

MT582 (M61&M61S) Antenna Report (DVT)

ANT Team

DM

2026-03-18

● 进取 ● 严谨

● 诚信 ● 感恩

MAIN(LTE) Return-Loss & Smith

Antenna Diagram:

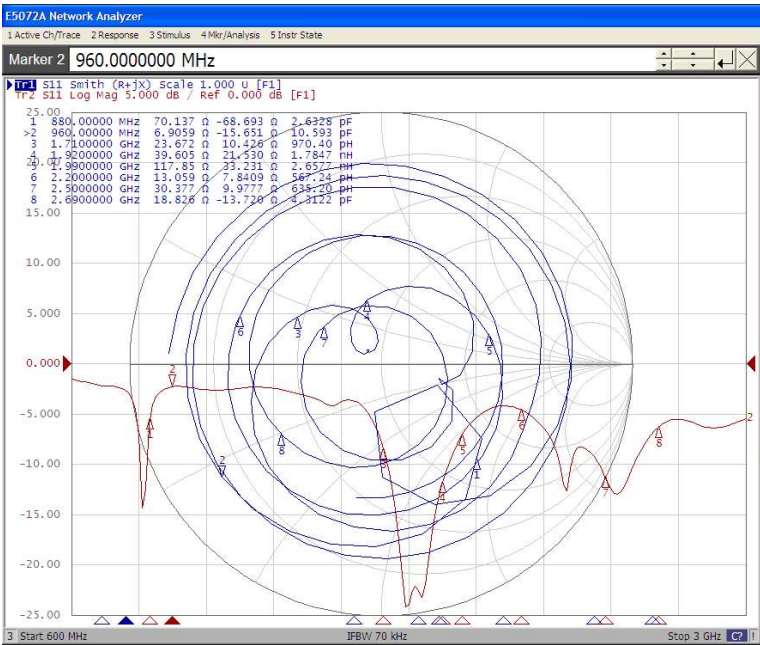
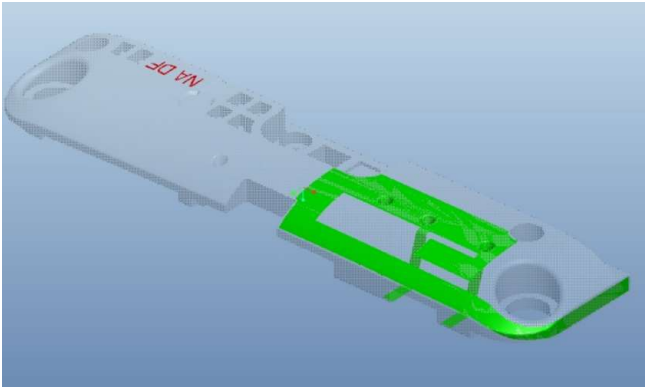
Antenna model: NA-DF

Antenna type: PIFA

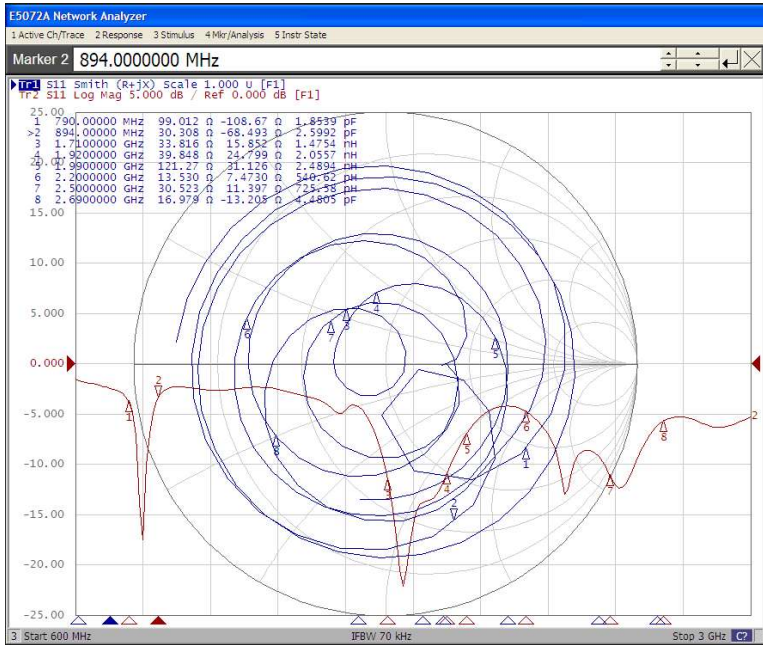
MAIN ANT



ANT 3D Pattern



B2/4/8/66

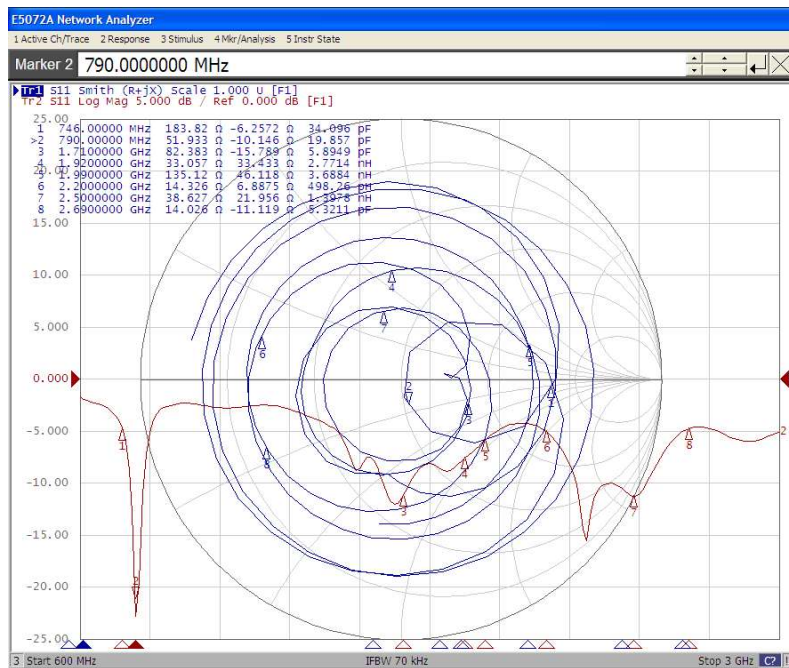


B5/20

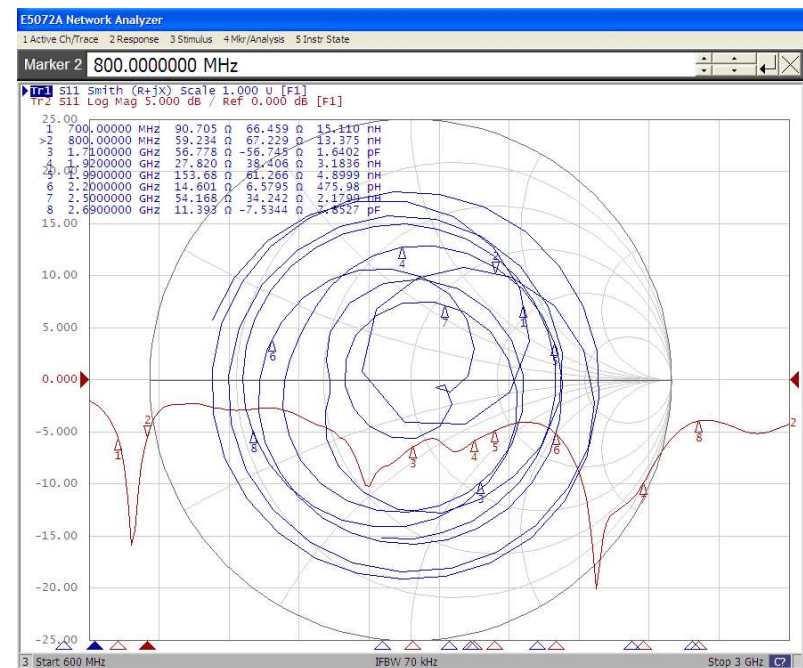
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MAIN(LTE) Return-Loss & Smith Chart



B13



B13/17/28

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MAIN (LTE) Antenna Efficiency

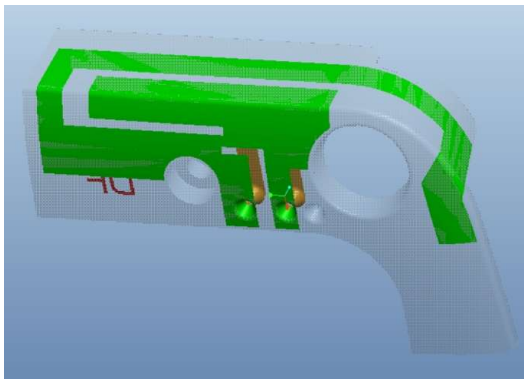
B12/17/28					B13					B5/20					B2/4/66								
Freq	Avg	Gain	Peak	Gain	Effi	Freq	Avg	Gain	Peak	Gain	Effi	Freq	Avg	Gain	Peak	Gain	Effi	Freq	Avg	Gain	Peak	Gain	Effi
700	-6.95	-4.59	20.2			700	-13.3	-9.99	4.68			700	-21.35	-17.39	0.73	1700	-5.07	-1.57	31.11				
710	-6.31	-3.73	23.38			710	-12.5	-9.09	5.62			710	-20.25	-16.21	0.94	1720	-4.49	-0.75	35.6				
720	-6.13	-3.44	24.36			720	-11.92	-8.51	6.42			720	-19.18	-15.03	1.21	1740	-3.8	0.29	41.72				
730	-6.09	-3.42	24.63			730	-11.05	-7.69	7.85			730	-17.95	-13.73	1.6	1760	-3.54	0.79	44.31				
740	-6.07	-3.85	24.74			740	-9.25	-6.3	11.88			740	-16.65	-12.53	2.16	1780	-3.55	1.18	44.13				
750	-6.11	-3.79	24.5			750	-7.2	-4.34	19.04			750	-15.14	-11.03	3.06	1800	-3.68	1.38	42.83				
760	-6.06	-3.71	24.79			760	-5.9	-2.9	25.73			760	-13.61	-9.57	4.36	1820	-4.03	1.21	39.52				
770	-6.26	-3.85	23.66			770	-5.19	-2.07	30.24			770	-11.99	-8.01	6.32	1840	-4.3	0.81	37.15				
780	-6.48	-4.21	22.49			780	-5.01	-1.75	31.57			780	-10.4	-6.47	9.11	1860	-4.56	0.55	34.97				
790	-6.53	-4.9	22.25			790	-5.44	-2.02	28.57			790	-9.03	-5.17	12.49	1880	-4.75	0.19	33.49				
800	-6.85	-5.31	20.67			800	-5.86	-2.37	25.97			800	-8	-4.18	15.86	1900	-4.58	0.04	34.86				
810	-7.11	-5.7	19.44			810	-6.42	-2.92	22.79			810	-7.19	-3.38	19.09	1920	-4.35	0.56	36.69				
820	-8.23	-6.11	15.02			820	-7.19	-3.59	19.08			820	-6.07	-2.28	24.71	1940	-4.34	0.83	36.81				
830	-8.96	-6.63	12.71			830	-8.05	-4.43	15.67			830	-5.21	-1.55	30.15	1960	-4.53	0.92	35.26				
840	-9.68	-6.98	10.77			840	-8.81	-5.11	13.14			840	-4.89	-1.42	32.42	1980	-4.59	0.99	34.75				
850	-11.11	-7.4	7.74			850	-9.65	-5.85	10.83			850	-4.99	-1.79	31.7	2000	-4.95	0.73	32				
860	-11.53	-7.71	7.02			860	-10.35	-6.47	9.23			860	-5.28	-2.18	29.66	2020	-5.16	0.57	30.47				
870	-11.95	-8.06	6.38			870	-11.01	-7.09	7.93			870	-5.98	-2.84	25.24	2040	-5.58	0.25	27.68				
880	-12.38	-8.52	5.78			880	-11.66	-7.79	6.83			880	-6.87	-3.62	20.55	2060	-6.1	-0.14	24.57				
890	-12.84	-8.99	5.2			890	-12.32	-8.52	5.86			890	-7.87	-4.59	16.32	2080	-6.2	-0.18	23.97				
900	-13.15	-9.3	4.85			900	-12.81	-9.05	5.24			900	-8.96	-5.59	12.7	2100	-6.56	-0.58	22.09				
910	-13.46	-9.55	4.51			910	-13.27	-9.45	4.71			910	-10.05	-6.64	9.88	2120	-6.76	-0.8	21.08				
920	-13.78	-9.95	4.19			920	-13.75	-9.91	4.22			920	-10.97	-7.54	7.99	2140	-6.89	-1.11	20.46				
930	-14.13	-10.3	3.87			930	-14.24	-10.41	3.77			930	-11.84	-8.25	6.55	2160	-6.99	-1.44	20.01				
940	-14.38	-10.6	3.65			940	-14.62	-10.85	3.45			940	-12.66	-9.12	5.41	2180	-7.03	-1.62	19.82				
950	-14.59	-11.7	3.48			950	-15.42	-12.33	2.87			950	-13.47	-9.98	4.49	2200	-7.11	-1.91	19.43				
960	-16.12	-13.12	2.45			960	-16.85	-13.94	2.07			960	-14.15	-10.6	3.85								

DIV(LTE) Return-Loss & Smith

Antenna Diagram :
DIV ANT

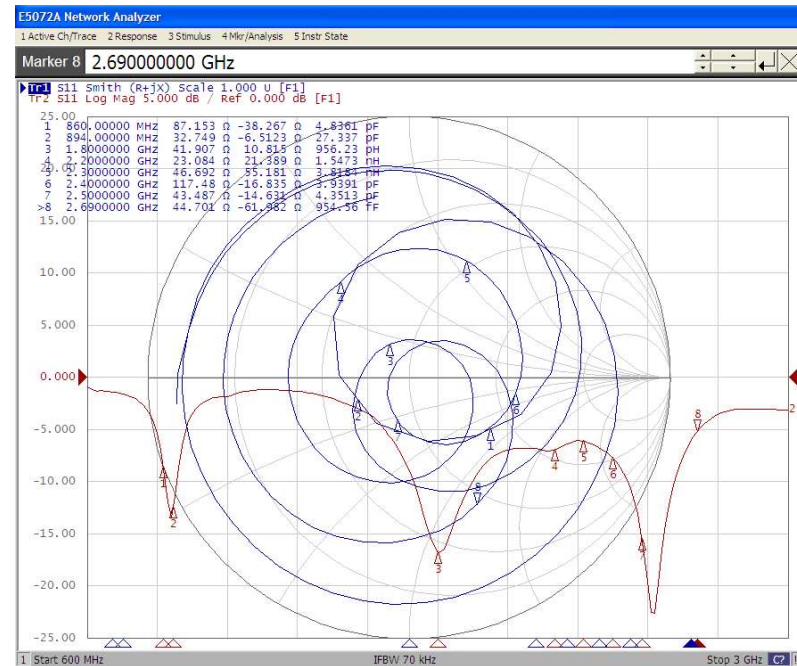


DIV ANT 3D Pattern



Antenna model: DF

Antenna type: PIFA

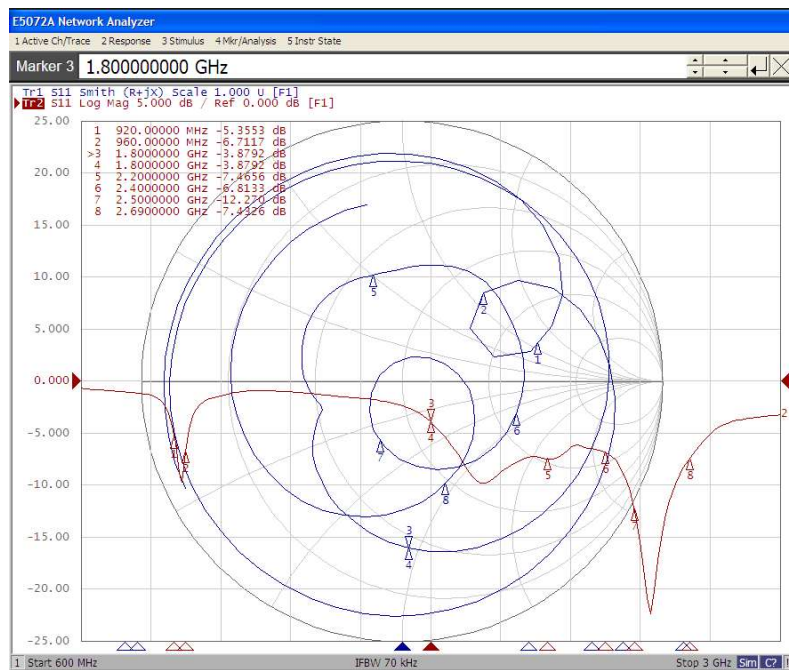


B1/2/3/4/5/7/20/41/66

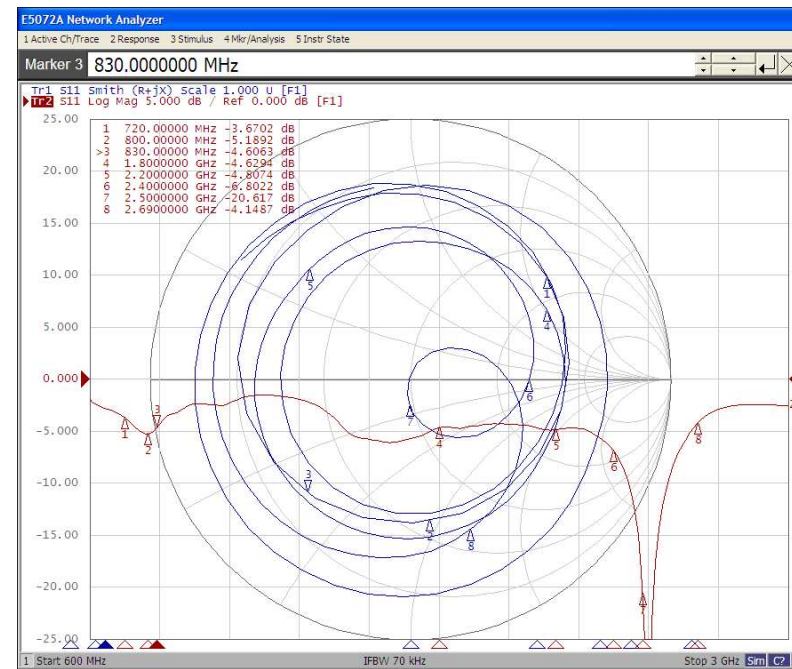
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DIV(LTE) Return-Loss & Smith



B8



B12/13/17/28

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DIV(LTE) Antenna Efficiency

B12/13//17//20/28					B5/20					B8					B1/2/3/4/7/41/66					B1/2/3/4/7/8/41/66				
Freq	Avg Gain	Peak Gain	Effi		Freq	Avg Gain	Peak Gain	Effi		Freq	Avg Gain	Peak Gain	Effi		Freq	Avg Gain	Peak Gain	Effi		Freq	Avg Gain	Peak Gain	Effi	
700	-9.13	-6.11	12.22		700	-16.47	-13.83	2.26		700	-24.07	-21.19	0.39		1700	-12.29	-8.45	5.9		2240	-5.61	-1.39	27.49	
710	-8.77	-5.66	13.26		710	-16.08	-13.35	2.47		710	-23.61	-20.69	0.44		1720	-11.3	-7.47	7.41		2260	-5.62	-1.12	27.4	
720	-8.53	-5.4	14.03		720	-15.72	-12.9	2.68		720	-23.21	-20.32	0.48		1740	-10.37	-6.98	9.18		2280	-5.67	-1.17	27.09	
730	-8.31	-5.12	14.76		730	-15.35	-12.46	2.92		730	-22.86	-19.94	0.52		1760	-9.37	-5.98	11.55		2300	-5.73	-1.59	26.76	
740	-8.19	-4.98	15.15		740	-14.96	-11.93	3.19		740	-22.49	-19.62	0.56		1780	-8.65	-5.06	13.64		2320	-6.05	-2.34	24.83	
750	-8.05	-4.84	15.65		750	-14.5	-11.42	3.55		750	-22.04	-19.17	0.63		1800	-7.98	-3.86	15.91		2340	-6.09	-2.27	24.58	
760	-7.89	-4.67	16.25		760	-13.99	-10.77	3.99		760	-21.58	-18.57	0.7		1820	-7.6	-3.12	17.39		2360	-5.92	-2.01	25.6	
770	-7.65	-4.27	17.18		770	-13.42	-10.24	4.55		770	-21.08	-18.12	0.78		1840	-7.16	-2.91	19.22		2380	-5.87	-1.67	25.88	
780	-7.37	-3.97	18.34		780	-12.69	-9.47	5.38		780	-20.49	-17.49	0.89		1860	-6.73	-3.19	21.24		2400	-5.38	-0.91	28.95	
790	-7.2	-3.76	19.04		790	-11.81	-8.57	6.59		790	-19.75	-16.77	1.06		1880	-6.65	-3.55	21.64		2420	-5.15	-0.51	30.54	
800	-7.23	-3.79	18.92		800	-10.97	-7.7	7.99		800	-18.98	-15.94	1.26		1900	-6.08	-2.9	24.64		2440	-4.82	-0.14	32.95	
810	-7.49	-4.06	17.82		810	-10.4	-7.05	9.13		810	-18.43	-15.33	1.43		1920	-5.52	-2.18	28.05		2460	-4.54	0.08	35.13	
820	-7.43	-3.95	18.08		820	-9.5	-6.16	11.23		820	-17.6	-14.48	1.74		1940	-5.38	-1.9	28.99		2480	-4.19	0.39	38.08	
830	-7.43	-3.9	18.06		830	-8.53	-5.2	14.04		830	-16.65	-13.5	2.16		1960	-5.42	-1.87	28.73		2500	-4	0.81	39.83	
840	-7.48	-3.82	17.85		840	-7.59	-4.03	17.4		840	-15.64	-12.45	2.73		1980	-5.4	-1.72	28.82		2520	-3.39	1.38	45.79	
850	-7.57	-3.87	17.51		850	-6.72	-3.03	21.26		850	-14.67	-11.48	3.41		2000	-5.5	-1.82	28.18		2540	-3.16	1.66	48.34	
860	-7.65	-3.93	17.18		860	-5.79	-2.68	26.38		860	-13.56	-10.14	4.41		2020	-5.65	-1.97	27.24		2560	-3.01	1.9	50.02	
870	-7.84	-3.99	16.45		870	-5.05	-2.51	31.25		870	-12.29	-8.78	5.9		2040	-6.04	-2.32	24.9		2580	-2.86	2.19	51.74	
880	-8.13	-4.11	15.39		880	-4.67	-1.71	34.15		880	-10.96	-8.45	8.01		2060	-6.34	-2.51	23.25		2600	-3.13	2.12	48.59	
890	-8.14	-3.81	15.36		890	-4.46	-1.58	35.82		890	-9.72	-7.09	10.66		2080	-6.27	-2.5	23.6		2620	-3.52	1.77	44.42	
900	-7.86	-3.89	16.36		900	-4.5	-1.54	35.45		900	-8.59	-5.62	13.82		2100	-6.45	-2.83	22.67		2640	-3.79	1.39	41.83	
910	-7.53	-5.01	17.68		910	-4.69	-1.7	33.96		910	-7.38	-4.53	18.27		2120	-6.67	-3.24	21.53		2660	-4.07	0.86	39.13	
920	-7.84	-4.77	16.44		920	-5.1	-2.04	30.89		920	-6.19	-3.29	24.07		2140	-6.57	-2.86	22.03		2680	-4.15	0.45	38.46	
930	-8.4	-5.24	14.45		930	-5.62	-2.6	27.39		930	-5.03	-2.08	31.38		2160	-6.47	-2.73	22.53		2700	-4.38	0.31	36.48	
940	-8.88	-5.7	12.94		940	-6.25	-3.1	23.69		940	-4.34	-1.35	36.82		2180	-6.35	-3.1	23.16						
950	-9.18	-5.81	12.07		950	-6.8	-3.44	20.91		950	-4.26	-1.19	37.48		2200	-6.12	-2.58	24.42						
960	-9.64	-6.16	10.85		960	-7.53	-3.89	17.66		960	-4.97	-1.54	31.86		2220	-5.92	-1.96	25.61						

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GPS/WIFI Return-Loss & Smith Chart

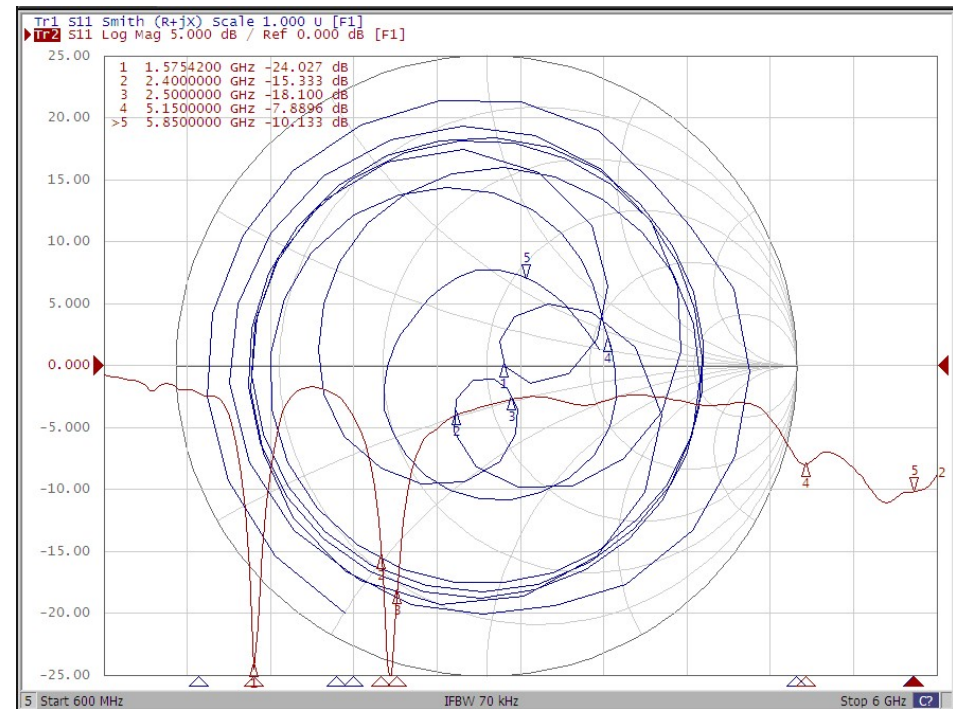
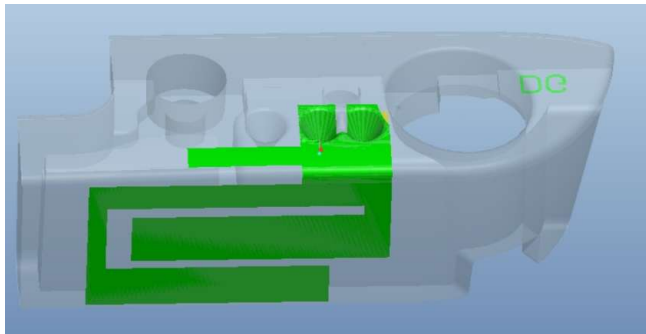
Antenna Diagram :
GPS/WIFI ANT



Antenna model: DG

Antenna type: PIFA

GPS/WIFI ANT 3D Pattern



GPS/2.4G/5GWIFI

GPS/WIFI Antenna Efficiency

GPS			
Freq	Avg Gain	Peak Gain	Effi
1555	-4.69	-0.61	33.93
1560	-4.57	-0.45	34.94
1565	-4.44	-0.27	36.01
1570	-4.32	-0.14	36.94
1575	-4.16	0.04	38.37
1580	-4.02	0.26	39.63
1585	-3.86	0.54	41.11
1590	-3.72	0.75	42.48
1595	-3.6	0.89	43.61

2.4G WIFI			
Freq	Avg Gain	Peak Gain	Effi
2400	-4.86	-0.78	32.69
2410	-4.81	-0.77	33.03
2420	-4.87	-0.8	32.62
2430	-4.83	-0.55	32.89
2440	-4.82	-0.77	32.98
2450	-4.86	-0.99	32.63
2460	-4.76	-1.02	33.43
2470	-4.68	-1.01	34.01
2480	-4.7	-0.98	33.85
2490	-4.76	-0.99	33.44
2500	-4.9	-1.16	32.39

5.8G WIFI			
Freq	Avg Gain	Peak Gain	Effi
5100	-5.89	-1.1	25.76
5150	-5.86	-1.01	25.93
5200	-5.83	-0.9	26.1
5250	-5.8	-0.84	26.29
5300	-5.68	-0.68	27.05
5350	-5.58	-0.49	27.67
5400	-5.49	-0.32	28.23
5450	-5.45	-0.26	28.5
5500	-5.43	-0.24	28.65
5550	-5.42	-0.22	28.74
5600	-5.4	-0.15	28.85
5650	-5.42	-0.09	28.71
5700	-5.47	-0.08	28.38
5750	-5.55	-0.11	27.89
5800	-5.59	-0.09	27.59
5850	-5.6	-0.01	27.57
5900	-5.61	0.04	27.47

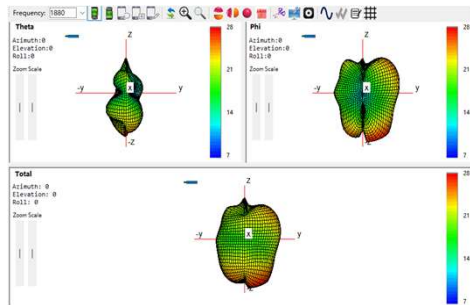
MAIN (LTE) 3D Report TRP/TIS

Replace B13 Duplexer

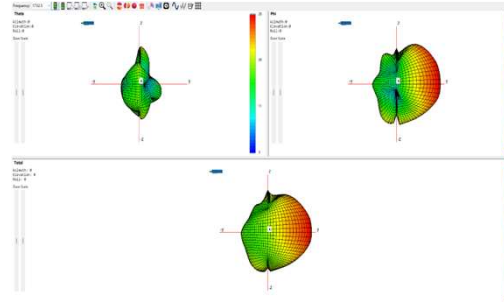
Battery Not Grounded									
Band	Channel	Freq	TRP	TIS	Band	Channel	Freq	TRP	TIS
B2	18650	1855	20.3		B13				
	18900	1880	20.68			23230	782	18.6	-94
	19150	1905	20.92	-97.09					
B4	20000	1715	20.3		B17	23780	709	18.49	
	20175	1732.5	20.27			23790	710	18.54	
	20350	1750	20.24	-94.29		23800	711	18.41	-92.54
B5	20450	829	19.15		B66	132022	1715	20.21	
	20525	836.5	19.6			132322	1745	20.8	
	20600	844	19.21	-94.56		132622	1775	20.21	-95.32
B12	23060	704	18.12						
	23095	707.5	18.53						
	23130	711	18.31	-92.57					

MAIN(LTE) Antenna 3D Radiation Pattern

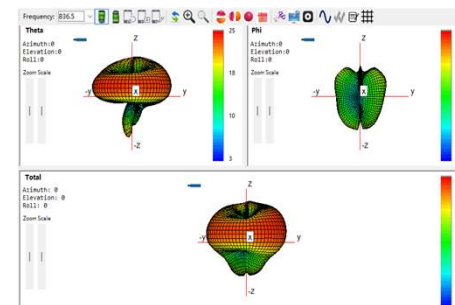
B2



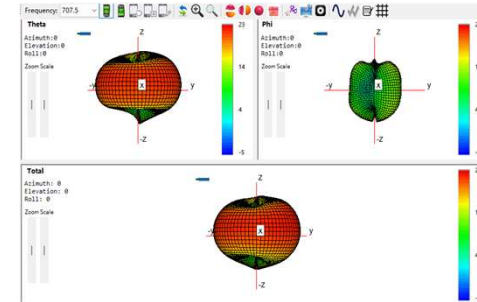
B4



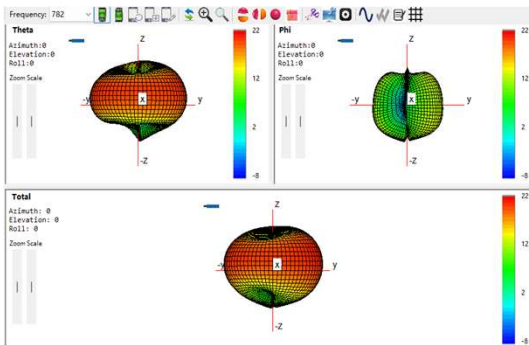
B5



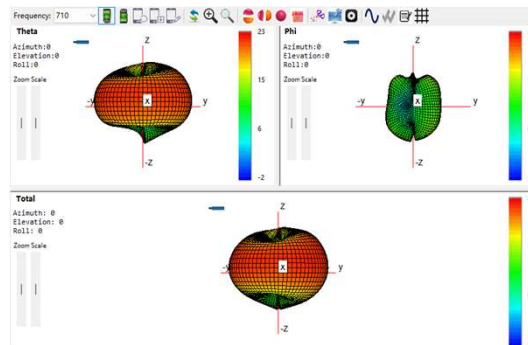
B12



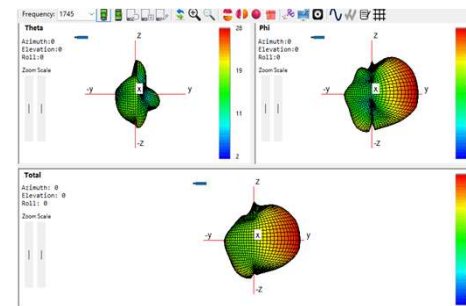
B13



B17



B66



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WIFI 3D Report TRP/TIS

Band	Channel	Freq	TRP	TIS
11B TX11 RX11	1	2412	15.14	
	7	2442	15.31	
	11	2462	15.58	-84.53
11a TX6 RX54	36	5180	12.83	
	64	5320	13.29	
	165	5825	13.68	-70.22
GPS	1	1575.42	40	
	1	1575.42		-155
	上半球	1575.42		-150.65



上海德门电子科技有限公司 Shanghai Deman Electronics Technology Co., Ltd.

电话: +86 21 64909006

传真: +86 21 64909816

网址: www.deman-china.com

地址: 上海市闵行区颛桥镇瓶安路1259号3号厂房 (总部)
深圳市龙华新区观澜镇顺络电子工业园3栋 (制造中心)