

V&V Reference Report

L2 ASCDS Version : 8.5.1

Observation 5450 - L2 Version 3
Chandra X-Ray Center

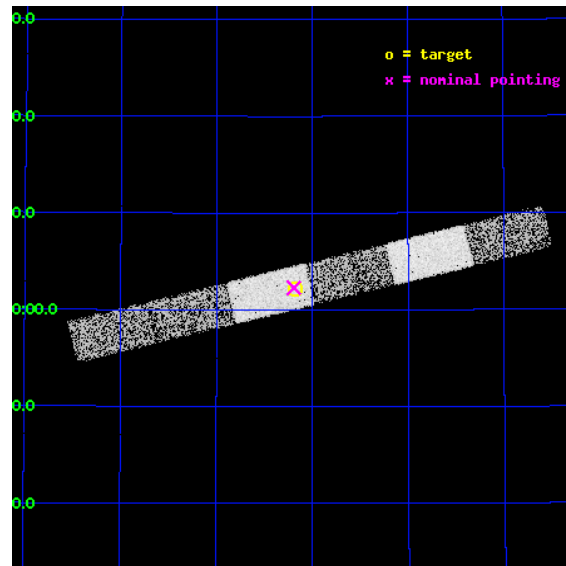
L2 Processing Date : Dec 28 2012

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1 Front

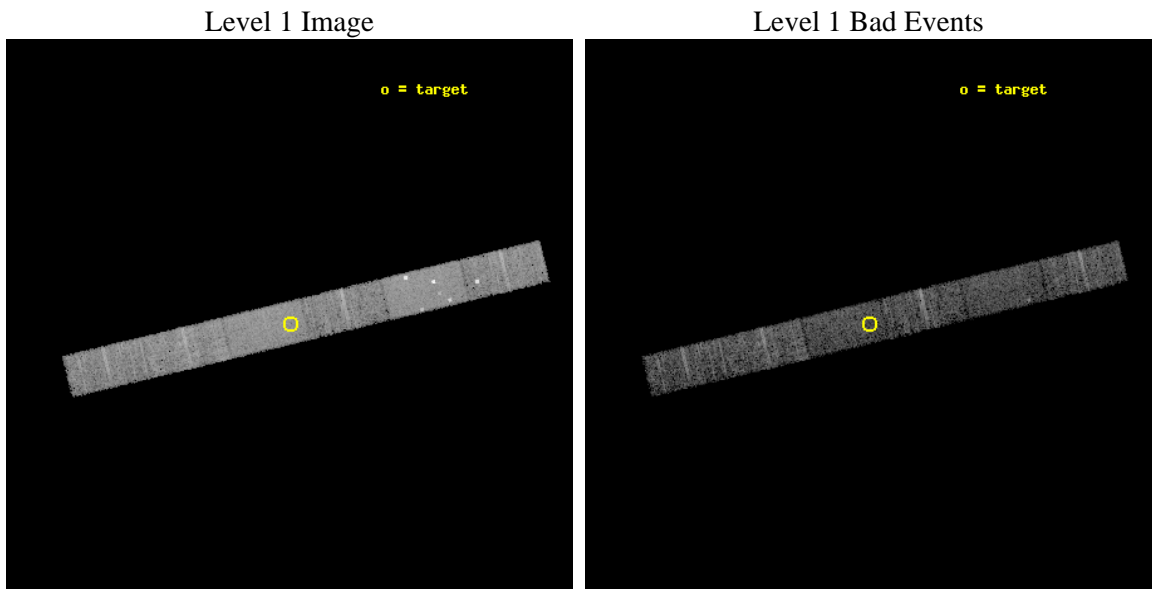
seq_num	400380	Sequence number
obs_id	5450	Observation id
title	Following a black hole candidate soft X-ray transient returning to quiescence	Proposal title
observer	dr Peter Jonker	Principal investigator
object	XTE J1118+480	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	169.545417	Observer's specified target RA [deg]
dec_targ	48.036944	Observer's specified target Dec [deg]
ra_nom	169.54809263045	Nominal RA [deg]
dec_nom	48.038125122006	Nominal Dec [deg]
roll_nom	166.43203805124	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5094.0000337362	Sum of GTIs [s]
livetime	4980.4458679471	Livetime [s]
ontime4	5094.0000337362	Sum of GTIs [s]
ontime5	5094.0000337362	Sum of GTIs [s]
ontime6	5094.0000337362	Sum of GTIs [s]
ontime7	5094.0000337362	Sum of GTIs [s]
ontime8	5094.0000337362	Sum of GTIs [s]
ontime9	5094.0000337362	Sum of GTIs [s]
l2events	31607	Number of level 2 events



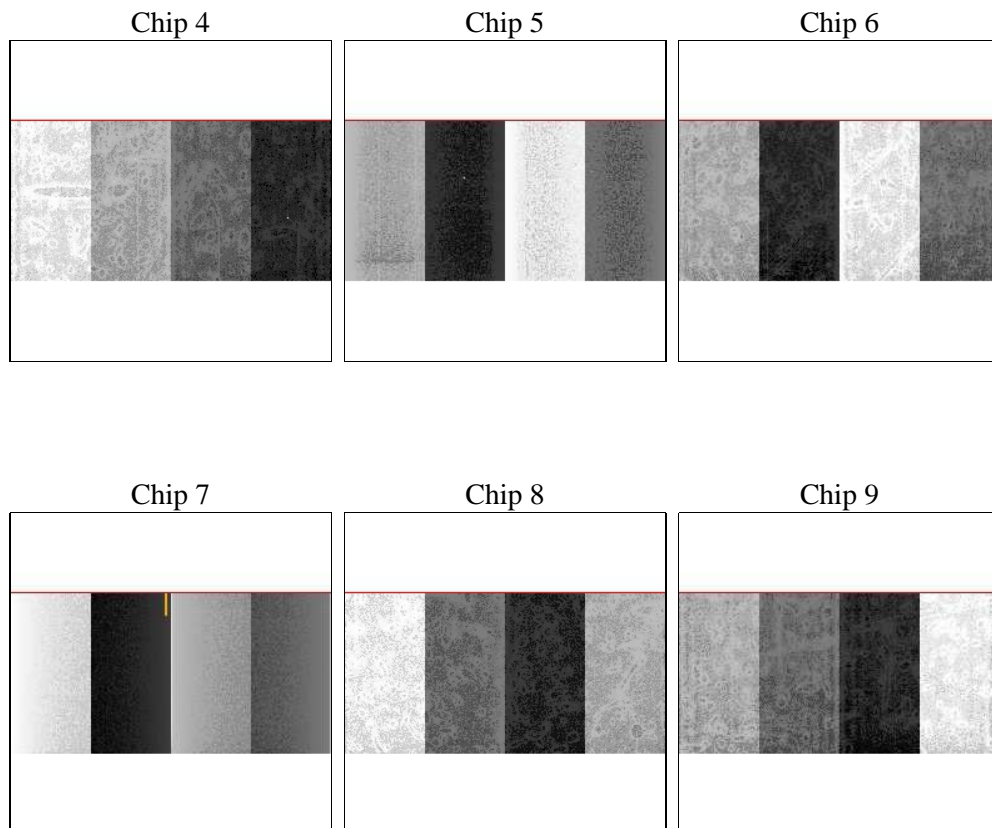
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1	Processing system revision	ontime	5094.0000337362	Sum of GTIs [s]
caldbver	4.5.5	 	ontime4	5094.0000337362	Sum of GTIs [s]
date	2012-12-17T19:27:41	Date and time of file creation	ontime5	5094.0000337362	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	5094.0000337362	Sum of GTIs [s]
			ontime7	5094.0000337362	Sum of GTIs [s]
			ontime8	5094.0000337362	Sum of GTIs [s]
			ontime9	5094.0000337362	Sum of GTIs [s]
			l1events	153304	Number of level 1 events

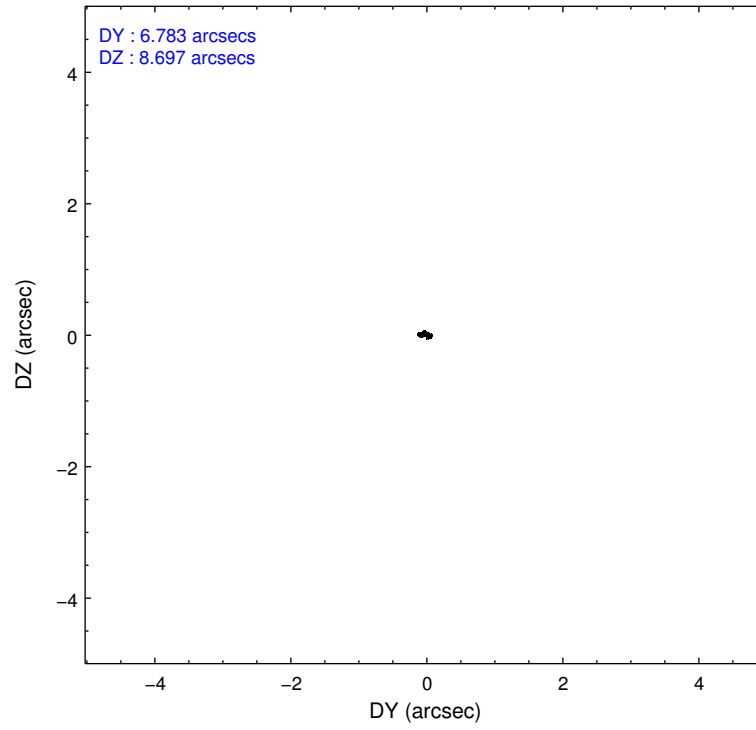
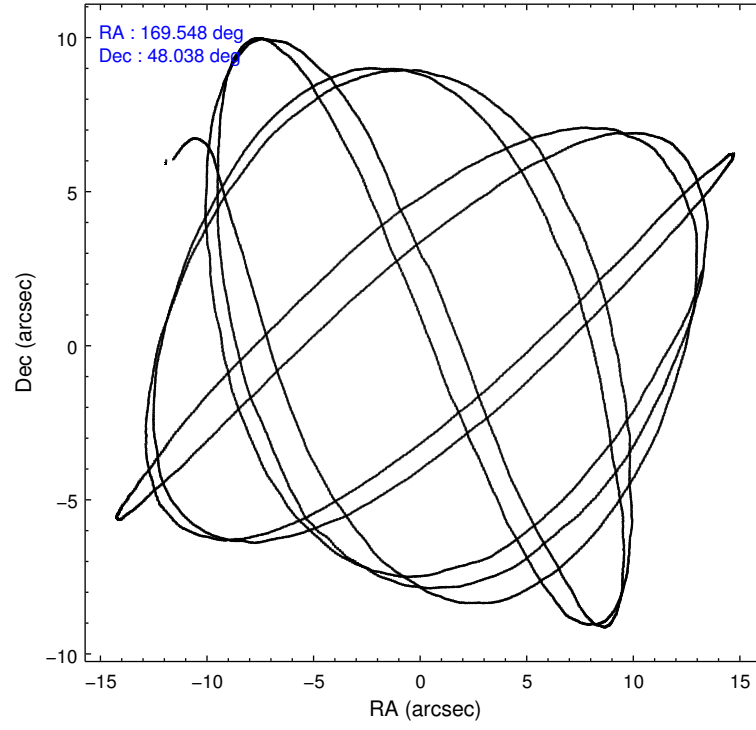
2.1.4 Events

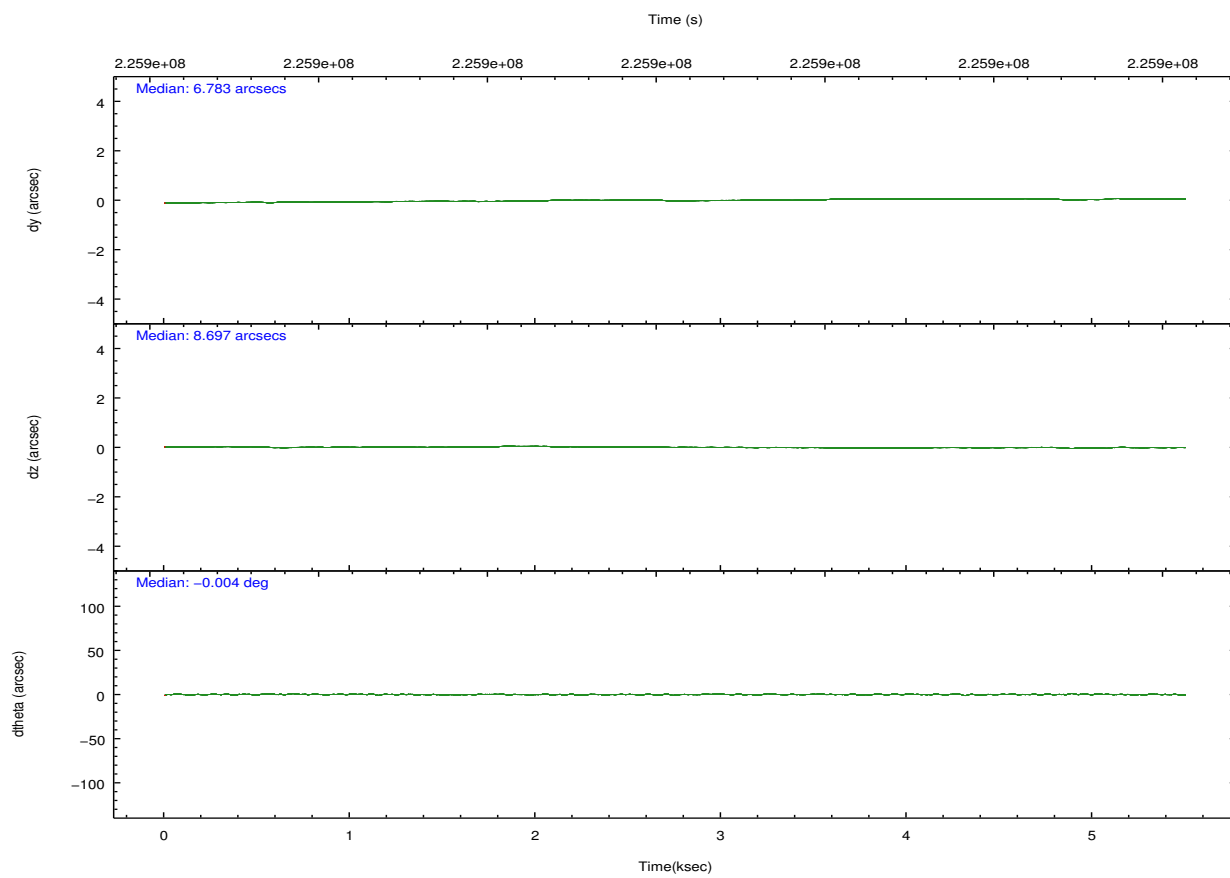
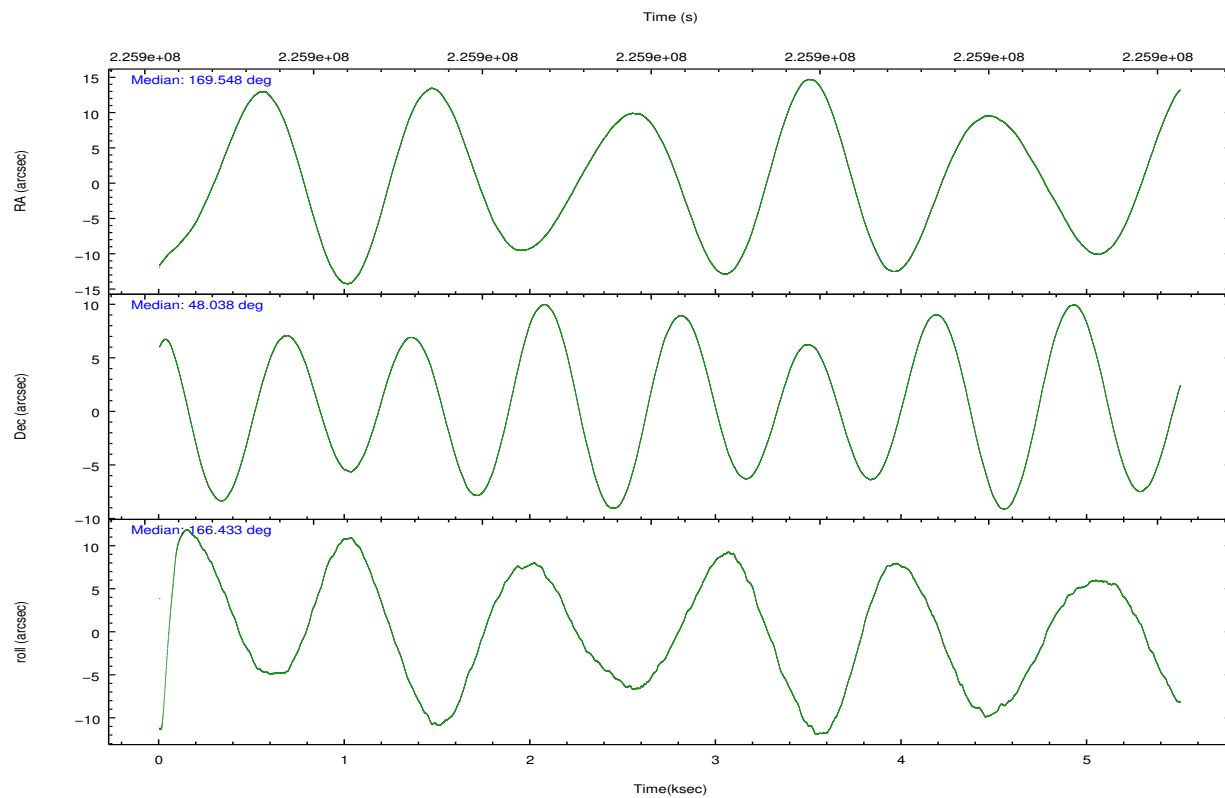
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	25105	34744	20502	26573	26334	20046	grade 0 events	3042	6629	871	1009	1515	968
rejected events	20521	15806	18115	15463	21265	17546		12%	19%	4%	3%	5%	4%
rejected %	81%	45%	88%	58%	80%	87%	grade 1 events	21	41	9	37	14	12
								0%	0%	0%	0%	0%	0%
							grade 2 events	576	4290	521	2285	1081	474
								2%	12%	2%	8%	4%	2%
							grade 3 events	295	656	253	1107	564	295
								1%	1%	1%	4%	2%	1%
							grade 4 events	297	593	269	1088	556	265
								1%	1%	1%	4%	2%	1%
							grade 5 events	923	2275	882	2516	1135	957
								3%	6%	4%	9%	4%	4%
							grade 6 events	387	6783	473	5631	1367	503
								1%	19%	2%	21%	5%	2%
							grade 7 events	19564	13477	17224	12900	20102	16572
								77%	38%	84%	48%	76%	82%

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	169.587064	169.5480926304517	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	48.046260	48.03812512200639	Subarray start row	257	257
[deg] Pointing Roll	166.246482	166.4320380512399	Subarray row count	512	512
[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	1.8
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	225897866.184000	225896753.47412			
Observation start date	2005-02-27T13:23:22	2005-02-27T13:05:53			
[s] Observation end time (MET)	225902866.184000	225903523.59943			
Observation end date	2005-02-27T14:46:42	2005-02-27T14:58:43			
Read mode	TIMED	TIMED			

2.3 Aspect



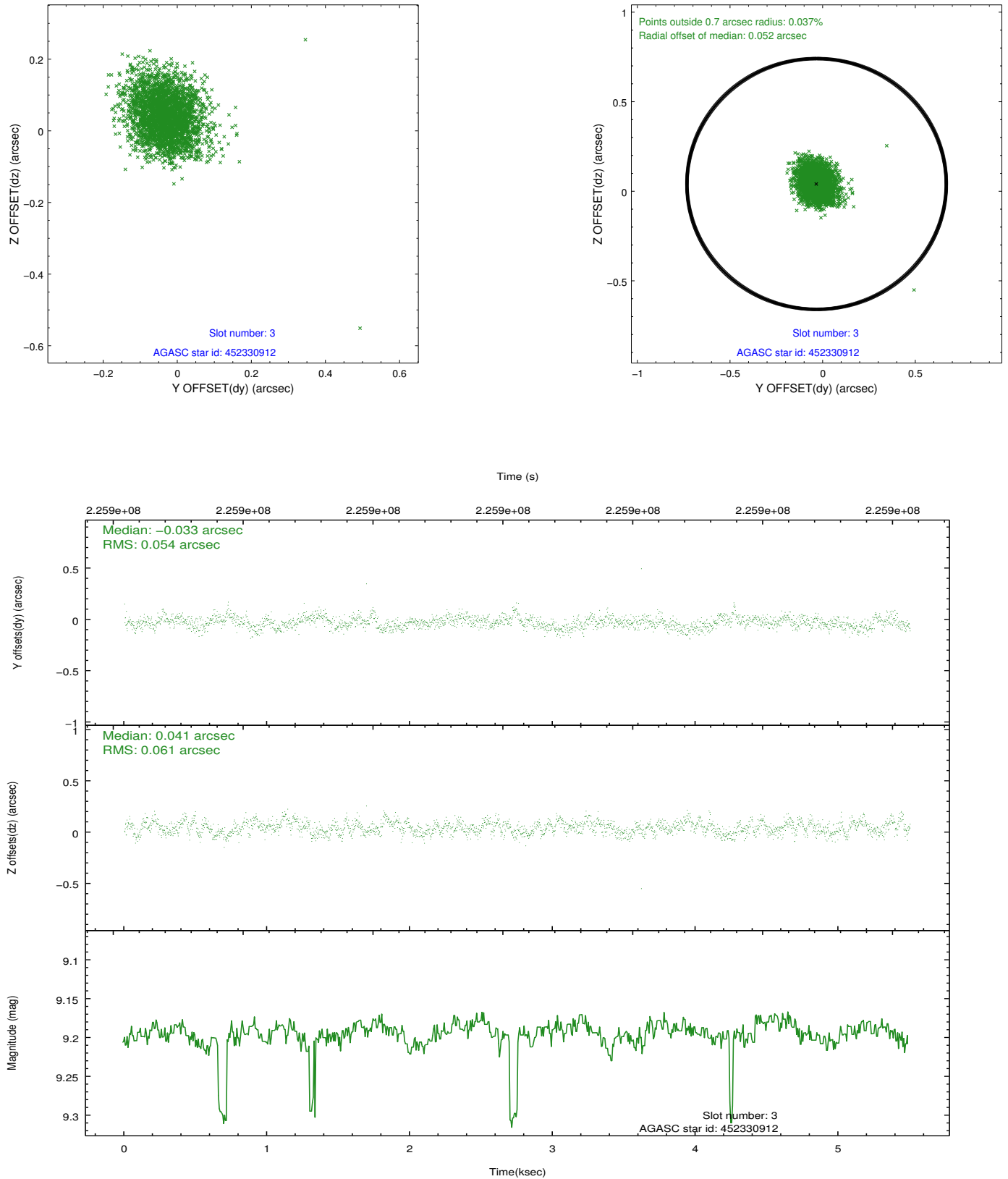


Slot Statistics

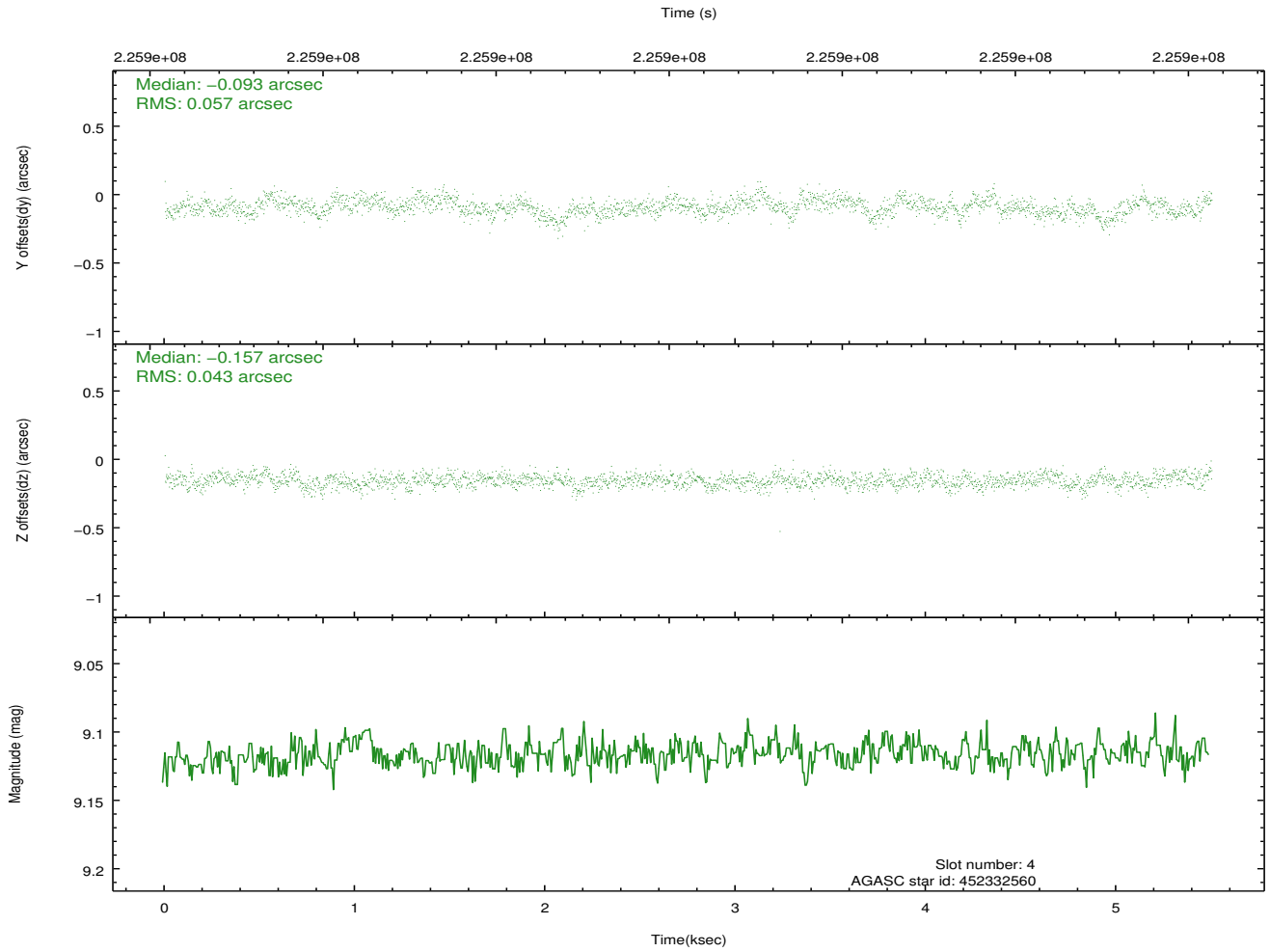
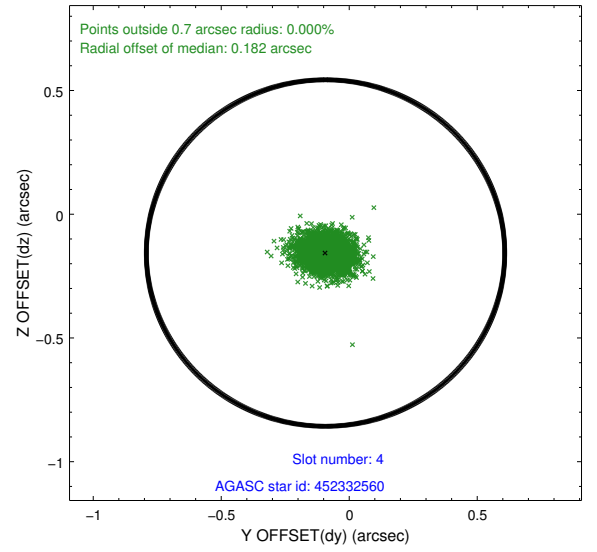
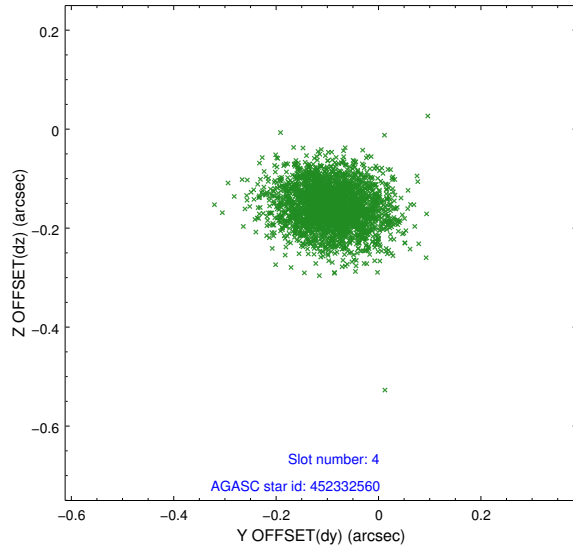
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1342	-0.031	-0.043	0.007	0.011	0.000000	0.000000	-759.55	-1729.90
1	FID	ACIS-S-4	7.21	1342	0.072	0.026	0.006	0.010	0.000000	0.000000	2153.34	177.53
2	FID	ACIS-S-5	7.23	1342	-0.071	0.025	0.006	0.011	0.000000	0.000000	-1811.03	172.44
3	GUIDE	452330912	9.19	2671	-0.033	0.041	0.084	0.137	170.294974	48.205150	-1511.68	-966.86
4	GUIDE	452332560	9.12	2683	-0.093	-0.157	0.076	0.125	168.907013	48.101061	1636.22	189.49
5	GUIDE	452333480	8.71	2684	0.081	0.029	0.076	0.124	170.336265	47.786774	-1979.29	468.12
6	GUIDE	452335632	7.67	2684	-0.060	-0.061	0.065	0.100	169.329594	47.936340	508.77	531.20
7	GUIDE	451813480	9.72	2683	0.103	0.149	0.173	0.264	168.679971	48.384979	2399.93	-681.02

2.4 Star Slots

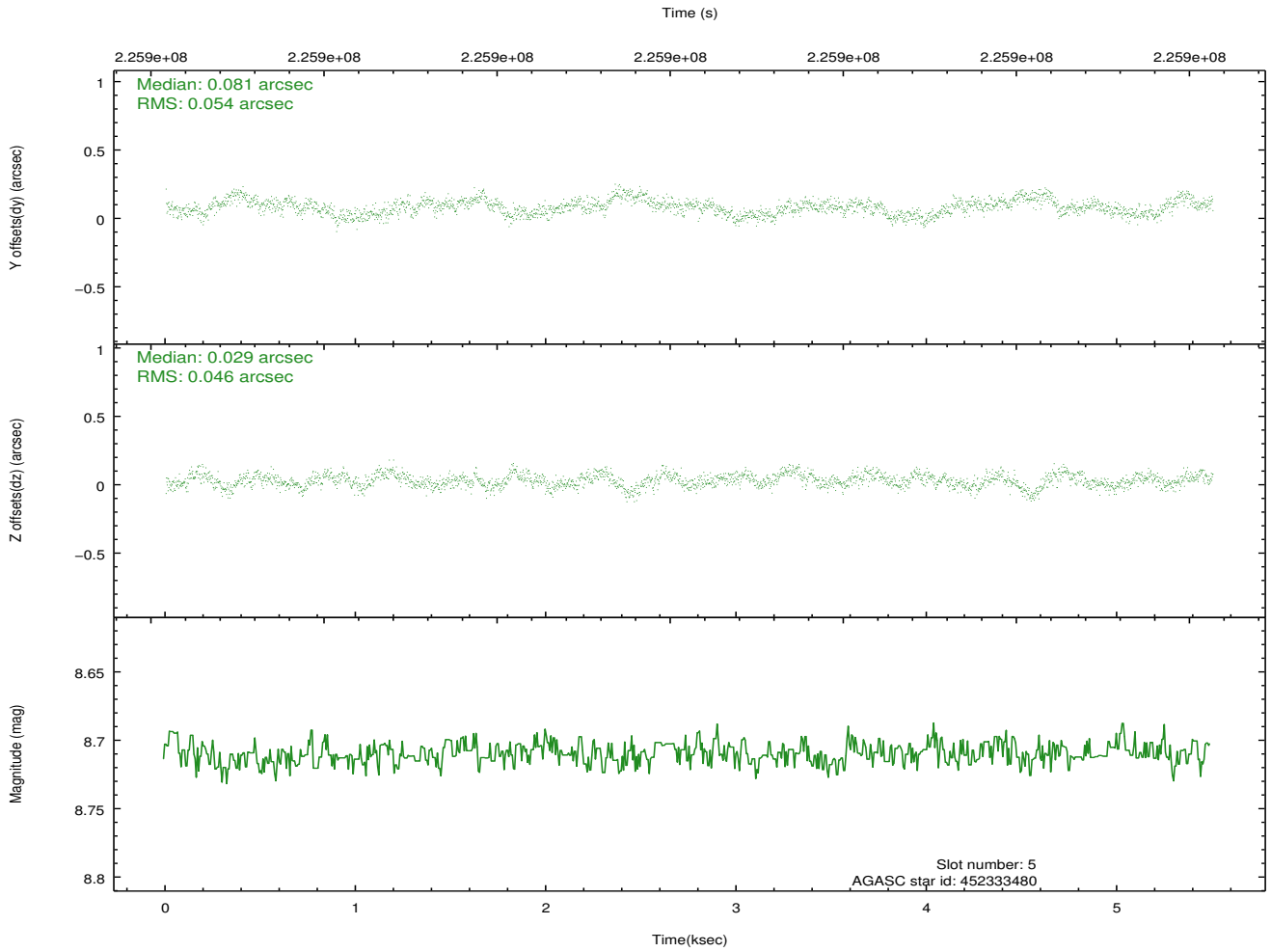
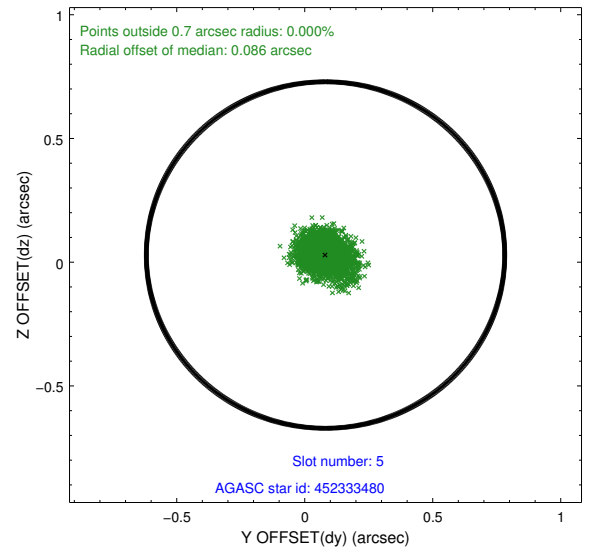
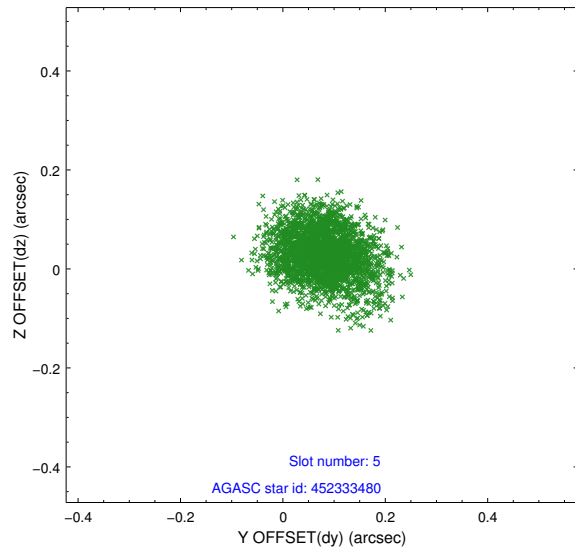
2.4.1 Slot 3



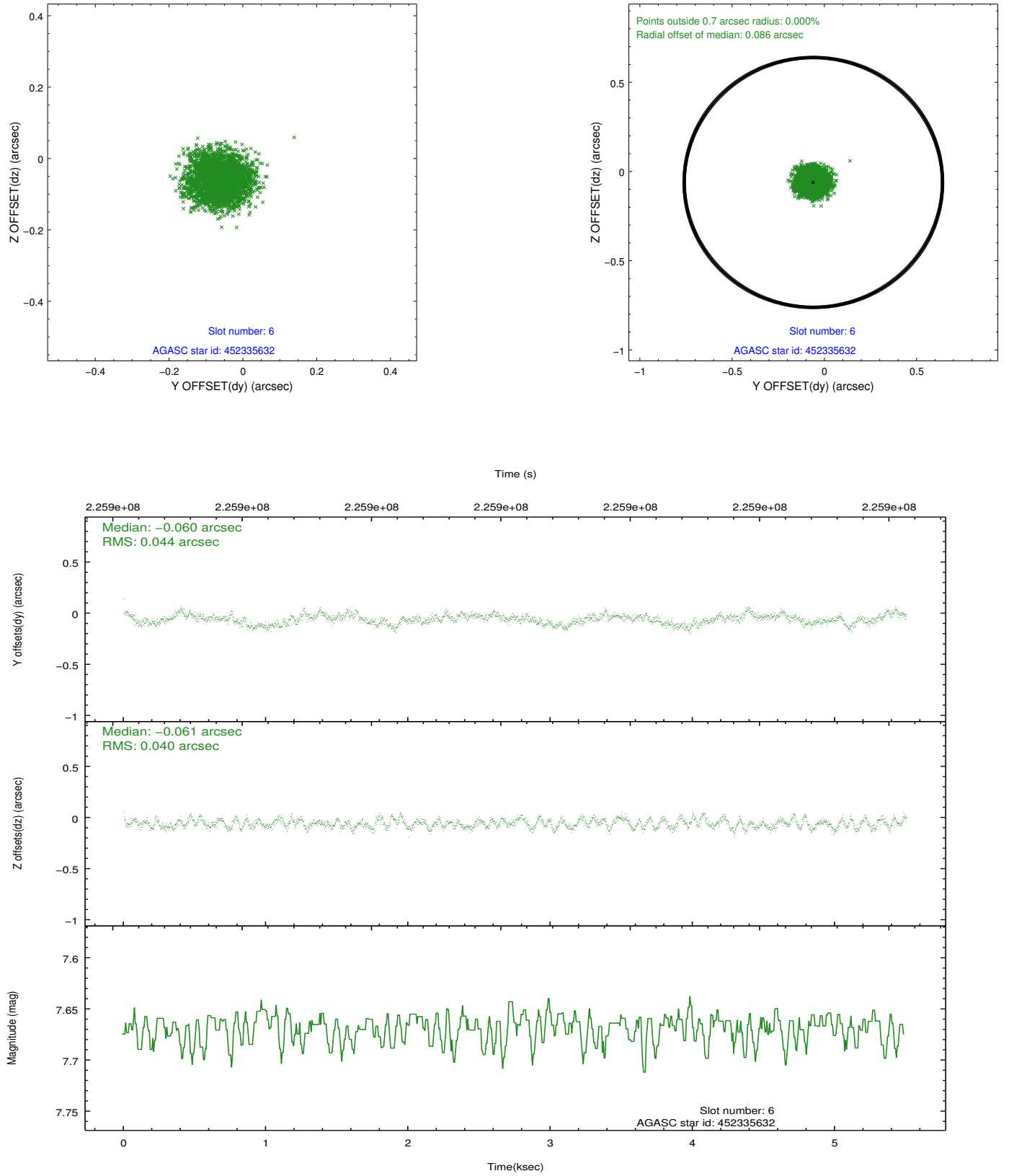
2.4.2 Slot 4



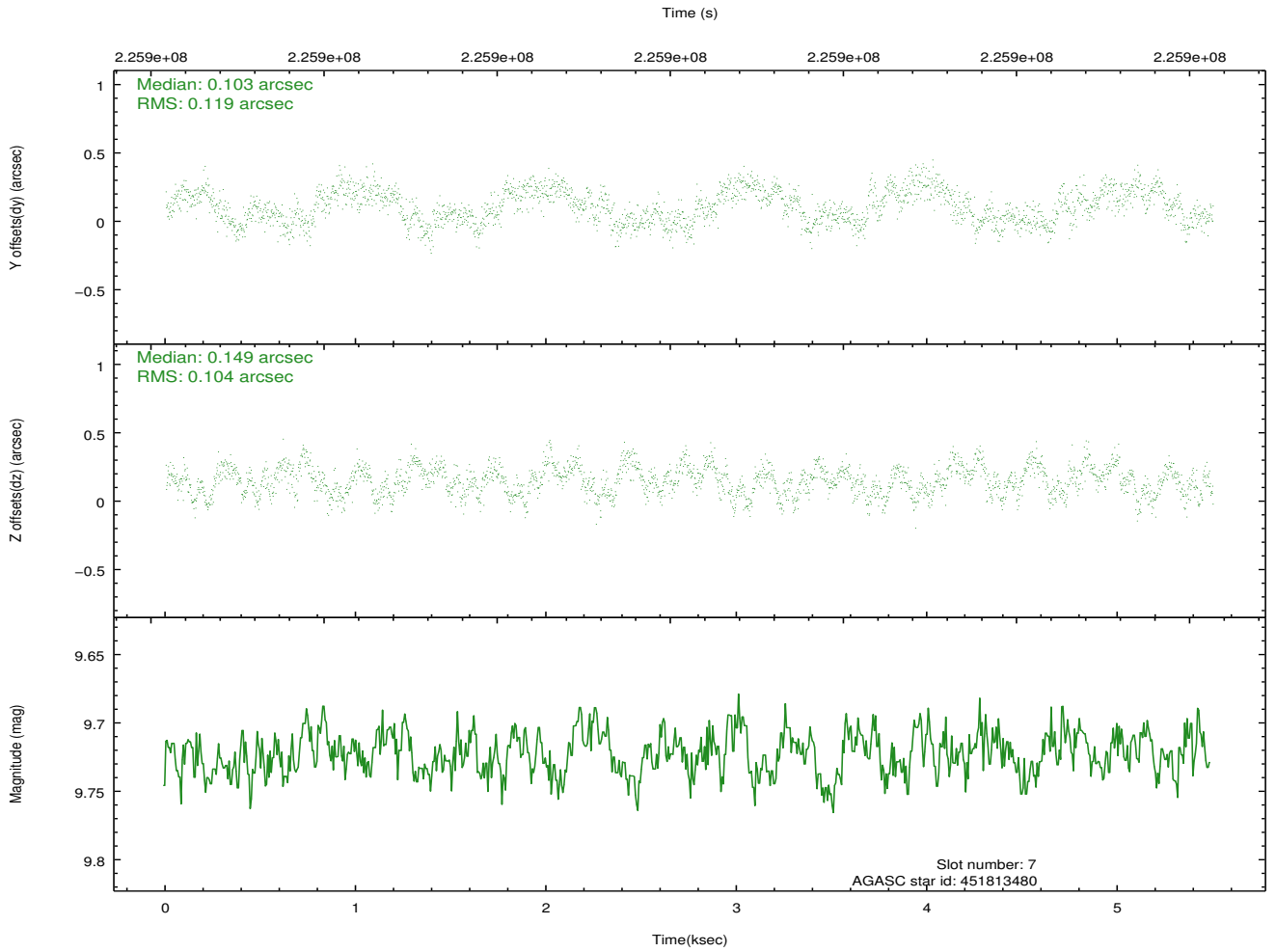
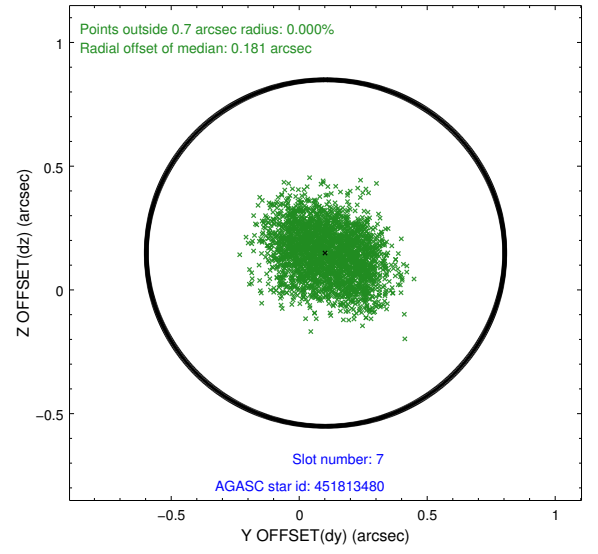
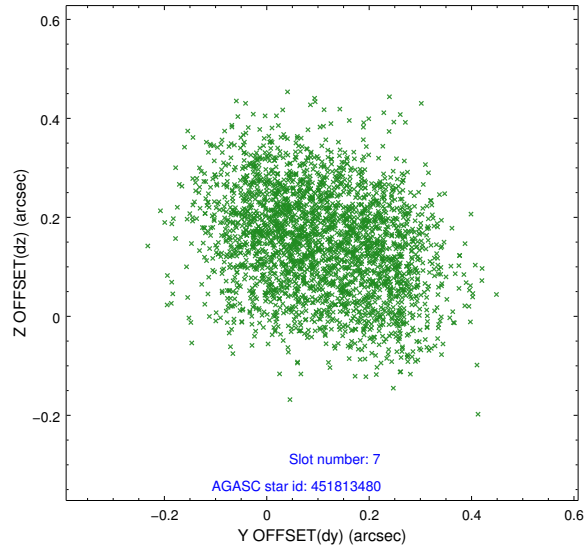
2.4.3 Slot 5



2.4.4 Slot 6

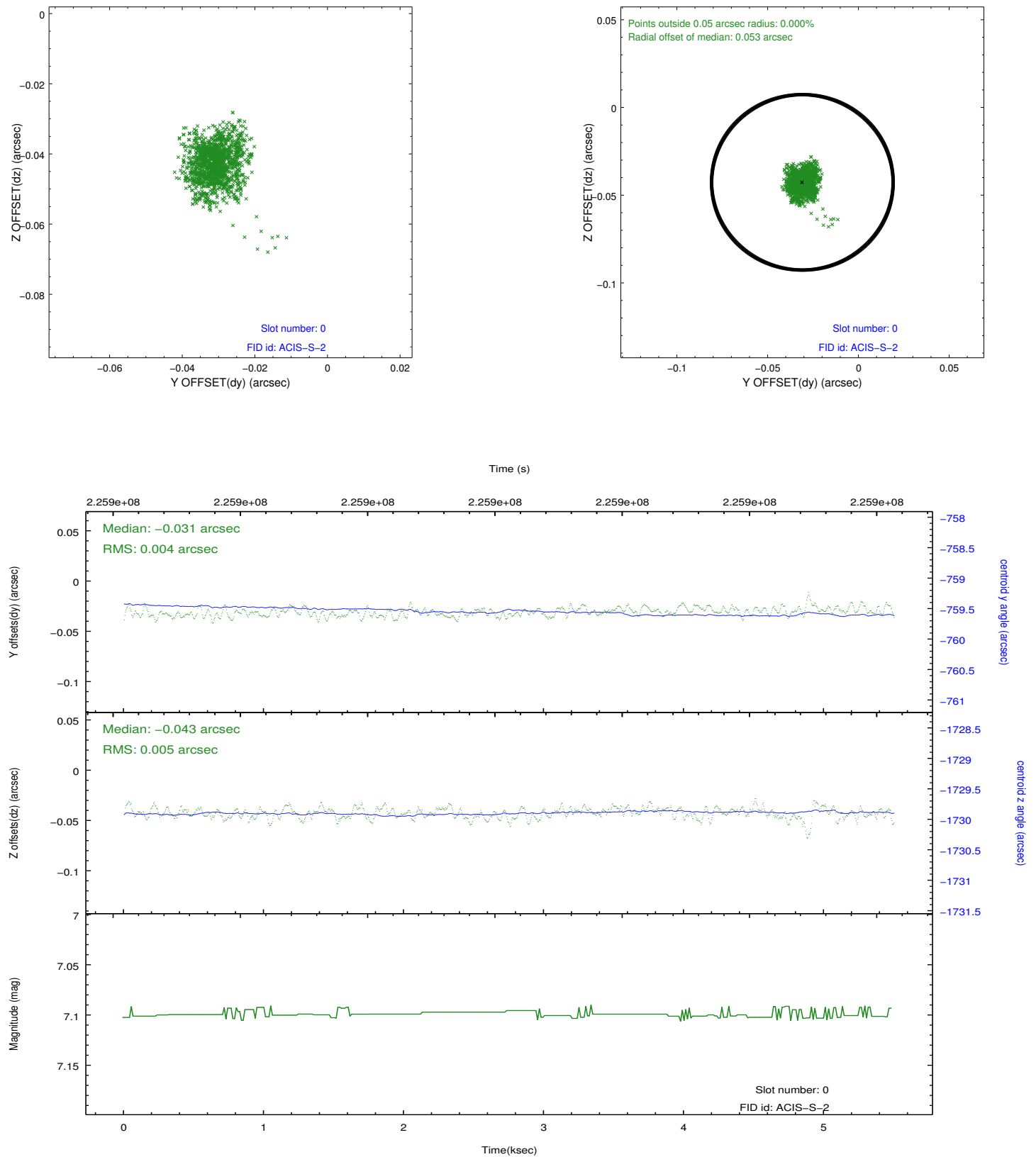


2.4.5 Slot 7

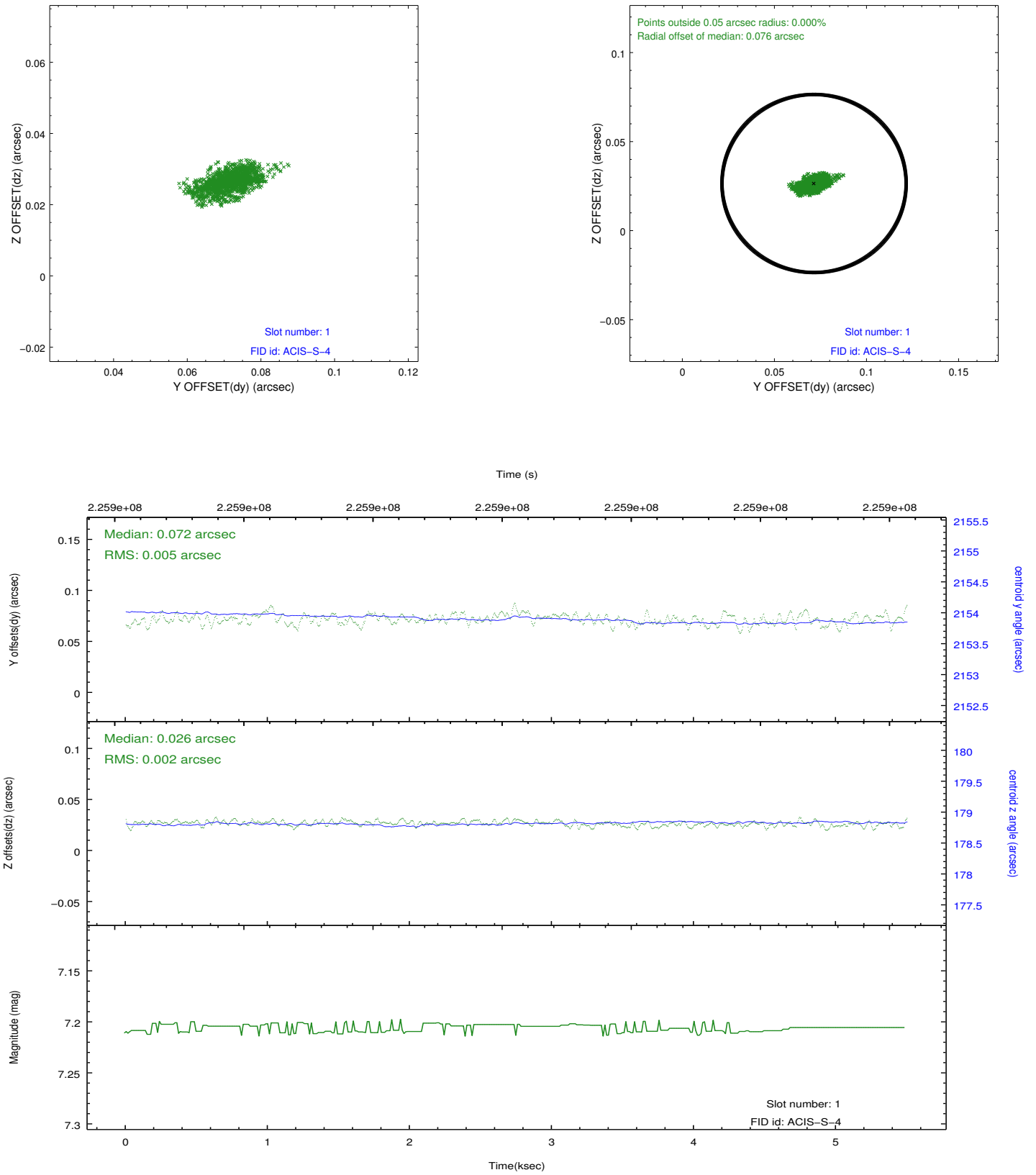


2.5 FID Slots

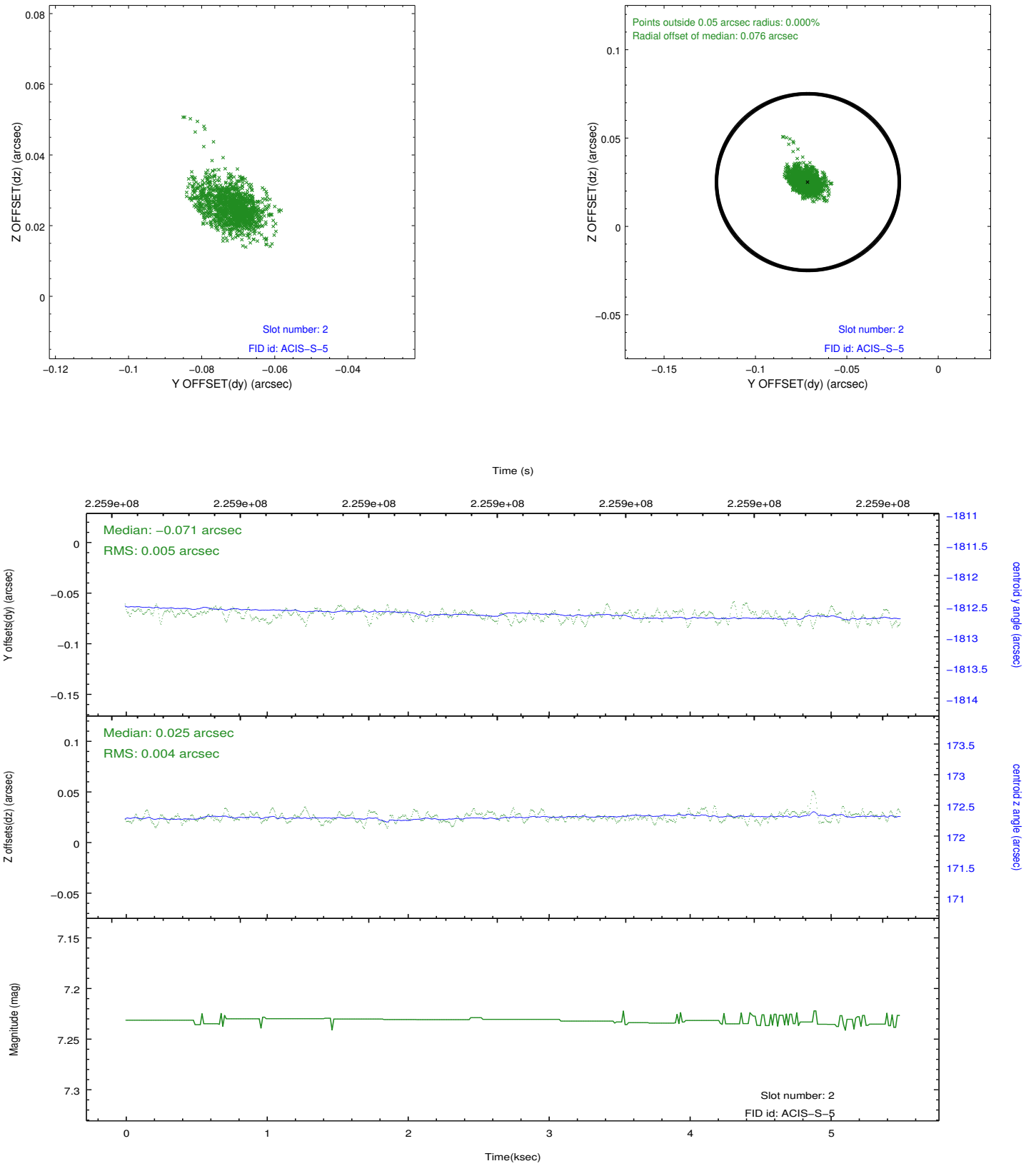
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

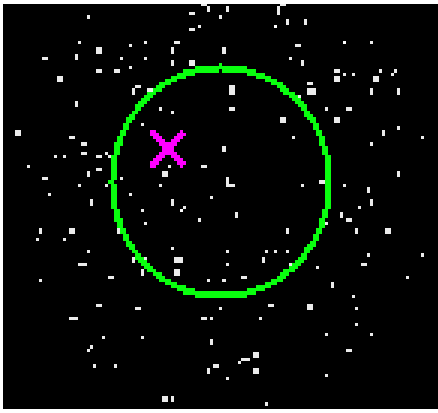


3 Gratings

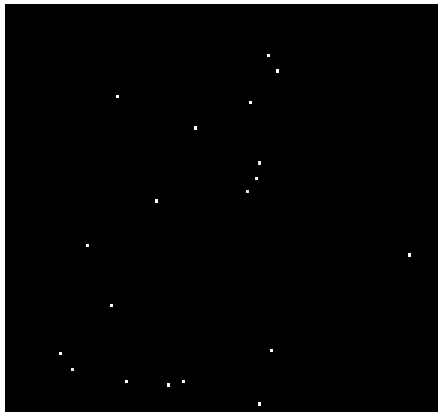
3.1 HEG Arm



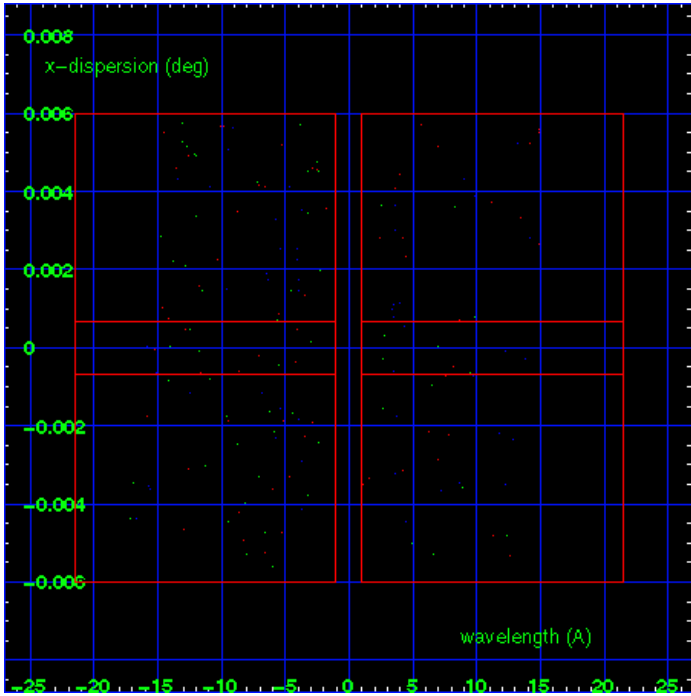
HEG Order Sort 123



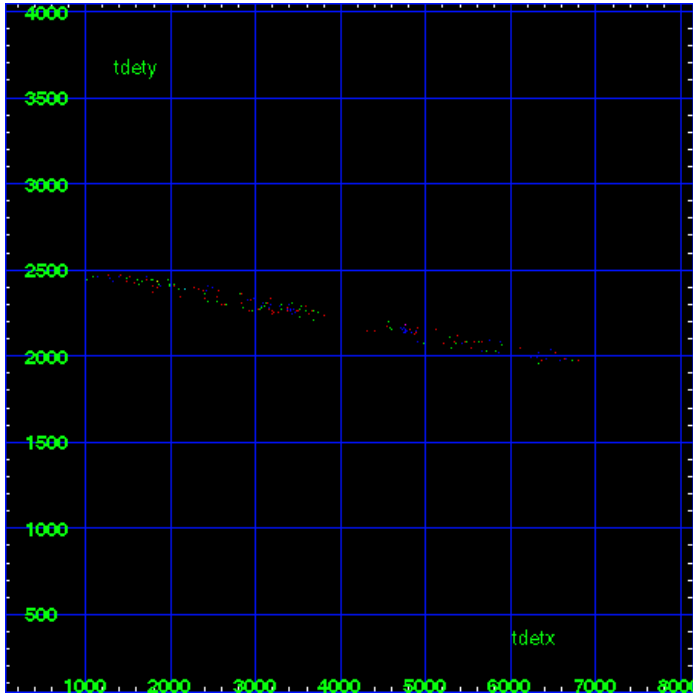
HEG Zero Order



HEG Order Sort ALL

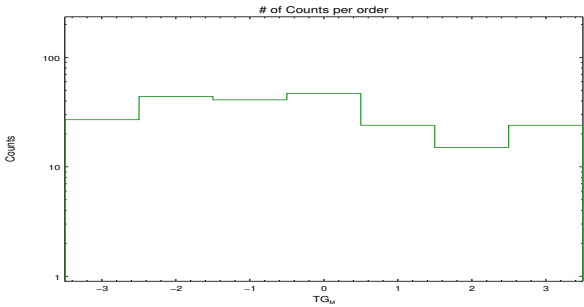


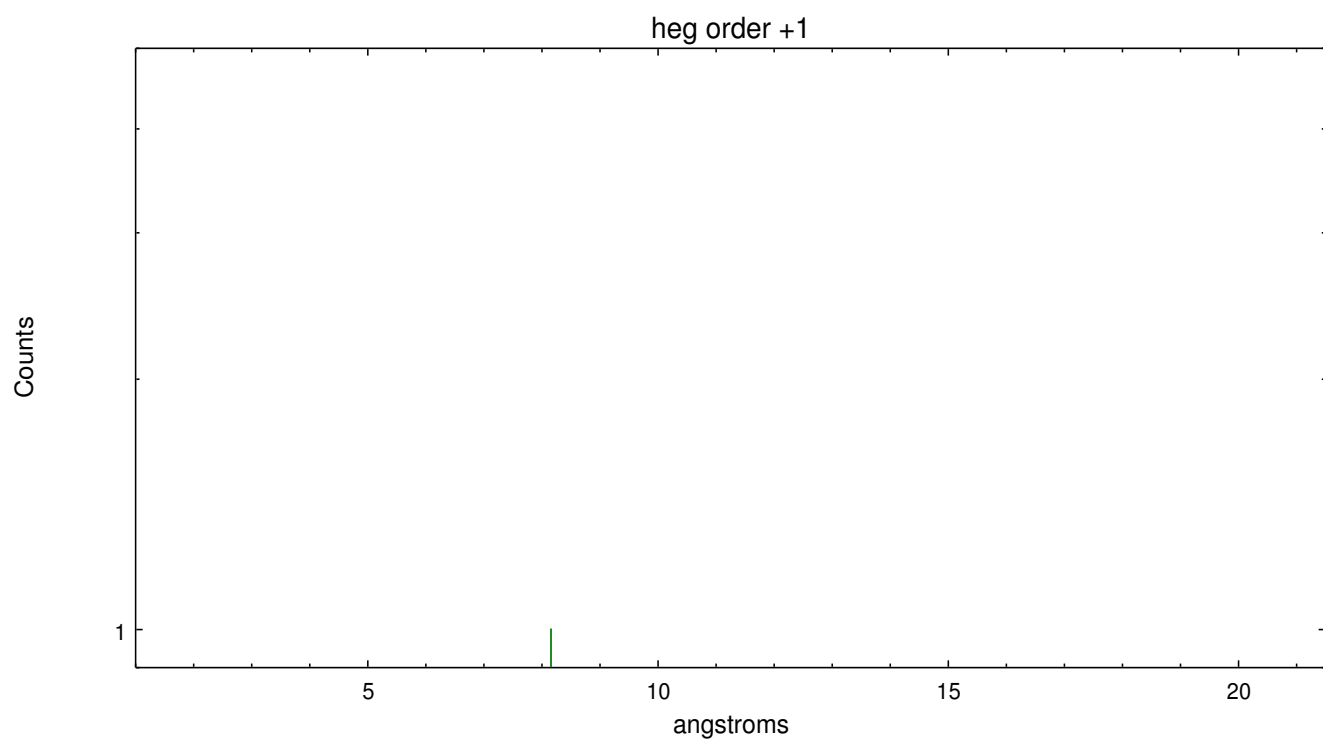
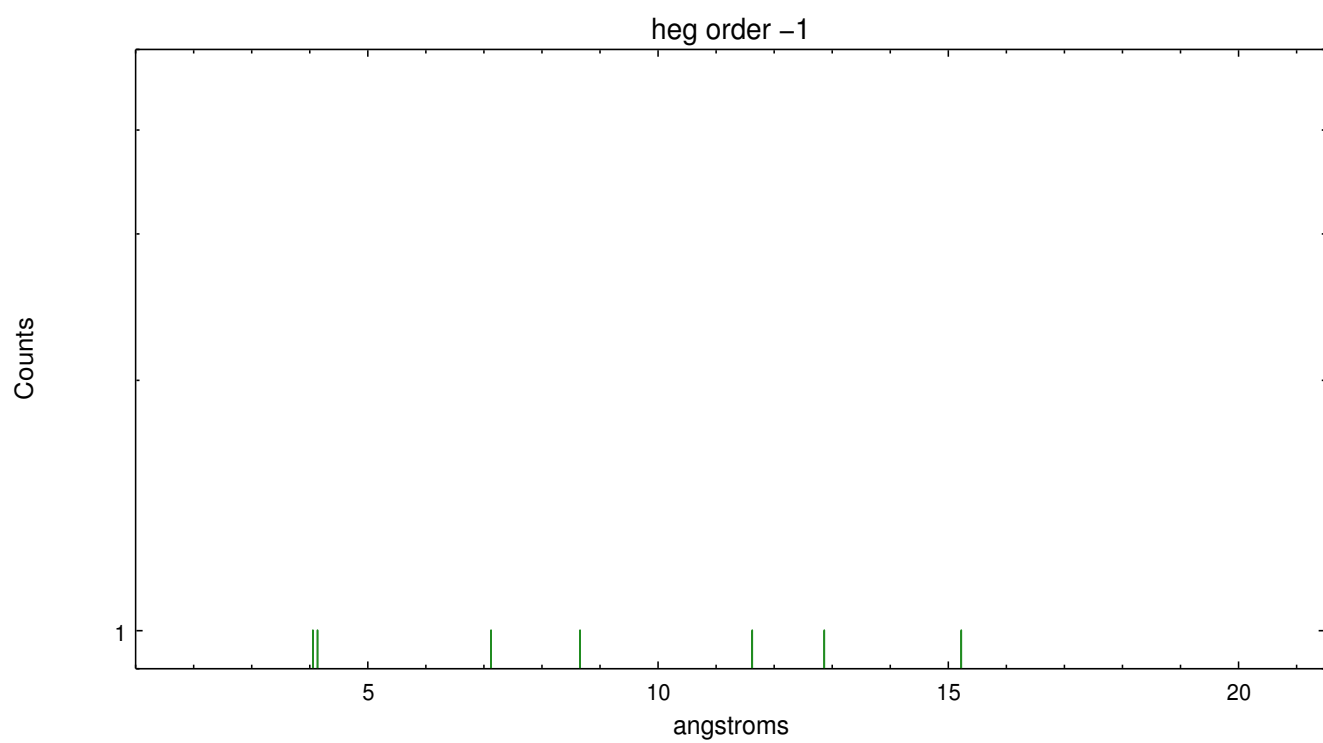
Spot Image HEG



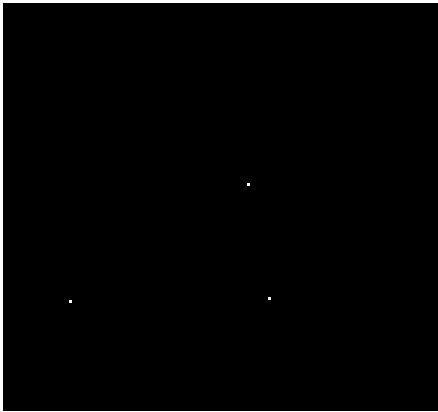
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	27	44	41	47	24	15	24

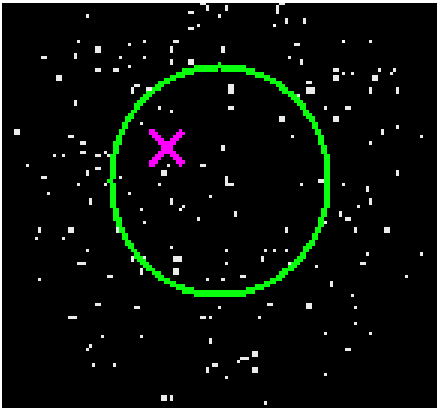




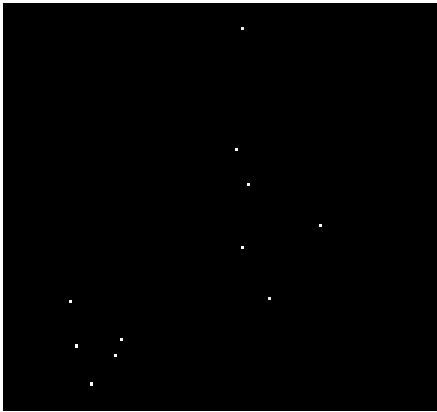
3.2 MEG Arm



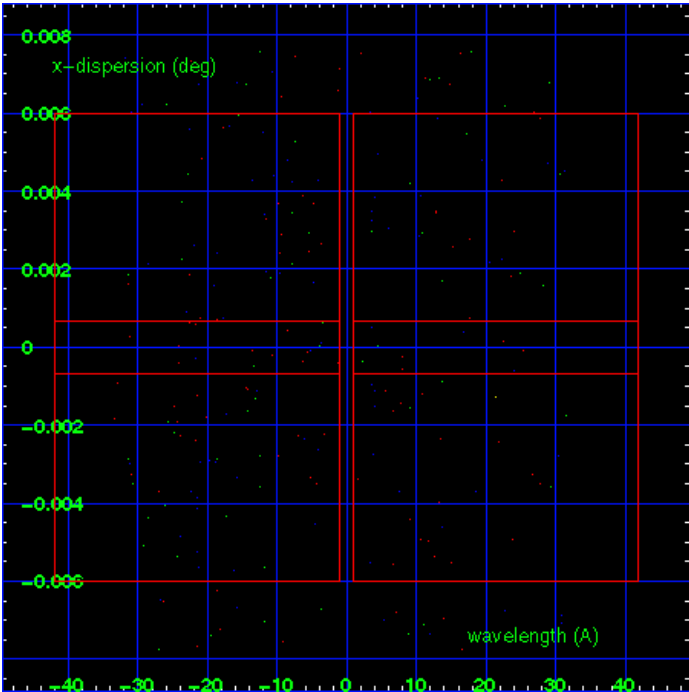
MEG Order Sort 123



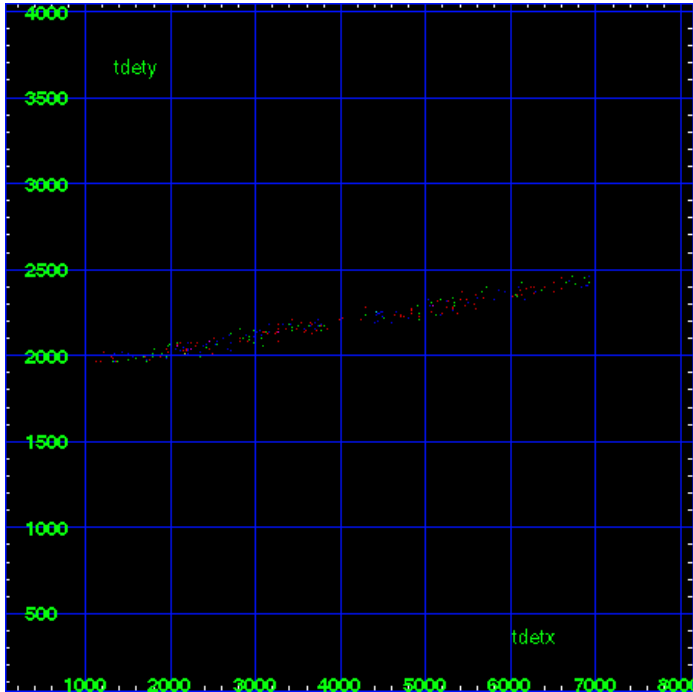
MEG Zero Order



MEG Order Sort ALL

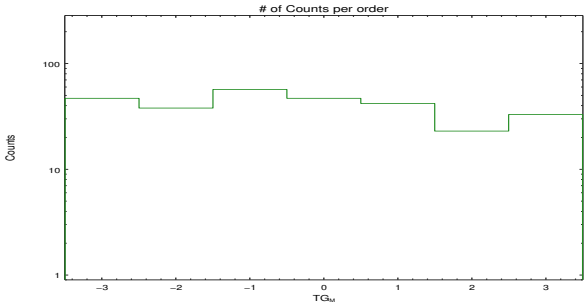


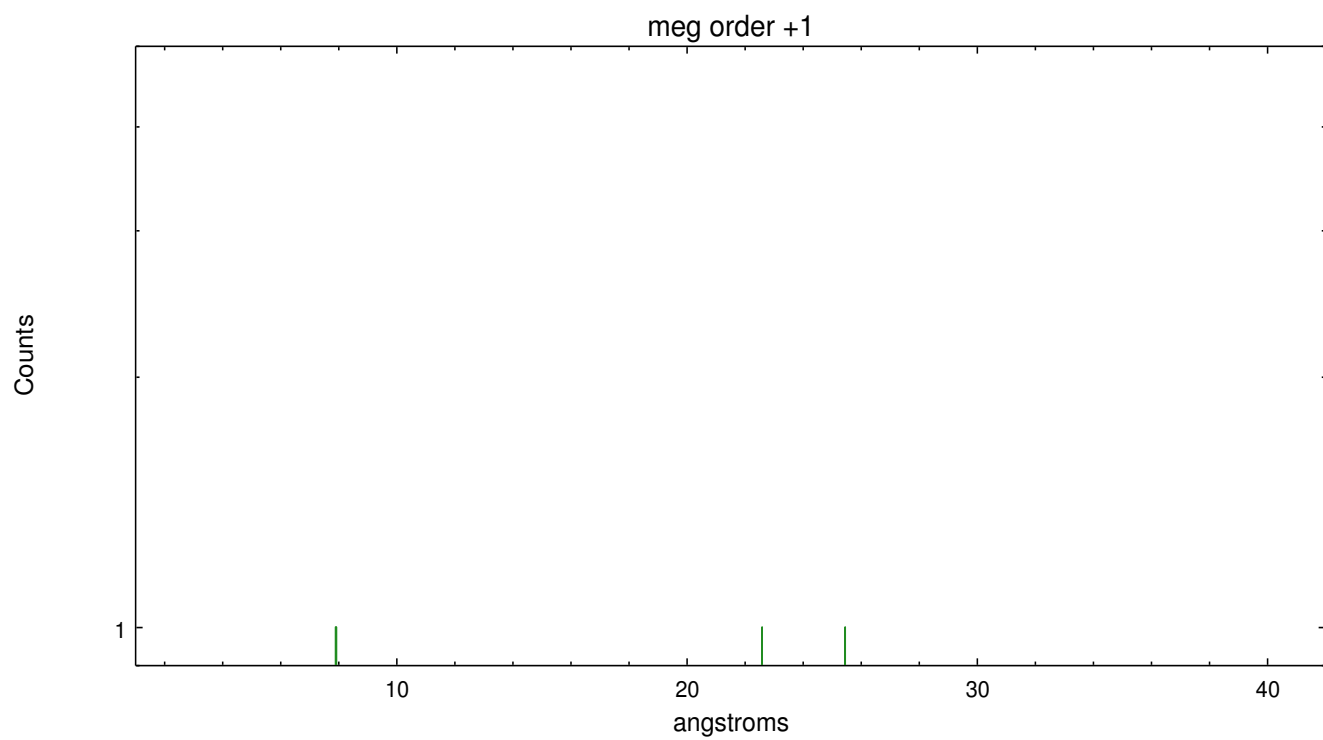
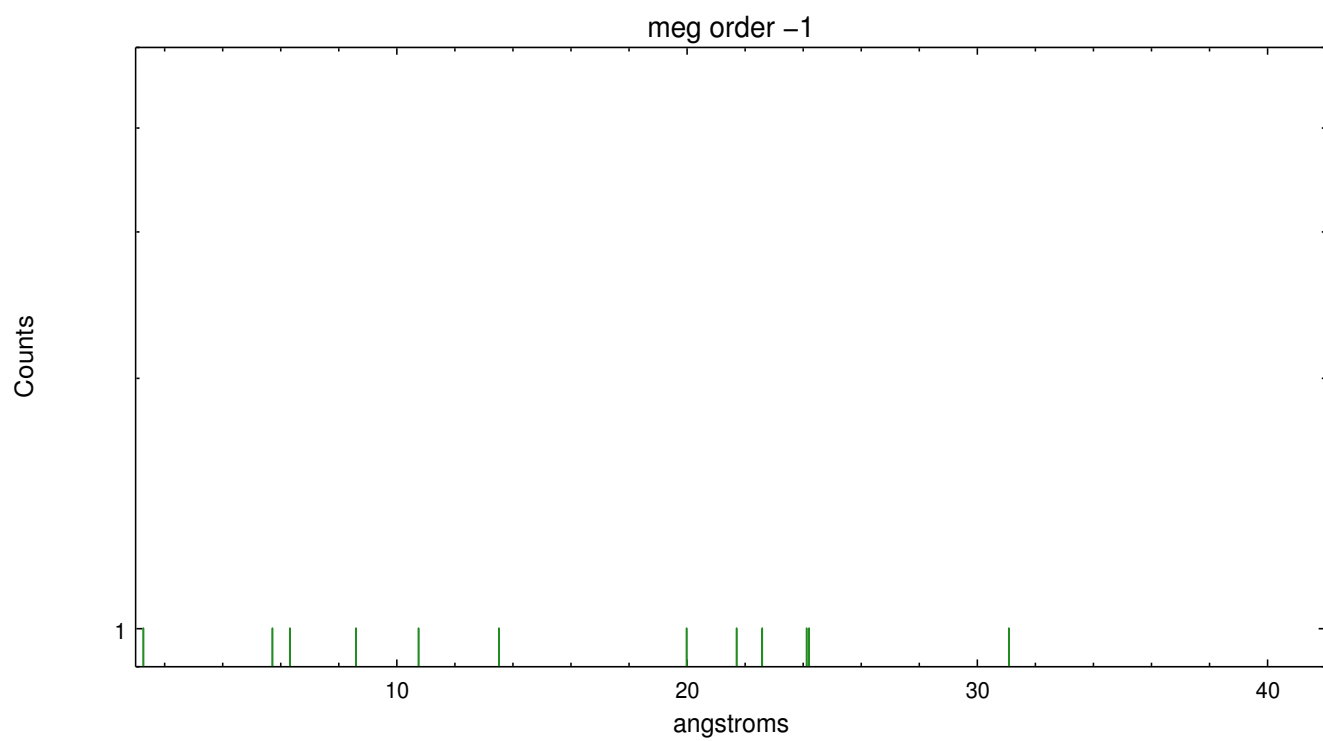
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	47	38	57	47	42	23	33





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.094

A.2 Comments

Standard software processing technique using the tool tgdetect failed to determine an accurate position for the zeroth order for this observation. No source was found. The processing software defaulted to the coordinates supplied by the user for the position of the zeroth order for the grating spectral extraction. No meaningful spectral data.