

# Antenna Test Report

## BM05 V1.0

Customer	FlectoThink
Agent	miuix
Project name	BM05
Model. IC	NRF52832
Model. ANT	WAN3216F245H08

LIU JIE 2024/01/05

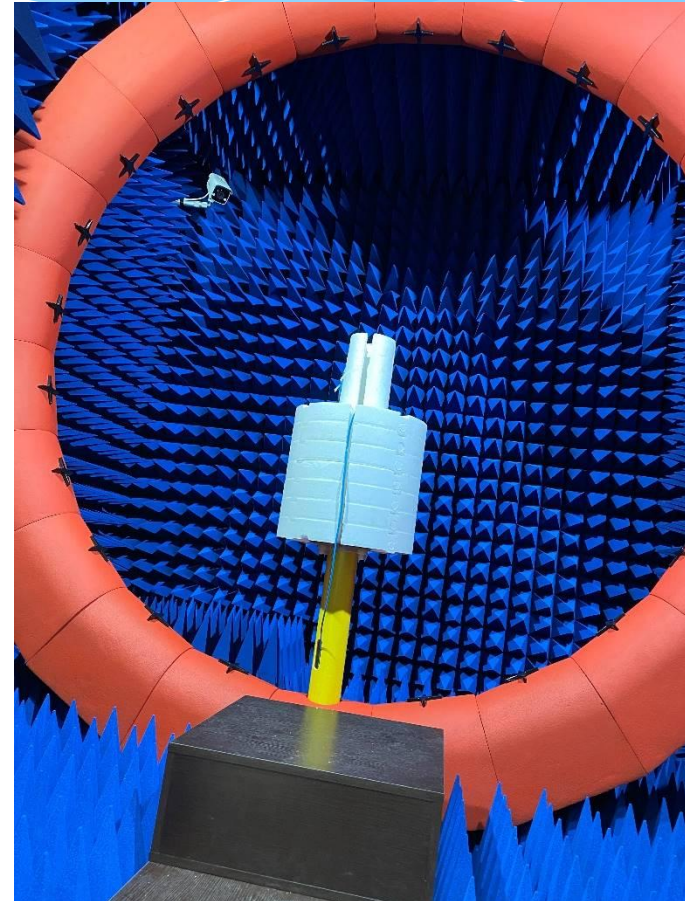
# Equipment of OTA test



Network Analyzer E5071C



R&S CMW500



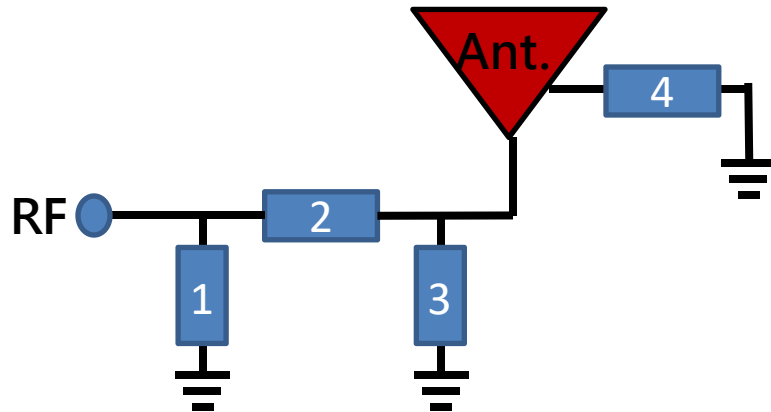
Anechoic Chamber

# Ant. Matching

- Antenna Placement

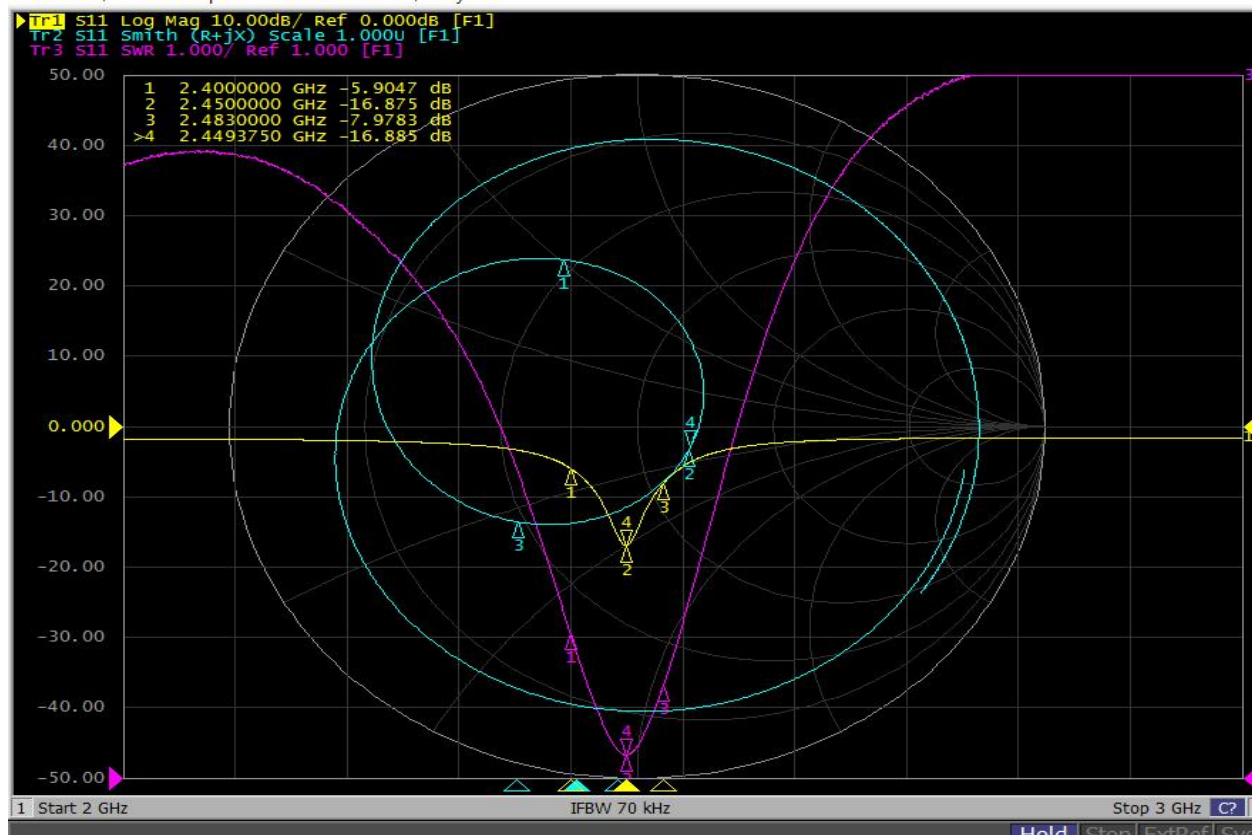


- Matching Circuit



	LC	P/N
Ant.	WAN3216F245H08	
1	NC	--
2	0 $\Omega$	--
3	3.0PF	Murata
4	2.2nH	Murata

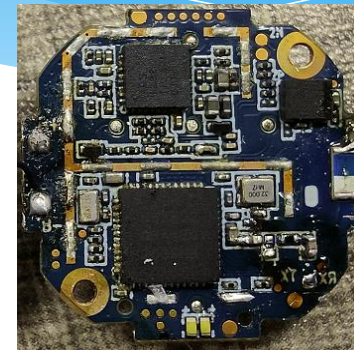
# Ant. S11 Parameter



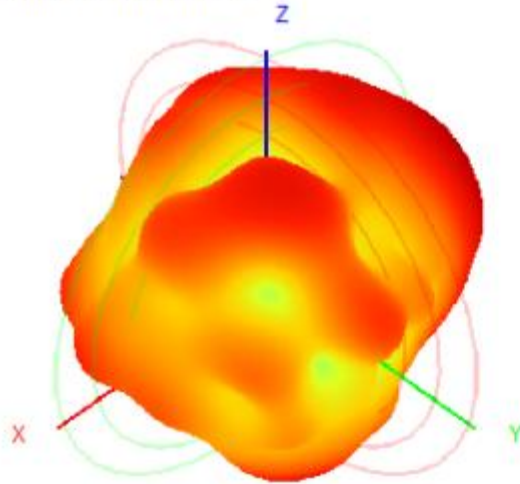
Fre.(MHz)	2400	2450	2483
S11(dB)	-5.9	-16.8	-7.9

# Ant. Gain Pattern @2.45GHz-H08

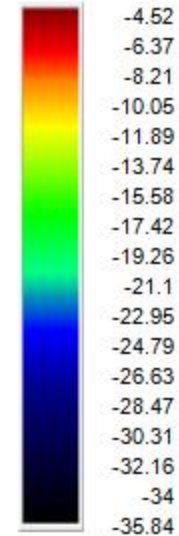
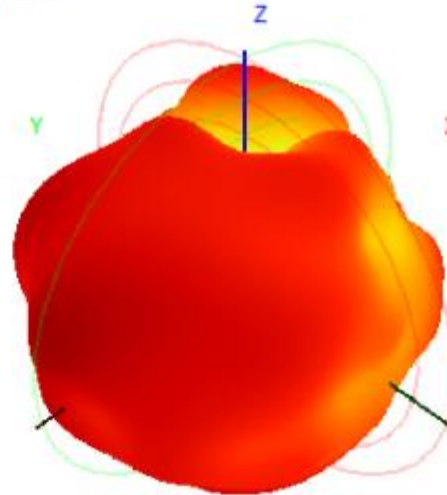
- Passive Test ( free space )



2450.0MHz H+V, Eff: 8.6%



Back View



Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	-6.04	-5.58	-5.08	-4.68	-4.49	-4.52	-4.79	-5.24	-5.75	-6.48	-7.26
Efficiency (%)	6.87	7.57	8.21	8.67	8.80	8.60	7.95	7.16	6.32	5.48	4.72