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Client: Samsung EMC
Model: SWL-2200U
FCC ID: E2XSWL-2200U
FCC/IC: 15.247/RSS-210
Report #: 2002055

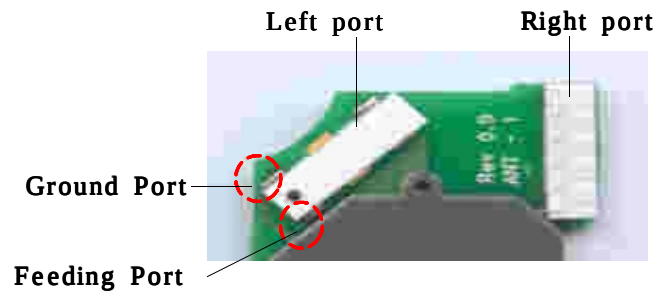
APPENDIX B: ANTENNA SPECIFICATIONS

Please see the following pages.

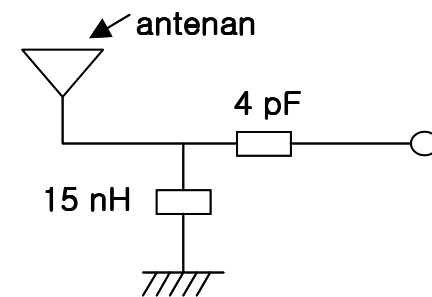
Antenna : SEMCO WLAN Chip Antenna (12.5*3*2.5 mm ceramic)

Test JIG : 2200U

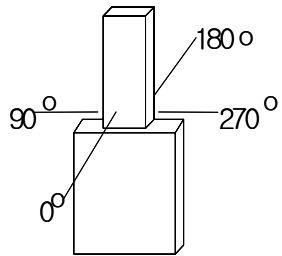
Antenna Position :



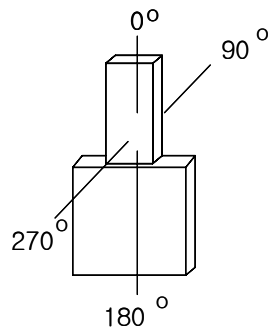
Matching Circuit : Matching circuit needed



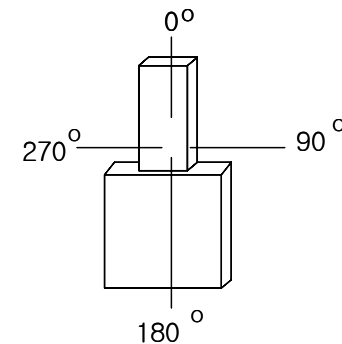
Antenna Radiation Pattern Direction



Azimuth Plane (XY plane)



Elevation 1 Plane (YZ plane)



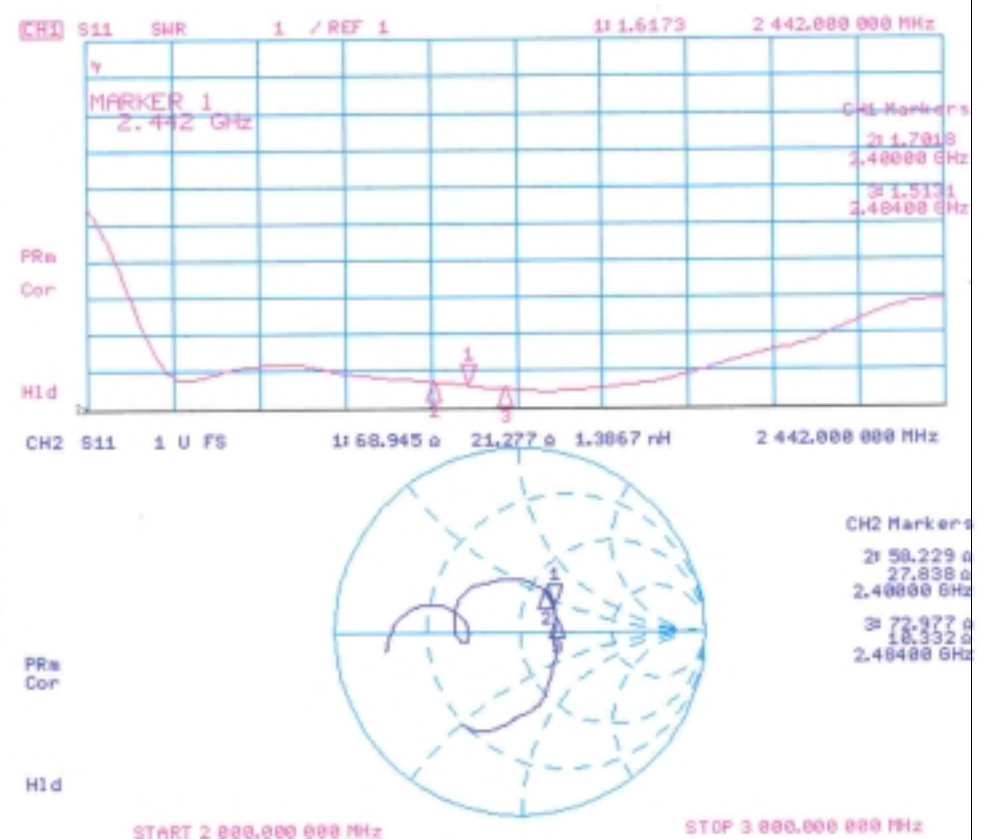
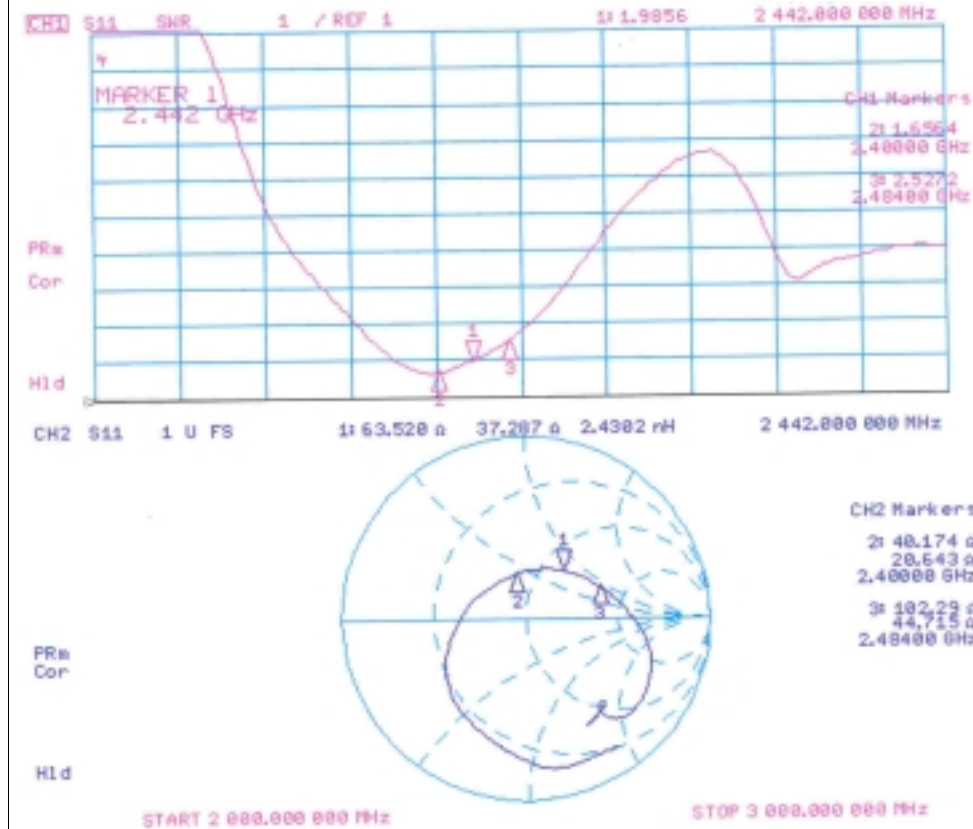
Elevation 2 Plane (ZX plane)

Antenna : SEMCO WLAN Chip Antenna

VSWR Result

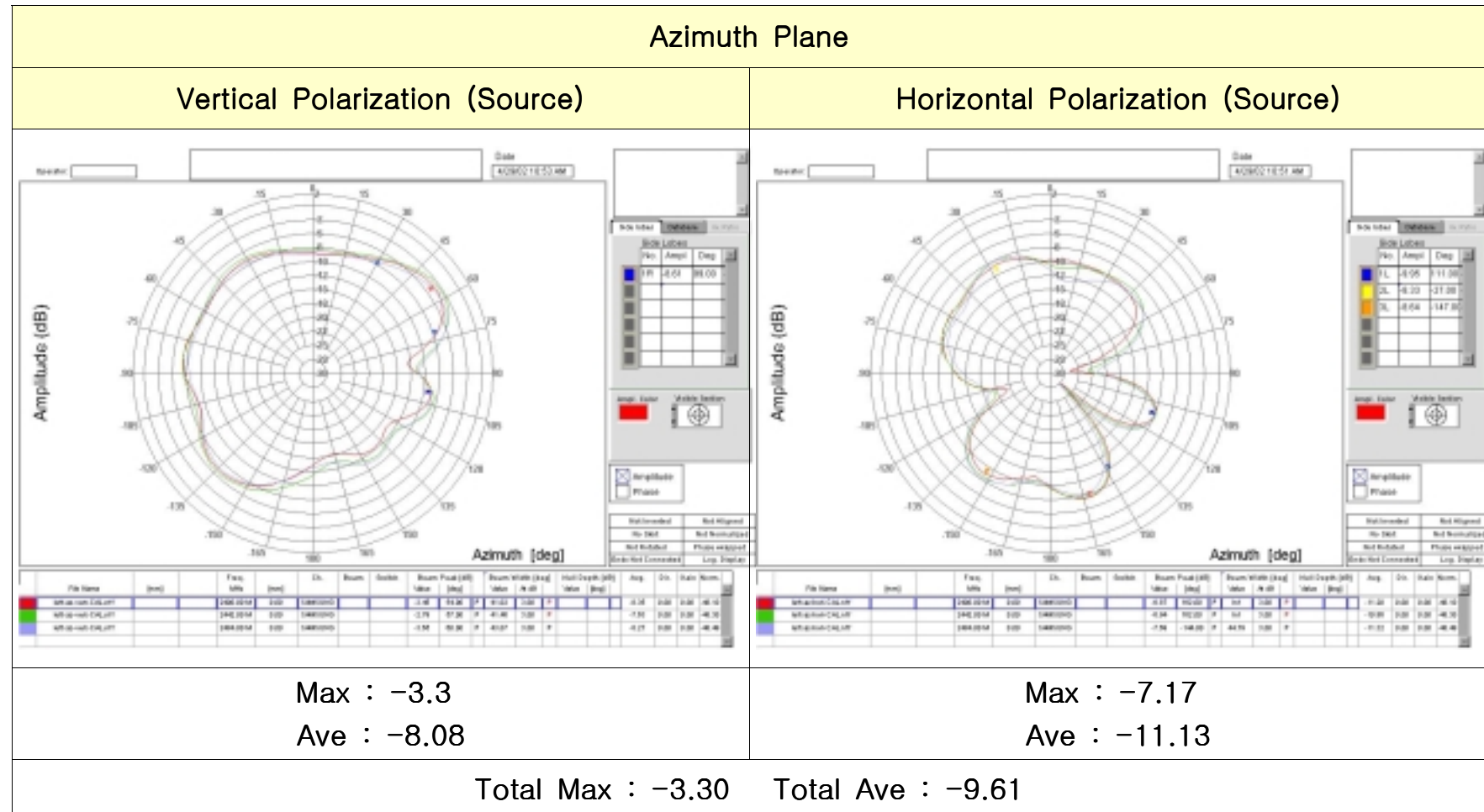
Left port

Right port



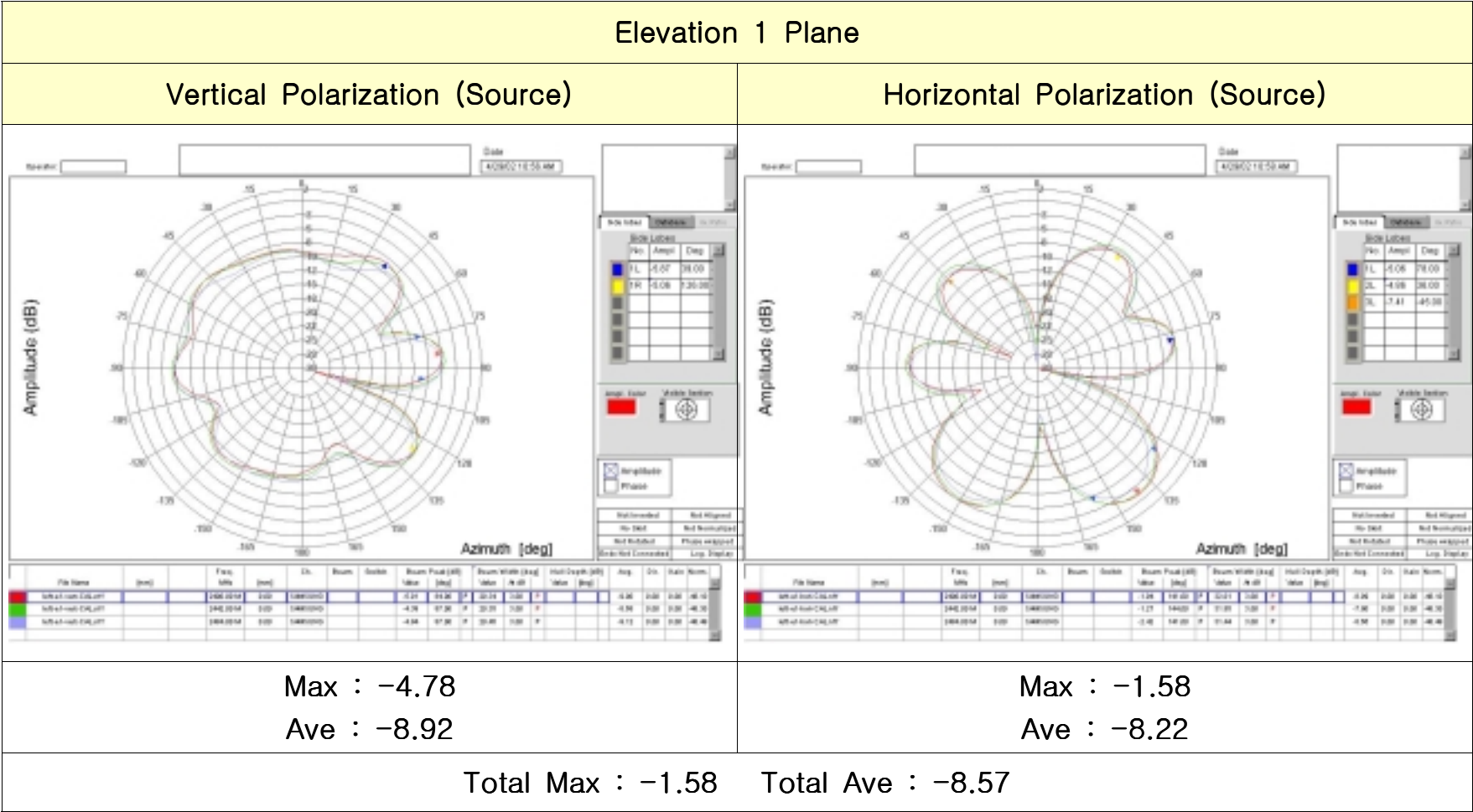
Antenna : SEMCO WLAN Chip Antenna

Radiation Pattern Result (Left port)



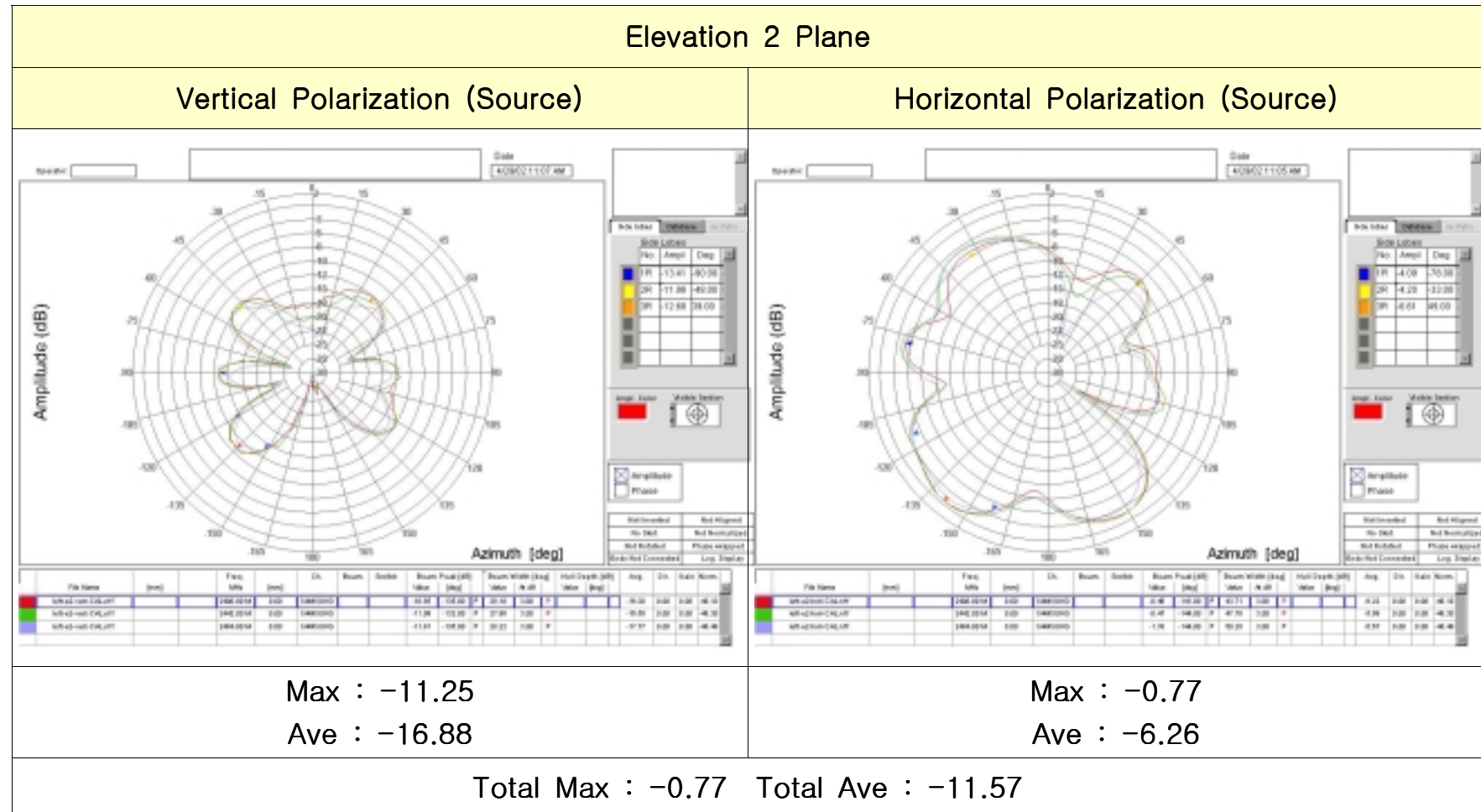
Antenna : SEMCO WLAN Chip Antenna

Radiation Pattern Result (Left port)



Antenna : SEMCO WLAN Chip Antenna

Radiation Pattern Result (Left port)

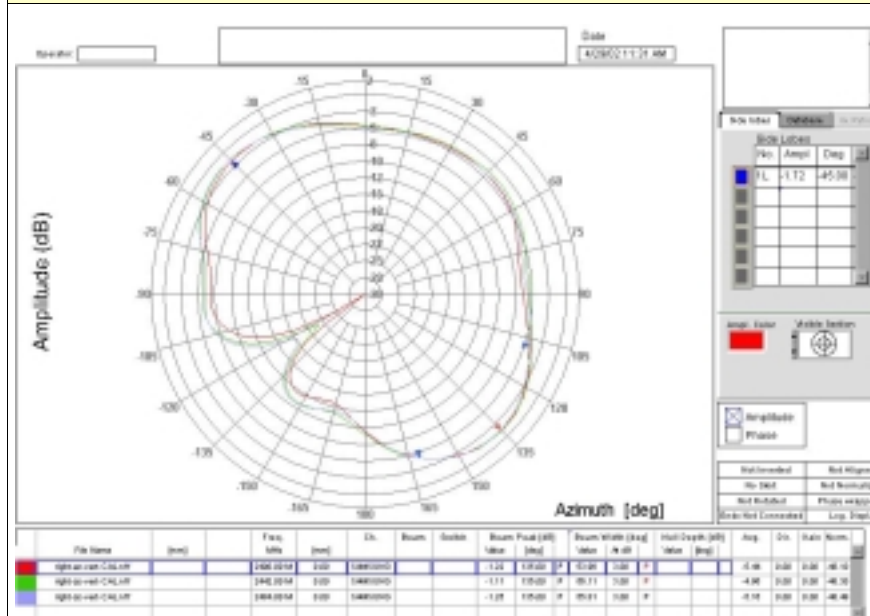


Antenna : SEMCO WLAN Chip Antenna

Radiation Pattern Result (Right port)

Azimuth Plane

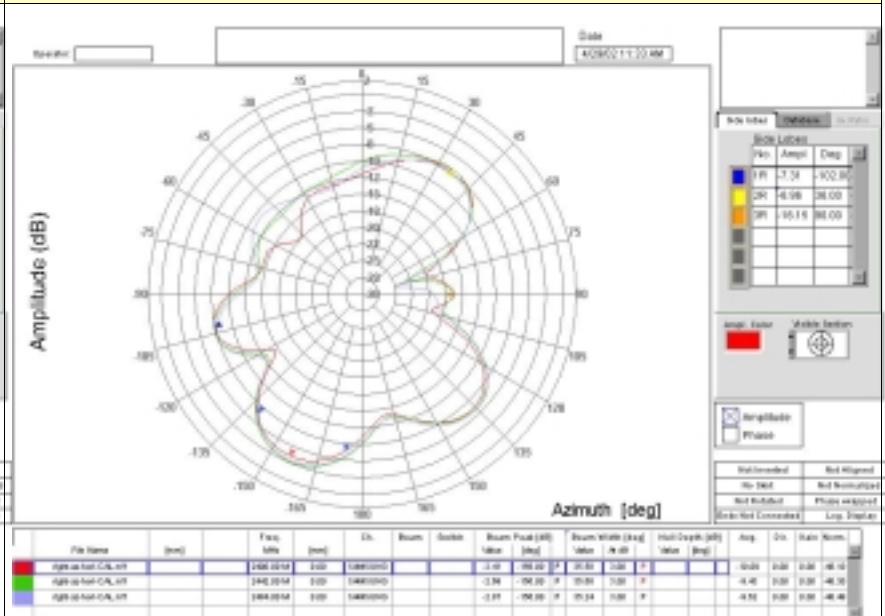
Vertical Polarization (Source)



Max : -1.19

Ave : -5.12

Horizontal Polarization (Source)



Max : -2.99

Ave : -9.71

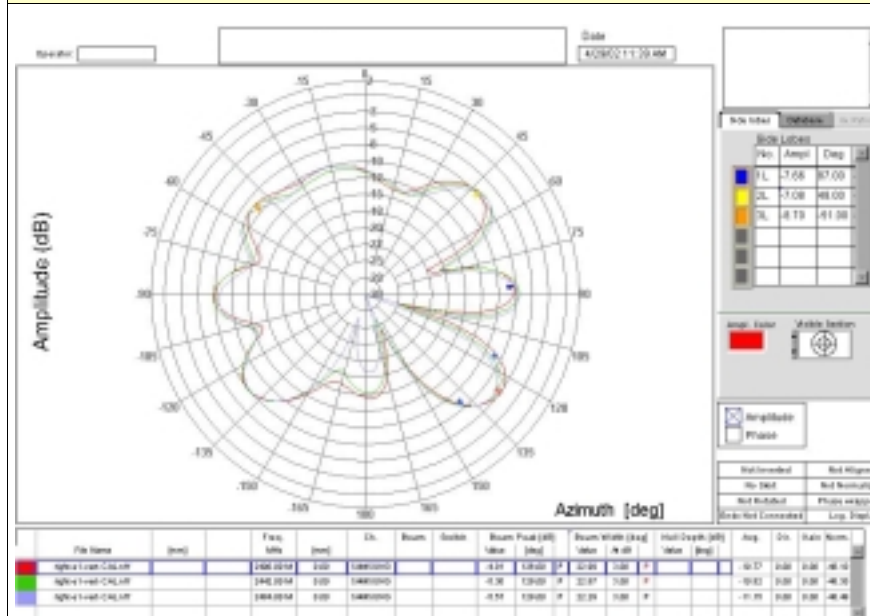
Total Max : -1.19 Total Ave : -7.45

Antenna : SEMCO WLAN Chip Antenna

Radiation Pattern Result (Right port)

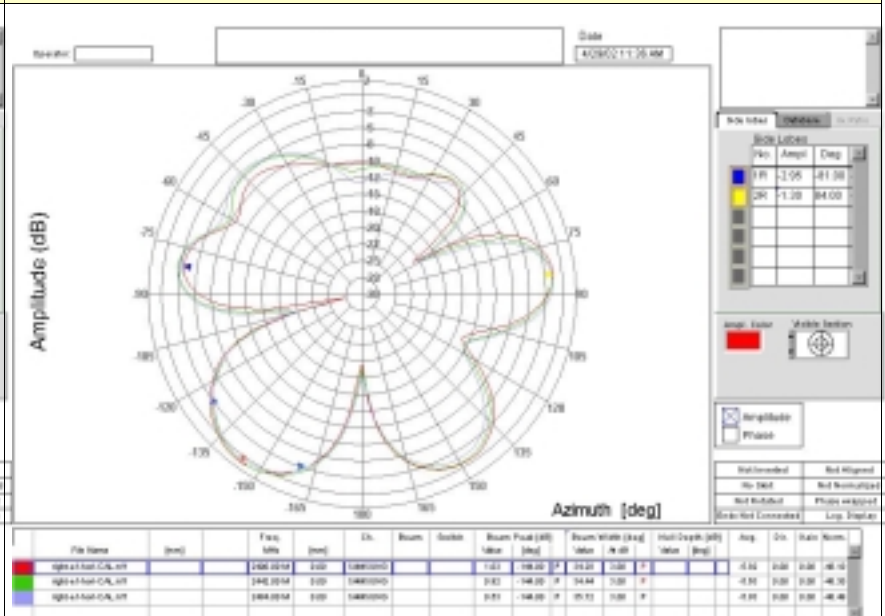
Elevation 1 Plane

Vertical Polarization (Source)



Max : -5.26
Ave : -10.91

Horizontal Polarization (Source)

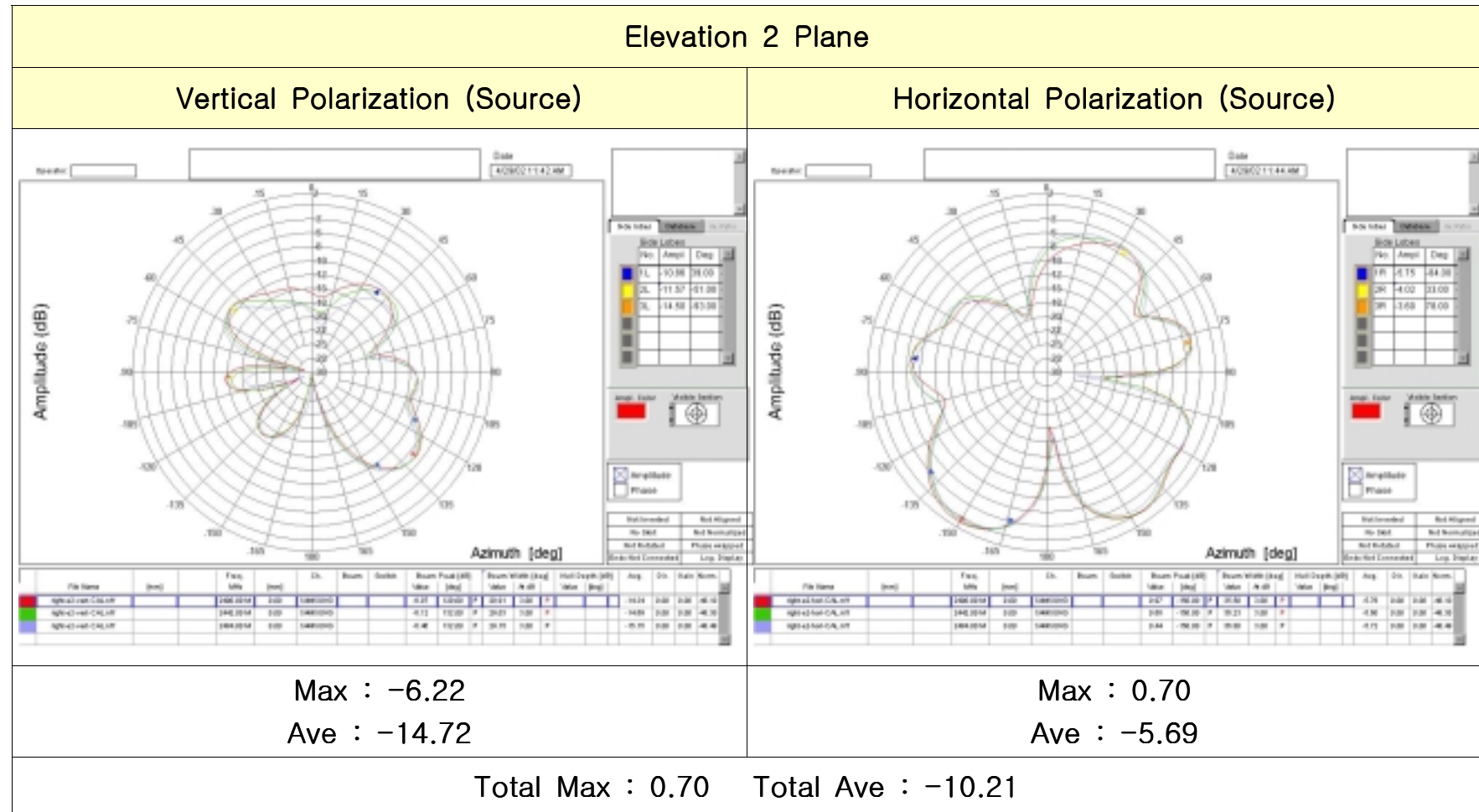


Max : 0.83
Ave : -5.76

Total Max : 0.83 Total Ave : -8.34

Antenna : SEMCO WLAN Chip Antenna

Radiation Pattern Result (Right port)



Antenna : SEMCO WLAN Chip Antenna

Radiation Pattern Result

■ Source : Vertical Polarization [dBi]

Port	Azimuth (all)		Elevation 1 (all)		Elevation 2 (all)	
	Max	Ave	Max	Ave	Max	Ave
Left	-3.30	-8.08	-4.78	-8.92	-11.25	-16.88
Right	-1.19	-5.19	-5.26	-10.91	-6.22	-14.72

■ Source : Horizontal Polarization [dBi]

Port	Azimuth (all)		Elevation 1 (all)		Elevation 2 (all)	
	Max	Ave	Max	Ave	Max	Ave
Left	-7.17	-11.13	-1.58	-8.22	-0.77	-6.26
Right	-2.99	-9.71	0.83	-5.76	0.7	-5.69

■ Total Average [dBi]

Left port	-5.91
Right port	-4.52