

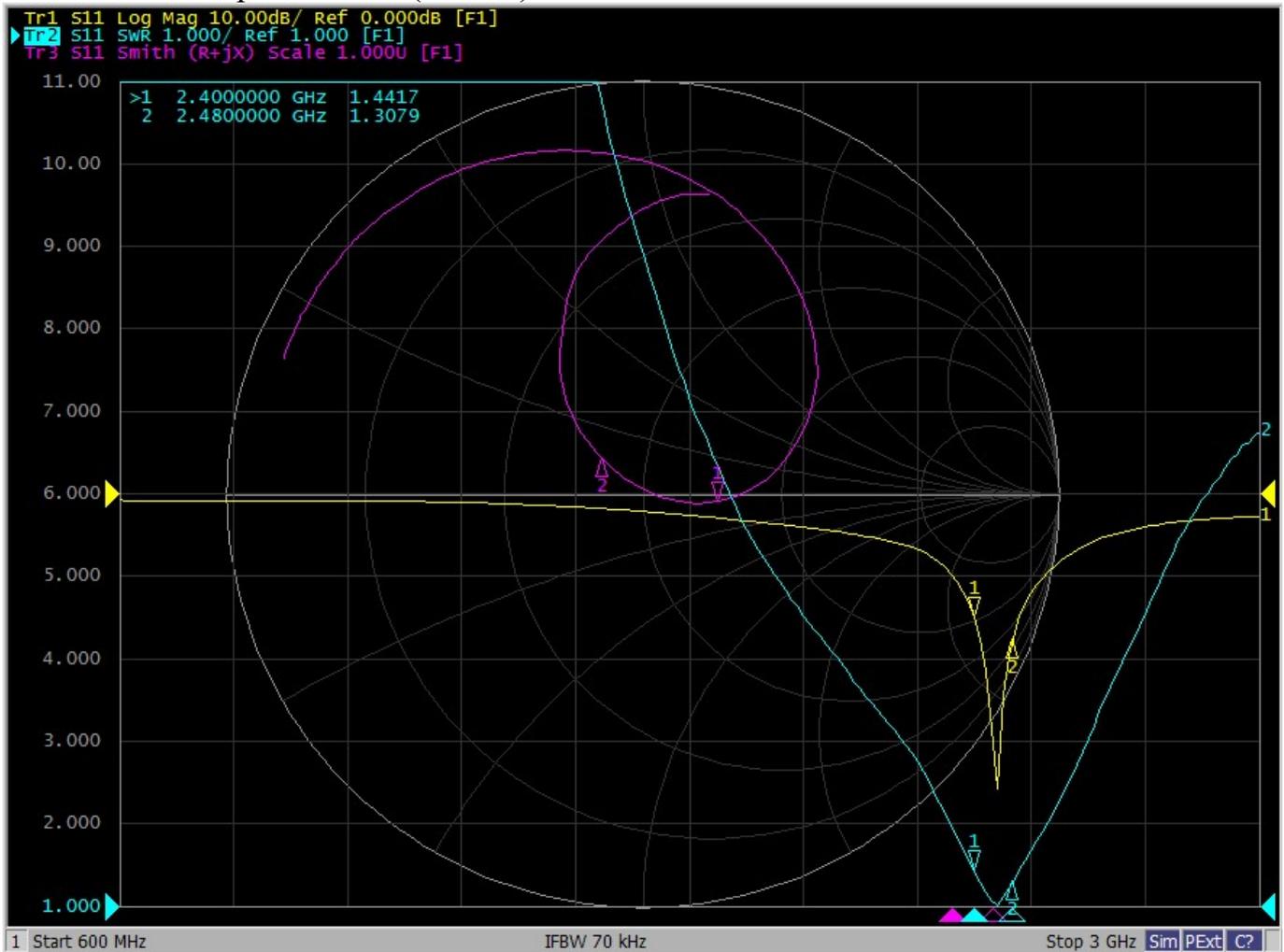


I: The report of passive data



Angilent E5071C

BT antenna S11 parameters: (left ear)





Efficiency: (Left ear free)

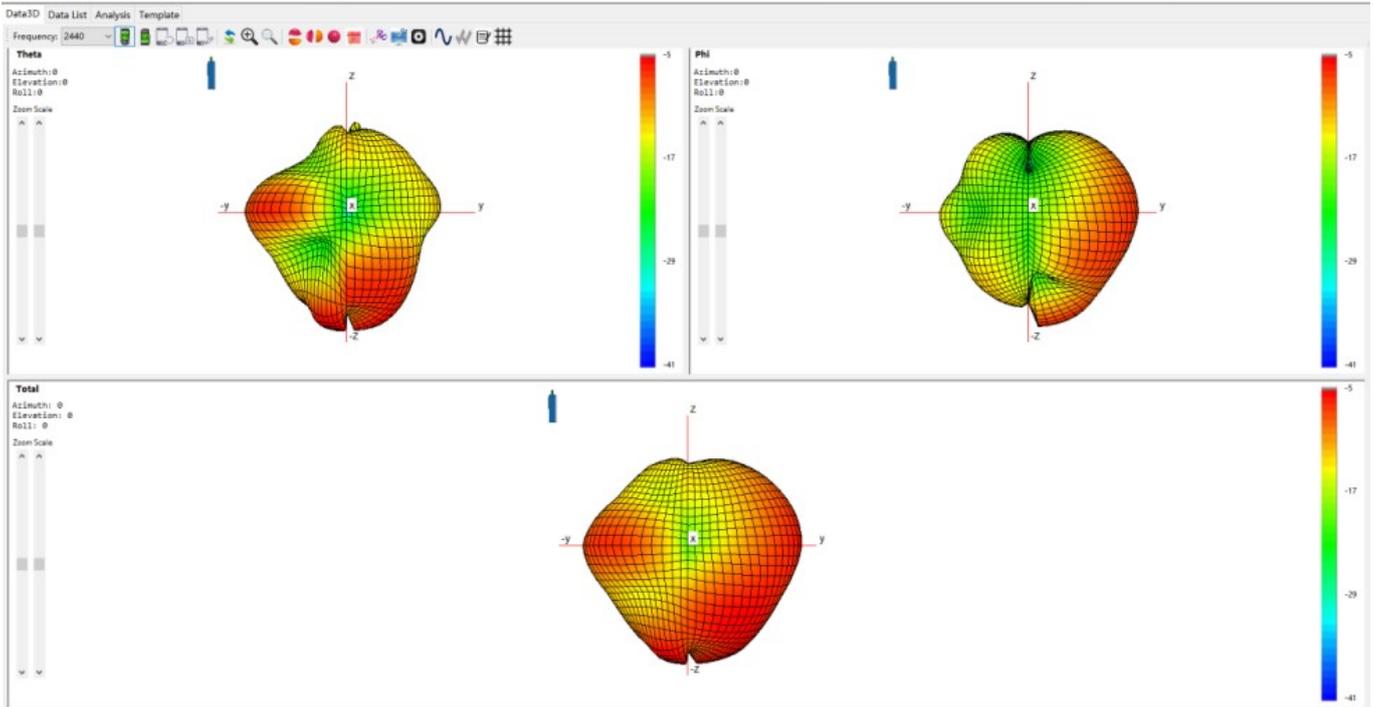
L: PIFA+parasitic; free			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	35.0%	-4.56	-1.64
2410	38.5%	-4.15	-1.20
2420	41.0%	-3.87	-0.87
2430	41.7%	-3.80	-0.77
2440	41.6%	-3.81	-0.68
2450	40.4%	-3.93	-0.62
2460	38.8%	-4.12	-0.69
2470	36.5%	-4.37	-0.82
2480	34.8%	-4.58	-0.91
AVG	38.7%	-4.13	-0.91

Efficiency: (Left Ear Head Model)

L: PIFA+parasitic; Head Model			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	6.8%	-11.67	-5.03
2410	7.2%	-11.42	-4.96
2420	7.6%	-11.22	-4.93
2430	7.7%	-11.15	-5.07
2440	7.8%	-11.07	-5.20
2450	7.9%	-11.05	-4.95
2460	7.8%	-11.07	-4.68
2470	7.7%	-11.14	-4.43
2480	7.6%	-11.21	-4.21
AVG	7.6%	-11.22	-4.83

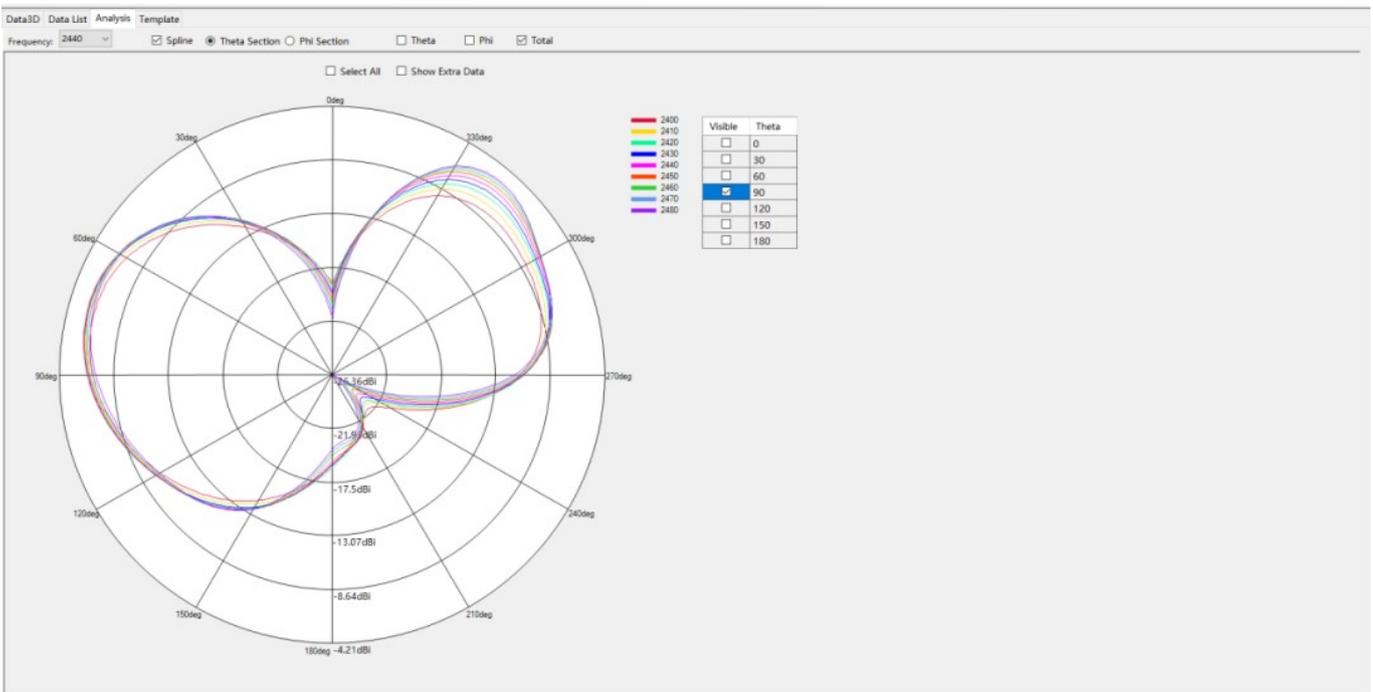


3D Antenna radiation pattern: (Left Ear Head Model)



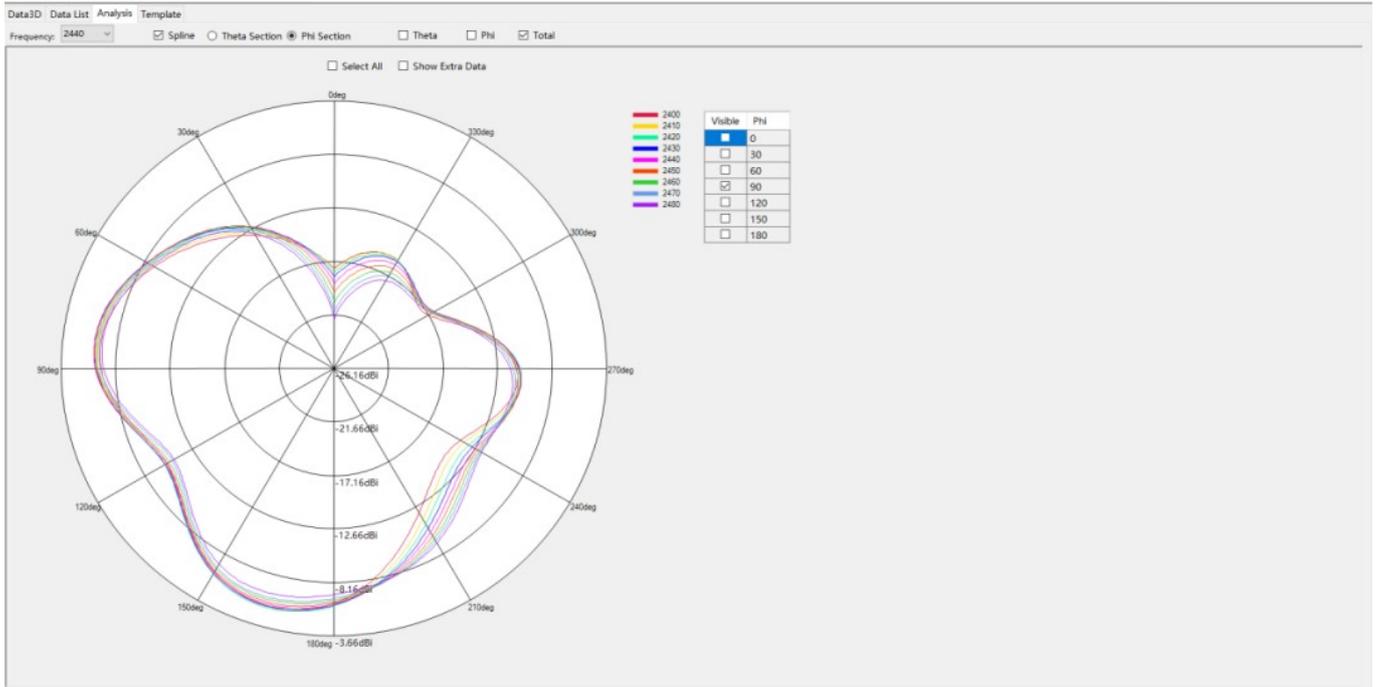
2D Antenna radiation pattern: (Left Ear Head Model)

Theta=90°

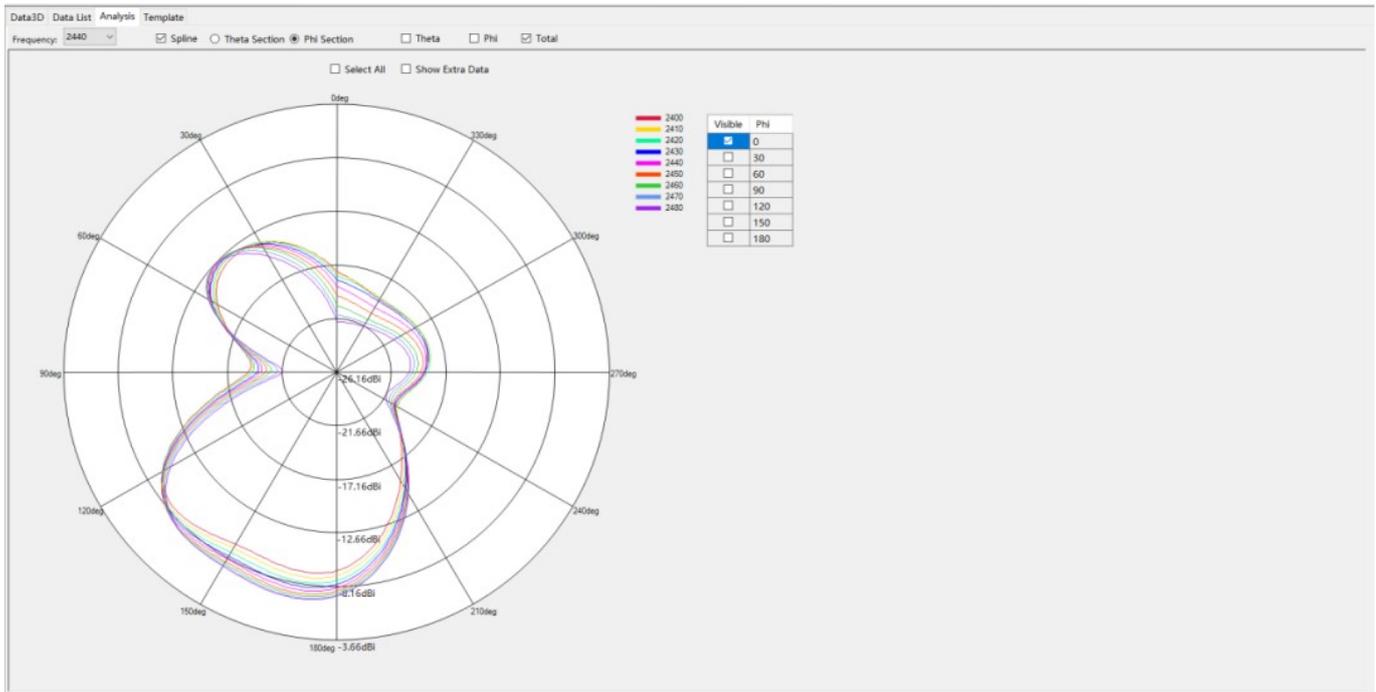




$\Phi=90^\circ$



$\Phi=0^\circ$





II: 3D Active test report of antenna

		free		Head Model	
L	Channel	TRP	TIS	TRP	TIS
	0	8.6	-91.4	-1.5	-82.5
	39	8.7	-91.6	-1.1	-83.7
	78	8.1	-91.4	-1.5	-83.6

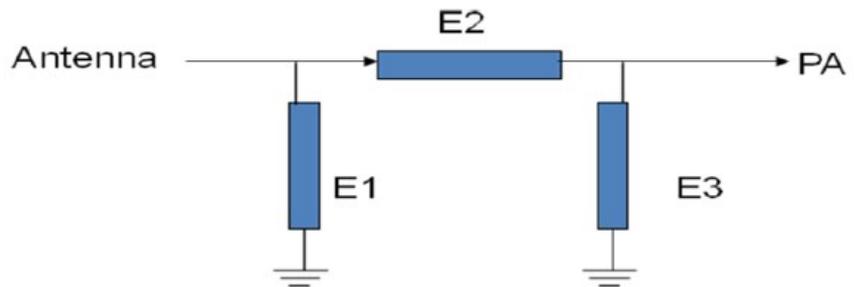


OTA Standard Chamber

III: Matching circuit

Antenna matching circuit (left ear)

Element	Value
E1	N/A
E2	0 Ω
E3	N/A





IV: Antenna structure diagram file

