



Shenzhen Meihejia Technology Co., Ltd.

Antenna test report



customer name	England	project name	X101
Commissioning frequency band	WIFI/BT	structure mode	FPC
Radio frequency engineer	Hu Gong	construction engineer	Liang Gong
Antenna type	PIFA	date	2022-06-10

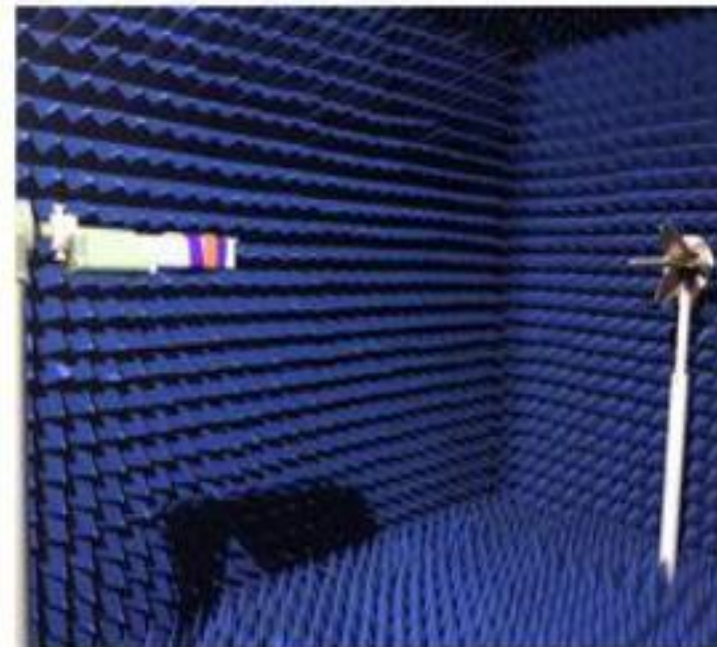


Test environment

	test project	equipment
1. (S-parameter)	1. (Return Loss) 2. (VSWR)	Agilent E5071B HP 8753D
2. (Active)	1. (TRP) 2. (TIS)	1. ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Agilent 8960 E5515B × 2 StarPoint SP6011
3. (Passive)	1 (Gain) 2 (Efficiency)	1. ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Agilent E5071B HP 8753D



Test Equipment



Antenna position



WIFI antenna

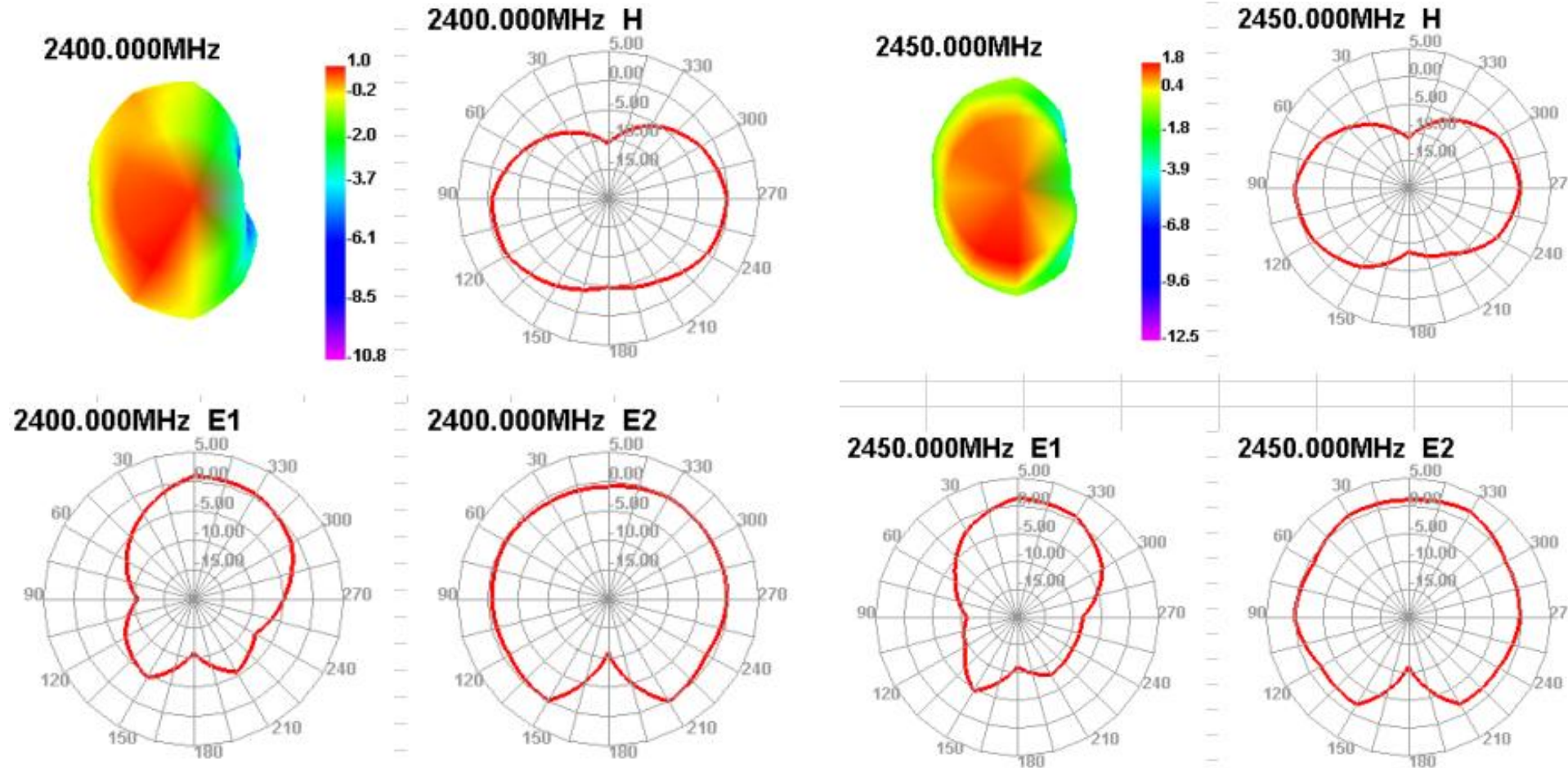


Efficiency and gain

Passive Test For WIFI2.4										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	58.89	-2.3	0.99	-1.16	33.42	25.471	0.99	-10.83	52.03	53.99
2410	56.19	-2.5	0.68	-1.47	31.643	24.552	0.68	-10.04	51.99	53.84
2420	51.52	-2.88	0.65	-1.5	29.15	22.367	0.65	-10.43	52.04	53.98
2430	51.19	-2.91	1.08	-1.07	29.377	21.815	1.08	-10.43	52.23	54.02
2440	58.27	-2.35	1.61	-0.54	34.961	23.308	1.61	-10.54	52.54	54.25
2450	55.95	-2.52	1.8	-0.35	35.138	20.808	1.8	-12.48	52.64	54.11
2460	54.69	-2.62	1.7	-0.45	35.013	19.675	1.7	-14.82	52.59	54.02
2470	59.1	-2.28	2.07	-0.08	38.551	20.55	2.07	-15.38	52.66	54.04
2480	69.15	-1.6	2.76	0.61	44.482	24.668	2.76	-15.09	53.06	54.43
2490	71.4	-1.46	2.95	0.8	45.995	25.405	2.95	-14.51	53.33	54.57
2500	65.37	-1.85	2.63	0.48	41.995	23.372	2.63	-13.2	53.11	54.29

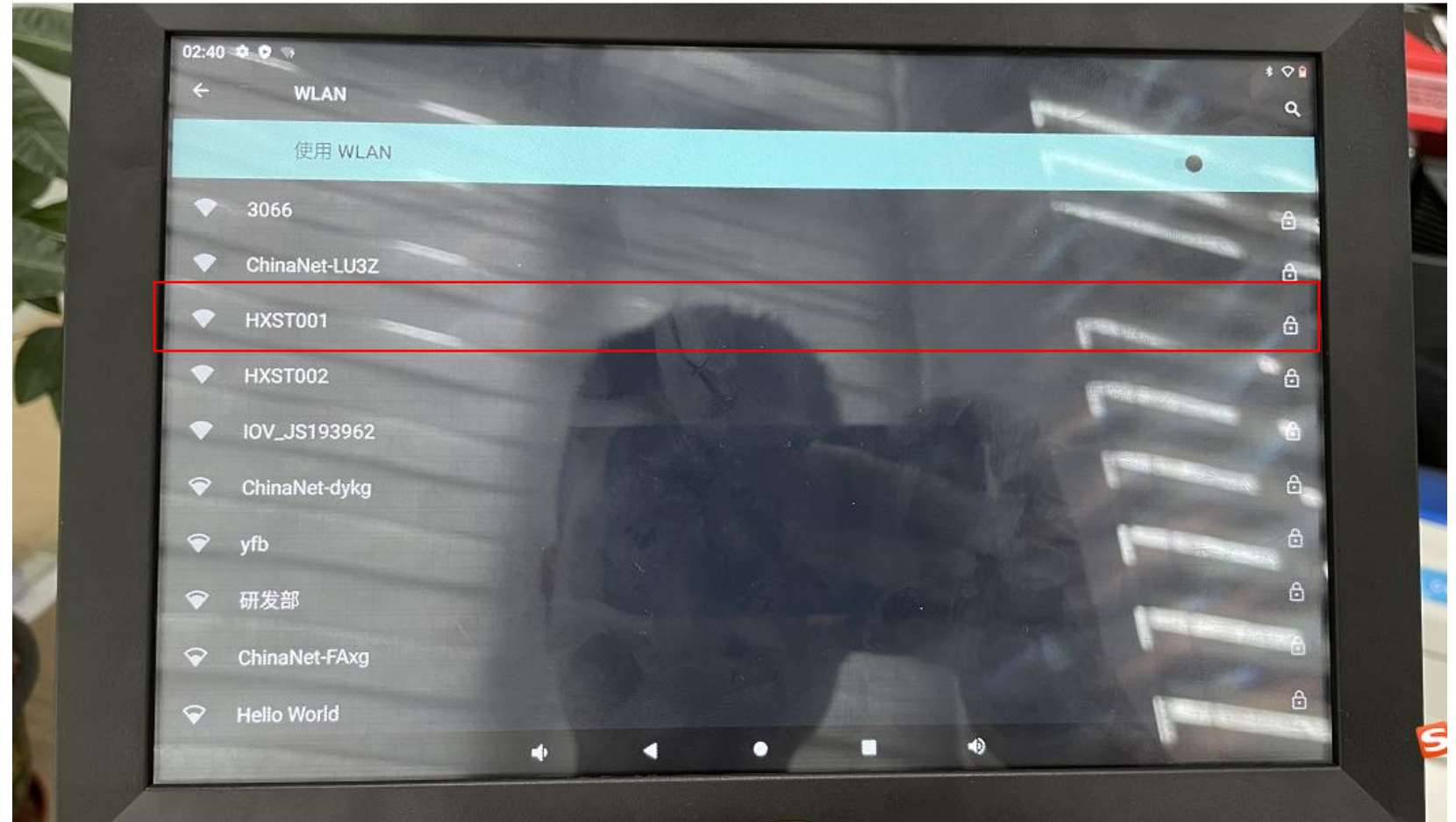


Efficiency and gain



Wifi Antenna test

Test environment:
the office
distance from the
router: about 15
meters





Provide better service for our customers

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