

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12012 - L2 Version 2
Chandra X-Ray Center

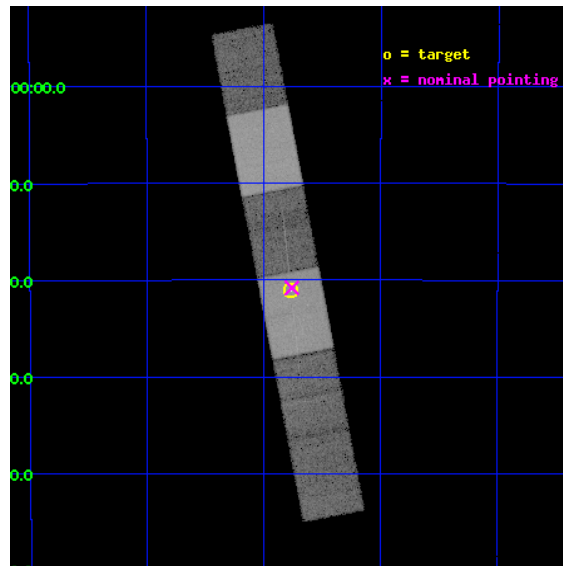
L2 Processing Date : Jun 15 2012

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1 Front

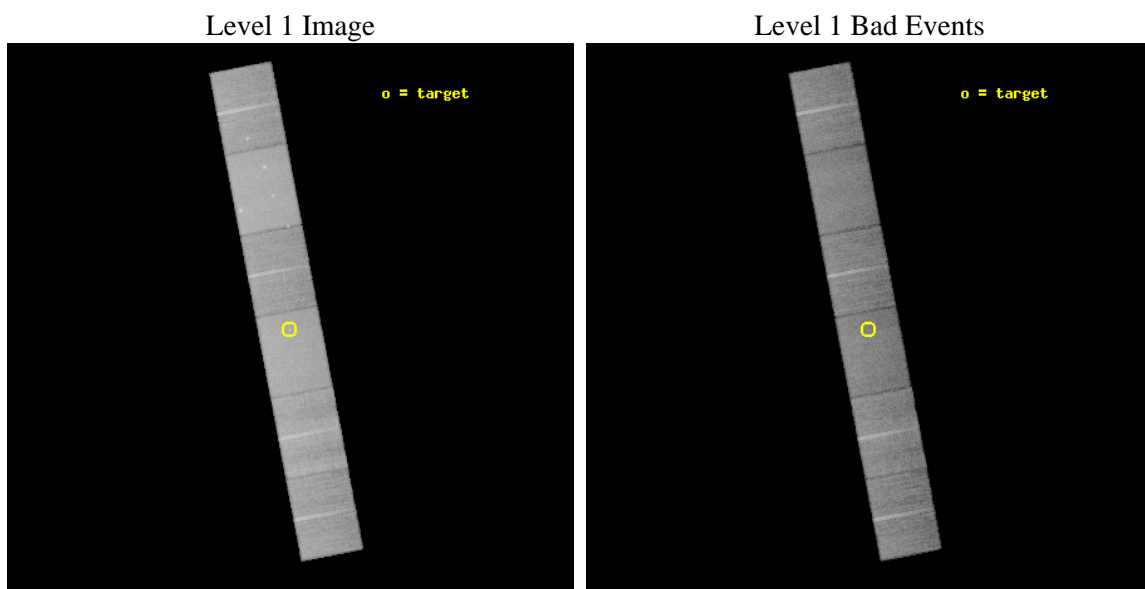
seq_num	300253	Sequence number
obs_id	12012	Observation id
title	CP Puppis, a template for the secular evolution of novae	Proposal
observer	Dr Marina Orio	Principal investigator
object	CP Puppis	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	122.942083	Observer's specified target RA [deg]
dec_targ	-35.351389	Observer's specified target Dec [deg]
ra_nom	122.93996954719	Nominal RA [deg]
dec_nom	-35.346843628603	Nominal Dec [deg]
roll_nom	79.15540334913	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20039.432023406	Sum of GTIs [s]
livetime	19715.777814798	Livetime [s]
ontime4	20039.473063409	Sum of GTIs [s]
ontime5	20039.390983403	Sum of GTIs [s]
ontime6	20039.349943399	Sum of GTIs [s]
ontime7	20039.432023406	Sum of GTIs [s]
ontime8	20039.308903396	Sum of GTIs [s]
ontime9	20036.726873159	Sum of GTIs [s]
l2events	276913	Number of level 2 events



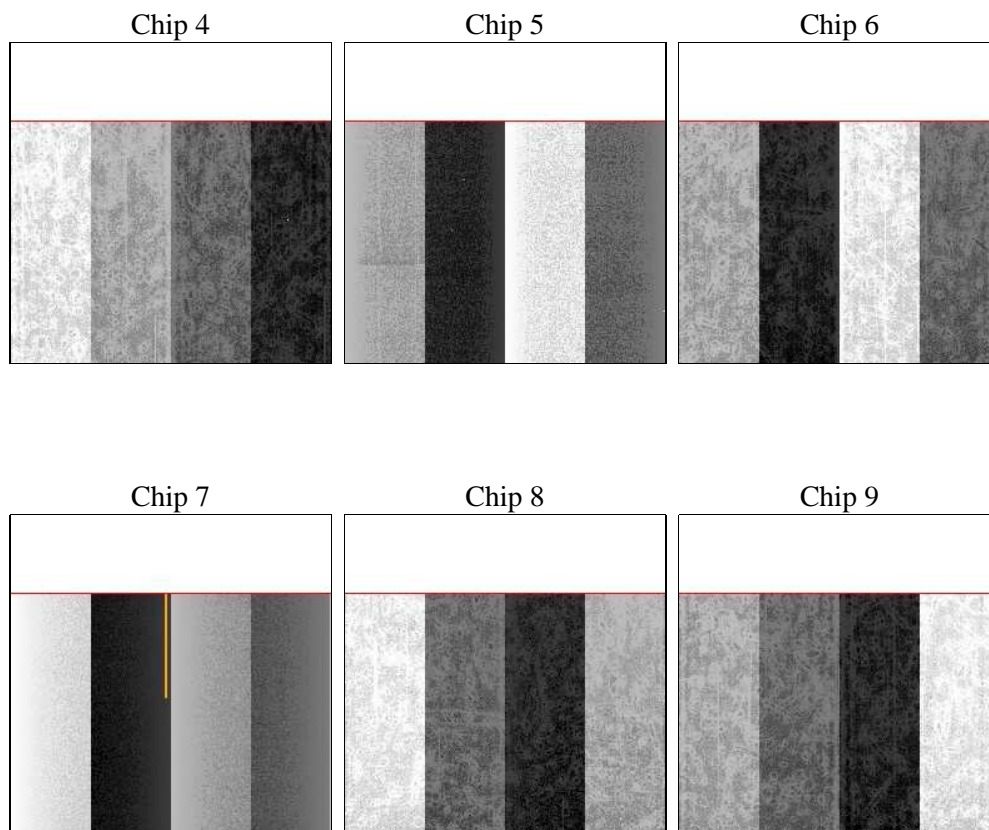
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	20039.432023406	Sum of GTIs [s]
caldsver	4.4.10	 	ontime4	20039.473063409	Sum of GTIs [s]
date	2012-06-15T01:26:17	Date and time of file creation	ontime5	20039.390983403	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	20039.349943399	Sum of GTIs [s]
			ontime7	20039.432023406	Sum of GTIs [s]
			ontime8	20039.308903396	Sum of GTIs [s]
			ontime9	20036.726873159	Sum of GTIs [s]
			l1events	1169929	Number of level 1 events

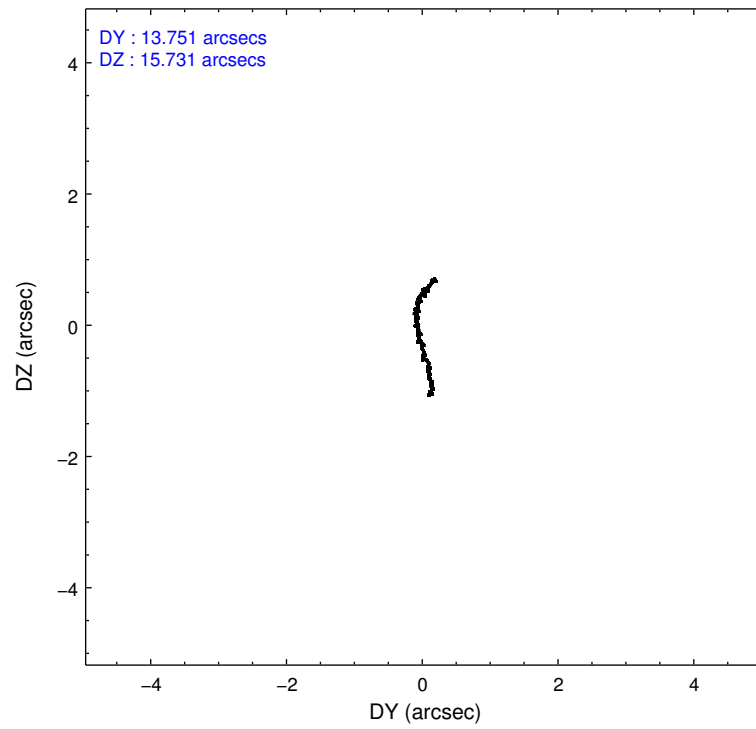
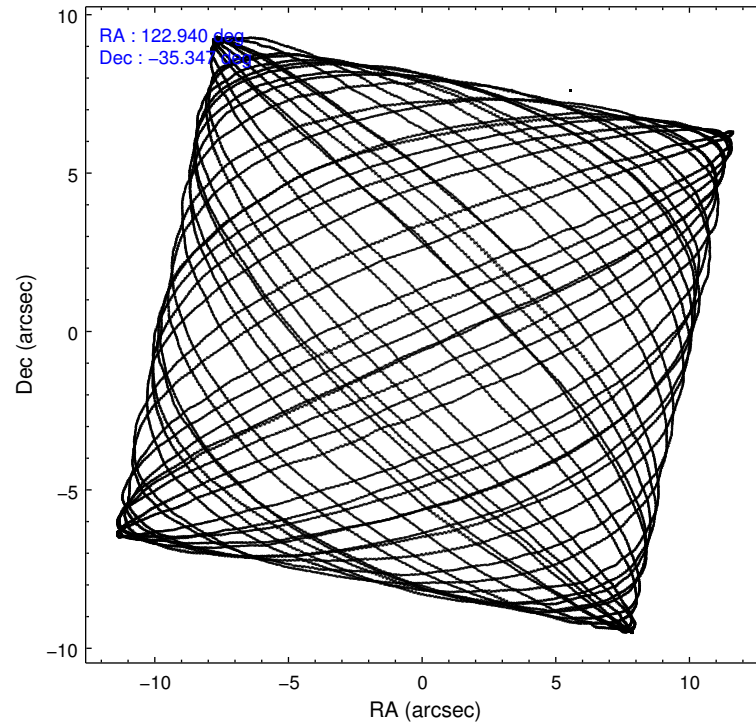
2.1.4 Events

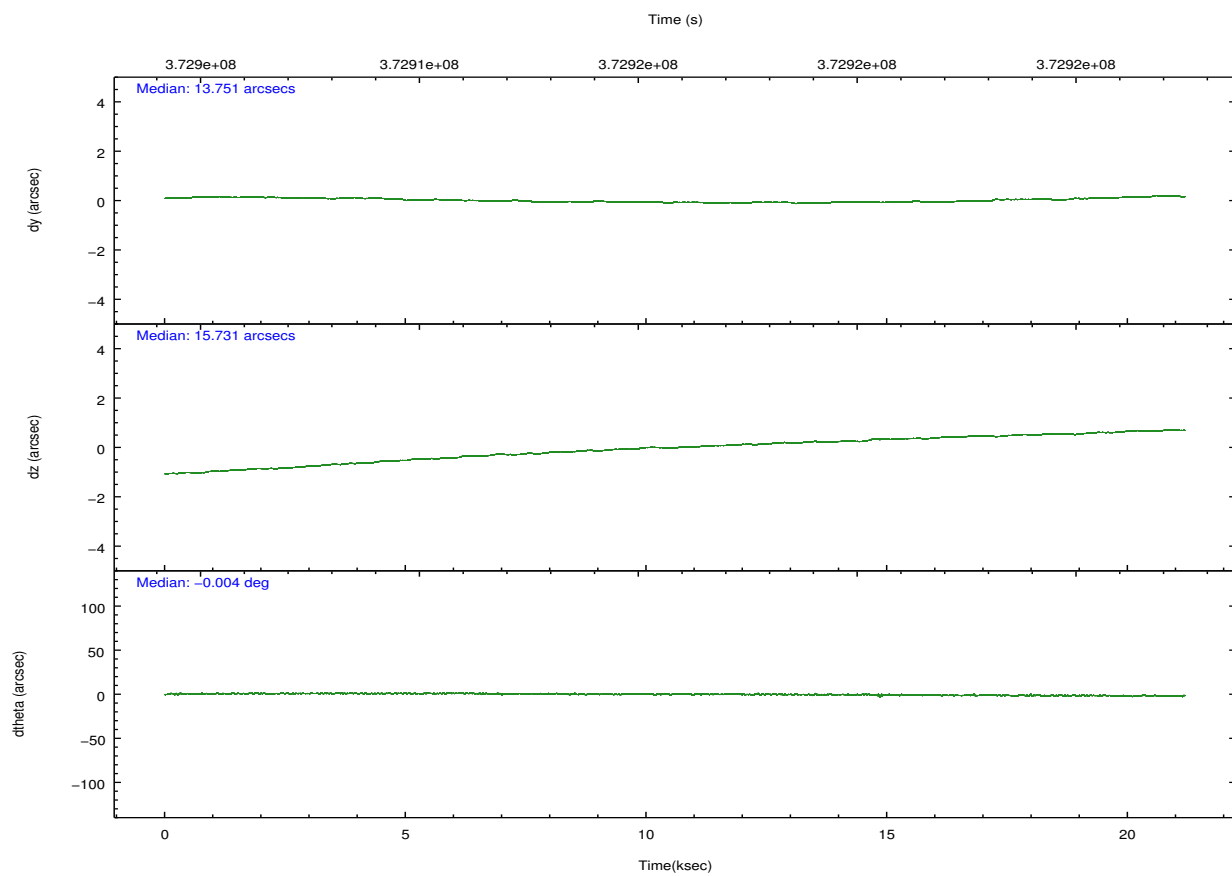
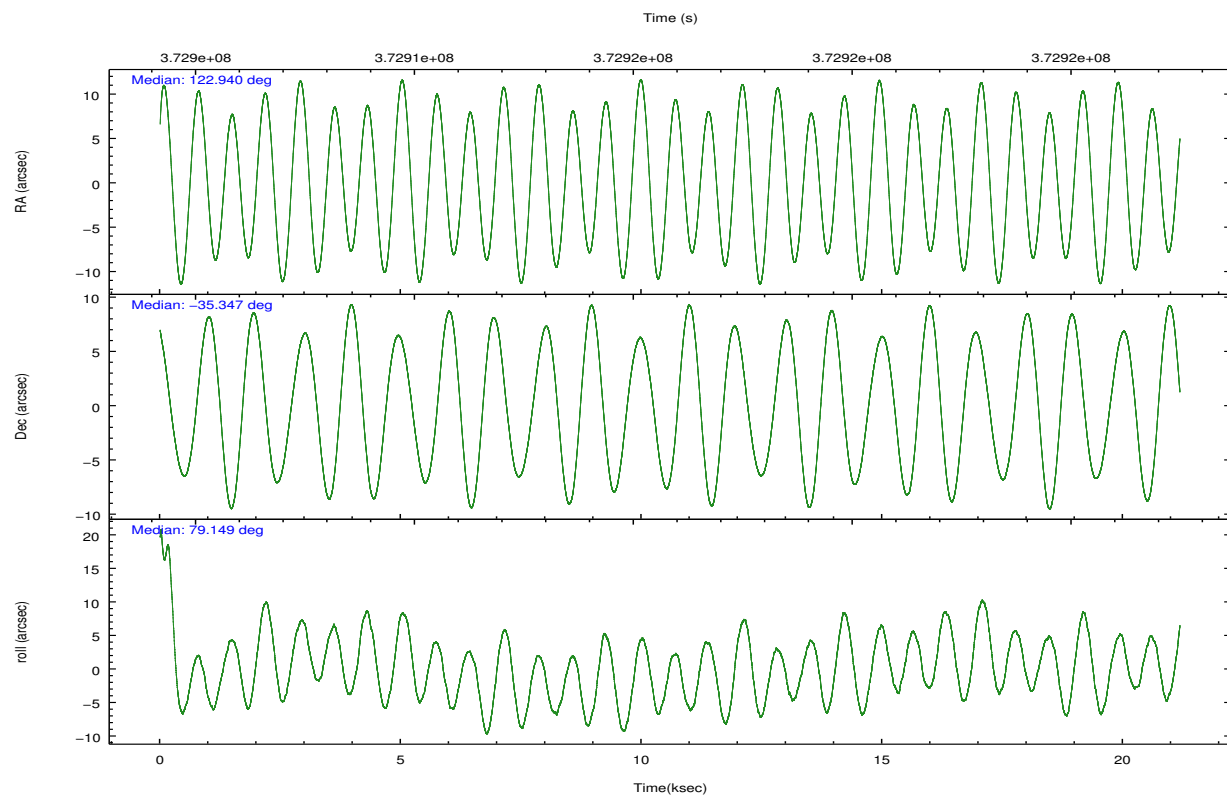
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	172974	249564	158918	224814	208442	155217	grade 0 events	10094	9883	8151	8377	15480	8160
rejected events	150922	134331	138580	128931	158114	134809		5%	3%	5%	3%	7%	5%
rejected %	87%	53%	87%	57%	75%	86%	grade 1 events	149	393	92	241	166	109
								0%	0%	0%	0%	0%	0%
							grade 2 events	4601	35029	4374	20027	11411	4233
								2%	14%	2%	8%	5%	2%
							grade 3 events	2053	4662	1972	8293	5237	2041
								1%	1%	1%	3%	2%	1%
							grade 4 events	2017	4573	1879	8212	4992	2039
								1%	1%	1%	3%	2%	1%
							grade 5 events	7472	18283	7649	20716	10344	8065
								4%	7%	4%	9%	4%	5%
							grade 6 events	3294	61115	3968	50998	13215	3942
								1%	24%	2%	22%	6%	2%
							grade 7 events	143294	115626	130833	107950	147597	126628
								82%	46%	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	122.951403	122.939969547187	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	-35.372569	-35.34684362860341	Subarray start row	1	1
[deg] Pointing Roll	79.005397	79.15540334913014	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)	372906445.184000	372904984.73228			
Observation start date	2009-10-26T01:06:19	2009-10-26T00:43:04			
[s] Observation end time (MET)	372926445.184000	372927142.67089			
Observation end date	2009-10-26T06:39:39	2009-10-26T06:52:22			
Read mode	TIMED	TIMED			

2.3 Aspect



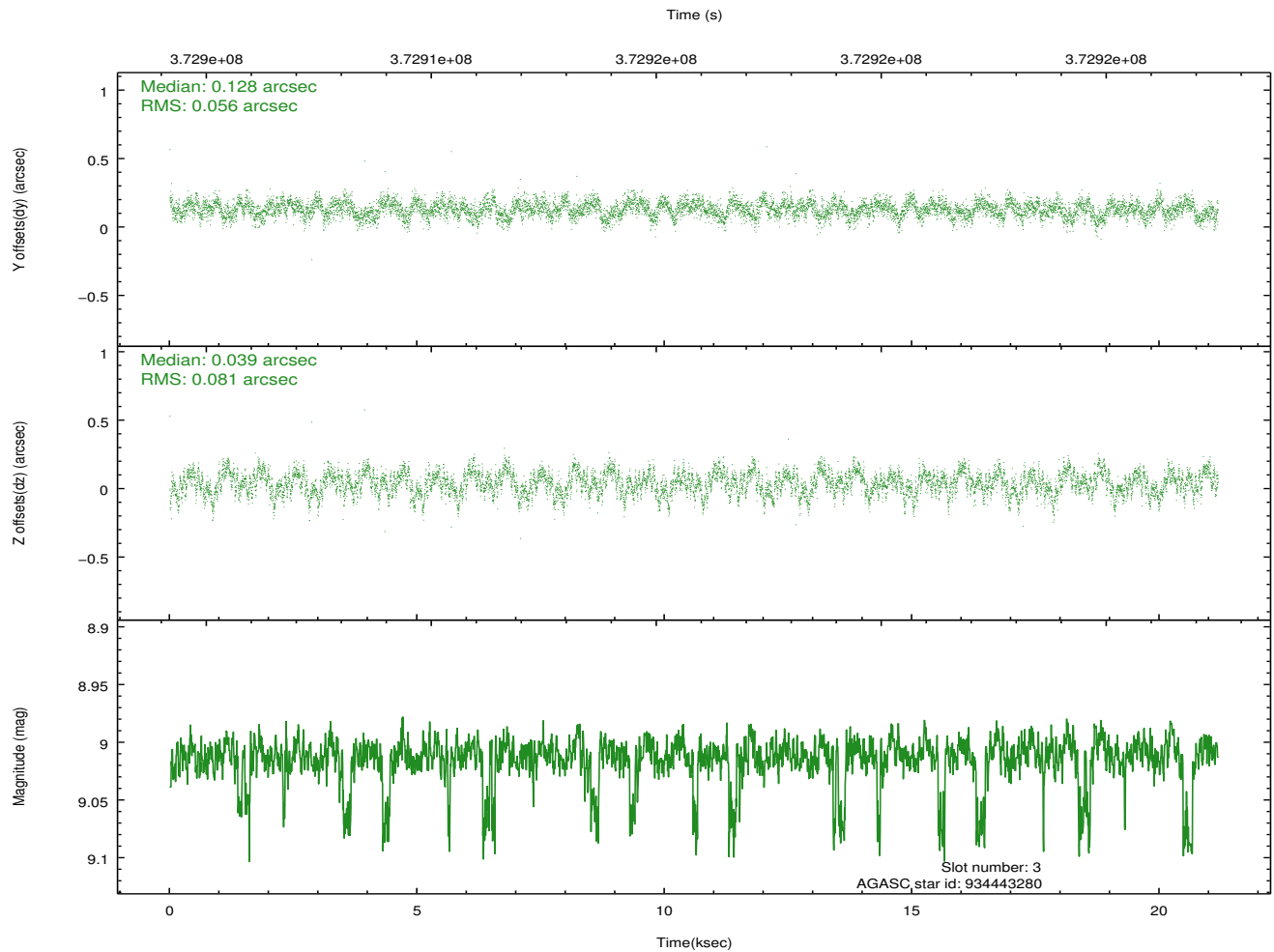
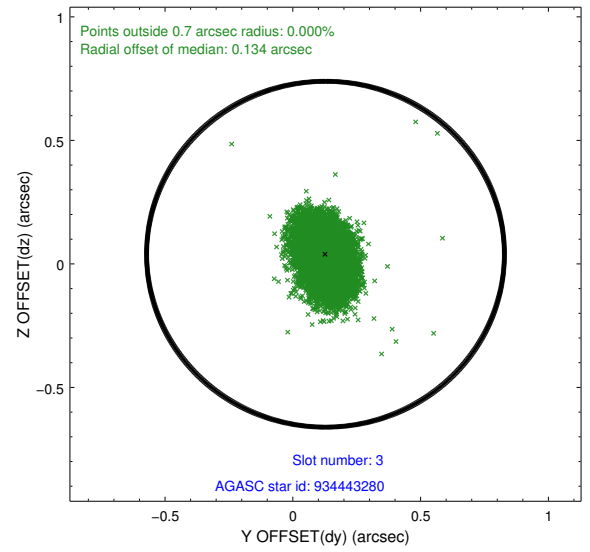
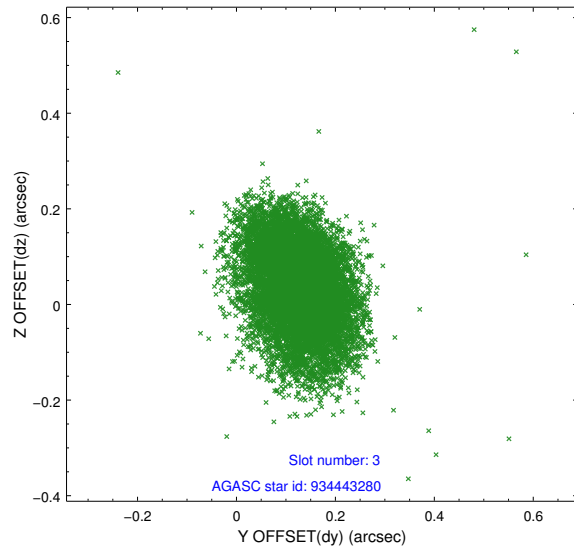


Slot Statistics

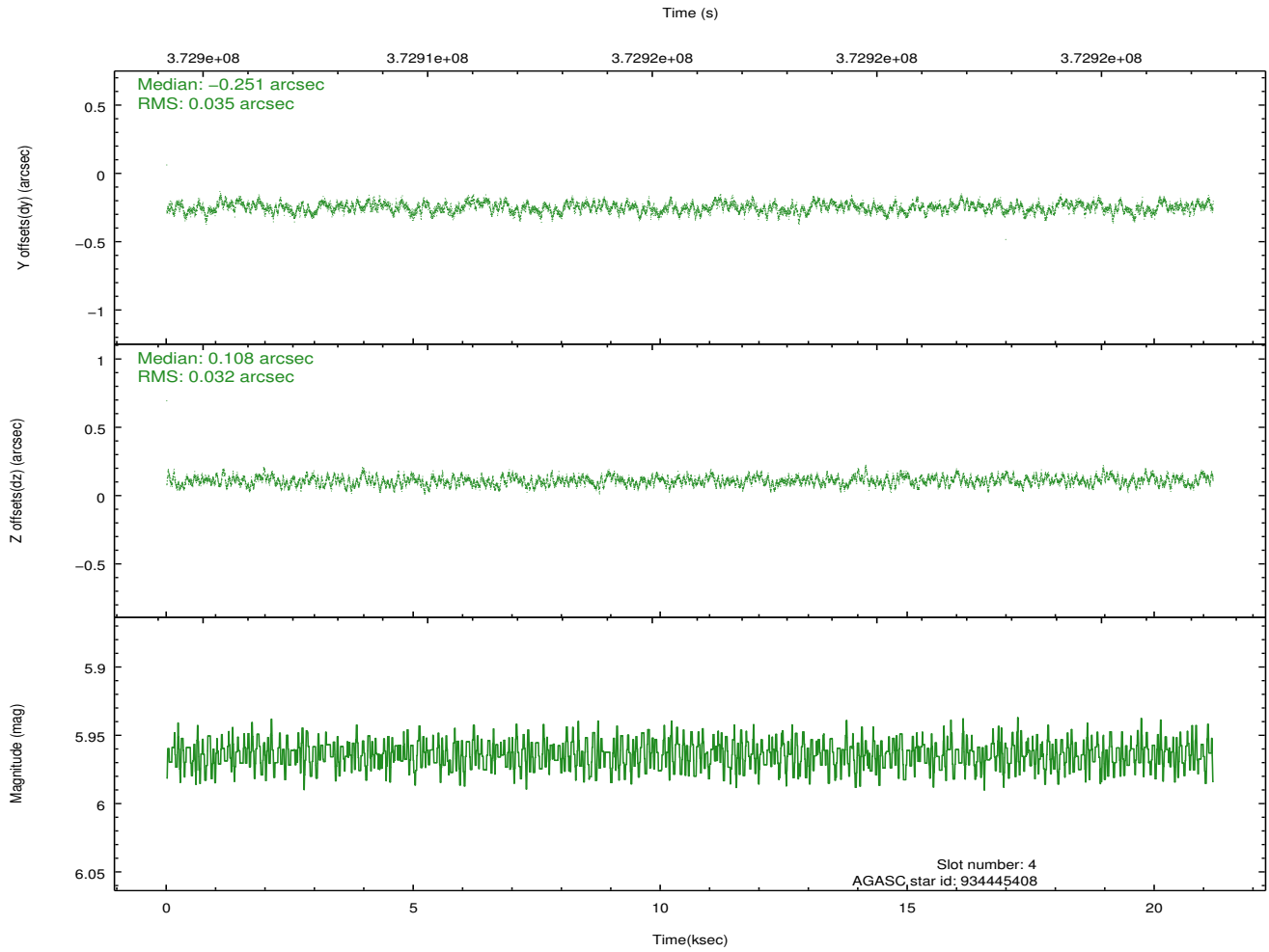
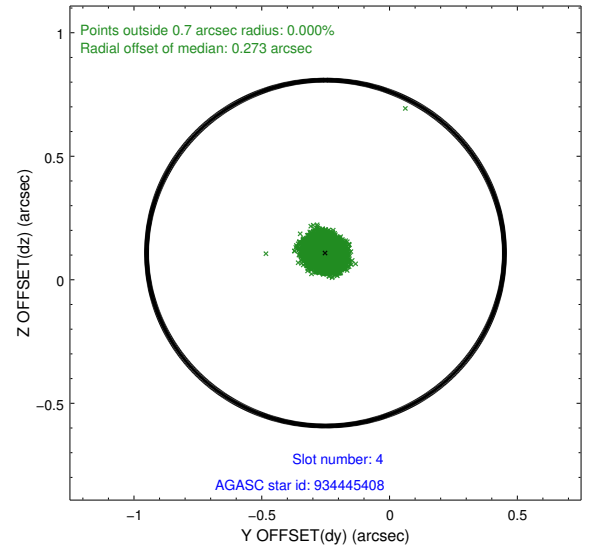
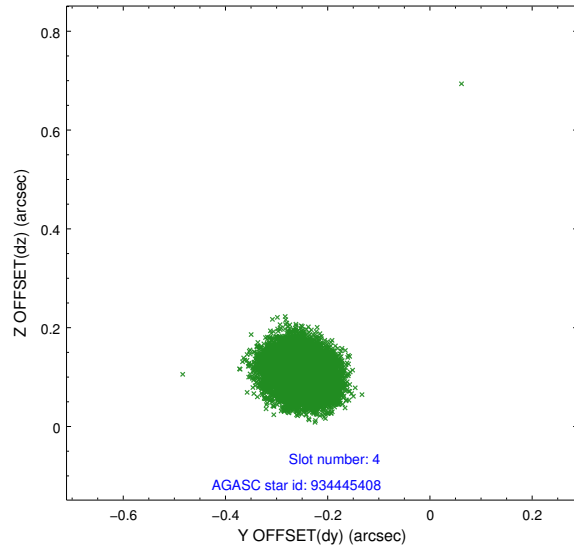
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.89	5167	-0.095	-0.100	0.010	0.017	0.000000	0.000000	-766.60	-1799.29
1	FID	ACIS-S-4	6.96	5166	0.229	0.073	0.008	0.015	0.000000	0.000000	2146.93	109.15
2	FID	ACIS-S-5	7.01	5167	-0.165	0.036	0.009	0.014	0.000000	0.000000	-1819.29	103.00
3	GUIDE	934443280	9.01	10322	0.128	0.039	0.103	0.172	123.348771	-35.369207	232.67	-1142.93
4	GUIDE	934445408	5.96	10335	-0.251	0.108	0.051	0.079	123.155863	-35.146509	913.16	-435.55
5	GUIDE	934448384	9.37	10323	0.117	0.084	0.102	0.162	123.060299	-35.434250	-156.70	-355.83
6	GUIDE	934449128	9.12	10304	0.138	-0.173	0.092	0.147	122.610732	-35.593771	-973.29	826.53
7	GUIDE	934449184	6.93	10326	-0.127	-0.064	0.062	0.102	123.461425	-35.208271	863.17	-1360.40

2.4 Star Slots

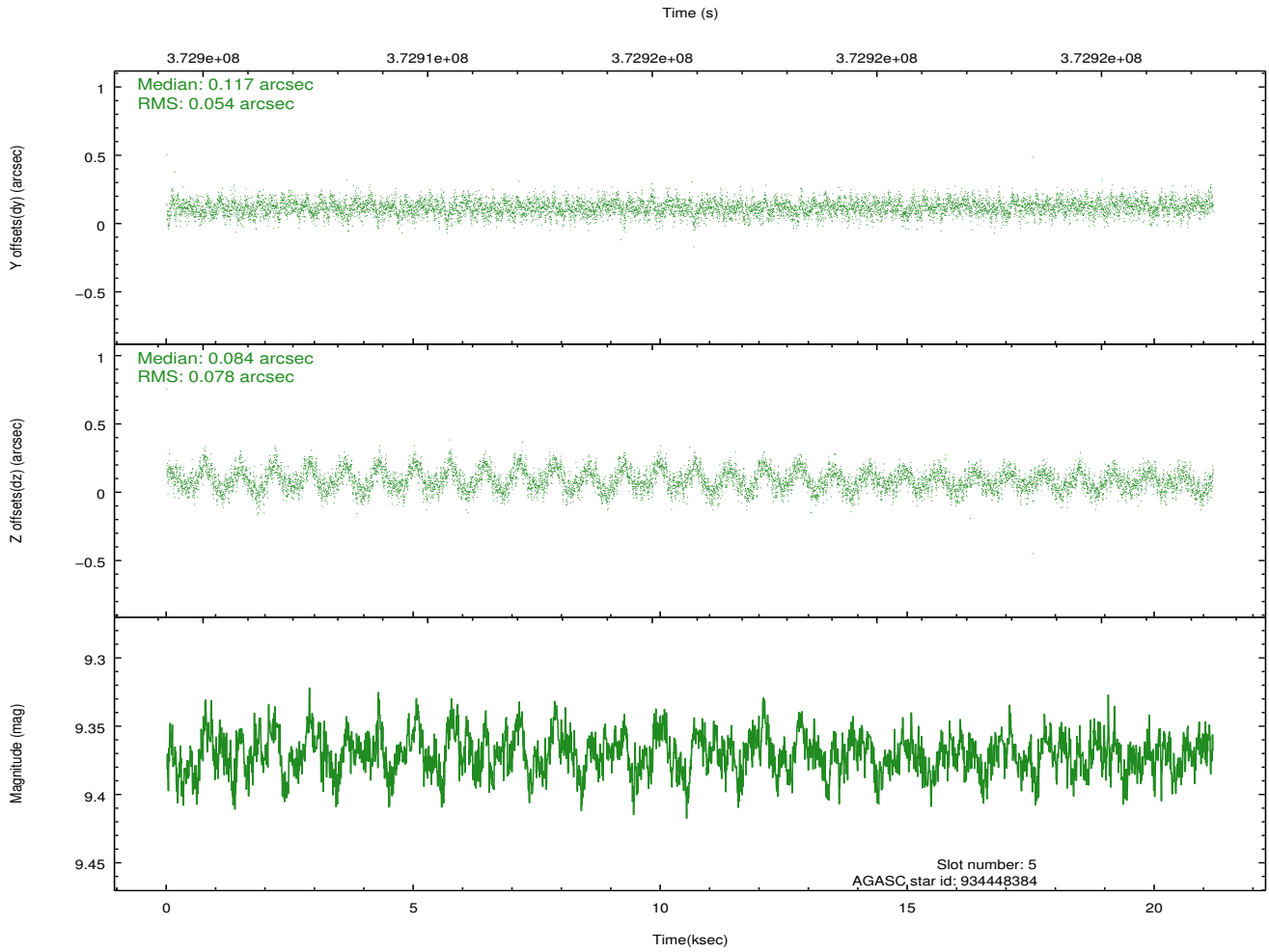
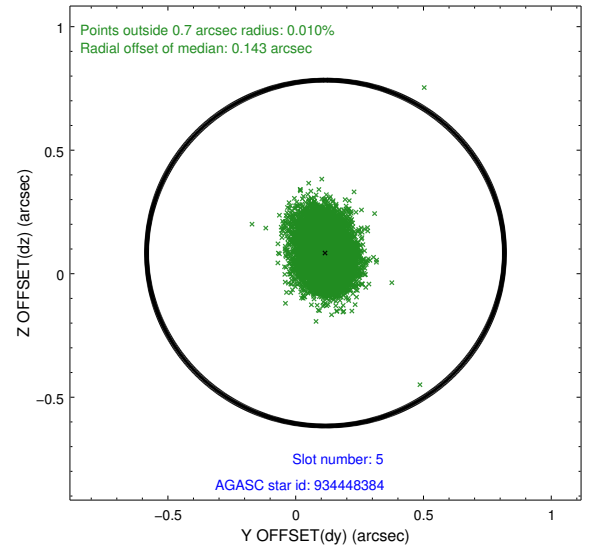
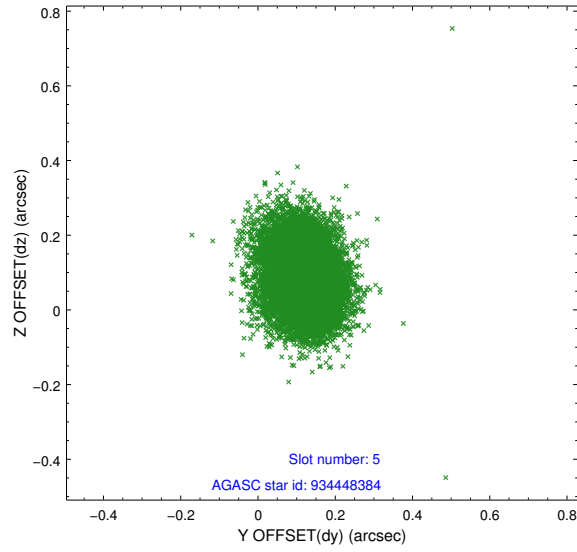
2.4.1 Slot 3



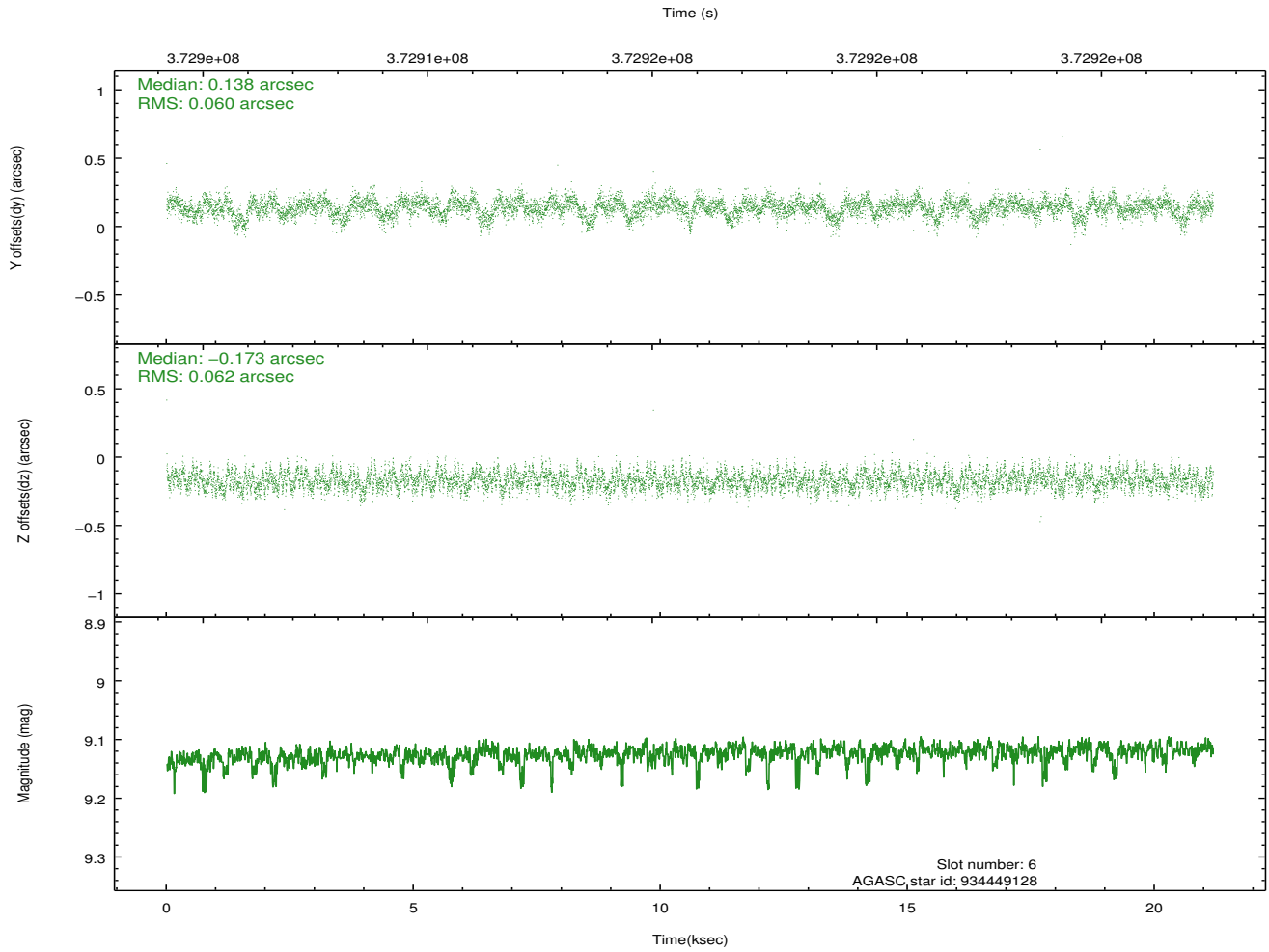
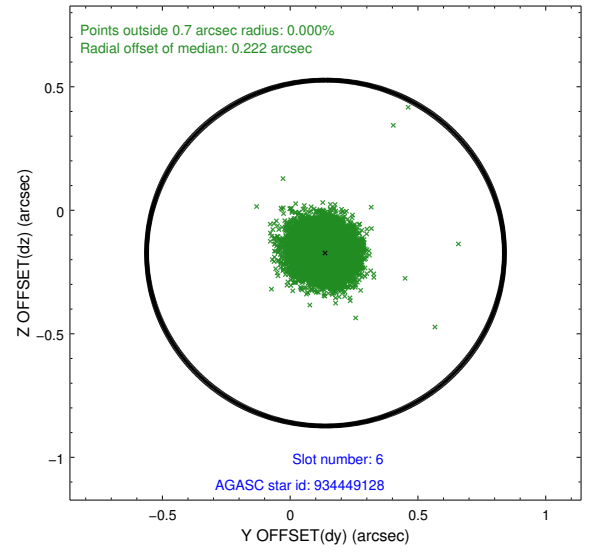
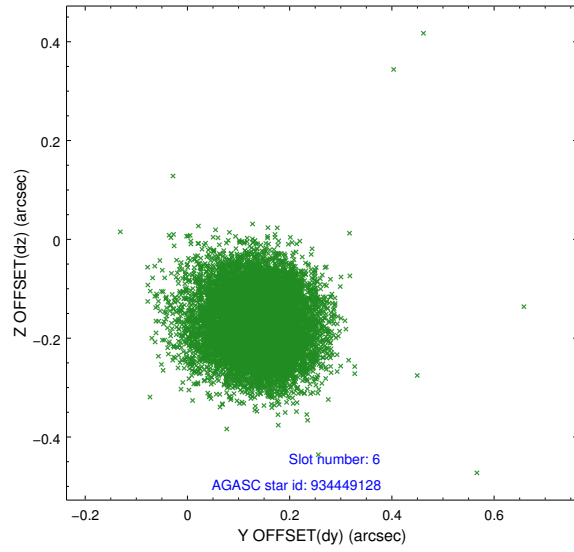
2.4.2 Slot 4



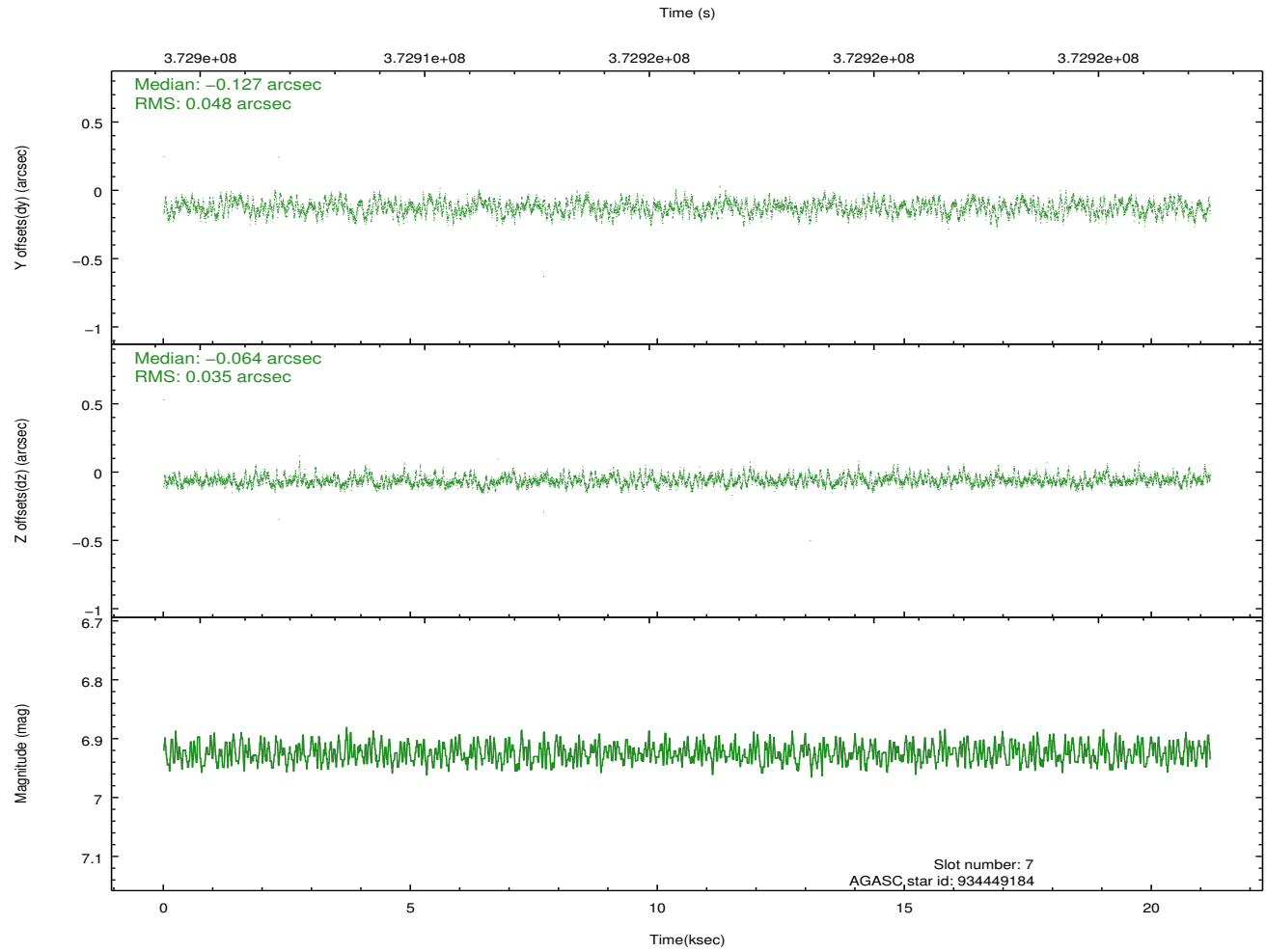
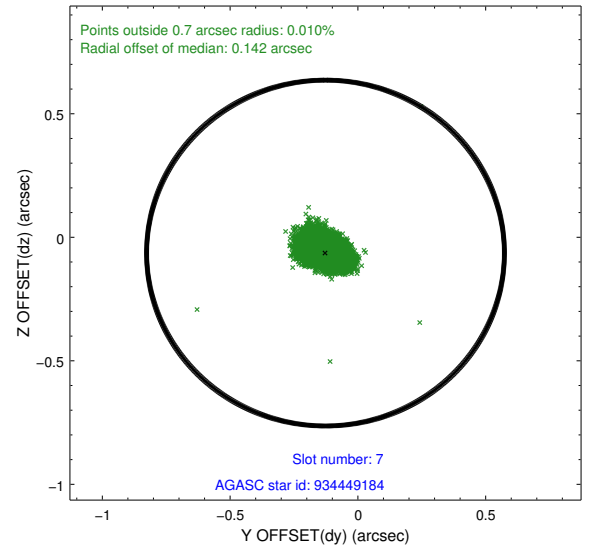
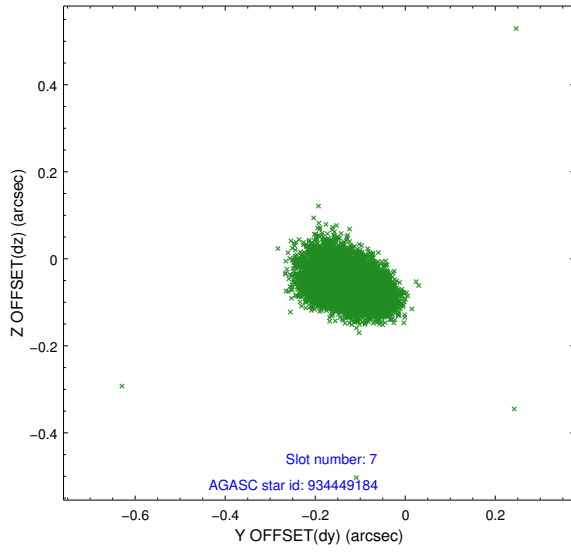
2.4.3 Slot 5



2.4.4 Slot 6

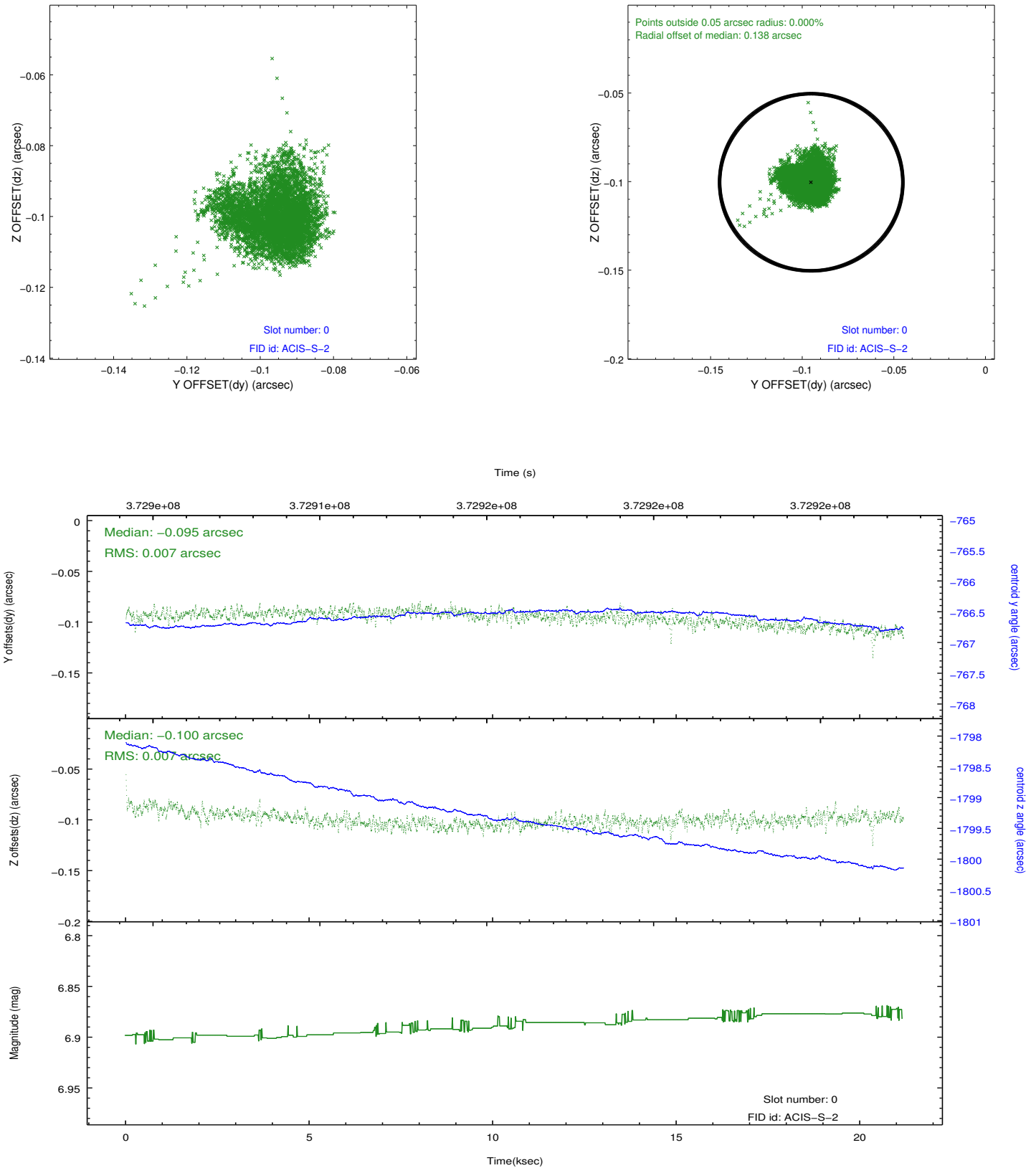


2.4.5 Slot 7

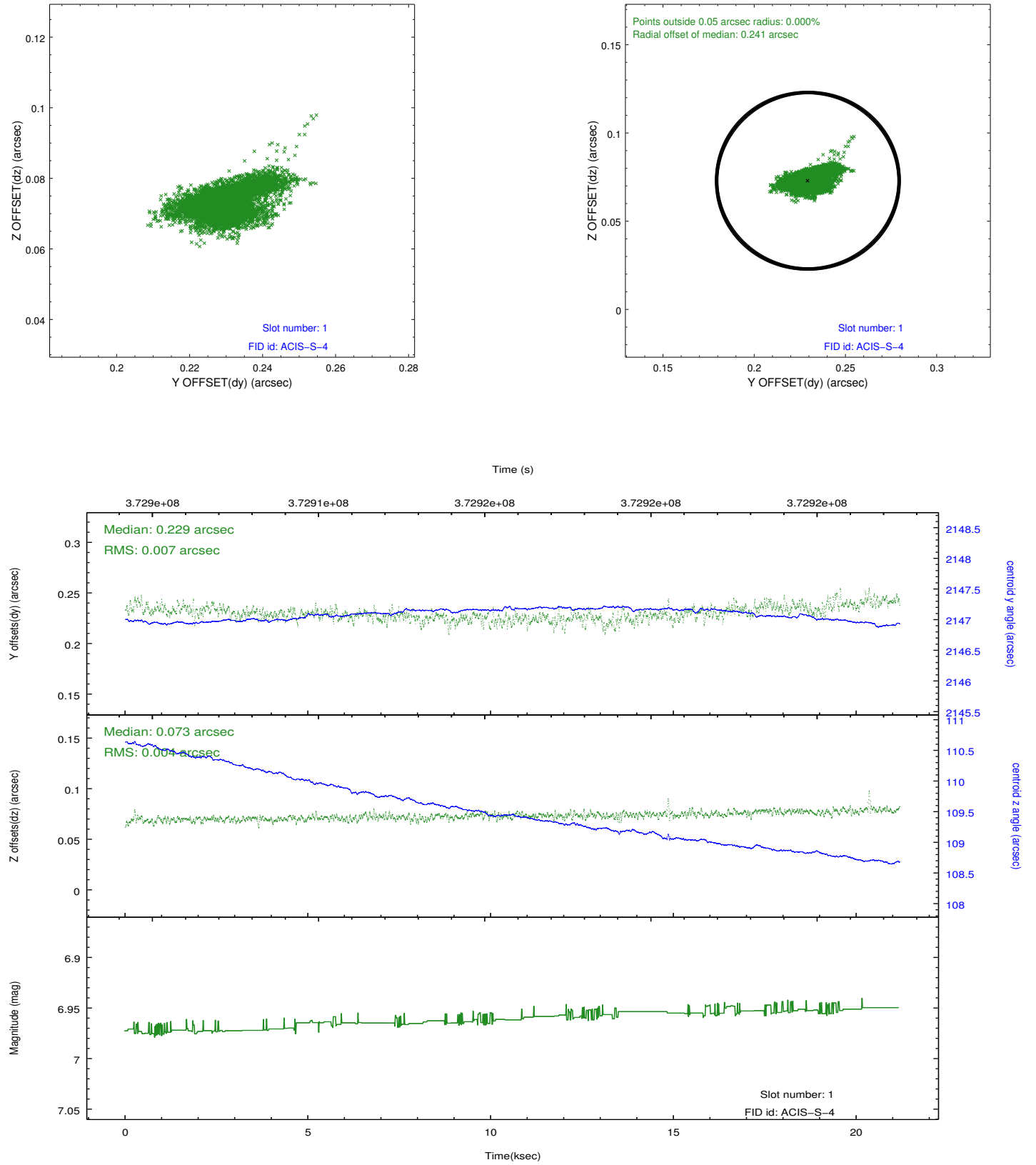


2.5 FID Slots

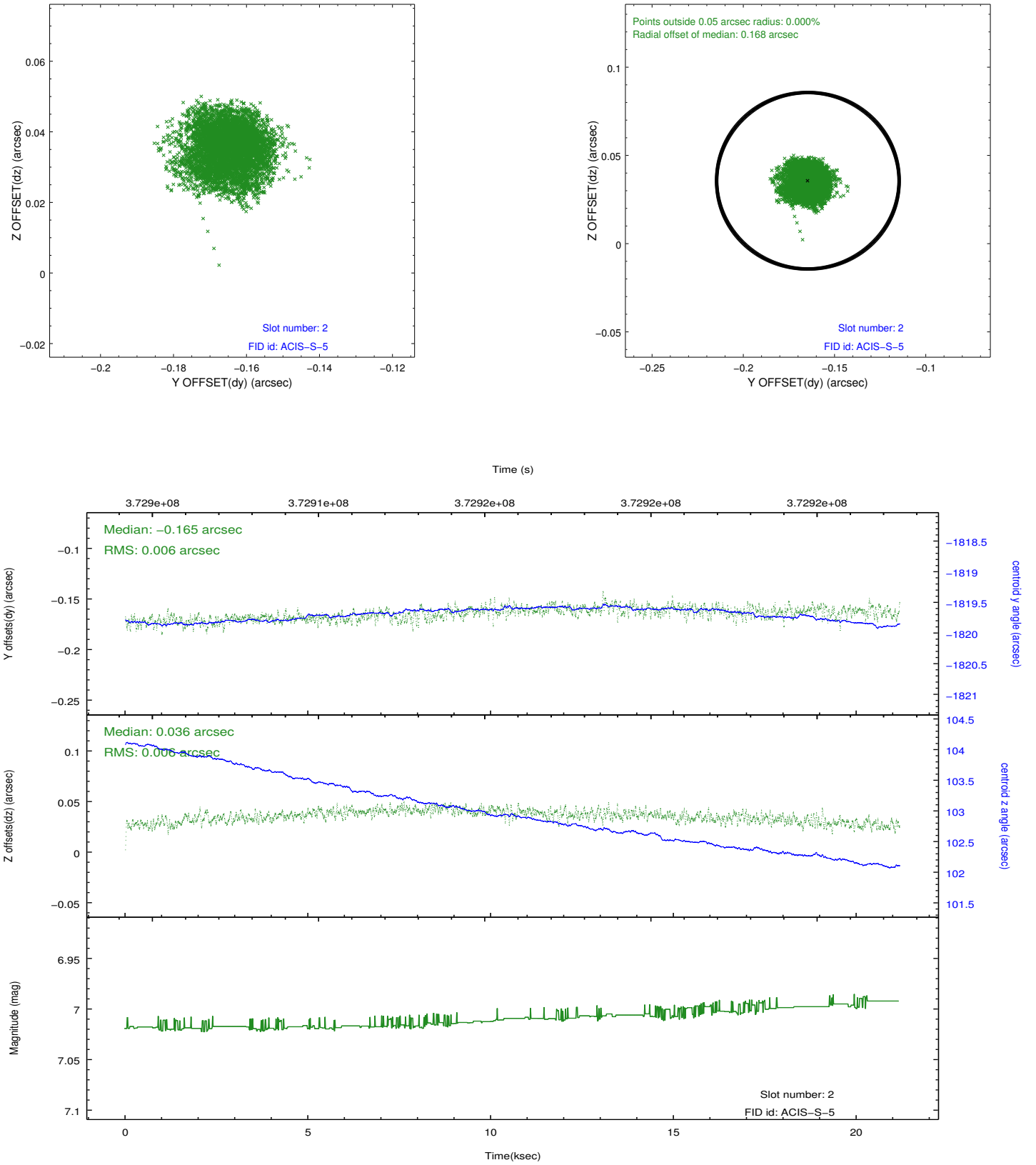
2.5.1 Slot 0



2.5.2 Slot 1

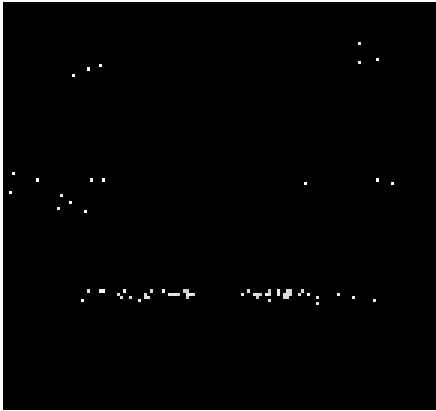


2.5.3 Slot 2

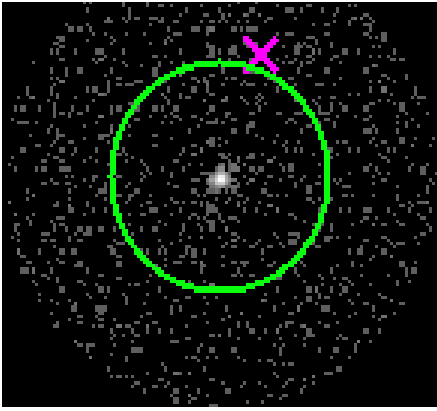


3 Gratings

3.1 HEG Arm



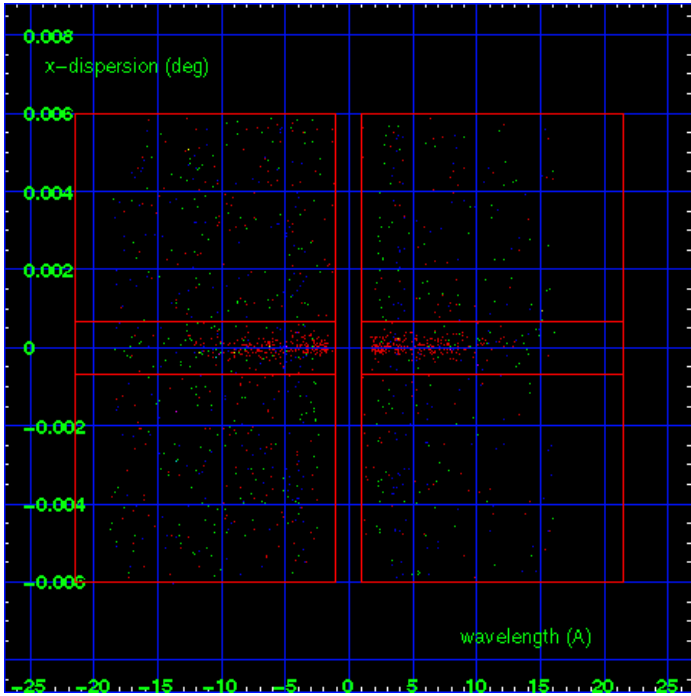
HEG Order Sort 123



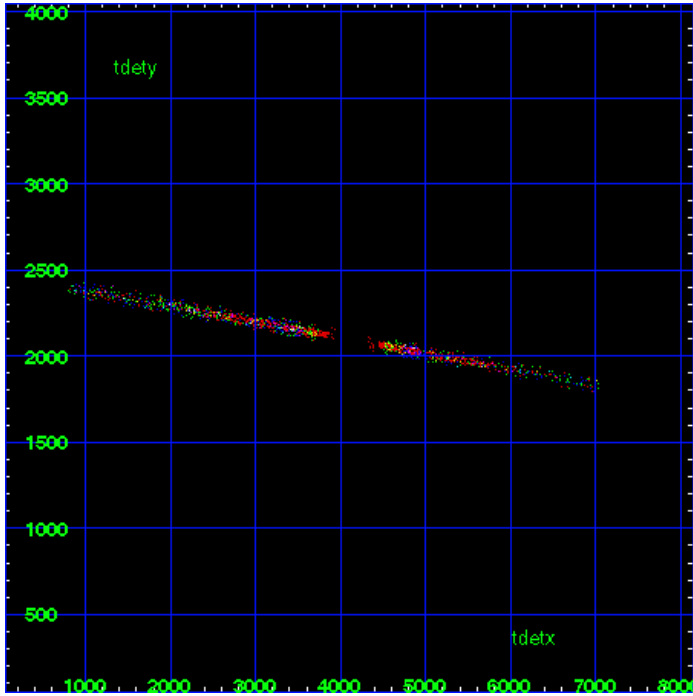
HEG Zero Order



HEG Order Sort ALL

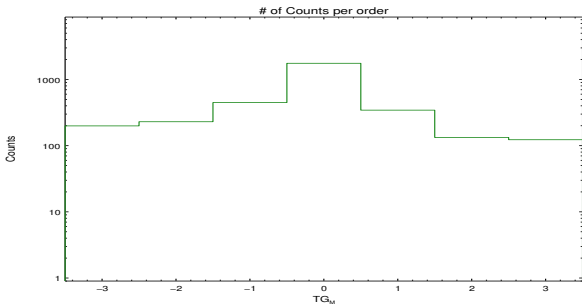


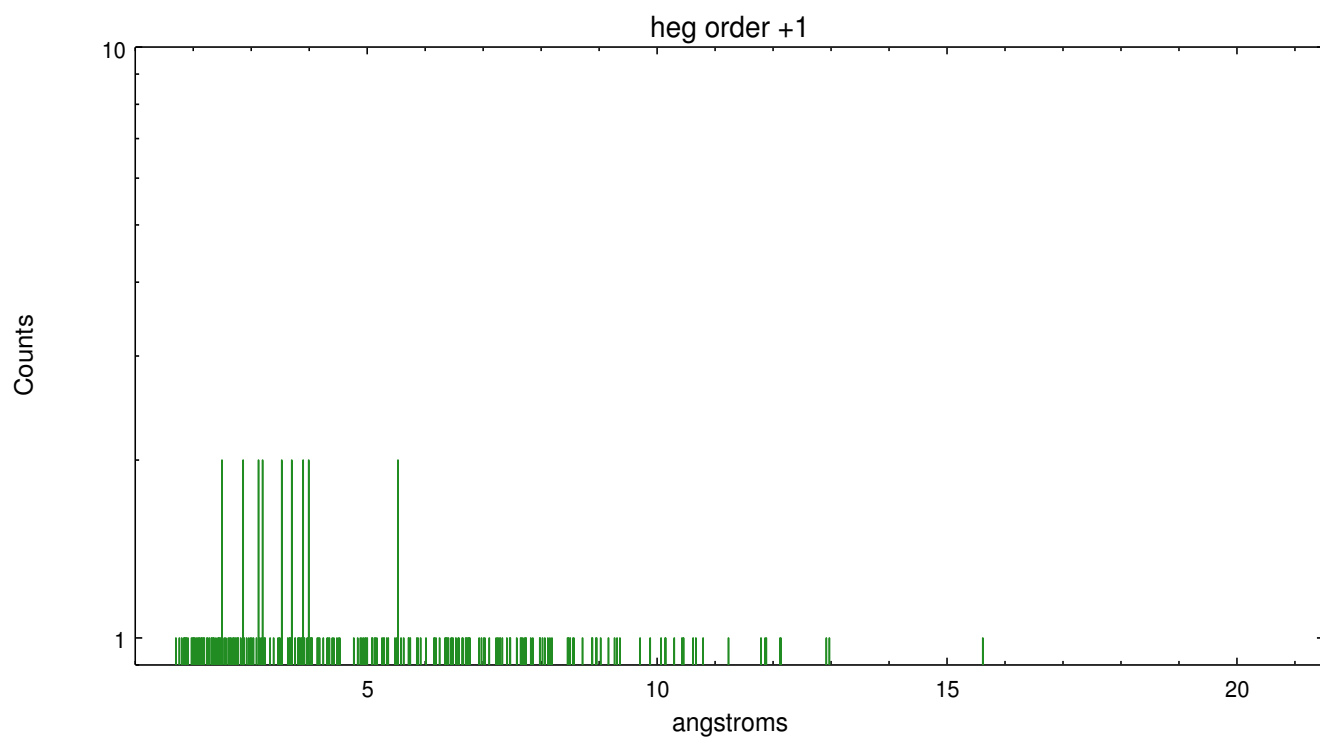
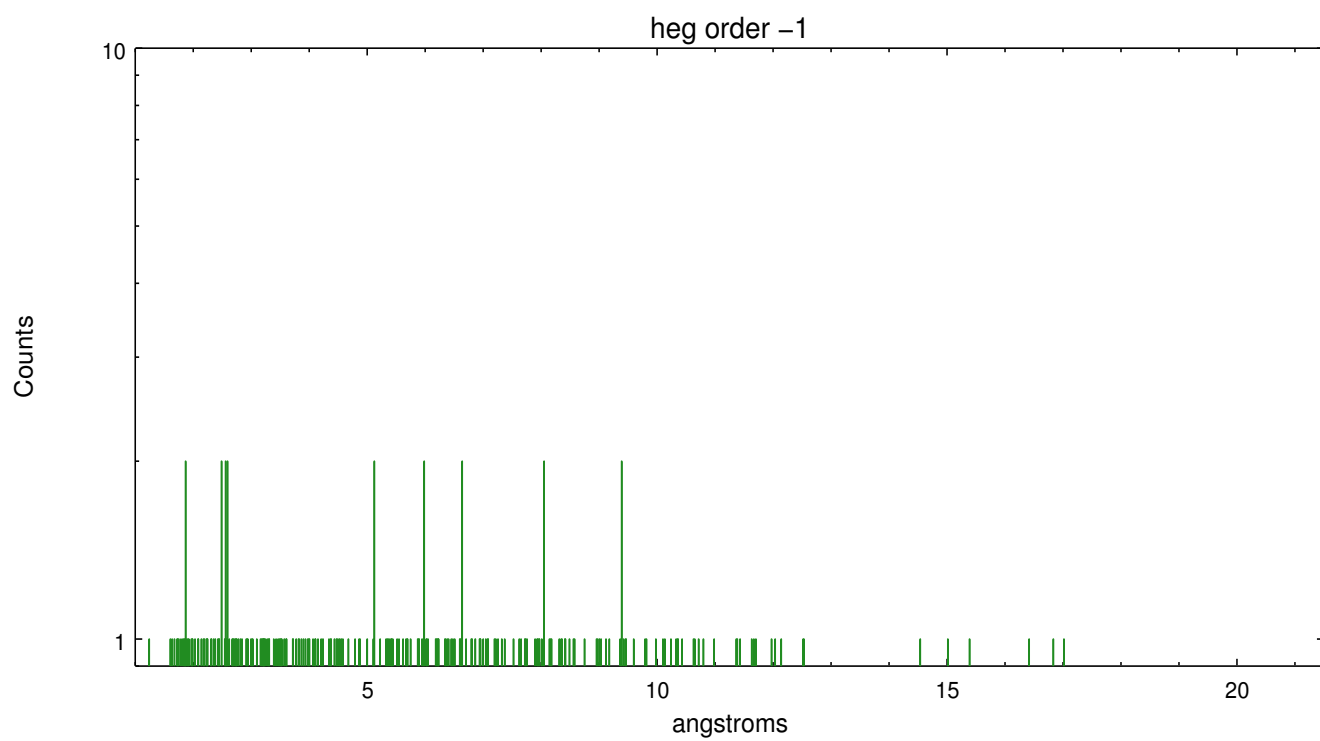
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	199	230	448	1756	344	133	123

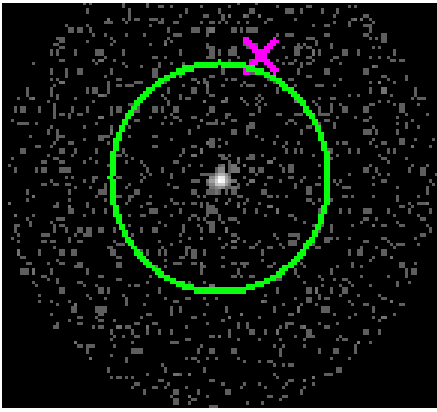




3.2 MEG Arm



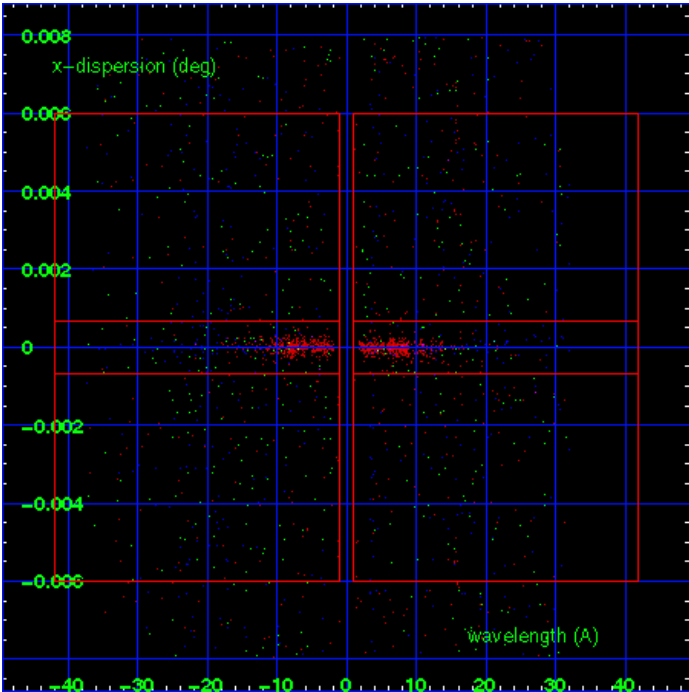
MEG Order Sort 123



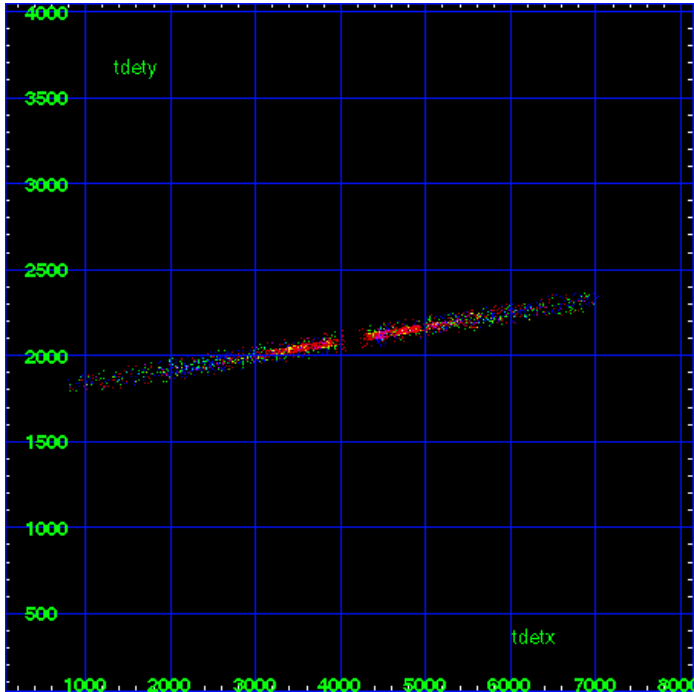
MEG Zero Order



MEG Order Sort ALL

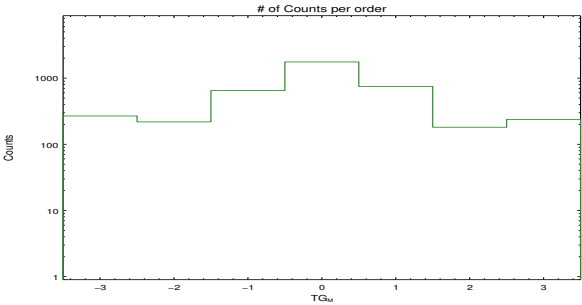


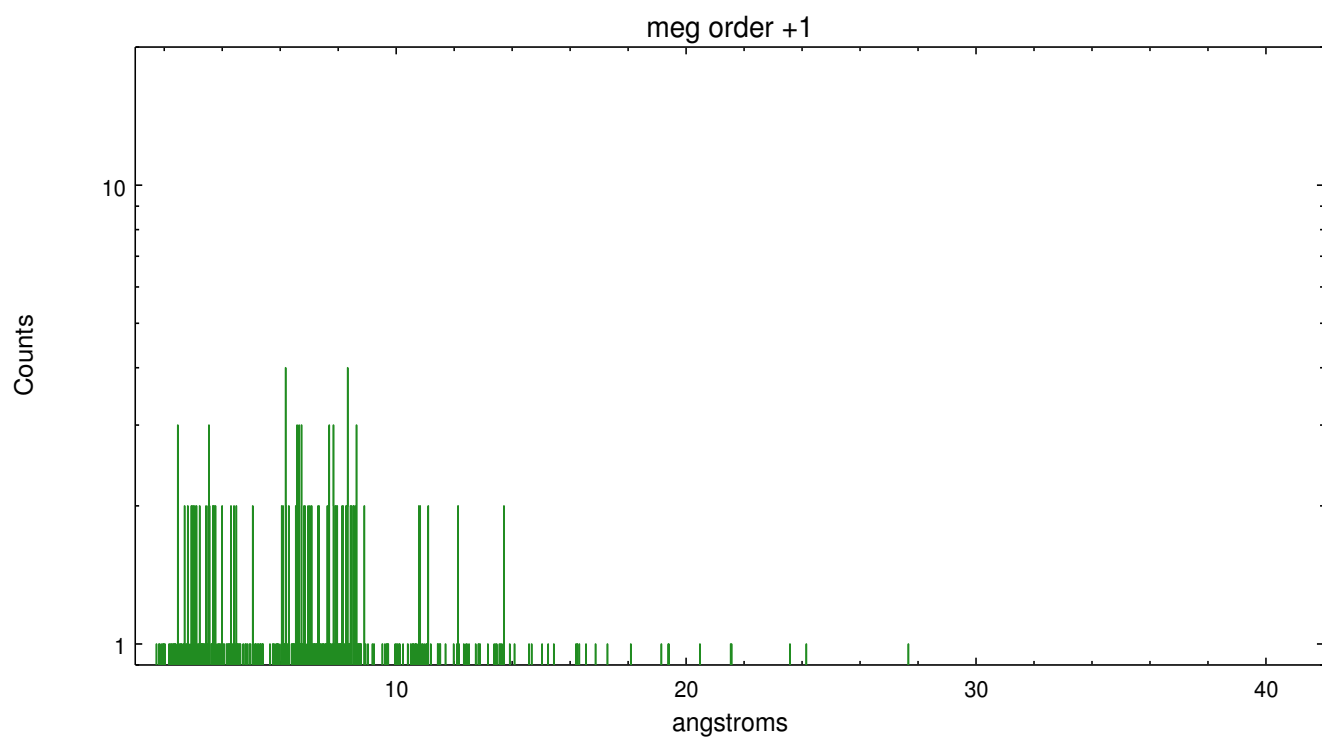
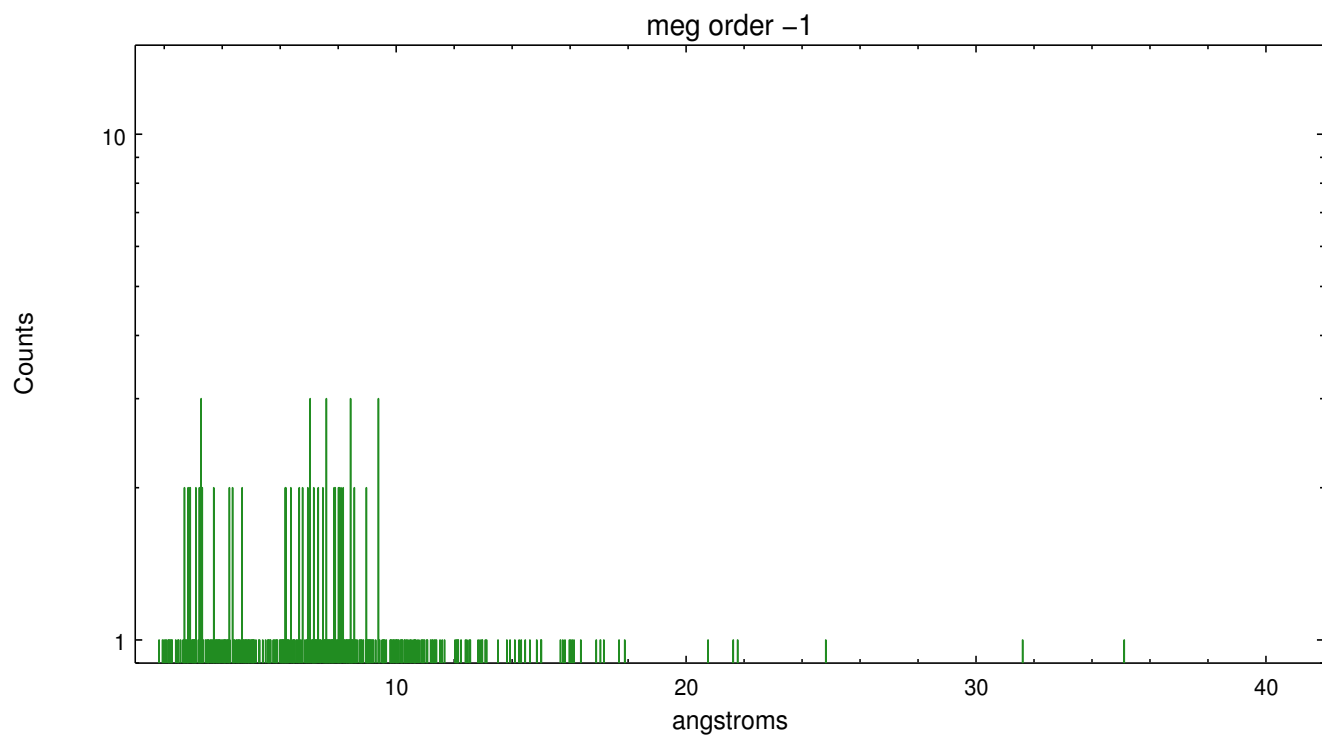
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	268	218	648	1756	749	181	238





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	20.039432020903

A.2 Comments