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27 Inch Mobile Screen 27A32 (Qualcomm Solution)-Antenna Report

**Electrical department
20250103**

- 1 Catalogue
- 2 Report Resume
- 3 The Environment of Antenna
- 4 Antenna Performance
- 5 Antenna Size, Model, Supplier

2.Report Resume



Date	Summary of Report Content
20241231	DVT machine antenna debugging results
20250103	Add antenna model, size, orientation diagram, manufacturer, and address.

3.The Environment of Antenna

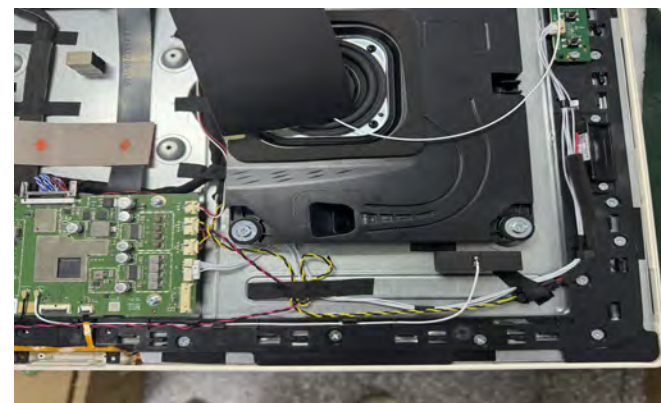
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Overall environment

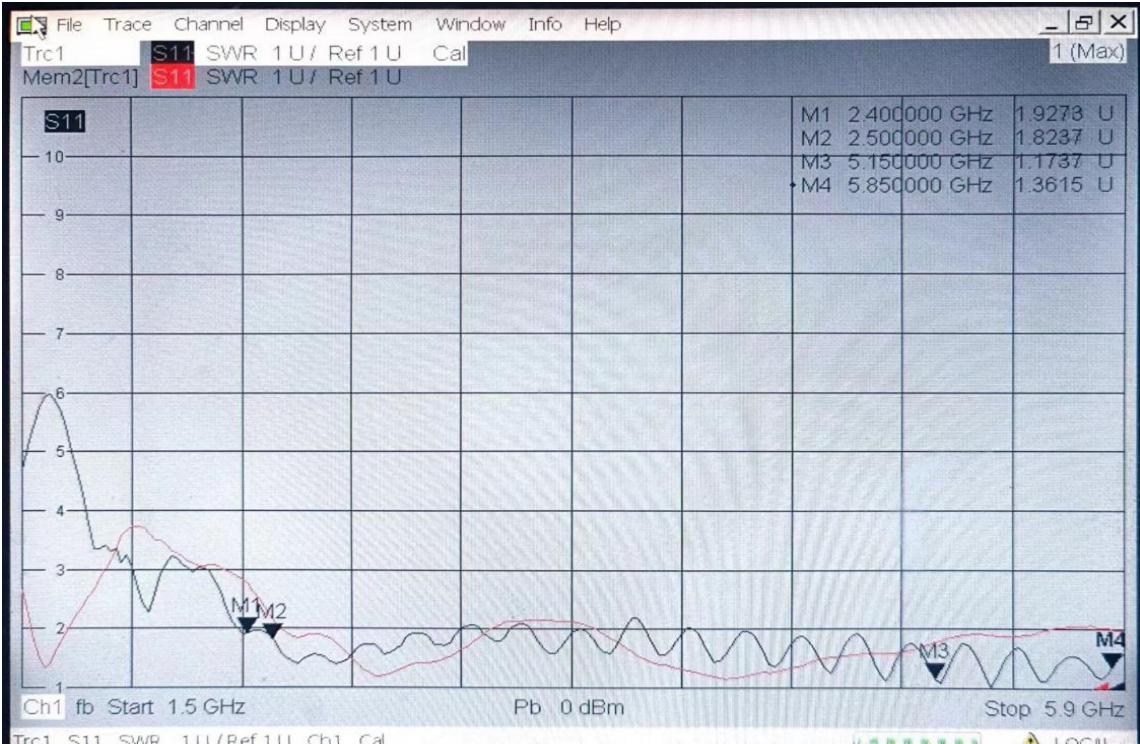


WiFi2.4G-Black



WiFi5G-White

4.Antenna Performance-WiFi2.4G-Black-Passive-VSWR+EFF+GAIN

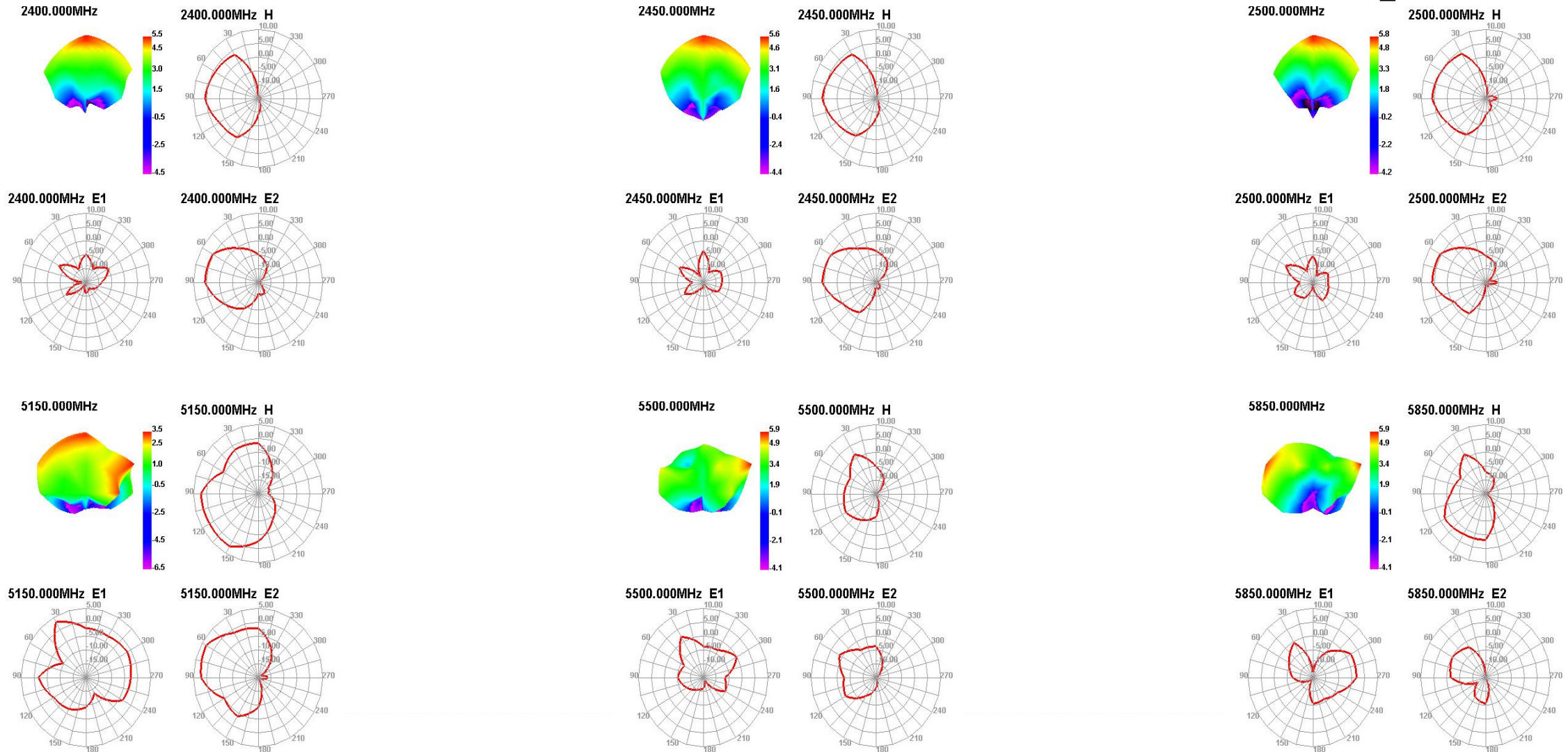


VSWR<2

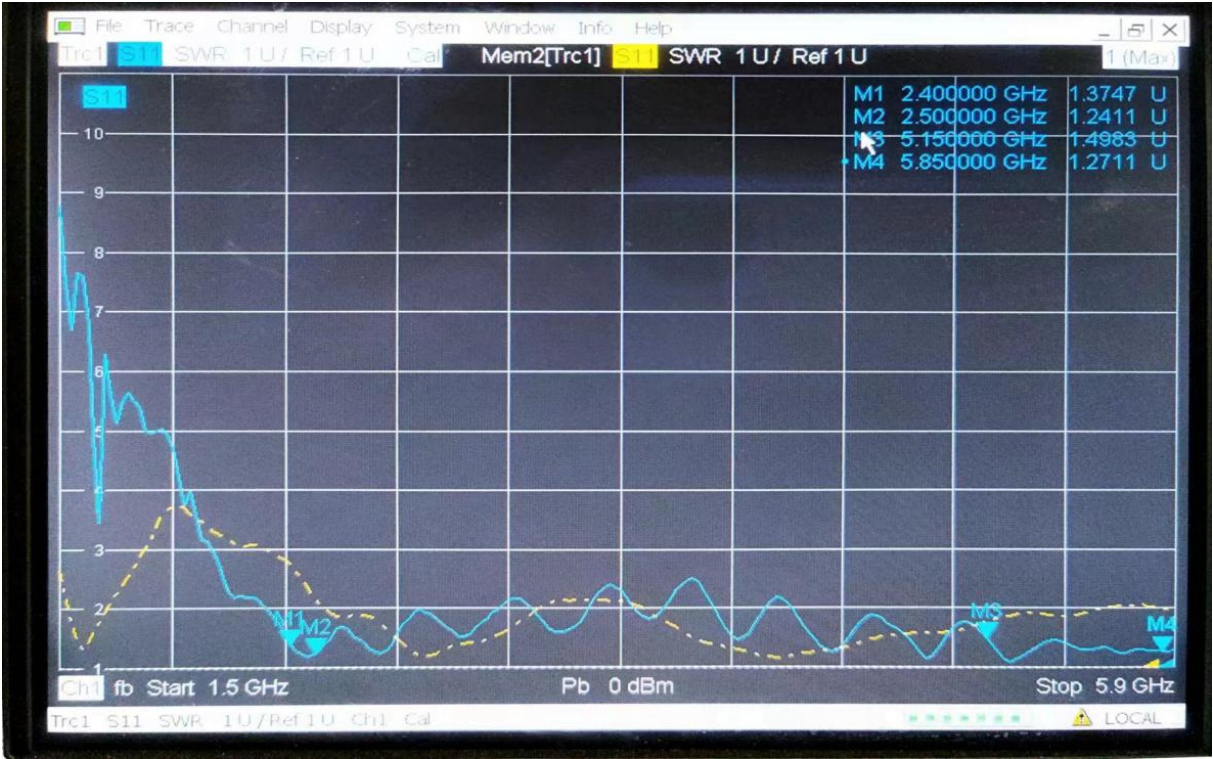
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	54.69	-2.21	4.41
2410	56.67	-2.06	4.44
2420	57.73	-1.95	4.81
2430	58.01	-1.92	5.05
2440	60.81	-1.69	5.37
2450	63.19	-1.51	5.29
2460	60.81	-1.66	5.39
2470	63.81	-1.44	5.33
2480	61.37	-1.58	5.39
2490	62.55	-1.50	5.57
2500	60.13	-1.71	5.64
AVG	59.98	-1.75	5.15
5140	46.33	-3.34	3.16
5160	47.53	-3.23	3.50
5180	45.25	-3.44	4.11
5200	43.91	-3.57	4.24
5220	45.27	-3.44	4.25
5240	47.36	-3.25	4.60
5260	48.06	-3.18	4.57
5280	48.10	-3.18	4.68
5300	46.53	-3.32	4.82
5320	47.87	-3.20	4.63
5340	47.93	-3.19	4.64
5360	48.43	-3.15	4.62
5380	48.52	-3.14	4.58

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5400	46.64	-3.31	4.56
5420	47.16	-3.26	4.40
5440	46.38	-3.34	4.38
5460	45.13	-3.46	4.21
5480	45.50	-3.42	4.06
5500	45.20	-3.45	3.64
5520	46.74	-3.30	3.43
5540	46.15	-3.36	3.04
5560	46.66	-3.31	3.41
5580	46.24	-3.35	3.65
5600	47.05	-3.27	3.77
5620	47.55	-3.23	3.85
5640	47.86	-3.20	3.70
5660	47.22	-3.26	3.99
5680	47.98	-3.19	3.88
5700	48.17	-3.17	3.85
5720	48.74	-3.12	3.64
5740	47.83	-3.20	3.58
5760	46.34	-3.34	3.35
5780	45.43	-3.43	3.34
5800	44.28	-3.54	3.29
5820	45.18	-3.45	3.32
5840	46.01	-3.37	3.35
5860	42.94	-3.67	3.15
AVG	46.63	-3.31	3.93

4. Antenna Performance-WiFi2.4G-Black-Antenna pattern **KTC**



4.Antenna Performance-WiFi5G-White-Passive-VSWR+EFF+GAIN

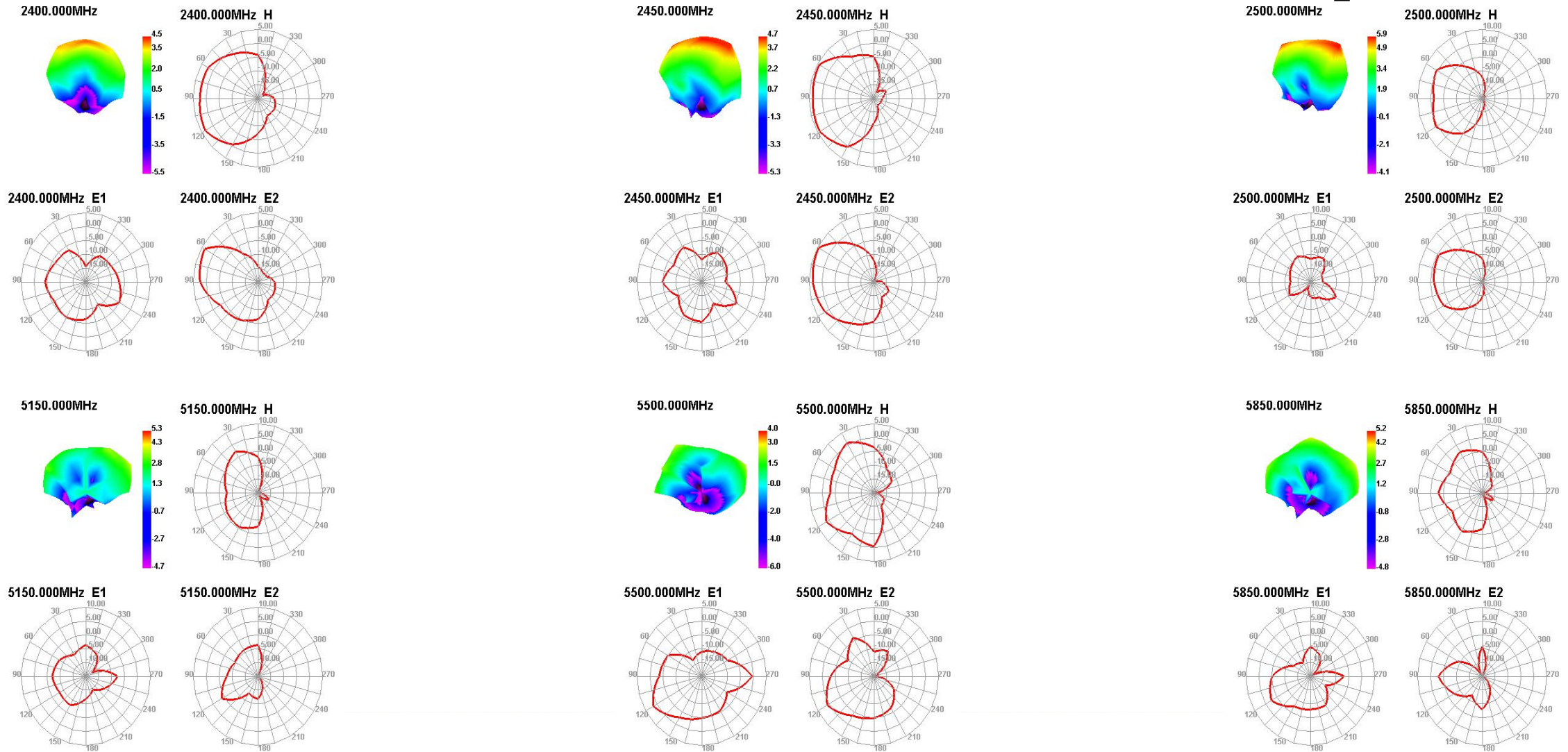


VSWR<2

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	65.79	-1.82	5.08
2410	67.03	-1.74	5.05
2420	70.14	-1.54	5.06
2430	71.84	-1.44	5.14
2440	73.41	-1.34	5.20
2450	77.26	-1.12	4.85
2460	72.52	-1.40	4.83
2470	74.20	-1.30	4.81
2480	71.42	-1.46	5.06
2490	71.26	-1.47	5.71
2500	68.73	-1.63	6.00
AVG	71.24	-1.48	5.16
5140	47.19	-3.26	4.28
5160	48.32	-3.16	4.19
5180	45.39	-3.43	4.53
5200	45.07	-3.46	4.93
5220	46.32	-3.34	5.04
5240	47.62	-3.22	5.12
5260	47.19	-3.26	5.18
5280	46.70	-3.31	5.44
5300	45.75	-3.40	5.70
5320	46.10	-3.36	5.45
5340	45.56	-3.41	5.64
5360	45.69	-3.40	5.62
5380	45.71	-3.40	5.51

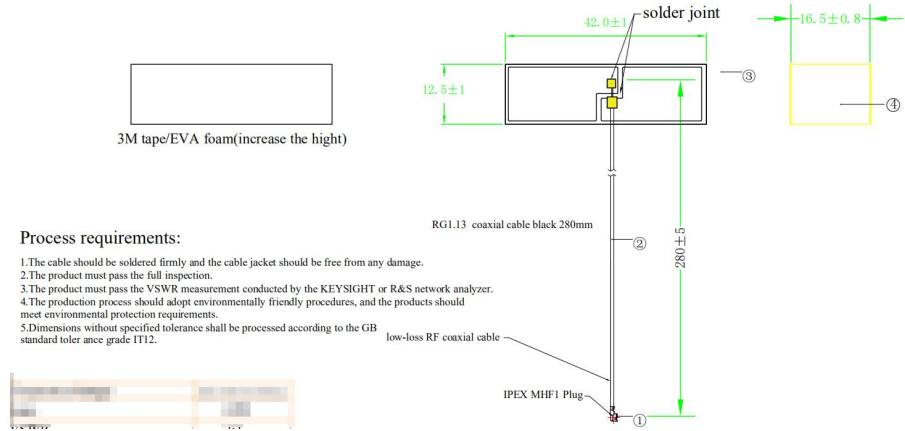
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5400	45.61	-3.41	5.36
5420	45.75	-3.40	5.01
5440	45.09	-3.46	4.97
5460	44.70	-3.50	5.12
5480	44.43	-3.52	5.22
5500	43.44	-3.62	5.38
5520	44.27	-3.54	5.59
5540	42.87	-3.68	5.71
5560	43.40	-3.62	5.90
5580	42.84	-3.68	5.86
5600	43.93	-3.57	5.75
5620	43.58	-3.61	5.93
5640	43.92	-3.57	5.99
5660	43.44	-3.62	6.27
5680	43.96	-3.57	6.16
5700	43.94	-3.57	6.17
5720	43.88	-3.58	6.02
5740	44.23	-3.54	5.98
5760	44.86	-3.48	6.07
5780	44.24	-3.54	5.96
5800	42.51	-3.72	5.89
5820	43.21	-3.64	5.85
5840	43.98	-3.57	5.86
5860	42.10	-3.76	5.82
AVG	44.78	-3.49	5.53

4. Antenna Performance-WiFi5G-White-Antenna patternKTC



5. Antenna type, size, manufacturer and address

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WiFi2.4G-Black

Antenna model:

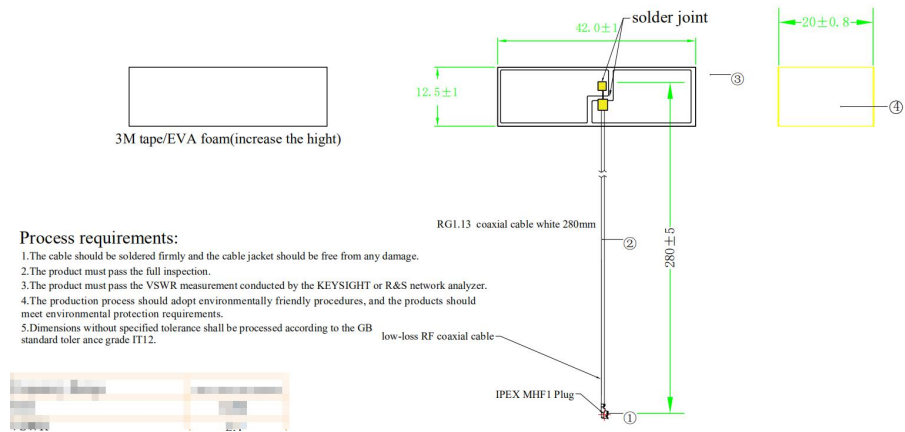
WiFi2.4G- Black: 2.4G antenna;

WiFi5G- White: 5G antenna;

Supplier: Shenzhen Zhaohe Communication Technology Co., LTD

Address: 2nd Floor, Building 6, No. 25, Wulian Road, Longxi Community, Longgang District, Shenzhen

Note: The dimensions indicated in the figure are in mm.



WiFi5G-White