

2018/02/06: Tuesday

Trying to tune the seed plasma system to a low frequency.

Either 15MHz ($= \frac{27\text{MHz}}{\sqrt{2}}$) or $\#$ 13.56MHz ($= \frac{27\text{MHz}}{2}$)

However, between 22MHz and 28MHz, the system transmits significantly less power. (Hence, 24D is on standby)

Even into a dummy load @ 50 Ω . Really? Bird RF meter.

There was a 25MHz high-pass filter. Let's find. Between SRS & amp.

Now next filter @ 20MHz. Good. 0.08V on SRS \rightarrow 30W in Bird. Disconnect dummy load into RF box.

Chris's breakfast was able to produce a plasma but not able to get a good match at 21MHz. Impedance analyzer time.

Got a good match w/o plasma w/ impedance analyzer at 15MHz.

Trying to tune with plasma. It's noisy on the scale of 50 μ s.

L2 connect up to max meters + amplifier. Pass in \ll is 2.5mton

Ok, got it to 0.25mton in \ll , 13A into L2, match is acceptable.