

3 band VHF/UHF antenna made by YU1QT:
 resonant freq. : 50.100 MHz; 145.100 MHz ; and 433.000 MHz
 Dimensions:

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PVC coated wire 1mm diameter(steel,or copper) for 6m antenna

element	total loop	squareside	boom position	pos.on holder
reflector	6.312m	1.578m	0m	1.12m
driver6	6.088m	1.522m	1.38m	1.08m
director	5.924m	1.481m	2.64m	1.05m

AL solid wire 4mm diameter for 2m antenna

element	total loop	squareside	boom position	pos.on holder
reflector	2.208m	0.552m	0.53m	0.276m
driver2	2.140m	0.536m	0.93m	0.268m
director1	2.060m	0.516m	1.31m	0.258m
director2	1.960m	0.490m	1.73m	0.245m
director3	1.924m	0.482m	2.15m	0.241m

AL solid wire 4mm diameter for 0.7m antenna

element	total loop	squareside	boom position	pos.on holder
reflector	0.758m	0.190m	0.815m	0.095m
driver 0.7	0.702m	0.176m	0.930m	0.088m
director1	0.294m		1.060m	0m
director2	0.298m		1.260m	0m
director3	0.293m		1.486m	0m
director4	0.288m		1.770m	0m
director5	0.285m		1.997m	0m

Holder dimension :

6m antenna 12 pieces fishing road's 6m long(two last segments)

2m antenna 6 pieces wooden block 20x20x600mm

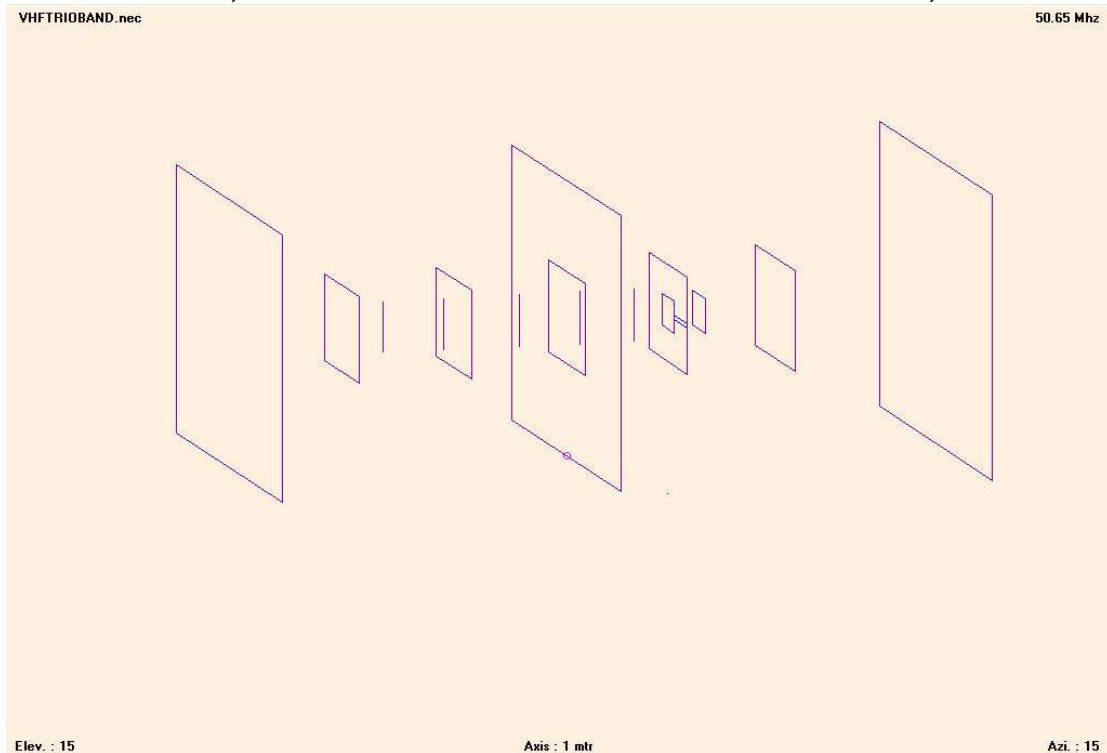
0.7m antenna 2 pieces wooden block 20x20x220mm

boom is wooden block 40x40x2700mm,or 1m long wooden block
 in middle of antenna + 2 pieces 1m long plastic pipe 40mm
 diameter at ends,or similar dielectric boom.

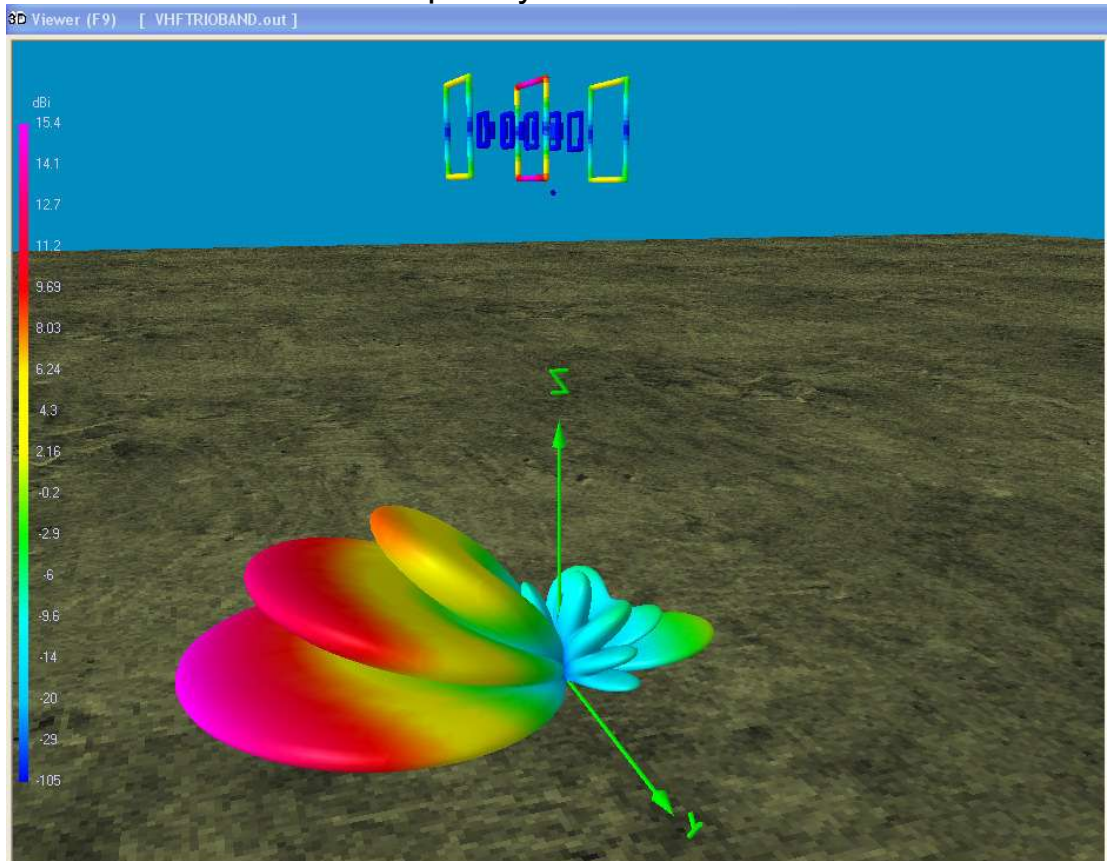
Source for 2m/0.7m is on 0.7 driver,source for 6m antenna is on
 6m driver(separate cable).

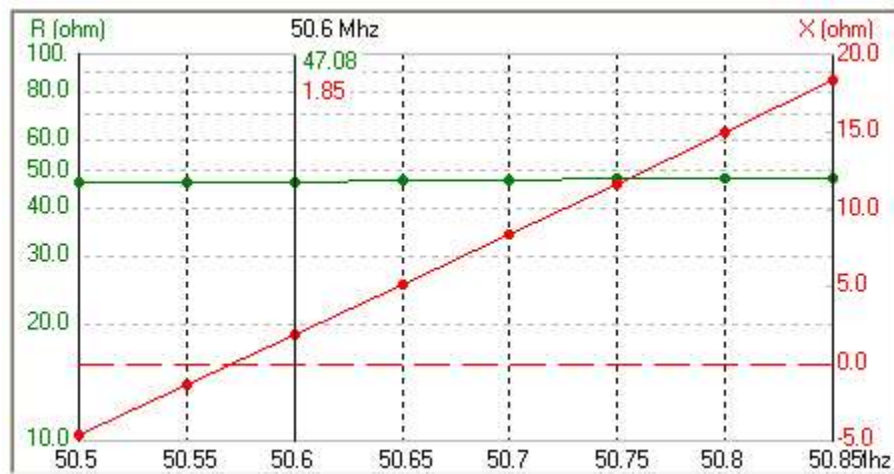
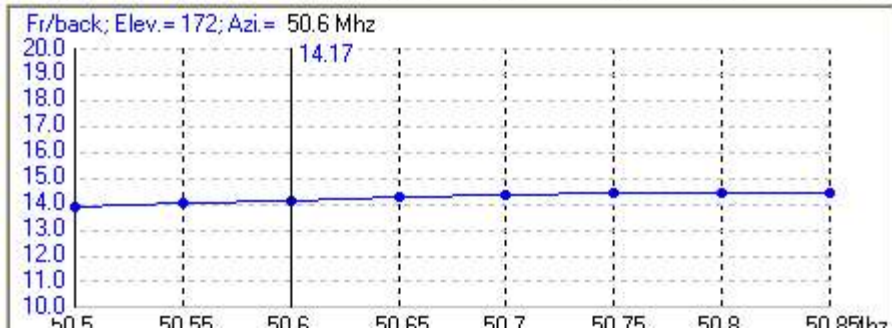
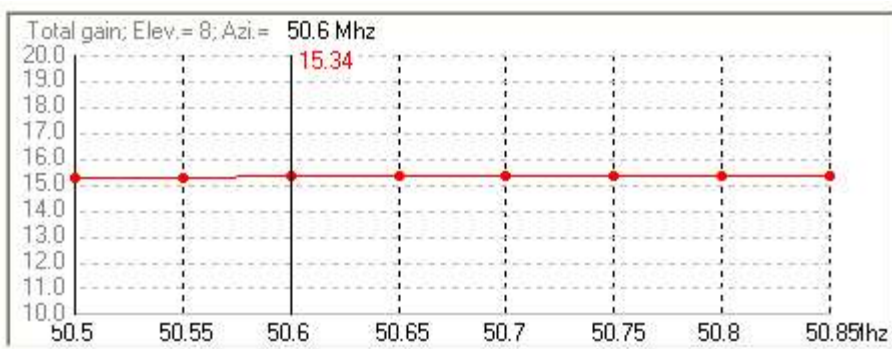
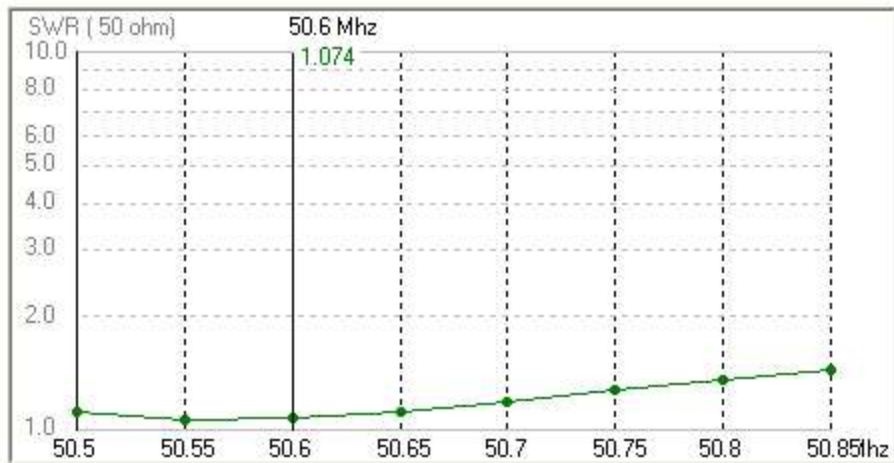
Transformation line going from 0.7 driver to 2m driver,made from
 18 cm RG-58 cable direct.

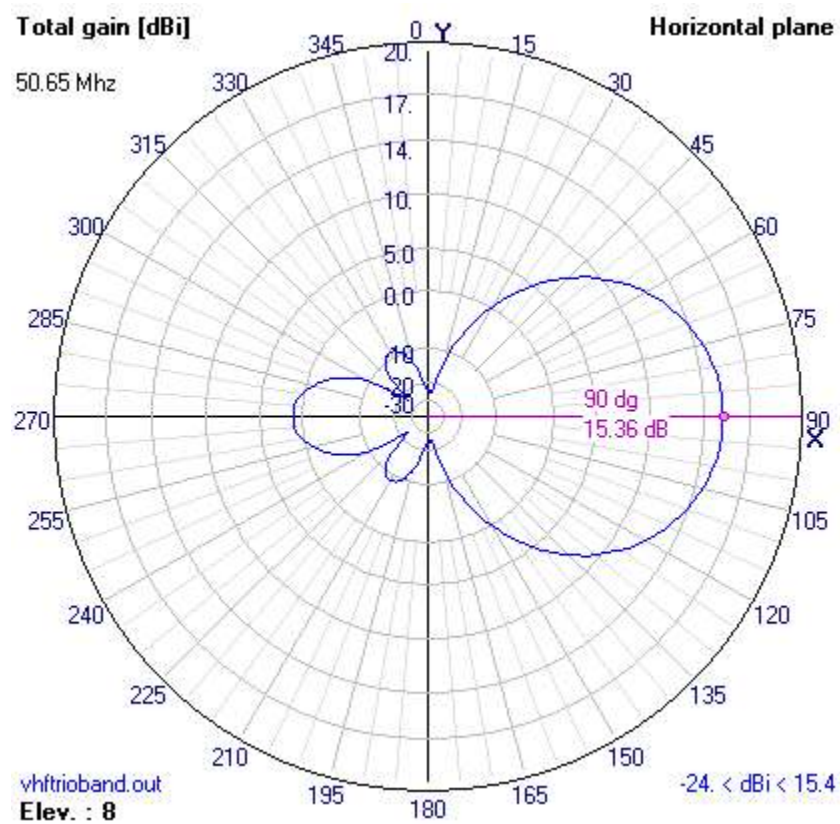
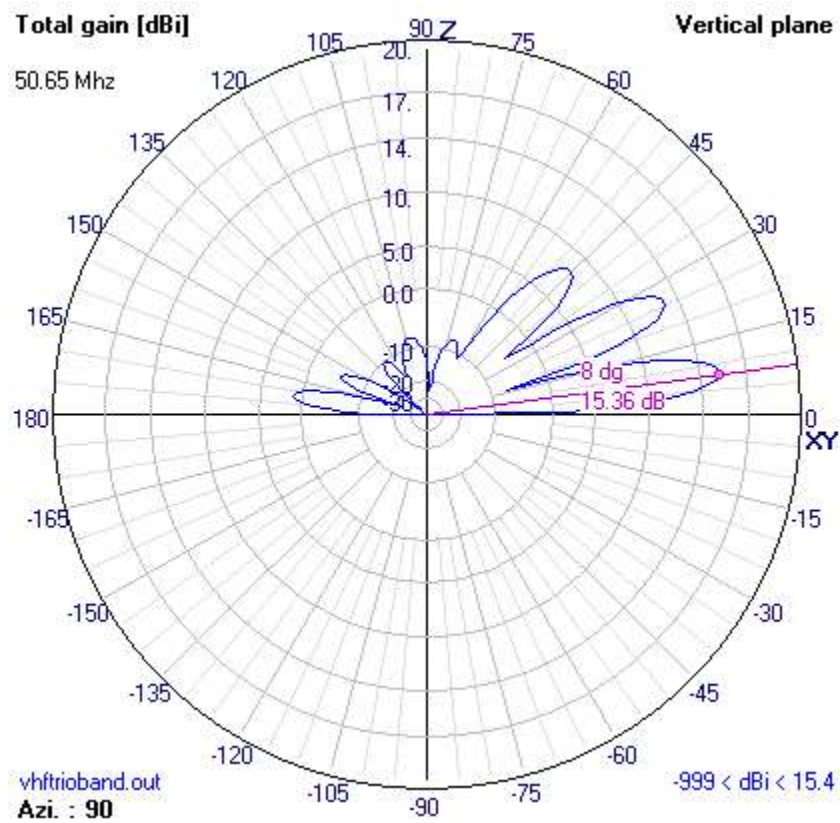
Element thickness made from AL pipes is enough for SWR 1.5:1 from 144-146, and 432-435 Mhz. In resonance SWR is 1,1:1.



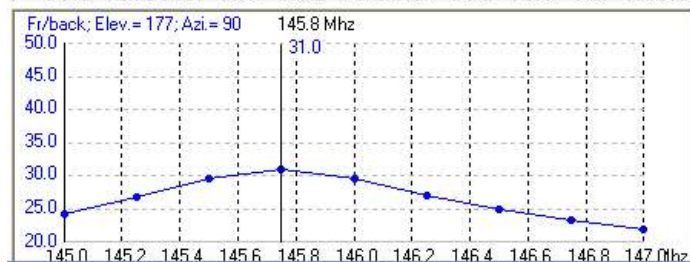
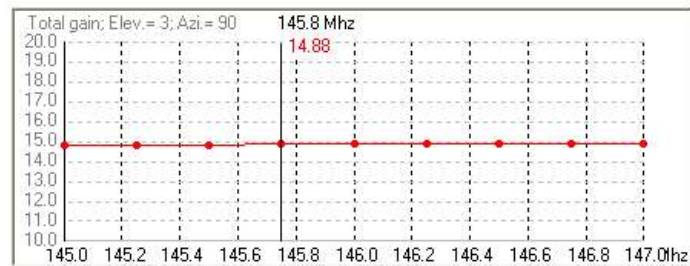
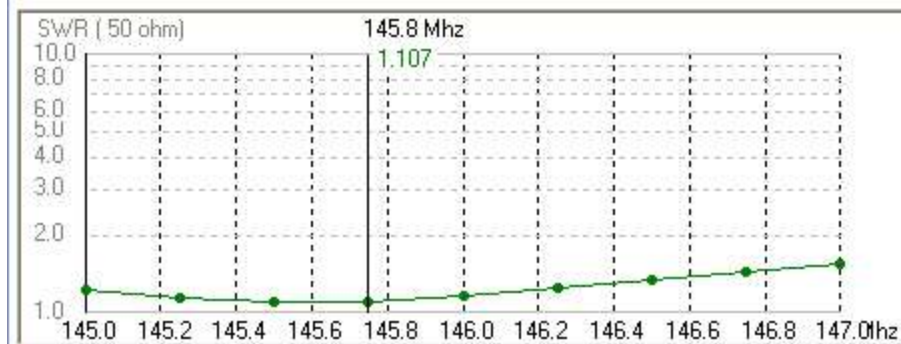
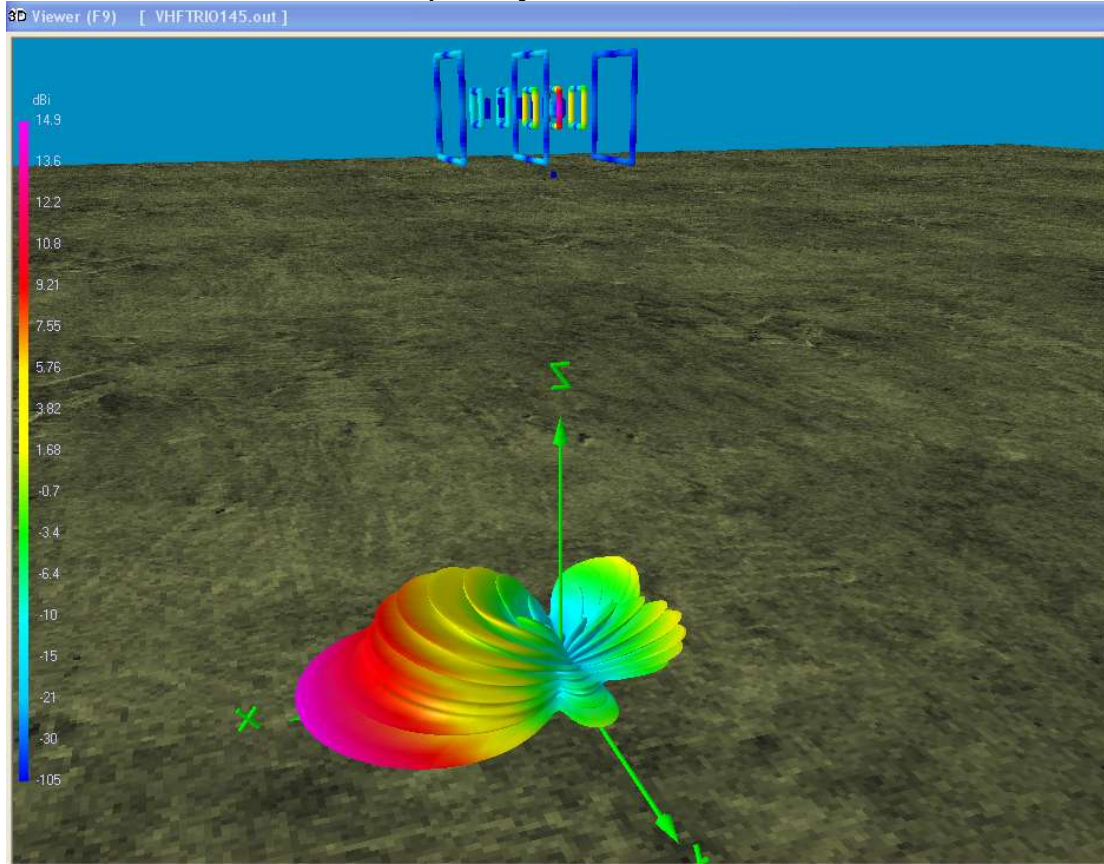
All diagram's are given in dBi with ground, on 10m high mast.
All diagram's are freq. Shifted in "skin effect" reason.
6m antenna resonant frequency 50.100 MHz

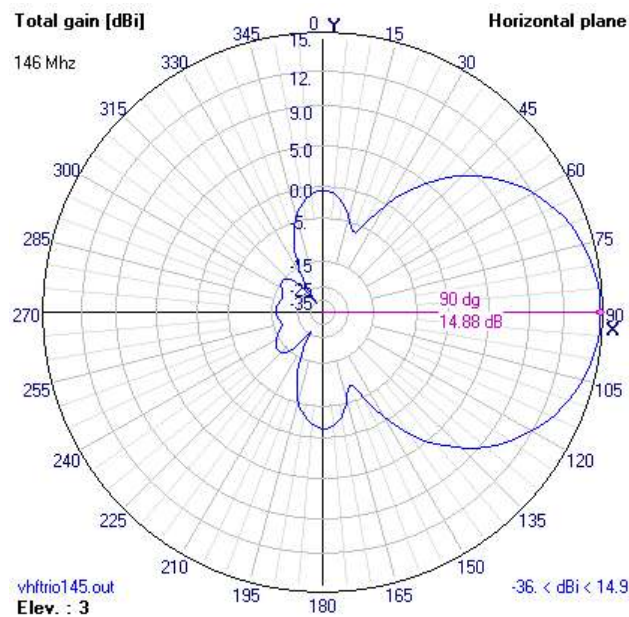
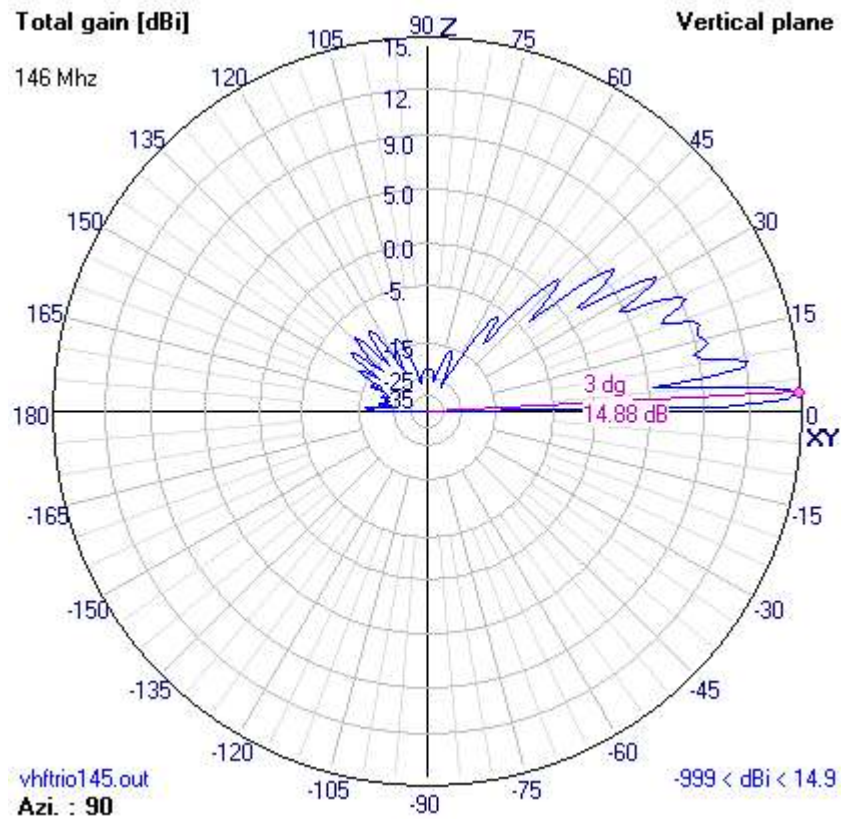
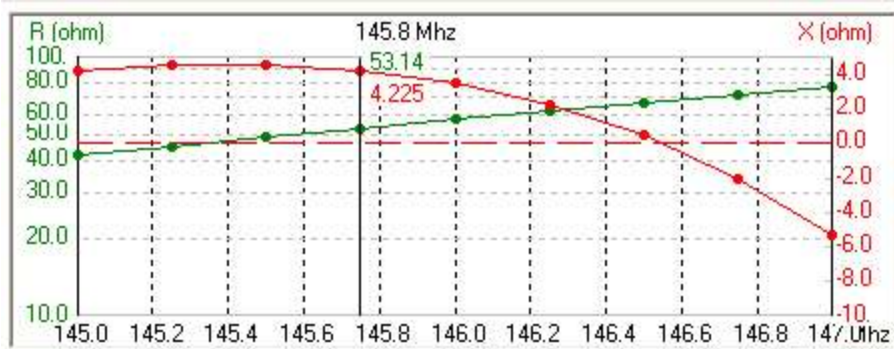




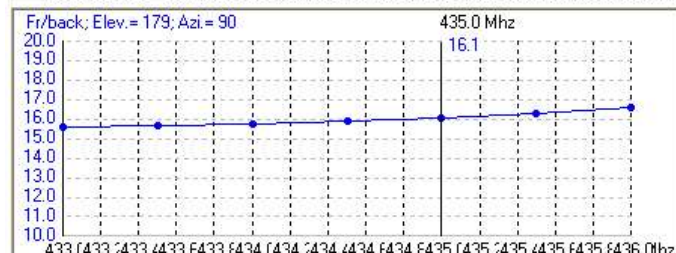
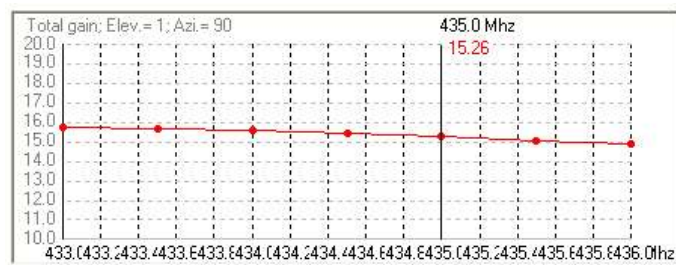
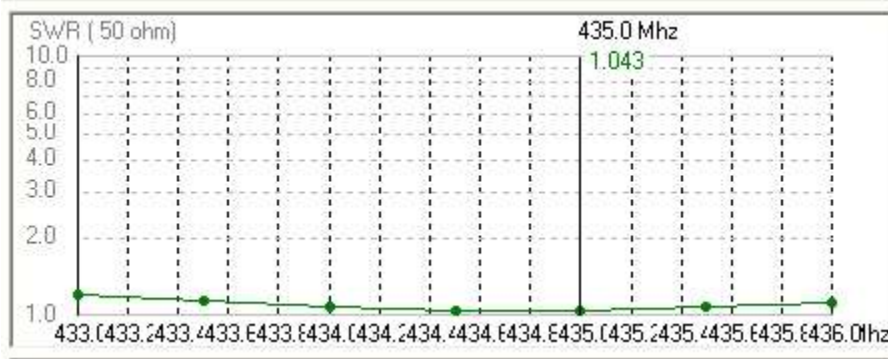
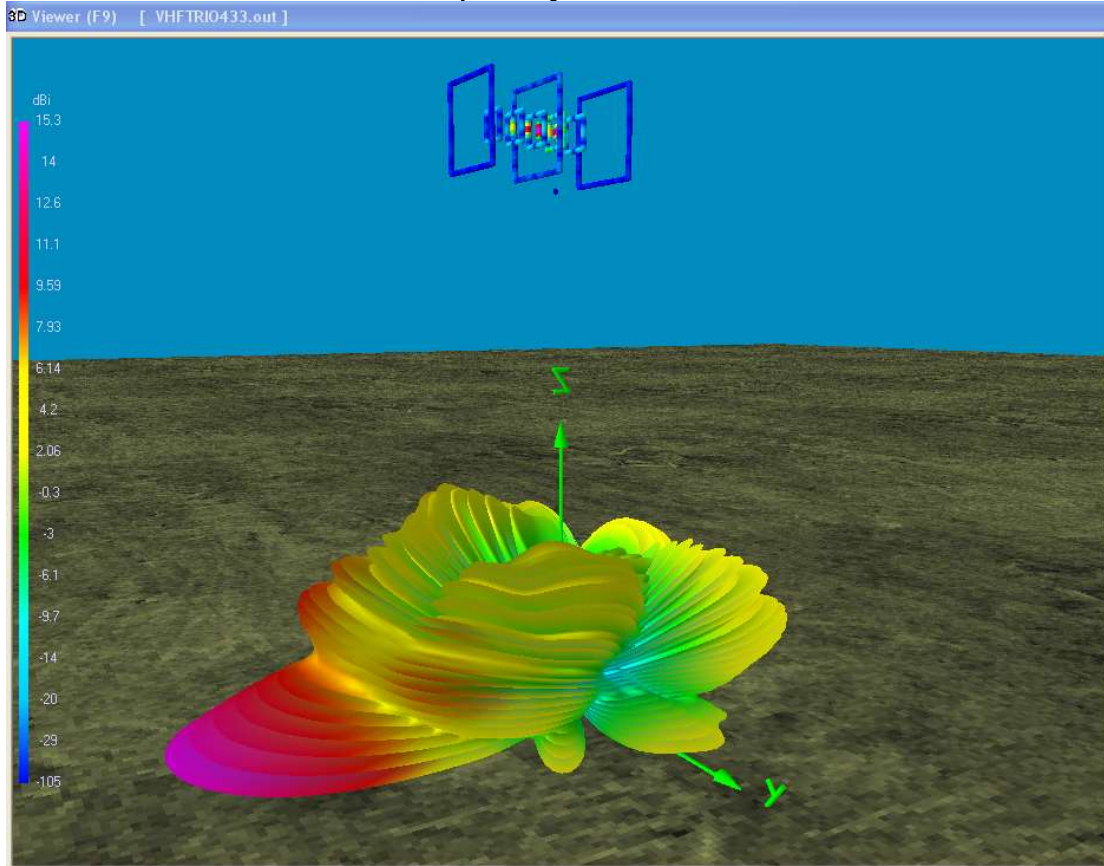


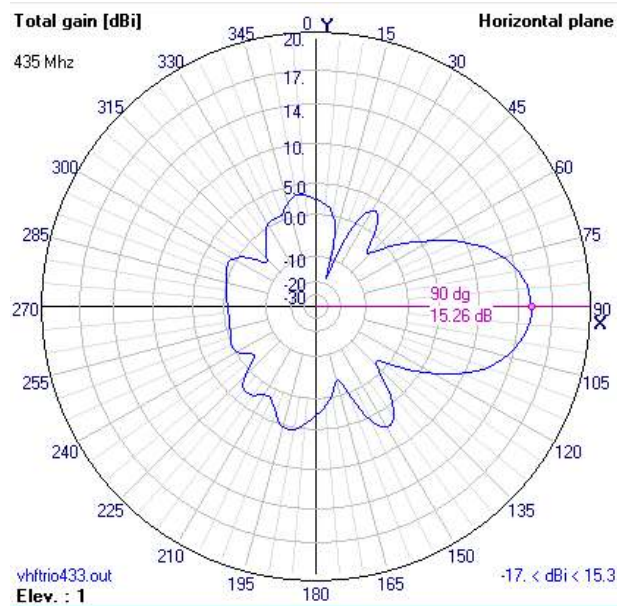
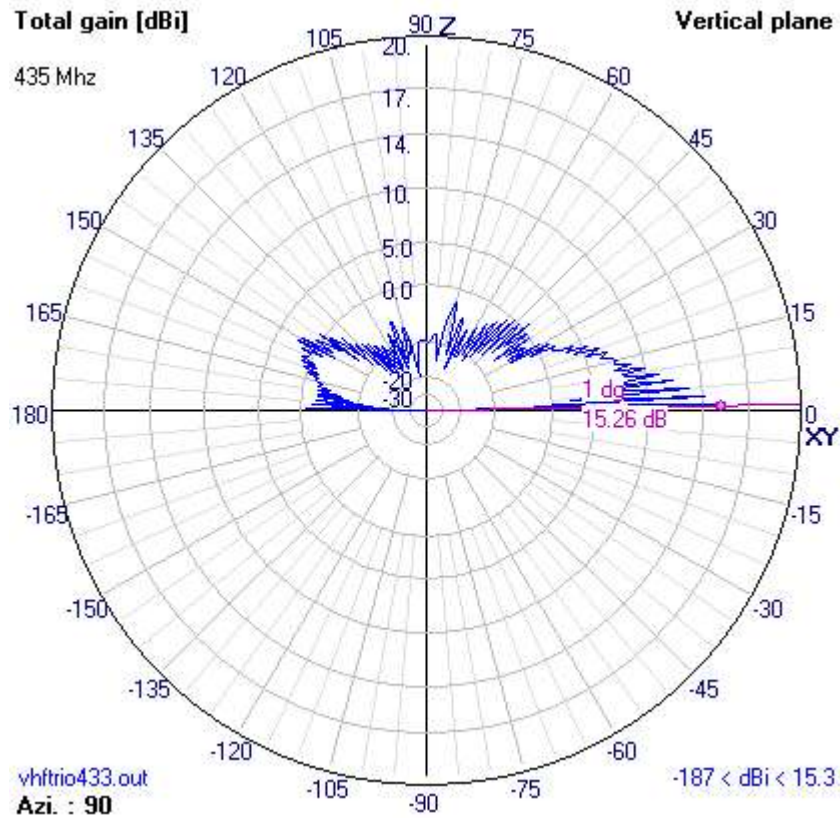
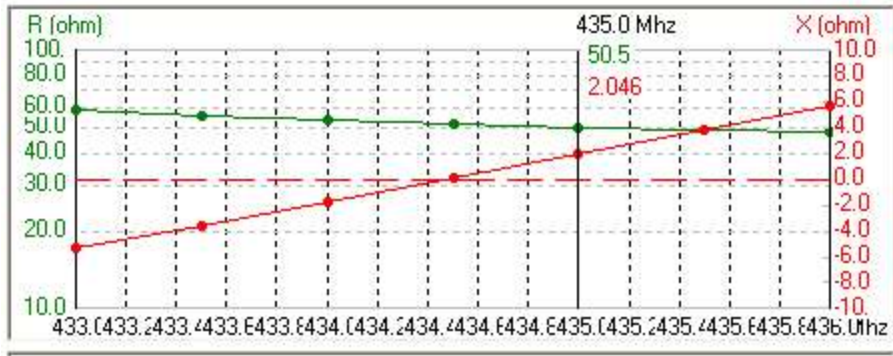
2m antenna resonant frequency 145.100 MHz





0.7m antenna resonant frequency 433.000 MHz





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