

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 1910 - L2 Version 001
Chandra X-Ray Center

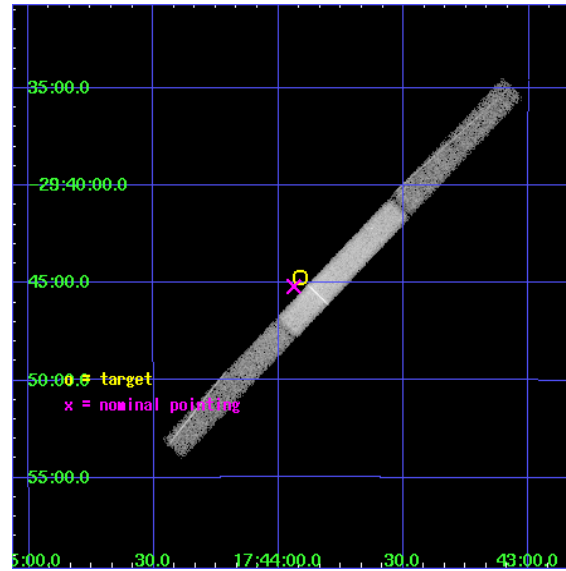
L2 Processing Date : Dec 8 2006

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1 Front

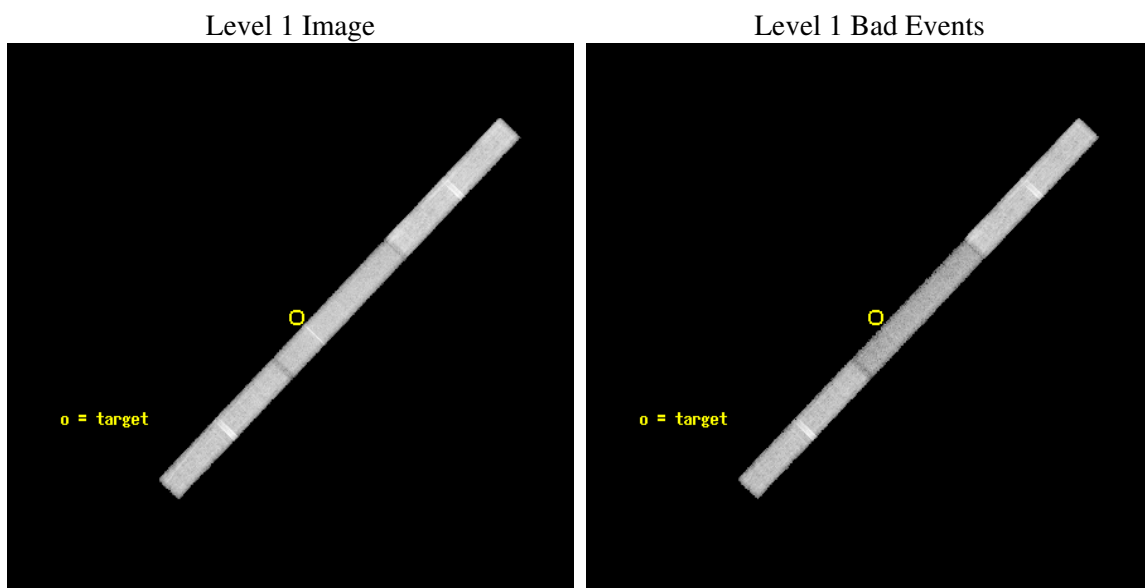
seq_num	400123
obs_id	1910
title	DOPPLER-SHIFTED EMISSION LINES FROM THE JETS OF 1E1740.7-2942?
observer	Dr. Wei Cui
object	1E1740.7-2942
dtcycle	0
cycle	P
ra_targ	265.978333
dec_targ	-29.745167
ra_nom	265.9845280686
dec_nom	-29.75332096307
roll_nom	313.7037328967
revision	2
ontime	64571.999358535
livetime	60438.037587547
ontime6	64571.999358535
ontime7	64571.999358535
ontime8	64571.999358535
l2events	67062



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 6

Chip 7

Chip 8



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.4
date	2006-12-08T14:20:49
revision	2

sched_exp_time	64000.000000
ontime	64628.230981693
ontime6	64628.230981693
ontime7	64628.230981693
ontime8	64628.230981693
l1events	329221

2.1.4 Events

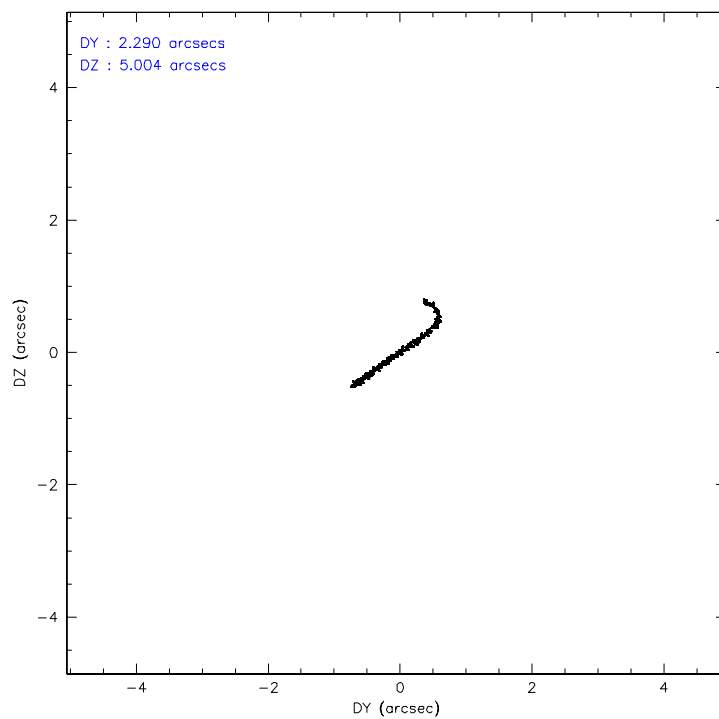
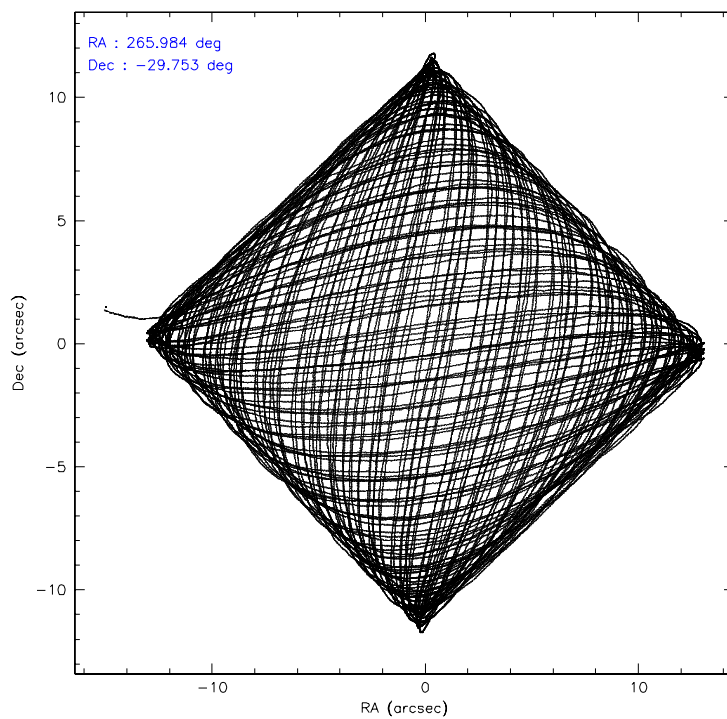
	ccd 6	ccd 7	ccd 8
level 1 events	101633	95212	132376
rejected events	87256	48978	109884
rejected %	85%	51%	83%

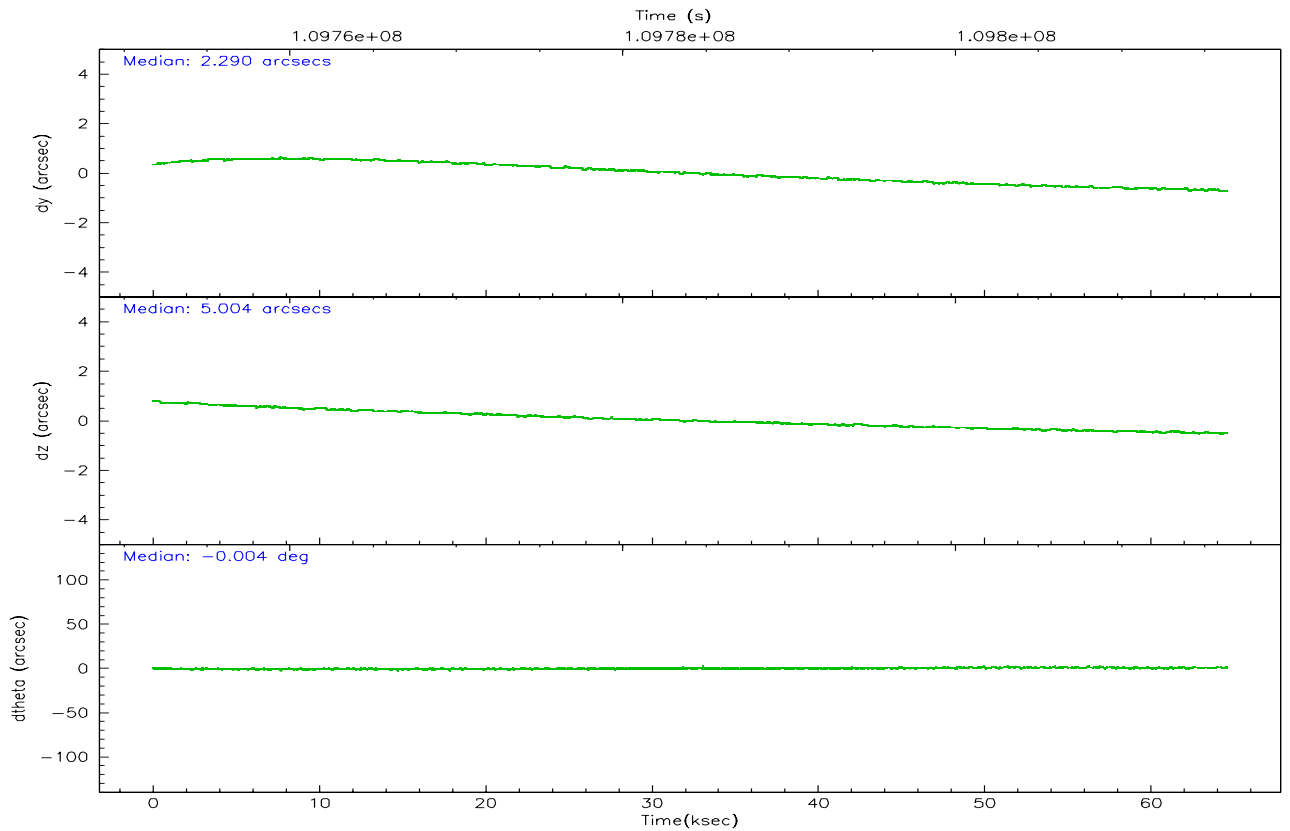
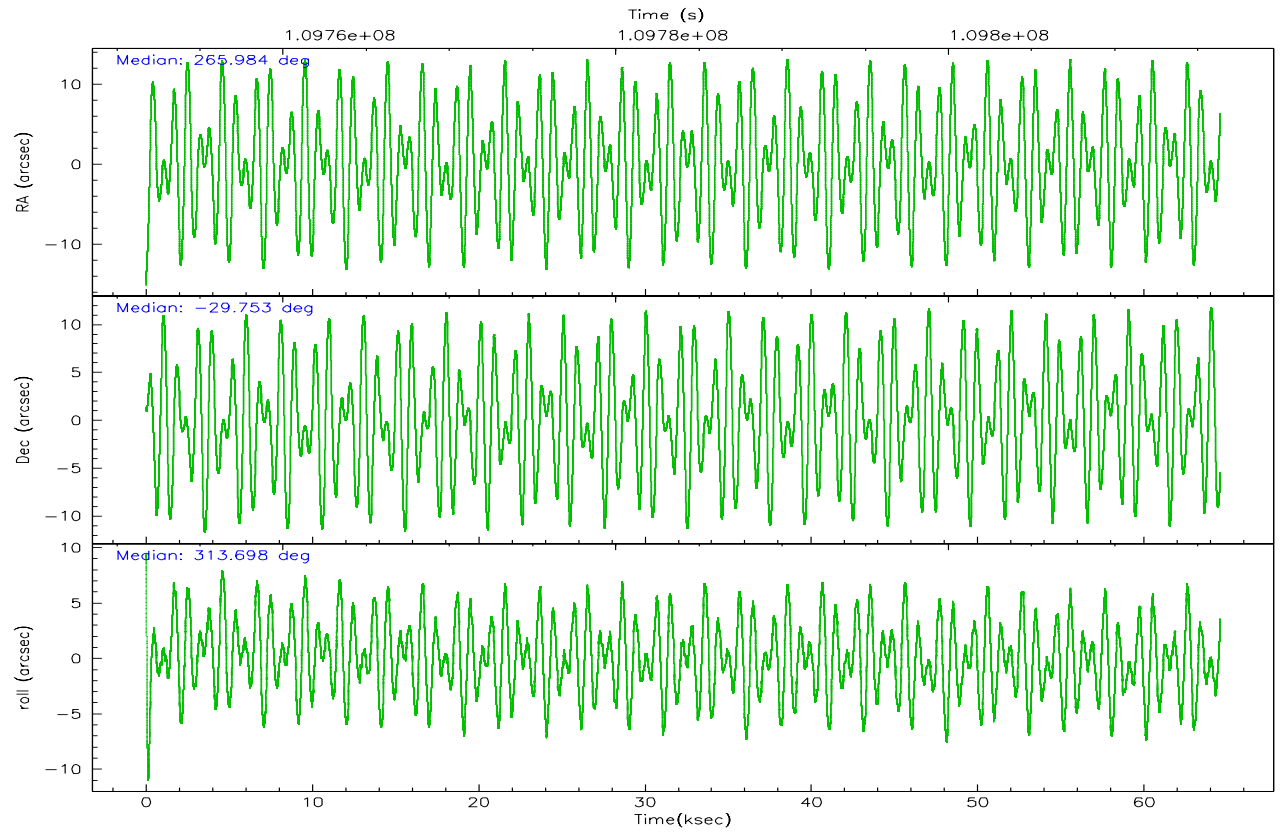
	ccd 6	ccd 7	ccd 8
grade 0 events	6073	4643	6453
	5%	4%	4%
grade 1 events	21	68	39
	0%	0%	0%
grade 2 events	2232	10346	4114
	2%	10%	3%
grade 3 events	1971	4471	2901
	1%	4%	2%
grade 4 events	2029	4410	2695
	1%	4%	2%
grade 5 events	2535	6577	3360
	2%	6%	2%
grade 6 events	2087	22399	6341
	2%	23%	4%
grade 7 events	84685	42298	106473
	83%	44%	80%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-678	ACIS-678	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
Pointing RA	265.954276	265.9845280686044	Subarray requested	CUSTOM	CUSTOM
Pointing Dec	-29.745928	-29.75332096306989	Subarray start row	258	258
Pointing Roll	313.532084	313.703732896703	Subarray row count	150	150
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	0.6
SIM translation stage pos (mm)	-182.132523	-182.1370004450064			
SIM translation stage offset (mm)	-8	-7.995522138001405			
Observation start time	109752334.184000	109751180.83397			
Observation start date	2001-06-24T06:44:30	2001-06-24T06:26:20			
Observation end time	109816334.184000	109816785.44903			
Observation end date	2001-06-25T00:31:10	2001-06-25T00:39:45			
Read mode	TIMED	TIMED			

2.3 Aspect



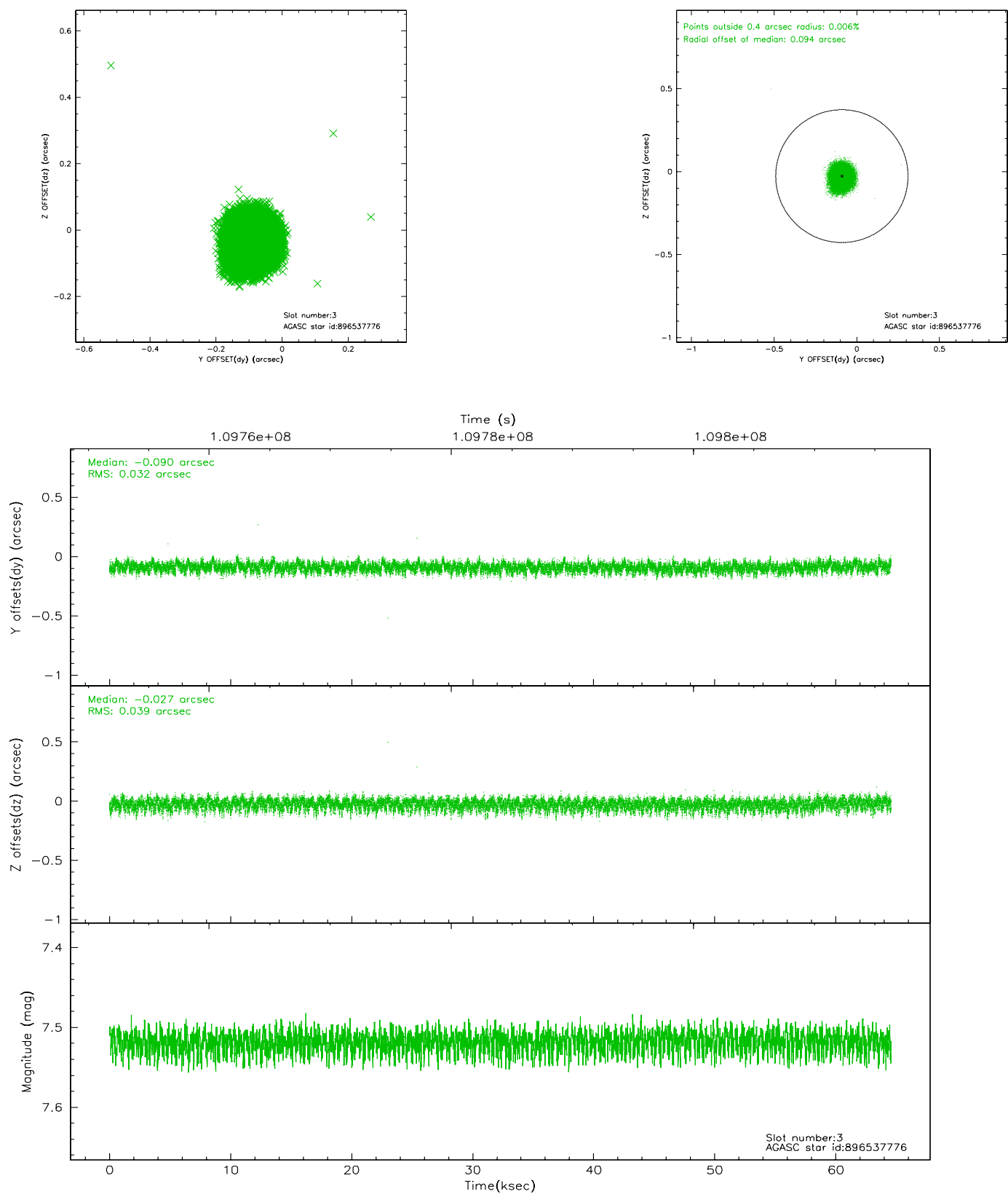


Slot Statistics

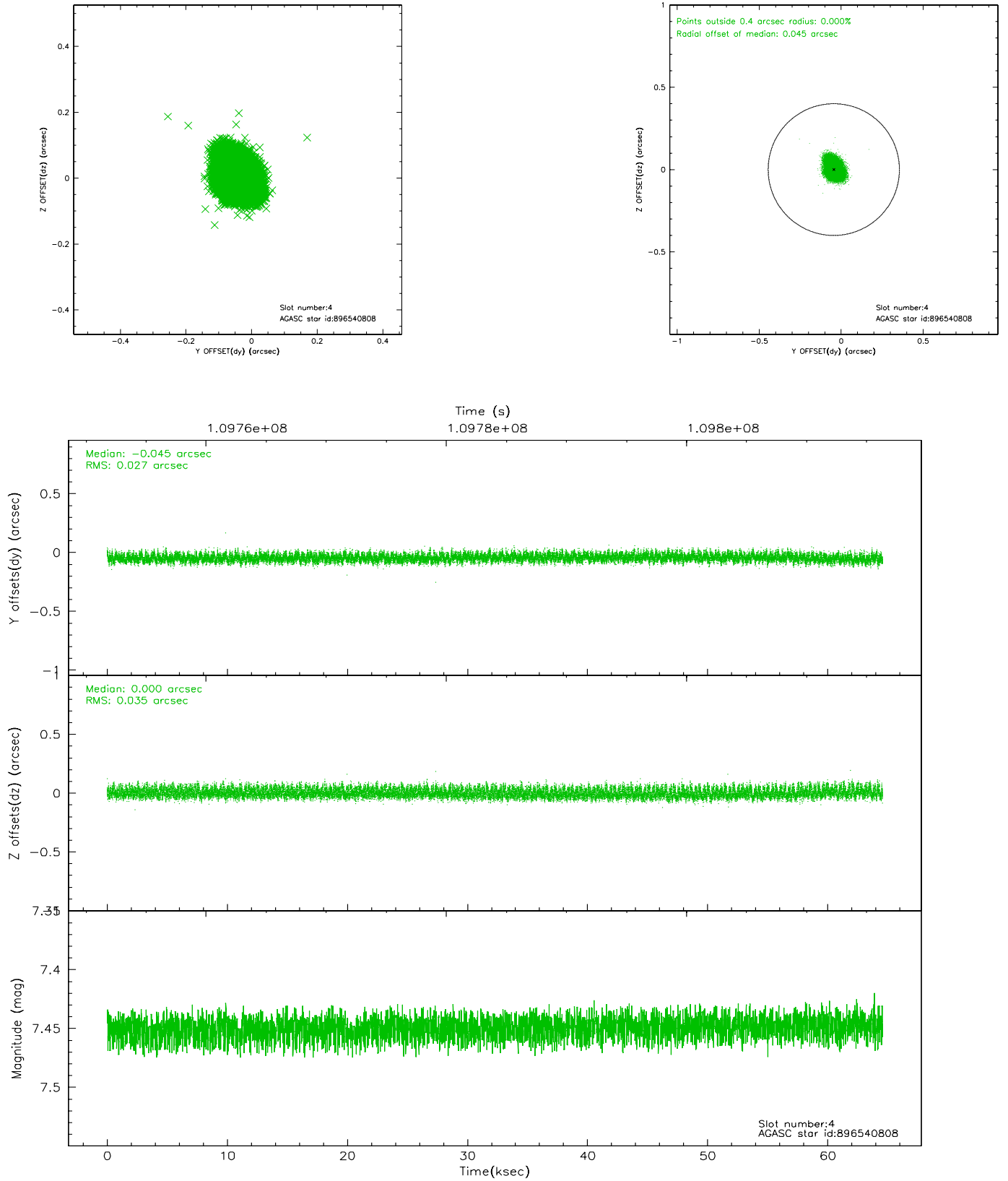
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	15749	-0.048	-0.055	0.009	0.023	0.000000	0.000000	-754.39	-1890.93
1	FID	ACIS-S-4	7.18	15749	0.004	0.037	0.008	0.038	0.000000	0.000000	2158.97	17.67
2	FID	ACIS-S-5	7.23	15748	0.011	0.026	0.009	0.026	0.000000	0.000000	-1807.23	11.28
3	GUIDE	896537776	7.52	31497	-0.090	-0.027	0.054	0.086	266.655684	-29.665673	1306.96	1785.67
4	GUIDE	896540808	7.45	31495	-0.045	0.000	0.047	0.076	265.985401	-29.308604	-1073.60	1155.62
5	GUIDE	966924920	8.09	31496	0.091	0.009	0.059	0.095	265.875401	-30.176961	956.76	-1246.21
6	GUIDE	896405480	8.24	31493	-0.003	0.091	0.054	0.085	265.220460	-29.599691	-1957.72	-1307.40
7	GUIDE	896541168	8.14	31484	0.048	-0.073	0.047	0.076	266.319970	-29.850801	1062.02	566.94

2.4 Star Slots

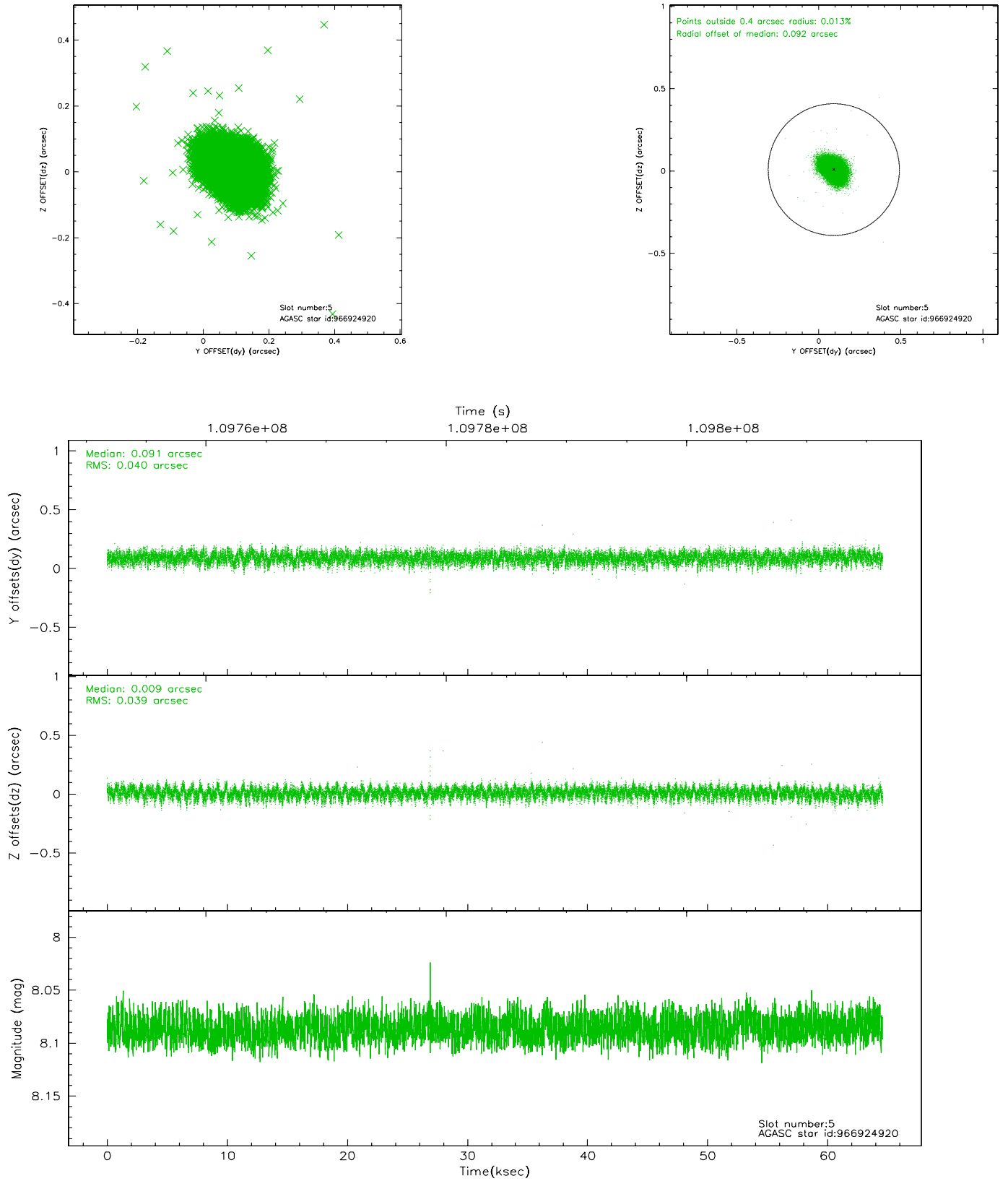
2.4.1 Slot 3



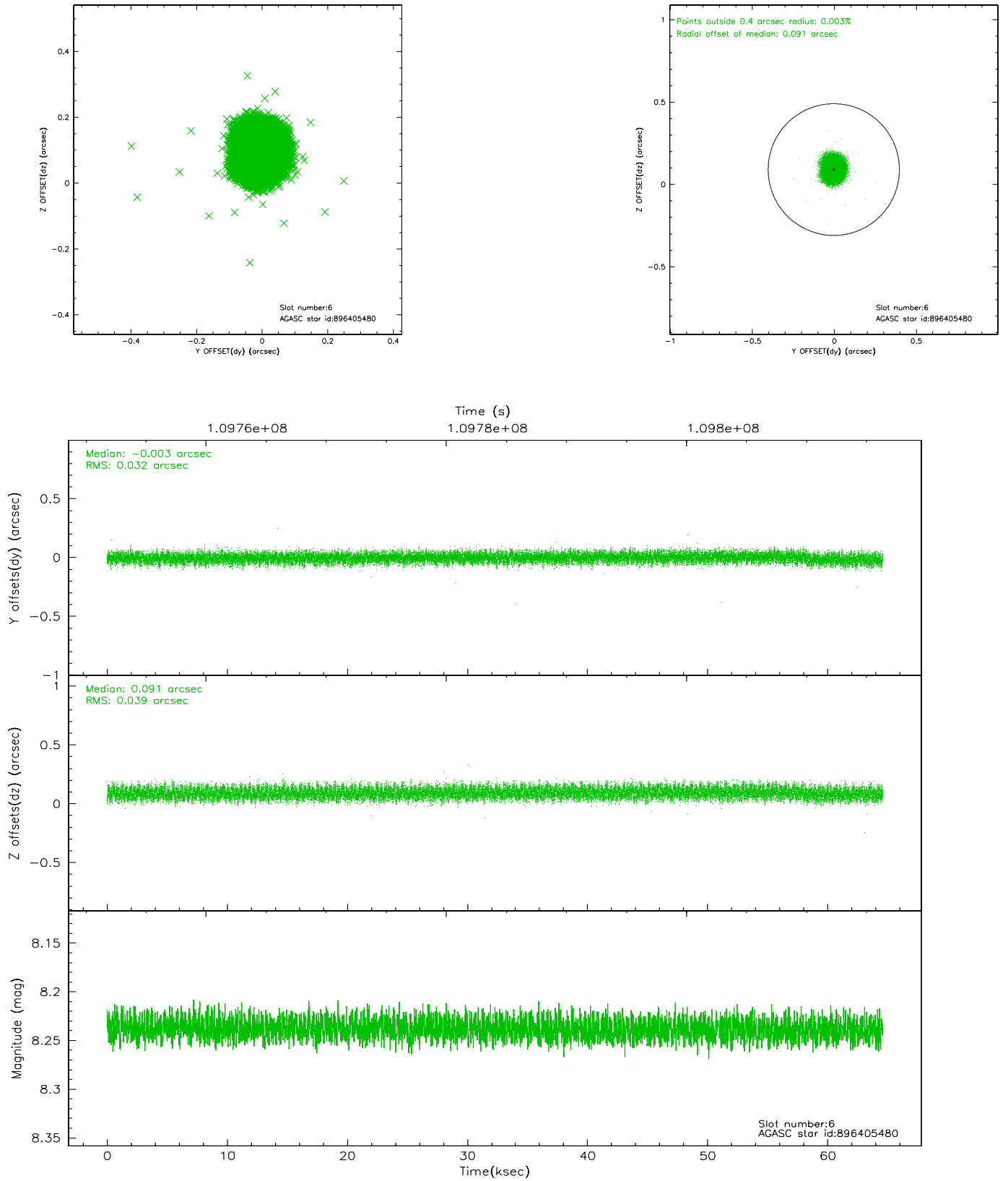
2.4.2 Slot 4



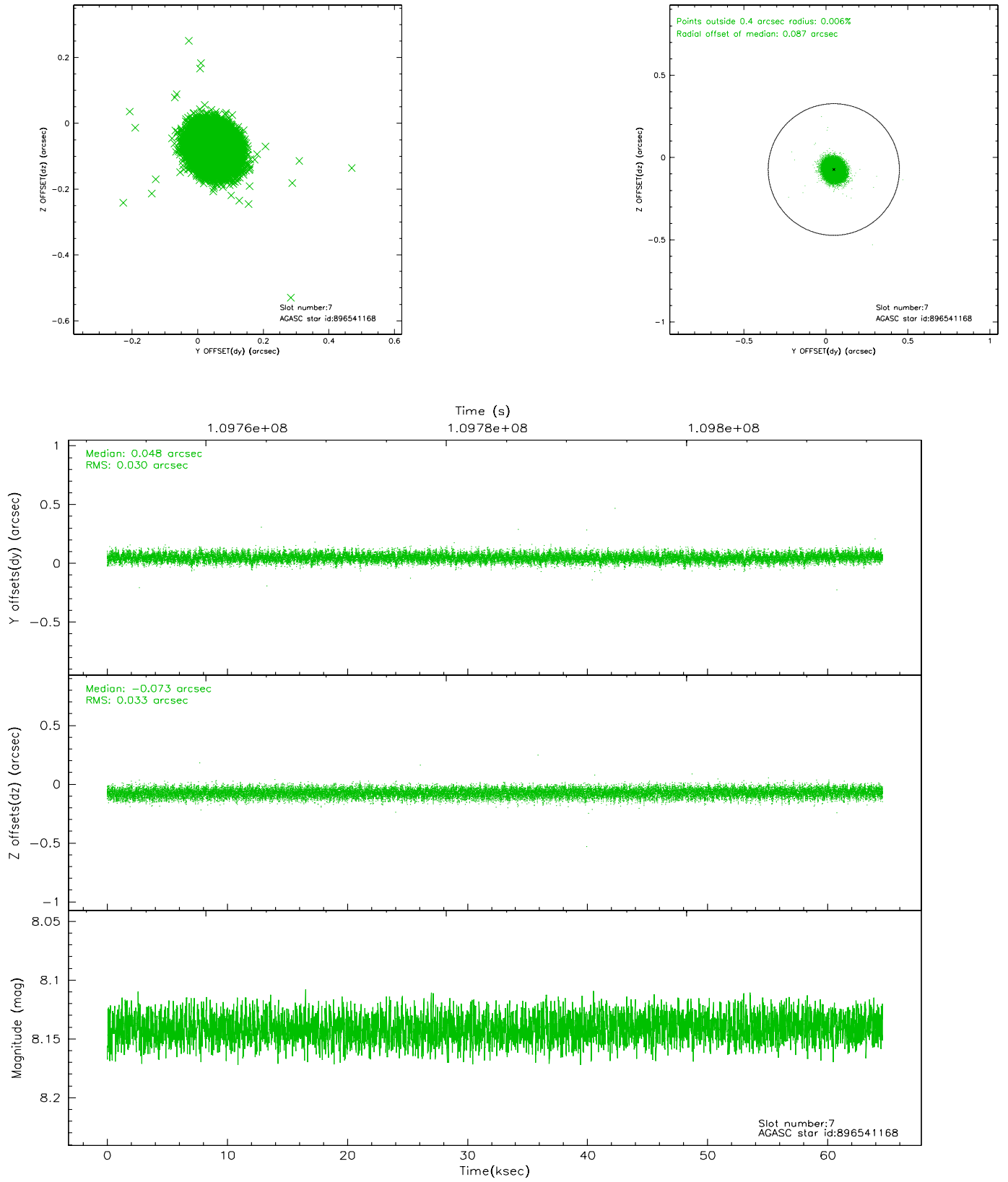
2.4.3 Slot 5



2.4.4 Slot 6

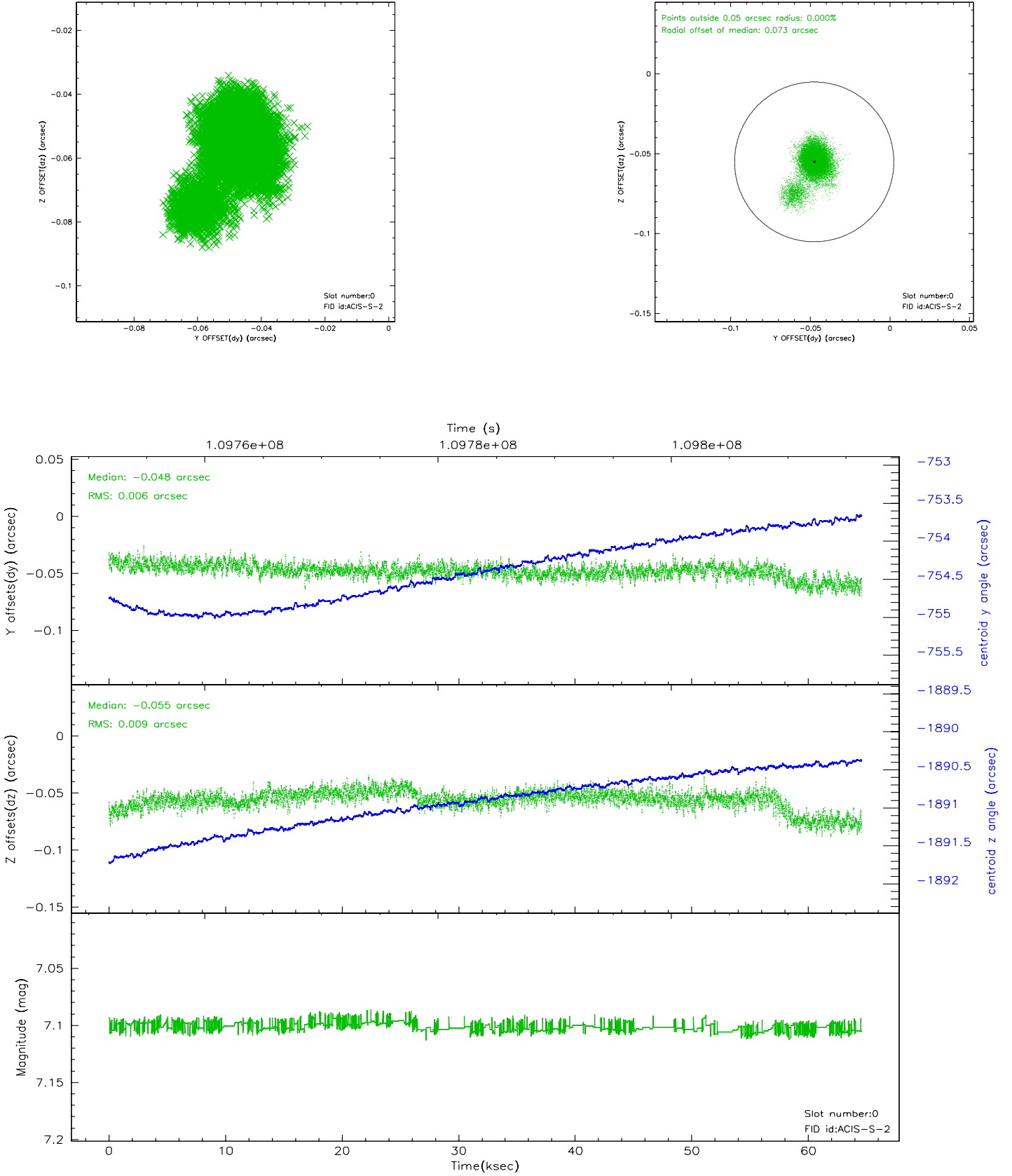


2.4.5 Slot 7

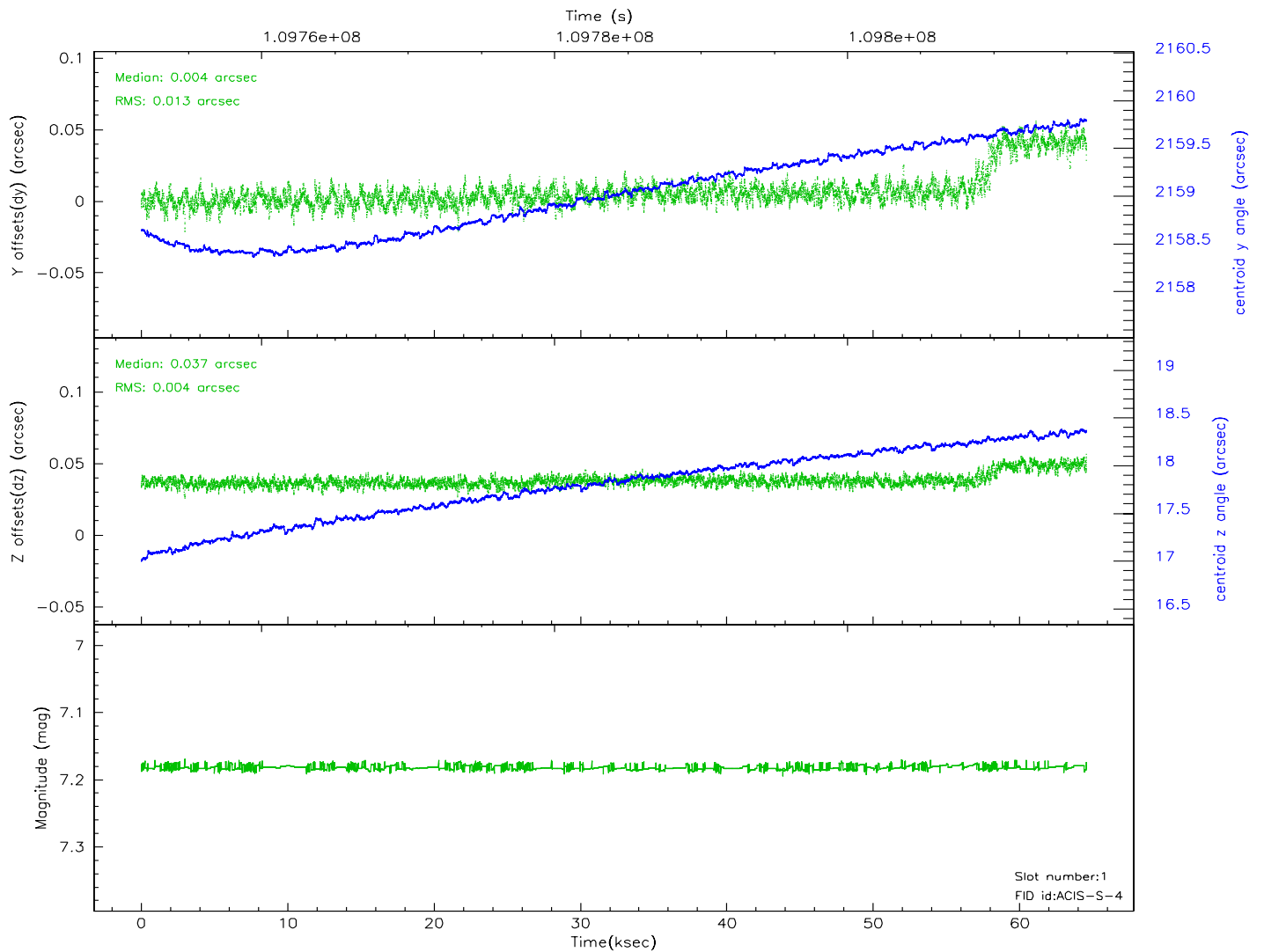
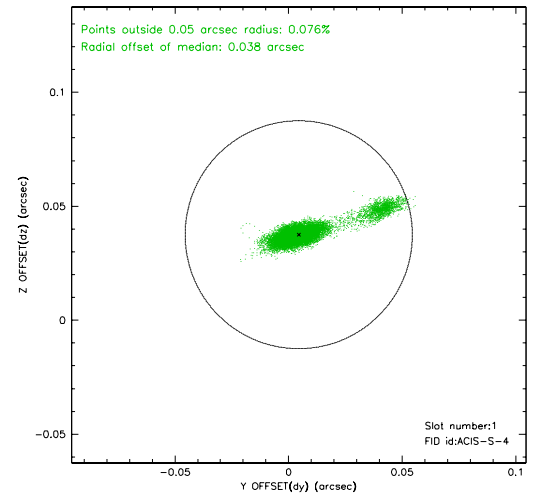
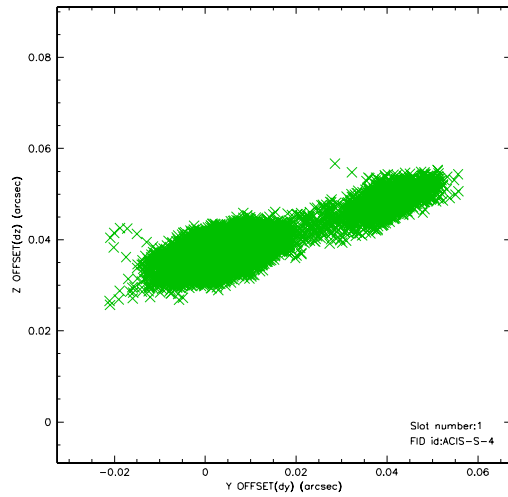


2.5 FID Slots

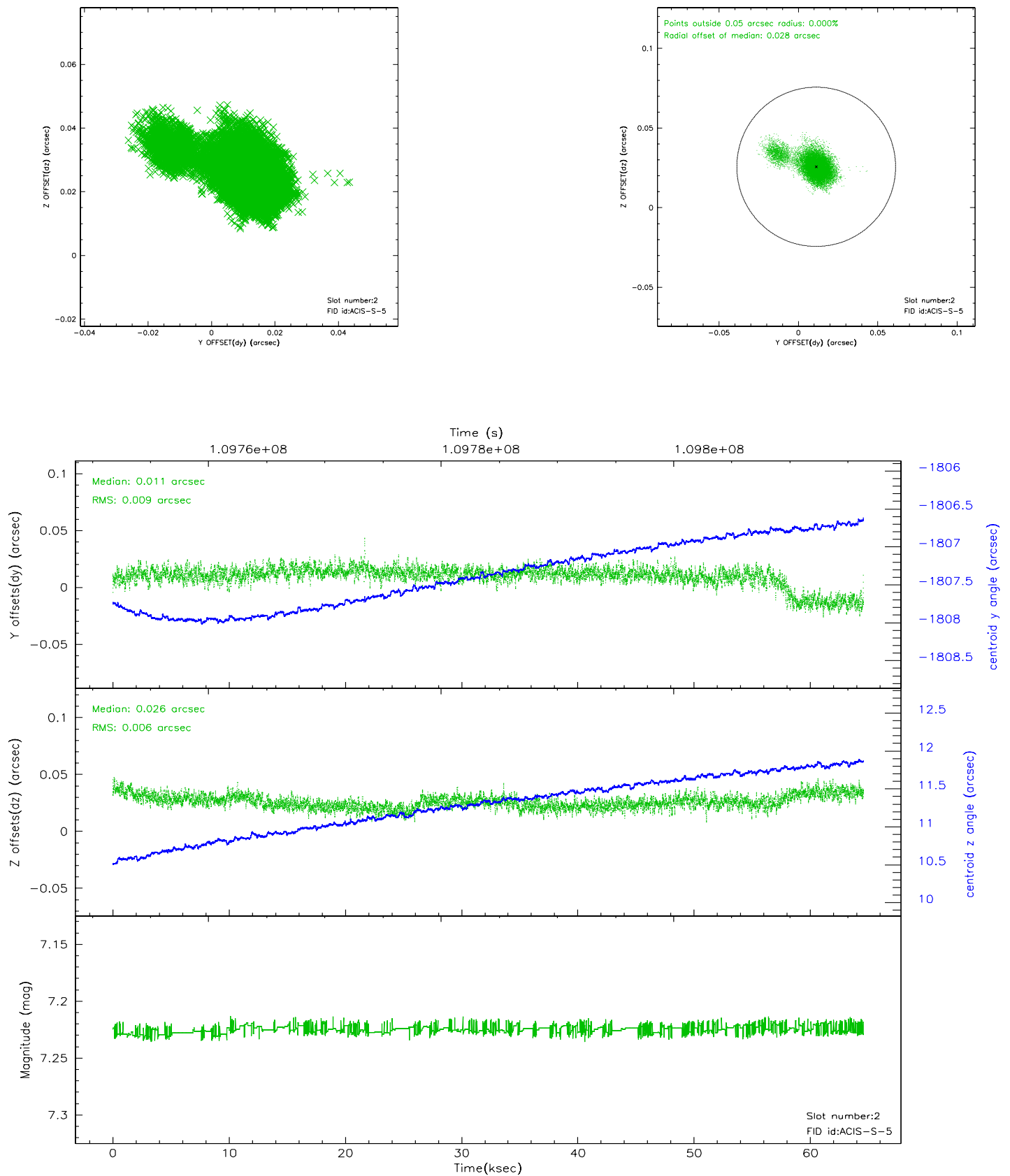
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

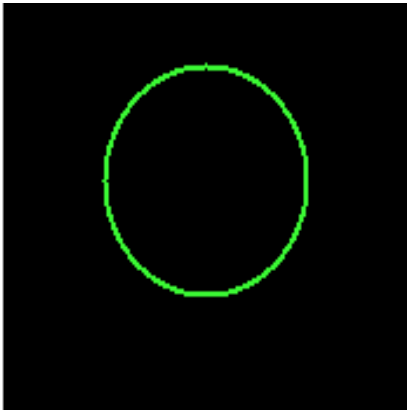


3 Gratings

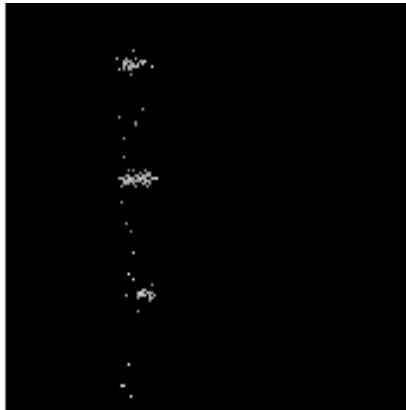
3.1 HEG Arm



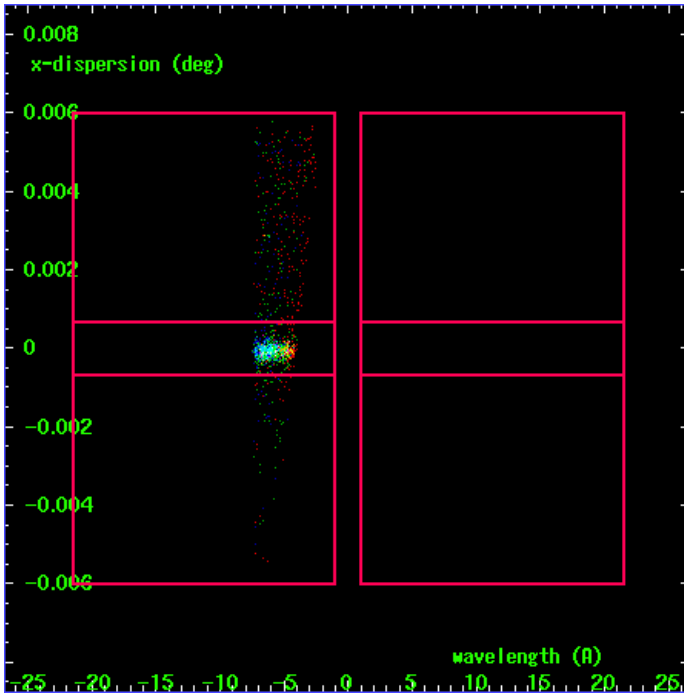
HEG Order Sort 123



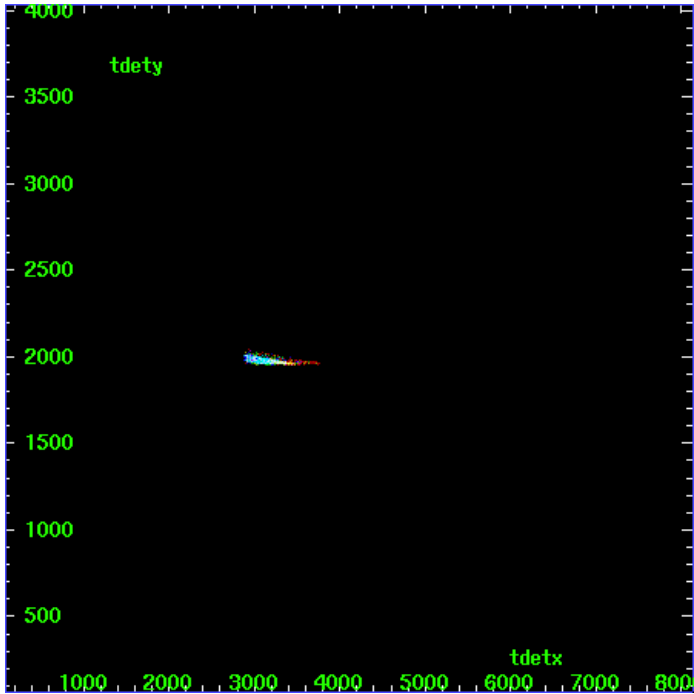
HEG Zero Order



HEG Order Sort ALL

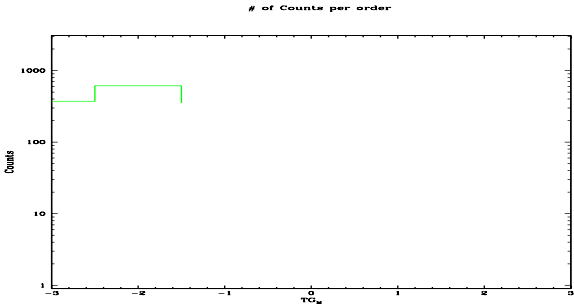


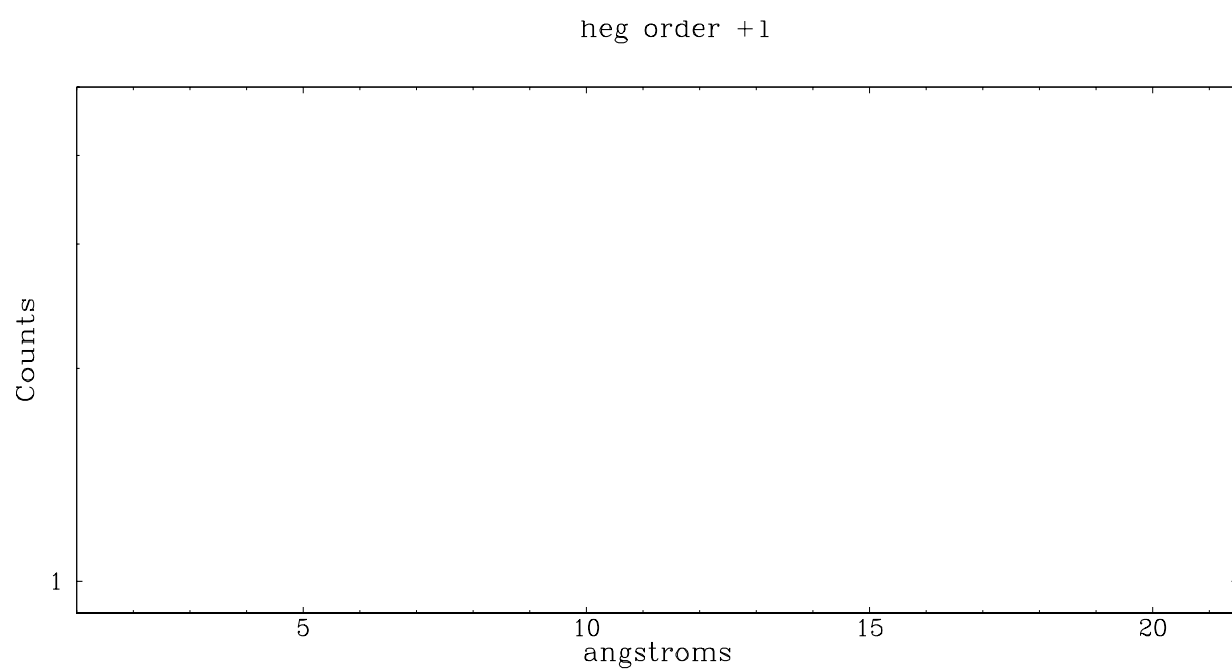
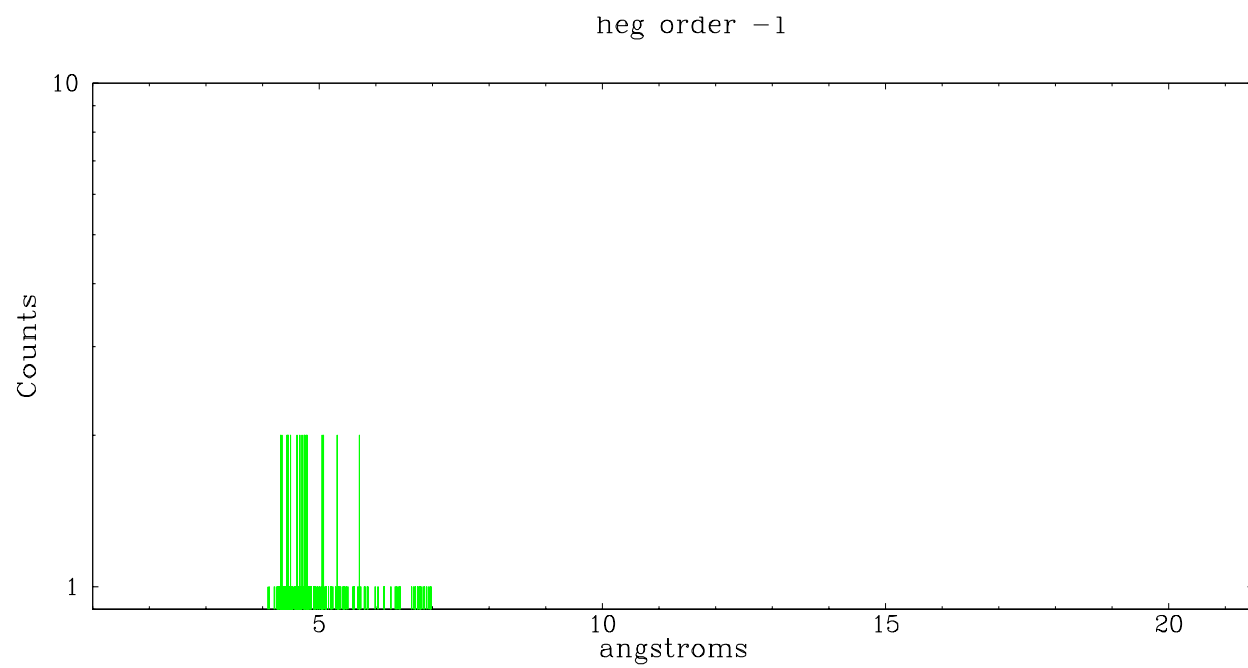
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	372	613	353	0	0	0	0

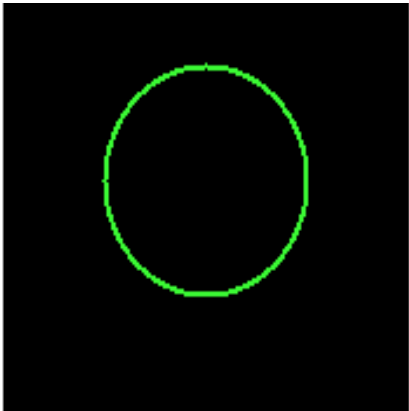




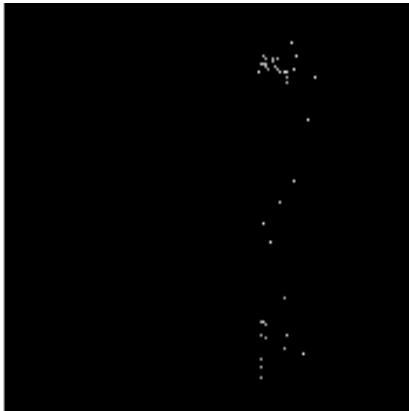
3.2 MEG Arm



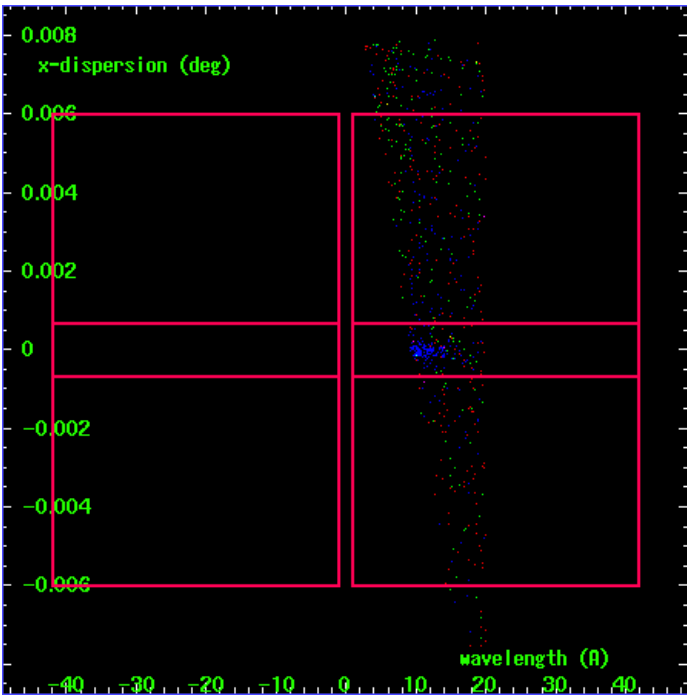
MEG Order Sort 123



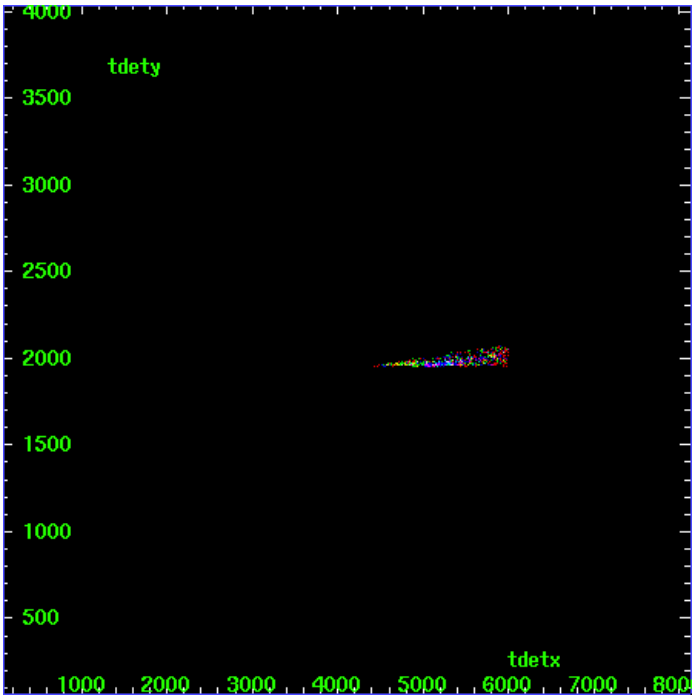
MEG Zero Order



MEG Order Sort ALL

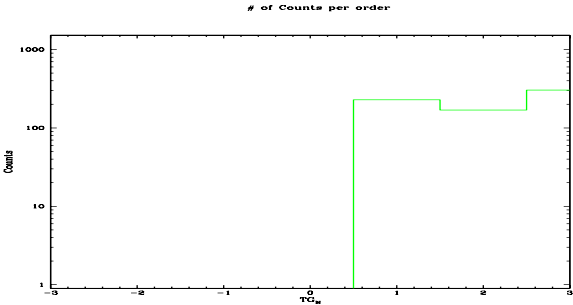


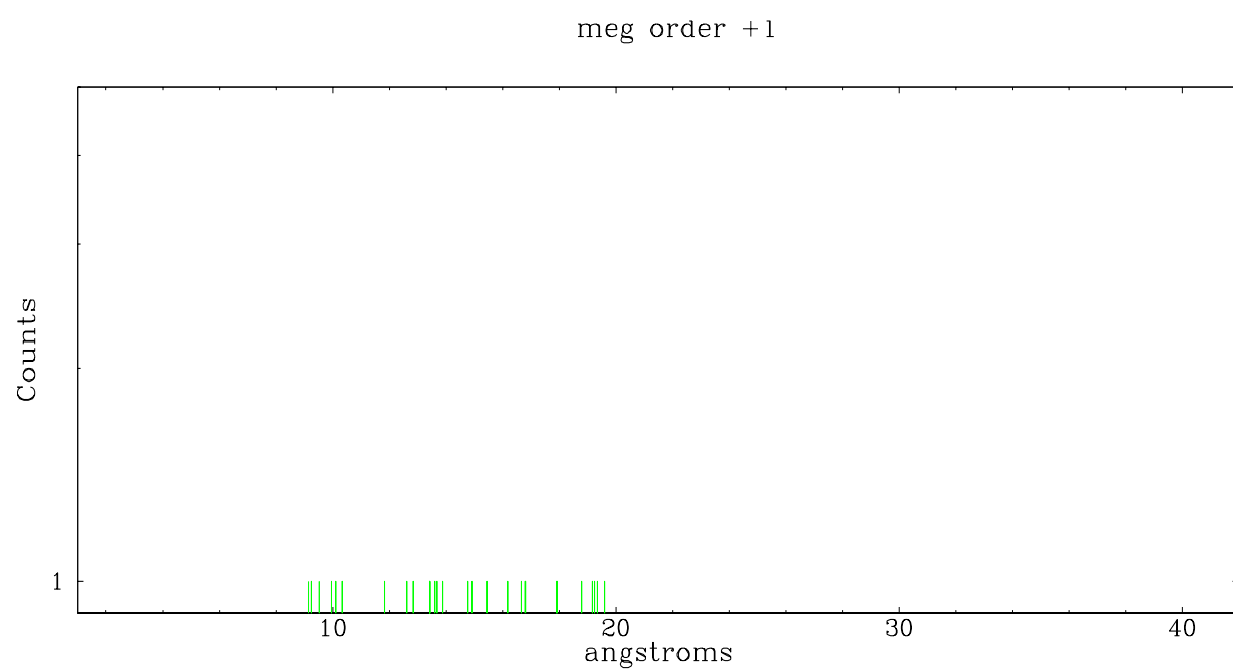
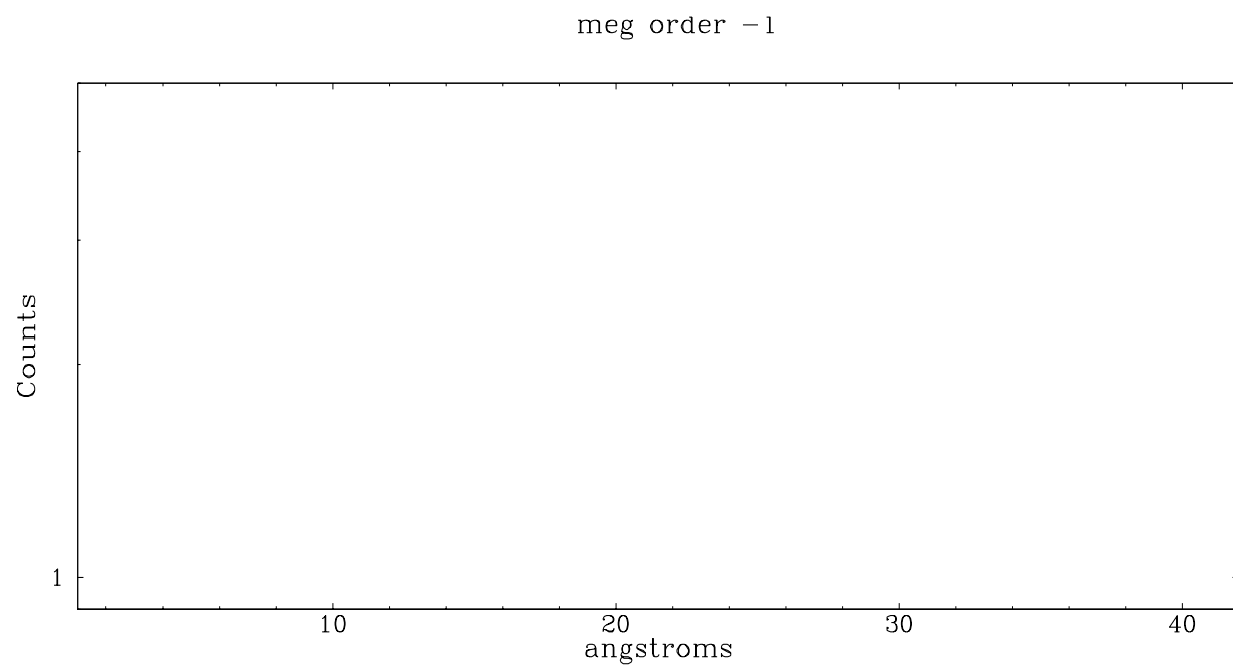
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	0	0	229	169	304





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.01.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	64.565

A.2 Comments

Due to an operational error, the ACIS subarray does not contain the target. This observation was replaced by obsid 2491. However, there is dispersed spectral data from the low energy ends of the meg +1 and heg -1 spectral arms visible on the image. The zeroth order position does not fall on the subarray selected, so the position provided by the observer for the target was used as the zeroth order position for the spectral extraction.