

NEC 2 - Inverted L 2450MHz antenna simulation

Geometry description:

CM

CM Inverted L antenna 2450MHz

CM

CM Ground plane: wire mesh 100x100mm

CM

CE

GW	1	20	-0.05	0	0	0.05	0	0	0.4e-3
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GM	2	20	0	0	0	0	0.005	0	1
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GW	100	20	-0.05	0	0	-0.05	0.1	0	0.5e-3
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GM	2	20	0	0	0	0.005	0	0	100
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GW	200	2	0.05	0.09	0	0.05	0.09	0.009	0.6e-3
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GW	201	9	0.05	0.1	0.011	-0.05	0.1	0.011	0.6e-3
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GW	203	2	0.05	0.09	0.009	0.05	0.1	0.011	0.6e-3
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GE	0
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LD	5	0	0	0	58000000
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LD	7	200	0	0	4.5	0.8e-3
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LD	7	201	0	0	4.5	0.8e-3
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LD	7	203	0	0	4.5	0.8e-3
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GN	-1
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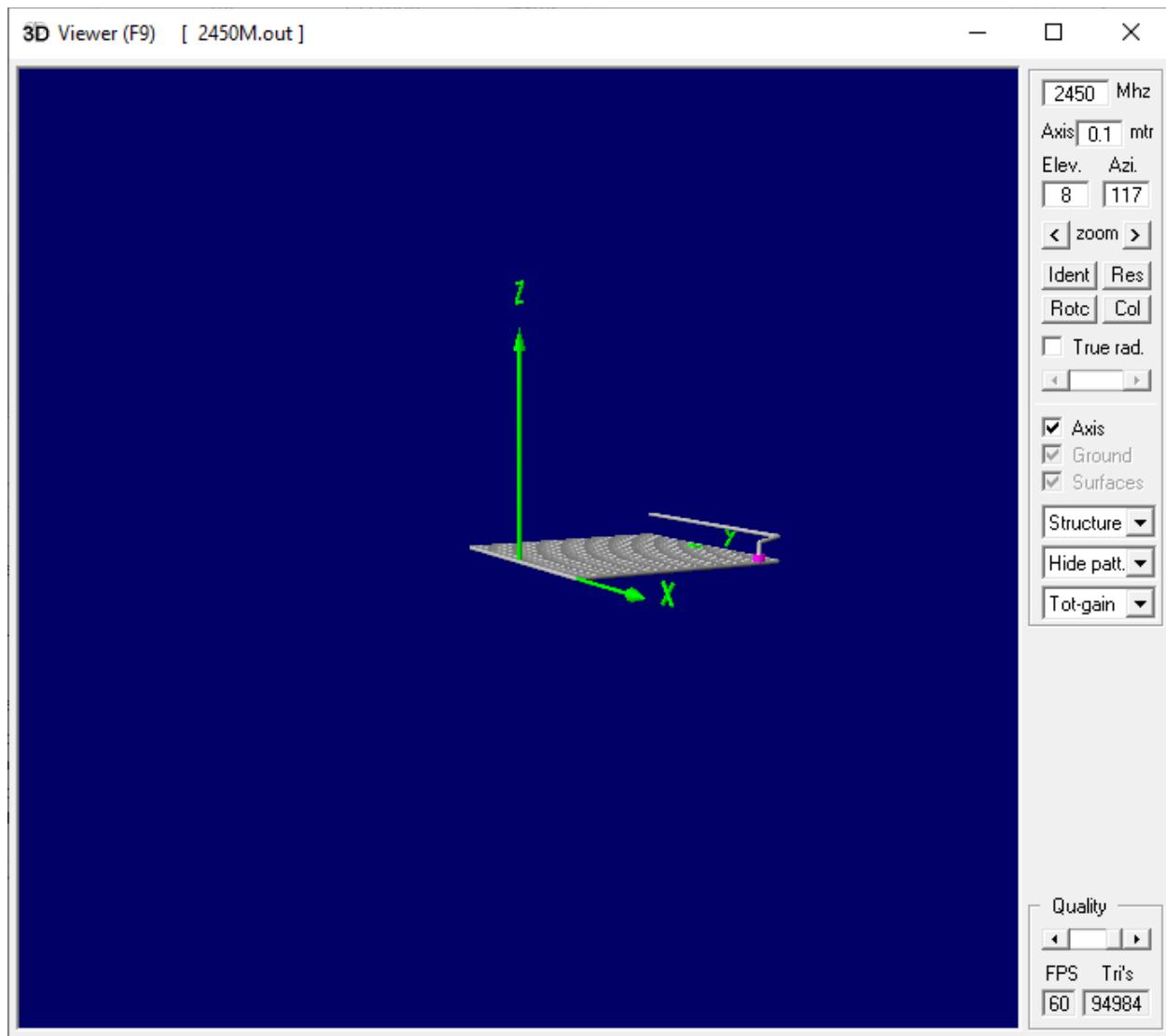
EK

EX	0	200	1	0	1	0	0
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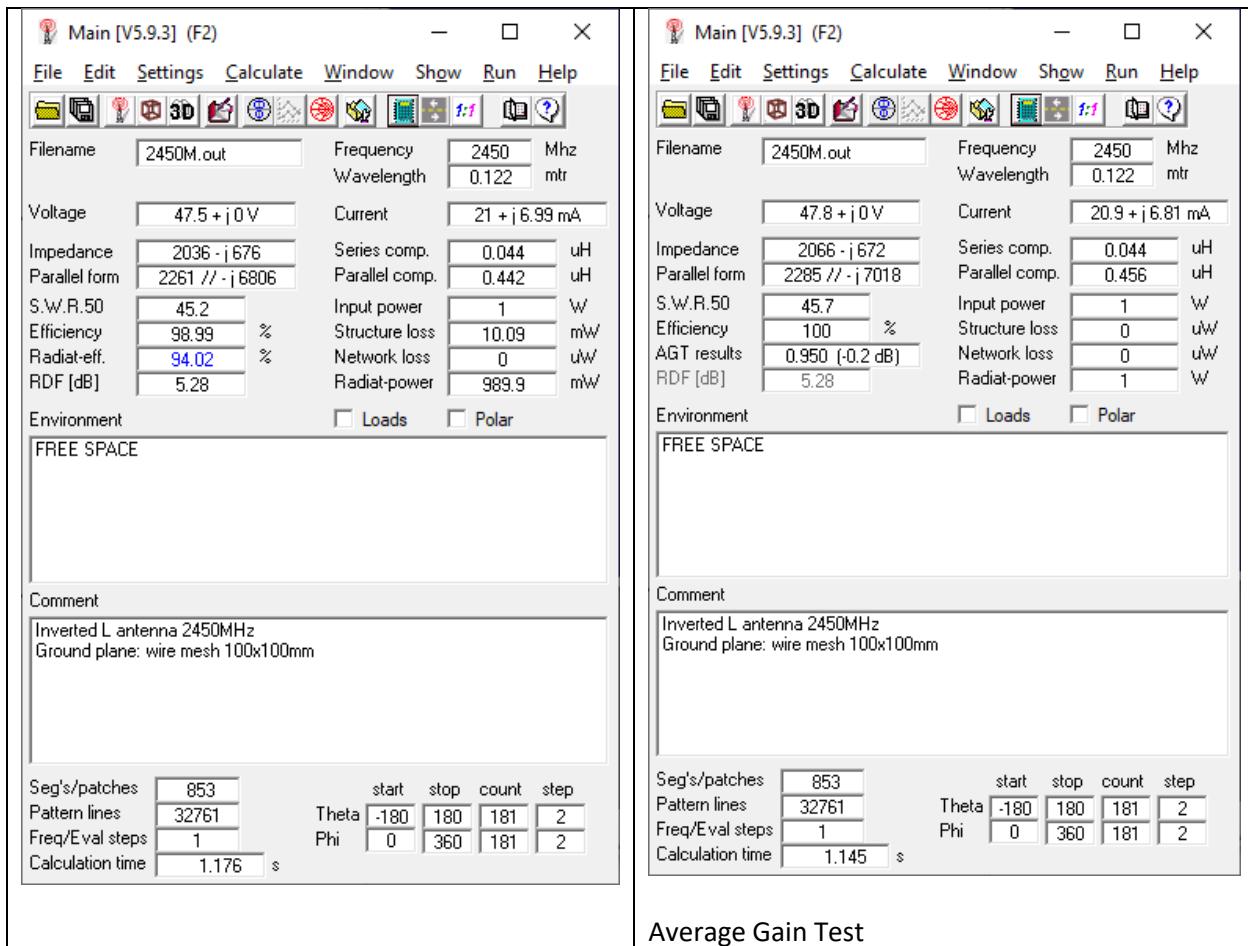
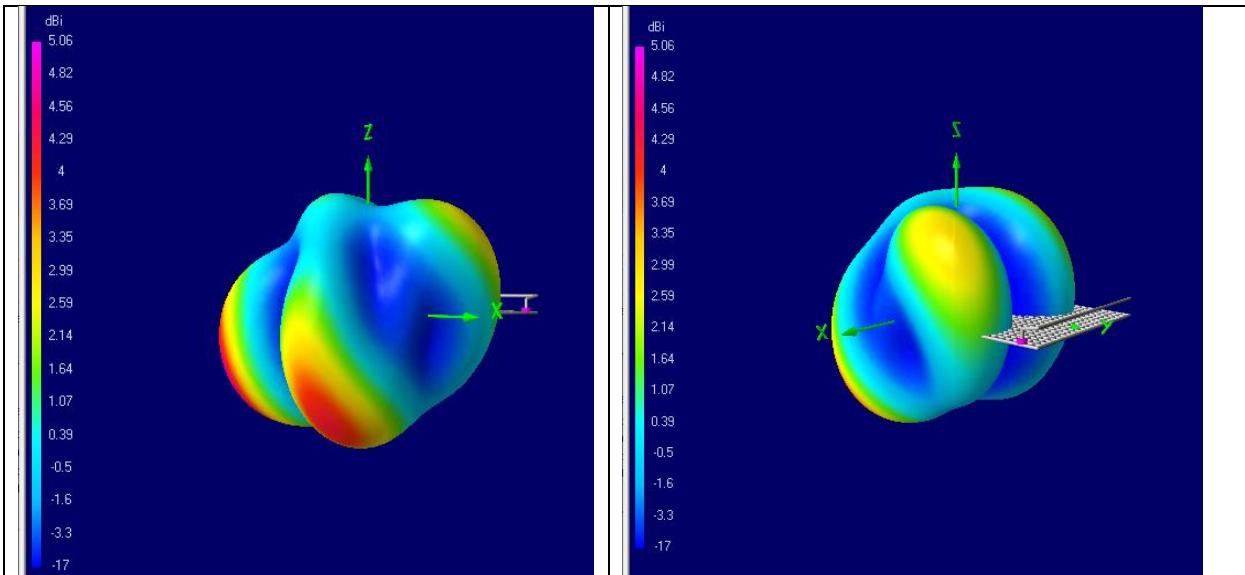
FR	0	0	0	0	2450	0
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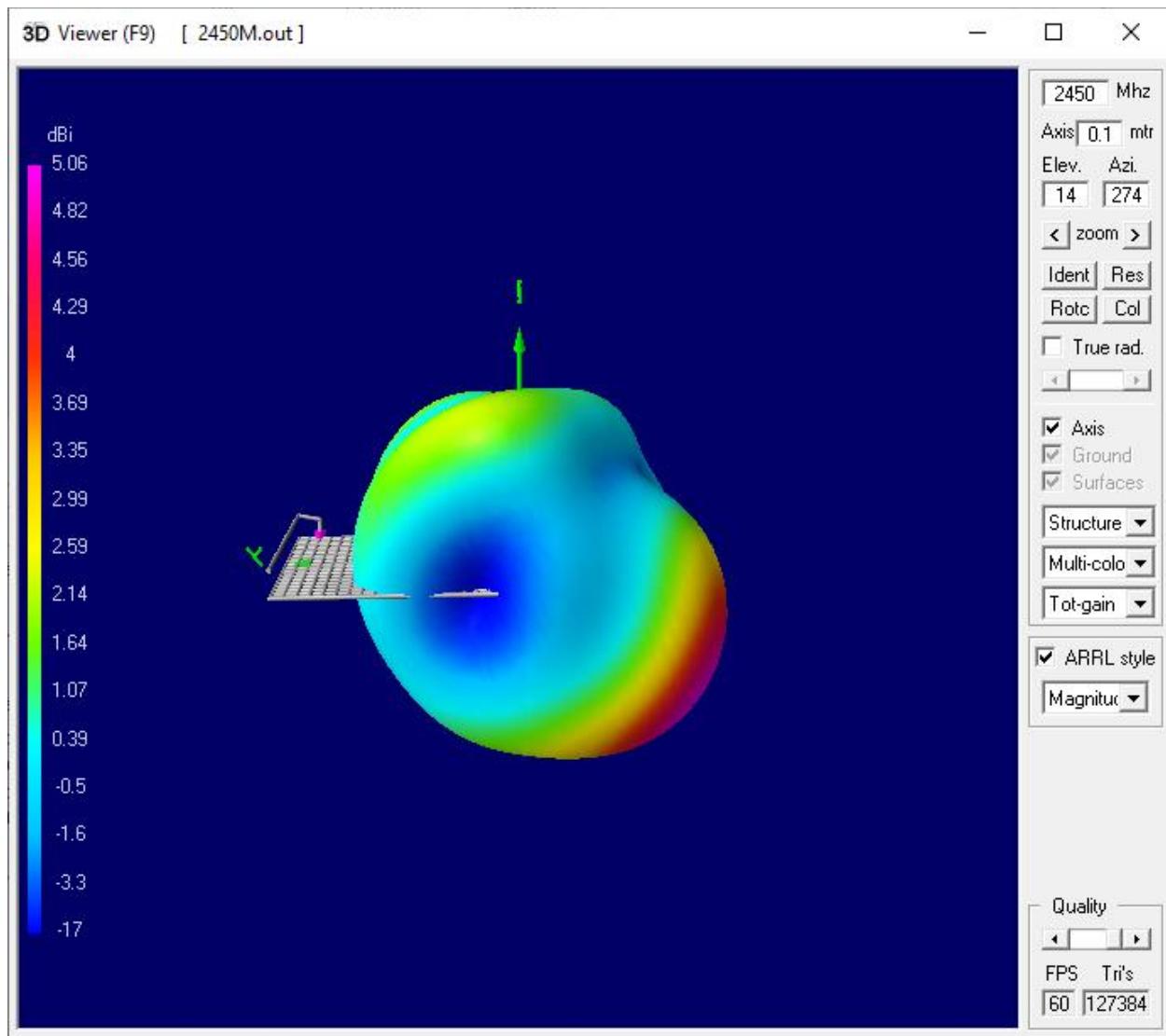
EN

Radiating wire coated with soft PVC 0.8mm thick.



Impedance @2450MHz = 2036-j670

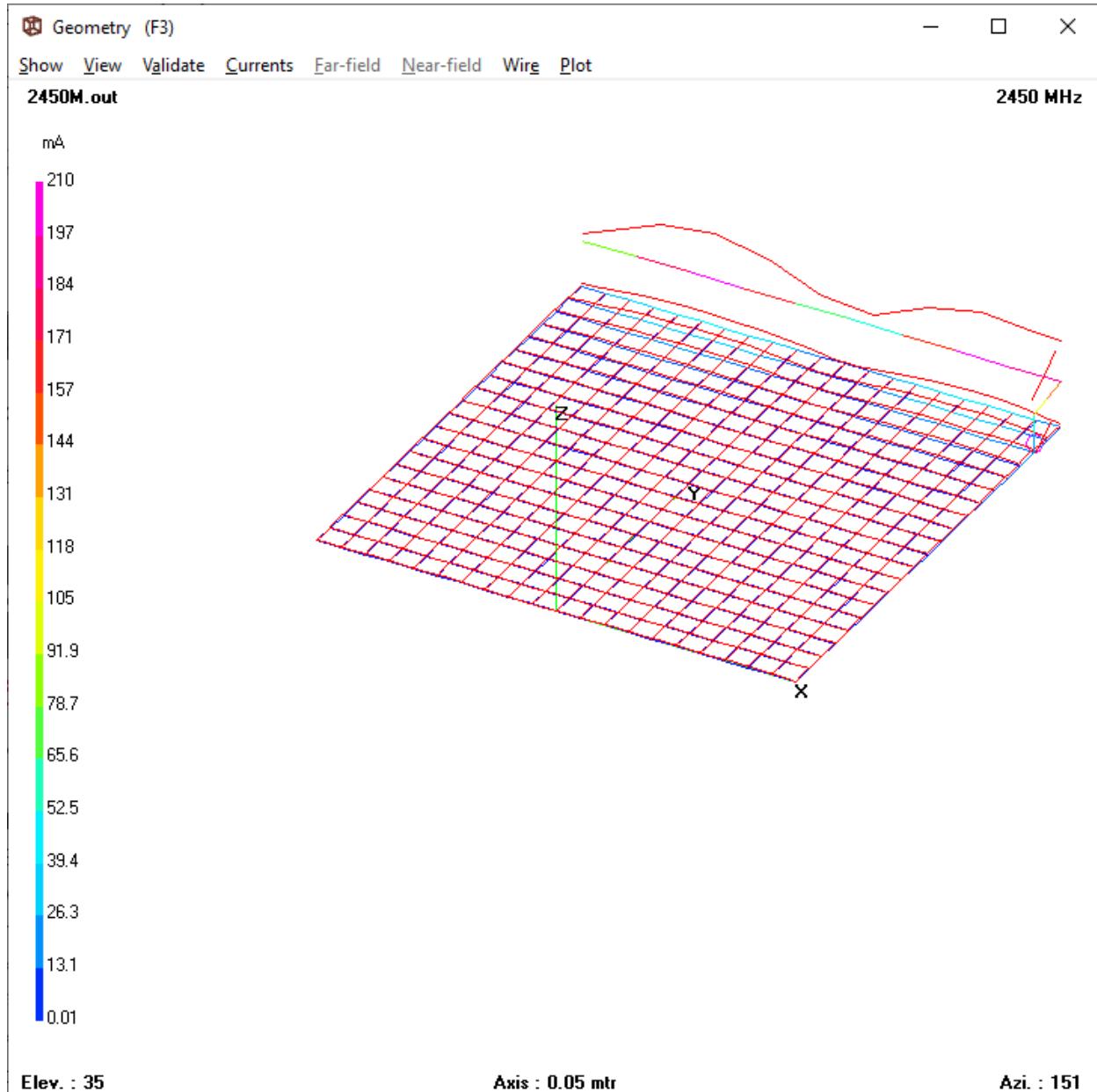




Max Gain= 5.06dBi. (Average Gain Test error result=+/-0.2dB)

Power=1W

Antenna and GP current distribution:



Current magnitude:

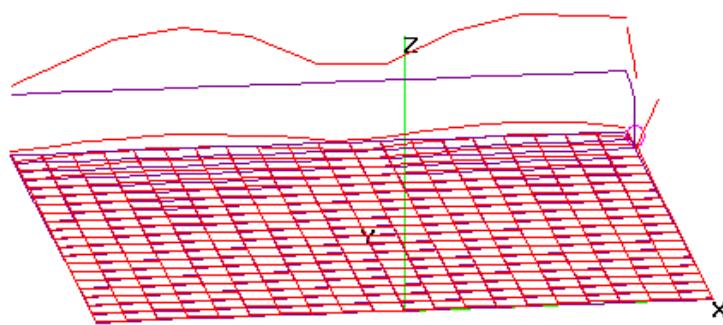
Geometry (F3)

— □ ×

Show View Validate Currents Far-field Near-field Wire Plot

2450M.out

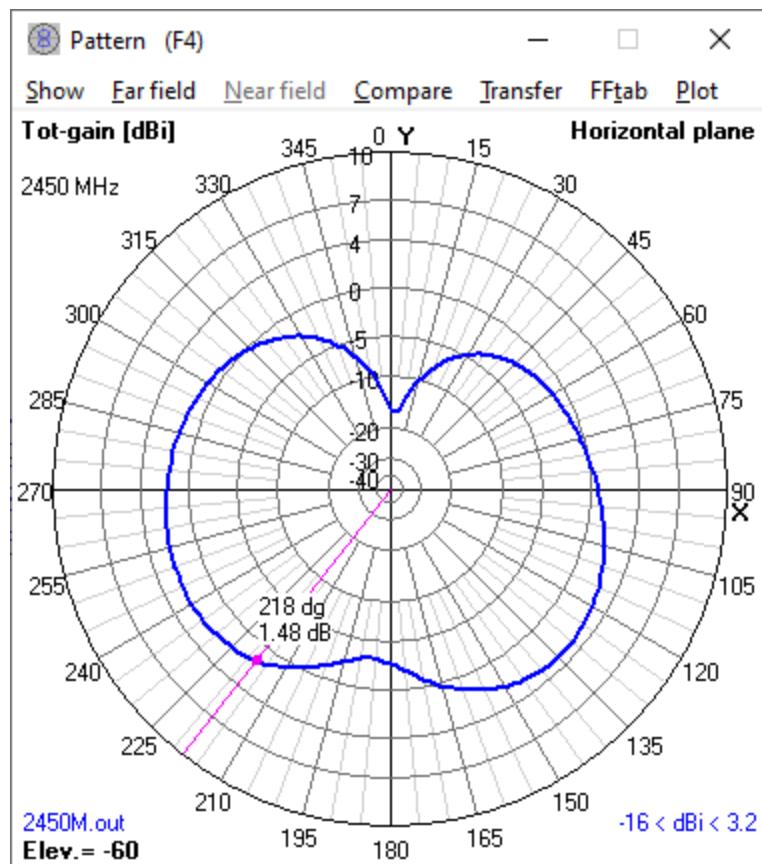
2450 MHz

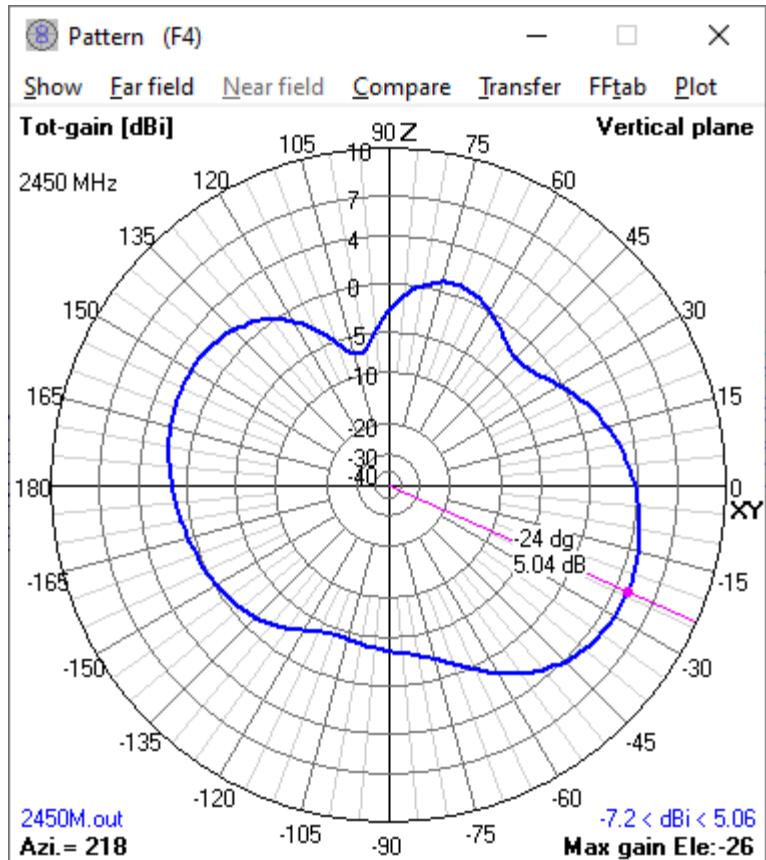


Elev. : 17

Axis : 0.05 mtr

Azi. : 188





H and V Radiation Pattern Cross Sections