

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12013 - L2 Version 2
Chandra X-Ray Center

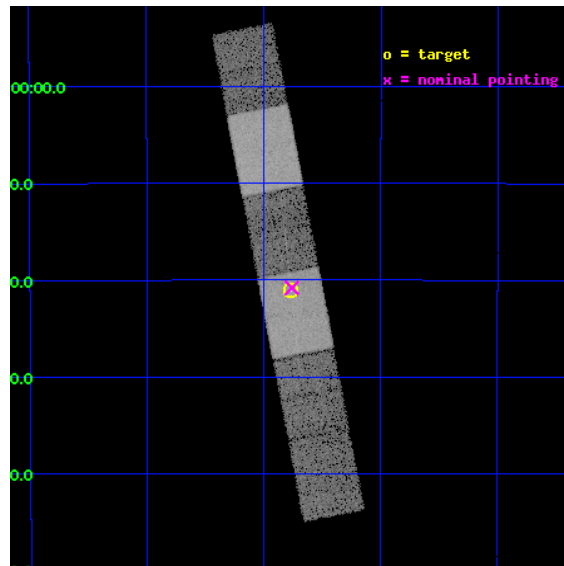
L2 Processing Date : Jun 16 2012

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

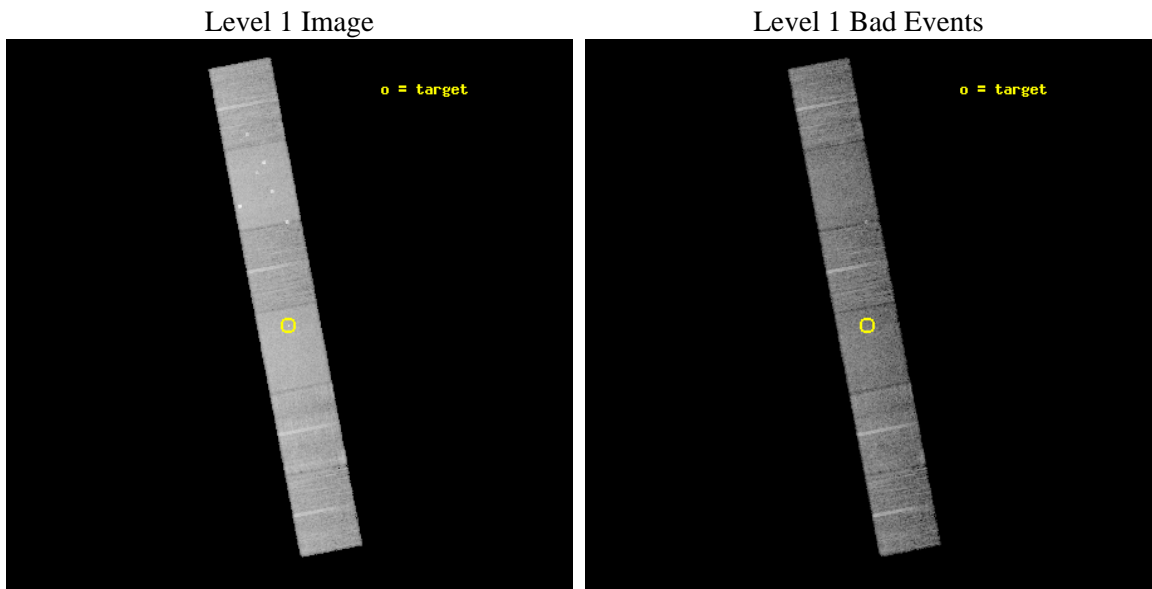
seq_num	300253	Sequence number
obs_id	12013	Observation id
title	CP Puppis, a template for the secular evolution of novae	Proposal
observer	Dr Marina Orio	Principal investigator
object	CP Puppis	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	122.942083	Observer's specified target RA [deg]
dec_targ	-35.351389	Observer's specified target Dec [deg]
ra_nom	122.93993277974	Nominal RA [deg]
dec_nom	-35.34692622216	Nominal Dec [deg]
roll_nom	79.15542012535	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9337.5	Sum of GTIs [s]
livetime	9186.6912760129	Livetime [s]
ontime4	9337.5	Sum of GTIs [s]
ontime5	9337.5	Sum of GTIs [s]
ontime6	9337.5	Sum of GTIs [s]
ontime7	9337.5	Sum of GTIs [s]
ontime8	9337.5	Sum of GTIs [s]
ontime9	9337.5	Sum of GTIs [s]
l2events	129182	Number of level 2 events



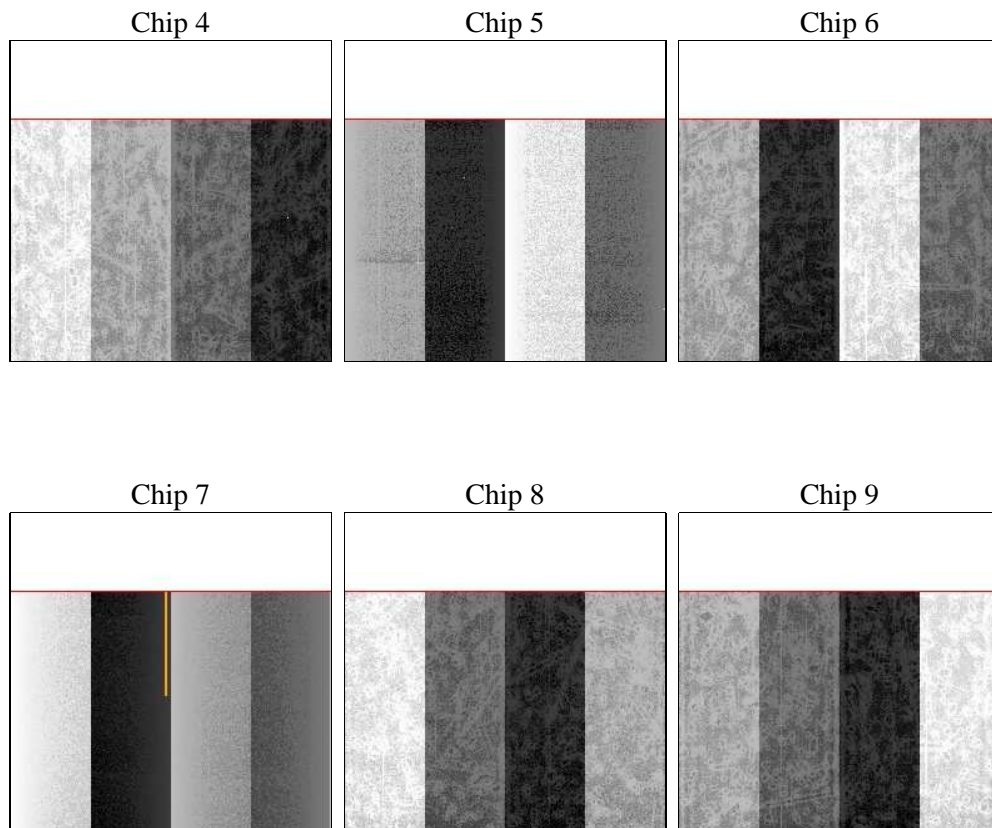
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	9300.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	9337.5	Sum of GTIs [s]
caldbver	4.4.10	 	ontime4	9337.5	Sum of GTIs [s]
date	2012-06-16T01:32:09	Date and time of file creation	ontime5	9337.5	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	9337.5	Sum of GTIs [s]
			ontime7	9337.5	Sum of GTIs [s]
			ontime8	9337.5	Sum of GTIs [s]
			ontime9	9337.5	Sum of GTIs [s]
			l1events	550261	Number of level 1 events

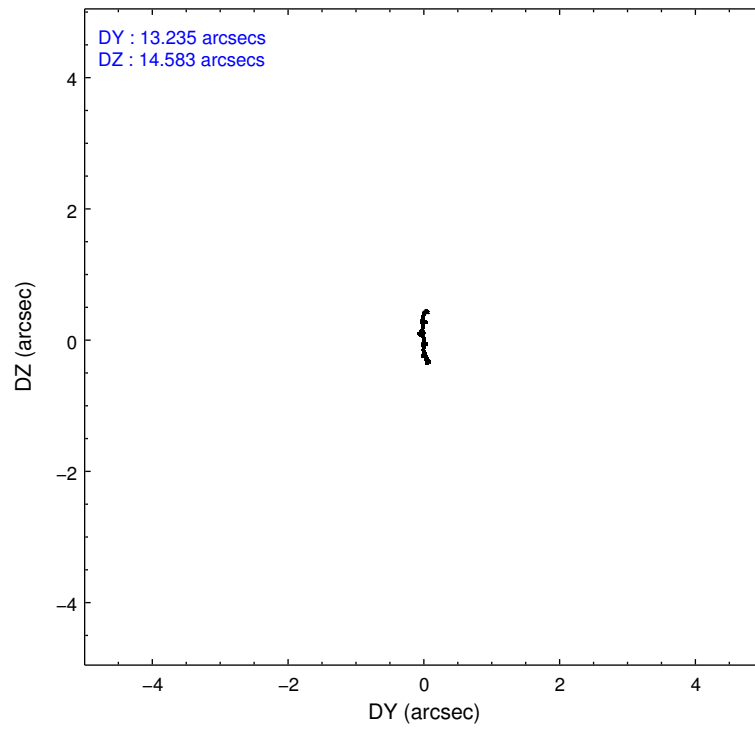
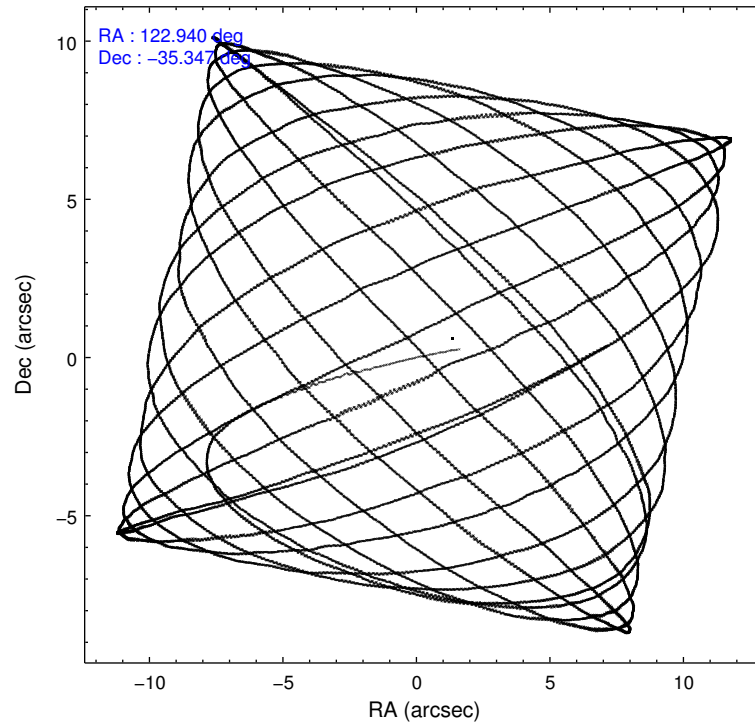
2.1.4 Events

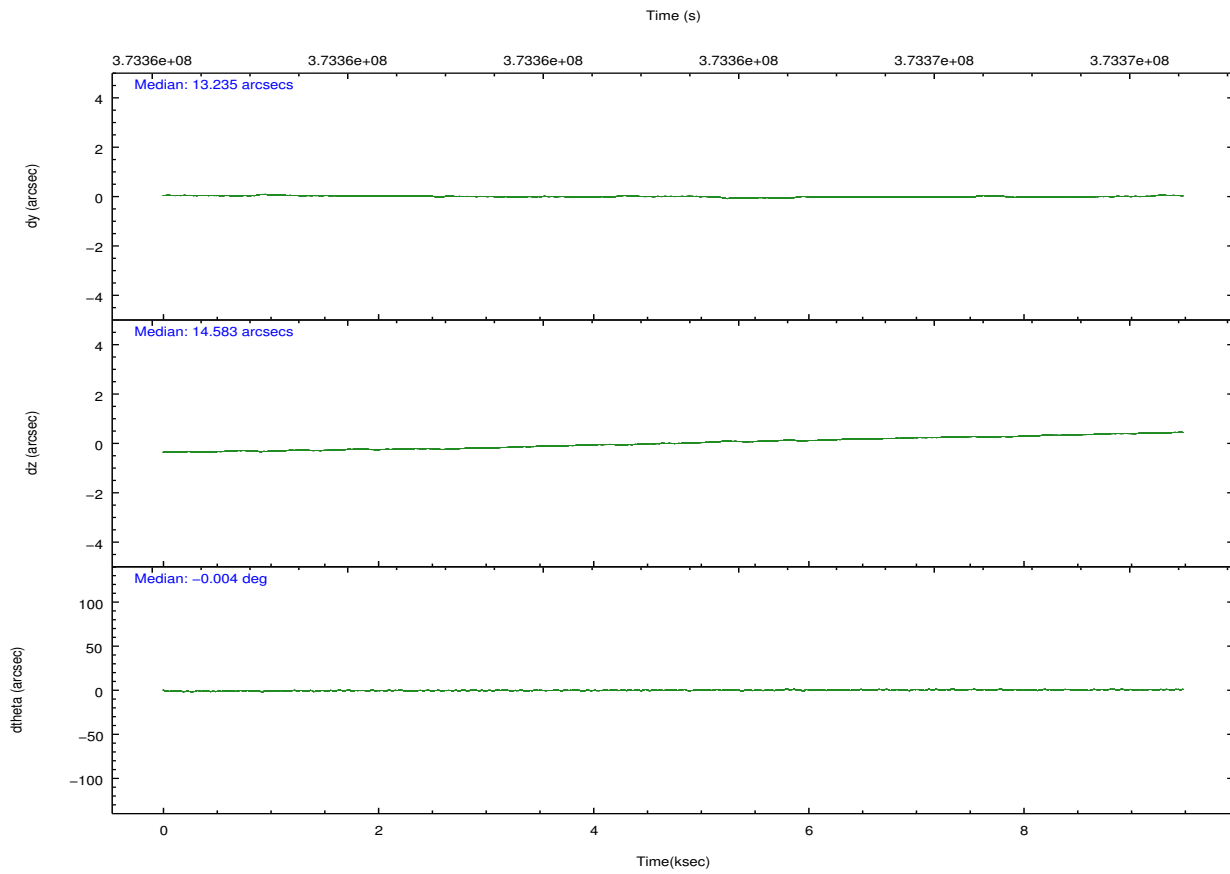
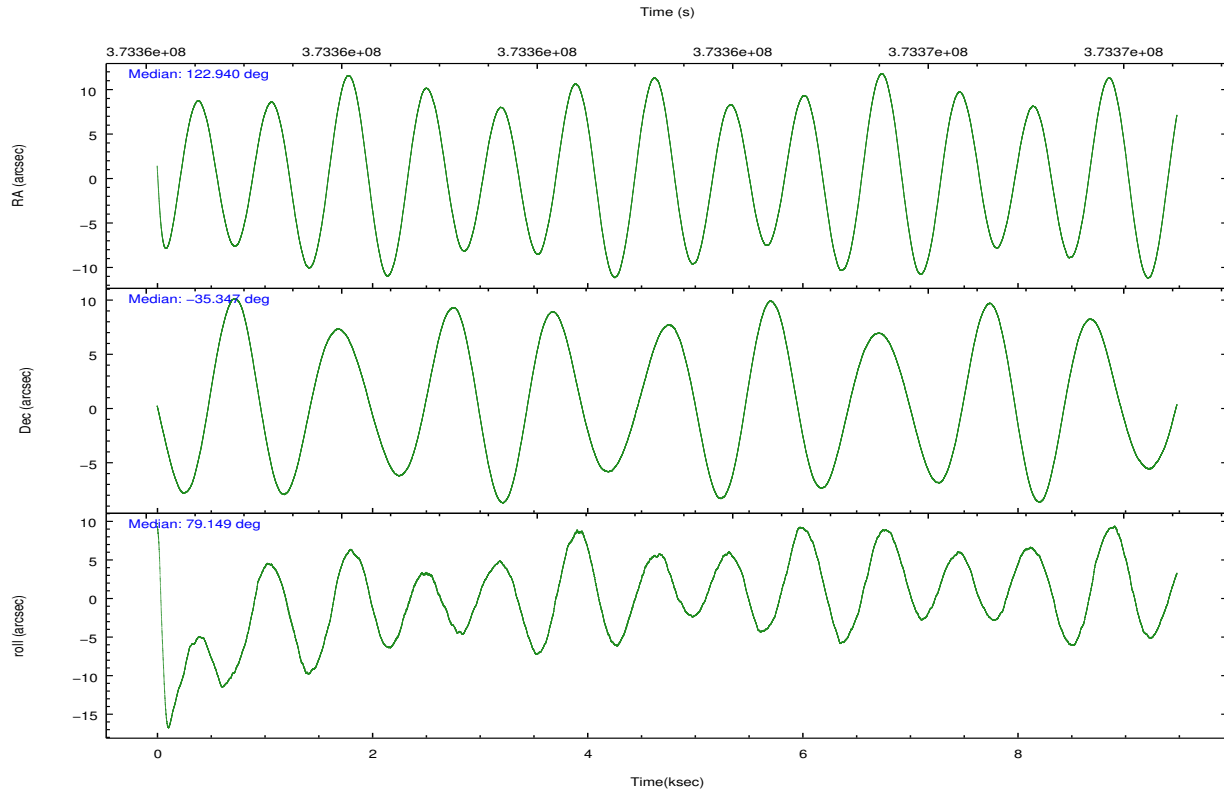
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	82683	119223	75181	105297	95376	72501	grade 0 events	4961	7556	3909	3946	7194	3842
rejected events	71903	62177	65348	60623	72344	63020		6%	6%	5%	3%	7%	5%
rejected %	86%	52%	86%	57%	75%	86%	grade 1 events	73	352	33	105	78	38
								0%	0%	0%	0%	0%	0%
							grade 2 events	2252	16396	2066	9343	5214	1940
								2%	13%	2%	8%	5%	2%
							grade 3 events	1005	2325	980	3780	2339	919
								1%	1%	1%	3%	2%	1%
							grade 4 events	971	2189	960	3735	2256	964
								1%	1%	1%	3%	2%	1%
							grade 5 events	3552	8609	3556	9714	4788	3810
								4%	7%	4%	9%	5%	5%
							grade 6 events	1600	28609	1930	23908	6040	1822
								1%	23%	2%	22%	6%	2%
							grade 7 events	68269	53187	61747	50766	67467	59166
								82%	44%	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	122.9399327797416	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	-35.372569	-35.34692622215961	Subarray start row	1	1
[deg] Pointing Roll	79.005397	79.15542012534981	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)	373358770.184000	373357711.88008			
Observation start date	2009-10-31T06:45:04	2009-10-31T06:28:31			
[s] Observation end time (MET)	373368070.184000	373369457.35567			
Observation end date	2009-10-31T09:20:04	2009-10-31T09:44:17			
Read mode	TIMED	TIMED			

2.3 Aspect



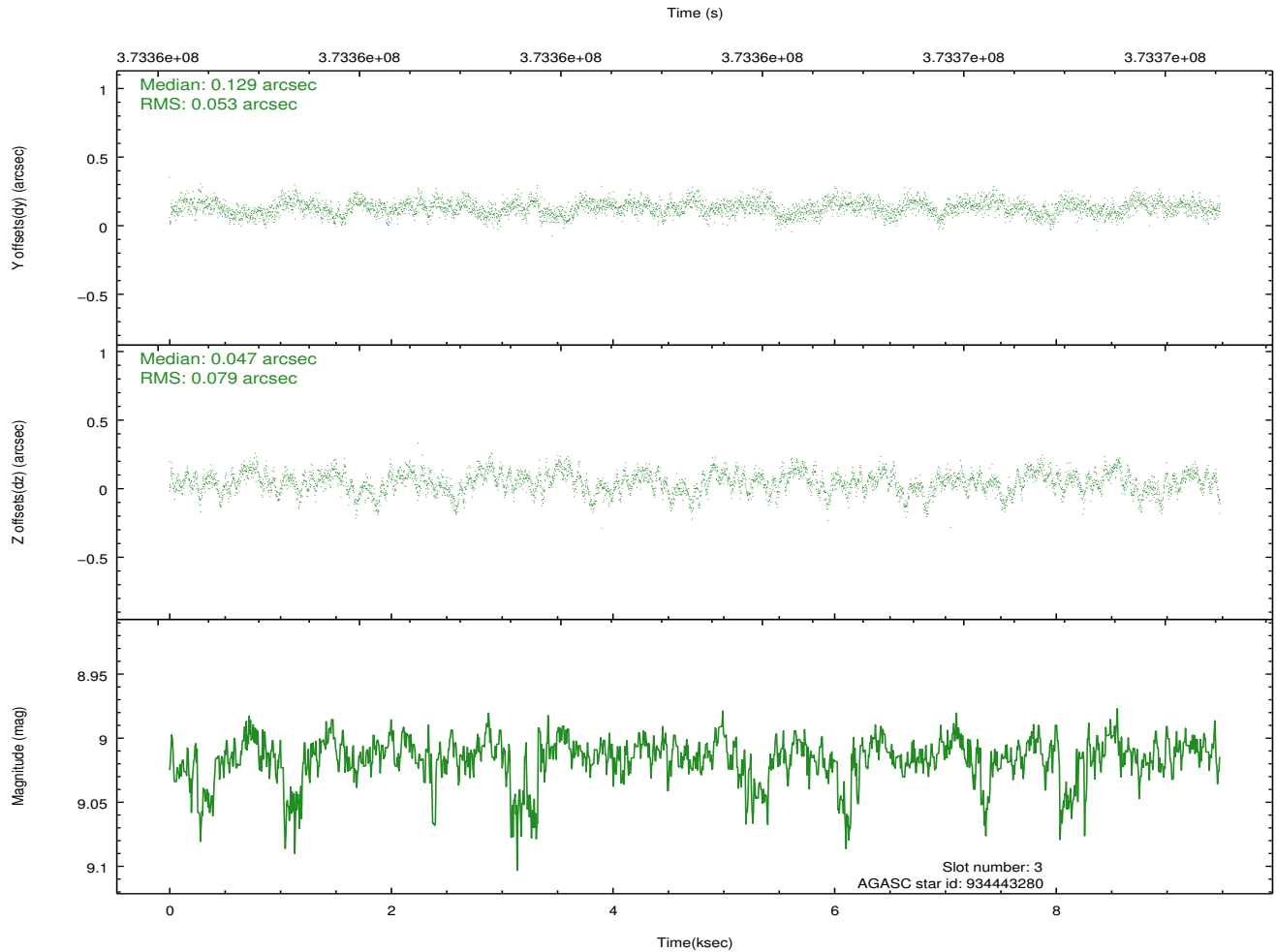
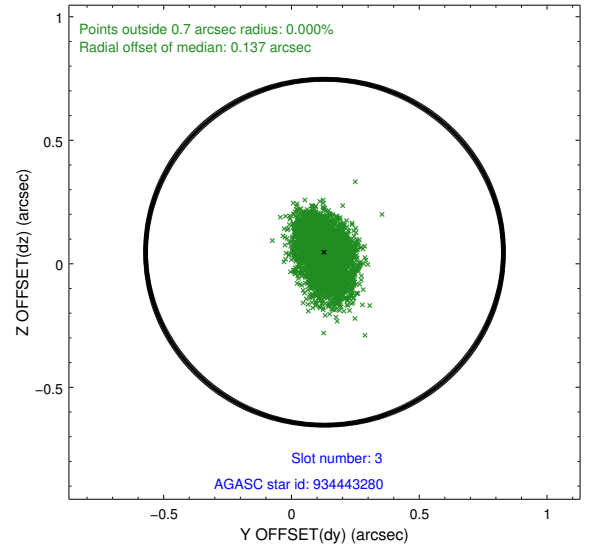
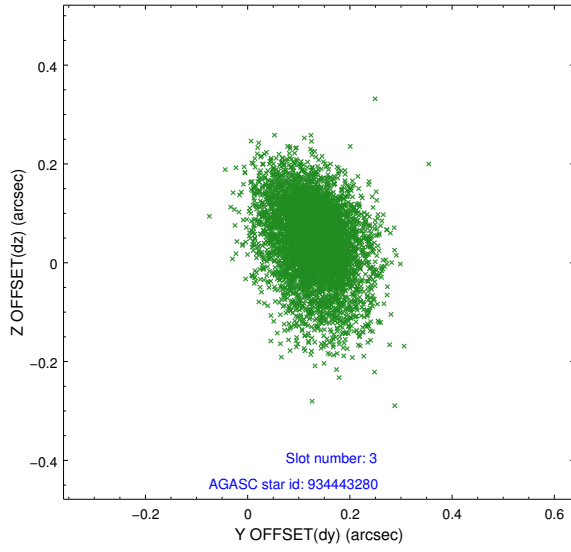


Slot Statistics

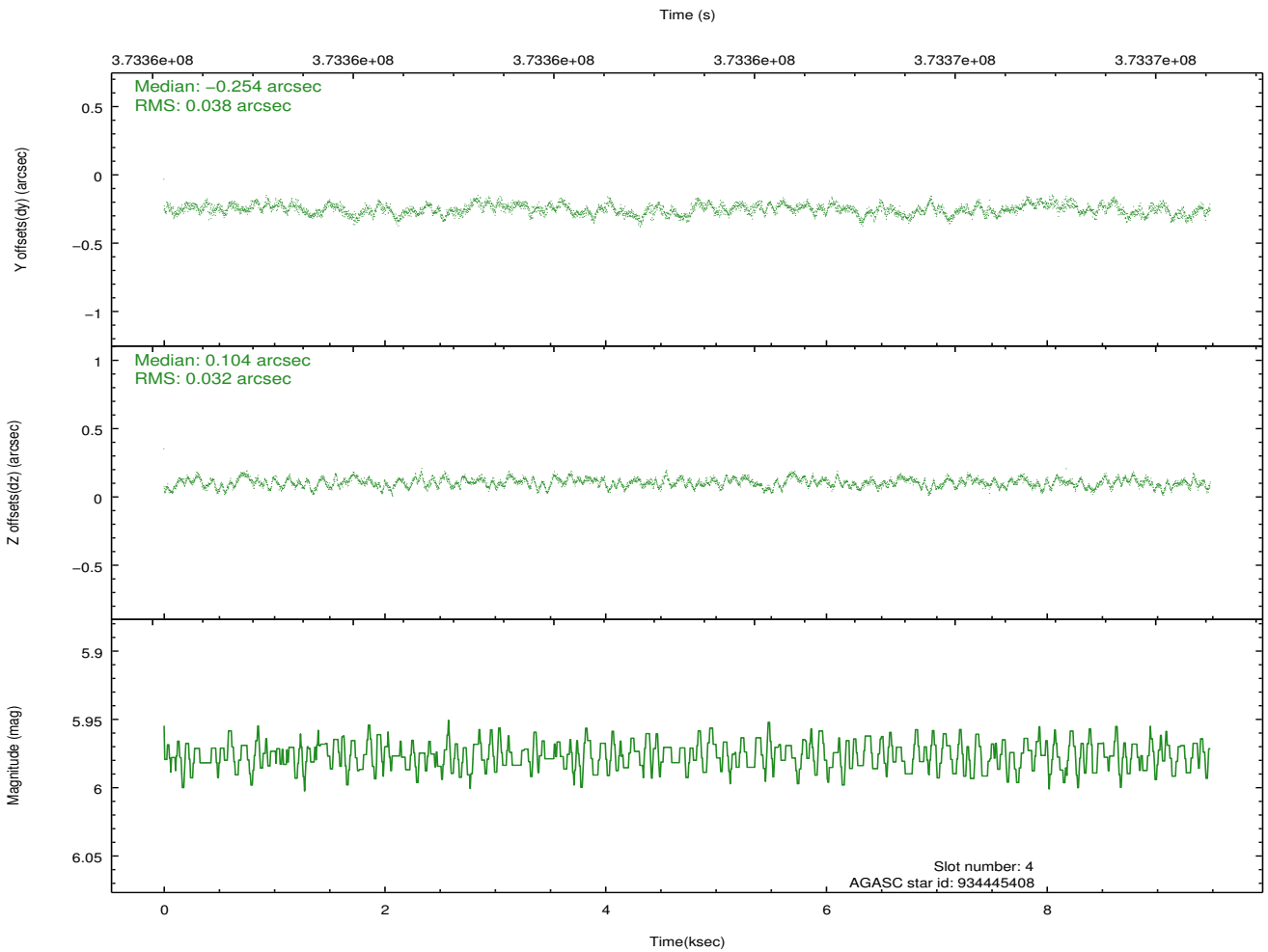
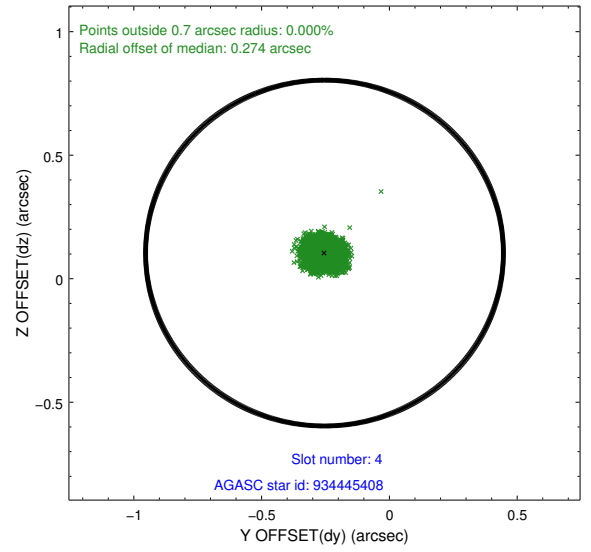
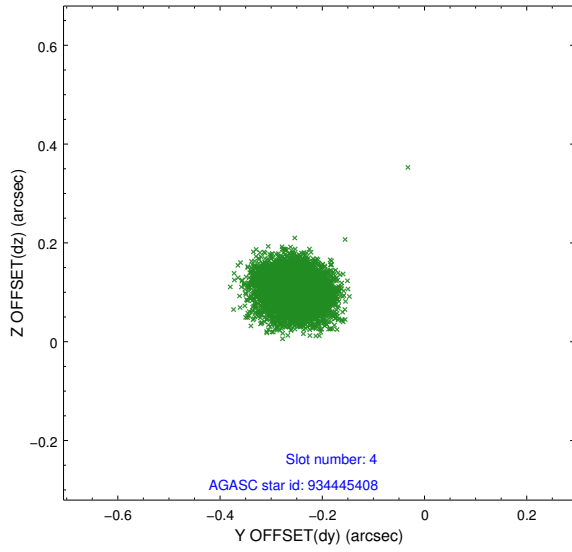
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.87	2313	-0.083	-0.058	0.011	0.017	0.000000	0.000000	-766.04	-1798.16
1	FID	ACIS-S-4	6.94	2313	0.173	0.056	0.009	0.016	0.000000	0.000000	2147.24	109.81
2	FID	ACIS-S-5	6.99	2313	-0.122	0.010	0.011	0.017	0.000000	0.000000	-1818.19	104.10
3	GUIDE	934443280	9.01	4621	0.129	0.047	0.098	0.169	123.348771	-35.369207	232.97	-1142.97
4	GUIDE	934445408	5.98	4626	-0.254	0.104	0.054	0.084	123.155863	-35.146509	913.49	-435.74
5	GUIDE	934449128	9.12	4621	0.142	-0.182	0.086	0.139	122.610732	-35.593771	-972.77	826.41
6	GUIDE	934449184	6.92	4619	-0.130	-0.060	0.062	0.101	123.461425	-35.208271	863.35	-1360.35
7	GUIDE	934448384	9.37	4615	0.117	0.089	0.098	0.159	123.060299	-35.434250	-156.29	-356.13

2.4 Star Slots

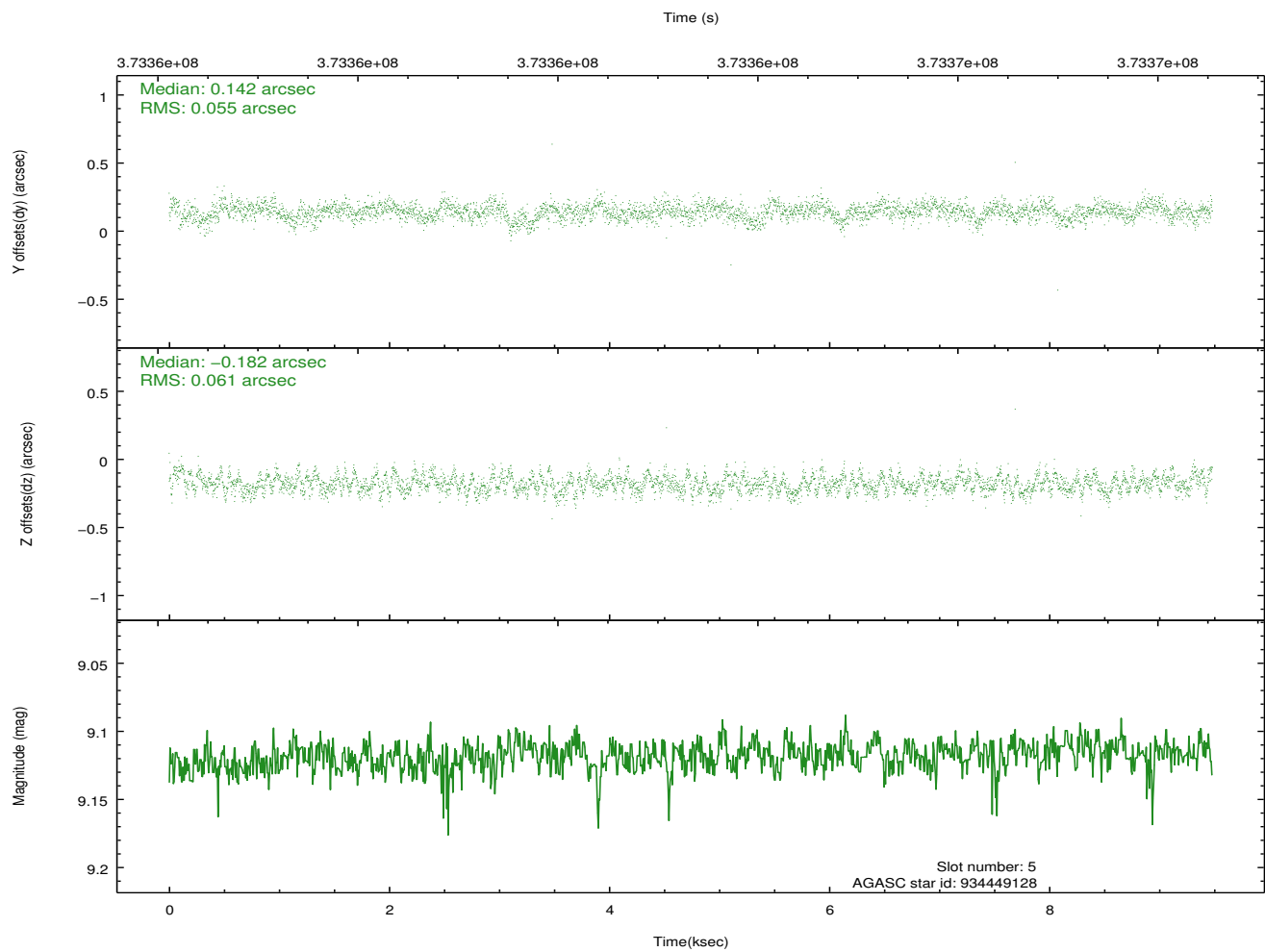
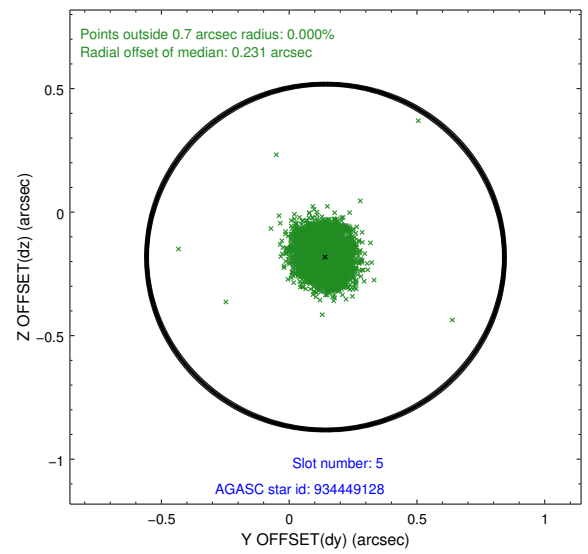
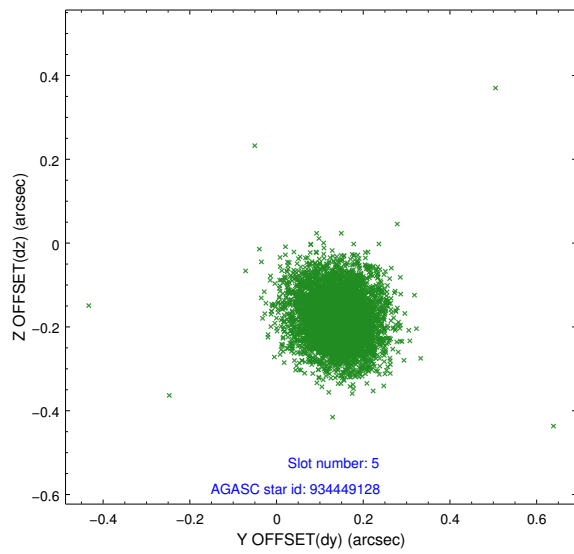
2.4.1 Slot 3



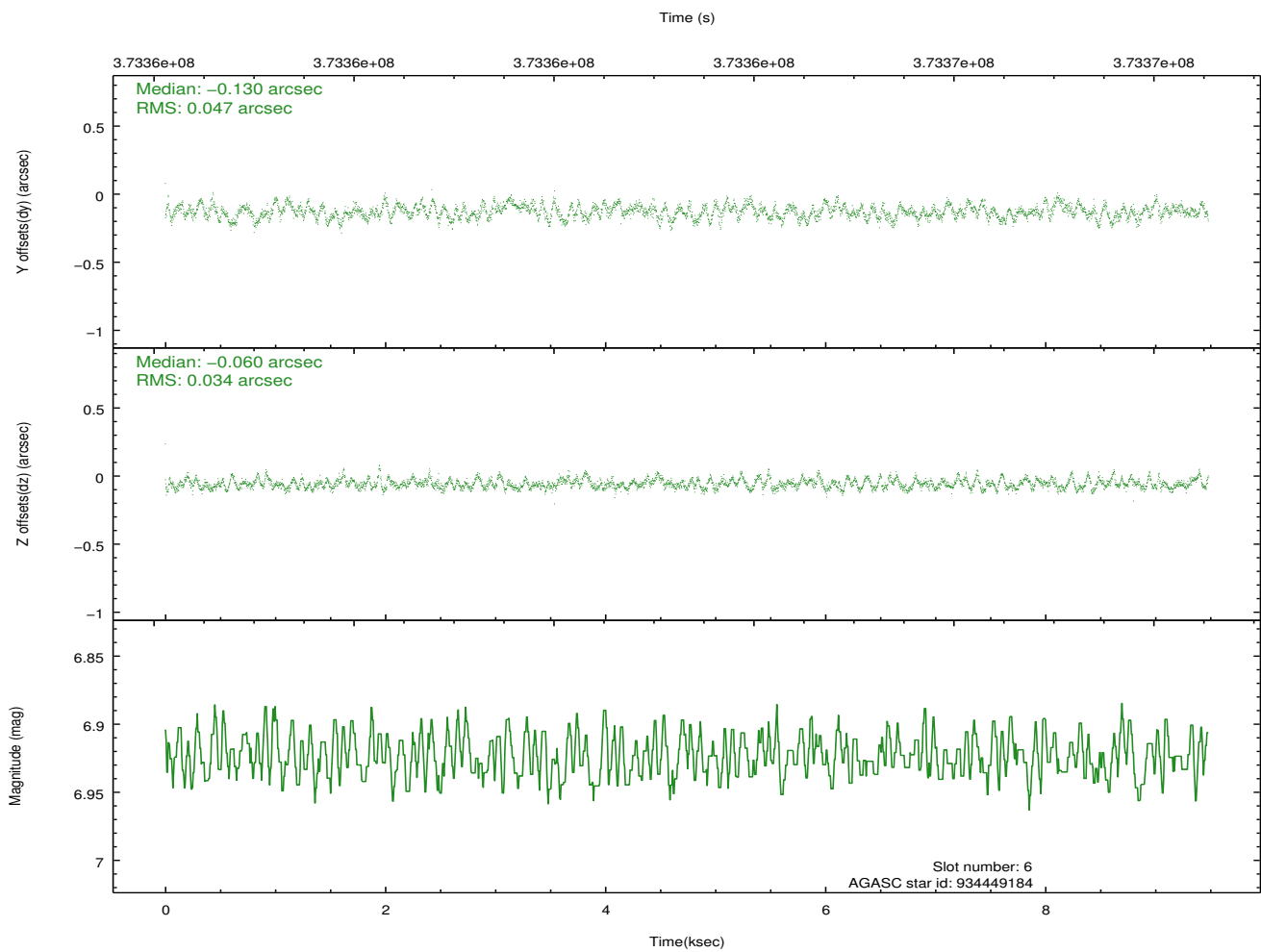
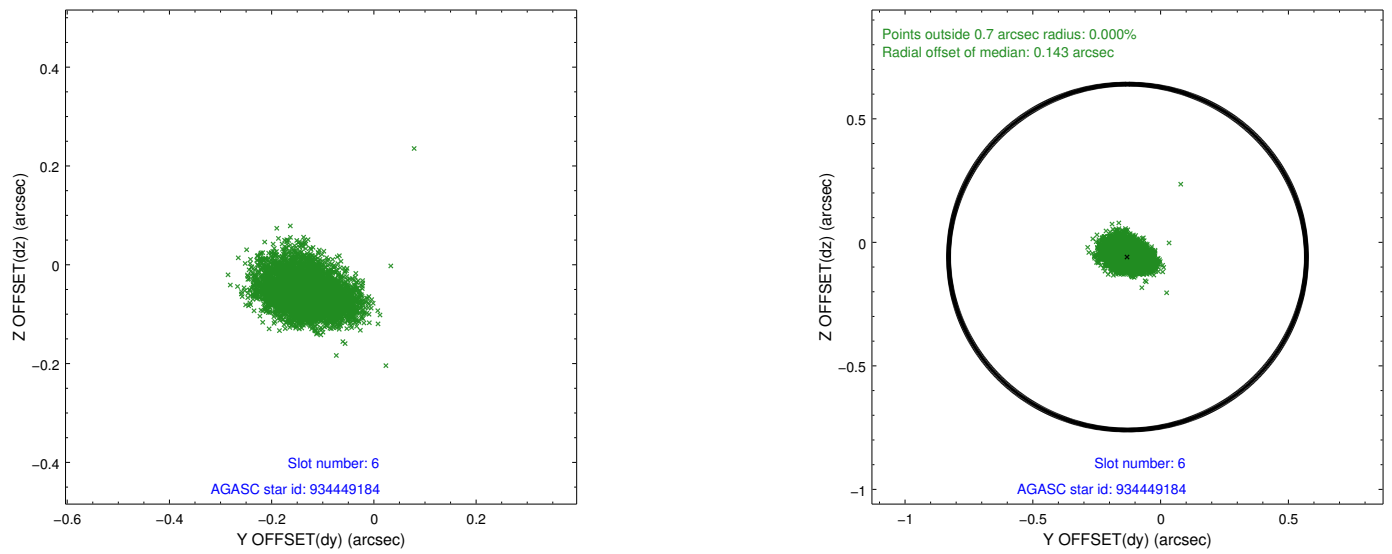
2.4.2 Slot 4



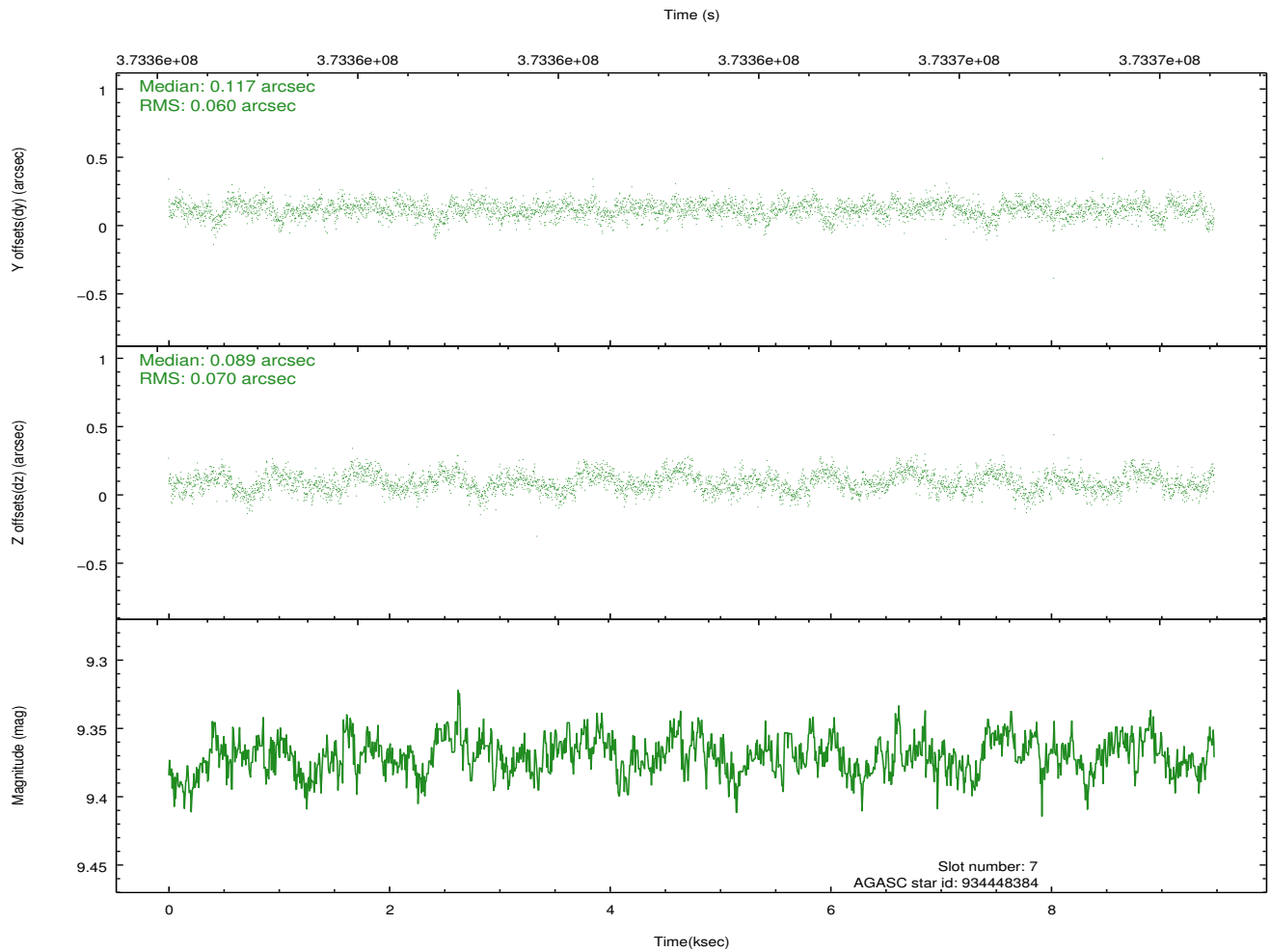
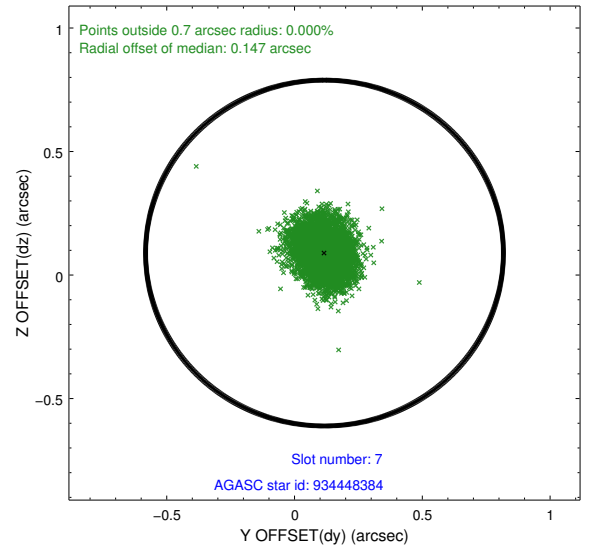
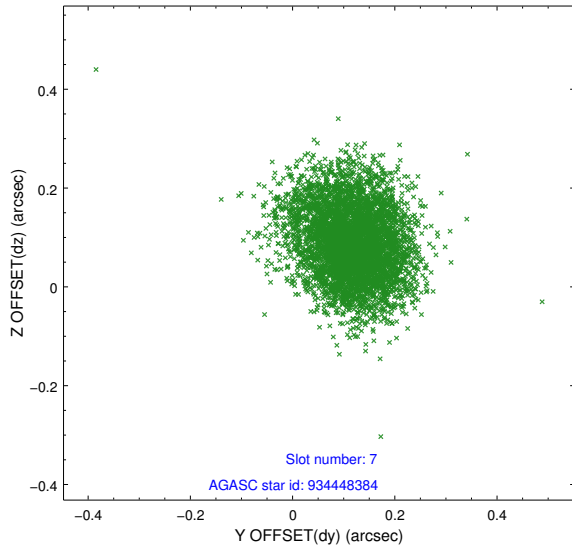
2.4.3 Slot 5



2.4.4 Slot 6

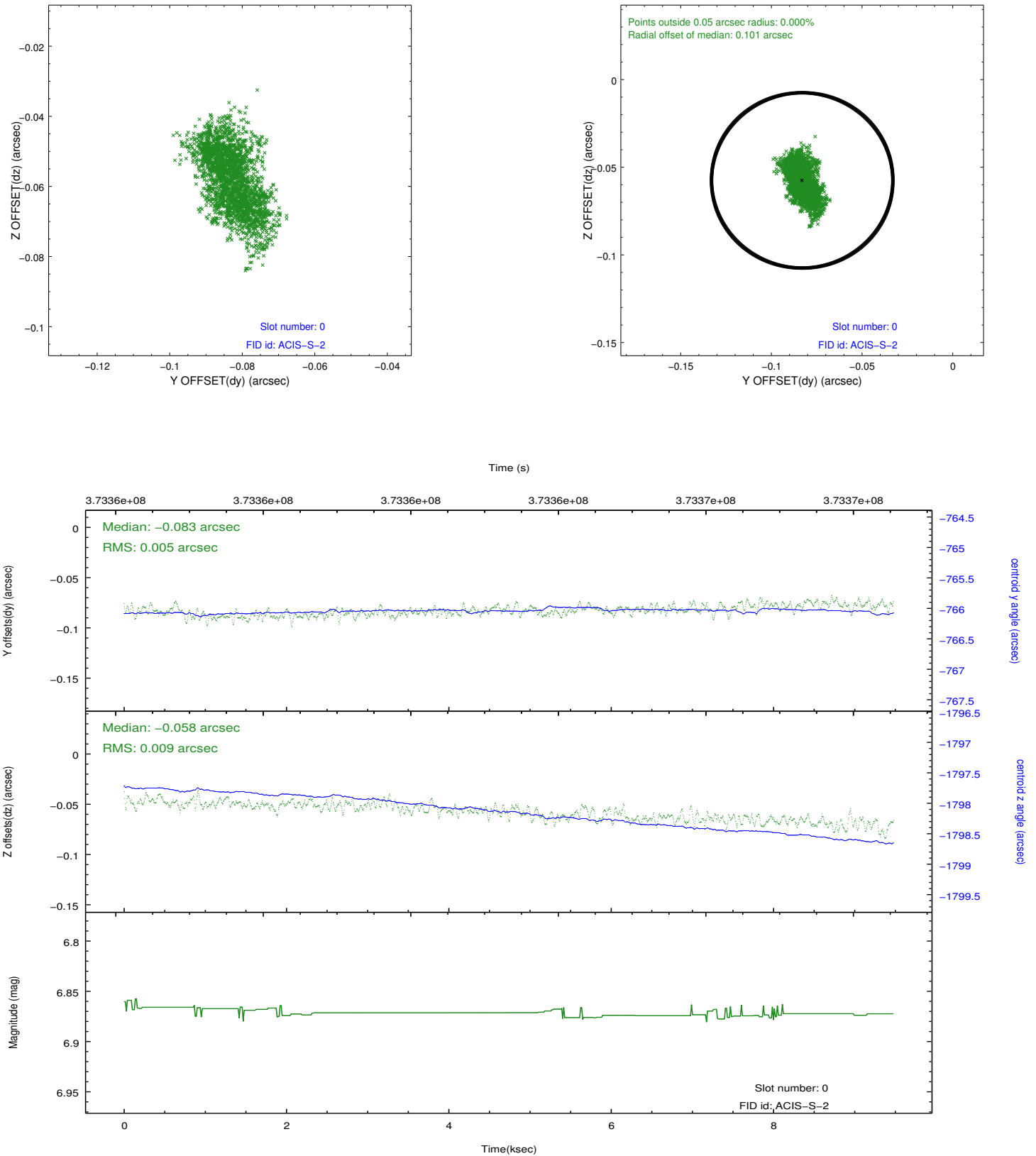


2.4.5 Slot 7

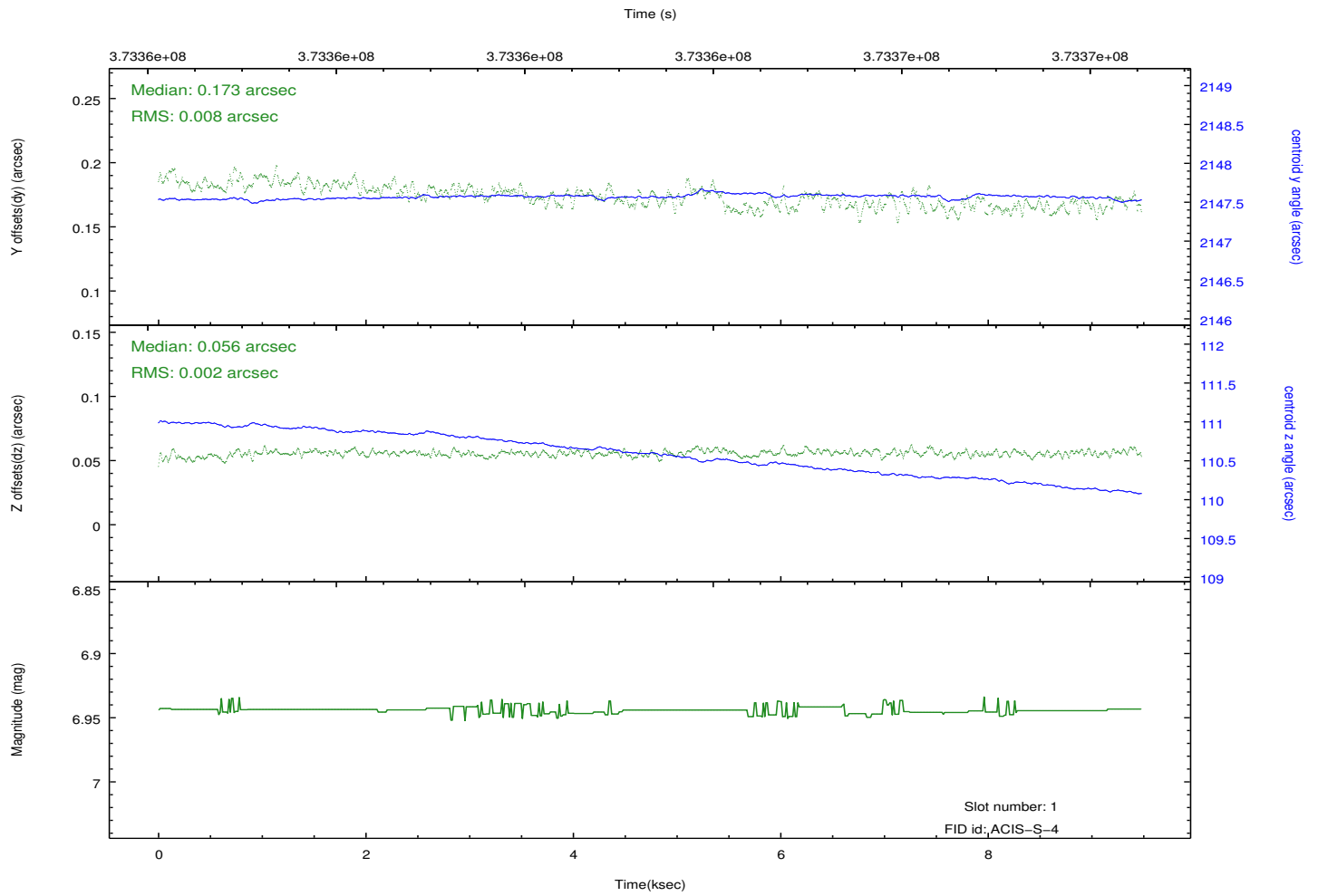
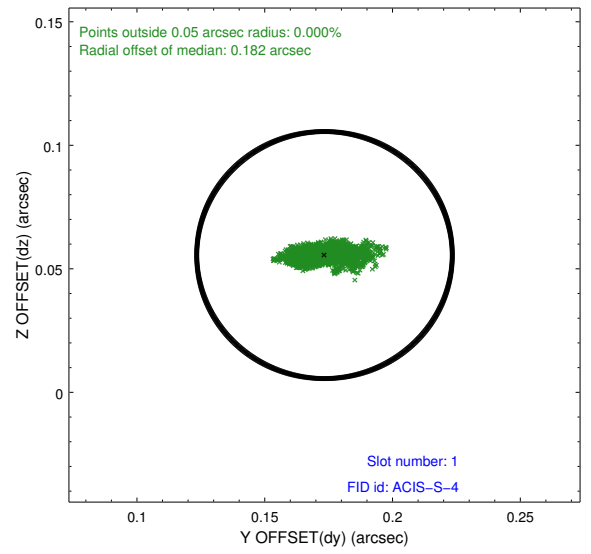
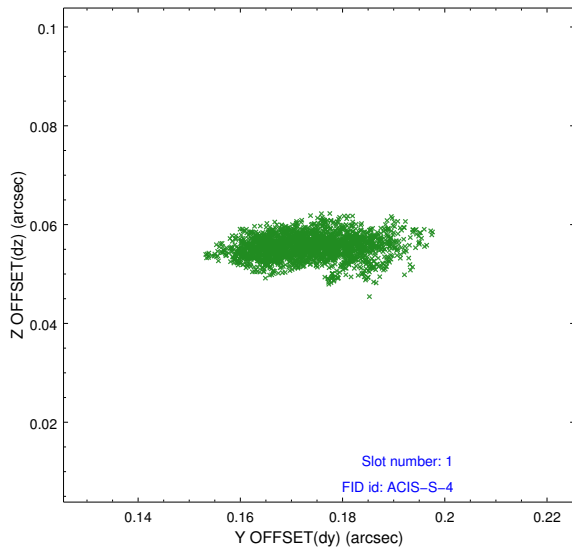


2.5 FID Slots

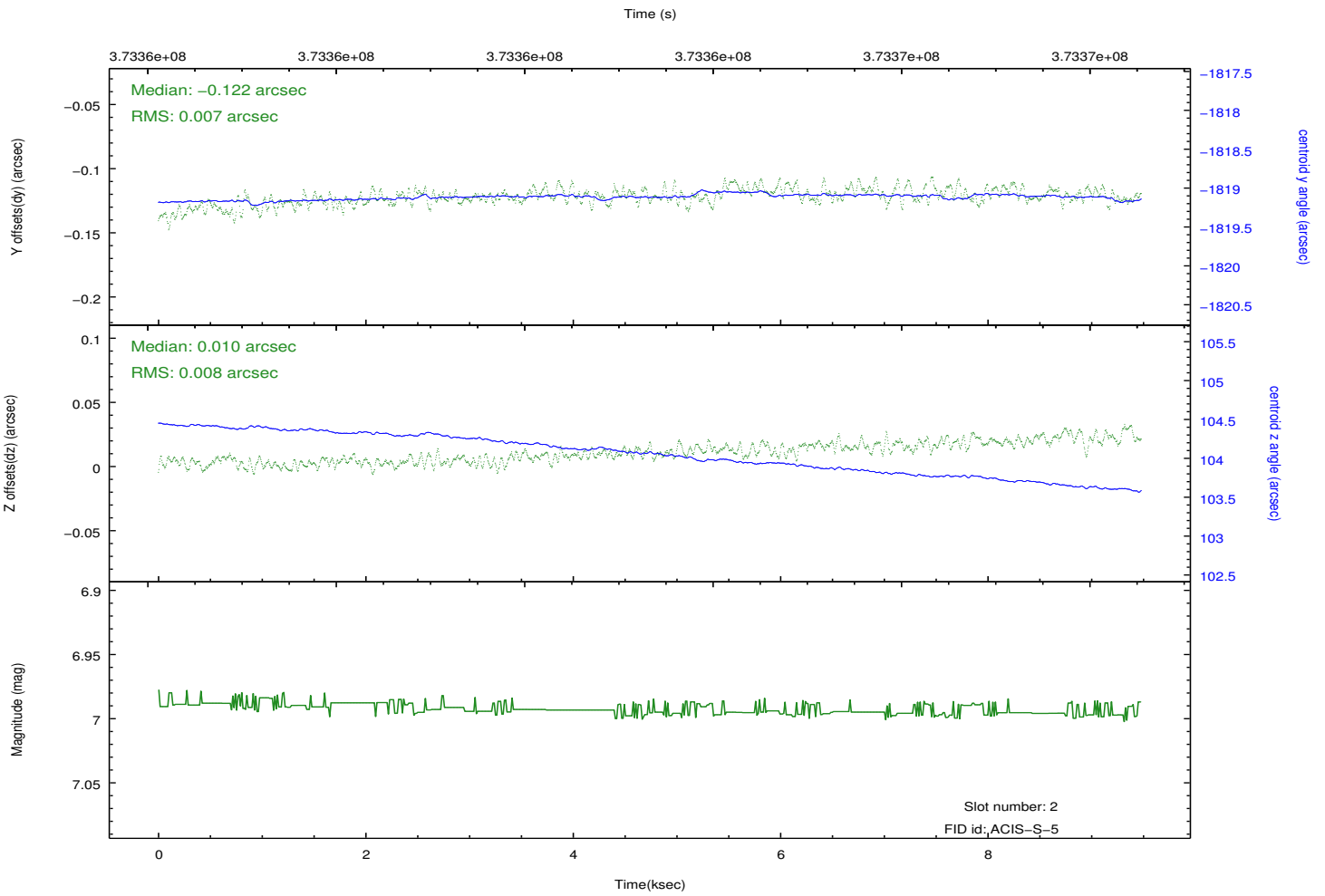
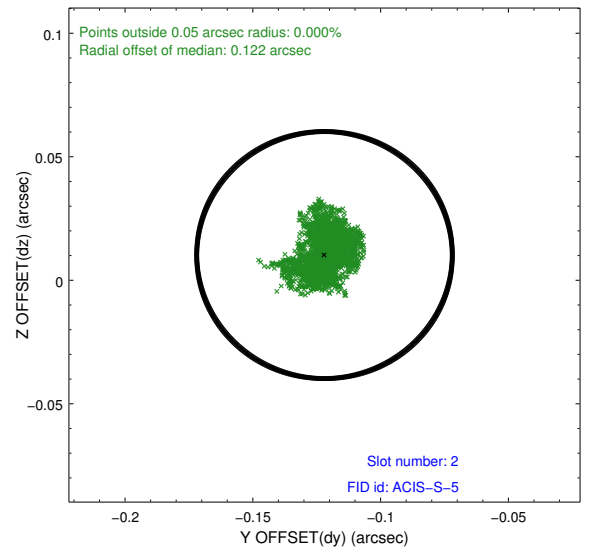
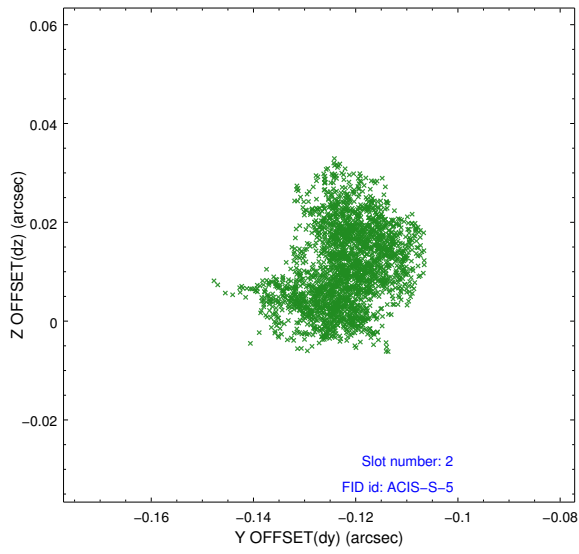
2.5.1 Slot 0



2.5.2 Slot 1

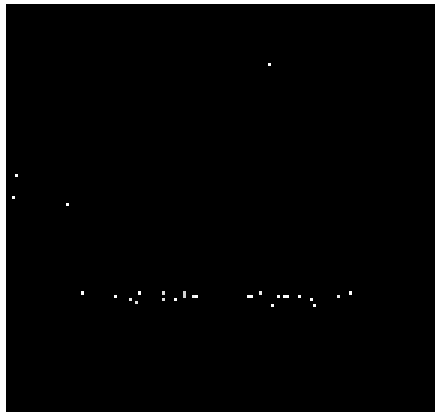


2.5.3 Slot 2

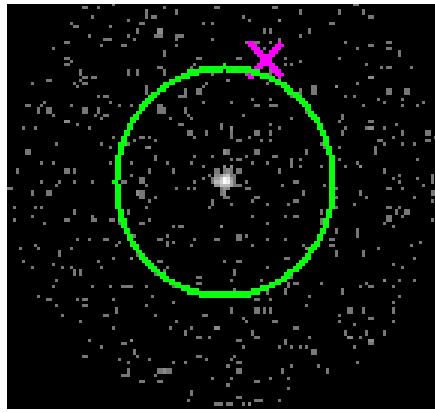


3 Gratings

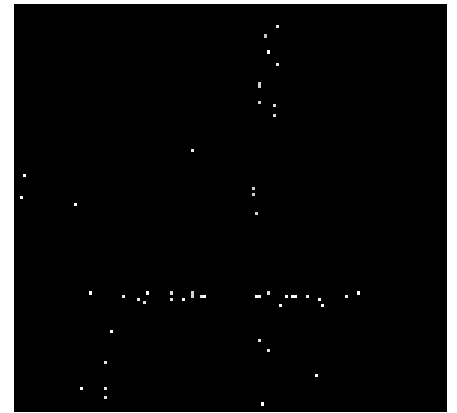
3.1 HEG Arm



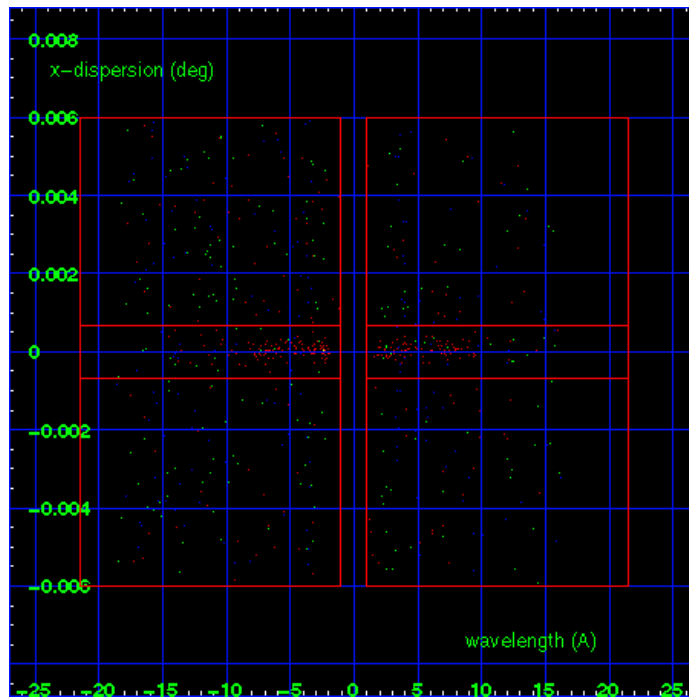
HEG Order Sort 123



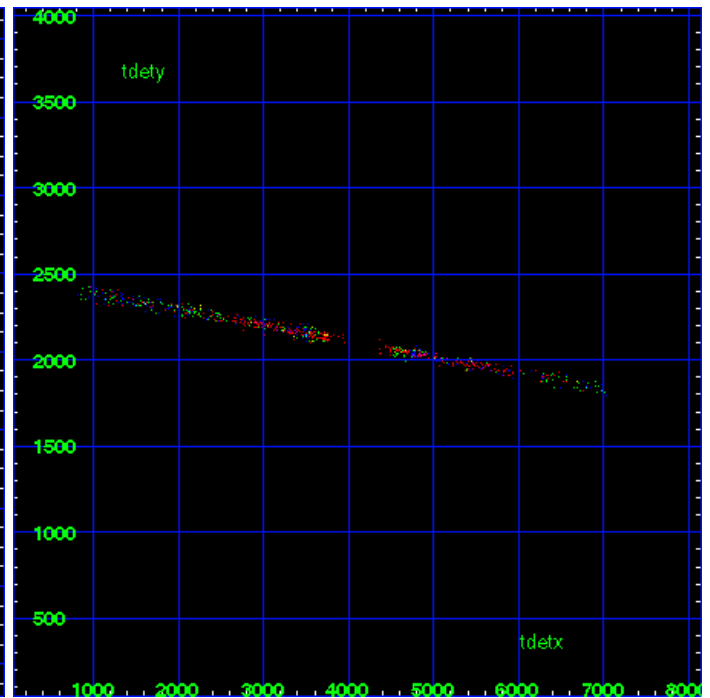
HEG Zero Order



HEG Order Sort ALL

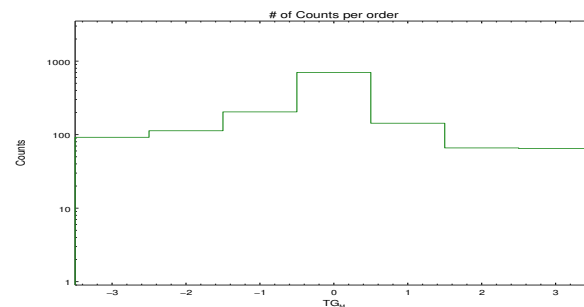


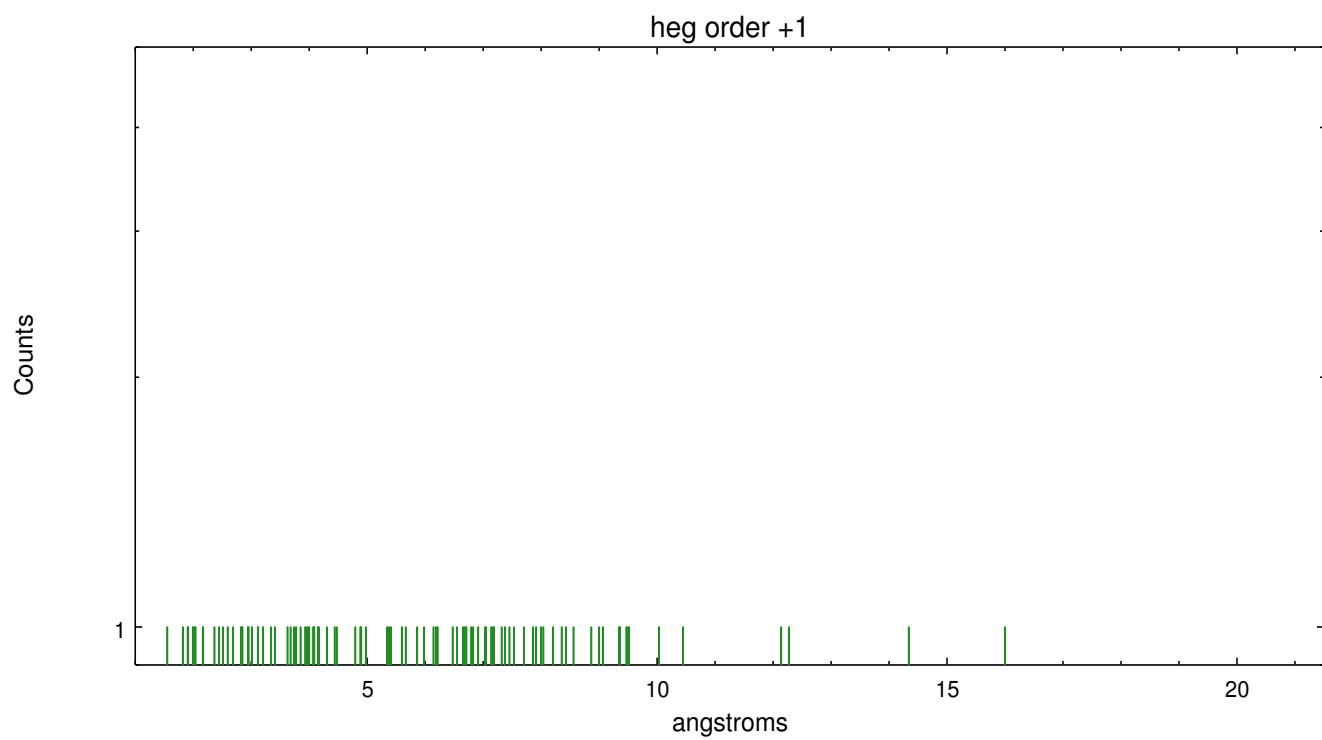
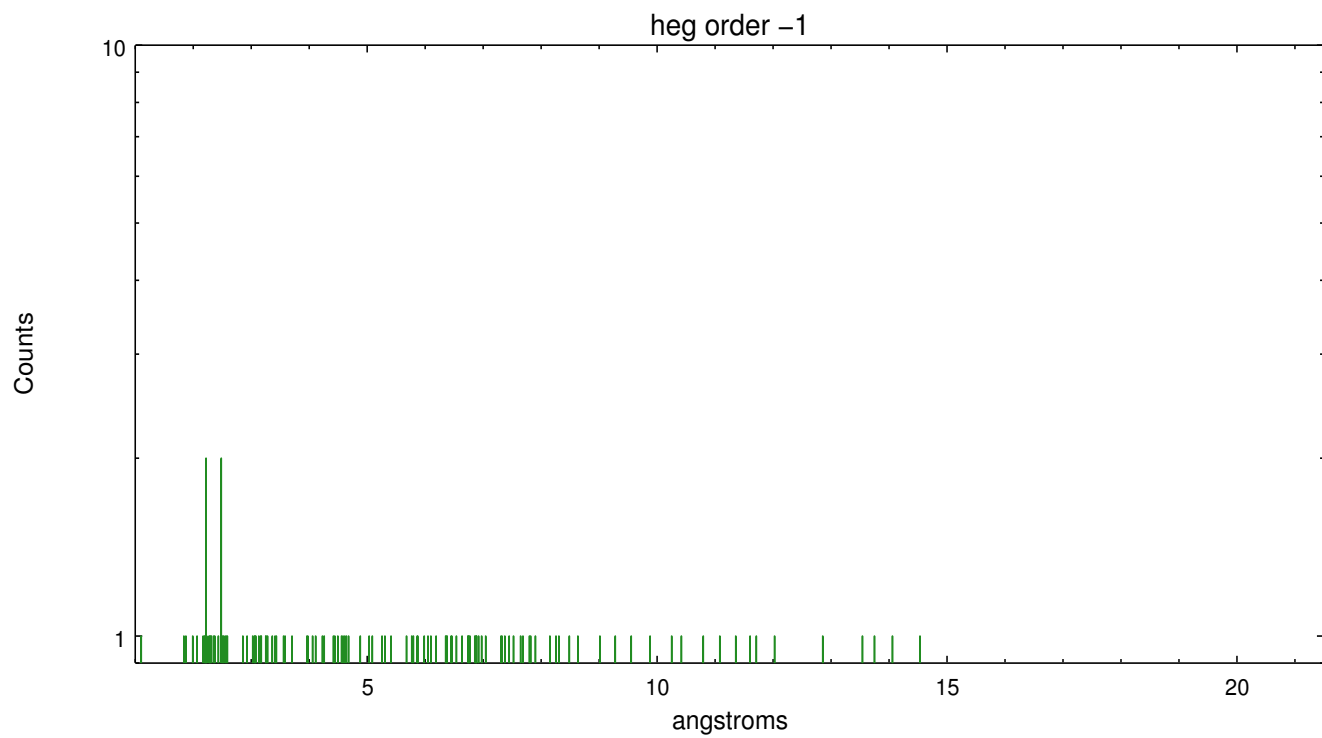
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	92	113	204	702	143	66	65

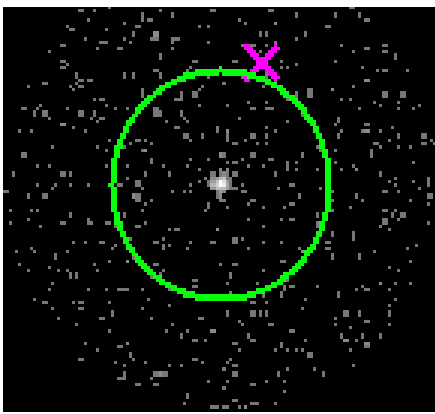




3.2 MEG Arm



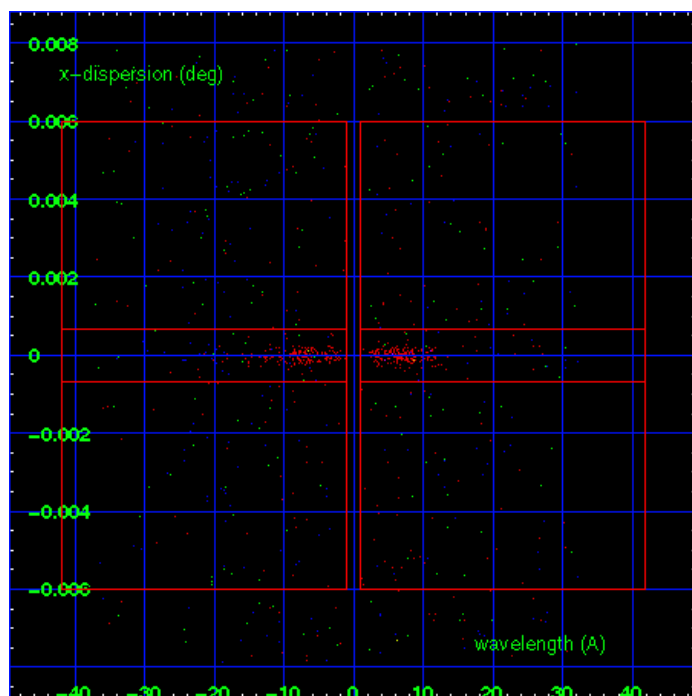
MEG Order Sort 123



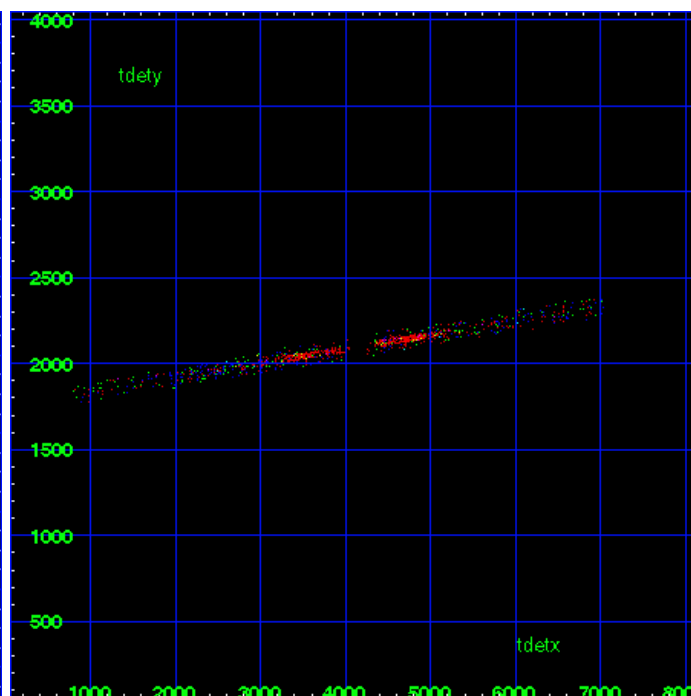
MEG Zero Order



MEG Order Sort ALL

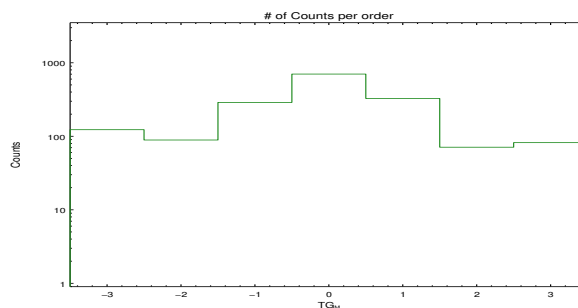


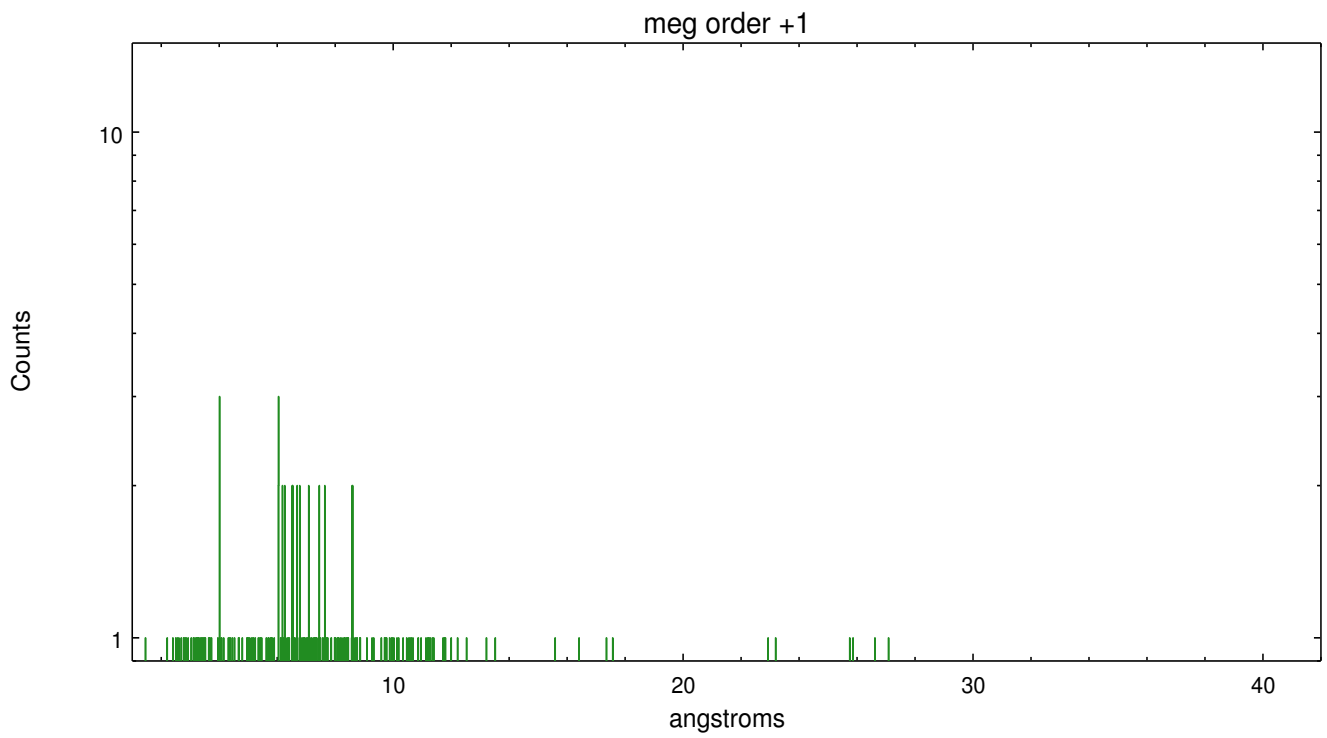
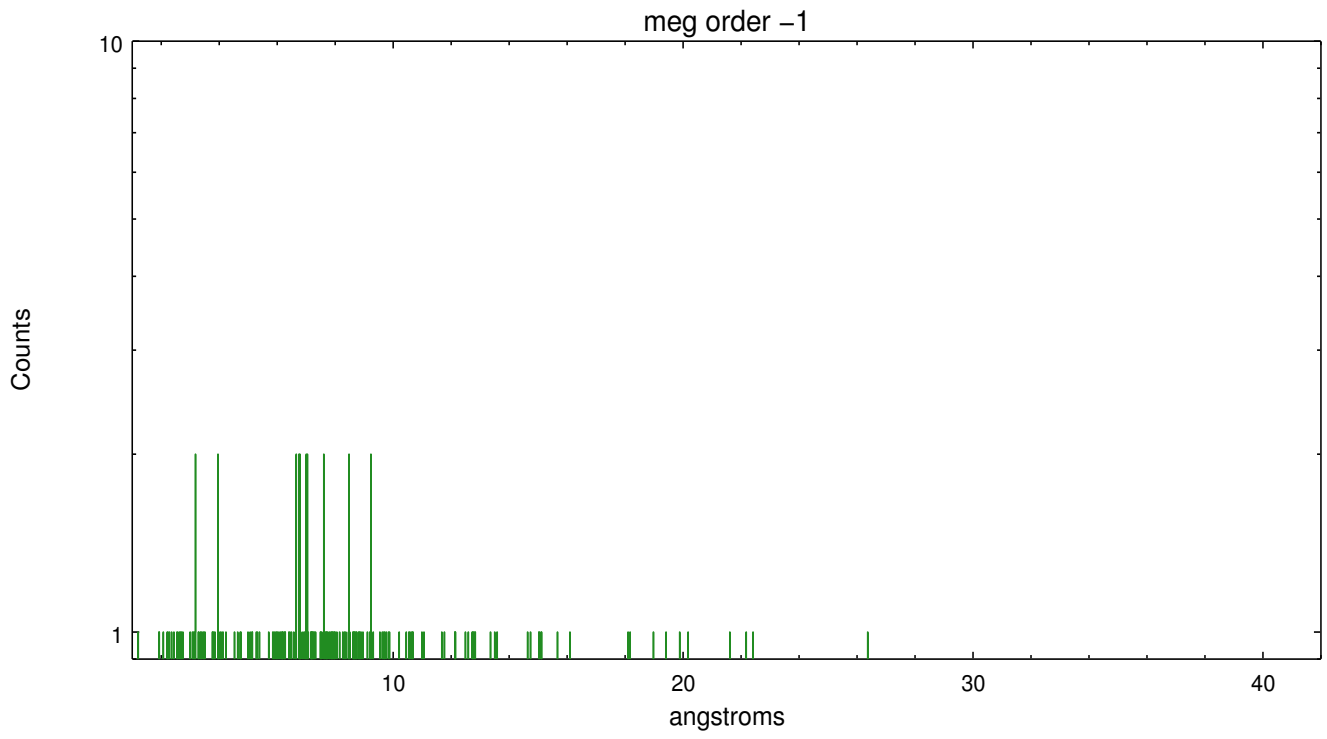
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	123	89	289	702	327	71	82





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.3375

A.2 Comments