

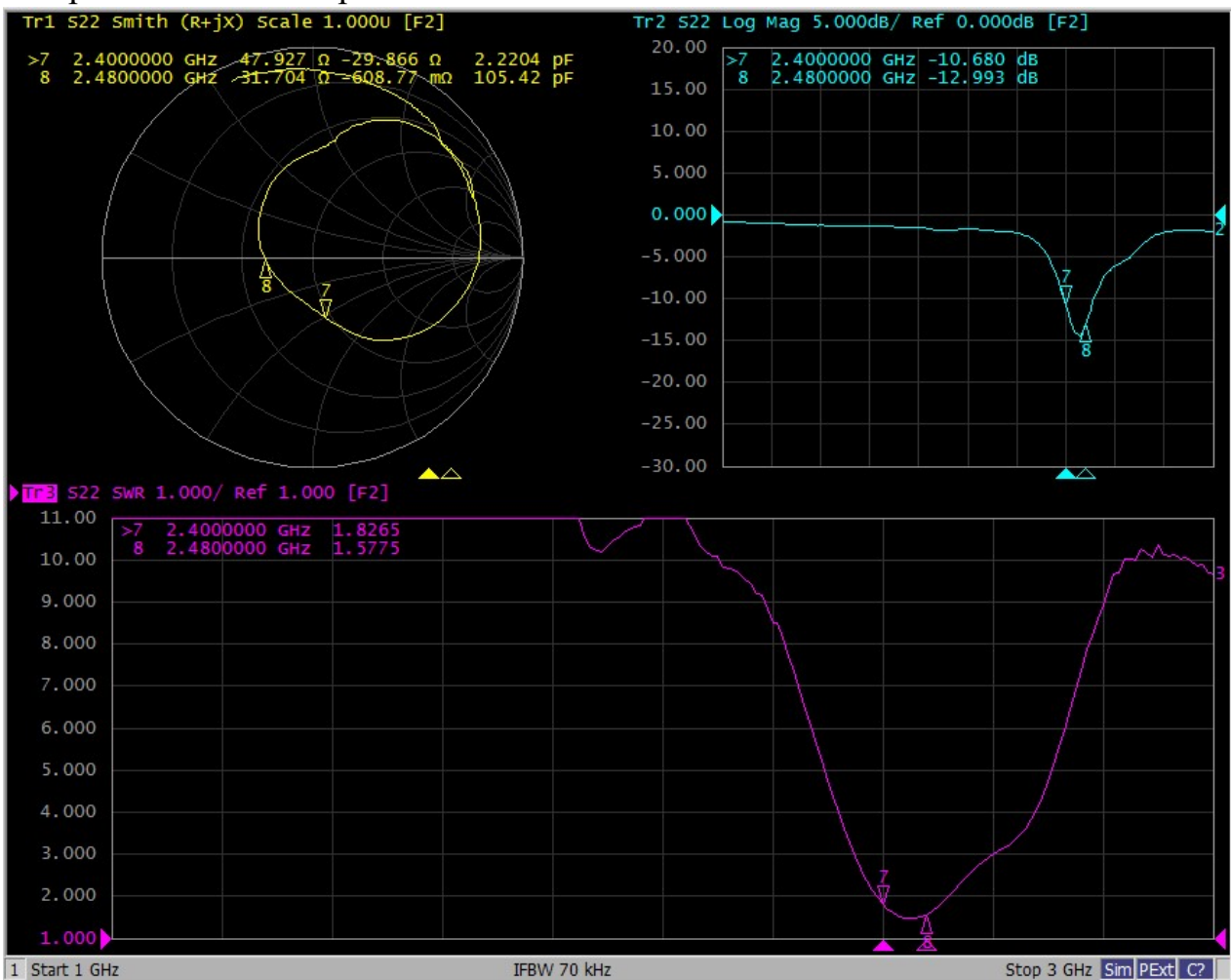


I: The report of passive data



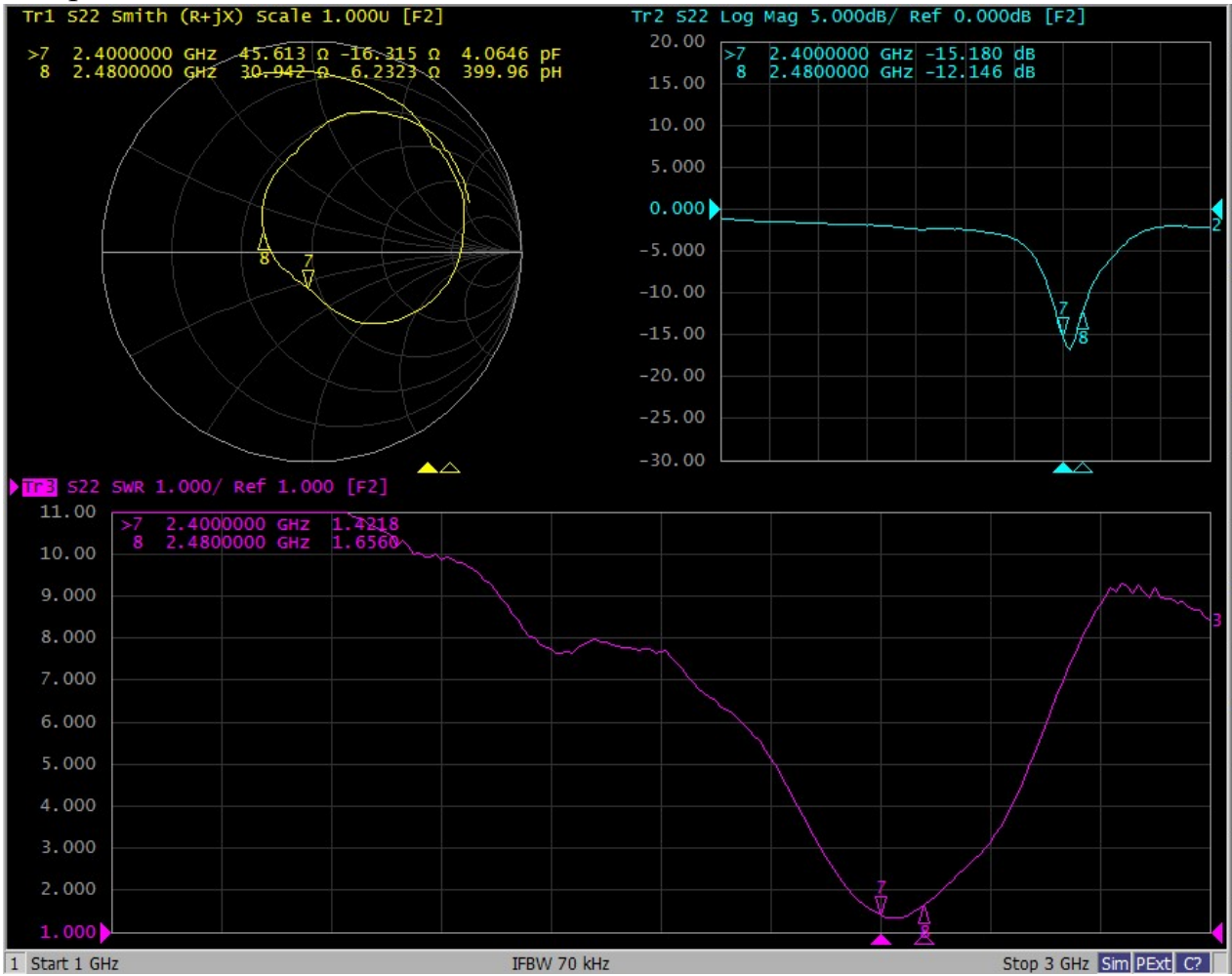
Angilent E5071C

S11 parameter (Free space) :





S11 parameter (Headform) :





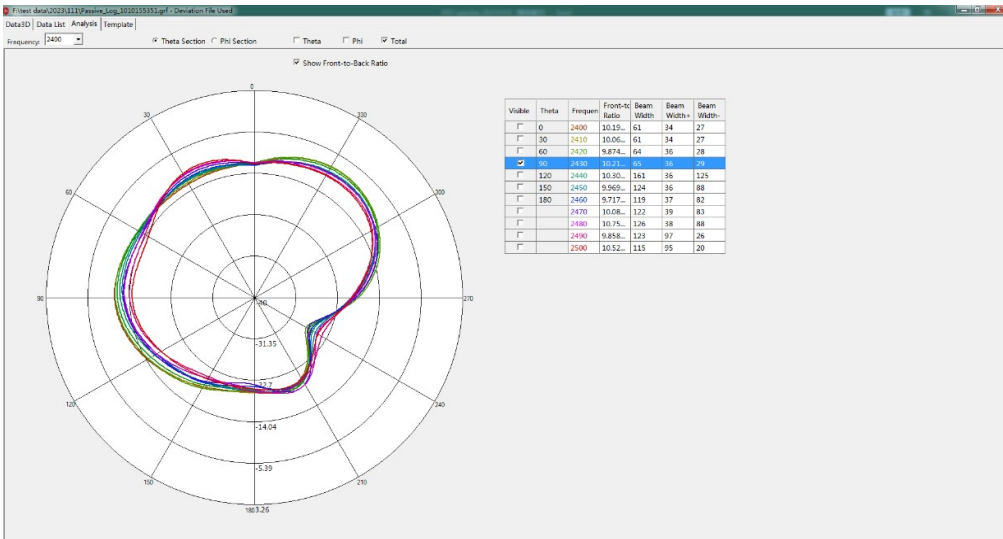
Efficiency:

Free space			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency
2400	-3.51	-6.13	24.38%
2410	-3.30	-5.91	25.63%
2420	-3.06	-5.68	27.03%
2430	-2.93	-5.67	27.13%
2440	-2.87	-5.70	26.94%
2450	-2.65	-5.54	27.95%
2460	-2.74	-5.64	27.30%
2470	-2.54	-5.43	28.65%
2480	-2.46	-5.26	29.76%
2490	-2.67	-5.51	28.09%
2500	-2.83	-5.70	26.93%
Average value	-2.87	-5.65	27.25%

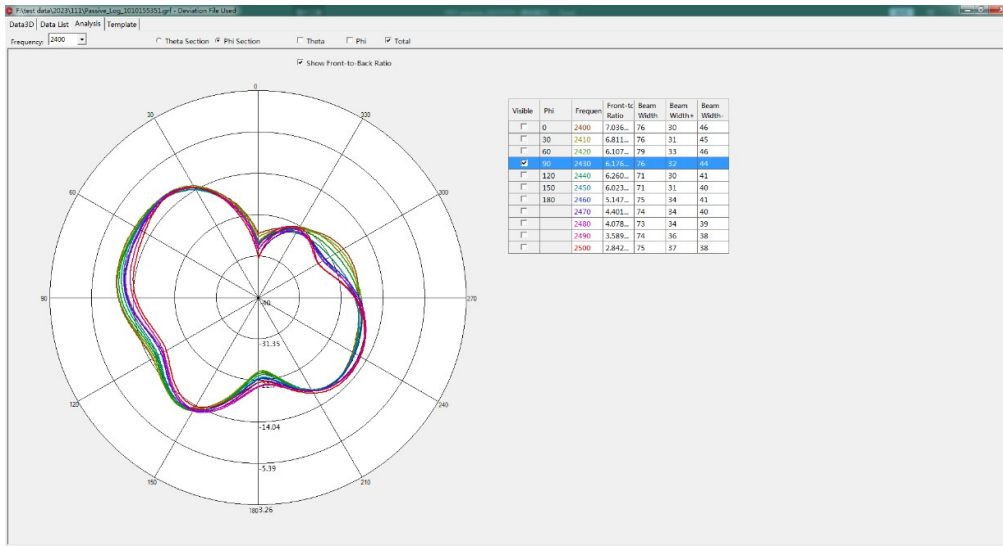
Headform			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency
2400	-4.81	-12.33	5.85%
2410	-4.65	-12.15	6.10%
2420	-4.57	-11.99	6.32%
2430	-4.77	-12.10	6.17%
2440	-4.98	-12.26	5.94%
2450	-4.96	-12.20	6.03%
2460	-5.16	-12.36	5.81%
2470	-5.13	-12.18	6.05%
2480	-5.24	-12.05	6.24%
2490	-5.70	-12.38	5.79%
2500	-5.96	-12.59	5.51%
Average value	-5.09	-12.23	5.98%



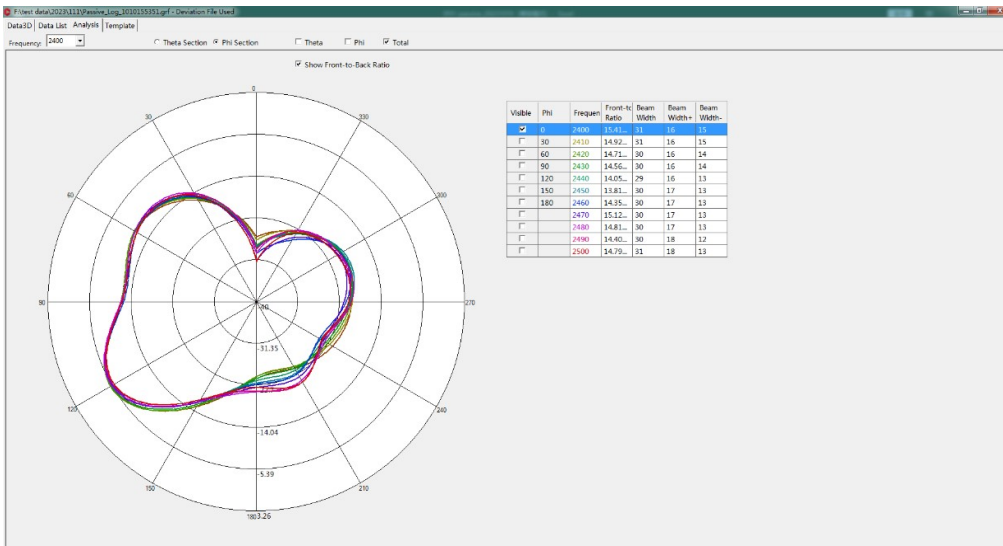
Antenna radiation pattern (Free space) :
Theta=90.00deg



Phi=90.00deg

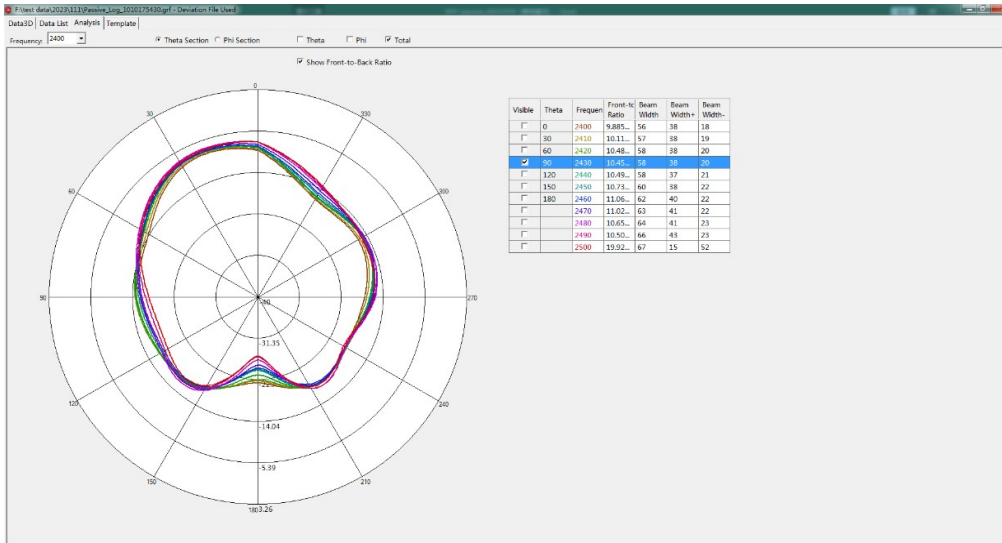


Phi=0.00deg

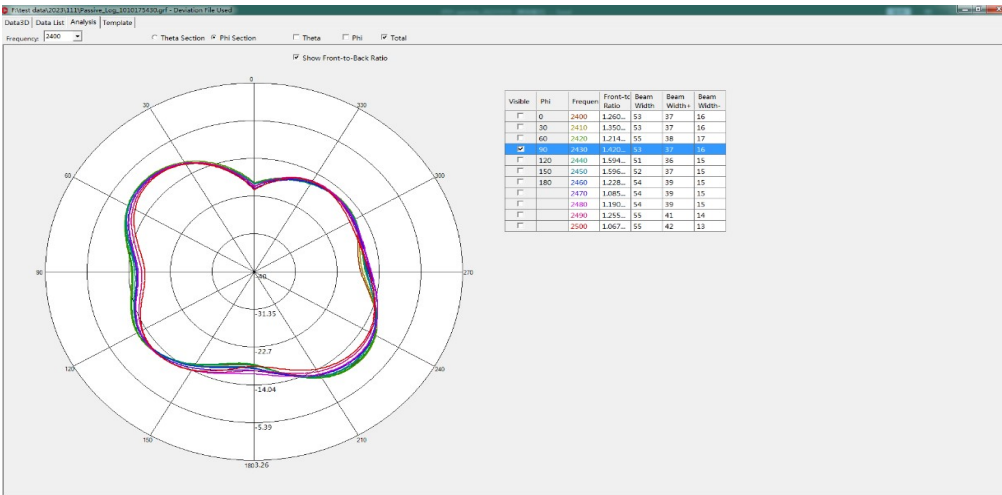




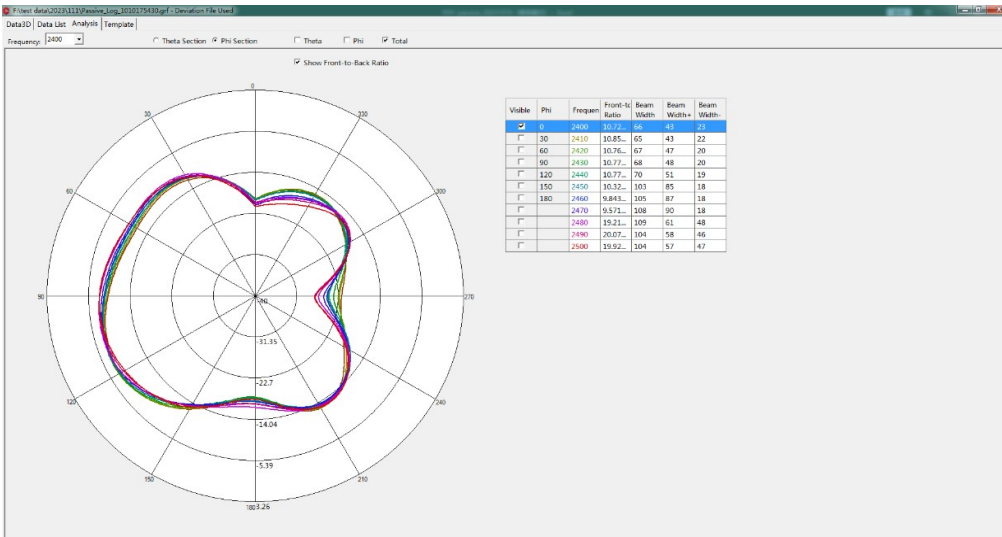
Antenna radiation pattern (Headform) :
Theta=90.00deg



Phi=90.00deg

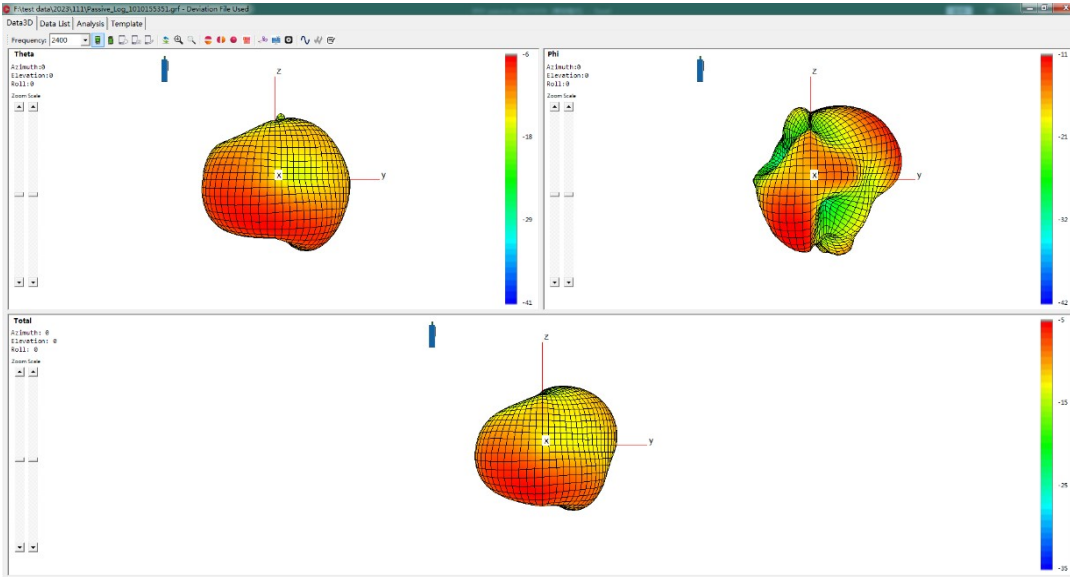


Phi=0.00deg

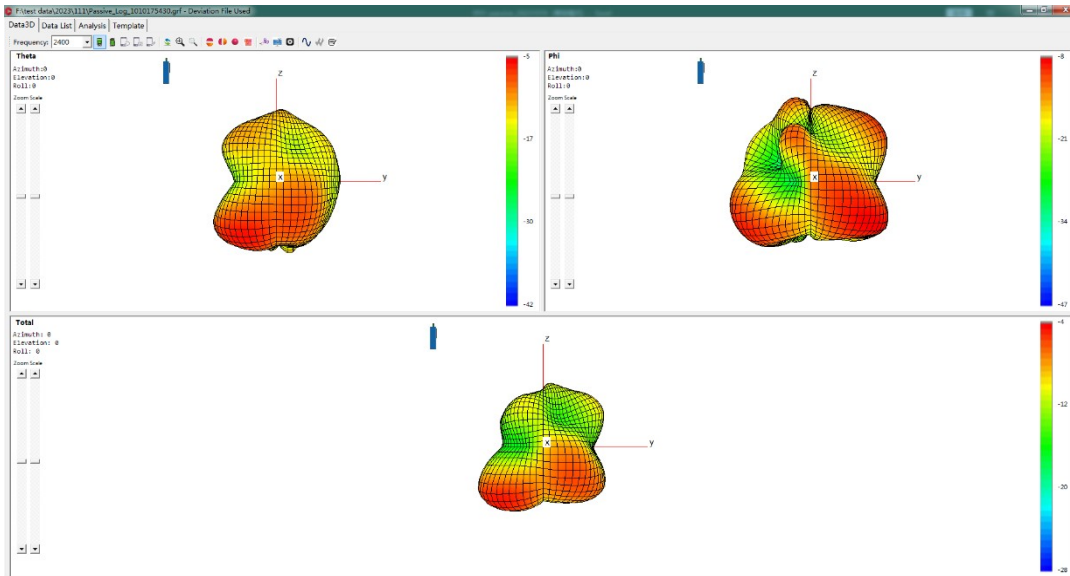




3D Antenna radiation pattern (Free space) :



3D Antenna radiation pattern (Headform) :





II: 3D Active test report of antenna

Free space	Channel	TRP (dBm)	TIS(dBm)
L	CH 0	-0.2	-86.5
	CH 39	1.0	-88.4
	CH 78	-1.2	-87.4

Headform	Channel	TRP (dBm)	TIS(dBm)
L	CH 0	-1.1	-85.8
	CH 39	-2.8	-85.1
	CH 78	-3.9	-84.5



OTA Standard Chamber



III: Structure file

