

date 2012-08-06

GAINS				
email in xBSM analysis folder		20111221		
raw gain	normlz	correct	use gain	
		0.9		
1	0.63	1.00	1.0000	0.63
2	0.71	1.13	0.9991	0.71
3	0.79	1.25	0.9982	0.79
4	0.89	1.41	0.9971	0.89
5	1.00	1.59	0.9958	1.00
6	1.12	1.78	0.9945	1.11
7	1.26	2.00	0.9929	1.25
8	1.41	2.24	0.9913	1.40
9	1.58	2.51	0.9894	1.56
10	1.78	2.83	0.9872	1.76
11	2.00	3.17	0.9847	1.97
12	2.24	3.56	0.9821	2.20
13	2.51	3.98	0.9791	2.46
14	2.82	4.48	0.9757	2.75
15	3.16	5.02	0.9720	3.07
16	2.55	4.05	0.9786	2.50
17	3.98	6.32	0.9630	3.83
18	4.47	7.10	0.9577	4.28
19	5.01	7.95	0.9519	4.77
20	5.62	8.92	0.9454	5.31
21	6.31	10.02	0.9381	5.92
22	7.08	11.24	0.9300	6.58
23	7.94	12.60	0.9211	7.31
24	8.91	14.14	0.9111	8.12
25	10.00	15.87	0.9000	9.00

can check gain setting at /nfs/cesr/online/instr/data/xbsm/cline/raw/#/RD*

	run	gain knob	gain value	current	horizontal aperture microns	area	area/current	normalized area/current (div by gain value)	average	filter ratio	optic ratio		
C	2.085 PH no filter	TASGAP=5.1	23634	20	5.31	0.67	500	1970	2940.30	553.38		1.000	
C			23656	15	3.07	0.77	500	1253	1627.27	529.82			
C			23661	15	3.07	0.59	500	925	1567.80	510.46	531.22	1.000	
C							500						
C	2.085 PH diamond	TASGAP=5.1	23633	20	5.31	0.74	500	1068	1443.24	271.63			
C			23657	15	3.07	0.70	500	615	878.57	286.05			
C			23660	15	3.07	0.61	500	508	832.79	271.15	276.27	0.520	1.000
C							500						
C	2.085 PH molybd	TASGAP=5.1	23658	15	3.07	0.67	500	62	92.54	30.13			
C			23659	25	9.00	0.65	500	136	209.23	23.25	26.69	0.050	1.000
C													
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C	2.085 FZP no filter		23635	12	2.20	0.57		5075	8903.51	4047.39	4047.39	1.000	7.619
C													
C	2.085 FZP diamond		23636	12	2.20	0.53		2935	5537.74	2517.37			
C			23637	12	2.20	0.33		2037	6172.73	2806.02	2661.70	0.658	9.634
C													
C	2.085 FZP molybd		23638	12	2.20	0.33		238	721.21	327.85			
C			23639	12	2.20	0.32		236	737.50	335.26			
C			23640	12	2.20	0.31		216	696.77	316.74	326.62	0.081	12.238
C													
C													
C	2.085 CA no filter		23641	8	1.40	0.95	1200	4183	4403.16	3150.32			
C			23648	8	1.40	0.64	1200	2919	4560.94	3263.20	3206.76	1.000	2.515
C													
C	2.085 CA diamond		23649	8	1.40	0.53	1200	1482	2796.23	2000.61			

CA	23749			50	2.52	5.76		0.00	#NUM!	#NUM!
PH	23665	333	0.824	50	2.52	18.00	1.67	33.07	27.74	27.74