

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1			Date:	11/14/22														
2			Run description:	FRC/RMFO	1.005 MHz													
3			Base pressures: SEC IG (T)	-														
4			CC IG (T)	-														
5			FEC IG (T)	4.00-7 (5.9!!)														
6			SEC Slow Baratron (T)	1.0003														
7			CC Slow Baratron (T)	1.000														
8			RMF frequency & phase															
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	11:08	11:31	11:49	11:50			12:12	12:26	12:39	12:54					
12	Magnapower	L-2 Coils I (A)		154	151					150	150	150	150					
13	Big Blue	L-2 Coils I (A)		210	214					214	215	215	215					
14		Nozzle coils I (A)		102	101					100	100	100	100					
15		SEC IG (T)																
16		SEC Slow Baratron (T)		.0013	.0012					.0012	.0011	.0011						
17		CC IG (T)																
18		CC slow Baratron (T)		.303	.291					.257	.257	.257						
19		FEC IG (T)		2.5	2.8					2.8	2.8							
20		FEC FB (T)		2-6	2-6					2-6	2-6							
21		Ta paddle voltage																
22		Main valve																
23		Navigator valve																
24		End turbo valve																
25		Gases/feed location/sccm																
26		PV-10 (V)																
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														
33		RMFO system	main SRS															
34			Pulse width (ms)	8ms														
35			Time between pulses (s)	1/5														
36			Frequency: Center(MHz)/Span(KHz)	1807														
37			Phase °															
38			P _a															
39			P _f (kW)															
40			ΦM or % reflected															
41			FEC probe															
42			CC Probe															
43			Helicon Pf/Pr	1.09/1.253														
44			Helicon (SRS/mod)	0.1														
45			Comments/changes:	for Δφ = π/2, n _e = 2.1e12 cm ⁻³ for 16-cm dia plasma														

SLIGHTLY LESS
NOISE DURING RMF

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1			Date:	11/14/2-														
2			Run description:	FRC/RMFO														
3			Base pressures: SEC IG (T)															
4			CC IG (T)															
5			FEC IG (T)															
6			SEC Slow Baratron (T)															
7			CC Slow Baratron (T)															
8			RMF frequency & phase															
9			Magnet configuration & PS	4x8 + 8x4 coils; BB PS & 2 Magna powers inside 8; eight BN-covered FCs										Recentered 4-turn MC coil				
10			RMF system	SRS -> duty factor limiters -> AR100LM9 -> 8KD -> 200 kW home made										antennas: 2-turn; cable: RG-226, 60" long				
11			Time	1:37	143			230	250									
12	Magnapower	L-2 Coils I (A)	250			150		104	102									
13	Big Blue	L-2 Coils I (A)	215			215		220	210									
14		Nozzle coils I (A)	300			300		300	301									
15		SEC IG (T)																
16		SEC Slow Baratron (T)	1632			10030		0004	0006									
17		CC IG (T)																
18		CC slow Baratron (T)	1096			1095		1095										
19		FEC IG (T)	1.4			2.4		4.4	4.2									
20		FEC FB (T)	2.4			2.5		2.6	2.6									
21		Ta paddle voltage																
22		Main valve																
23		Navigator valve																
24		End turbo valve																
25		Gases/feed location/sccm	12.15															
26		PV-10 (V)																
27		Pulse A to/Δt																
28		B to/Δt																
29		CC Pressure (mT)	Pb															
30		(Fast Baratron)	Pa															
31	170 GHz	dia (mV)/IM freq																
32	Glassman	High Voltage (kV)																
33	RMFO system	main SRS																
34		Pulse width (ms)																
35		Time between pulses (s)																
36		Frequency: Center(MHz)/Span(KHz)																
37		Phase °																
38		Pa																
39		Pf (kW)																
40		OM or % reflected																
41		FEC probe																
42		CC Probe																
43		Helicon Pf/Pr	1.14/1.495					1.16/1.495										
44		Helicon (SRS/mod)	.10															
45		Comments/changes:	for Δφ = π/2, ne = 2.1e12 cm-3 for 16-cm dia plasma															
																	sheet	of