

TB643DW7S Antenna report V2

2025/3/21

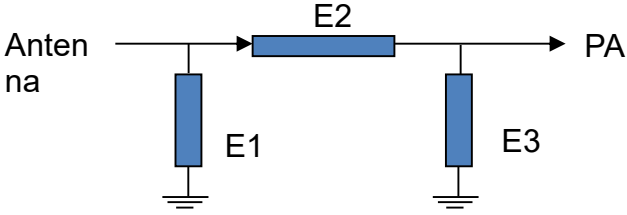
Objectives :
Conclusions :

Antenna testing

Antenna	Band	Material	Remark
5G-2	5150-5850MHz	FPC+160MM coaxial cable	

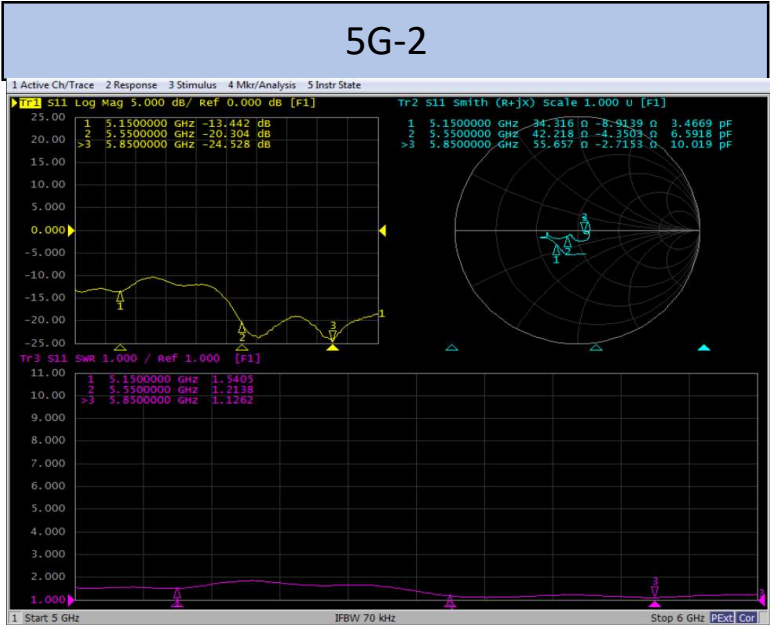
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Antenna matching circuit



Element	
E1(0402)	
E2(0402)	
E3(0402)	

Passive S11 parameter test for antenna



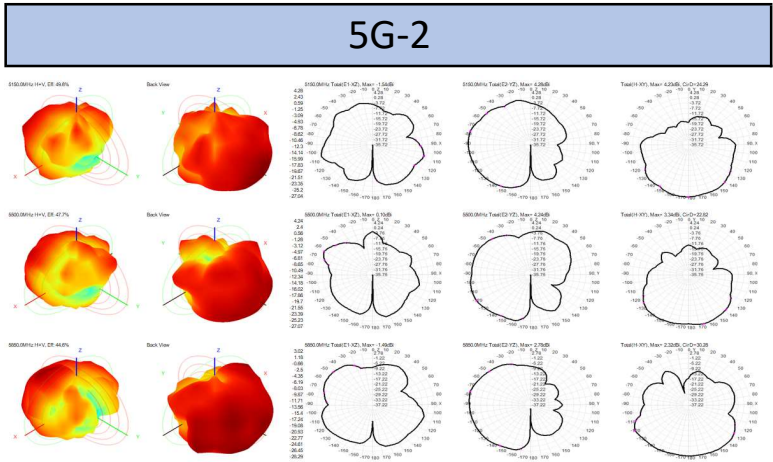
Freq (MHz)	5150	5500	5850
SWR	1.54	1.21	1.13
Log Mag	-13.44	-20.30	-24.53

Passive efficiency and gain testing of antennas

5G-2		
Frequency (MHz)	Gain (dBi)	Efficiency (%)
5150	4.28	49.55
5200	3.74	40.91
5250	3.89	41.10
5300	4.23	41.71
5350	4.25	41.67
5400	3.82	40.35

5450	4.19	42.10
5500	4.24	47.65
5550	4.03	47.54
5600	4.00	46.57
5650	4.14	47.94
5700	4.00	49.05
5750	3.71	46.32
5800	3.11	45.22
5850	3.02	44.62

Passive radiation pattern of antenna



Antenna position and matching image

