



B-Pillar

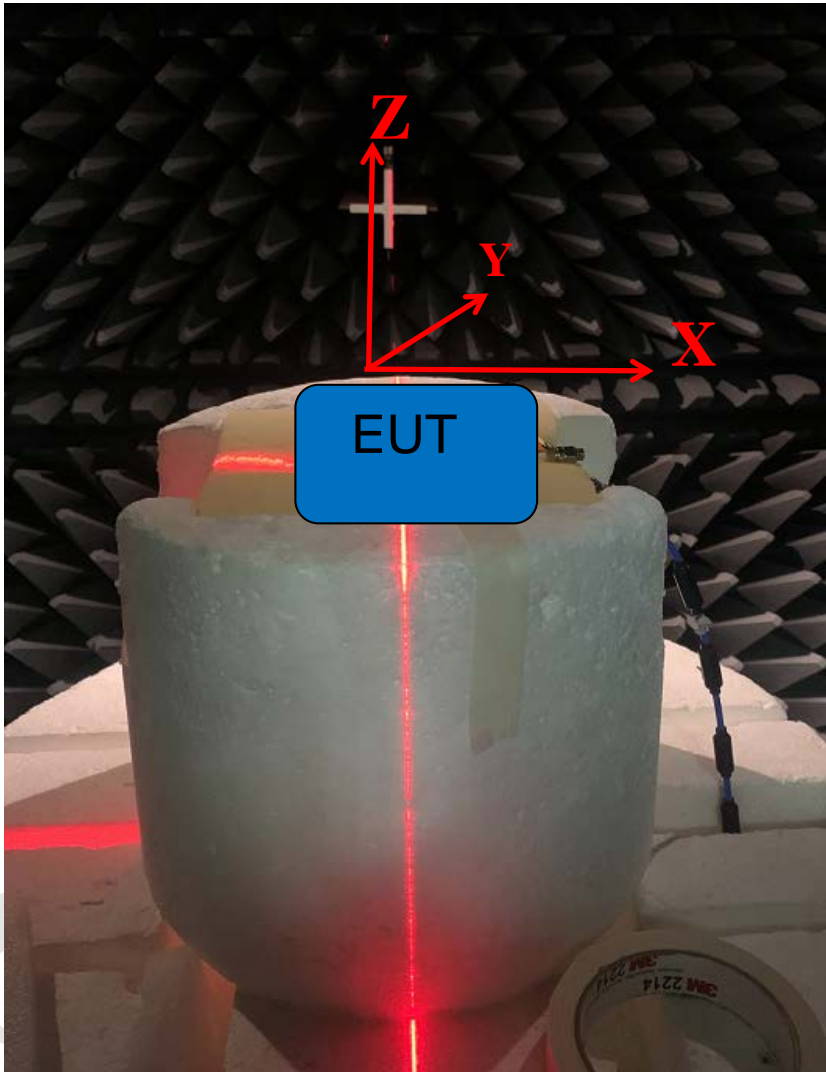
UWB/BLE Antenna Test Report

2023/7/17





Test setup

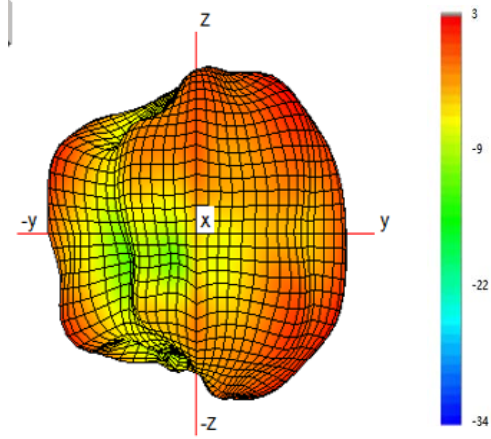




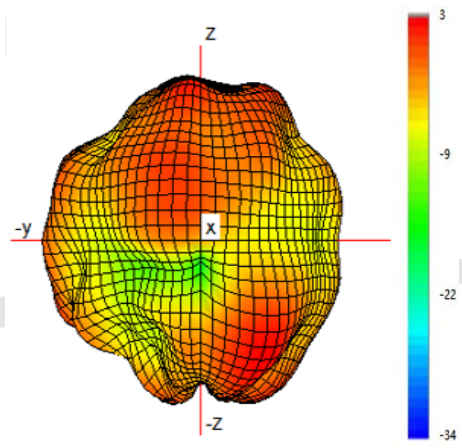
Efficiency & Gain- UWB antenna

Freq(MHz)	Gain	Freq(MHz)	Gain
6000	2.44	7250	2.07
6050	2.67	7300	2.05
6100	2.55	7350	2.11
6150	2.60	7400	2.22
6200	2.61	7450	2.39
6250	2.50	7500	2.72
6300	2.55	7550	2.40
6350	2.64	7600	2.46
6400	2.86	7650	2.57
6450	2.82	7700	2.77
6500	2.64	7750	3.05
6550	2.85	7800	3.06
6600	2.76	7850	2.93
6650	2.65	7900	3.09
6700	2.37	7950	2.99
6750	2.27	8000	2.64
6800	2.21	8050	1.95
6850	2.02	8100	1.78
6900	1.58	8150	1.63
6950	1.19	8200	1.39
7000	1.15	8250	0.85
7050	1.19	8300	0.33
7100	1.42	8350	0.20
7150	1.52	8400	-0.09
7200	1.72	8450	-0.44
		8500	-0.62

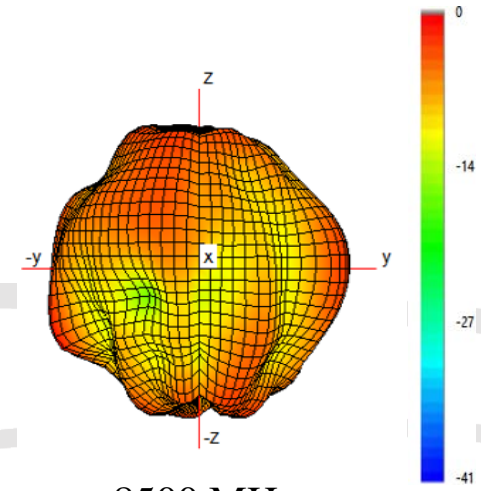
UWB Antenna _3D Radiation Pattern



6500 MHz



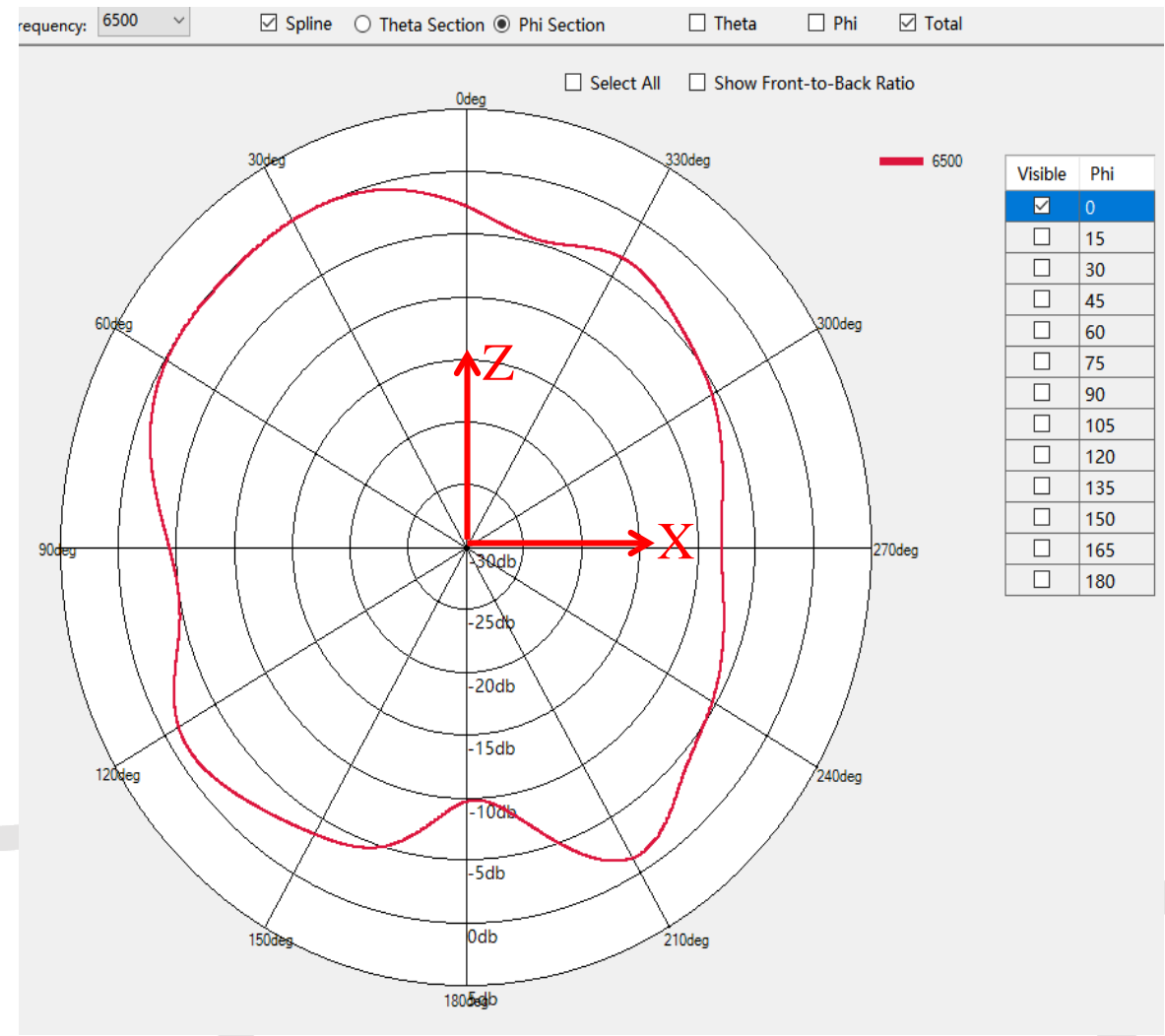
7500 MHz



8500 MHz



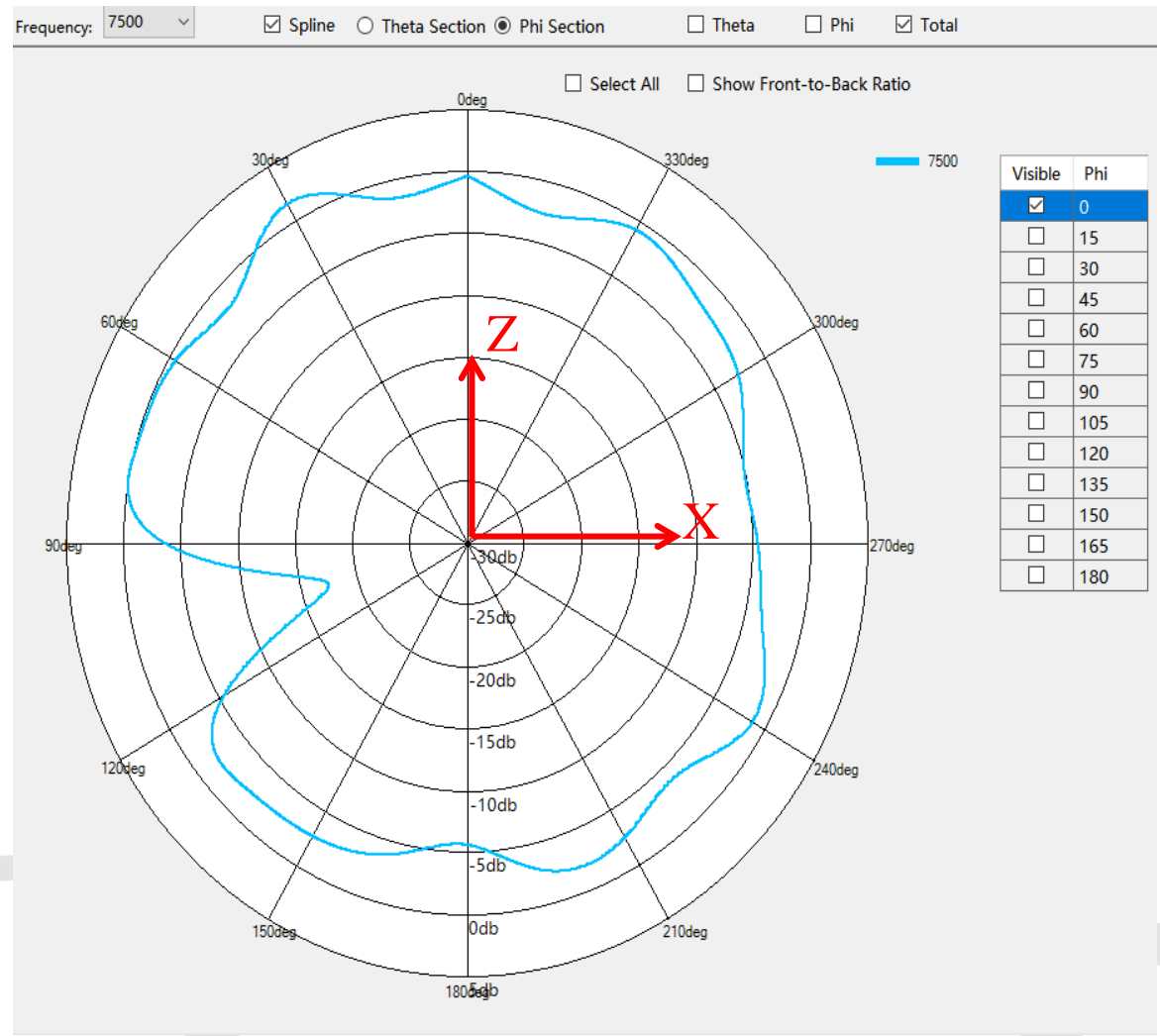
UWB Antenna _2D Radiation Pattern



6500MHz XZ plot



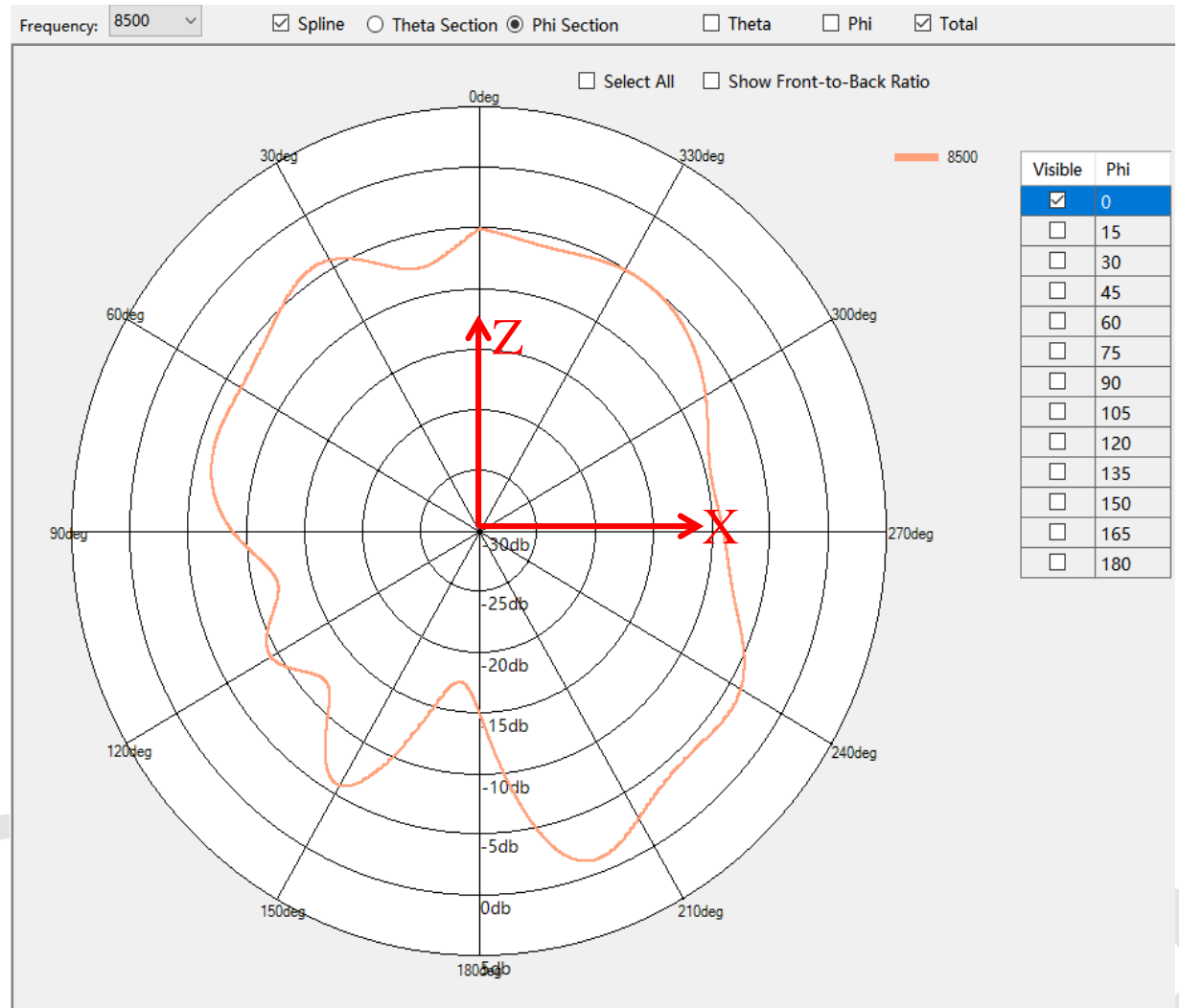
UWB Antenna _2D Radiation Pattern



7500MHz XZ plot



UWB Antenna _2D Radiation Pattern

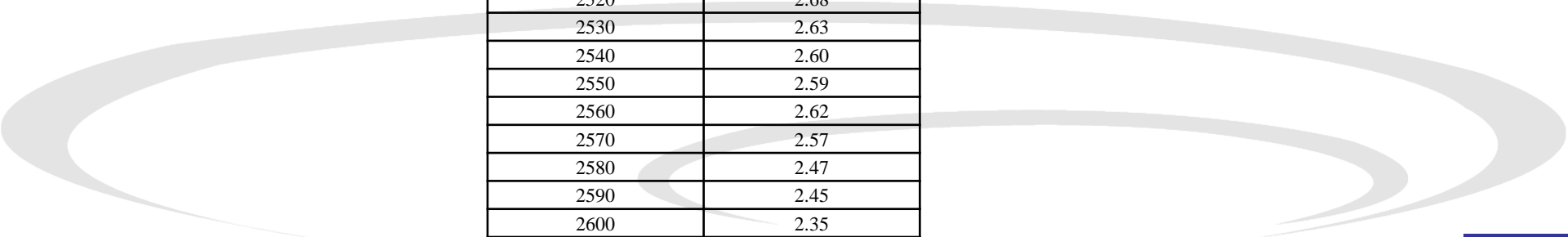


8500MHz XZ plot

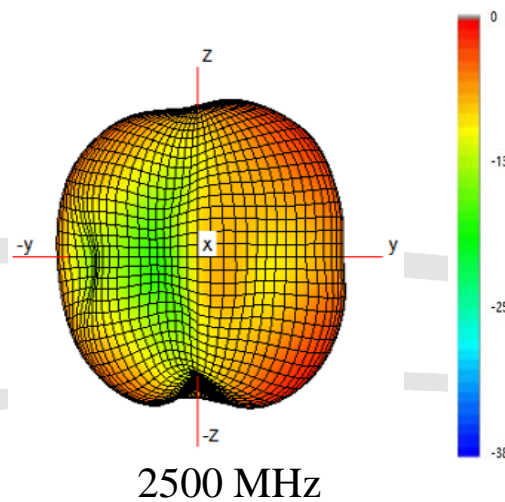
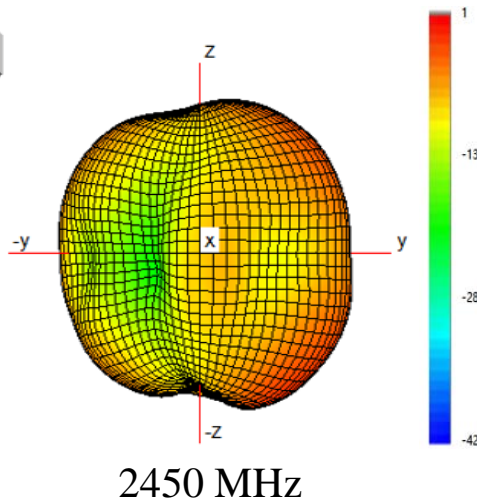
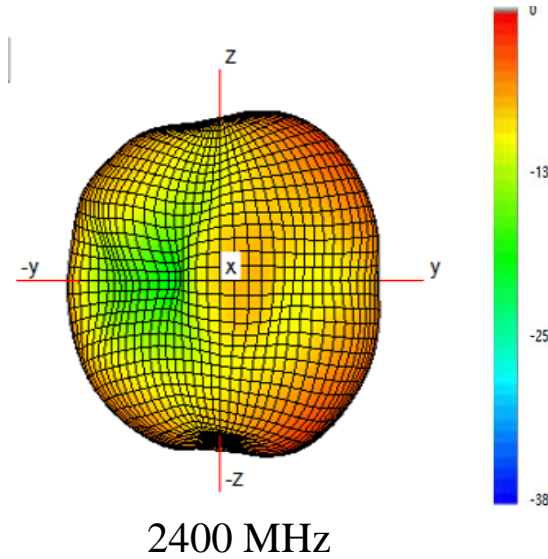


Efficiency & Gain- BLE antenna

Freq(MHz)	Gain
2300	1.84
2310	1.83
2320	1.91
2330	1.99
2340	1.99
2350	1.97
2360	2.09
2370	2.17
2380	2.33
2390	2.37
2400	2.35
2410	2.30
2420	2.25
2430	2.28
2440	2.29
2450	2.36
2460	2.40
2470	2.41
2480	2.47
2490	2.55
2500	2.62
2510	2.64
2520	2.68
2530	2.63
2540	2.60
2550	2.59
2560	2.62
2570	2.57
2580	2.47
2590	2.45
2600	2.35

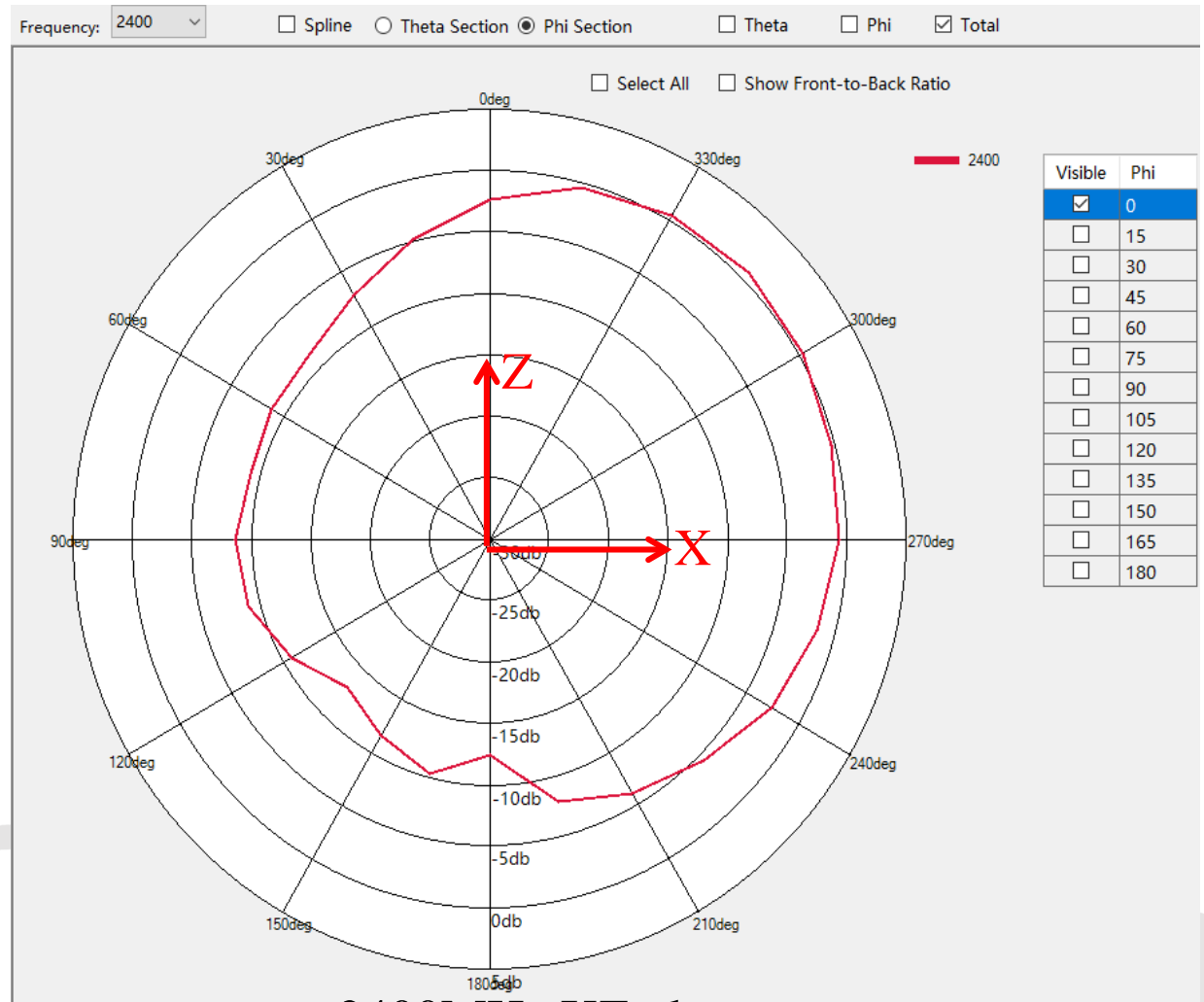


BLE Antenna _3D Radiation Pattern





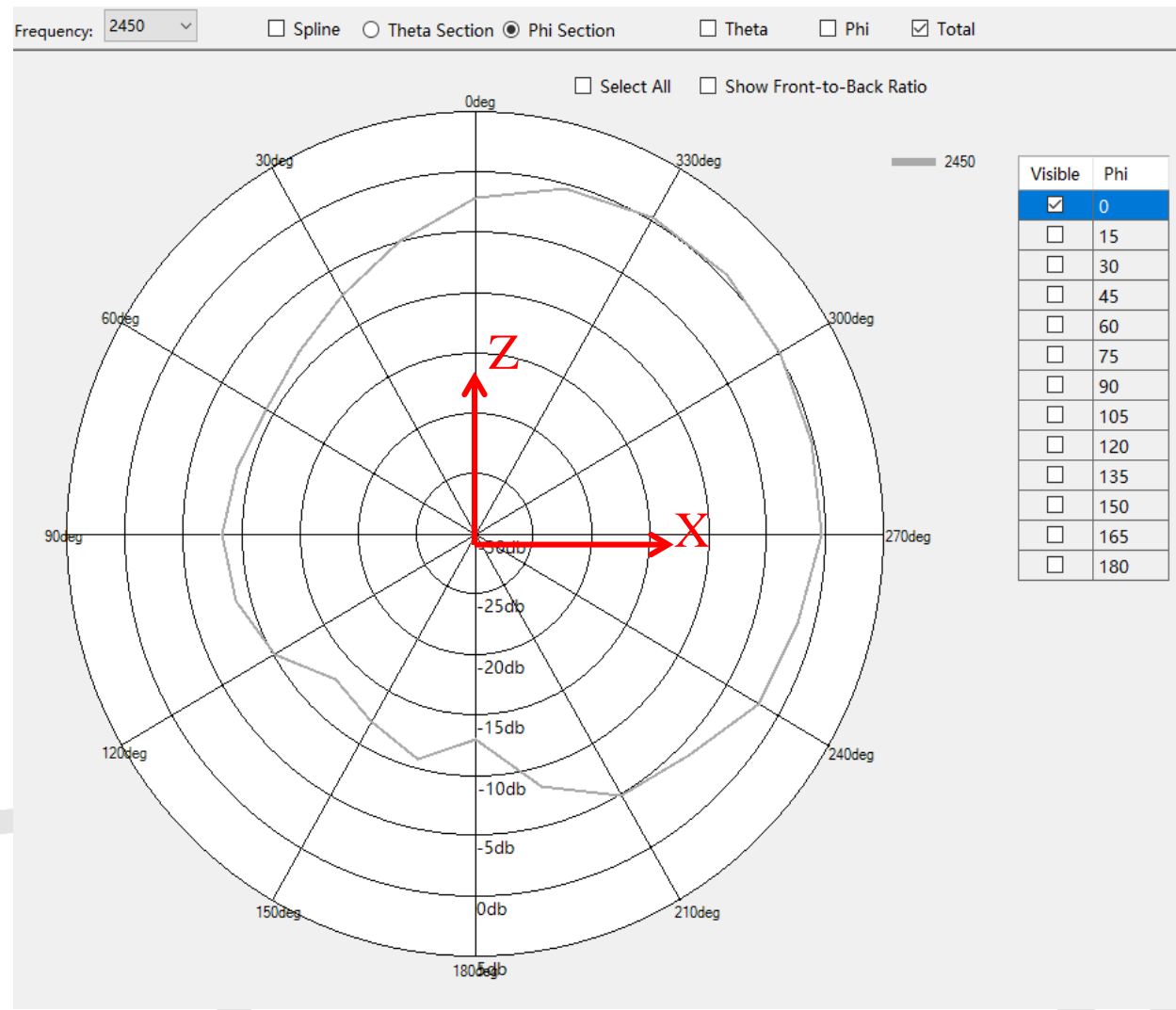
BLE Antenna _2D Radiation Pattern



2400MHz XZ plot



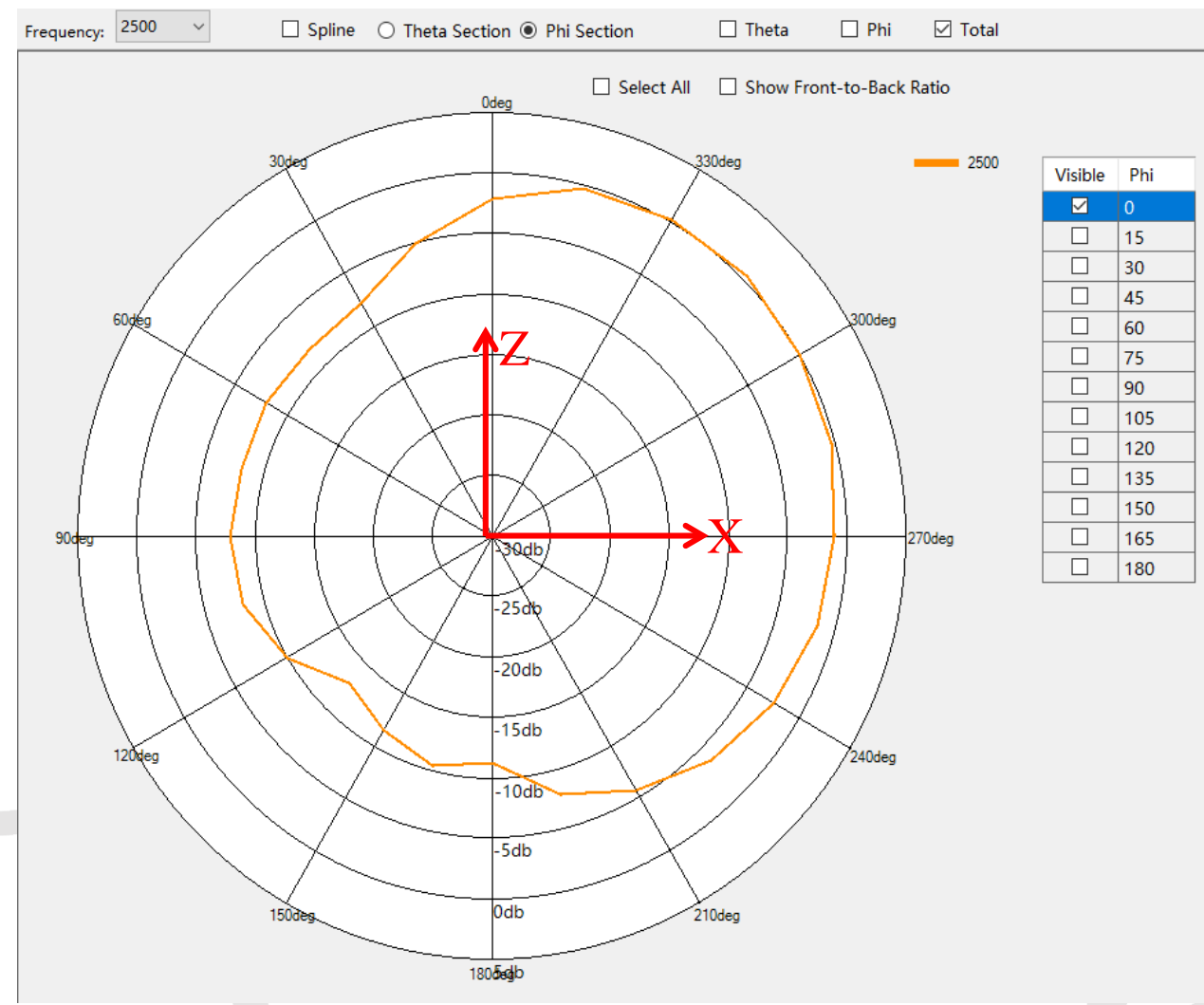
BLE Antenna _2D Radiation Pattern



2450MHz XZ plot



BLE Antenna _2D Radiation Pattern



2500MHz XZ plot



Thanks !

