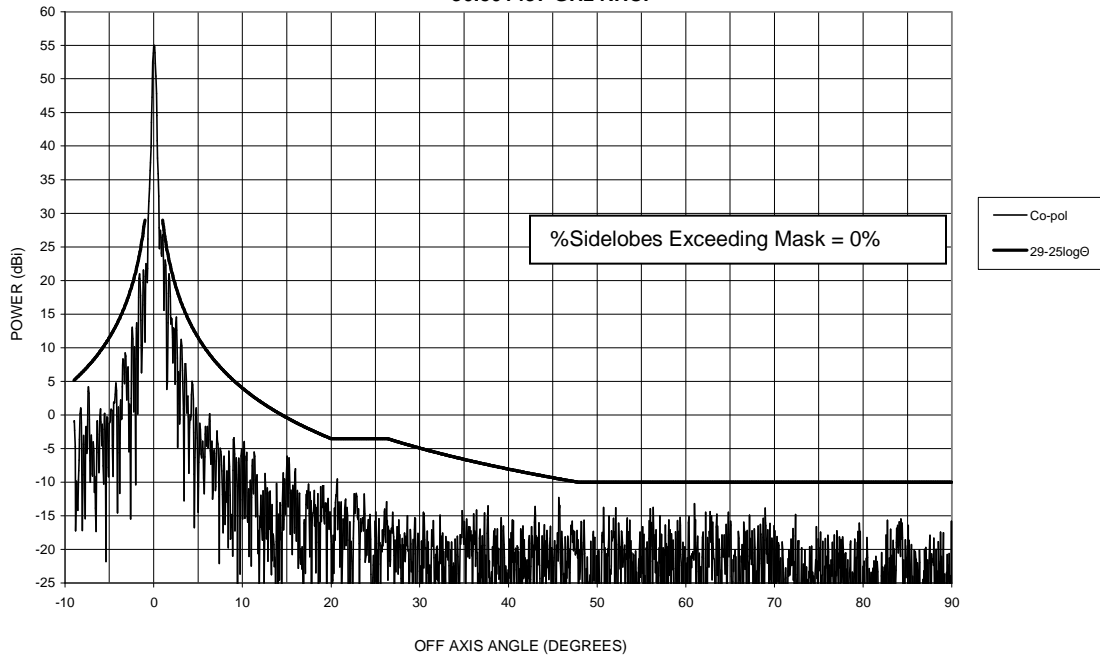
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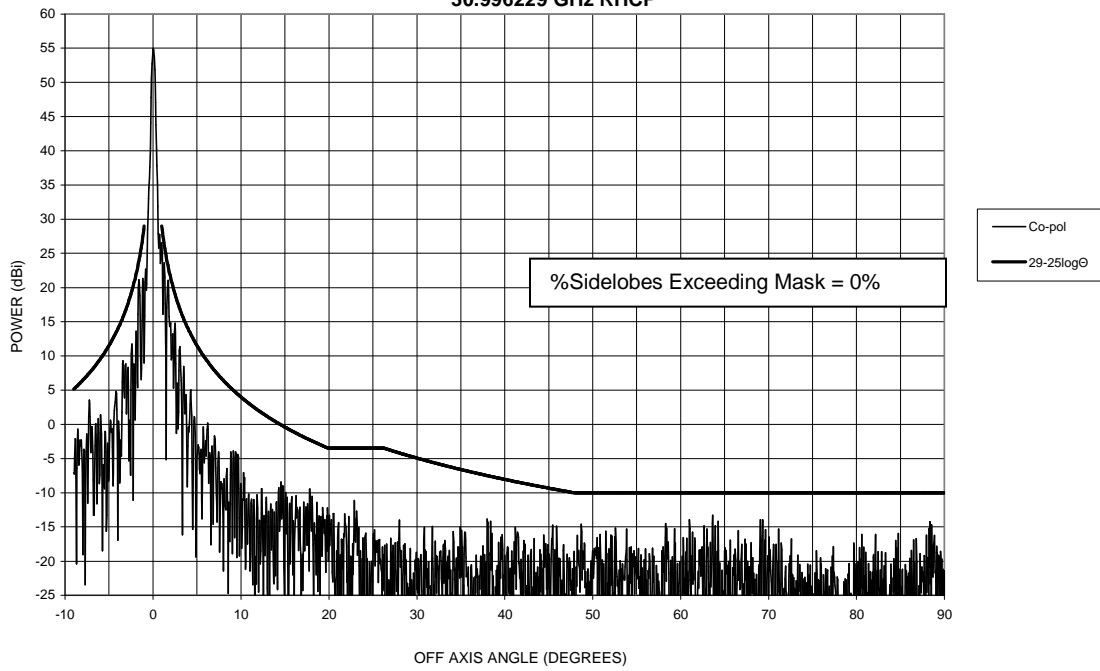
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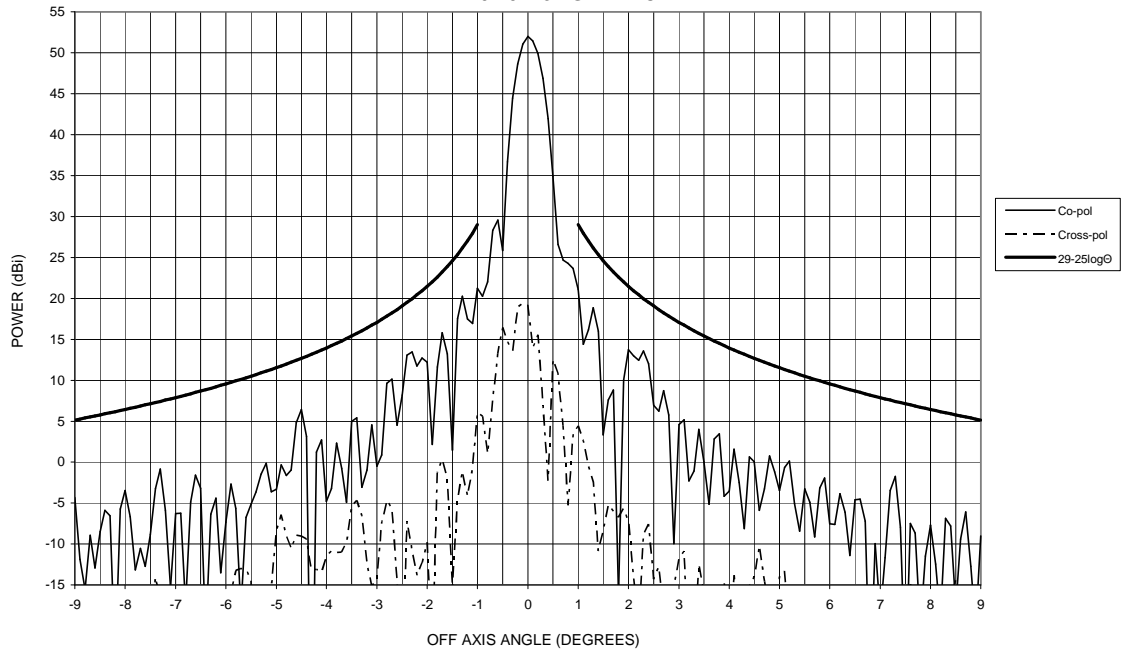


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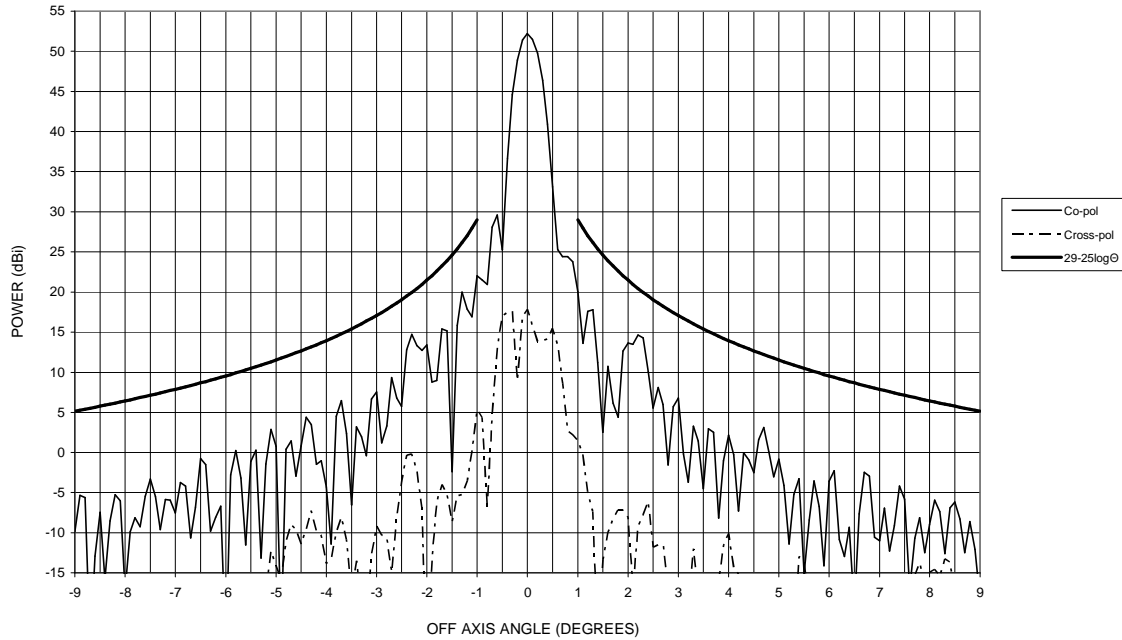
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Receive Band Azimuth Patterns

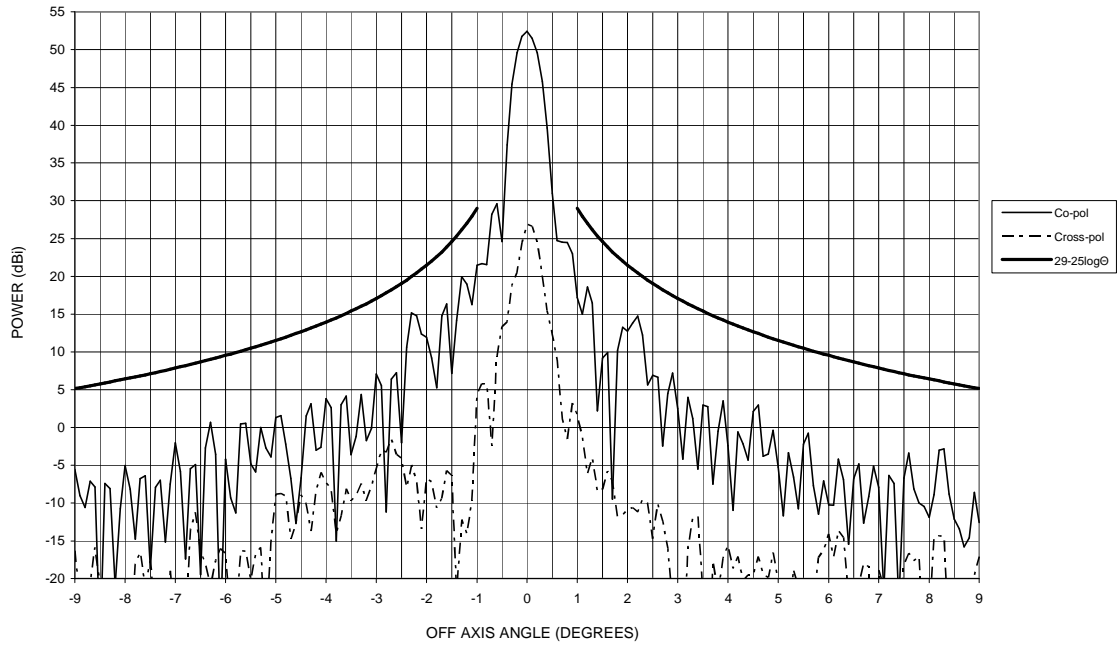
AvL 2.4m Antenna
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Receive Band Azimuth Pattern
20.201437 GHz LHCP



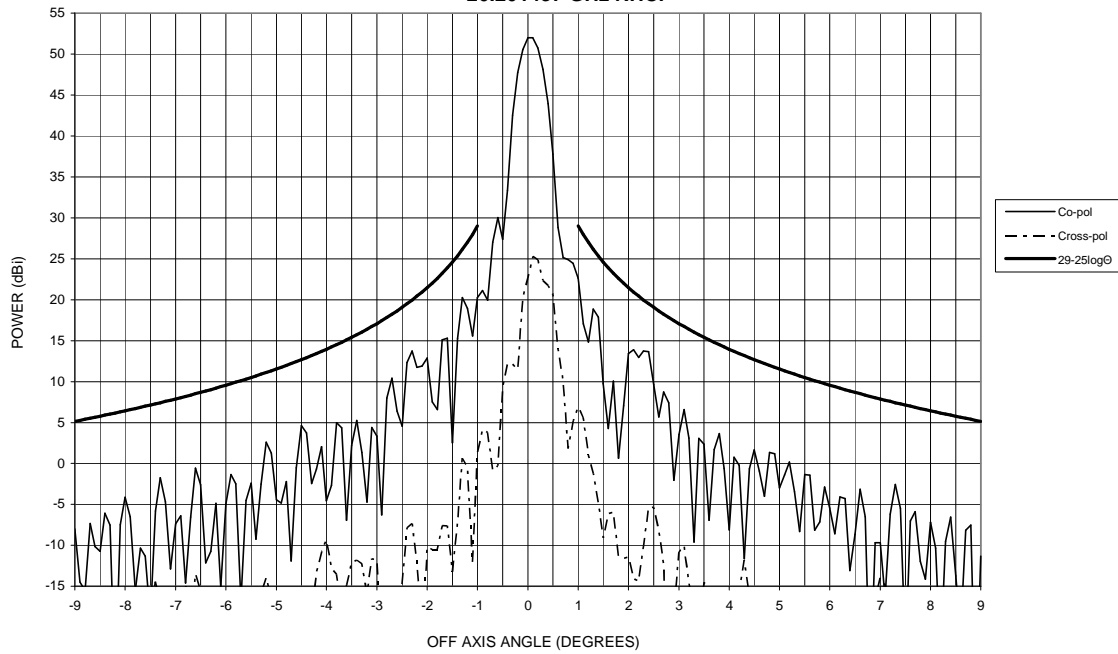
AvL 2.4m Antenna
2-Port Military Ka-band CP Feed
Receive Band Azimuth Pattern
20.711854 GHz LHCP



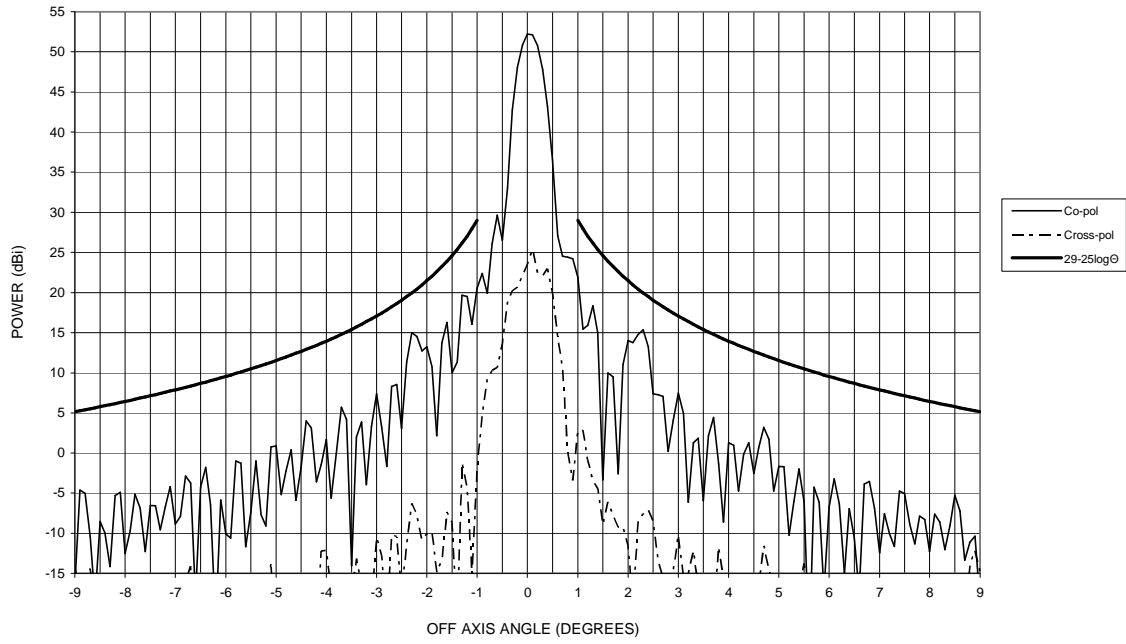
AvL 2.4m Antenna
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Receive Band Azimuth Pattern
21.196229 GHz LHCP



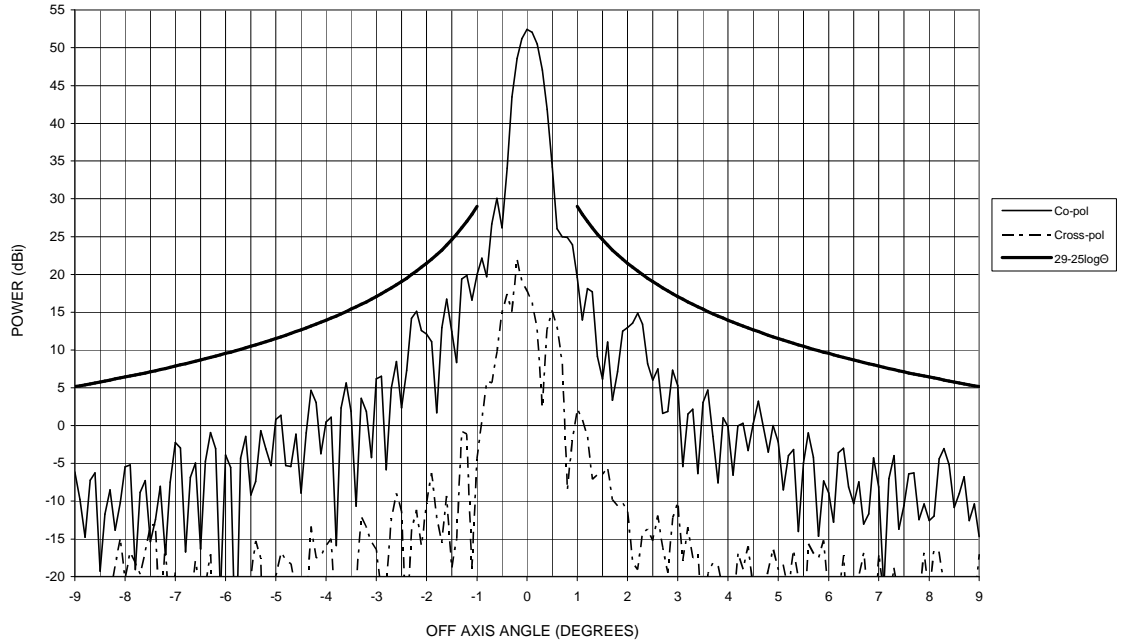
AvL 2.4m Antenna
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20.201437 GHz RHCP



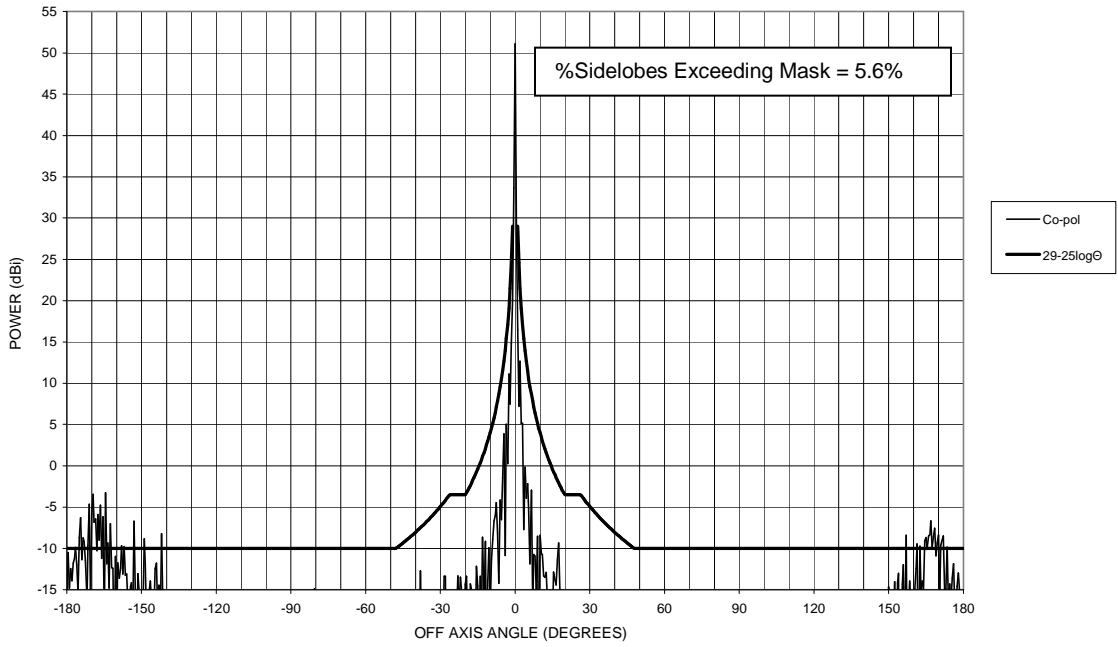
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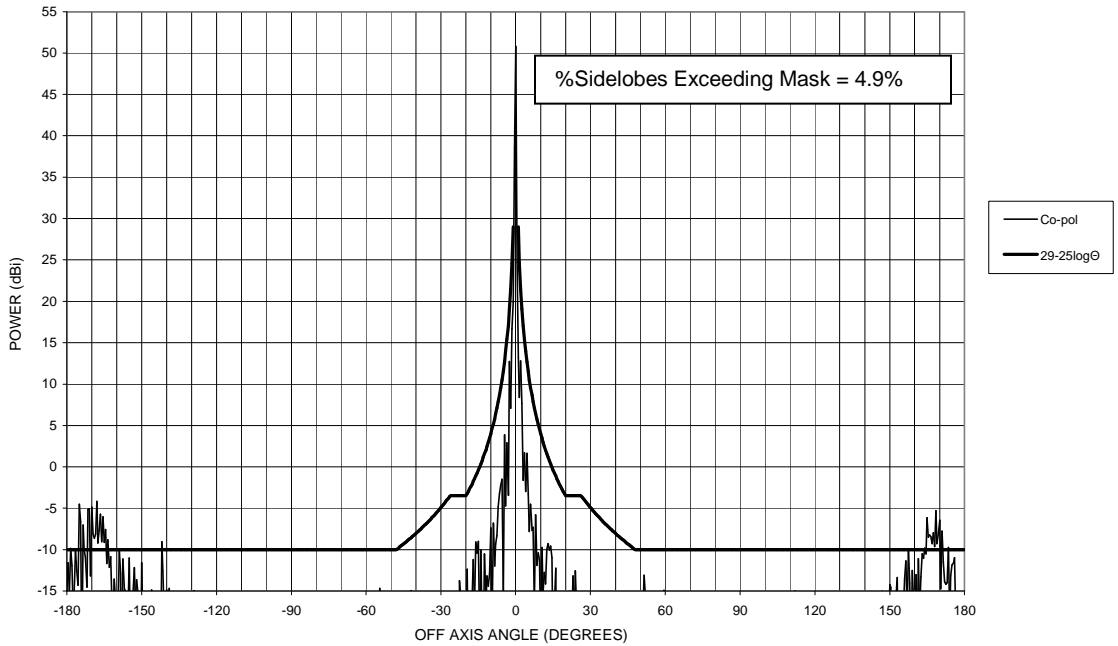
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21.196229 GHz RHCP



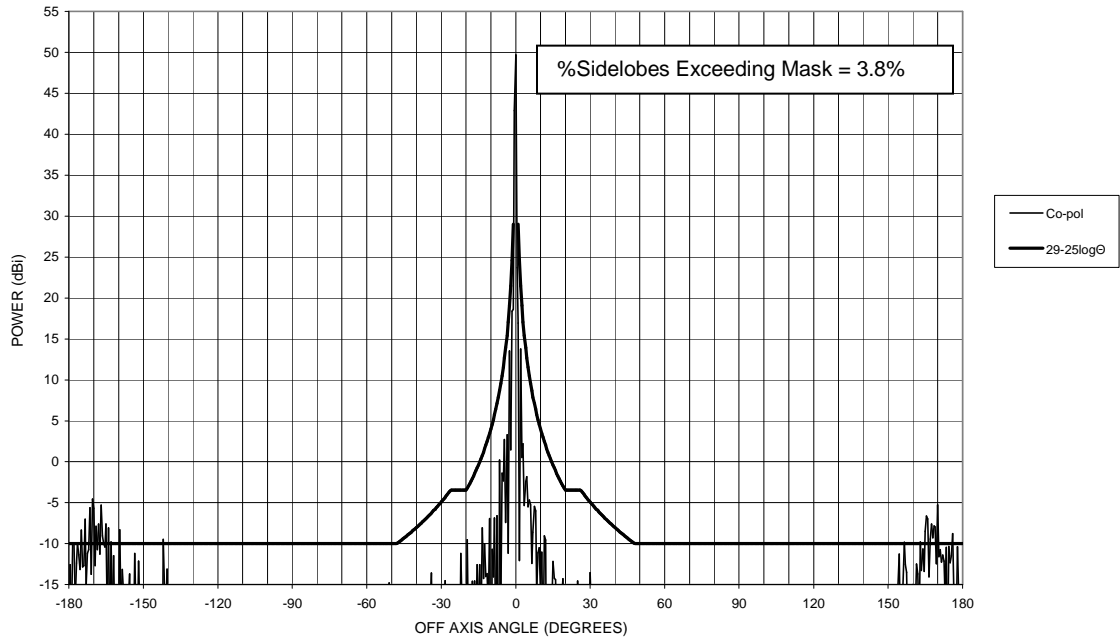
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20.201437 GHz LHCP



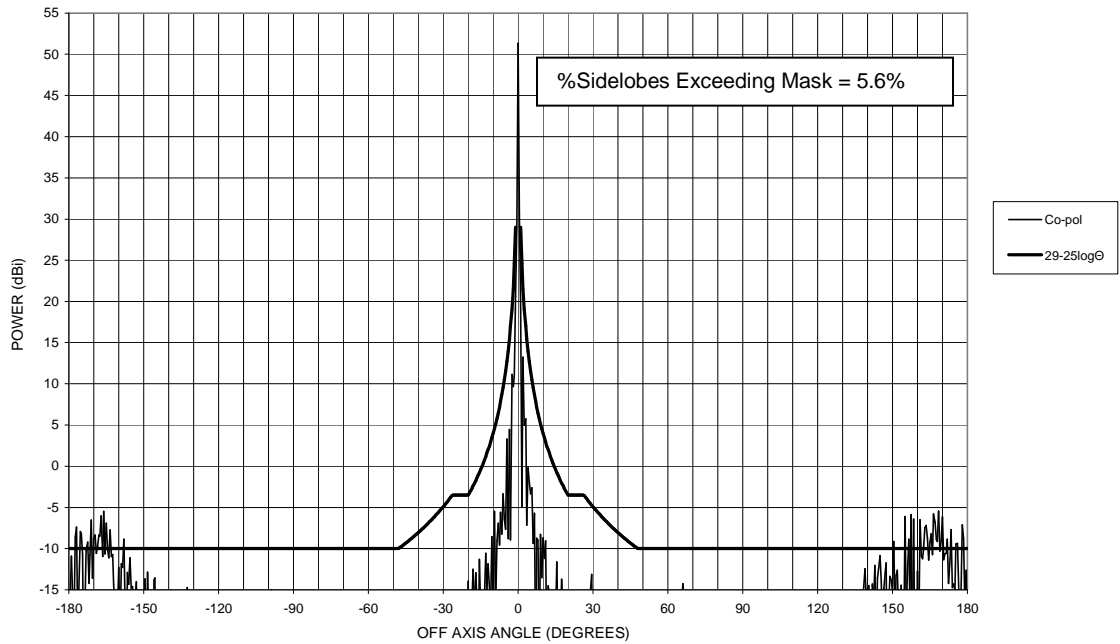
AvL 2.4m Antenna
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Receive Band Azimuth Pattern
20.711854 GHz LHCP



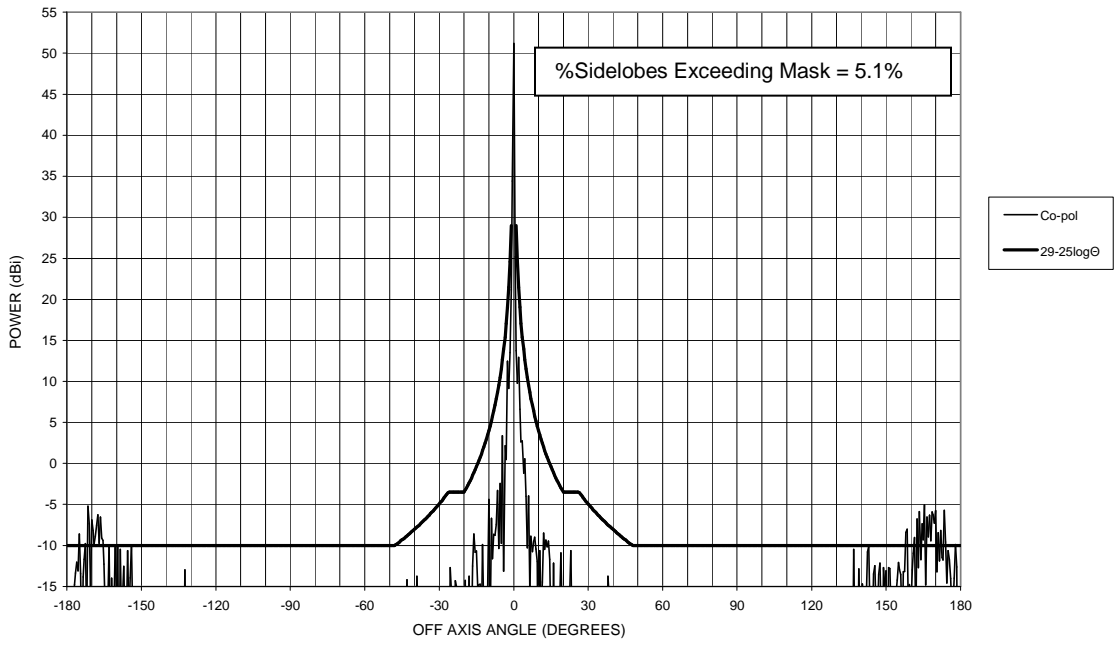
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21.196229 GHz LHCP



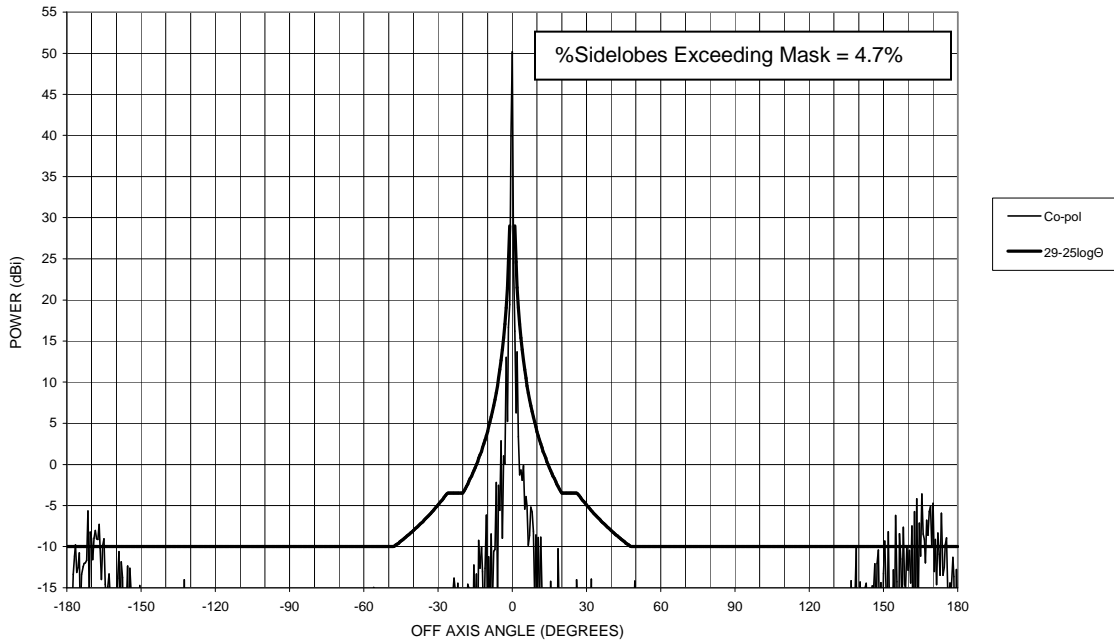
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AvL 2.4m Antenna
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20.711854 GHz RHCP



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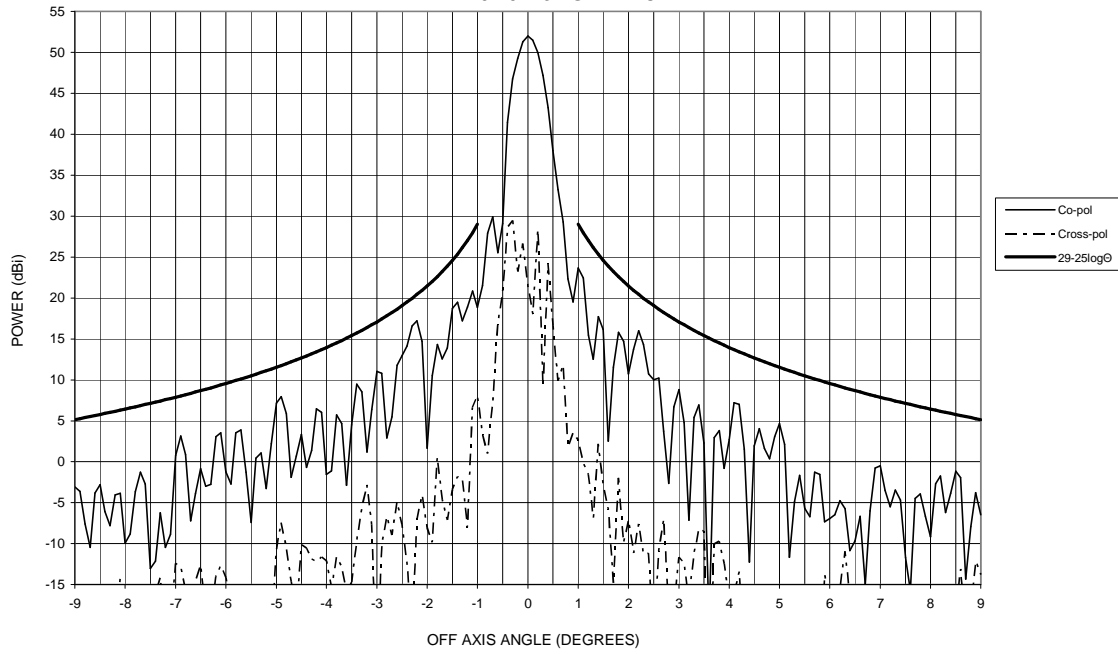


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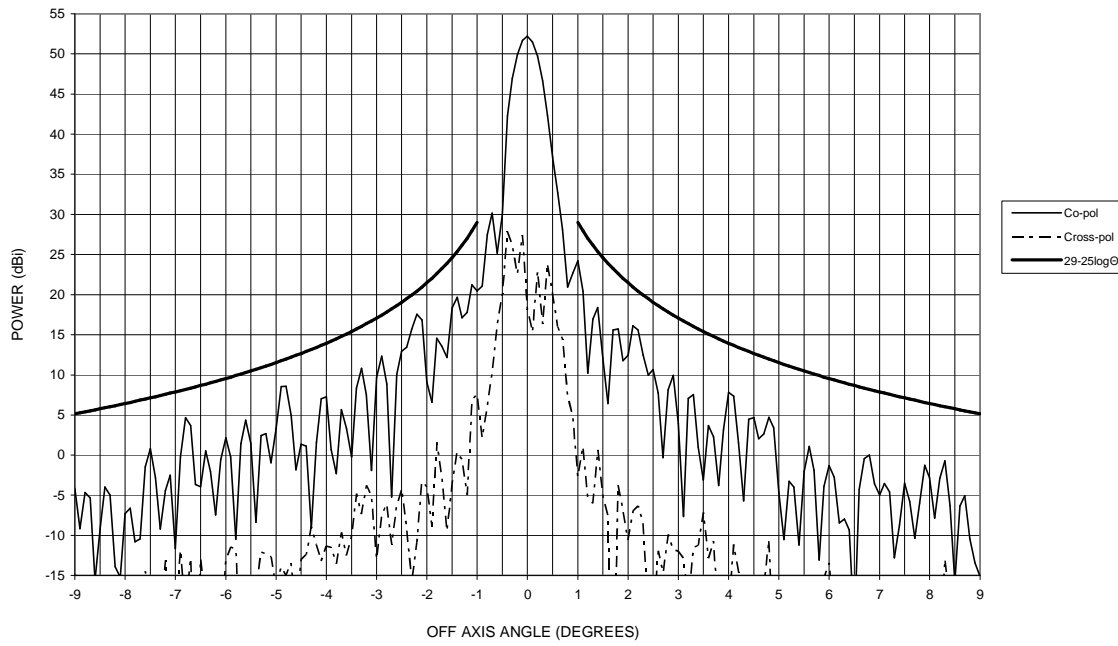
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Receive Band Elevation Patterns

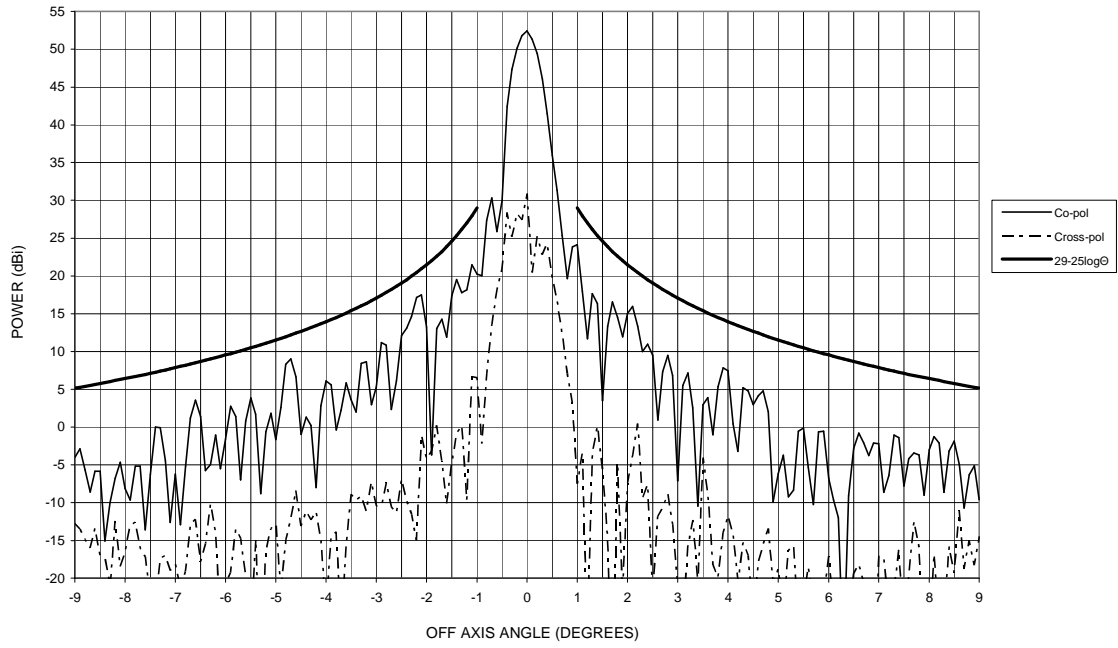
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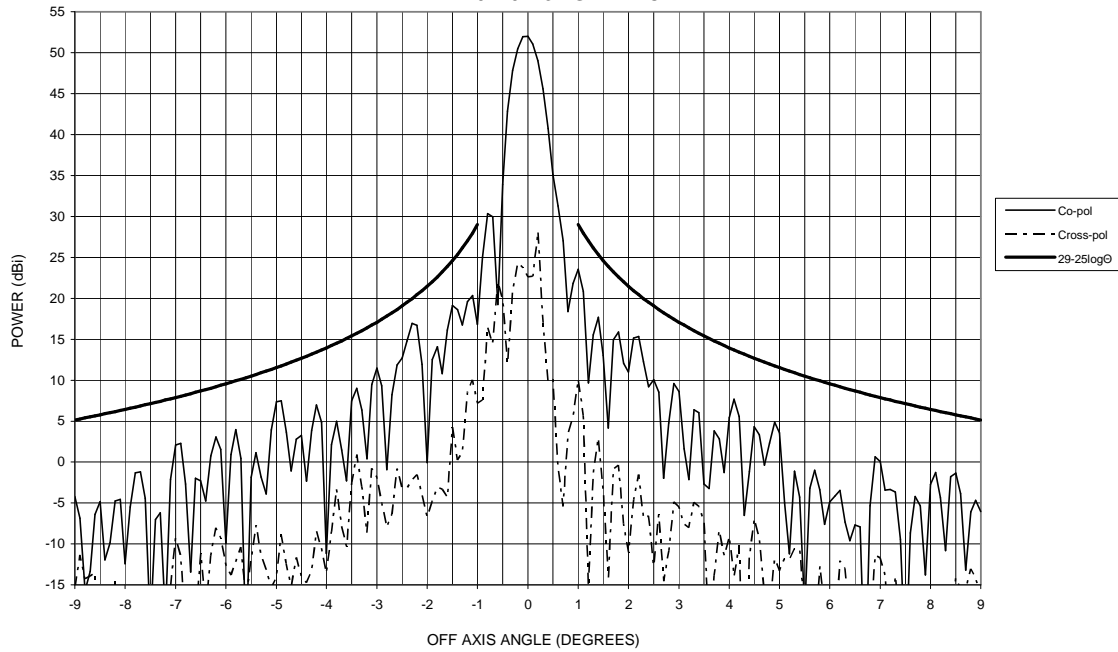
AvL 2.4m Antenna
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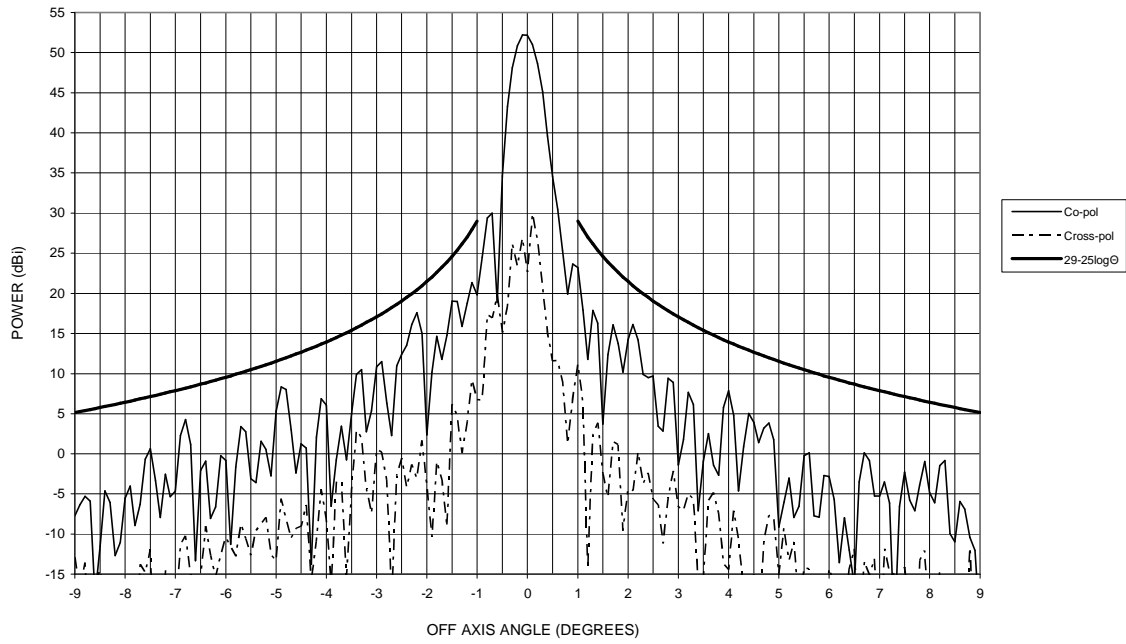
**AvL 2.4m Antenna
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Receive Band Elevation Pattern
21.196229 GHz LHCP**



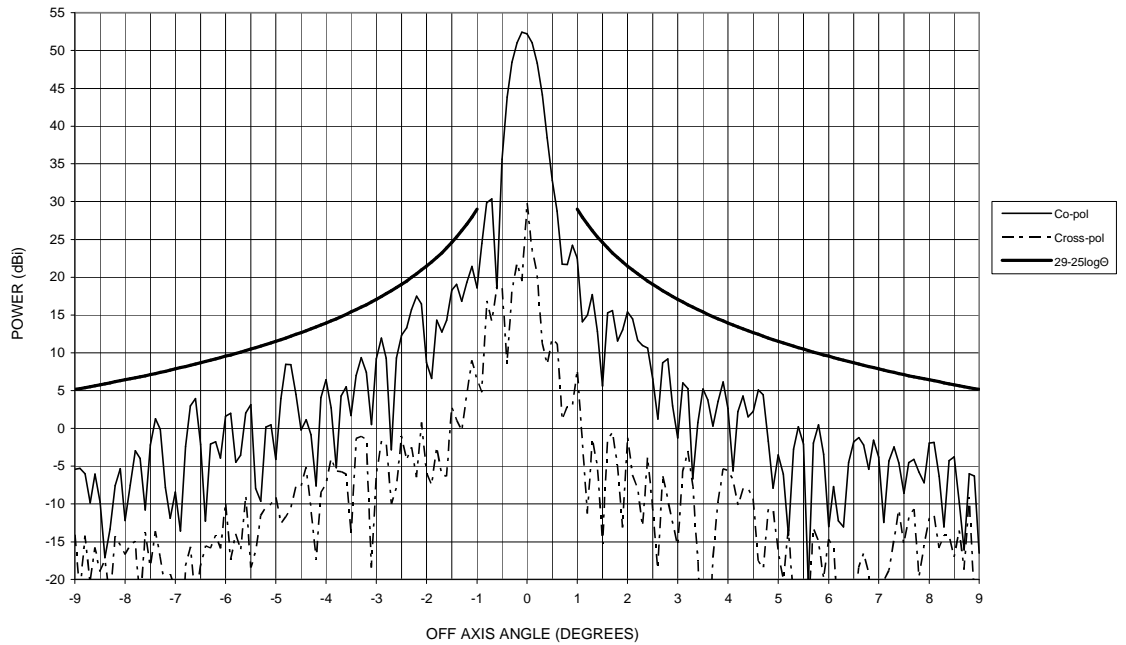
**AvL 2.4m Antenna
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Receive Band Elevation Pattern
20.201437 GHz RHCP**



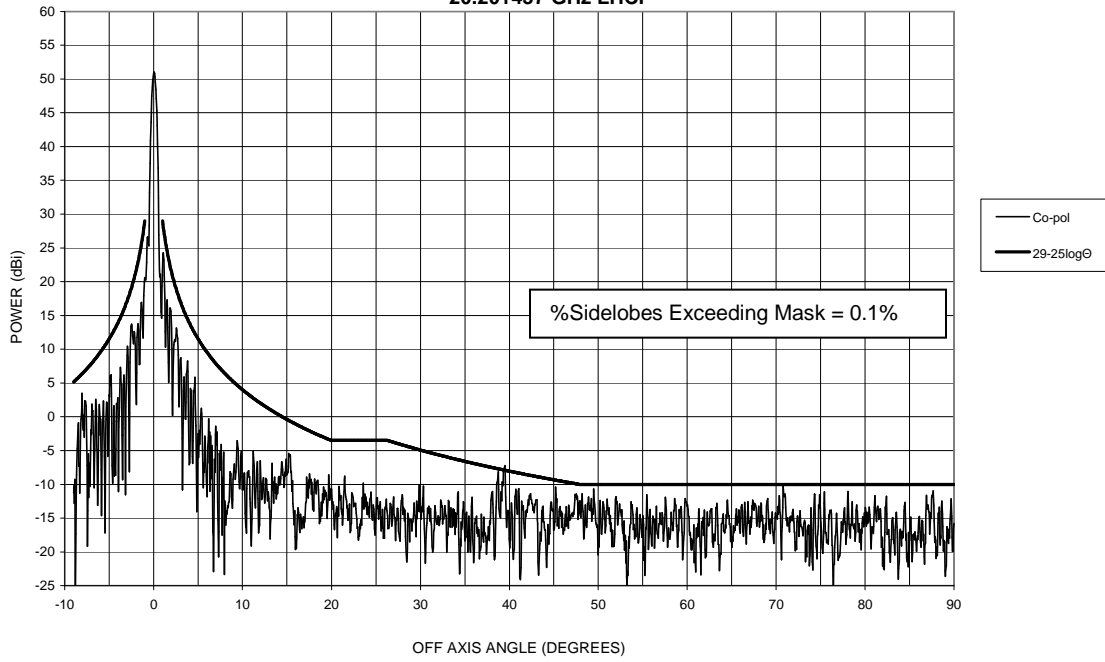
AvL 2.4m Antenna
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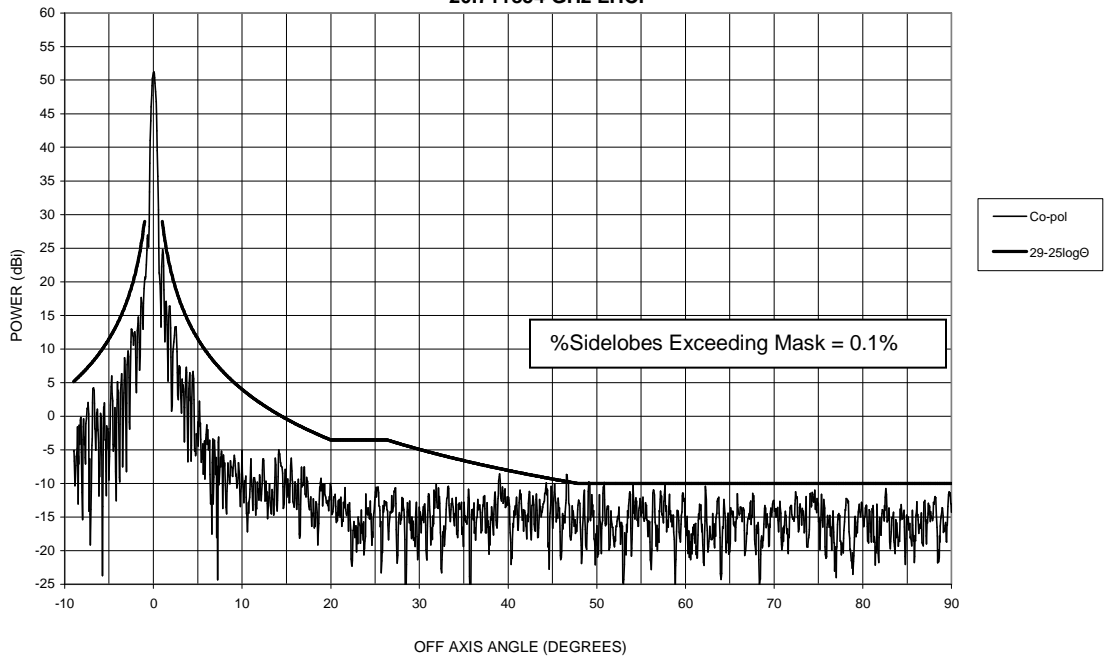
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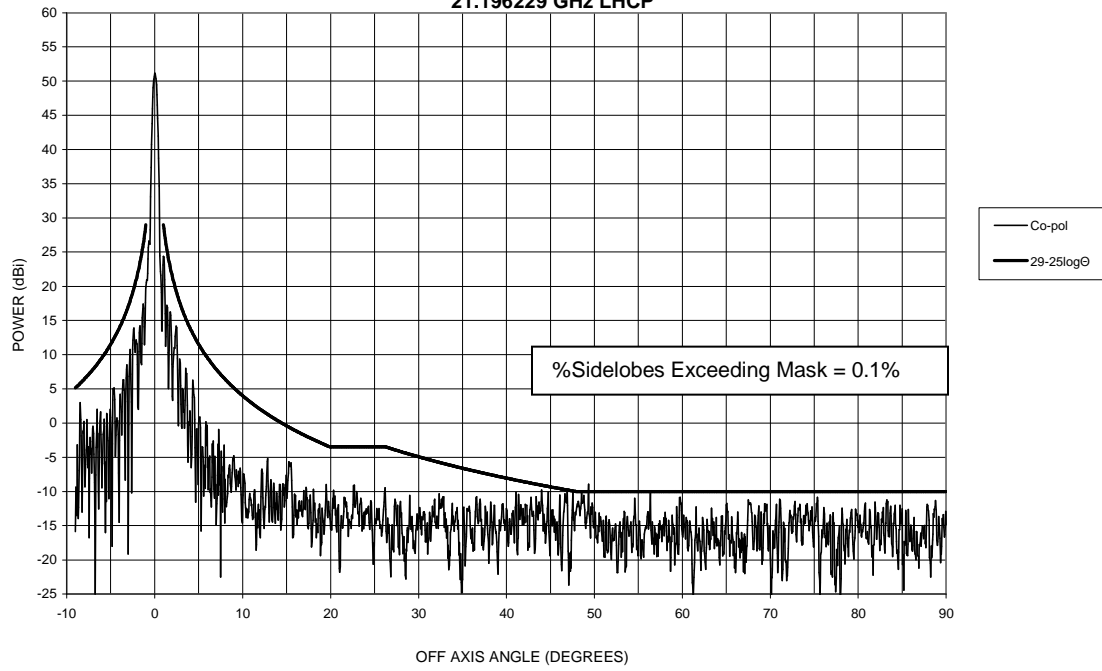
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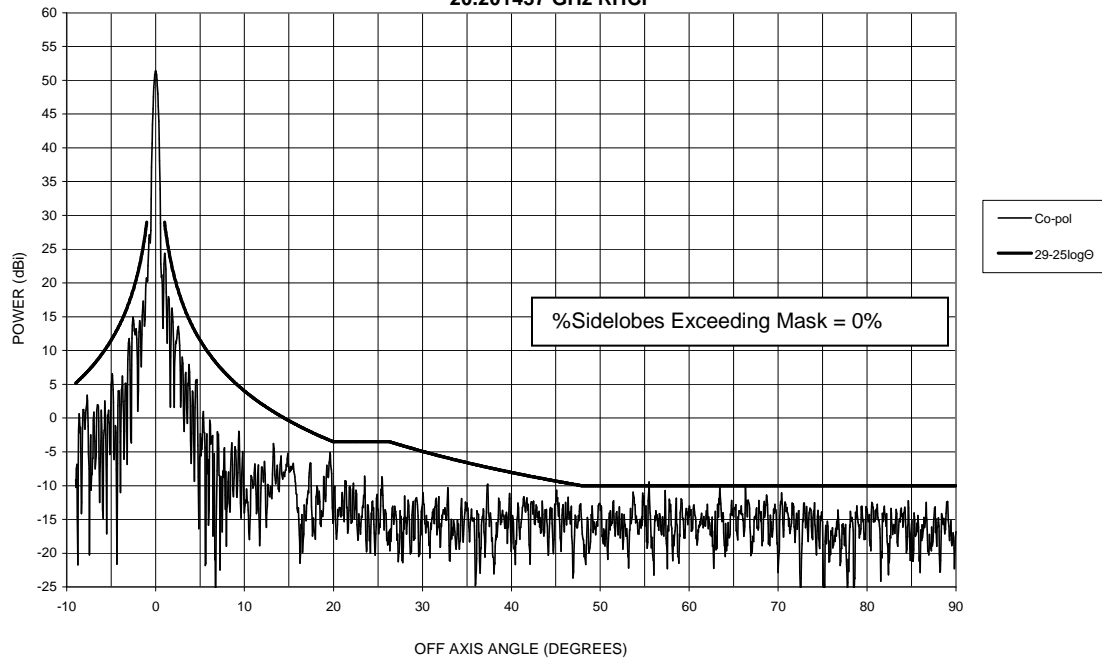
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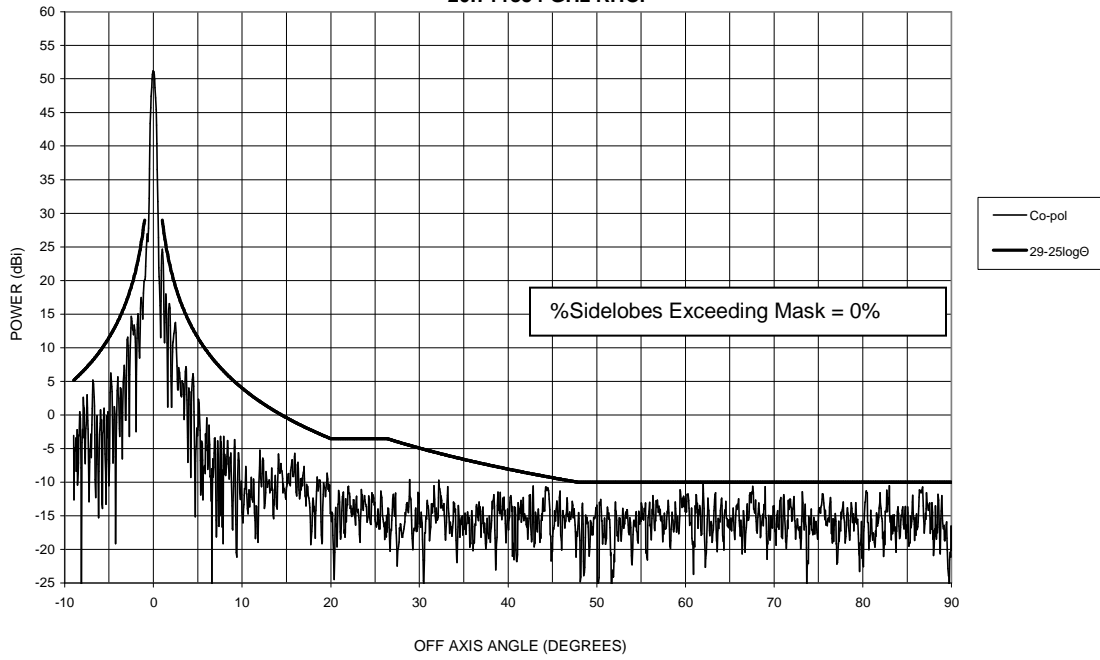
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