

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1			Date:	8/7/2023														
2			Run description:	FRC/RMFO														
3			Base pressures: SEC IG (T)															
4			CC IG (T)															
5			FEC IG (T)	3.4e-7														
6			SEC Slow Baratron (T)	0.005														
7			CC Slow Baratron (T)	0.003														
8			RMF frequency & phase	1.8 71Hz														
9			Magnet configuration & PS	4x8 + 8x4 coils; BB PS & 2 Magna powers inside 8; eight BN-covered FCs														
10			RMF system	SRS -> duty factor limiters -> AR100LM9 -> 8KD -> 200 kW home made														
11			Time	11:17 11:37														
12			Magnapower L-2 Coils I (A)	180	181													
13			Big Blue L-2 Coils I (A)	181	181													
14			Nozzle coils I (A)	100	100													
15			SEC IG (T)															
16			SEC Slow Baratron (T)	0.0012	0.0011													
17			CC IG (T)															
18			CC slow Baratron (T)	0.458	0.451													
19			FEC IG (T)															
20			FEC FB (T)															
21			Ta paddle voltage															
22			Main valve	C														
23			Navigator valve	0														
24			End turbo valve	0														
25			Gases/feed location/sccm	H ₂ /SEC = 0.23 (m)														
26			PV-10 (V)	Ar/CC = 0.23														
27			Pulse A to/Δt															
28			B to/Δt															
29			CC Pressure (mT)	P _b														
30			(Fast Baratron)	P _a														
31			170 GHz dia (mV)/IM freq															
32			Glassman High Voltage (kV)	16 kV														
33			RMFo system main SRS	1.56														
34			Pulse width (ms)	6														
35			Time between pulses (s)	1														
36			Frequency: Center(MHz)/Span(KHz)	1.8016														
37			Phase °	60!														
38			P _a	50!														
39			P _f (kW)	50														
40			Δφ or % reflected	~ 1.9 kV														
41			FEC probe	2.88														
42			CC Probe	0.19														
43			Helicon Pf/Pr	0.26														
44			Helicon (SRS/mod)	~ 580 W														
45			Comments/changes:	for Δφ = π/2, n _e = 2.1e12 cm ⁻³ for 16-cm dia plasma														

$v_e = -2.2$ hel
 $= -1.9$ RMF