



深圳市海德门电子有限公司

ShenZhen Deman Electronics Technology Co., Ltd

Antenna Test Report

For

Project P5 Pro- 3IN1 Antenna

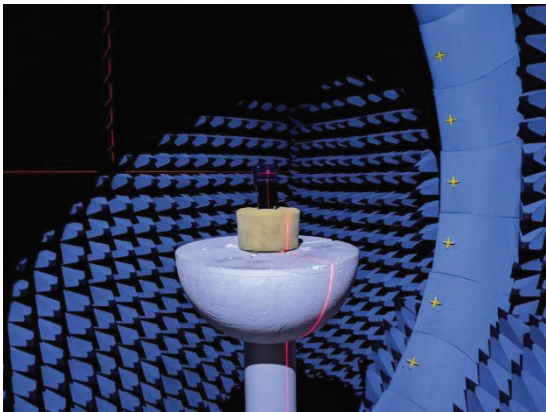
Customer	Beijing Wiseasy Technology Co.,Ltd.	Project	P5 Pro
Band	GPS: L1 WIFI: 2.4/5G	Color	Black
PRS PN	ShenZhen Deman Electronics Technology Co., Ltd	Version	DF
Model name	P5 Pro-3IN1-H3997	Antenna type	FPC
		Date	2026.1.8

ShenZhen Deman Electronics Technology Co., Ltd
Address: Sunlord Industrial Park, No. 1 Fengtai Road, Tangxia Town, Dongguan City, Guangdong

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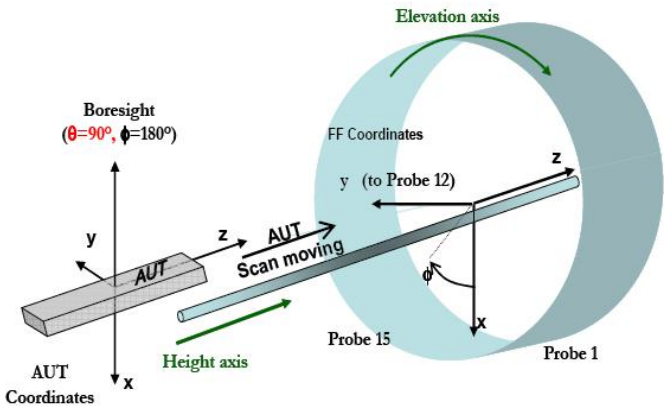
A.TEST INSTRUMENTATION

CHAMBER	SATIMO Chamber
Wireless Networking Test Set	Agilent 8960 5515C
NETWORK ANALYZER	Agilent 5072AD
COMPREHENSIVE TESTER	R&S CMW500
TEMPERATURE	20±2℃
HUMIDITY	50±20%rh
Antenna Types	Loop

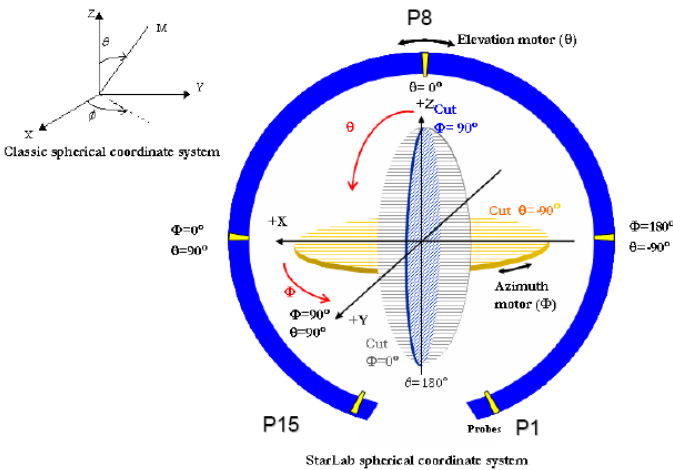


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Coordinate system – Cylindrical geometry



Coordinate system – Spherical geometry



B. Definitions

VSWR: Voltage Standing Wave Rate



C. TRP&TIS

Unit: dBm

Band	Channel	TRP(dBm)	TIS(dBm)
2.4G 11b(11M)	1	12.55	
	7	13.25	
	11	11.95	-80.63
5G 11a(TX: 6M; RX: 54M)	36	10.48	
	64	10.05	
	165	11.69	-67.58
GPS		-157.26	

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D. Cell-Phone Photo and Dealing Method

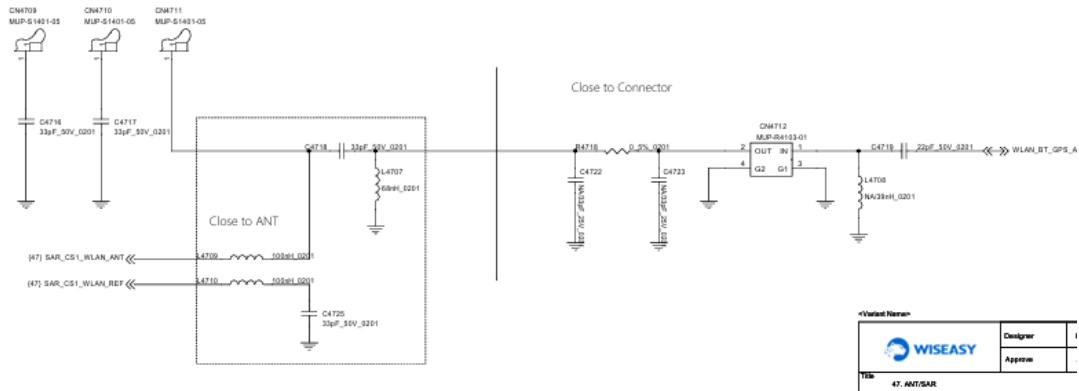
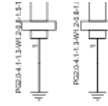


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E. Matching Circuit Description

WIFI/BT/GPS ANT

WIFI:2412-2472MHz
5180-5825MHz
BT:2400-2480MHz
GPS:1575.42±1.023MHz
Glonass:1597.5~1605.8MHz



Cell-phone cable test (Conduct at the test hole and set the line loss as 0)

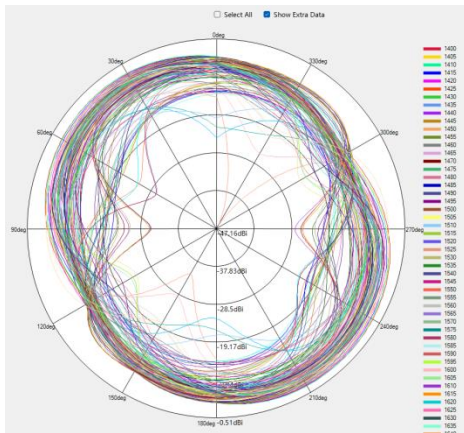
F. Efficiency test results

Freq. (MHz)	Efficiency(%)	Efficiency(dB)	Gain(dBi)	Freq. (MHz)	Efficiency(%)	Efficiency(dB)	Gain(dBi)	Freq. (MHz)	Efficiency(%)	Efficiency(dB)	Gain(dBi)
1550	40.94	-3.88	0.5	2400	38.73	-4.12	1.43	5150	26.34	-5.79	0.34
1555	39.42	-4.04	0.21	2410	38.18	-4.18	1.26	5200	23.16	-6.35	-0.2
1560	38.24	-4.17	-0.11	2420	38.38	-4.16	1.16	5250	23.44	-6.3	-0.47
1565	37.68	-4.24	-0.37	2430	37.97	-4.21	1.05	5300	23.38	-6.31	-0.67
1570	36.98	-4.32	-0.65	2440	37.45	-4.27	1.05	5350	23.96	-6.2	-0.54
1575	35.7	-4.47	-0.91	2450	36.61	-4.36	0.93	5400	20.59	-6.86	-1.2
1580	34.51	-4.62	-1.13	2460	35.68	-4.48	0.82	5450	20.96	-6.79	-1.37
1585	33.53	-4.75	-1.2	2470	35.55	-4.49	0.8	5500	24.79	-6.06	-0.72
1590	32.63	-4.86	-1.3	2480	35.97	-4.44	0.79	5550	25.84	-5.88	-0.52
1595	31.38	-5.03	-1.5	2490	34.41	-4.63	0.54	5600	21.22	-6.73	-1.56
1600	29.82	-5.25	-1.67	2500	33.61	-4.73	0.4	5650	25.22	-5.98	-0.71
1605	28.44	-5.46	-1.82					5700	26.02	-5.85	-0.72
1610	27.23	-5.65	-2.02					5750	22.54	-6.47	-0.65
								5800	20.79	-6.82	-0.57
								5850	22.95	-6.39	-0.64

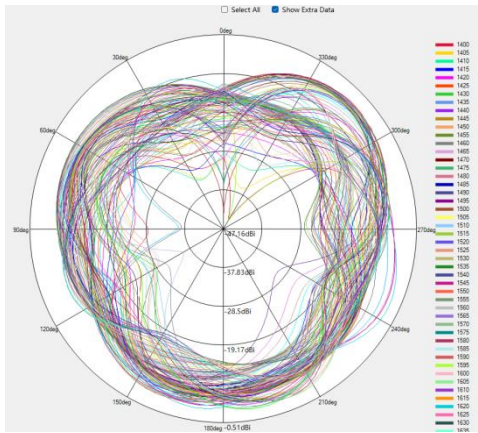
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G. Antenna lobe pattern

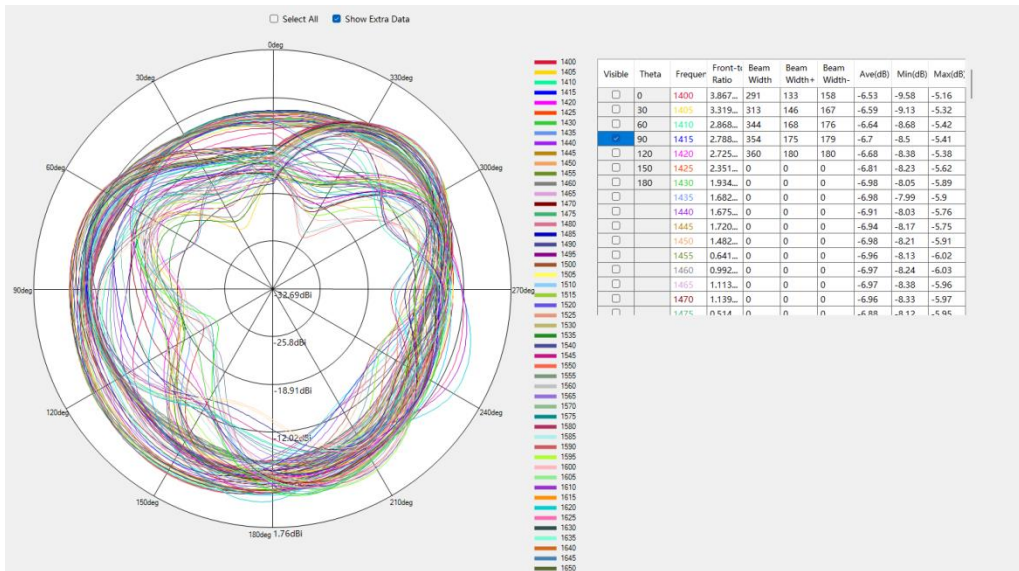
2D Direction diagram



Phi=0



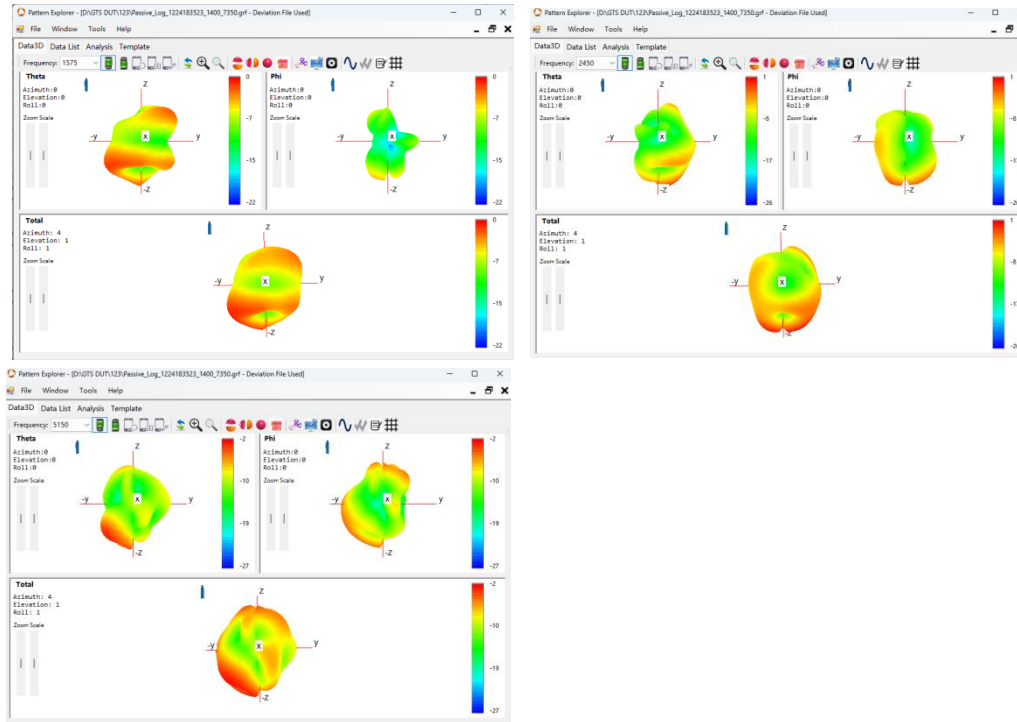
Phi=90



Theta=90

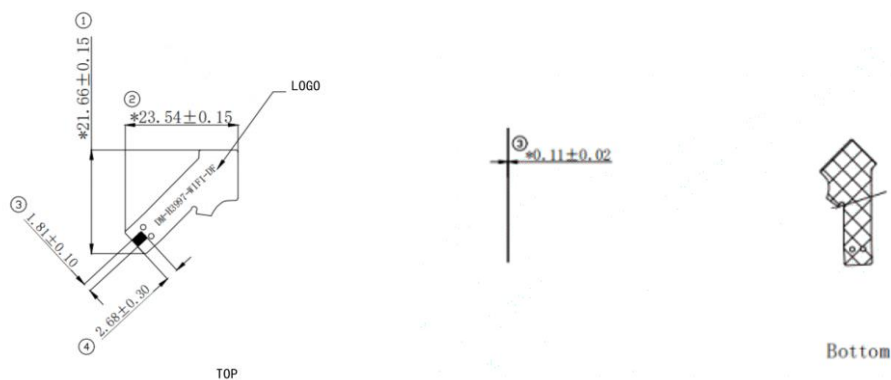
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3D apple Map



H. Antenna drawing

Unit: mm



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