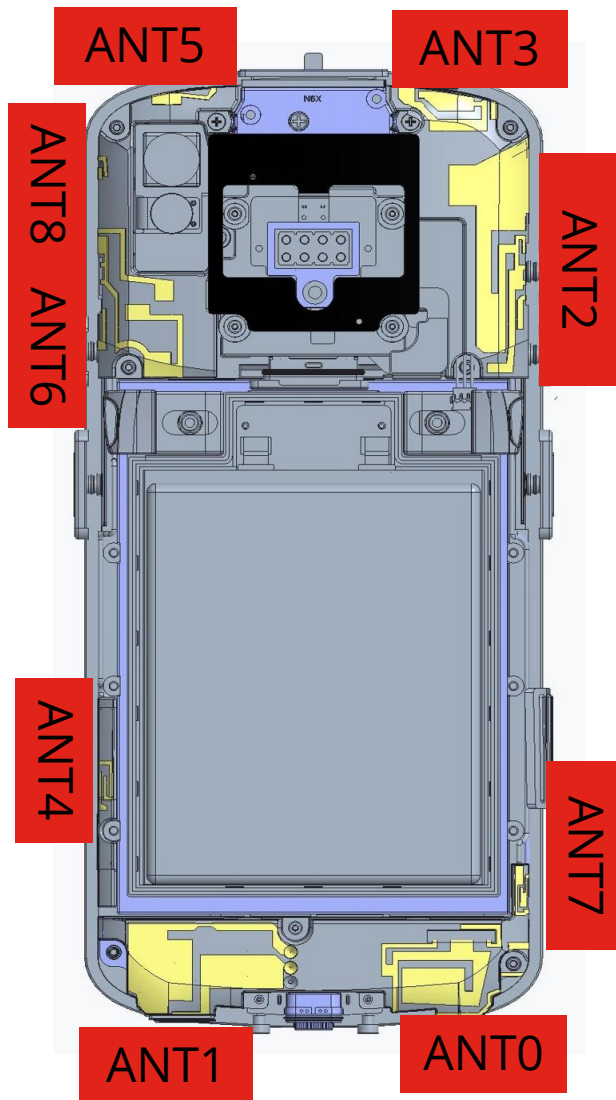




PCTE020 Ant-7 Report

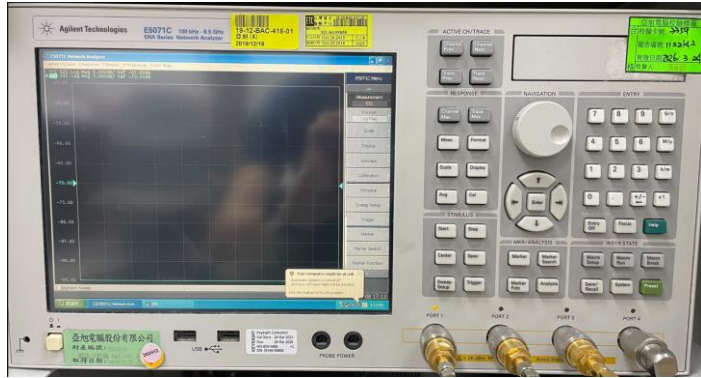
2025/06/27



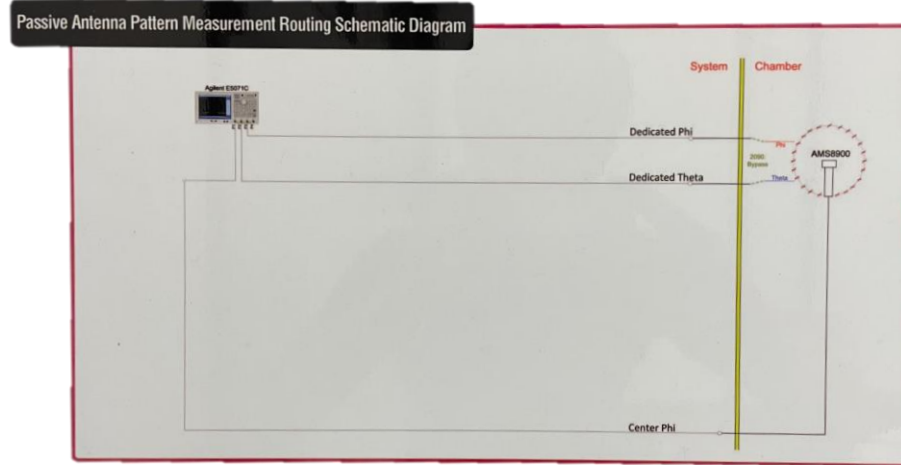


Antenna Frequency MHz								
ANTENNA	FR1					WIFI		
	LB	GNSS	MB	HB	UHB	2G Band	5G Band	6G Band
A0	617 ~ 960		1710 ~ 2200					
A1			1427 ~ 2200	2300 ~ 2690	3300 ~ 5000			
A2	617 ~ 960		1710 ~ 2200	2300 ~ 2690				
A3			1427 ~ 2200	2300 ~ 2690	3300 ~ 5000			
A4					3300 ~ 5000			
A5						2400 ~ 2500	5150 ~ 5925	~ 7125
A6		L1 L5				2400 ~ 2500		
A7					3300 ~ 5000			
A8							5150 ~ 5925	~ 7125

OTA Chamber Related configuration



Vector Analyzer
Calibrated Date :2026/03/24

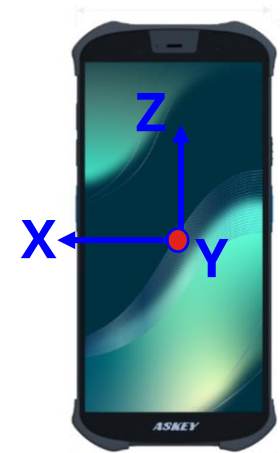
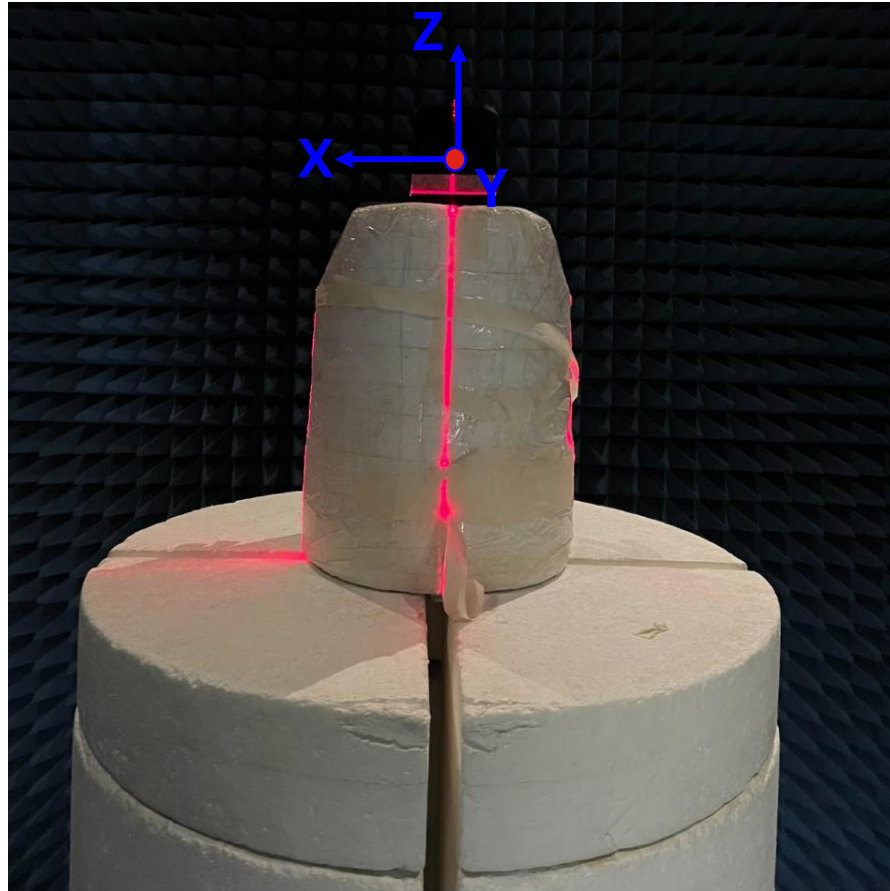


OTA Chamber Configuration °

Description of antenna testing flow_

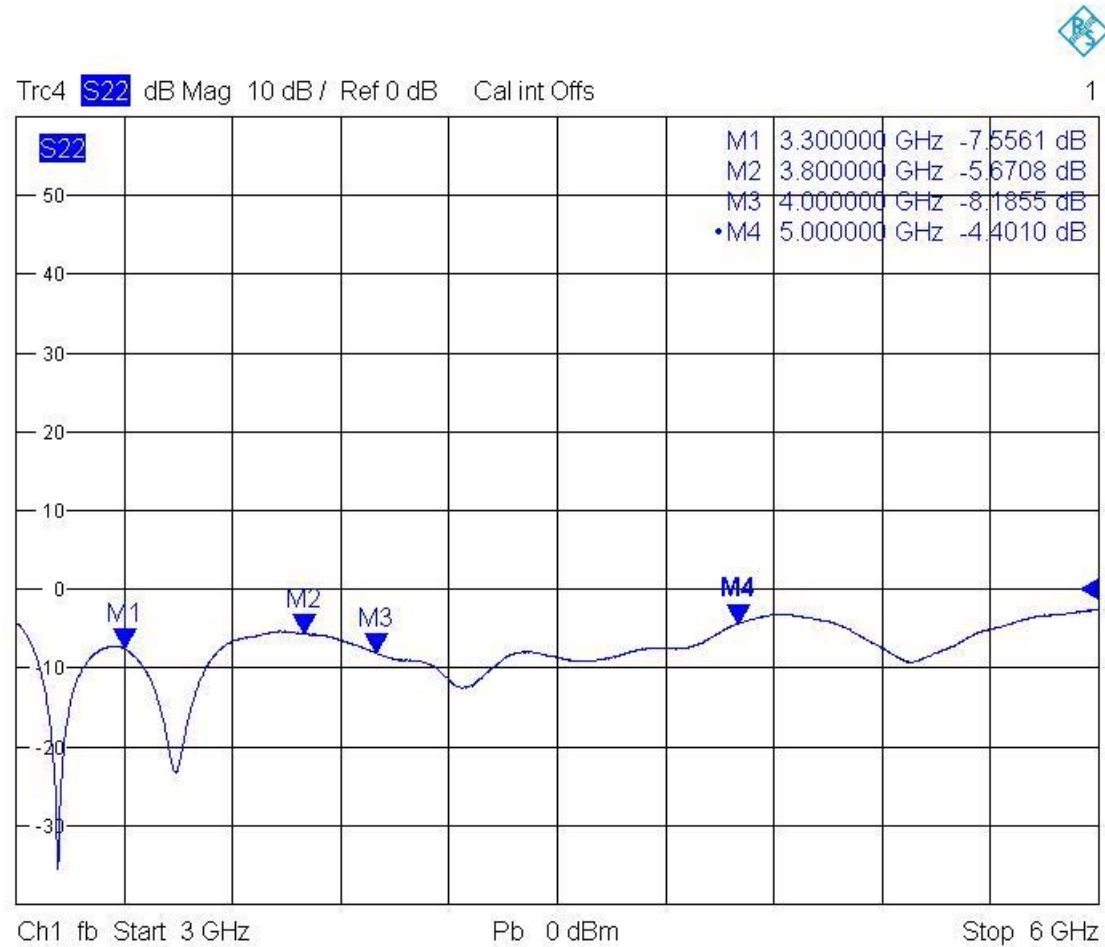
Using EST-8923 OTA Chamber to implement antenna gain report, firstly, we need setup DUT on turn table of OTA chamber, and then connect DUT's antenna indicated port to vector analyzer through coaxial cable, then run EMQUEST software setup to measure antenna 3D radiation pattern, gain, and efficiency.

DUT Setup



OTA Chamber Type : ETS-8923
Software : EMQUEST
Testing Engineer : Kevin
Testing Date : 20250305

Return Loss

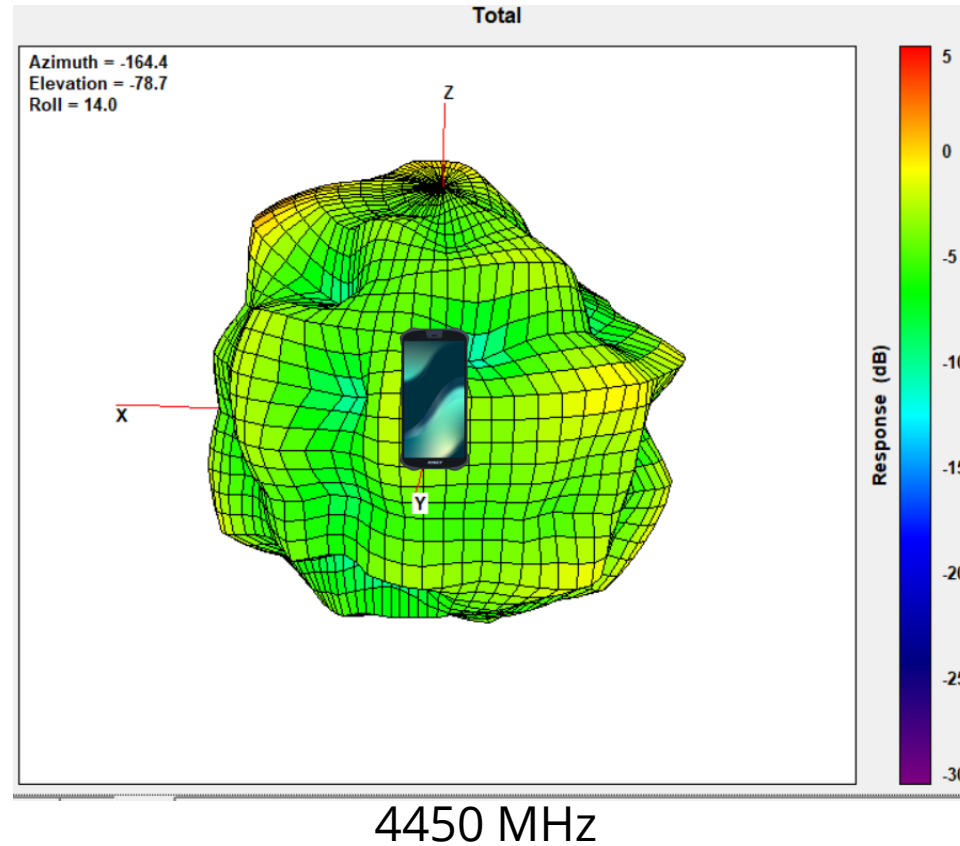


Efficiency & Peak gain

ANT7		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
3300	32.49	0.00
3350	33.61	0.25
3400	36.66	1.09
3450	39.26	1.50
3500	38.24	1.30
3550	29.97	0.37
3600	24.45	0.12
3650	25.01	1.15
3700	24.95	0.79
3750	24.36	-0.10
3800	23.93	0.31
3850	22.39	0.12
3900	27.84	1.53
3950	31.75	1.49
4000	37.57	1.64
4050	40.39	1.89
4100	39.31	3.72
4150	37.33	3.15
4200	39.92	3.61

ANT7		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
4400	36.25	4.02
4450	36.00	4.13
4500	35.50	3.84
4550	34.27	3.51
4600	30.16	2.59
4650	25.35	1.52
4700	22.19	0.75
4750	20.68	0.12
4800	19.76	0.00
4850	20.02	-0.12
4900	19.15	-0.38
4950	16.76	-0.85
5000	12.48	-2.06

Radiated Pattern at maximum gain





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