

Shenzhen Etheta Communicate Ltd.
(Shenzhen R&D)

Customer: TCL Communication Ltd.

Project name: GAIA

Product name: GAIA antenna

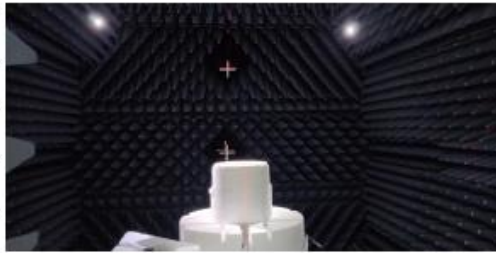
Material: FPC

Date: 2023.5.16

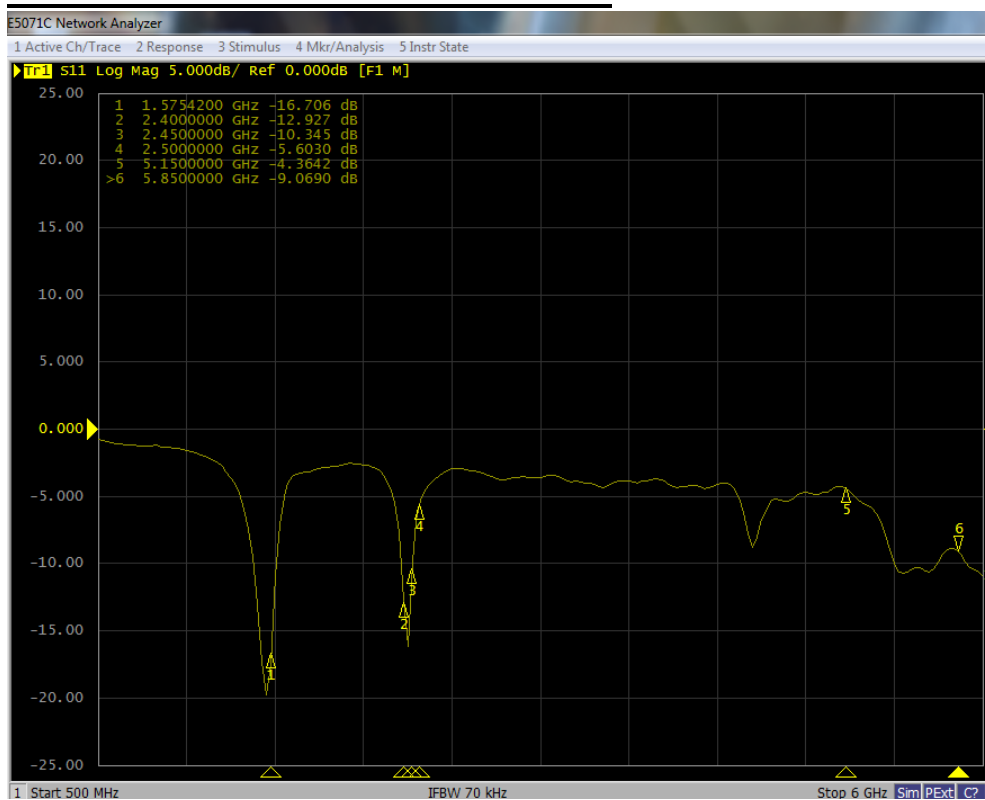
Test system introduction:

实验室测试环境及设备

测试项目	测试设备
S11、S12、VSWR、LOSS	网络分析仪E5071C
Efficiency、Gain	SATIMO暗室
TRP、TIS	8960、GTS2800
SAR&HAC	SAR 测试系统



S11: WiFi 2.4G+5G+GPS



Effi, Gain:

WiFi 2.4G+5G+GPS

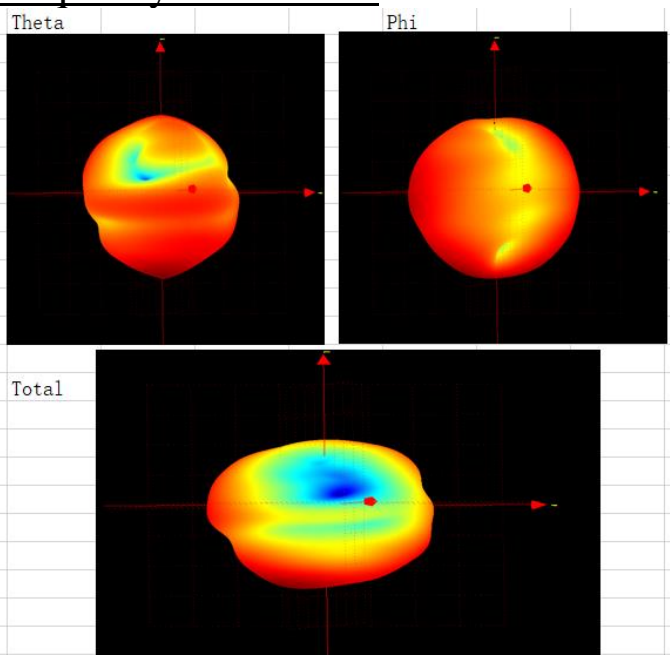
Fre(MHz)	Effi	Effi(dB)	Peak Gain	AVG Gain
1550	19%	-7.05	-0.68	-3.87
1555	20%	-6.91	-0.74	-3.83
1560	20%	-6.85	-0.65	-3.75
1565	22%	-6.57	-0.92	-3.75
1570	22%	-6.53	-0.82	-3.32
1575	22%	-6.42	-0.57	-3.24
1580	19%	-7.08	-0.69	-3.79
1585	18%	-7.45	-0.88	-3.27
1590	18%	-7.47	-0.95	-3.36
1595	17%	-7.61	-0.92	-3.47
1600	17%	-7.62	-0.88	-3.57
2400	14%	-9.16	-2.86	-6.01
2410	14%	-9.39	-2.84	-5.89
2420	14%	-9.3	-2.78	-6.04
2430	13%	-9.61	-2.46	-5.15
2440	14%	-9.28	-2.58	-5.88
2450	15%	-9.07	-2.79	-5.67
2460	14%	-9.28	-3.03	-5.16
2470	11%	-9.86	-3.16	-5.51
2480	11%	-9.65	-3.05	-5.35
2490	12%	-9.47	-3.42	-6.07
2500	12%	-9.48	-3.58	-6.03
5150	24%	-6.23	-0.21	-3.01
5170	24%	-6.18	-0.25	-2.97
5190	25%	-6.04	-0.33	-2.86
5210	24%	-6.32	-0.39	-2.97
5230	23%	-6.3	-0.14	-3.01
5250	23%	-6.36	-0.02	-3.08
5270	23%	-6.41	0.31	-2.78
5290	23%	-6.35	0.18	-2.78
5310	24%	-6.1	-0.04	-3.33
5330	23%	-6.46	-0.12	-3.40
5350	23%	-6.32	-0.04	-3.64
5370	23%	-6.52	-0.03	-3.75
5390	21%	-6.62	-0.11	-3.76
5410	21%	-6.58	-0.31	-3.64
5430	21%	-6.31	-1.2	-3.56
5450	20%	-6.86	-1.6	-3.63
5470	20%	-6.74	-1.86	-3.44

5490	21%	-6.8	-1.13	-3.34
5510	21%	-6.75	-1.33	-3.21
5530	21%	-6.82	-1.32	-3.25
5550	22%	-6.64	-1.49	-3.08
5570	23%	-6.37	-0.79	-3.79
5590	24%	-6.17	-1.04	-3.57
5610	25%	-6.08	-1.24	-3.42
5630	23%	-6.31	-1.1	-3.61
5650	23%	-6.47	-1.02	-3.73
5670	23%	-6.3	-1.3	-3.50
5690	23%	-6.08	-1.55	-3.27
5710	23%	-6.04	-1.53	-3.26
5730	22%	-6.12	-1.49	-3.32
5750	22%	-6.3	-1.28	-3.51
5770	23%	-6.46	-1.07	-3.70
5790	22%	-6.54	-0.66	-2.94
5810	21%	-6.59	-0.59	-3.00
5830	21%	-6.87	-0.57	-3.15
5850	20%	-6.96	-0.24	-3.36

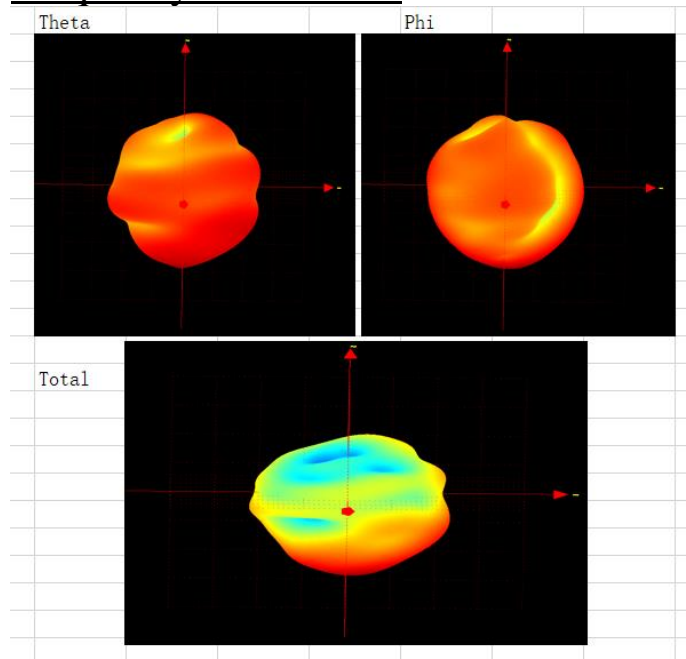
3D Pattern:

WiFi 2.4G+5G+GPS

Frequency=1575MHz:



Frequency=2450MHz:



Frequency=5500MHz:

