



深圳市海德门电子有限公司

ShenZhen Deman Electronics Technology Co., Ltd

Antenna Test Report

Project P053 3in1 Antenna

Customer	Beijing Wiseasy Technology Co.,Ltd.	Project	P053
Band	WIFI 2.4G&5G BT 2.4G GPS L1	Color	Black
PRS PN	ShenZhen Deman Electronics Technology Co., Ltd	Version	V1.0
Model name	P5K-3IN1-ASM-H3361	Antenna type	FPC+ Cable

Supplier: ShenZhen Deman Electronics Technology Co., Ltd

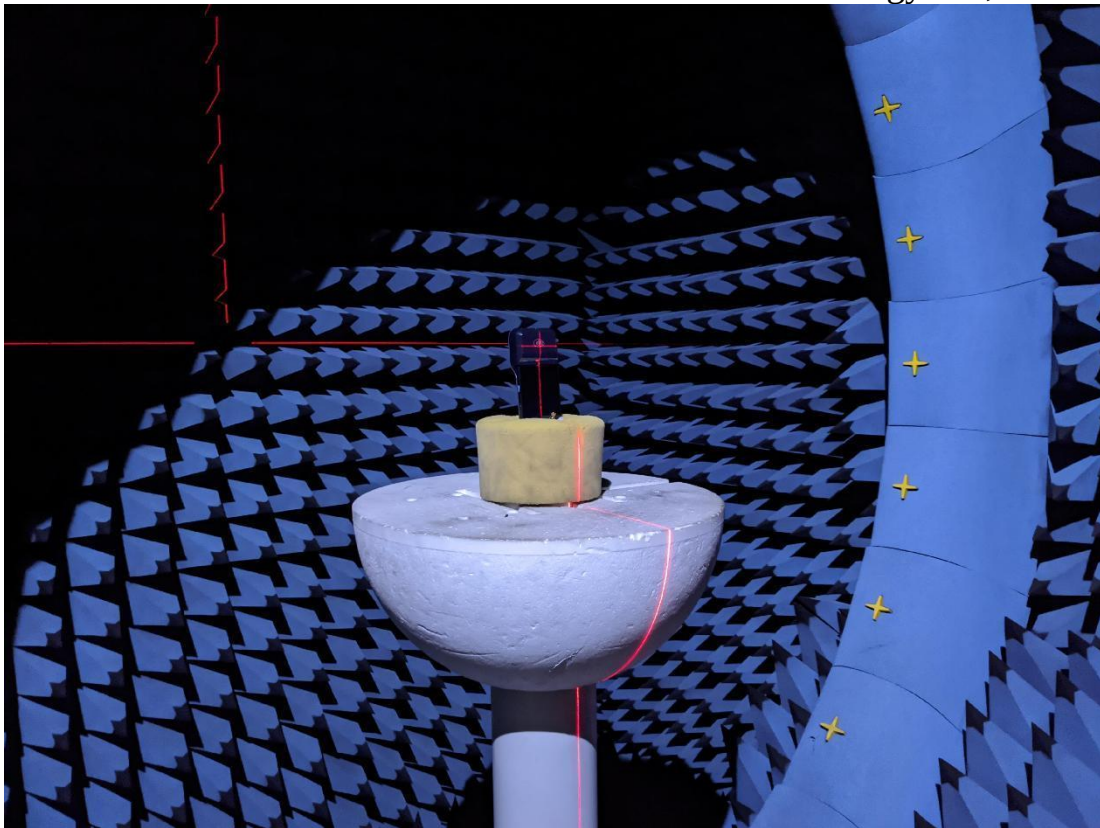
Address: Sunlord Industrial Park, No. 1 Fengtai Road, Tangxia Town, Dongguan City, Guangdong

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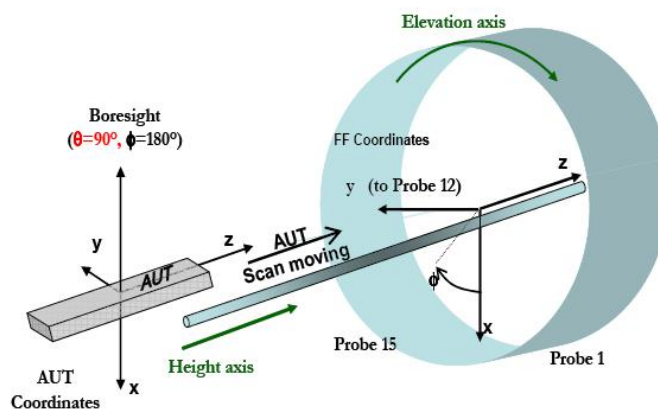
1.TEST INSTRUMENTATION

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 Type	Loop





Coordinate system – Cylindrical geometry

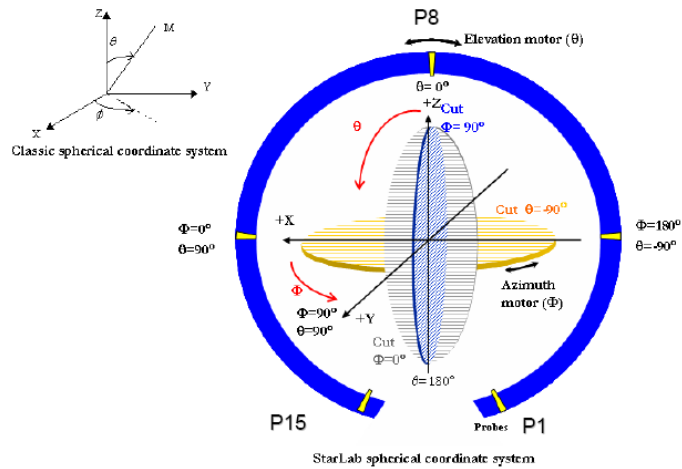


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Coordinate system – Spherical geometry



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2. Antenna efficiency

Freq. (MHz)	Eff. (dB)	Gain (dBi)	Freq. (MHz)	Eff. (dB)	Gain (dBi)	Freq. (MHz)	Eff. (dB)	Gain (dBi)
1555	-4.59	-7.59	2400	-4.8	-0.05	5150	-4.83	0.85
1565	-4.53	-7.53	2410	-4.91	-0.1	5200	-5.22	0.25
1575	-4.49	-7.49	2420	-4.82	0.01	5250	-4.38	0.92
1585	-4.45	-7.45	2430	-4.55	0.23	5300	-3.72	1.66
1595	-4.74	-7.74	2440	-4.55	0.18	5350	-3.18	2.31
1605	-4.85	-7.85	2450	-4.48	0.15	5400	-3.73	1.93
1615	-4.95	-7.95	2460	-4.2	0.53	5450	-3.83	1.82
1625	-4.99	-7.99	2470	-4.13	0.67	5500	-3.64	2.08
1635	-4.89	-7.89	2480	-4.1	0.74	5550	-3.73	2.36
1645	-4.86	-7.86	2490	-4.15	0.69	5600	-4.57	1.9
1655	-7.36	-10.36	2500	-4.06	0.84	5650	-4.18	2.48
						5700	-4.39	2.4
						5750	-5.06	1.74
						5800	-5.39	1.37
						5850	-4.94	1.73

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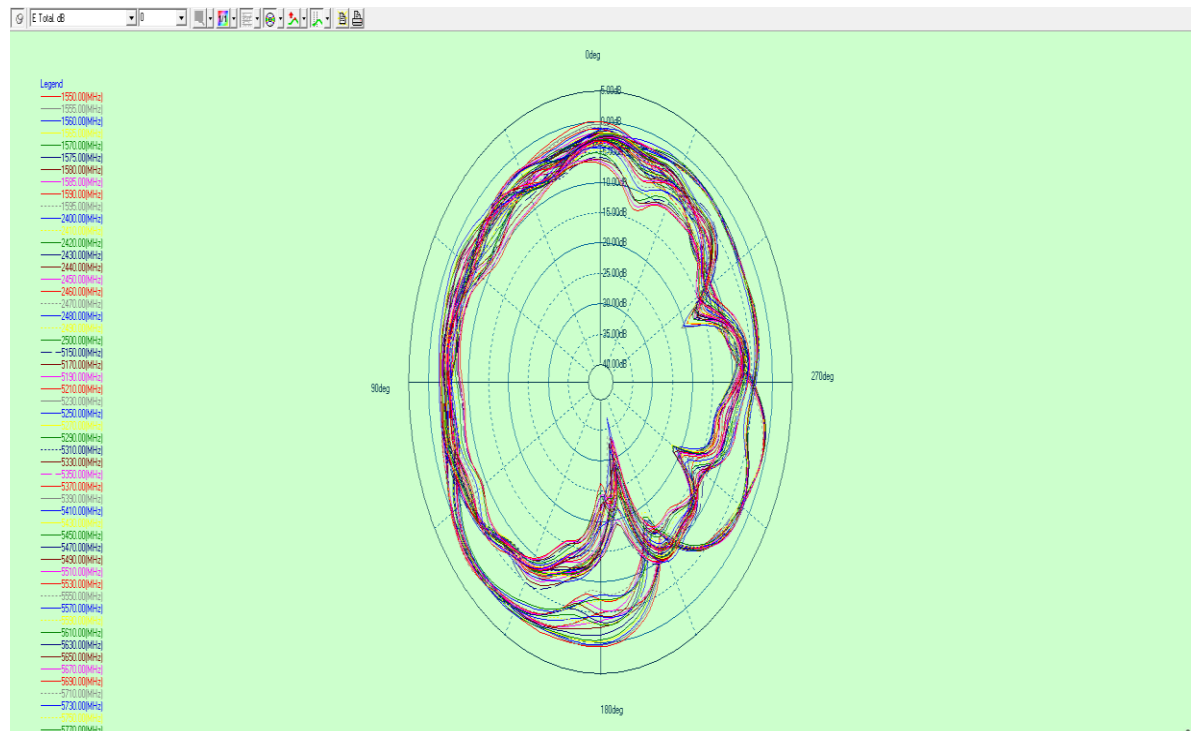
3. TRP&TIS

Unit: dBm

Band	Channel	TRP	TIS
WIFI 2.4G 11B (11m)	1	12.21	
	7	12.65	
	13	13.38	-84.57
WIFI 5G 11A (56m)	36	11	
	64	11.22	
	165	11.58	-68.9
GPS		-155.1	

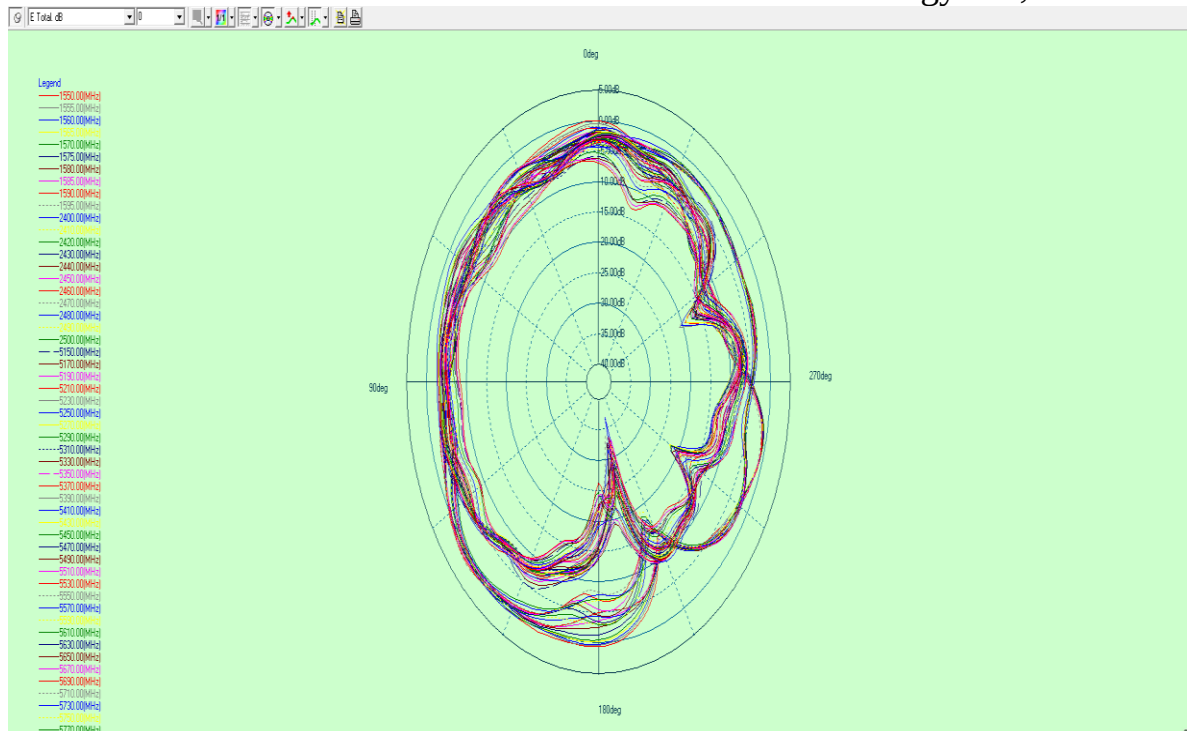
4. Antenna lobe pattern

2D Direction diagram

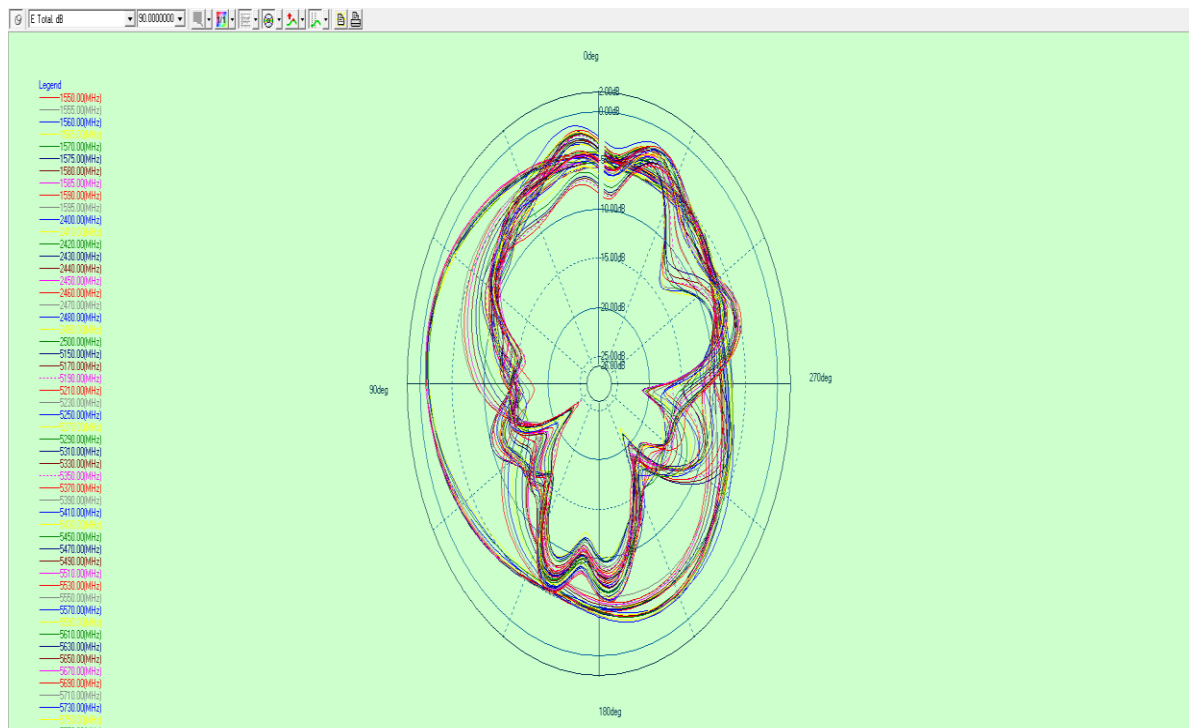


Phi=0

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Phi=90



Theta=90

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5. Antenna drawing

