

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1935 - L2 Version 3
Chandra X-Ray Center

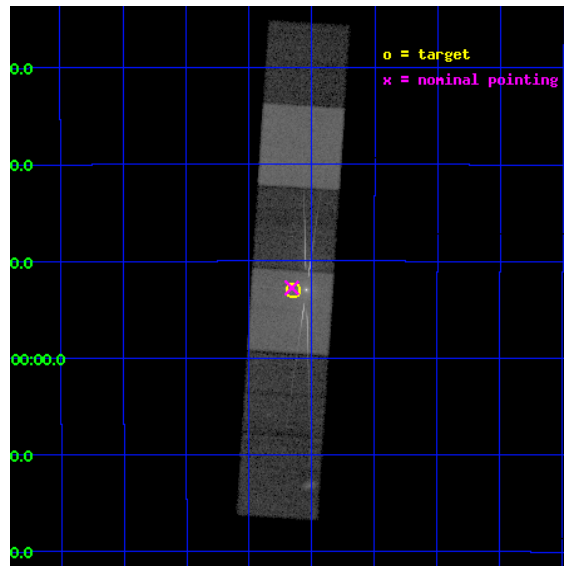
L2 Processing Date : Oct 2 2012

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1 Front

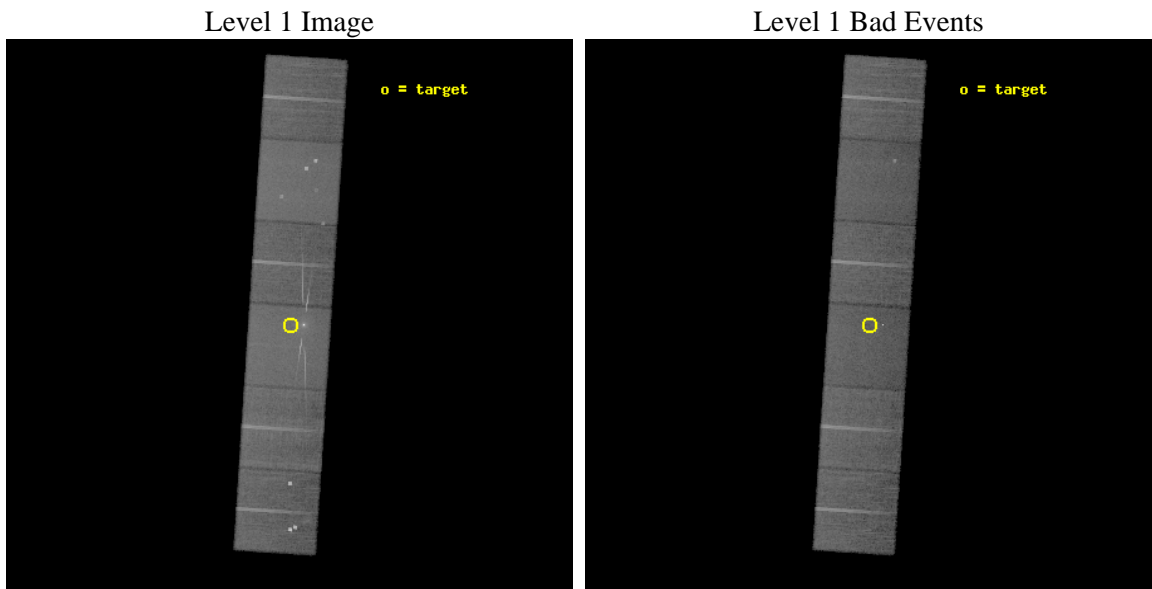
seq_num	400148	Sequence number
obs_id	1935	Observation id
title	QUIESCENT AND LOW LUMINOSITY X-RAY BINARIES	Proposal title
observer	DR CRAIG MARKWARDT	Principal investigator
object	SAX J1747.0-2853	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.787917	Observer's specified target RA [deg]
dec_targ	-28.883611	Observer's specified target Dec [deg]
ra_nom	266.7895572424	Nominal RA [deg]
dec_nom	-28.879466138439	Nominal Dec [deg]
roll_nom	93.734906948484	Nominal Roll [deg]
revision	3	Processing version of data
ontime	28956.601832658	Sum of GTIs [s]
livetime	28589.935904681	Livetime [s]
ontime4	28956.642872661	Sum of GTIs [s]
ontime5	28956.560792655	Sum of GTIs [s]
ontime6	28956.519752666	Sum of GTIs [s]
ontime7	28956.601832658	Sum of GTIs [s]
ontime8	28956.478712663	Sum of GTIs [s]
ontime9	28956.43767266	Sum of GTIs [s]
l2events	342333	Number of level 2 events



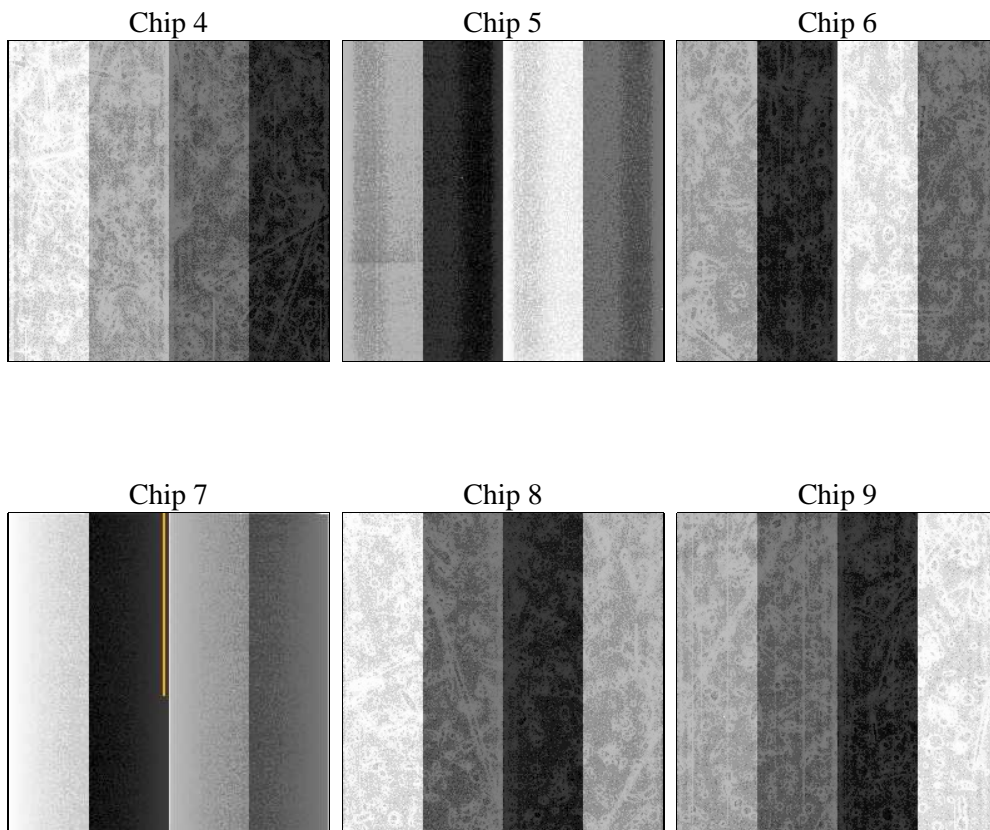
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	29000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	28956.601832658	Sum of GTIs [s]
caldbver	4.5.2	 	ontime4	28956.642872661	Sum of GTIs [s]
date	2012-10-02T06:02:13	Date and time of file creation	ontime5	28956.560792655	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	28956.519752666	Sum of GTIs [s]
			ontime7	28956.601832658	Sum of GTIs [s]
			ontime8	28956.478712663	Sum of GTIs [s]
			ontime9	28956.43767266	Sum of GTIs [s]
			l1events	1379003	Number of level 1 events

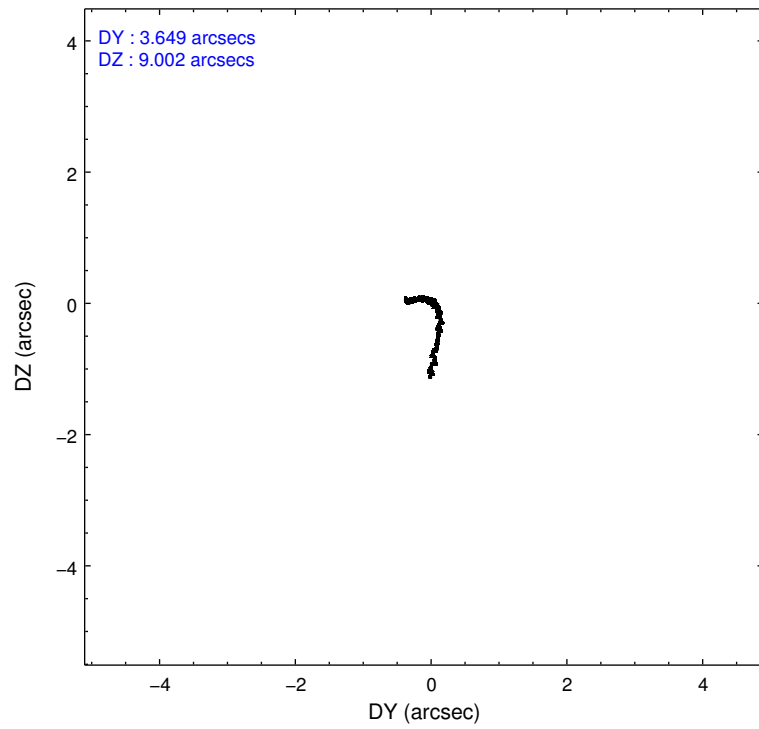
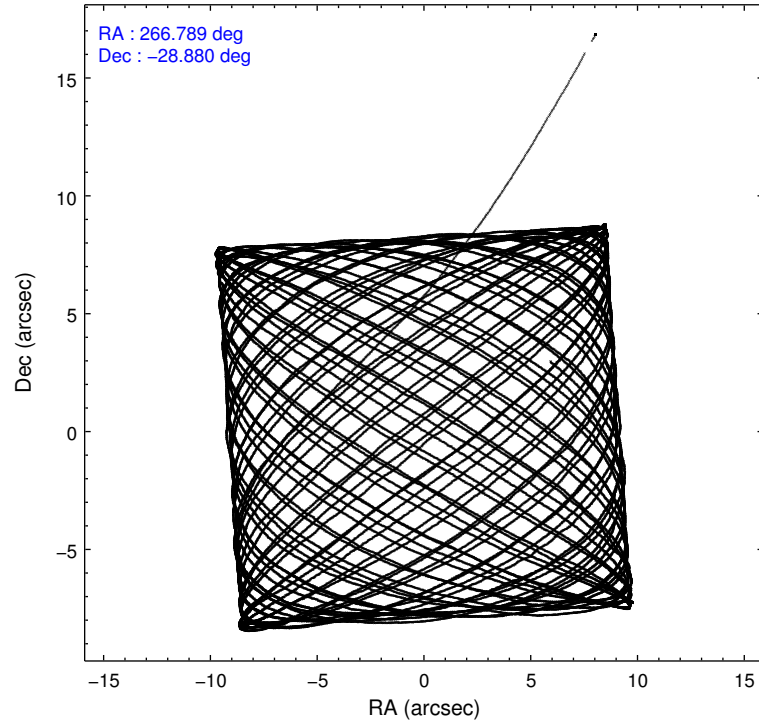
2.1.4 Events

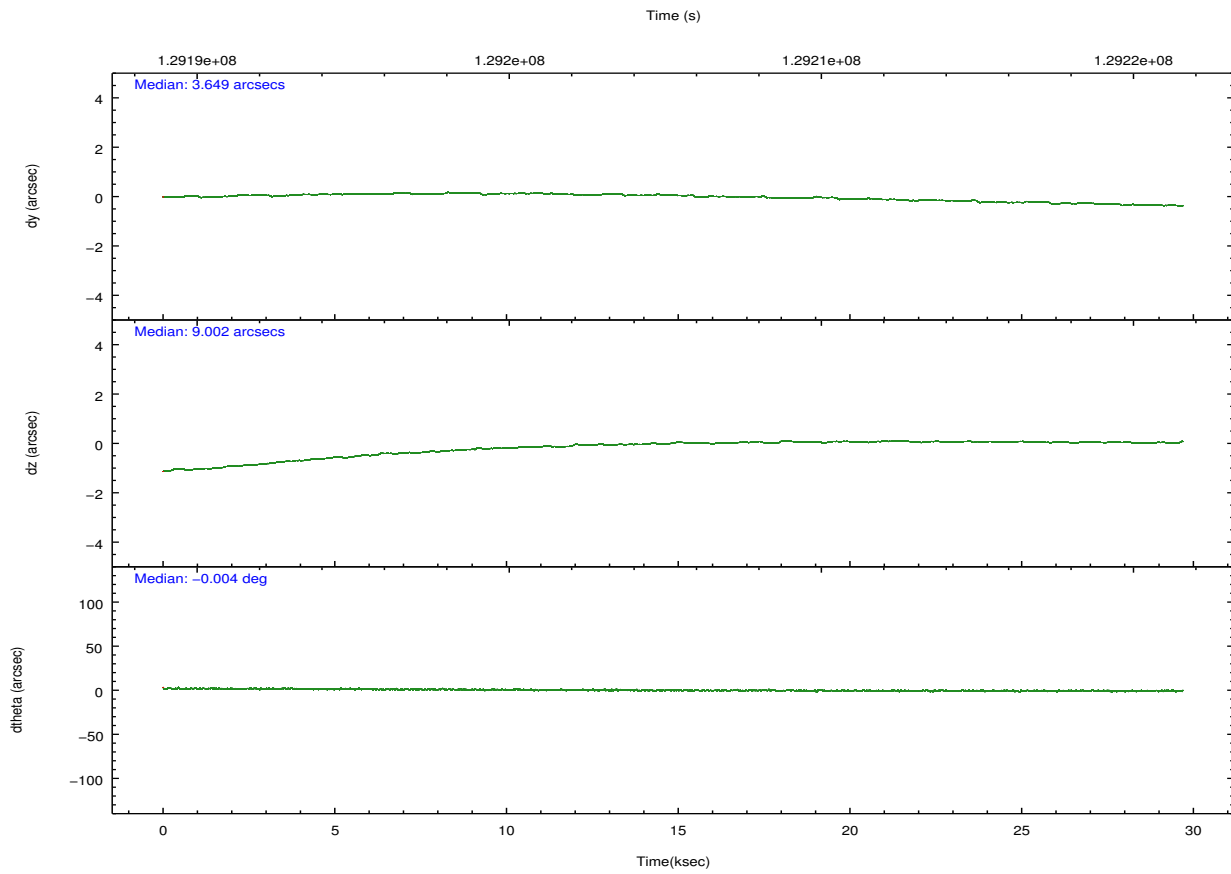
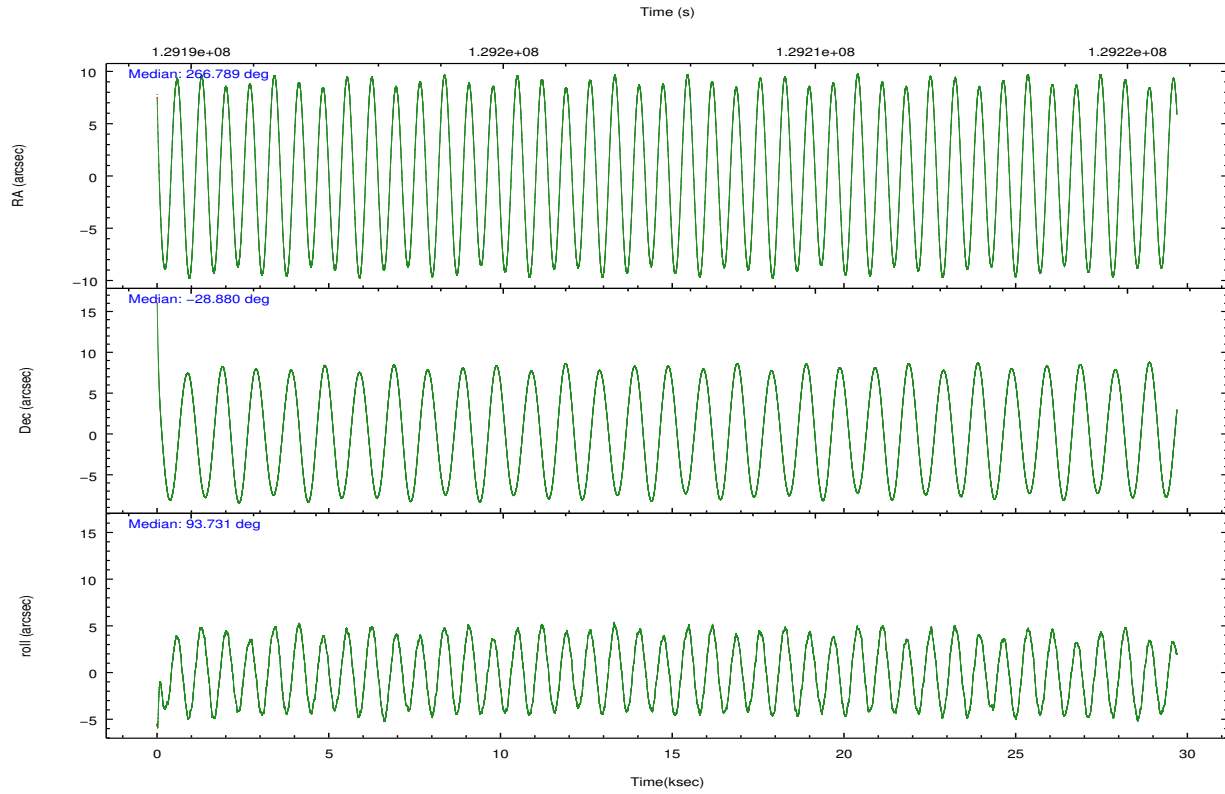
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	203143	264914	201438	274766	230423	204319	grade 0 events	10015	16673	19156	15149	17500	31834
rejected events	179336	140729	163756	143033	180342	158154		4%	6%	9%	5%	7%	15%
rejected %	88%	53%	81%	52%	78%	77%	grade 1 events	99	1065	147	500	146	169
								0%	0%	0%	0%	0%	0%
							grade 2 events	5457	34712	6800	27116	10473	5142
								2%	13%	3%	9%	4%	2%
							grade 3 events	2166	5510	2998	12053	5153	2334
								1%	2%	1%	4%	2%	1%
							grade 4 events	2065	5290	2924	12102	4806	2185
								1%	1%	1%	4%	2%	1%
							grade 5 events	6971	19862	8040	24223	10186	8100
								3%	7%	3%	8%	4%	3%
							grade 6 events	4111	62024	5815	65346	12155	4680
								2%	23%	2%	23%	5%	2%
							grade 7 events	172259	119778	155558	118277	170004	149875
								84%	45%	77%	43%	73%	73%

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	266.807157	266.7895572424006	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.901929	-28.87946613843924	Alternating exposures requested	N	N
[deg] Pointing Roll	93.586798	93.73490694848425	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	129191096.184000	129189873.54344			
Observation start date	2002-02-04T06:23:52	2002-02-04T06:04:33			
[s] Observation end time (MET)	129220096.184000	129220609.70718			
Observation end date	2002-02-04T14:27:12	2002-02-04T14:36:49			
Read mode	TIMED	TIMED			

2.3 Aspect



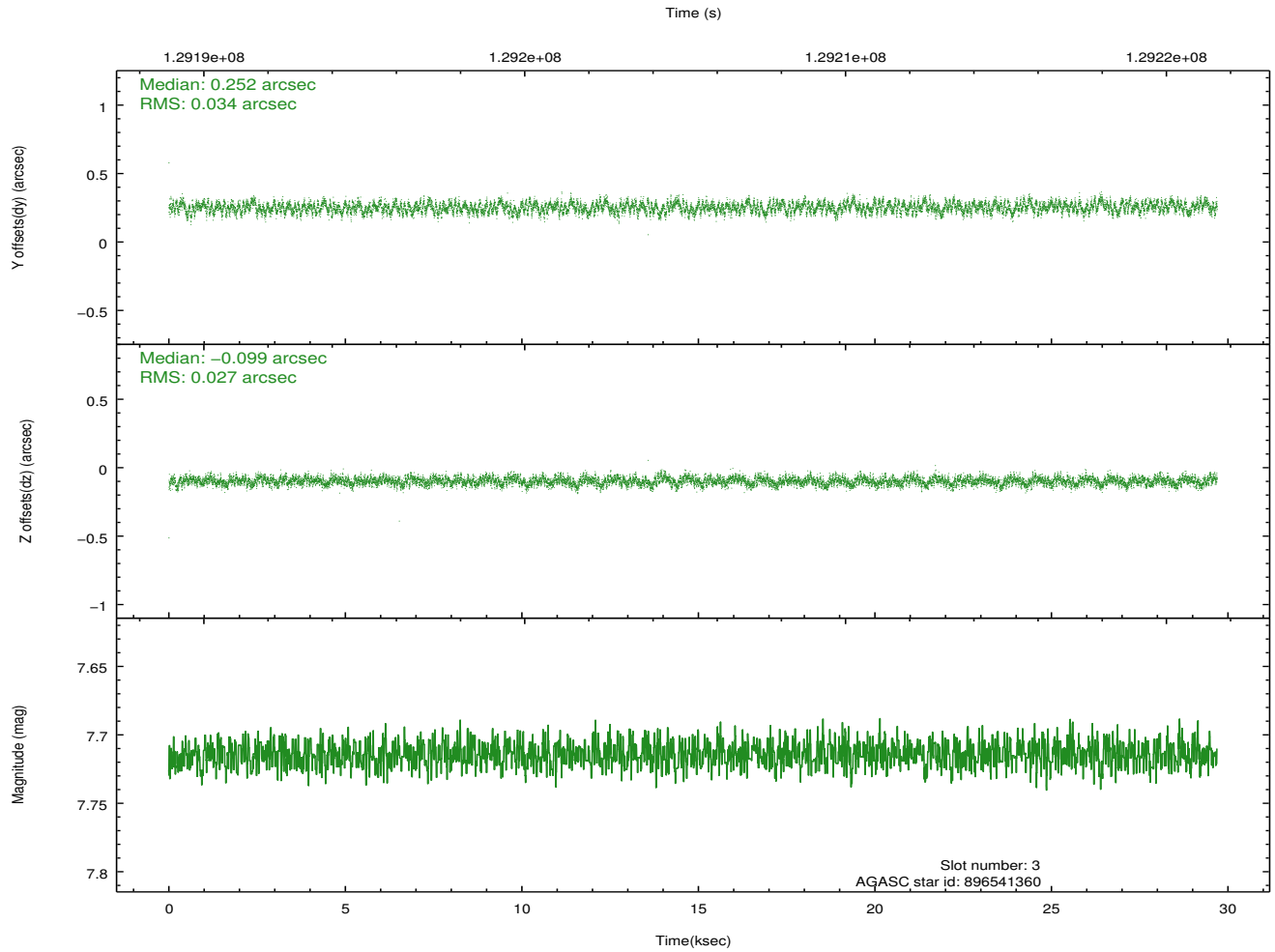
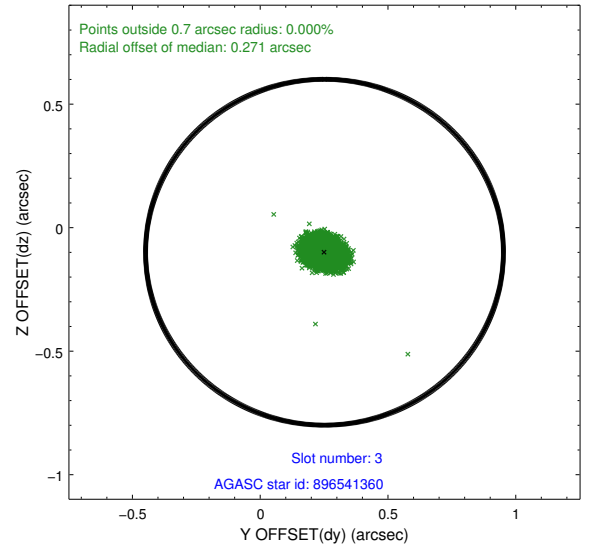
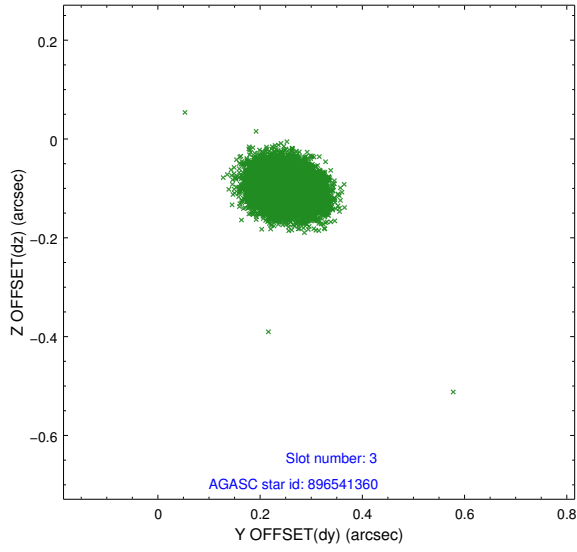


Slot Statistics

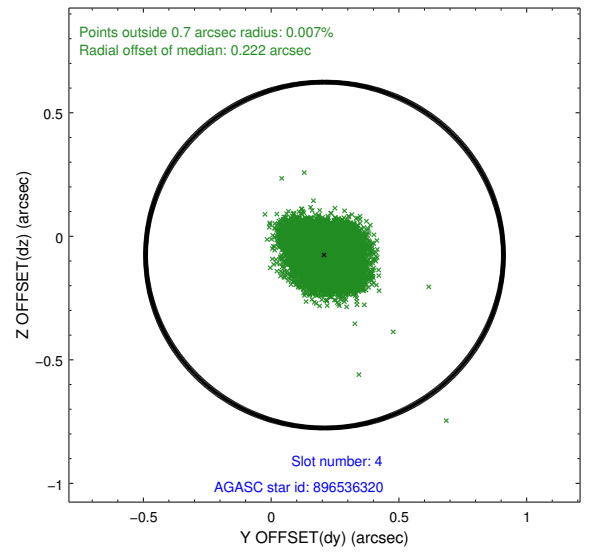
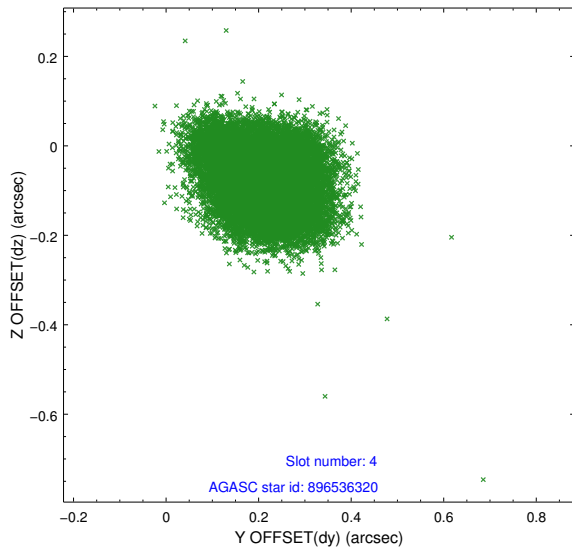
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	7243	-0.023	-0.007	0.009	0.016	0.000000	0.000000	-756.28	-1730.03
1	FID	ACIS-S-4	7.20	7241	-0.003	0.018	0.007	0.012	0.000000	0.000000	2156.97	178.41
2	FID	ACIS-S-6	7.36	7240	-0.002	-0.004	0.007	0.012	0.000000	0.000000	405.81	815.86
3	GUIDE	896541360	7.71	14481	0.252	-0.099	0.047	0.073	266.684478	-29.453744	-1958.43	507.44
4	GUIDE	896536320	8.97	14475	0.209	-0.076	0.106	0.162	266.369048	-29.307026	-1371.90	1463.47
5	GUIDE	896540888	7.92	14480	-0.172	0.227	0.068	0.106	267.212234	-28.246138	2273.68	-1429.74
6	GUIDE	896540528	8.26	14483	0.082	0.187	0.067	0.103	267.368305	-29.314773	-1597.29	-1665.35
7	GUIDE	896538696	6.76	14483	-0.367	-0.236	0.047	0.078	266.298470	-28.325572	2167.84	1478.66

2.4 Star Slots

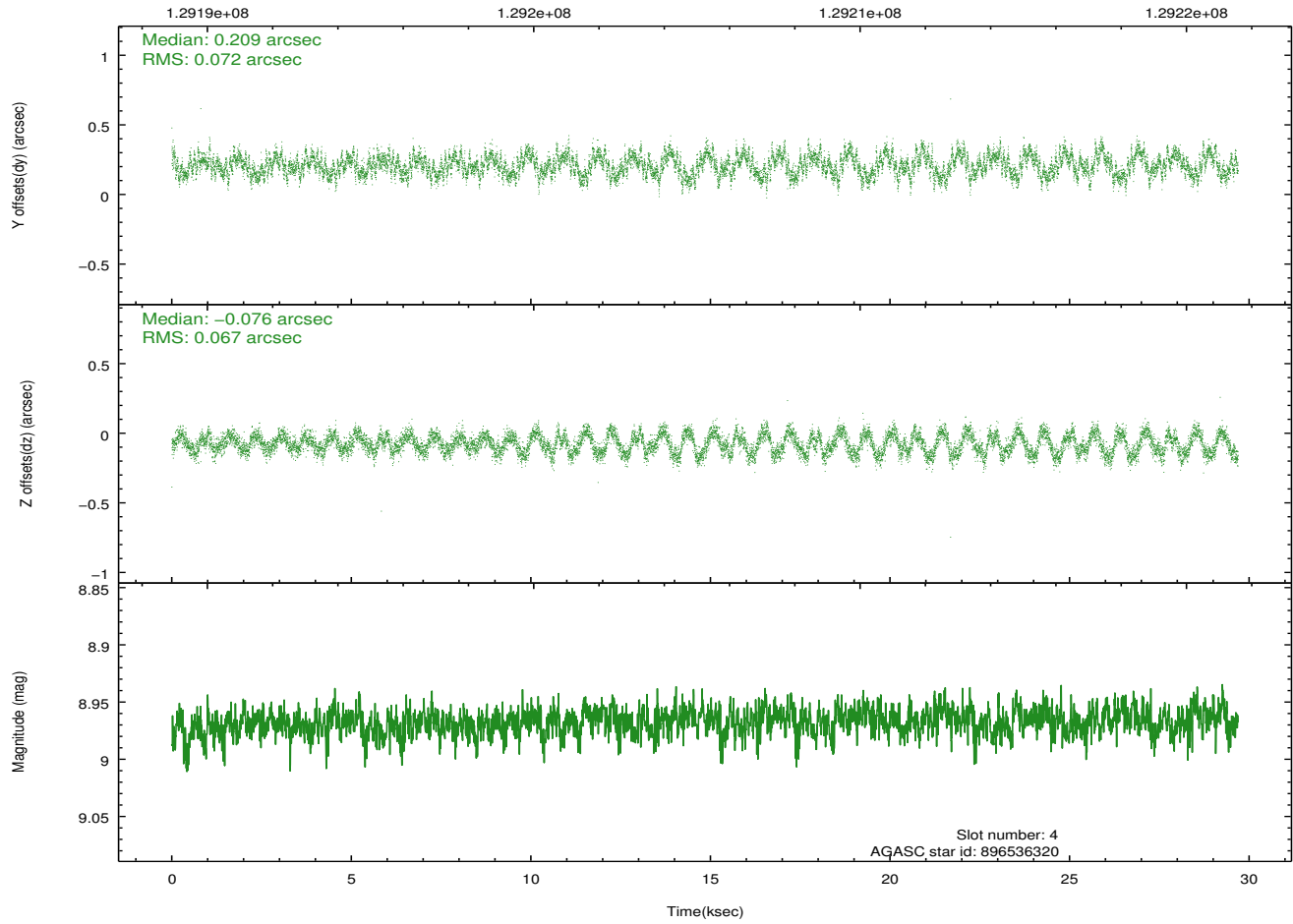
2.4.1 Slot 3



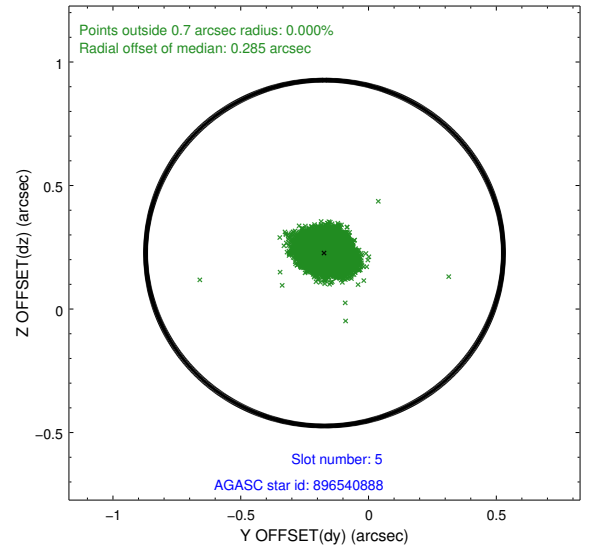
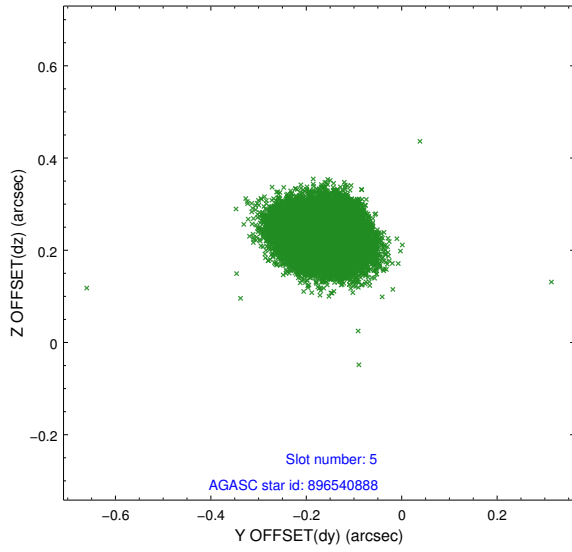
2.4.2 Slot 4



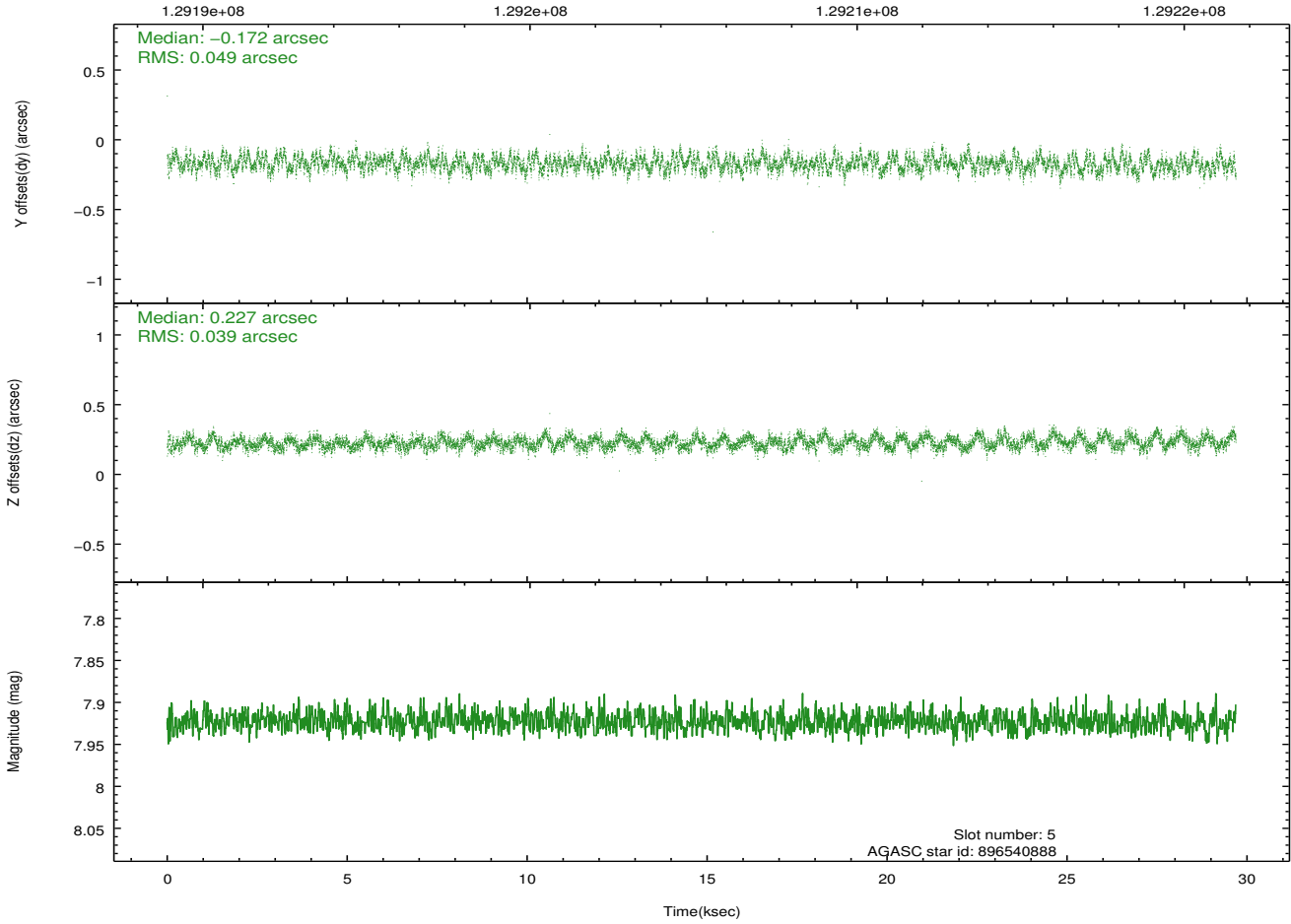
Time (s)



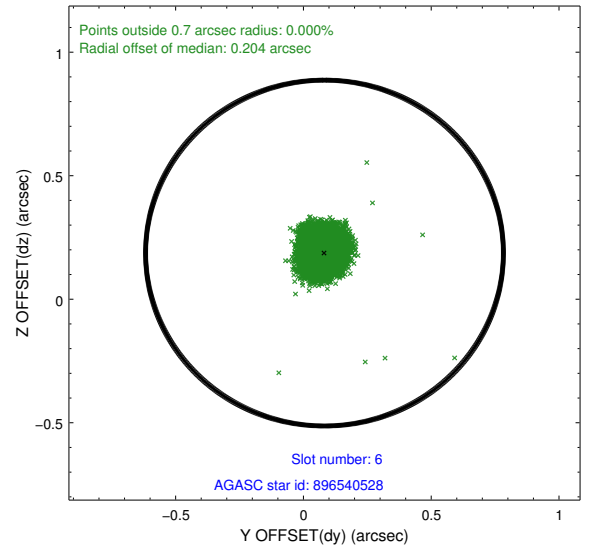
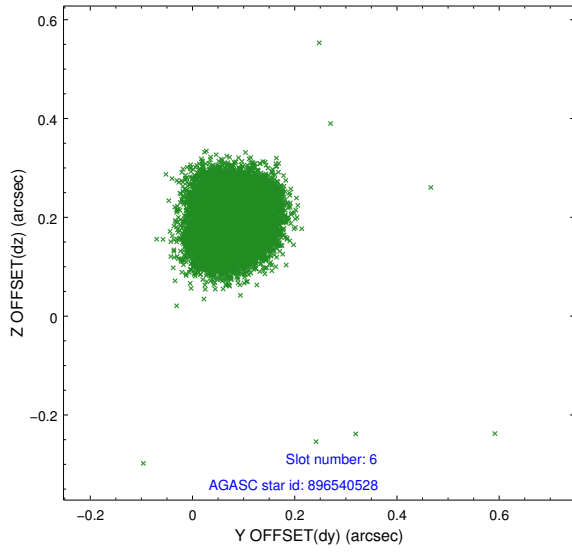
2.4.3 Slot 5



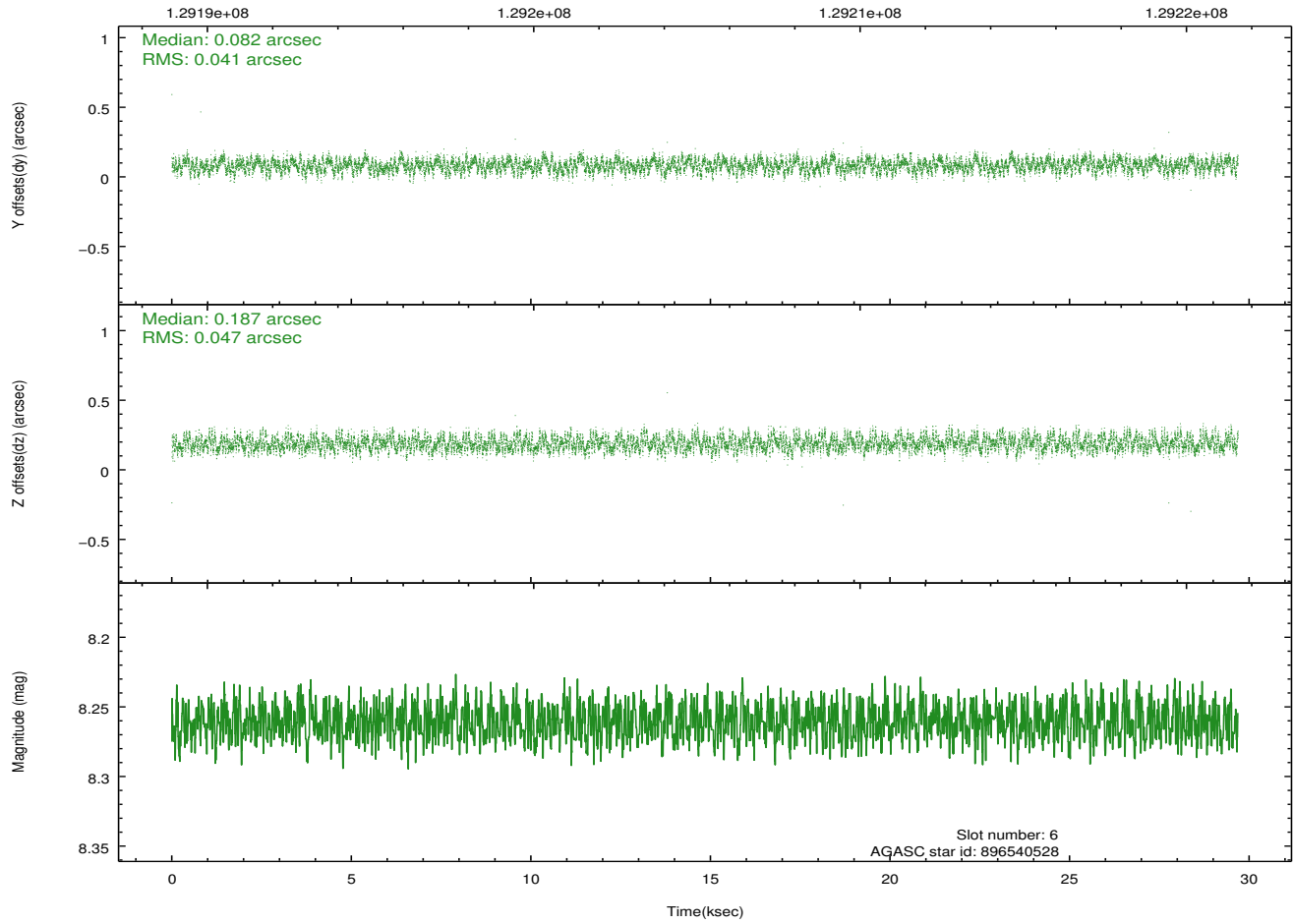
Time (s)



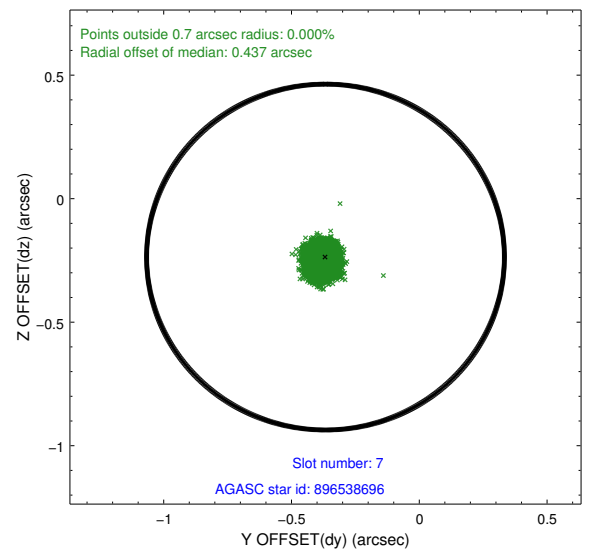
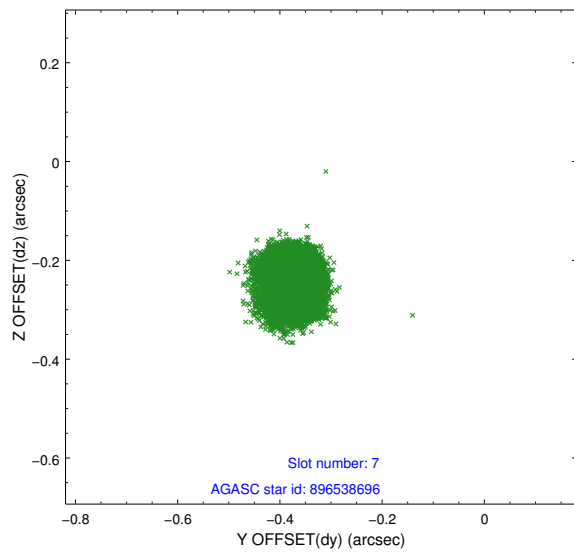
2.4.4 Slot 6



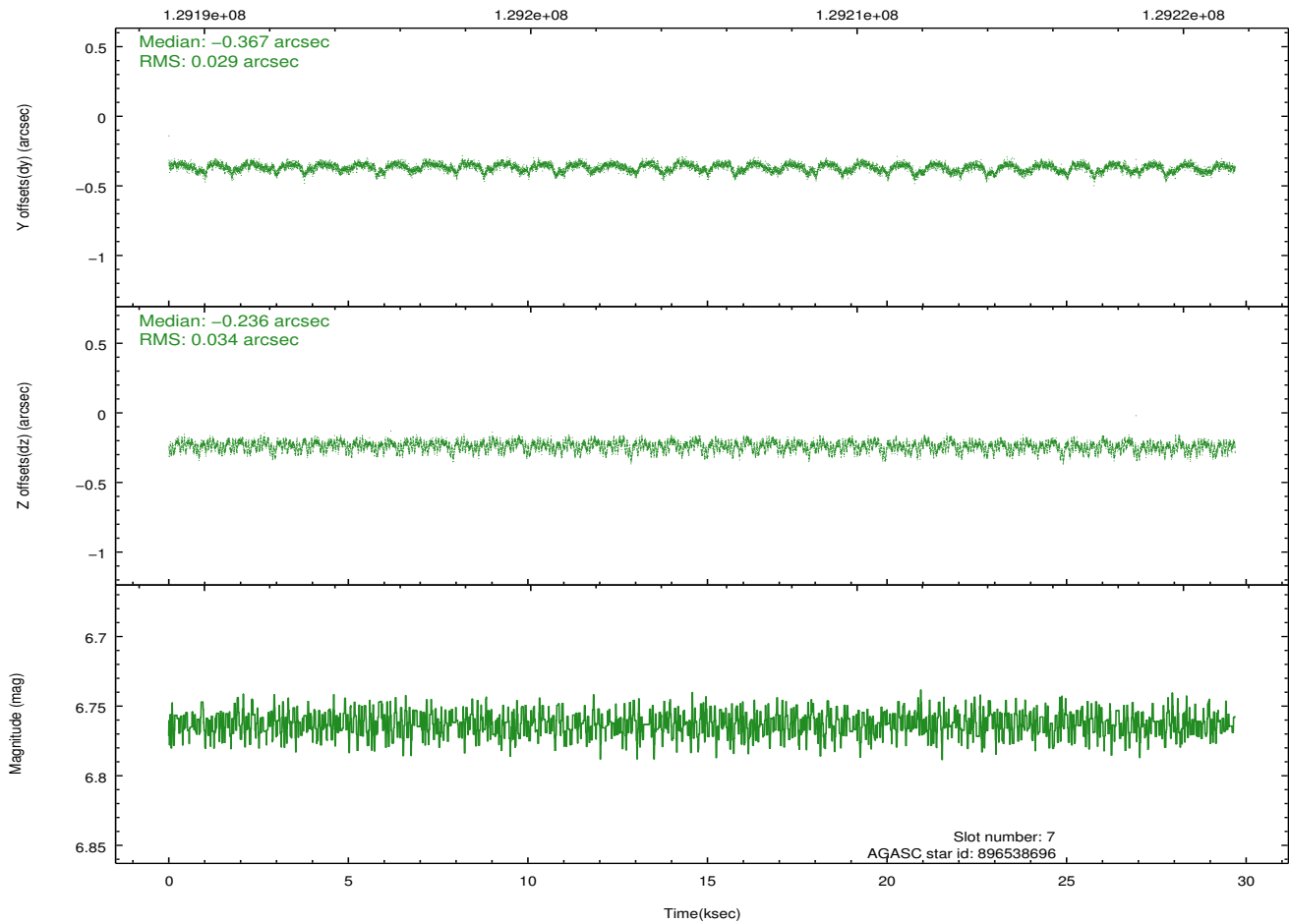
Time (s)



2.4.5 Slot 7

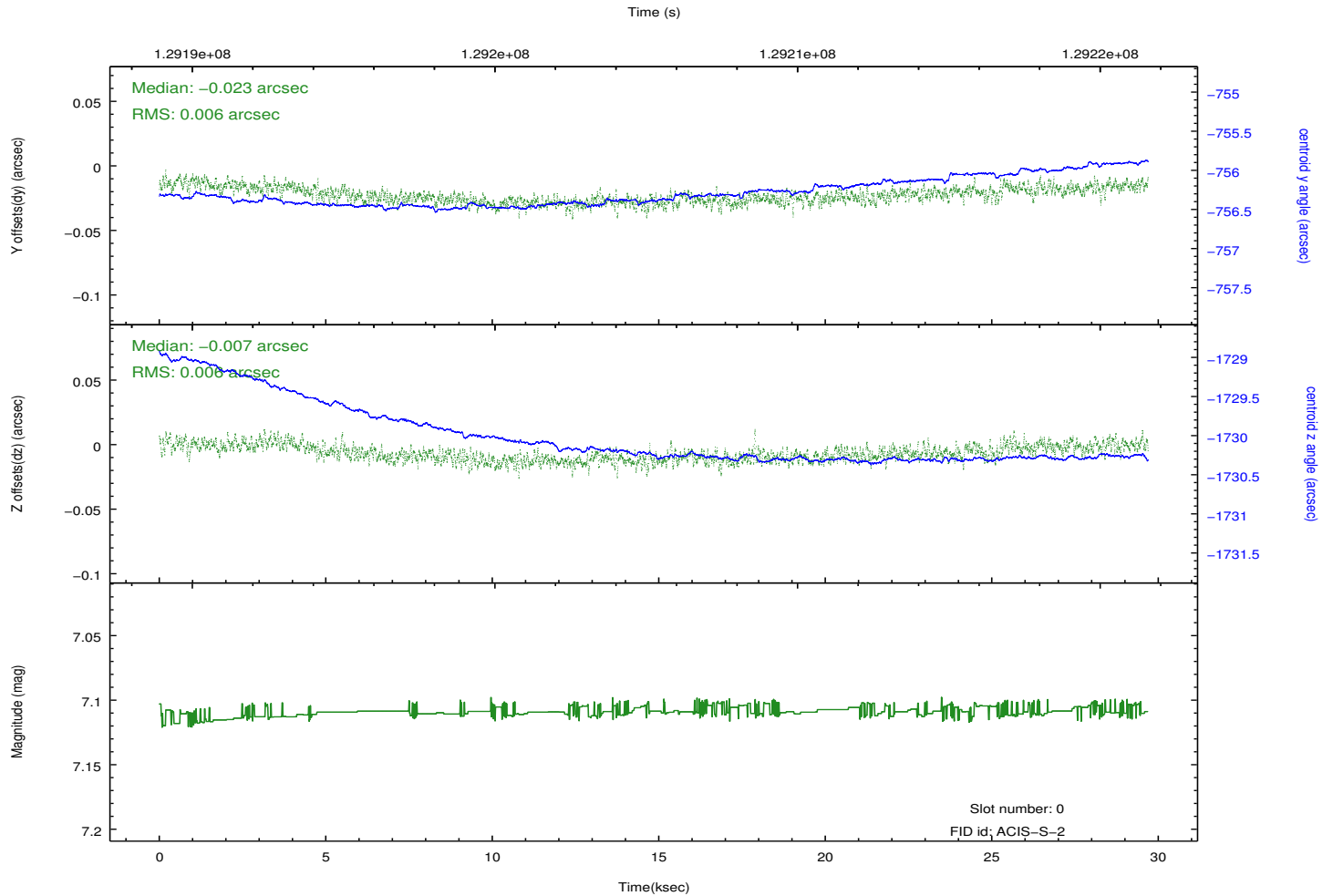
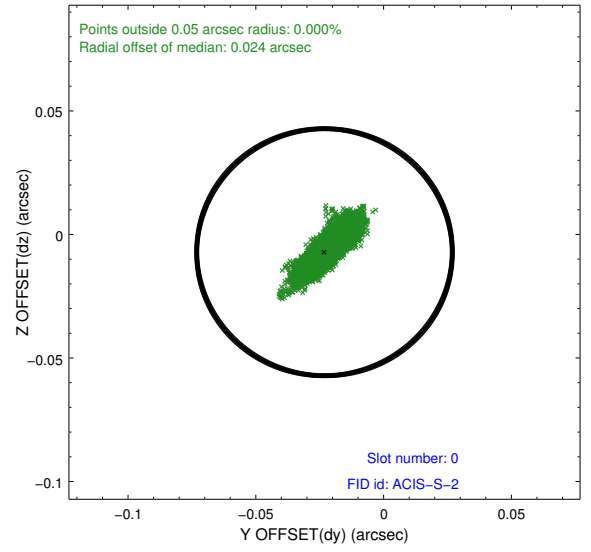
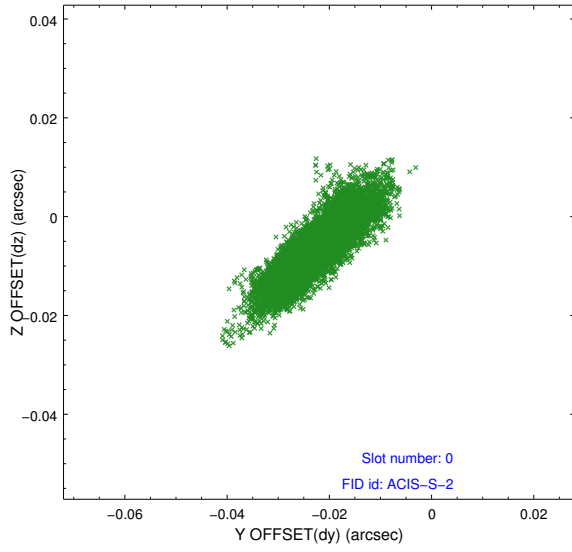


Time (s)

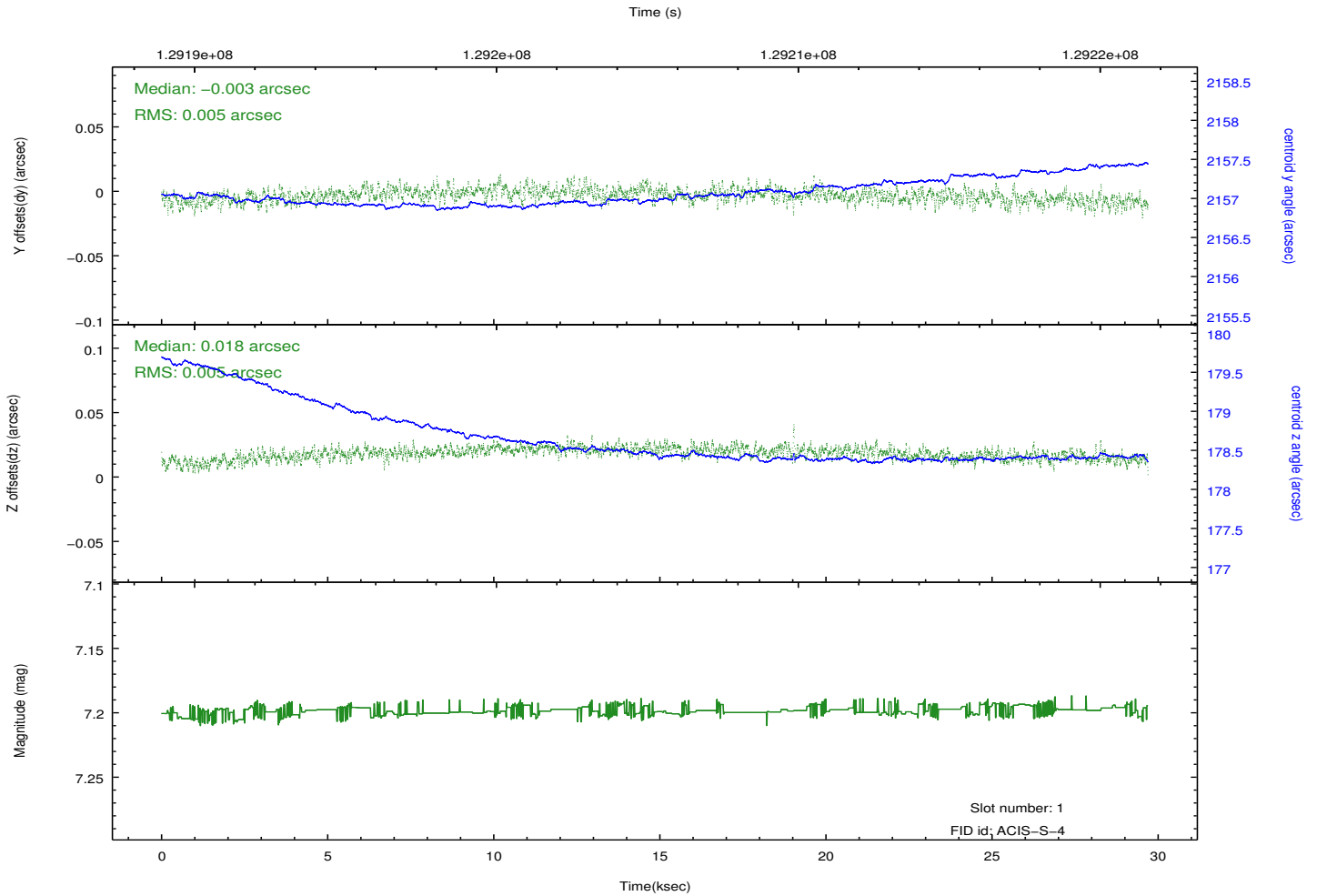
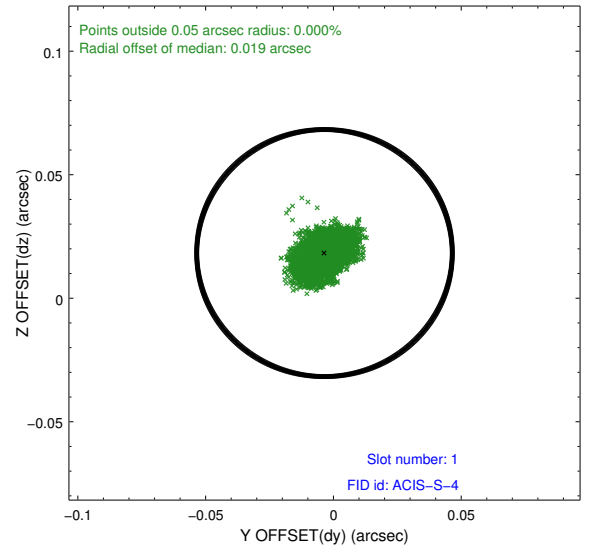
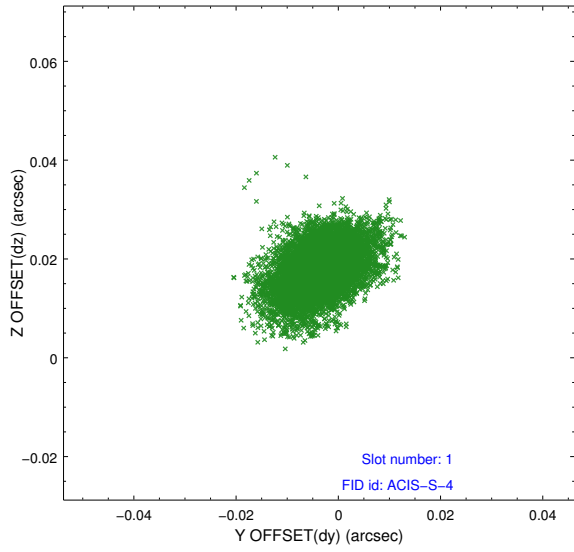


2.5 FID Slots

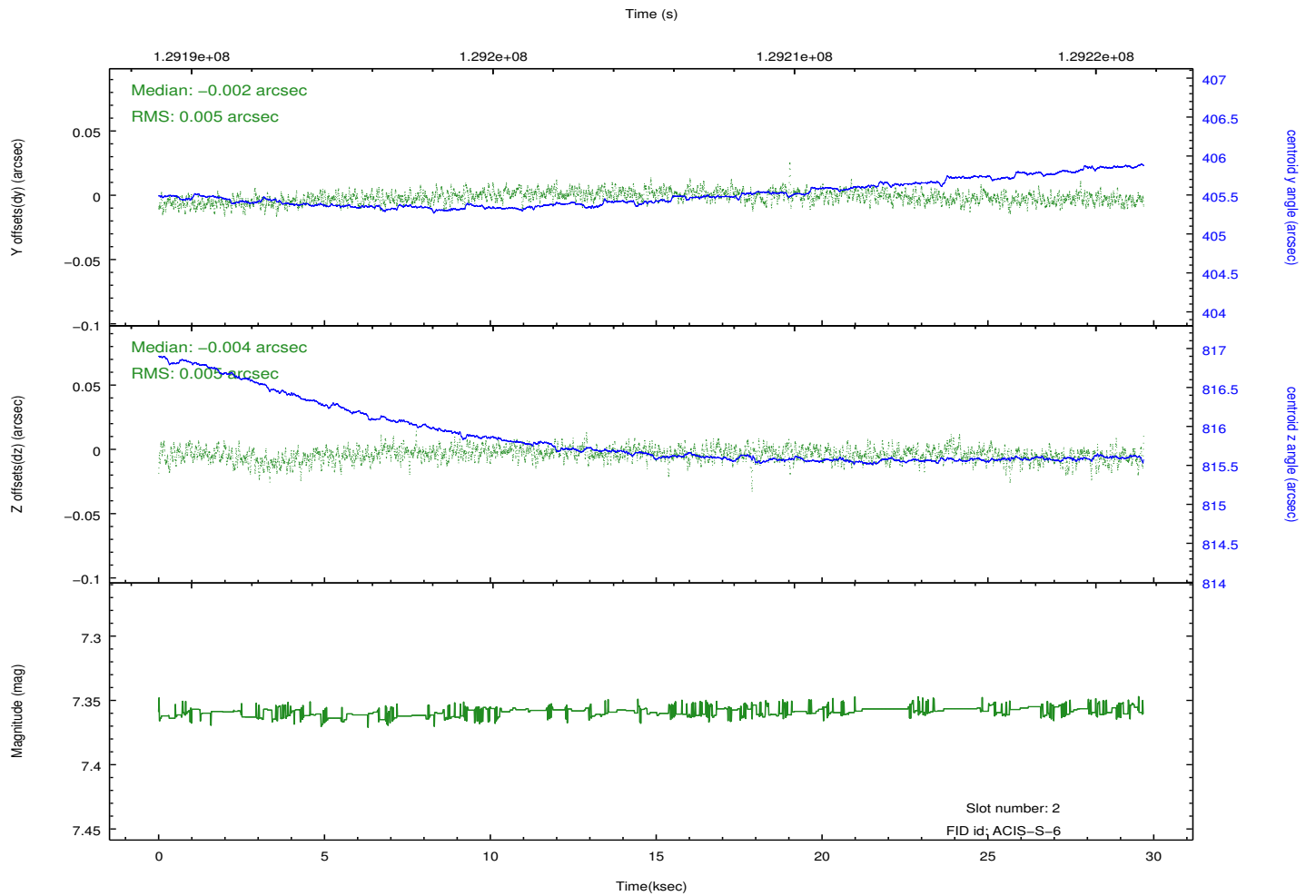
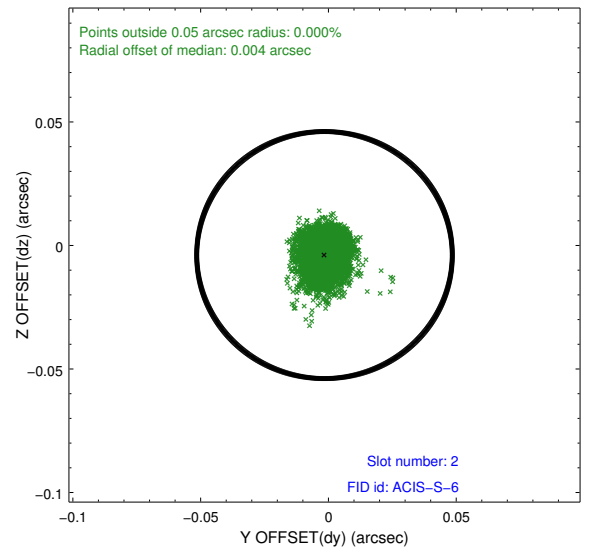
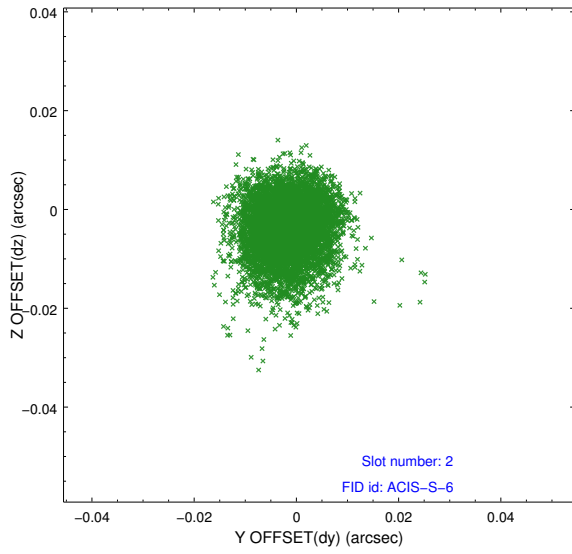
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

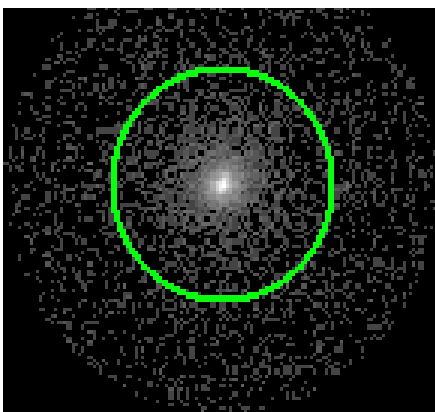


3 Gratings

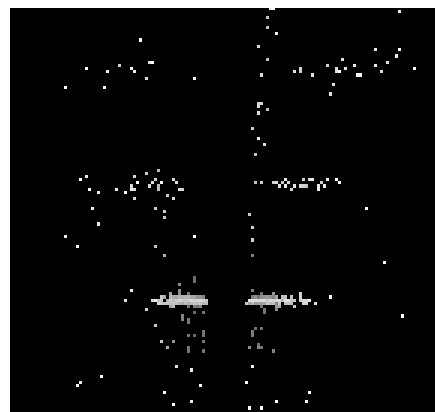
3.1 HEG Arm



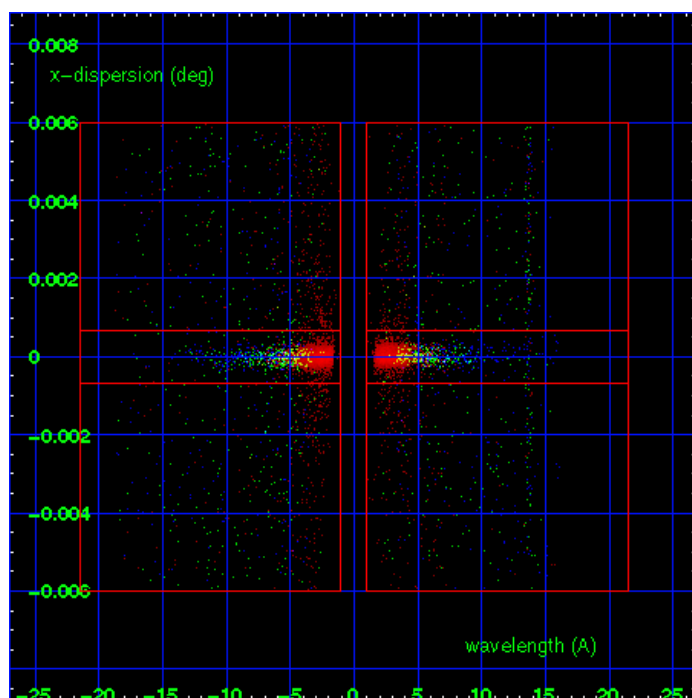
HEG Order Sort 123



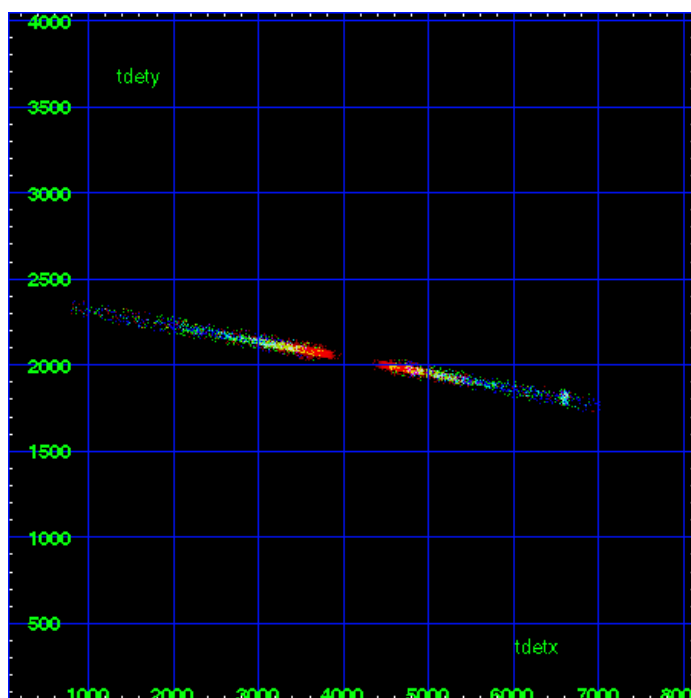
HEG Zero Order



HEG Order Sort ALL

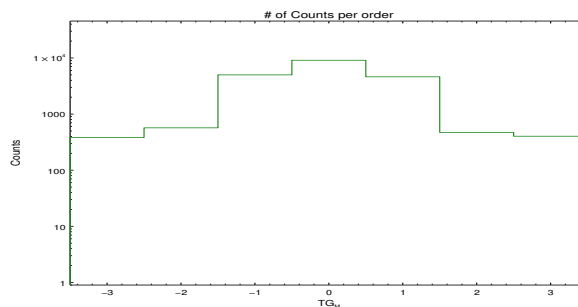


Spot Image HEG

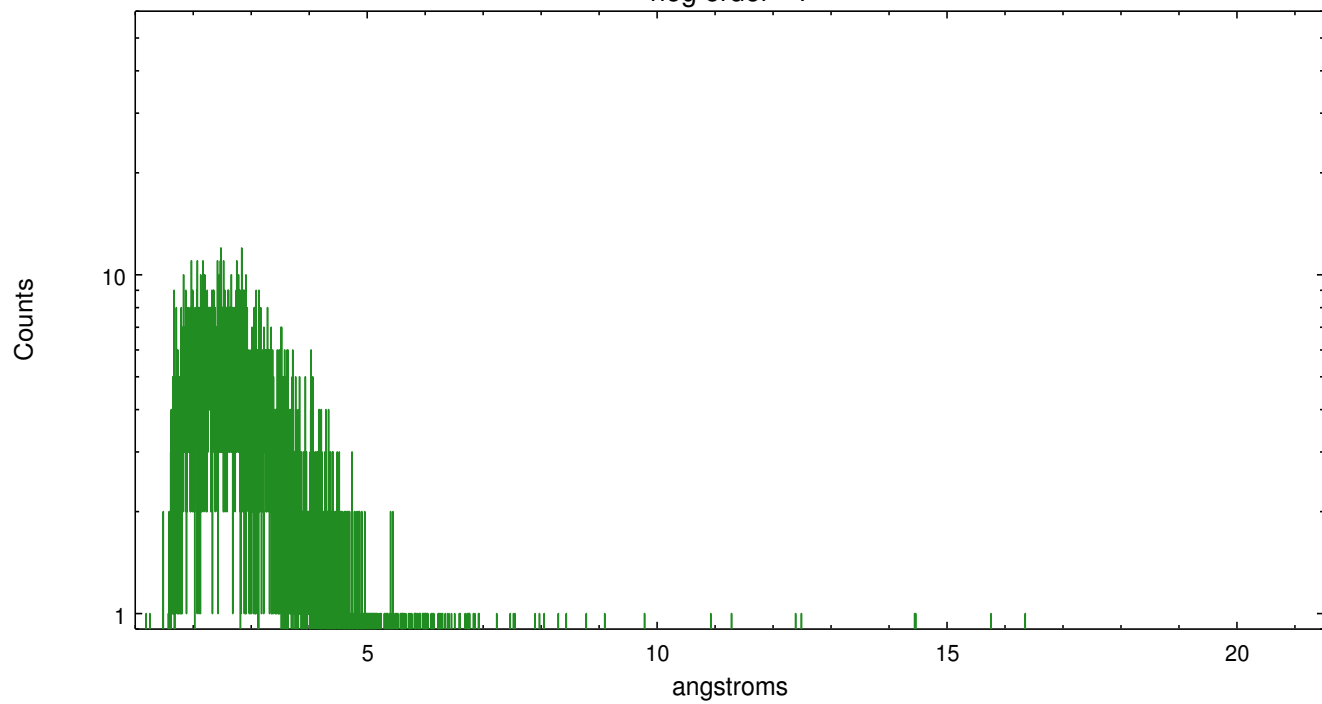


Full Detector HEG

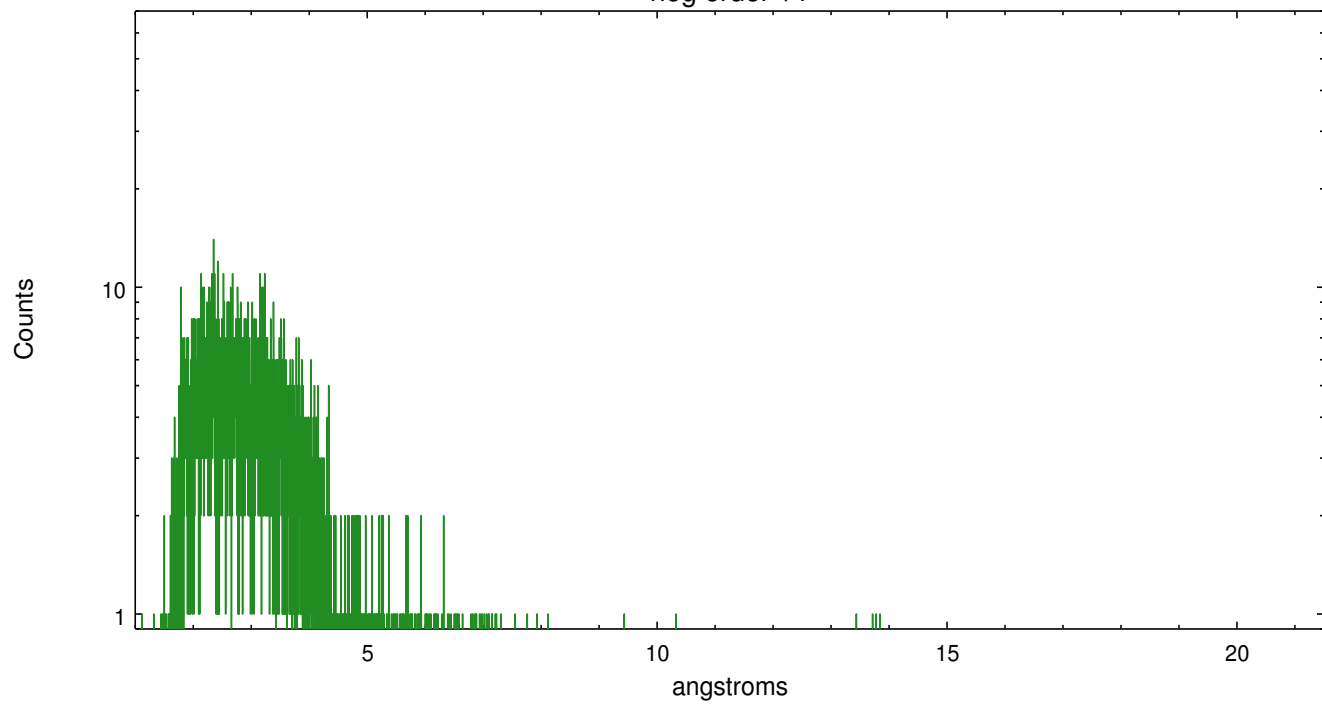
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	383	569	4996	9088	4615	472	403



heg order -1



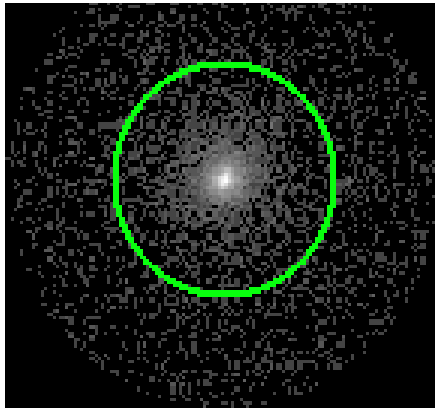
heg order +1



3.2 MEG Arm



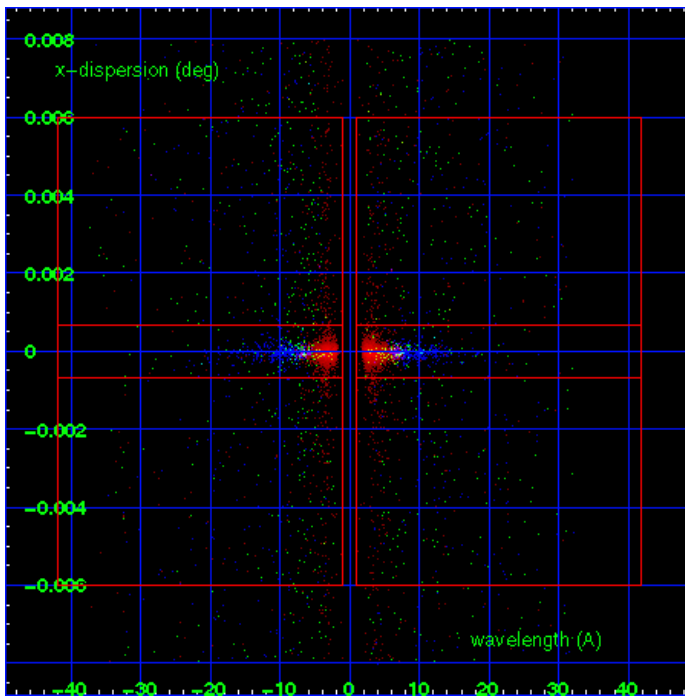
MEG Order Sort 123



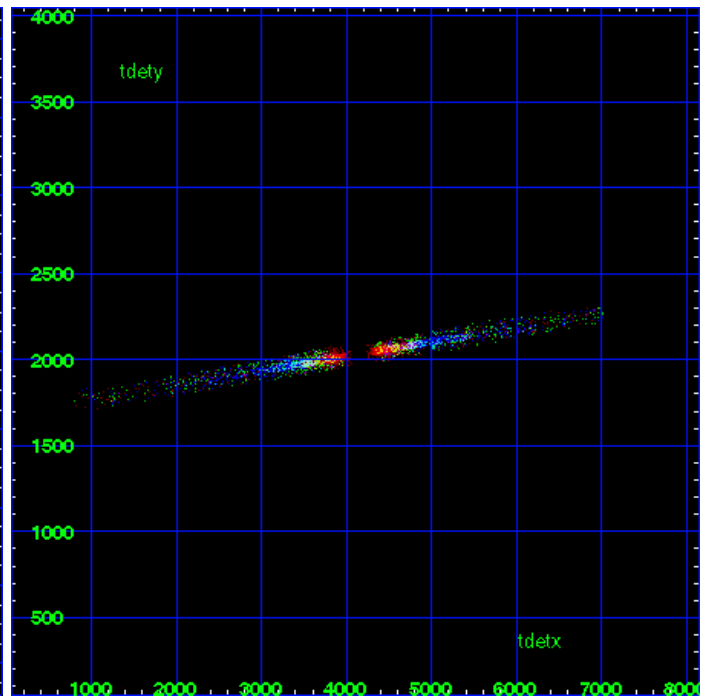
MEG Zero Order



MEG Order Sort ALL

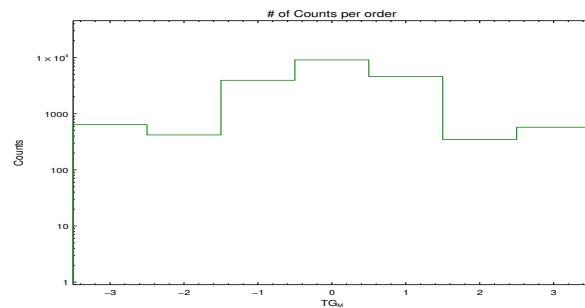


Spot Image MEG

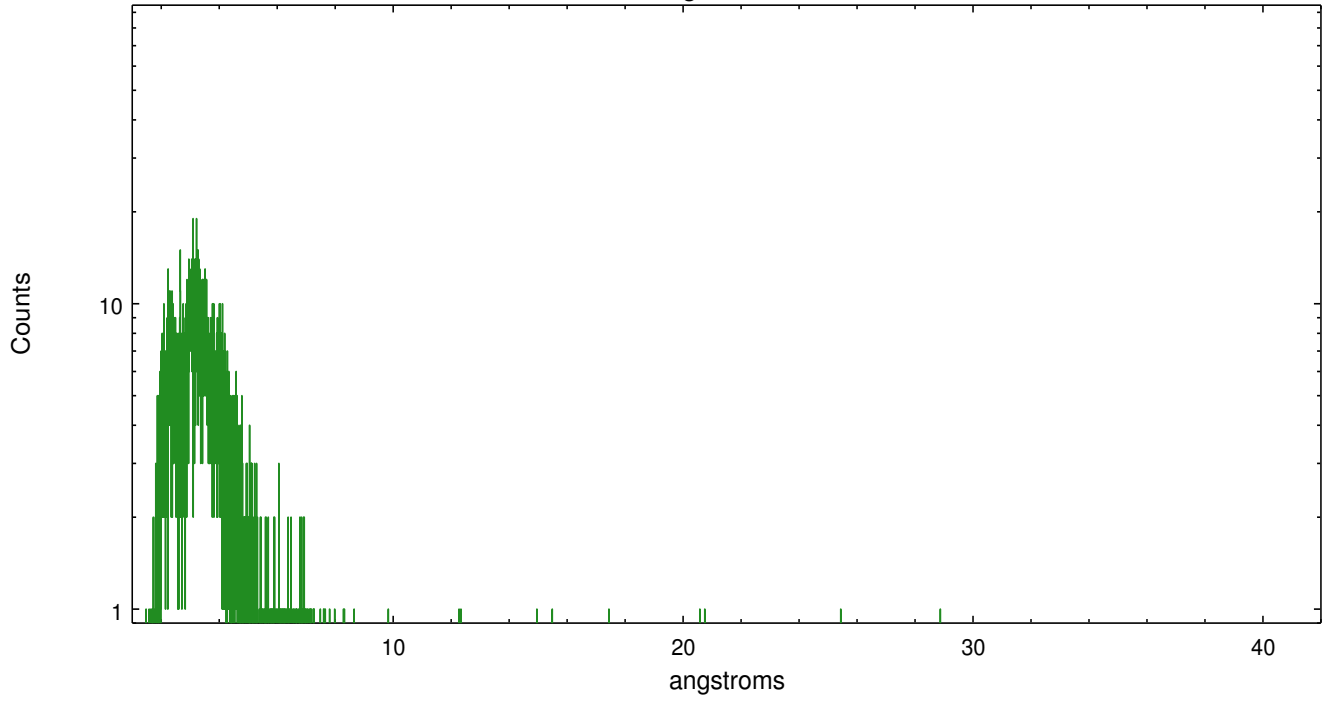


Full Detector MEG

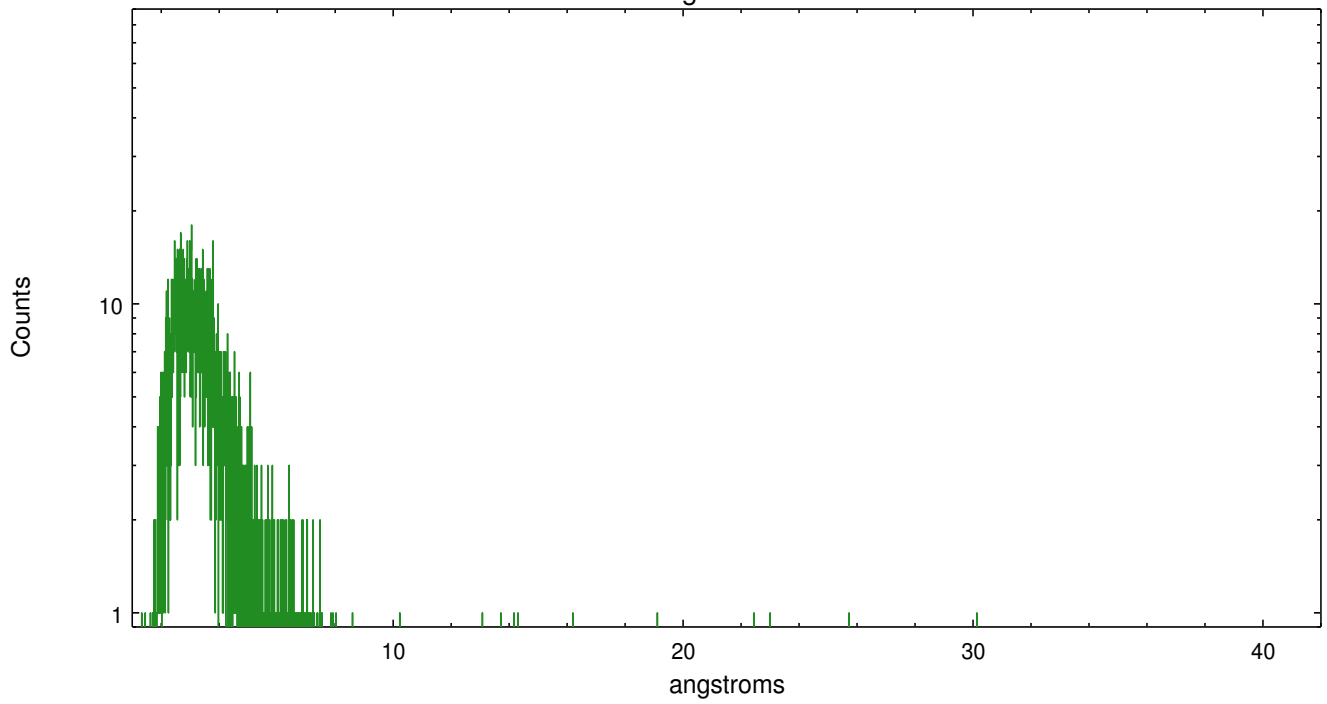
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	639	419	3938	9088	4615	348	574



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.956

A.2 Comments

Target is displaced about 1 arcmin toward edge of chip. Coordinates were not sufficiently accurate. The source identified is the target intended by the observer. The slight off-axis location affects the PSF.