



Middy antenna Measurement Report

CEB005L

CEB005R

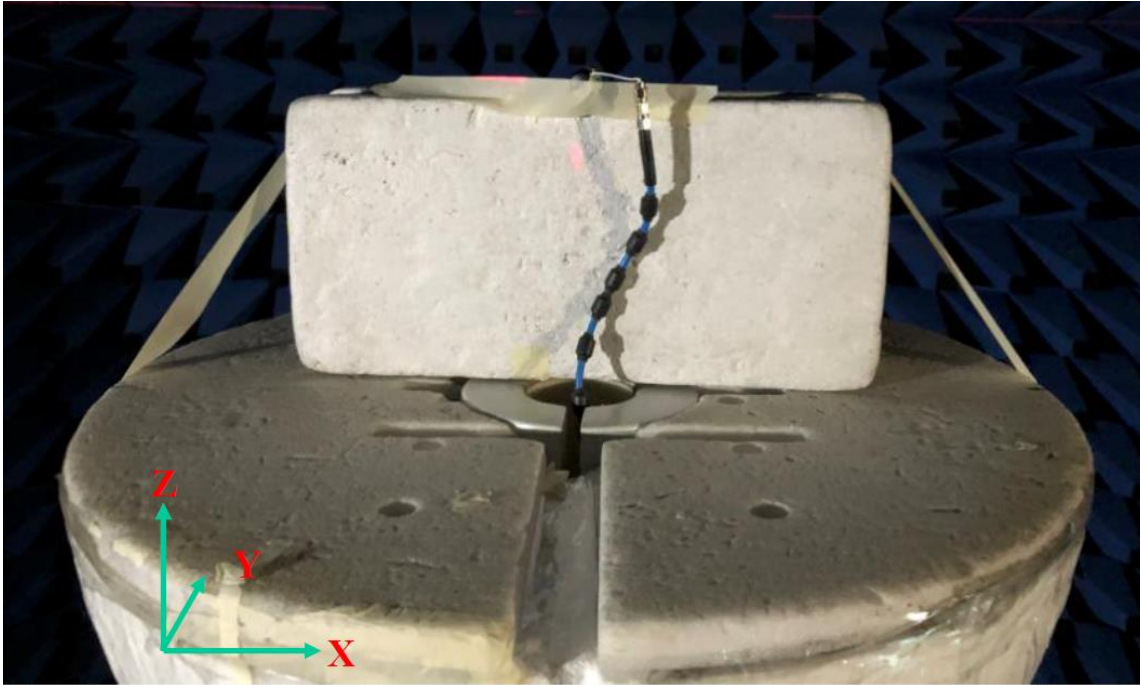
Manufacturing name:

Dongguan Dongcheng Tymphany Acoustic Technology Co., Ltd.

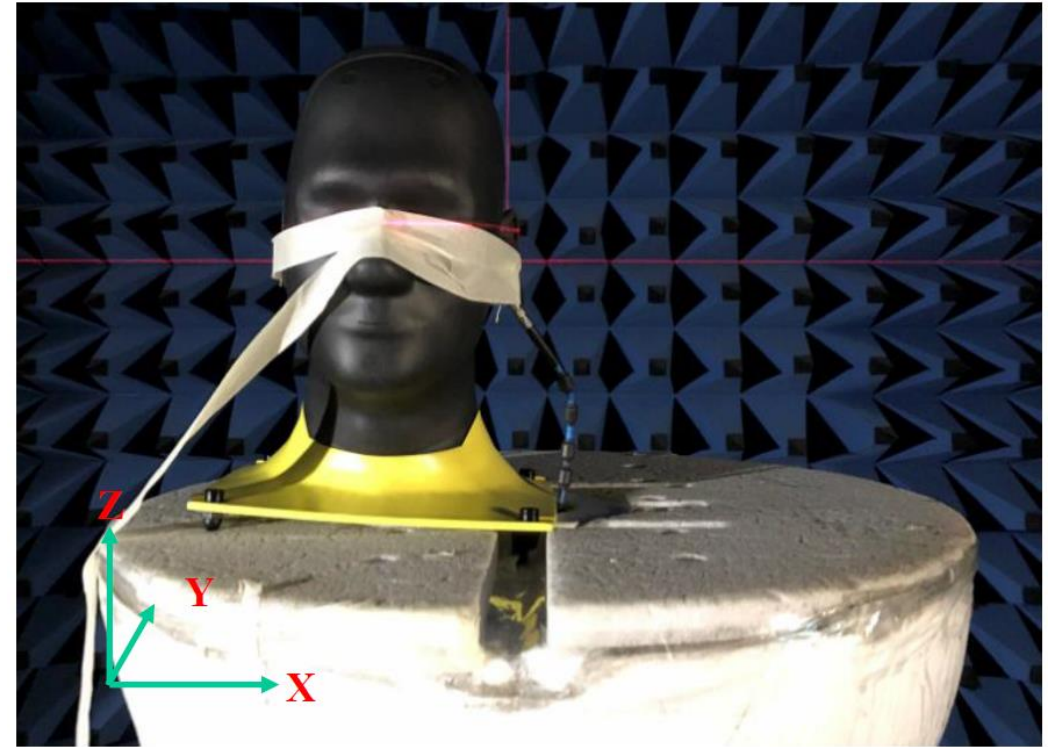
Address:

135 Shijie Keji East Road, Dongguan City, Guangdong Province, China

Measurement Setup

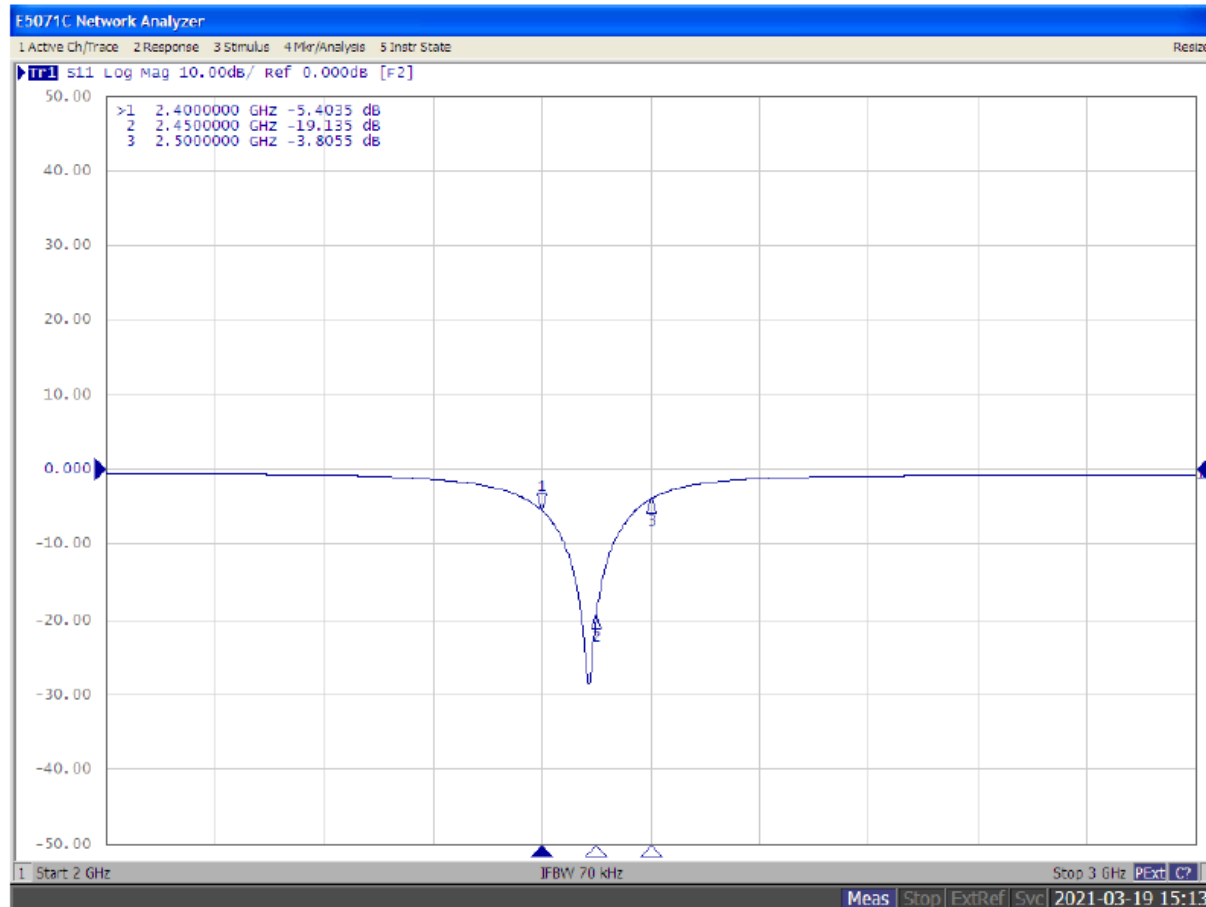


Free Space

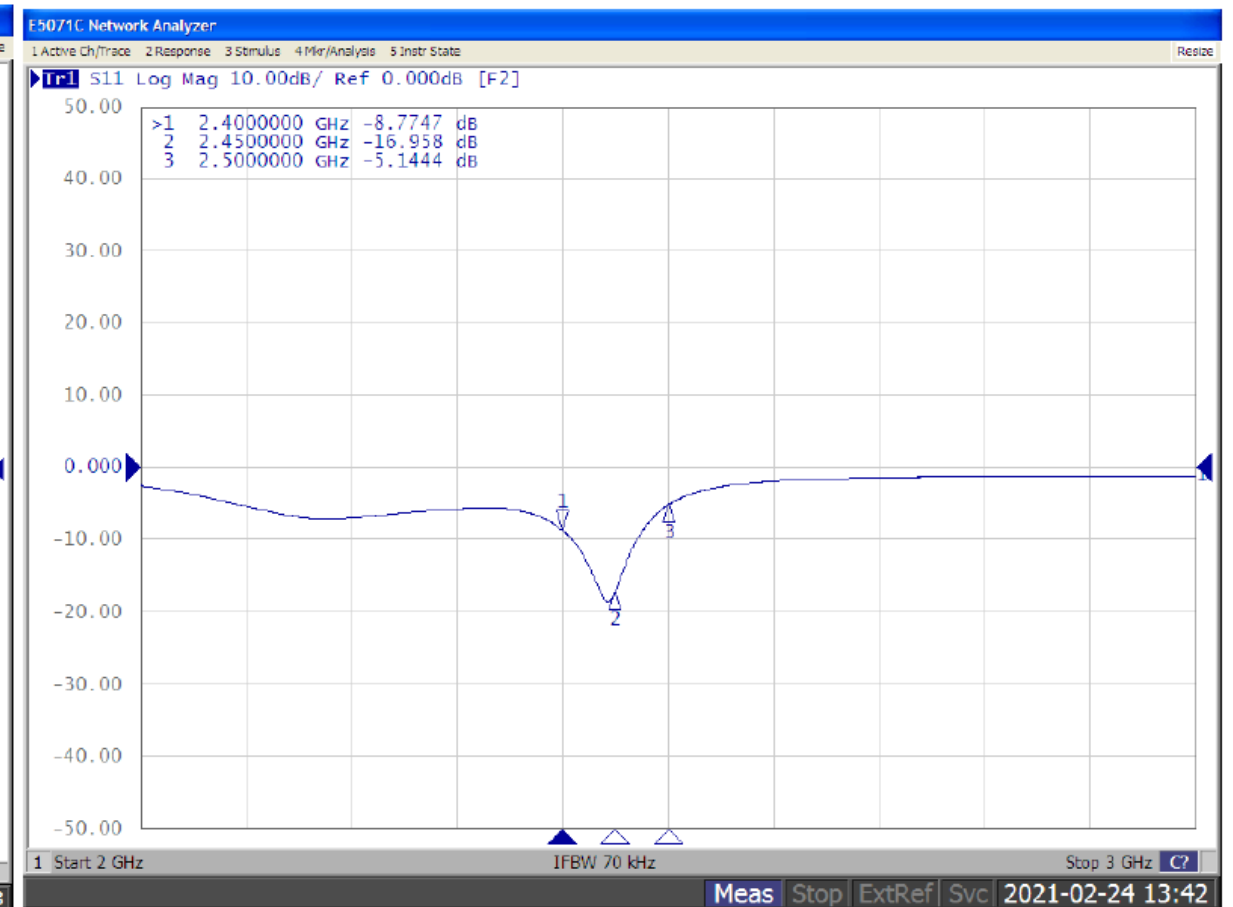


Phantom Head

Return Loss – Free Space

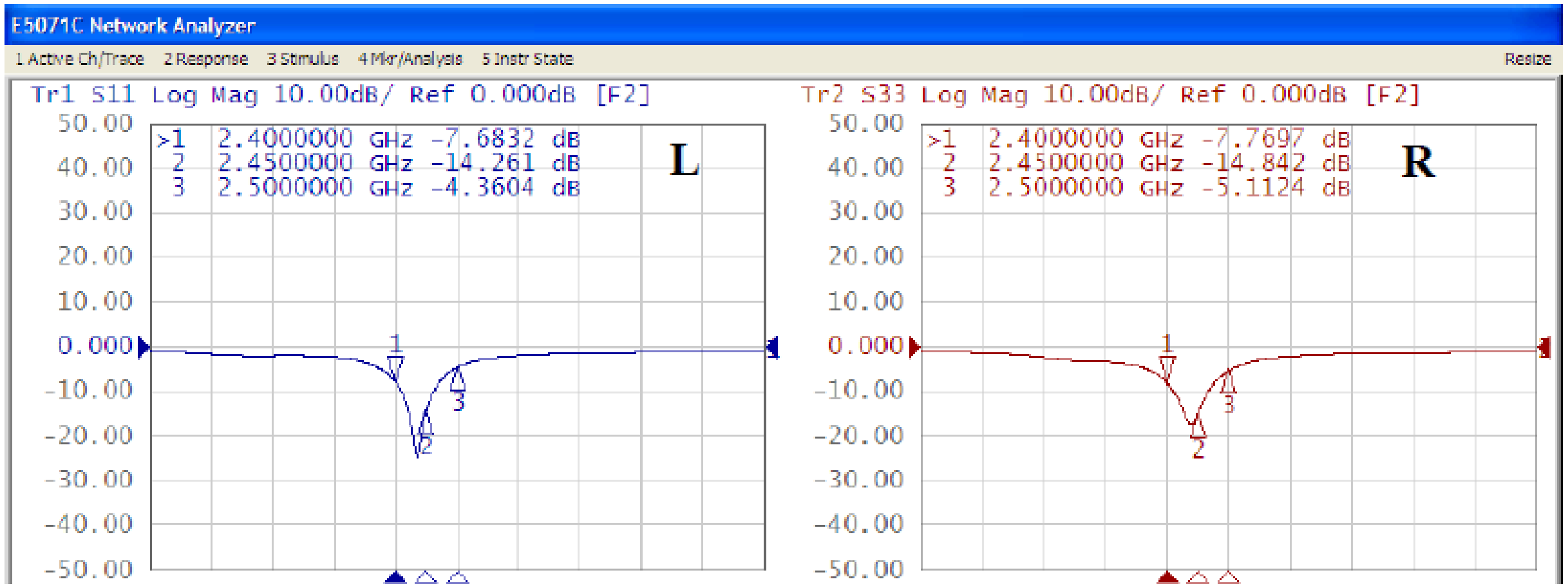


Left Side

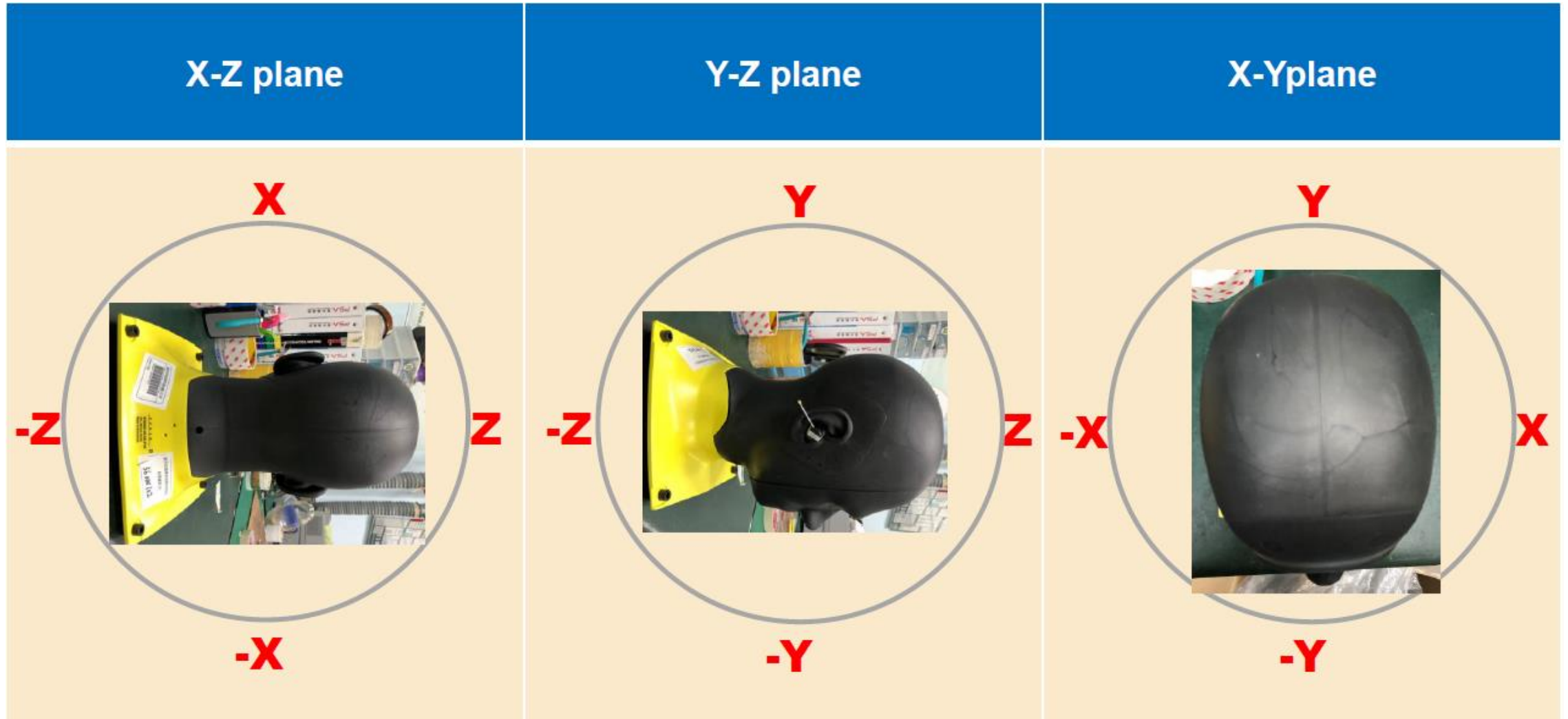


Right Side

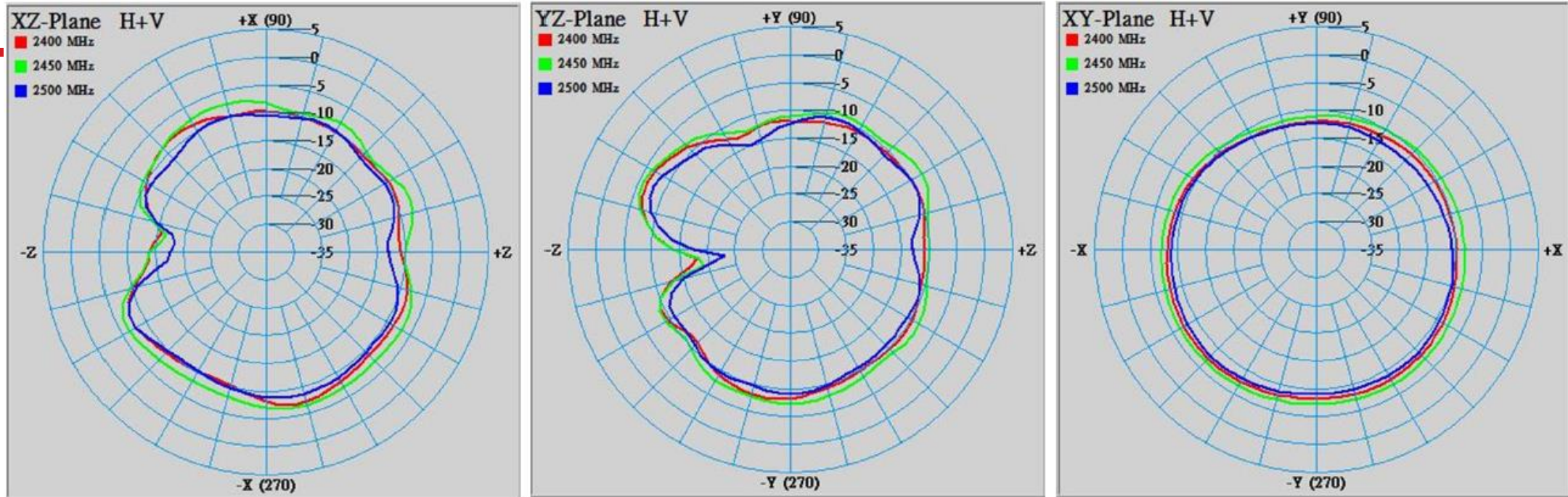
Return Loss – Phantom Head



3 Views of Antenna

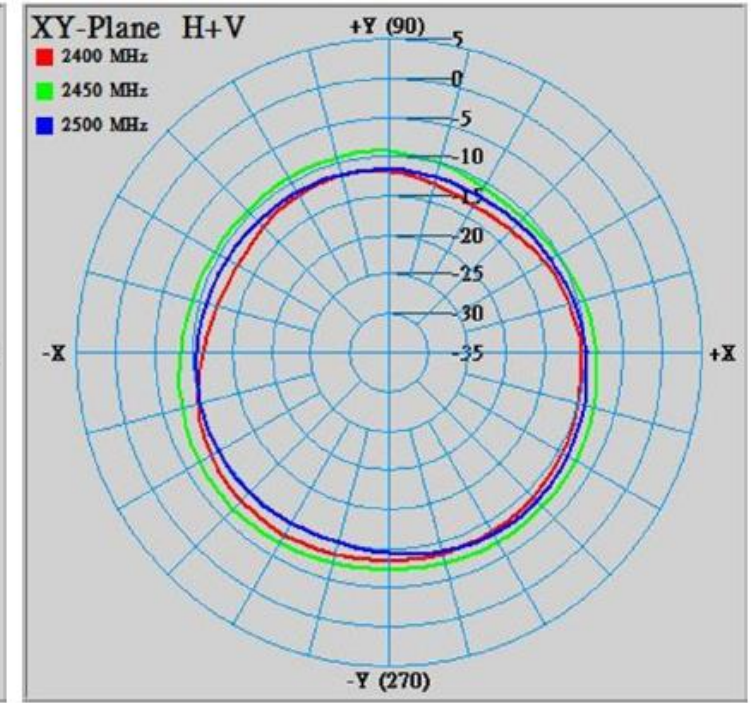
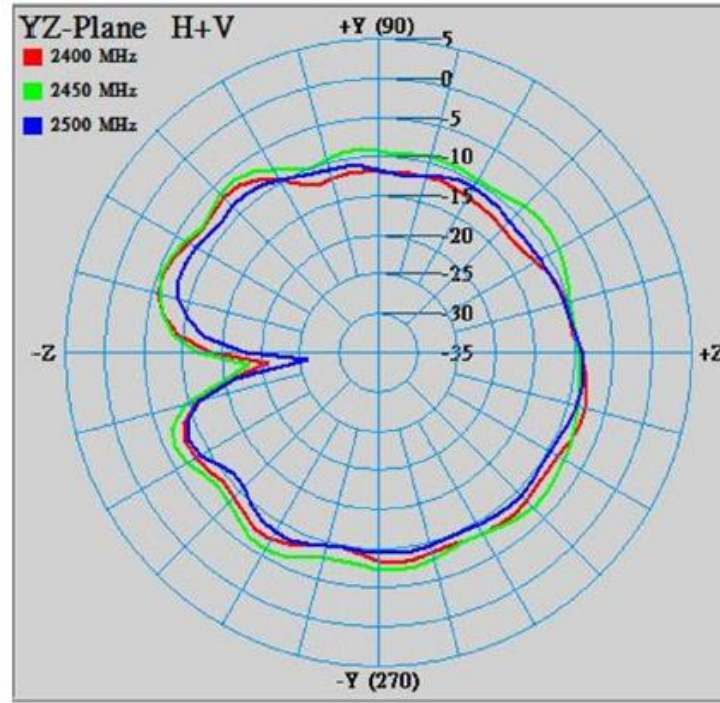
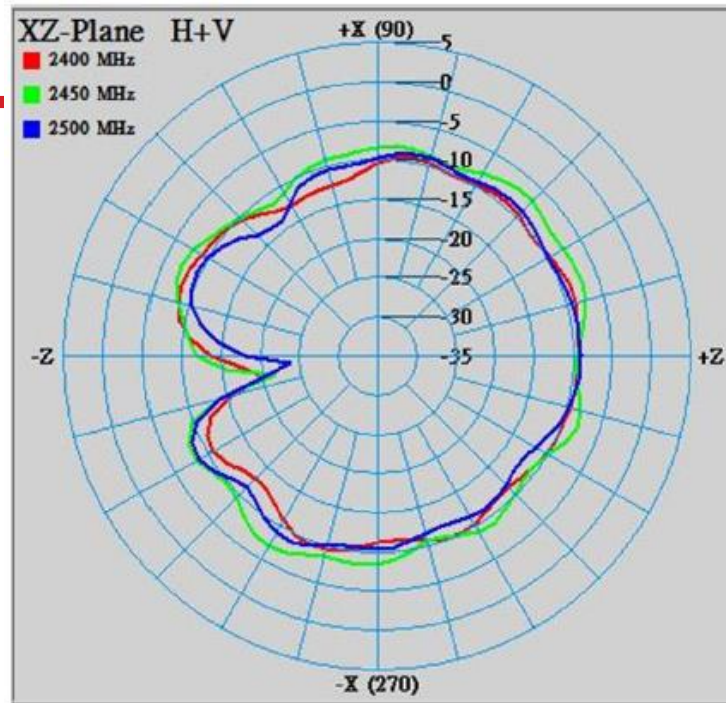


2D Radiation – Free space L



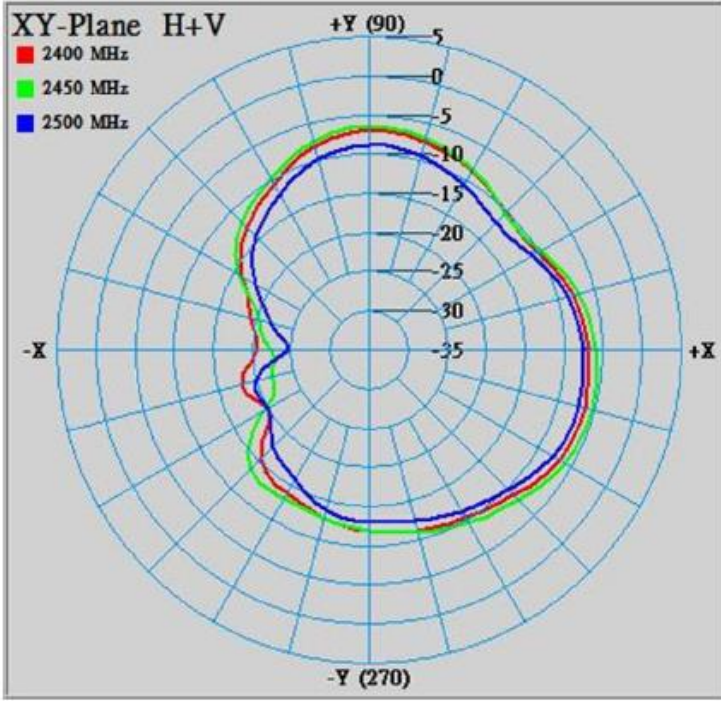
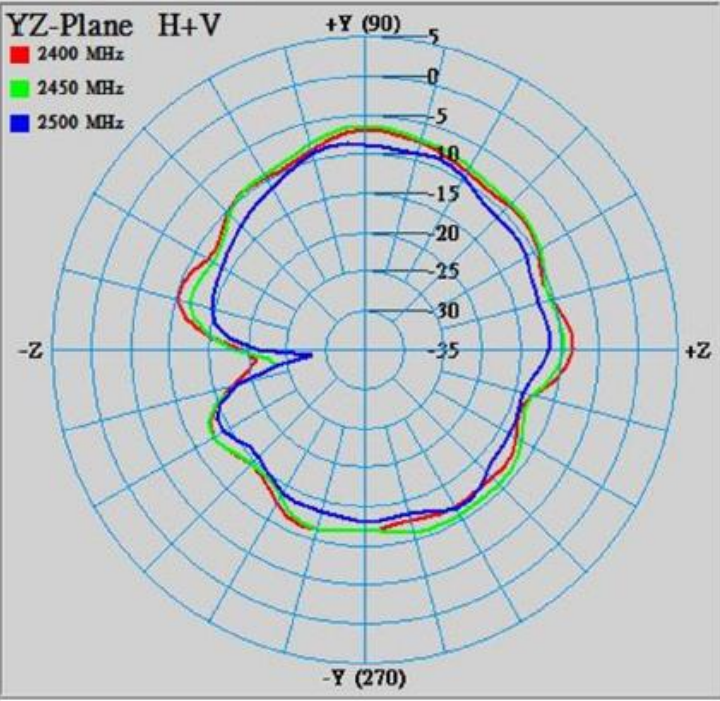
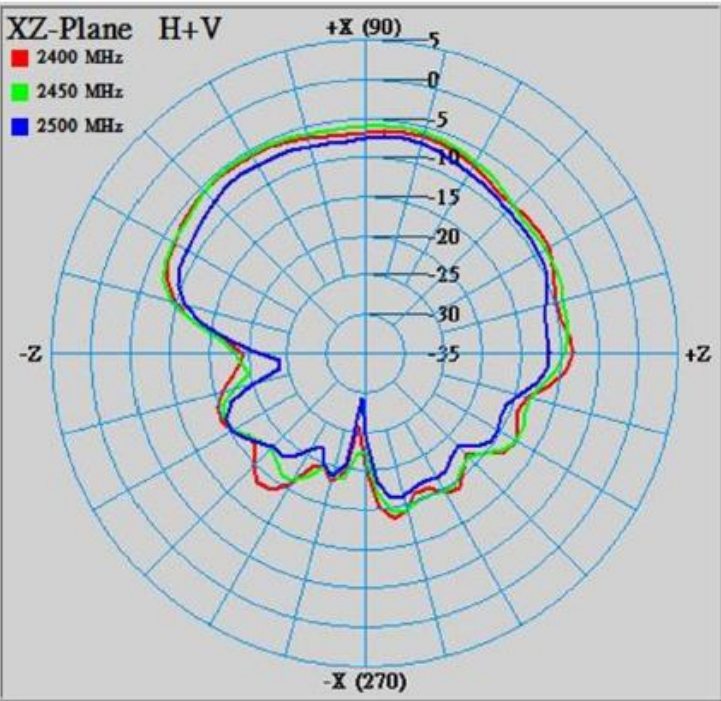
	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	-7.08	-9.45	-6.51	-9.91	-7.36	-9.14
2450	-6.41	-8.23	-5.75	-8.92	-6.60	-8.11
2500	-7.80	-10.29	-7.92	-10.81	-8.03	-9.84

2D Radiation – Free space R



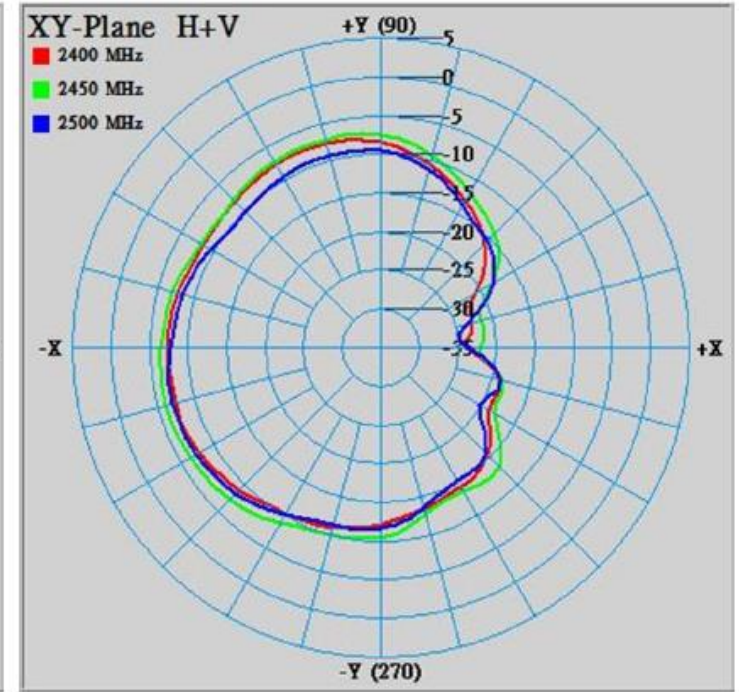
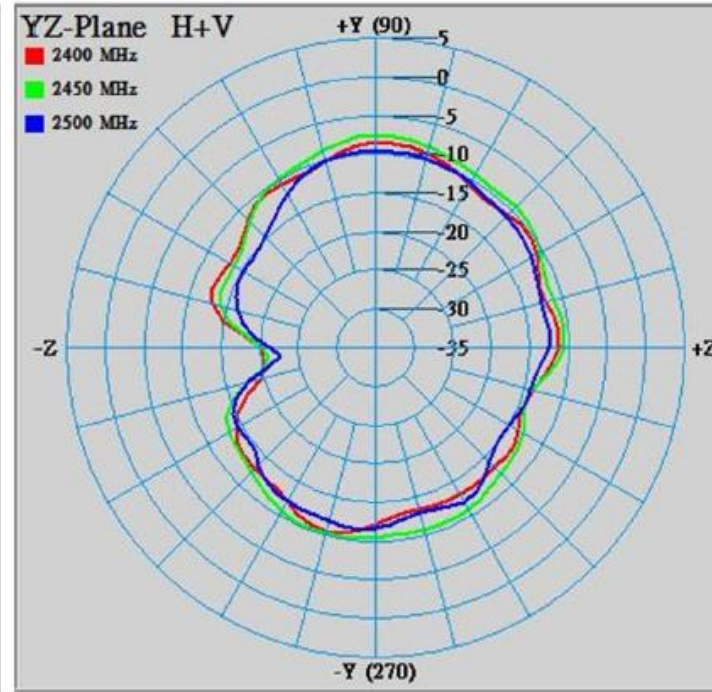
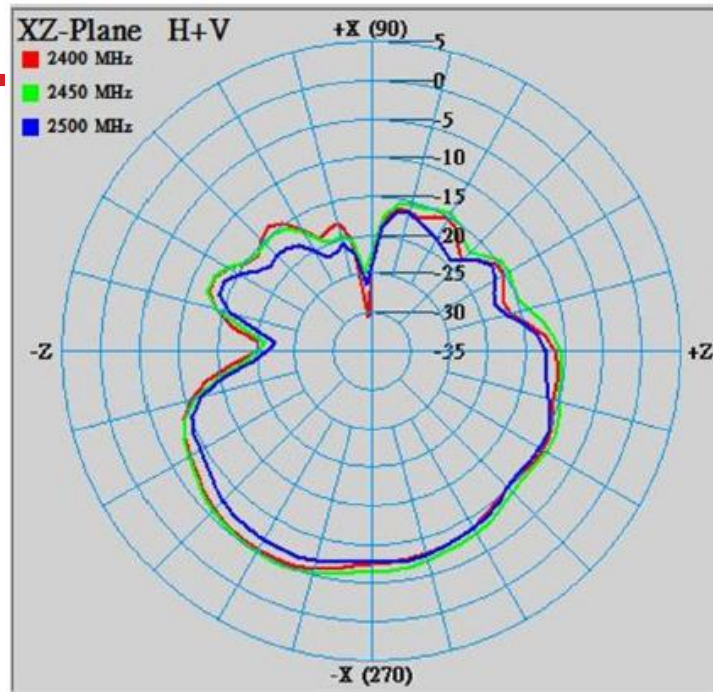
	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	-8.39	-10.42	-5.70	-9.15	-8.18	-10.22
2450	-7.07	-8.90	-5.59	-8.06	-6.86	-8.29
2500	-8.61	-10.44	-7.81	-9.91	-8.17	-10.15

2D Radiation – Phantom Head L



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	-5.70	-9.67	-6.93	-10.57	-6.38	-10.07
2450	-5.38	-9.47	-6.43	-10.37	-5.48	-9.45
2500	-7.07	-11.09	-8.59	-12.16	-7.20	-11.36

2D Radiation – Phantom Head R



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	-5.38	-10.40	-8.49	-11.89	-7.46	-10.48
2450	-4.84	-9.89	-7.55	-10.96	-6.12	-9.53
2500	-6.77	-11.35	-9.52	-12.57	-7.03	-10.99

Antenna Efficiency and Gain

	單體測試		上人頭測試	
	L	R	L	R
Maximum Efficiency (%)	15.61	15.32	10.93	10.32
Maximum Gain (dBi)	-4.77	-3.68	-5.23	-4.41

Antenna size/photo

