Meshtastic Open Source Project

Community Published Antenna Test Report

Product Data

Manufacturer	Seeed Studio		**Supplier**	Mouser Electronics
Manufacturer Part No	318020612		**Supplier Part No**	713-318020612
Manufacturer Description	Lora Fiberglass Antenna 5dBi		**Purchase Date**	02/01/2022
Manufacturer Freq Spec	860-930MHz Recommended		**Purchase Cost**	$35.00 USD
Manufacturer Datasheet	NO DATASHEET AVAILABLE — https://www.mouser.com/ProductDetail/713-318020612			

Manufacturer Supplied Product Photo

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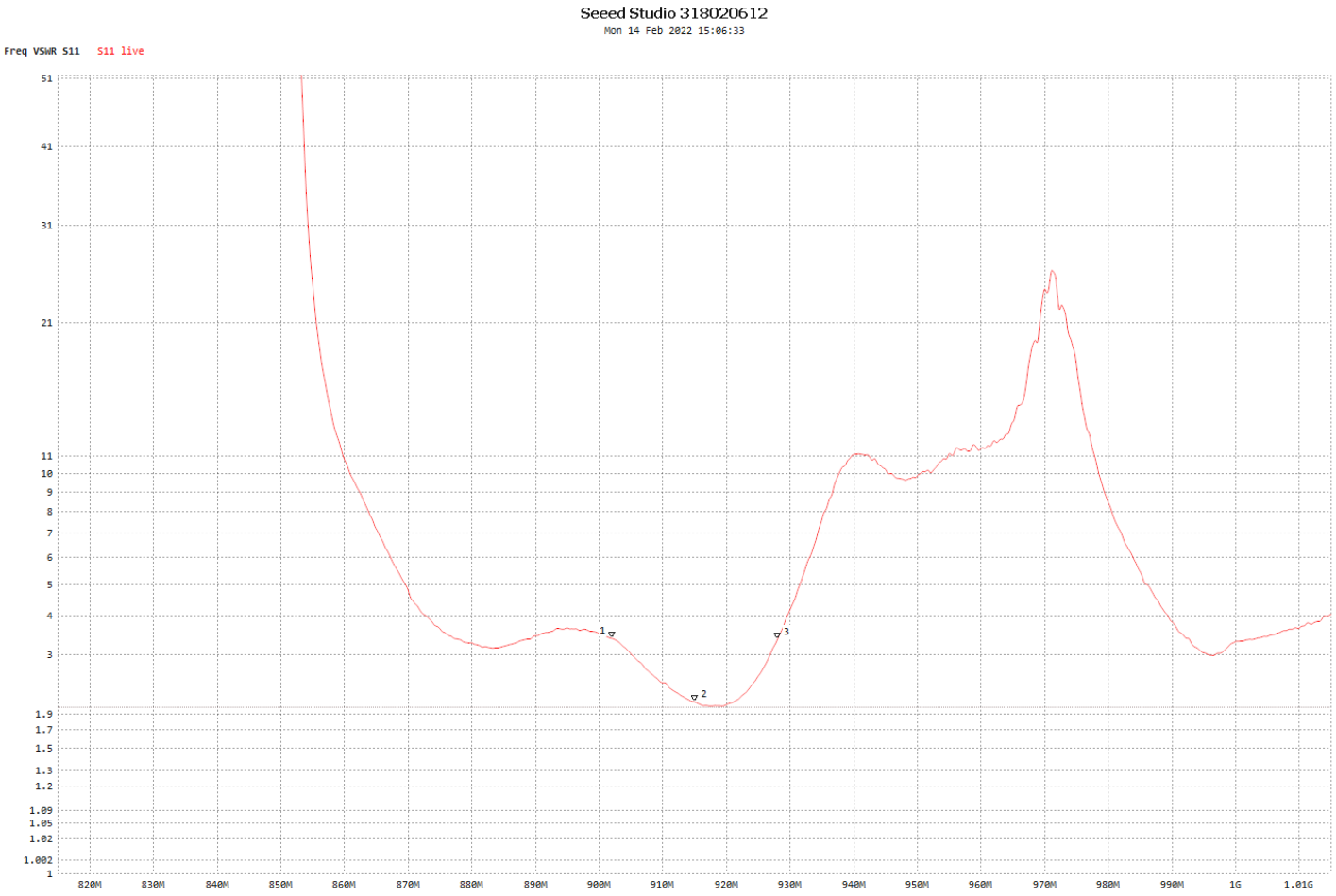
Test Results

VSWR Measurements

902MHz (Marker 1)	3.393 : 1	915MHz (Marker 2)	2.088 : 1	928MHz (Marker 3)	3.347 : 1



Notes: Since there's no published datasheet for this antenna I can't say whether the abysmal SWR plot is within manufacturer specification or not. This antenna is offered by Seeed Studio as a higher gain antenna for the helium network, but at a 3.394 : 1 SWR would exhibit 5.275dB of return loss and 1.529 dB of mismatch loss (making their claimed 5dBi gain impossible.)

If used in the 860-870MHz range where the VSWR is > 8 : 1 it would surely cause equipment damage.

Tests Performed By	Ric Letson, NB2E (RicInNewMexico) Github: https://github.com/RicInNewMexico
Tests Performed On	14 February 2022