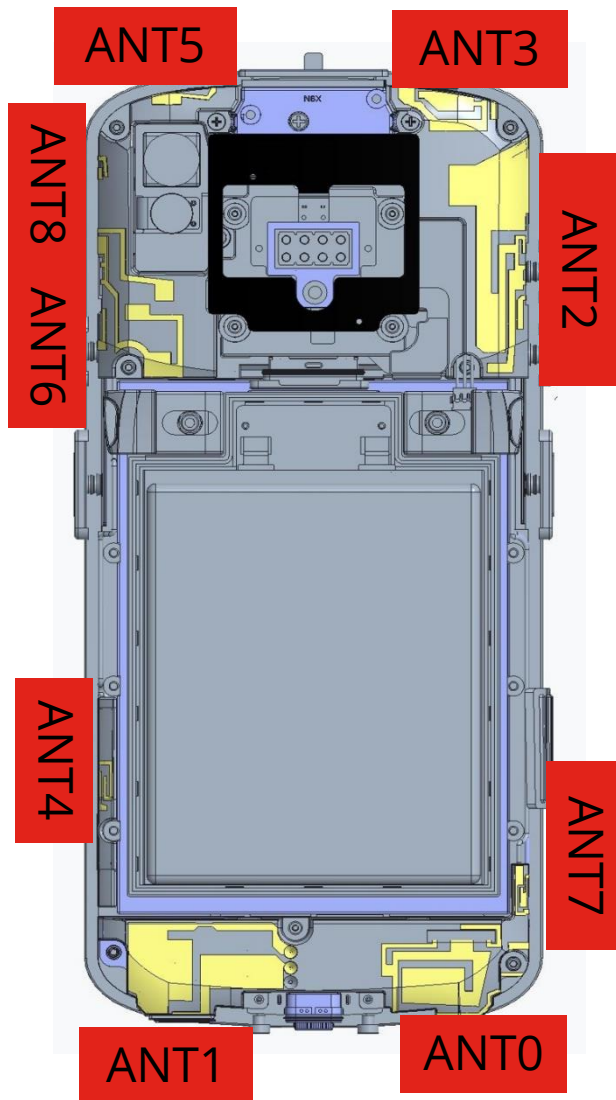




PCTE020 Ant-4 Report

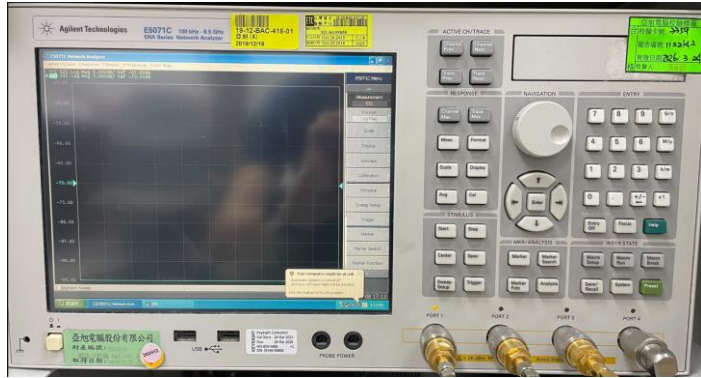
2025/06/27



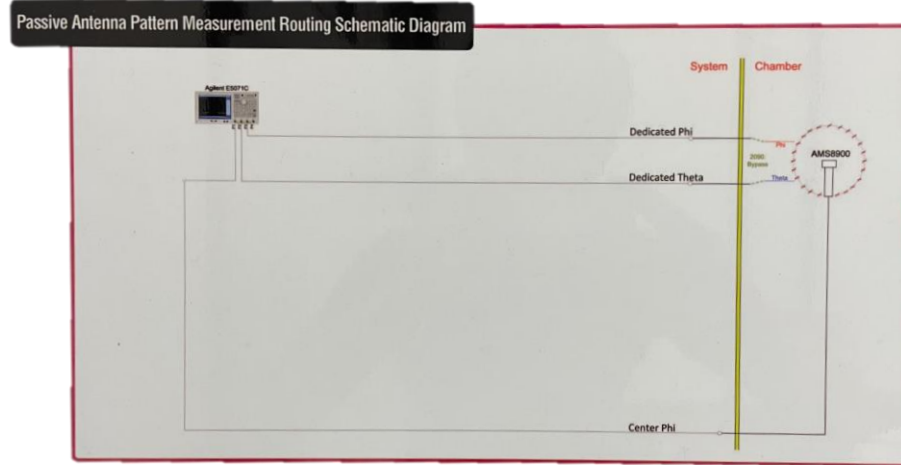


Antenna Frequency MHz								
ANTENNA	FR1					WIFI		
	LB	GNSS	MB	HB	UHB	2G Band	5G Band	6G Band
A0	617 ~960		1710 ~ 2200					
A1			1427 ~ 2200	2300 ~ 2690	3300 ~ 5000			
A2	617 ~960		1710 ~ 2200	2300 ~ 2690				
A3			1427 ~ 2200	2300 ~ 2690	3300 ~ 5000			
A4					3300 ~ 5000			
A5						2400 ~ 2500	5150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

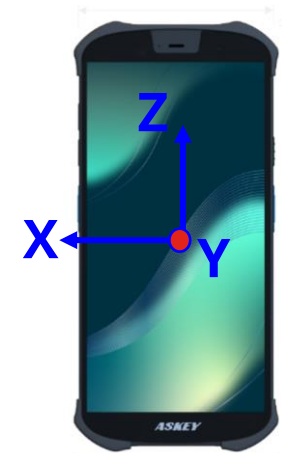
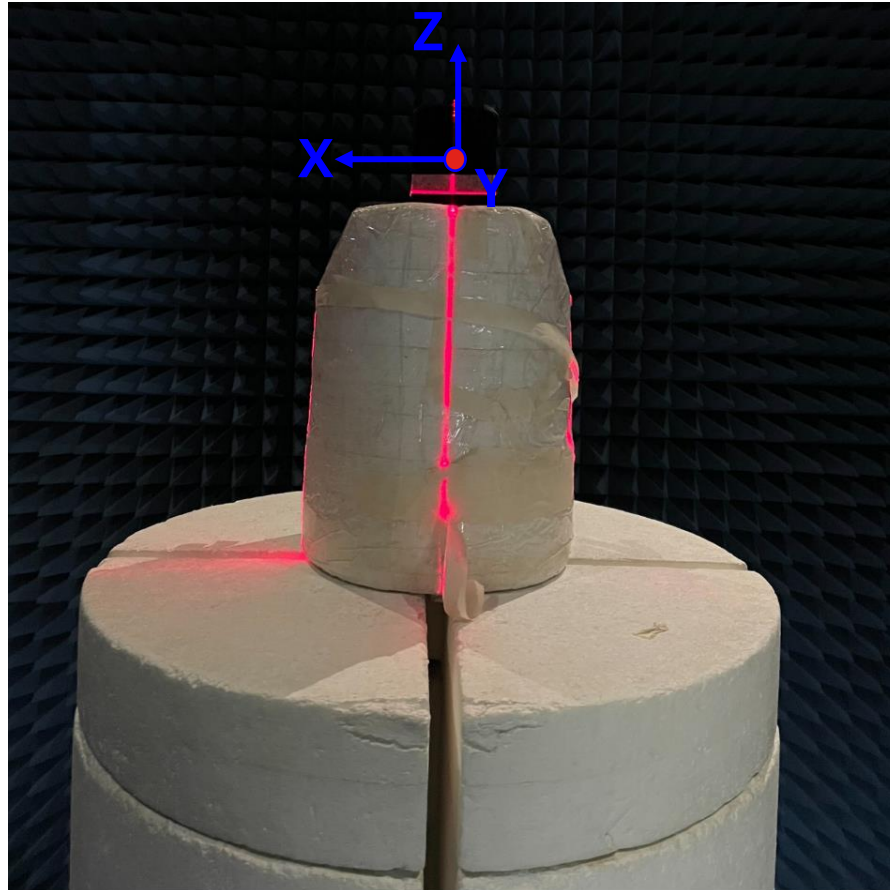


OTA Chamber Configuration °

Description of antenna testing flow_

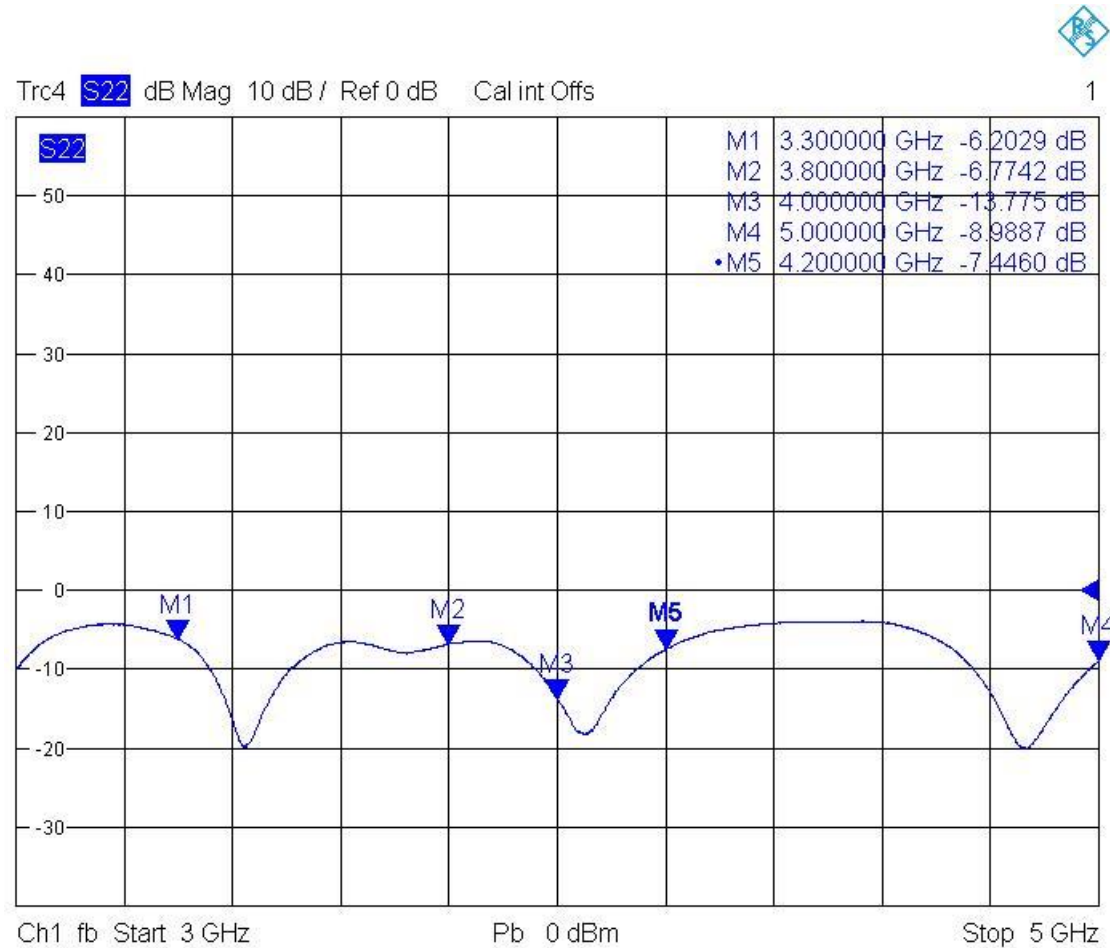
Using EST-8923 OTA Chamber to implement antenna gain report, firstly, we need setup DUT on turn table of OTA chamber, and then connect DUT's antenna indicated port to vector analyzer through coaxial cable, then run EMQUEST software setup to measure antenna 3D radiation pattern, gain, and efficiency.

DUT Setup



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

Return Loss

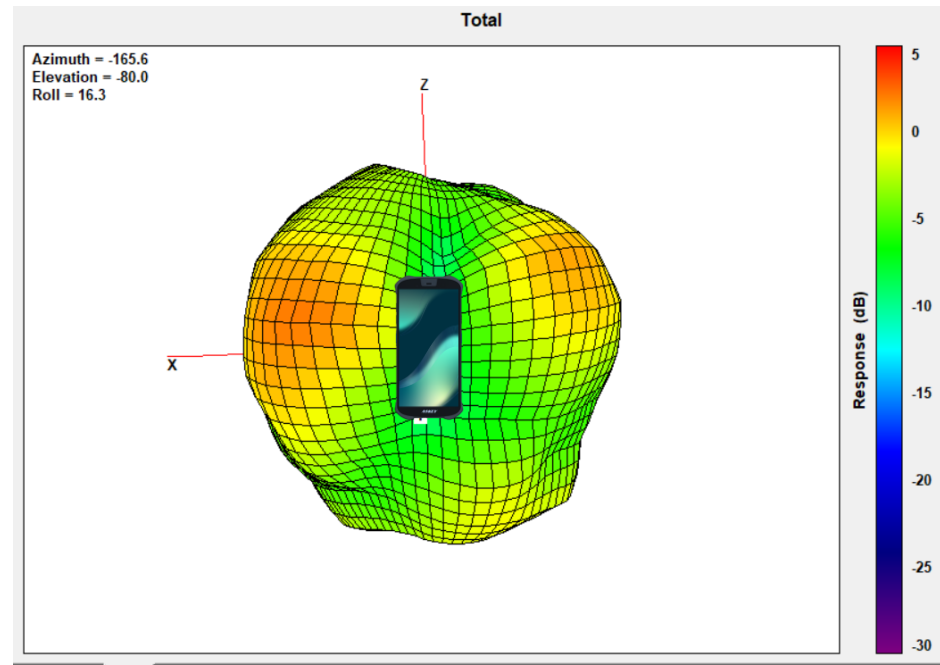


Efficiency & Peak gain

ANT4		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
3300	34.76	1.10
3350	38.08	1.75
3400	44.13	1.11
3450	48.95	0.85
3500	49.15	0.93
3550	41.19	0.80
3600	33.78	0.98
3650	35.20	0.94
3700	38.54	0.91
3750	37.03	0.84
3800	32.54	0.91
3850	28.37	0.89
3900	33.92	0.80
3950	37.06	0.84
4000	41.10	0.94
4050	41.90	2.50
4100	38.72	2.58
4150	33.54	1.96

ANT4		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
4400	17.21	0.23
4450	17.57	0.57
4500	18.53	0.47
4550	19.41	0.36
4600	21.03	0.84
4650	22.88	0.97
4700	25.63	1.15
4750	27.06	1.35
4800	24.96	1.66
4850	21.37	1.36
4900	18.41	0.63
4950	17.22	-0.06
5000	14.84	-0.72

Radiated Pattern at maximum gain



4100 MHz



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