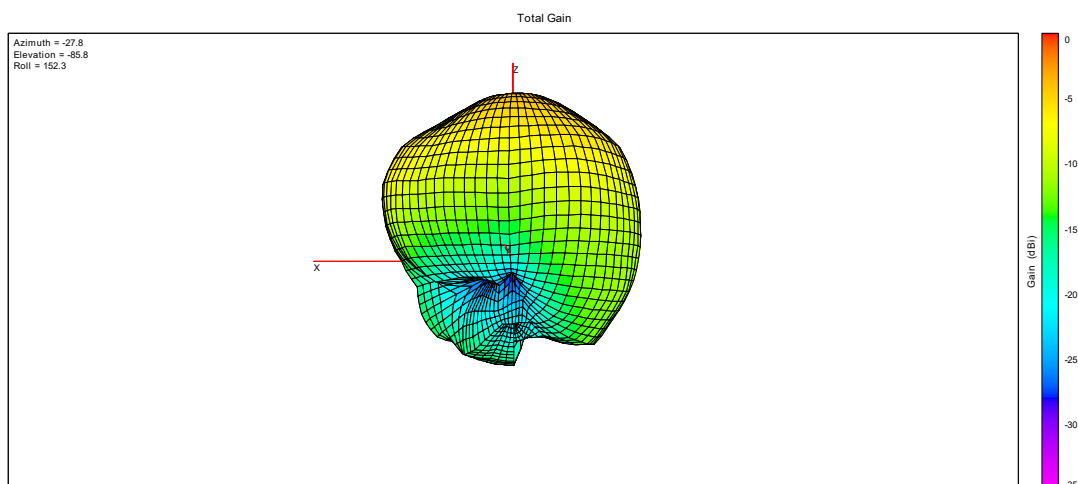
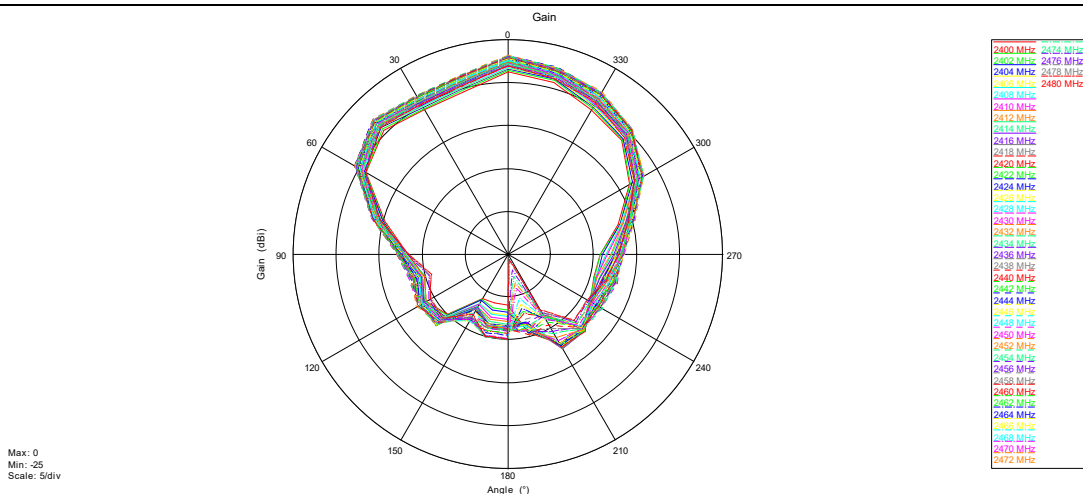


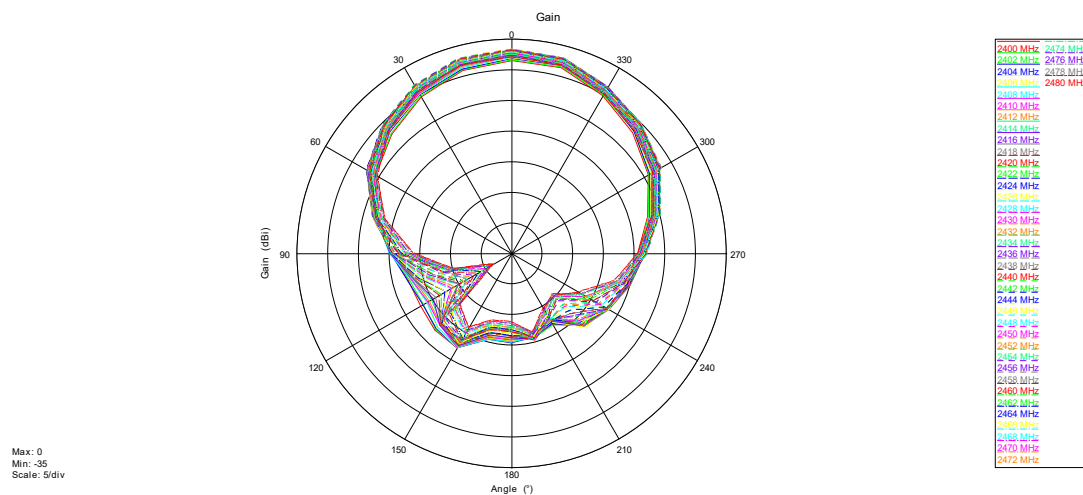
2440MHz



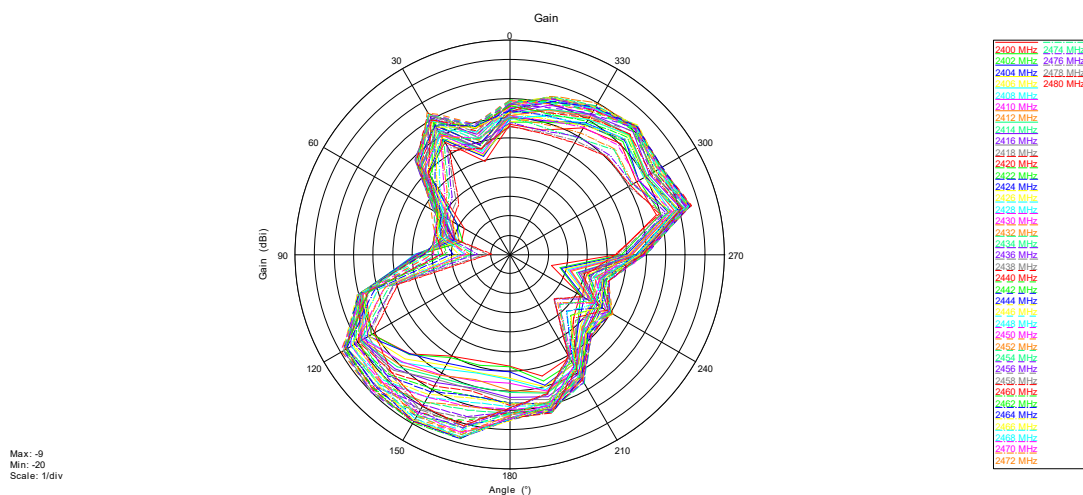
2480MHz



Phi=0°



Phi=90°



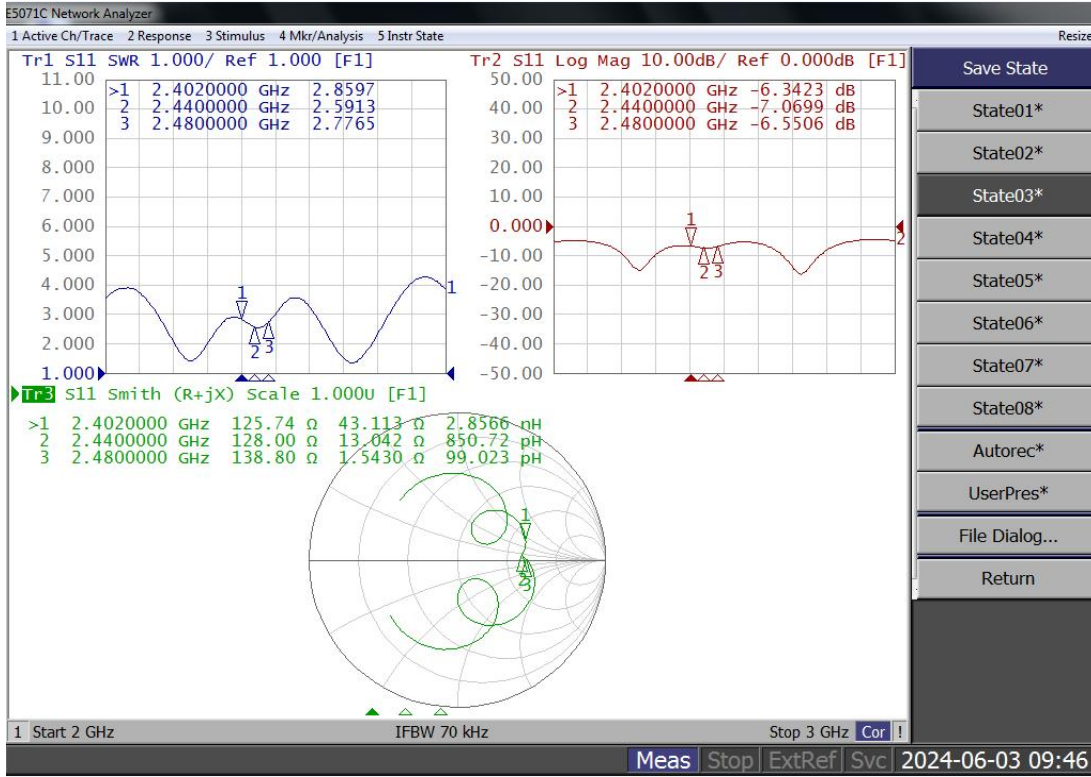
Theta=90°



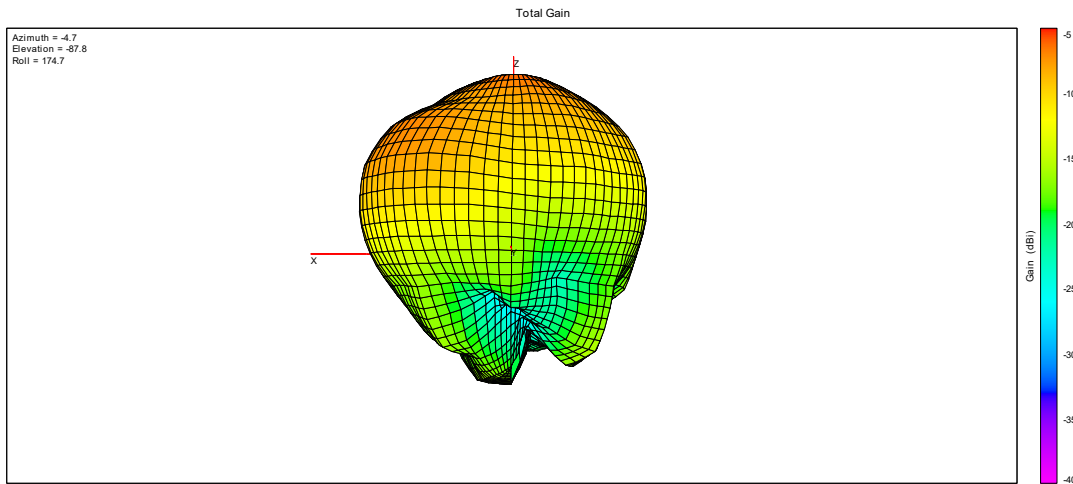
20# (MG2-8)			
频率(MHz)	效率(%)	增益(dBi)	PeakGain (dBi)
2400	9.71	-3.54	-1.77
2402	10.04	-3.35	
2404	10.42	-3.21	
2406	10.70	-3.05	
2408	10.97	-2.91	
2410	11.28	-2.79	
2412	11.44	-2.76	
2414	11.63	-2.75	
2416	11.96	-2.61	
2418	12.30	-2.47	
2420	12.51	-2.36	
2422	12.64	-2.28	
2424	12.84	-2.20	
2426	13.00	-2.18	
2428	13.11	-2.17	
2430	13.46	-2.06	
2432	13.69	-2.00	
2434	13.70	-1.95	
2436	13.82	-1.89	
2438	14.05	-1.81	
2440	14.09	-1.85	
2442	14.06	-1.85	
2444	14.21	-1.78	
2446	14.18	-1.77	
2448	14.07	-1.79	
2450	14.09	-1.80	
2452	14.21	-1.77	
2454	14.11	-1.78	
2456	13.81	-1.86	
2458	13.60	-1.90	
2460	13.42	-1.95	
2462	13.04	-2.09	
2464	12.80	-2.17	
2466	12.74	-2.18	
2468	12.45	-2.28	
2470	11.91	-2.44	
2472	11.64	-2.49	
2474	11.41	-2.56	
2476	10.98	-2.76	
2478	10.64	-2.87	
2480	10.46	-2.98	

Gain data (Ant8)

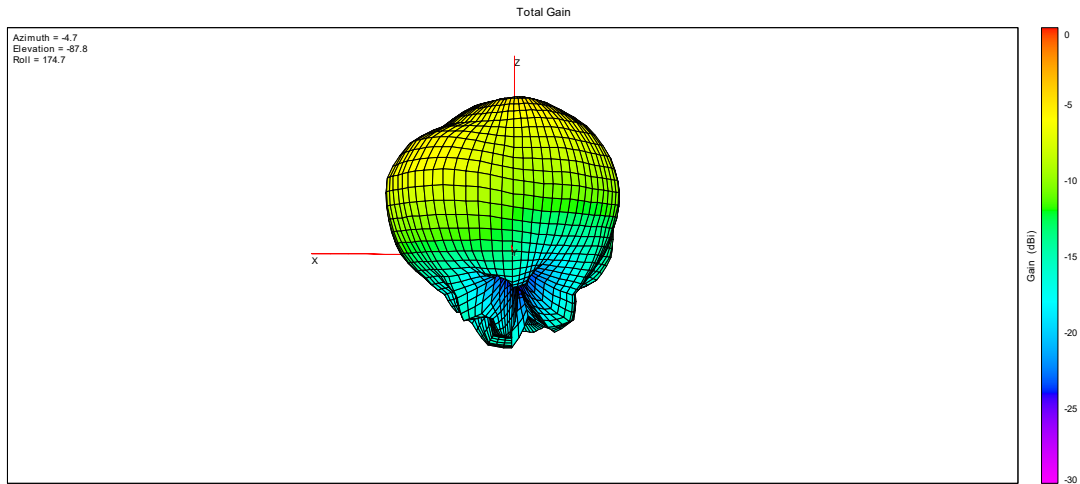
3.11 ANT9
3.11.1 S11



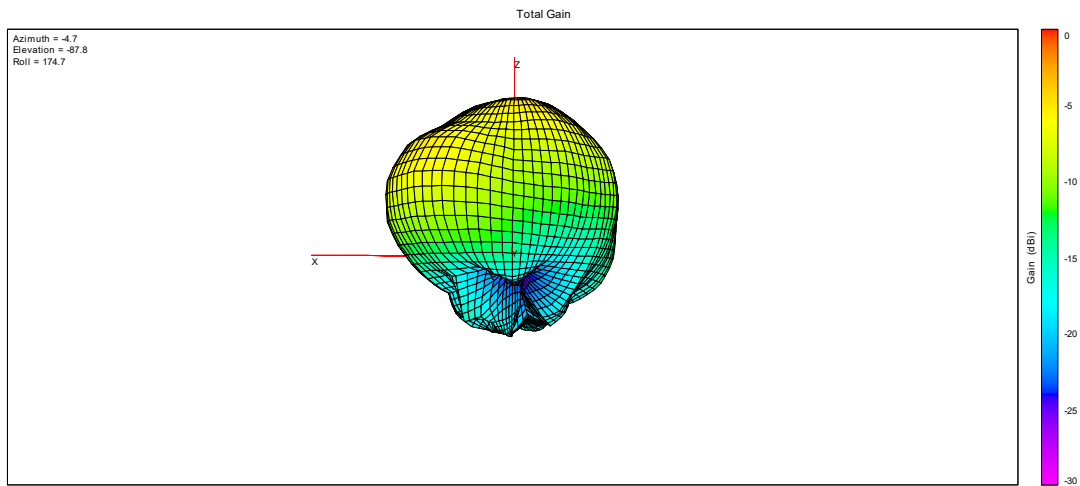
3.11.2 Gain



2402MHz



2440MHz



2480MHz



深圳云里物里科技股份有限公司

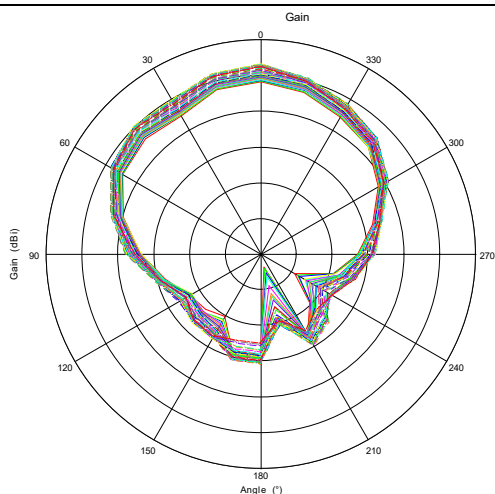
产品天线测试报告 (The Antenna Test Report)

Y-YB-CR-115

V001

密级: 绝密 /confidentiality

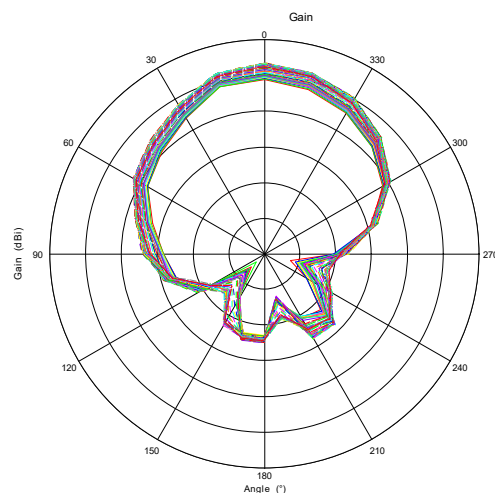
Max: 0
Min: -30
Scale: 5/div



2400 MHz	2474 MHz
2402 MHz	2476 MHz
2404 MHz	2478 MHz
2406 MHz	2479 MHz
2408 MHz	2480 MHz
2410 MHz	
2412 MHz	
2414 MHz	
2416 MHz	
2418 MHz	
2420 MHz	
2422 MHz	
2424 MHz	
2426 MHz	
2428 MHz	
2430 MHz	
2432 MHz	
2434 MHz	
2436 MHz	
2438 MHz	
2440 MHz	
2442 MHz	
2444 MHz	
2446 MHz	
2448 MHz	
2450 MHz	
2452 MHz	
2454 MHz	
2456 MHz	
2458 MHz	
2460 MHz	
2462 MHz	
2464 MHz	
2466 MHz	
2468 MHz	
2470 MHz	
2472 MHz	

Phi=0°

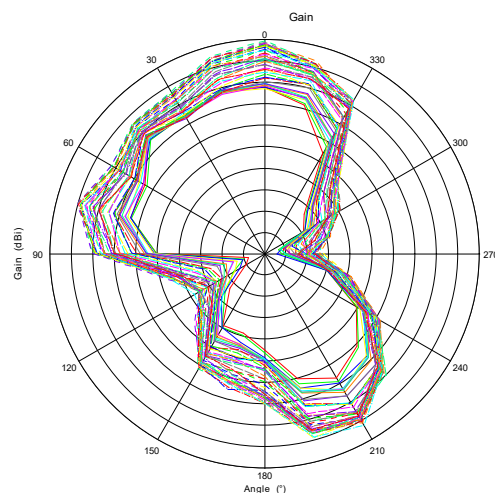
Max: 0
Min: -30
Scale: 5/div



2400 MHz	2474 MHz
2402 MHz	2476 MHz
2404 MHz	2478 MHz
2406 MHz	2479 MHz
2408 MHz	2480 MHz
2410 MHz	
2412 MHz	
2414 MHz	
2416 MHz	
2418 MHz	
2420 MHz	
2422 MHz	
2424 MHz	
2426 MHz	
2428 MHz	
2430 MHz	
2432 MHz	
2434 MHz	
2436 MHz	
2438 MHz	
2440 MHz	
2442 MHz	
2444 MHz	
2446 MHz	
2448 MHz	
2450 MHz	
2452 MHz	
2454 MHz	
2456 MHz	
2458 MHz	
2460 MHz	
2462 MHz	
2464 MHz	
2466 MHz	
2468 MHz	
2470 MHz	
2472 MHz	

Phi=90°

Max: -11
Min: -21
Scale: 1/div



2400 MHz	2474 MHz
2402 MHz	2476 MHz
2404 MHz	2478 MHz
2406 MHz	2479 MHz
2408 MHz	2480 MHz
2410 MHz	
2412 MHz	
2414 MHz	
2416 MHz	
2418 MHz	
2420 MHz	
2422 MHz	
2424 MHz	
2426 MHz	
2428 MHz	
2430 MHz	
2432 MHz	
2434 MHz	
2436 MHz	
2438 MHz	
2440 MHz	
2442 MHz	
2444 MHz	
2446 MHz	
2448 MHz	
2450 MHz	
2452 MHz	
2454 MHz	
2456 MHz	
2458 MHz	
2460 MHz	
2462 MHz	
2464 MHz	
2466 MHz	
2468 MHz	
2470 MHz	
2472 MHz	

Theta=90°

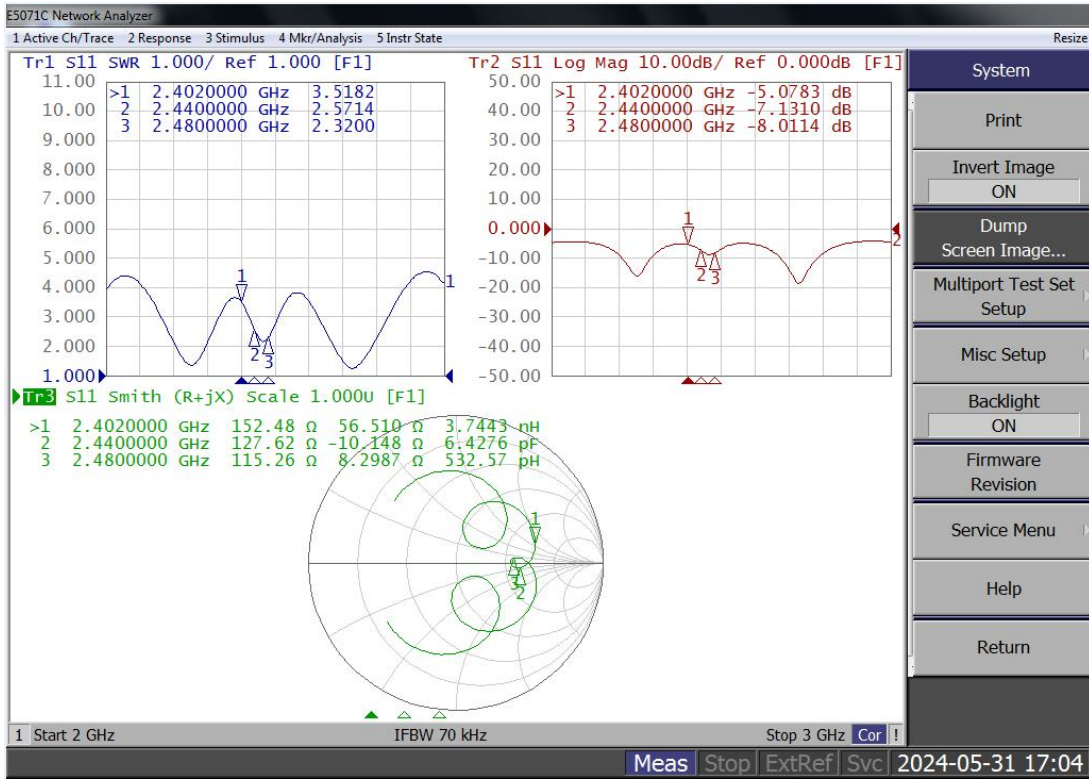


22# (MG2-9)			
频率(MHz)	效率(%)	增益(dBi)	PeakGain (dBi)
2400	5.82	-5.44	-3.31
2402	5.95	-5.29	
2404	6.11	-5.20	
2406	6.22	-5.06	
2408	6.31	-5.04	
2410	6.45	-4.98	
2412	6.49	-4.98	
2414	6.57	-4.92	
2416	6.71	-4.77	
2418	6.88	-4.70	
2420	6.98	-4.60	
2422	7.06	-4.61	
2424	7.19	-4.57	
2426	7.28	-4.55	
2428	7.37	-4.45	
2430	7.59	-4.32	
2432	7.78	-4.21	
2434	7.84	-4.23	
2436	7.97	-4.13	
2438	8.19	-4.01	
2440	8.31	-3.95	
2442	8.42	-3.90	
2444	8.59	-3.79	
2446	8.70	-3.68	
2448	8.77	-3.62	
2450	8.92	-3.54	
2452	9.16	-3.43	
2454	9.22	-3.39	
2456	9.19	-3.38	
2458	9.19	-3.31	
2460	9.20	-3.32	
2462	9.09	-3.40	
2464	9.04	-3.38	
2466	9.16	-3.37	
2468	9.05	-3.39	
2470	8.76	-3.47	
2472	8.69	-3.49	
2474	8.62	-3.53	
2476	8.38	-3.65	
2478	8.22	-3.75	
2480	8.16	-3.76	

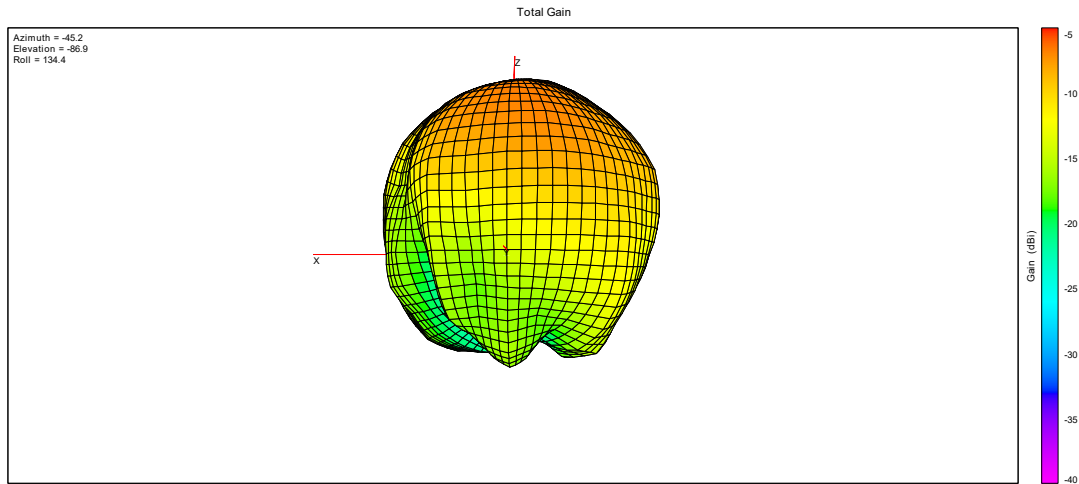
Gain data (Ant9)

3.12 ANT10

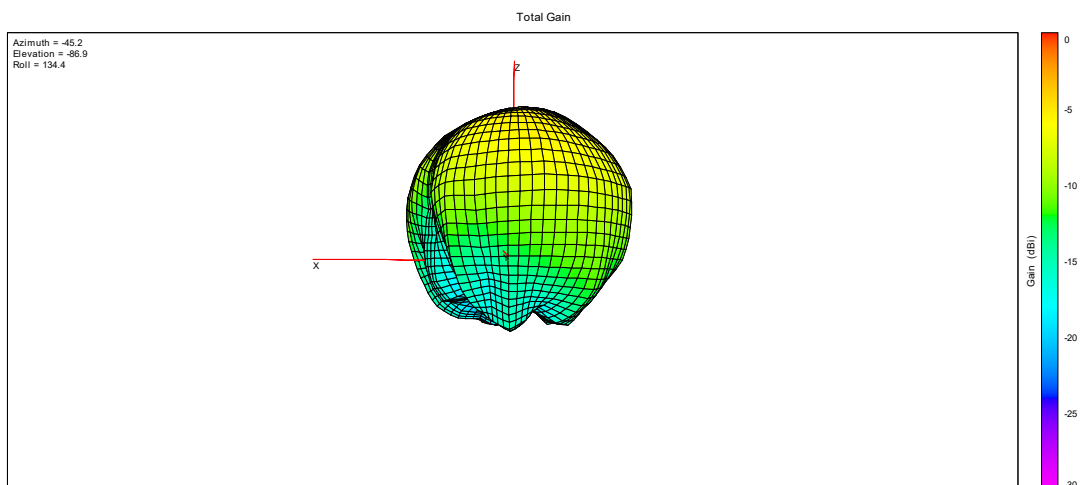
3.12.1 S11



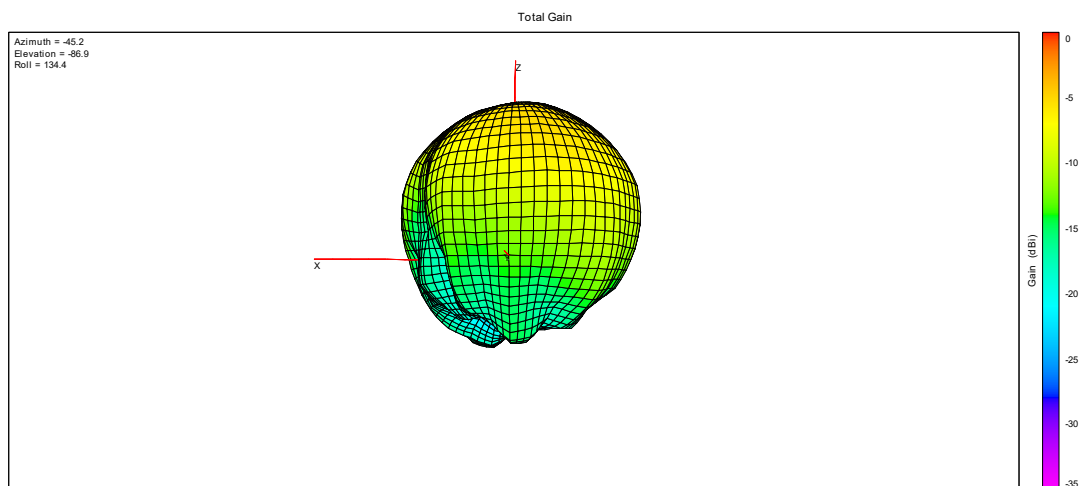
3.12.2 Gain



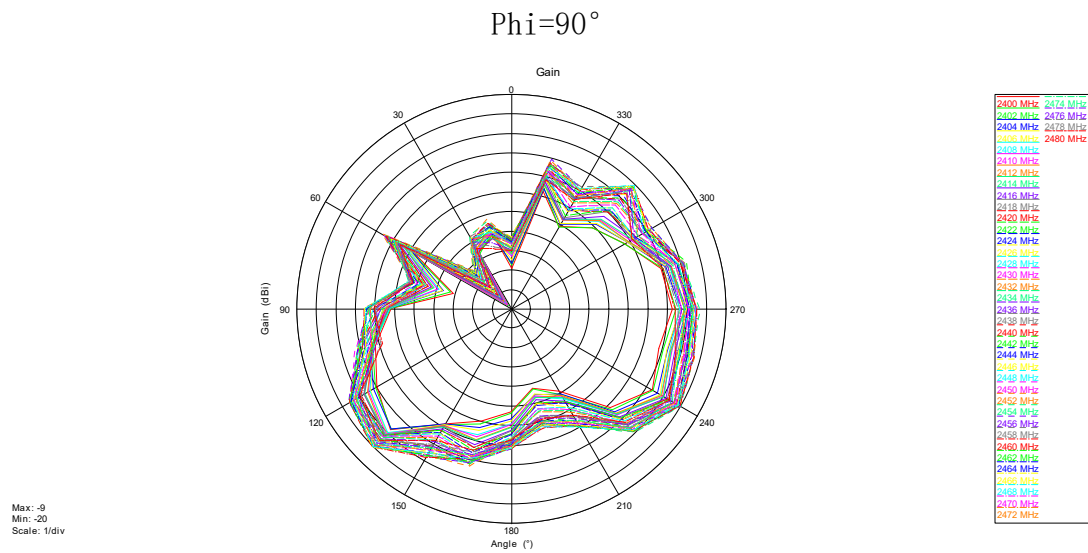
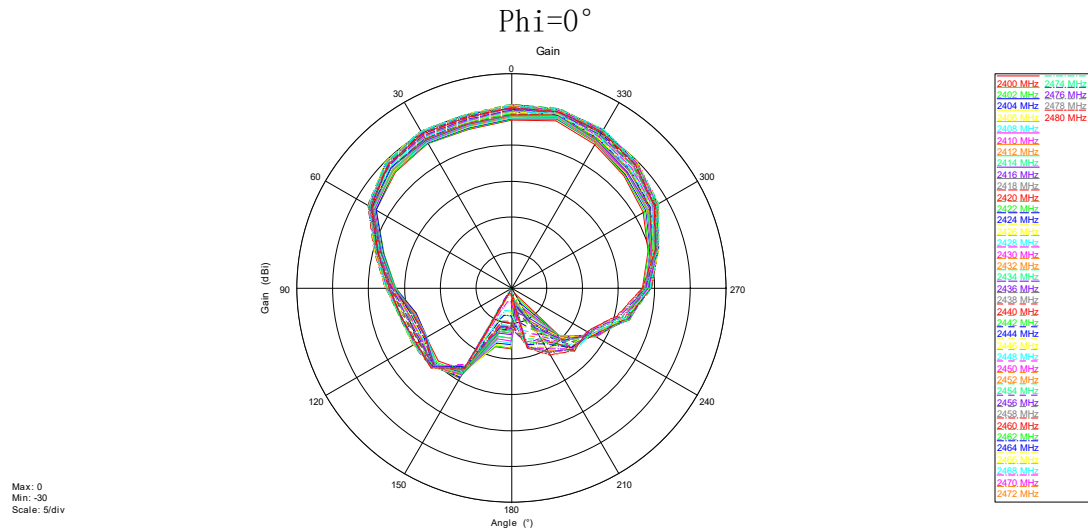
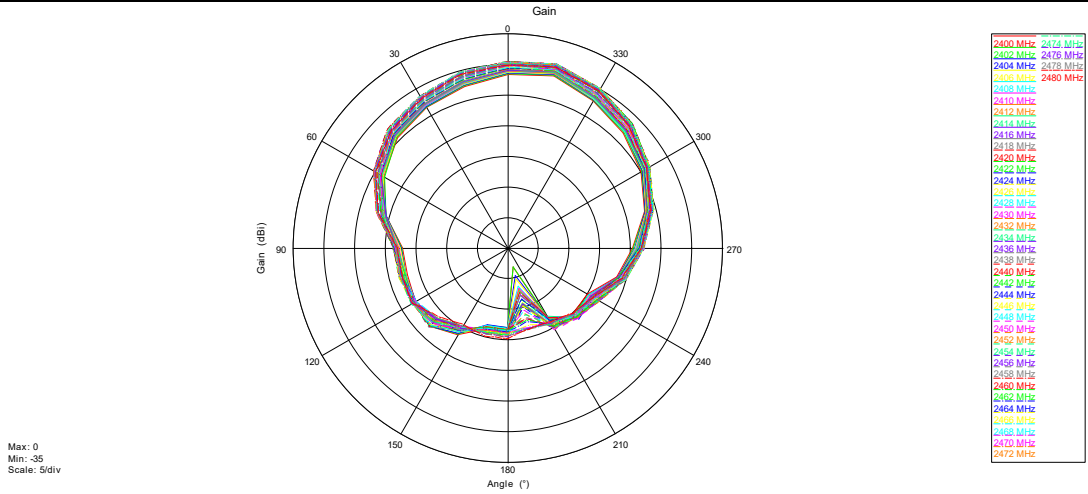
2402MHz



2440MHz



2480MHz

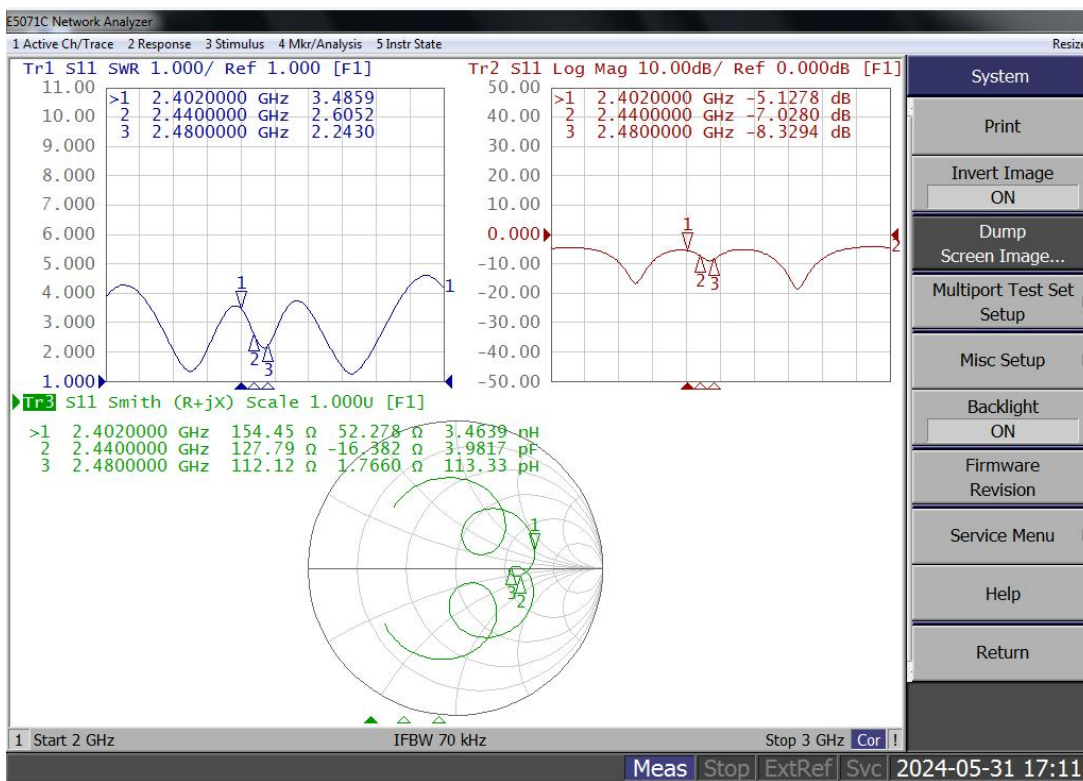


24# (MG2-10)			
频率 (MHz)	效率 (%)	增益 (dBi)	PeakGain (dBi)
2400	6.88	-5.84	-3.86
2402	7.05	-5.68	
2404	7.22	-5.54	
2406	7.37	-5.41	
2408	7.47	-5.36	
2410	7.61	-5.32	
2412	7.66	-5.28	
2414	7.73	-5.24	
2416	7.90	-5.06	
2418	8.09	-4.95	
2420	8.20	-4.88	
2422	8.25	-4.93	
2424	8.39	-4.85	
2426	8.48	-4.84	
2428	8.55	-4.79	
2430	8.80	-4.65	
2432	8.97	-4.55	
2434	9.02	-4.58	
2436	9.16	-4.53	
2438	9.39	-4.42	
2440	9.50	-4.37	
2442	9.60	-4.25	
2444	9.78	-4.18	
2446	9.88	-4.13	
2448	9.93	-4.15	
2450	10.11	-4.08	
2452	10.36	-3.91	
2454	10.42	-3.86	
2456	10.37	-3.88	
2458	10.38	-3.88	
2460	10.39	-3.88	
2462	10.26	-3.97	
2464	10.20	-3.99	
2466	10.31	-3.97	
2468	10.21	-3.96	
2470	9.90	-4.08	
2472	9.82	-4.12	
2474	9.76	-4.16	
2476	9.49	-4.27	
2478	9.30	-4.37	
2480	9.24	-4.40	

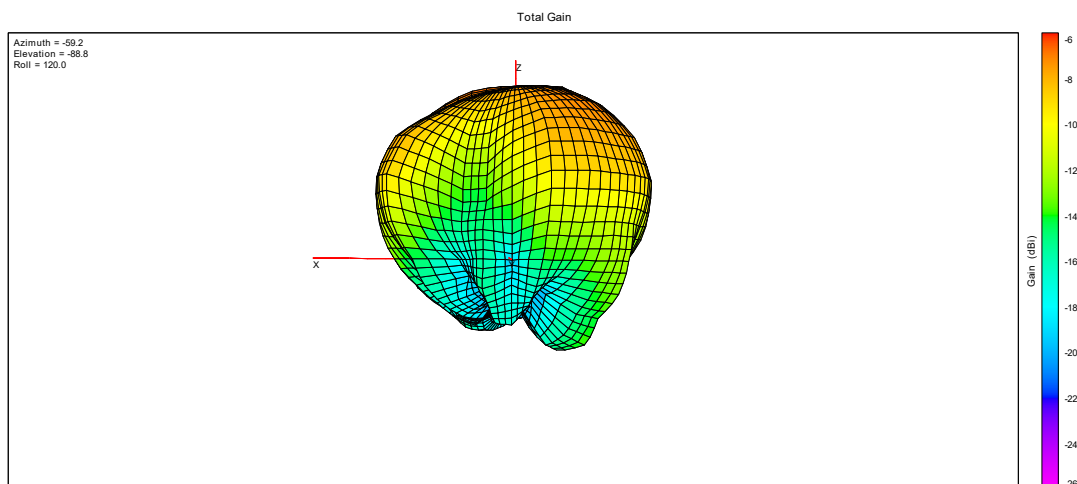
Gain data (Ant10)

3.13 ANT11

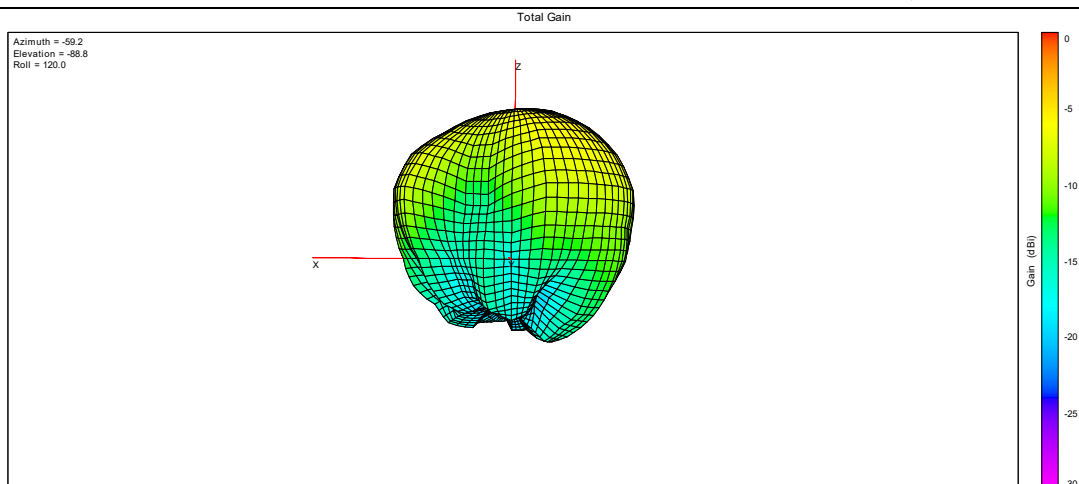
3.13.1 S11



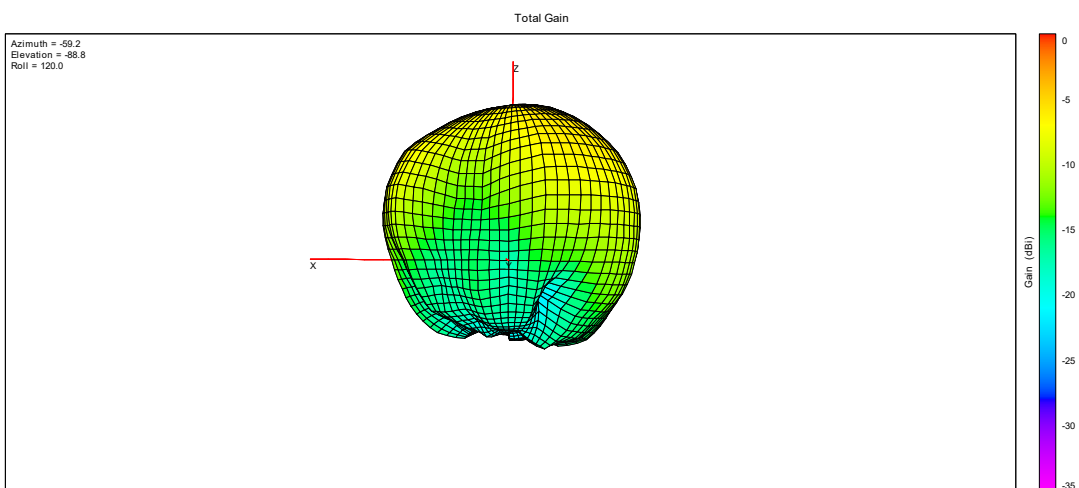
3.13.2 Gain



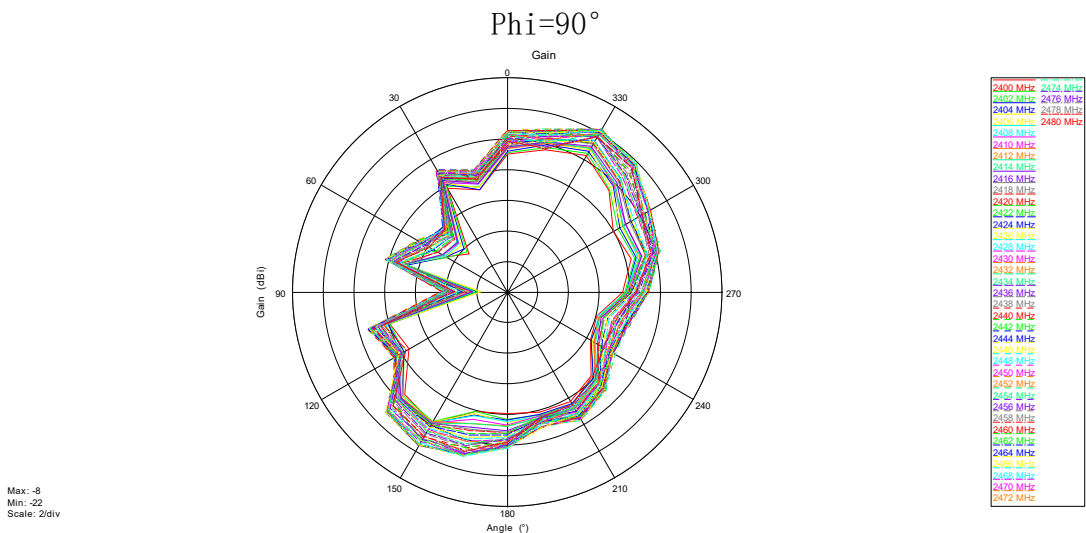
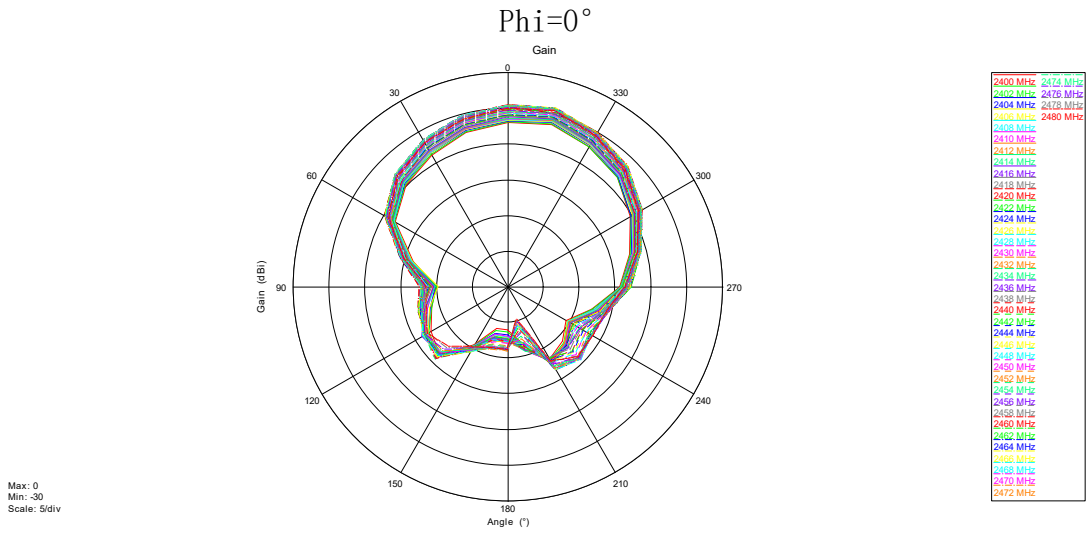
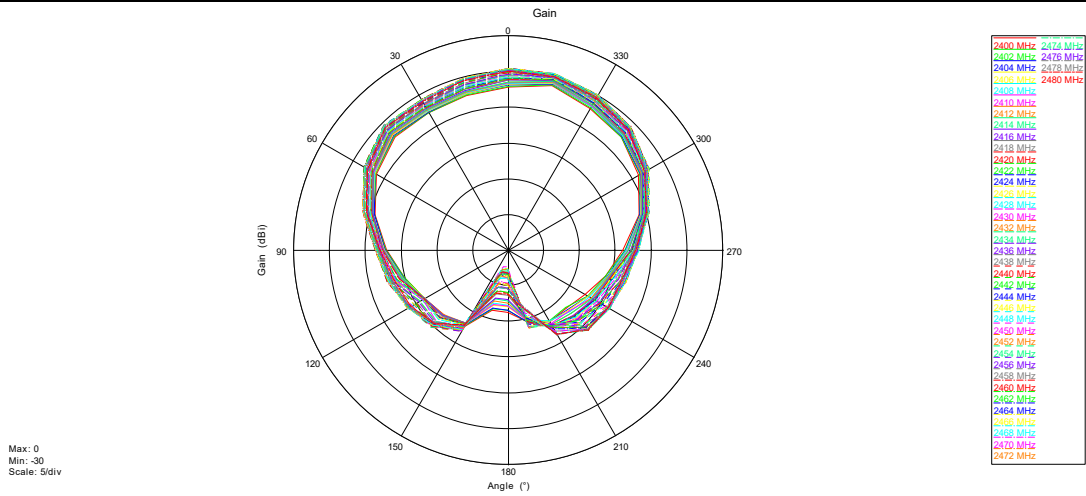
2402MHz



2440MHz



2480MHz



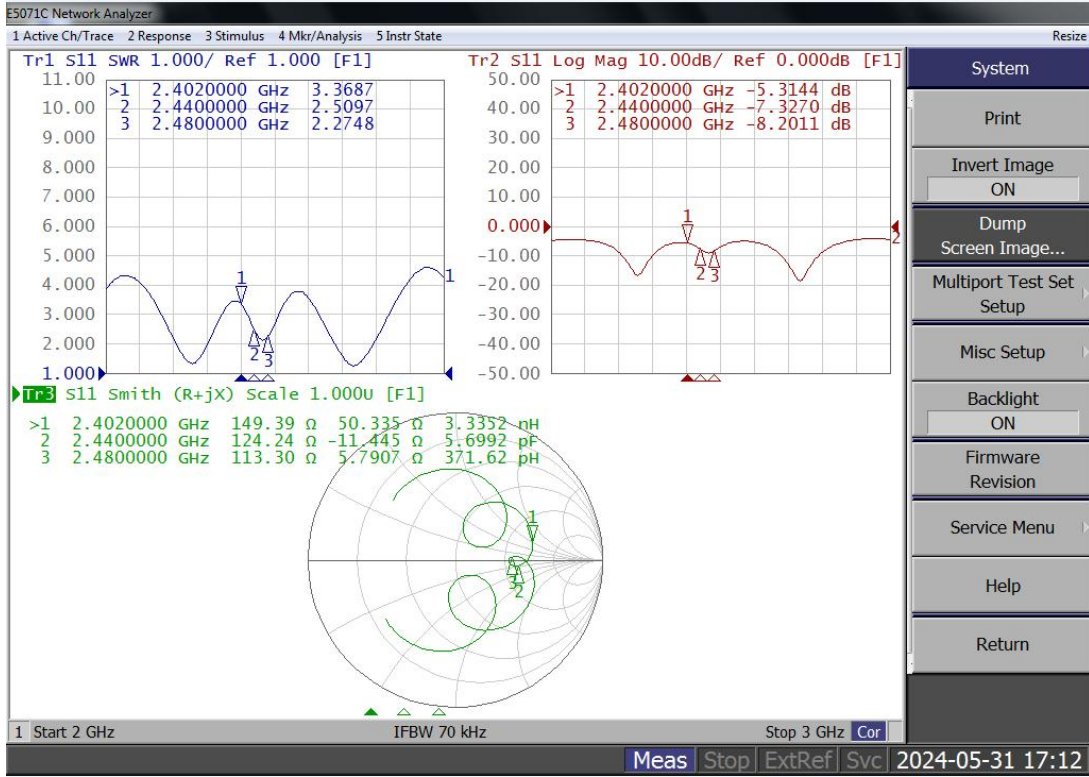


26# (MG2-11)			
频率 (MHz)	效率 (%)	增益 (dBi)	PeakGain (dBi)
2400	6.53	-6.26	-4.08
2402	6.69	-6.21	
2404	6.87	-6.00	
2406	6.99	-5.94	
2408	7.11	-5.87	
2410	7.25	-5.77	
2412	7.31	-5.70	
2414	7.38	-5.67	
2416	7.54	-5.54	
2418	7.74	-5.42	
2420	7.85	-5.32	
2422	7.91	-5.29	
2424	8.05	-5.28	
2426	8.14	-5.19	
2428	8.21	-5.18	
2430	8.44	-5.01	
2432	8.62	-4.91	
2434	8.68	-4.89	
2436	8.82	-4.82	
2438	9.04	-4.72	
2440	9.16	-4.63	
2442	9.25	-4.52	
2444	9.45	-4.45	
2446	9.56	-4.43	
2448	9.63	-4.40	
2450	9.79	-4.29	
2452	10.05	-4.17	
2454	10.11	-4.10	
2456	10.08	-4.11	
2458	10.10	-4.11	
2460	10.12	-4.13	
2462	9.99	-4.18	
2464	9.95	-4.19	
2466	10.07	-4.10	
2468	9.96	-4.08	
2470	9.69	-4.21	
2472	9.61	-4.23	
2474	9.55	-4.25	
2476	9.29	-4.36	
2478	9.09	-4.43	
2480	9.03	-4.48	

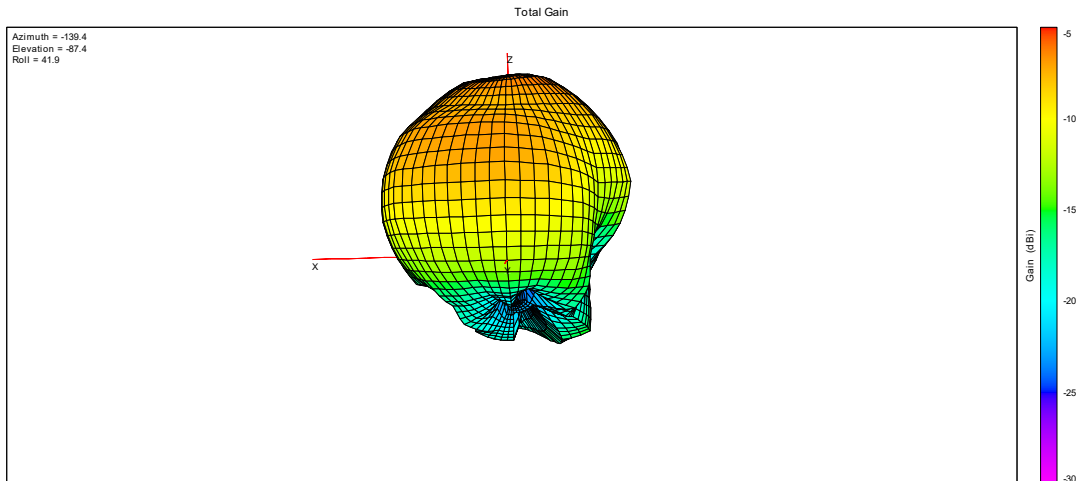
Gain data (Ant11)

3.14 ANT12

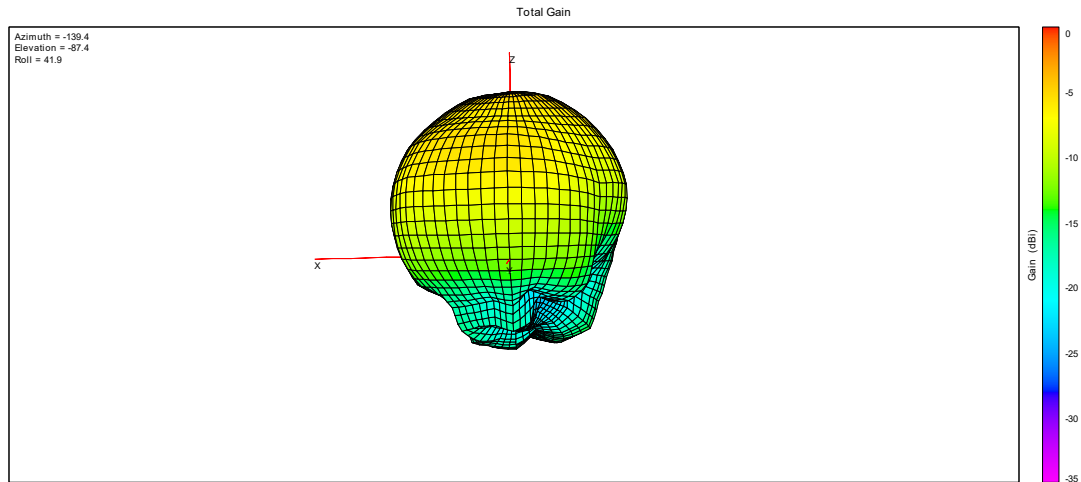
3.14.1 S11



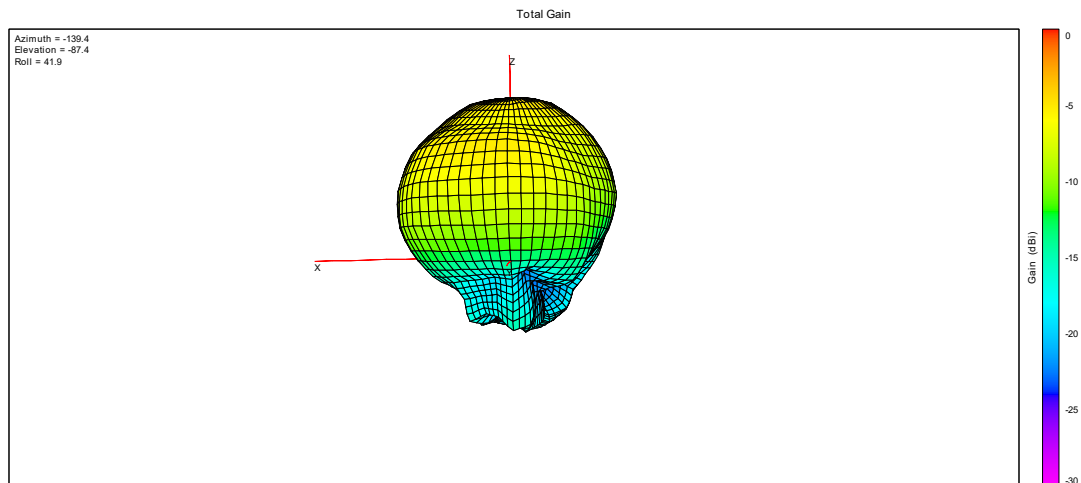
3.14.2 Gain



2402MHz

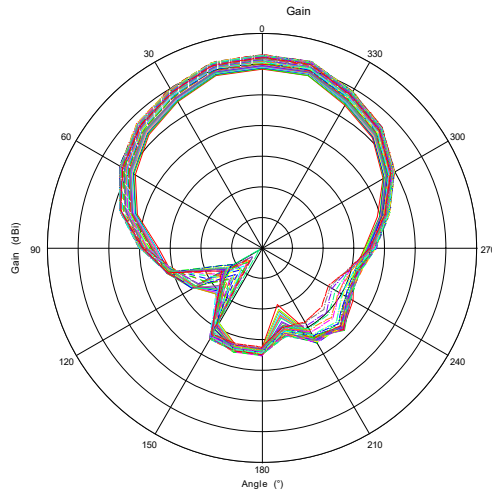


2440MHz



2480MHz

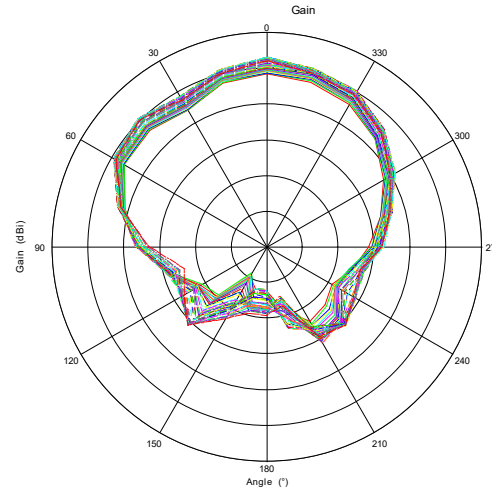
Max: 0
Min: -35
Scale: 5/div



2400 MHz	2474 MHz
2402 MHz	2476 MHz
2404 MHz	2478 MHz
2406 MHz	2480 MHz
2408 MHz	
2410 MHz	
2412 MHz	
2414 MHz	
2416 MHz	
2418 MHz	
2420 MHz	
2422 MHz	
2424 MHz	
2426 MHz	
2428 MHz	
2430 MHz	
2432 MHz	
2434 MHz	
2436 MHz	
2438 MHz	
2440 MHz	
2442 MHz	
2444 MHz	
2446 MHz	
2448 MHz	
2450 MHz	
2452 MHz	
2454 MHz	
2456 MHz	
2458 MHz	
2460 MHz	
2462 MHz	
2464 MHz	
2466 MHz	
2468 MHz	
2470 MHz	
2472 MHz	

Phi=0°

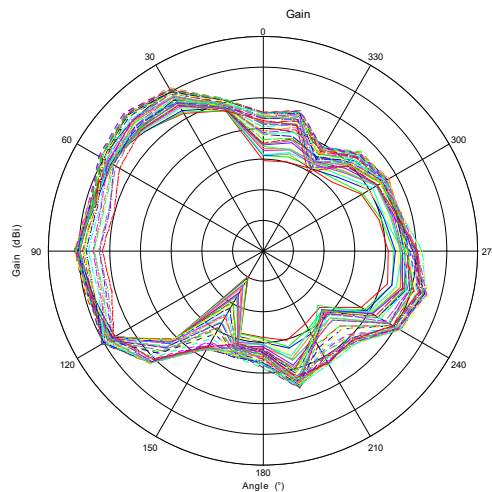
Max: 0
Min: -30
Scale: 5/div



2400 MHz	2474 MHz
2402 MHz	2476 MHz
2404 MHz	2478 MHz
2406 MHz	2480 MHz
2408 MHz	
2410 MHz	
2412 MHz	
2414 MHz	
2416 MHz	
2418 MHz	
2420 MHz	
2422 MHz	
2424 MHz	
2426 MHz	
2428 MHz	
2430 MHz	
2432 MHz	
2434 MHz	
2436 MHz	
2438 MHz	
2440 MHz	
2442 MHz	
2444 MHz	
2446 MHz	
2448 MHz	
2450 MHz	
2452 MHz	
2454 MHz	
2456 MHz	
2458 MHz	
2460 MHz	
2462 MHz	
2464 MHz	
2466 MHz	
2468 MHz	
2470 MHz	
2472 MHz	

Phi=90°

Max: -10
Min: -24
Scale: 2/div



2400 MHz	2474 MHz
2402 MHz	2476 MHz
2404 MHz	2478 MHz
2406 MHz	2480 MHz
2408 MHz	
2410 MHz	
2412 MHz	
2414 MHz	
2416 MHz	
2418 MHz	
2420 MHz	
2422 MHz	
2424 MHz	
2426 MHz	
2428 MHz	
2430 MHz	
2432 MHz	
2434 MHz	
2436 MHz	
2438 MHz	
2440 MHz	
2442 MHz	
2444 MHz	
2446 MHz	
2448 MHz	
2450 MHz	
2452 MHz	
2454 MHz	
2456 MHz	
2458 MHz	
2460 MHz	
2462 MHz	
2464 MHz	
2466 MHz	
2468 MHz	
2470 MHz	
2472 MHz	

Theta=90°

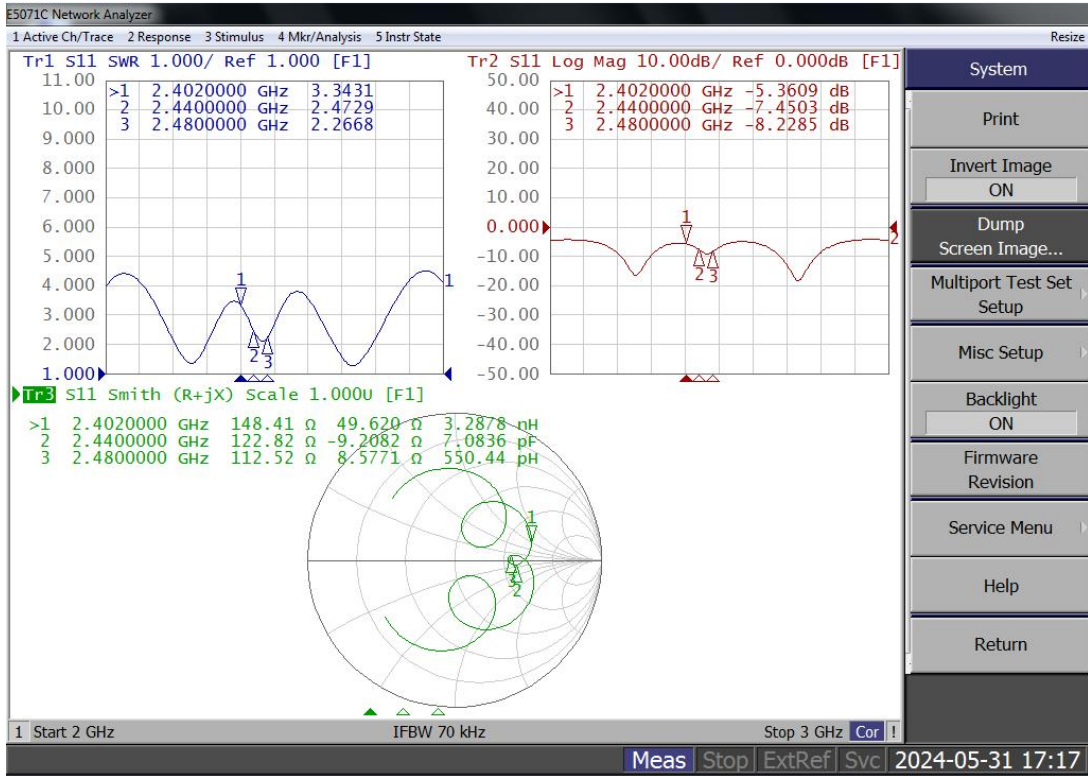


28# (MG2-12)			
频率 (MHz)	效率 (%)	增益 (dBi)	PeakGain (dBi)
2400	6.10	-5.54	-3.30
2402	6.23	-5.48	
2404	6.39	-5.37	
2406	6.52	-5.26	
2408	6.63	-5.14	
2410	6.76	-5.13	
2412	6.83	-5.09	
2414	6.89	-5.06	
2416	7.06	-4.97	
2418	7.22	-4.84	
2420	7.33	-4.76	
2422	7.41	-4.66	
2424	7.53	-4.61	
2426	7.63	-4.58	
2428	7.70	-4.56	
2430	7.94	-4.37	
2432	8.12	-4.28	
2434	8.17	-4.22	
2436	8.30	-4.12	
2438	8.50	-3.98	
2440	8.64	-3.92	
2442	8.70	-3.84	
2444	8.89	-3.75	
2446	8.97	-3.65	
2448	9.03	-3.60	
2450	9.18	-3.53	
2452	9.39	-3.39	
2454	9.44	-3.38	
2456	9.39	-3.36	
2458	9.39	-3.30	
2460	9.39	-3.33	
2462	9.26	-3.37	
2464	9.22	-3.42	
2466	9.30	-3.38	
2468	9.18	-3.38	
2470	8.89	-3.49	
2472	8.80	-3.53	
2474	8.73	-3.56	
2476	8.48	-3.73	
2478	8.32	-3.84	
2480	8.25	-3.89	

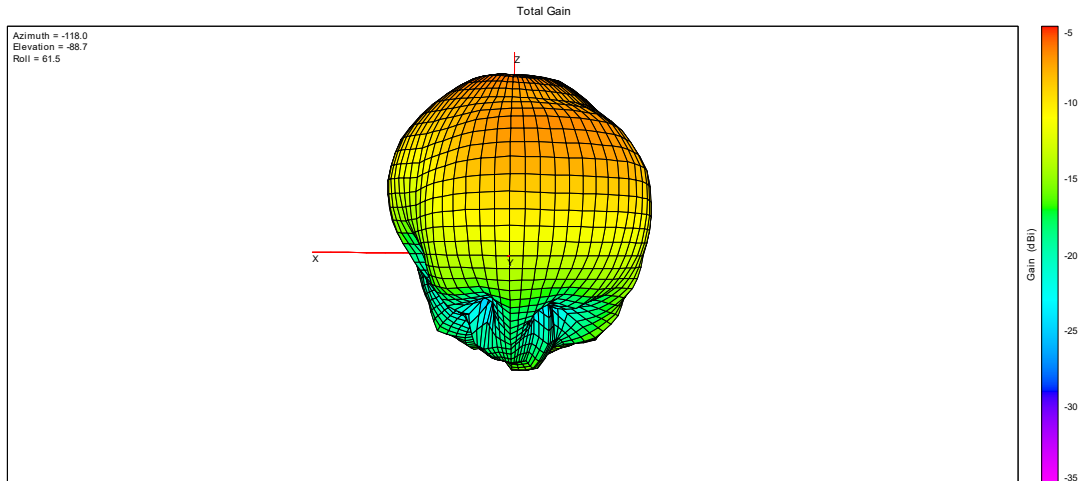
Gain data (Ant12)

3.15 ANT13

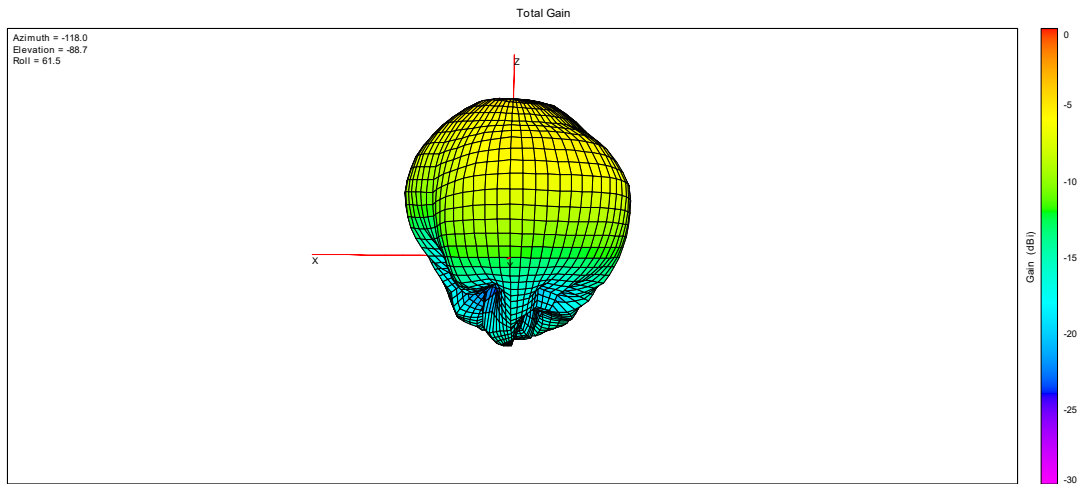
3.15.1 S11



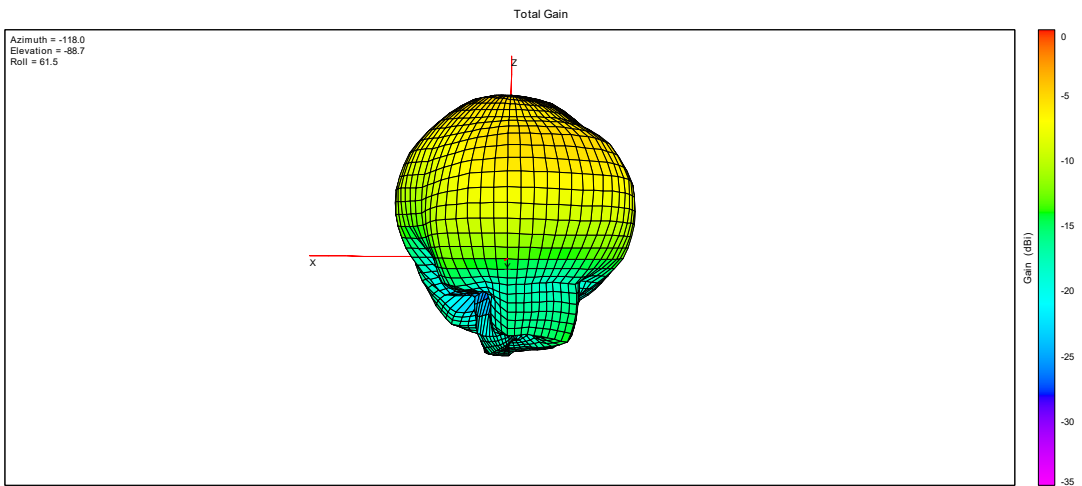
3.15.2 Gain



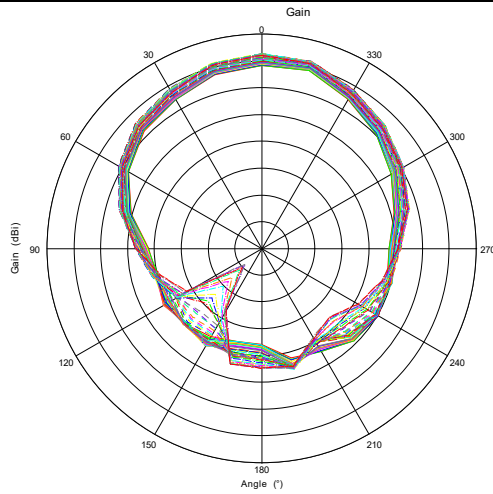
2402MHz



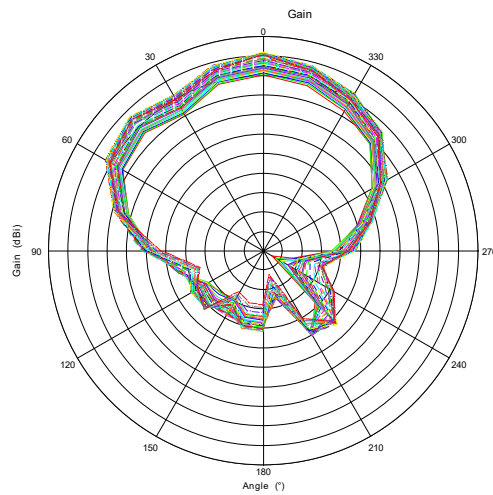
2440MHz



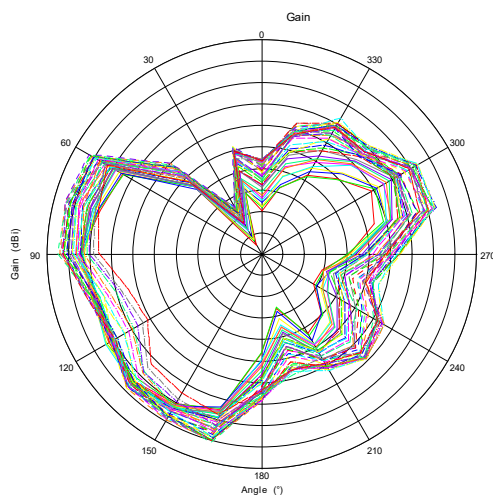
2480MHz



Phi=0°



Phi=90°



Theta=90°

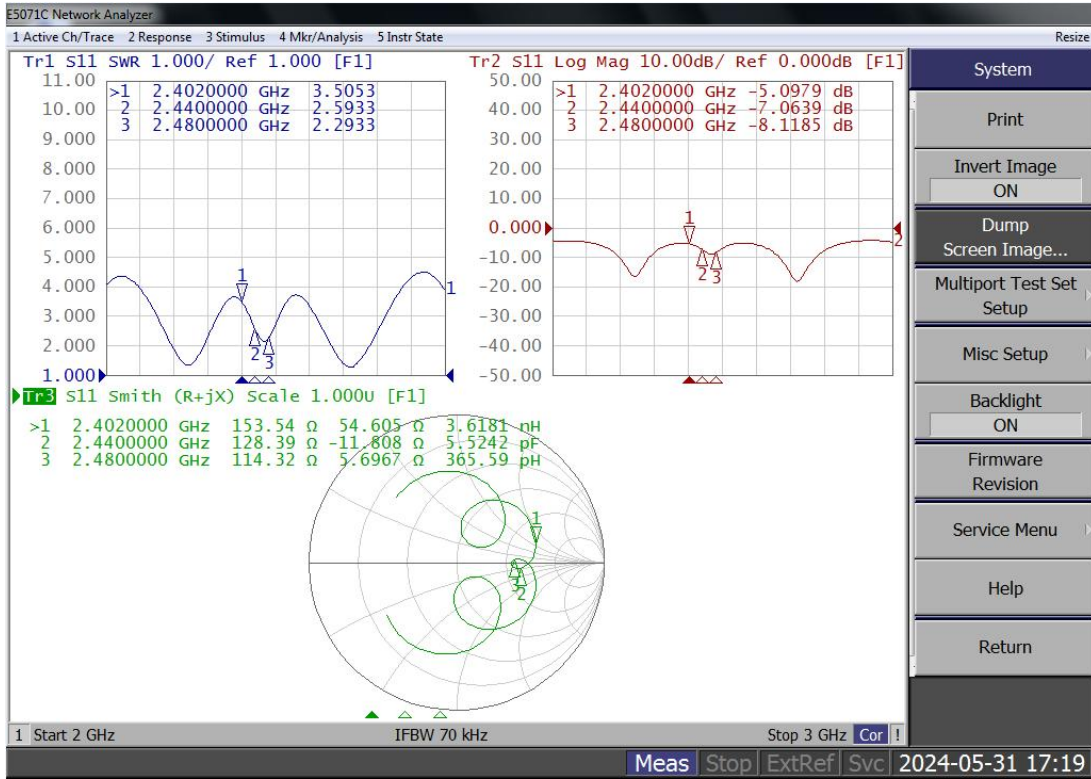


30# (MG2-13)			
频率(MHz)	效率(%)	增益(dBi)	PeakGain (dBi)
2400	6.12	-5.62	-3.53
2402	6.24	-5.57	
2404	6.41	-5.48	
2406	6.53	-5.43	
2408	6.63	-5.27	
2410	6.77	-5.22	
2412	6.82	-5.22	
2414	6.89	-5.18	
2416	7.06	-5.04	
2418	7.23	-5.00	
2420	7.33	-4.94	
2422	7.39	-4.86	
2424	7.53	-4.75	
2426	7.62	-4.77	
2428	7.70	-4.73	
2430	7.93	-4.61	
2432	8.10	-4.51	
2434	8.16	-4.49	
2436	8.30	-4.33	
2438	8.49	-4.28	
2440	8.62	-4.21	
2442	8.70	-4.18	
2444	8.87	-3.98	
2446	8.99	-3.96	
2448	9.04	-3.91	
2450	9.19	-3.81	
2452	9.42	-3.68	
2454	9.46	-3.68	
2456	9.42	-3.62	
2458	9.43	-3.56	
2460	9.43	-3.57	
2462	9.32	-3.62	
2464	9.28	-3.56	
2466	9.38	-3.53	
2468	9.27	-3.57	
2470	9.00	-3.63	
2472	8.91	-3.69	
2474	8.84	-3.69	
2476	8.62	-3.78	
2478	8.45	-3.88	
2480	8.40	-3.93	

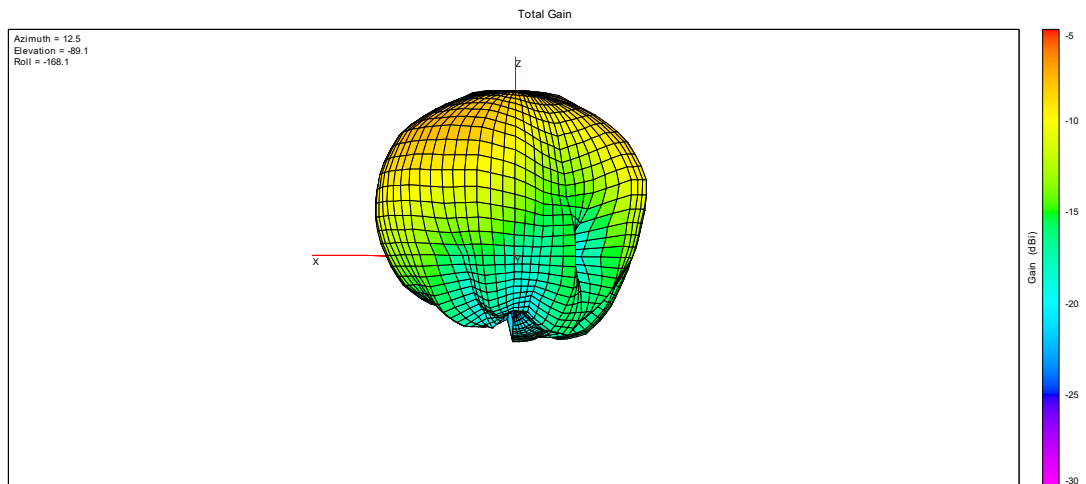
Gain data (Ant13)

3.16 ANT14

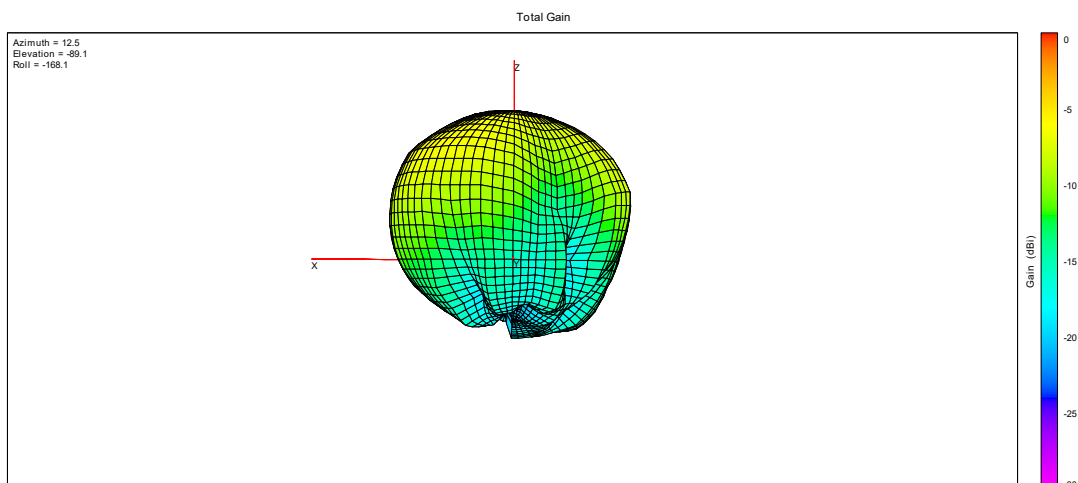
3.16.1 S11



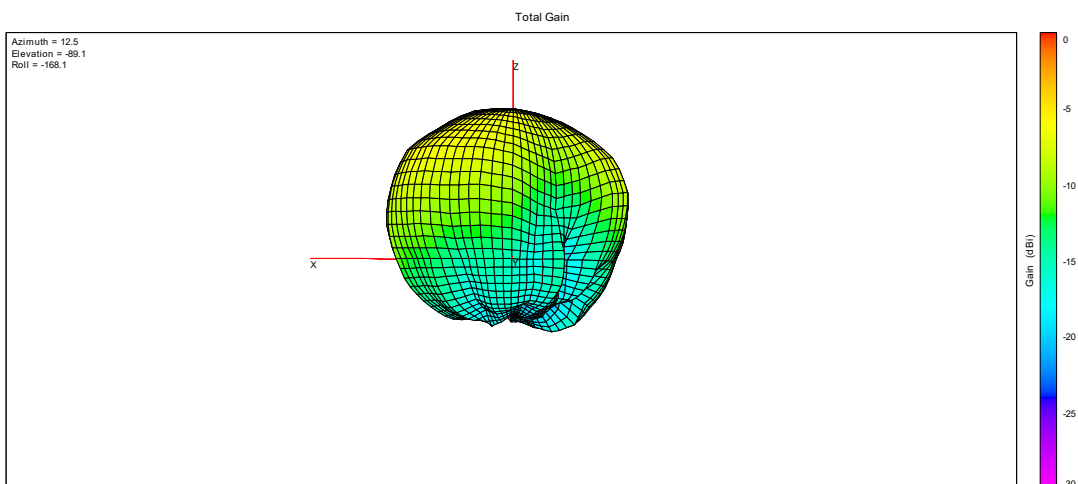
3.16.2 Gain



2402MHz

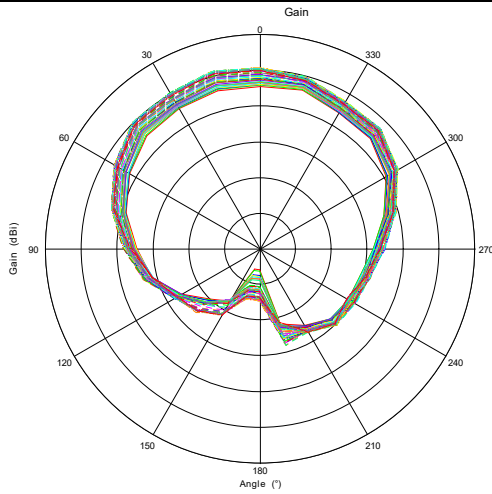


2440MHz

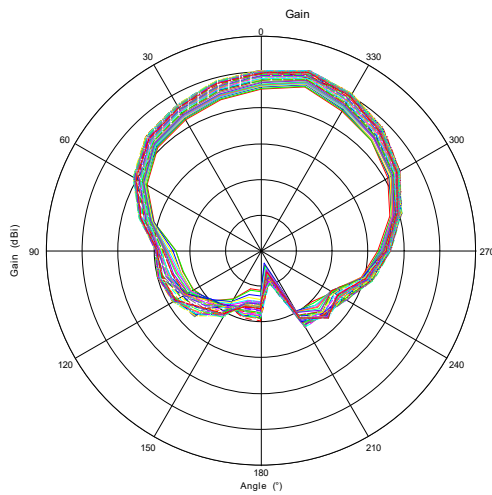


2480MHz

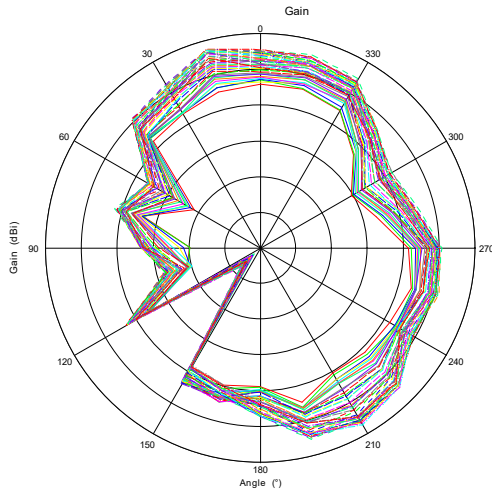
Max: 0
Min: -30
Scale: 5/div



Max: 0
Min: -30
Scale: 5/div



Max: -10
Min: -22
Scale: 2/div



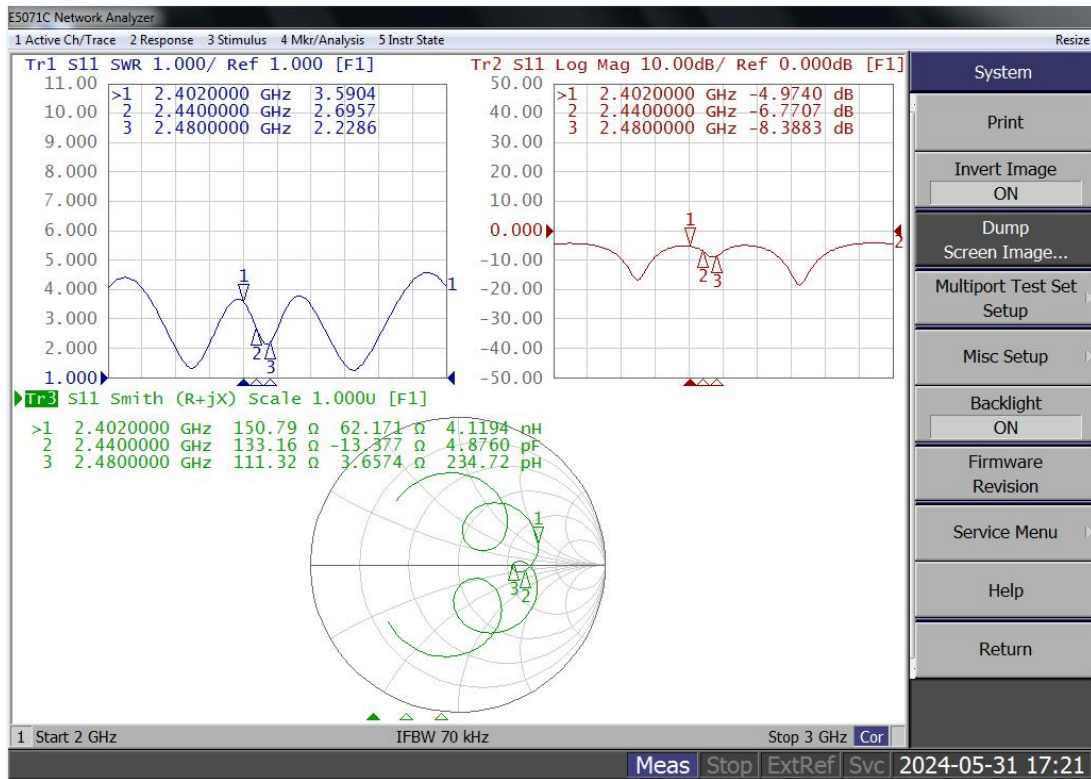


31# (MG2-14)			
频率 (MHz)	效率 (%)	增益 (dBi)	PeakGain (dBi)
2400	6.20	-6.35	-3.88
2402	6.35	-6.24	
2404	6.54	-6.03	
2406	6.65	-5.91	
2408	6.77	-5.81	
2410	6.91	-5.80	
2412	6.98	-5.67	
2414	7.05	-5.64	
2416	7.22	-5.48	
2418	7.40	-5.35	
2420	7.53	-5.29	
2422	7.59	-5.21	
2424	7.73	-5.17	
2426	7.82	-5.11	
2428	7.90	-5.10	
2430	8.14	-4.92	
2432	8.33	-4.78	
2434	8.40	-4.78	
2436	8.55	-4.70	
2438	8.78	-4.56	
2440	8.90	-4.47	
2442	8.99	-4.40	
2444	9.19	-4.28	
2446	9.31	-4.26	
2448	9.38	-4.21	
2450	9.56	-4.12	
2452	9.81	-3.99	
2454	9.90	-3.90	
2456	9.86	-3.93	
2458	9.88	-3.91	
2460	9.91	-3.88	
2462	9.79	-3.94	
2464	9.76	-3.93	
2466	9.88	-3.90	
2468	9.80	-3.91	
2470	9.51	-4.02	
2472	9.44	-4.04	
2474	9.38	-4.07	
2476	9.14	-4.18	
2478	8.95	-4.25	
2480	8.90	-4.25	

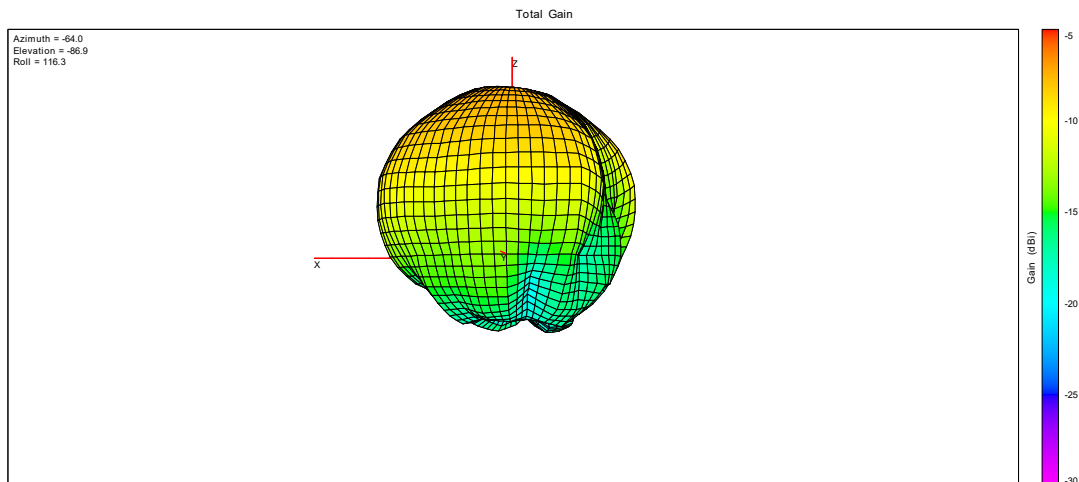
Gain data (Ant14)

3.17 ANT15

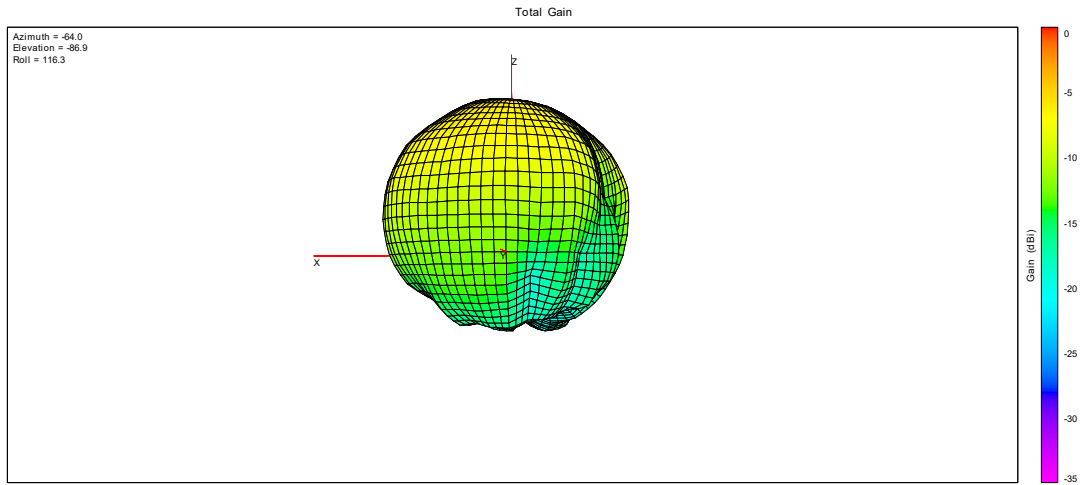
3.17.1 S11



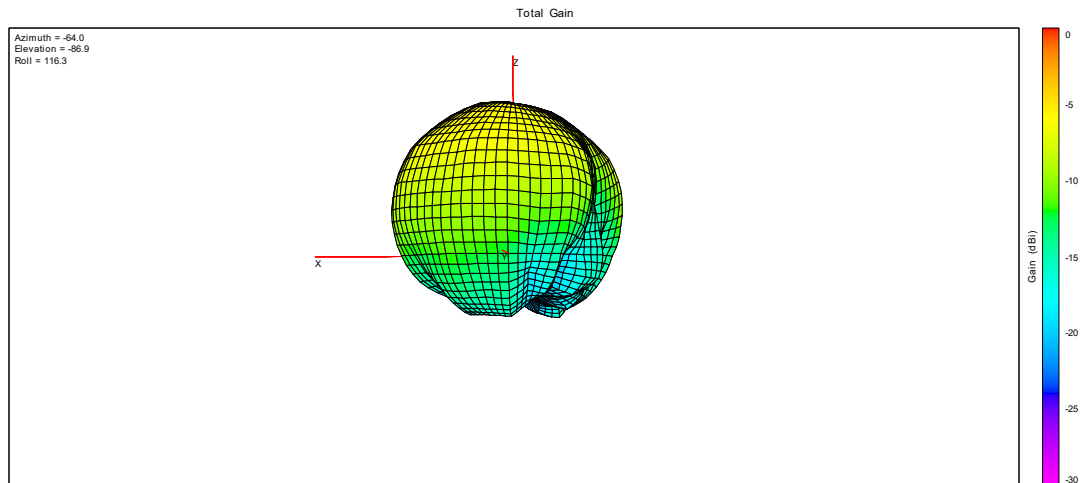
3.17.2 Gain



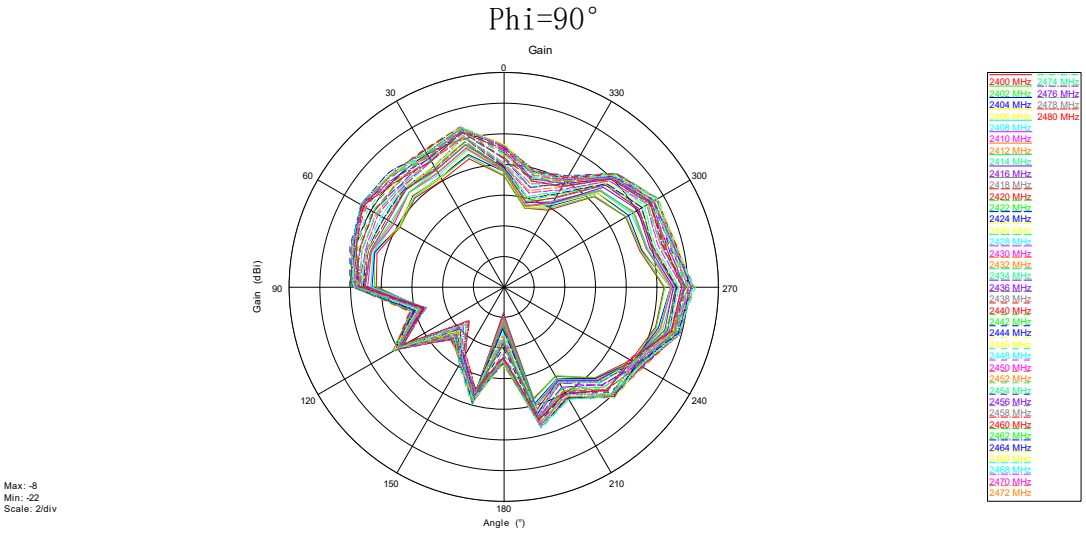
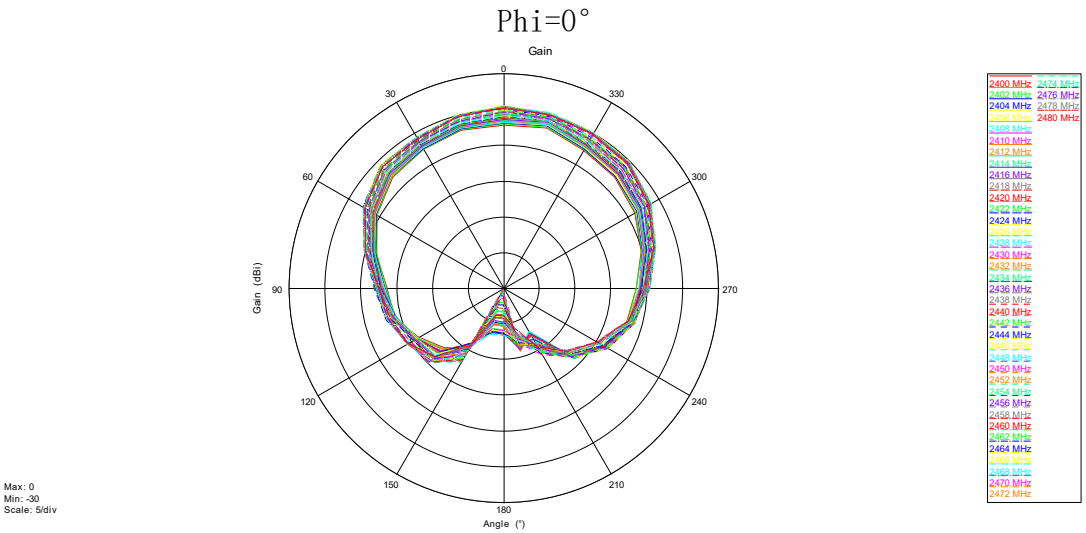
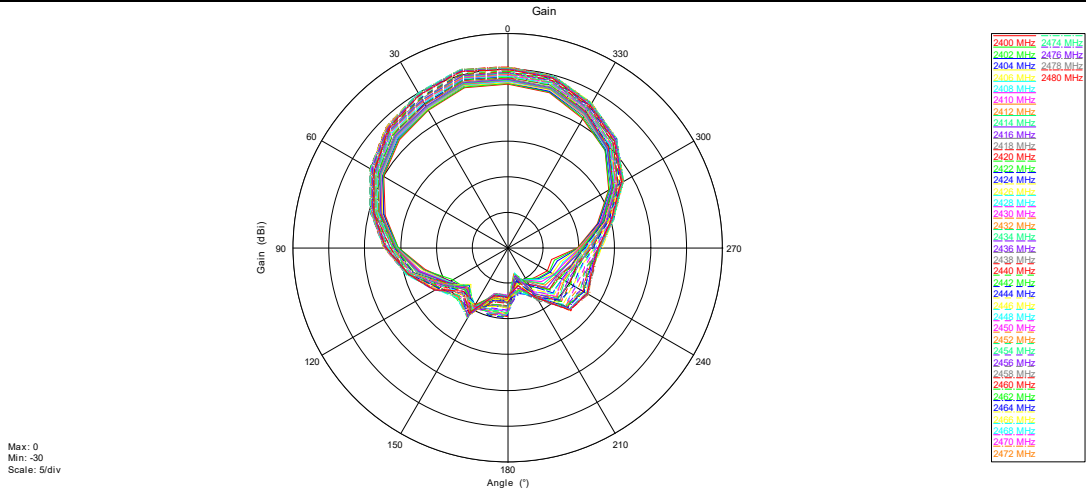
2402MHz



2440MHz



2480MHz



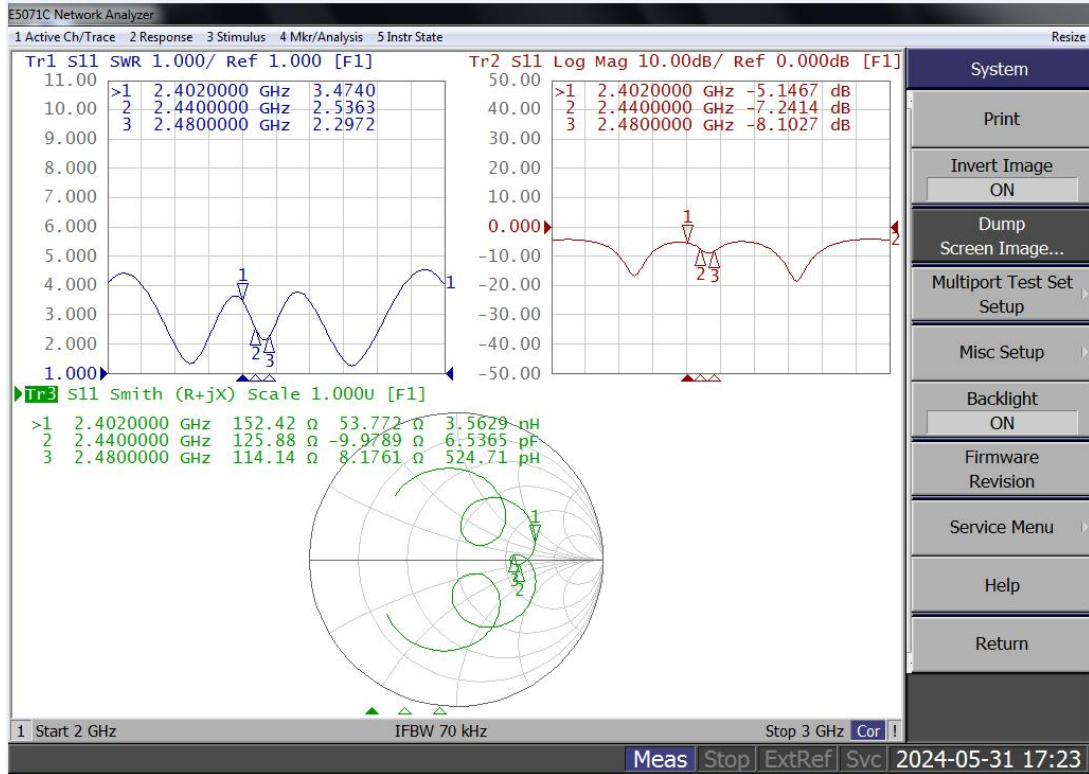


32# (MG2-15)			
频率 (MHz)	效率 (%)	增益 (dBi)	PeakGain (dBi)
2400	6.25	-6.63	-3.97
2402	6.40	-6.51	
2404	6.57	-6.35	
2406	6.69	-6.22	
2408	6.80	-6.13	
2410	6.93	-6.01	
2412	6.98	-6.00	
2414	7.06	-5.94	
2416	7.21	-5.82	
2418	7.40	-5.62	
2420	7.51	-5.58	
2422	7.58	-5.52	
2424	7.71	-5.46	
2426	7.81	-5.36	
2428	7.88	-5.33	
2430	8.12	-5.17	
2432	8.30	-5.06	
2434	8.37	-4.99	
2436	8.53	-4.92	
2438	8.75	-4.80	
2440	8.88	-4.65	
2442	8.98	-4.60	
2444	9.20	-4.46	
2446	9.32	-4.45	
2448	9.41	-4.41	
2450	9.60	-4.31	
2452	9.89	-4.18	
2454	9.98	-4.10	
2456	9.96	-4.06	
2458	10.00	-4.03	
2460	10.05	-4.03	
2462	9.96	-4.08	
2464	9.94	-4.04	
2466	10.09	-3.97	
2468	10.02	-3.98	
2470	9.74	-4.06	
2472	9.70	-4.07	
2474	9.65	-4.11	
2476	9.41	-4.18	
2478	9.23	-4.27	
2480	9.18	-4.28	

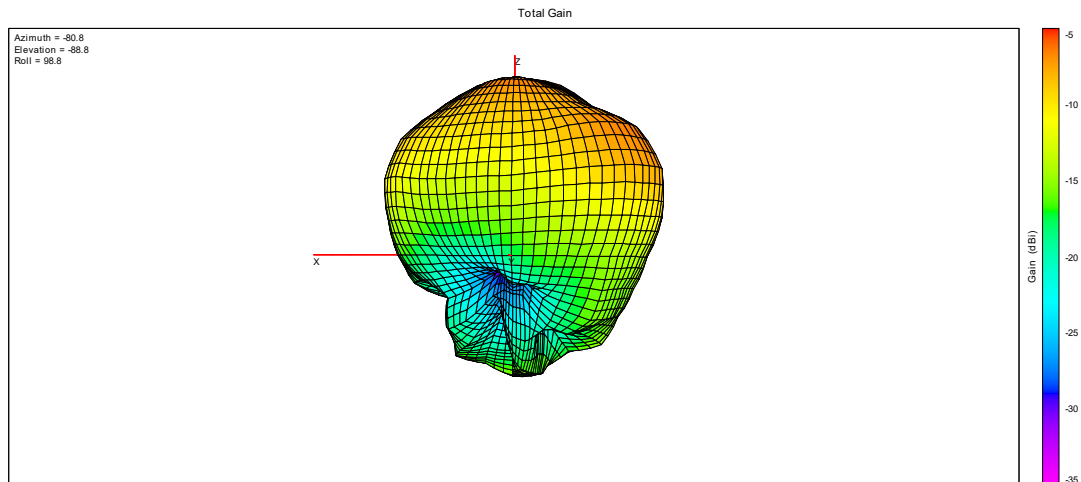
Gain data (Ant15)

3.18 ANT16

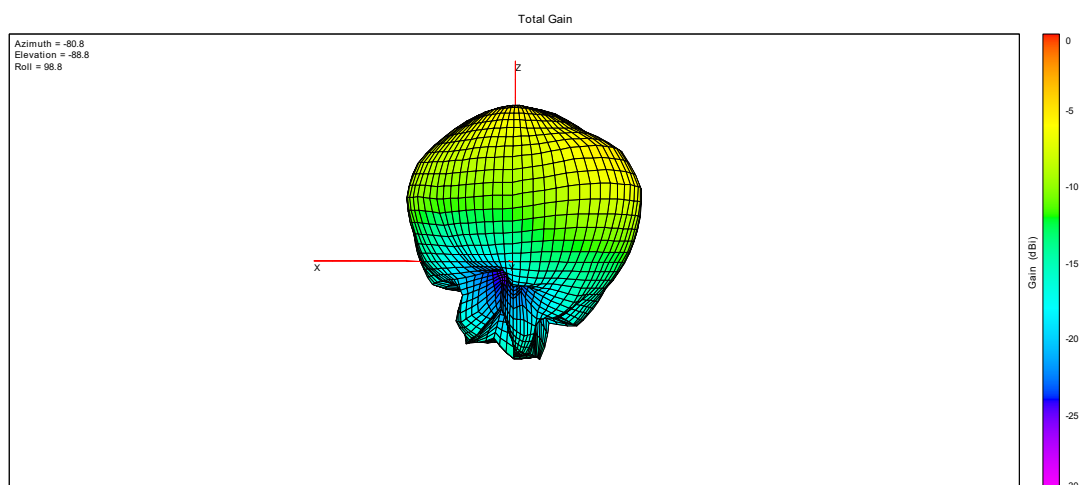
3.18.1 S11



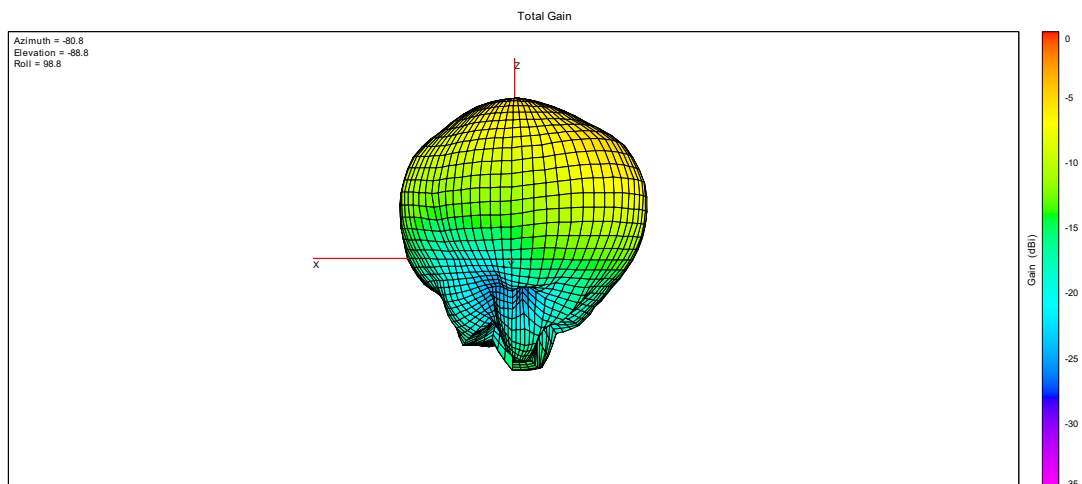
3.18.2 Gain



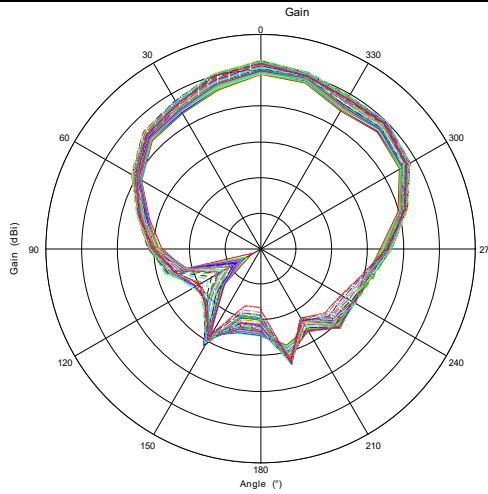
2402MHz



2440MHz



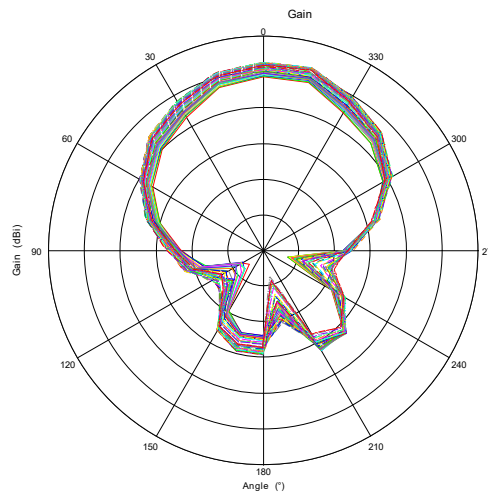
2480MHz



Max: 0
Min: -30
Scale: 5/div

2400 MHz	2474 MHz
2402 MHz	2476 MHz
2404 MHz	2478 MHz
2406 MHz	2479 MHz
2408 MHz	2480 MHz
2410 MHz	
2412 MHz	
2414 MHz	
2416 MHz	
2418 MHz	
2420 MHz	
2422 MHz	
2424 MHz	
2426 MHz	
2428 MHz	
2430 MHz	
2432 MHz	
2434 MHz	
2436 MHz	
2438 MHz	
2440 MHz	
2442 MHz	
2444 MHz	
2446 MHz	
2448 MHz	
2450 MHz	
2452 MHz	
2454 MHz	
2456 MHz	
2458 MHz	
2460 MHz	
2462 MHz	
2464 MHz	
2466 MHz	
2468 MHz	
2470 MHz	
2472 MHz	

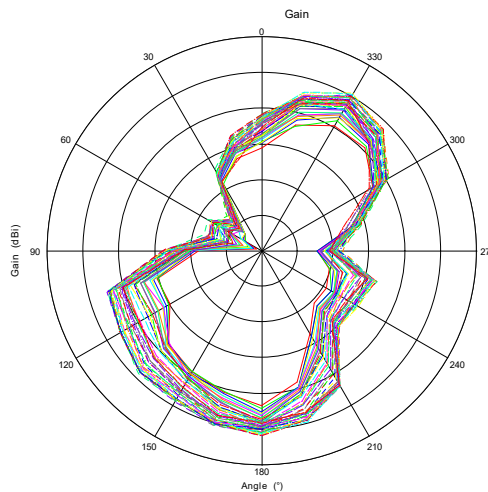
Phi=0°



Max: 0
Min: -30
Scale: 5/div

2400 MHz	2474 MHz
2402 MHz	2476 MHz
2404 MHz	2478 MHz
2406 MHz	2479 MHz
2408 MHz	2480 MHz
2410 MHz	
2412 MHz	
2414 MHz	
2416 MHz	
2418 MHz	
2420 MHz	
2422 MHz	
2424 MHz	
2426 MHz	
2428 MHz	
2430 MHz	
2432 MHz	
2434 MHz	
2436 MHz	
2438 MHz	
2440 MHz	
2442 MHz	
2444 MHz	
2446 MHz	
2448 MHz	
2450 MHz	
2452 MHz	
2454 MHz	
2456 MHz	
2458 MHz	
2460 MHz	
2462 MHz	
2464 MHz	
2466 MHz	
2468 MHz	
2470 MHz	
2472 MHz	

Phi=90°



Max: -10
Min: -22
Scale: 2/div

2400 MHz	2474 MHz
2402 MHz	2476 MHz
2404 MHz	2478 MHz
2406 MHz	2479 MHz
2408 MHz	2480 MHz
2410 MHz	
2412 MHz	
2414 MHz	
2416 MHz	
2418 MHz	
2420 MHz	
2422 MHz	
2424 MHz	
2426 MHz	
2428 MHz	
2430 MHz	
2432 MHz	
2434 MHz	
2436 MHz	
2438 MHz	
2440 MHz	
2442 MHz	
2444 MHz	
2446 MHz	
2448 MHz	
2450 MHz	
2452 MHz	
2454 MHz	
2456 MHz	
2458 MHz	
2460 MHz	
2462 MHz	
2464 MHz	
2466 MHz	
2468 MHz	
2470 MHz	
2472 MHz	

Theta=90°



深圳云里物里科技股份有限公司
产品天线测试报告 (The Antenna Test Report)

Y-YB-CR-115

V001

密级: 绝密 /confidentiality

33# (MG2-16)			
频率 (MHz)	效率 (%)	增益 (dBi)	PeakGain (dBi)
2400	5.88	-5.35	-3.39
2402	6.01	-5.23	
2404	6.18	-5.11	
2406	6.27	-5.00	
2408	6.38	-5.02	
2410	6.50	-4.95	
2412	6.55	-4.95	
2414	6.62	-4.92	
2416	6.76	-4.83	
2418	6.92	-4.69	
2420	7.03	-4.64	
2422	7.08	-4.59	
2424	7.21	-4.55	
2426	7.29	-4.49	
2428	7.36	-4.46	
2430	7.59	-4.37	
2432	7.76	-4.24	
2434	7.81	-4.20	
2436	7.93	-4.12	
2438	8.13	-4.03	
2440	8.24	-3.90	
2442	8.32	-3.88	
2444	8.50	-3.77	
2446	8.60	-3.76	
2448	8.66	-3.73	
2450	8.80	-3.66	
2452	9.01	-3.48	
2454	9.07	-3.39	
2456	9.00	-3.40	
2458	9.01	-3.39	
2460	9.03	-3.43	
2462	8.90	-3.47	
2464	8.86	-3.49	
2466	8.94	-3.42	
2468	8.86	-3.41	
2470	8.57	-3.59	
2472	8.49	-3.59	
2474	8.42	-3.63	
2476	8.19	-3.76	
2478	8.03	-3.80	
2480	7.96	-3.83	

Gain data (Ant16)