

Radio approval Optiwave x500 series
Antenna characteristics for TLPR applications

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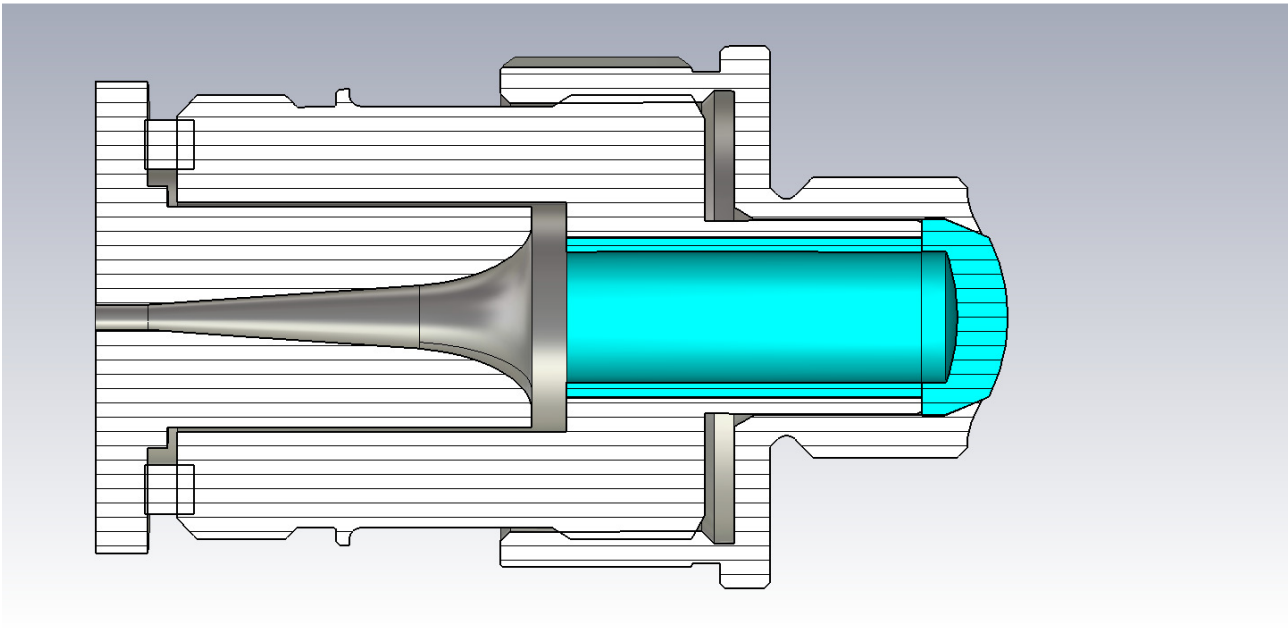
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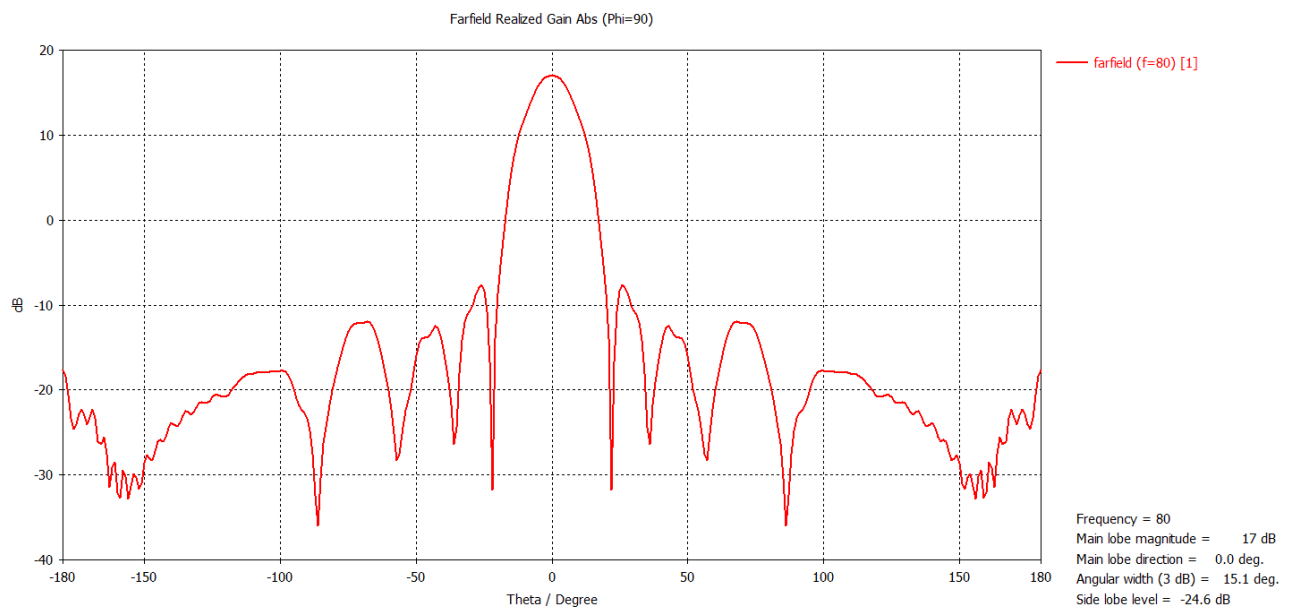
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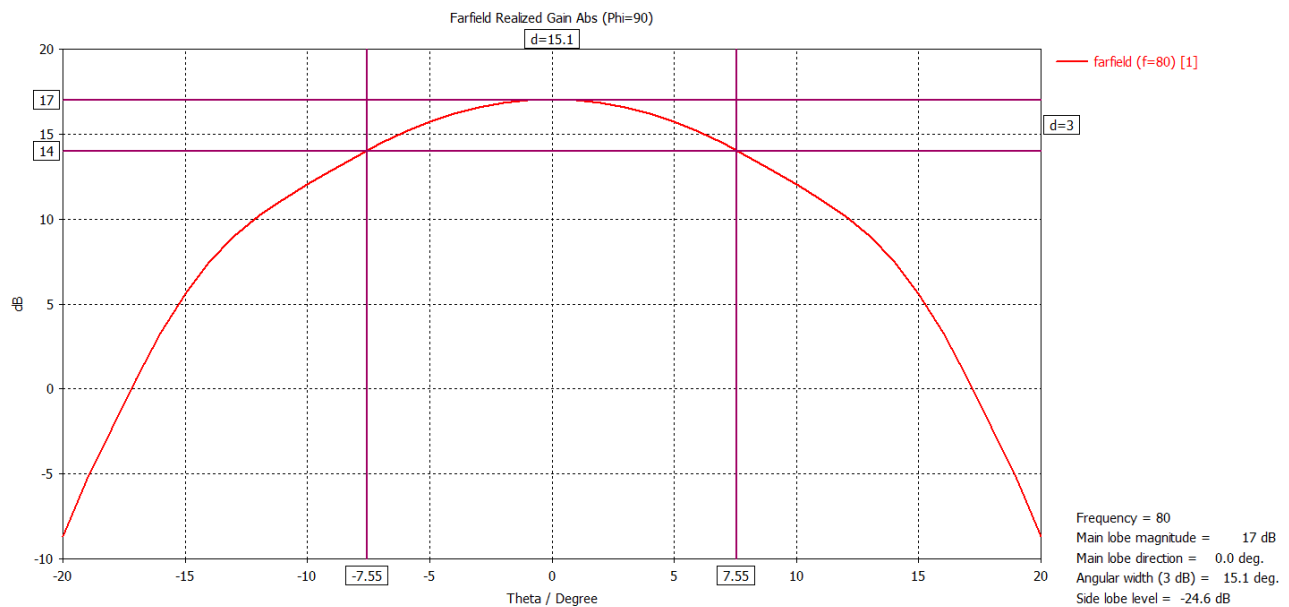
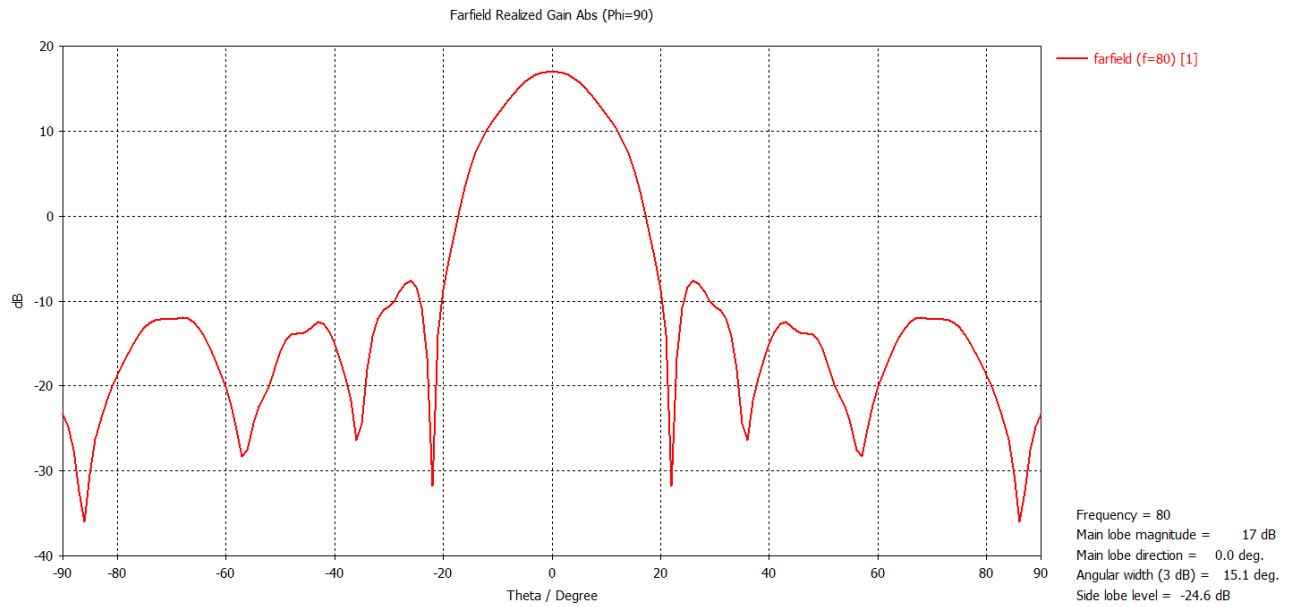
1 Antenna characteristics

1.1 Lense antenna $\frac{3}{4}$ " convex (20 mm)

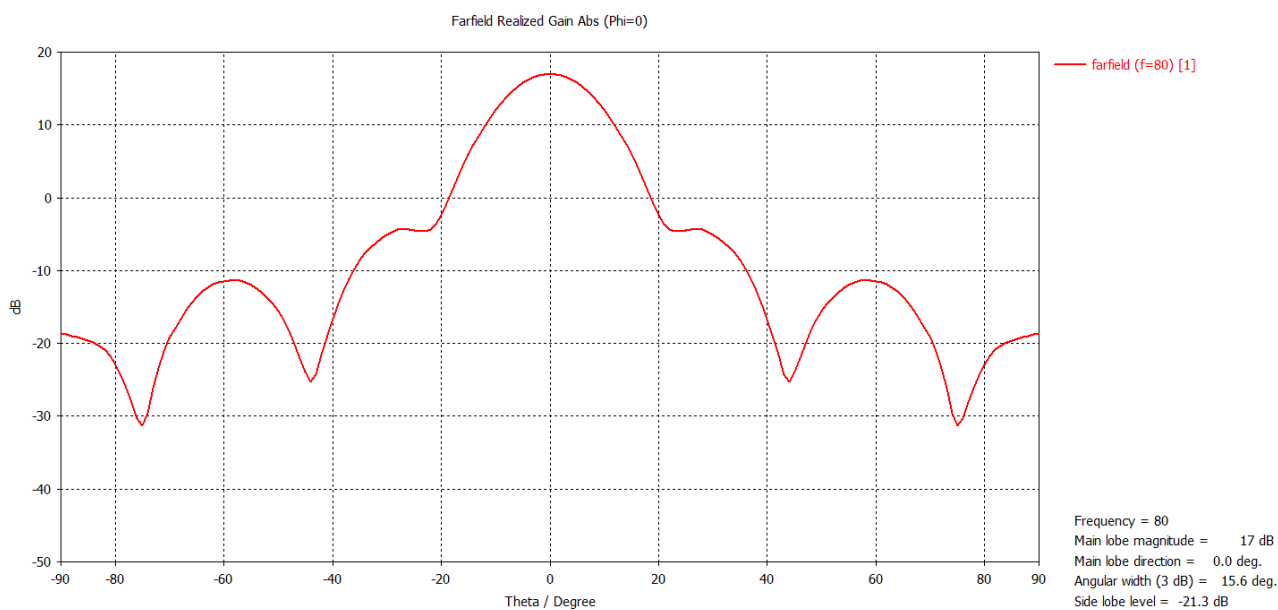
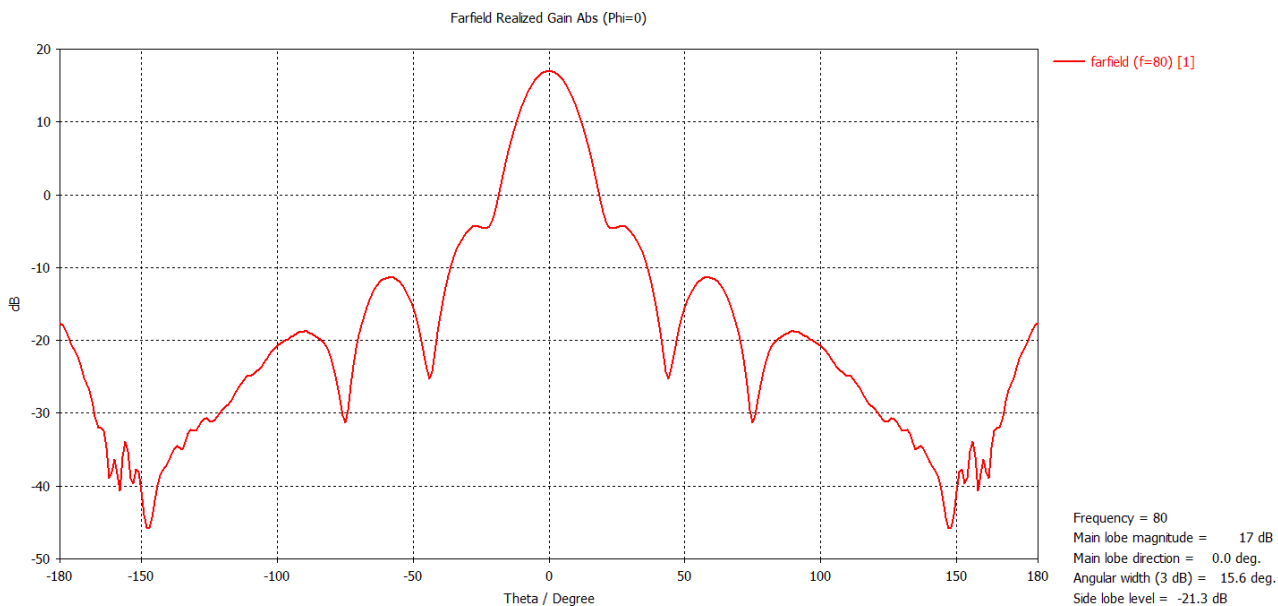


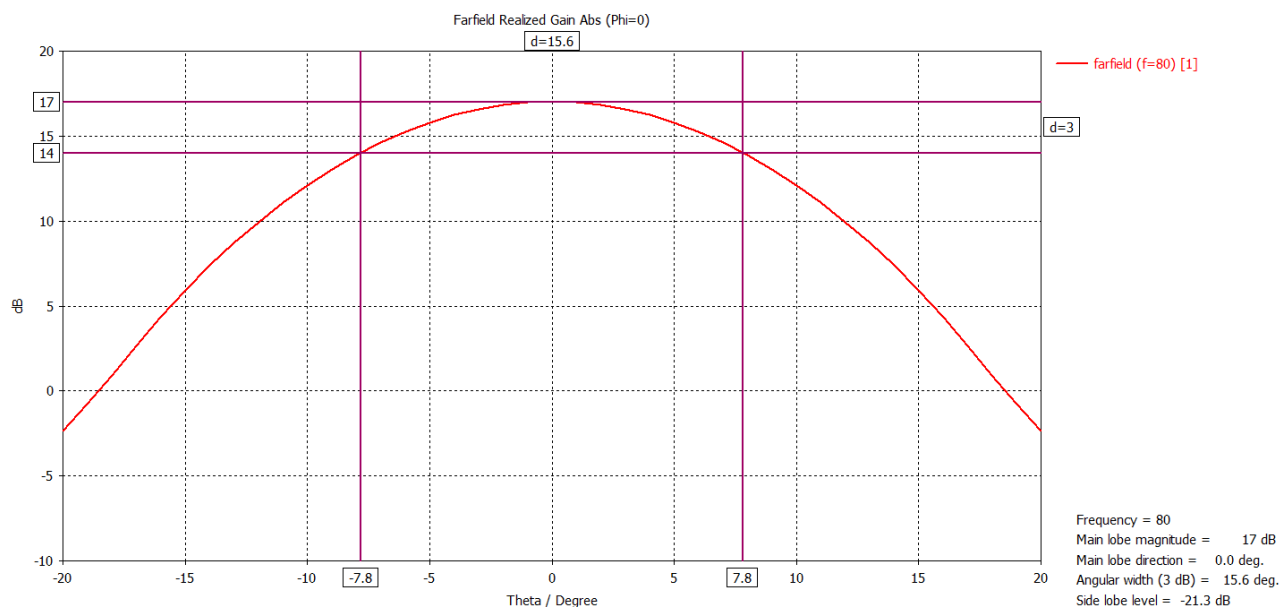
1.1.1 Radiation pattern in E-plane



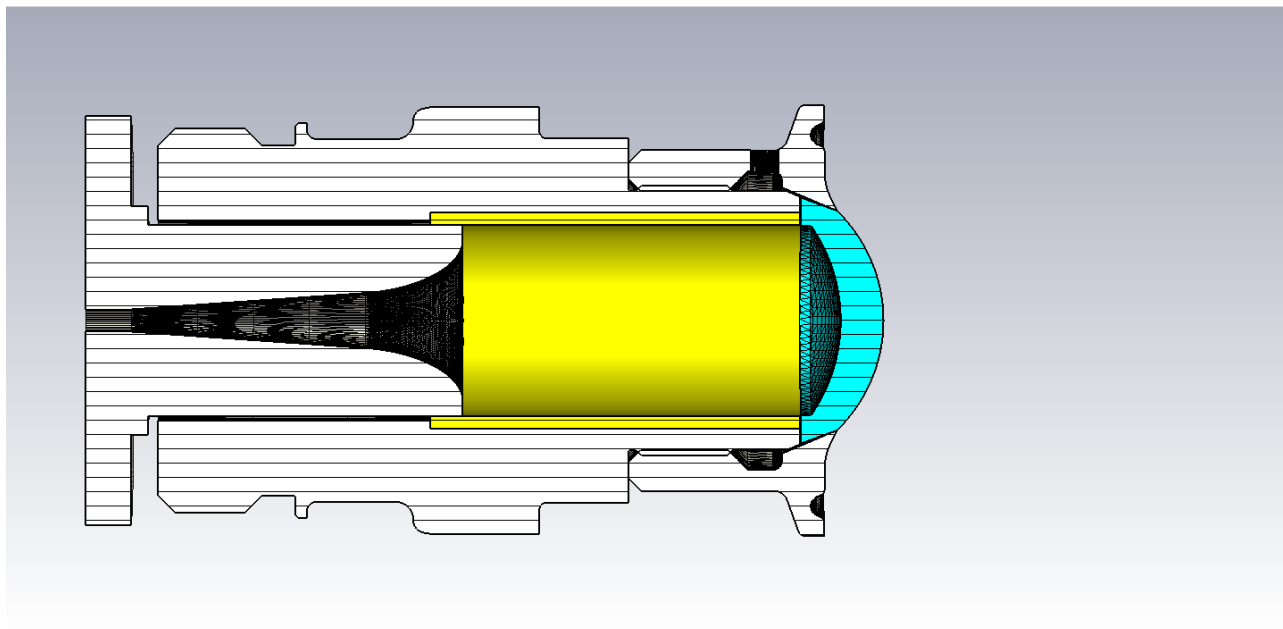


1.1.2 Radiation pattern in H-plane

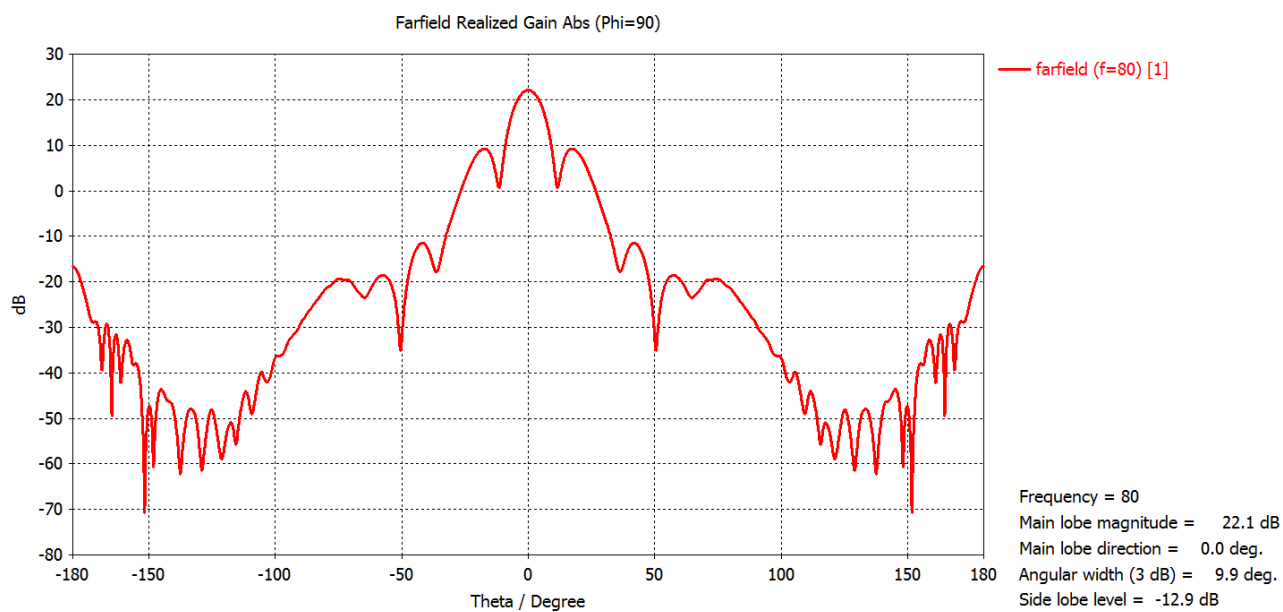


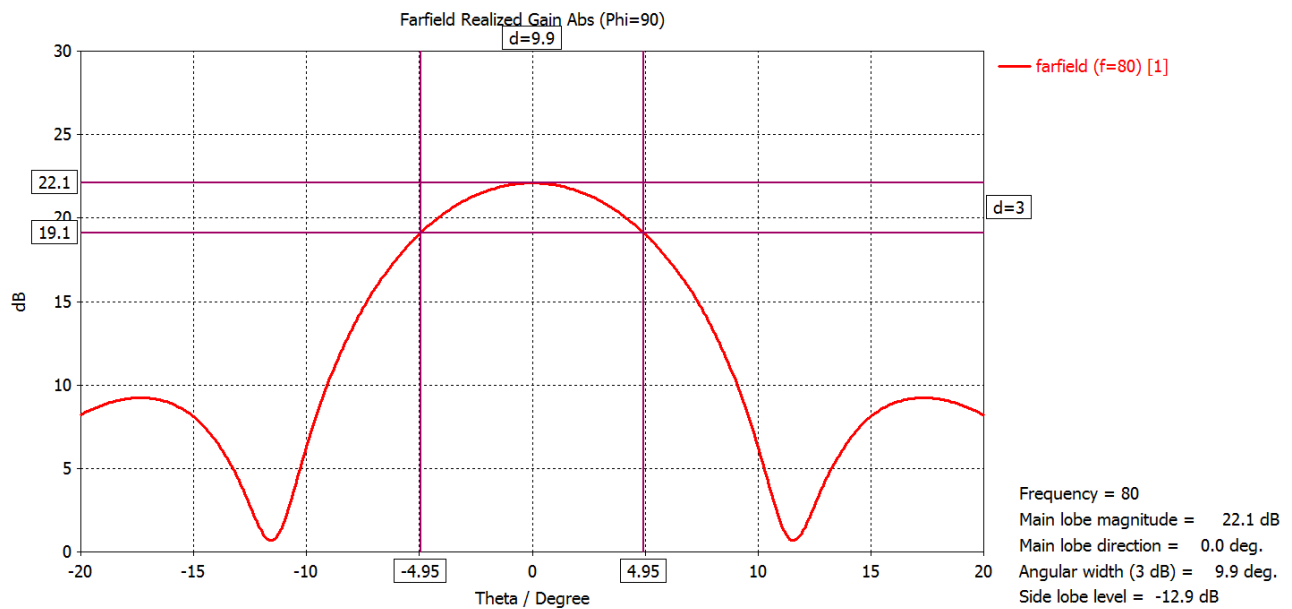
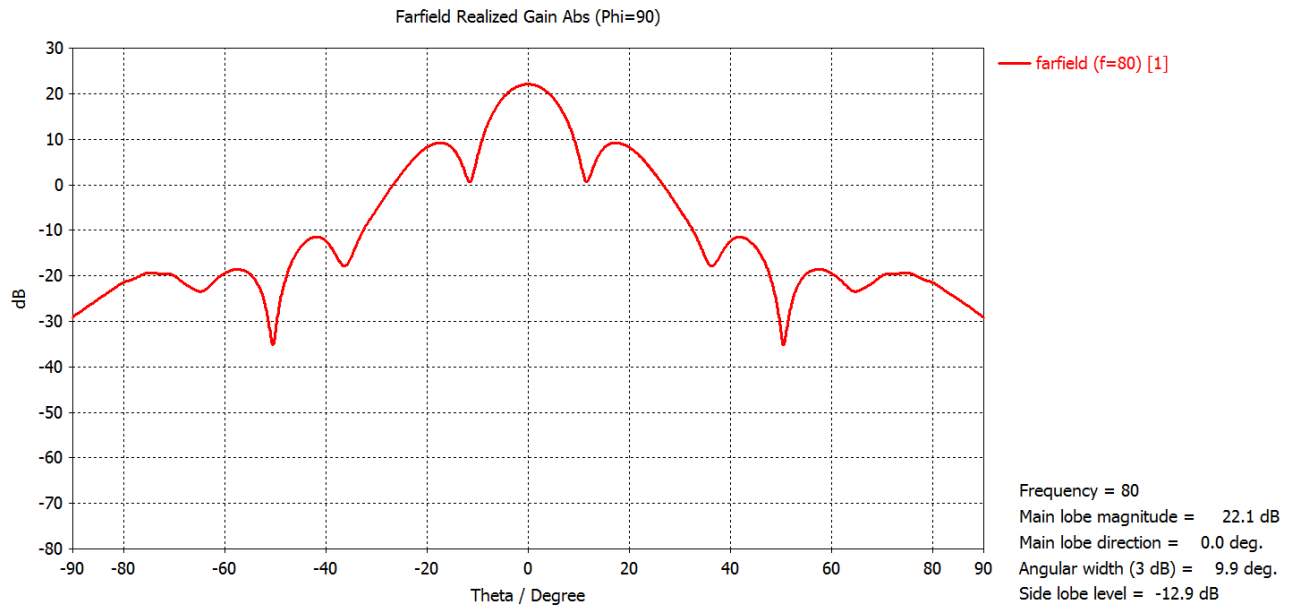


1.2 Lense antenna 1" convex (25 mm)

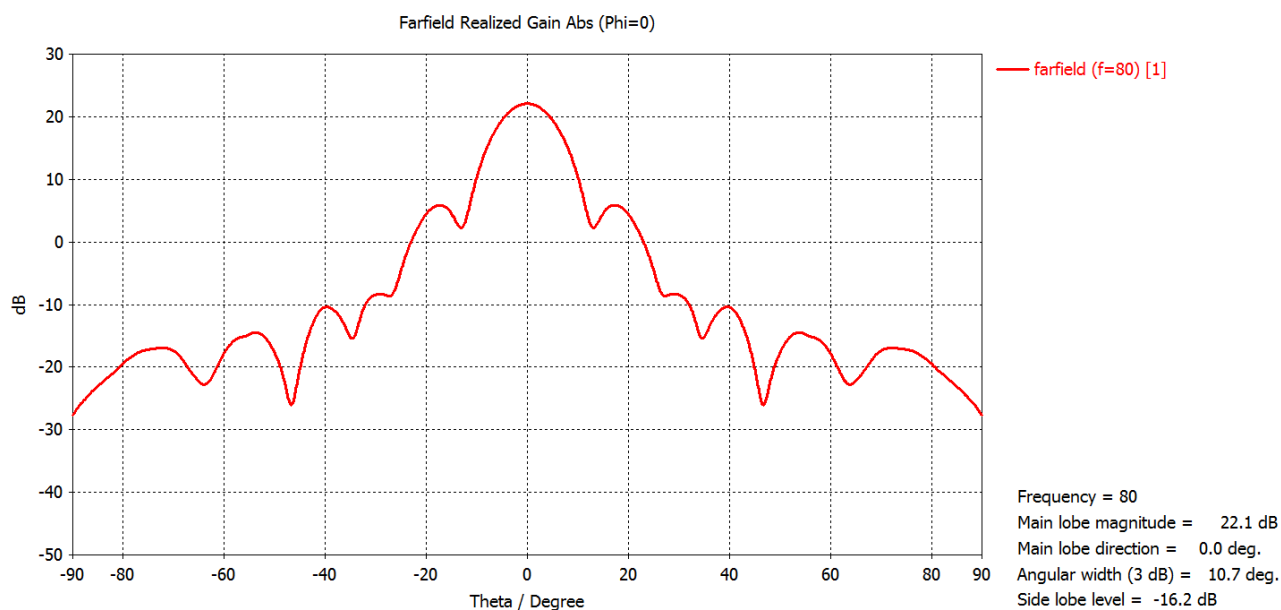
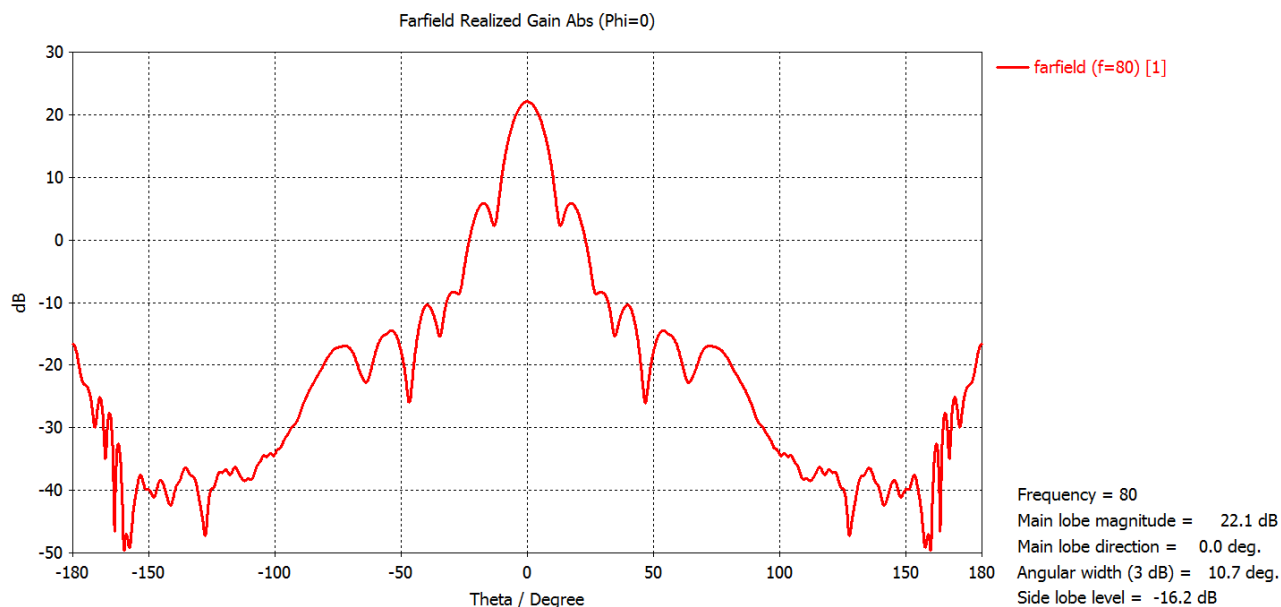


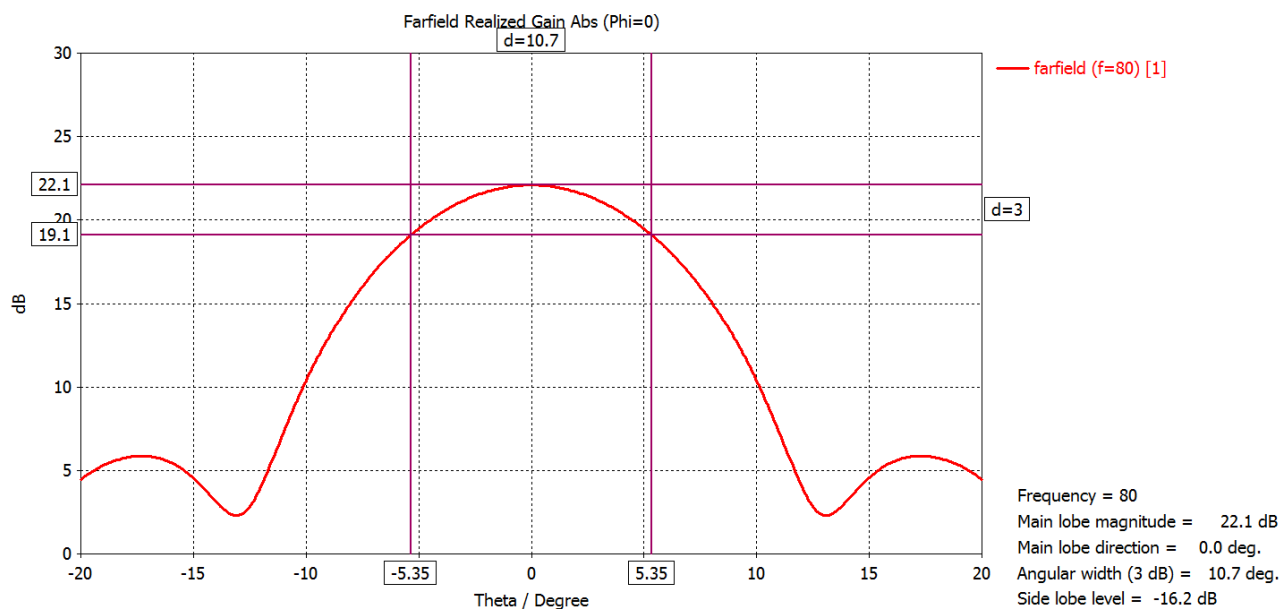
1.2.1 Radiation pattern in E-plane



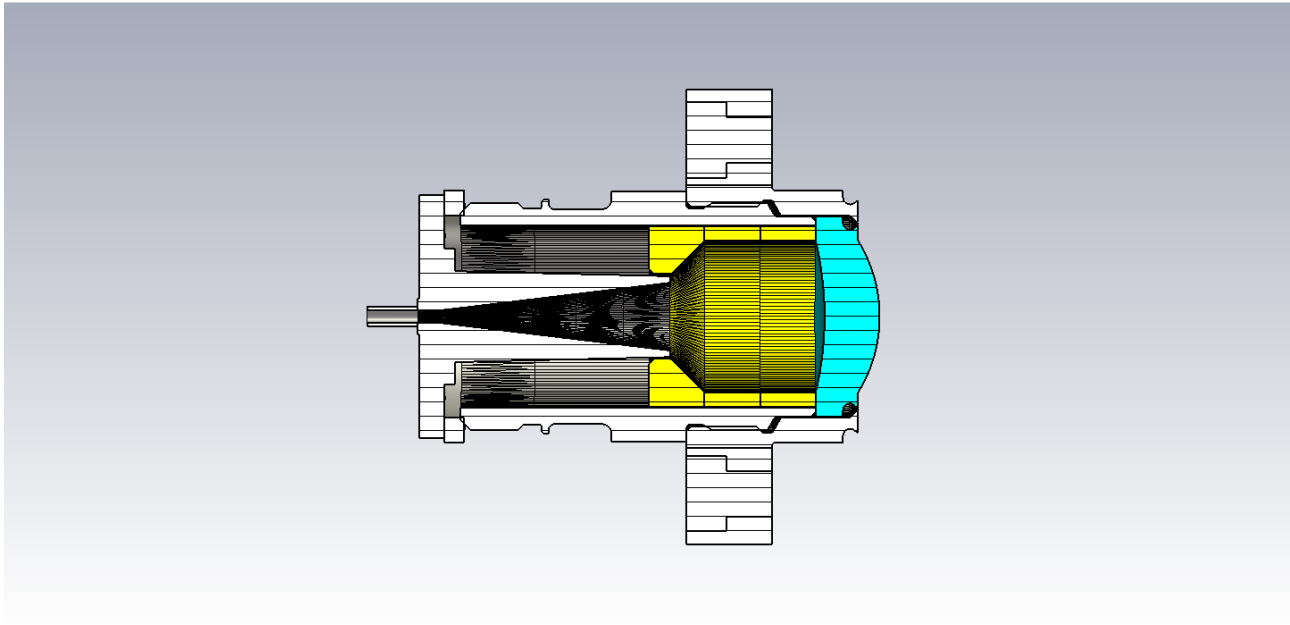


1.2.2 Radiation pattern in H-plane

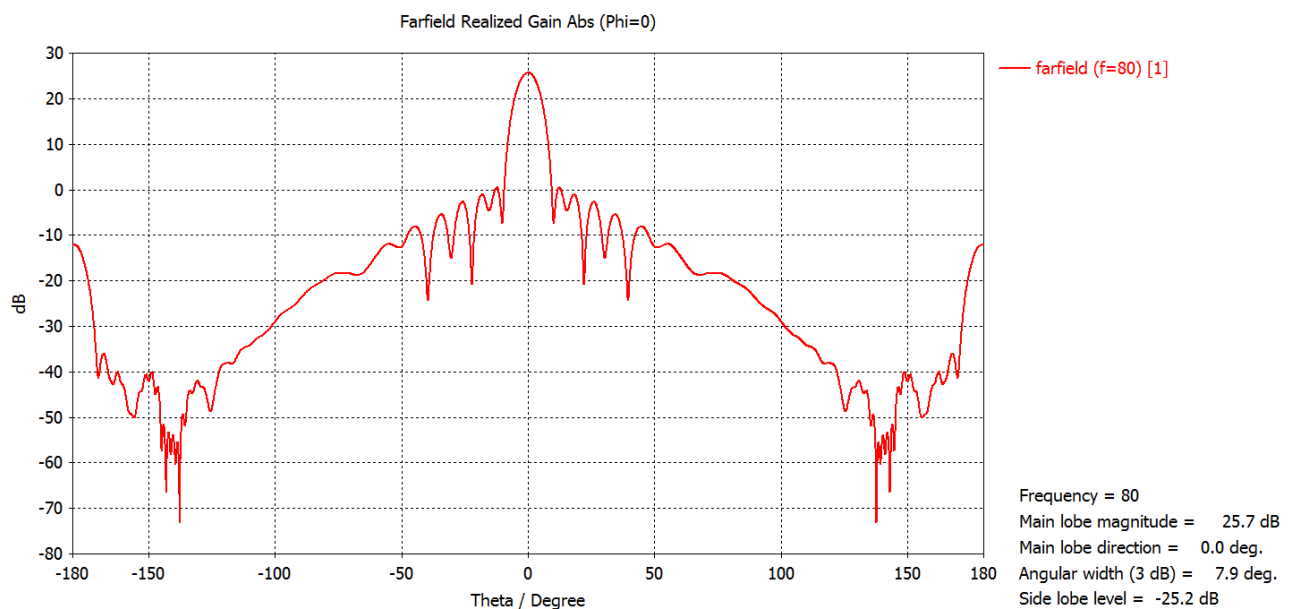


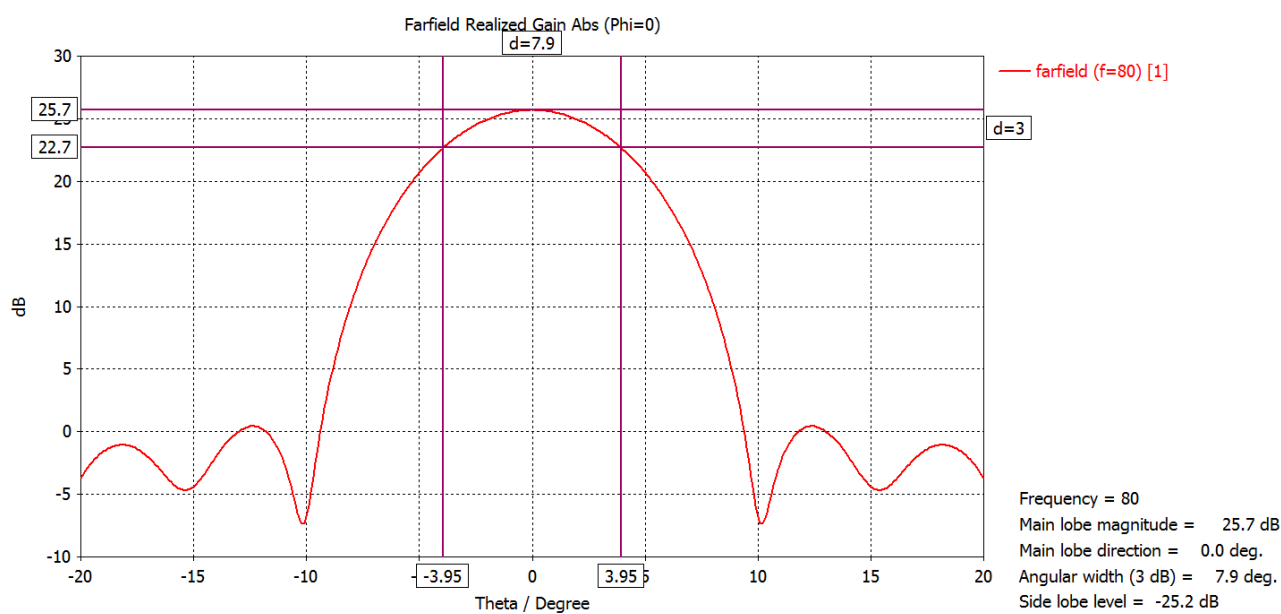
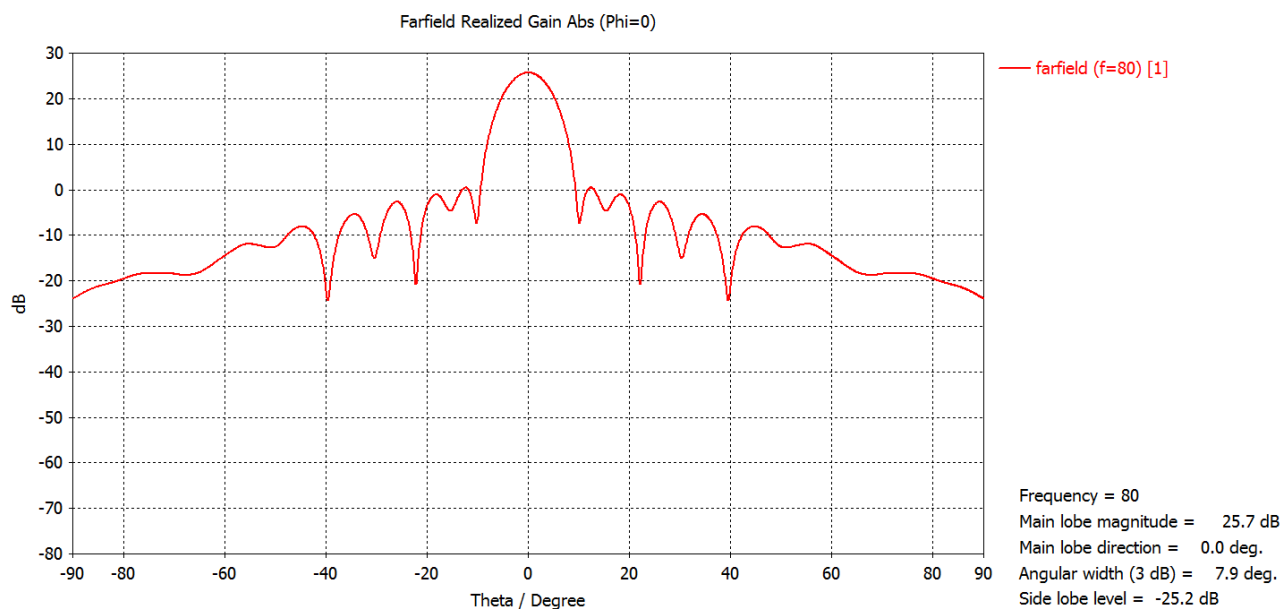


1.3 Lense antenna 1½" convex (40 mm)

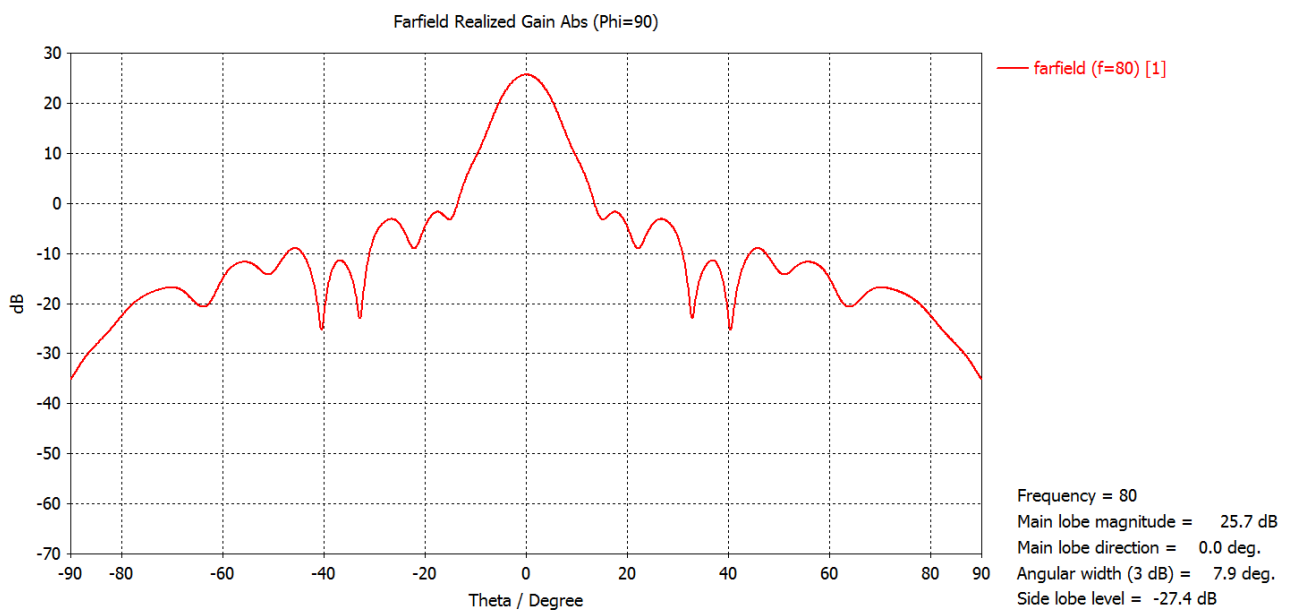
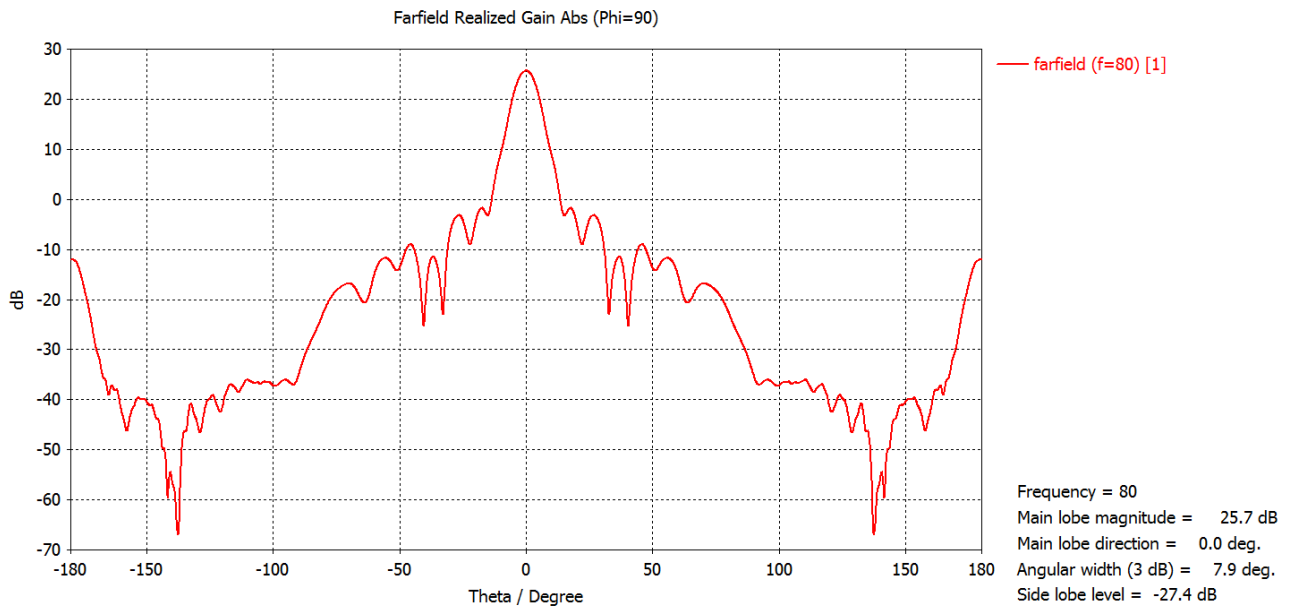


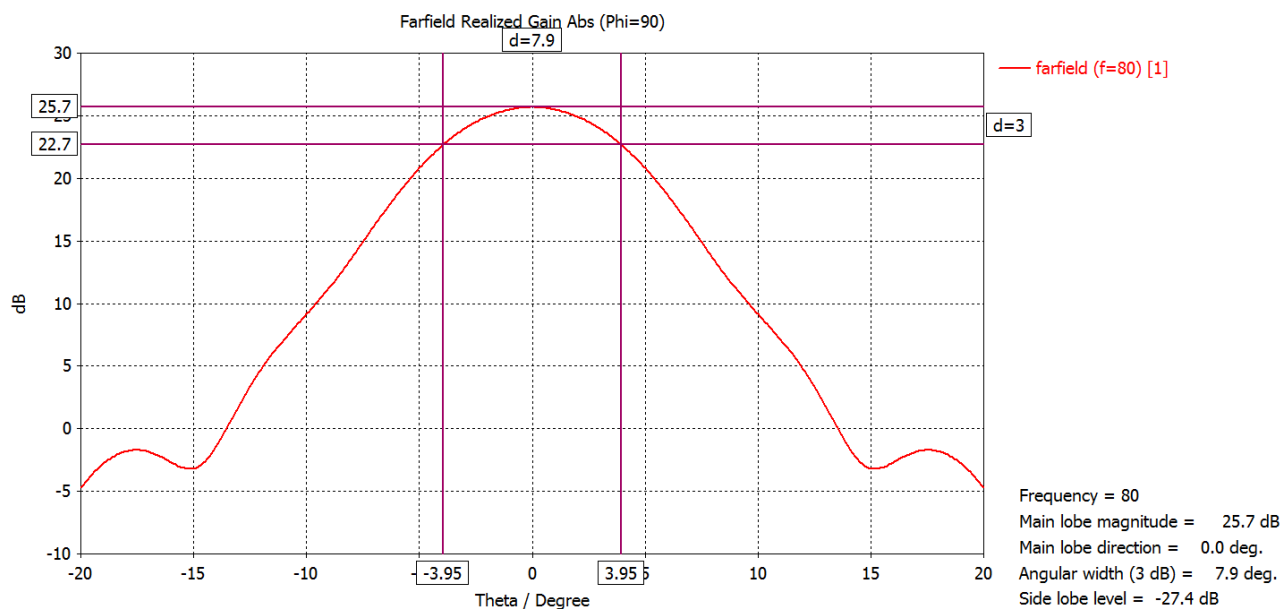
1.3.1 Radiation pattern in E-plane



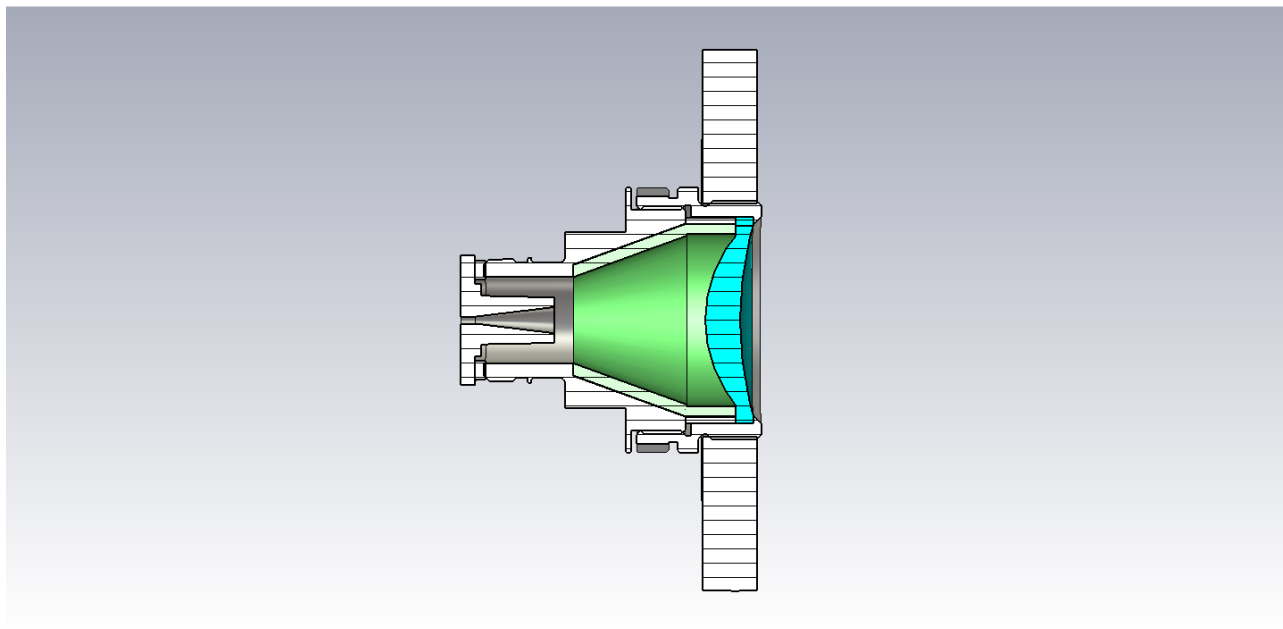


1.3.2 Radiation pattern in H-plane

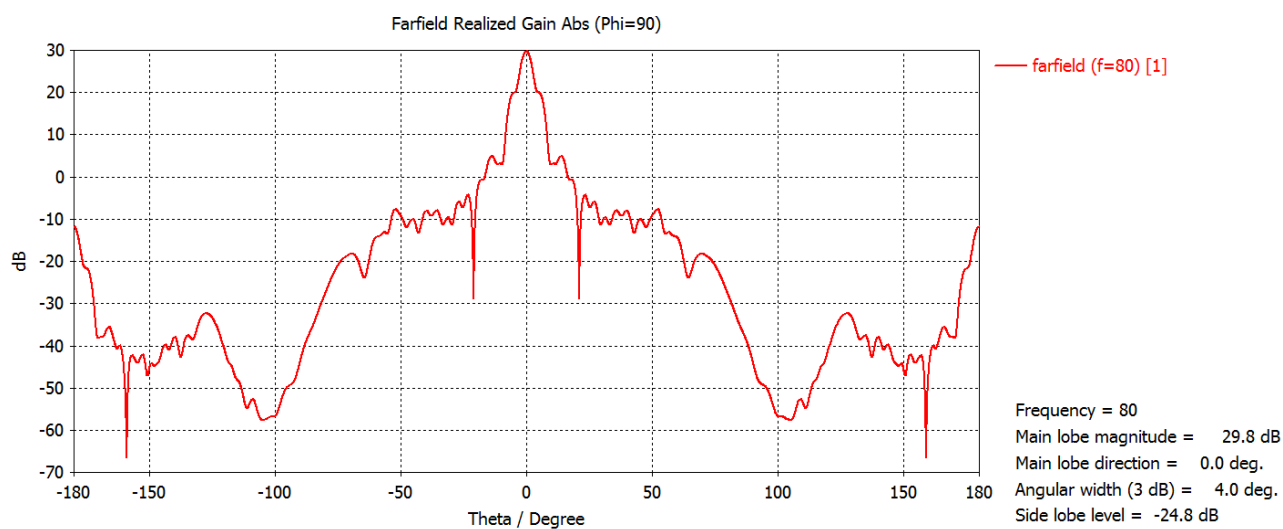


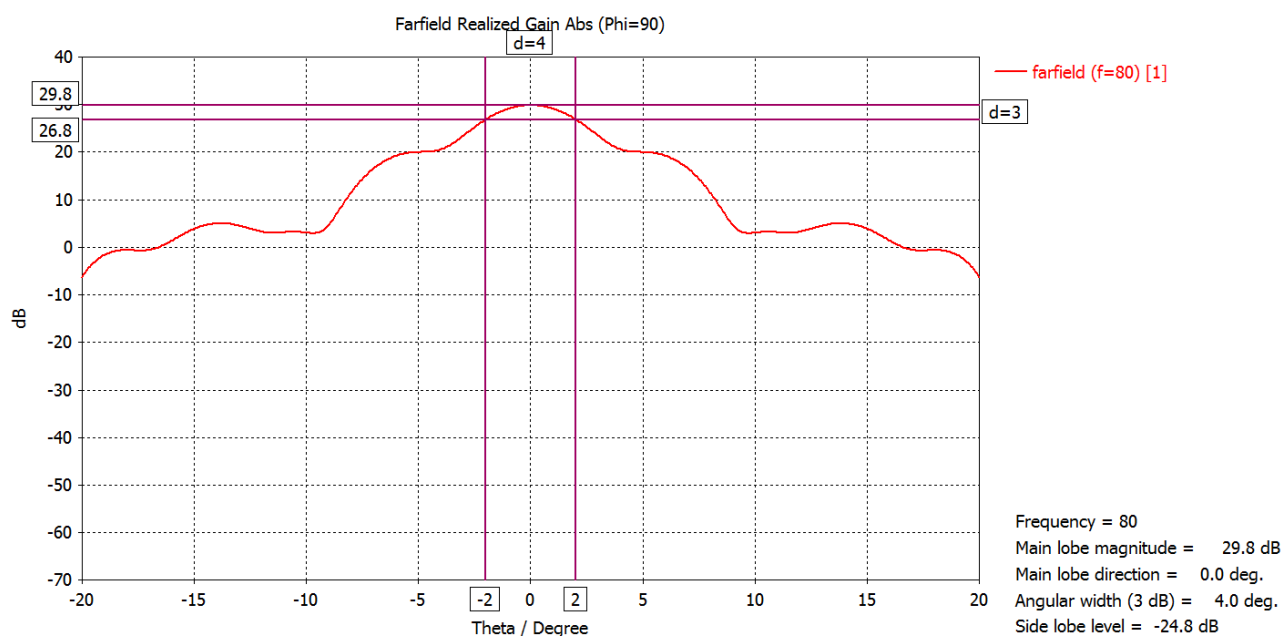
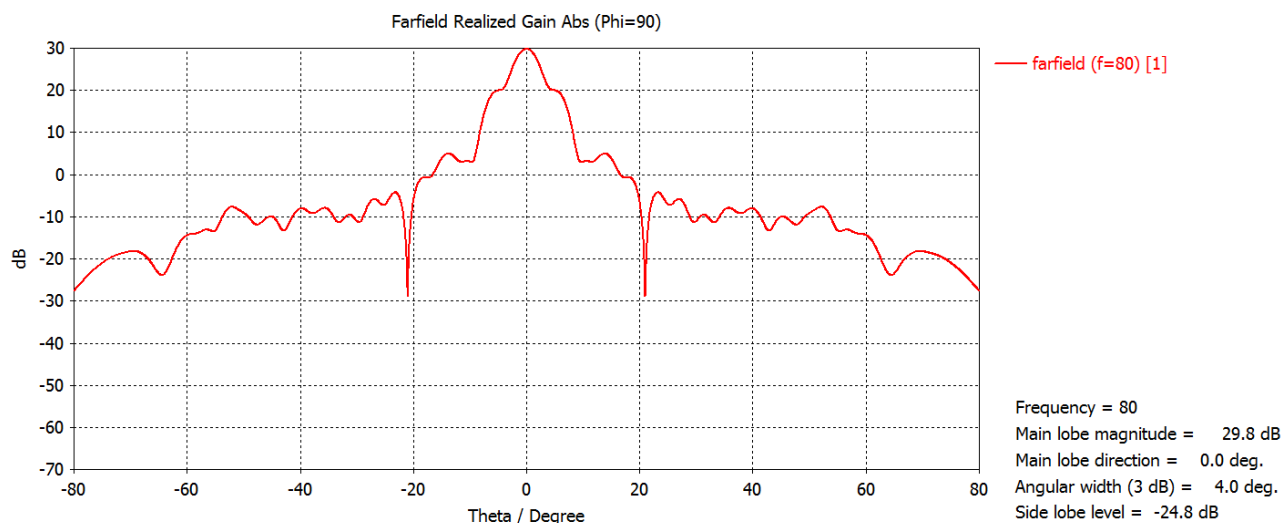


1.4 Lense antenna 2³/₄" concave (70 mm)

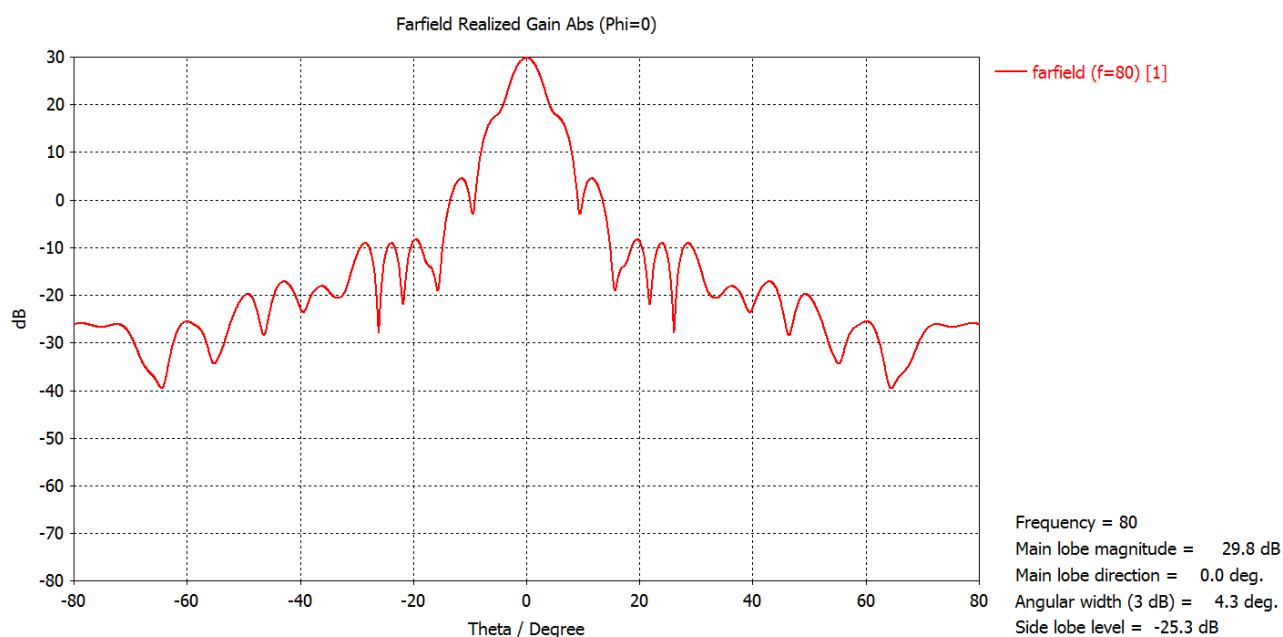
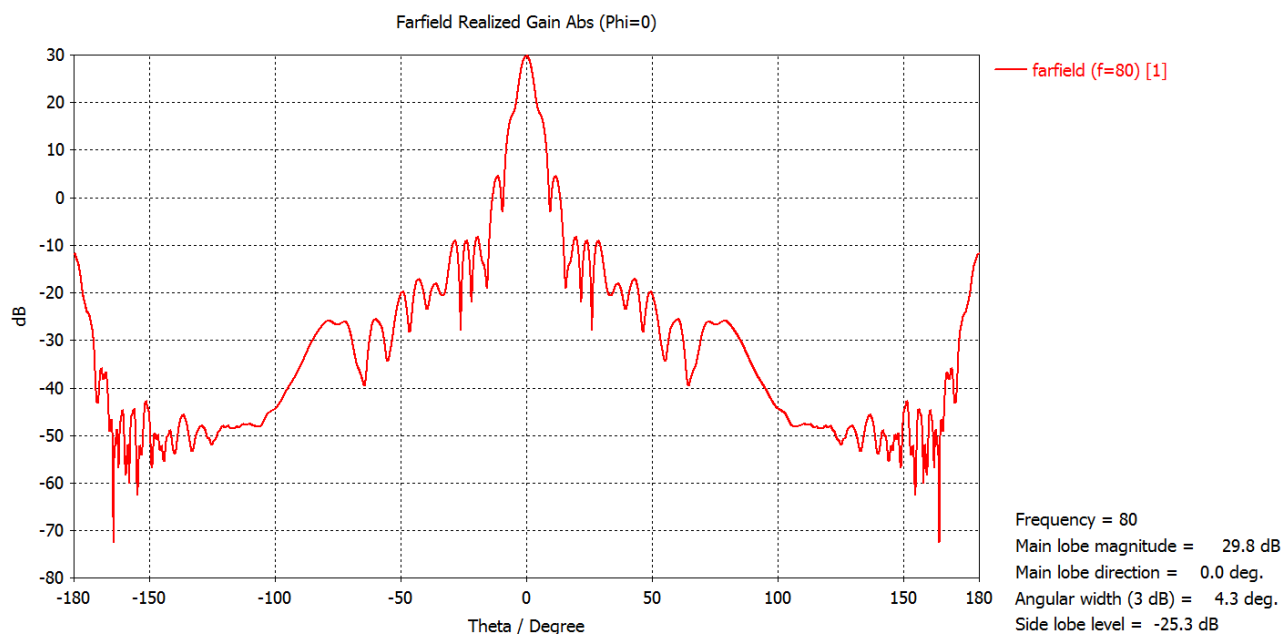


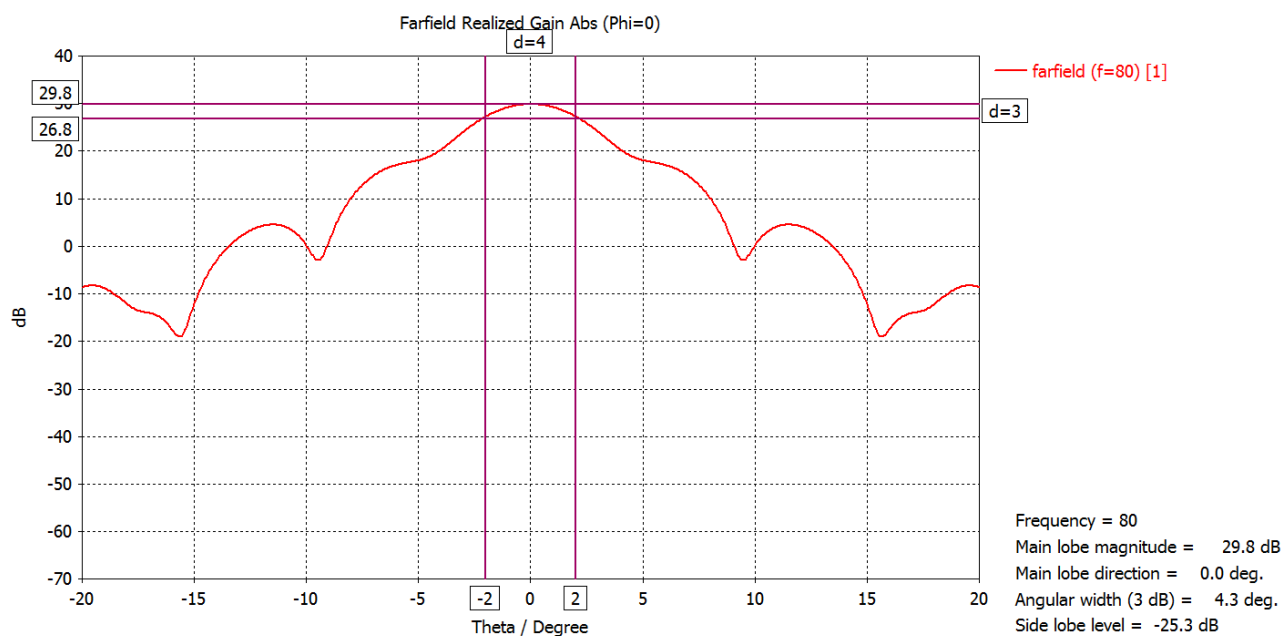
1.4.1 Radiation pattern in E-plane





1.4.2 Radiation pattern in H-plane





1.5 Antenna overview

Type	Gain [dB]	Angular width E- / H-plane [°]
Lense antenna $\frac{3}{4}$ " convex (20 mm)	17.0	15.1 / 15.6
Lense antenna 1" convex (25 mm)	22.1	9.9 / 10.7
Lense antenna $1\frac{1}{2}$ " convex (40 mm)	25.7	7.9 / 7.9
Lense antenna $2\frac{3}{4}$ " concave (70 mm)	29.8	4.0 / 4.3