

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 5933 - L2 Version 3
Chandra X-Ray Center

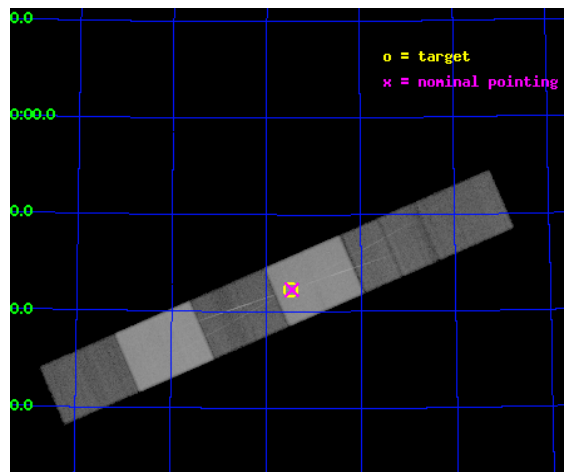
L2 Processing Date : Dec 26 2012

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1 Front

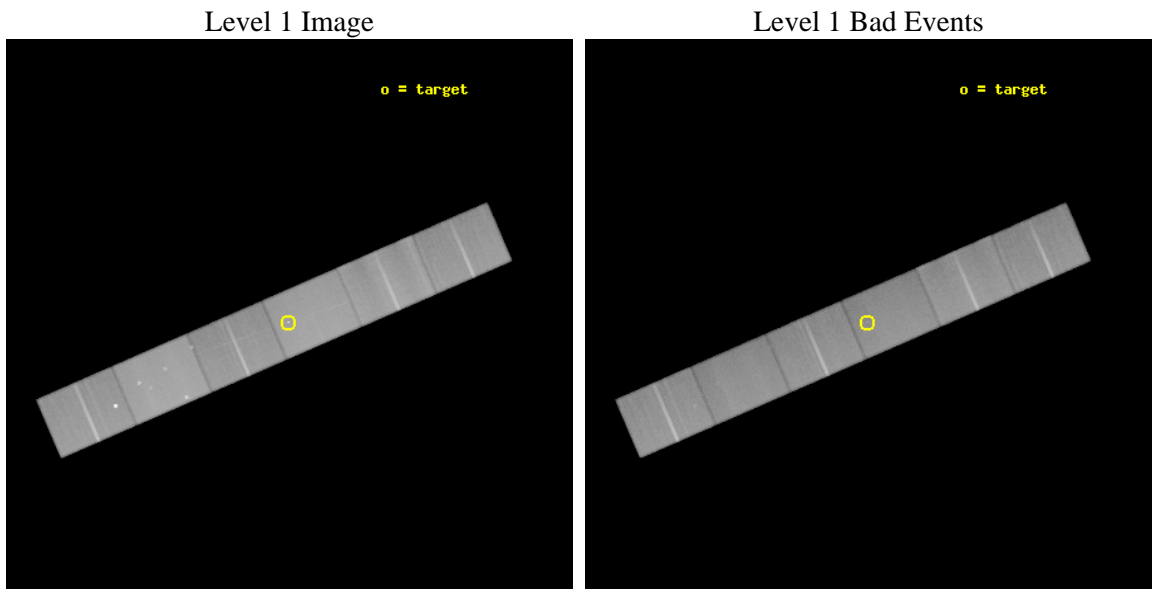
seq_num	600452	Sequence number
obs_id	5933	Observation id
title	Chandra HETG View of an ULX Associated with an SNR in Holmberg II	
observer	Dr. Gulab Dewangan	Principal investigator
object	Holmberg II X-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	124.870833	Observer's specified target RA [deg]
dec_targ	70.705444	Observer's specified target Dec [deg]
ra_nom	124.86473514845	Nominal RA [deg]
dec_nom	70.704456544066	Nominal Dec [deg]
roll_nom	336.56140185467	Nominal Roll [deg]
revision	3	Processing version of data
ontime	98555.0	Sum of GTIs [s]
livetime	96963.251267197	Livetime [s]
ontime4	98555.0	Sum of GTIs [s]
ontime5	98555.0	Sum of GTIs [s]
ontime6	98555.0	Sum of GTIs [s]
ontime7	98555.0	Sum of GTIs [s]
ontime8	98555.0	Sum of GTIs [s]
ontime9	98555.0	Sum of GTIs [s]
l2events	1003509	Number of level 2 events



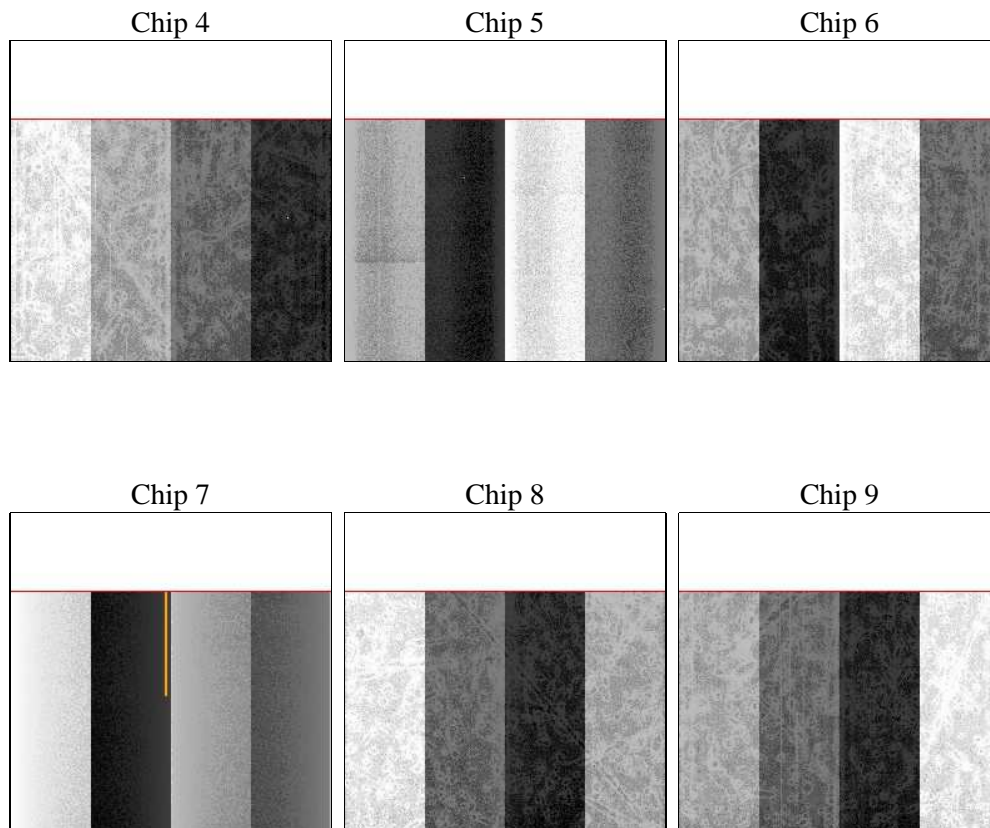
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	98511.109000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	98555.0	Sum of GTIs [s]
caldbver	4.5.5	 	ontime4	98555.0	Sum of GTIs [s]
date	2012-12-26T04:02:52	Date and time of file creation	ontime5	98555.0	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	98555.0	Sum of GTIs [s]
			ontime7	98555.0	Sum of GTIs [s]
			ontime8	98555.0	Sum of GTIs [s]
			ontime9	98555.0	Sum of GTIs [s]
			l1events	4418557	Number of level 1 events

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	705226	905764	611174	823011	772168	601214	grade 0 events	61572	44400	30449	31876	53059	30540
rejected events	599333	487581	535139	472389	601513	525680		8%	4%	4%	3%	6%	5%
rejected %	84%	53%	87%	57%	77%	87%	grade 1 events	619	1457	265	830	494	342
								0%	0%	0%	0%	0%	0%
							grade 2 events	16541	119290	15722	71210	37719	14882
								2%	13%	2%	8%	4%	2%
							grade 3 events	7854	19190	7634	32410	18275	7869
								1%	2%	1%	3%	2%	1%
							grade 4 events	7747	18527	7514	32070	17062	7720
								1%	2%	1%	3%	2%	1%
							grade 5 events	26428	70255	27395	78240	36610	29199
								3%	7%	4%	9%	4%	4%
							grade 6 events	12180	216779	14722	183068	44544	14525
								1%	23%	2%	22%	5%	2%
							grade 7 events	572285	415866	507473	393307	564405	496137
								81%	45%	83%	47%	73%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	124.782964	124.8647351484549	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	70.700964	70.70445654406552	Subarray start row	1	1
[deg] Pointing Roll	336.481958	336.5614018546745	Subarray row count	774	774
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	2.5
[mm] SIM translation stage pos	-187.132523	-187.1254020033014			
[mm] SIM translation stage offset	-3	-3.007120579706367			
[s] Observation start time (MET)	237038488.184000	237036966.99363			
Observation start date	2005-07-06T12:00:24	2005-07-06T11:36:06			
[s] Observation end time (MET)	237136999.184000	237137217.12322			
Observation end date	2005-07-07T15:22:15	2005-07-07T15:26:57			
Read mode	TIMED	TIMED			

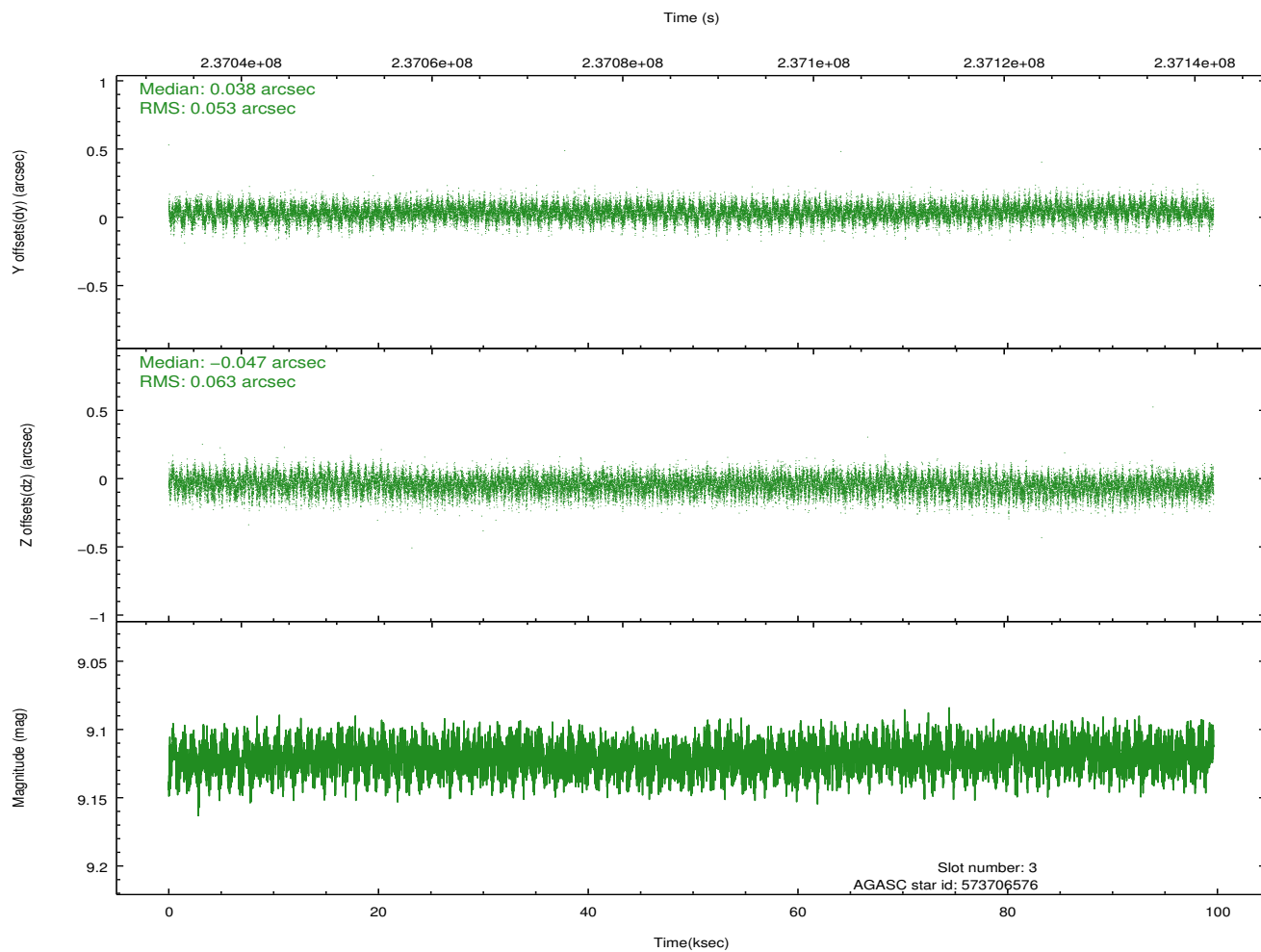
2.3 Aspect

Slot Statistics

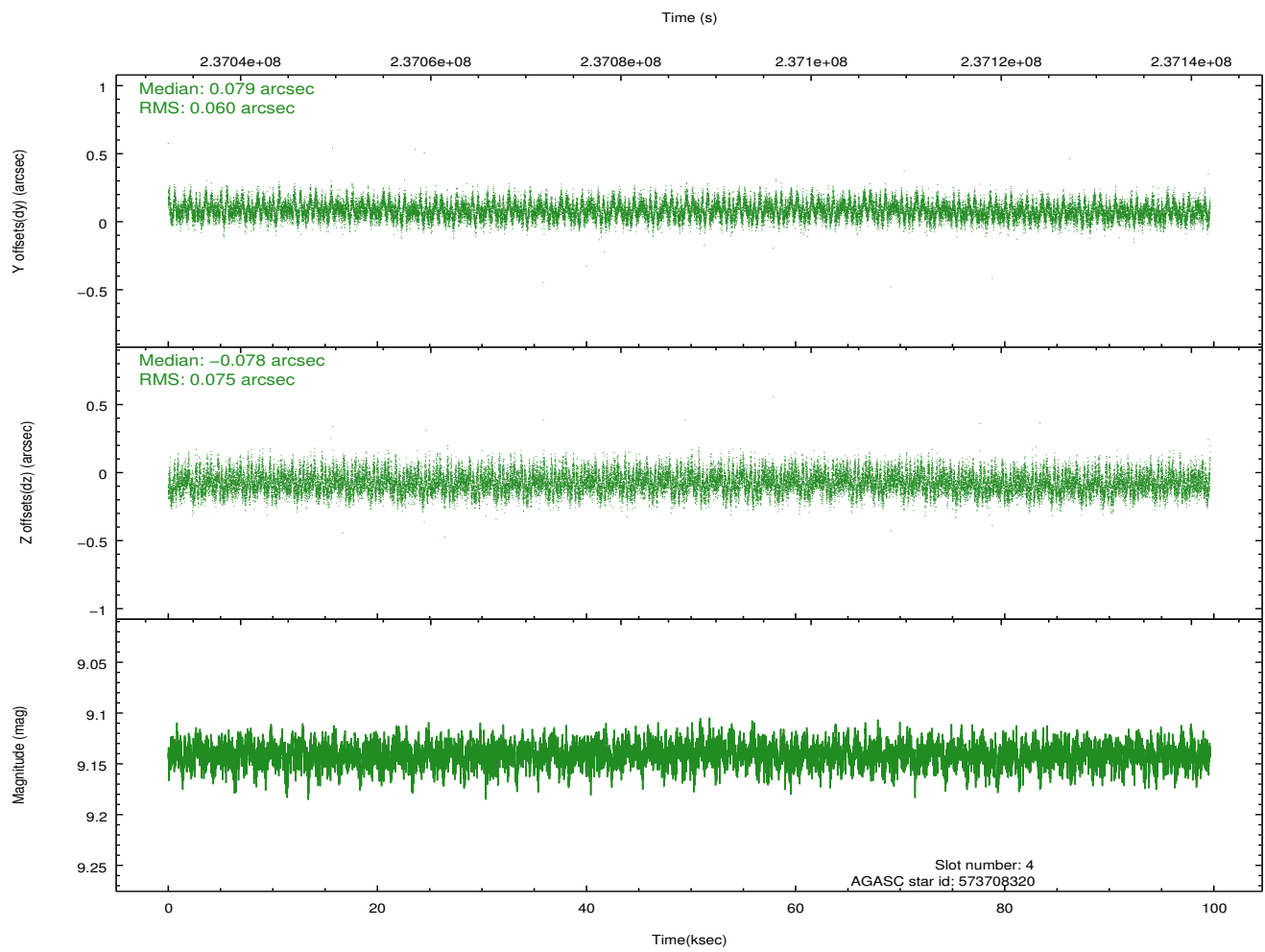
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	24303	-0.074	-0.072	0.016	0.027	0.000000	0.000000	-759.80	-1795.88
1	FID	ACIS-S-4	7.19	24302	0.128	0.055	0.018	0.025	0.000000	0.000000	2153.69	112.85
2	FID	ACIS-S-5	7.23	24303	-0.083	0.026	0.017	0.028	0.000000	0.000000	-1812.79	106.34
3	GUIDE	573706576	9.12	48579	0.038	-0.047	0.088	0.142	124.971812	70.209854	917.12	-1528.79
4	GUIDE	573708320	9.14	48564	0.079	-0.078	0.103	0.163	123.335431	70.465373	-1266.74	-1454.22
5	GUIDE	573717200	9.27	48577	0.041	0.021	0.101	0.158	126.642702	71.051410	1476.74	2054.67
6	GUIDE	573719824	8.77	48579	-0.030	0.006	0.082	0.135	124.187277	71.200735	-1352.66	1377.10
7	GUIDE	573723816	6.81	48605	-0.128	0.097	0.049	0.079	124.391876	70.177108	314.78	-1918.12

2.4 Star Slots

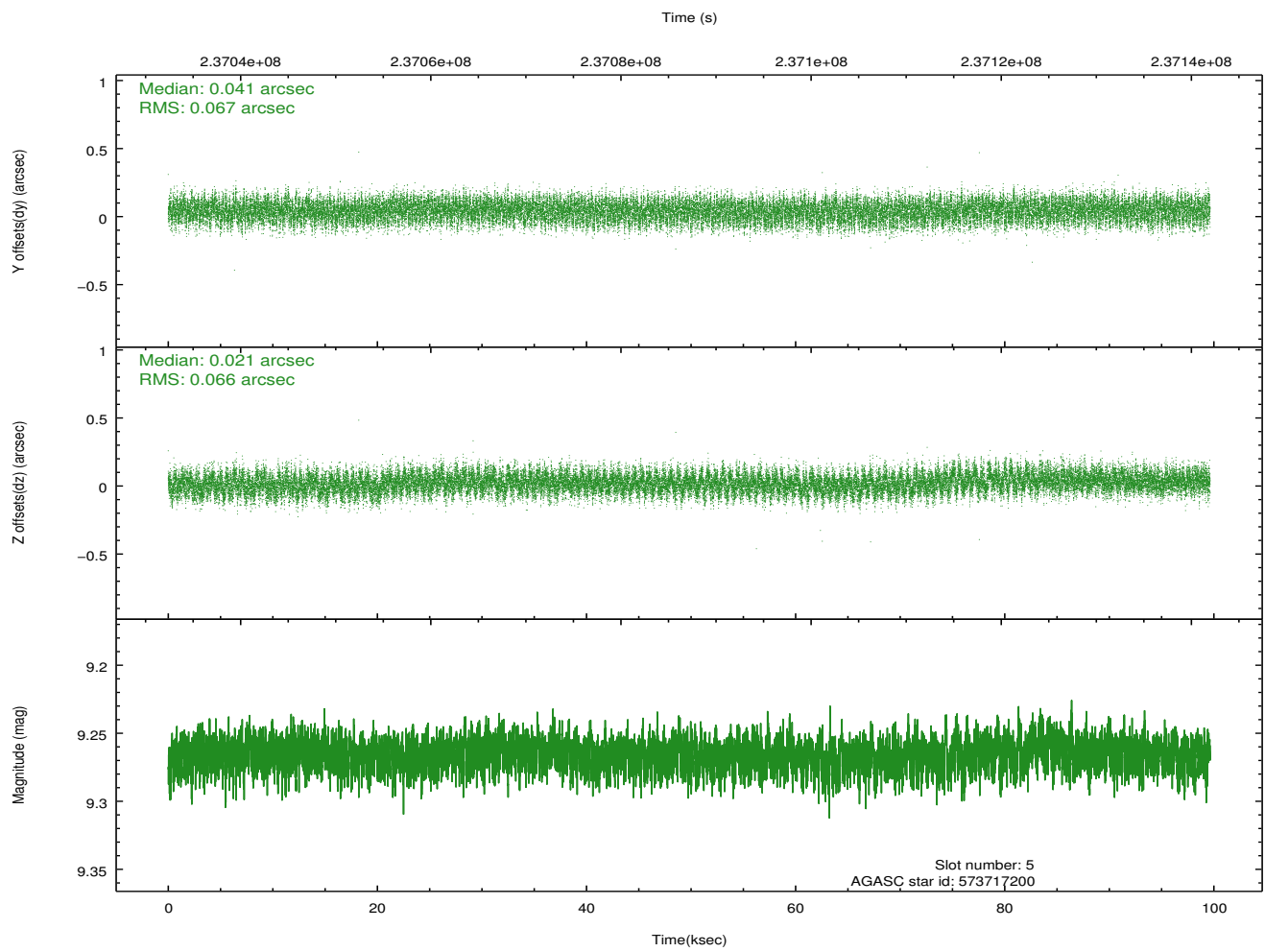
2.4.1 Slot 3



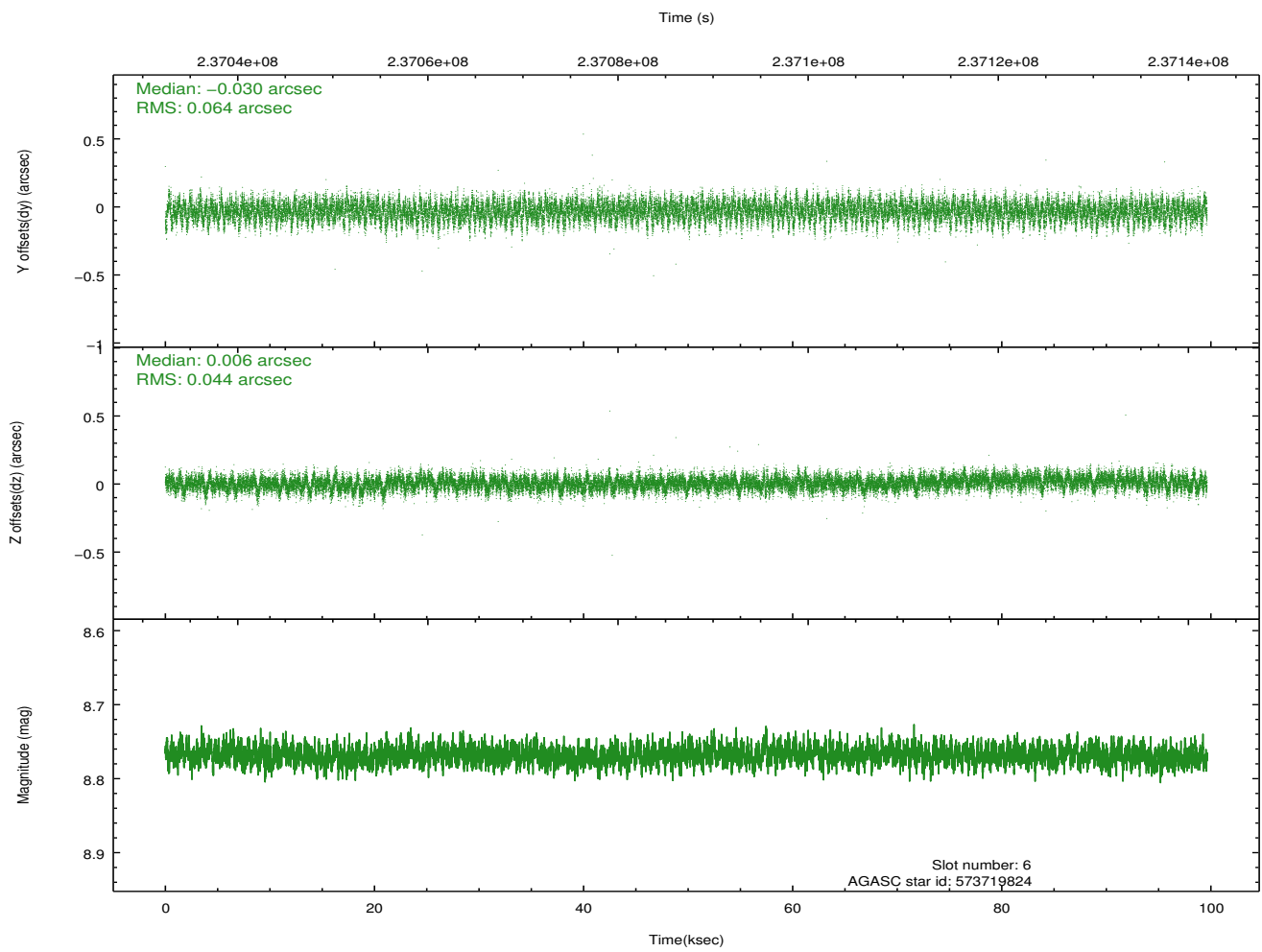
2.4.2 Slot 4



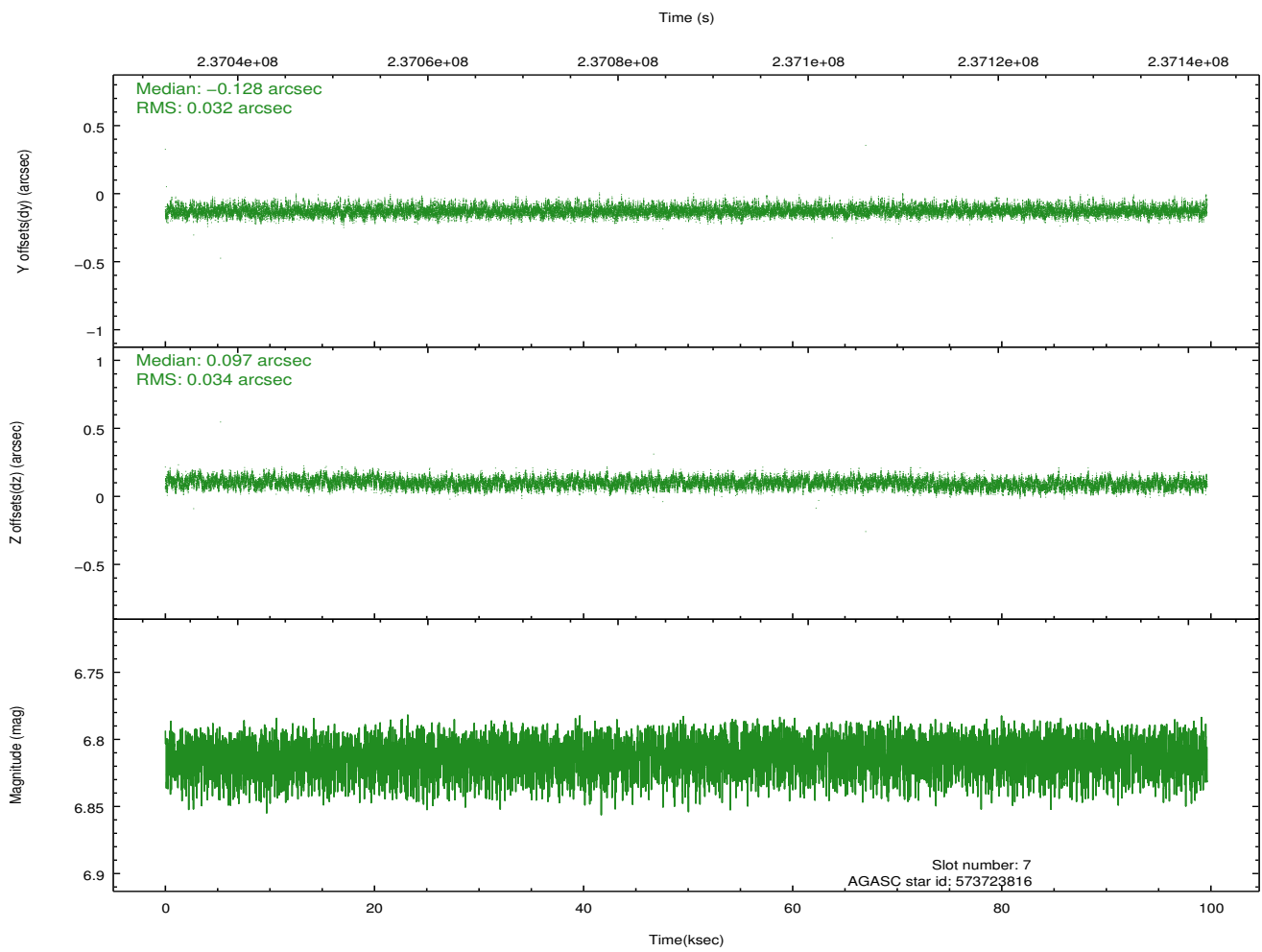
2.4.3 Slot 5



2.4.4 Slot 6

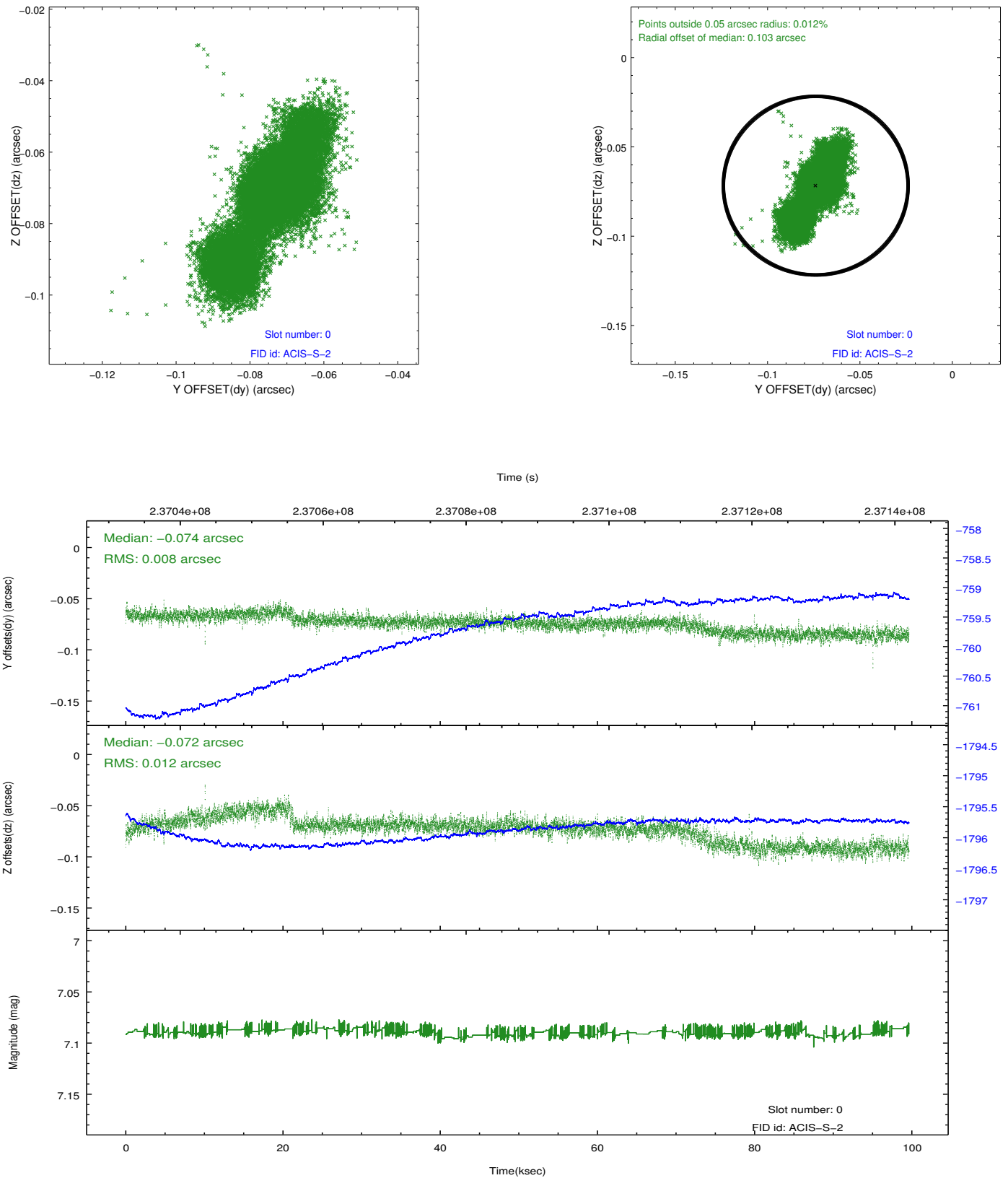


2.4.5 Slot 7

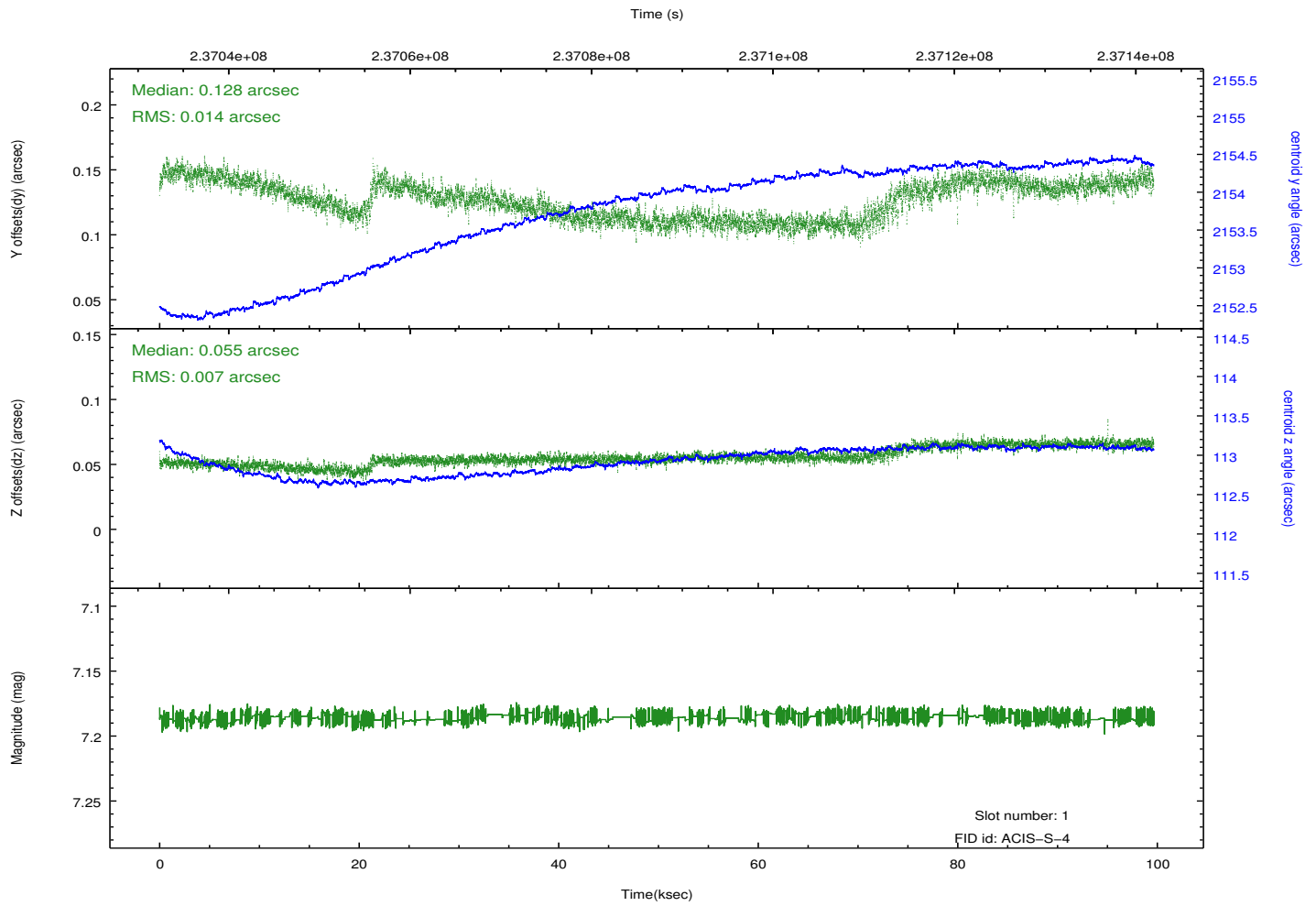
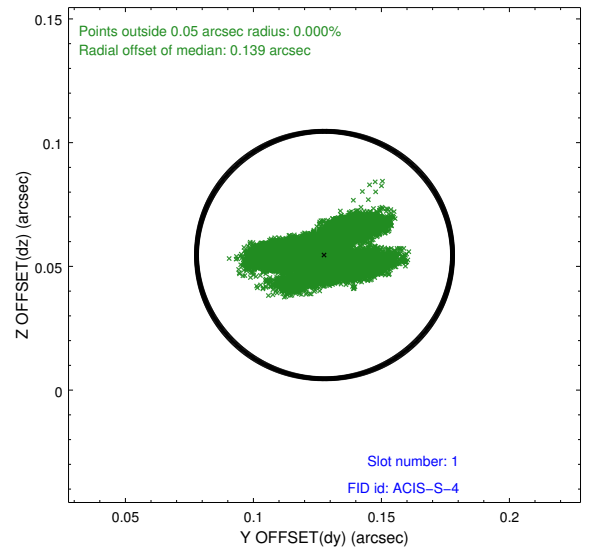
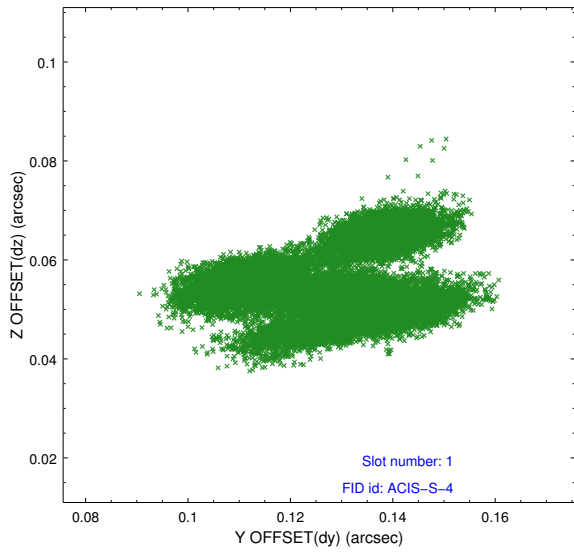


2.5 FID Slots

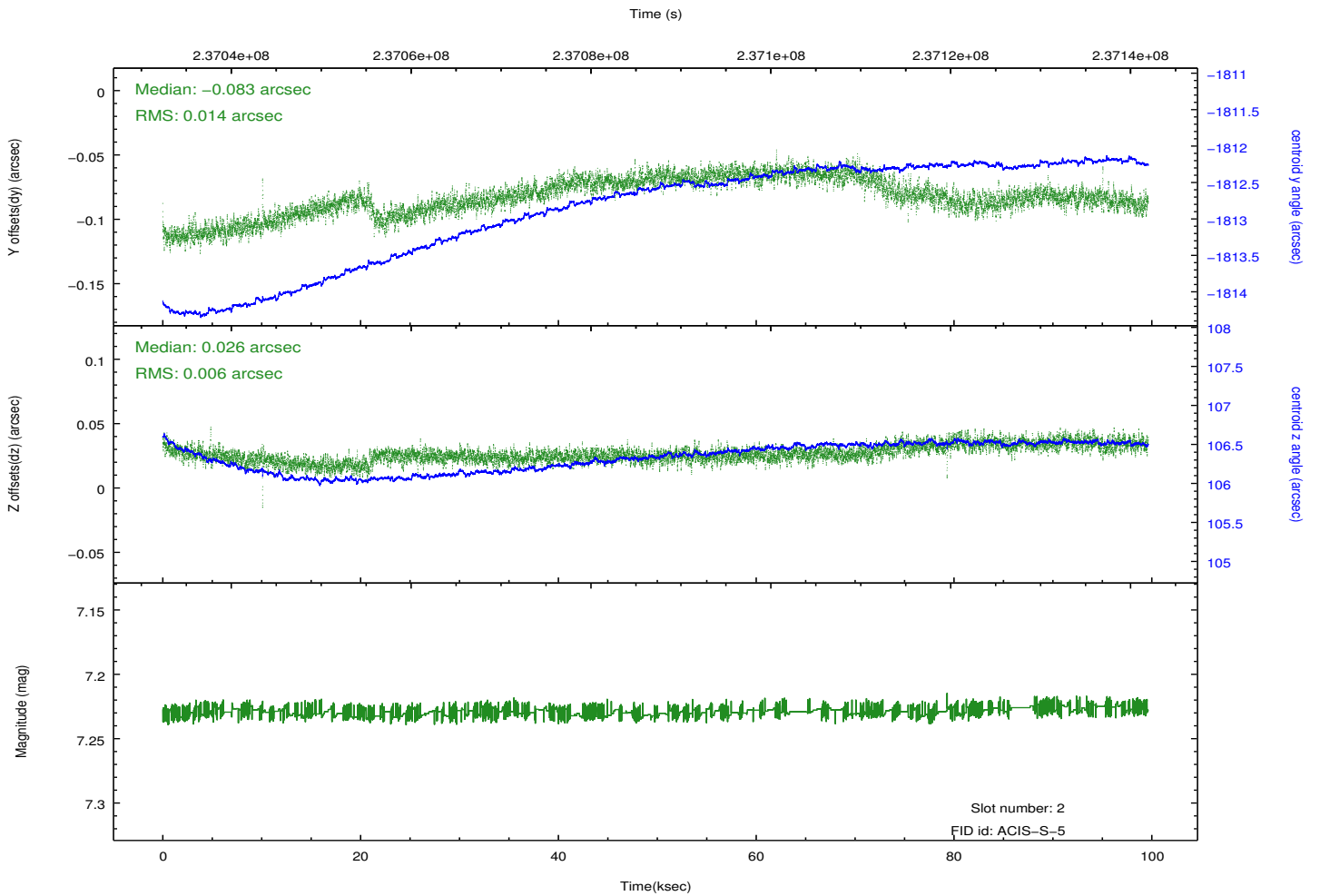
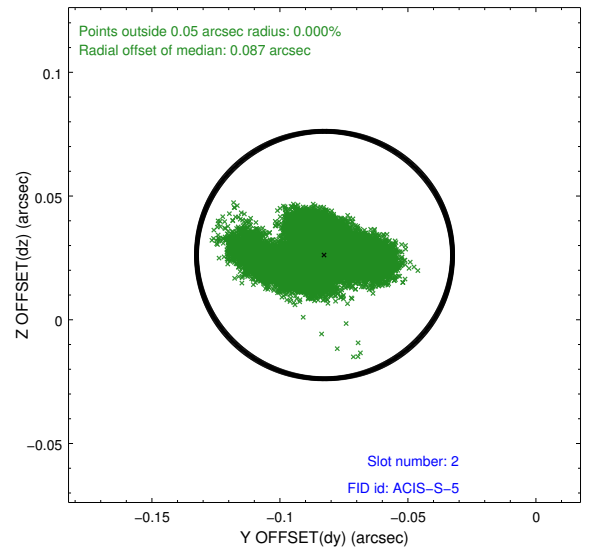
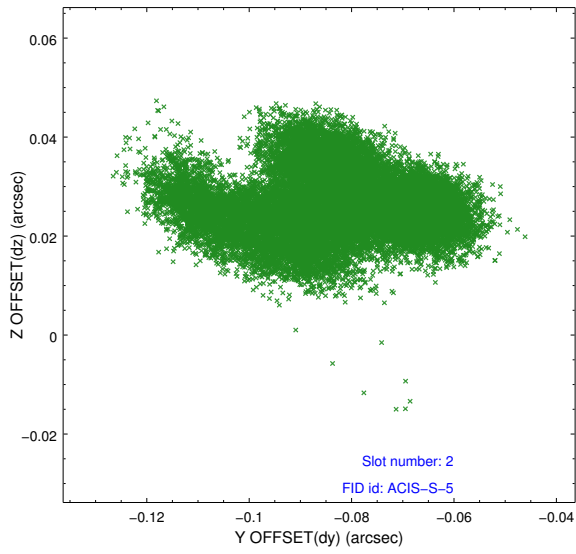
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

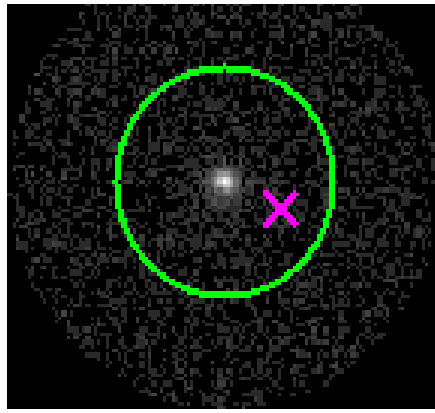


3 Gratings

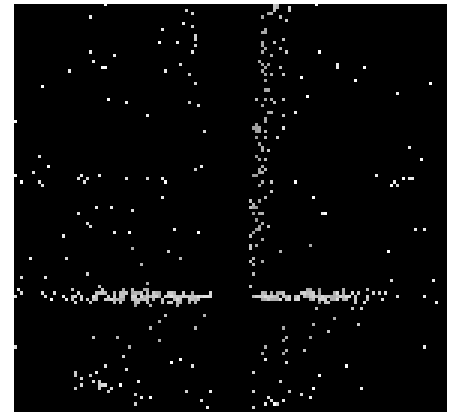
3.1 HEG Arm



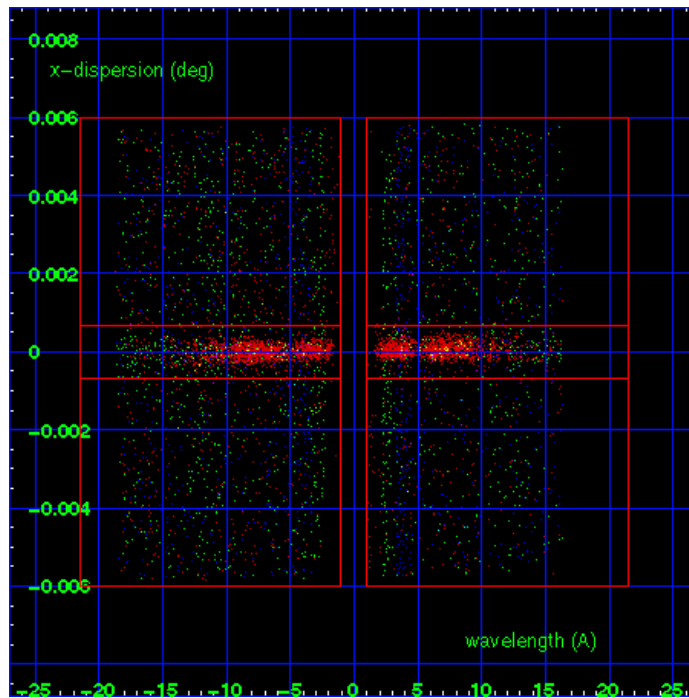
HEG Order Sort 123



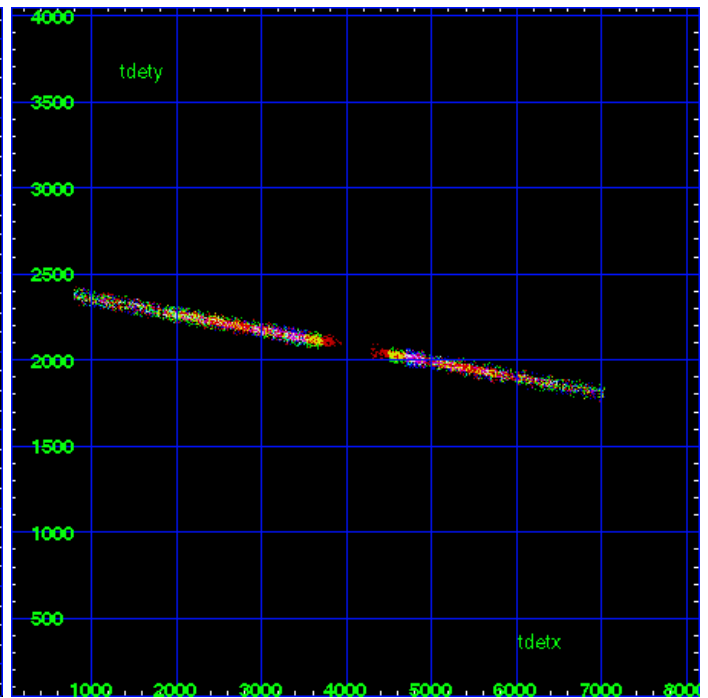
HEG Zero Order



HEG Order Sort ALL

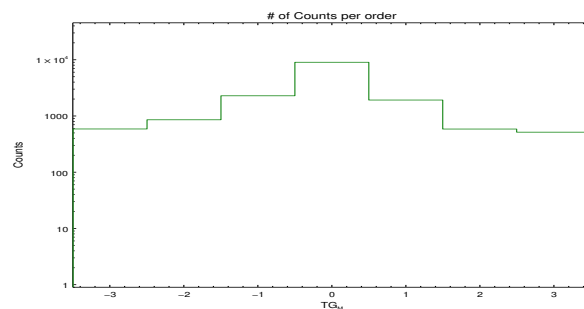


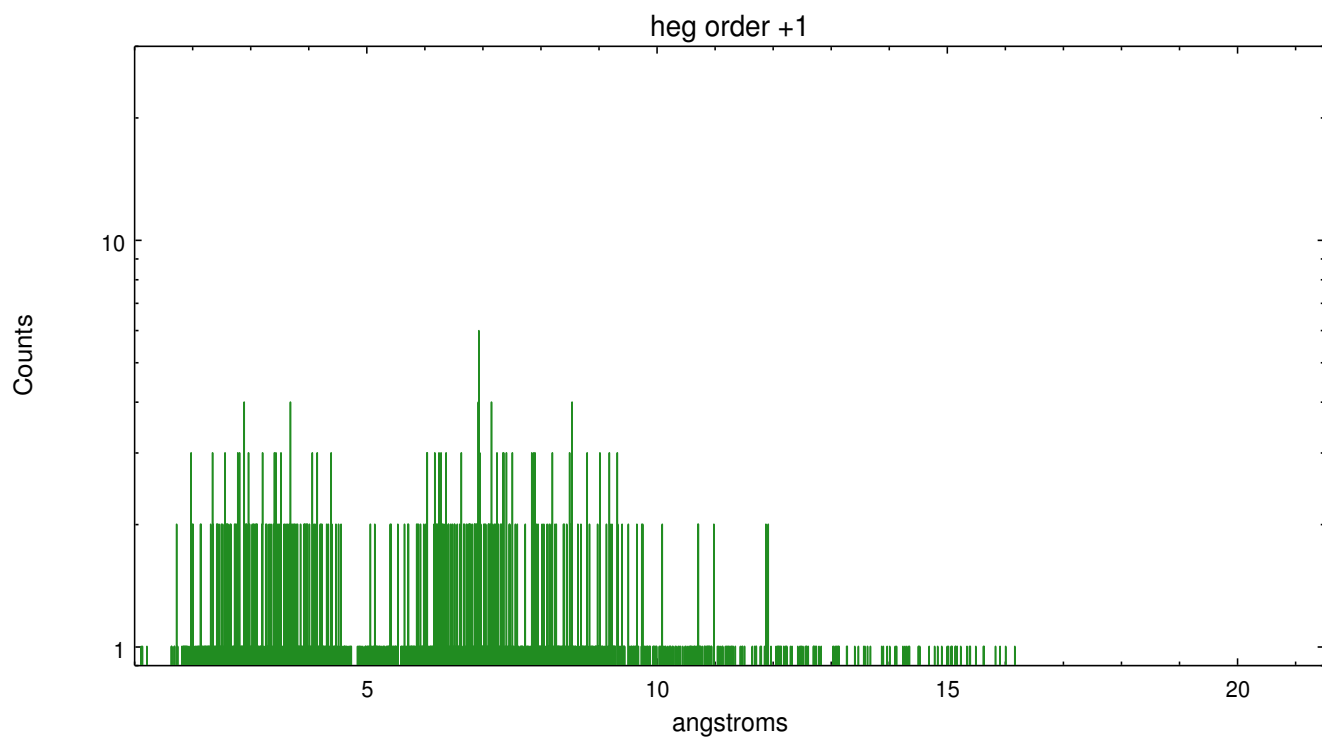
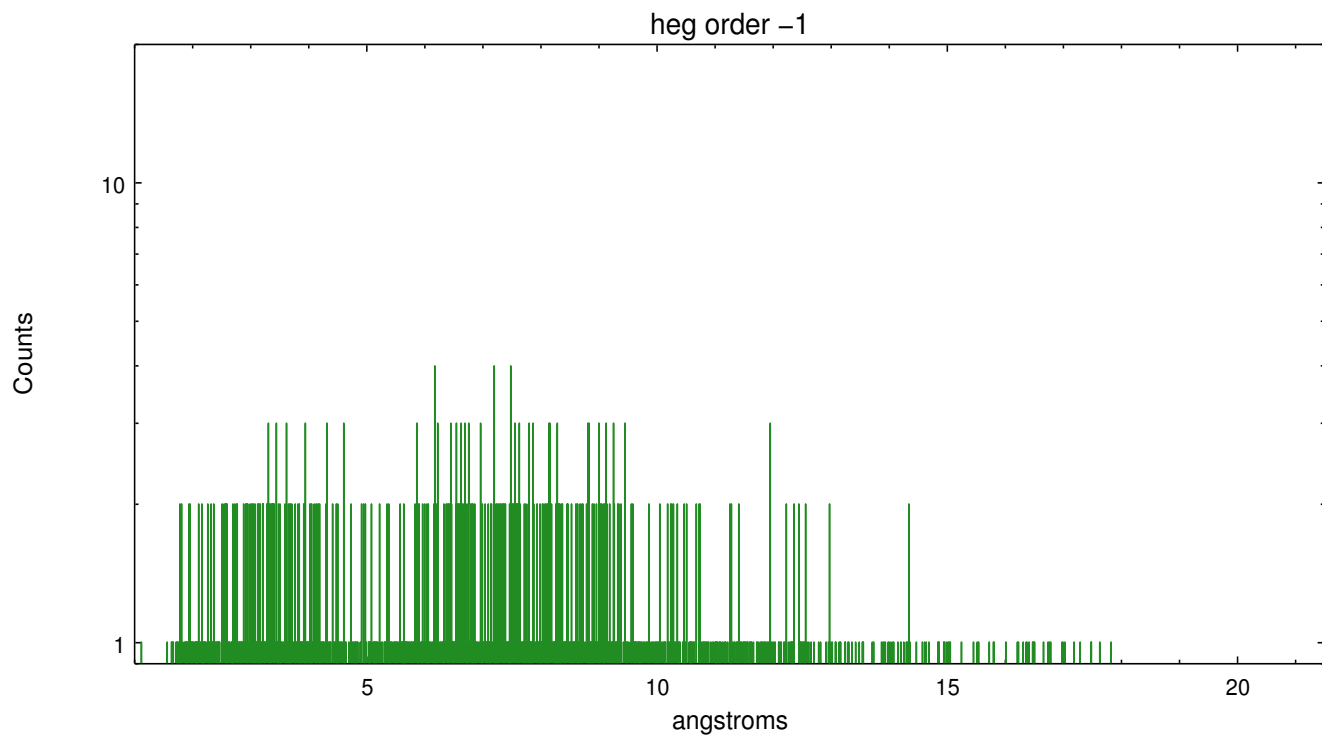
Spot Image HEG



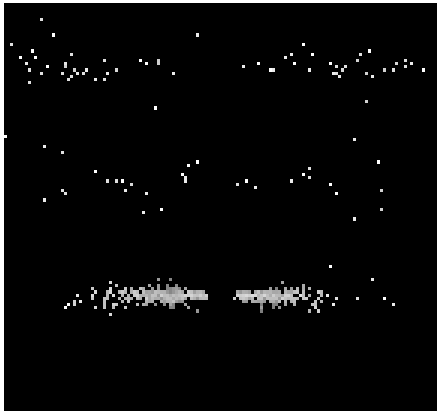
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	589	859	2298	9075	1929	587	516

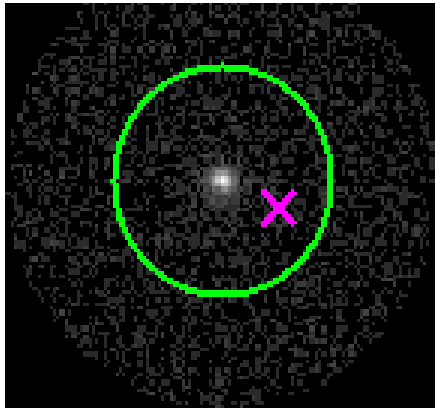




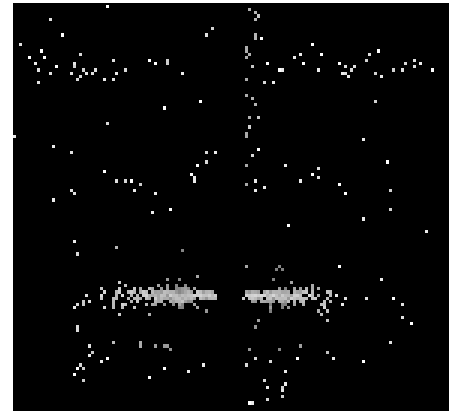
3.2 MEG Arm



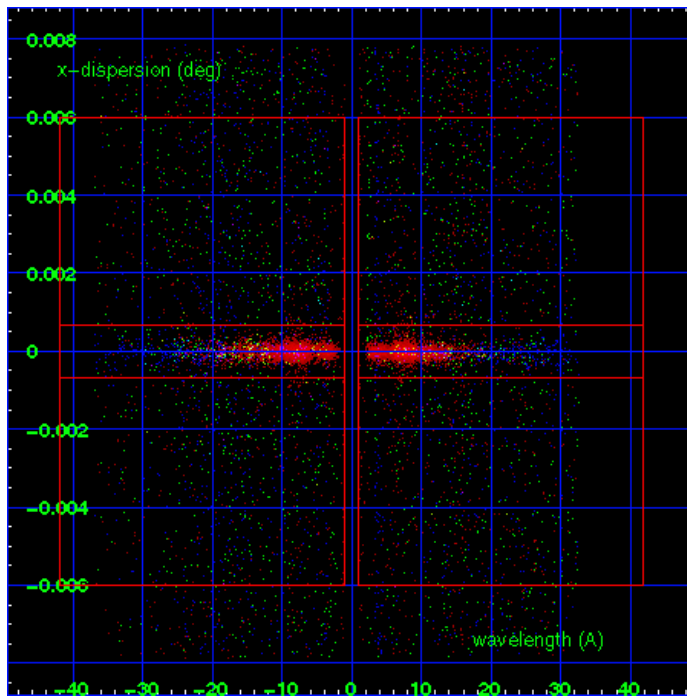
MEG Order Sort 123



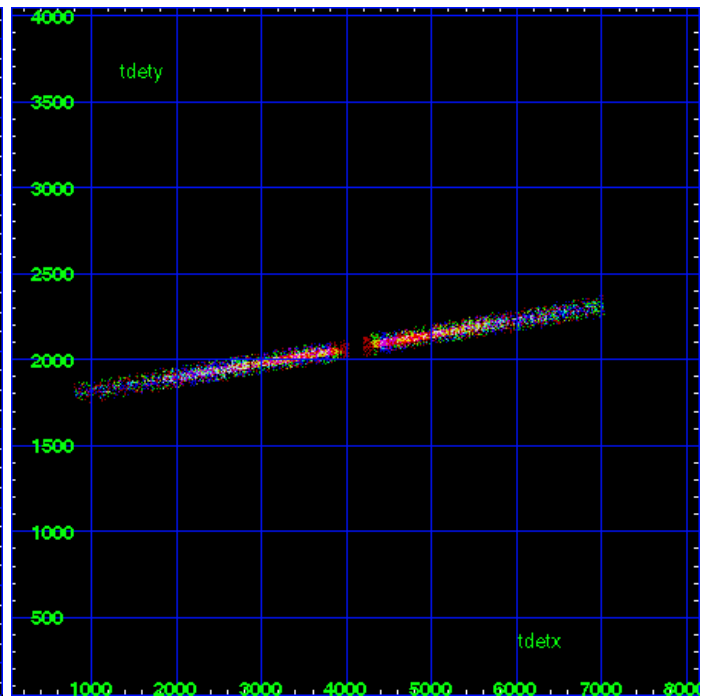
MEG Zero Order



MEG Order Sort ALL

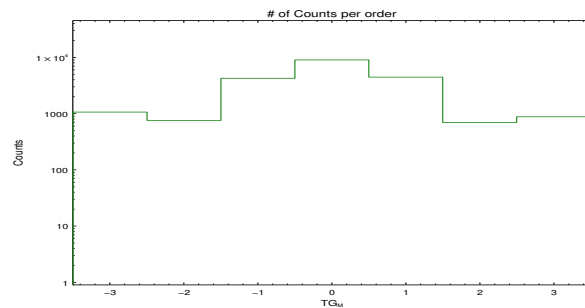


Spot Image MEG

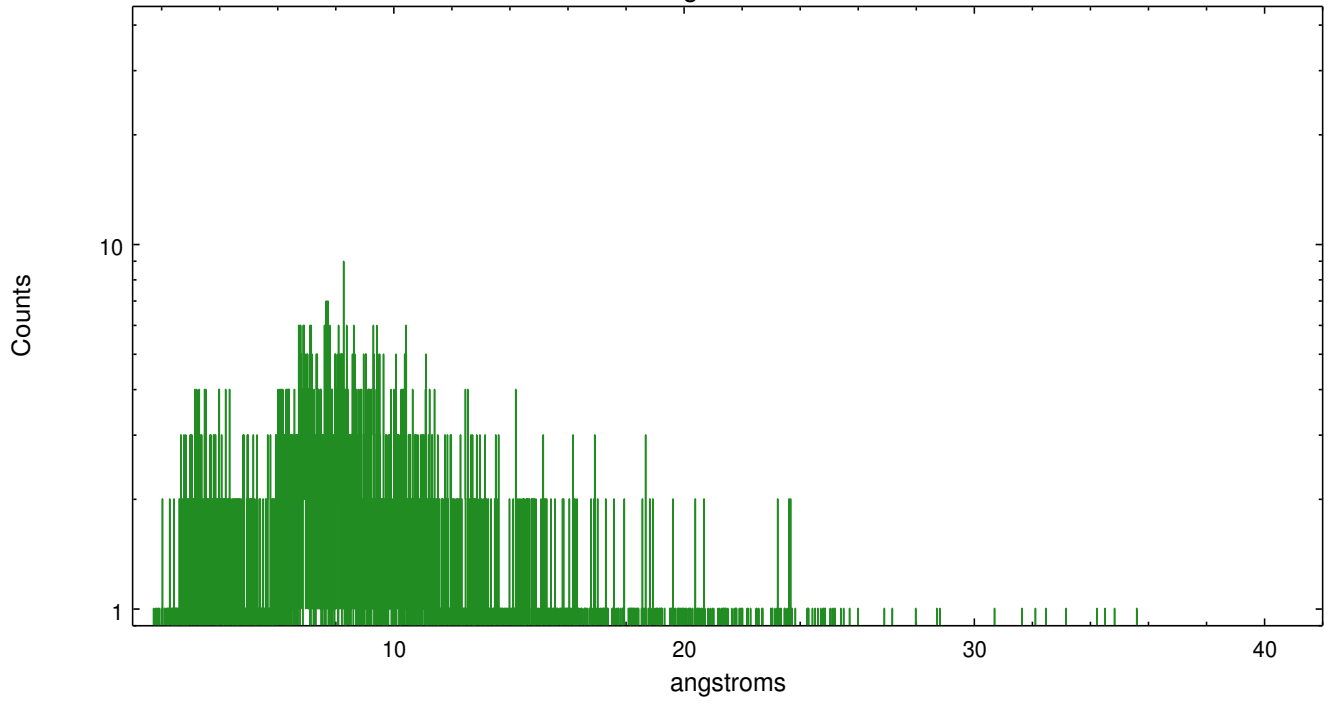


Full Detector MEG

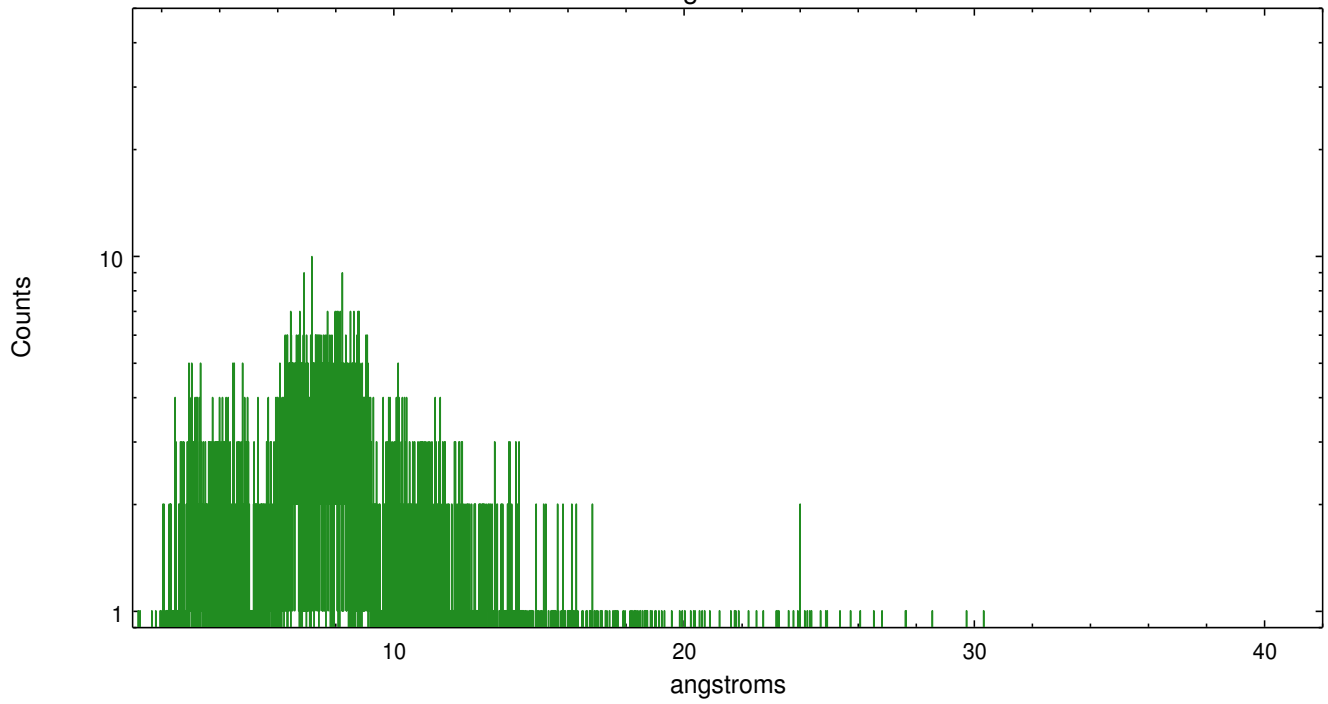
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1068	760	4271	9075	4480	698	881



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	98.555

A.2 Comments