

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 4502 - L2 Version 001
Chandra X-Ray Center

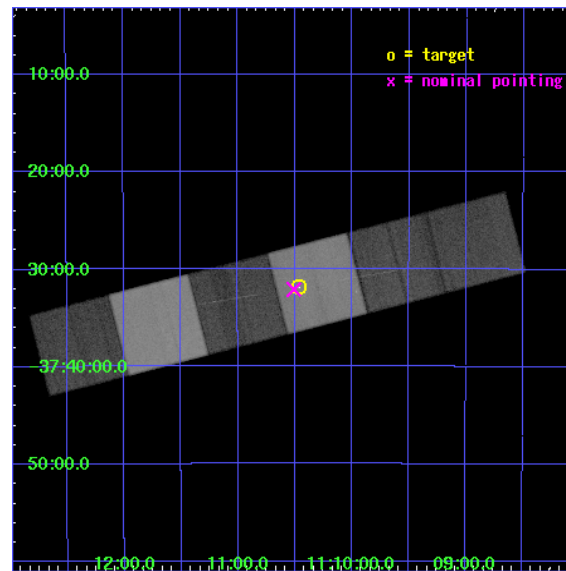
L2 Processing Date : May 29 2006

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1 Front

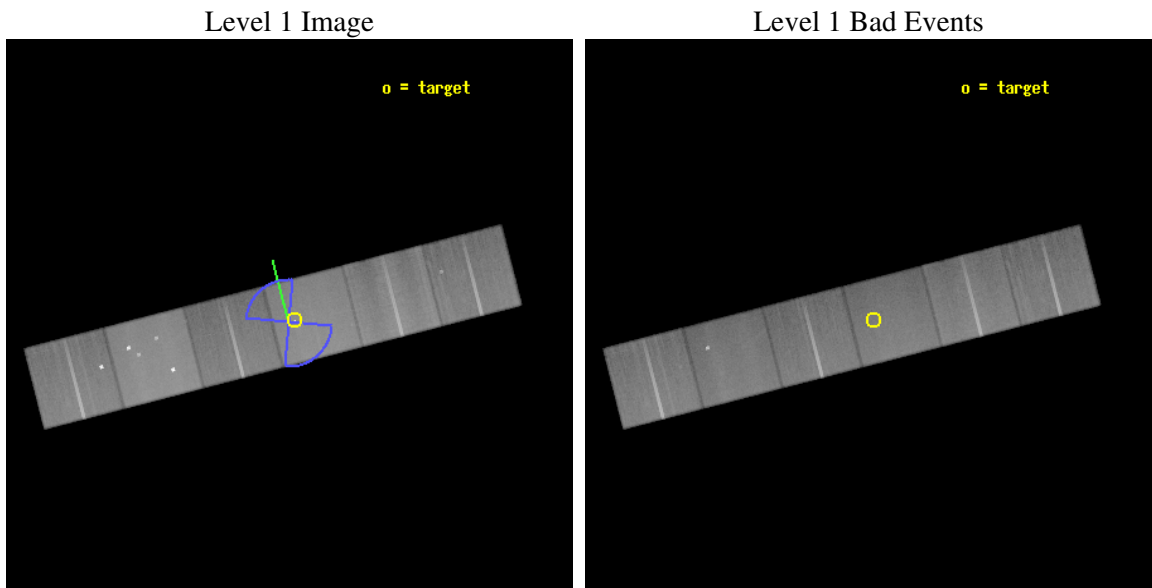
seq_num	200271
obs_id	4502
title	Probing Pre-main Sequence Accretion with HETGS: the Hen 3-600 Binary
observer	Prof. Joel Kastner
object	Hen 3-600
dtcycle	0
cycle	P
ra_targ	167.61625
dec_targ	-37.531111
ra_nom	167.62733119493
dec_nom	-37.535120116215
roll_nom	345.59777517131
revision	2
ontime	100681.59962493
livetime	99406.7085873
ontime4	100668.63565391
ontime5	100681.59962493
ontime6	100678.35863465
ontime7	100681.59962493
ontime8	100681.59962493
ontime9	100678.35864466
l2events	1037351



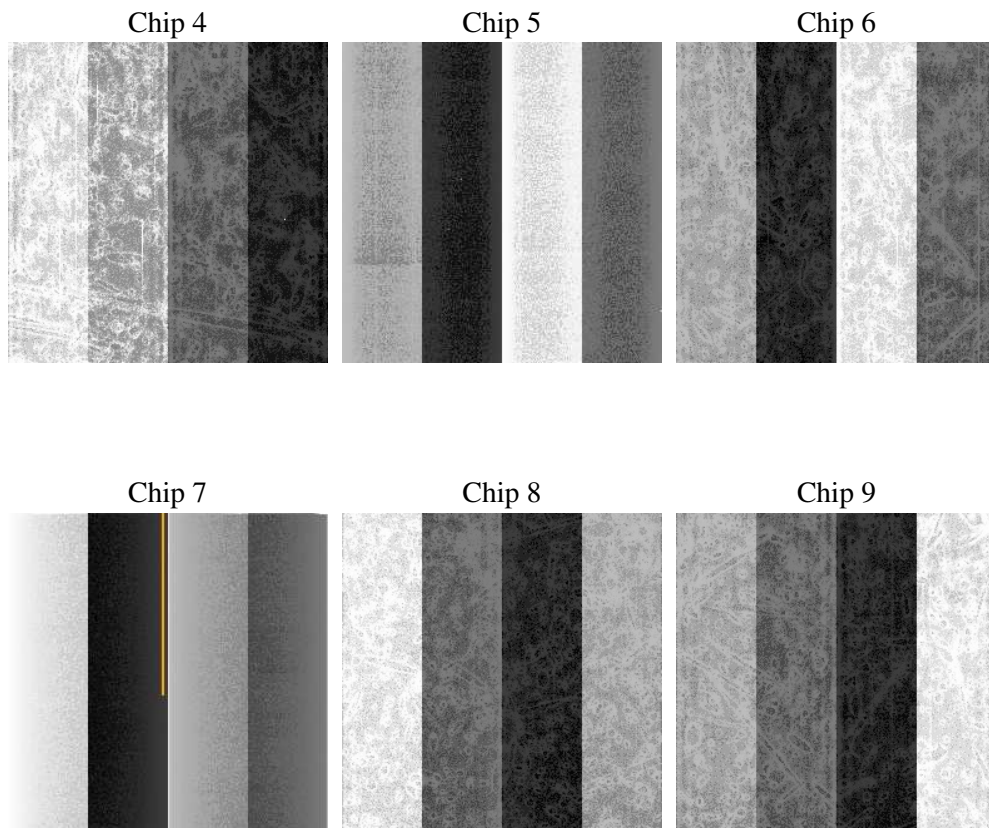
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.2
caldbver	3.2.2
date	2006-05-29T17:04:48
revision	2

sched_exp_time	100725.000000
ontime	100685.27747953
ontime4	100672.31348857
ontime5	100685.27747953
ontime6	100682.03646931
ontime7	100685.27747953
ontime8	100685.27745959
ontime9	100682.03647932
l1events	4964796

2.1.4 Events

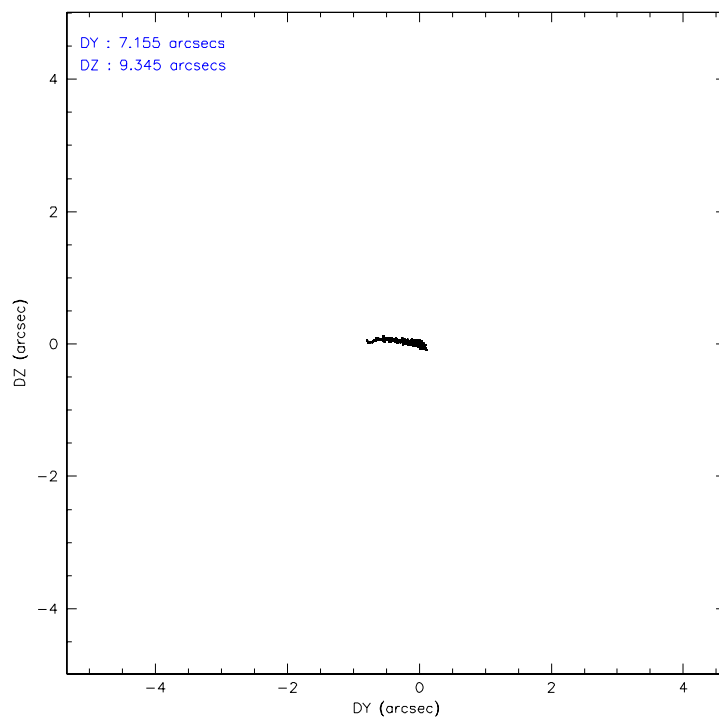
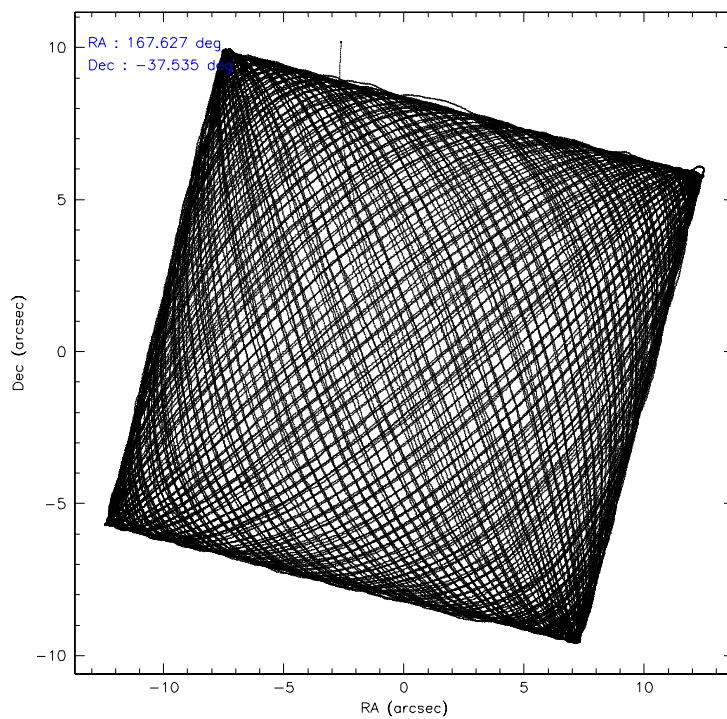
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	787160	1045318	679237	921555	855728	675798
rejected events	682609	579446	600346	572096	676449	592832
rejected %	86%	55%	88%	62%	79%	87%

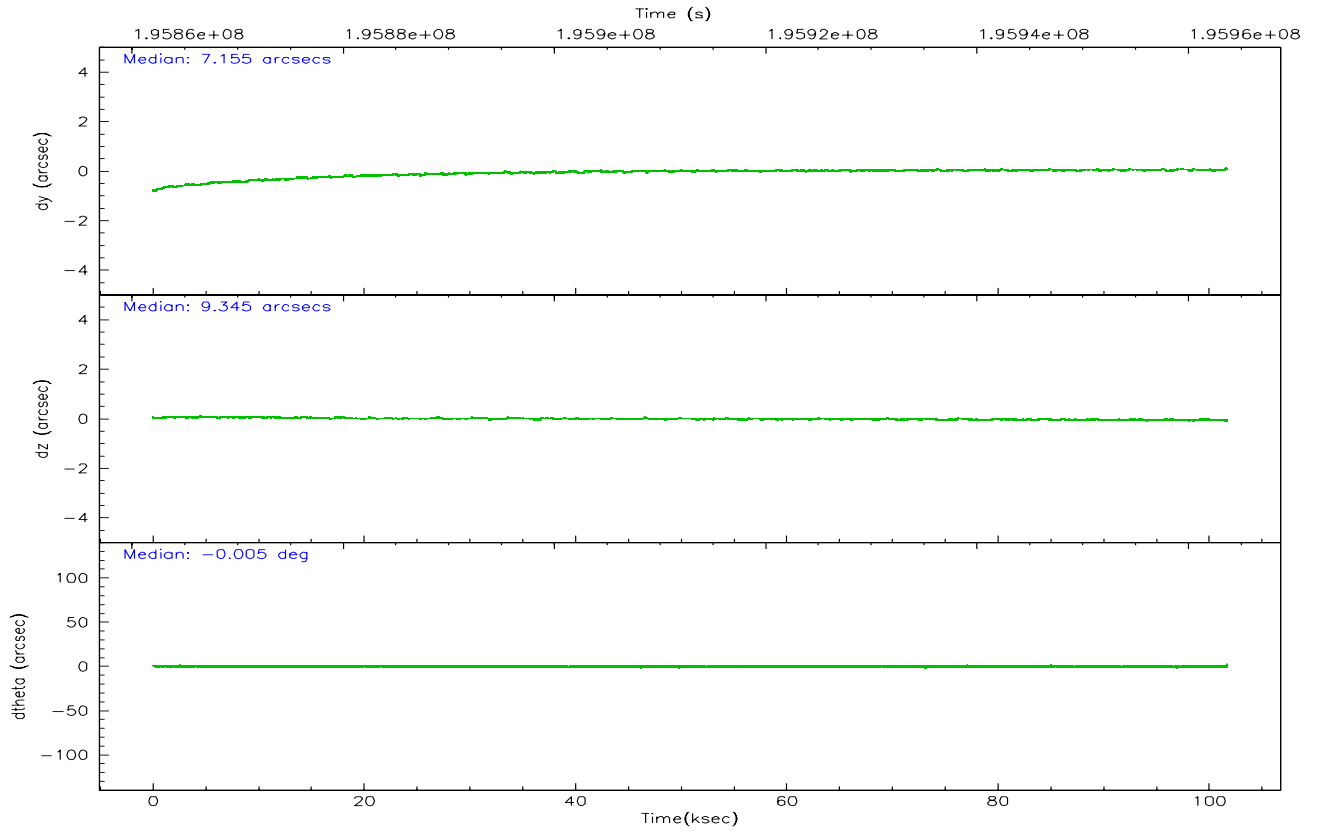
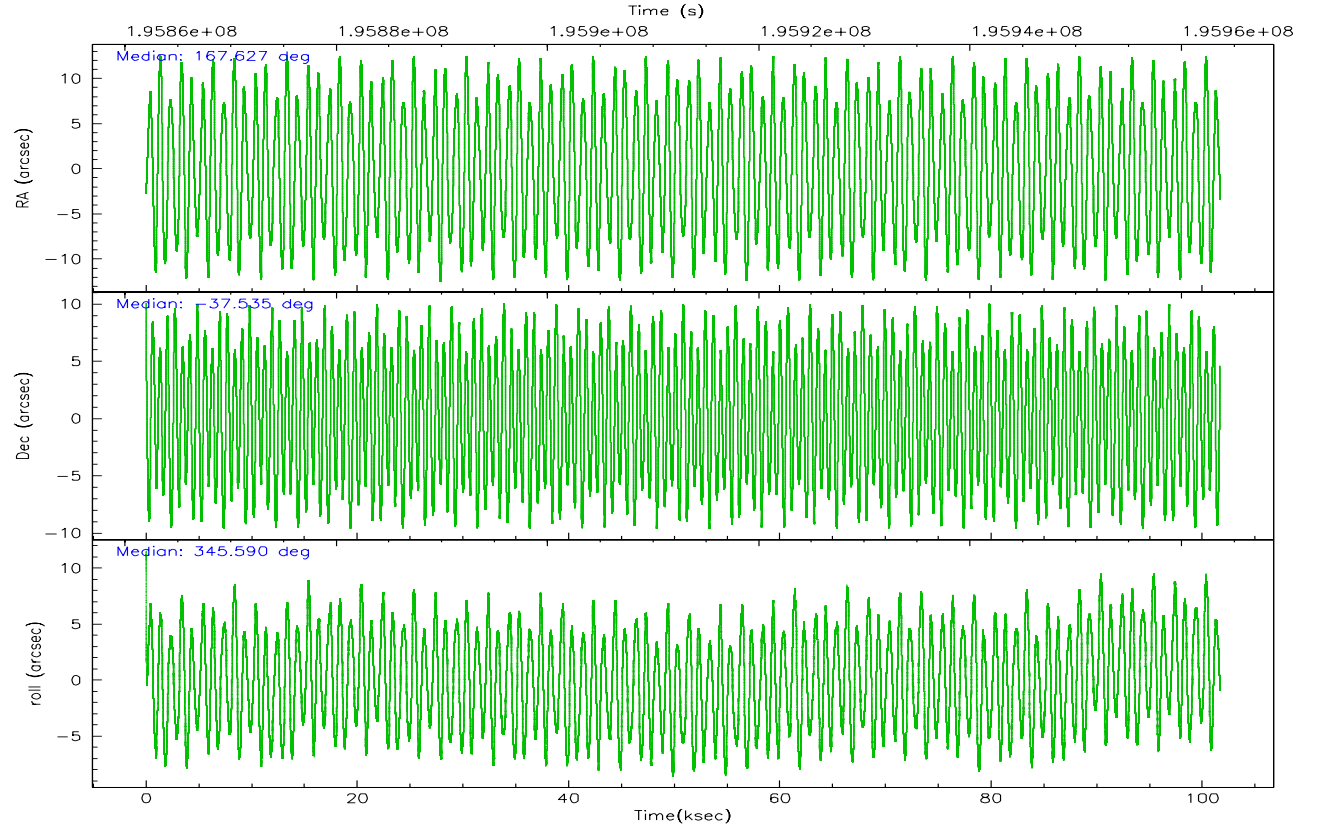
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	57064	53528	30585	19175	55912	34835
	7%	5%	4%	2%	6%	5%
grade 1 events	732	820	325	610	540	410
	0%	0%	0%	0%	0%	0%
grade 2 events	17475	140652	16527	86304	39688	15912
	2%	13%	2%	9%	4%	2%
grade 3 events	8776	9508	7736	18067	18920	8276
	1%	0%	1%	1%	2%	1%
grade 4 events	8220	8867	7700	17470	17908	7899
	1%	0%	1%	1%	2%	1%
grade 5 events	30648	49468	31576	61989	41260	33446
	3%	4%	4%	6%	4%	4%
grade 6 events	13020	253349	16349	208466	46864	16048
	1%	24%	2%	22%	5%	2%
grade 7 events	651225	529126	568439	509474	634636	558972
	82%	50%	83%	55%	74%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	167.594400	167.6273311949309	Alternating exposures requested	N	N
Pointing Dec	-37.542799	-37.53512011621496	Primary exposure time	0.000000	3.2
Pointing Roll	345.421082	345.5977751713053			
Roll angle	140.000000	140.000000			
Roll tolerance	45.000000	45.000000			
Roll constraint allows 180D rotation	Y	Y			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	195862967.184000	195861613.27213			
Observation start date	2004-03-16T22:21:43	2004-03-16T22:00:13			
Observation end time	195963692.184000	195964245.50164			
Observation end date	2004-03-18T02:20:28	2004-03-18T02:30:45			
Read mode	TIMED	TIMED			

2.3 Aspect



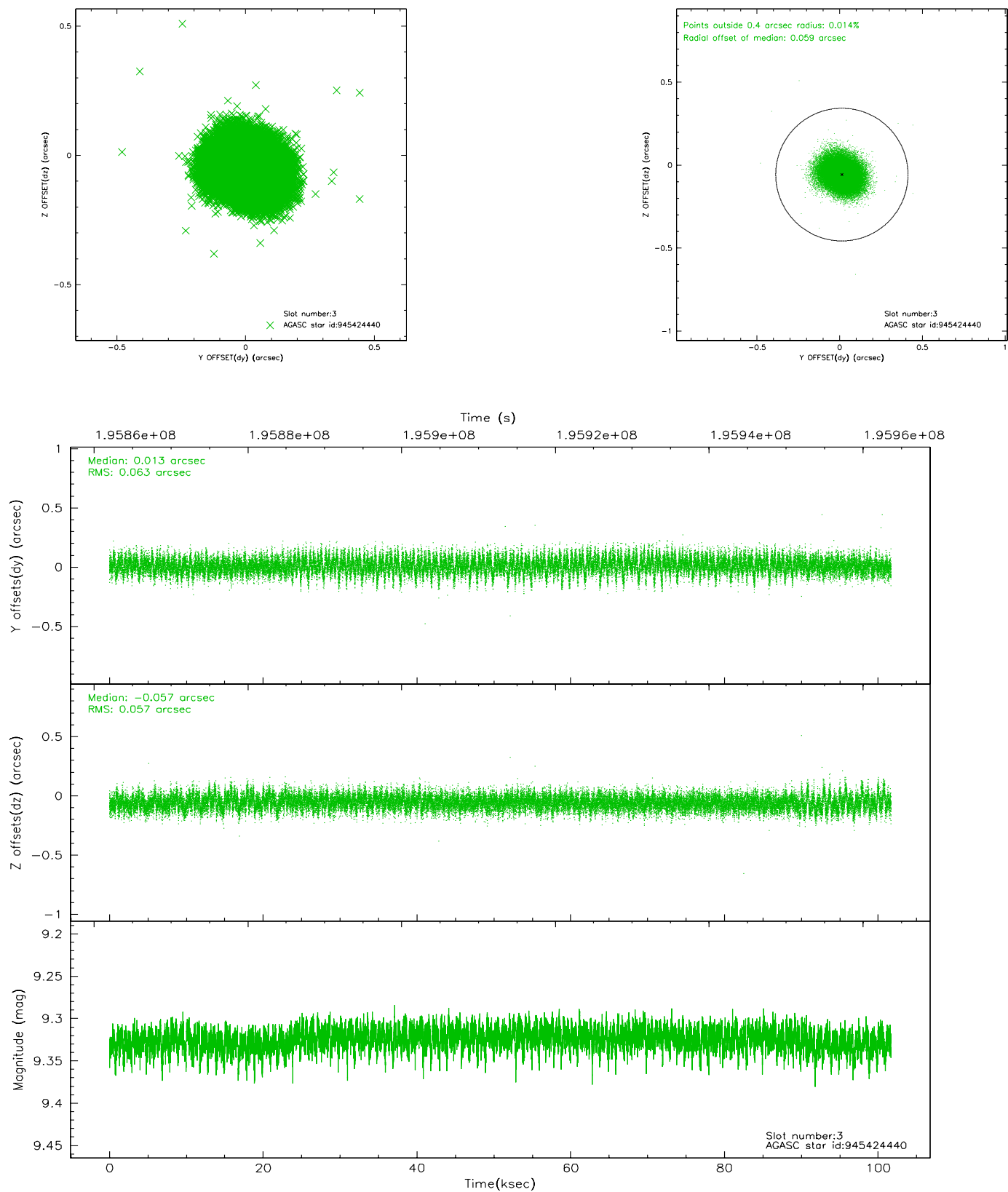


Slot Statistics

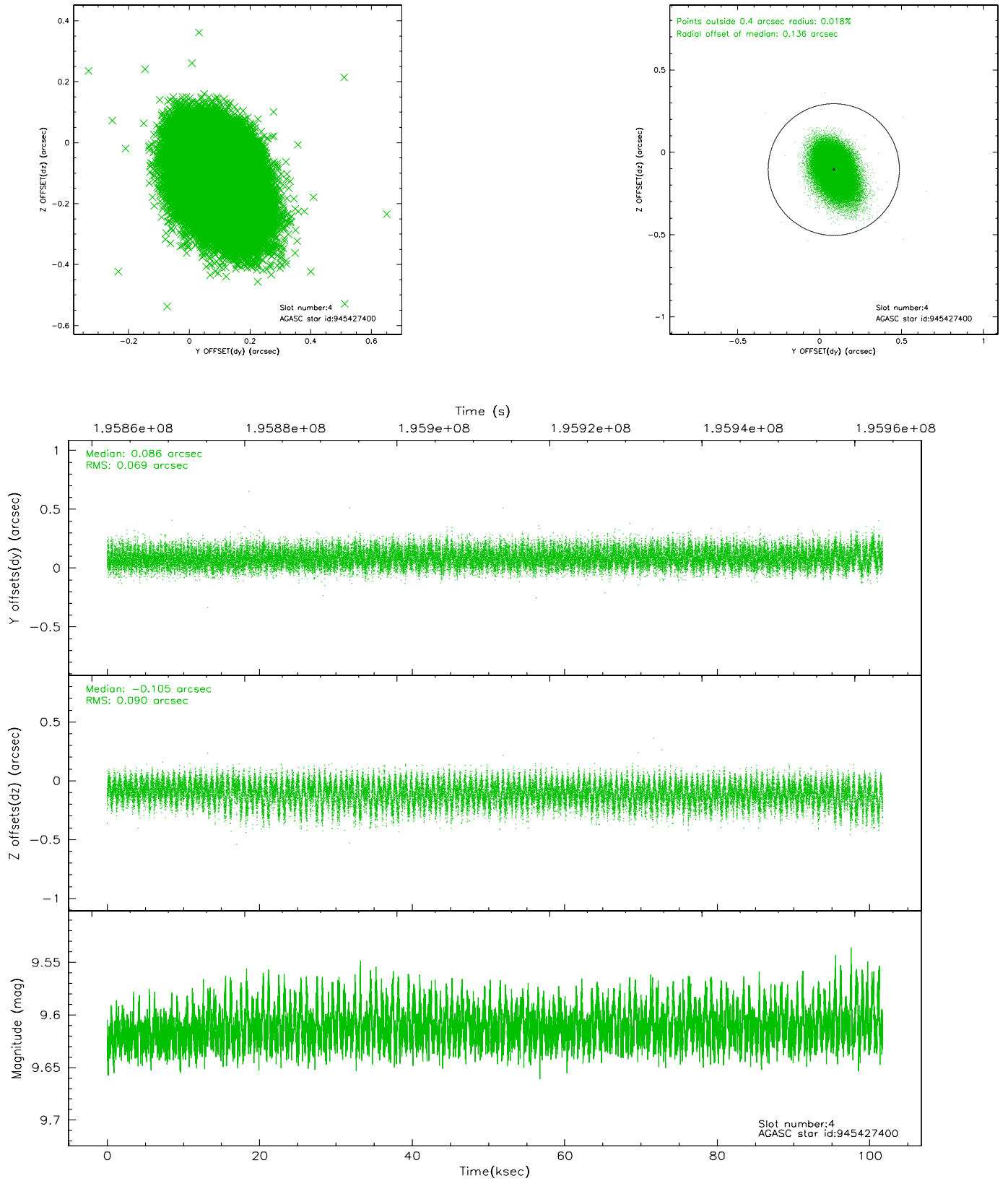
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	24802	-0.023	-0.006	0.009	0.021	0.000000	0.000000	-759.83	-1730.59
1	FID	ACIS-S-4	7.20	24803	0.022	0.013	0.007	0.027	0.000000	0.000000	2153.51	178.04
2	FID	ACIS-S-5	7.23	24804	-0.031	0.002	0.007	0.014	0.000000	0.000000	-1812.82	171.55
3	GUIDE	945424440	9.32	49574	0.013	-0.057	0.090	0.149	167.538860	-37.381543	-299.74	521.96
4	GUIDE	945427400	9.61	49575	0.086	-0.105	0.119	0.197	167.436818	-36.964684	-962.48	1899.69
5	GUIDE	945428440	8.93	49520	-0.079	-0.004	0.079	0.124	168.181474	-37.381721	1480.62	979.37
6	GUIDE	945429720	9.44	49512	0.004	-0.006	0.107	0.181	167.566128	-37.073280	-504.03	1615.60
7	GUIDE	1012670568	8.75	49585	-0.032	0.177	0.078	0.128	167.520224	-38.105063	306.73	-2011.58

2.4 Star Slots

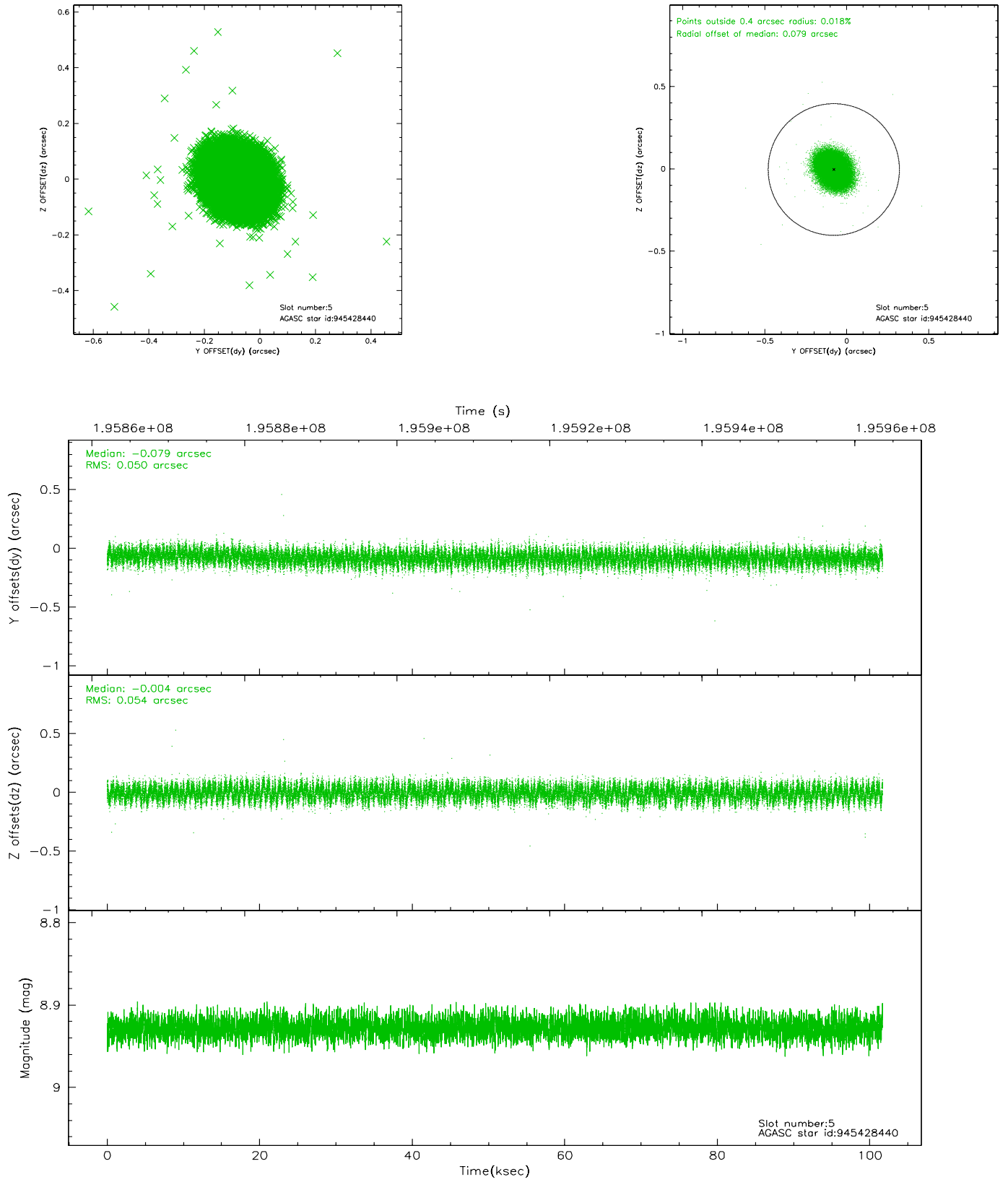
2.4.1 Slot 3



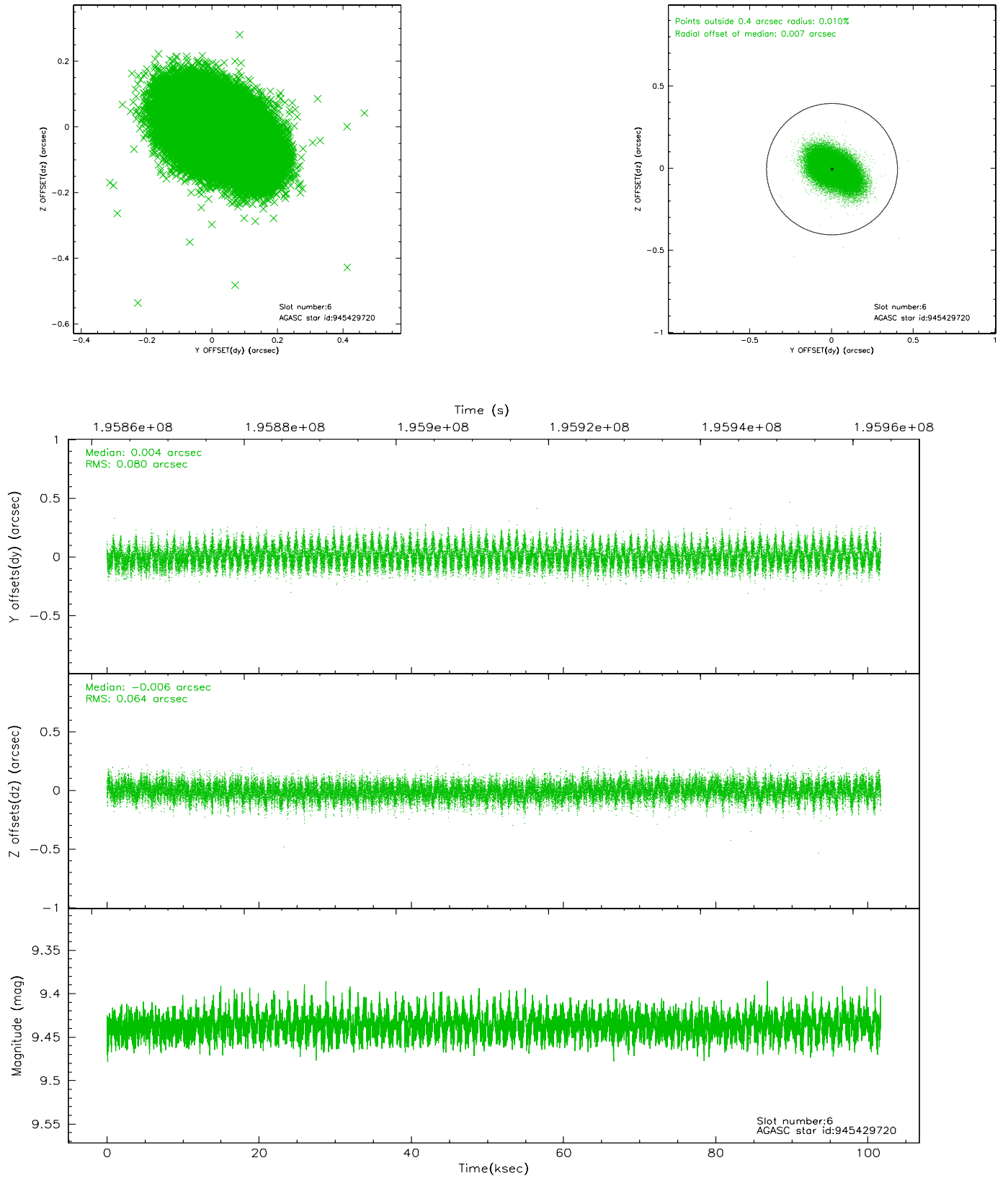
2.4.2 Slot 4



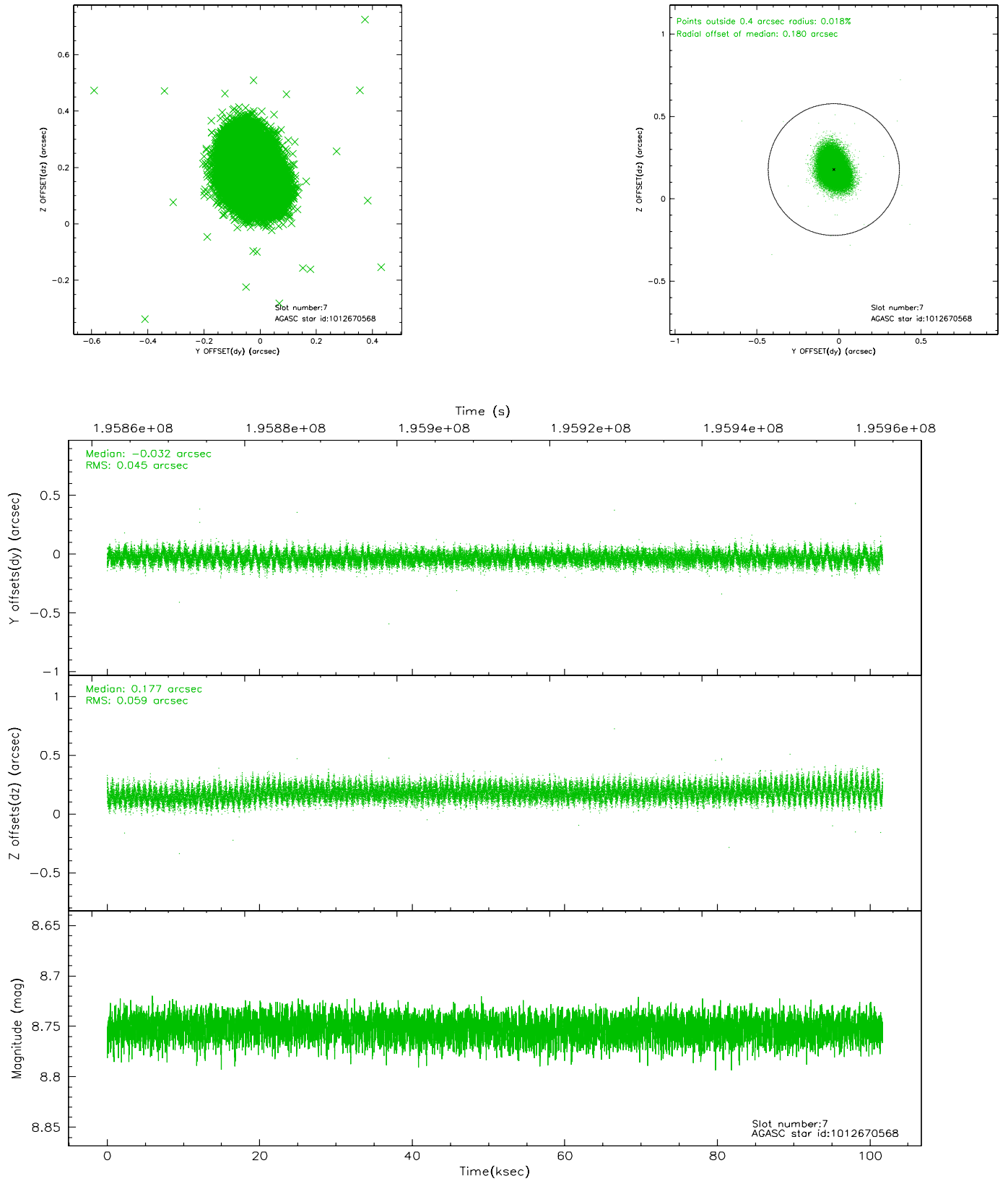
2.4.3 Slot 5



2.4.4 Slot 6

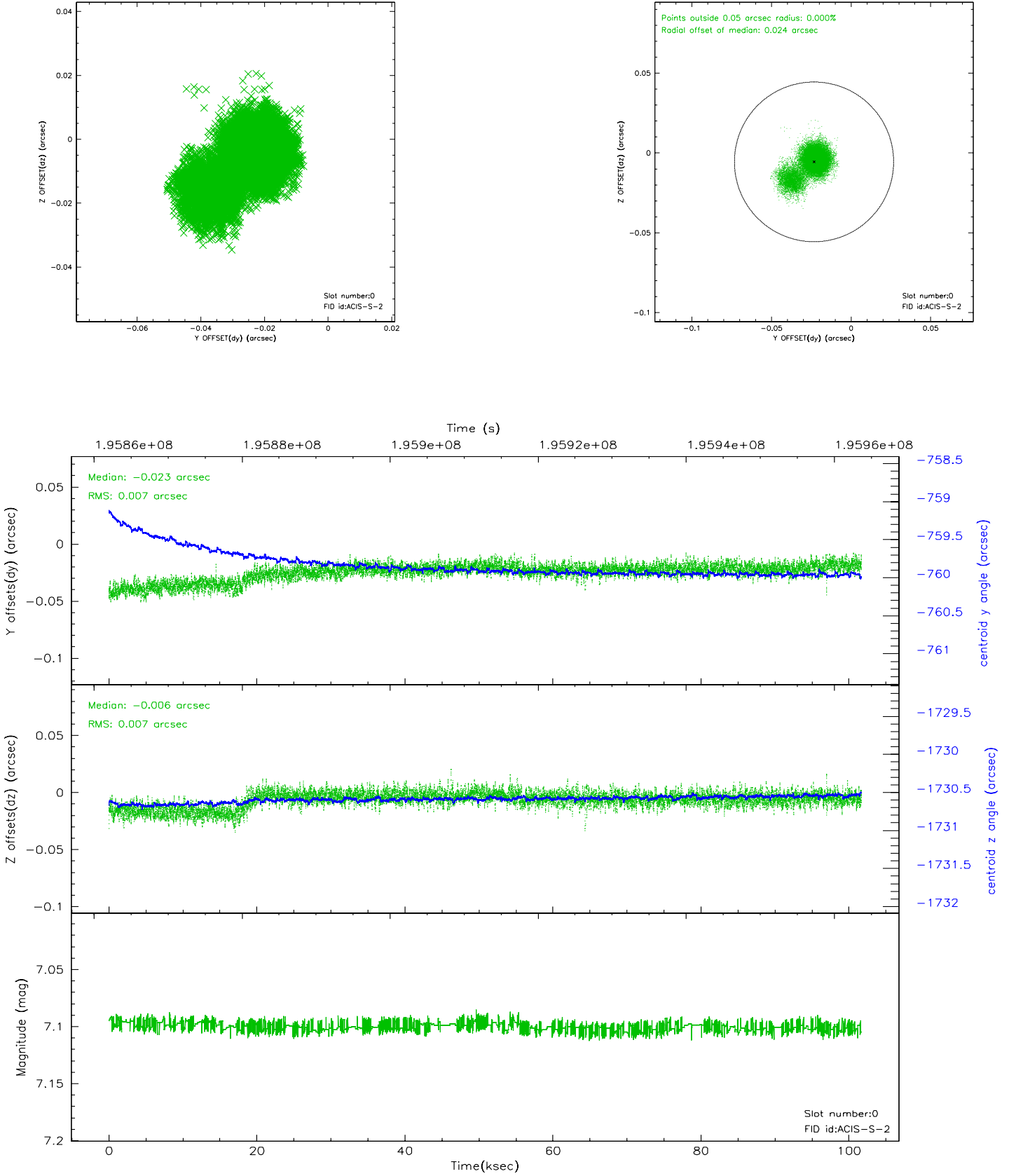


2.4.5 Slot 7

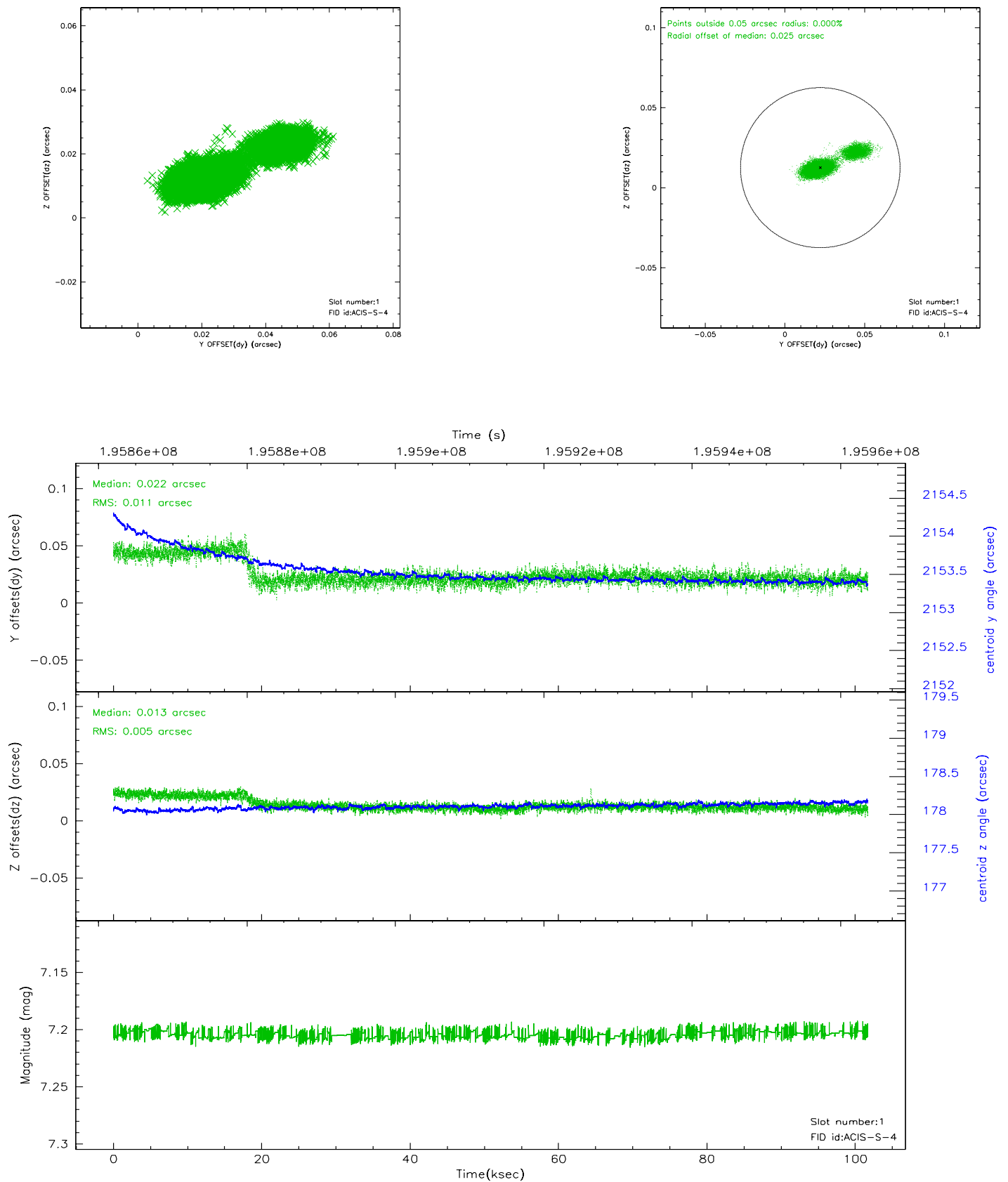


2.5 FID Slots

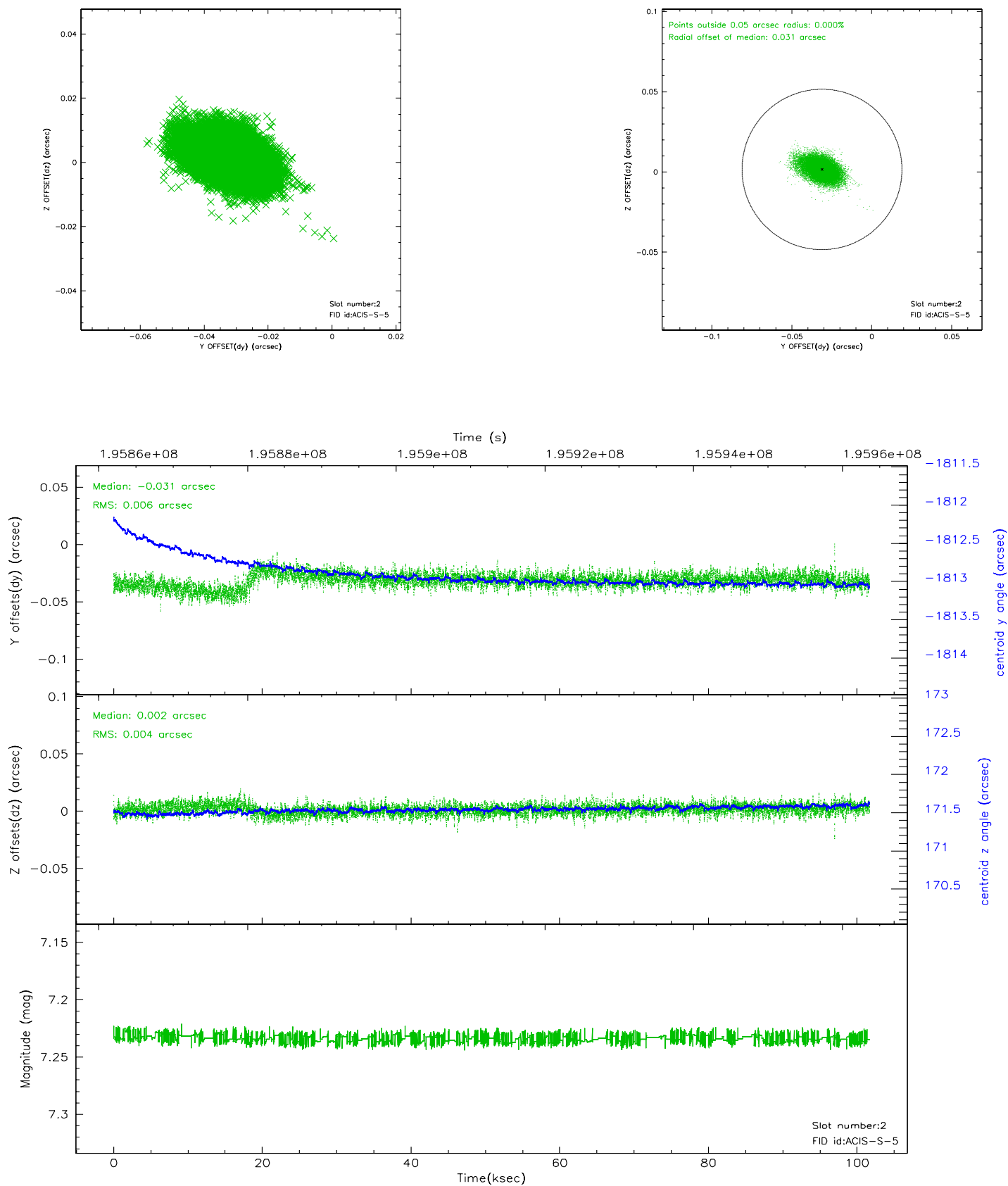
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

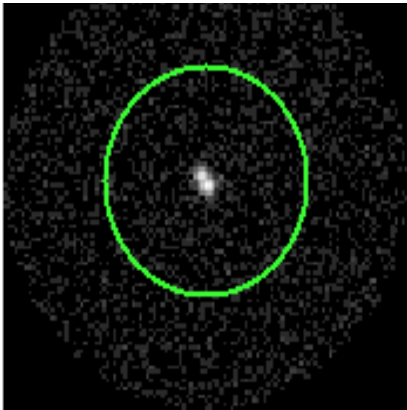


3 Gratings

3.1 HEG Arm



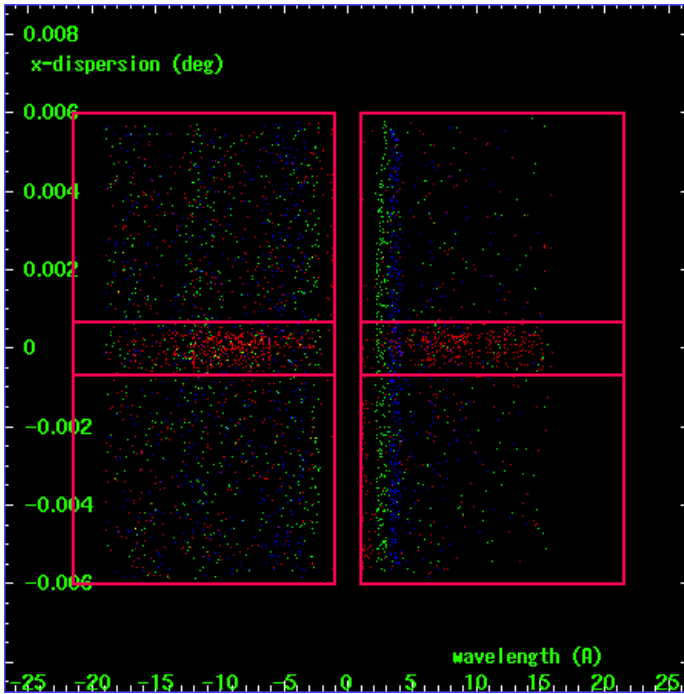
HEG Order Sort 123



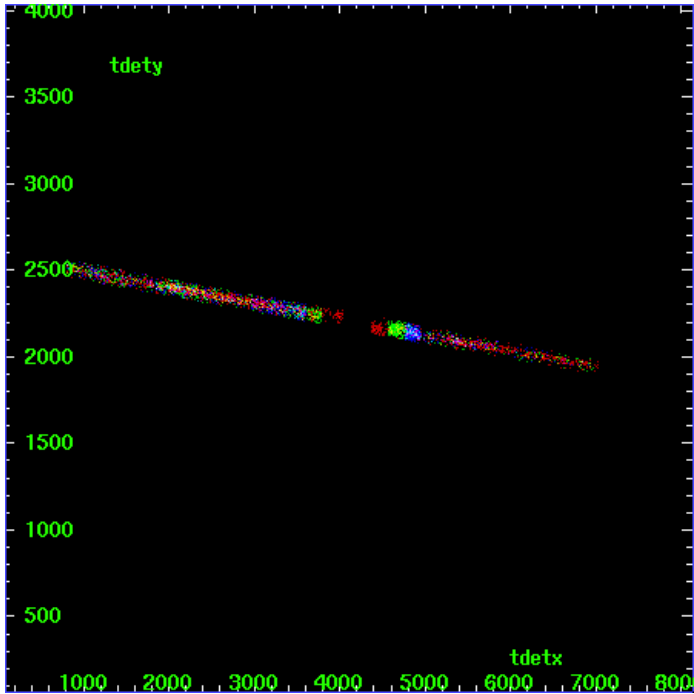
HEG Zero Order



HEG Order Sort ALL

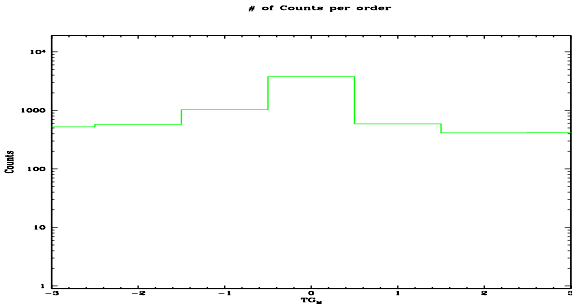


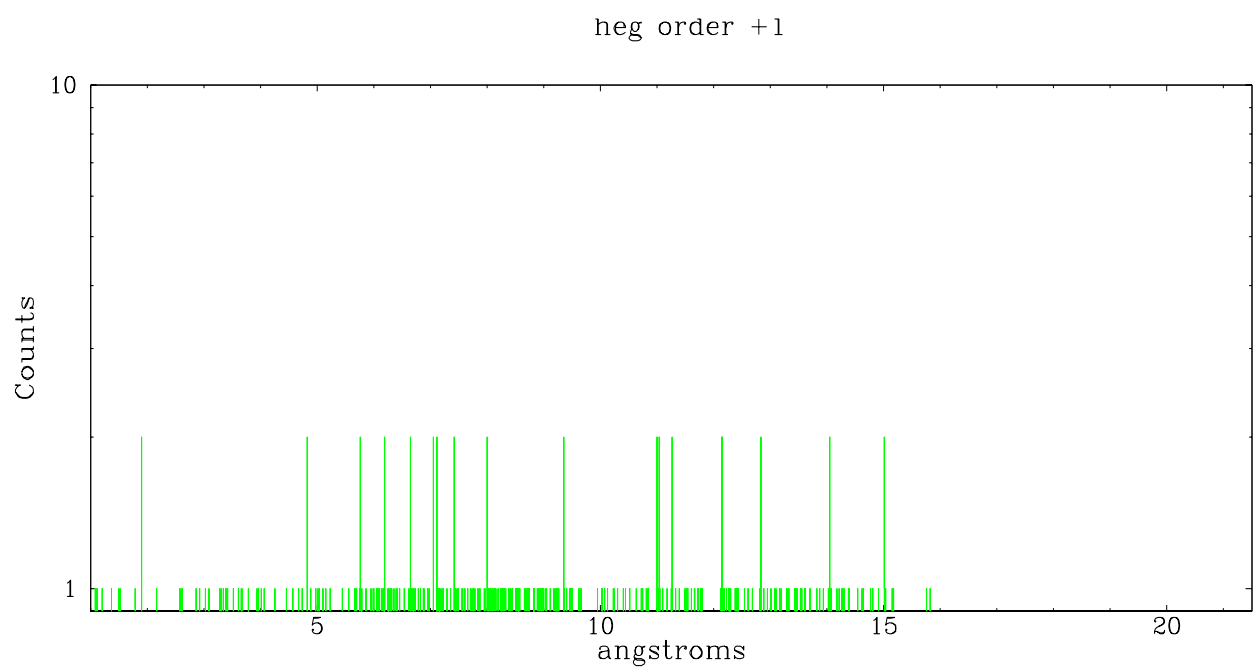
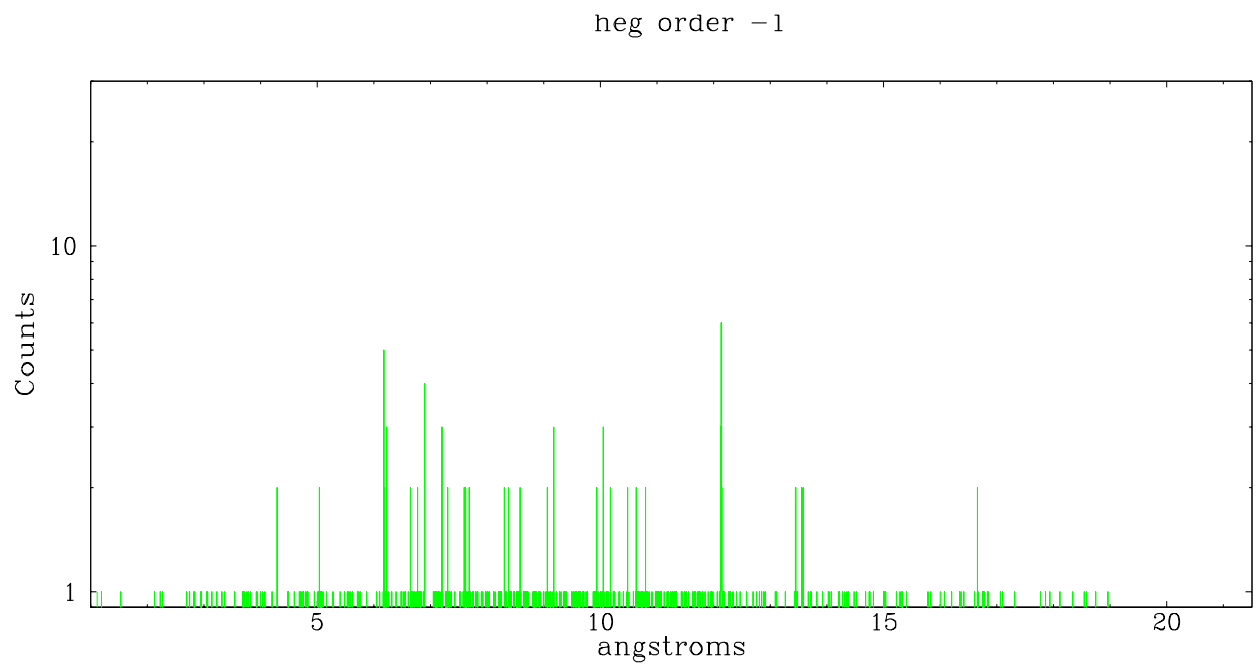
Spot Image HEG



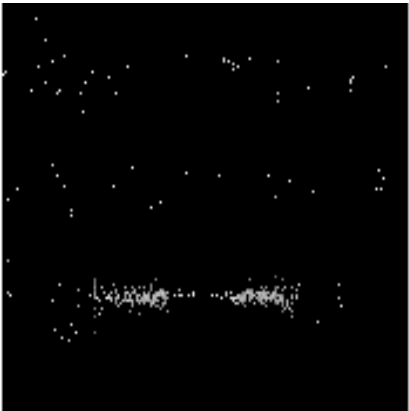
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	524	575	1026	3788	587	415	417

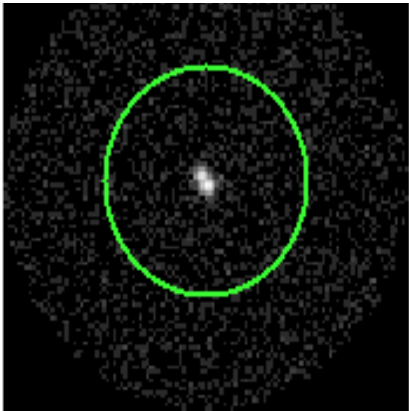




3.2 MEG Arm



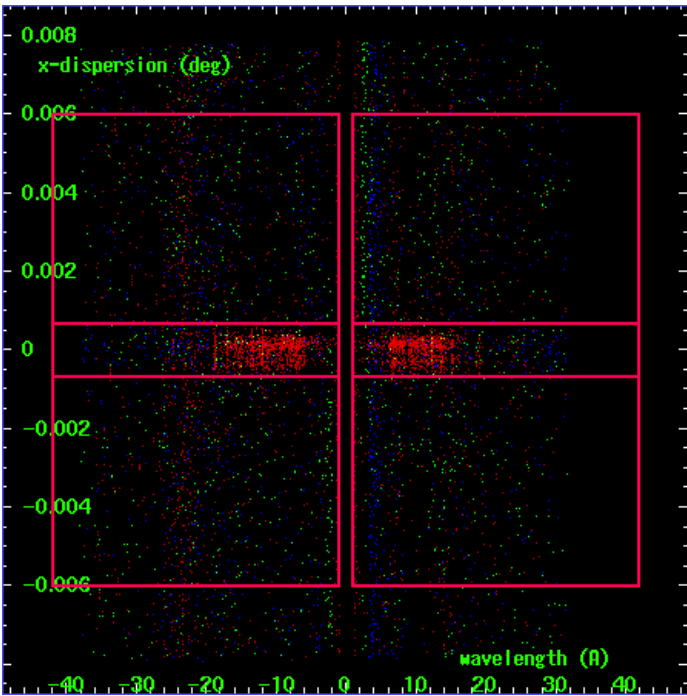
MEG Order Sort 123



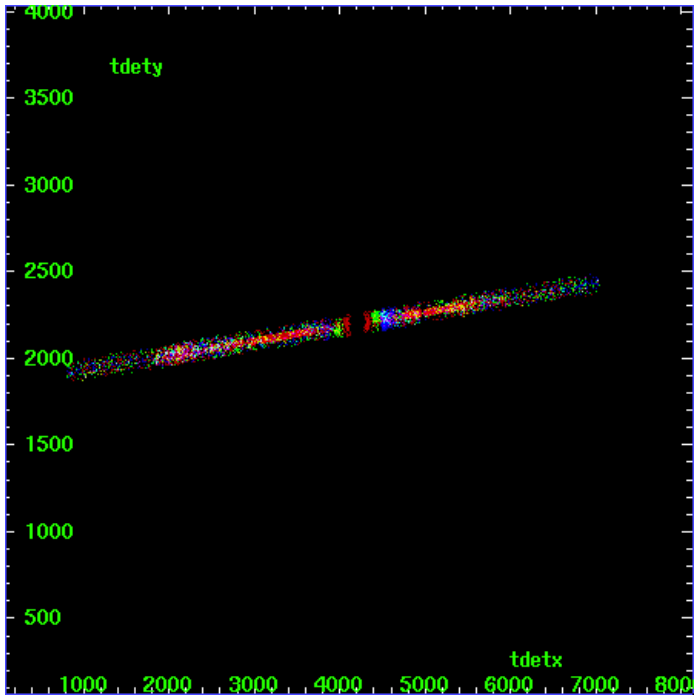
MEG Zero Order



MEG Order Sort ALL

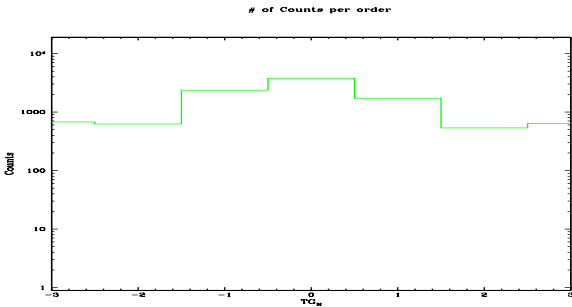


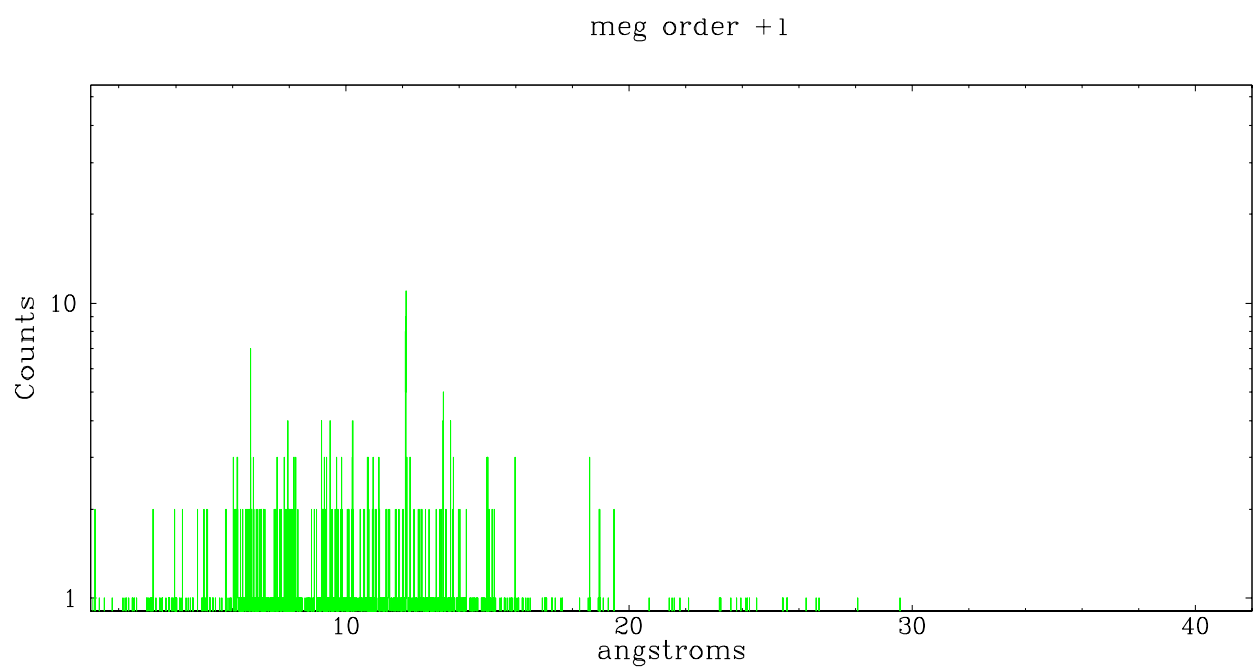
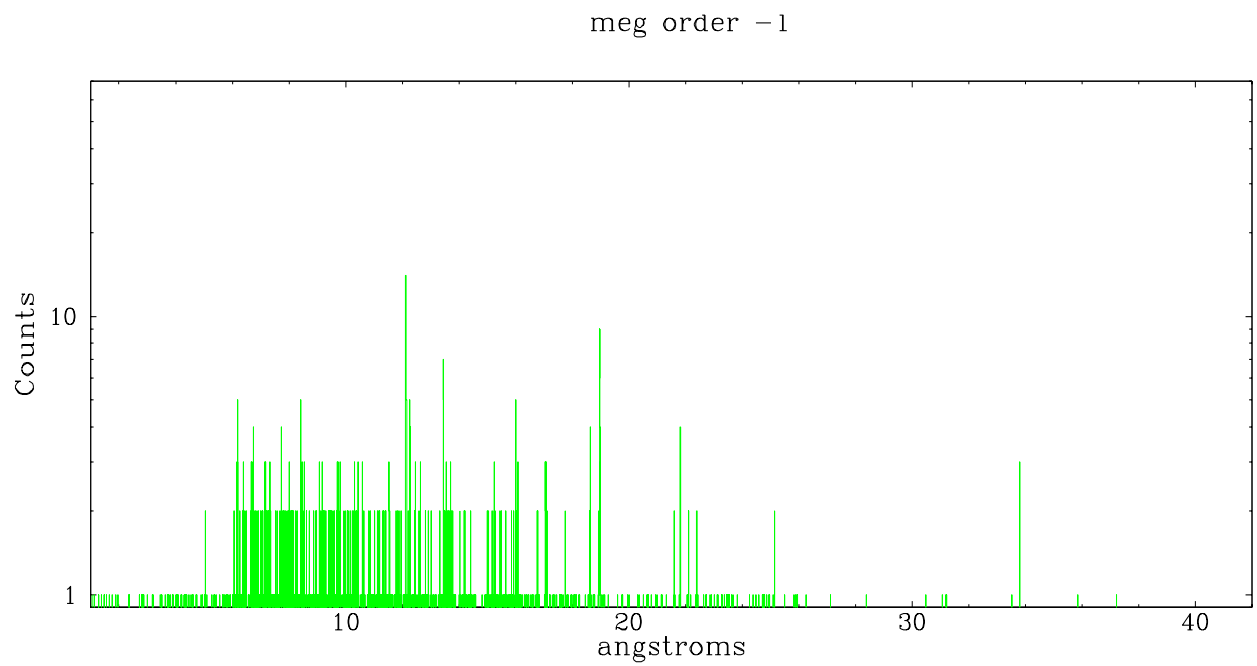
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	675	624	2367	3788	1720	536	637





A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.05.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	100.684

A.2 Comments

Roll constraint satisfied.