

**AvL Technologies**  
2.2m Ka Band Antenna  
o3b Feed

## AvL 2.2m Ka Band Antenna Performance Summary

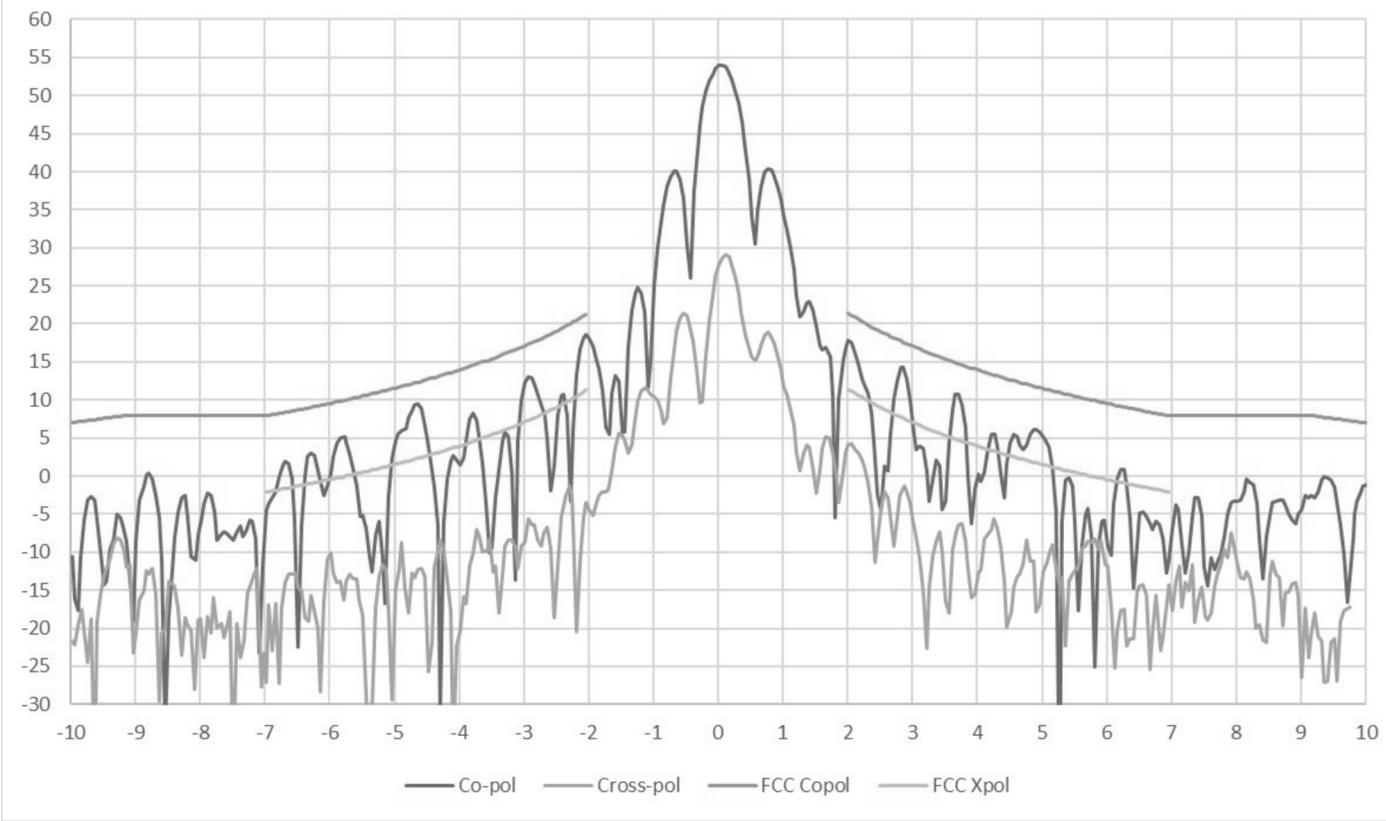
RX Band On-axis Gain and Axial Ratio			
Frequency	17.835 GHz	18.568 GHz	19.3 GHz
Gain, dBi	50.2	50.5	50.9
LHCP Axial Ratio, dB	0.98	0.38	0.62
RHCP Axial Ratio, dB	0.88	0.86	0.93

TX Band On-axis Gain and Axial Ratio			
Frequency	27.635 GHz	28.363 GHz	29.09 GHz
Gain, dBi	54.0	54.2	54.4
LHCP Axial Ratio, dB	0.85	0.98	0.95
RHCP Axial Ratio, dB	0.62	0.9	0.97

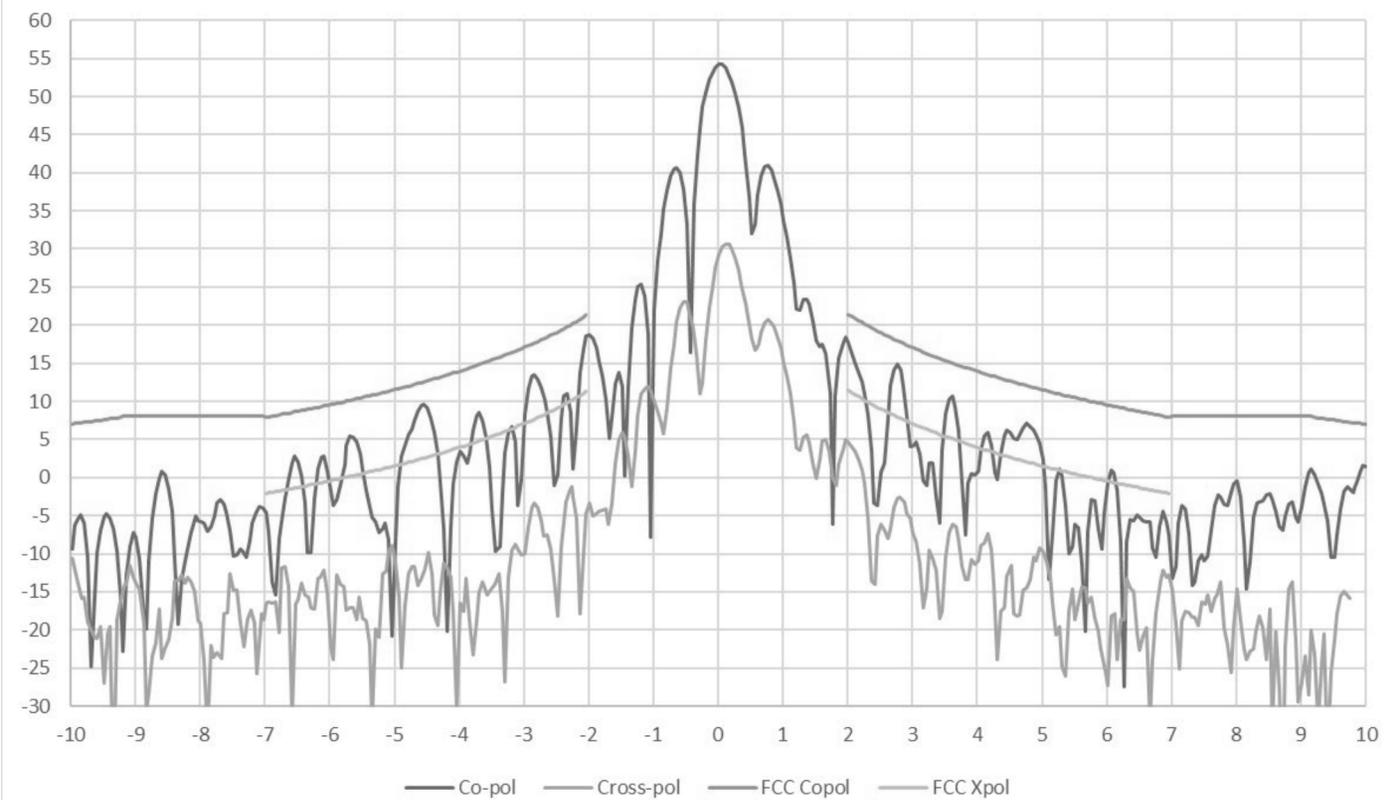
# 2.2m Ka Band Antenna

## Transmit Band Azimuth Patterns

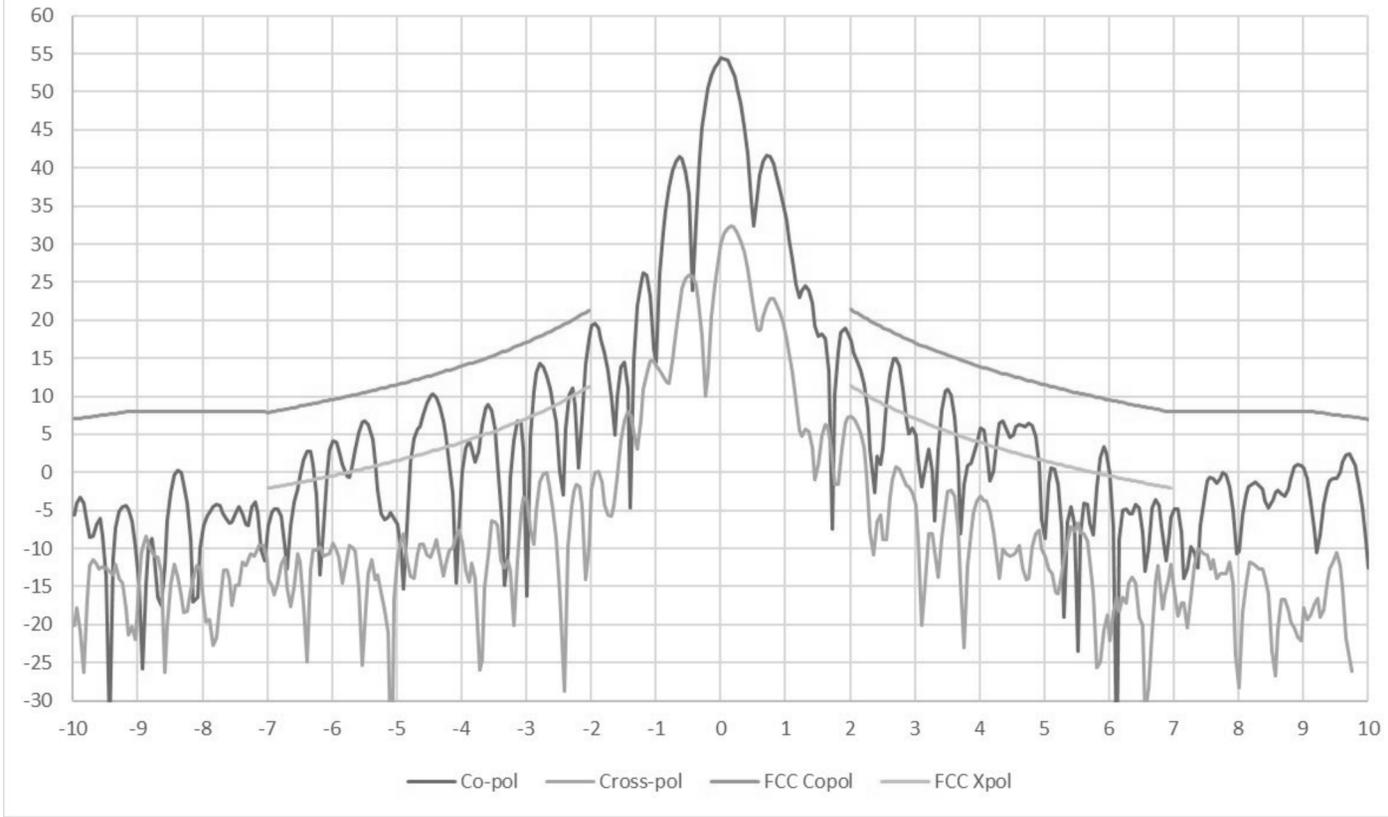
AvL 2.2m Ka Band Antenna  
27.635 GHz LHCP



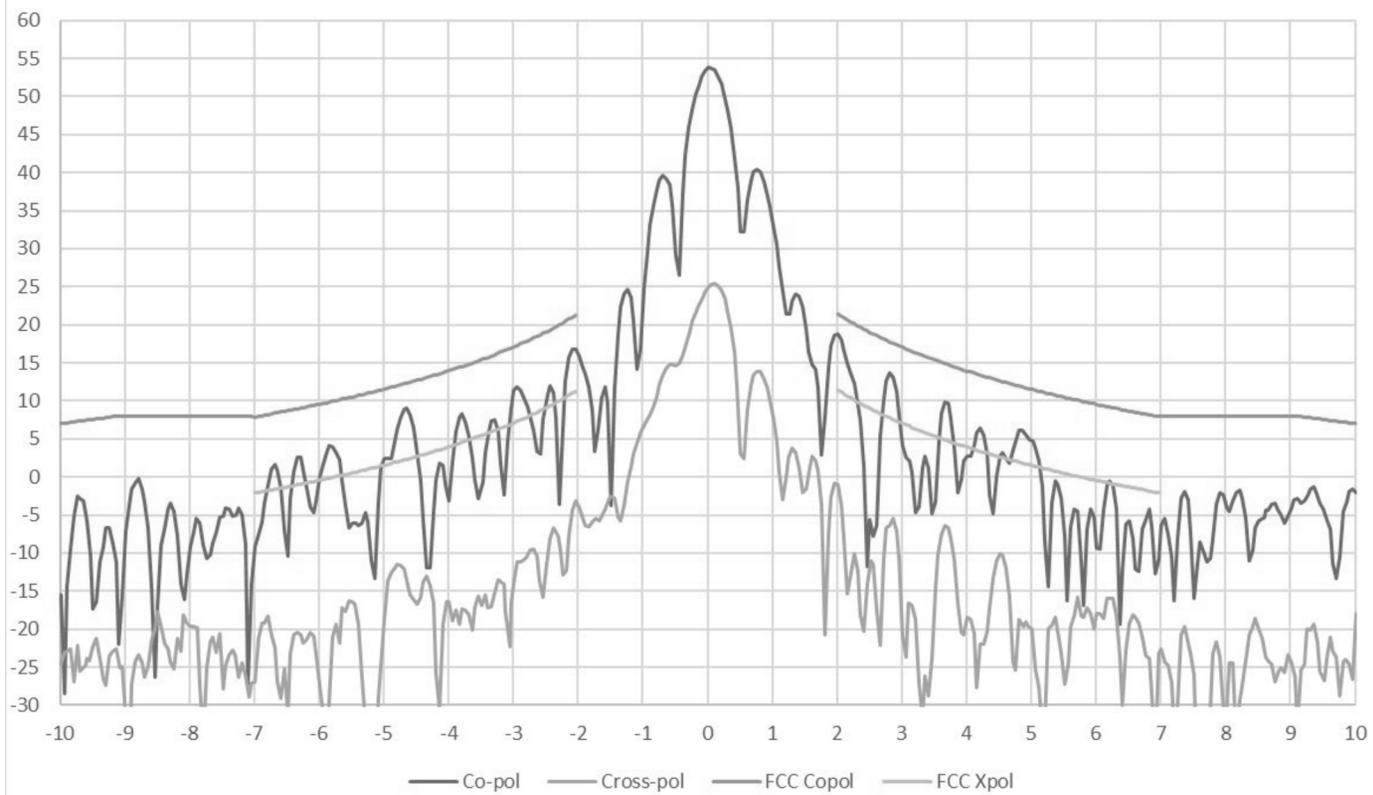
AvL 2.2m Ka Band Antenna  
28.363 GHz LHCP



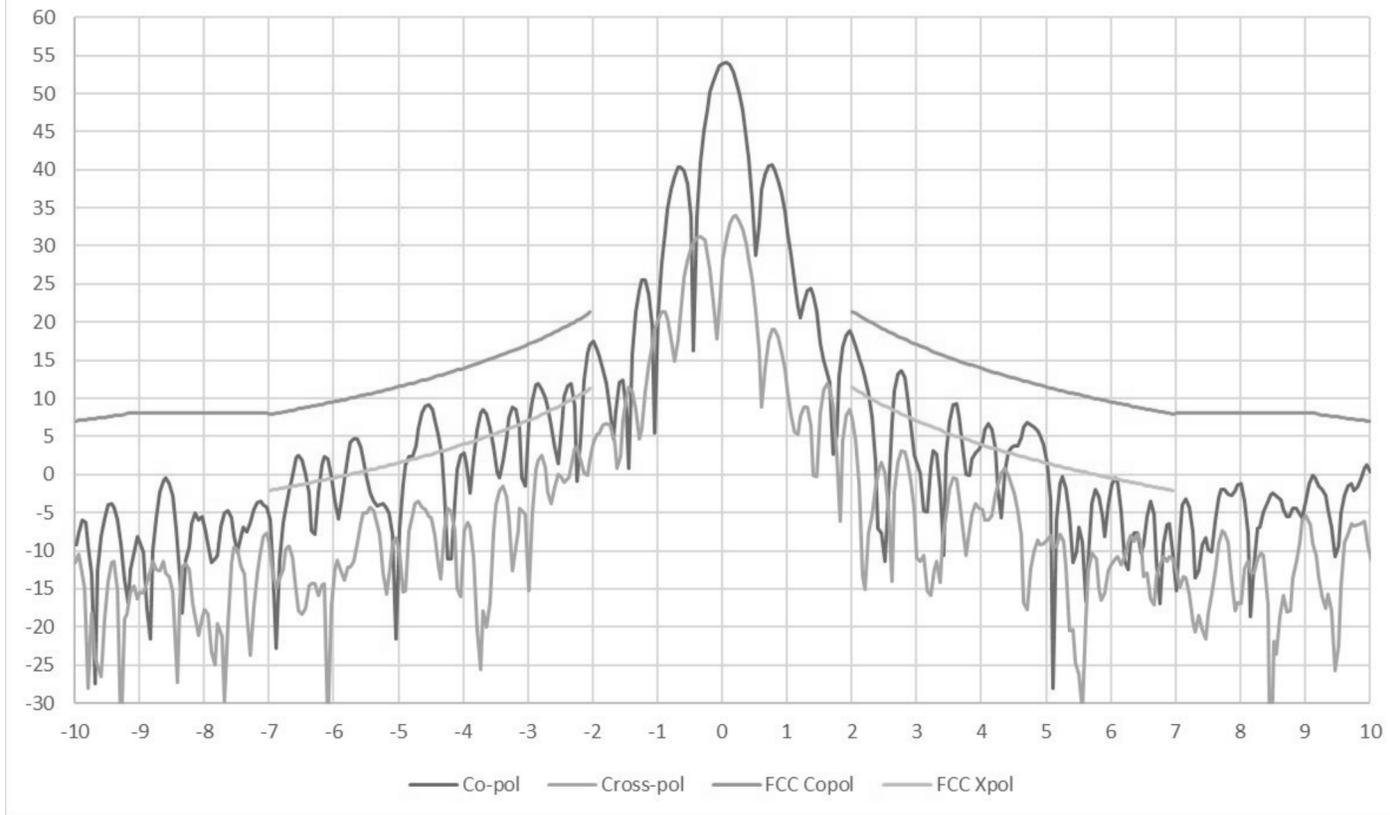
AvL 2.2m Ka Band Antenna  
29.09 GHz LHCP



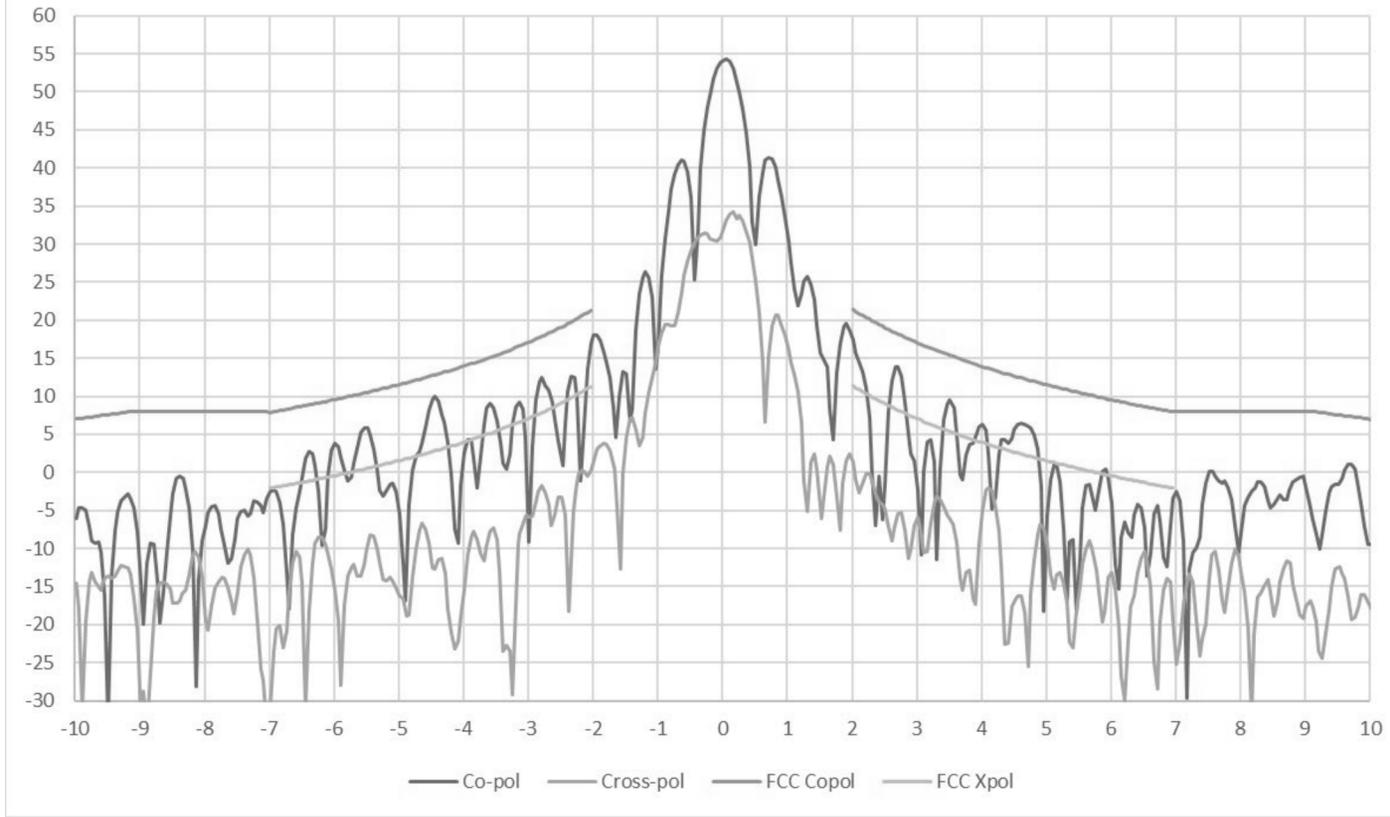
AvL 2.2m Ka Band Antenna  
27.635 GHz RHCP Azimuth Pattern



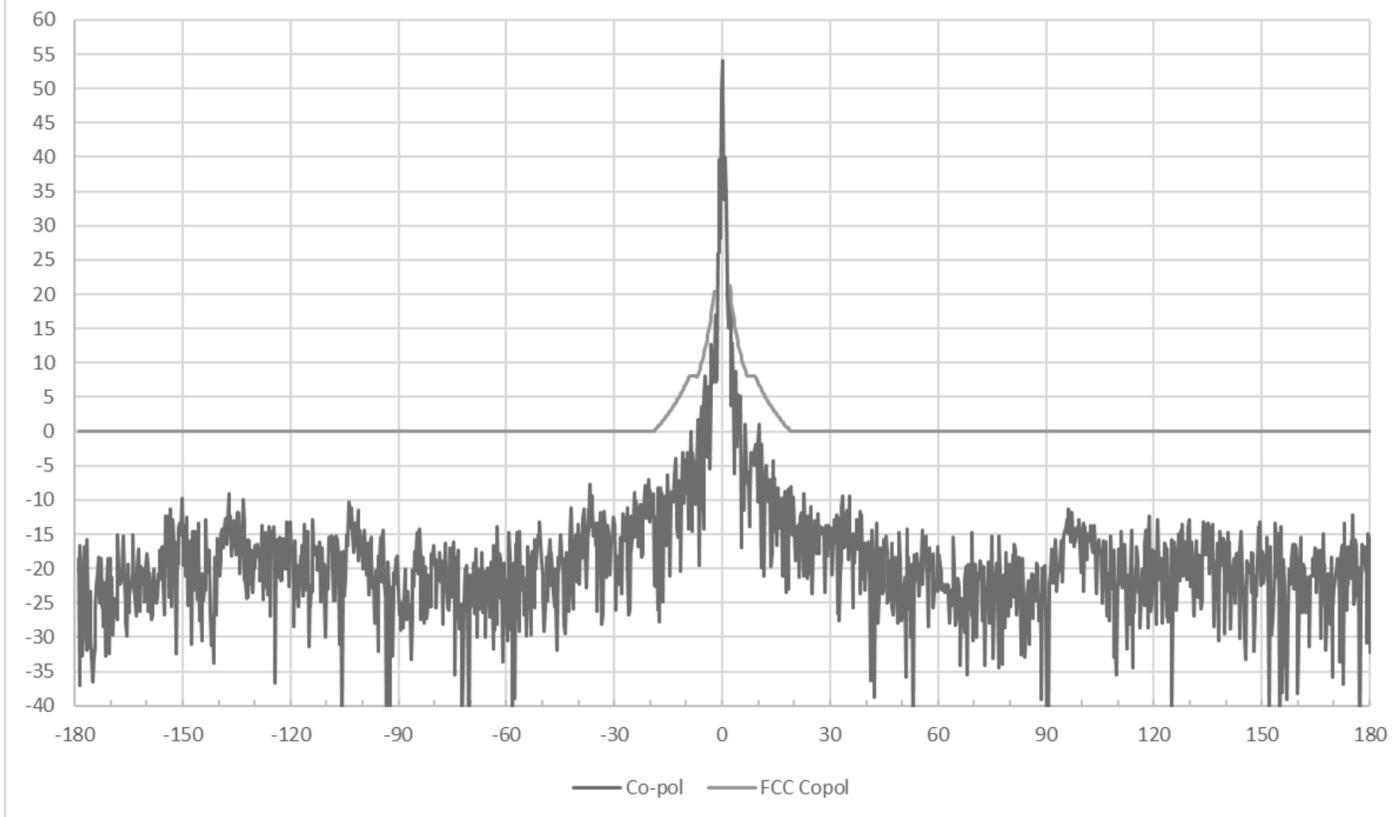
AvL 2.2m Ka Band Antenna  
28.363 GHz RHCP Azimuth Pattern



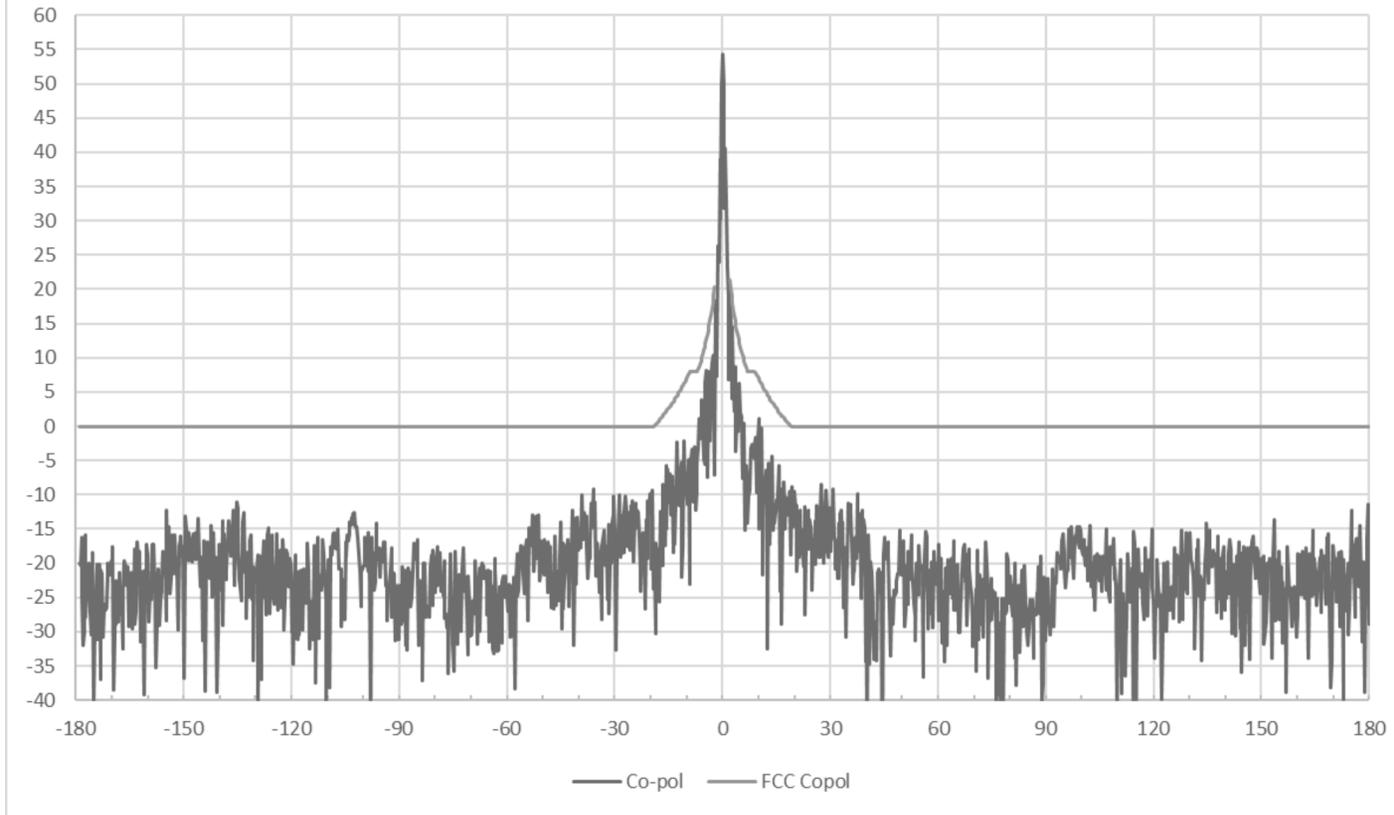
AvL 2.2m Ka Band Antenna  
29.09 GHz RHCP Azimuth Pattern



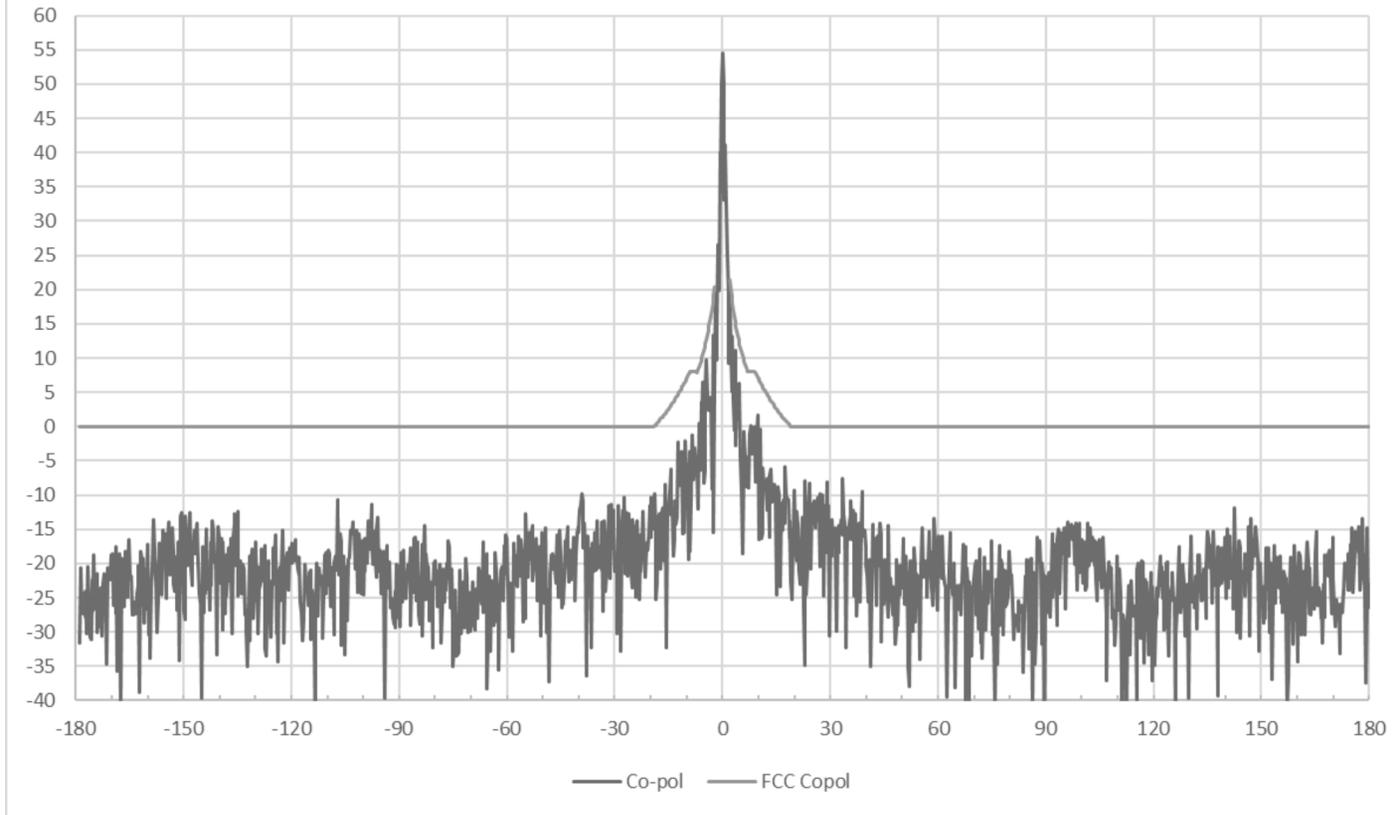
AvL 2.2m Ka Band Antenna  
27.635 GHz LHCP Azimuth Pattern



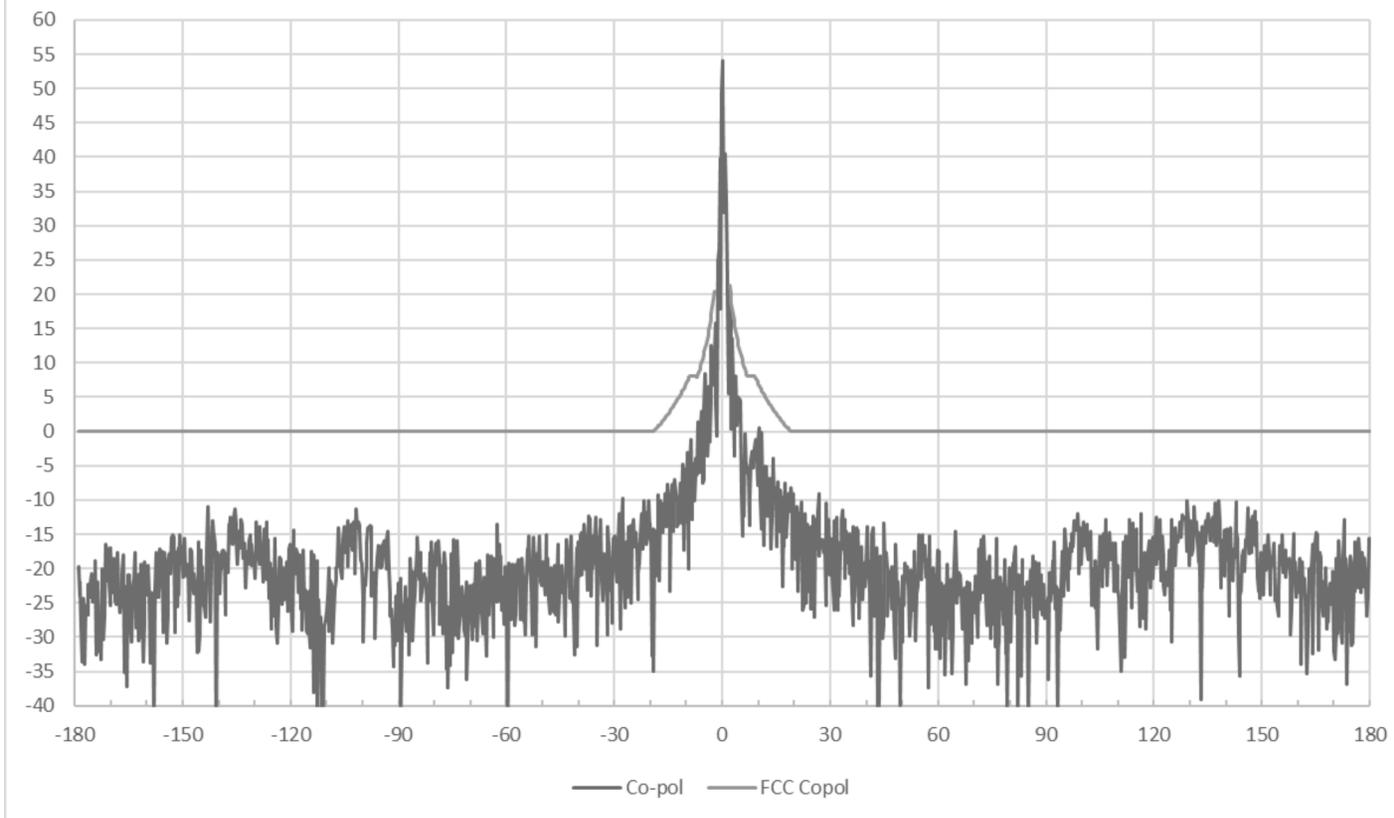
AvL 2.2m Ka Band Antenna  
28.363 GHz LHCP Azimuth Pattern



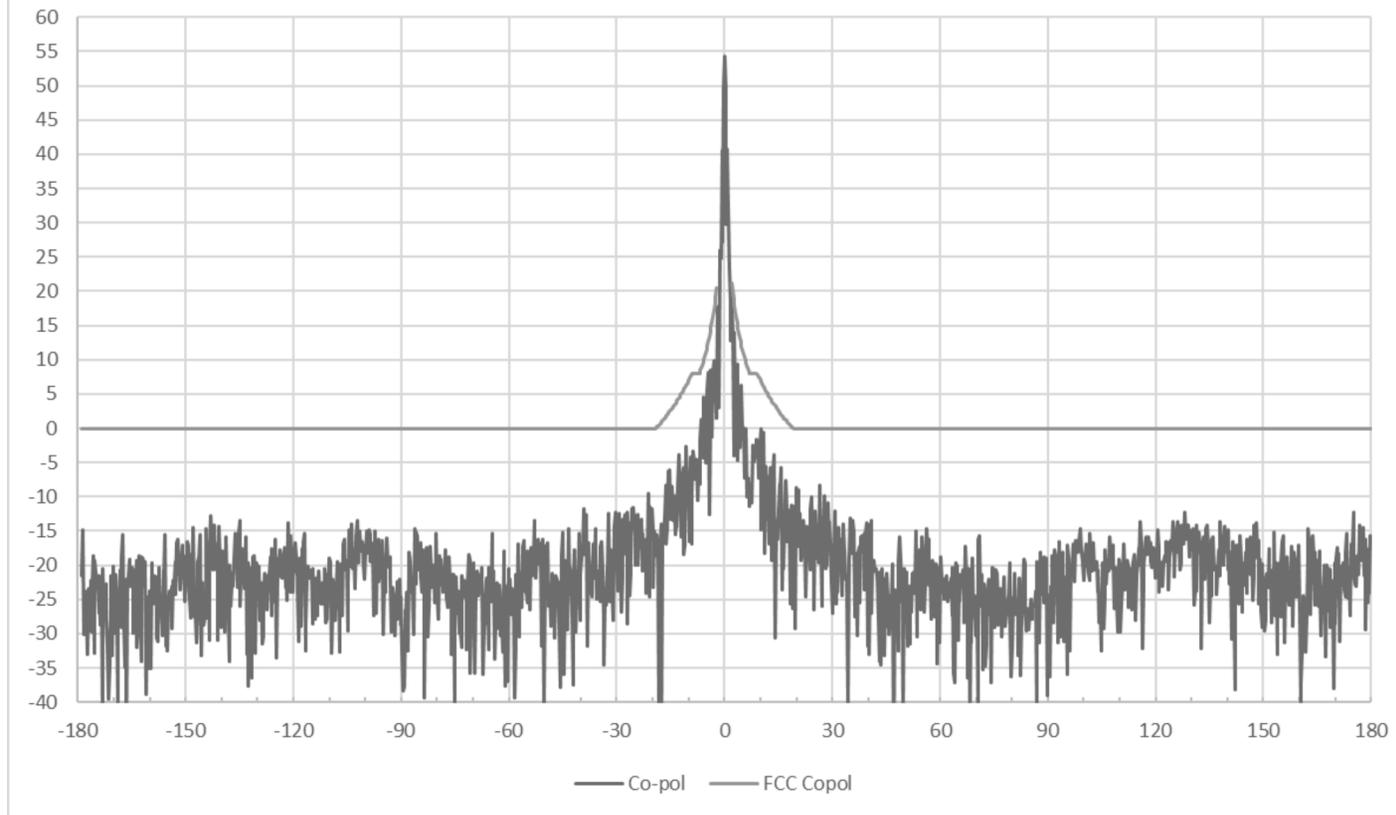
AvL 2.2m Ka Band Antenna  
29.09 GHz LHCP Azimuth Pattern



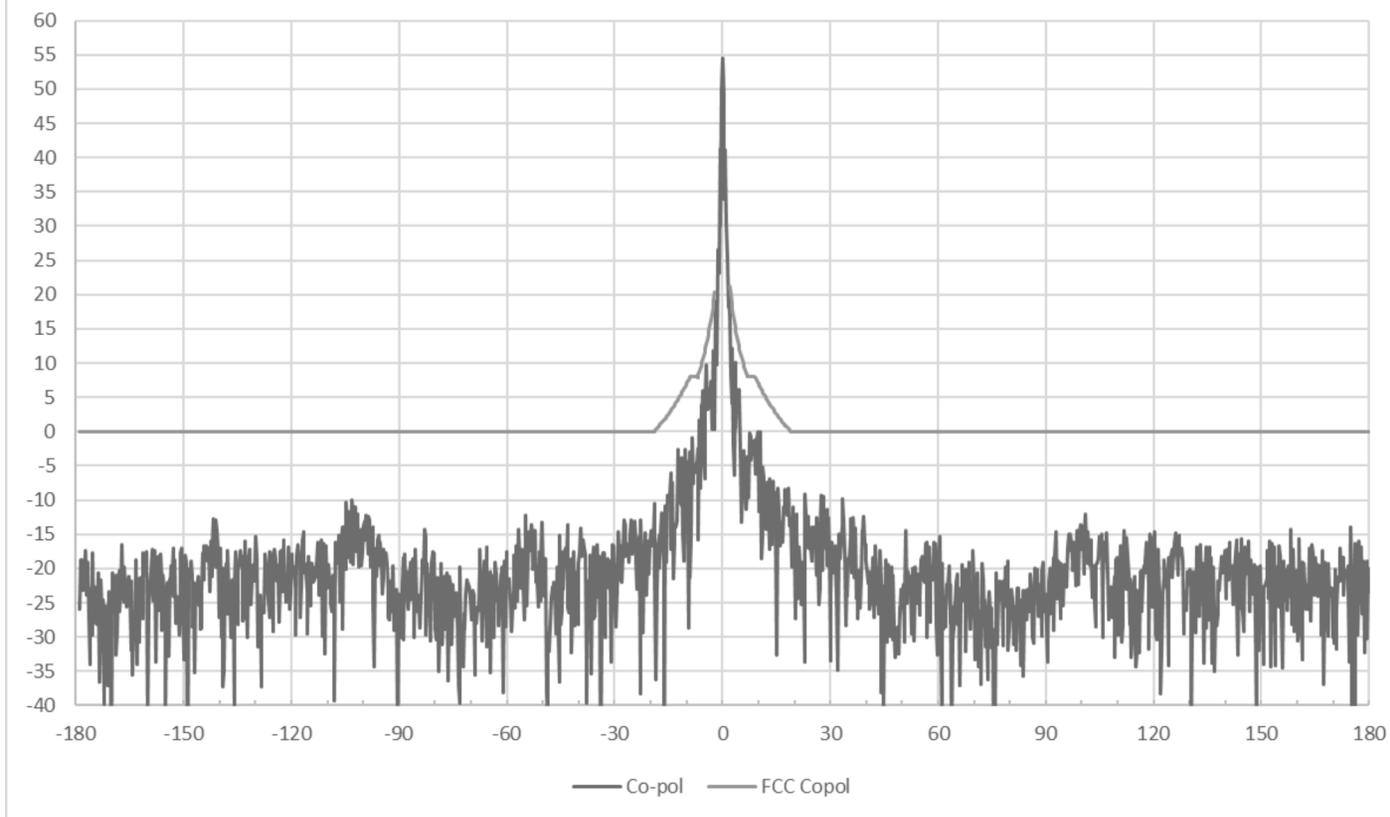
AvL 2.2m Ka Band Antenna  
27.635 GHz RHCP Azimuth Pattern



AvL 2.2m Ka Band Antenna  
28.363 GHz RHCP Azimuth Pattern



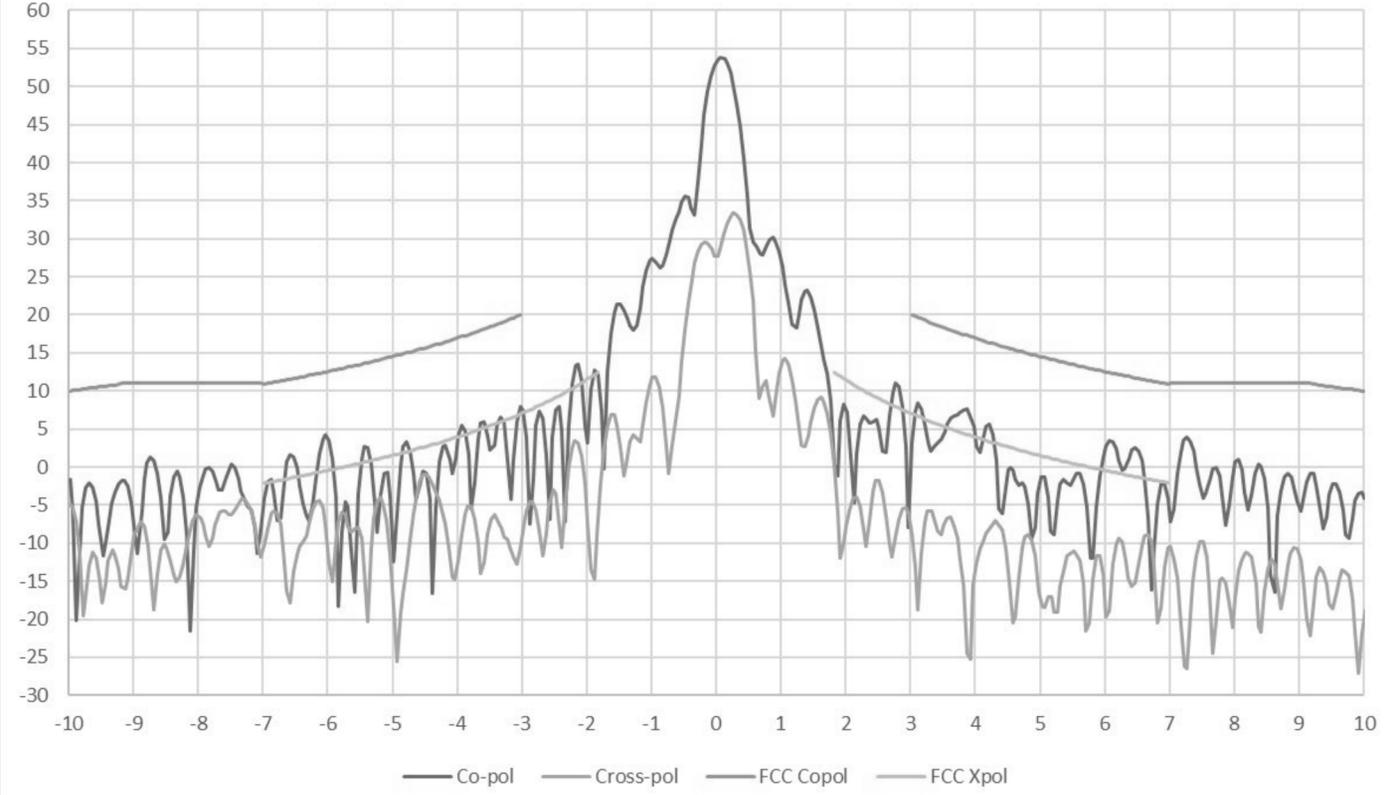
AvL 2.2m Ka Band Antenna  
29.09 GHz RHCP Azimuth Pattern



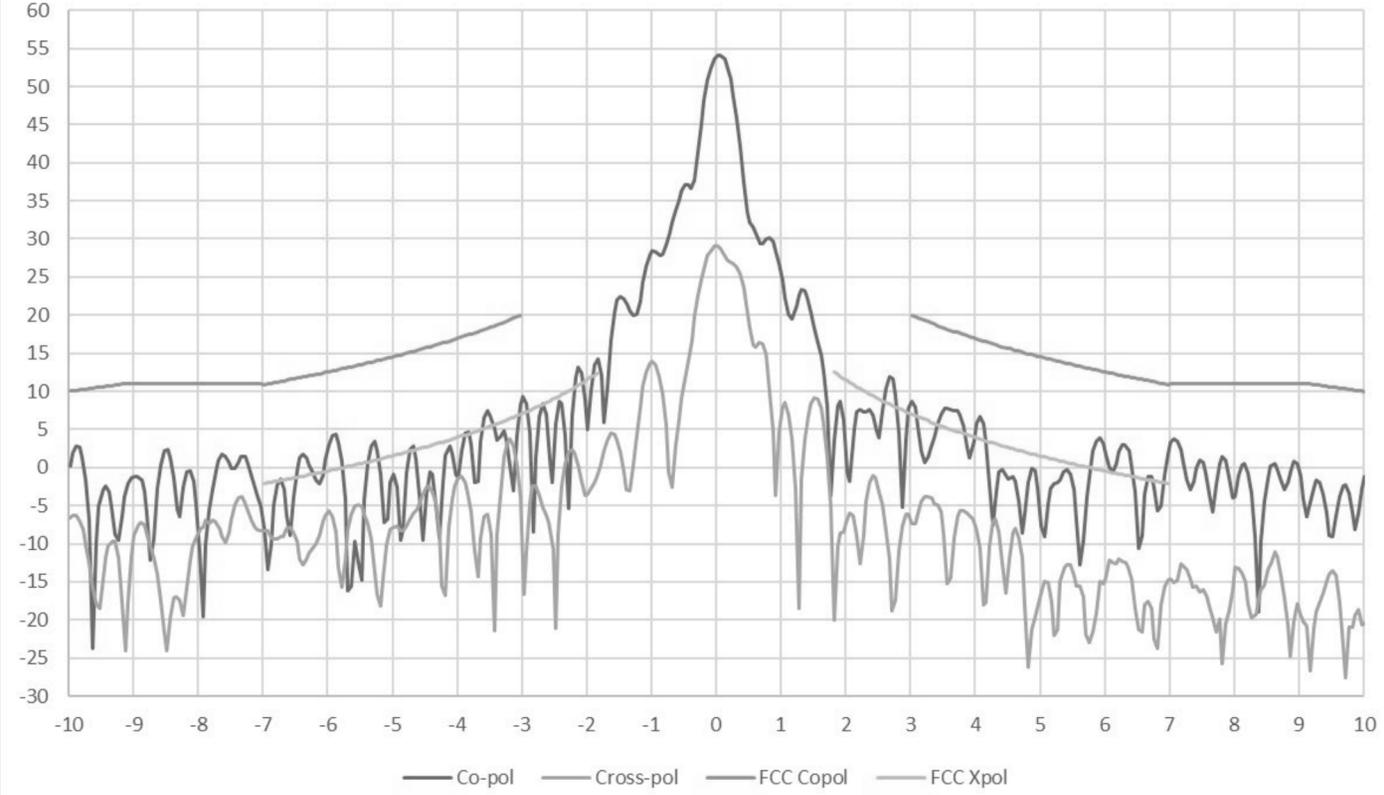
## 2.2m Ka Band Antenna

Transmit Band Elevation Patterns

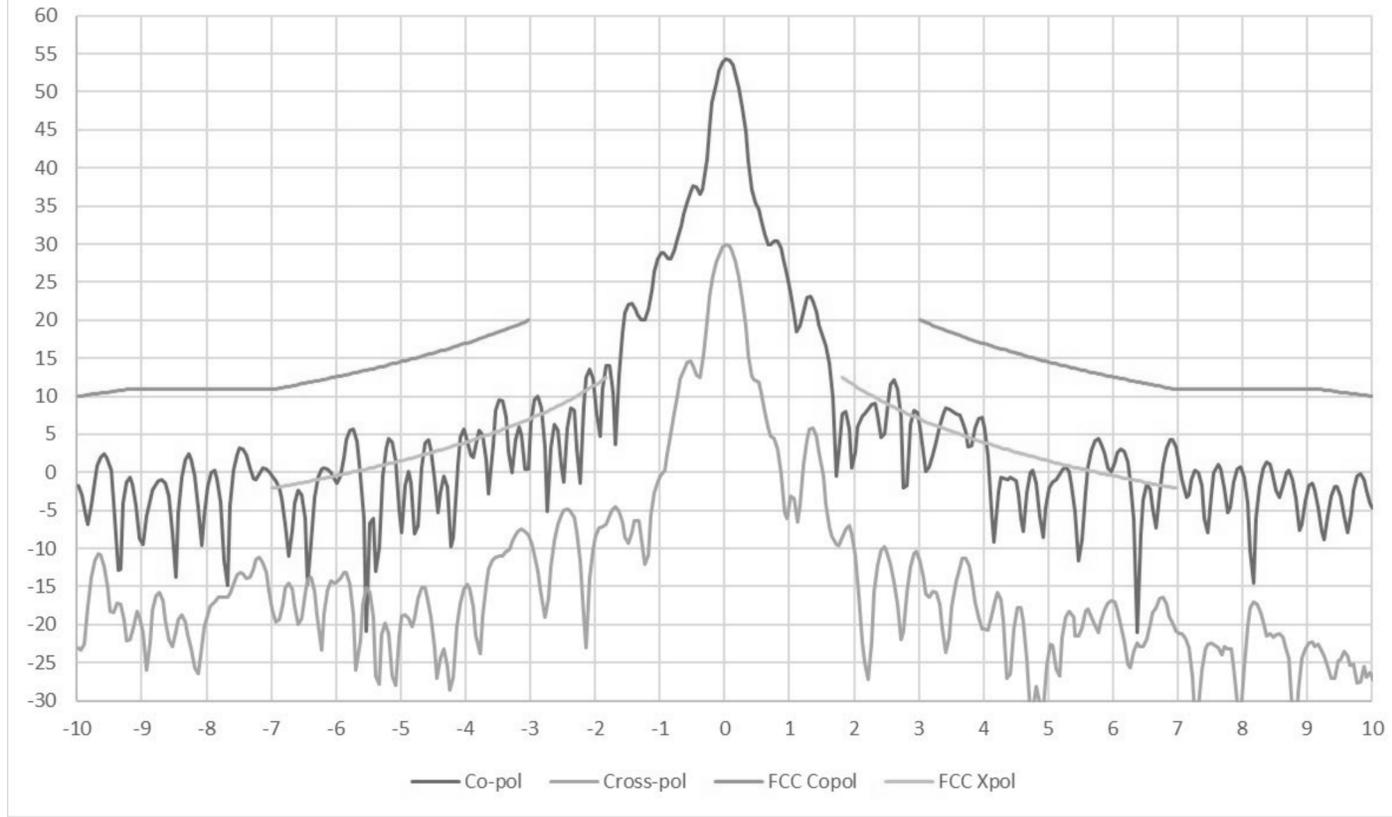
AvL 2.2m Ka Band Antenna  
27.635 GHz LHCP Elevation Pattern



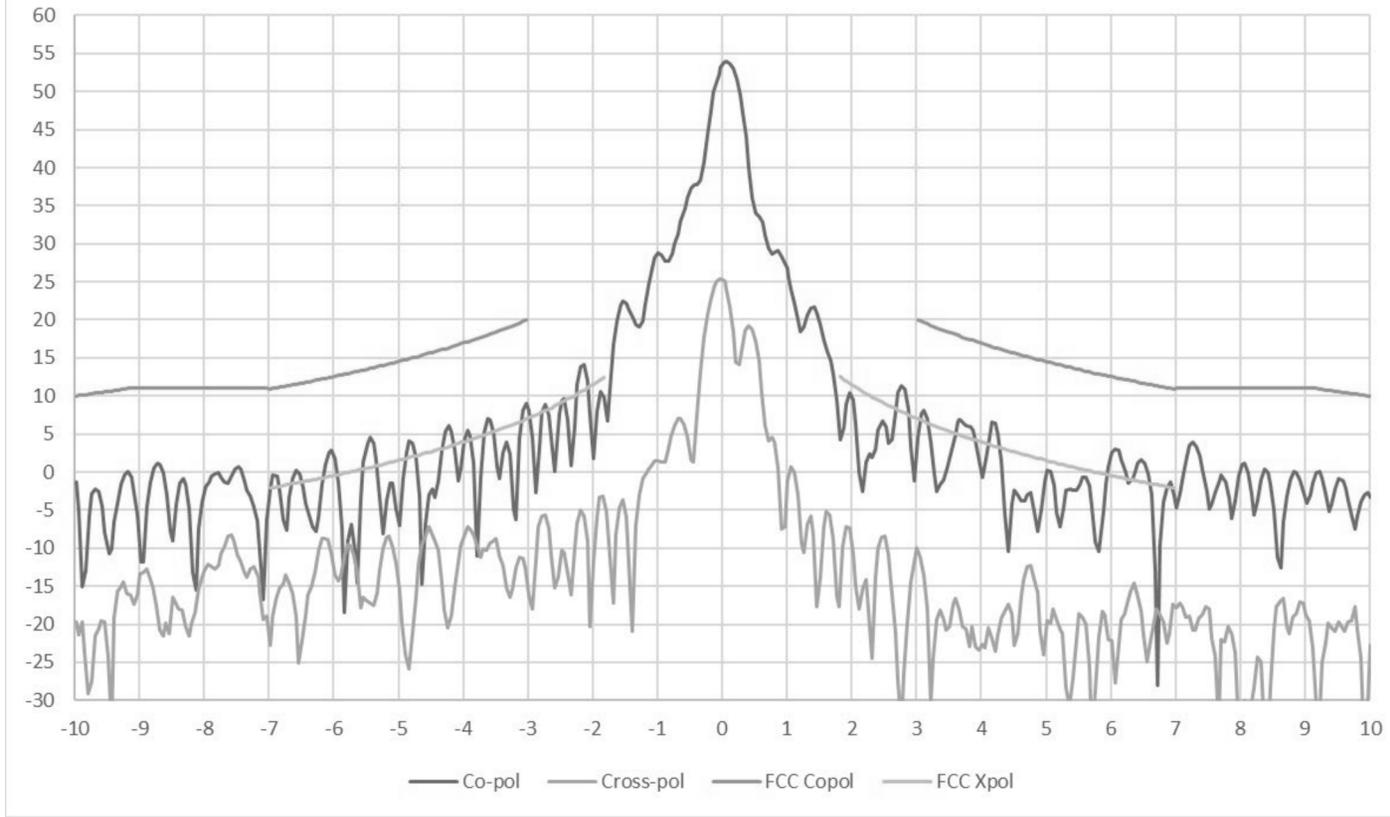
AvL 2.2m Ka Band Antenna  
28.363 GHz LHCP Elevation Pattern



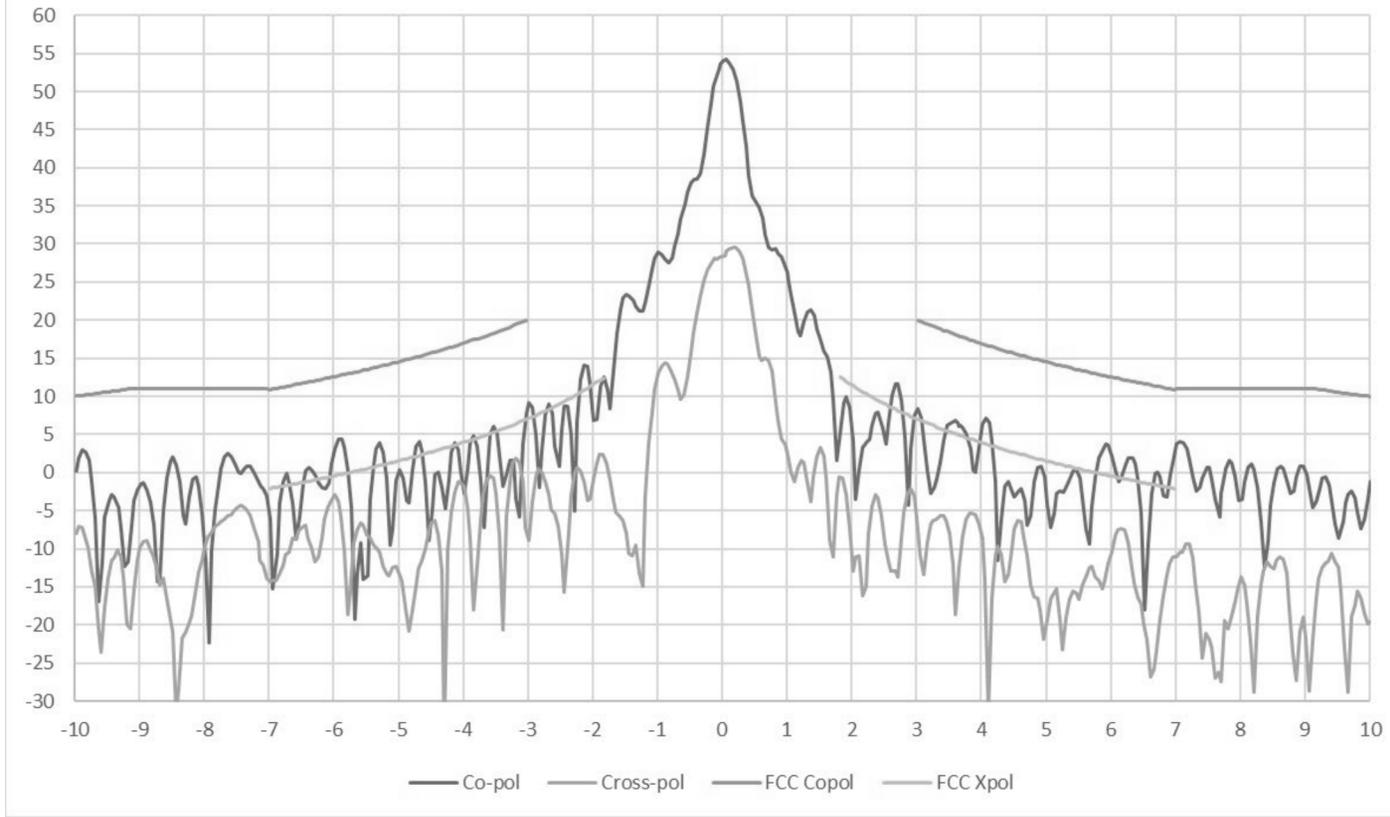
AvL 2.2m Ka Band Antenna  
29.09 GHz LHCP Elevation Pattern



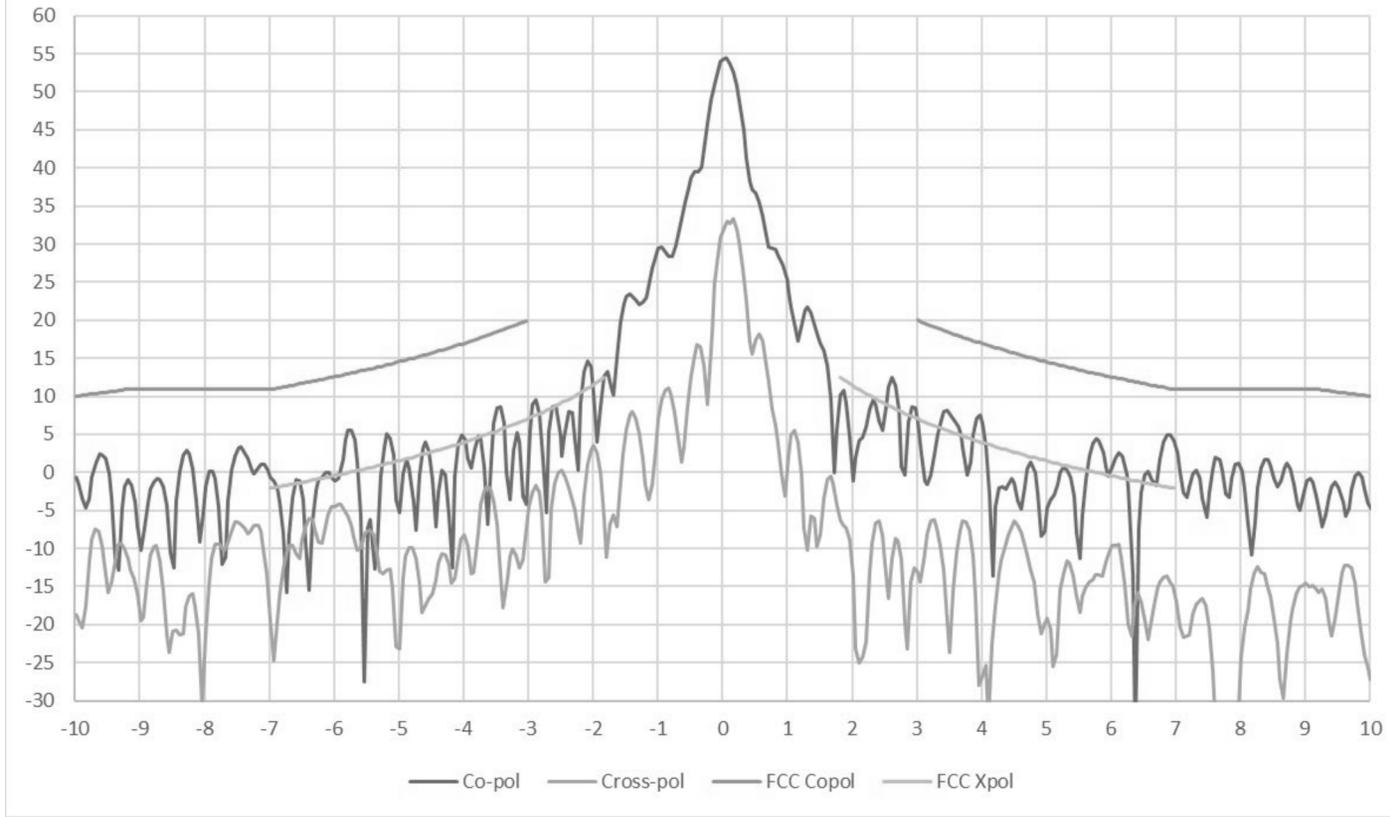
AvL 2.2m Ka Band Antenna  
27.635 GHz RHCP Elevation Pattern



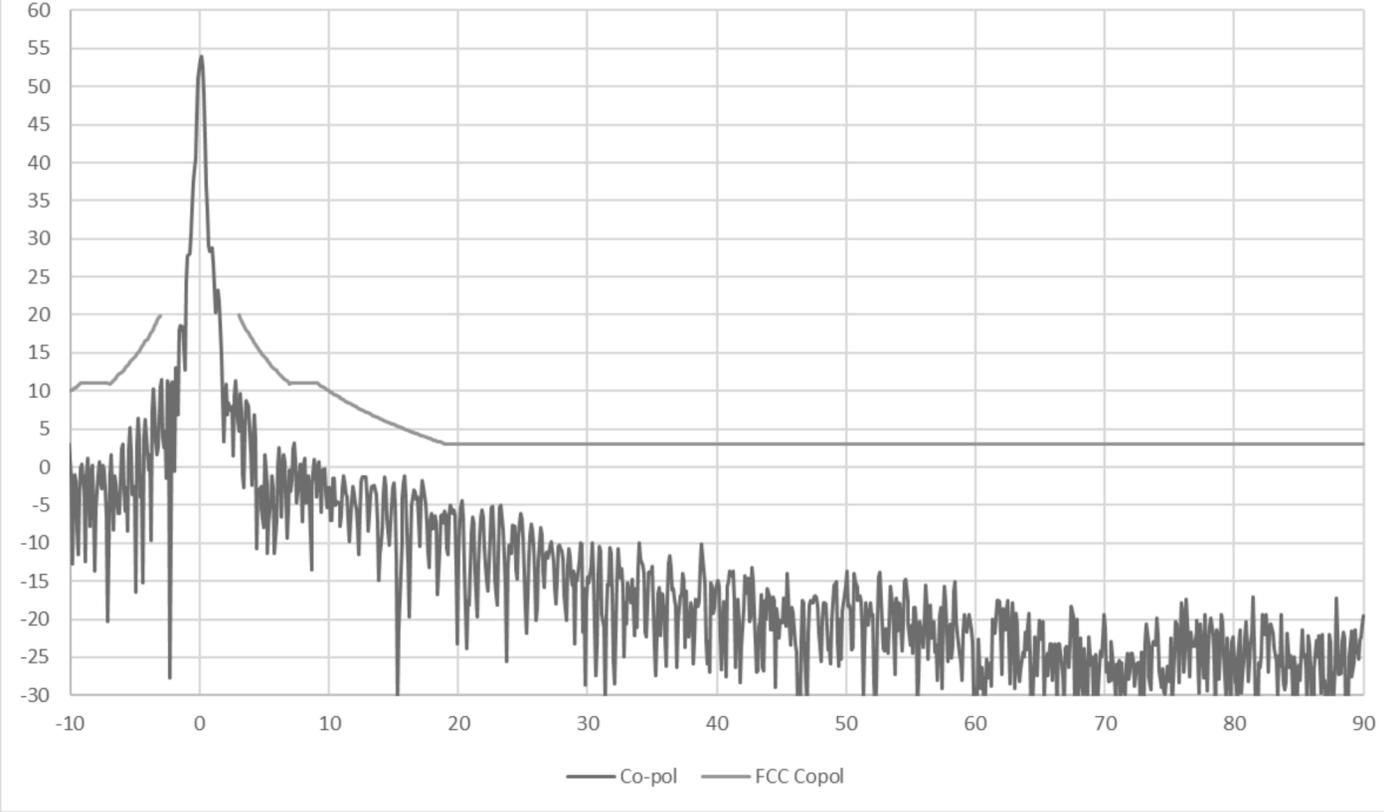
AvL 2.2m Ka Band Antenna  
28.363 GHz RHCP Elevation Pattern



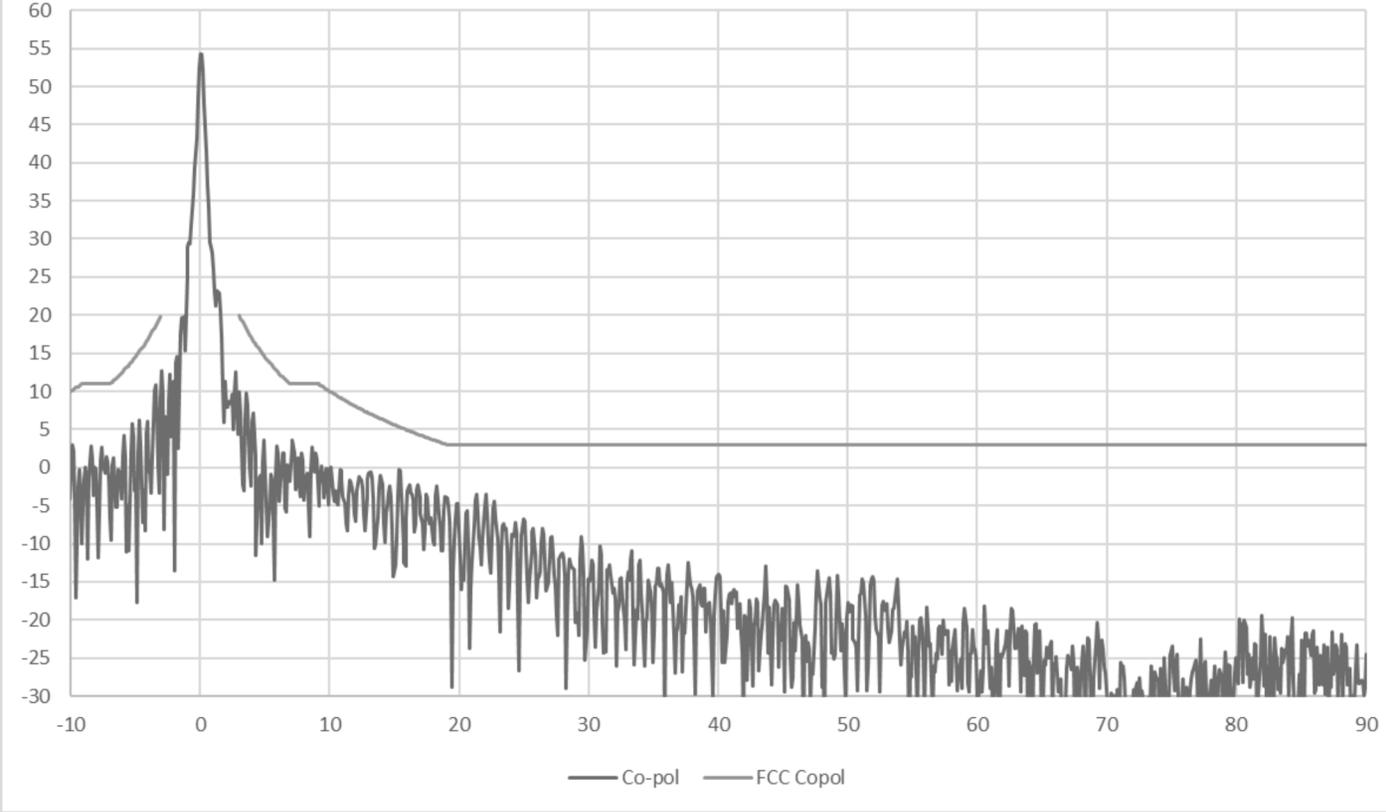
AvL 2.2m Ka Band Antenna  
29.09 GHz RHCP Elevation Pattern



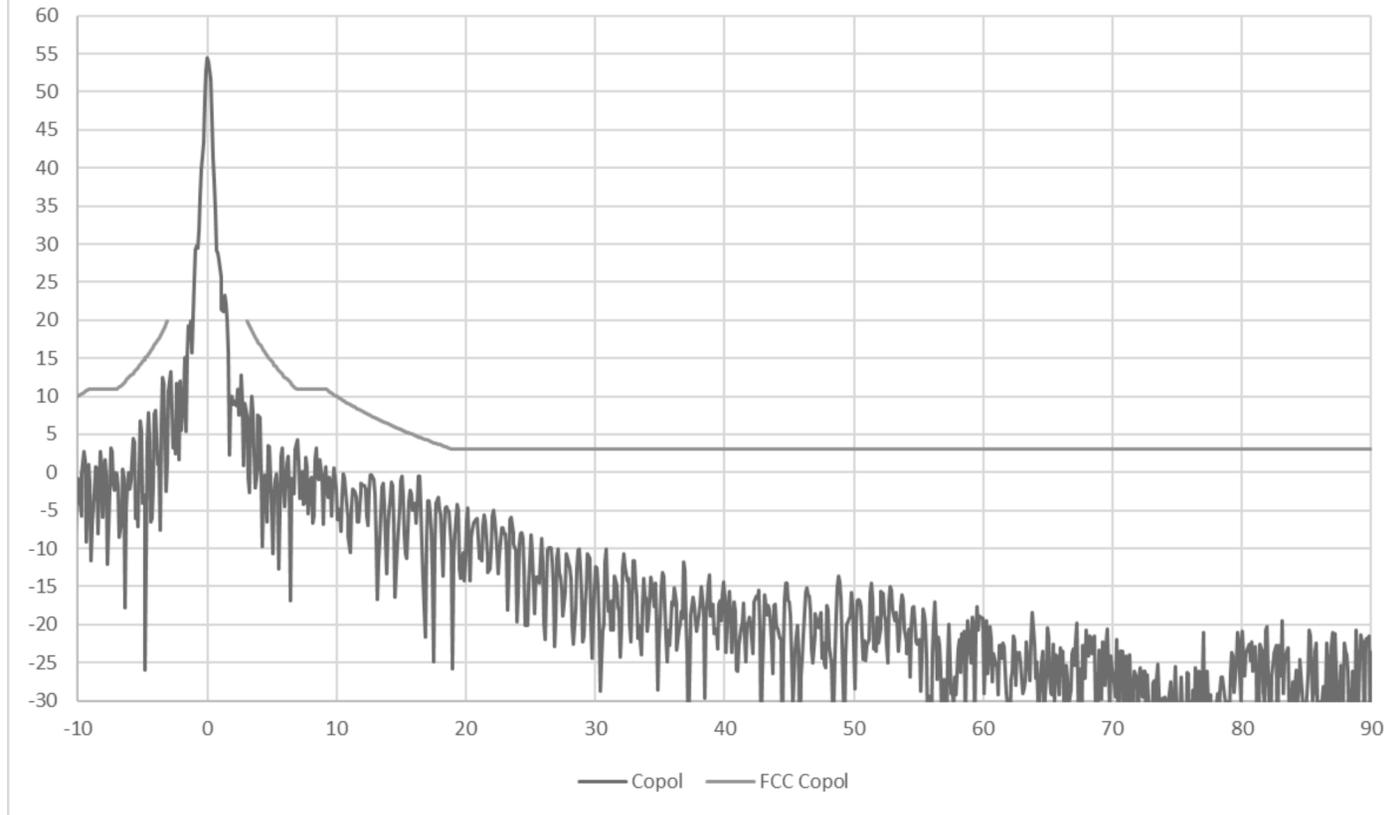
AvL 2.2m Ka Band Antenna  
27.635 GHz LHCP Elevation Pattern



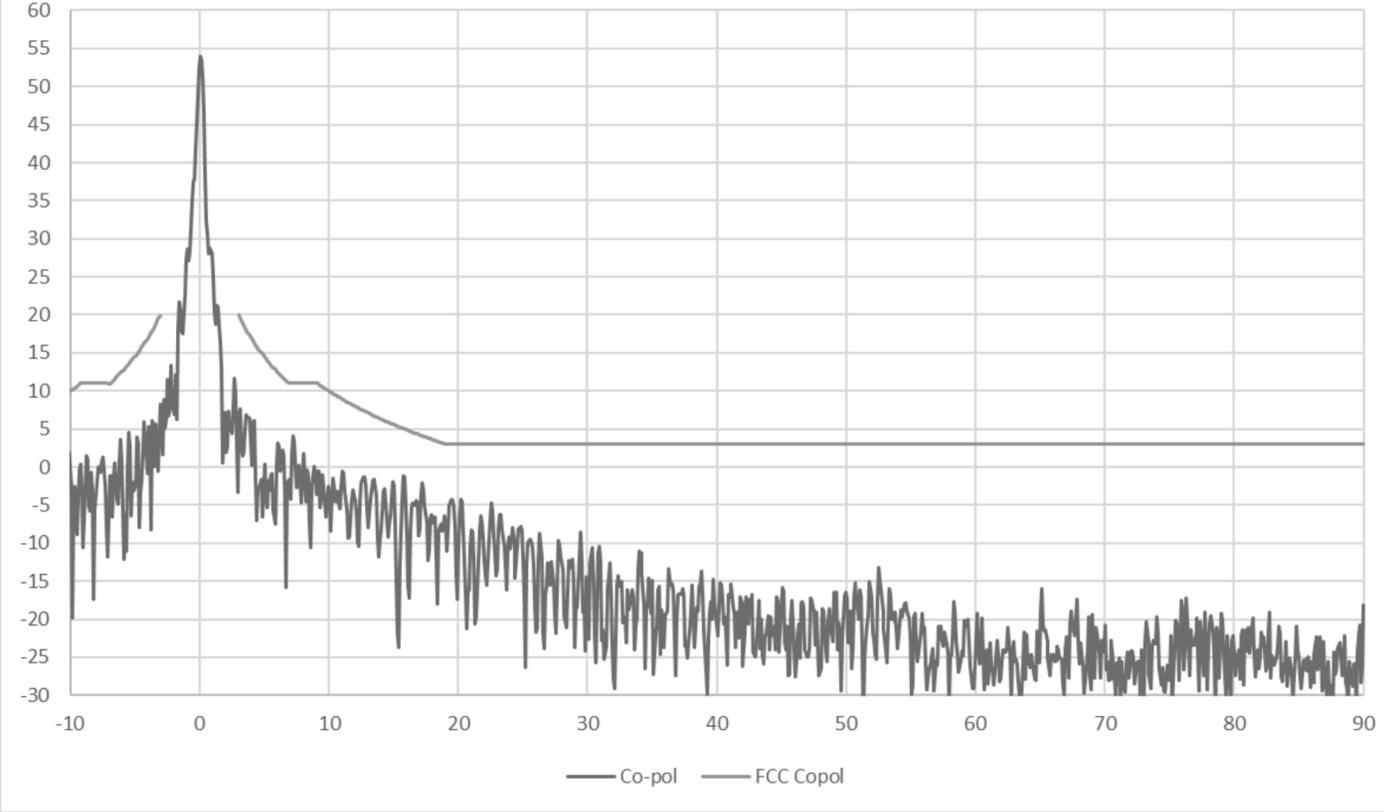
AvL 2.2m Ka Band Antenna  
28.363 GHz LHCP Elevation Pattern



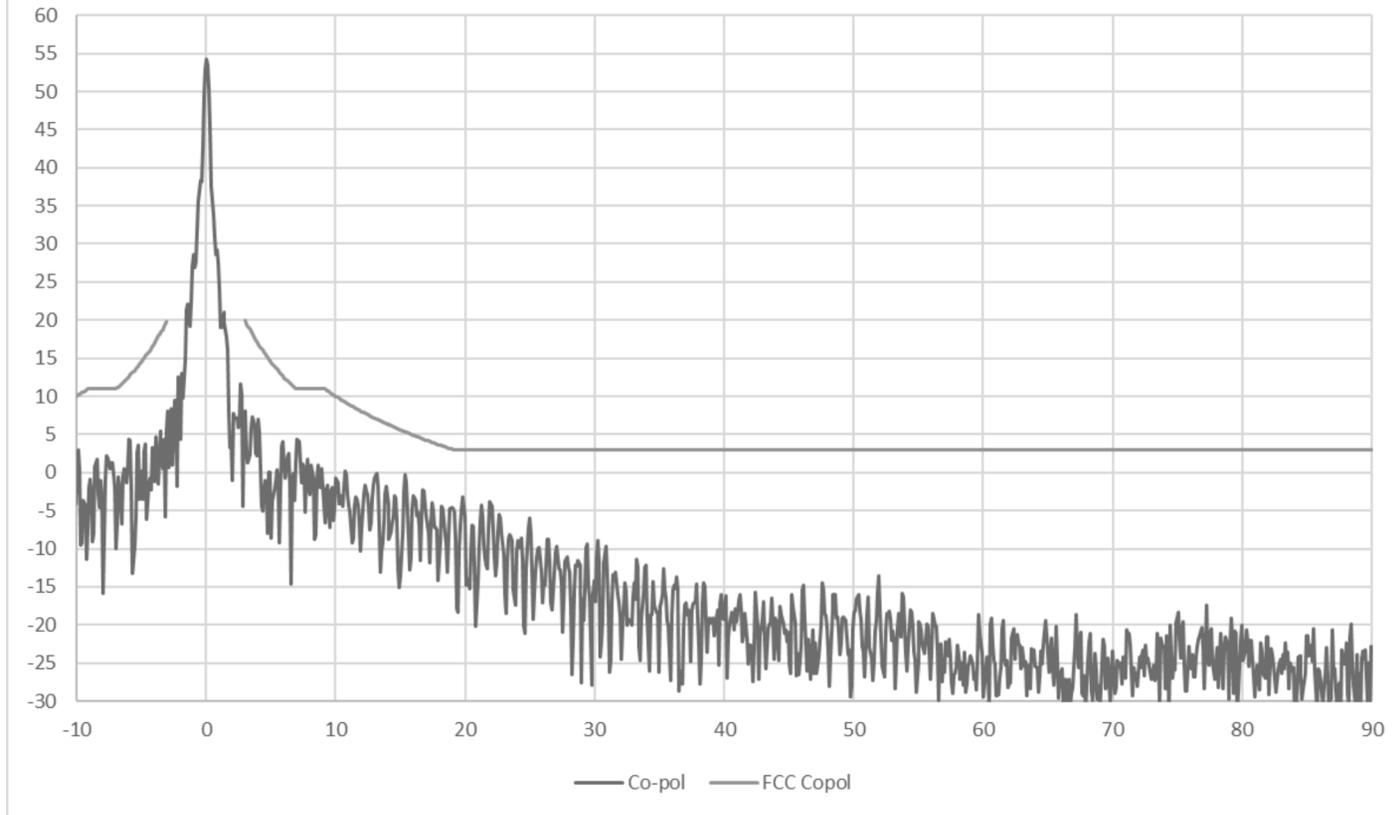
AvL 2.2m Ka Band Antenna  
29.09 GHz LHCP Elevation Pattern



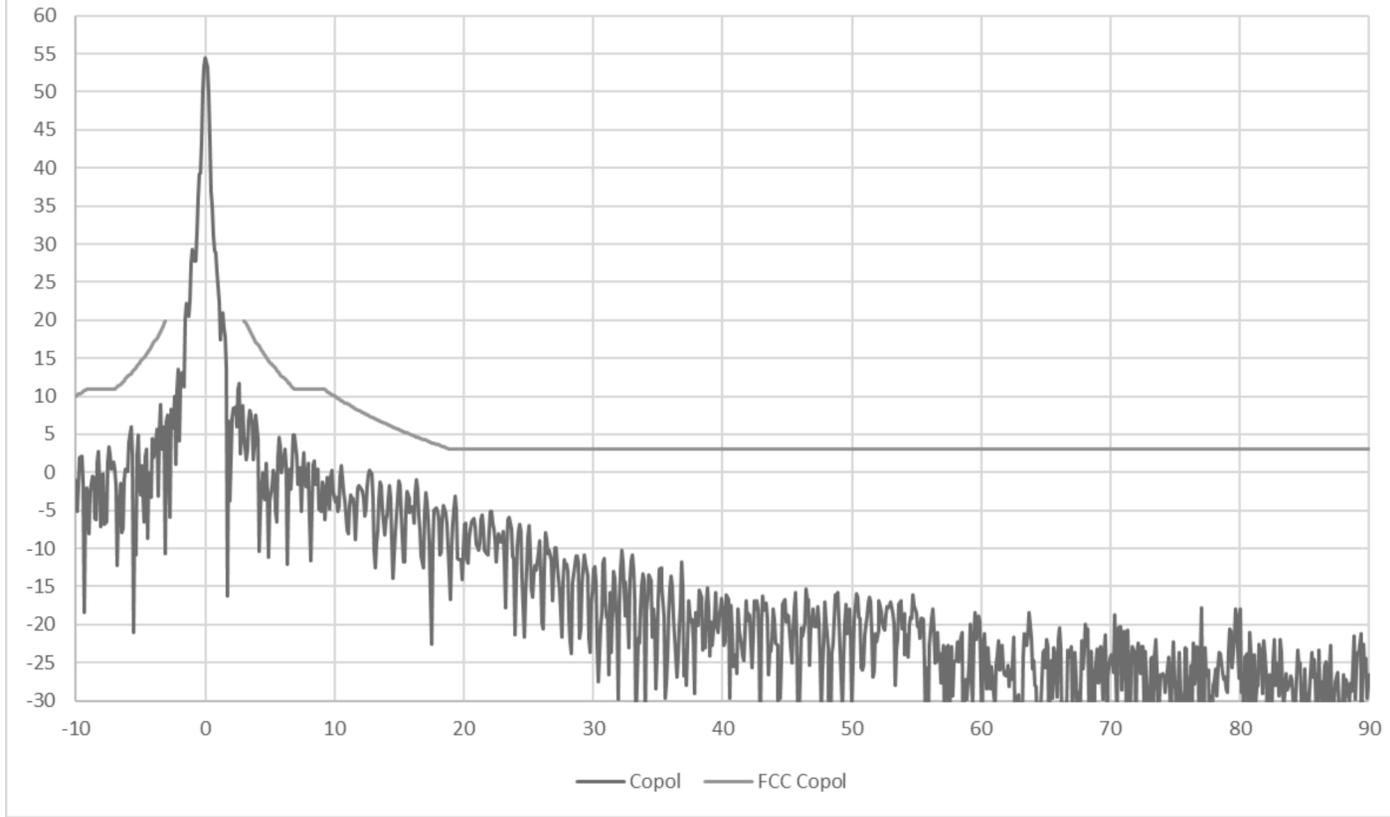
AvL 2.2m Ka Band Antenna  
27.635 GHz RHCP Elevation Pattern



AvL 2.2m Ka Band Antenna  
28.363 GHz RHCP Elevation Pattern



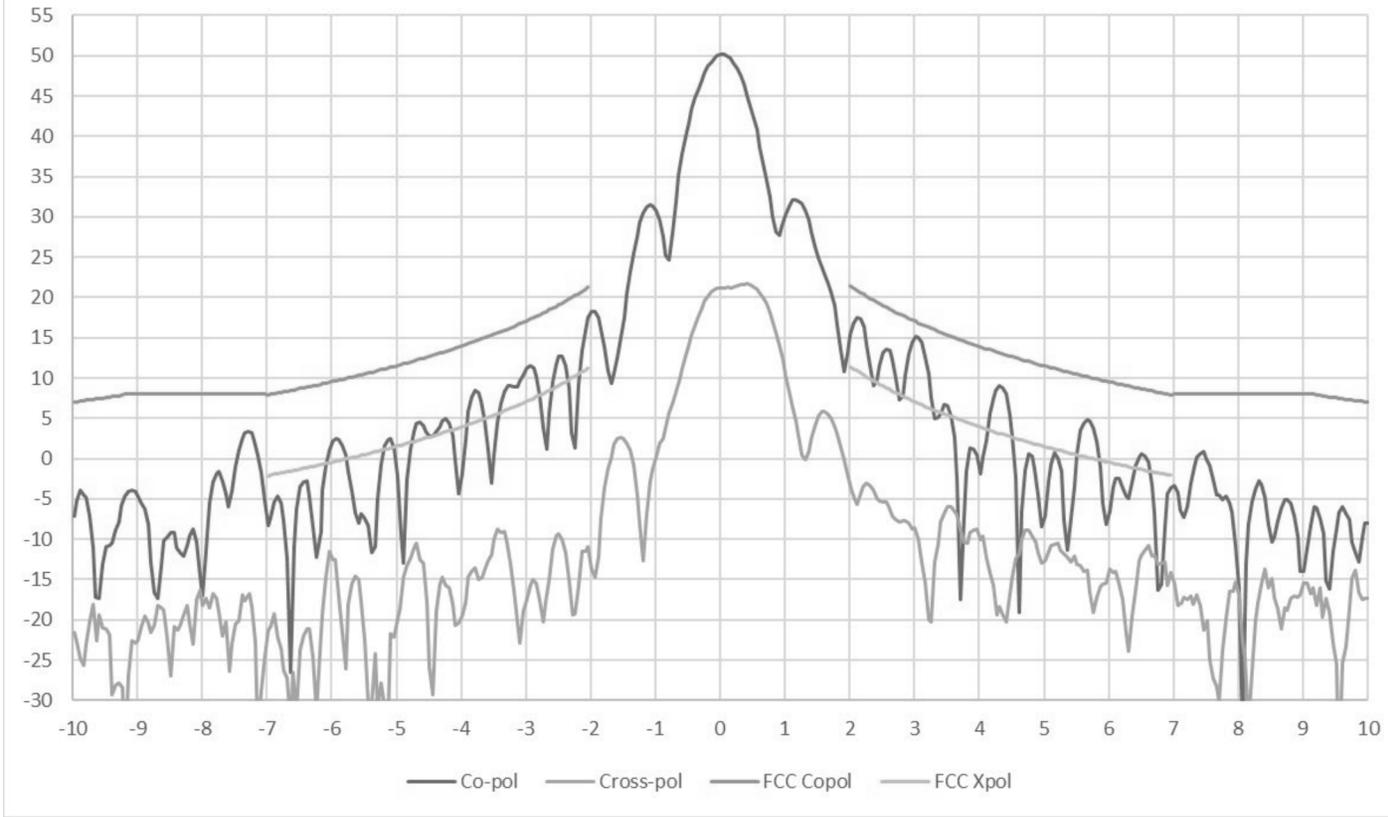
AvL 2.2m Ka Band Antenna  
29.09 GHz RHCP Elevation Pattern



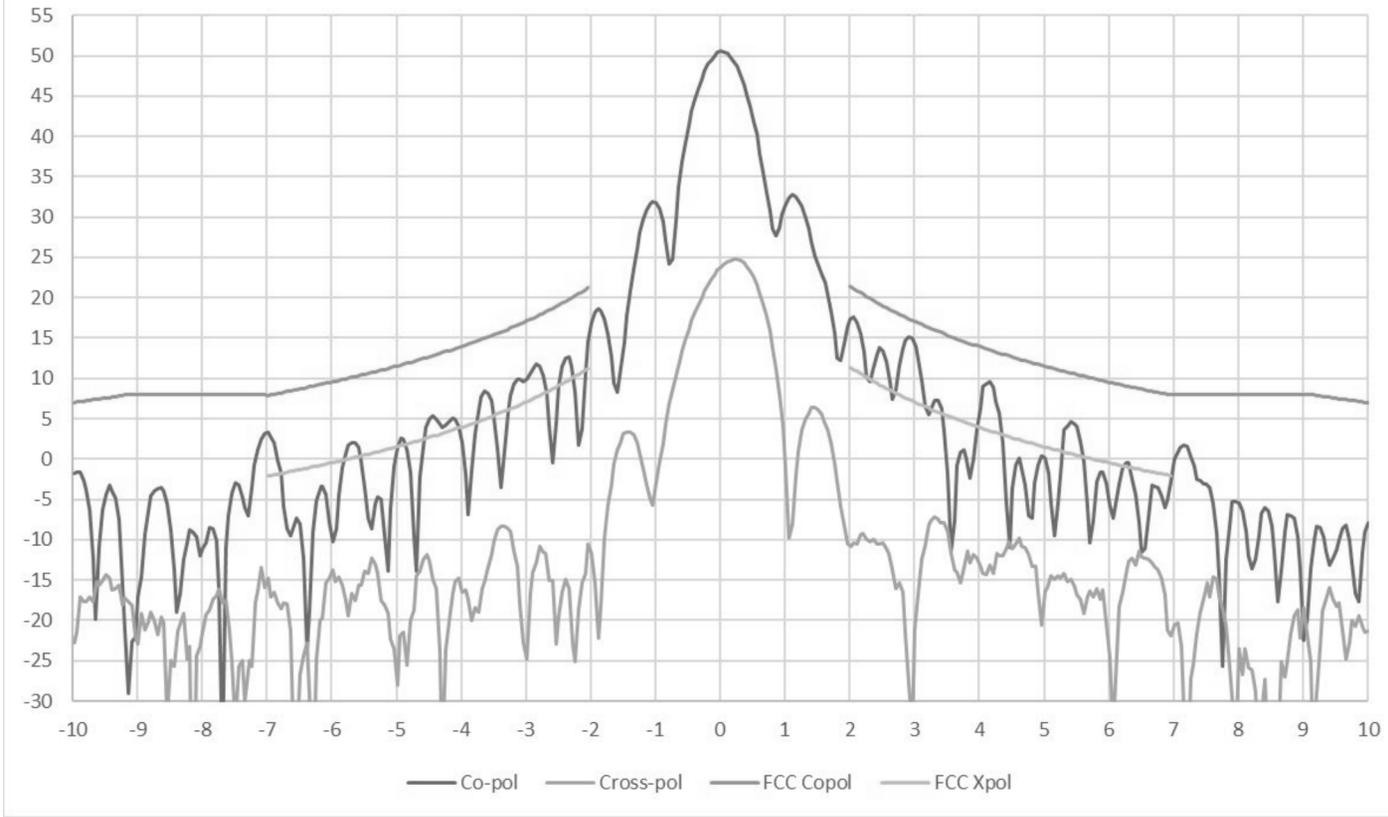
2.2m Ka Band Antenna

Receive Band Azimuth Patterns

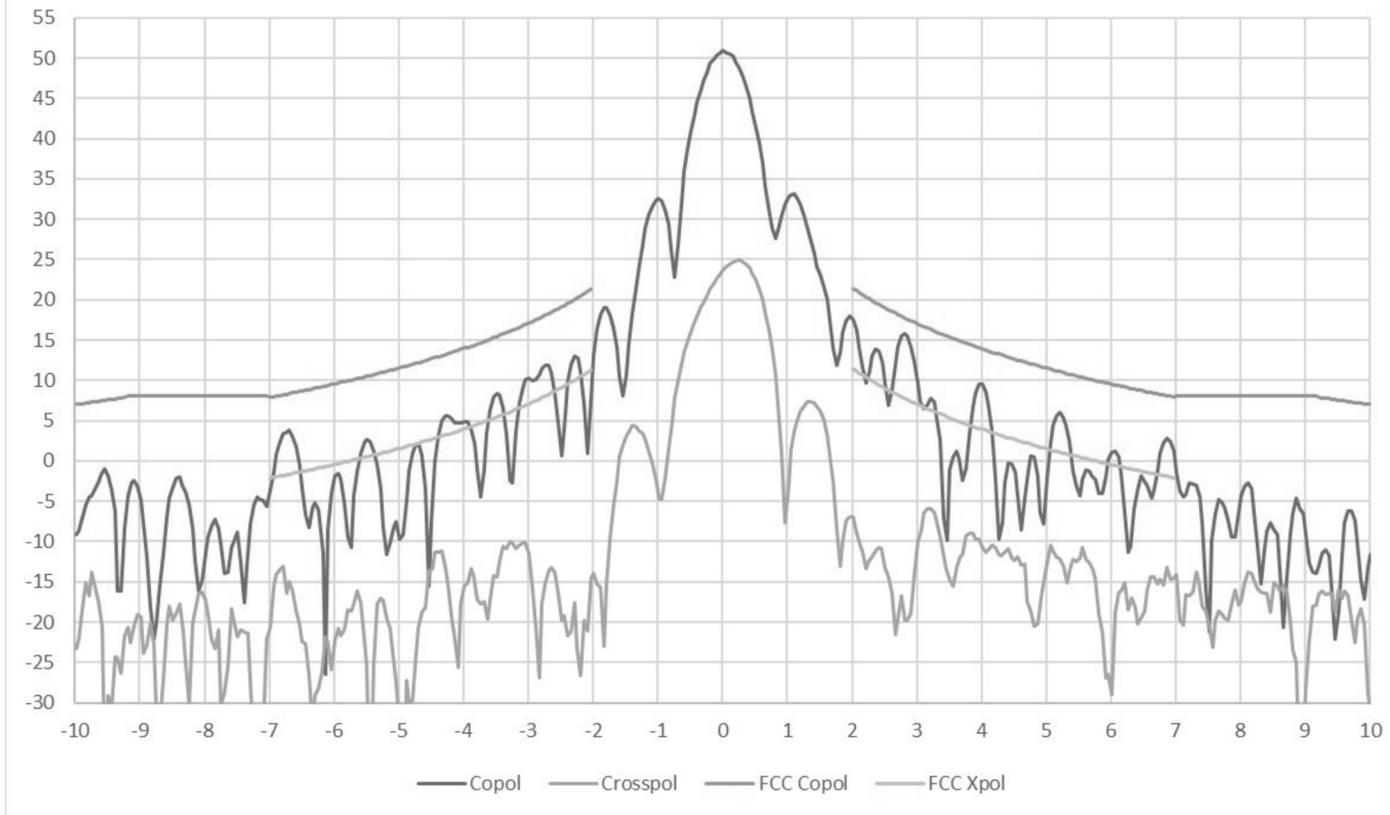
AvL 2.2m Ka Band Antenna  
17.835 GHz LHCP Azimuth Pattern



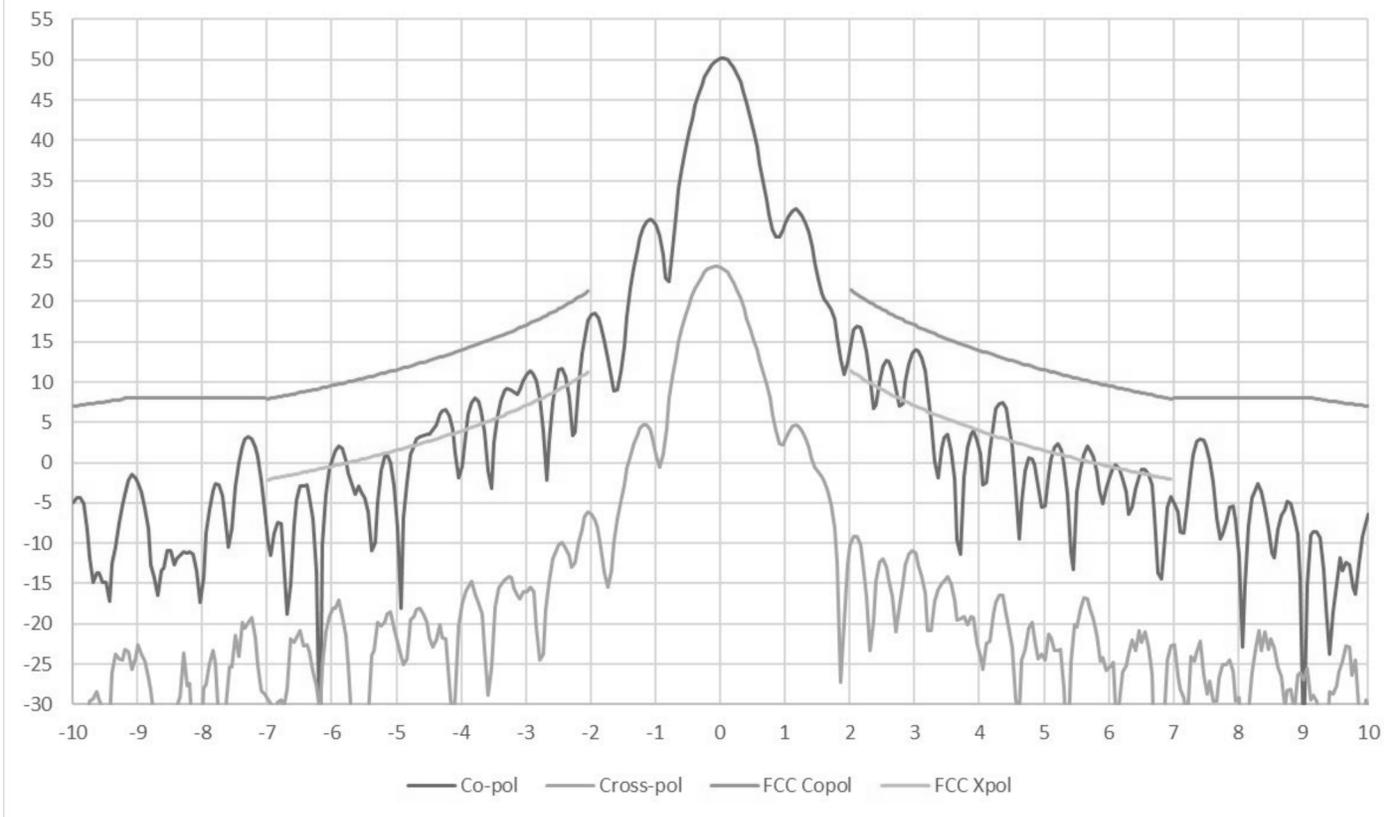
AvL 2.2m Ka Band Antenna  
18.568 GHz LHCP Azimuth Pattern



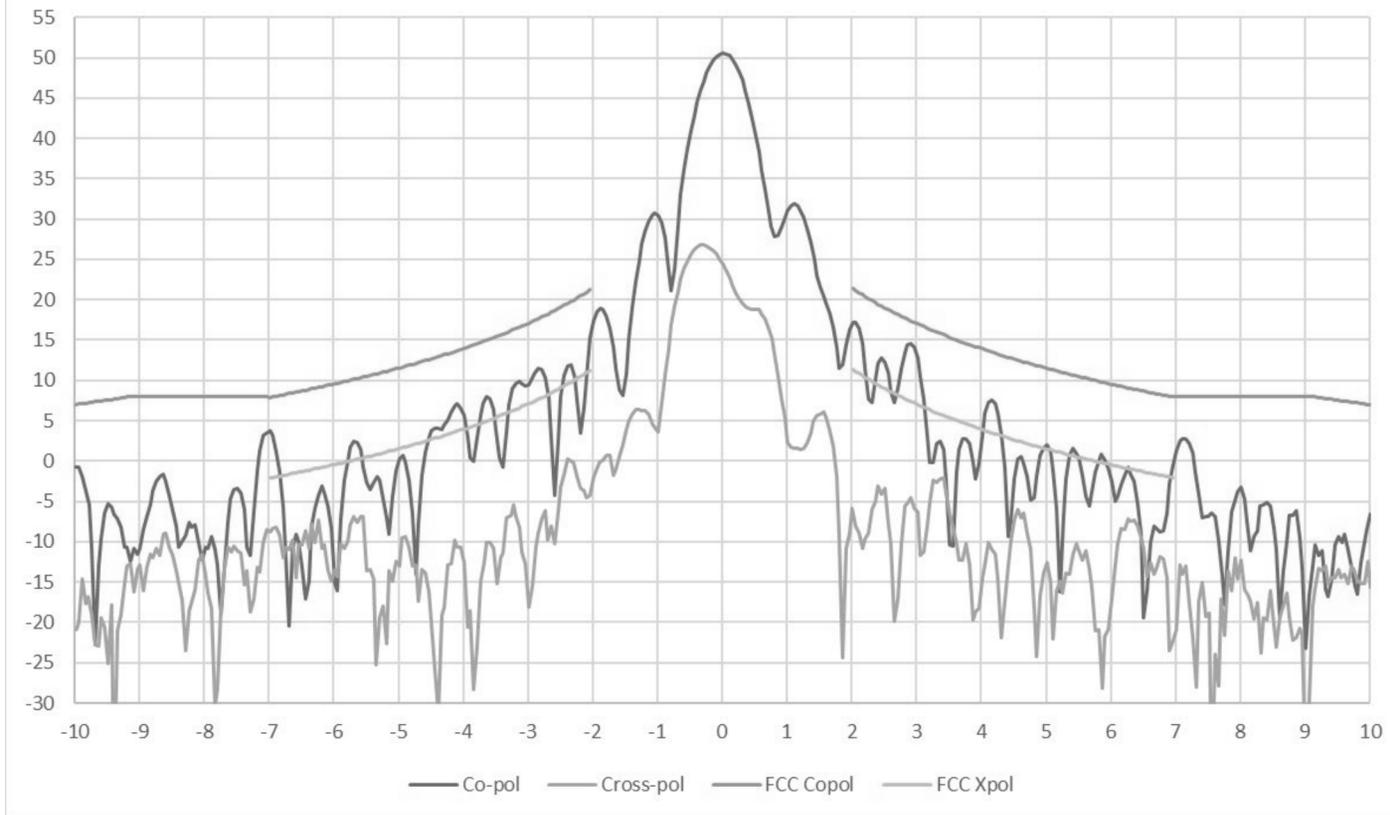
AvL 2.2m Ka Band Antenna  
19.3 GHz LHCP Azimuth Pattern



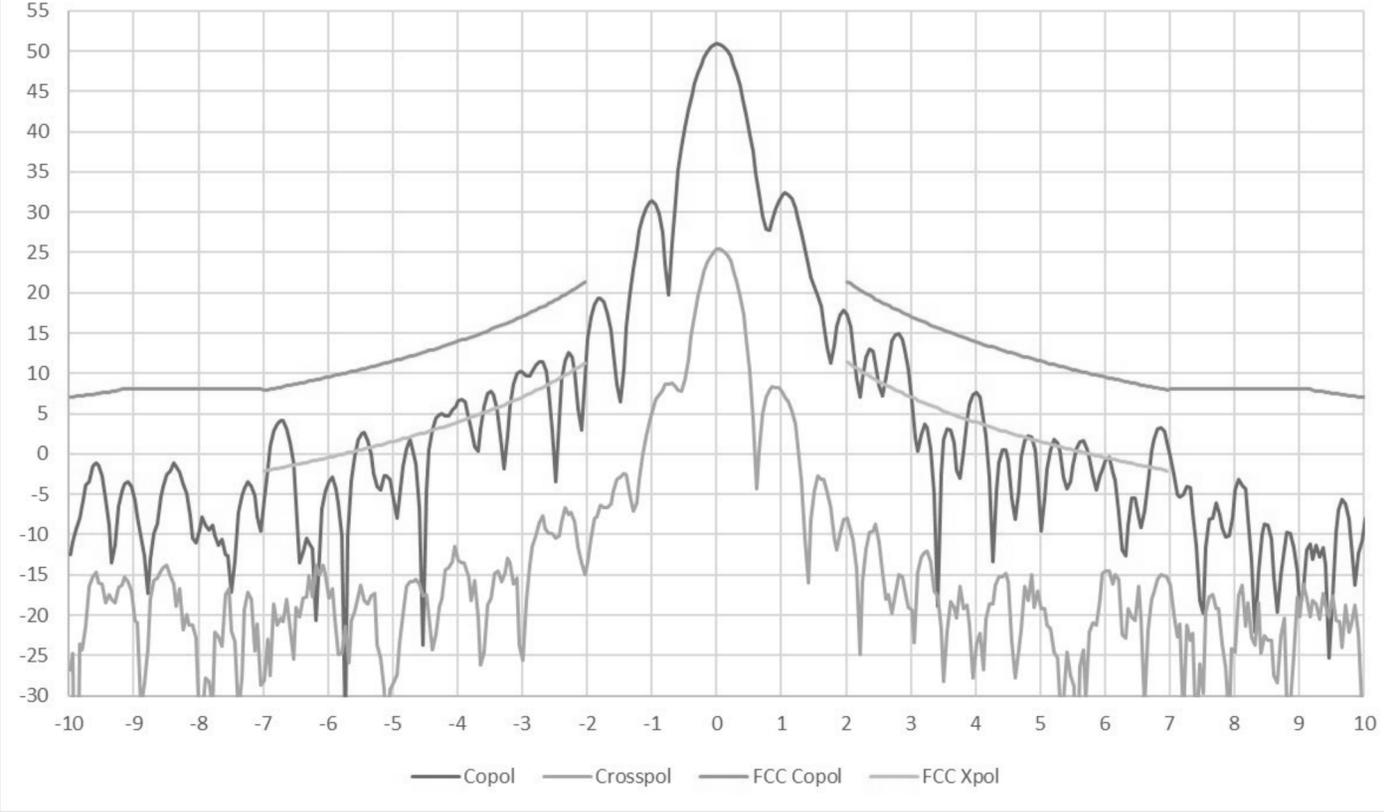
AvL 2.2m Ka Band Antenna  
17.835 GHz RHCP Azimuth Pattern



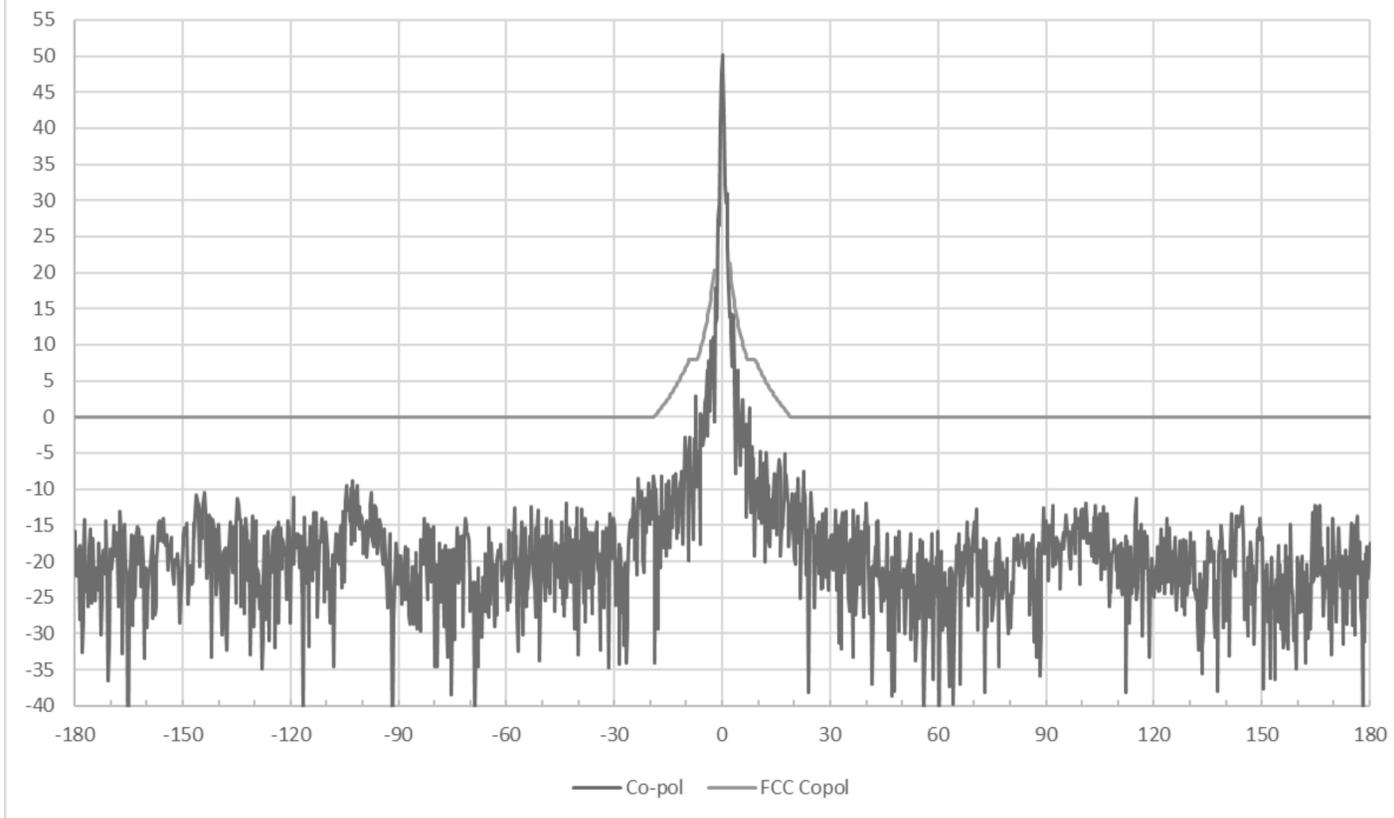
AvL 2.2m Ka Band Antenna  
18.568 GHz RHCP Azimuth Pattern



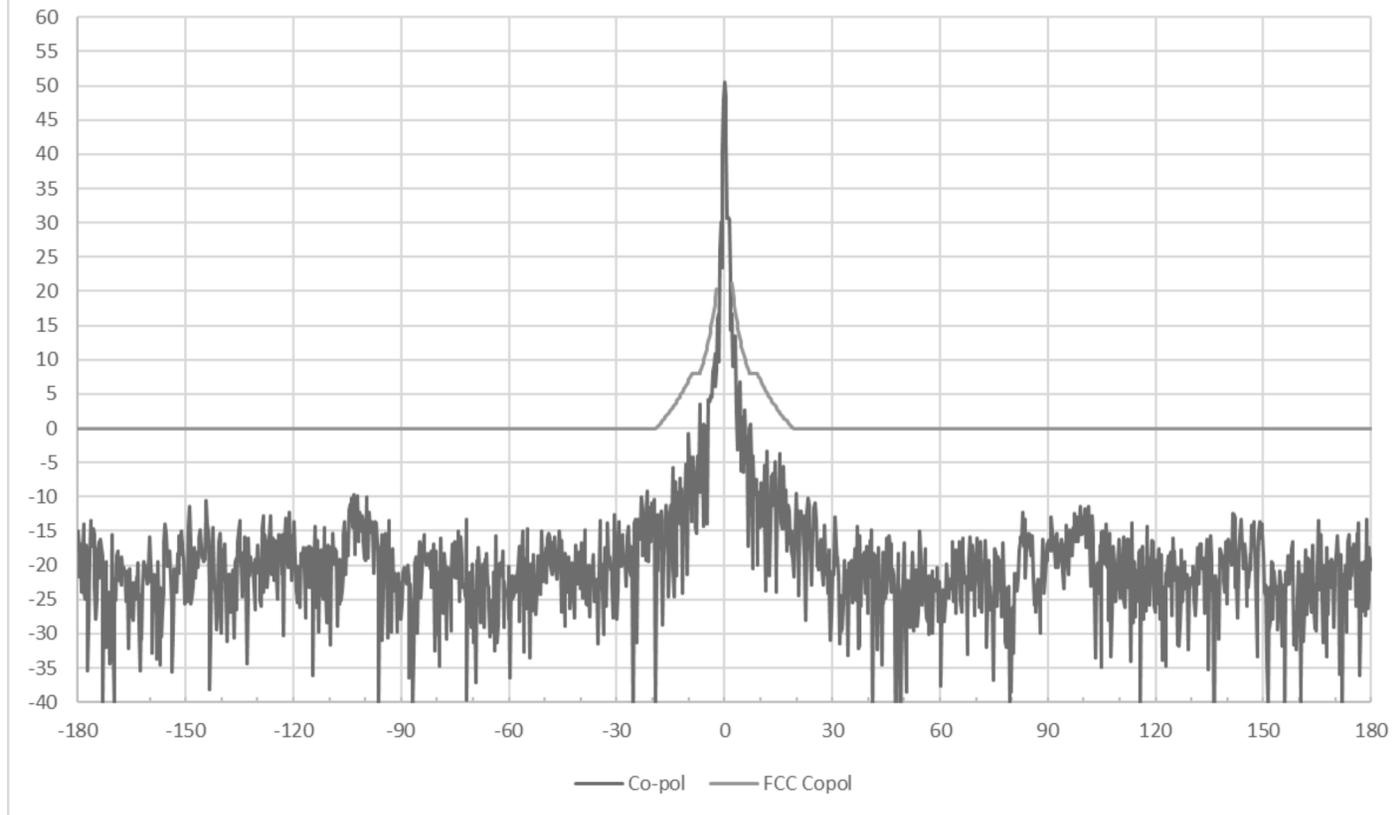
AvL 2.2m Ka Band Antenna  
19.3 GHz RHCP Azimuth Pattern



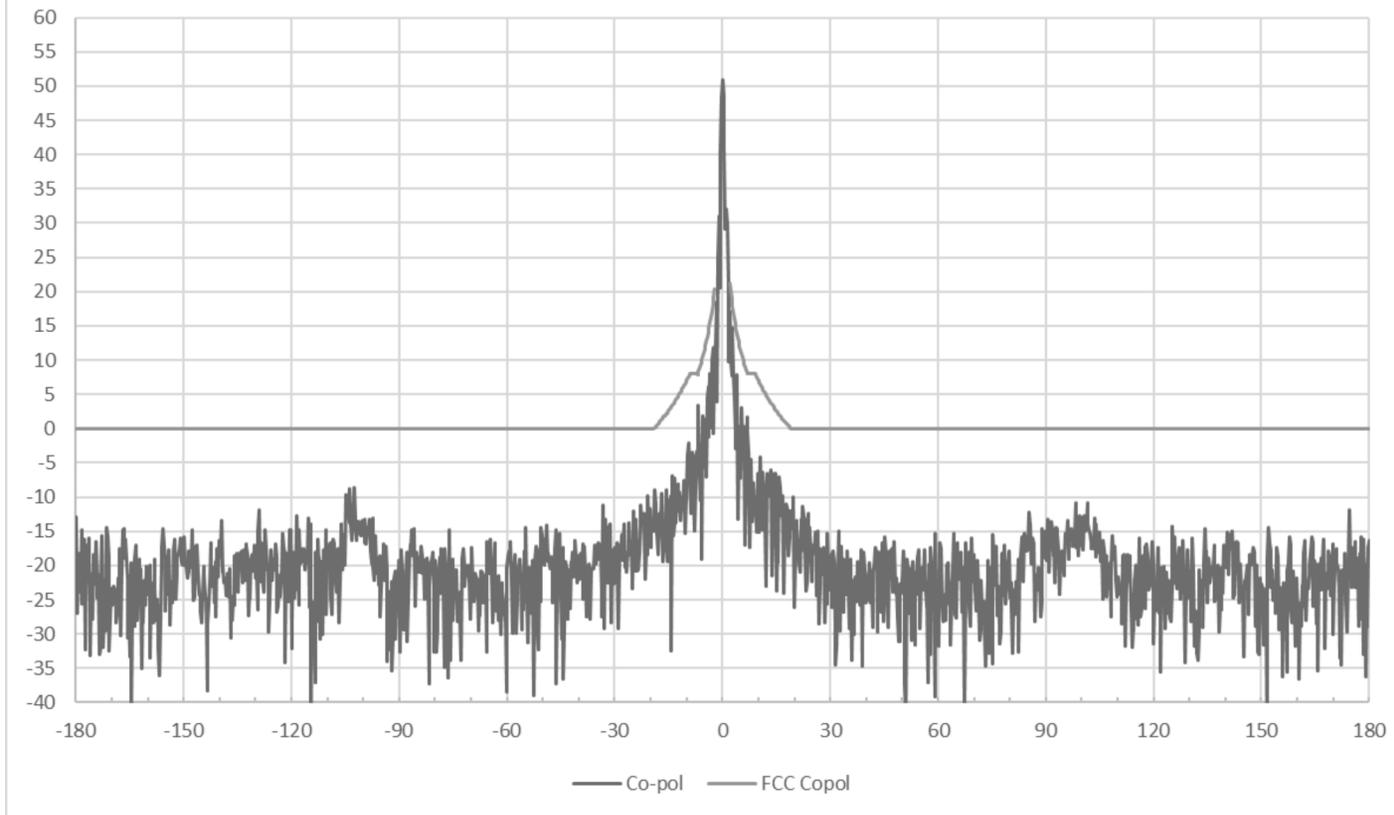
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17.835 GHz LHCP Azimuth Pattern



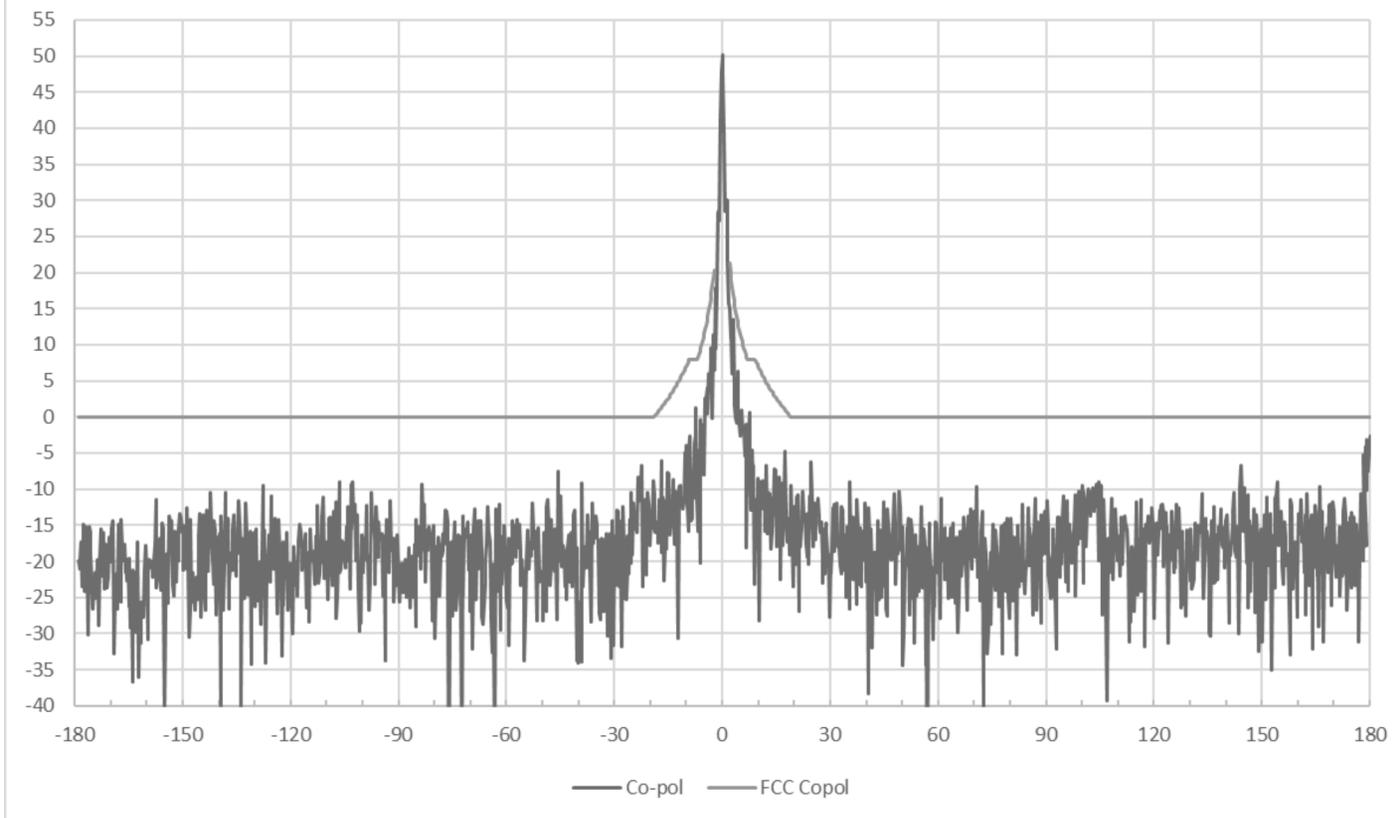
AvL 2.2m Ka Band Antenna  
18.568 GHz LHCP Azimuth Pattern



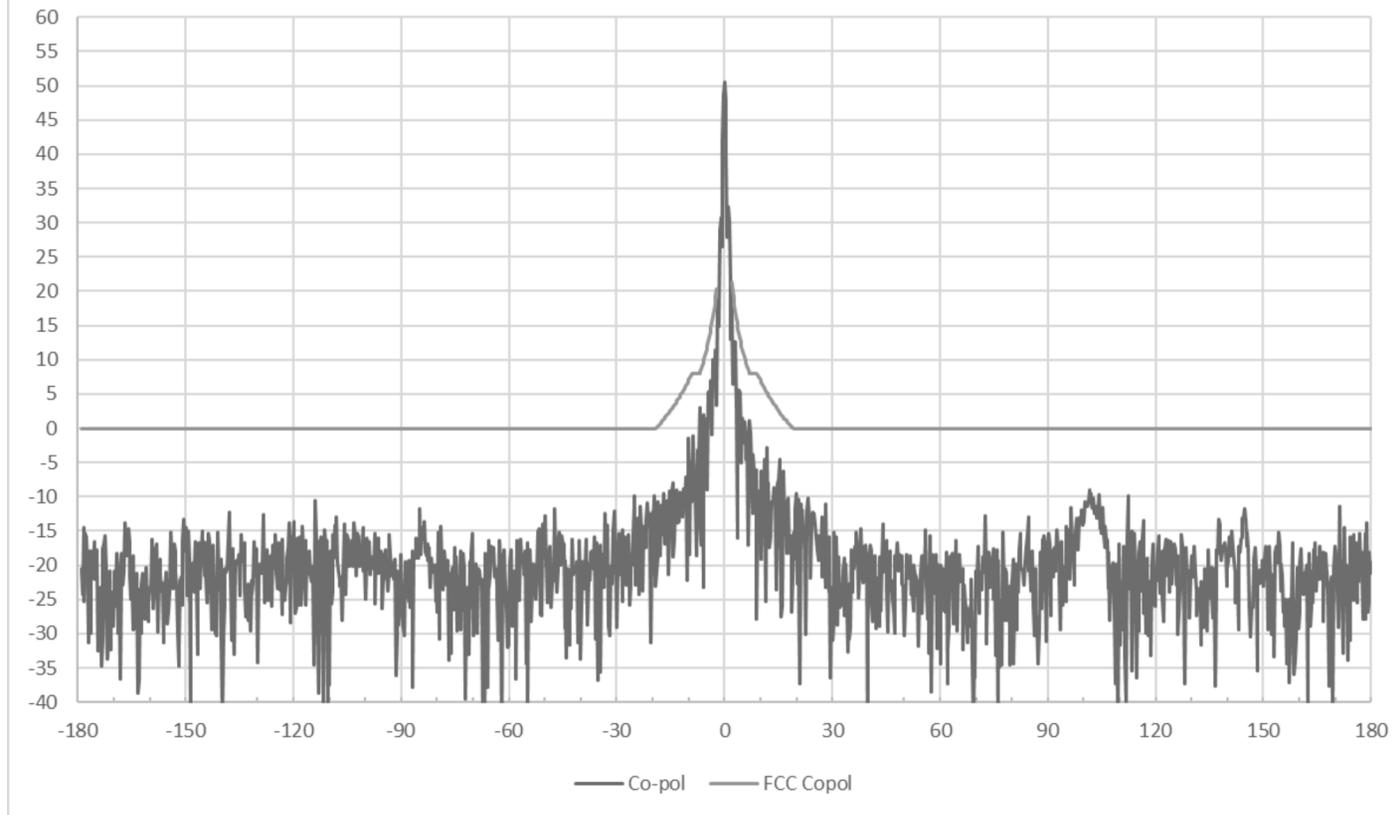
AvL 2.2m Ka Band Antenna  
19.3 GHz LHCP Azimuth Pattern



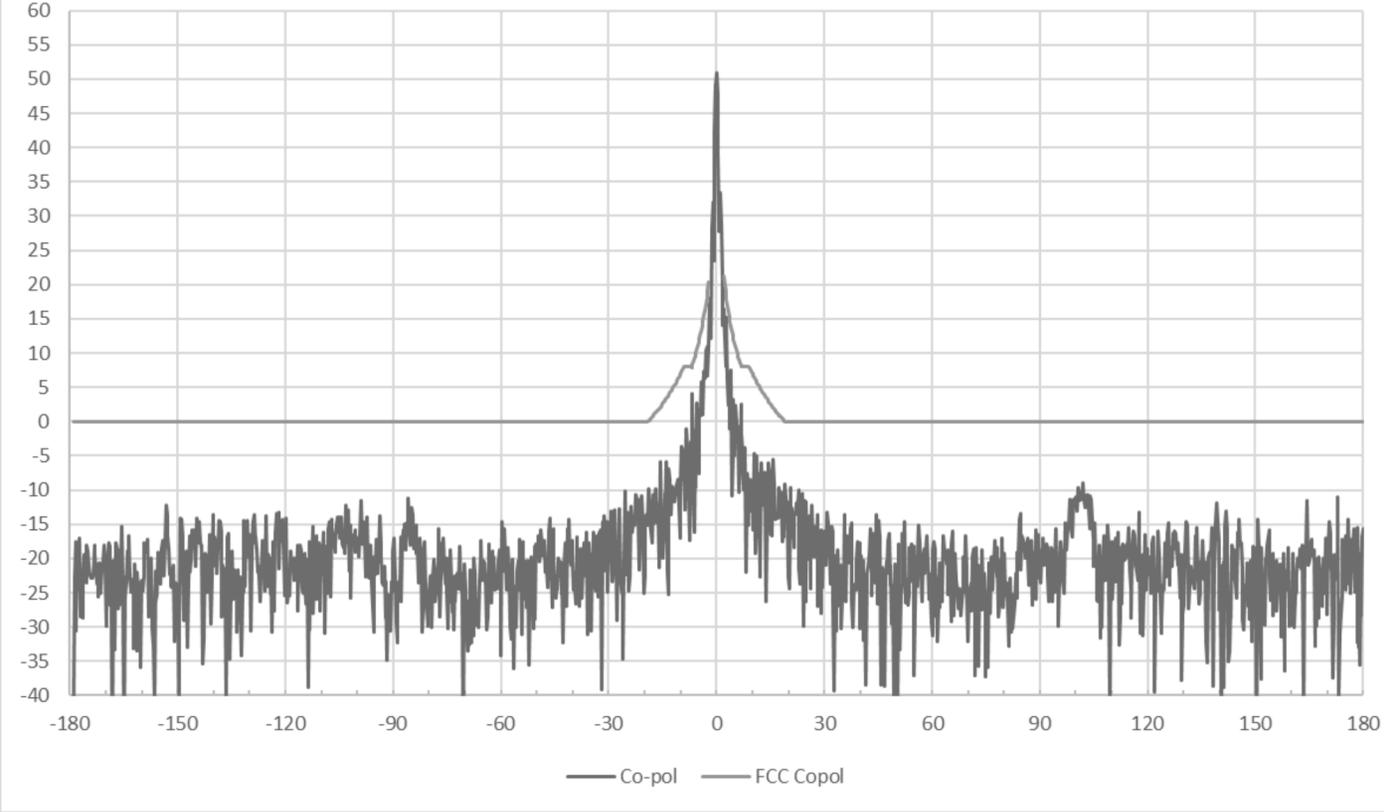
AvL 2.2m Ka Band Antenna  
17.835 GHz RHCP Azimuth Pattern



AvL 2.2m Ka Band Antenna  
18.568 GHz RHCP Azimuth Pattern



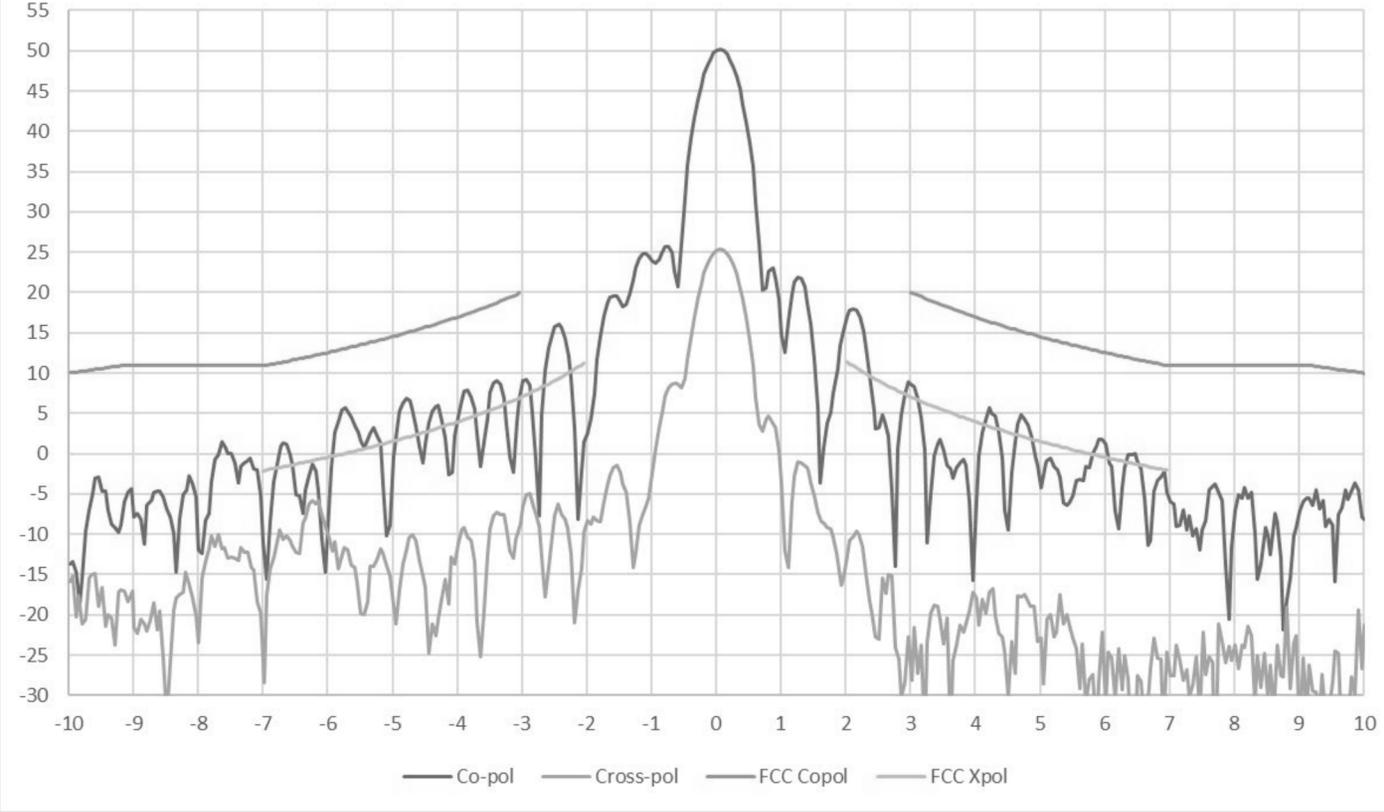
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19.3 GHz RHCP Azimuth Pattern



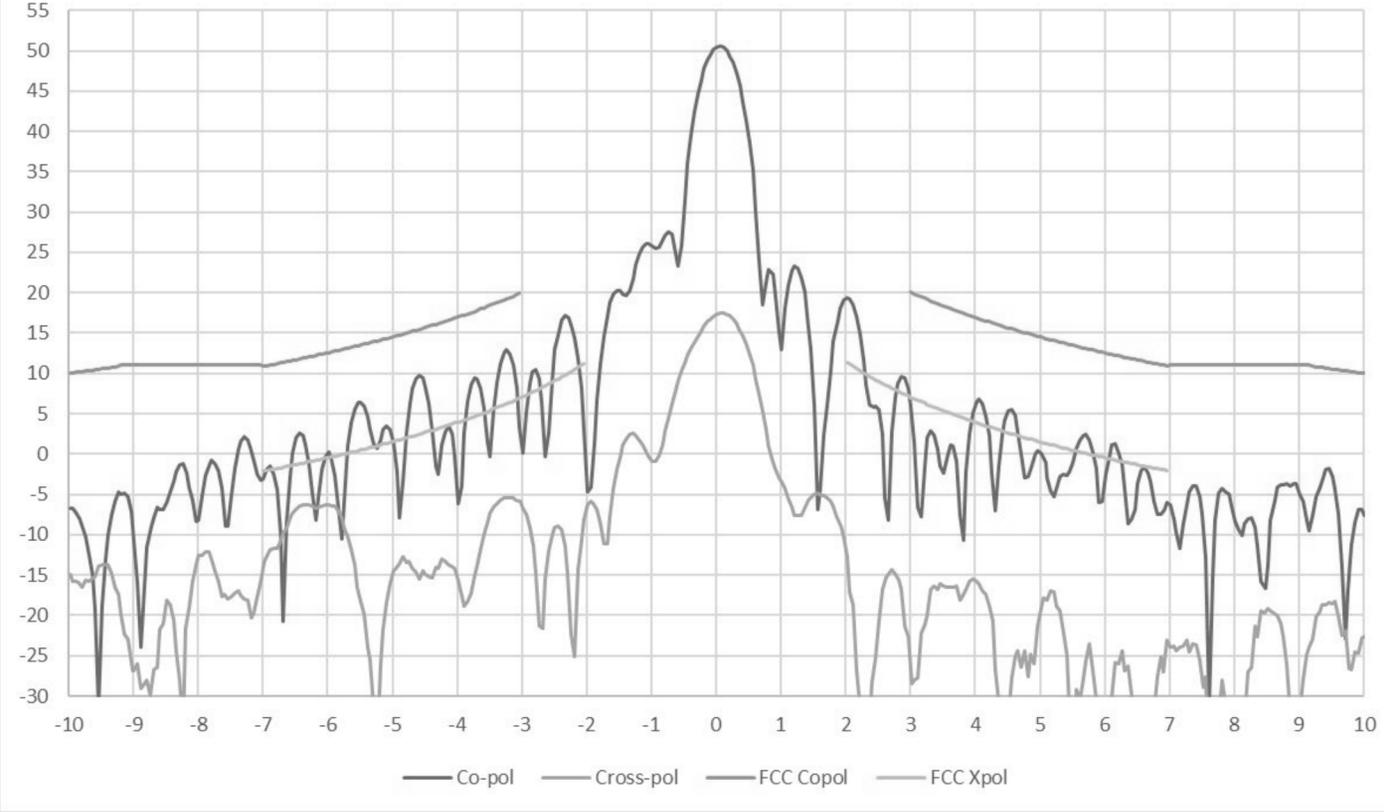
2.2m Ka Band Antenna

Receive Band Elevation Patterns

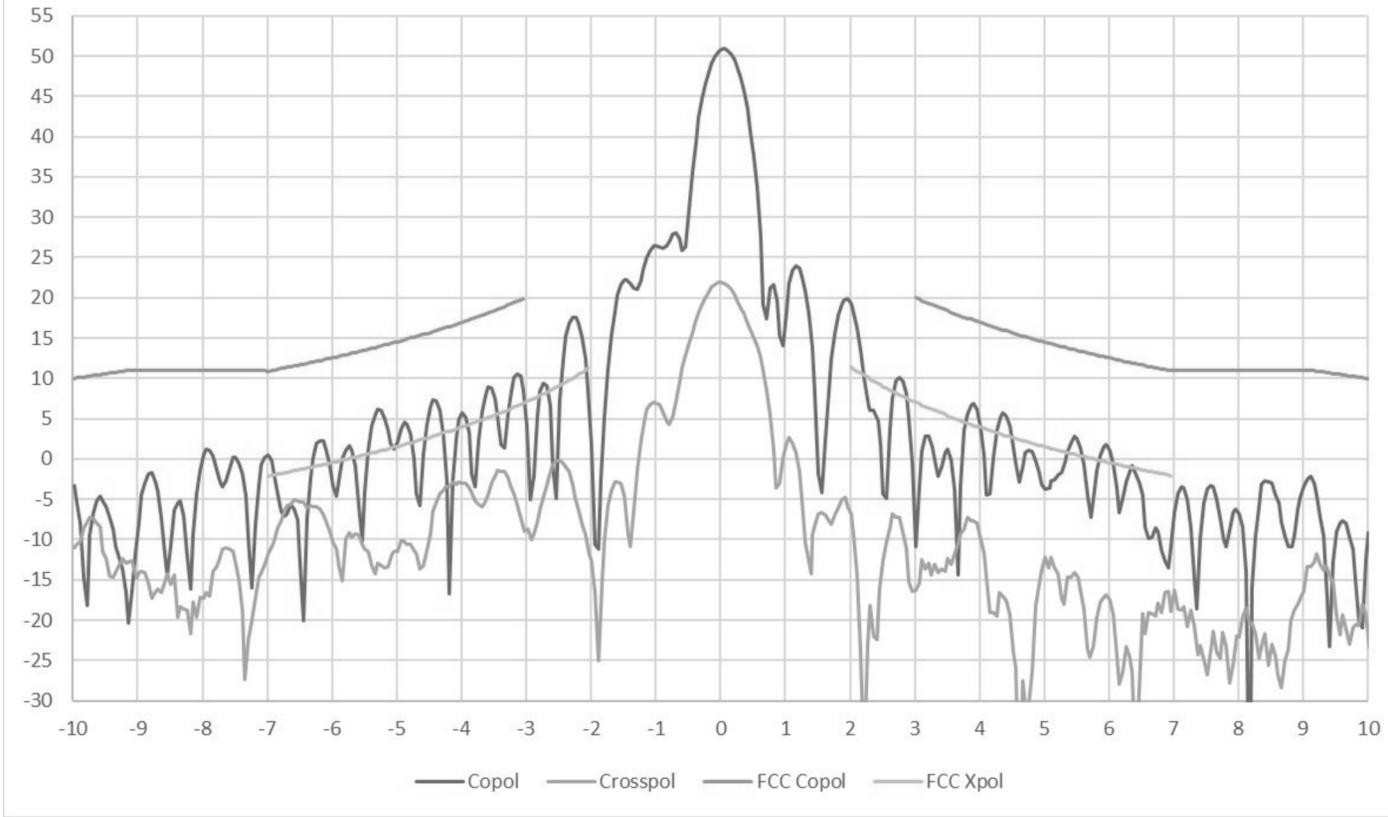
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17.835 GHz LHCP Elevation Pattern



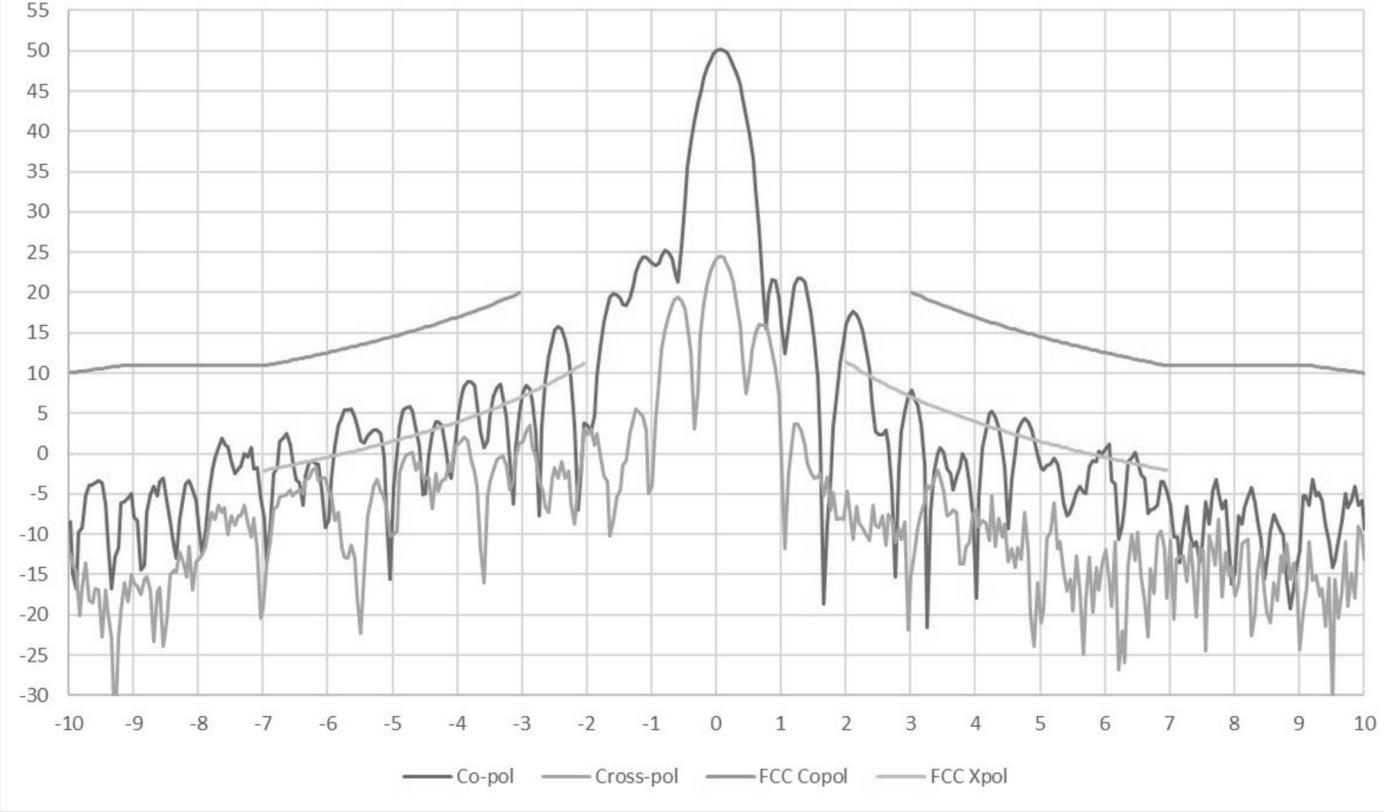
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18.568 GHz LHCP Elevation Pattern



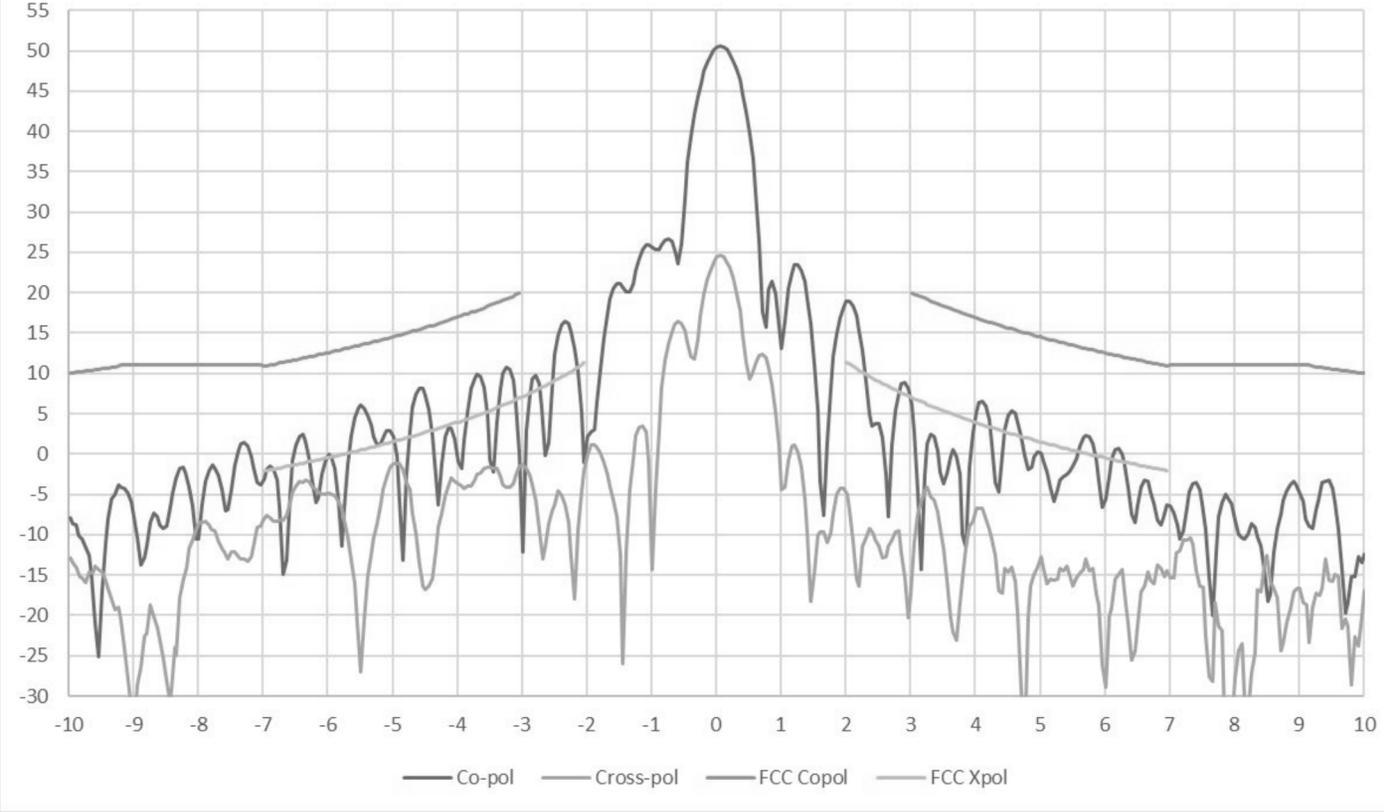
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19.3 GHz LHCP Elevation Pattern



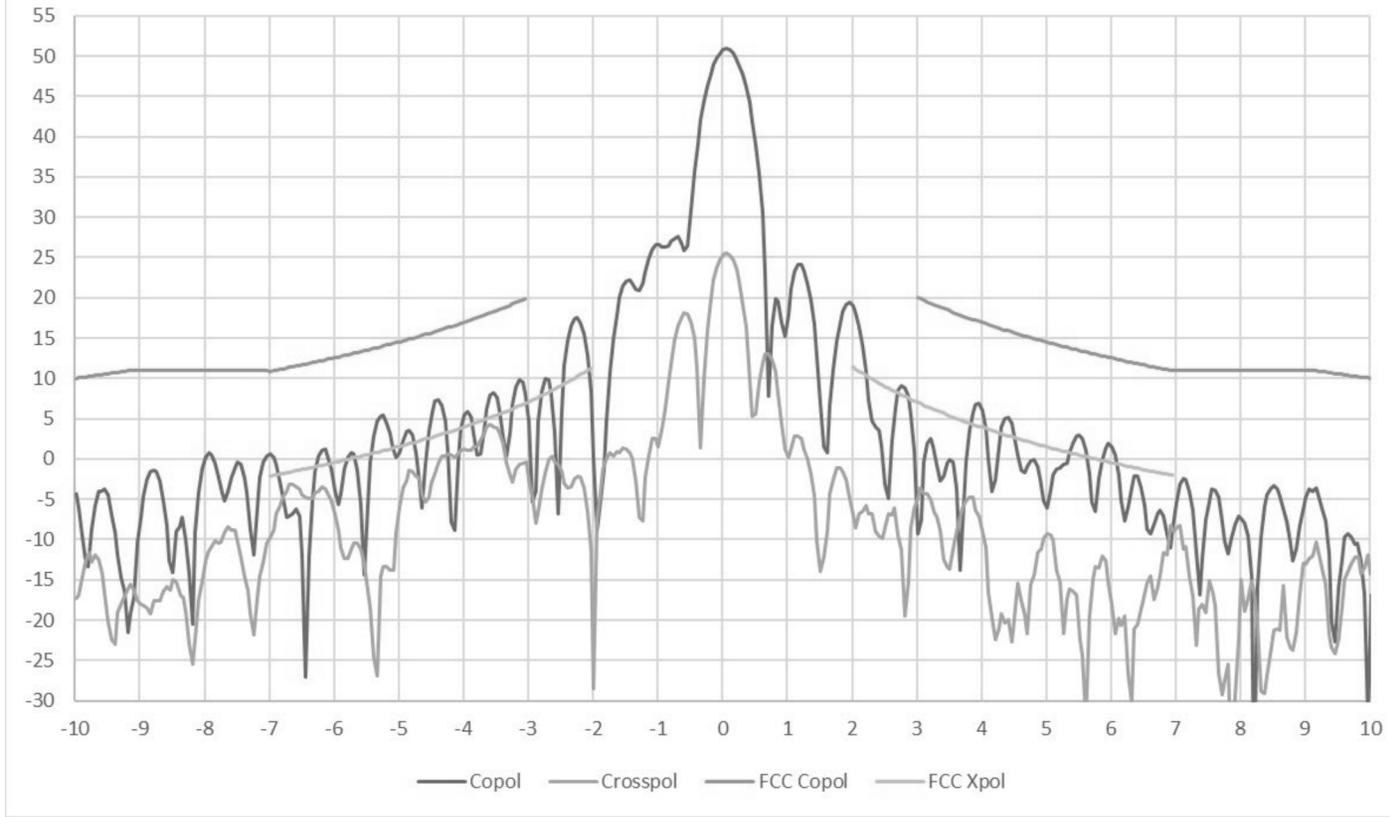
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17.835 GHz RHCP Elevation Pattern



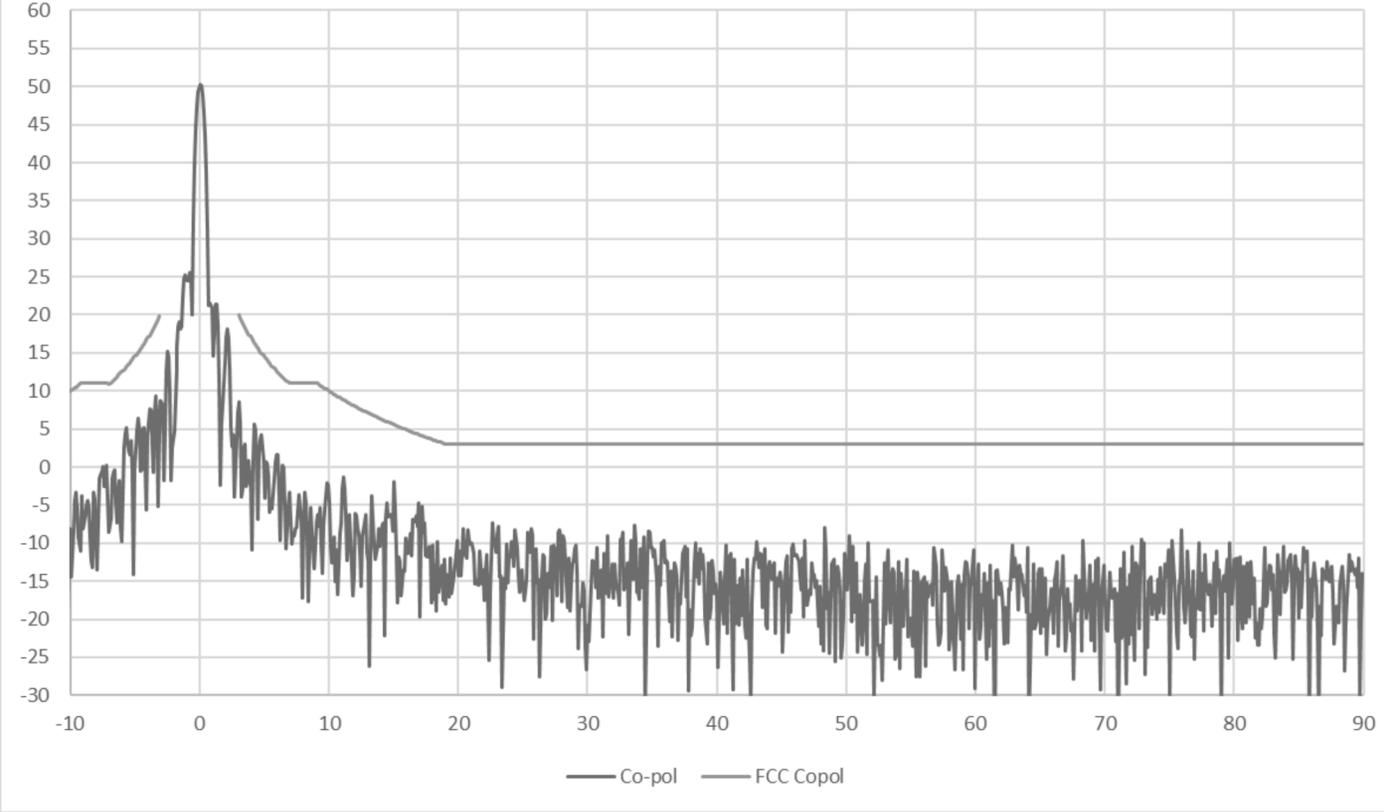
AvL 2.2m Ka Band Antenna  
18.568 GHz RHCP Elevation Pattern



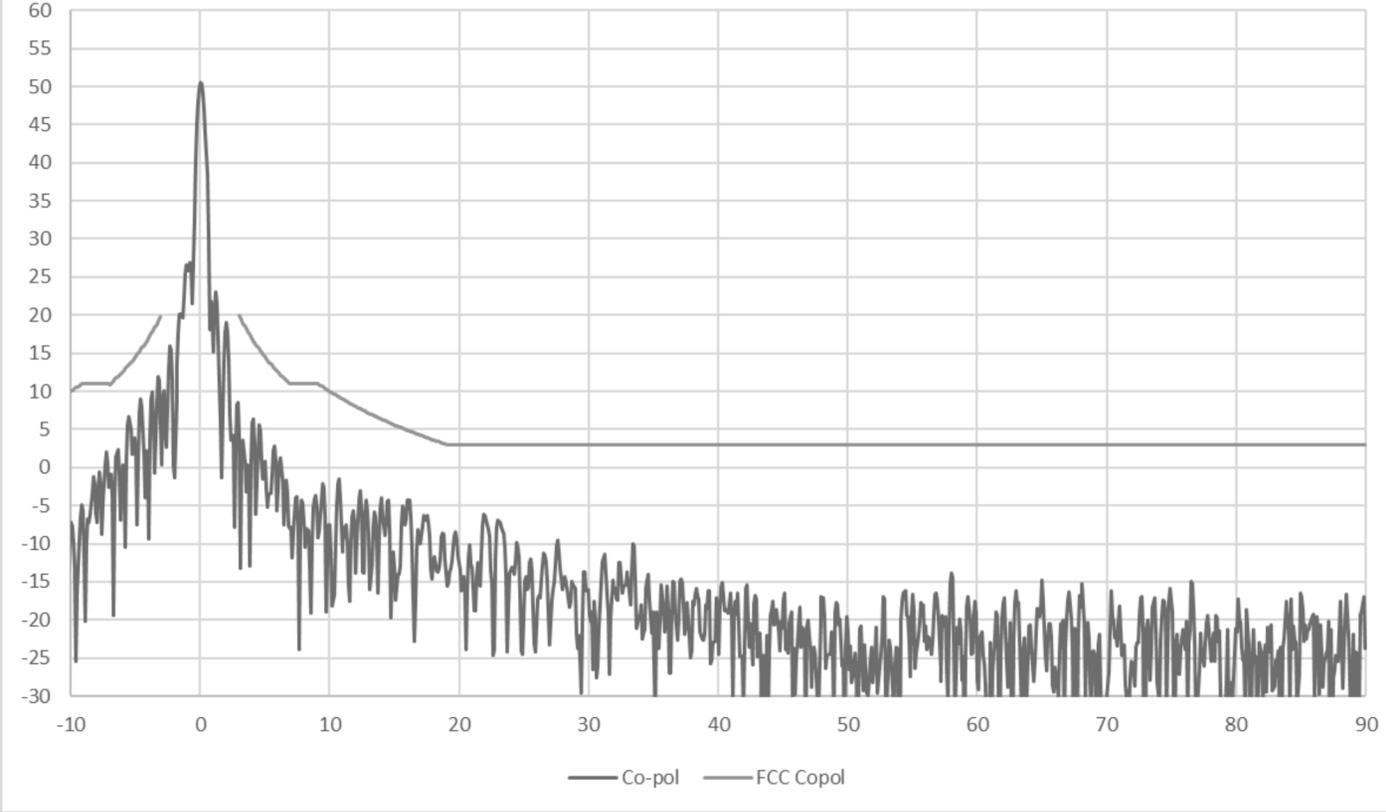
AvL 2.2m Ka Band Antenna  
19.3 GHz RHCP Elevation Pattern



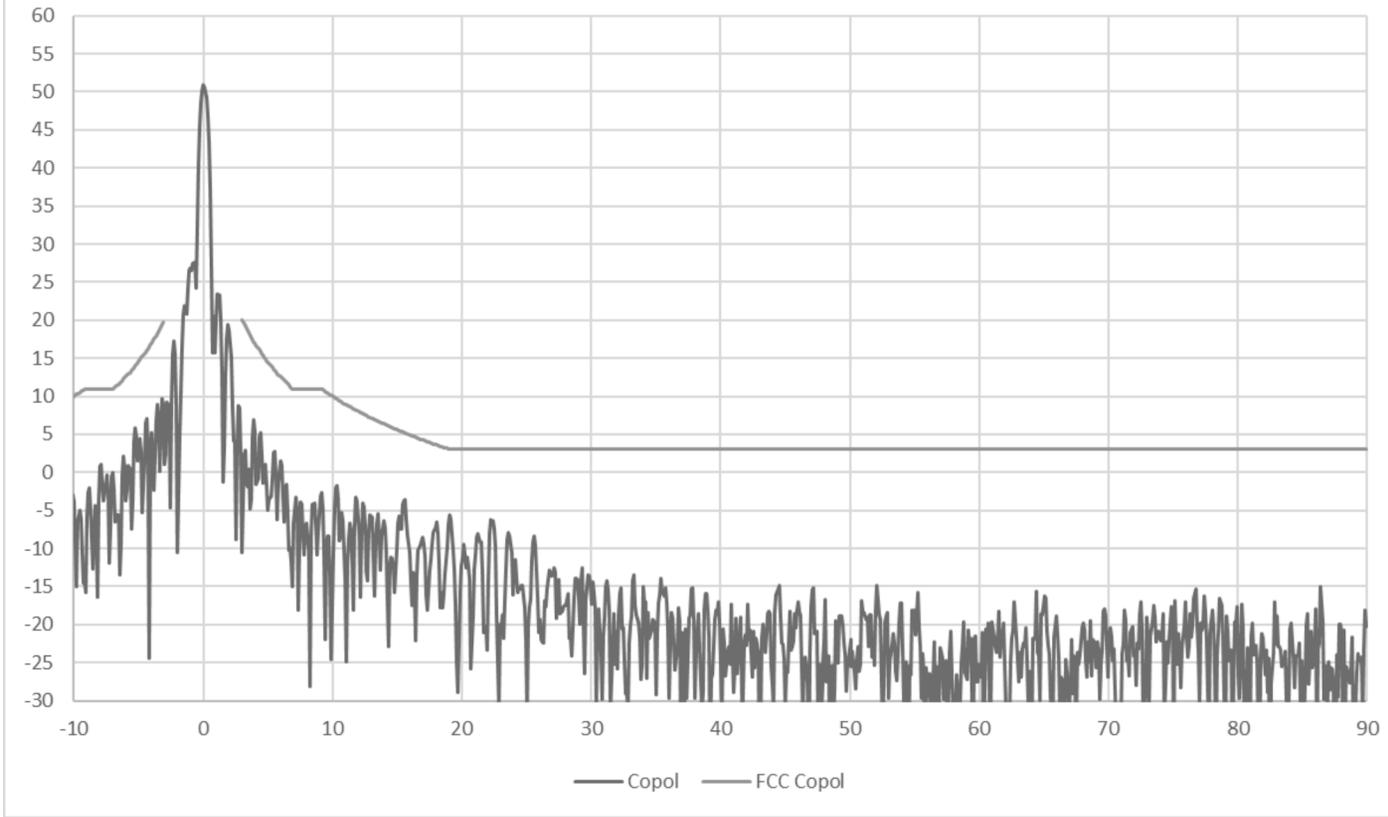
AvL 2.2m Ka Band Antenna  
17.835 GHz LHCP Elevation Pattern



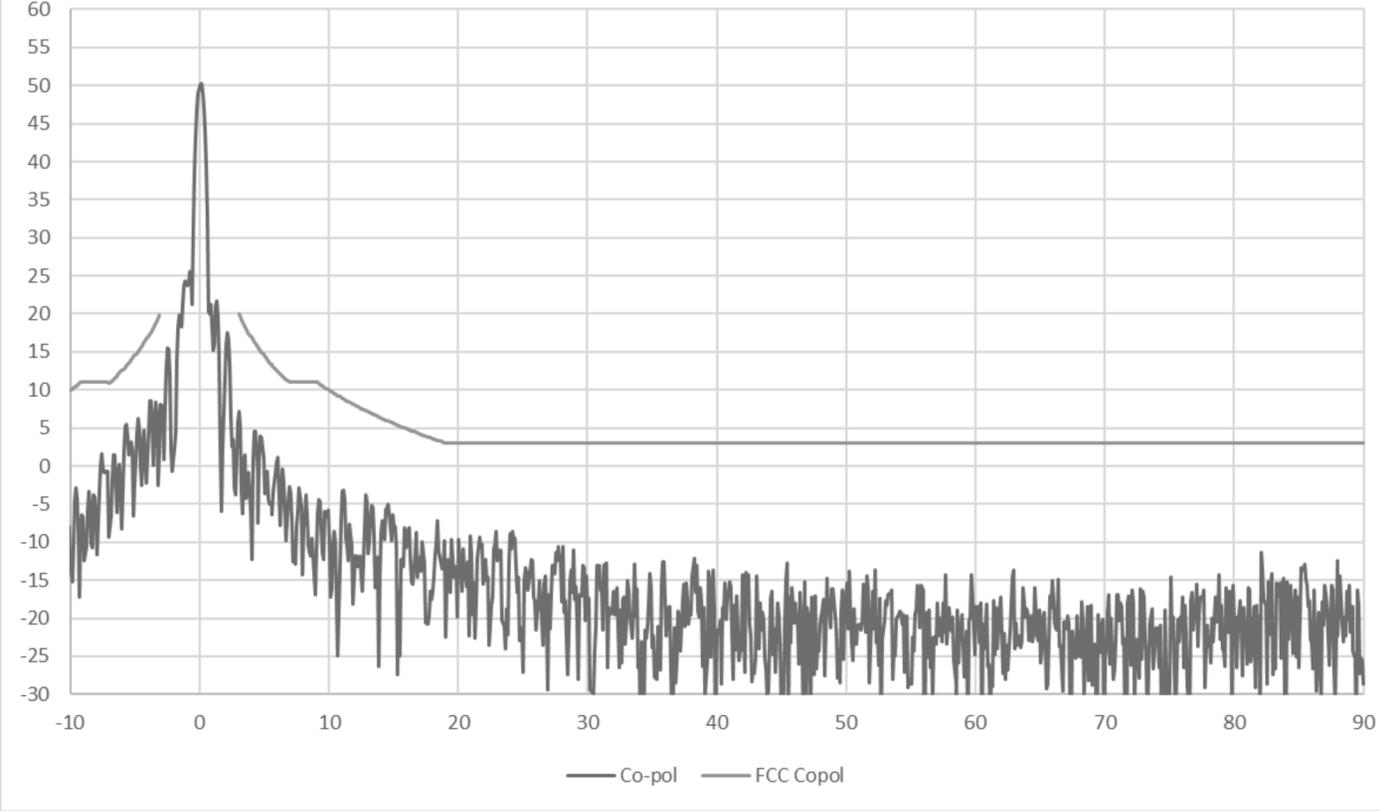
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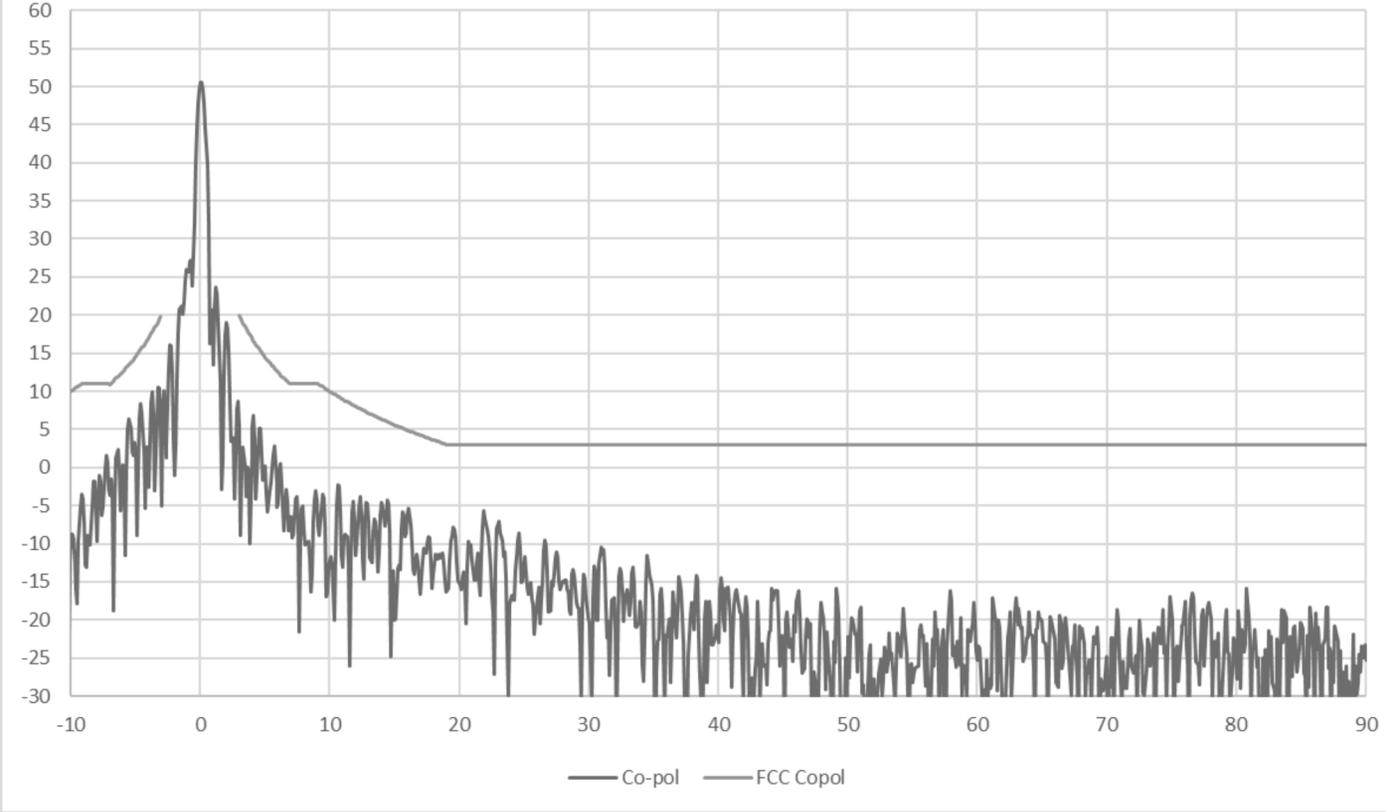
AvL 2.2m Ka Band Antenna  
19.3 GHz LHCP Elevation Pattern



AvL 2.2m Ka Band Antenna  
17.835 GHz RHCP Elevation Pattern



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18.568 GHz RHCP Elevation Pattern



AvL 2.2m Ka Band Antenna  
19.3 GHz RHCP Elevation Pattern

