

2020/10/27: Tuesday

SAD1, SN 27058, in cc radial scan mount starting 0 divs

SAD3, SN 19777, in cc midpoint mount, ap5, mylar filter

C1: RMT pulse

C2: SAD3 SCAB

H₂ gas

C3: SAD1 SCAB

C4: SAD gate signal

9:30AM ~~02,03~~ (03,04) Seed plasma. SAD3: 4^c/s
SAD1: 2^c/s

10:06AM: RMT seg.ms. No LN₂. 5 ms pulses. (05,06)
SAD3: 10^c/s SAD1: Pickup. It's only 20kV.

10:16AM 4,000^c/s (07,08) 37kV. Could be wall? Certainly strong.
This is only 150A L⁻², by the way. Whoops! Contaminated with
next condition

10:21AM Chrs re-tuned & power went up. (09,10) 7,000^c/s

10:42AM (11,12) Gas puff at new pos. 4,500^c/s

10:45AM (13,14) Gas puff now less earlier. Decreased count rate! 3,500^c/s



10:59AM: Gas puff reduced. Power increased. LN₂ starts. 4,000^c/s, CR still
drops upon gas puff. (15,16) Oh... big oxygen line?

Oxygen line appeared upon addition of LiH_2 .

Water removed from vacuum added to surface via deposition... Must be surface emission.

Although Brue estimates it's NOT FREEZING yet! What's happening?

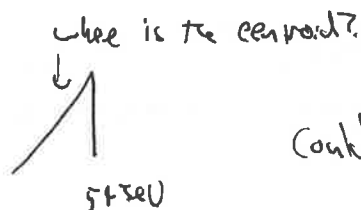
Maybe hotter? More k-shell electrons

11:08AM: Things are really changing now. 15,000's. (17, 18)

Huh... The peak isn't actually at the O k- α peak. It's lower-energy. Could it be the k-shell transmission phenomenon?

Yeah, gettoun 3, ~~54~~, has it at ch 58, while

17 has it at ch 54-55. k- α : 525eV k-shell: 543eV



11:14AM: (19, 20) more drift. O still visible. Takes ~7 min to get a Maxwellian fit.

12:21PM (21, 22) 45 kV, down from 60 kV. CR lower. 1,900's. Lines faint.

Spectrum also visible in SPD!!!

12:33PM (23, 24) 5ms pulse, 2ms longer. CR decreases when gas is pulsed.

12:45:ish: ARC. End of run.