

Shenzhen Etno communication equipment Co., LTD

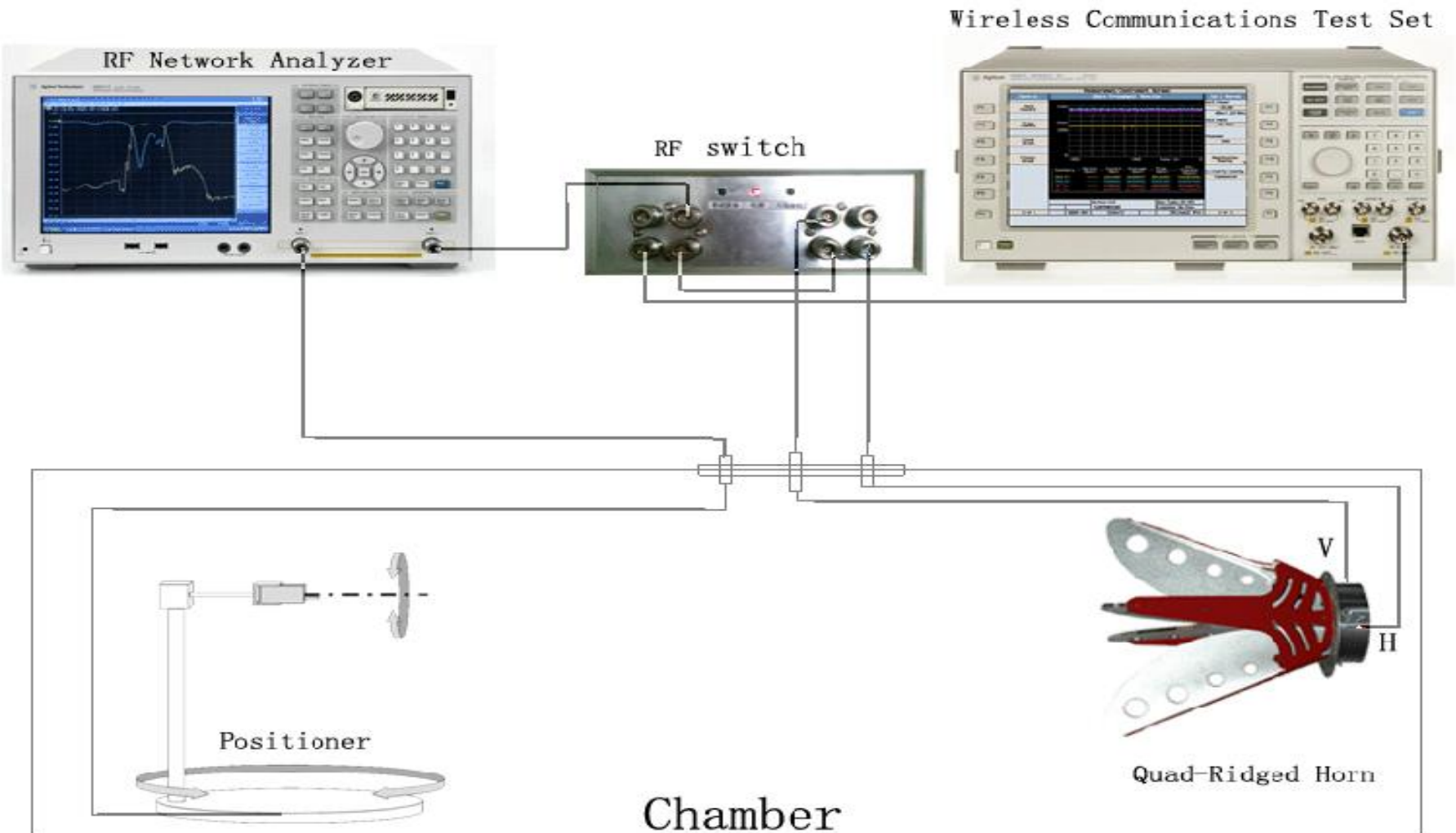
## Antenna test report

client:	Heatmoving	project :	Model D	date :	2023.8.10
frequency band	2.4G-2.48G				
Report version	V1.0				
antenna structure	onboard antenna				

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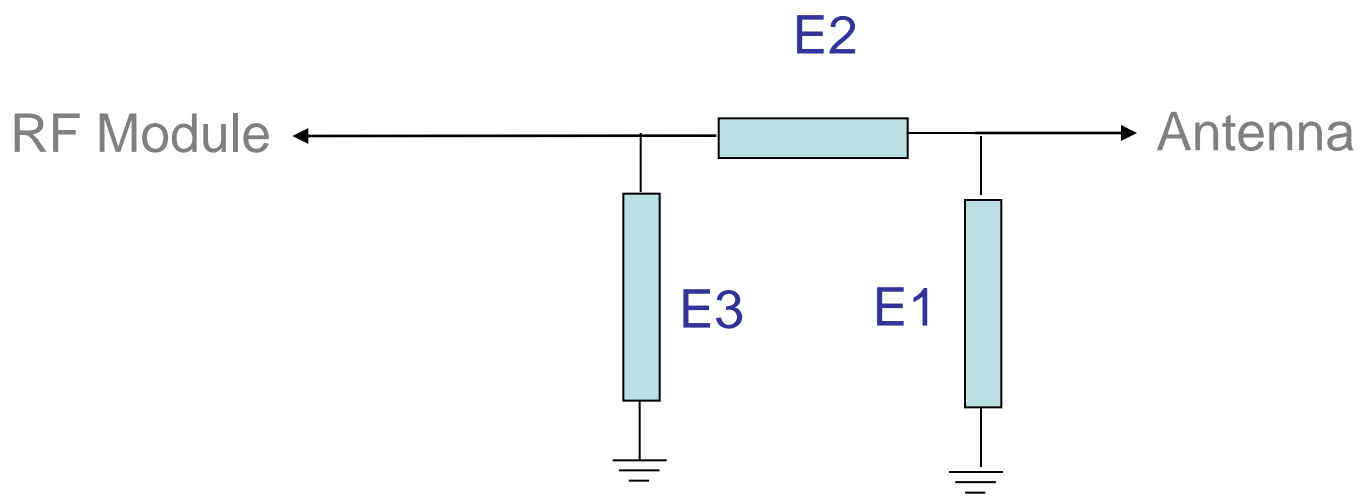
# test system



# catalogue

1. matching circuit
2. Passive test data
3. Antenna position diagram and test method

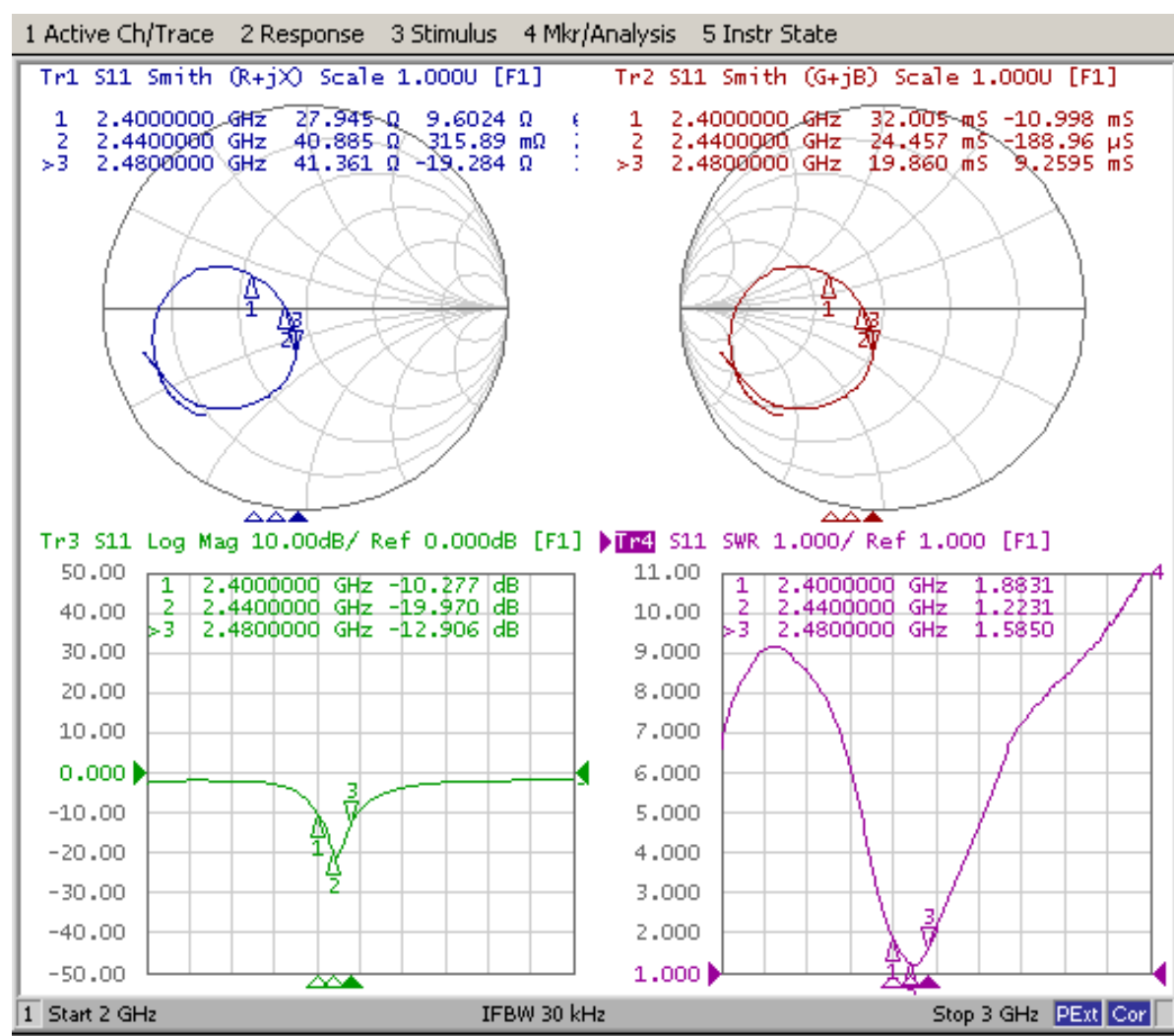
# 1. matching circuit



Element	Value
E1(0201)	NC
E2(0201)	1.5pF(GRM0335C1H1R5B02D)
E3(0201)	2.2pF(GRM0335C1H2R2B02D)

# 2、Passive test data

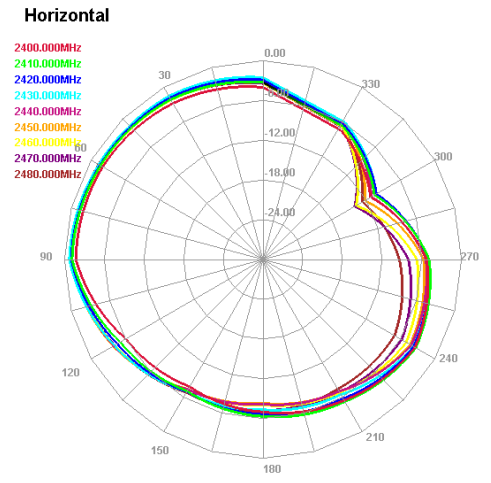
## 2.1 S11 Parameter



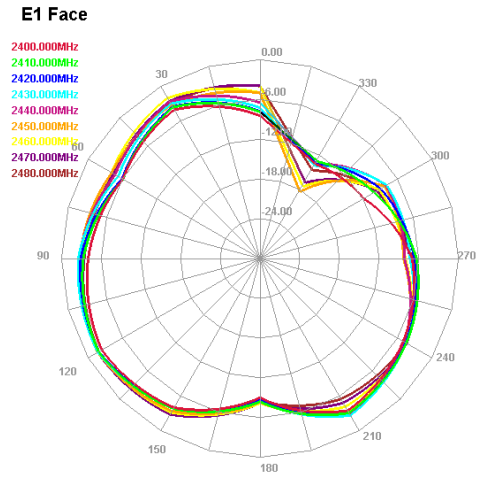
## 2.2 Gain & Efficiency

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	34.7	-4.6	-1.1
2410	38.41	-4.16	-0.72
2420	38.8	-4.11	-0.77
2430	41.3	-3.84	-0.6
2440	40.94	-3.88	-0.83
2450	42.15	-3.75	-0.75
2460	40.44	-3.93	-1.02
2470	39.59	-4.02	-1.03
2480	37.25	-4.29	-0.92

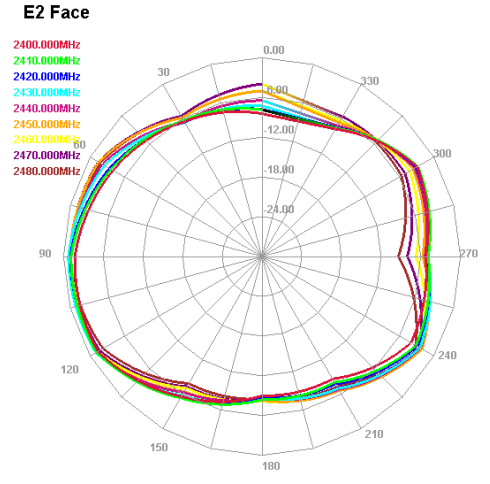
# 2.3 Radiation pattern



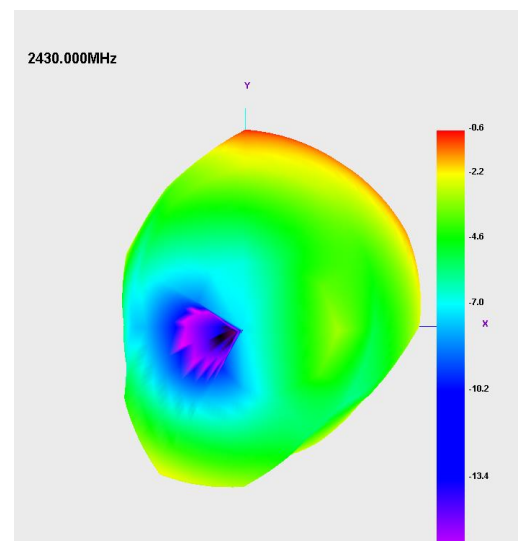
XY



XZ



YZ



### 3. Antenna position diagram and test method

