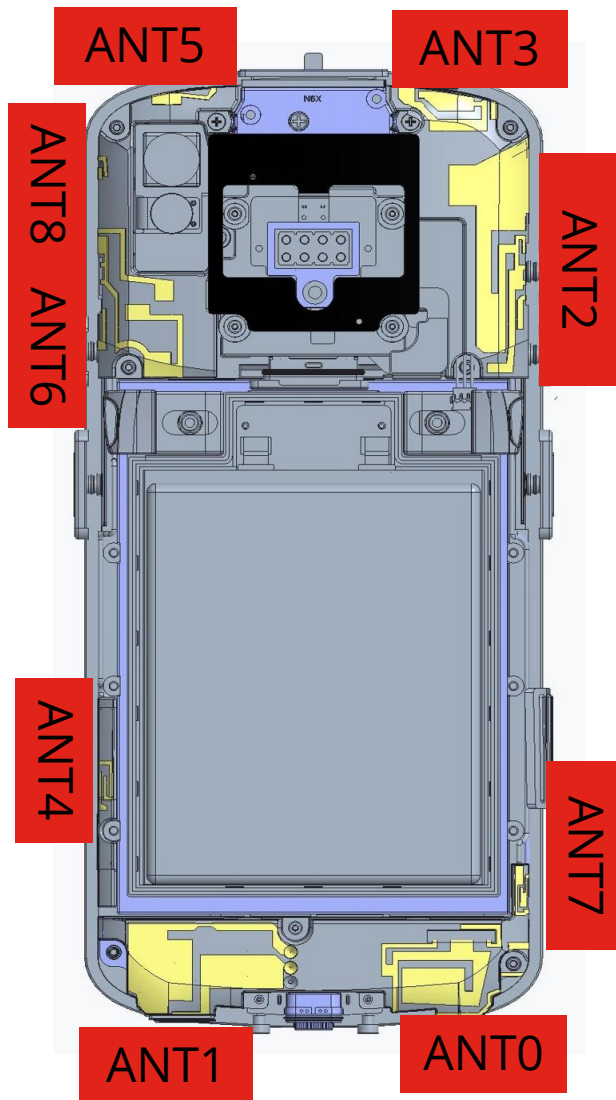




PCTE020 Ant-3 Report

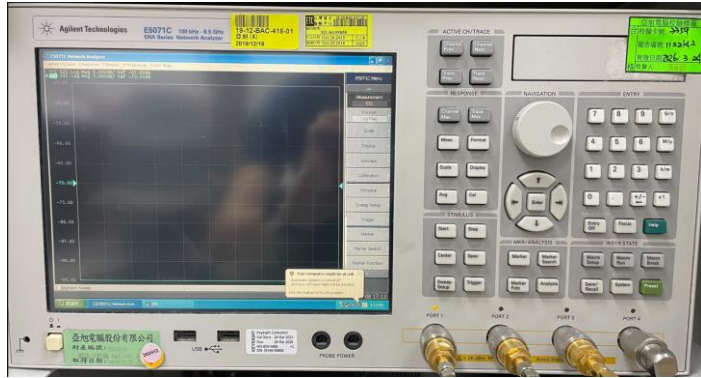
2025/06/27



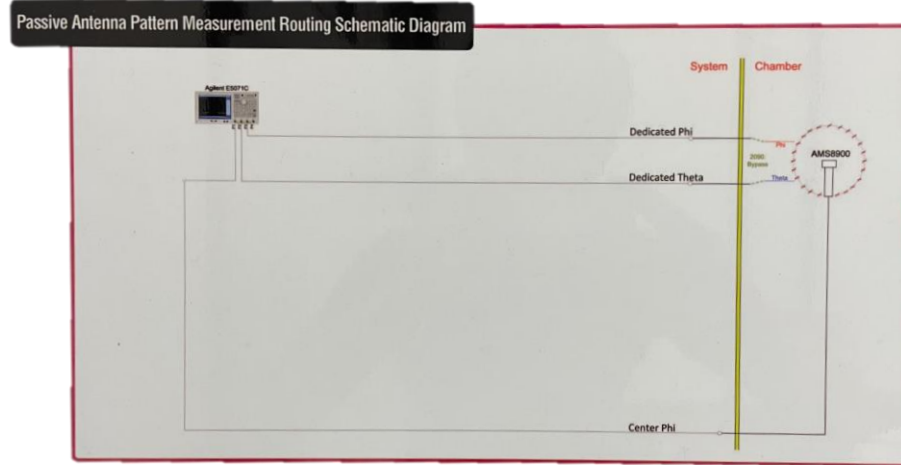


Antenna Frequency MHz								
ANTENNA	FR1					WIFI		
	LB	GNSS	MB	HB	UHB	2G Band	5G Band	6G Band
A0	617 ~960		1710 ~ 2200					
A1			1427 ~ 2200	2300 ~ 2690	3300 ~ 5000			
A2	617 ~960		1710 ~ 2200	2300 ~ 2690				
A3			1427 ~ 2200	2300 ~ 2690	3300 ~ 5000			
A4					3300 ~ 5000			
A5						2400 ~ 2500	5150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

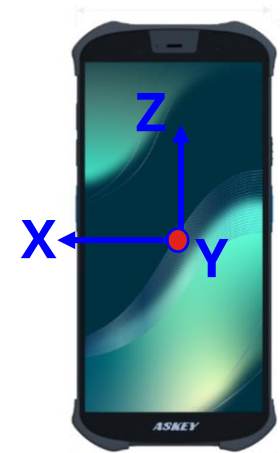
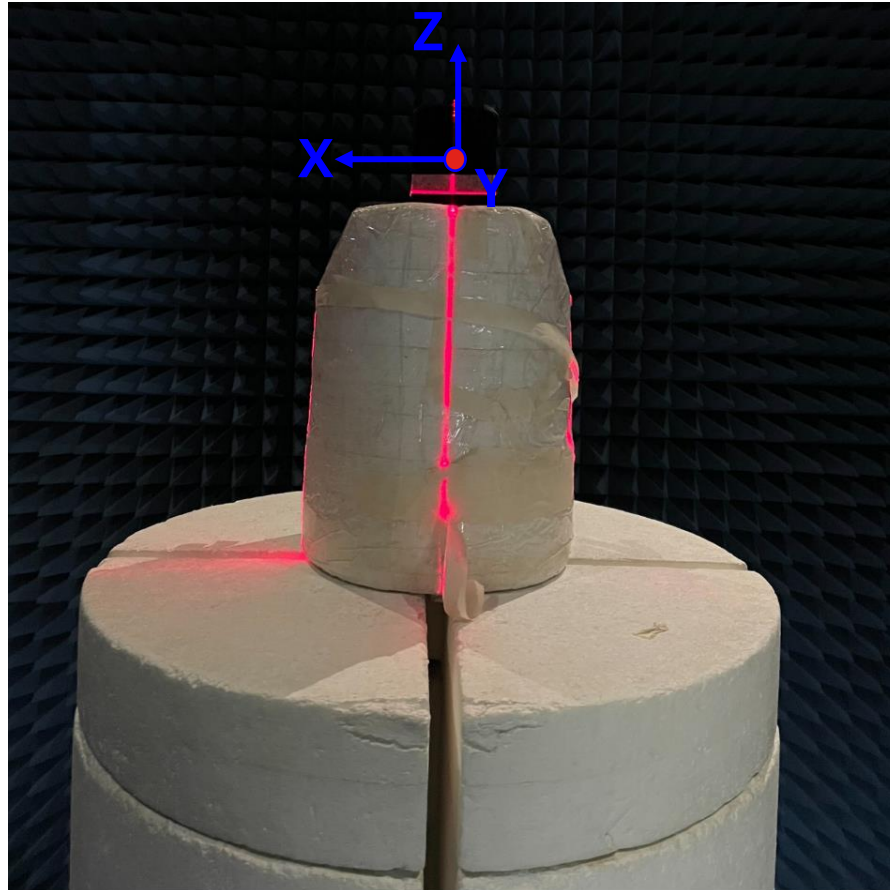


OTA Chamber Configuration °

Description of antenna testing flow_

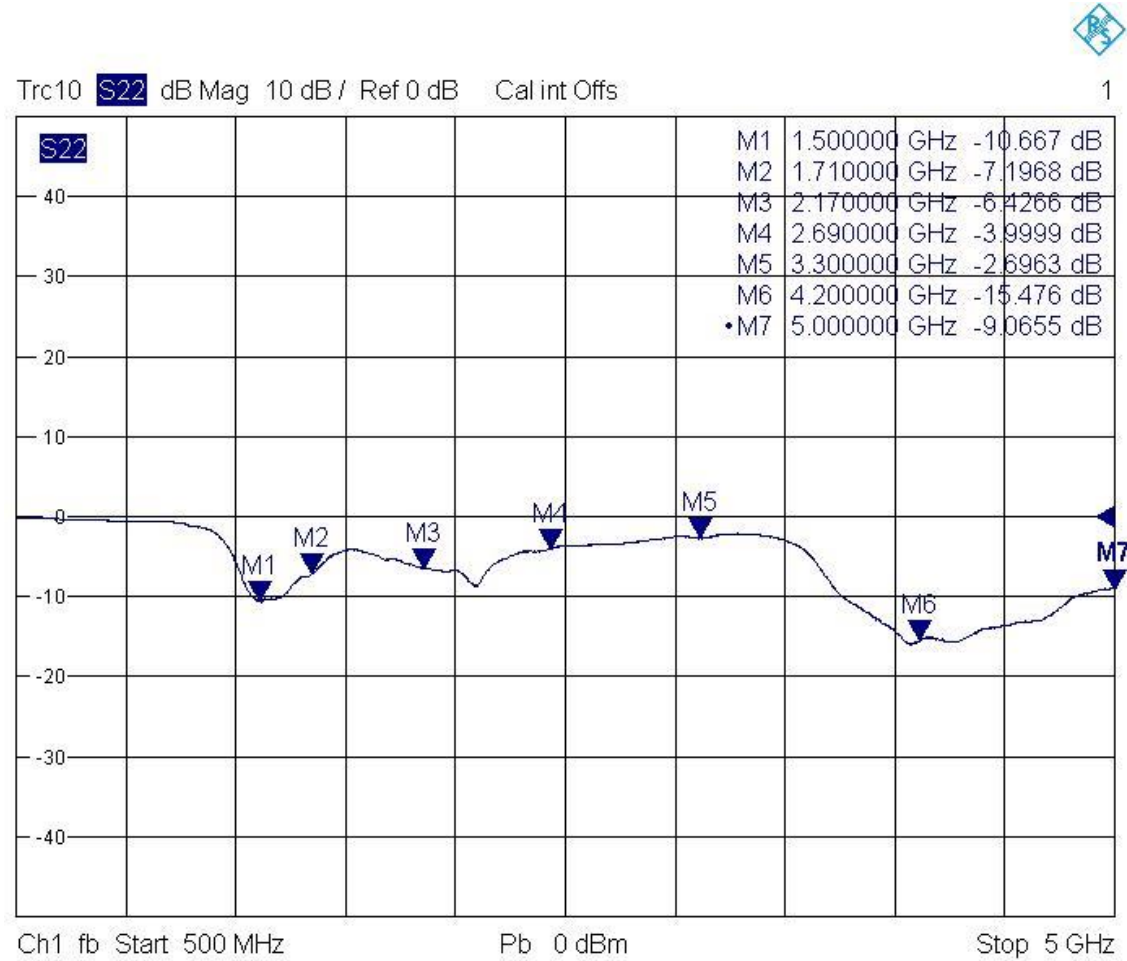
Using EST-8923 OTA Chamber to implement antenna gain report, firstly, we need setup DUT on turn table of OTA chamber, and then connect DUT's antenna indicated port to vector analyzer through coaxial cable, then run EMQUEST software setup to measure antenna 3D radiation pattern, gain, and efficiency.

DUT Setup



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

Return Loss



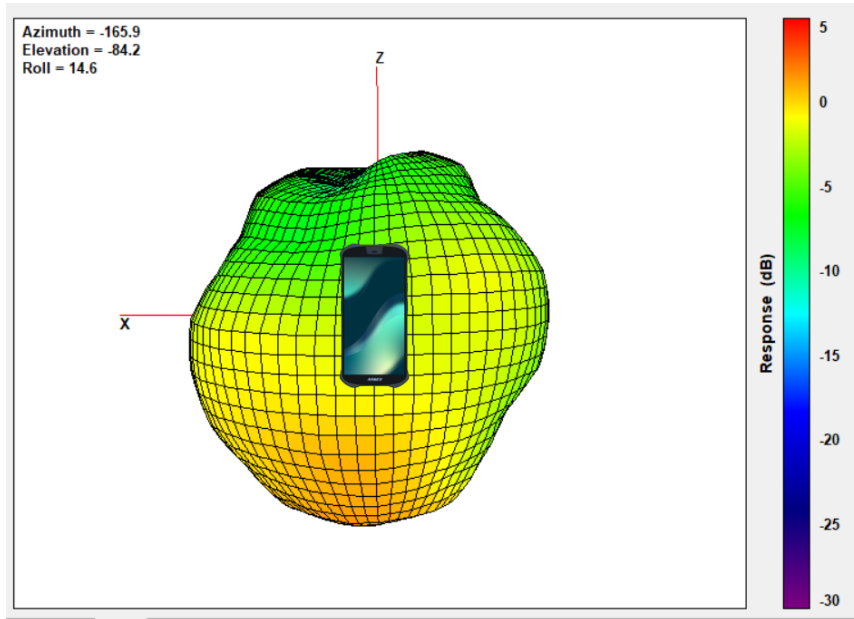
Efficiency & Peak gain

ANT3		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
1427	22.98	0.44
1500	30.94	2.50
1710	31.56	2.13
1730	27.78	1.98
1750	23.46	1.41
1755	22.80	1.24
1770	22.83	1.38
1785	23.83	1.54
1805	23.40	1.50
1840	19.96	0.10
1850	19.38	-0.44
1880	18.07	-0.60
1900	16.25	-0.68
1910	16.82	-0.19
1920	17.94	0.16
1930	18.33	0.26
1950	17.42	-0.26
1960	17.11	-0.16
1980	16.67	-0.40
1990	16.35	-0.69
2010	16.88	-0.77
2018	16.96	-0.82
2025	17.05	-0.70
2110	19.93	-1.56
2140	22.43	-0.69
2155	25.30	0.33

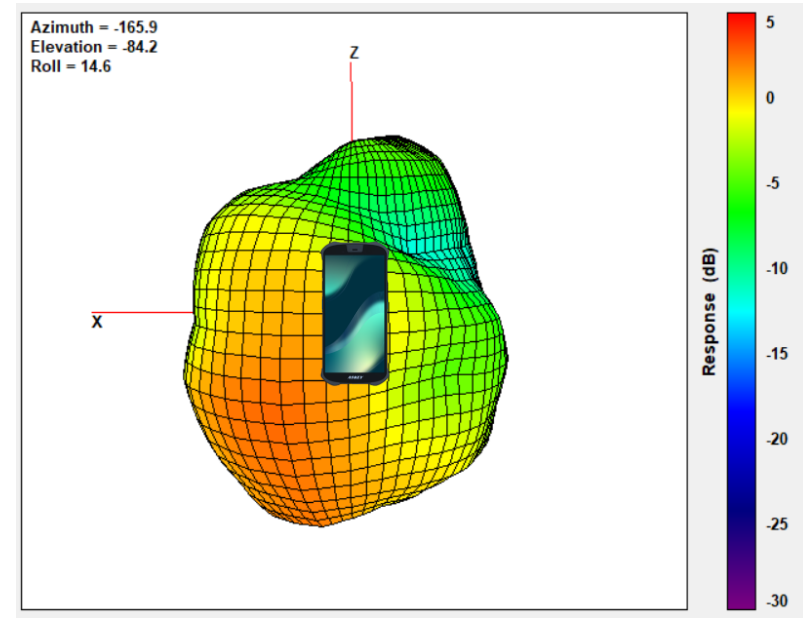
ANT3		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
2170	25.29	0.77
2200	26.23	1.12
2300	32.87	1.23
2350	41.75	2.26
2400	43.41	3.13
2500	40.83	3.60
2515	44.59	3.71
2535	43.40	3.40
2555	40.23	3.50
2570	39.74	3.74
2595	38.19	3.97
2620	36.54	3.78
2630	38.94	4.02
2655	34.95	3.28
2680	30.45	2.10
2690	29.62	1.73
3300	21.60	0.00
3350	16.88	-1.13
3400	12.62	-3.54
3450	11.67	-4.00
3500	11.33	-3.67
3550	9.75	-4.29
3600	10.04	-4.12

ANT3		
Frequency (MHz)	Efficiency (%)	Gain (dBi)
3650	13.20	-2.53
3700	19.30	0.71
3750	28.02	2.97
3800	34.95	4.21
3850	37.82	4.68
3900	47.73	5.41
3950	49.20	5.09
4000	50.40	4.60
4050	49.42	4.15
4100	48.19	4.00
4150	48.04	4.06
4200	50.64	3.68
4400	48.47	2.34
4450	46.99	2.20
4500	47.77	2.58
4550	46.85	2.51
4600	46.05	2.28
4650	44.49	2.37
4700	43.06	2.45
4750	41.63	1.90
4800	41.53	1.81
4850	42.66	1.78
4900	44.42	1.90
4950	45.62	2.06
5000	41.13	1.49

Radiated Pattern at maximum gain



2400 MHz



3900 MHz



Manufacturing Experiences.

Since 1989.