

Antennas reviews

Learn about antenna models and sweeps

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- [□ Heliumtech 50cm VNA sweep](#)
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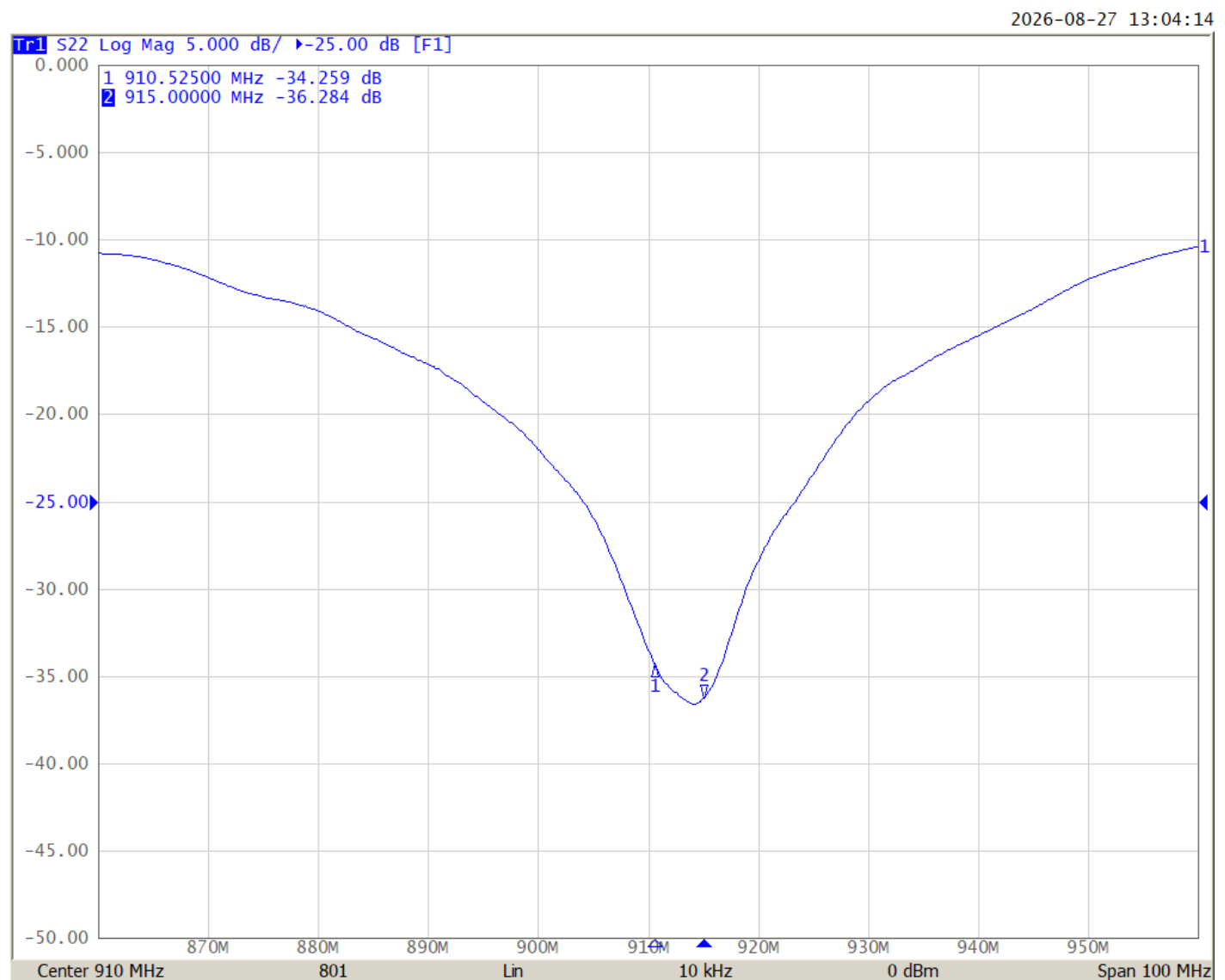
□ Gizont 167mm 915mHz

VNA sweep

The Gizont 167mm is a very good narrow band antenna. It is likely a 1/2 wave dipole, **They say it is a 10 dBi but is more likely a 2-3dBi by lenght...**

Purchase link: <https://www.aliexpress.com/item/1005004607615001.html>

Result: -34.2 dB return loss at 910mHz, a perfect result (1.04 VSWR at 32.925230828 cm)



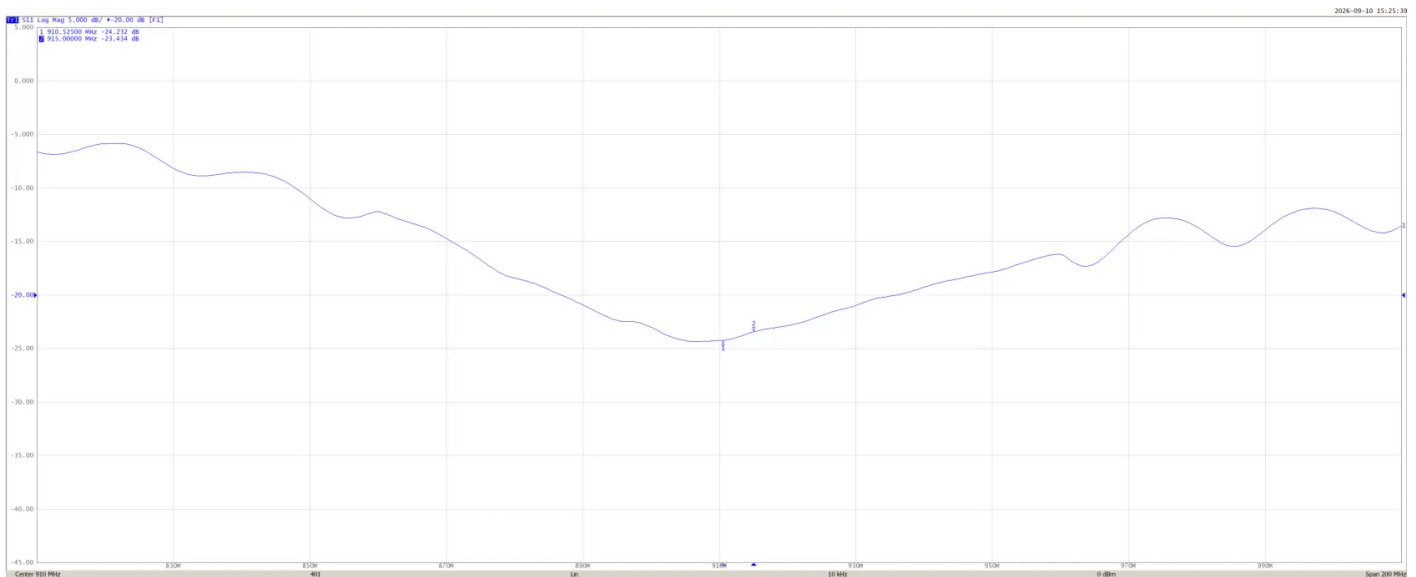
□ Gizont 40cm 915mHz VNA sweep

The Gizont 167mm is a very good (slightly wider band) antenna. This is likely an impedance matched 5/8-wave or a colinear (multi-element). **They say it is a 10 dBi but is more likely a 5dBi by lenght...**

The bigger Gizont 40cm
-24dB of return loss is pretty good
It is much wider band the the 167cm, it is a good one.

Purchase link: <https://www.aliexpress.com/item/1005007121522456.html>

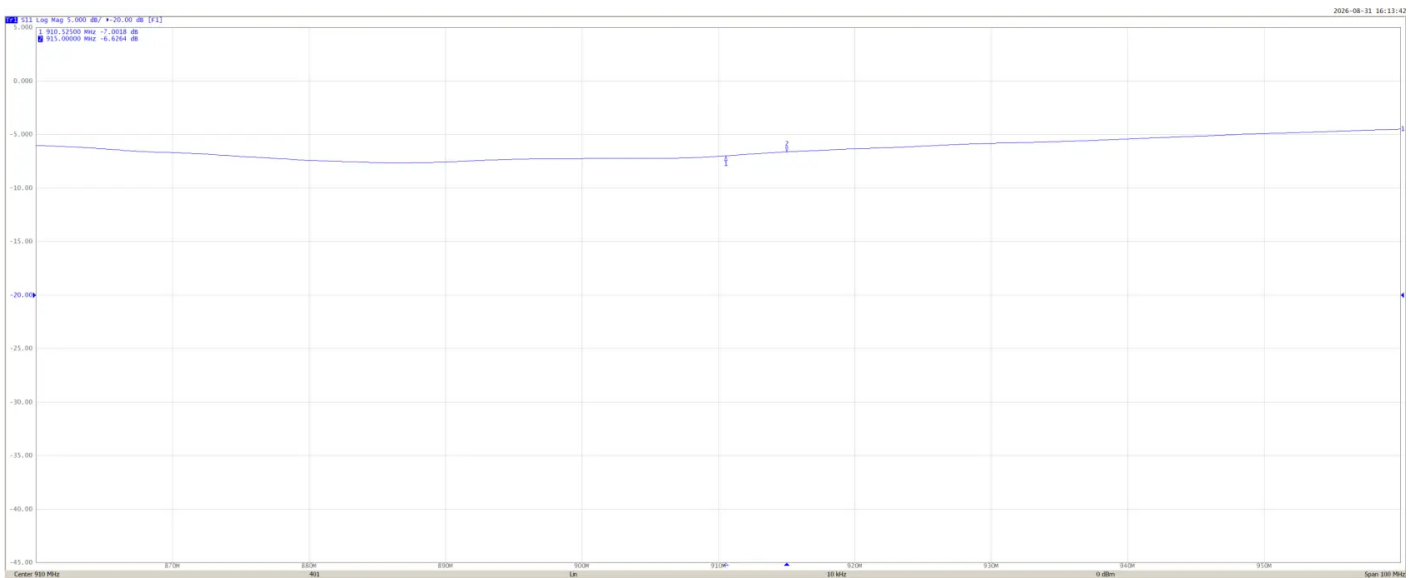
Result: -24dB of return loss at 910mHz is pretty good.
(Calibrated for a span of 100MHz, but displays a span of 200MHz, so good enough)



ABBREE 40cm 915 mHz VNA sweep

DO NOT BUY

This is a sweep of the 40cm ABBREE antenna, the result of -7 dB of return loss is garbage, the antenna does not resonate anywhere from 1hz to 8GHz... Unusable. disappointing. Disgustang!



This is a bad antenna, do not purchase.

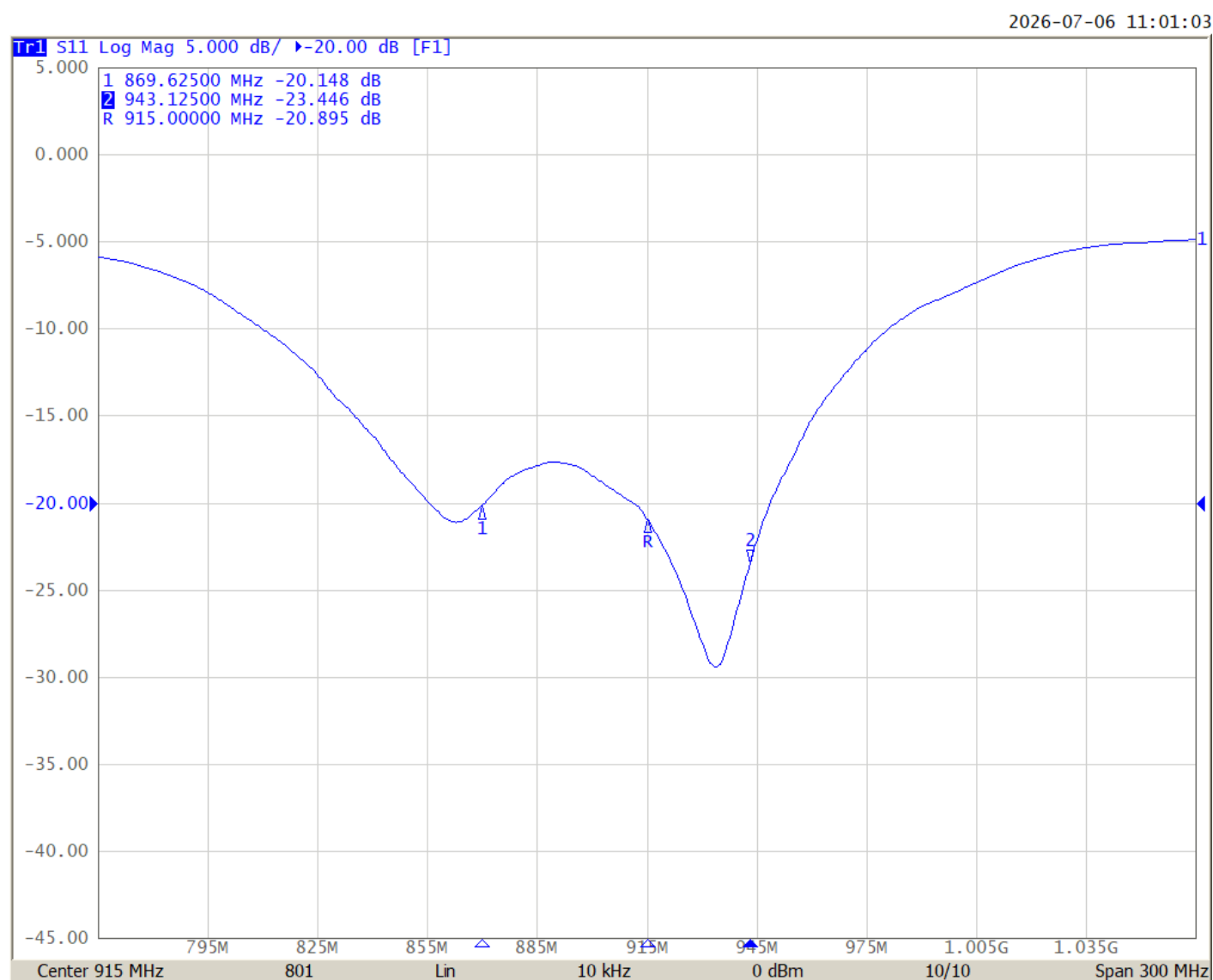
Purchase link just for reference: <https://www.aliexpress.com/item/1005012228888082.html>

□ Heliumtech 50cm VNA sweep

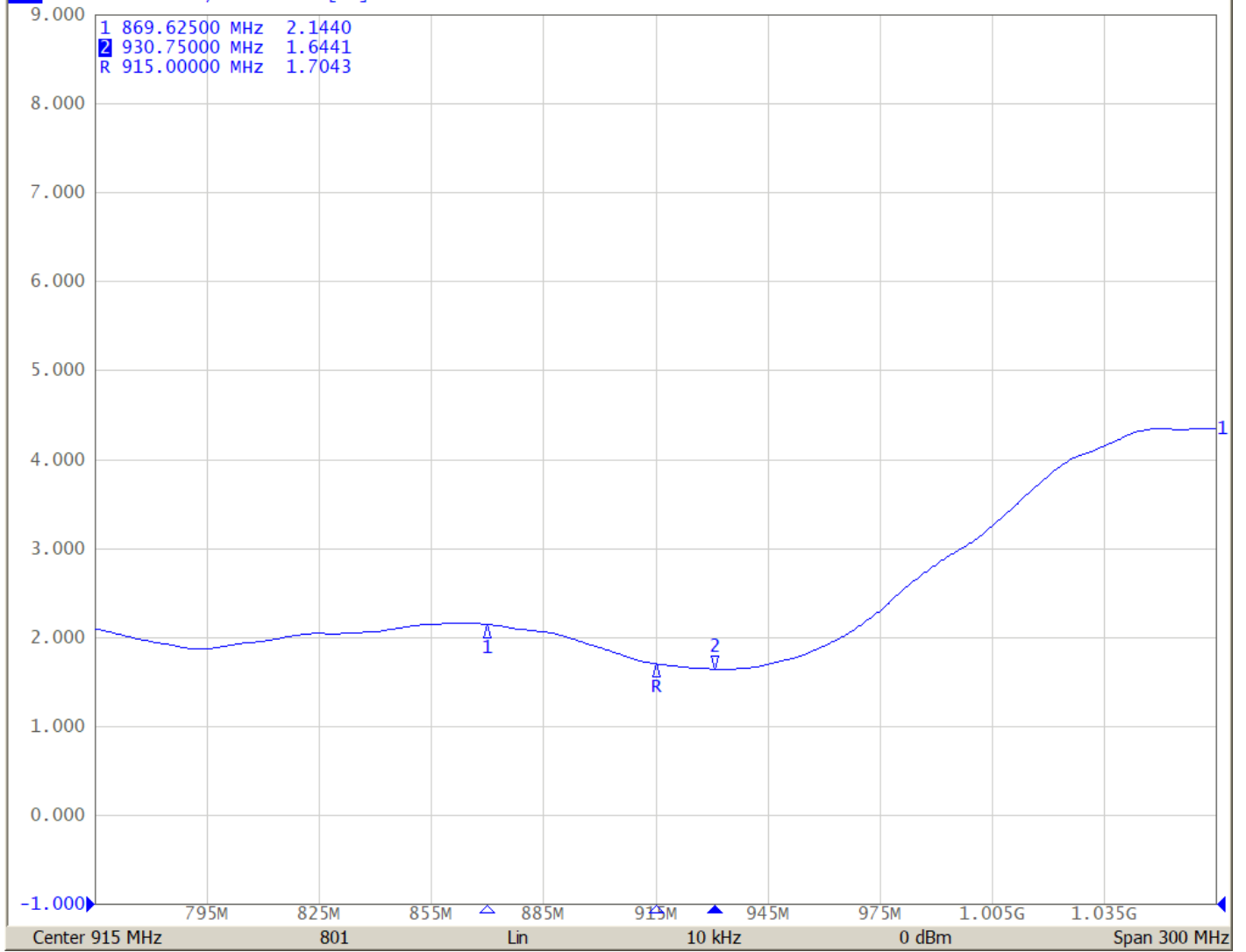
Heliumtech 5.8 dBi (50cm) 915 MHz Waterproof fiberglass Antenna with Mount Bracket Kit (N Female) from Canadian Wireless Supply on Amazon

Purchase link: <https://www.amazon.ca/dp/B0BSYKSS22>

Result: -20.9 dB at 915MHz is good enough



Tr1 S11 SWR 1.000 / ▸-1.000 [F1]



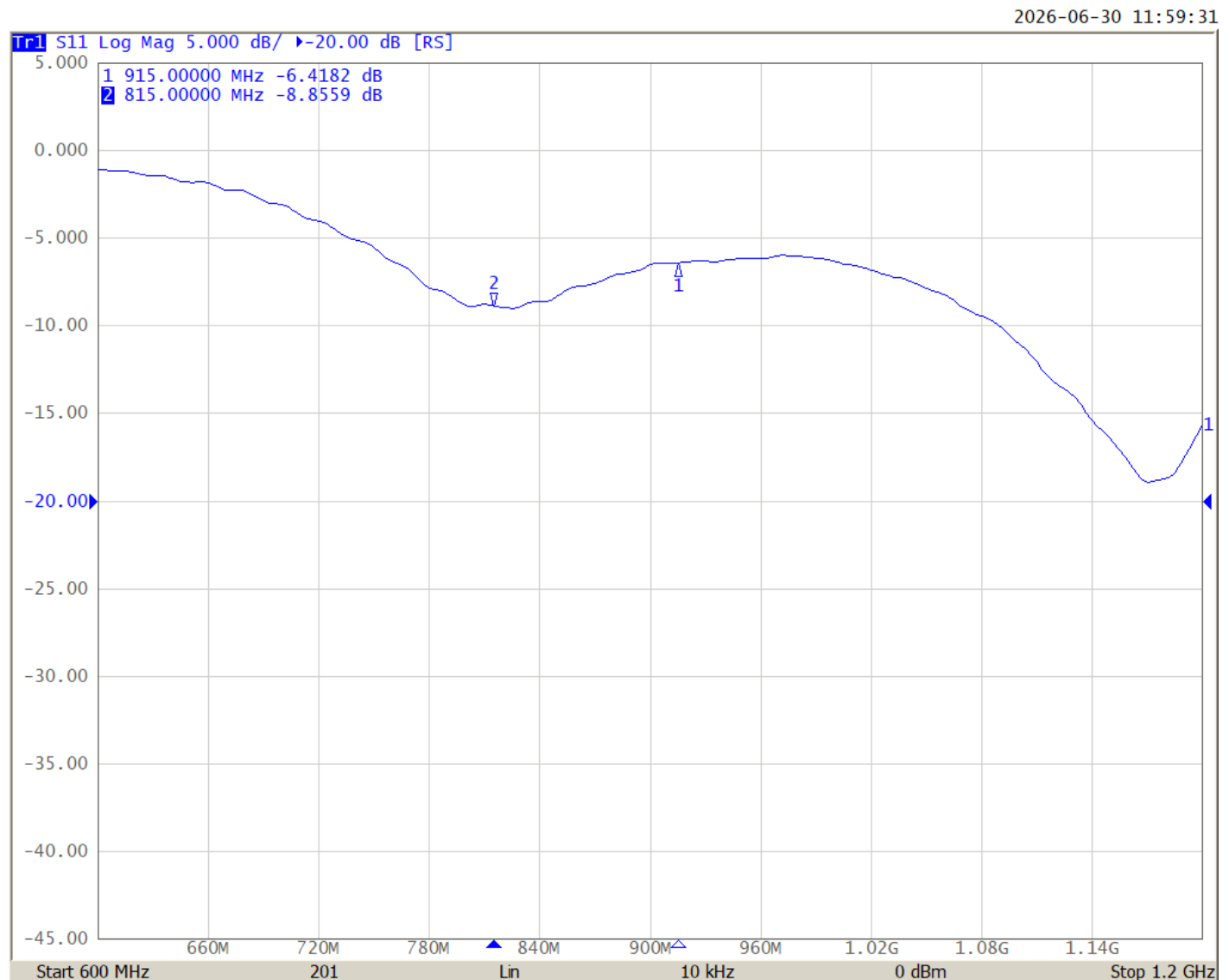
☐ Gorilley (Fake ALFA 5 dBi)

VNA sweep

☐ DO NOT BUY

This is a sweep of the "5dBi" Gorilley antenna, which looks like an ALFA 5 dBi knockoff, which ended up being a fake.

Result: **-6.4 dB** at 915MHz is **BAD**, and it only slightly resonates at 1.2GHz...



This is a bad antenna, do not purchase.

Purchase link just for reference: <https://www.amazon.ca/dp/B0G4CWQMDX>

RF Explorer 8dBi 1300mm VNA sweep

Fiberglass Antenna Kit For 902-928MHz 8dBi 1300mm

Comes with an antenna pole bracket and a 1m N female to **RP-SMA** male (RP is a weird inversion)

This antenna is the backbone of our core Meshcore network in Ottawa.

It has been proven to allow for long distance links while maintaining omnidirectionality.

Purchase Link: <https://www.seeedstudio.com/RF-Explorer-LoRa-Fiberglass-Antenna-Kit-902-928MHz-8dBi-1300mm-p-5278.html>

Result: -26.5 dB of return loss at 910.525MHz is excellent

