

\$50 Antenna Analyzer

Dan W9STS

Needs

- I wanted an Antenna Analyzer
- Did not want to spend \$300+ for one
- What did I need
 - Small
 - Low cost
 - Battery powered
 - Work with or without a computer
 - Graphing would be Great!
 - SWR only would be ok

Research

- Not available of the shelf
- Some were very expensive



Research (Cont)

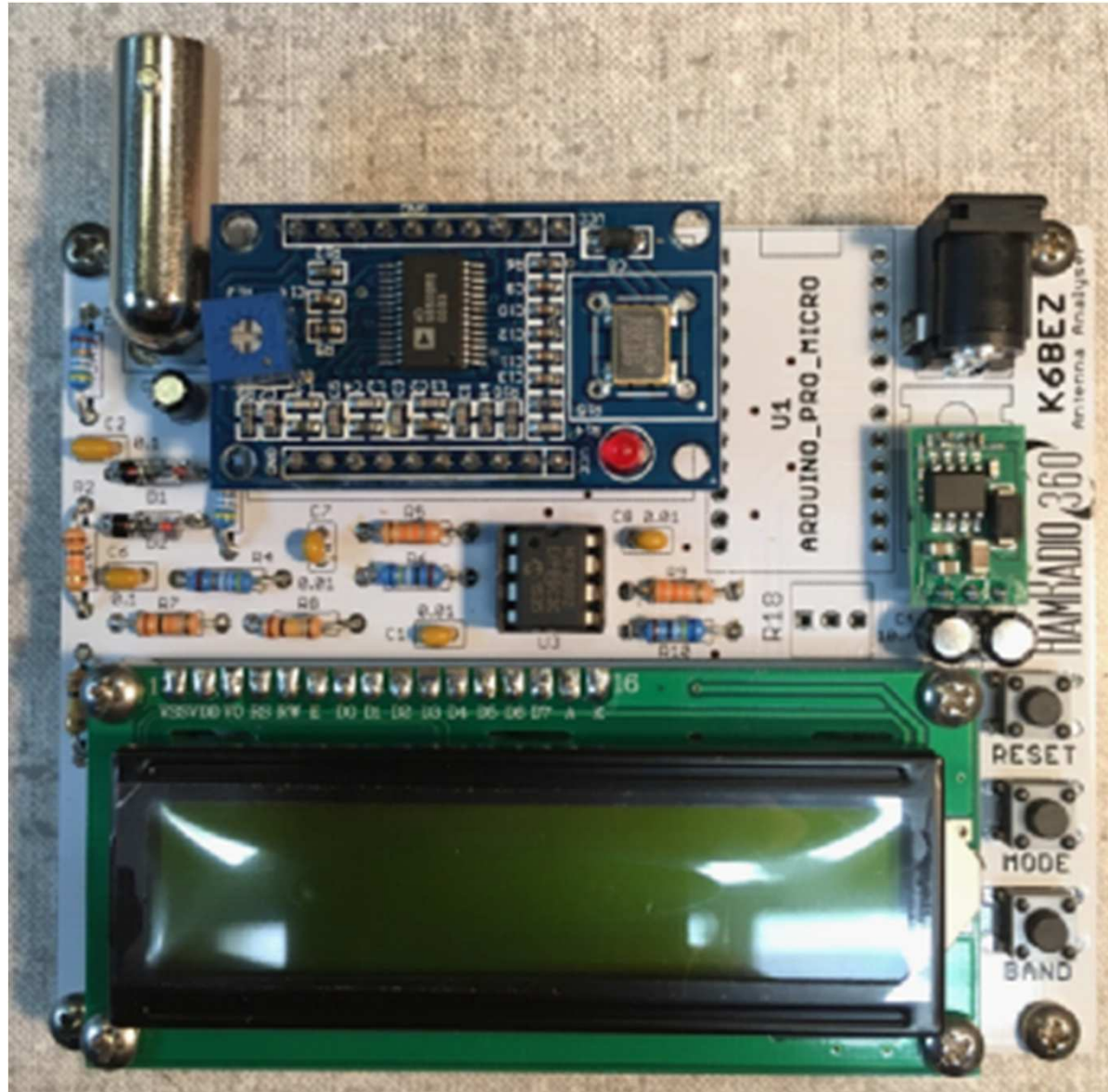
- Project by Beriks (K6BEZ)
 - Looked interesting
 - NO PCB and not well thought out
 - Final project used a PIC not Arduino



At last

- Ham Radio Podcast spawned the Workbench Podcast
- <http://hamradio360.com/>
- <http://hamradio360.com/index.php/workbench/>
- <http://www.360workbench.com/>
- Cale K4CDN
- George KJ6VU and Jeremy KF7IJZ

The Project



The build

- The instructions were EXCELLENT
- Mostly fairly easy to solder
- Only one issue

The Stuff Needed

- PCB \$12.00



The Stuff Needed (more)

- Adriano, DDS and LCD display ~\$15.00

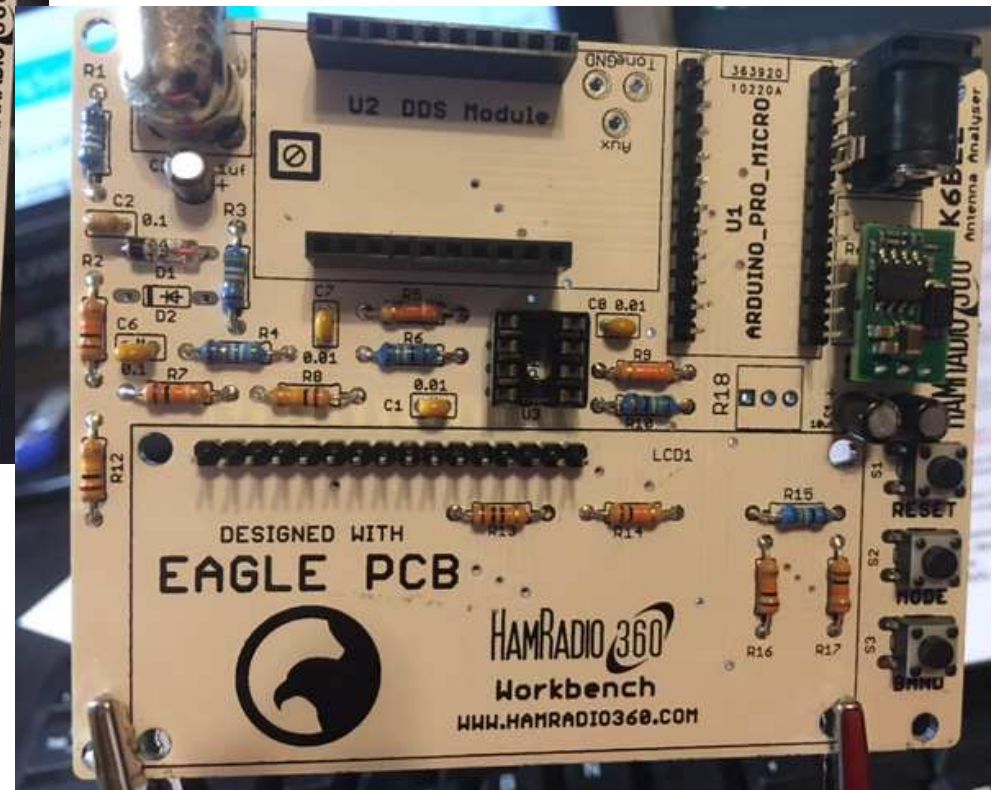
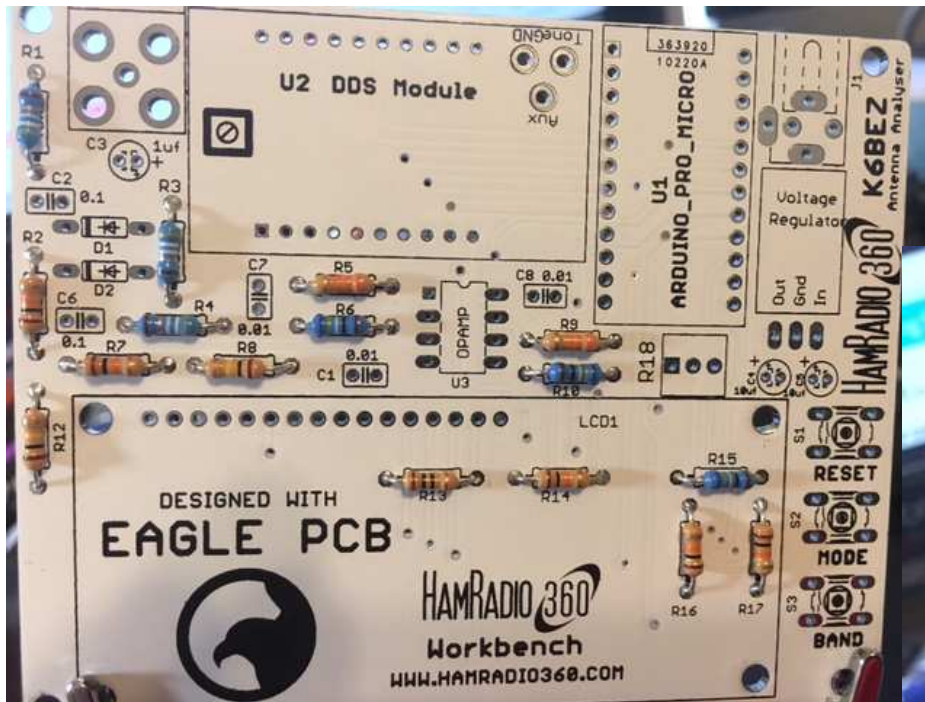


The Little stuff

- Resistors, Caps, IC and Power ~\$20:00

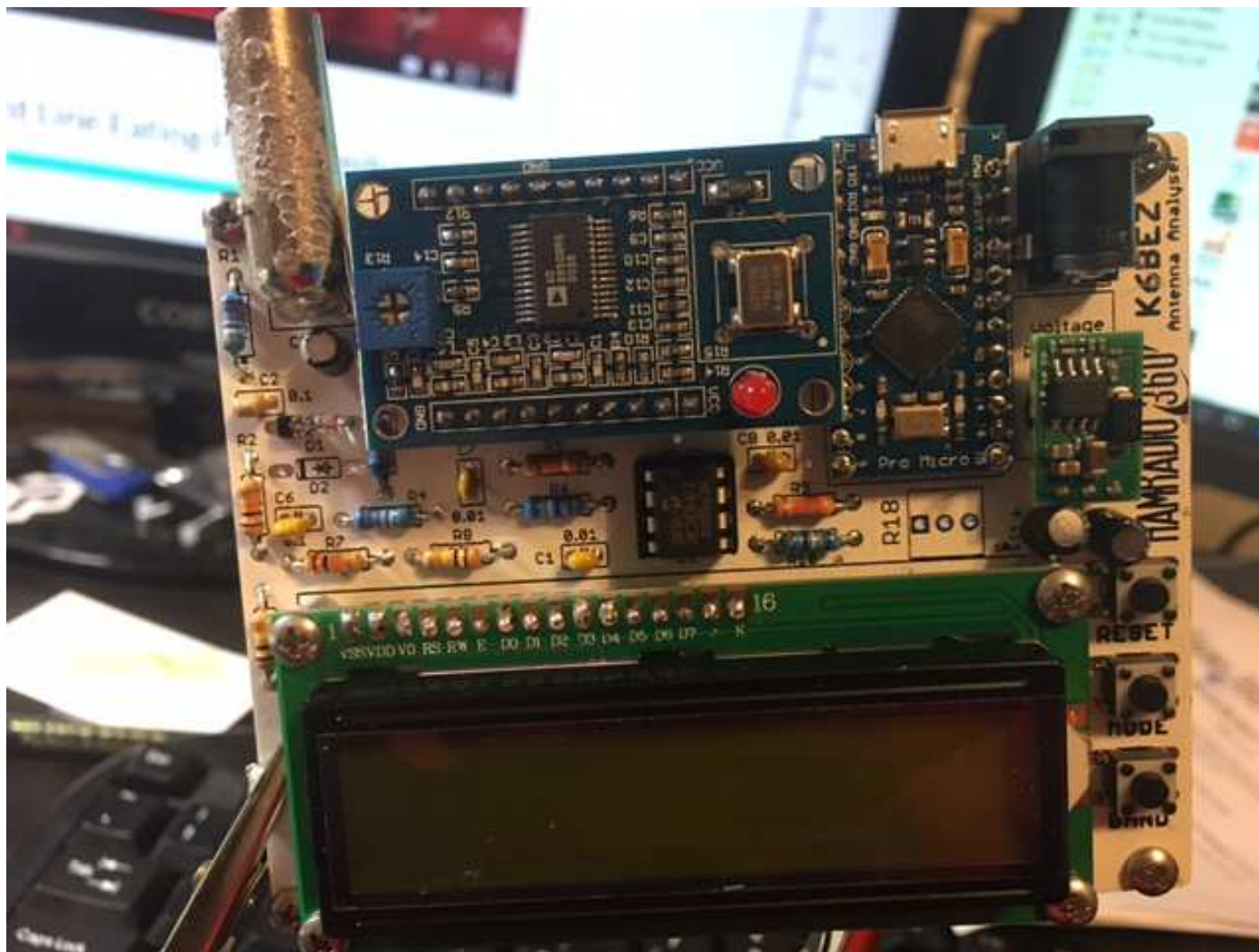


Putting it together



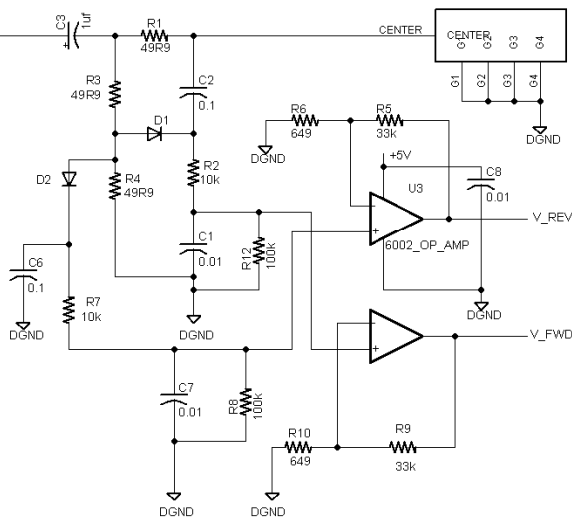
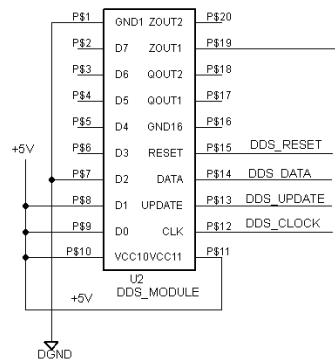
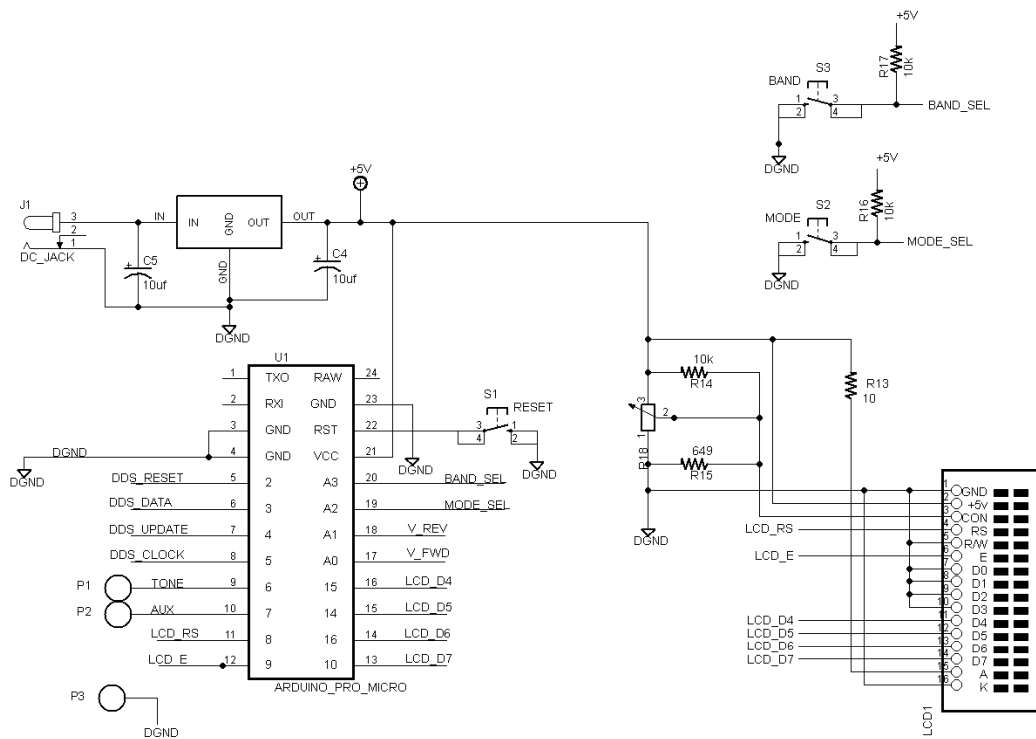
The Problem





It Lives





HamRadio 360

The Workbench Podcast

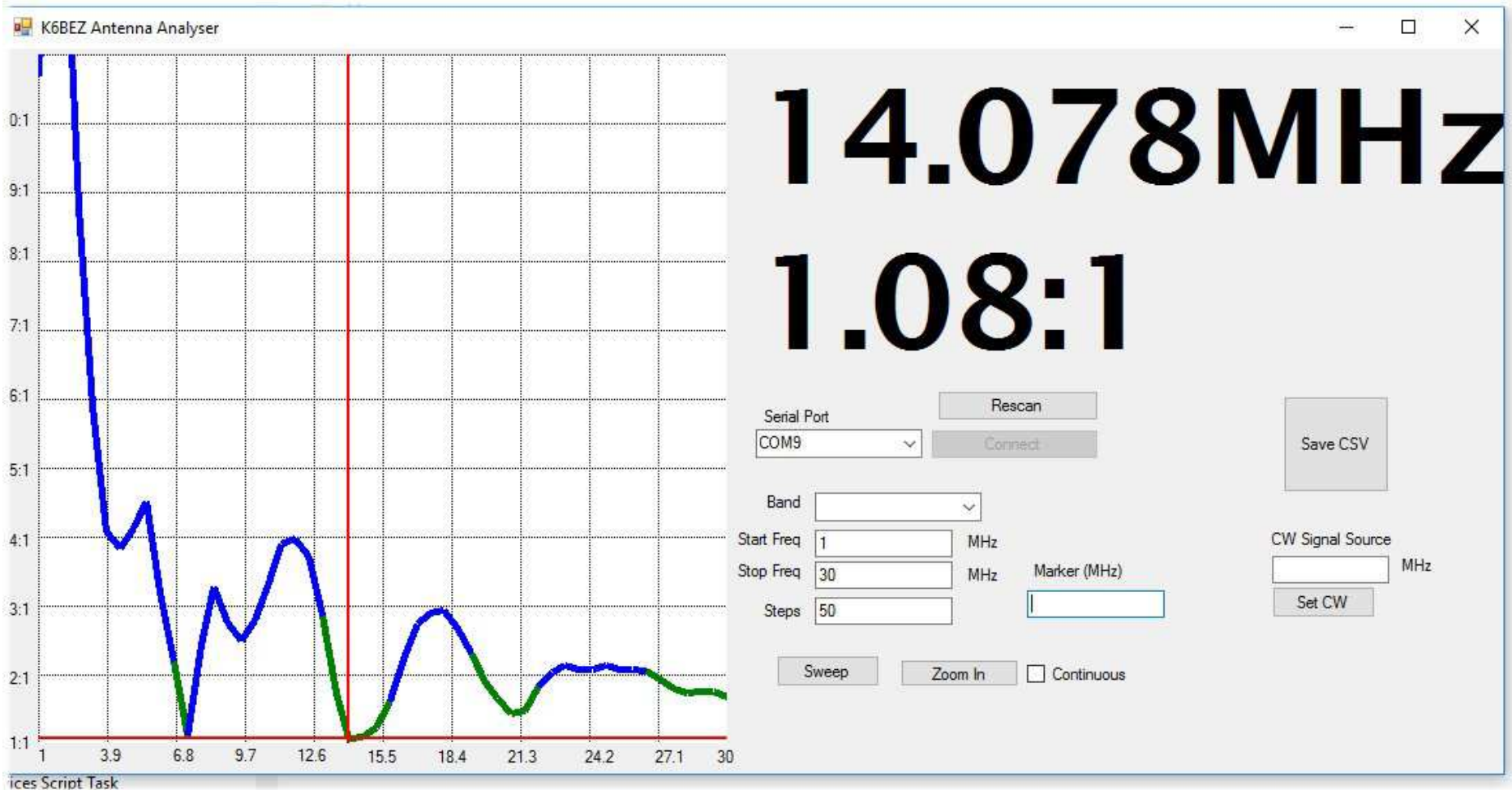
K6BEZ Antenna Analyzer

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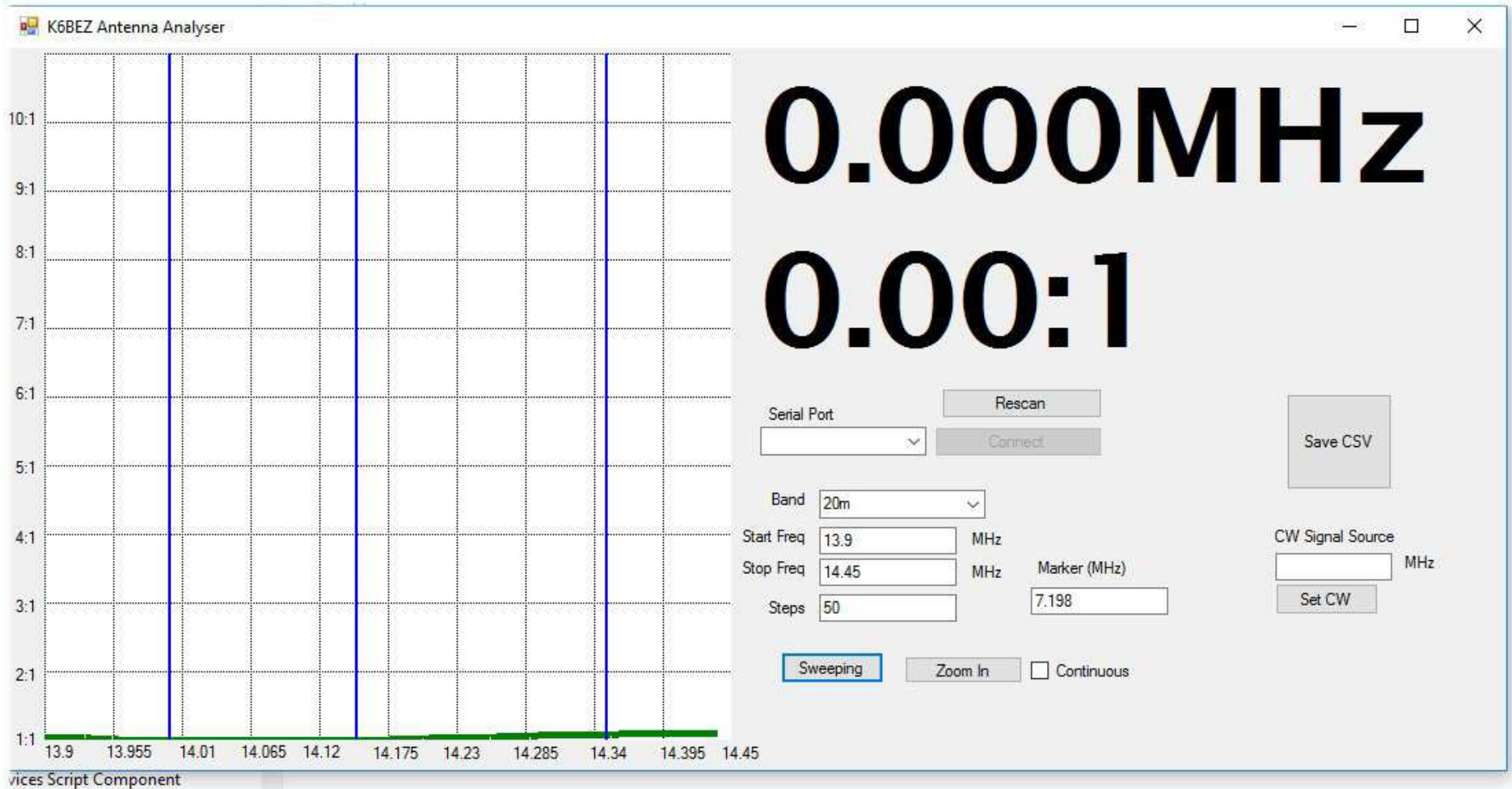
December 2016

PCB Version 7

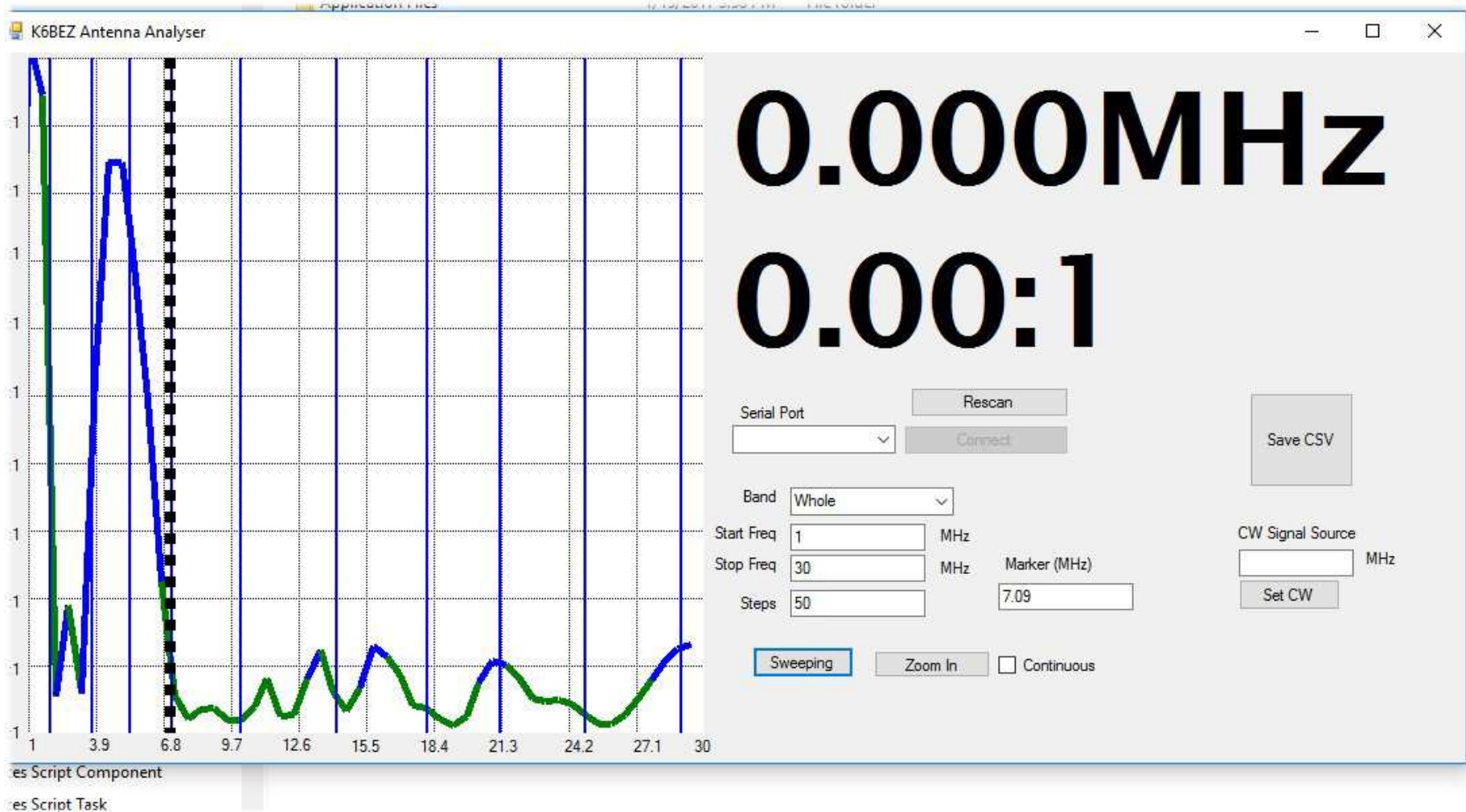
1 to 30 of Tri-band Dipole



20 On TriBand



1 to 30 on 65' Long Wire



Links

- The build page <http://www.360workbench.com/>
- The Workbench home page
<http://hamradio360.com/index.php/workbench/>
- HamRadio 360 home page
<http://hamradio360.com/>

- Time for a live demo