

251 37
H UL94V0
H UL-E142920

R11 R12
R10
U1
U2
R4
R7
R6
R5
R3
R2
R1
R4
R7
R6
R5
R3
R2
R1

Battery
Solar

U1
U2
R4
R7
R6
R5
R3
R2
R1

IP1
IP2
SW1
SW2
C1
C2
C3
C4
C5
C6
C7

Location battery

1: Apply 15 mm strip over the hole.
2: Cut at 31.5 mm from edge.
3: Remove excess tape

15 mm

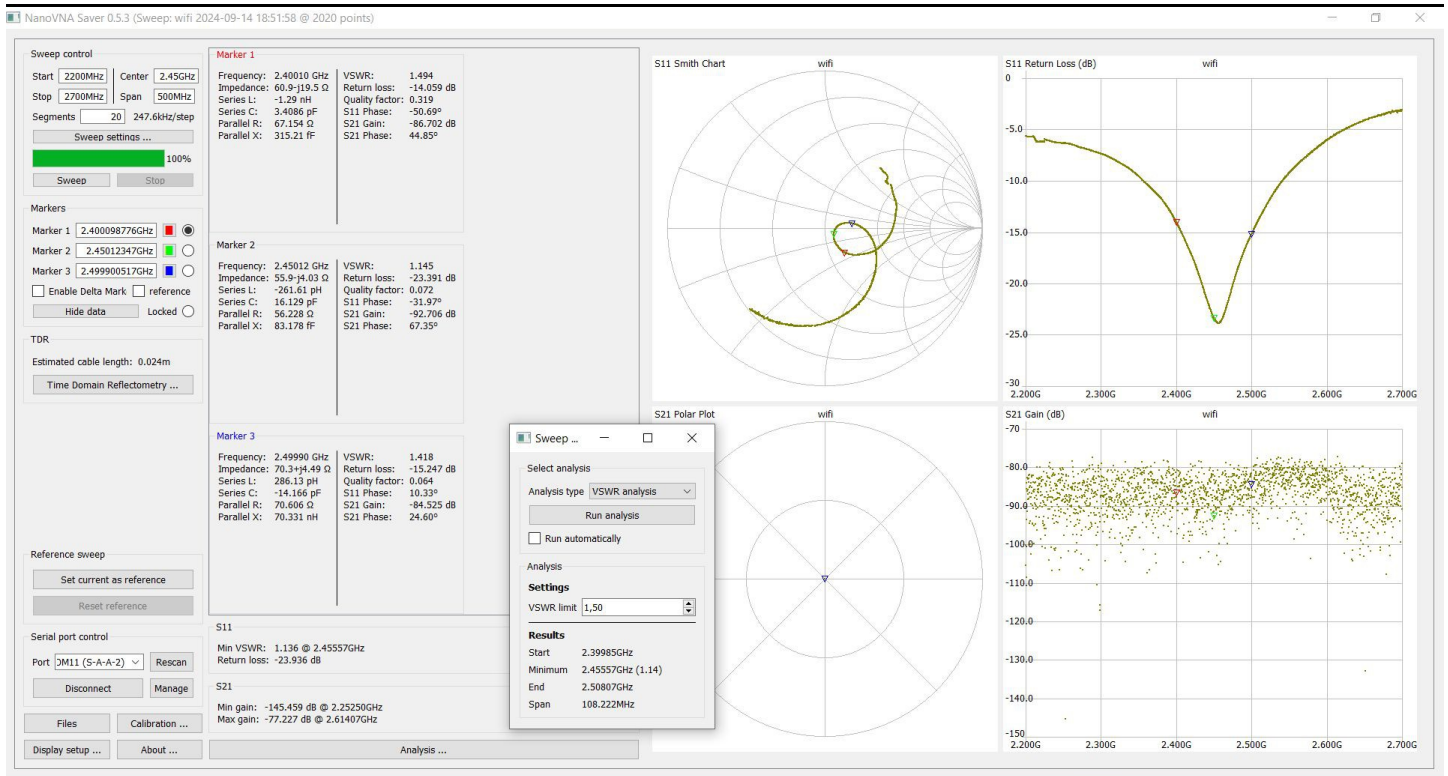
31.5 mm

Aluminium Tape

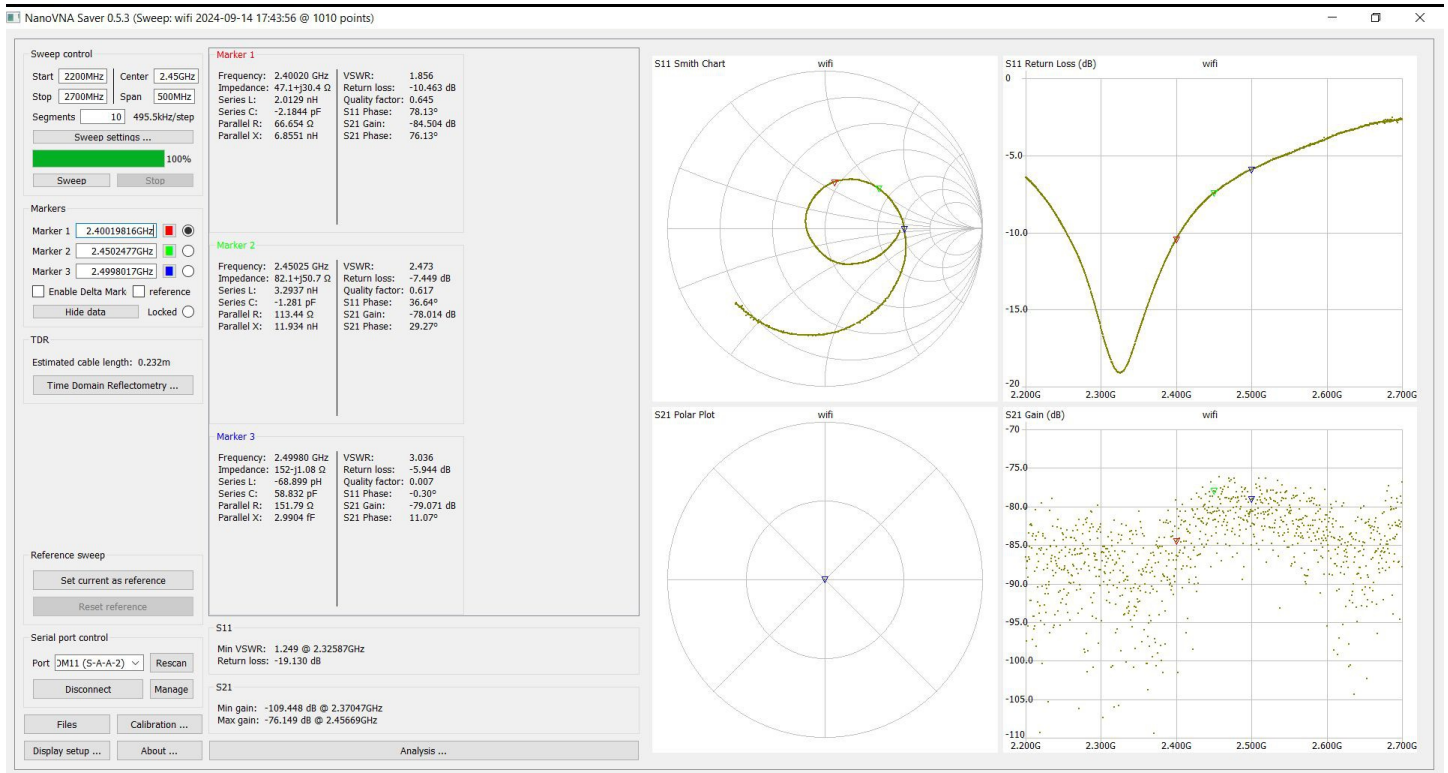
Lockring Inside!

DJ7 4060P
3.7V 1900mAh 7.03
5J00 20230530

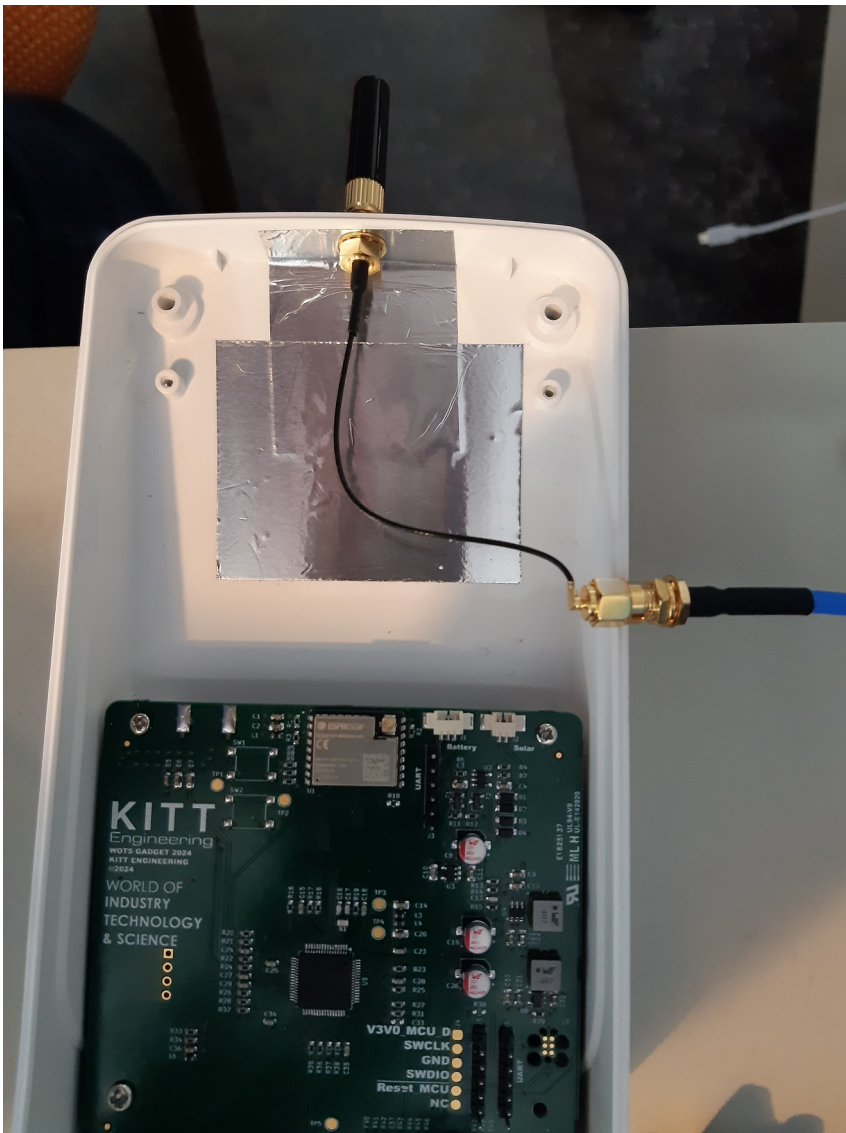
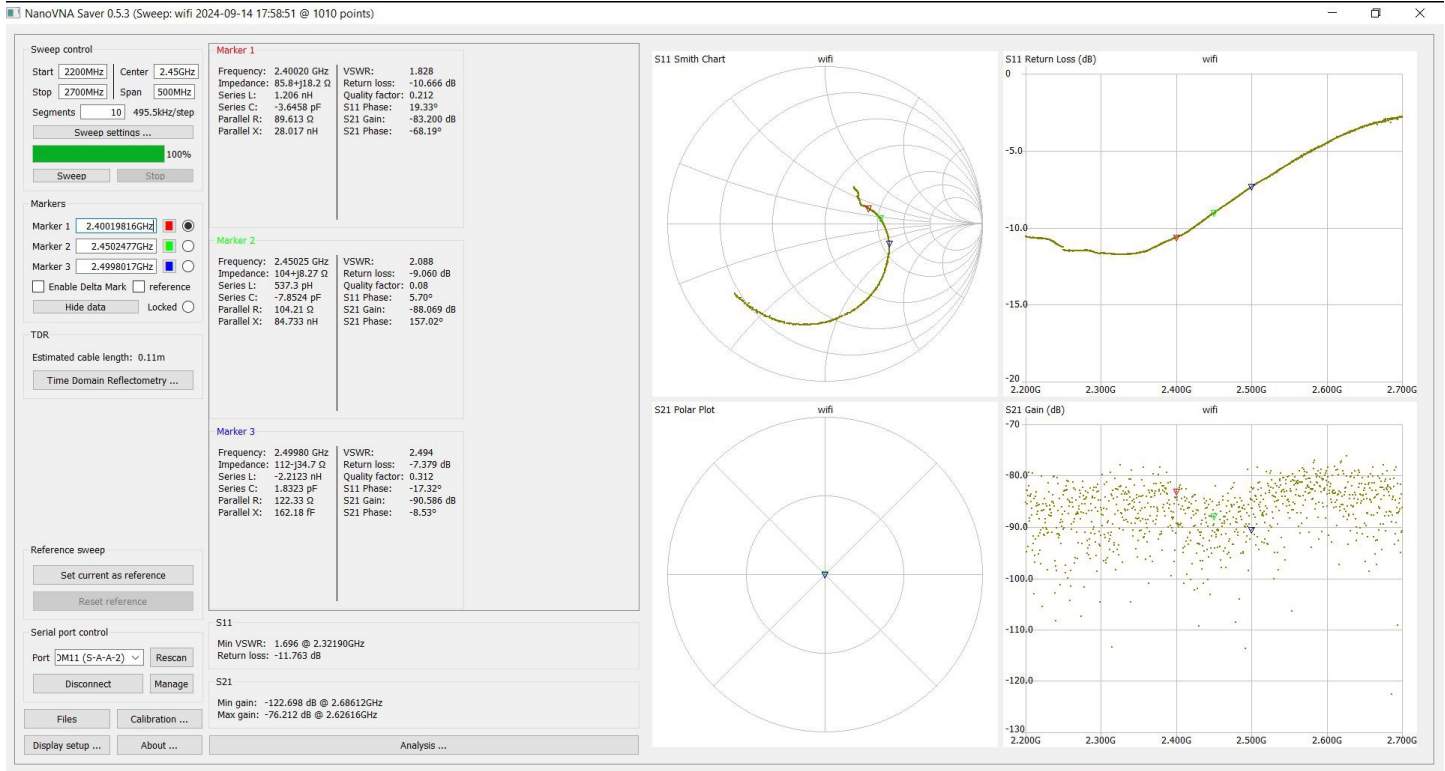
Result after tuning:



Result with no tuning:



Result with “large” metal plane:



Comment:

With a “large” or an “infinite” groundplane the antenna peak shifts to below the Wifi band.

The specified returnloss < -8 dB is just met.

The advised patch is in fact a “resonant” counterpole. (Tuned!)

That renders a return loss smaller than -15 dB in the WiFi band.

See first plot.