

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R						
1			Date:	12/5/11 - pickup																				
2			Run description:	FRC/RMFO																				
3			Base pressures: SEC IG (T)	12/5/11																				
4			CC IG (T)	/																				
5			FEC IG (T)	/																				
6			SEC Baratron (T)	.0082																				
7			CC Baratron (T)	.002																				
8			Antennas/delay lines	2-turn, RG-217, 15" long																				
9			RMF frequency & phase																					
10			Magnet configuration & PS	4x8 + 8x4 coils; BB PS; eight BN-covered FCs Recentered 4-turn MC coil																				
11			RMF system	SRS-> duty factor limiter -> AR100LM9 -> 8KD -> 200 kW home made																				
12			Wall Time	~1:29																				
13	B=1*0.72	L-2 Coils I (A)		No idea what by																				
14		Nozzle coils I (A)		Foster half x2																				
15		SEC IG (T)		CC																				
16		SEC Slow Baratron (T)		SRS V <sub>S</sub> V <sub>R</sub> ZCZ ~Pa																				
17		CC IG (T)		und und und																				
18		CC slow Baratron (T)		540	98.3	29.8	24	4.3												1.961	1.28	-17	-83	.660
19		FEC IG (T)		6.00	154.8	46.1	52	11												2.8	1.30	-22	1.017	.690
20		FEC FB (T)		6.50	205.8	60.9	82(1)	18.5												1.32	2.26	1.127	.722	
21		Ta paddle voltage		700	249.5	73.	92	27.												1.33	-28	1.20	.75	
22		Main valve		6.70	225.8	66.4	81													1.34	-39	1.32	.78	
23		Navigator valve		6.20	183.4	54.7	60	56) < 100												1.37	-39	1.36	.87	
24		End turbo valve		5.20	123.0	32.5	26													1.40	-41	1.37	.890	
25		Gases/feed location/sccm																						
26		PV-10 (V)																						
27		Pulse A to/Δt																						
28		B to/Δt																						
29		C to/Δt																						
30		Diagnostics LeCroy time																						
31		CC Pressure (mT)	P <sub>b</sub>																					
32			P <sub>a</sub>																					
33	170 GHz	dia (mV)/IM freq																						
34	Glassman	High Voltage (kV)																						
35	RMFO system	main SRS																						
36		Pulse width(ms)/s between pulses																						
37		Frequency: Center(MHz)/Span(KHz)																						
38		Phase °																						
39		P <sub>a</sub>																						
40		P <sub>f</sub> /% refl																						
41		φ <sub>M</sub>																						
42		FEC probe																						
43		CC Probe																						
44		Helicon P <sub>f</sub> /P <sub>r</sub>																						
45		Helicon (SRS/mod)																						
46	Comments/changes:			for Δφ = π/2, n <sub>e</sub> = 2.1e12 cm <sup>-3</sup> for 16-cm dia plasma																				

SRS only Navigator pump

Note long decay time in C3

not in C1  
BUT 90° phase shift  
C1 slow FC  
long decay time  
but C2 don't

Miyin in helicon  
no wave -  
guided  
fix all the  
pickup  
(calibrated)

return to 4.310

2L-2 = 300

35

35A ↑

35A

A

13/1%

0.77 m1

to .575 m1

newly SK  
.630  
.660  
.690  
.722  
.75  
.78  
.87  
.890  
pickup  
Sater  
seger  
.90  
.930  
.960  
.990  
1.02