

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11990 - L2 Version 2
Chandra X-Ray Center

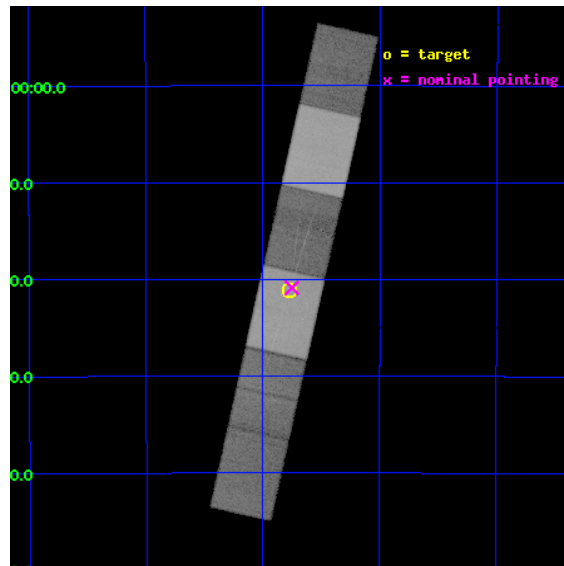
L2 Processing Date : Jun 14 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Gratings	17
3.1	HEG Arm	17
3.2	MEG Arm	19
A	Summary	21
A.1	Status	21
A.2	Comments	21

1 Front

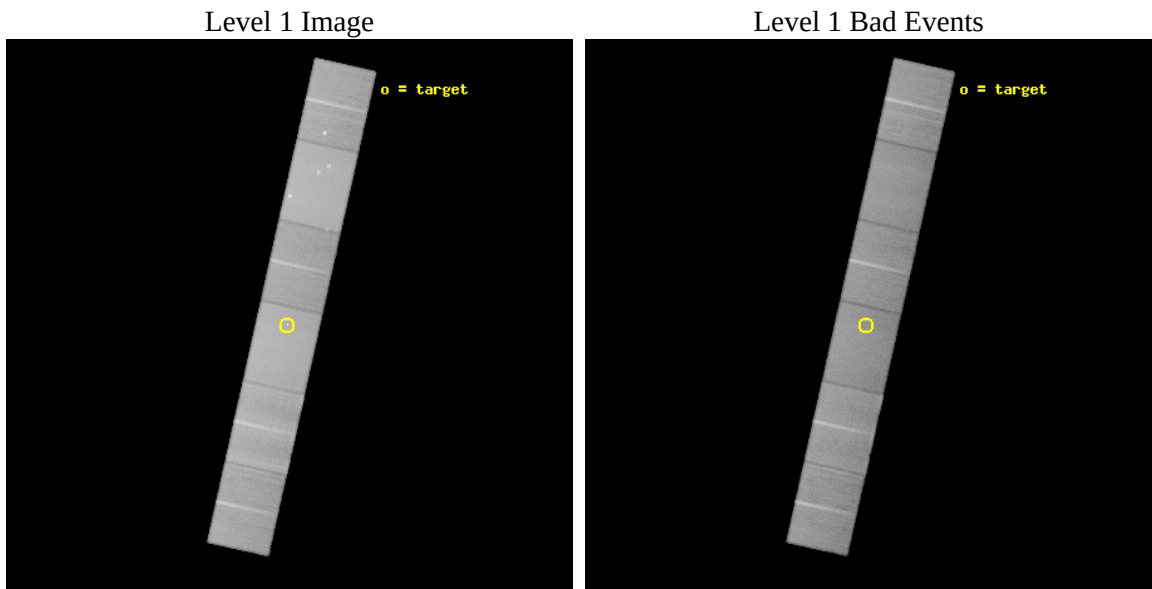
seq_num	300253	Sequence number
obs_id	11990	Observation id
title	CP Puppis, a template for the secular evolution of novae	Proposal
observer	Dr Marina Orio	Principal investigator
object	CP Puppis	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	122.942083	Observer's specified target RA [deg]
dec_targ	-35.351389	Observer's specified target Dec [deg]
ra_nom	122.93792925413	Nominal RA [deg]
dec_nom	-35.34792272886	Nominal Dec [deg]
roll_nom	102.65422969962	Nominal Roll [deg]
revision	2	Processing version of data
ontime	48037.5	Sum of GTIs [s]
livetime	47261.652709127	Livetime [s]
ontime4	48034.958979785	Sum of GTIs [s]
ontime5	48037.5	Sum of GTIs [s]
ontime6	48034.959009707	Sum of GTIs [s]
ontime7	48037.5	Sum of GTIs [s]
ontime8	48037.5	Sum of GTIs [s]
ontime9	48037.5	Sum of GTIs [s]
l2events	669482	Number of level 2 events



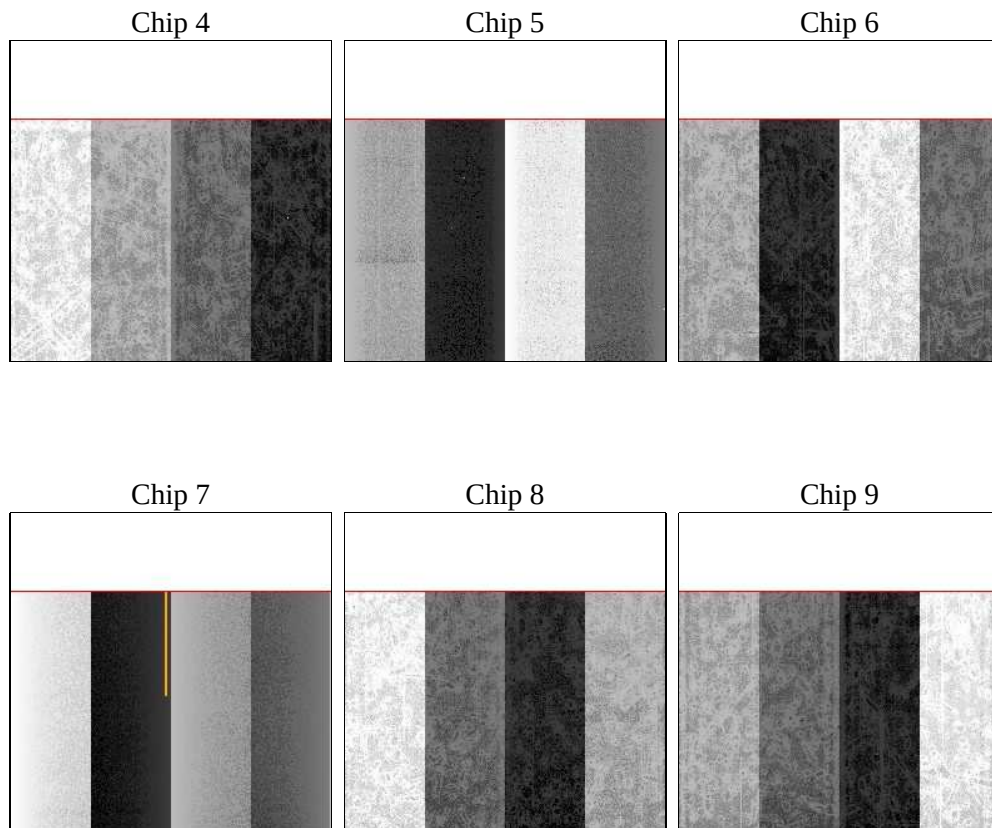
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	48000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	48037.5	Sum of GTIs [s]
caldsver	4.4.10	 	ontime4	48034.958979785	Sum of GTIs [s]
date	2012-06-14T14:10:36	Date and time of file creation	ontime5	48037.5	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	48034.959009707	Sum of GTIs [s]
			ontime7	48037.5	Sum of GTIs [s]
			ontime8	48037.5	Sum of GTIs [s]
			ontime9	48037.5	Sum of GTIs [s]
			l1events	2842744	Number of level 1 events

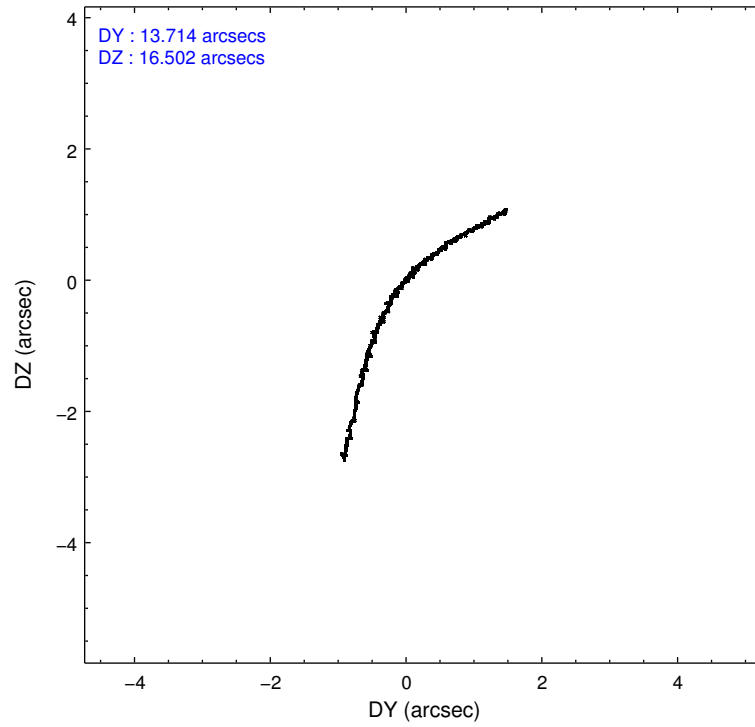
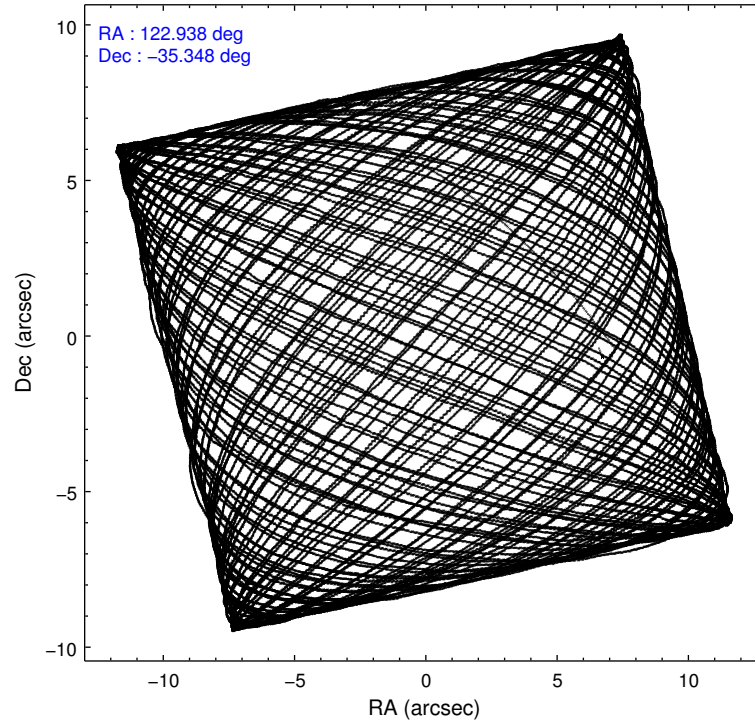
2.1.4 Events

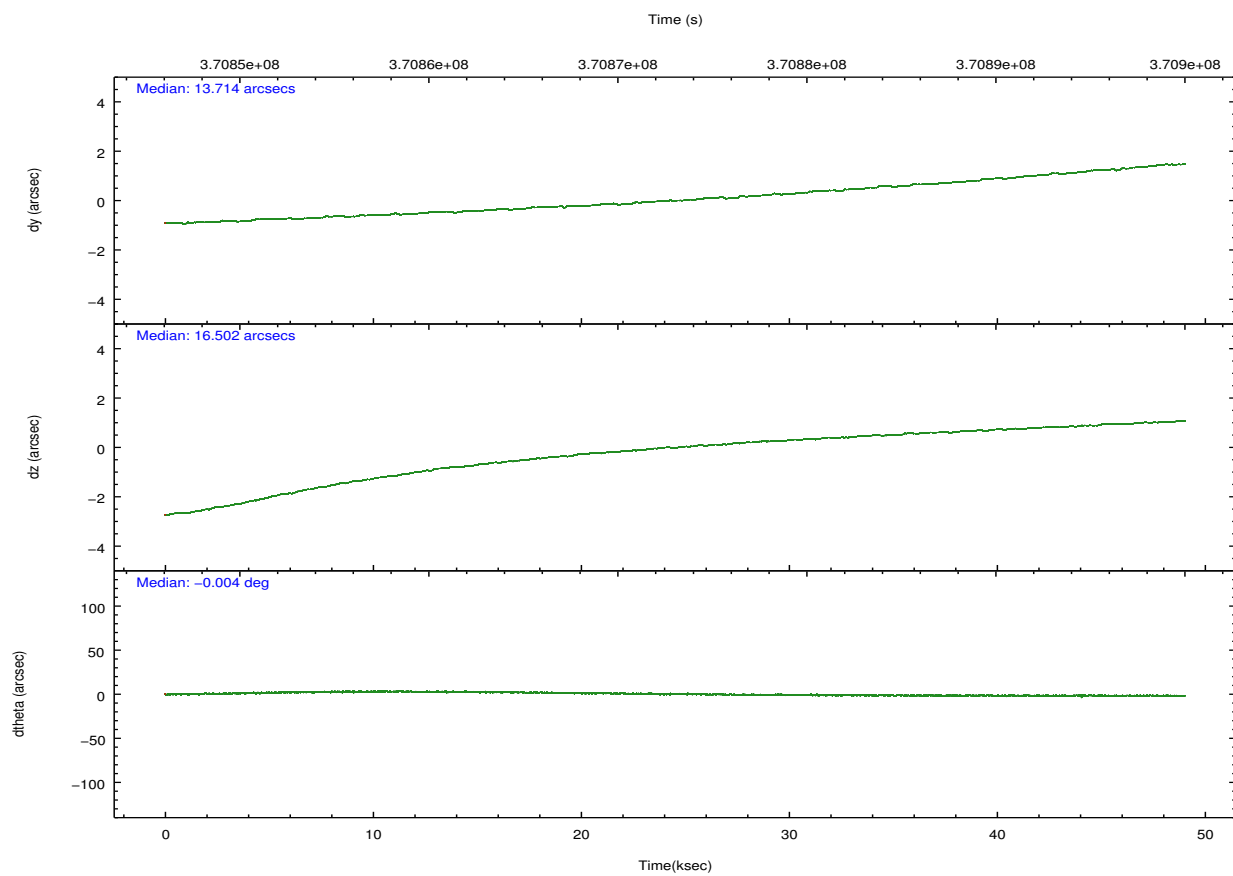
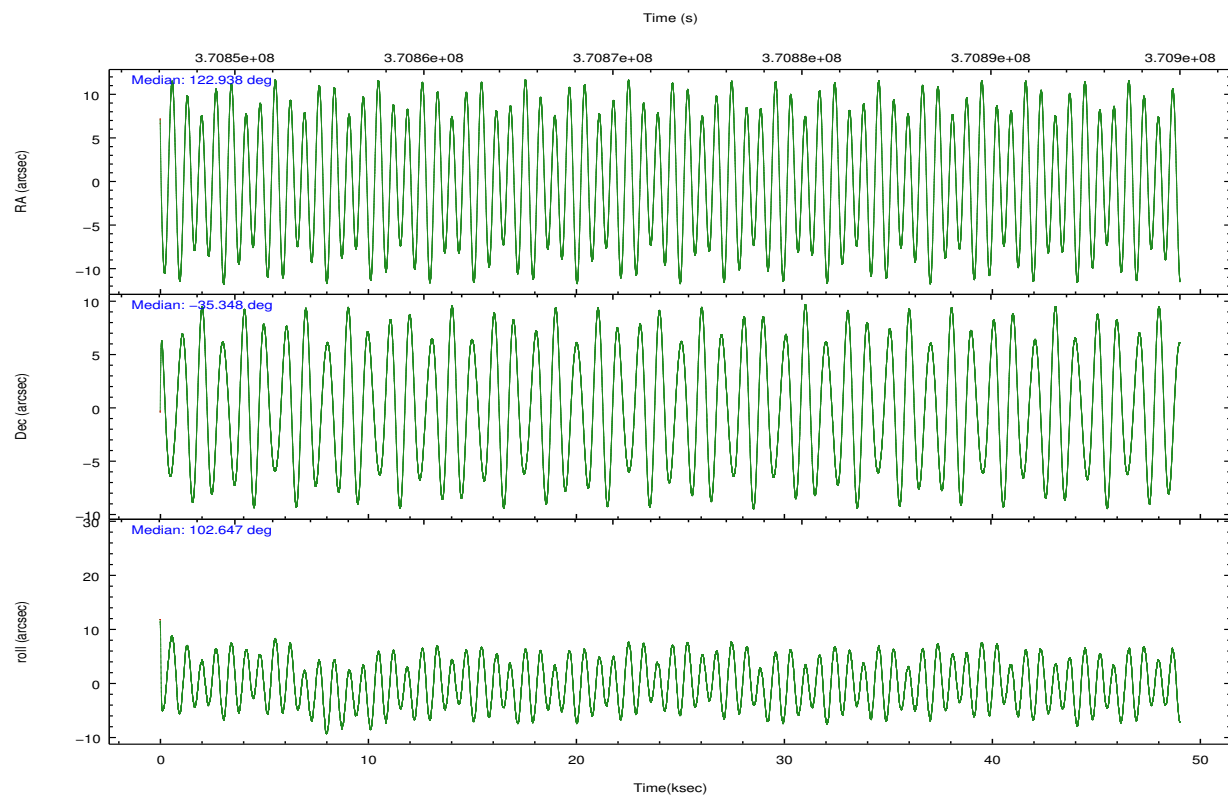
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	431073	603446	384776	541862	502873	378714	grade 0 events	27668	27563	19363	19531	36720	20212
rejected events	373569	321657	335552	311140	381763	328906		6%	4%	5%	3%	7%	5%
rejected %	86%	53%	87%	57%	75%	86%	grade 1 events	392	999	182	542	338	223
								0%	0%	0%	0%	0%	0%
							grade 2 events	11640	84959	10781	47969	27384	10176
								2%	14%	2%	8%	5%	2%
							grade 3 events	5095	11340	4653	19994	12529	4874
								1%	1%	1%	3%	2%	1%
							grade 4 events	4908	11079	4717	19788	11654	4797
								1%	1%	1%	3%	2%	1%
							grade 5 events	18027	43882	18468	49960	24663	19622
								4%	7%	4%	9%	4%	5%
							grade 6 events	8198	146881	9712	123458	32838	9752
								1%	24%	2%	22%	6%	2%
							grade 7 events	355145	276743	316900	260620	356747	309058
								82%	45%	82%	48%	70%	81%

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	122.960987	122.9379292541291	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	-35.367775	-35.34792272886047	Subarray start row	1	1
[deg] Pointing Roll	102.510949	102.6542296996227	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	-187.1228876879999			
[mm] SIM translation stage offset	-3	-3.009634895007935			
[s] Observation start time (MET)	370849530.184000	370847490.85373			
Observation start date	2009-10-02T05:44:24	2009-10-02T05:11:30			
[s] Observation end time (MET)	370897530.184000	370898364.68129			
Observation end date	2009-10-02T19:04:24	2009-10-02T19:19:24			
Read mode	TIMED	TIMED			

2.3 Aspect



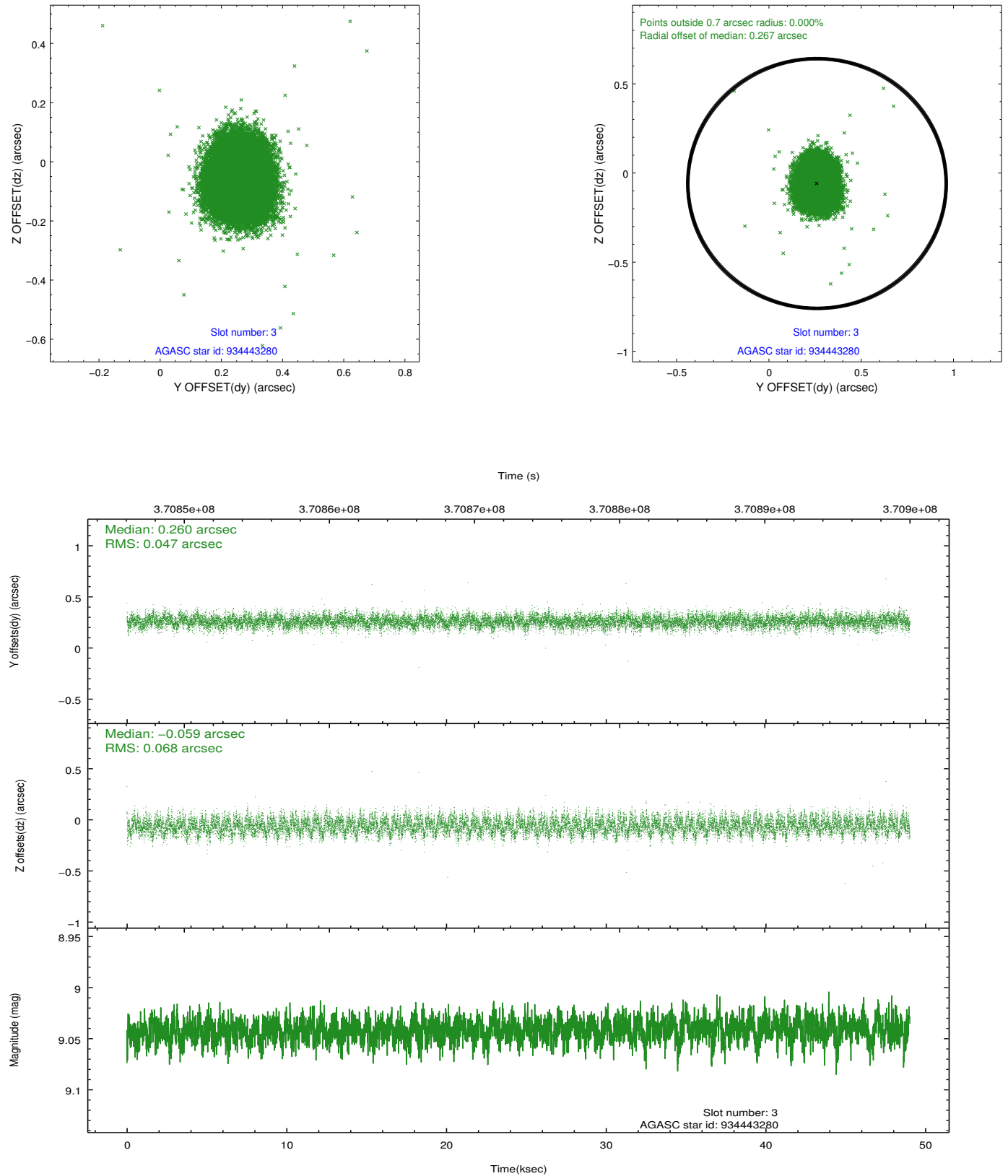


Slot Statistics

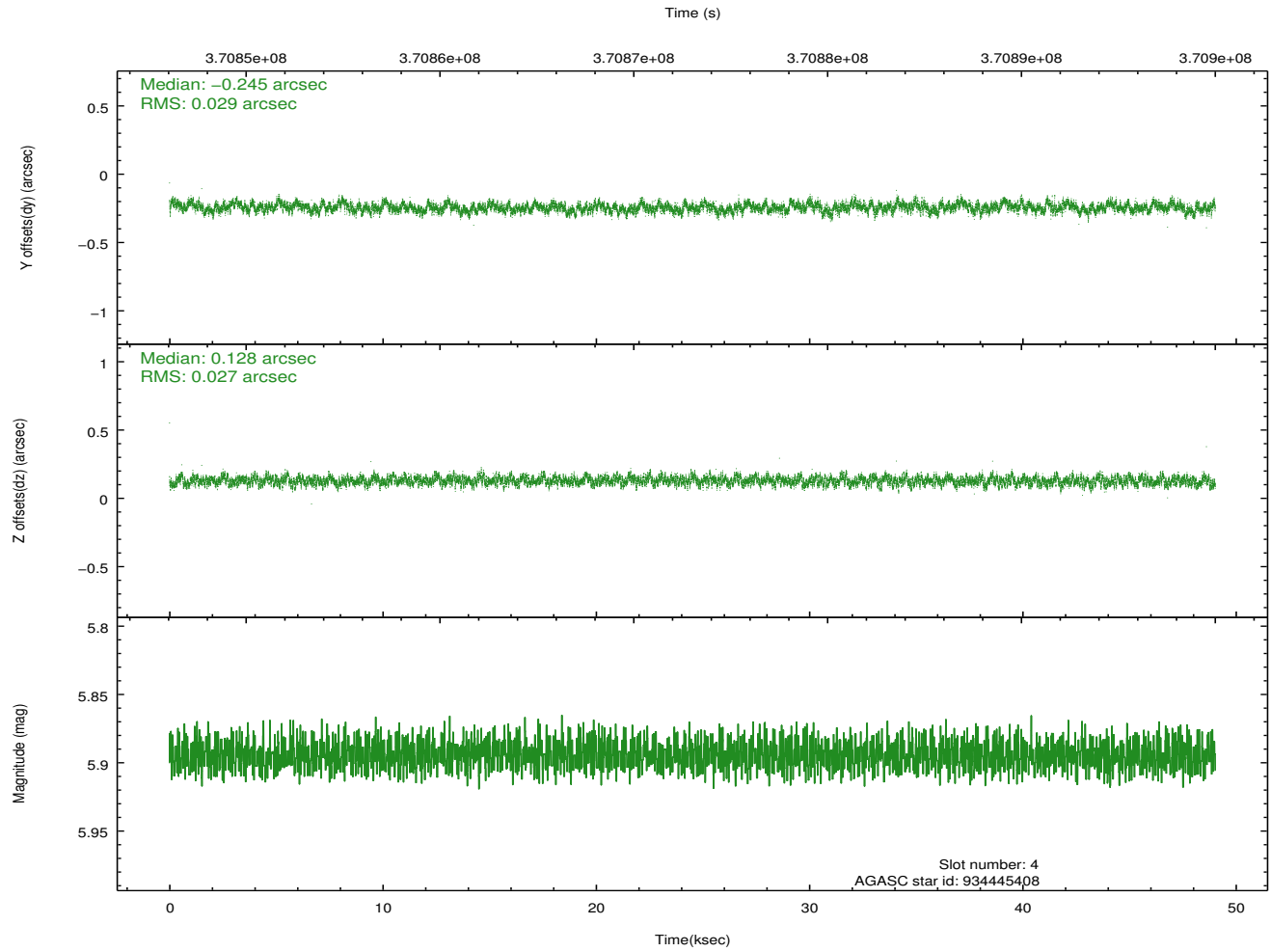
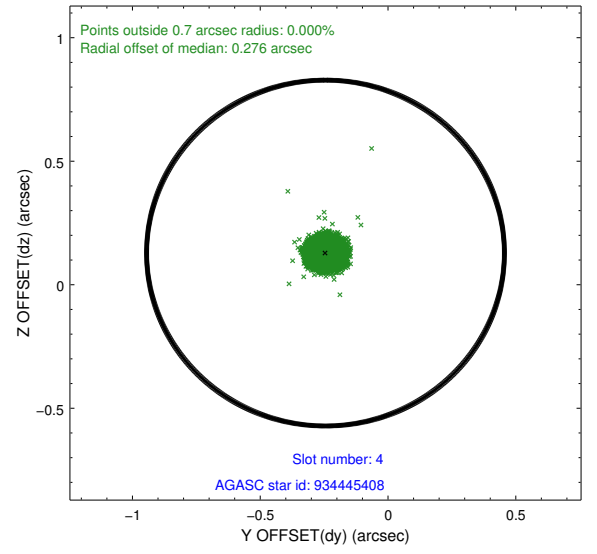
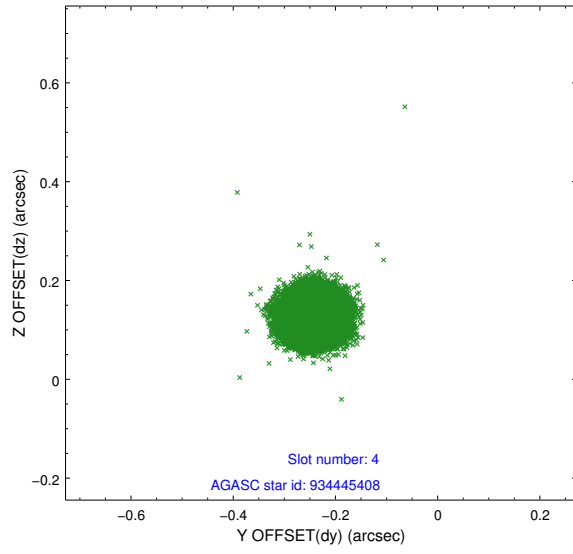
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.87	11959	-0.098	-0.063	0.027	0.039	0.000000	0.000000	-766.64	-1799.83
1	FID	ACIS-S-4	6.94	11958	0.192	0.065	0.029	0.044	0.000000	0.000000	2146.93	108.80
2	FID	ACIS-S-5	6.99	11959	-0.120	0.004	0.022	0.031	0.000000	0.000000	-1819.53	102.37
3	GUIDE	934443280	9.04	23894	0.260	-0.059	0.088	0.142	123.348771	-35.369207	-253.02	-1109.52
4	GUIDE	934445408	5.89	23918	-0.245	0.128	0.043	0.067	123.155863	-35.146509	652.93	-732.12
5	GUIDE	934448384	9.37	23900	0.105	0.084	0.081	0.133	123.060299	-35.434250	-296.44	-232.31
6	GUIDE	934449128	9.16	23883	0.024	-0.100	0.098	0.161	122.610732	-35.593771	-573.79	1177.63
7	GUIDE	934449184	6.92	23909	-0.145	-0.056	0.065	0.102	123.461425	-35.208271	238.37	-1560.42

2.4 Star Slots

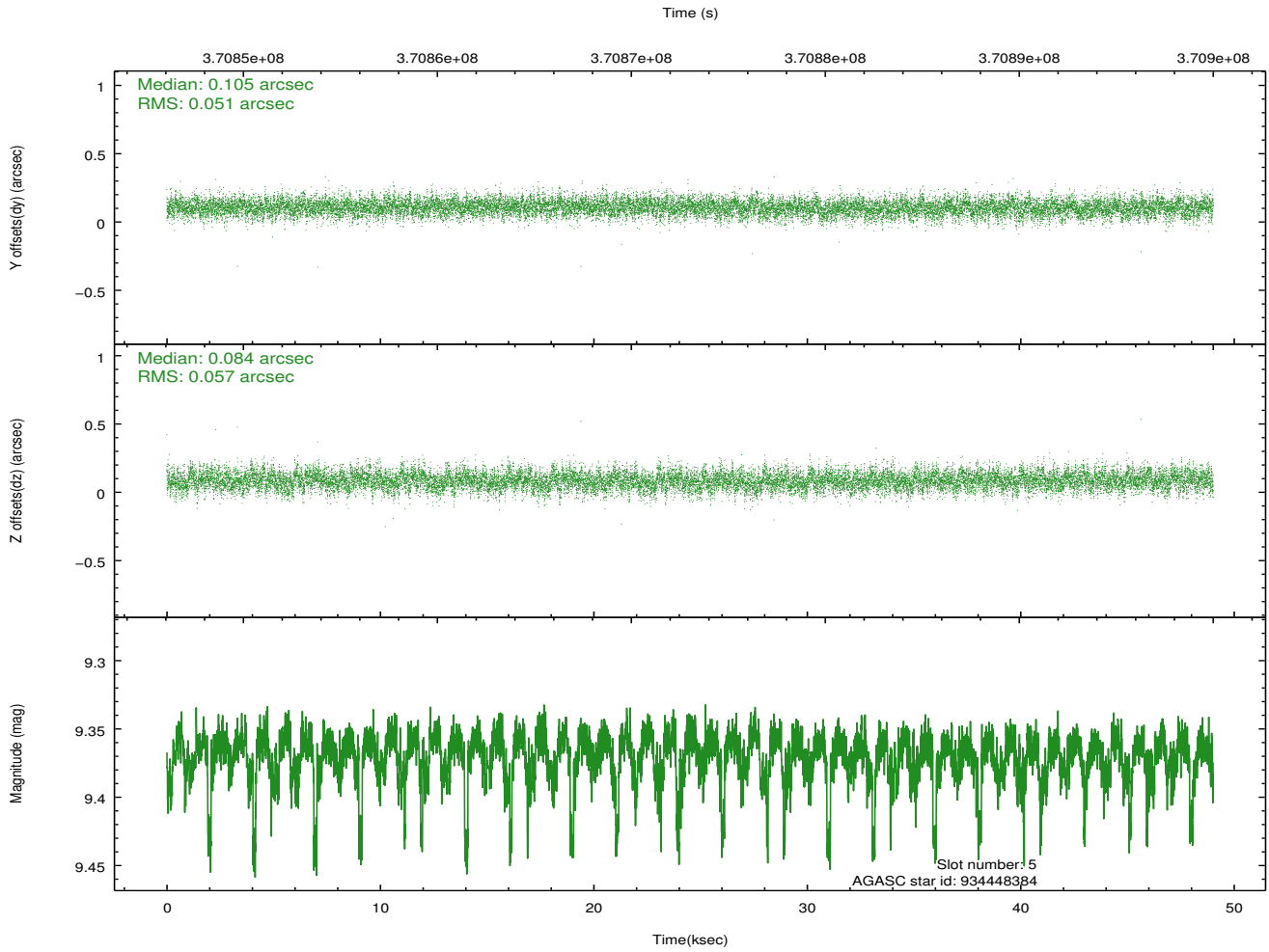
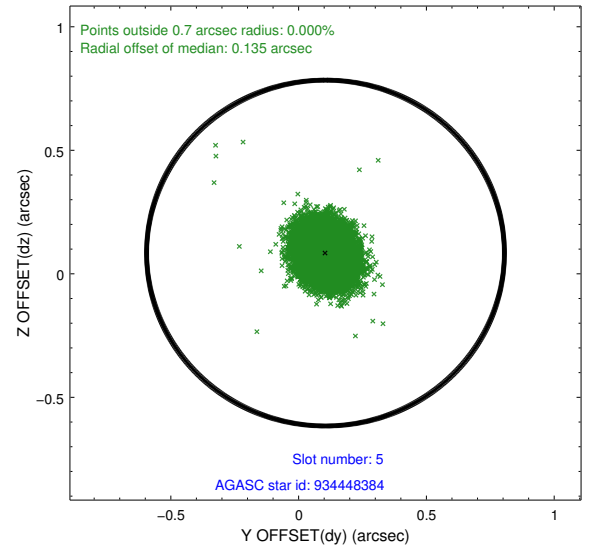
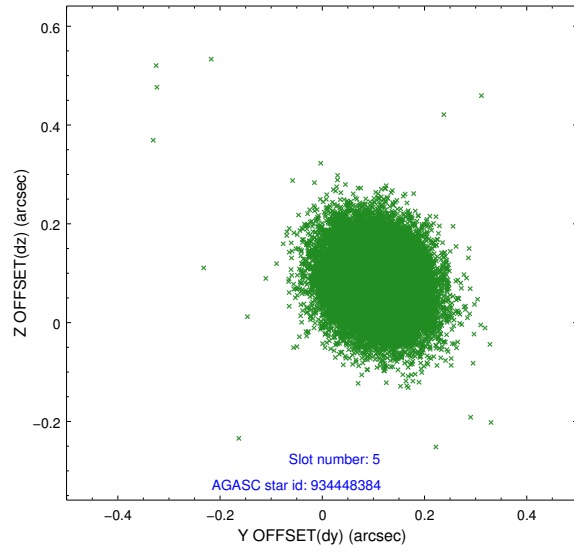
2.4.1 Slot 3



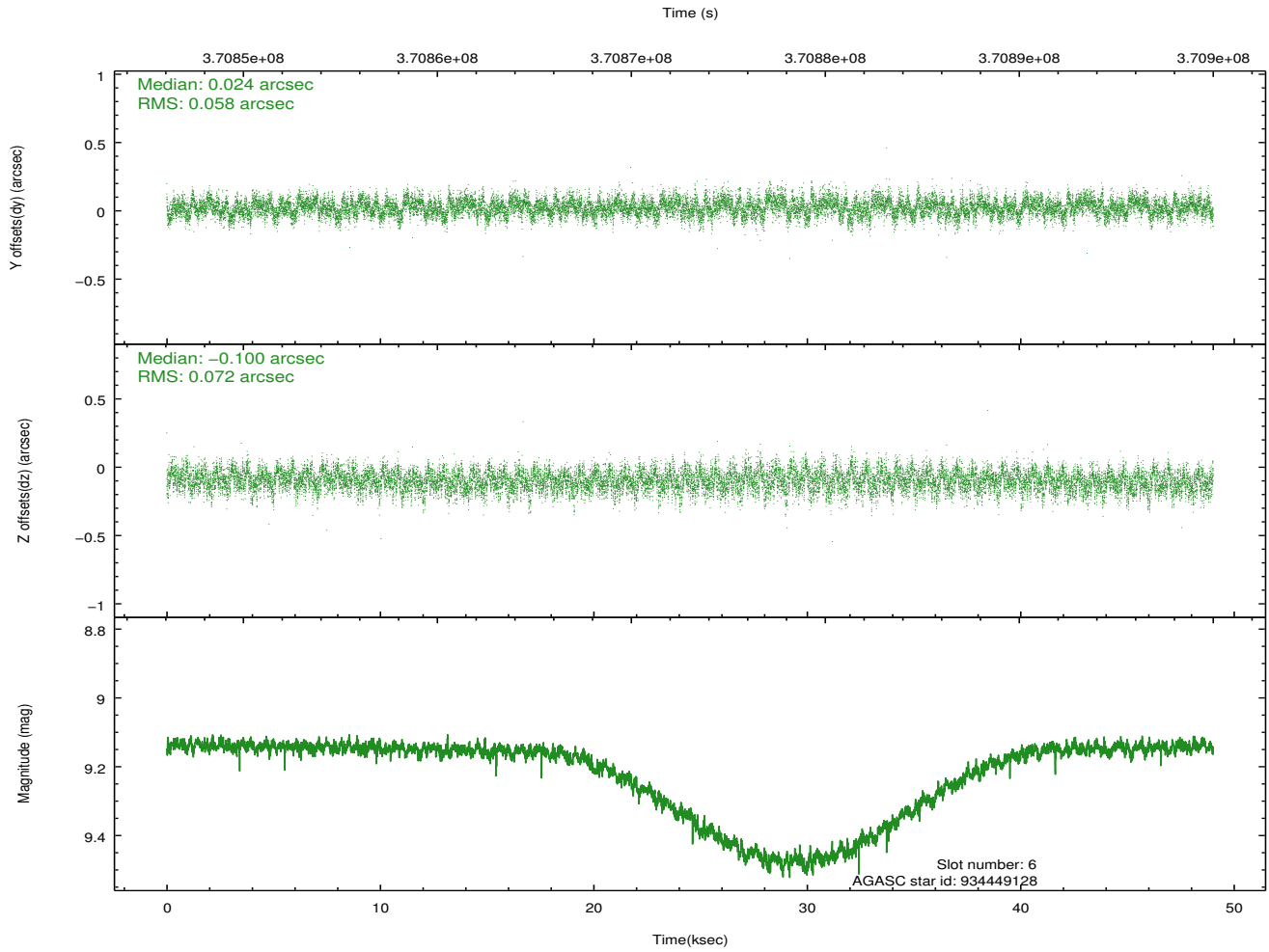
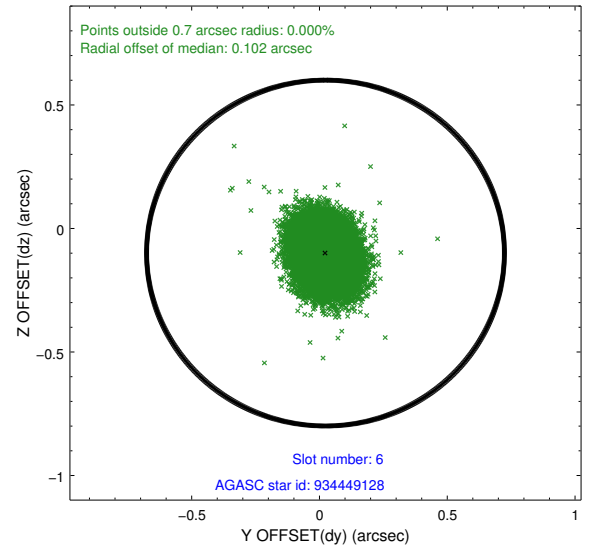
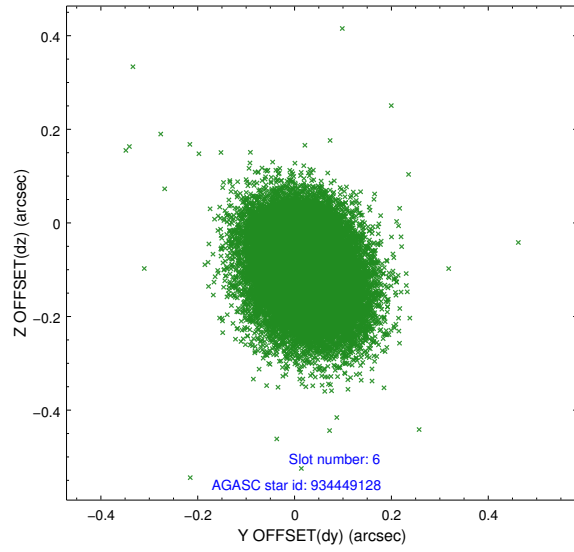
2.4.2 Slot 4



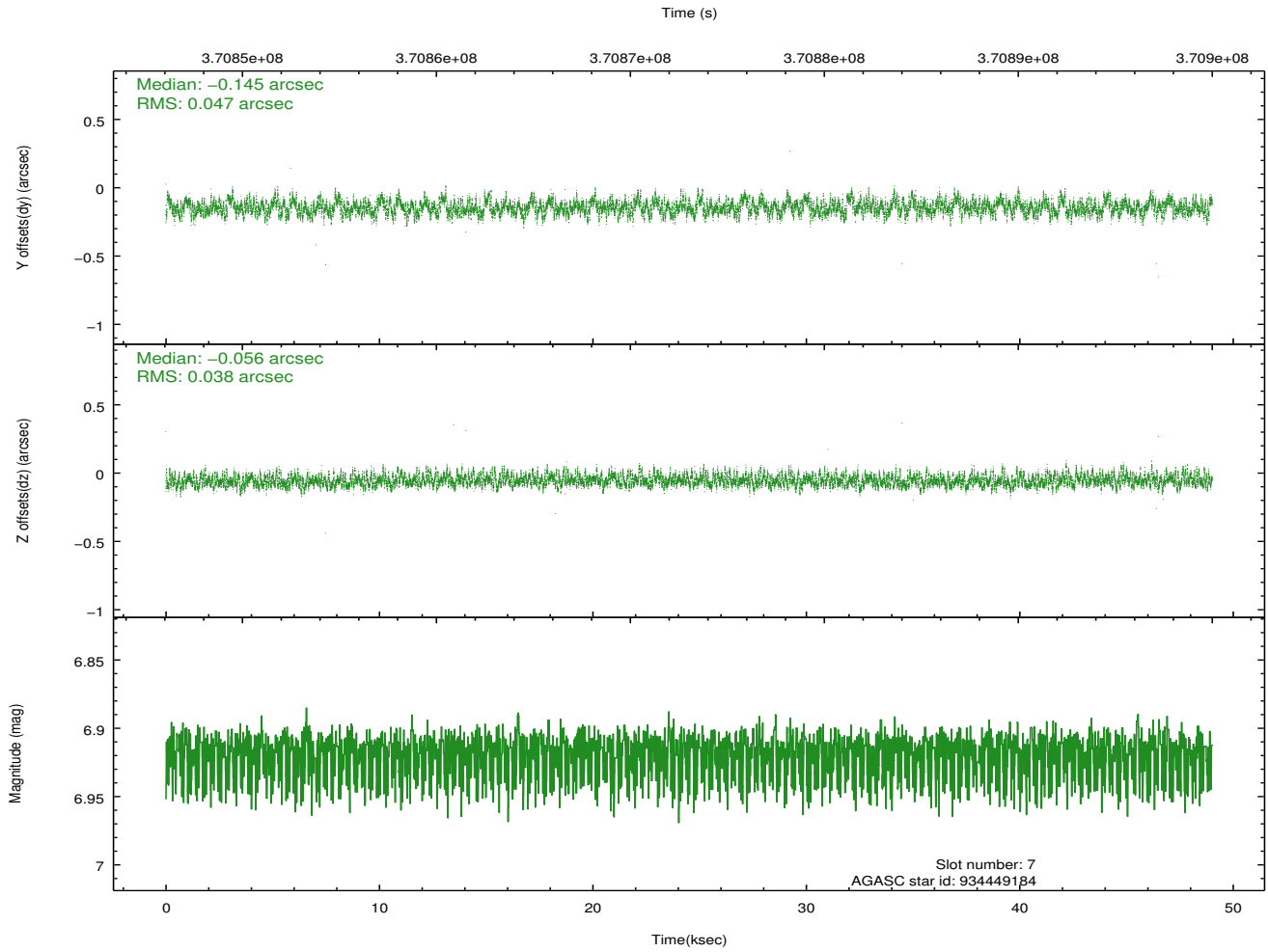
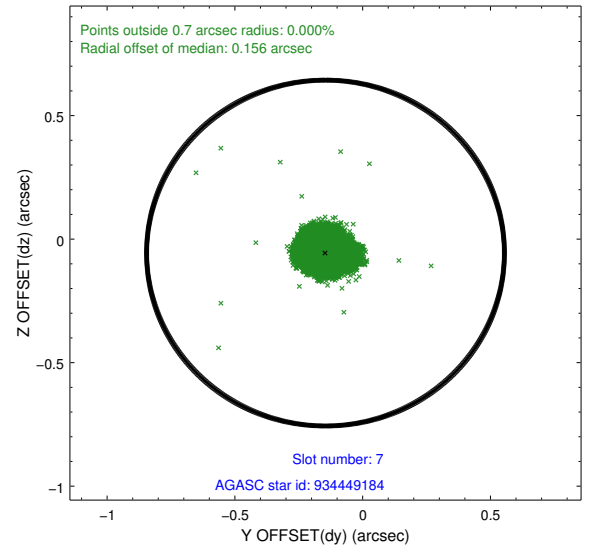
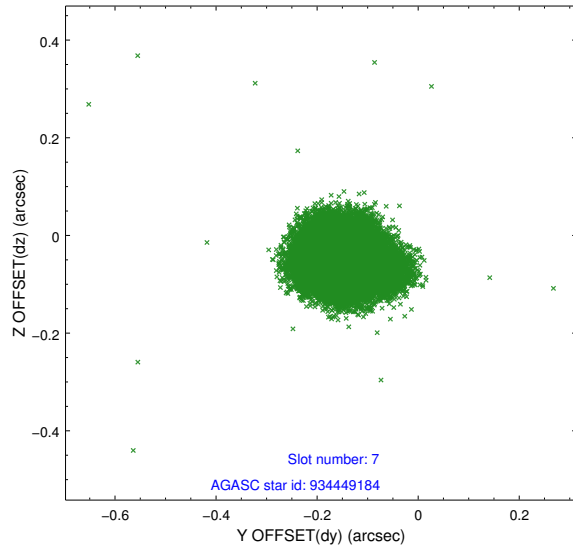
2.4.3 Slot 5



2.4.4 Slot 6

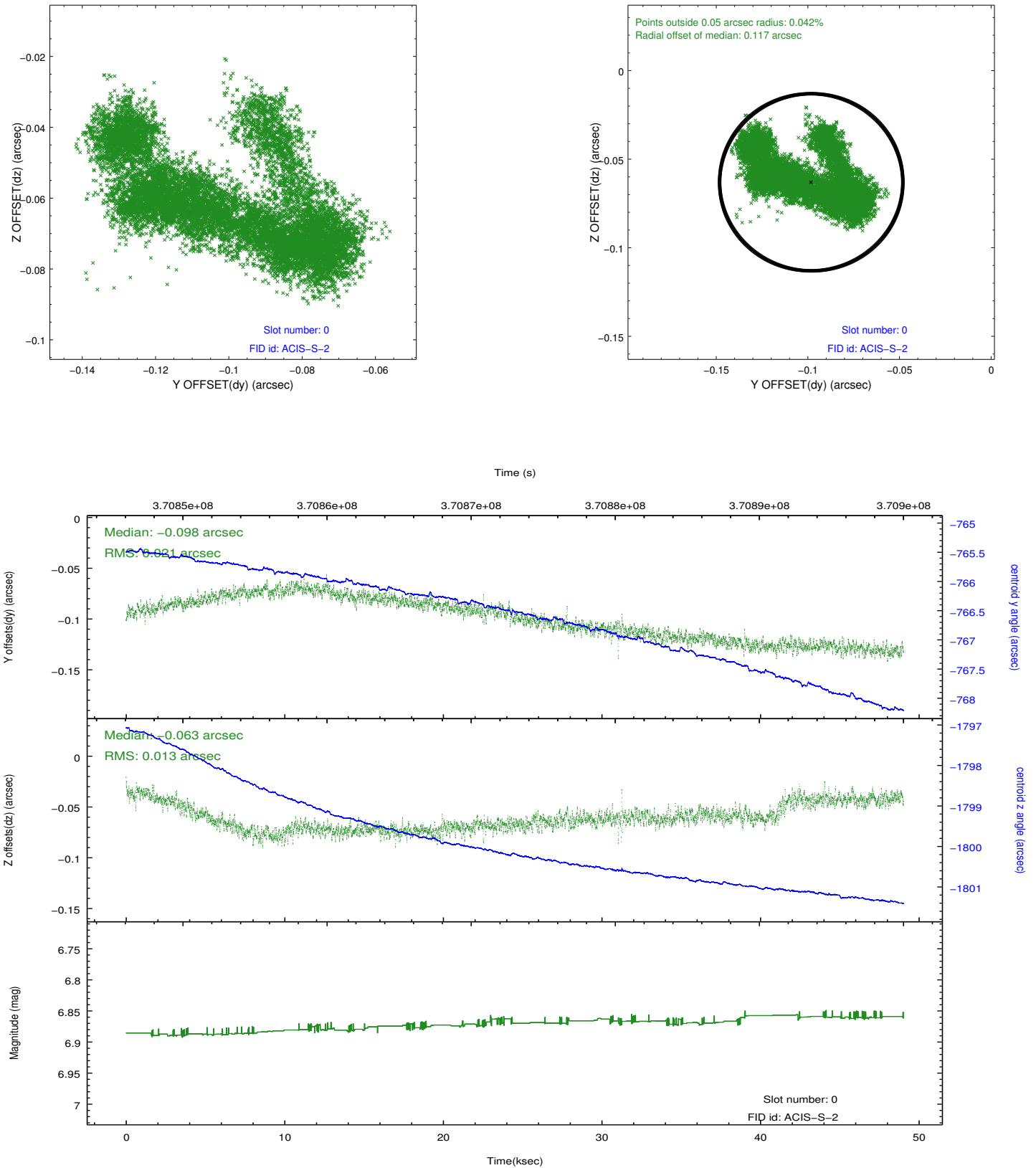


2.4.5 Slot 7

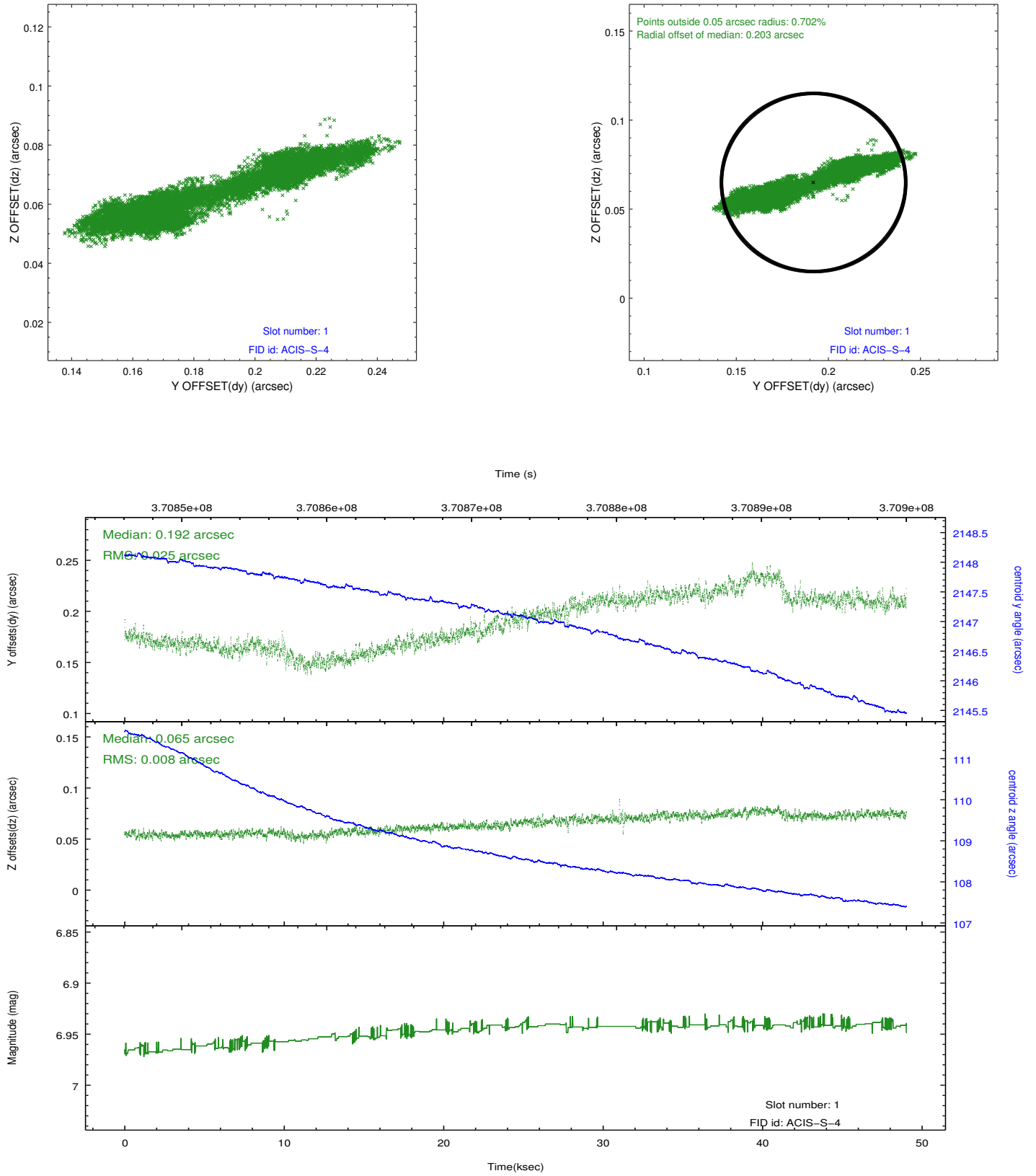


2.5 FID Slots

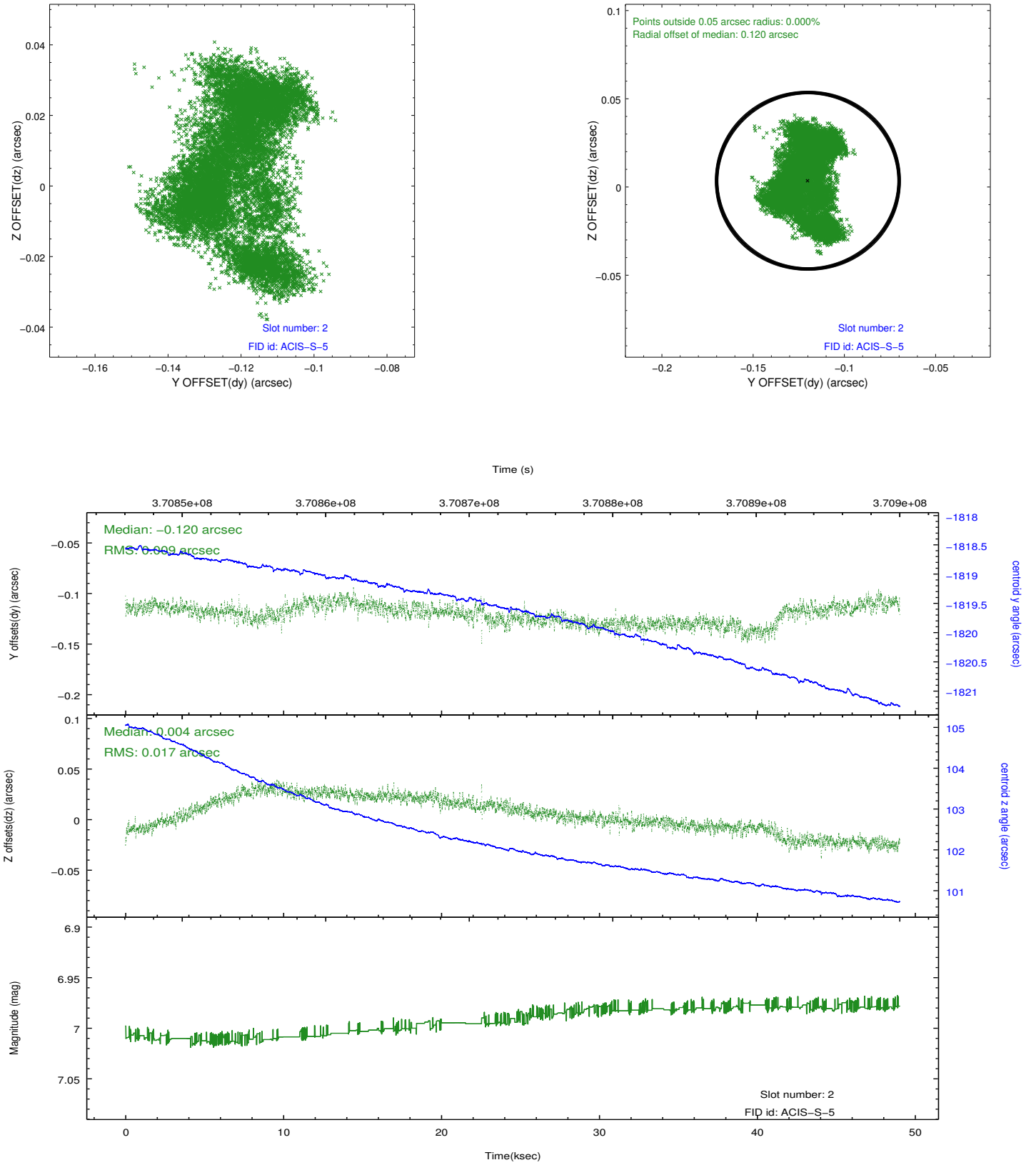
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

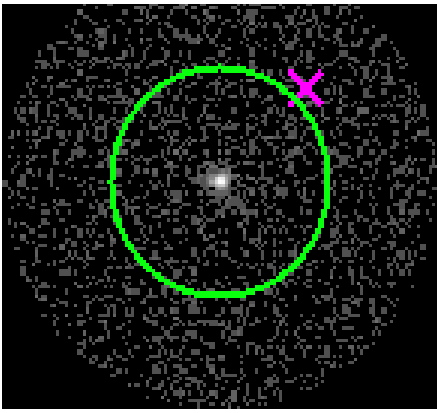


3 Gratings

3.1 HEG Arm



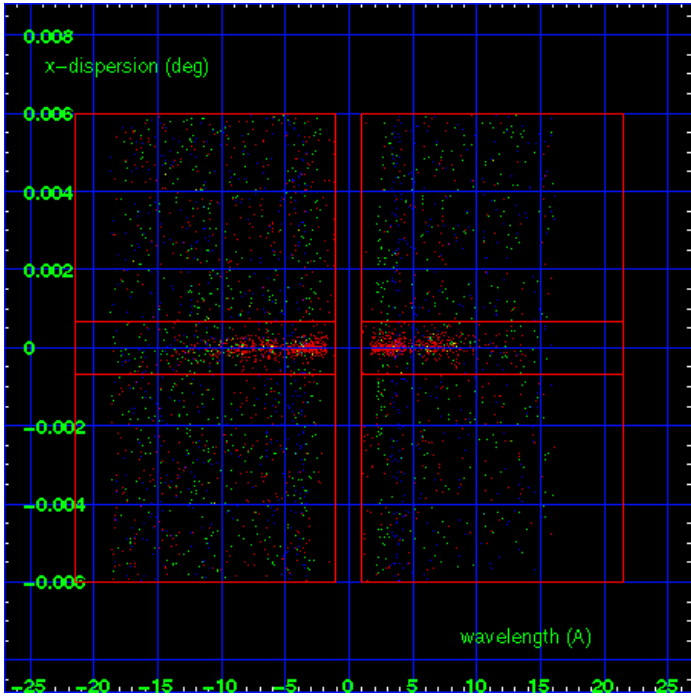
HEG Order Sort 123



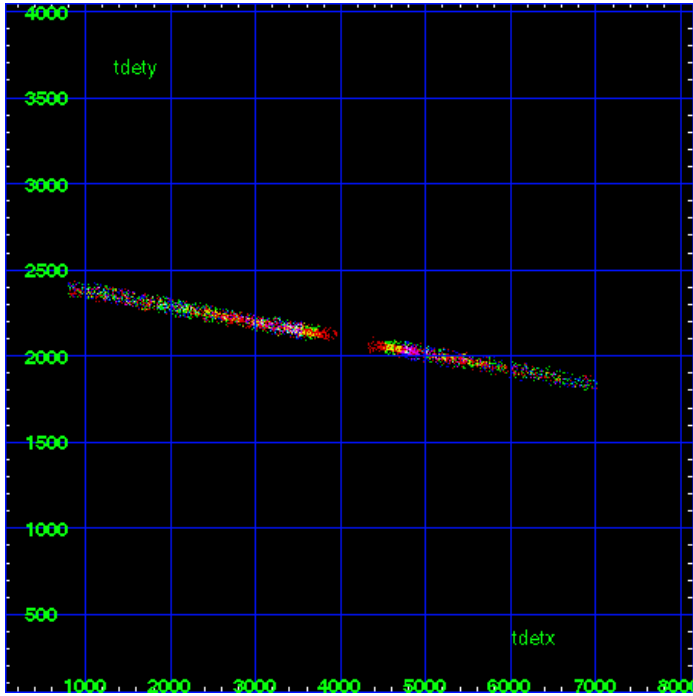
HEG Zero Order



HEG Order Sort ALL

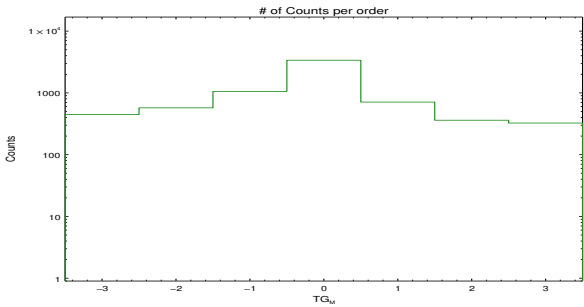


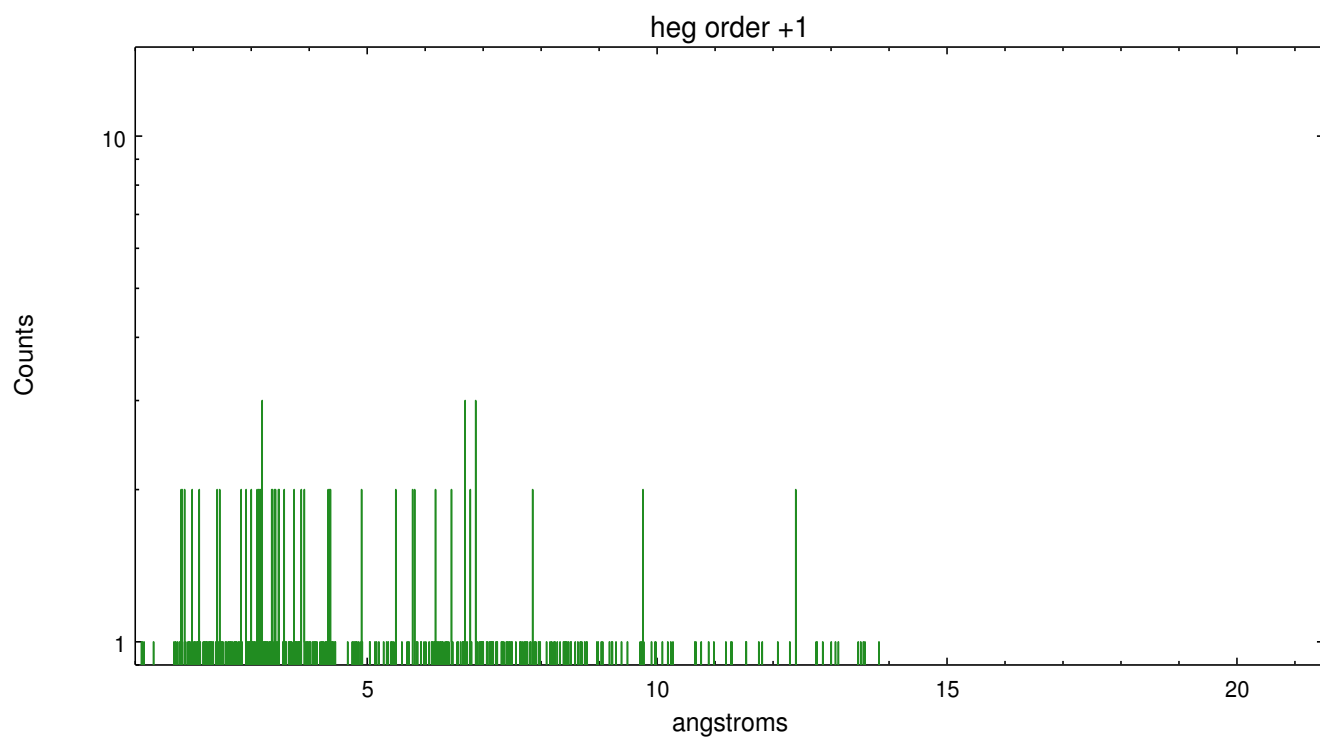
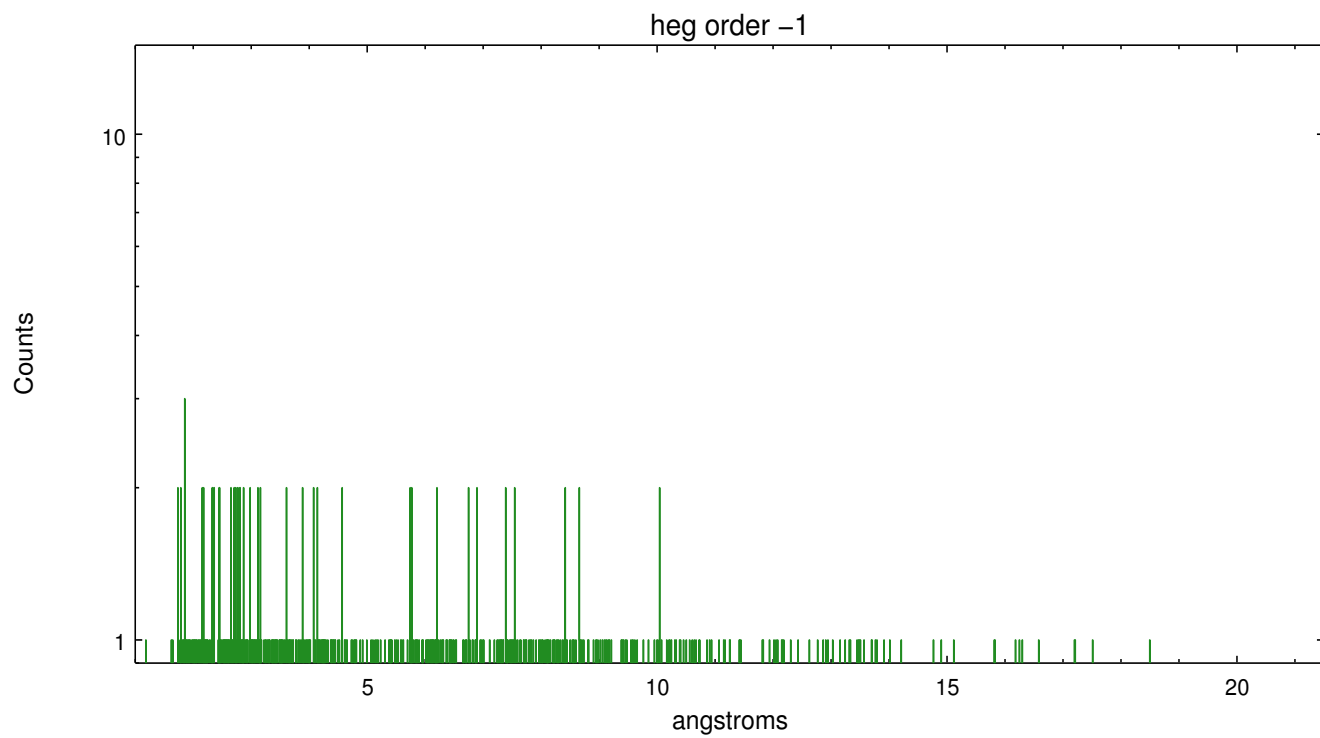
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	447	573	1057	3380	710	361	325

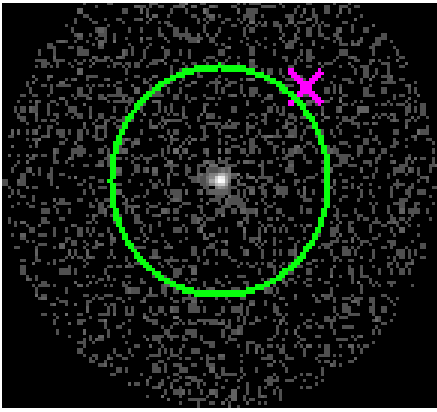




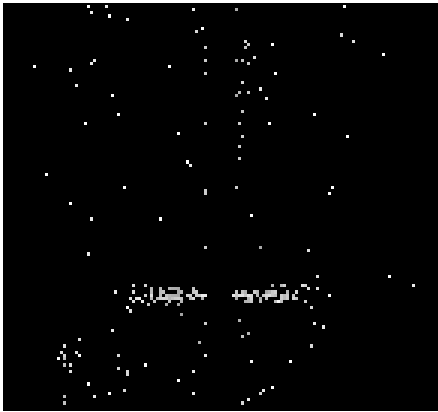
3.2 MEG Arm



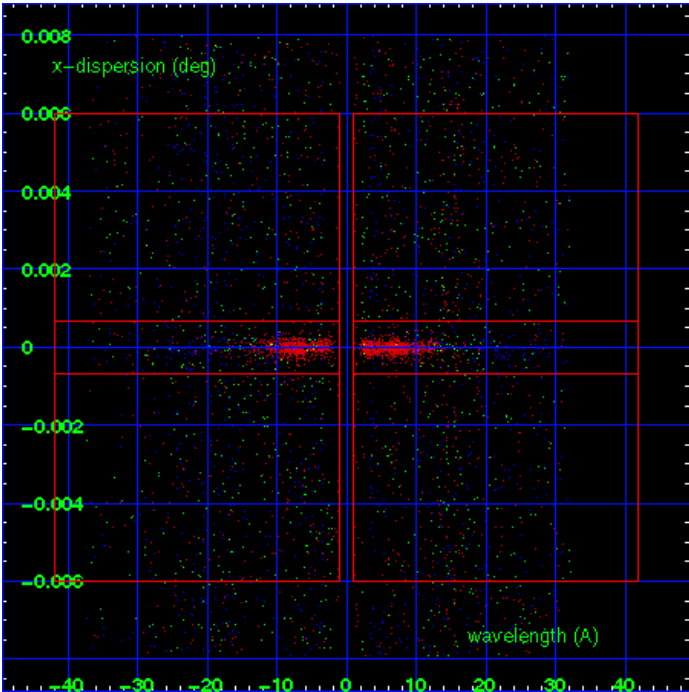
MEG Order Sort 123



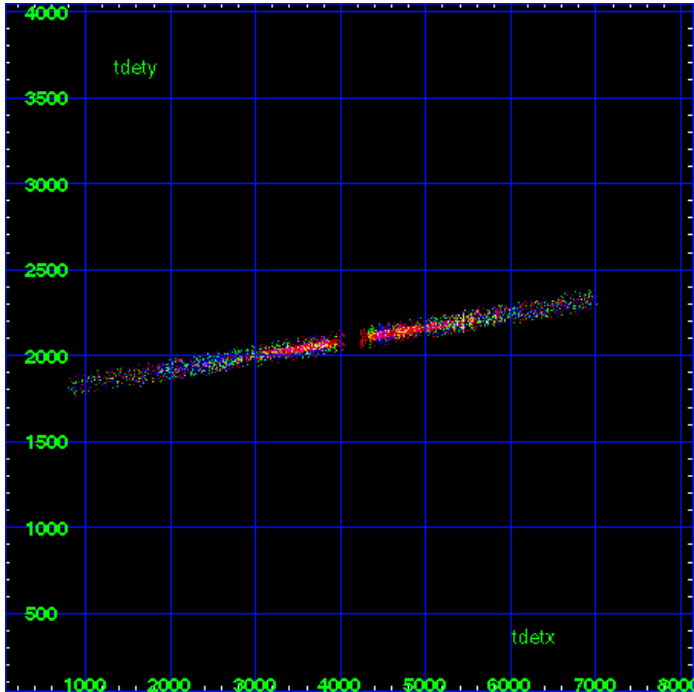
MEG Zero Order



MEG Order Sort ALL

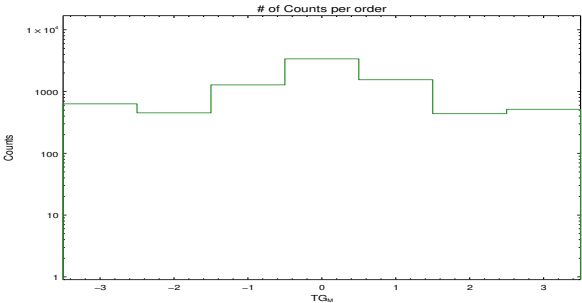


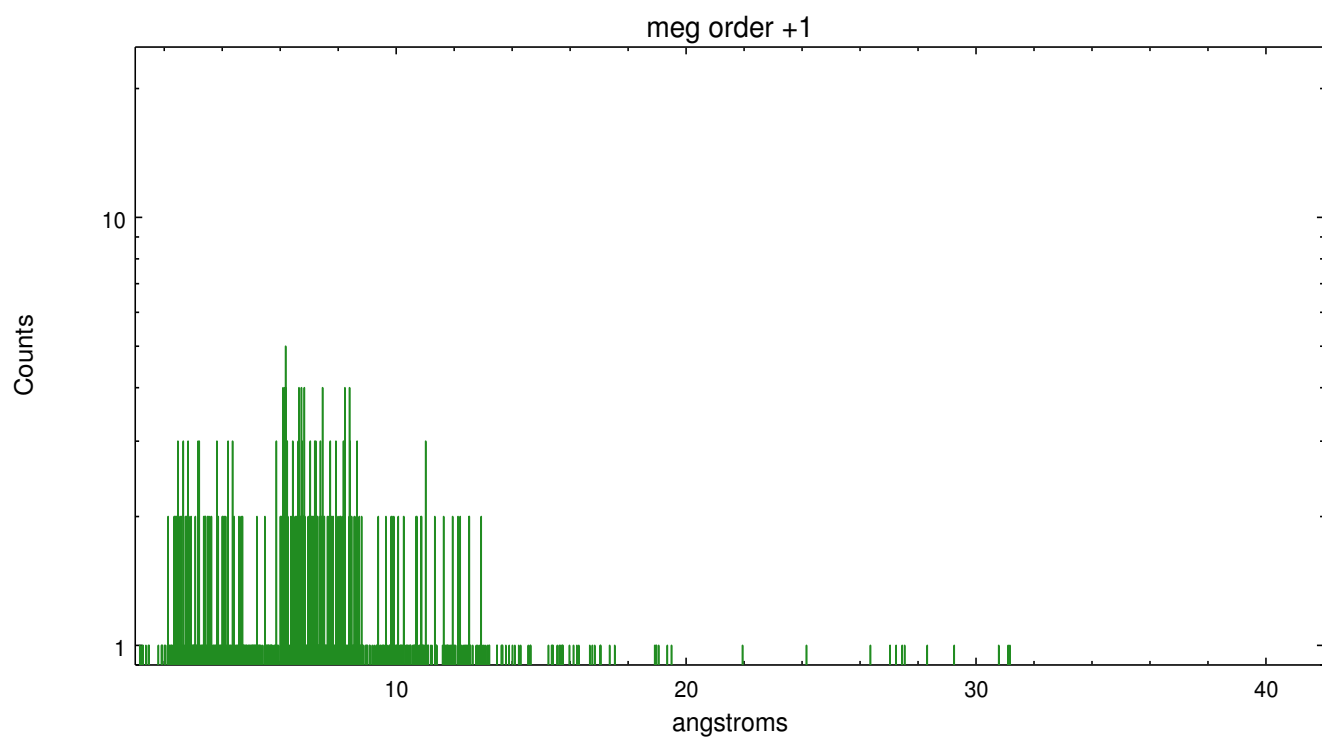
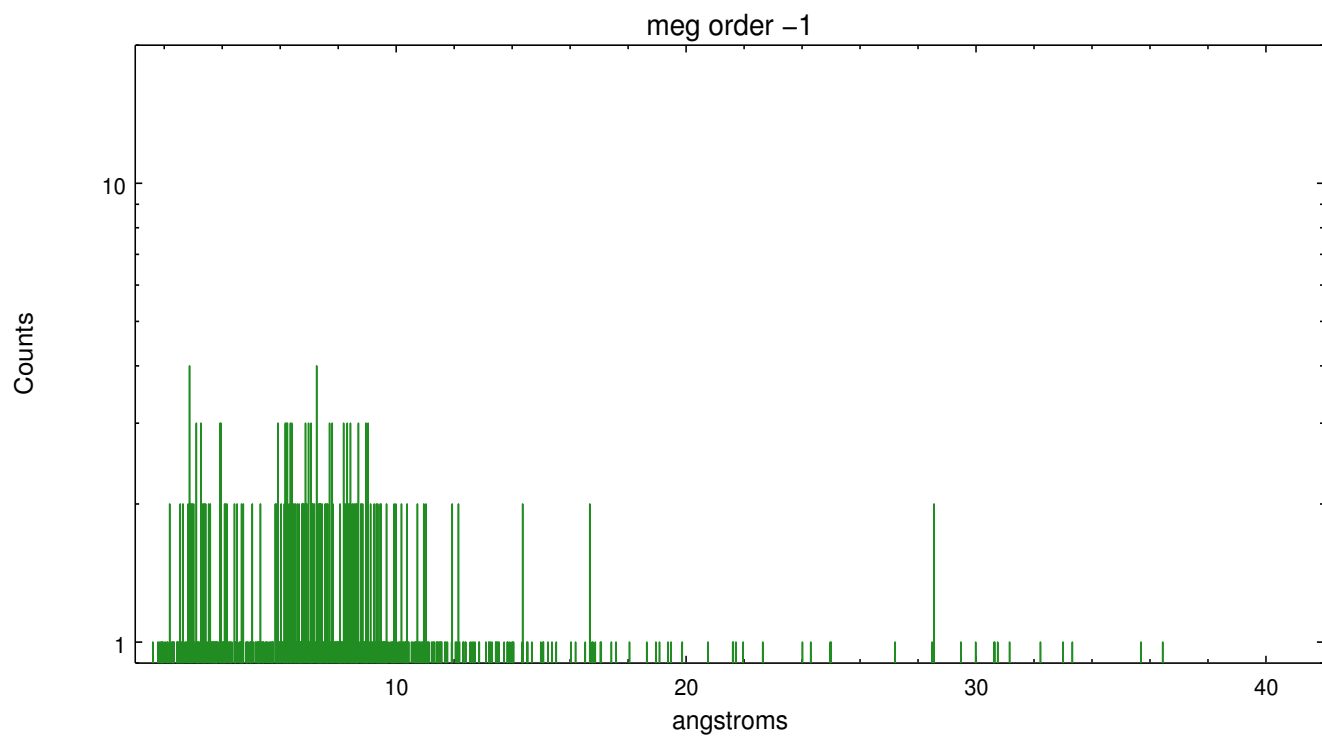
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	632	452	1282	3380	1553	438	516





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.039744564712

A.2 Comments

Joint proposal with NOAO.