

Project commissioning report of T8162

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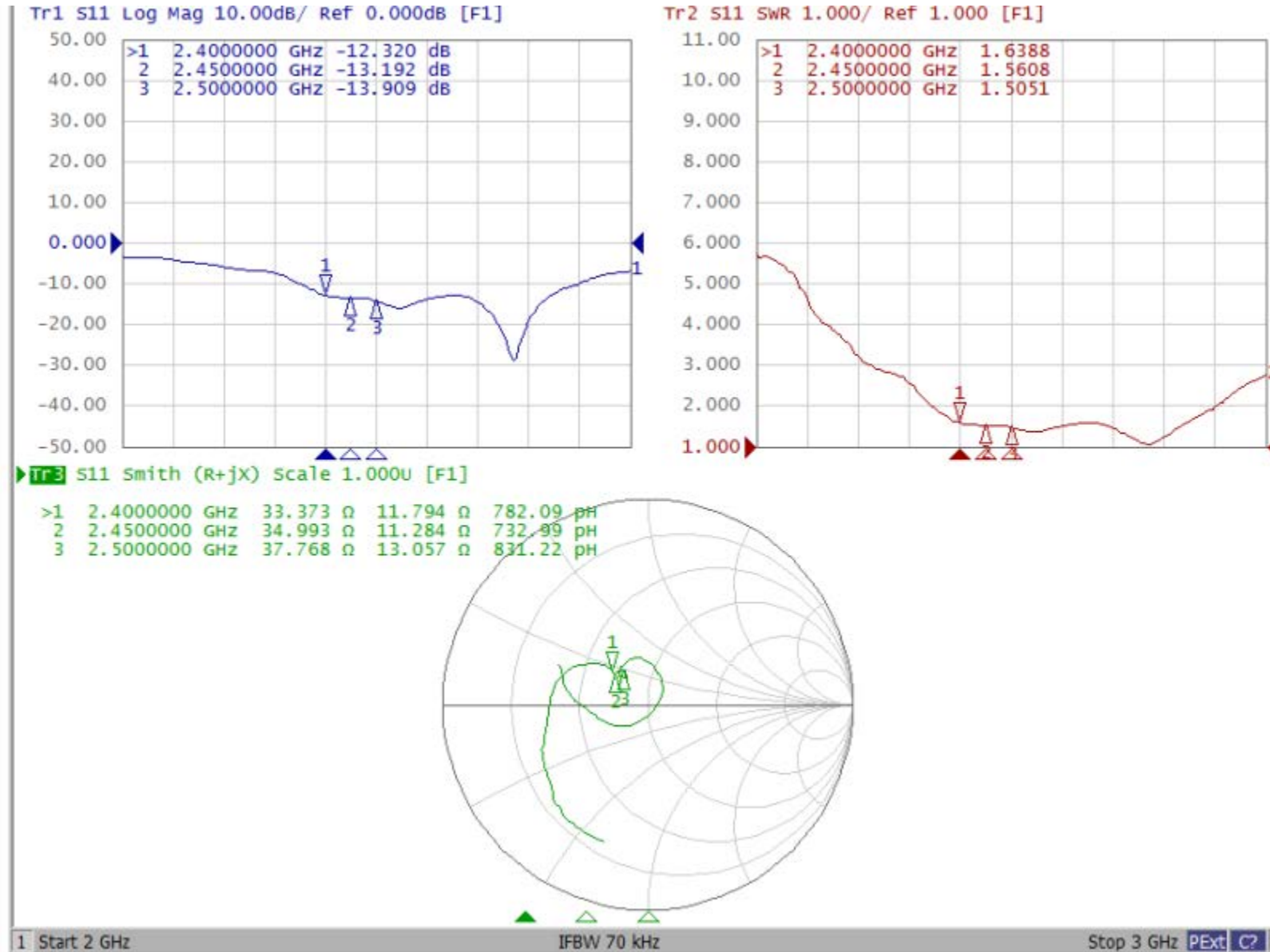
- ☐ Project requirements
- ☐ overall scheme design
- ☐ Passive test data
- ☐ Suggest summary

ZTX			
radio frequency	Wanze. Zhang	structure	Youjie. Ke
MANAGER CHECKED		vocational work	Hang. Ye
Company address	No. 34, Shilong Avenue, Shiyan Town, Baoan District, Shenzhen, (Tengda Industrial Park)		
item information			
project name	T8162	Antenna 1 Antenna 2	T8162-WIFI 1 Antenna components T8162-WIFI 2 antenna
Antenna type	FPC+Cable	Manufacturer	Anker Innovations Limited
Antenna band	2400-2500M	date	2024.07.18

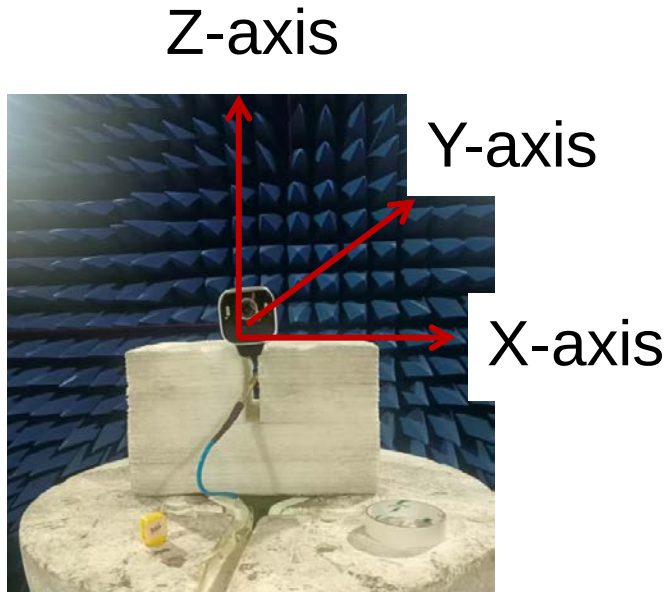
overall scheme design

Antenna shrapnel + FPC passive test

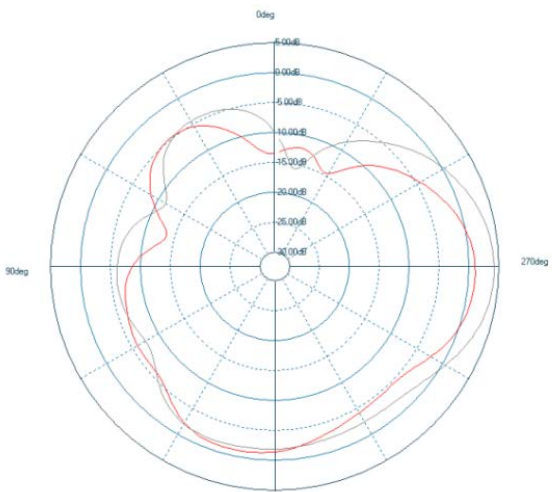
data:VSWR WIFI



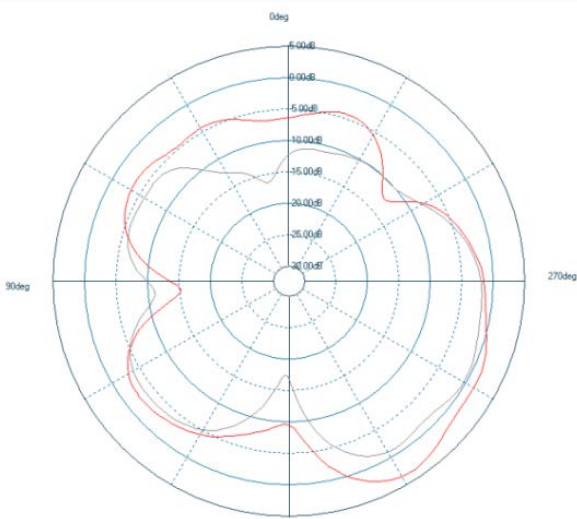
Antenna shrapnel + FPC passive test data: direction diagram WiFi 2.4G



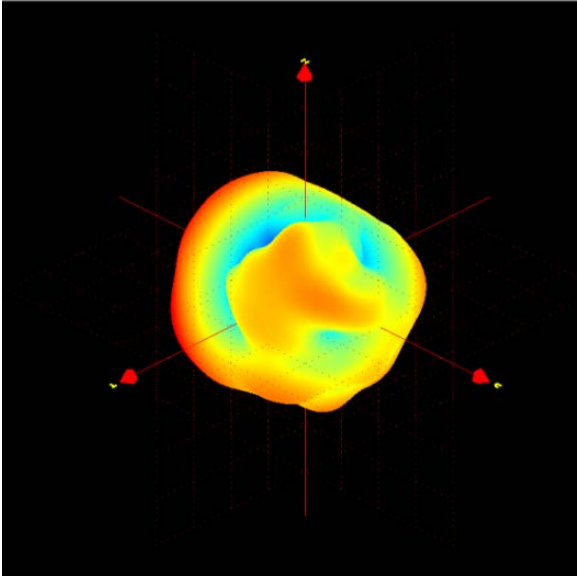
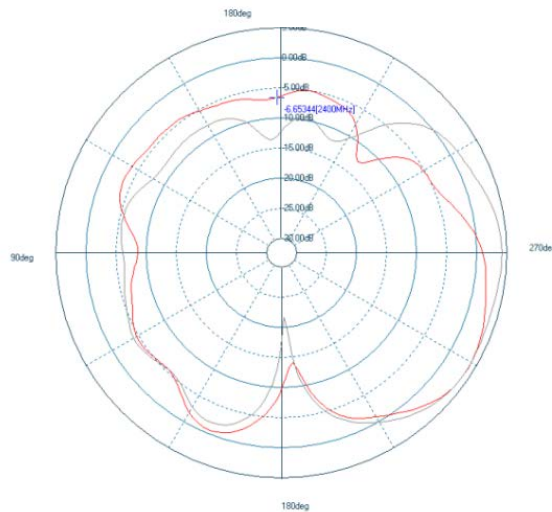
XOY



XOZ



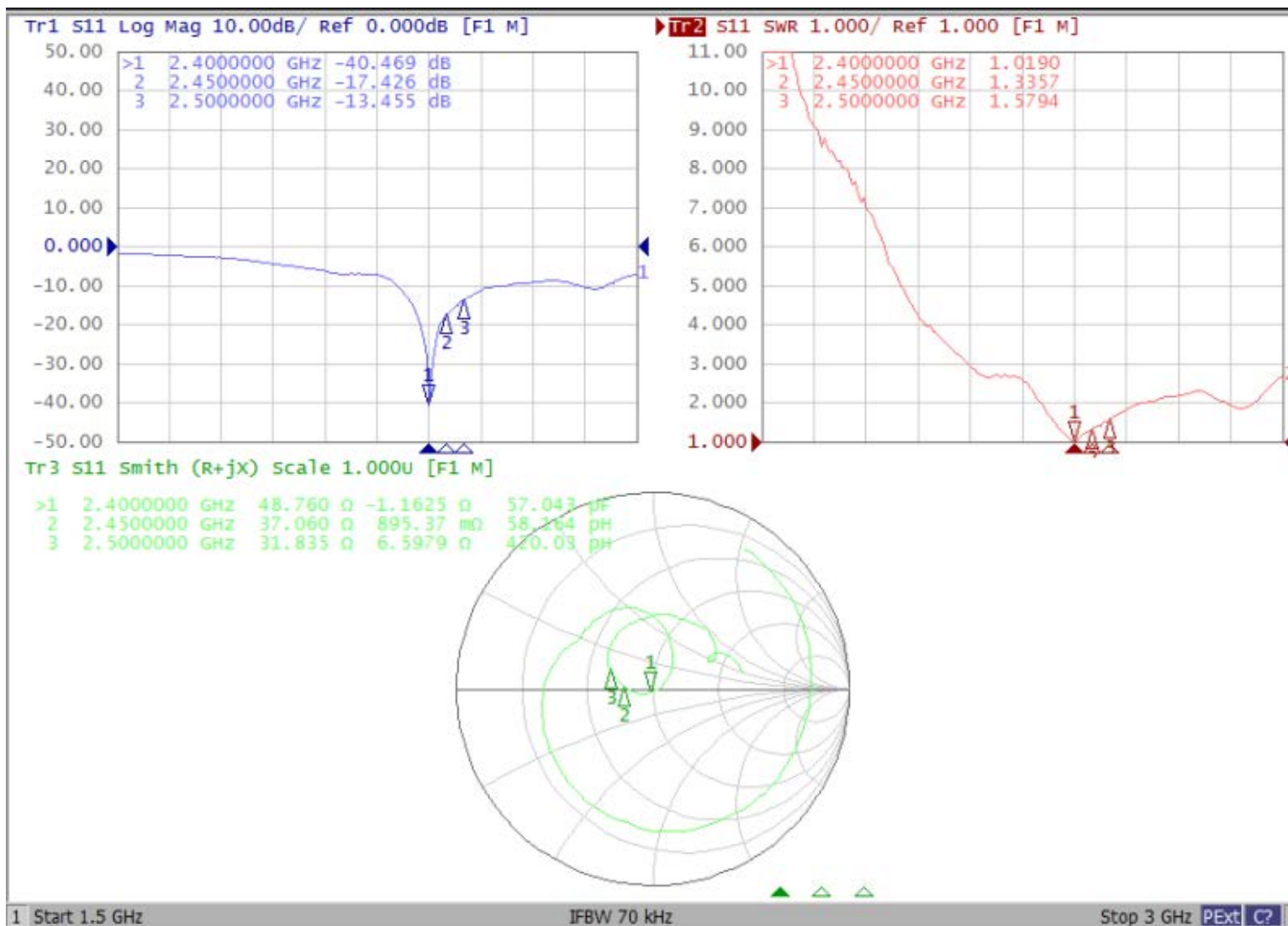
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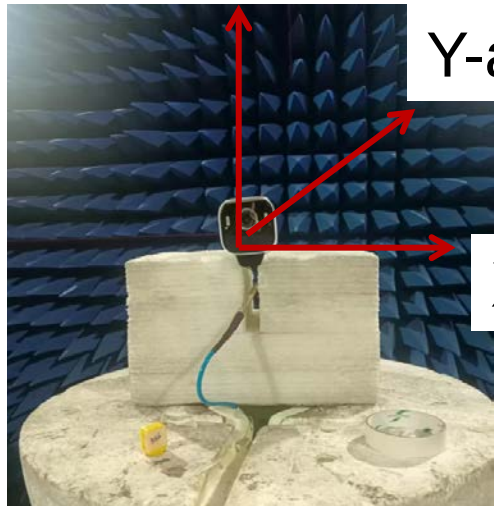
Antenna shrapnel + FPC passive test data: efficiency / gain

Frequency	Efficiency	Efficiency . dB	Gain . dB
2400	58%	-2.38	4.63
2410	59%	-2.27	4.64
2420	60%	-2.24	4.57
2430	61%	-2.16	4.42
2440	61%	-2.12	4.56
2450	61%	-2.12	4.57
2460	61%	-2.14	4.62
2470	62%	-2.06	4.71
2480	62%	-2.05	4.38
2490	61%	-2.13	4.81
2500	62%	-2.06	4.58

Antenna cable + fpc passive test data: VSWR WIFI 1



Antenna cable + fpc passive test data: direction diagram WiFi 2.4G

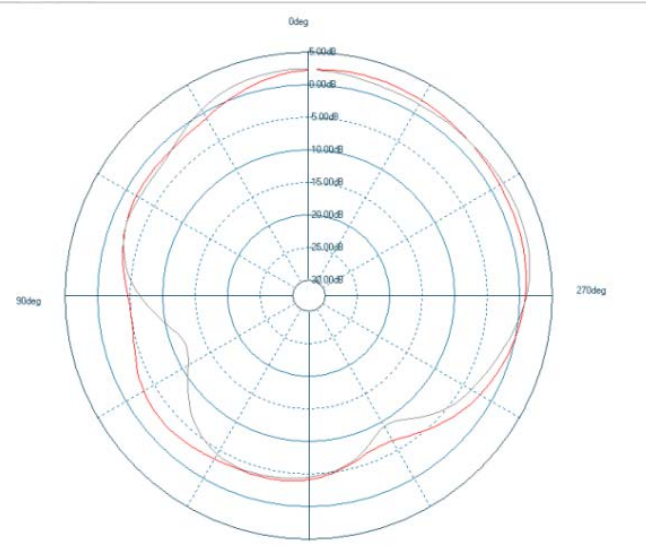


z-axis

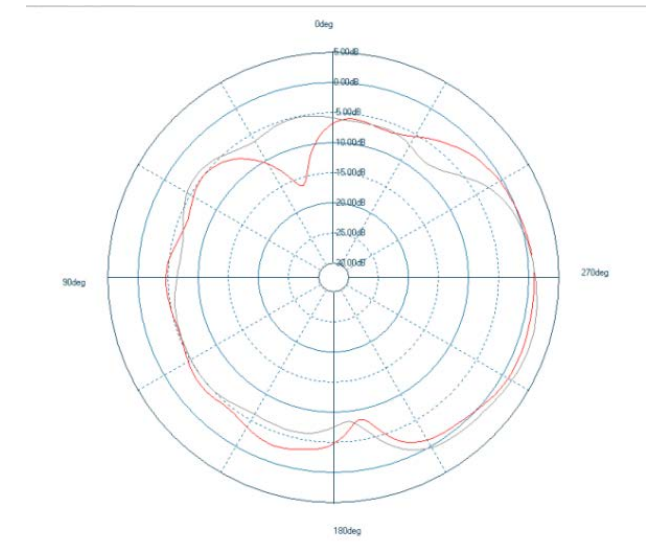
Y-axis

X-axis

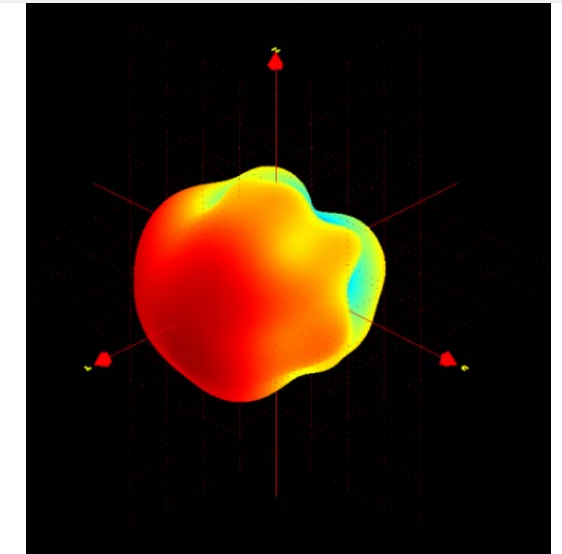
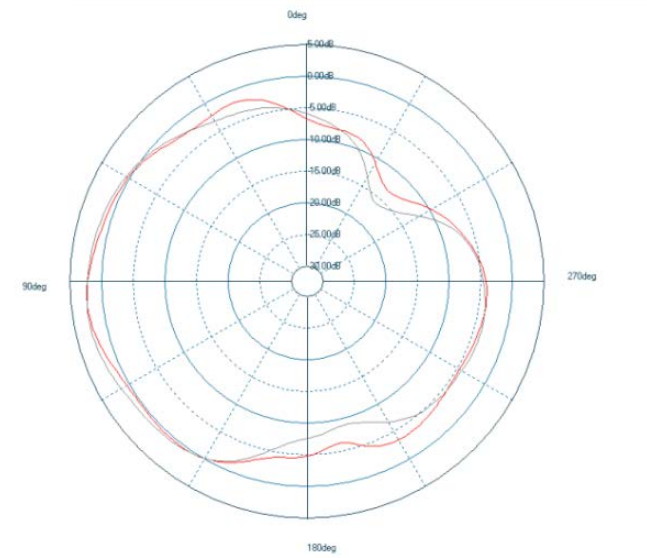
XOY



YOZ



XOZ

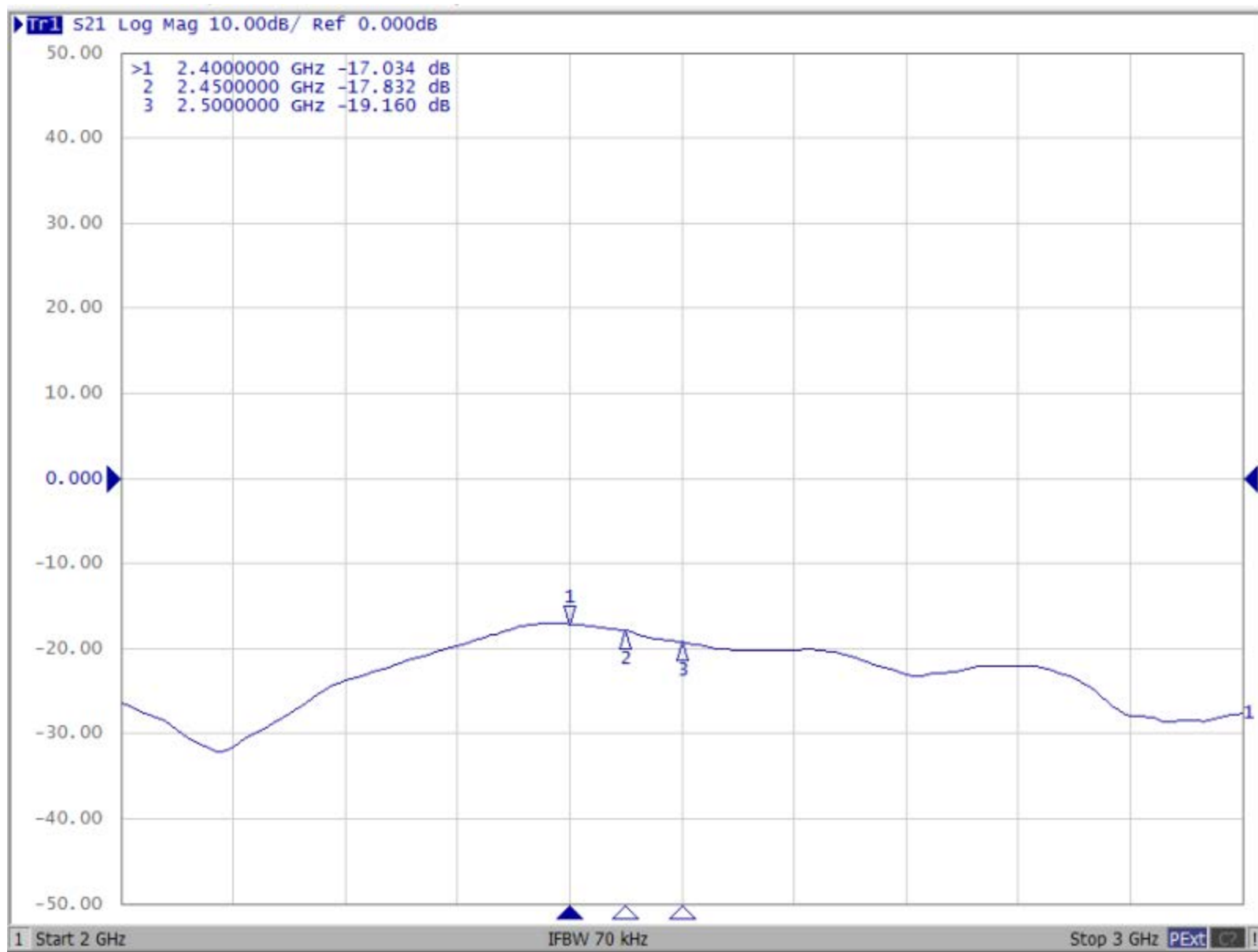


Antenna 2 passive test data: efficiency / gain



Frequency	Efficiency	Efficiency . dB	Gain . dB
2400	61.23%	-2.13	2.49
2410	61.11%	-2.14	2.55
2420	61.76%	-2.09	2.68
2430	62.07%	-2.07	2.75
2440	61.67%	-2.10	2.80
2450	61.16%	-2.14	2.95
2460	60.84%	-2.16	3.02
2470	61.67%	-2.10	3.02
2480	61.76%	-2.09	3.19
2490	61.19%	-2.13	3.27
2500	60.28%	-2.20	3.23

Isolation



Thank You

