

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 3738 - L2 Version 001
Chandra X-Ray Center

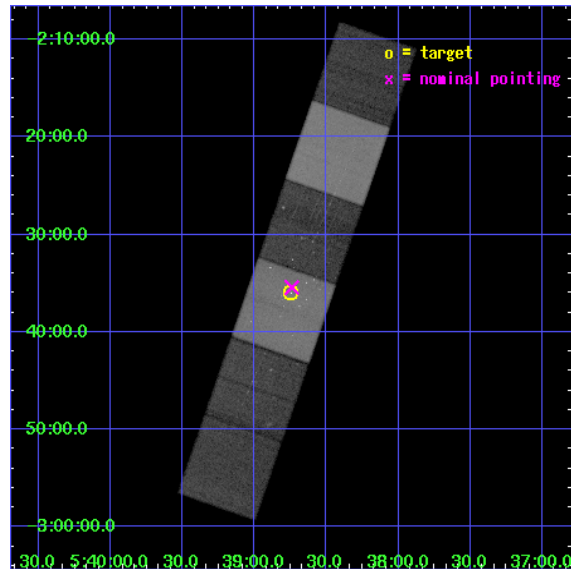
L2 Processing Date : Jul 11 2006

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1 Front

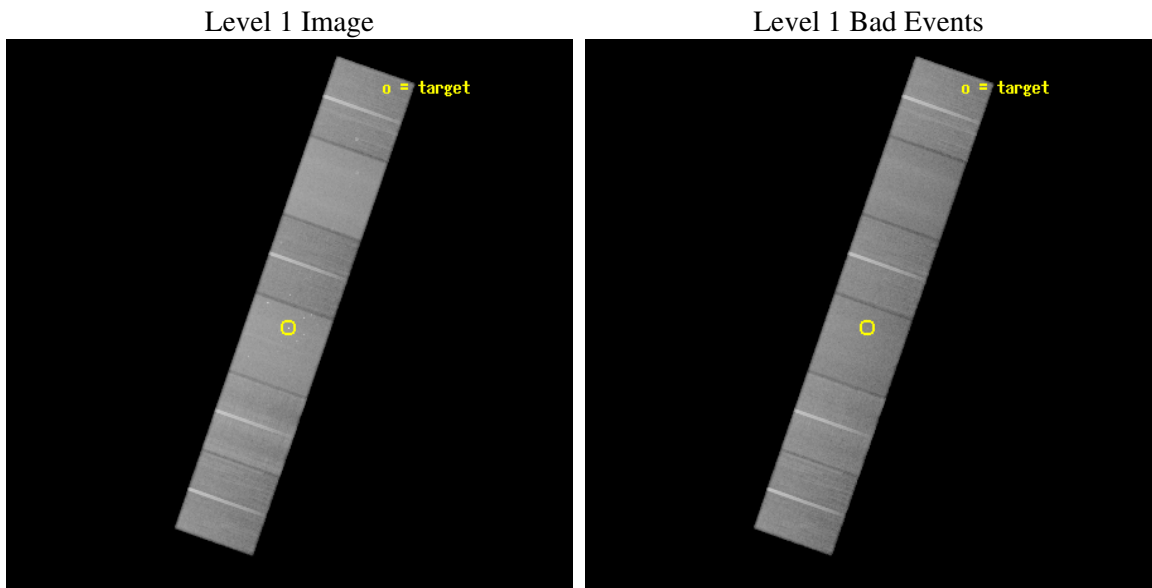
seq_num	200208
obs_id	3738
title	TESTING SHOCK THEORIES OF X-RAY EMISSION IN THE YOUNG NEARBY O-STAR SIGMA ORIONIS
observer	Dr. Stephen Skinner
object	HD37468
dtcycle	0
cycle	P
ra_targ	84.686667
dec_targ	-2.600056
ra_nom	84.685141644261
dec_nom	-2.5905227709632
roll_nom	109.17976994158
revision	2
ontime	92134.399656773
livetime	90967.738411643
ontime4	92131.158696502
ontime5	92134.399656773
ontime6	92134.399656773
ontime7	92134.399656773
ontime8	92134.399656773
ontime9	92131.158686489
l2events	881076



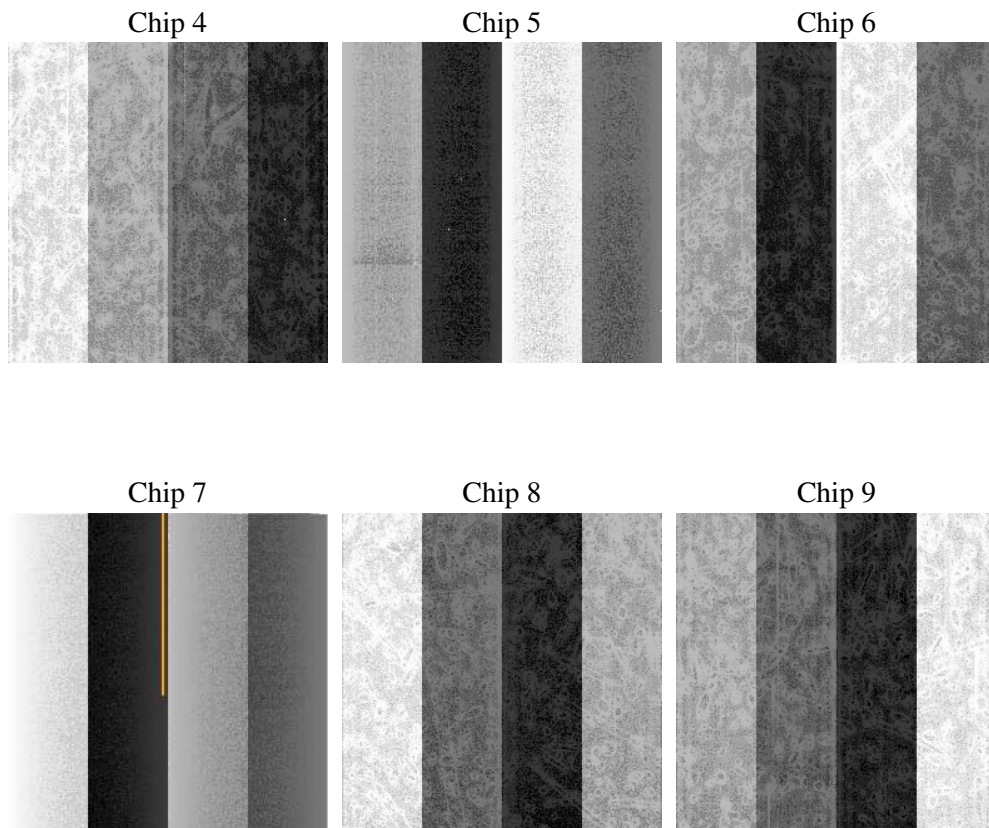
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldsver	3.2.2
date	2006-07-11T08:13:12
revision	2

sched_exp_time	92000.000000
ontime	93710.283335835
ontime4	93707.042355627
ontime5	93710.283335835
ontime6	93710.283315897
ontime7	93710.283335835
ontime8	93710.283315897
ontime9	93707.042365551
l1events	4197531

2.1.4 Events

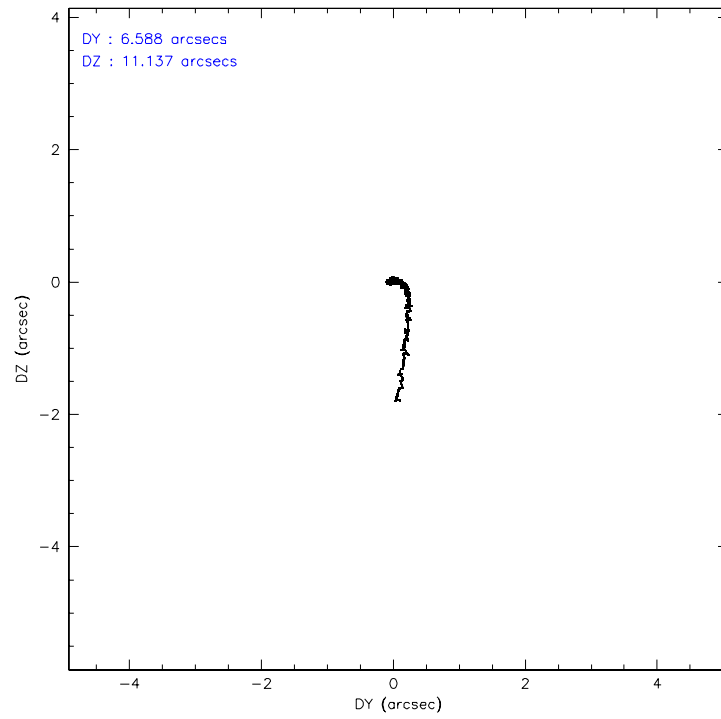
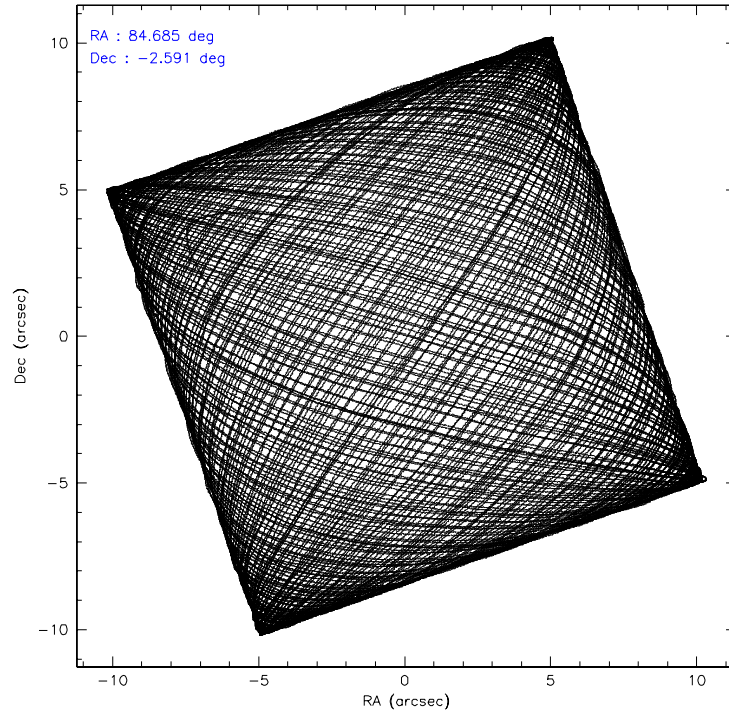
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	655803	841721	591895	788031	738742	581339
rejected events	583705	492056	521109	492255	588718	512055
rejected %	89%	58%	88%	62%	79%	88%

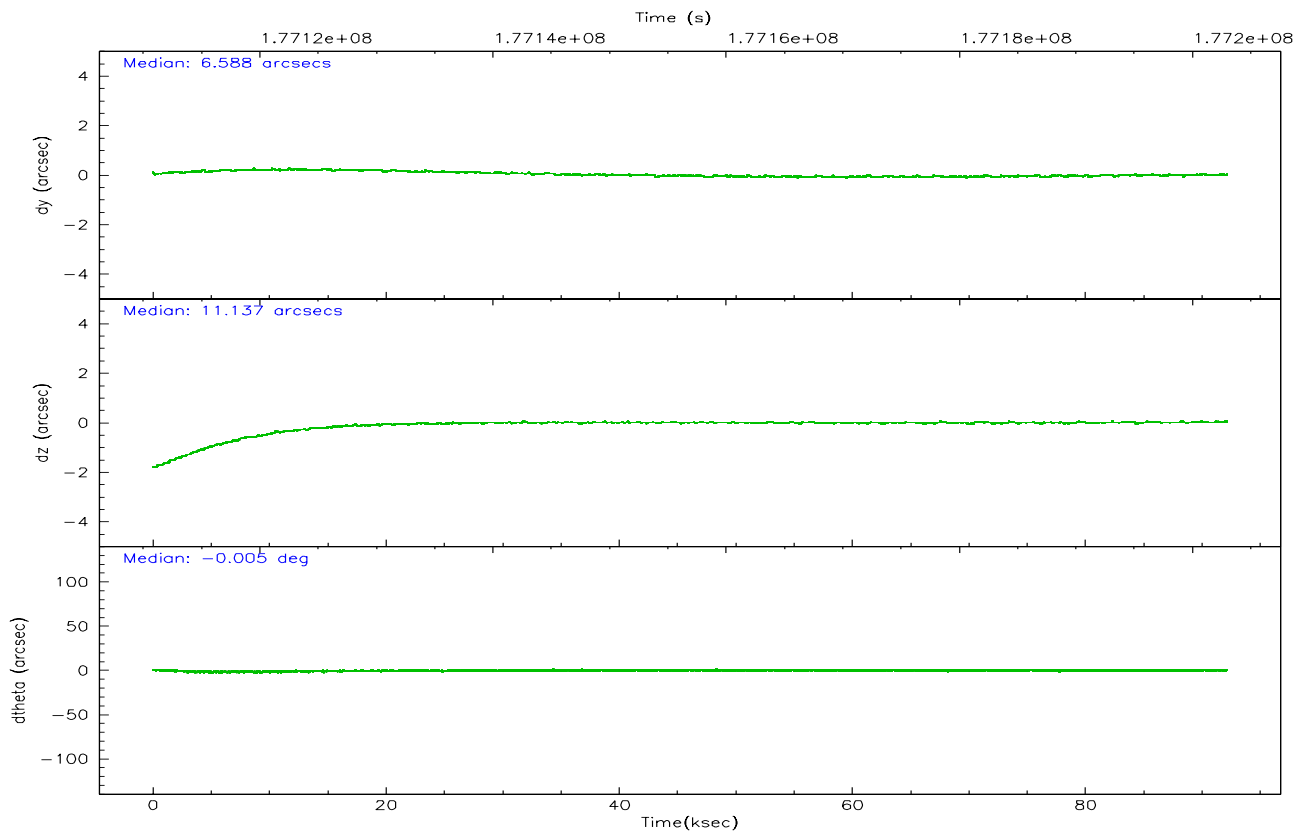
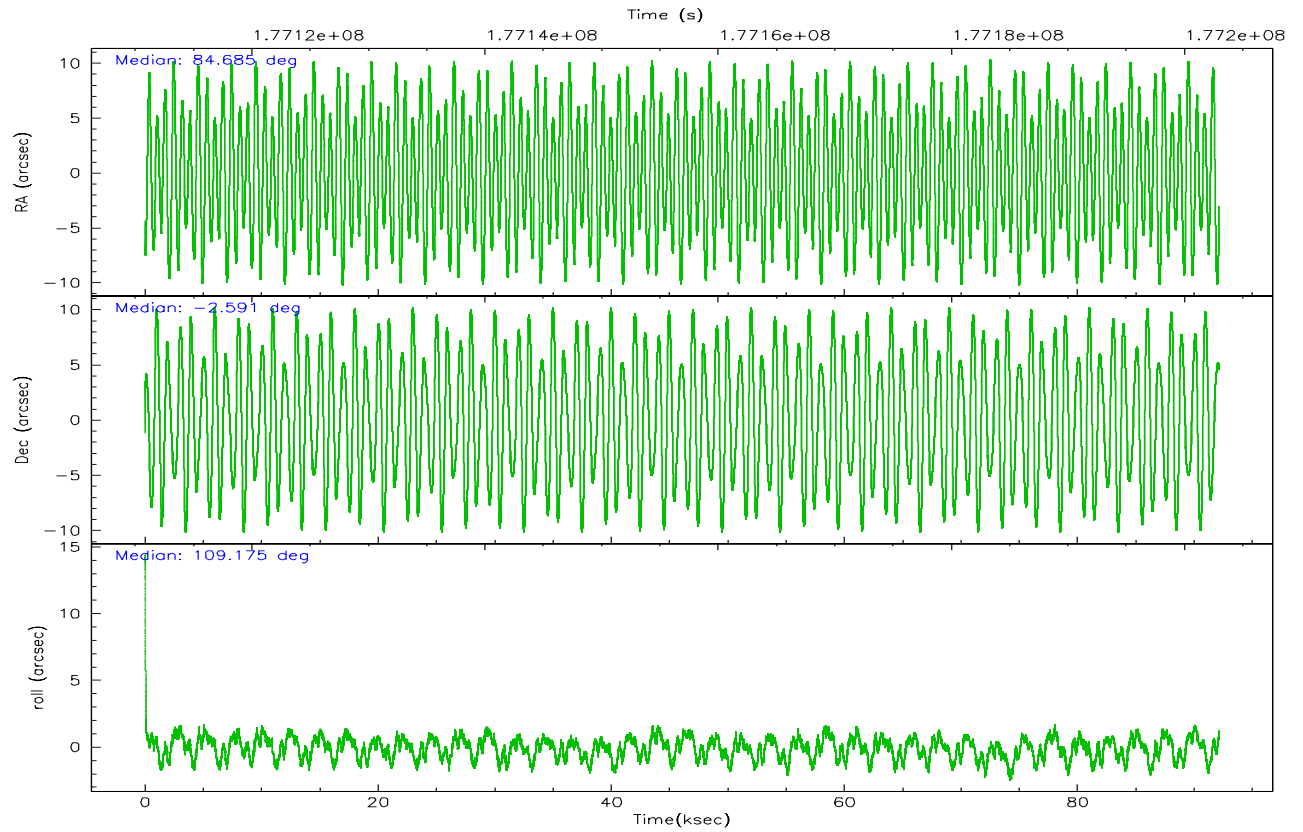
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	32986	13385	29577	17811	48844	28717
	5%	1%	4%	2%	6%	4%
grade 1 events	581	699	263	453	466	282
	0%	0%	0%	0%	0%	0%
grade 2 events	14839	110650	14664	74477	32939	13543
	2%	13%	2%	9%	4%	2%
grade 3 events	7445	8025	6836	15514	15971	7254
	1%	0%	1%	1%	2%	1%
grade 4 events	7069	7641	6711	15079	15123	7053
	1%	0%	1%	1%	2%	1%
grade 5 events	25400	40292	26435	51151	34403	28010
	3%	4%	4%	6%	4%	4%
grade 6 events	11242	215997	14120	177513	39484	13859
	1%	25%	2%	22%	5%	2%
grade 7 events	556241	445032	493289	436033	551512	482621
	84%	52%	83%	55%	74%	83%

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	84.706009	84.68514164426101	Alternating exposures requested	N	N
Pointing Dec	-2.608028	-2.590522770963244	Primary exposure time	0.000000	3.2
Pointing Roll	109.024083	109.1797699415807			
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	177110976.184000	177109142.1348			
Observation start date	2003-08-12T21:28:32	2003-08-12T20:59:02			
Observation end time	177202976.184000	177204565.02638			
Observation end date	2003-08-13T23:01:52	2003-08-13T23:29:25			
Read mode	TIMED	TIMED			

2.3 Aspect



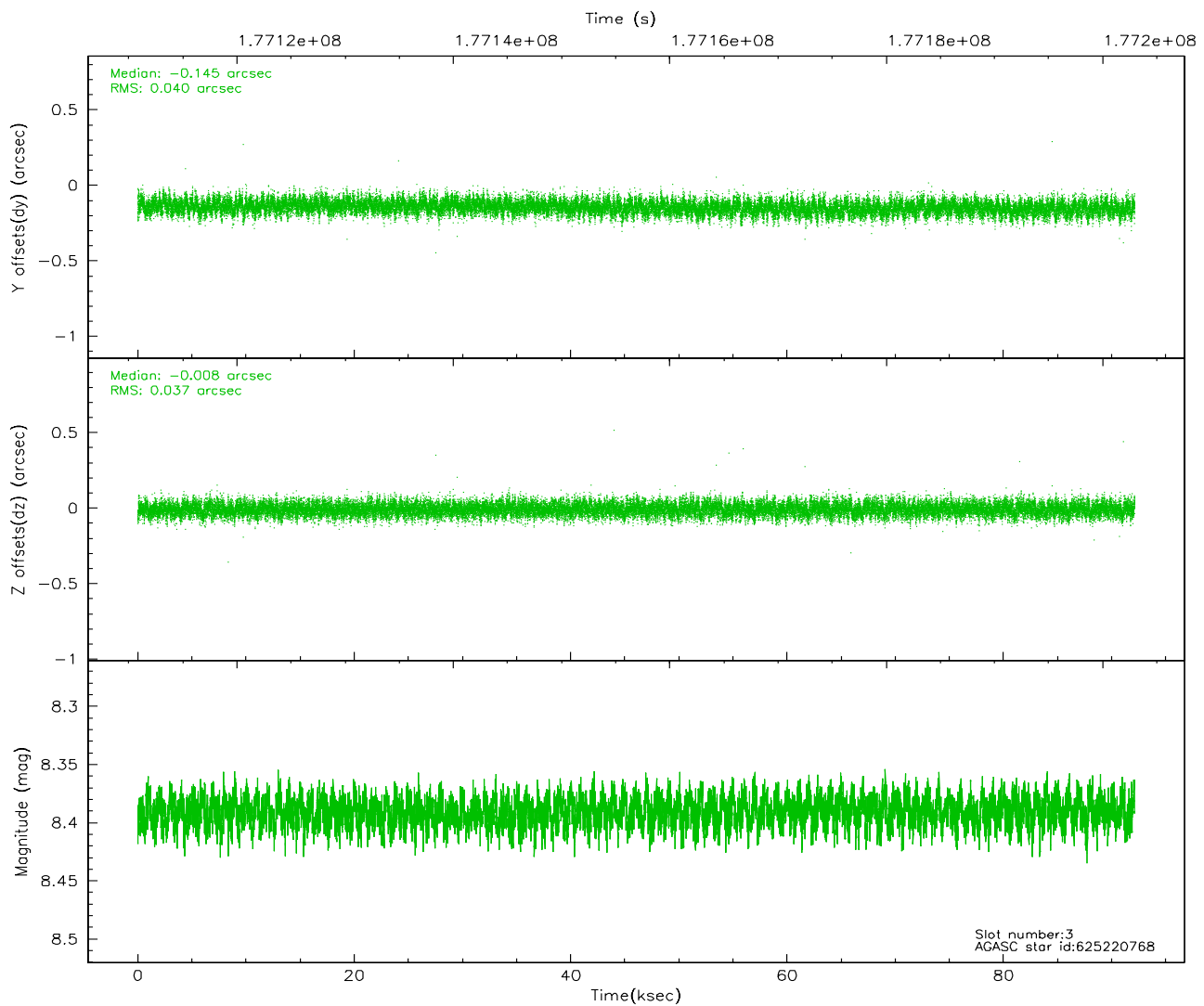
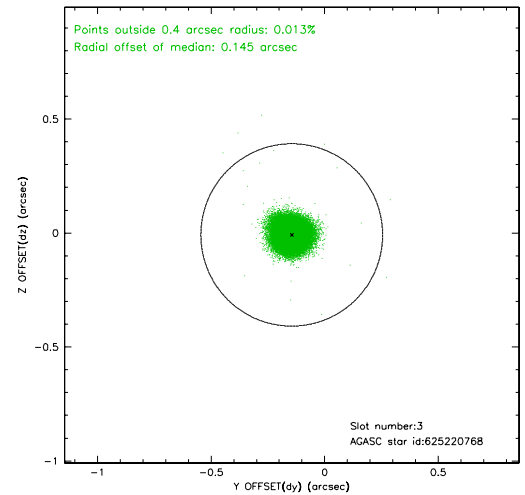
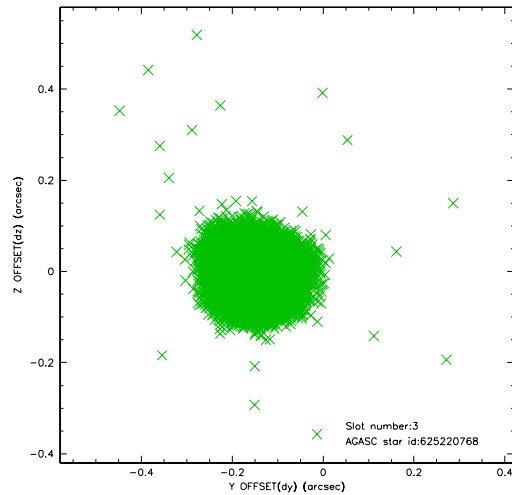


Slot Statistics

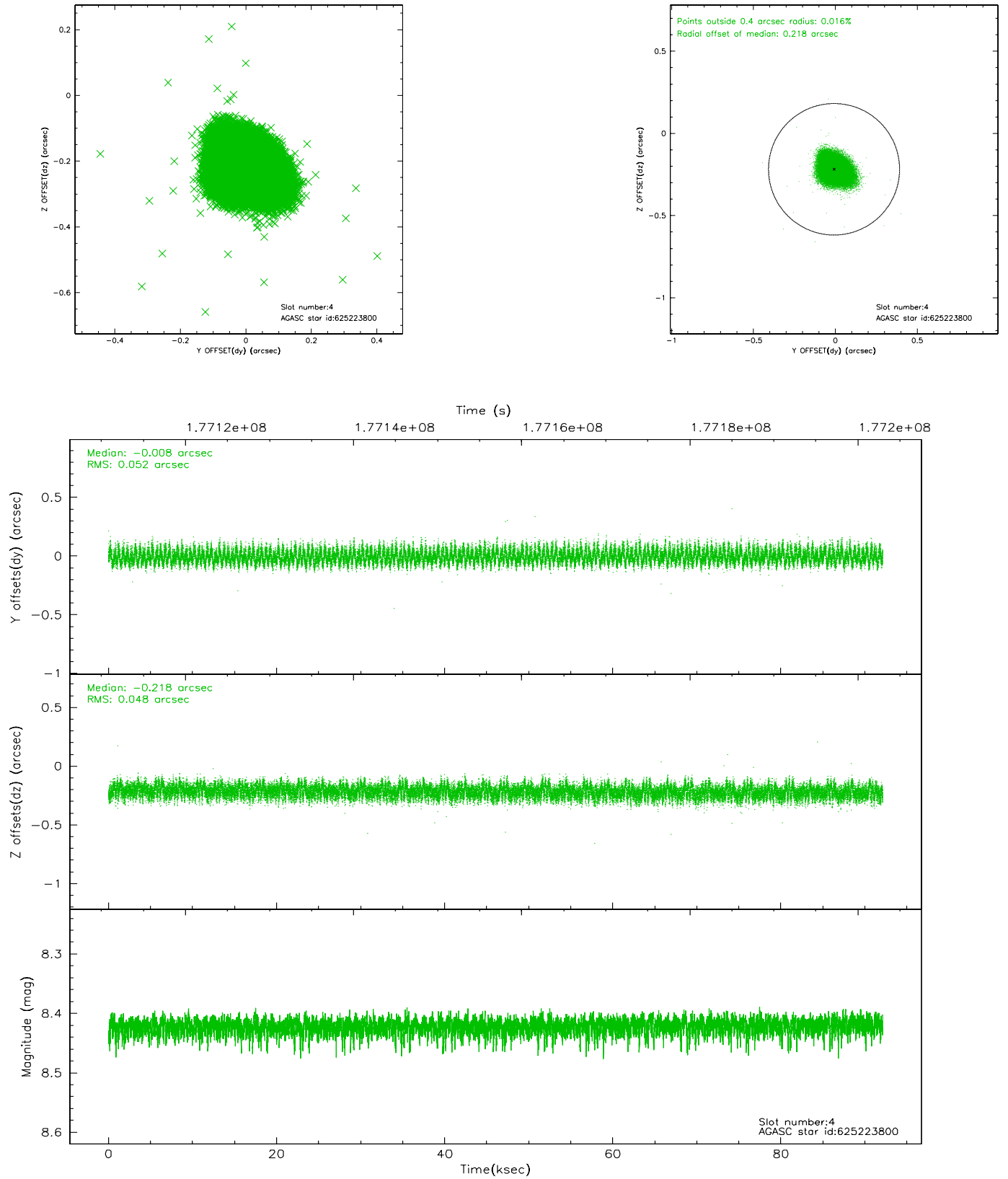
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	22472	-0.037	0.011	0.008	0.015	0.000000	0.000000	-759.39	-1732.28
1	FID	ACIS-S-4	7.20	22471	0.008	0.015	0.007	0.022	0.000000	0.000000	2153.95	176.32
2	FID	ACIS-S-5	7.23	22473	-0.002	-0.018	0.007	0.015	0.000000	0.000000	-1812.32	169.83
3	GUIDE	625220768	8.39	44935	-0.145	-0.008	0.058	0.094	84.347465	-2.083660	2204.74	604.42
4	GUIDE	625223800	8.42	44932	-0.008	-0.218	0.075	0.119	84.220234	-2.967062	-653.03	2072.30
5	GUIDE	625222600	8.02	44941	-0.060	-0.138	0.057	0.091	83.943895	-2.374066	1688.93	2317.44
6	GUIDE	625352888	9.02	44934	0.121	0.164	0.087	0.139	85.235702	-2.833055	-1386.76	-1536.25
7	GUIDE	625344848	8.85	44925	0.099	0.196	0.103	0.164	85.470194	-2.798578	-1544.73	-2373.78

2.4 Star Slots

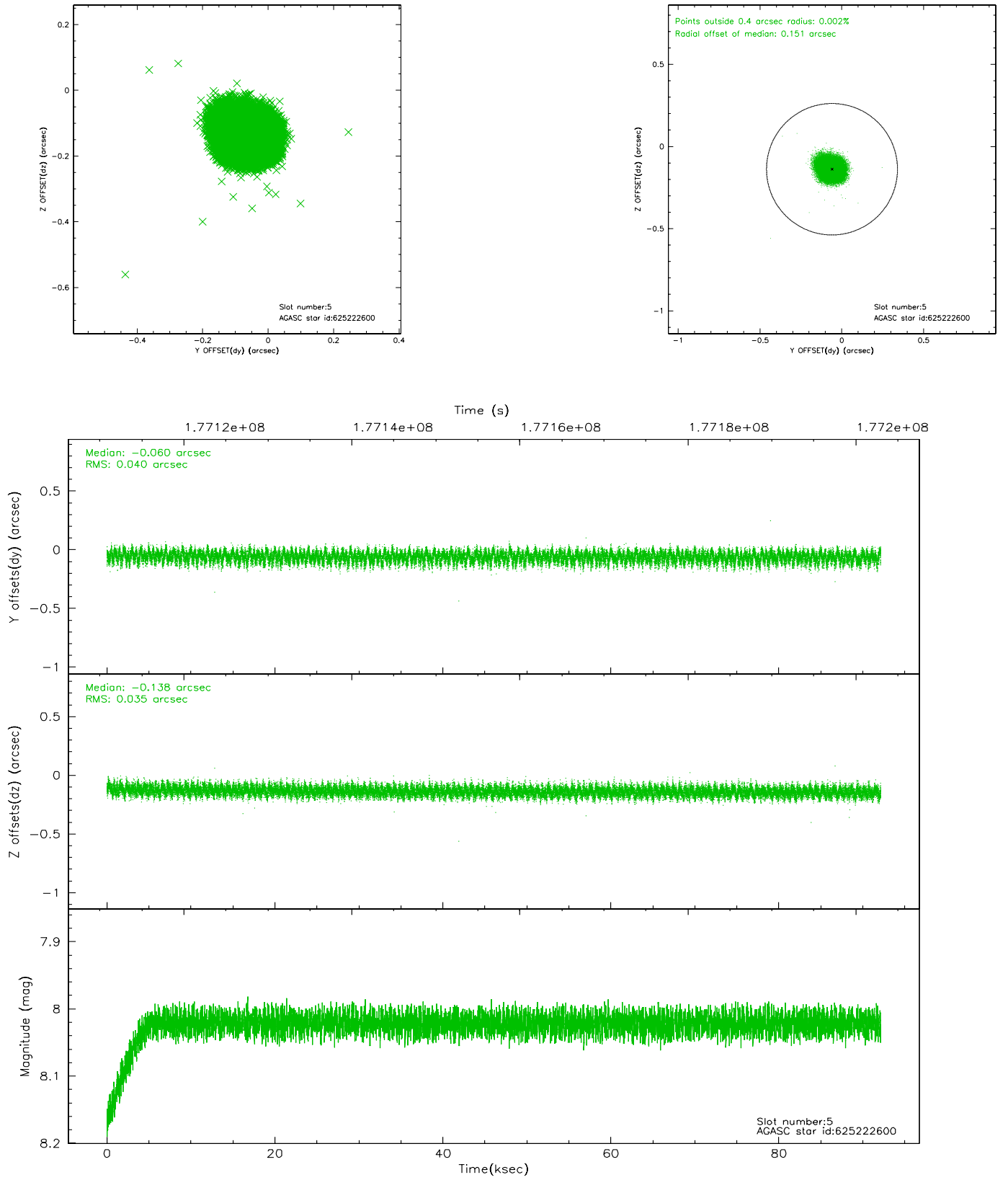
2.4.1 Slot 3



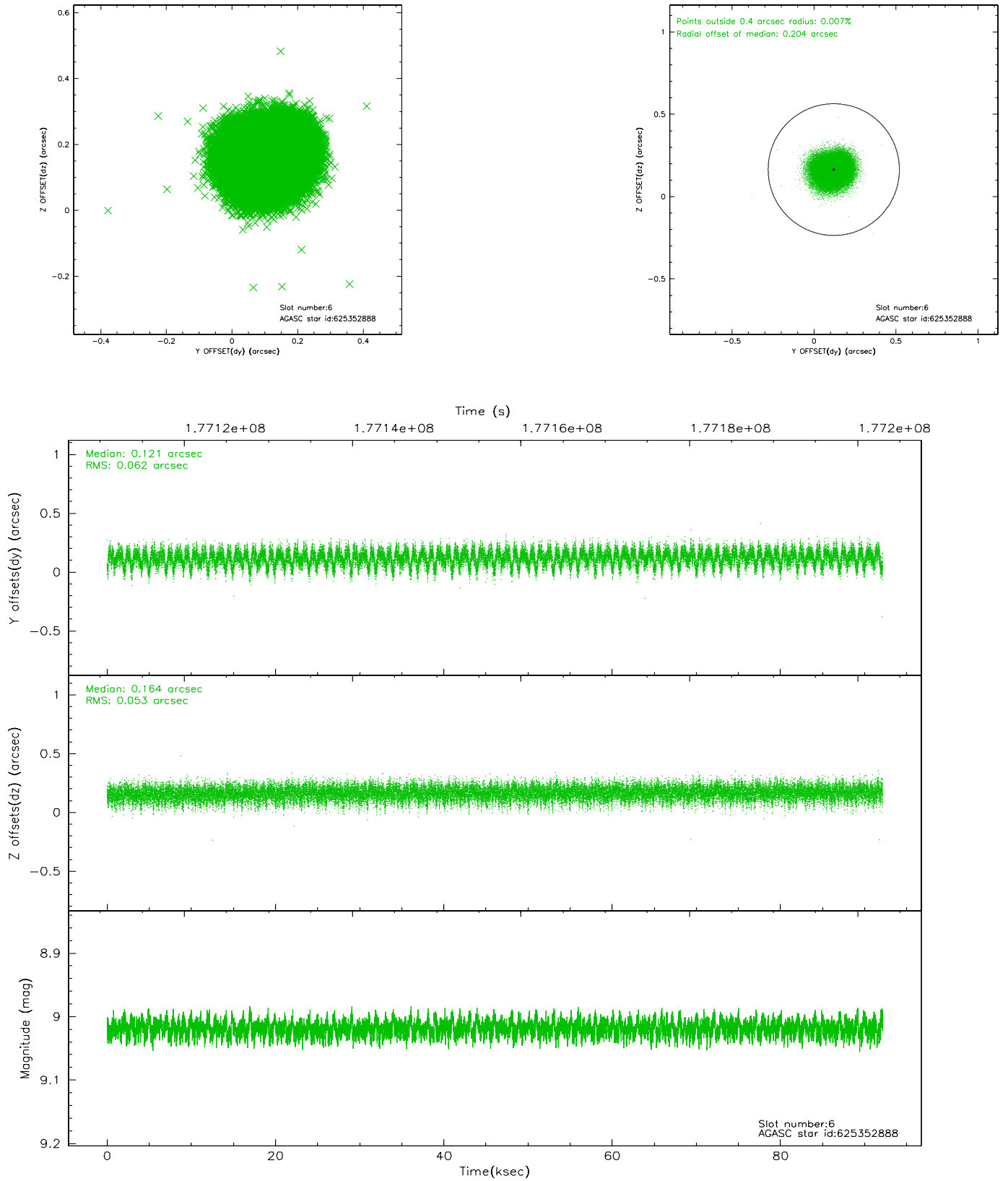
2.4.2 Slot 4



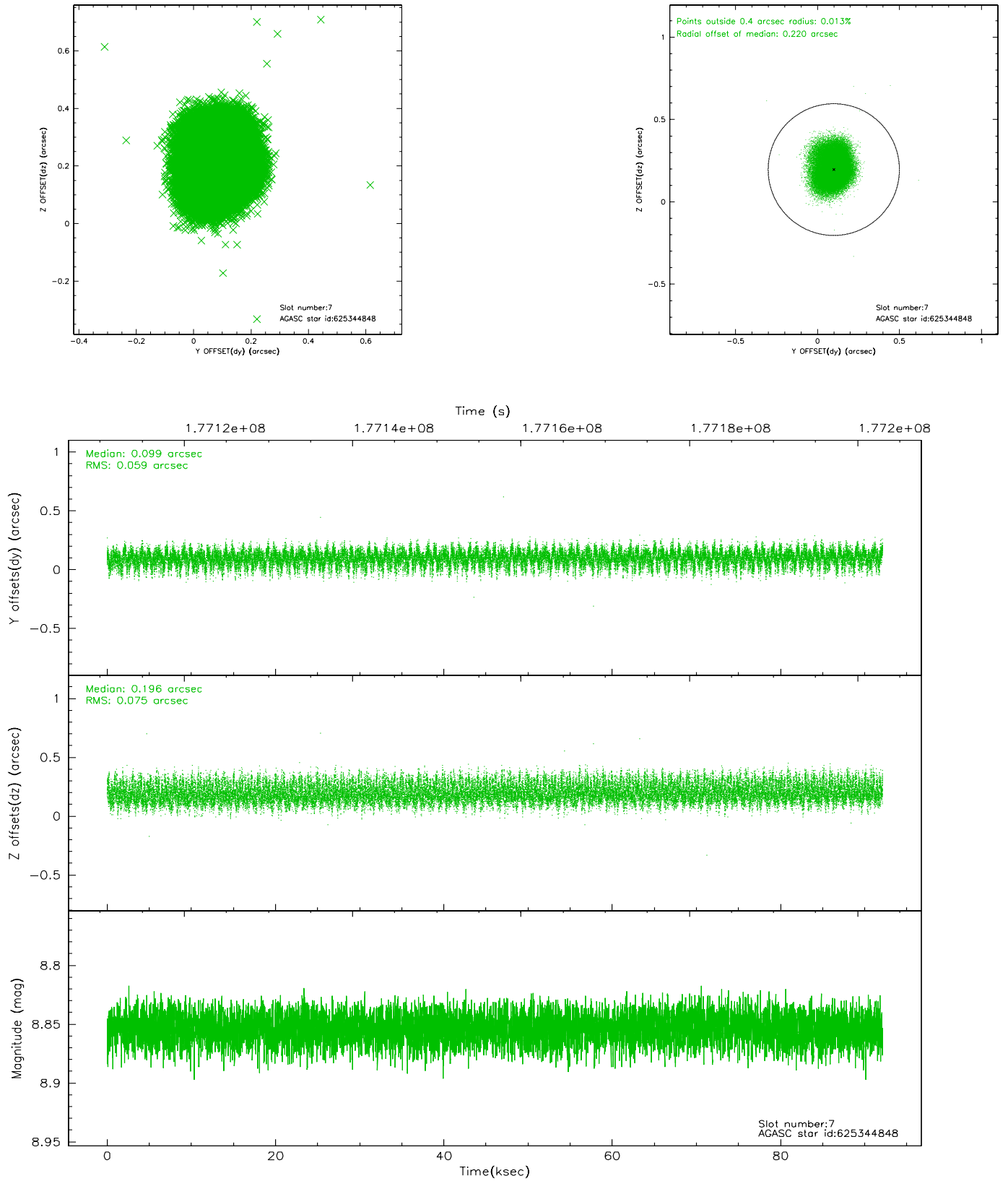
2.4.3 Slot 5



2.4.4 Slot 6

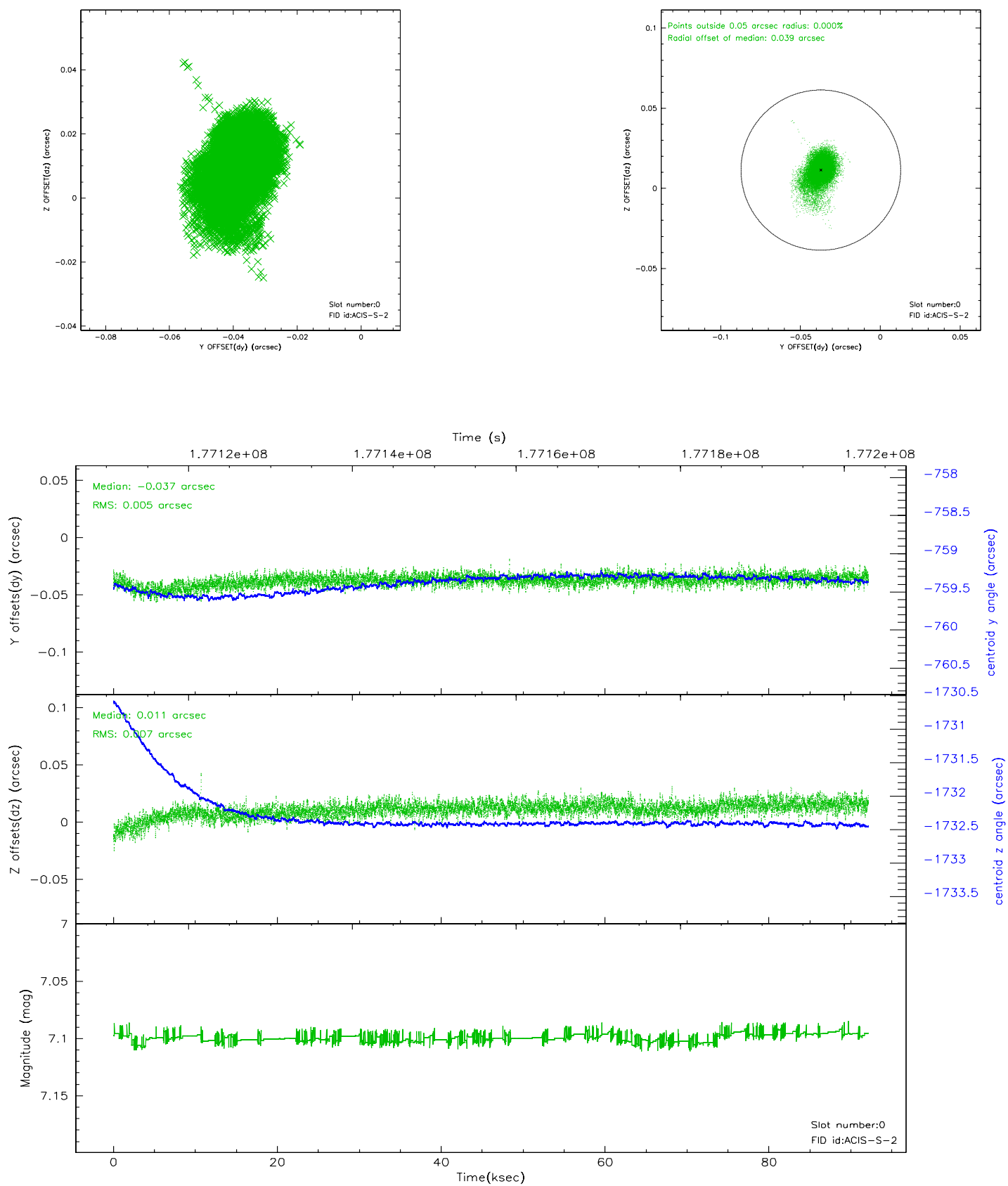


2.4.5 Slot 7

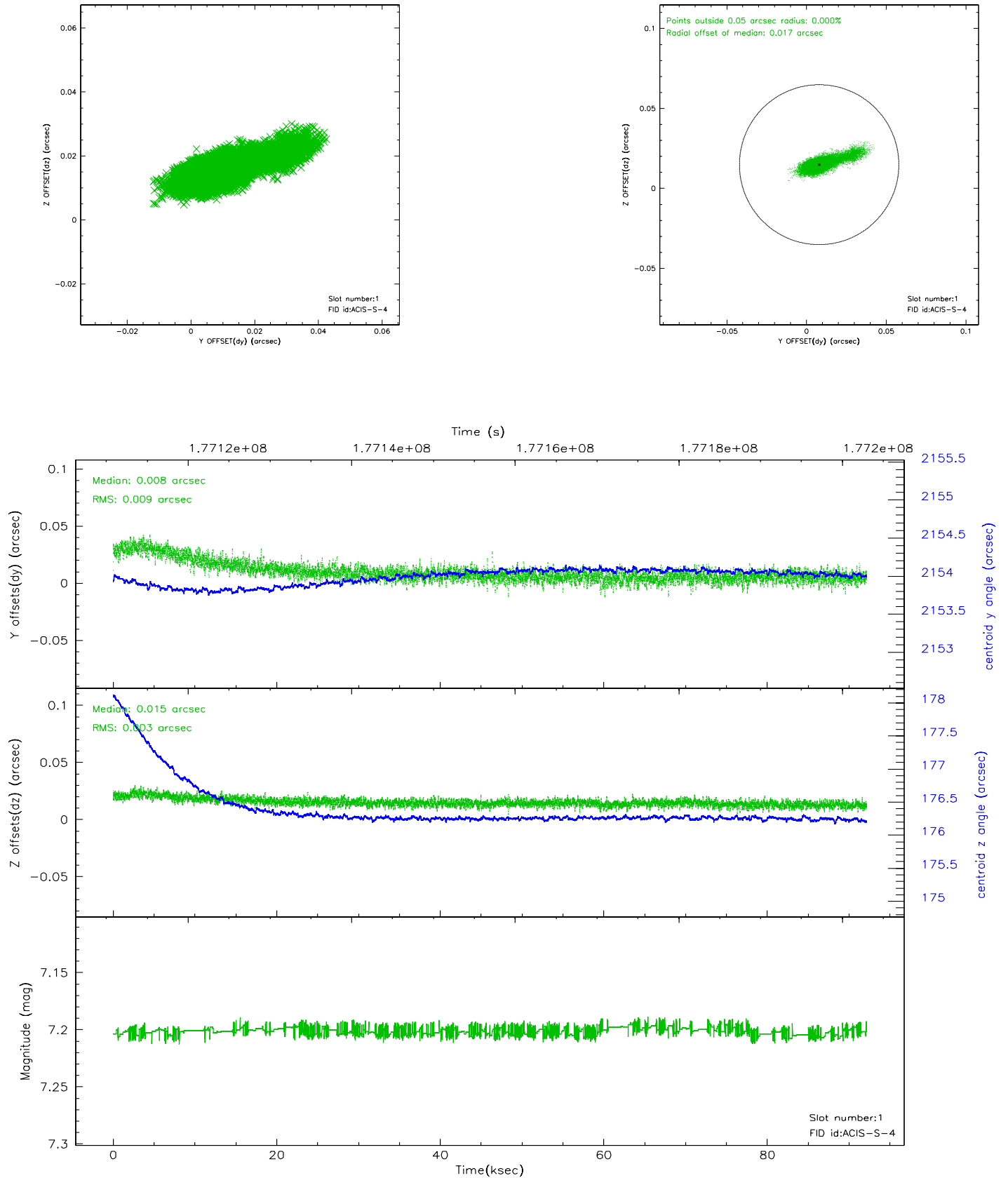


2.5 FID Slots

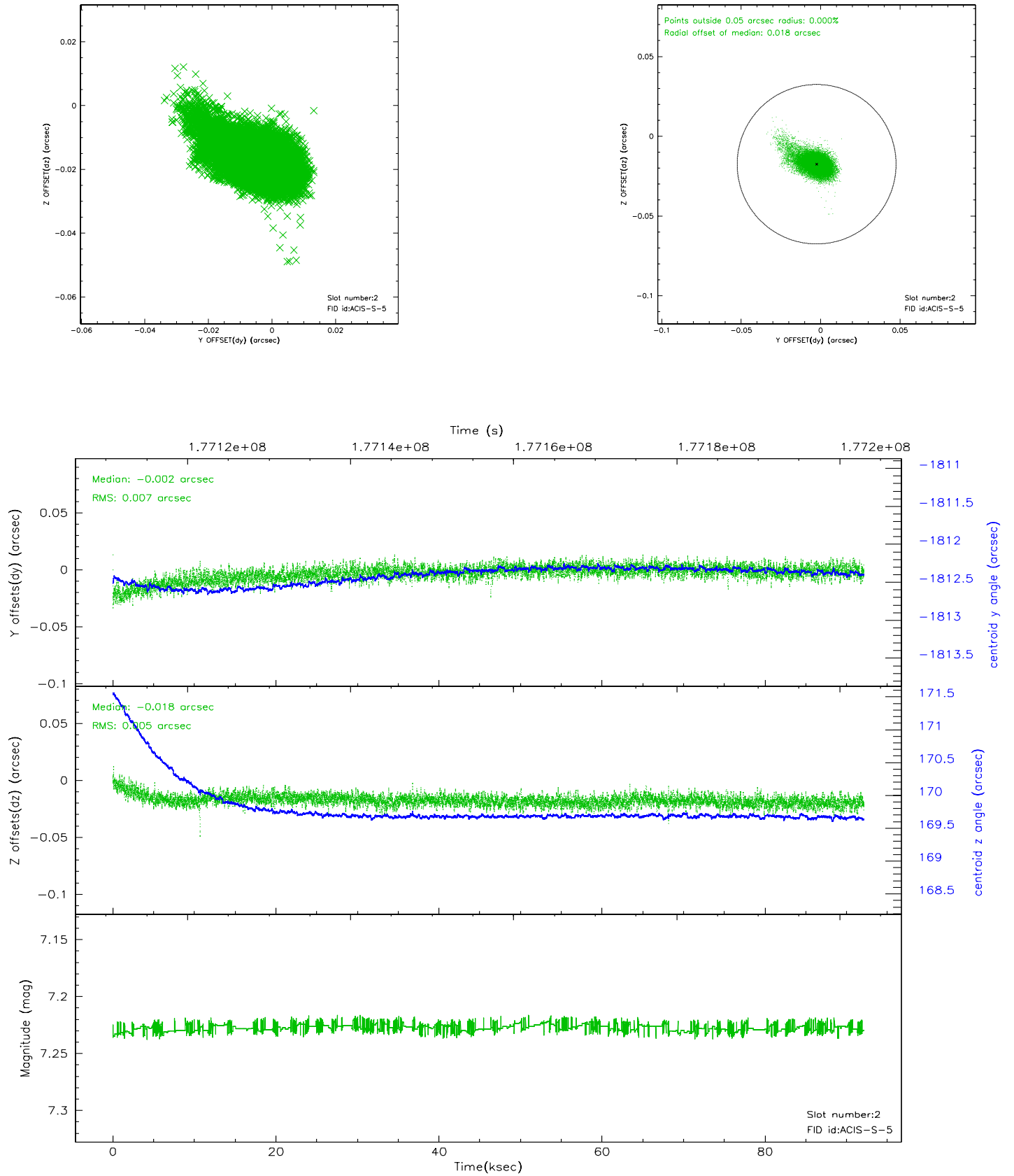
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

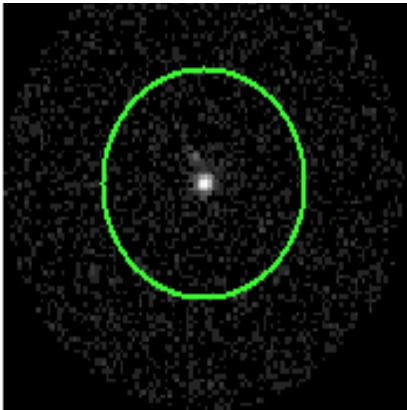


3 Gratings

3.1 HEG Arm



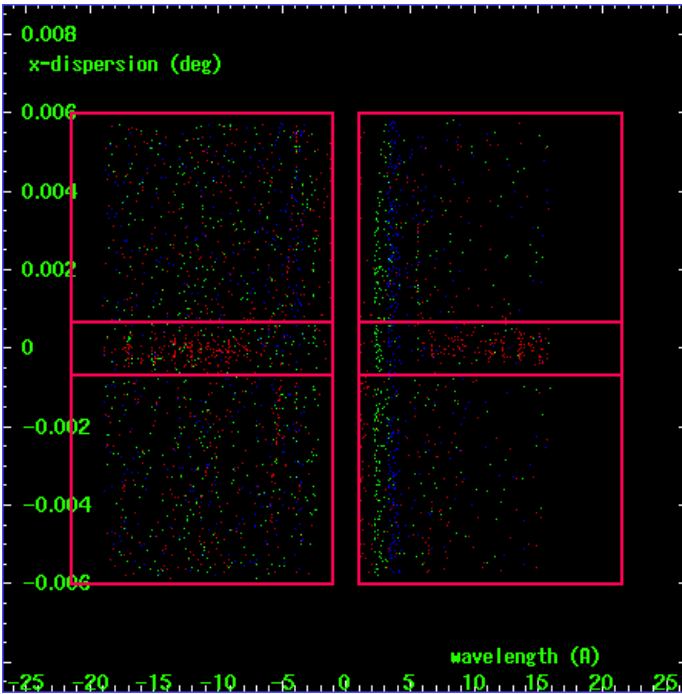
HEG Order Sort 123



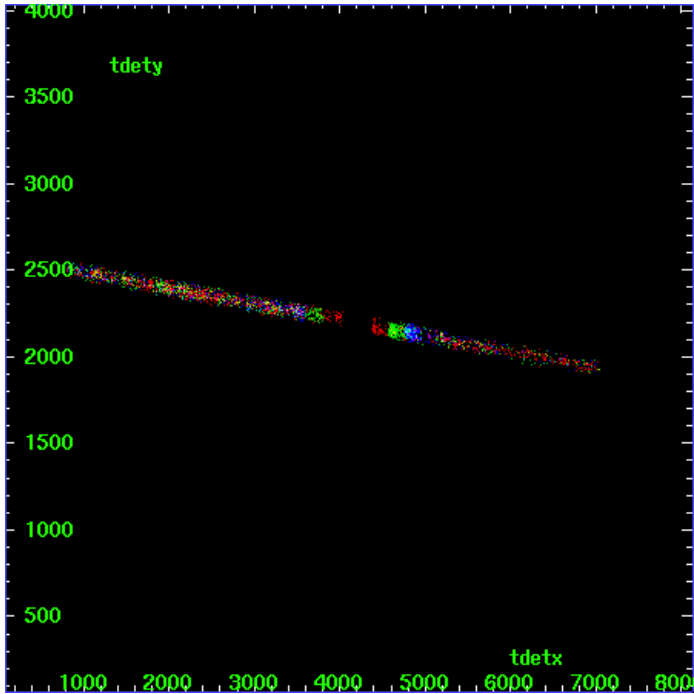
HEG Zero Order



HEG Order Sort ALL

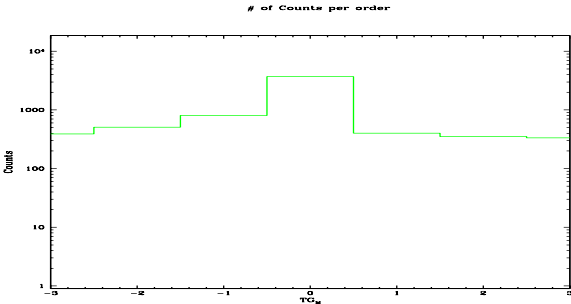


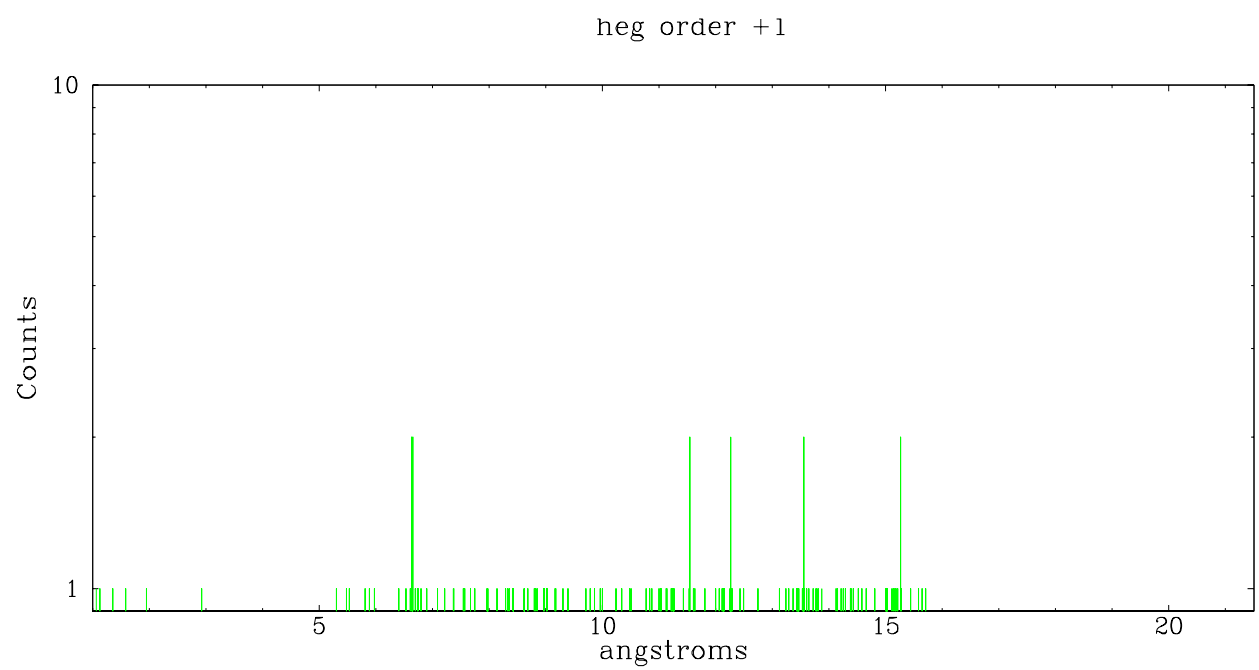
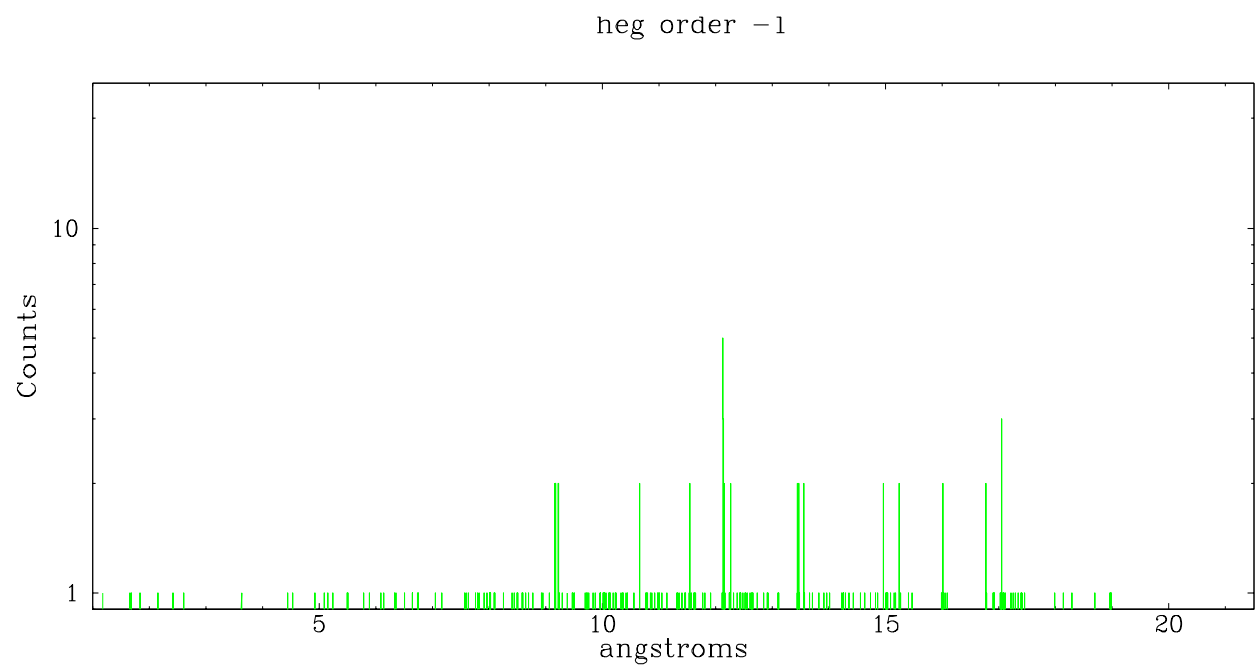
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	390	507	806	3693	401	352	335

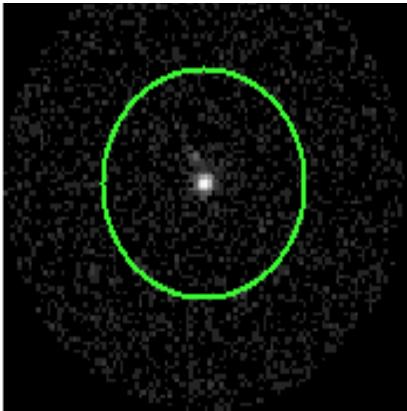




3.2 MEG Arm



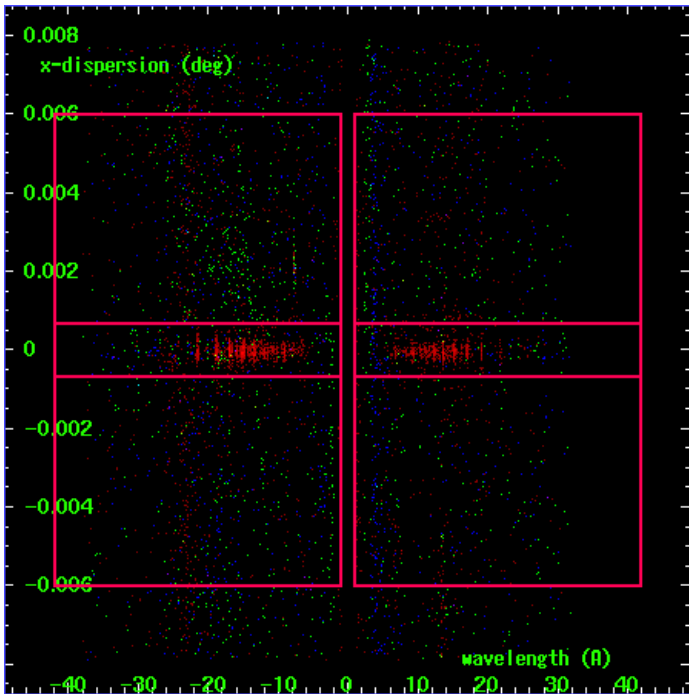
MEG Order Sort 123



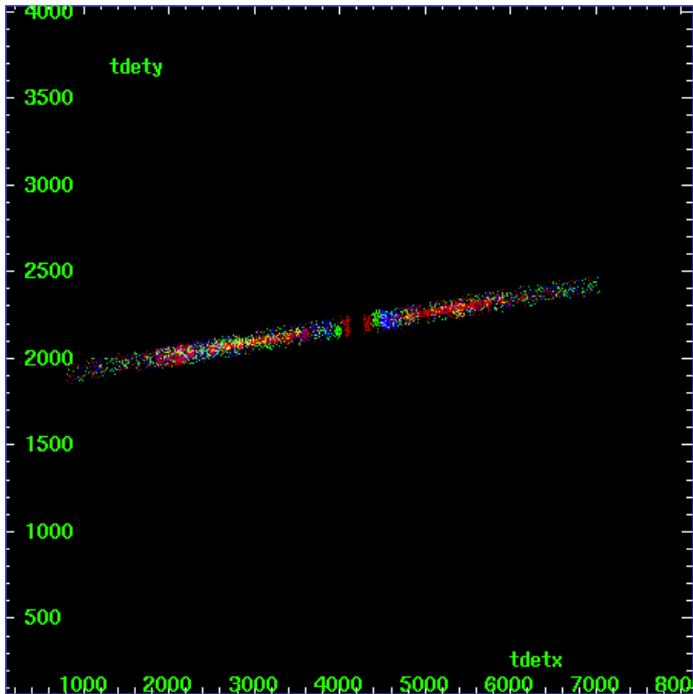
MEG Zero Order



MEG Order Sort ALL

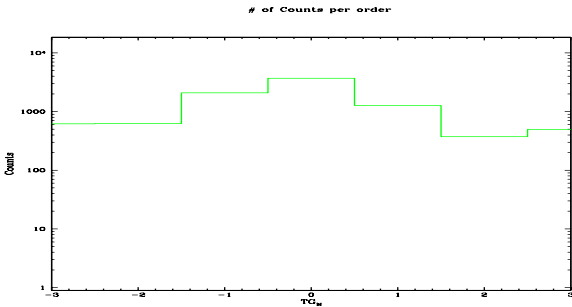


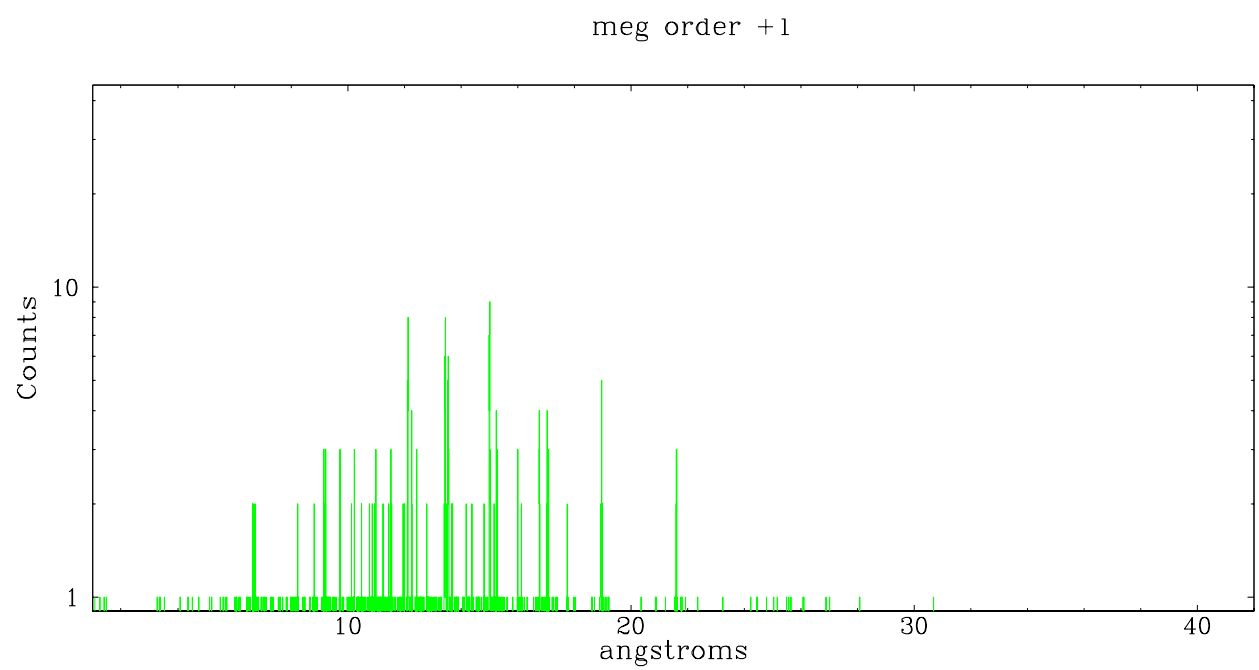
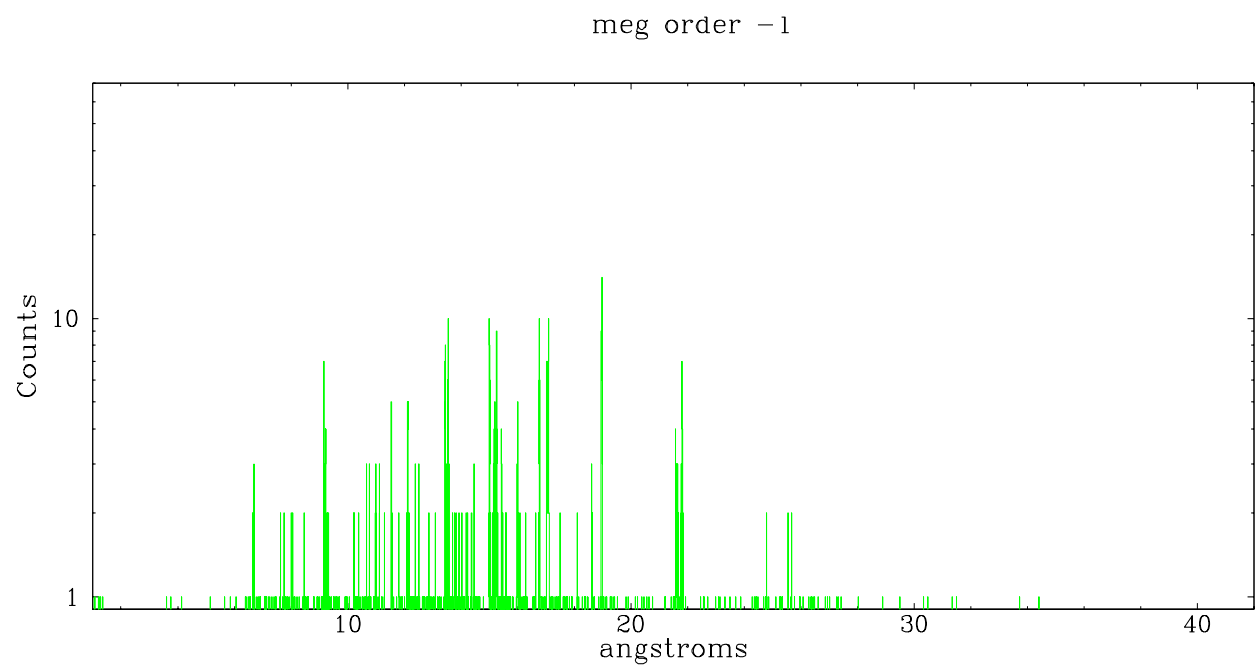
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	621	624	2092	3693	1272	372	495





A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.07.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	92.134

A.2 Comments

Focal plane temperature is warmer than -118 degrees during initial ~15 ksec of observation. The ACIS calibrations are not verified or necessarily applicable for focal plane temperatures warmer than -118 degrees.