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13 cm DC w/ Filament Neutralizer Source Checkout

These data are representative of a 13 cm FC/FN internal mount source with divergent grids. Actual run data will vary with specific system conditions.
 These data are for general information purposes only. Testing was done with Argon.

Gas Flow Source/PBN	Gas Type	Chamber Pressure	Cathode	Discharge			Beam		Accel		Neutralizer		Probe	Beam Profile Data file
			Heater	Current	Voltage	Current	Voltage	Current	Voltage	Heater	Emission	Distance		
			[A]	[A]	[V]	[mA]	[V]	[mA]	[V]	[A]	[mA]	[cm]		
10.0	Ar	0.97	8.50	0.87	55					3.00	3	warm up 15 min		
12.0	Ar	1.1	8.22	0.83	55	100	100	5	500	3.96	125	beam envelope check		
12.0	Ar	1.1	9.11	1.79	55	200	100	10	700	4.40	250			
12.0	Ar	1.1	8.15	0.85	55	100	250	6	300	3.87	126			
12.0	Ar	1.1	9.06	1.82	55	200	250	11	500	4.41	250			
12.0	Ar	1.1	9.92	3.00	55	300	250	17	650	4.88	375			
12.0	Ar	1.1	8.10	0.80	55	100	500	5	150	3.84	125			
12.0	Ar	1.1	9.08	1.83	55	200	500	10	200	4.45	250			
12.0	Ar	1.1	9.90	2.97	55	300	500	16	400	4.93	375			
12.0	Ar	1.1	7.97	0.72	55	100	750	5	200	3.90	125			
12.0	Ar	1.1	8.93	1.62	55	200	750	10	200	4.52	251			
12.0	Ar	1.1	9.80	2.89	55	300	750	13	200	4.96	375			
12.0	Ar	1.1	10.30	3.70	55	350	750	16	250	5.11	436			
12.0	Ar	1.1	7.88	1.68	55	100	1000	4	200	3.83	125			
12.0	Ar	1.1	8.75	1.53	55	200	1000	9	200	4.49	250			
12.0	Ar	1.1	9.57	2.63	55	300	1000	13	200	4.96	375			
12.0	Ar	1.1	10.57	4.18	55	400	1000	18	250	5.30	500			
12.0	Ar	1.1	7.80	0.66	55	100	1250	4	200	3.80	125			
12.0	Ar	1.1	8.59	1.41	55	200	1250	8	200	4.48	250			
12.0	Ar	1.1	9.39	2.41	55	300	1250	12	200	4.95	377			
12.0	Ar	1.1	10.30	3.76	55	400	1250	17	250	5.31	500			
12.0	Ar	1.1	7.72	0.62	55	100	1500	4	200	3.81	125			
12.0	Ar	1.1	8.49	1.32	55	200	1500	8	250	4.50	250			
12.0	Ar	1.1	9.20	2.17	55	300	1500	13	300	4.94	375			
12.0	Ar	1.1	10.06	3.42	55	400	1500	17	300	5.31	500			
Total Time on source:			150	min.										