

T2 Antenna Test

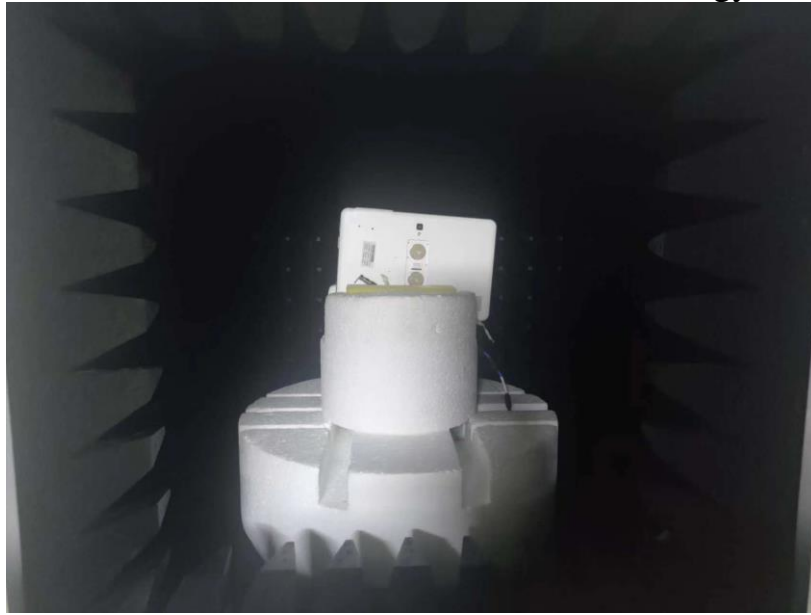
Report

1. TEST INSTRUMENTATION

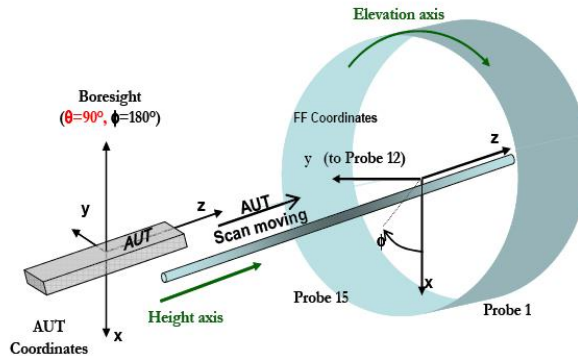
CHAMBER	SATIMO Chamber
Wireless Networking Test Set	General Test Rzi 1800
NETWORK ANALYZER	Agilent 5072AD
COMPREHENSIVE TESTER	R&S CMW500
TEMPERATURE	25±2℃
HUMIDITY	50±20%rh



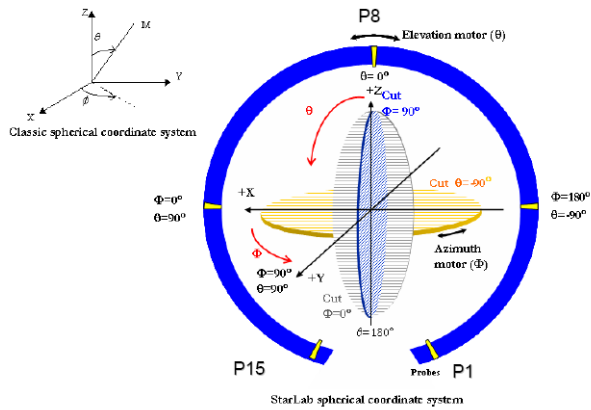
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Coordinate system – Cylindrical geometry



Coordinate system – Spherical geometry



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2. ANTENNA TRP &TIS

TRP: total radiated power &TIS: total isotropic sensitivity

Band	Channel	TRP	Channel	TIS	Band	Channel	TRP	Channel	TIS
B1	18050	16.22			B28	27260	16.02		
	18300	16.11				27435	15.97		
	18550	16.09	550	-95.91		27610	15.83	9610	-88.7
B2	18650	18.52			B38	37850	20.54		
	18900	18.67				38000	20.84		
	19150	19.21	1150	-91.23		38150	20.46	38150	-90.05
B3	19250	17.15			B40	38750	15.27		
	19575	17.77				39150	17.69		
	19900	17.38	1900	-92.44		39550	17.89	39550	-93.28
B4	20000	18			B41	40340	19.96		
	20175	18.29				40620	20.76		
	20350	18.52	2350	-92.57		41140	19.57	41140	-90.77
B5	20450	18.95			B66	132022	18.03		
	20525	18.58				132322	18.57		
	20600	18.36	2600	-92.26		132622	18.57	67086	-90.67
B7	20850	20.36			B71	133172	14.63		
	21100	20.5				133297	15.29		
	21350	20.57	3350	-92.86		133422	14.87	68886	-87.98
B8	21500	19.31			GSM850	128	26.53		
	21625	19.16				190	27.35		
	21750	19.78	3750	-89.31		251	27.89	251	-104.12
B12	23035	14.87			GSM900	975	24.2		
	23095	15.05				38	25.26		
	23155	15.04	5155	-91.72		124	26.71	124	-104.77
B13					GSM1900	512	26.52		
	23230	16.17	5230	-90.57		661	26.31		
						810	26.6	810	-105.05
B14					GSM1900	512	25.45		
	23330	16.59	5330	-92.32		661	25.26		
						810	25.25	810	-103.19
B17	23780	15.02			W1	9612	18.66		
	23790	15.05				9750	18.6		
	23800	15.02	5800	-90.27		9888	18.67	10838	-109.85
	24200	18.23			W2	9262	19.48		

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B20	24300	18.04				9400	19.38		
	24400	18.62	6400	-92.78		9538	19.93	9938	-110.12
B25	26090	18.32			W4	1312	19.16		
	26365	18.53				1413	19.43		
	26640	19.01	8640	-90.05		1513	19.65	1738	-106.22
B26	26740	18.49			W5	4132	19.24		
	26865	18.16				4183	19.59		
	26990	18.05	8990	-92.27		4233	19.83	4458	-103.2
					W8	9612	18.66		
						9750	18.6		
						9888	18.67	2937	-105.82

2.1 Model: T2_Main_ANTENNA

Maximum Gain: 1.51dBi

T2_Main_ANTENNA S11

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Efficiency test results

RF1: 0 Ω				RF2: 4.7NH				RF3 15NH			
Frequency	Efficiency (dB)	Gain (dBi)	Efficiency (%)	Frequency	Efficiency (dB)	Gain (dBi)	Efficiency (%)	Frequency	Efficiency (dB)	Gain (dBi)	Efficiency (%)
650	-21.92	-18.57	0.64	650	-17.9	-14.27	1.62	650	-11.81	-8.62	6.59
660	-21.41	-18.03	0.72	660	-17.03	-13.43	1.98	660	-10.94	-7.83	8.05
670	-20.83	-17.45	0.83	670	-16.16	-12.88	2.42	670	-10.34	-7.35	9.25
680	-20.11	-16.68	0.98	680	-15.25	-11.95	2.99	680	-9.71	-6.75	10.69
690	-19.45	-15.97	1.13	690	-14.41	-11.09	3.62	690	-9.07	-6	12.4
700	-18.71	-15.06	1.35	700	-13.51	-10.28	4.46	700	-8.42	-5.33	14.38
710	-18.07	-14.4	1.56	710	-12.72	-9.41	5.35	710	-7.97	-4.98	15.97
720	-17.43	-13.7	1.81	720	-11.93	-8.74	6.42	720	-7.6	-4.63	17.39
730	-16.75	-12.96	2.11	730	-11.2	-8.06	7.59	730	-7.3	-4.35	18.61
740	-16.21	-12.39	2.39	740	-10.55	-7.4	8.81	740	-7.03	-4	19.8
750	-15.43	-11.61	2.86	750	-9.76	-6.53	10.58	750	-6.85	-3.77	20.65
760	-14.56	-10.57	3.5	760	-8.97	-5.66	12.68	760	-6.65	-3.56	21.64
770	-13.74	-9.74	4.23	770	-8.23	-4.9	15.03	770	-6.44	-3.36	22.7
780	-12.83	-8.65	5.22	780	-7.48	-4	17.87	780	-6.24	-3.1	23.78

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790	-12.03	-7.84	6.27	790	-6.79	-3.33	20.95	790	-6.05	-3.06	24.84
800	-11.08	-6.7	7.79	800	-6.04	-2.47	24.9	800	-5.95	-2.83	25.42
810	-10.16	-5.89	9.64	810	-5.52	-2.06	28.08	810	-6.01	-3.04	25.09
820	-9.32	-5.18	11.7	820	-5.23	-1.83	29.98	820	-6.16	-3.24	24.21
830	-8.1	-4.12	15.5	830	-4.8	-1.51	33.09	830	-6.06	-3.23	24.8
840	-7.08	-3.28	19.61	840	-4.65	-1.46	34.27	840	-6.07	-3.33	24.73
850	-6.16	-2.54	24.23	850	-4.61	-1.52	34.63	850	-6.07	-3.36	24.73
860	-5.74	-2.01	26.7	860	-4.89	-1.63	32.46	860	-6.25	-3.26	23.7
870	-5.51	-2.15	28.1	870	-5.16	-1.63	30.46	870	-6.36	-3.13	23.12
880	-5.62	-1.99	27.42	880	-5.62	-1.99	27.43	880	-6.65	-3.26	21.63
890	-6.05	-2.17	24.81	890	-6.13	-2.4	24.4	890	-6.96	-3.45	20.16
900	-6.54	-2.38	22.17	900	-6.56	-2.64	22.09	900	-7.19	-3.44	19.09
910	-7.04	-2.71	19.76	910	-6.93	-2.93	20.26	910	-7.36	-3.37	18.37
920	-7.44	-2.85	18.04	920	-7.22	-3.2	18.98	920	-7.43	-3.28	18.09
930	-7.87	-3.05	16.34	930	-7.59	-3.41	17.42	930	-7.57	-3.28	17.49
940	-8.18	-3.2	15.21	940	-7.93	-3.63	16.09	940	-7.73	-3.28	16.86
950	-8.36	-3.39	14.58	950	-8.31	-4.04	14.77	950	-7.91	-3.41	16.16
960	-8.39	-3.47	14.5	960	-8.54	-4.28	14	960	-8.05	-3.42	15.67
1700	-11.55	-4.99	7.01	1700	-9.36	-3.93	11.59	1700	-4.16	1.8	38.35
1720	-10.9	-4.15	8.13	1720	-8.81	-3.27	13.14	1720	-4.69	1.33	33.93
1740	-10.56	-3.61	8.8	1740	-8.45	-2.74	14.28	1740	-5.04	1.08	31.33
1760	-9.69	-2.35	10.73	1760	-7.58	-1.56	17.44	1760	-5.53	0.55	27.99
1780	-9.23	-1.64	11.93	1780	-7.17	-0.83	19.2	1780	-5.7	0.32	26.9
1800	-8.62	-1.06	13.73	1800	-6.43	0.11	22.77	1800	-5.71	0.41	26.87
1820	-8.25	-0.57	14.95	1820	-6.08	0.61	24.66	1820	-5.56	0.58	27.8
1840	-8.01	-0.25	15.81	1840	-6.01	0.66	25.06	1840	-5.49	0.59	28.22
1860	-8.07	-0.58	15.61	1860	-6.41	0.1	22.86	1860	-5.59	0.28	27.57
1880	-8.34	-1.21	14.64	1880	-7.08	-0.83	19.57	1880	-5.34	0.38	29.25
1900	-8.5	-1.96	14.14	1900	-7.68	-1.82	17.05	1900	-5.4	0.11	28.85
1920	-8.27	-2.38	14.91	1920	-7.89	-2.36	16.26	1920	-5.32	-0.03	29.38
1940	-8.18	-3.08	15.19	1940	-8.02	-2.88	15.77	1940	-5.35	-0.27	29.15
1960	-8.01	-2.89	15.82	1960	-7.97	-2.33	15.98	1960	-5.46	-0.49	28.45
1980	-7.52	-2.36	17.71	1980	-7.57	-1.57	17.52	1980	-5.18	-0.34	30.33
2000	-7.33	-1.73	18.5	2000	-7.41	-0.83	18.14	2000	-4.98	-0.14	31.75
2020	-7.2	-1.07	19.05	2020	-7.42	-0.49	18.13	2020	-5.13	-0.31	30.7
2040	-7.09	-0.81	19.54	2040	-7.36	-0.27	18.39	2040	-5.53	-1.6	27.96
2060	-7.04	-0.73	19.77	2060	-7.56	-0.56	17.56	2060	-5.77	-2.03	26.51
2080	-6.63	-0.34	21.72	2080	-7.45	-0.88	17.99	2080	-6.04	-2.35	24.86
2100	-6.41	-0.28	22.85	2100	-7.55	-1.53	17.59	2100	-6.33	-2.73	23.31
2120	-6.45	-0.32	22.66	2120	-7.79	-2.23	16.62	2120	-6.43	-2.72	22.78
2140	-5.97	0.05	25.31	2140	-7.42	-2.23	18.1	2140	-6.67	-2.94	21.54

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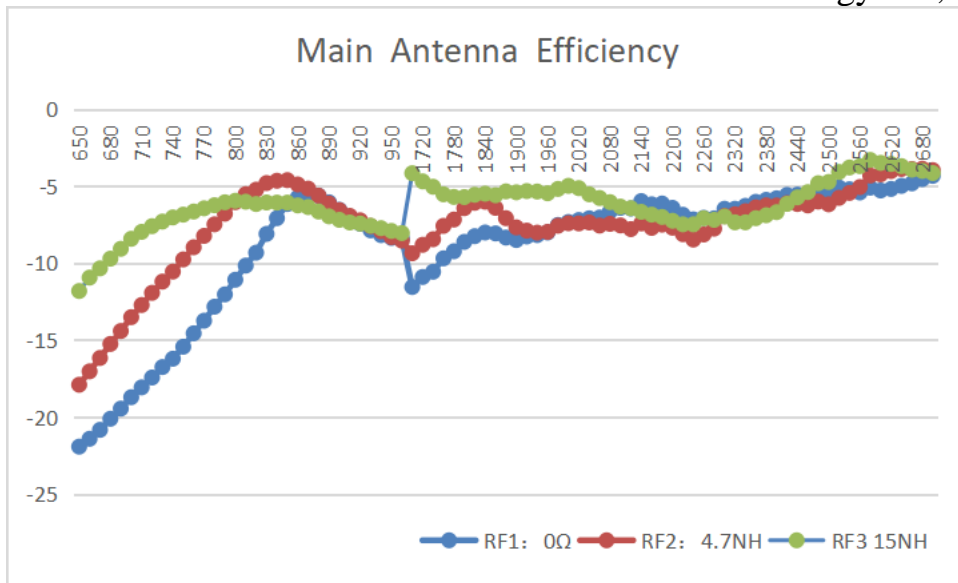


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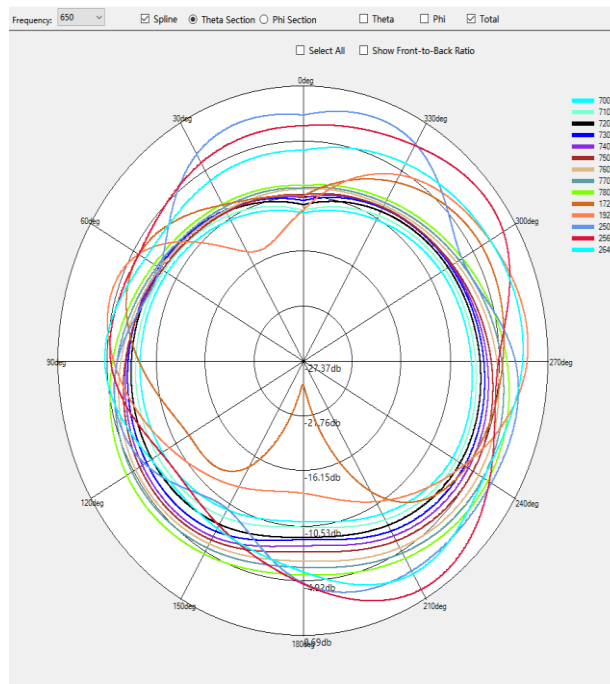
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2160	-6.18	-0.01	24.1	2160	-7.71	-2.66	16.93	2160	-6.85	-3.05	20.63
2180	-6.13	0.13	24.35	2180	-7.5	-2.39	17.77	2180	-7	-3.12	19.94
2200	-6.41	-0.07	22.85	2200	-7.7	-2.44	16.98	2200	-7.25	-3.38	18.83
2220	-6.86	-0.48	20.63	2220	-8.12	-2.7	15.4	2220	-7.48	-3.86	17.85
2240	-7.16	-0.85	19.24	2240	-8.47	-3.16	14.23	2240	-7.48	-2.19	17.87
2260	-7.06	-1.16	19.66	2260	-8.14	-3.27	15.34	2260	-7.09	-1.58	19.52
2280	-7.09	-1.54	19.52	2280	-7.76	-2.88	16.74	2280	-7.19	-1.5	19.11
2300	-6.47	-1.2	22.54	2300	-6.94	-2.06	20.25	2300	-6.97	-1.46	20.08
2320	-6.47	-1.47	22.54	2320	-6.83	-1.9	20.77	2320	-7.35	-1.64	18.4
2340	-6.28	-1.5	23.52	2340	-6.63	-1.81	21.71	2340	-7.35	-1.44	18.41
2360	-6.02	-1.35	24.98	2360	-6.38	-1.61	23.04	2360	-7.08	-1.14	19.59
2380	-5.89	-1.26	25.79	2380	-6.25	-1.47	23.7	2380	-6.89	-1.12	20.45
2400	-5.79	-0.85	26.36	2400	-6.26	-1.23	23.68	2400	-6.69	-1.36	21.43
2420	-5.57	-0.2	27.72	2420	-6.11	-0.83	24.51	2420	-6.15	-0.11	24.29
2440	-5.55	0.21	27.88	2440	-6.16	-0.57	24.21	2440	-5.73	0.7	26.74
2460	-5.61	0.36	27.51	2460	-6.25	-0.52	23.7	2460	-5.39	1.12	28.9
2480	-5.32	0.62	29.36	2480	-6	-0.49	25.1	2480	-4.81	1.53	33.04
2500	-5.43	0.55	28.62	2500	-6.18	-0.91	24.08	2500	-4.73	1.35	33.67
2520	-5.09	0.7	30.99	2520	-5.76	-0.46	26.54	2520	-4.08	1.51	39.05
2540	-5.2	0.5	30.23	2540	-5.44	-0.15	28.6	2540	-3.79	1.41	41.77
2560	-5.41	0.61	28.79	2560	-5.06	-0.21	31.21	2560	-3.7	1.1	42.68
2580	-5.1	1.2	30.9	2580	-4.31	0.32	37.04	2580	-3.3	0.81	46.74
2600	-5.28	1.08	29.68	2600	-4.23	0.48	37.75	2600	-3.49	0.36	44.75
2620	-5.18	0.91	30.32	2620	-4.02	0.86	39.59	2620	-3.56	0.69	44.09
2640	-4.98	0.88	31.8	2640	-3.88	1.03	40.97	2640	-3.7	1.05	42.66
2660	-4.82	0.9	32.98	2660	-3.89	0.72	40.79	2660	-3.93	1.26	40.49
2680	-4.54	1.08	35.19	2680	-3.87	0.73	41.06	2680	-4.01	1.3	39.73
2700	-4.33	0.96	36.87	2700	-3.96	1.08	40.18	2700	-4.15	1.23	38.5

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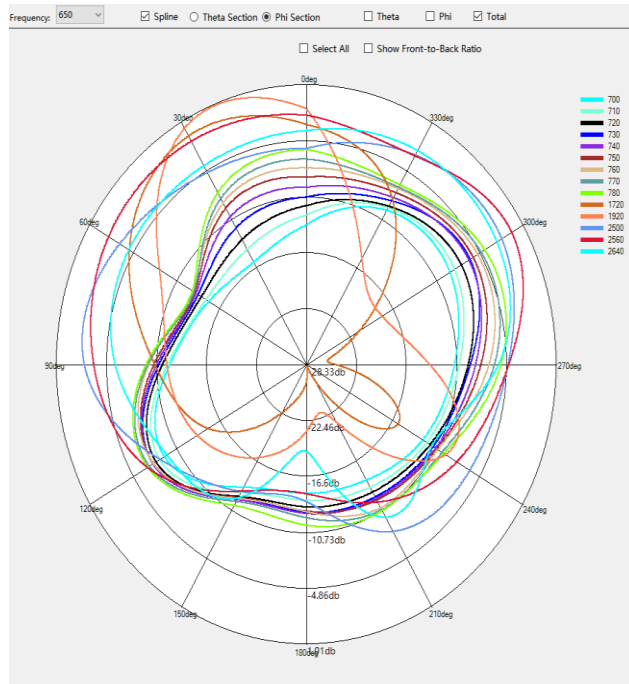


1D view:

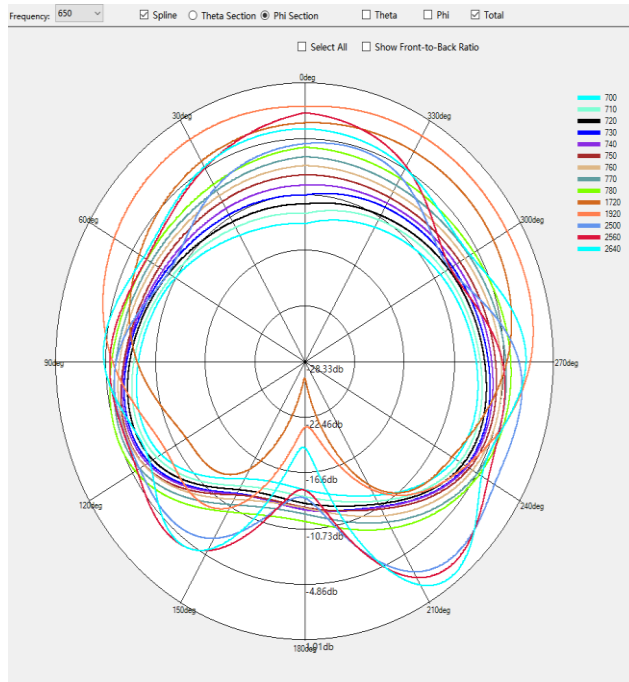


Theta = 90

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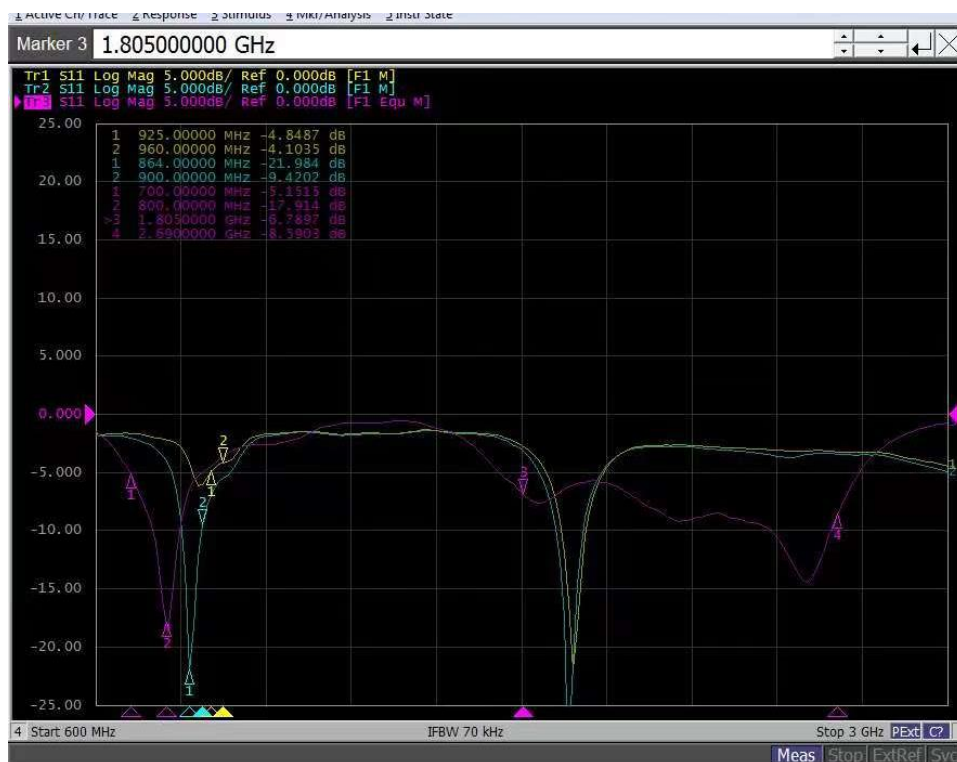
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2.2 Model: T2_DIVERSITY_ANTENNA

Maximum Gain: 1.65dBi

T2_DIVERSITY_ANTENNA S11



E. Efficiency test results

RF1: 15pF				RF2: 0 Ω				RF3: 7.5nH			
Frequen- cy	Efficien- cy (dB)	Efficien- cy (%)	Gain (dBi)	Frequen- cy	Efficien- cy (dB)	Efficien- cy (%)	Gain (dBi)	Frequen- cy	Efficien- cy (dB)	Efficien- cy (%)	Gain (dBi)
650	-24.6	-20.44	0.35	650	-24.71	-19.82	0.34	650	-16.59	-12.54	2.19
660	-24.11	-19.72	0.39	660	-24.31	-19.37	0.37	660	-16.16	-12.04	2.42
670	-23.59	-18.95	0.44	670	-23.51	-18.46	0.45	670	-15.78	-11.34	2.64
680	-22.8	-17.99	0.53	680	-22.83	-17.52	0.52	680	-15.37	-10.88	2.9
690	-22.07	-17.29	0.62	690	-22.23	-16.67	0.6	690	-14.98	-10.36	3.18
700	-21.3	-16.55	0.74	700	-21.4	-15.94	0.72	700	-10.99	-6.97	7.95
710	-20.64	-15.77	0.86	710	-20.83	-15.29	0.83	710	-10.44	-6.58	9.04
720	-20.04	-15.15	0.99	720	-20.33	-14.66	0.93	720	-10.15	-6.45	9.65
730	-19.33	-14.56	1.17	730	-19.71	-14.14	1.07	730	-9.97	-6.34	10.1
740	-18.74	-14.13	1.34	740	-19.08	-13.71	1.24	740	-9.51	-5.96	11.19
750	-18.02	-13.61	1.58	750	-18.21	-12.91	1.51	750	-9.18	-5.79	12.08
760	-17	-12.64	2	760	-17.22	-11.85	1.9	760	-8.76	-5.52	13.31
770	-15.94	-11.78	2.54	770	-16.31	-11.1	2.34	770	-8.71	-5.38	13.46

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780	-14.81	-10.67	3.3	780	-15.09	-9.95	3.1	780	-8.42	-5.02	14.38
790	-13.7	-9.63	4.26	790	-14.17	-9.05	3.82	790	-8.22	-4.73	15.06
800	-12.62	-8.62	5.48	800	-13.2	-7.93	4.79	800	-8.07	-4.69	15.59
810	-11.54	-7.72	7.02	810	-12.44	-6.88	5.7	810	-7.89	-4.52	16.27
820	-10.64	-6.98	8.63	820	-11.54	-5.94	7.02	820	-7.89	-4.52	16.24
830	-9.55	-5.99	11.09	830	-10.28	-4.93	9.37	830	-7.85	-4.16	16.39
840	-8.77	-5.36	13.27	840	-9.22	-4.04	11.96	840	-7.86	-4.1	16.38
850	-8.11	-4.82	15.44	850	-8.1	-3.11	15.47	850	-7.88	-3.96	16.31
860	-7.96	-4.67	16	860	-7.38	-2.39	18.29	860	-7.89	-4.52	16.27
870	-7.85	-4.52	16.42	870	-6.99	-2.02	20.01	870	-7.89	-4.52	16.24
880	-7.96	-4.51	15.98	880	-6.92	-1.88	20.31	880	-7.89	-4.26	16.24
890	-8.17	-4.82	15.22	890	-7.1	-2.04	19.52	890	-8.04	-4.2	15.72
900	-8.33	-4.95	14.68	900	-7.57	-2.53	17.52	900	-8.07	-4.69	15.59
910	-8.63	-5.07	13.7	910	-8.08	-3.04	15.57	910	-8.22	-4.73	15.06
920	-8.8	-5.09	13.18	920	-8.62	-3.55	13.74	920	-8.42	-5.02	14.38
930	-8.81	-5.05	13.17	930	-9.15	-4.17	12.16	930	-8.71	-5.38	13.46
940	-8.71	-4.84	13.47	940	-9.62	-4.65	10.91	940	-8.76	-5.52	13.31
950	-8.62	-4.62	13.72	950	-10.06	-5.08	9.87	950	-9.18	-5.79	12.08
960	-8.76	-4.88	13.29	960	-10.36	-5.62	9.2	960	-9.51	-5.96	11.19
1700	-19.15	-14.77	1.22	1700	-16.92	-12.45	2.03	1700	-14.73	-10.51	3.37
1720	-17.74	-13.1	1.68	1720	-15.74	-10.86	2.66	1720	-13.75	-9.2	4.22
1740	-16.81	-12.12	2.09	1740	-14.44	-9.24	3.59	1740	-13.05	-8.26	4.96
1760	-15.71	-10.91	2.69	1760	-13.06	-7.61	4.94	1760	-11.91	-7.02	6.44
1780	-14.72	-9.61	3.37	1780	-12.01	-6.46	6.3	1780	-11.37	-6.39	7.3
1800	-13.58	-8.44	4.39	1800	-10.83	-5.18	8.26	1800	-10.43	-5.55	9.06
1820	-12.59	-7.37	5.51	1820	-9.52	-3.84	11.18	1820	-9.74	-4.45	10.61
1840	-11.43	-5.99	7.2	1840	-8.26	-2.78	14.94	1840	-9.06	-3.39	12.42
1860	-10.25	-4.64	9.44	1860	-7.26	-1.83	18.78	1860	-8.54	-2.72	13.99
1880	-9.02	-3.28	12.53	1880	-6.57	-1.09	22.02	1880	-8.19	-2.27	15.15
1900	-7.81	-1.99	16.55	1900	-5.54	0.13	27.94	1900	-7.46	-1.47	17.95
1920	-6.39	-0.28	22.95	1920	-4.61	1.15	34.58	1920	-6.77	-0.66	21.02
1940	-5.34	1.02	29.27	1940	-4.14	1.75	38.59	1940	-6.32	0.03	23.35
1960	-4.5	2.03	35.47	1960	-3.87	2.13	41	1960	-6.07	0.48	24.69
1980	-3.64	3.05	43.21	1980	-3.62	2.47	43.41	1980	-5.69	1.06	26.97
2000	-3.25	3.53	47.35	2000	-3.79	2.48	41.81	2000	-5.44	1.38	28.57
2020	-3.05	3.71	49.54	2020	-3.97	2.25	40.07	2020	-5.26	1.56	29.79
2040	-2.97	3.9	50.41	2040	-4.39	2	36.35	2040	-4.87	2.07	32.55
2060	-3.43	3.5	45.39	2060	-4.75	1.82	33.5	2060	-4.97	2.04	31.82
2080	-3.61	3.3	43.51	2080	-5.06	1.61	31.21	2080	-4.68	2.29	34.05
2100	-4.02	2.82	39.65	2100	-5.49	1.12	28.28	2100	-4.55	2.37	35.05
2120	-4.68	2.15	34.06	2120	-5.86	0.97	25.97	2120	-4.7	2.19	33.89
2140	-4.61	2.19	34.57	2140	-5.99	0.84	25.19	2140	-4.1	2.77	38.9
2160	-5.31	1.43	29.44	2160	-6.12	0.47	24.43	2160	-4.32	2.5	36.99
2180	-5.32	1.27	29.37	2180	-6.34	-0.01	23.23	2180	-3.97	2.66	40.12
2200	-5.44	1.31	28.59	2200	-6.54	-0.41	22.19	2200	-3.85	2.54	41.25
2220	-5.7	1.12	26.91	2220	-6.91	-1.26	20.37	2220	-3.92	2.49	40.58
2240	-6.04	0.67	24.86	2240	-7.31	-2.13	18.58	2240	-4.02	2.21	39.59
2260	-6.44	0.02	22.7	2260	-7.51	-2.51	17.73	2260	-4.09	1.75	39.02

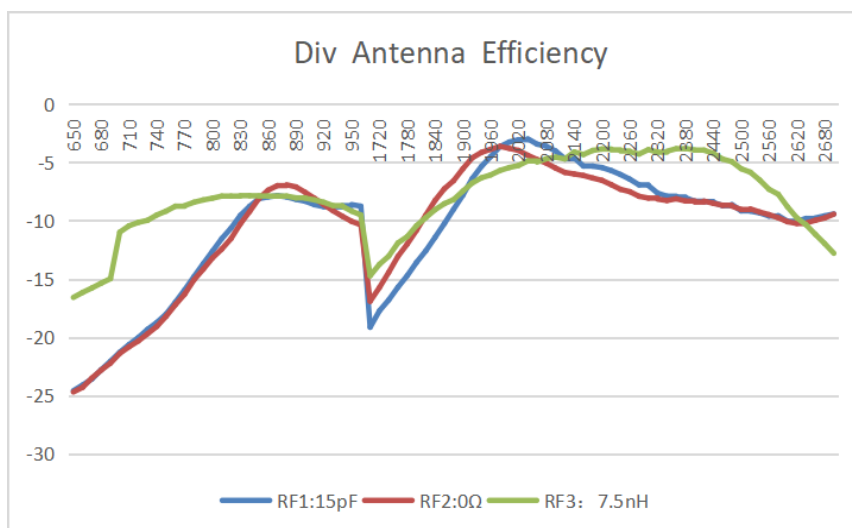
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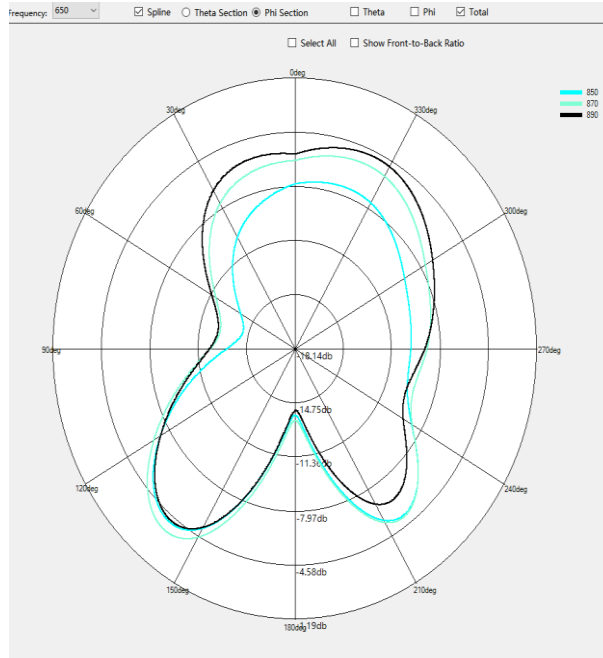
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2280	-6.93	-0.72	20.28	2280	-7.91	-2.58	16.19	2280	-4.28	1.13	37.35
2300	-6.98	-0.96	20.06	2300	-8.06	-2.5	15.62	2300	-3.9	1.51	40.74
2320	-7.64	-1.59	17.22	2320	-8.15	-2.49	15.32	2320	-4.12	1.41	38.76
2340	-7.9	-1.7	16.21	2340	-8.27	-2.43	14.88	2340	-4.04	1.64	39.42
2360	-7.97	-1.64	15.97	2360	-8.12	-2.28	15.42	2360	-3.82	2	41.48
2380	-8.03	-1.66	15.75	2380	-8.31	-2.51	14.76	2380	-3.79	2.06	41.78
2400	-8.33	-1.95	14.69	2400	-8.4	-2.6	14.44	2400	-3.94	1.97	40.37
2420	-8.36	-1.95	14.6	2420	-8.32	-2.64	14.72	2420	-3.95	2.02	40.3
2440	-8.43	-2	14.36	2440	-8.51	-3.16	14.1	2440	-4.22	1.67	37.83
2460	-8.71	-2.32	13.46	2460	-8.68	-3.65	13.56	2460	-4.71	1.04	33.78
2480	-8.61	-2.22	13.76	2480	-8.75	-3.8	13.34	2480	-4.93	0.72	32.12
2500	-9.16	-2.74	12.13	2500	-9.04	-3.75	12.48	2500	-5.54	0.08	27.95
2520	-9.18	-2.69	12.09	2520	-8.99	-3.3	12.63	2520	-5.84	-0.23	26.09
2540	-9.33	-3.02	11.68	2540	-9.26	-3.42	11.86	2540	-6.51	-0.75	22.31
2560	-9.6	-3.52	10.96	2560	-9.48	-3.6	11.28	2560	-7.3	-1.38	18.64
2580	-9.57	-3.73	11.04	2580	-9.75	-3.62	10.59	2580	-7.73	-1.6	16.85
2600	-10.05	-4.31	9.89	2600	-10.09	-4.14	9.79	2600	-8.81	-2.6	13.17
2620	-10.05	-4.33	9.89	2620	-10.24	-4.34	9.47	2620	-9.75	-3.49	10.59
2640	-9.81	-3.99	10.46	2640	-10.2	-4.25	9.55	2640	-10.35	-4.18	9.22
2660	-9.77	-3.92	10.54	2660	-9.97	-3.95	10.06	2660	-11.17	-5.13	7.64
2680	-9.59	-3.77	11	2680	-9.77	-4.06	10.54	2680	-11.96	-5.75	6.37
2700	-9.42	-3.49	11.44	2700	-9.44	-3.89	11.37	2700	-12.8	-6.61	5.25

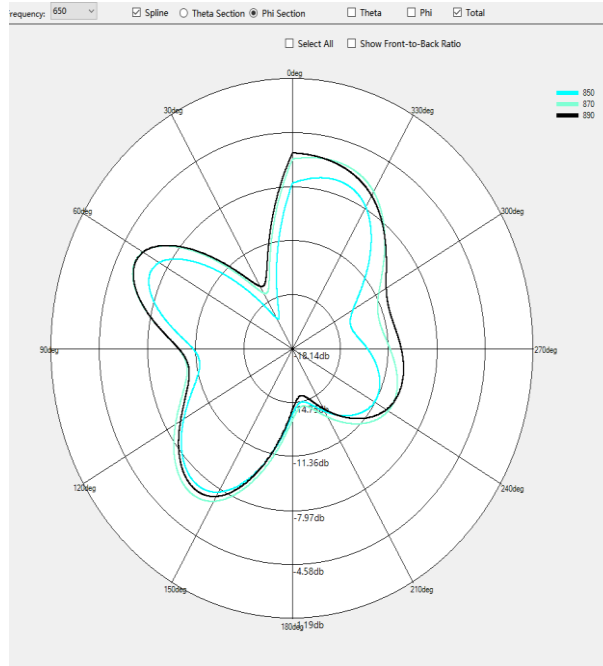


1D view:

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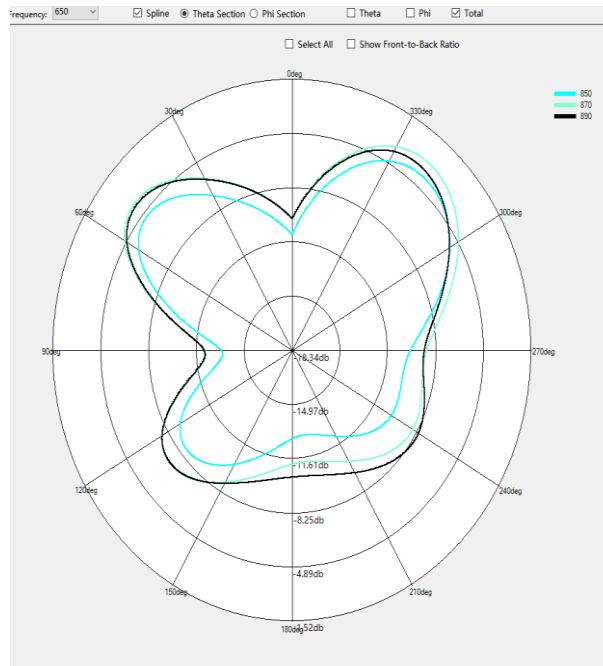


Theta = 90



Theta = 0

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Phi = 90

2.3 Model: T2_3IN1_ANTENNA

Maximum Gain: 4.09dBi

T2_3IN1_ANTENNA S11



Efficiency test results

Frequency	Efficiency (dB)	Gain (dBi)	Efficiency (%)	Frequency	Efficiency (dB)	Gain (dBi)	Efficiency (%)
1550	-5.32	-1.05	29.37	5120	-3.35	3.19	46.27
1555	-5.24	-0.97	29.89	5140	-3.36	2.99	46.18
1560	-5.15	-0.85	30.58	5160	-3.56	2.72	44.06
1565	-5.06	-0.73	31.2	5180	-3.42	2.76	45.46
1570	-5.01	-0.65	31.53	5200	-3.32	2.87	46.53
1575	-4.97	-0.57	31.85	5220	-3.51	2.62	44.53
1580	-4.93	-0.51	32.11	5240	-3.34	2.81	46.33
1585	-4.93	-0.47	32.14	5260	-3.54	2.62	44.22
1590	-4.92	-0.37	32.21	5280	-3.54	2.72	44.25
2400	-3.86	1.22	41.15	5300	-3.54	2.83	44.23
2410	-3.92	1.31	40.54	5320	-3.82	2.64	41.49
2420	-3.97	1.27	40.08	5340	-3.6	2.91	43.66
2430	-4.12	1	38.71	5360	-3.52	3.06	44.45
2440	-4.12	0.95	38.72	5380	-3.43	3.2	45.43
2450	-4.3	0.79	37.14	5400	-3.17	3.55	48.19
2460	-4.42	0.53	36.16	5420	-3.26	3.5	47.18

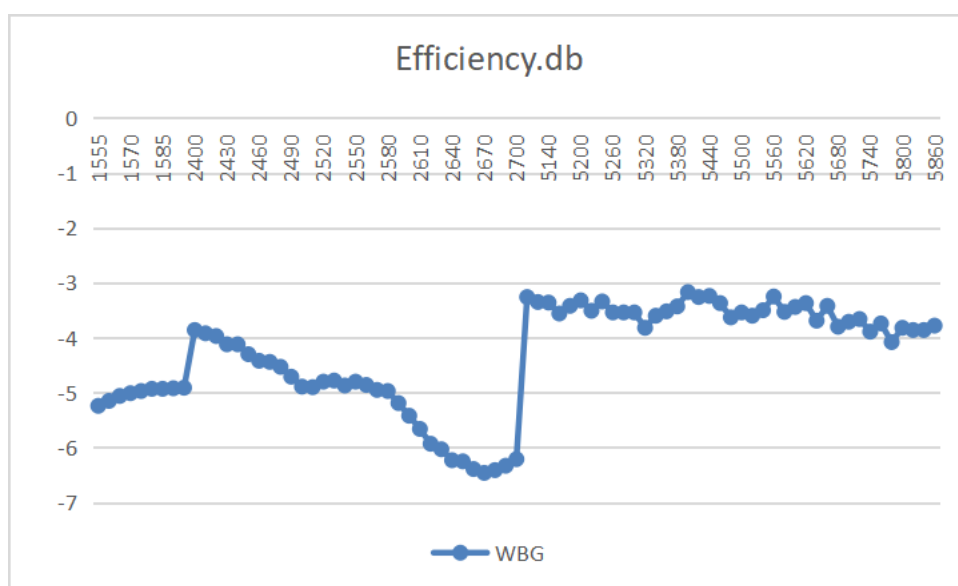
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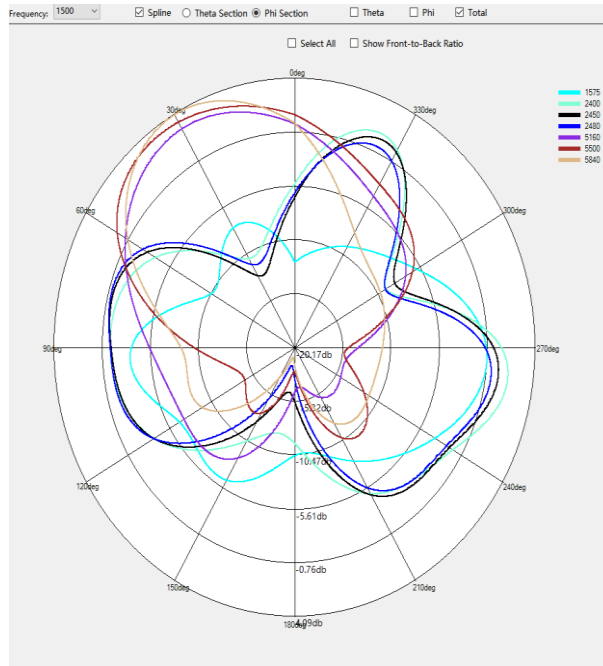
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2470	-4.44	0.35	35.98	5440	-3.24	3.64	47.4
2480	-4.53	-0.05	35.23	5460	-3.37	3.48	45.98
2490	-4.71	-0.27	33.8	5480	-3.63	3.28	43.31
2500	-4.89	-0.61	32.45	5500	-3.54	3.3	44.27
				5520	-3.6	3.2	43.7
				5540	-3.5	3.31	44.63
				5560	-3.25	3.61	47.28
				5580	-3.53	3.4	44.37
				5600	-3.44	3.55	45.28
				5620	-3.37	3.79	46.04
				5640	-3.69	3.59	42.72
				5660	-3.42	3.93	45.47
				5680	-3.8	3.64	41.66
				5700	-3.71	3.85	42.57
				5720	-3.66	3.84	43.01
				5740	-3.89	3.7	40.85
				5760	-3.74	3.97	42.23
				5780	-4.08	3.68	39.1
				5800	-3.82	4	41.45
				5820	-3.86	4	41.1
				5840	-3.86	4.09	41.16
				5860	-3.78	4.05	41.84
				5880	-3.97	3.86	40.11
				5900	-3.85	4	41.24

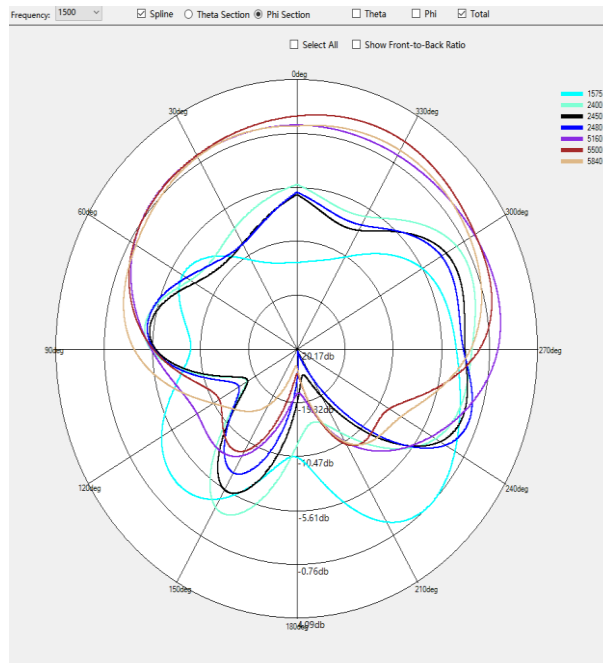


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Efficiency&Gain test dataset



Pi=0



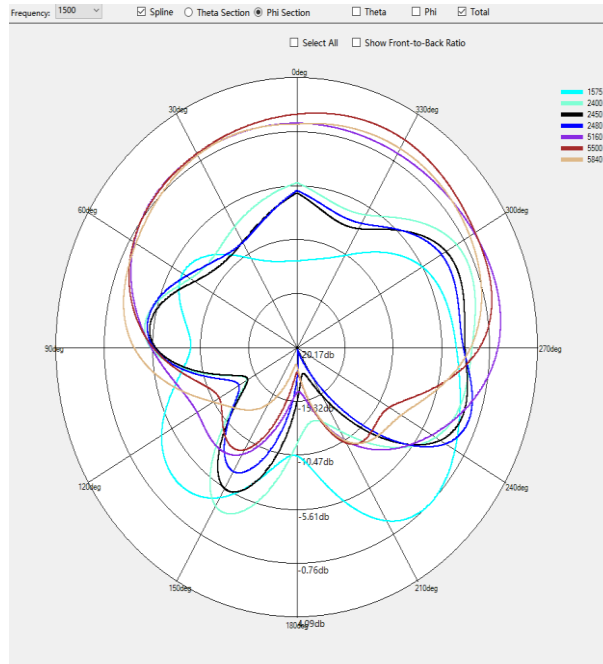
Pi=90

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Theta=90

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