

Antenna Test Report

For

Project P5 Pro MAIN Antenna

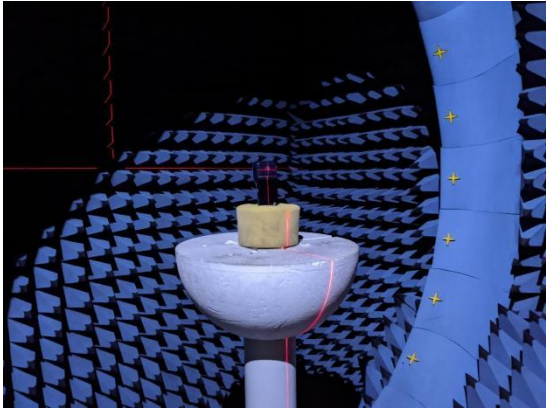
Customer	Beijing Wiseasy Technology Co.,Ltd.	Project	P5 Pro
Band	P5 Pro-NA: 4G: B2/4/5/7/12/17/25/26/41/66 3G: B2/4/5 2G: 850/1900 P5 Pro-EU: 4G: B1/2/3/4/5/7/8/18/19/20/25/26/28/66 /38/40/41 3G: B1/2/3/4/5/8 2G: 850/900/1800/1900 P5 Pro-JP: 4G: B1/3/8/18/19/26/28/41 3G: B1/6/8/9/19	Color	Black
PRS PN	ShenZhen Deman Electronics Technology Co., Ltd	Version	DF
Model name	P5 Pro-MAIN_ANT-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

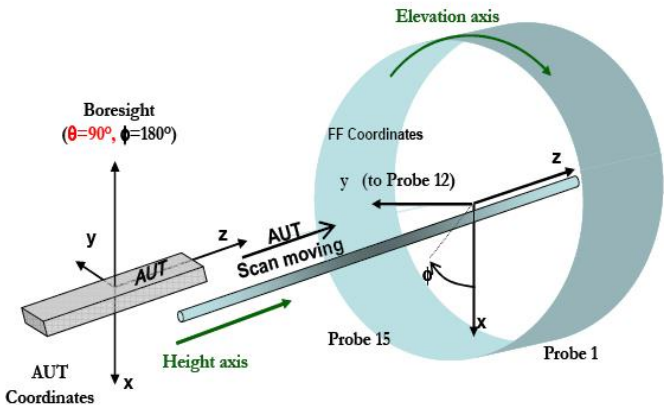
This test report belongs to ShenZhen Deman Electronics Technology Co., Ltd and related clients to file, please keep it properly, without our company and related clients allowed, anybody has no rights to reveal it to public.

A.TEST INSTRUMENTATION

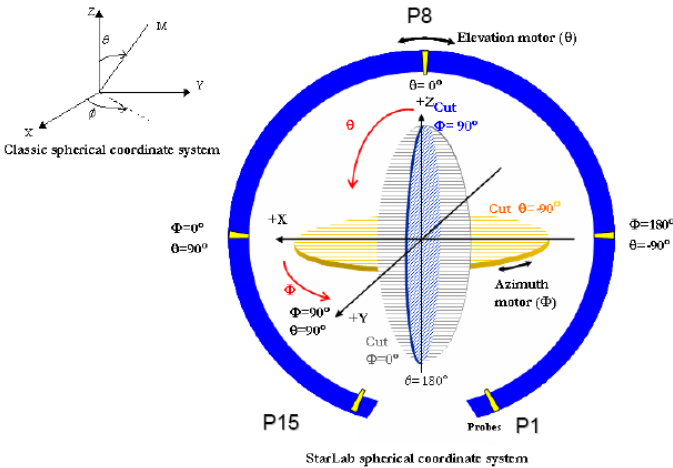
CHAMBER	SATIMO Chamber
Wireless Networking Test Set	Agilent 8960 5515C
NETWORK ANALYZER	Agilent 5072AD
COMPREHENSIVE TESTER	R&S CMW500
TEMPERATURE	20±2℃
HUMIDITY	50±20%rh
Antenna Types	Loop



Coordinate system – Cylindrical geometry

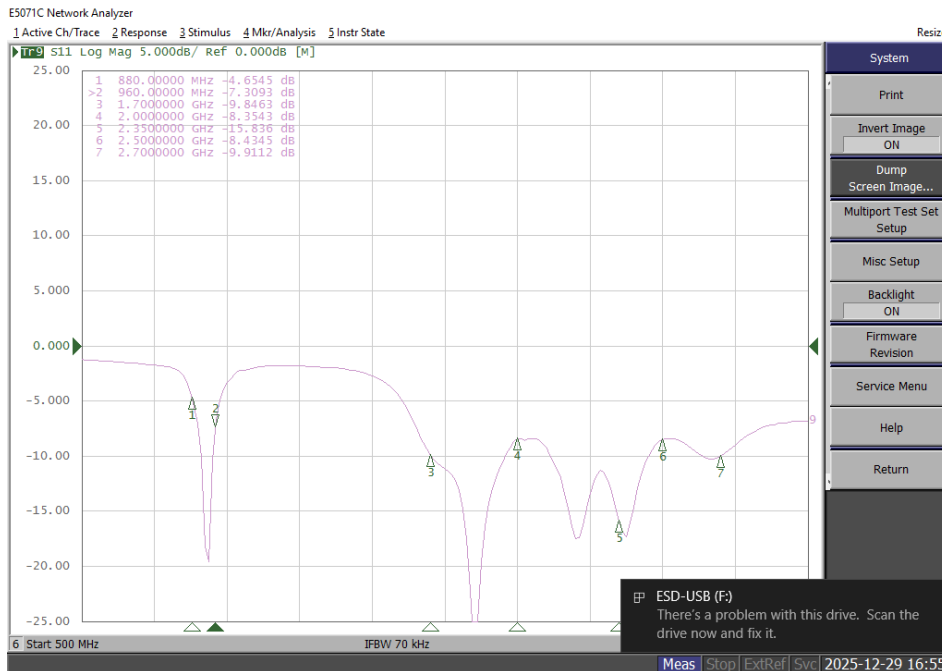
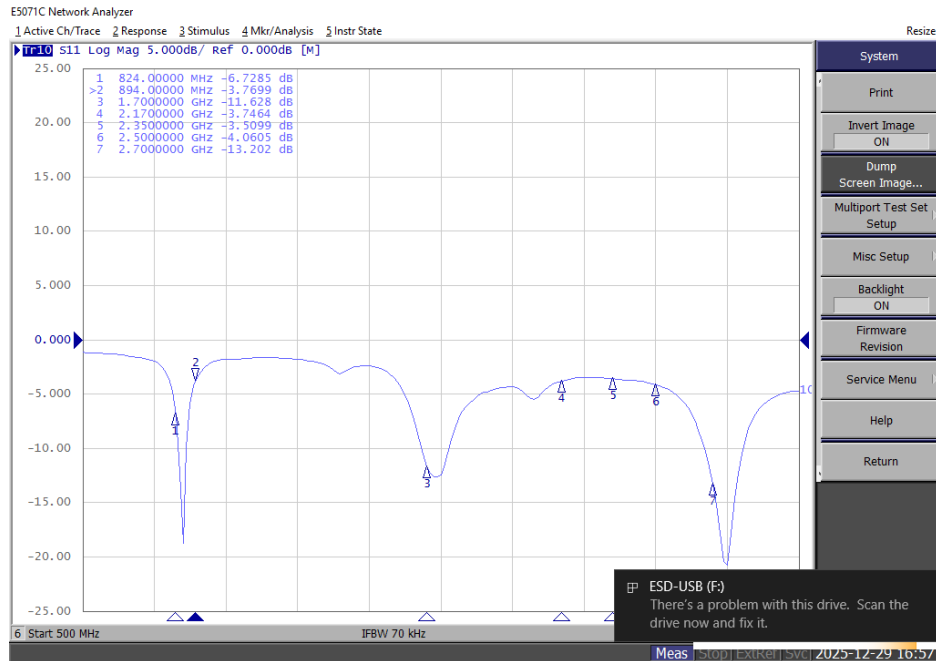


Coordinate system – Spherical geometry

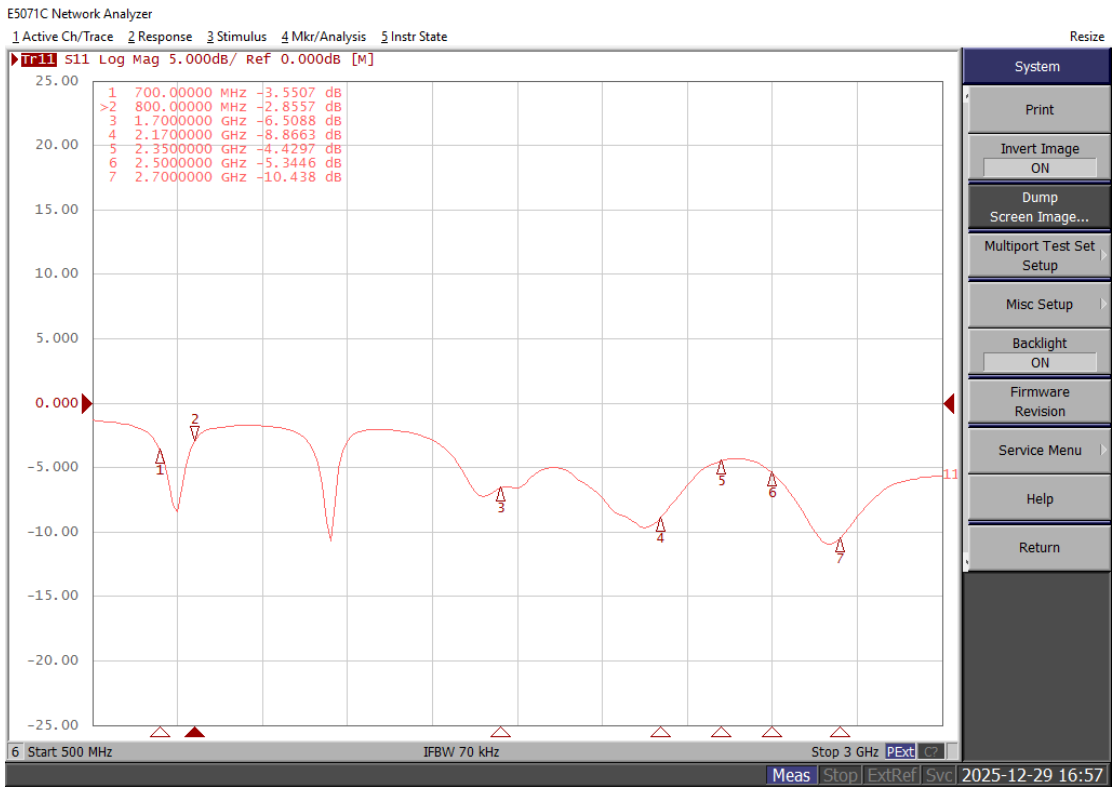


B. Definitions

VSWR: Voltage Standing Wave Rate



This test report belongs to ShenZhen Deman Electronics Technology Co., Ltd and related clients to file, please keep it properly, without our company and related clients allowed, anybody has no rights to reveal it to public.



This test report belongs to ShenZhen Deman Electronics Technology Co., Ltd and related clients to file, please keep it properly, without our company and related clients allowed, anybody has no rights to reveal it to public.

C. TRP&TIS

P5 Pro-EU

Band	Channel	Freq (MHz)	TRP (dBm)	TIS (dBm)	Band	Channel	Freq (MHz)	TRP (dBm)	TIS (dBm)	Band	Channel	Freq (MHz)	TRP (dBm)	TIS (dBm)
B1	18050	1925	17.44		B20	24200	837	16.11		W2	9262	1852.4	16.23	
	18300	1950	17.58			24300	847	15.58			9400	1880	16.73	
	18550	1975	16.57	-95.99		24400	857	14.95	-93.62		9538	1907.6	16.99	-110.37
B2	18650	1855	17.24		B25	26090	1855	17.15		W3	937	1712.4	15.65	
	18900	1880	17.28			26365	1882.5	17.37			1075	1740	17.16	
	19150	1905	17.32	-98.22		26640	1910	15.92	-97.44		1213	1767.6	17.53	-111
B3	19250	1715	16.12		B26	26740	819	14.03		W4	1312	1712.4	15.98	
	19575	1747.5	16.45			26865	831.5	15.54			1412	1732.4	16.65	
	19900	1780	16.45	-97.56		26990	844	14.85	-94.38		1513	1752.6	16.09	-110.3
B4	20000	1715	15.5		B28	27260	708	12.63		W5	4132	826.4	15.29	
	20175	1732.5	16.1			27435	725.5	13.54			4185	837	15.55	
	20350	1750	16.72	-97.06		27610	743	12.3	-92.32		4233	846.6	15.34	-104.71
B5	20450	829	15.69		B38	37850	2580	15.52		W8	2712	882.4	17.78	
	20525	836.5	16.02			38000	2595	15.89			2788	897.6	18.73	
	20600	844	15.25	-94.54		38150	2610	15.91	-89		2863	912.6	17.4	-106.54
B7	20850	2510	14.96		B40	38750	2310	16.98		GSM 850	128	824.2	16.6	
	21100	2535	15.62			39150	2350	16.92			190	836.6	16.88	
	21350	2560	15.75	-92.96		39550	2390	15.88	-88.65		251	848.8	19.53	-98.85
B8	21500	885	18.37		B41	40340	2565	15.59		GSM 900	975	880.2	26.98	
	21625	897.5	18.32			40740	2605	16.21			38	897.6	28.25	
	21750	910	17.92	-94.26		41140	2645	16.7	-90.49		124	914.8	26.37	-101.71
B18	23900	820	14.02		B66	132022	1715	15.44		GSM 1800	512	1710.2	21.95	
	23925	822.5	14.77			132322	1745	16.57			699	1747.6	22.97	
	23950	825	15.11	-95.35		132622	1775	16.46	-96.36		885	1784.8	23.8	-101.17
B19	24050	835	16.12		W1	9612	1922.4	16.54		GSM 1900	512	1850.2	23.38	
	24075	837.5	16.1			9750	1950	17.47			661	1880	22.57	
	24100	840	15.31	-93.88		9888	1977.6	15.72	-109.57		810	1909.8	22.81	-101.29

P5 Pro-NA

Band	Channel	Freq (MHz)	TRP (dBm)	TIS (dBm)	Band	Channel	Freq (MHz)	TRP (dBm)	TIS (dBm)	Band	Channel	Freq (MHz)	TRP (dBm)	TIS (dBm)
B2	18650	1855	16.04		B17	23780	709	12.7		W2	9262	1852.4	15.21	
	18900	1880	15.96			23790	710	13.11			9400	1880	15	
	19150	1905	16.22	-97.1		23800	711	13.34	-94.02		9538	1907.6	15.59	-102.5
B4	20000	1715	14.94		B25	26090	1855	15.88		W4	1312	1712.4	15.48	
	20175	1732.5	15.86			26365	1882.5	15.97			1412	1732.4	16.66	
	20350	1750	16.06	-97.02		26640	1910	15.25	-96.86		1513	1752.6	15.58	-111.04
B5	20450	829	15.69		B26	26740	819	14.87		W5	4132	826.4	15.68	
	20525	836.5	16.33			26865	831.5	15.69			4185	837	16.16	
	20600	844	15.96	-93.56		26990	844	15.6	-93.56		4233	846.6	16.22	-102.24
B7	20850	2510	16.46		B41	40340	2565	16.7		850	128	824.2	16.48	
	21100	2535	17.07			40740	2605	16.96			190	836.6	16.88	
	21350	2560	16.83	-92.39		41140	2645	16.66	-89.39		251	848.8	18.8	-99.71
B12	23060	704	12.76		B66	132022	1715	15.56		1900	512	1850.2	22.58	
	23095	707.5	12.72			132322	1745	16.45			661	1880	22.12	
	23130	711	13.42	-92.48		132622	1775	15.81	-96.9		810	1909.8	22.22	-100.52

P5 Pro-JP

Band	Channel	Freq (MHz)	TRP (dBm)	TIS (dBm)	Band	Channel	Freq (MHz)	TRP (dBm)	TIS (dBm)	Band	Channel	Freq (MHz)	TRP (dBm)	TIS (dBm)
B1	18050	1925	15.65		B26	26740	819	15.32		W8	2712	882.4	16.63	
	18300	1950	16.47			26865	831.5	16.08			2788	897.6	17.88	
	18550	1975	15.05	-97.03		26990	844	15.49	-94.34		2863	912.6	16.19	-108.5
B3	19250	1715	15.11		B28	27260	708	12.16		W9	8762	1752.4	16.38	
	19575	1747.5	15.49			27435	725.5	13.06			8837	1767.4	16.32	
	19900	1780	14.81	-96.5		27610	743	12.04	-92.08		8912	1782.4	16.63	-109.82
B8	21500	885	17.72		B41	40340	2565	17.4		W19	312	832.4	15.87	
	21625	897.5	17.59			40740	2605	18.04			338	837.6	16.2	
	21750	910	17.4	-94.87		41140	2645	17.9	-90.58		363	842.6	15.98	-108.45
B18	23900	820	15.02		W1	9612	1922.4	15.33						
	23925	822.5	15.72			9750	1950	16.19						
	23950	825	16.25	-94.76		9888	1977.6	15.08	-110.5					
B19	24050	835	16.61		W6	4162	832.4	16.19						
	24075	837.5	16.79			4175	835	16.23						
	24100	840	16.12	-93.15		4188	837.6	16.27	-108.19					

This test report belongs to ShenZhen Deman Electronics Technology Co., Ltd and related clients to file, please keeping it properly, without our company and related clients allowed, anybody has no rights to reveal it to public.

D. Cell-Phone Photo and Dealing Method

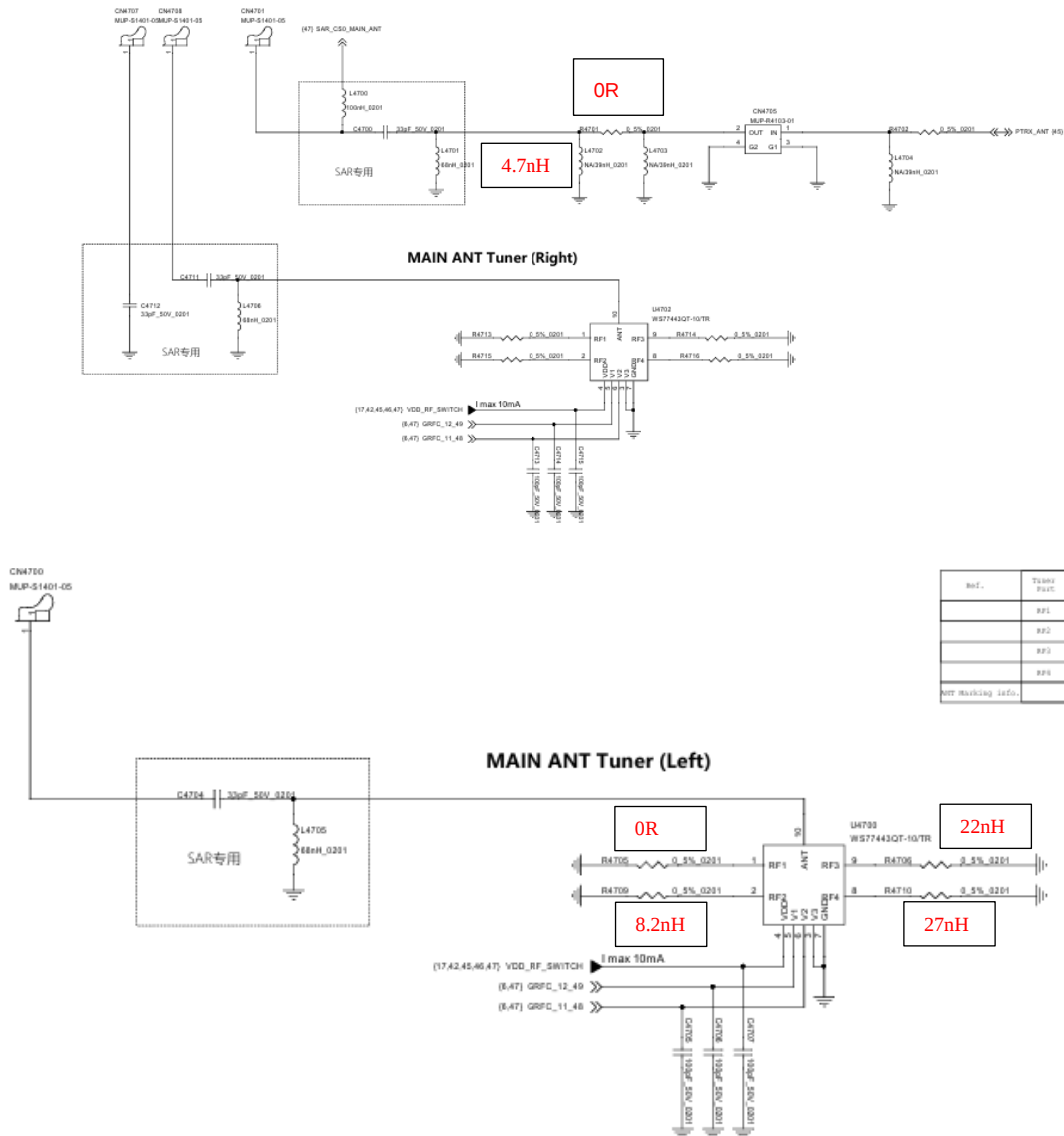


This test report belongs to ShenZhen Deman Electronics Technology Co., Ltd and related clients to file, please keeping it properly, without our company and related clients allowed, anybody has no rights to reveal it to public.

E. Matching Circuit Description

MAIN ANT

NA: 617-2655MHz
EU: 703-2655MHz



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

This test report belongs to ShenZhen Deman Electronics Technology Co., Ltd and related clients to file, please keeping it properly, without our company and related clients allowed, anybody has no rights to reveal it to public.



深圳市海德门电子有限公司

ShenZhen Deman Electronics Technology Co., Ltd

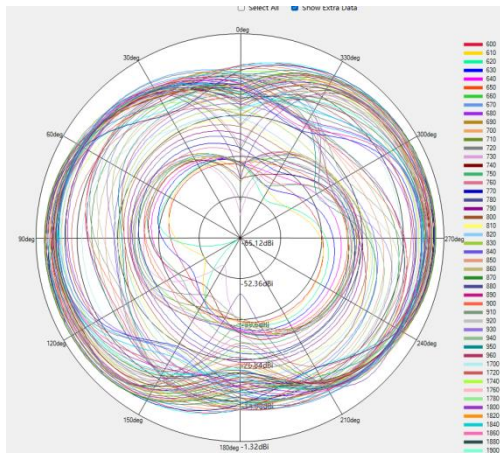
F. Efficiency test results

Frequency(MHz)	efficiency(dB)	Gain(dBi)	efficiency(%)	Frequency(MHz)	efficiency(dB)	Gain(dBi)	efficiency(%)	Frequency(MHz)	efficiency(dB)	Gain(dBi)	efficiency(%)
700	-9.9	-4.68	10.23	1700	-8.66	-4.24	13.62	2240	-7.1	-2.51	19.52
710	-9.37	-5.8	11.56	1720	-8.72	-4.31	13.41	2260	-6.89	-1.95	20.45
720	-8.69	-5.01	13.53	1740	-8.71	-4.37	13.47	2280	-6.68	-1.86	21.46
730	-8.69	-5.06	13.53	1760	-8.32	-4.02	14.71	2300	-7.17	-2.3	19.19
740	-8.71	-5.14	13.46	1780	-8.05	-3.82	15.68	2320	-7.03	-2.81	19.83
750	-8.87	-5.38	12.97	1800	-7.77	-4.08	16.7	2340	-6.88	-2.83	20.52
760	-9.36	-5.93	11.58	1820	-7.41	-3.75	18.17	2360	-6.57	-1.97	22.04
770	-9.4	-6.02	11.48	1840	-7.46	-3.8	17.96	2380	-6.54	-1.68	22.16
780	-9.57	-6.59	11.03	1860	-7.76	-4.42	16.74	2400	-6.5	-1.82	22.37
790	-9.46	-5.9	11.32	1880	-7.83	-4.97	16.5	2420	-6.38	-1.56	23.02
800	-8.8	-5.25	13.17	1900	-7.29	-4.52	18.65	2440	-6.46	-1.49	22.62
810	-8.32	-4.77	14.74	1920	-6.96	-4.18	20.12	2460	-6.72	-1.74	21.29
820	-8.06	-4.49	15.65	1940	-6.75	-4.01	21.12	2480	-6.88	-1.91	20.51
830	-7.91	-4.39	16.19	1960	-6.55	-3.75	22.14	2500	-6.53	-1.04	22.23
840	-8.22	-4.68	15.06	1980	-6.4	-3.48	22.89	2520	-6.44	-0.97	22.68
850	-8.8	-5.3	13.17	2000	-6.26	-2.91	23.64	2540	-6.19	-0.63	24.03
860	-9.33	-5.67	11.66	2020	-6.16	-2.21	24.2	2560	-6.24	-0.67	23.75
870	-9.53	-6.16	11.15	2040	-6.09	-1.58	24.62	2580	-6.19	-0.64	24.05
880	-9.48	-4.66	11.27	2060	-6.3	-1.33	23.42	2600	-6.48	-0.9	22.5
890	-9.11	-4.27	12.27	2080	-6.37	-1.07	23.05	2620	-6.47	-0.77	22.55
900	-9.07	-3.82	12.38	2100	-6.46	-0.88	22.61	2640	-6.65	-0.79	21.64
910	-7.71	-2.64	16.96	2120	-6.54	-0.7	22.17	2660	-6.69	-0.61	21.44
920	-6.77	-1.95	21.03	2140	-6.92	-0.82	20.32	2680	-6.74	-0.43	21.19
930	-6.33	-1.84	23.27	2160	-7.32	-0.81	18.53	2700	-6.94	-0.38	20.25
940	-6.21	-1.9	23.92	2180	-7.41	-0.49	18.16				
950	-6.81	-2.48	20.86	2200	-7.29	-3.36	18.68				
960	-7.87	-3.31	16.34	2220	-7.33	-2.04	18.49				

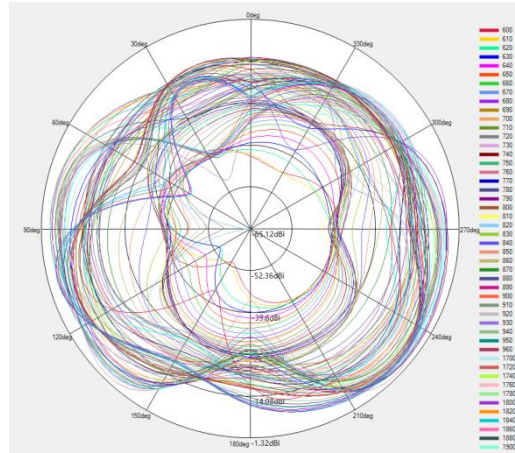
This test report belongs to ShenZhen Deman Electronics Technology Co., Ltd and related clients to file,please keeping it propely,without our company and related clients allowed,anybody has no rights to reval it to public.

G. Antenna lobe pattern

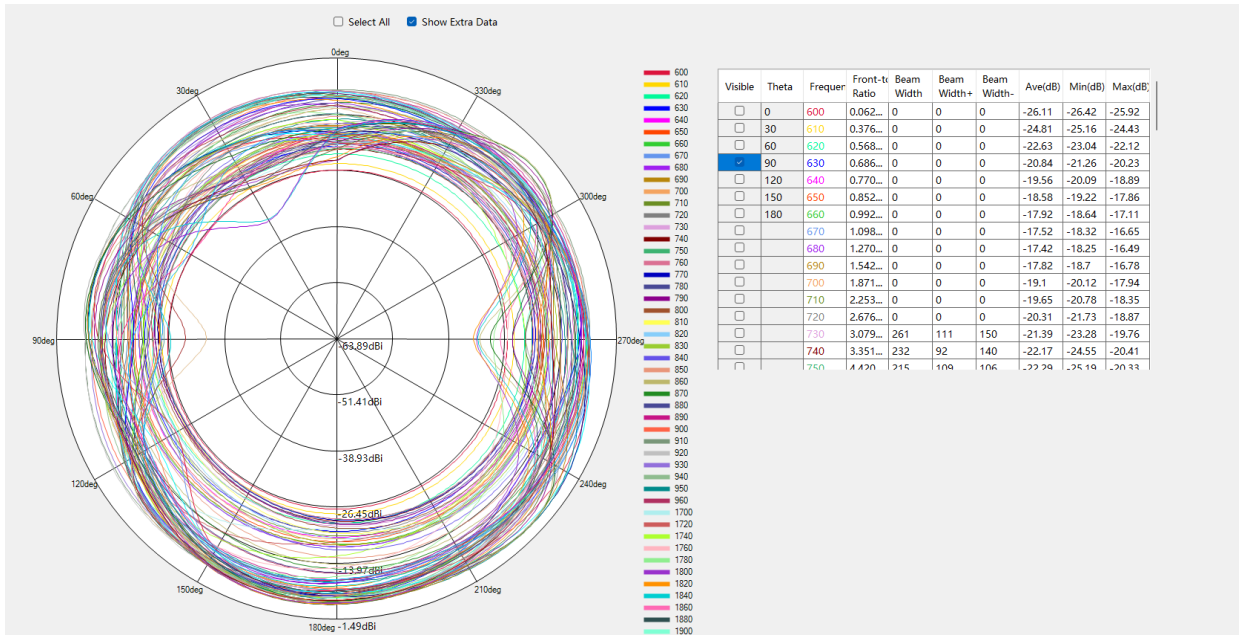
2D Direction diagram



Phi=0



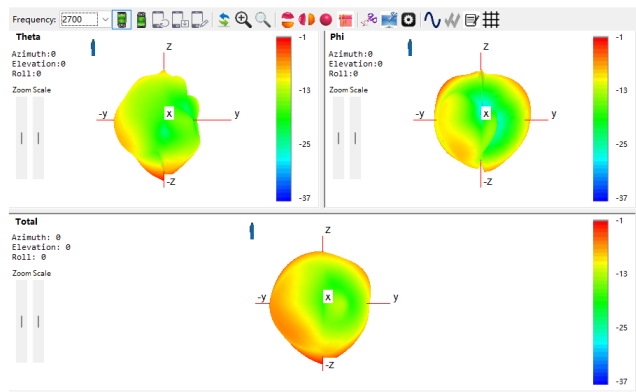
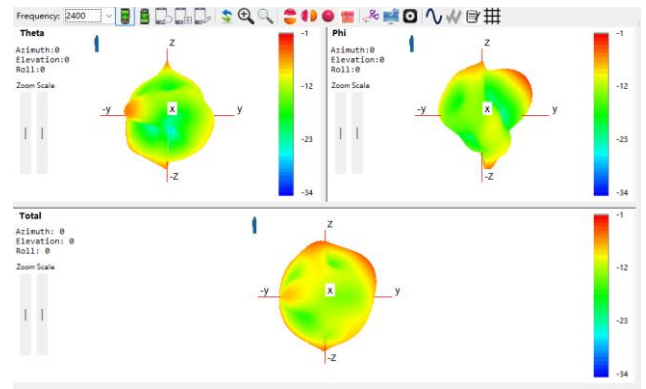
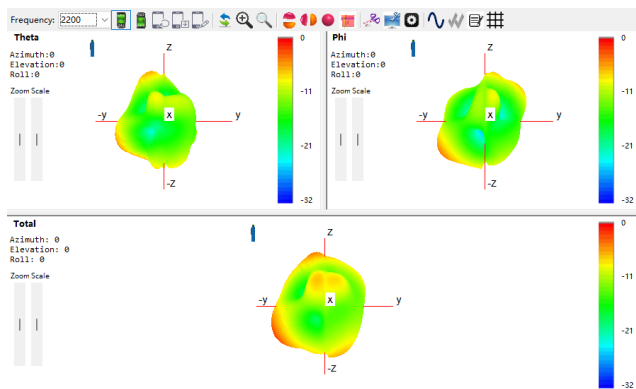
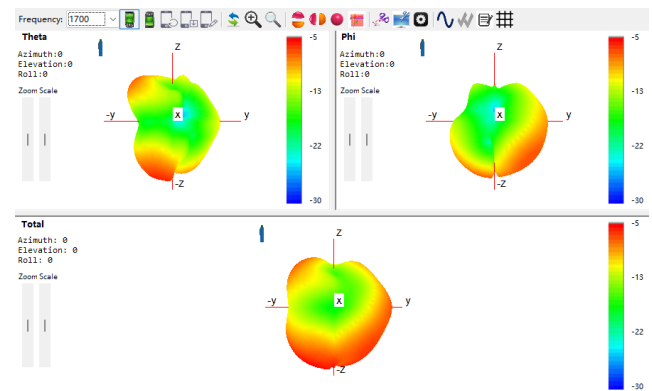
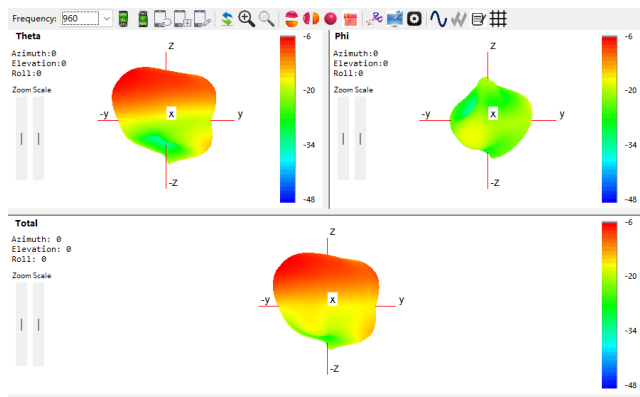
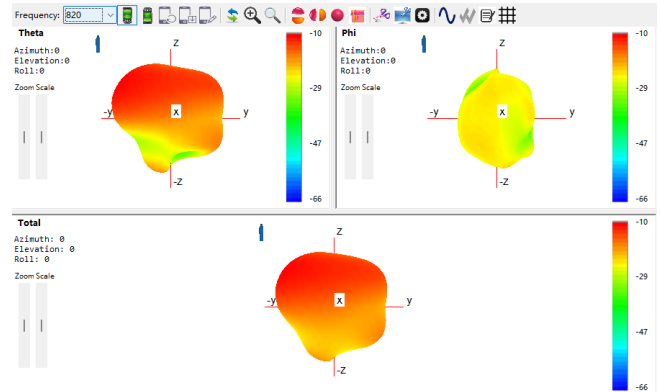
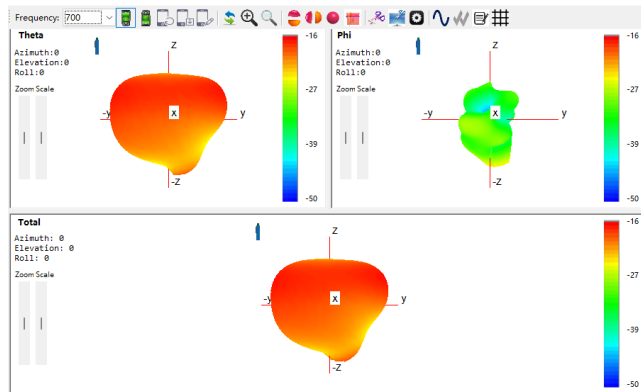
Phi=90



Theta=90

This test report belongs to ShenZhen Deman Electronics Technology Co., Ltd and related clients to file, please keeping it properly, without our company and related clients allowed, anybody has no rights to reveal it to public.

3D apple Map



This test report belongs to ShenZhen Deman Electronics Technology Co., Ltd and related clients to file, please keeping it properly, without our company and related clients allowed, anybody has no rights to reveal it to public.

H. Antenna drawing

Unit: mm

