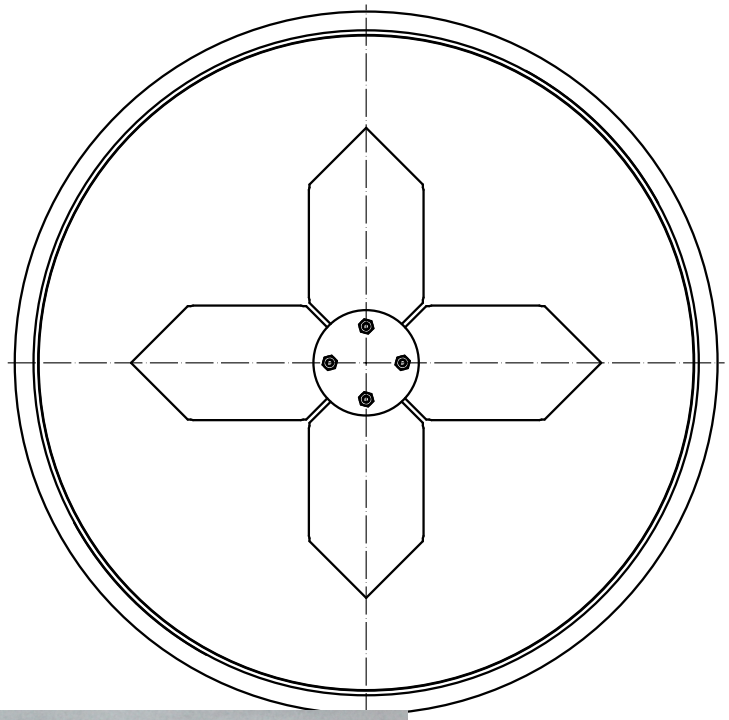
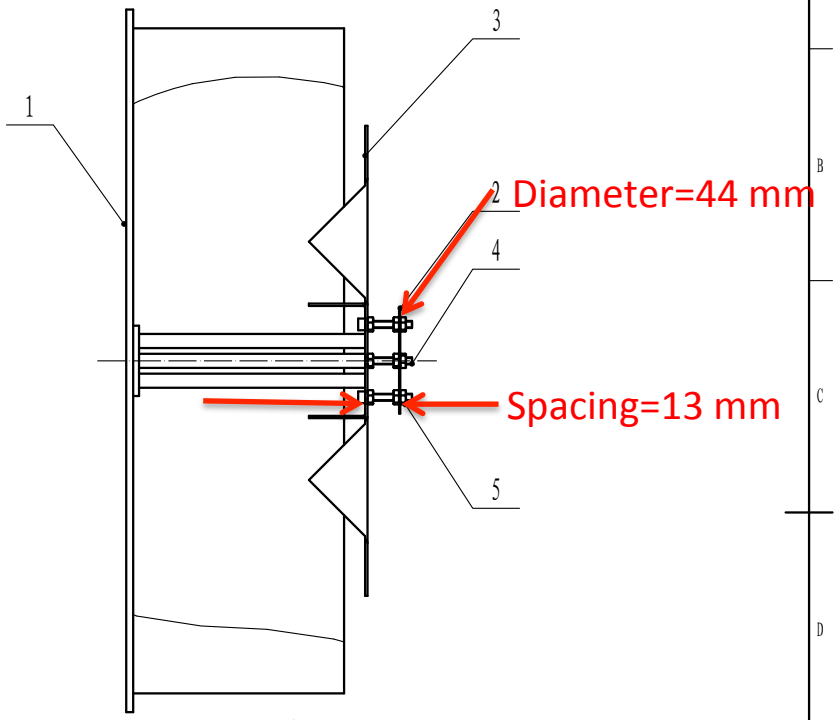
UW status – 11 June 2013

- Simulations of NAOC/CETC54 feed antenna
- Plans to build a copy
- Test copy at local antenna range
- Plans to integrate with LNA from Jeff Peterson

Simulations of NAOC/CETC54 feed





序号	编号	名称	数量	备注
5	US8.934.C2940	螺母	12	
4	US8.926.C0522	螺柱	4	
3	US8.610.C17085	振子	4	
2	US8.031.C4798	匹配盘	1	
1	US5.967.C0469	腔体	1	

标记	数量	分区	更改单号	签名	日期
设 计					
审 核					
工 艺					
标准化					
批 准					

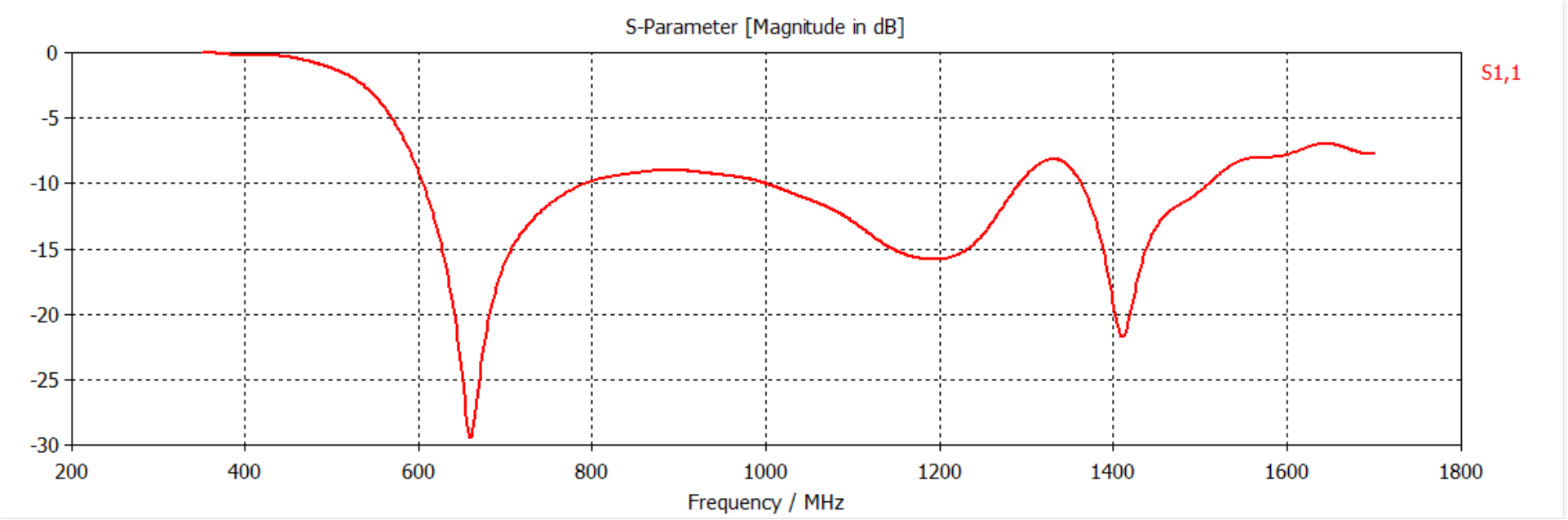
宽带馈源

US2.946.C0761

阶段标记	质量	比例
		1:2

第 1 张　　共 1 张

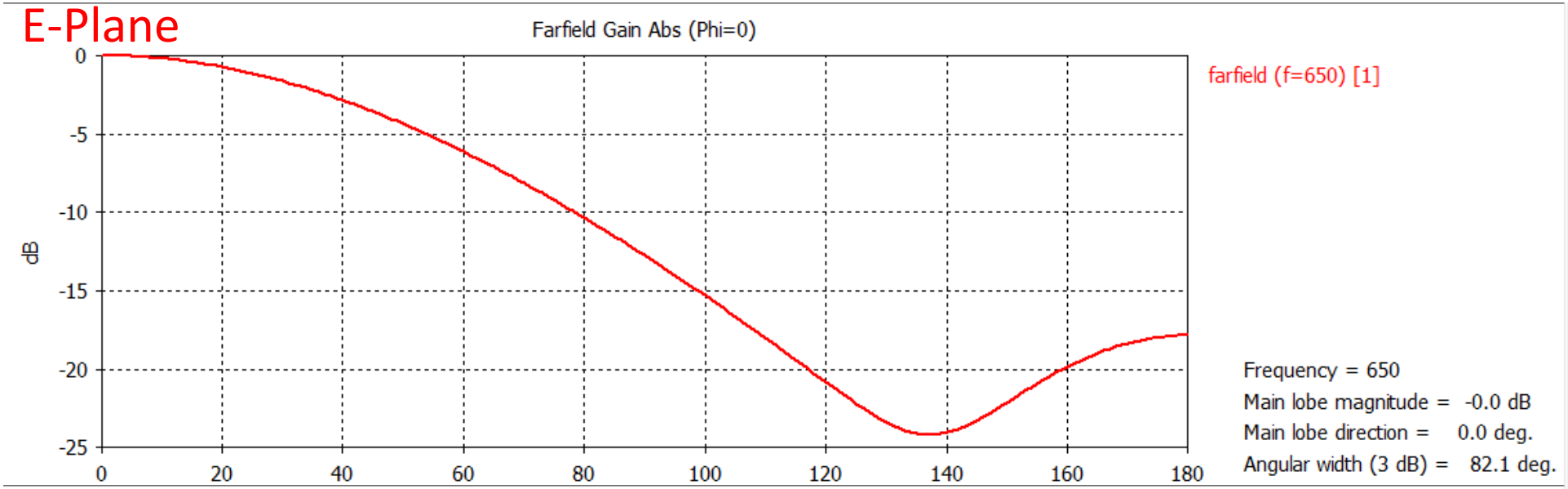
Simulations of NAOC/CETC54 4-square antenna using CST Microwave Studio at UW



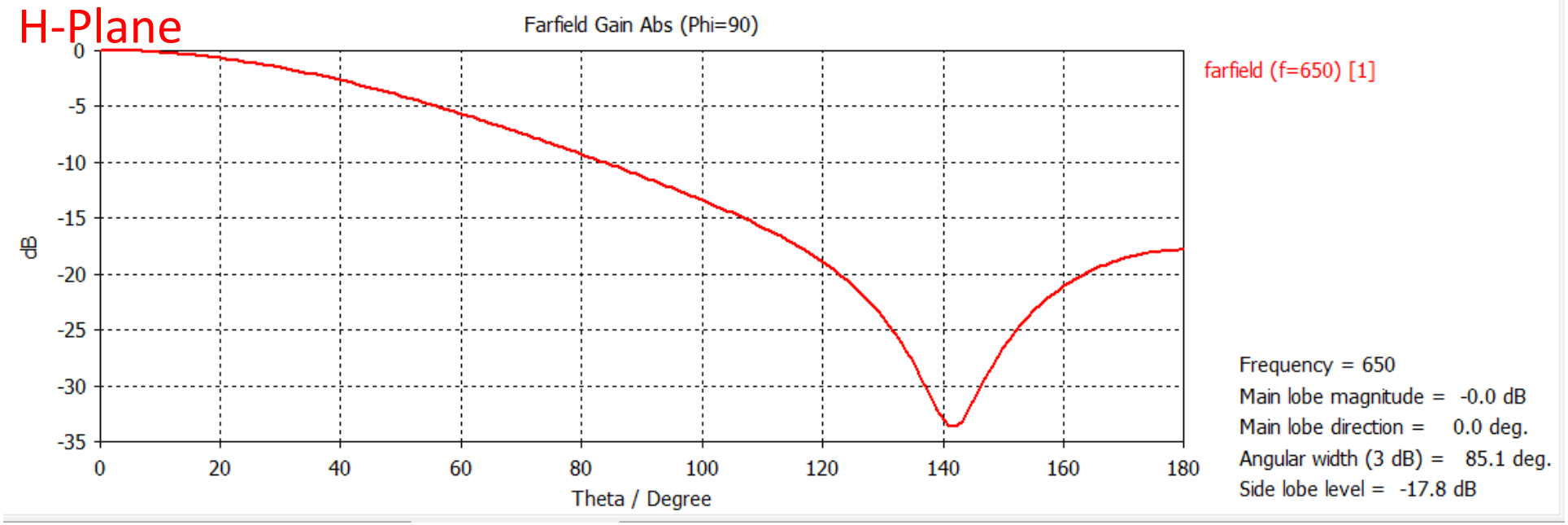
Aleks Cianciara, Chris Anderson

650 MHz

E-Plane

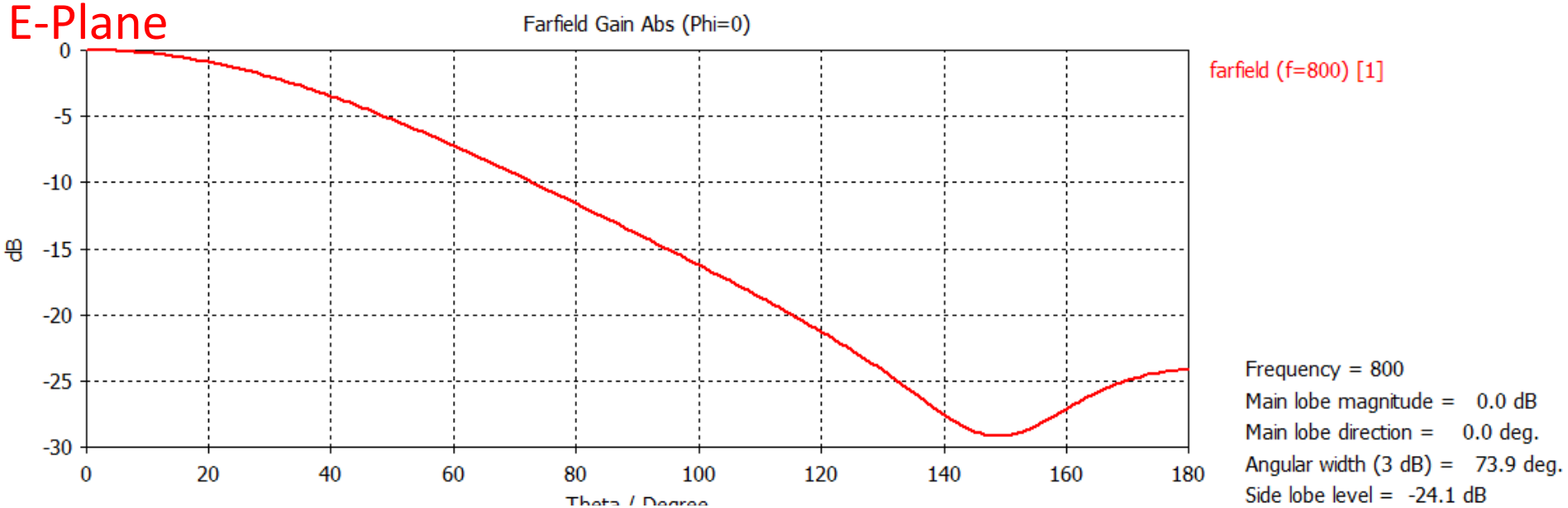


H-Plane



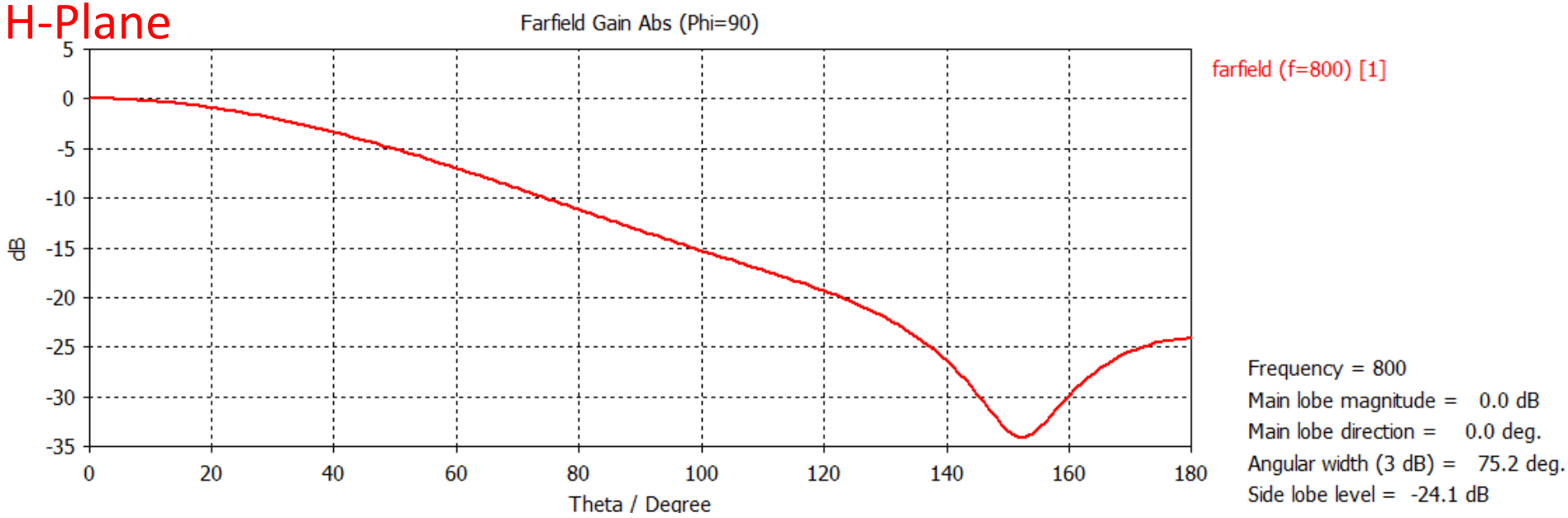
800 MHz

E-Plane



Frequency = 800
Main lobe magnitude = 0.0 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 73.9 deg.
Side lobe level = -24.1 dB

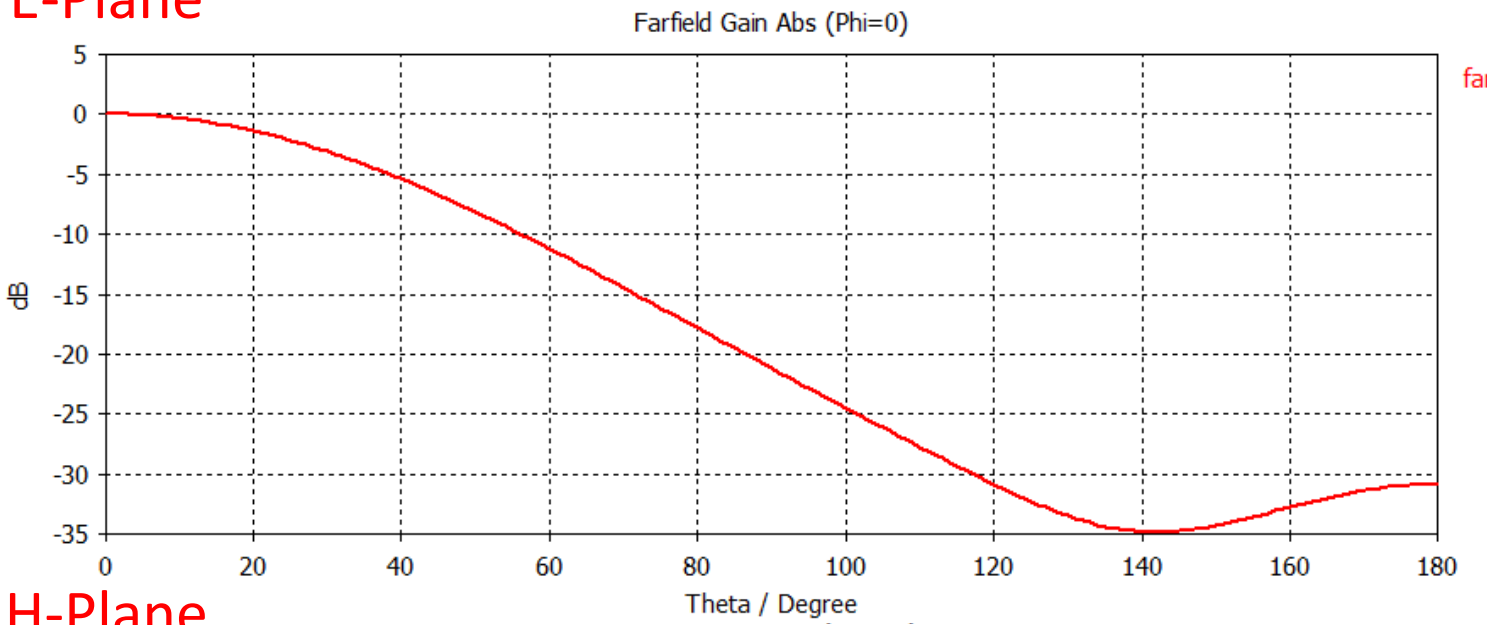
H-Plane



Frequency = 800
Main lobe magnitude = 0.0 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 75.2 deg.
Side lobe level = -24.1 dB

1150 MHz

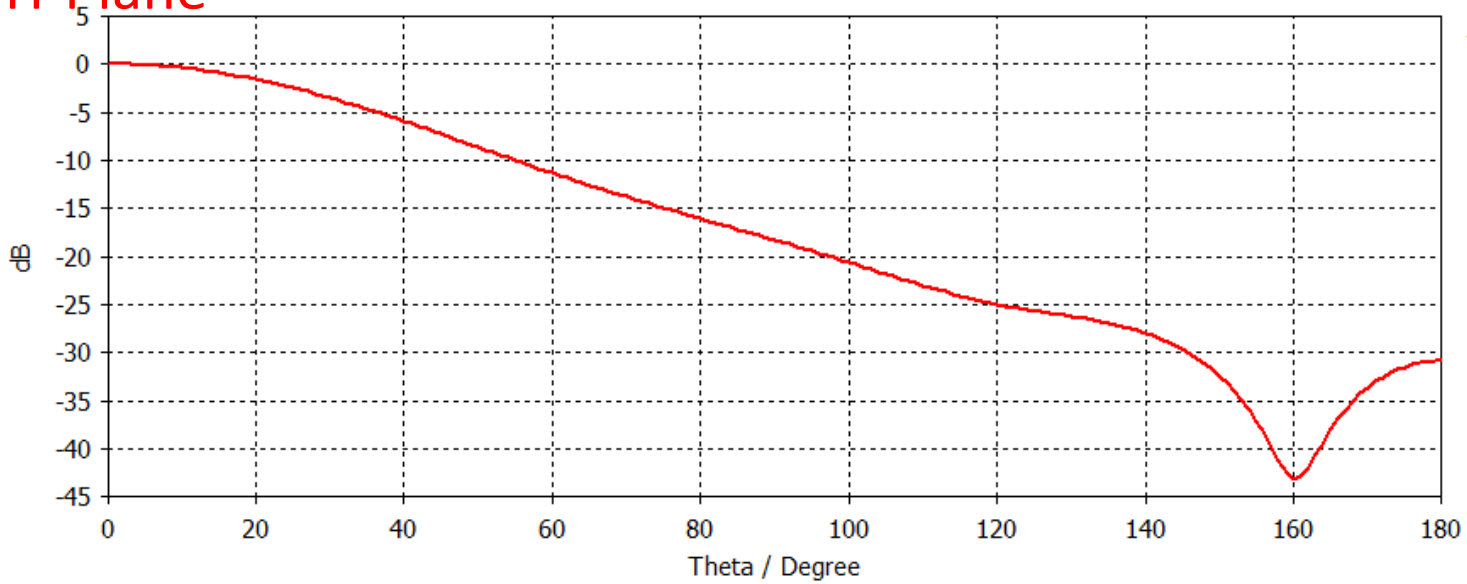
E-Plane



farfield (f=1150) [1]

Frequency = 1150
Main lobe magnitude = 0.0 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 58.4 deg.
Side lobe level = -30.8 dB

H-Plane



farfield (f=1150) [1]

Frequency = 1150
Main lobe magnitude = 0.0 dB
Main lobe direction = 0.0 deg.
Angular width (3 dB) = 55.4 deg.
Side lobe level = -30.8 dB