

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 6248 - L2 Version 2
Chandra X-Ray Center

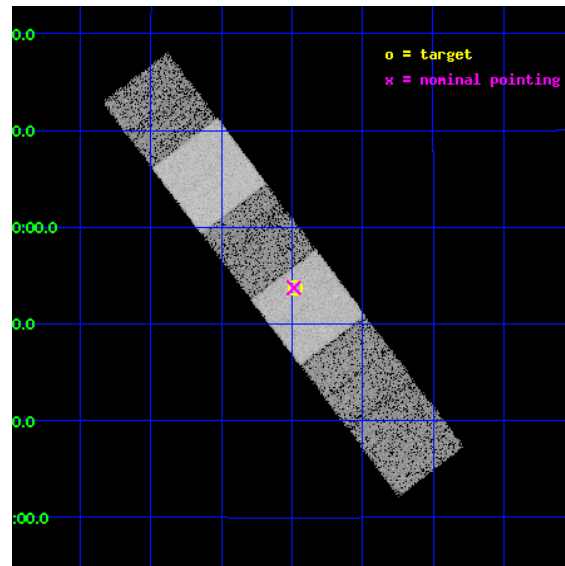
L2 Processing Date : Mar 20 2012

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1 Front

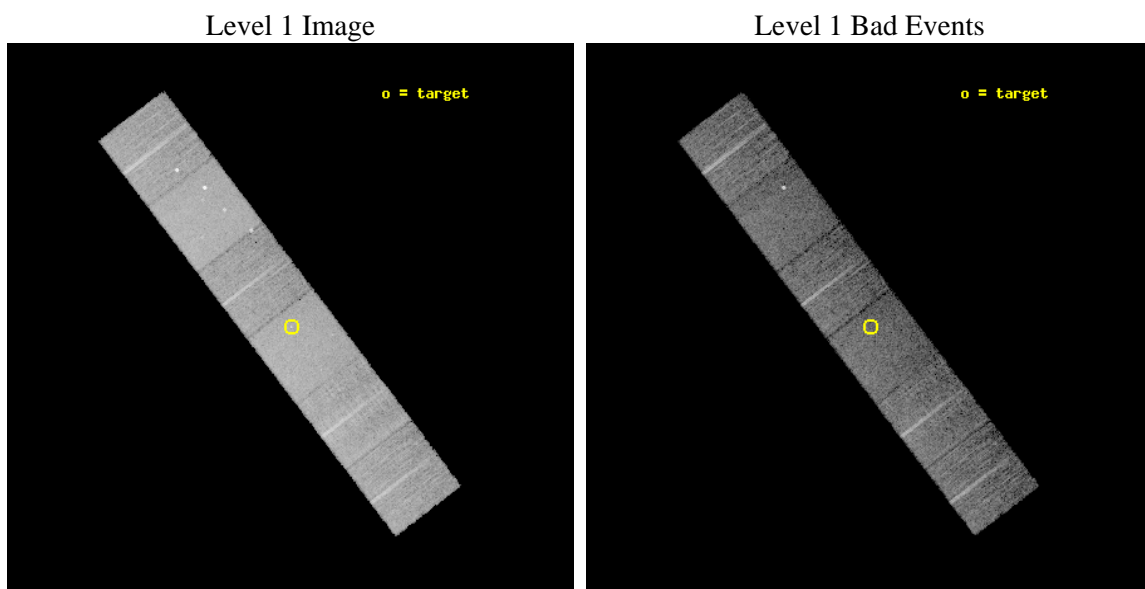
seq_num	200335	Sequence number
obs_id	6248	Observation id
title	A Chandra HETGS Survey of O-Stars	Proposal title
observer	DR. Wayne Waldron	Principal investigator
object	15 Mon	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	100.244583	Observer's specified target RA [deg]
dec_targ	9.89575	Observer's specified target Dec [deg]
ra_nom	100.24665211888	Nominal RA [deg]
dec_nom	9.8957448625643	Nominal Dec [deg]
roll_nom	52.705959515454	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7711.9999712706	Sum of GTIs [s]
livetime	7614.3459840255	Livetime [s]
ontime4	7711.9999712706	Sum of GTIs [s]
ontime5	7711.9999712706	Sum of GTIs [s]
ontime6	7711.9999712706	Sum of GTIs [s]
ontime7	7711.9999712706	Sum of GTIs [s]
ontime8	7711.9999712706	Sum of GTIs [s]
ontime9	7711.9999712706	Sum of GTIs [s]
l2events	110093	Number of level 2 events



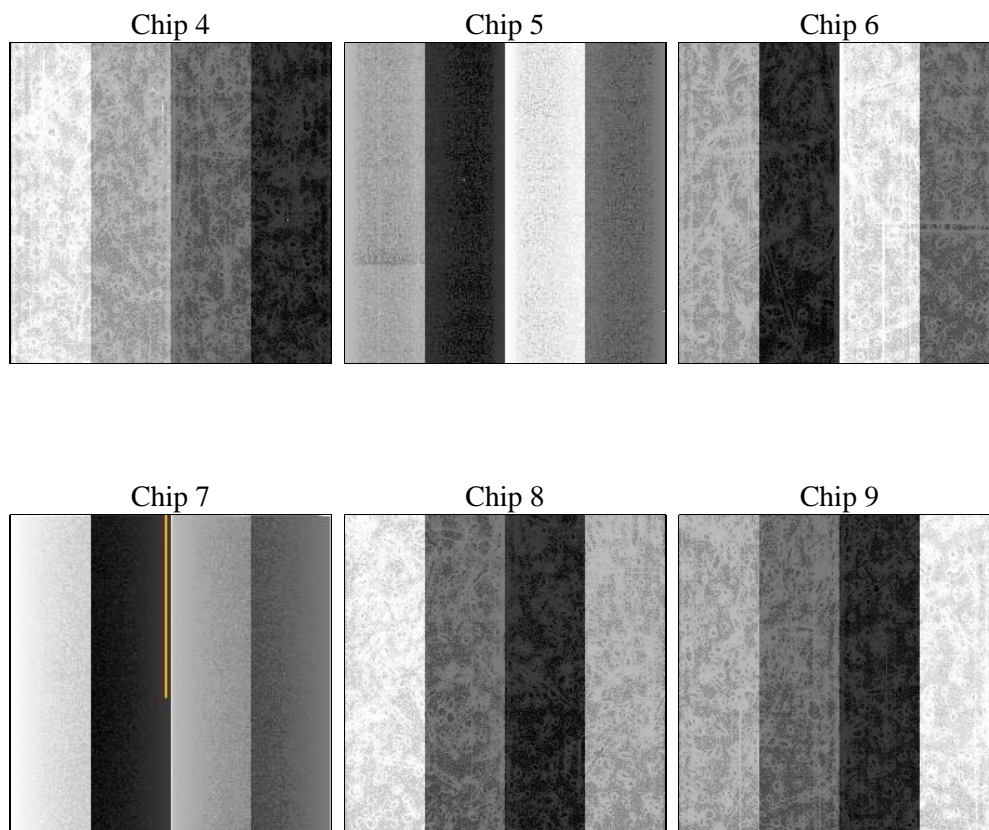
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7600.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	7711.9999712706	Sum of GTIs [s]
caldsver	4.4.8	 	ontime4	7711.9999712706	Sum of GTIs [s]
date	2012-03-20T02:01:45	Date and time of file creation	ontime5	7711.9999712706	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	7711.9999712706	Sum of GTIs [s]
			ontime7	7711.9999712706	Sum of GTIs [s]
			ontime8	7711.9999712706	Sum of GTIs [s]
			ontime9	7711.9999712706	Sum of GTIs [s]
			l1events	481196	Number of level 1 events

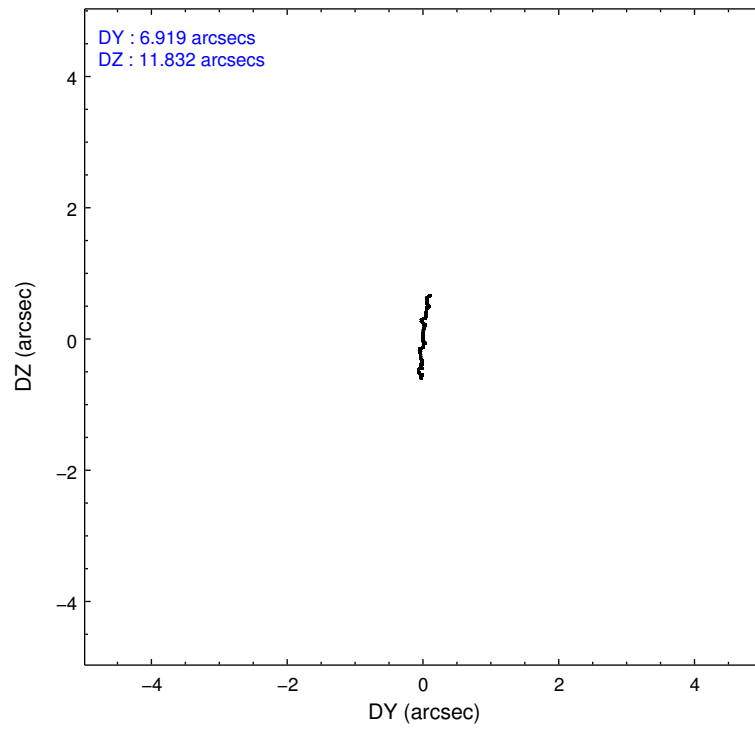
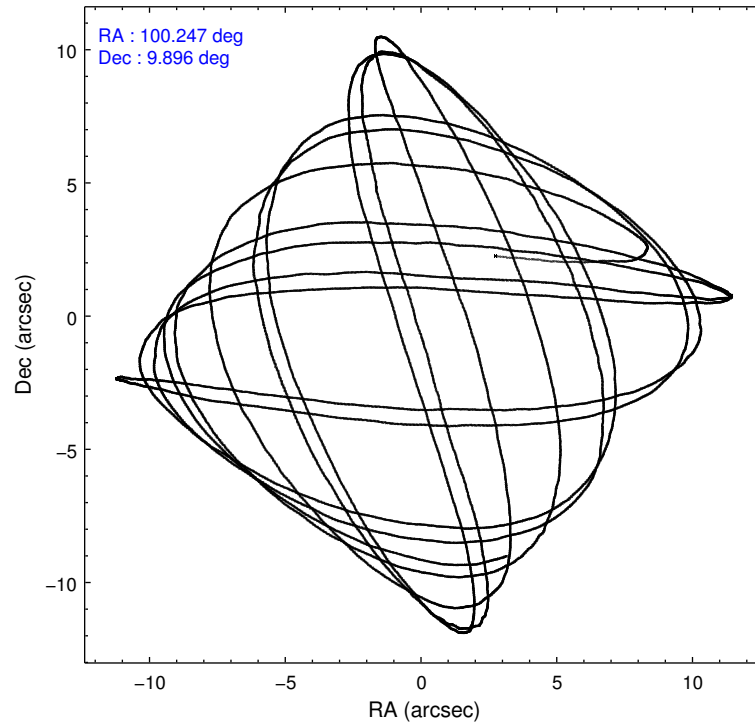
2.1.4 Events

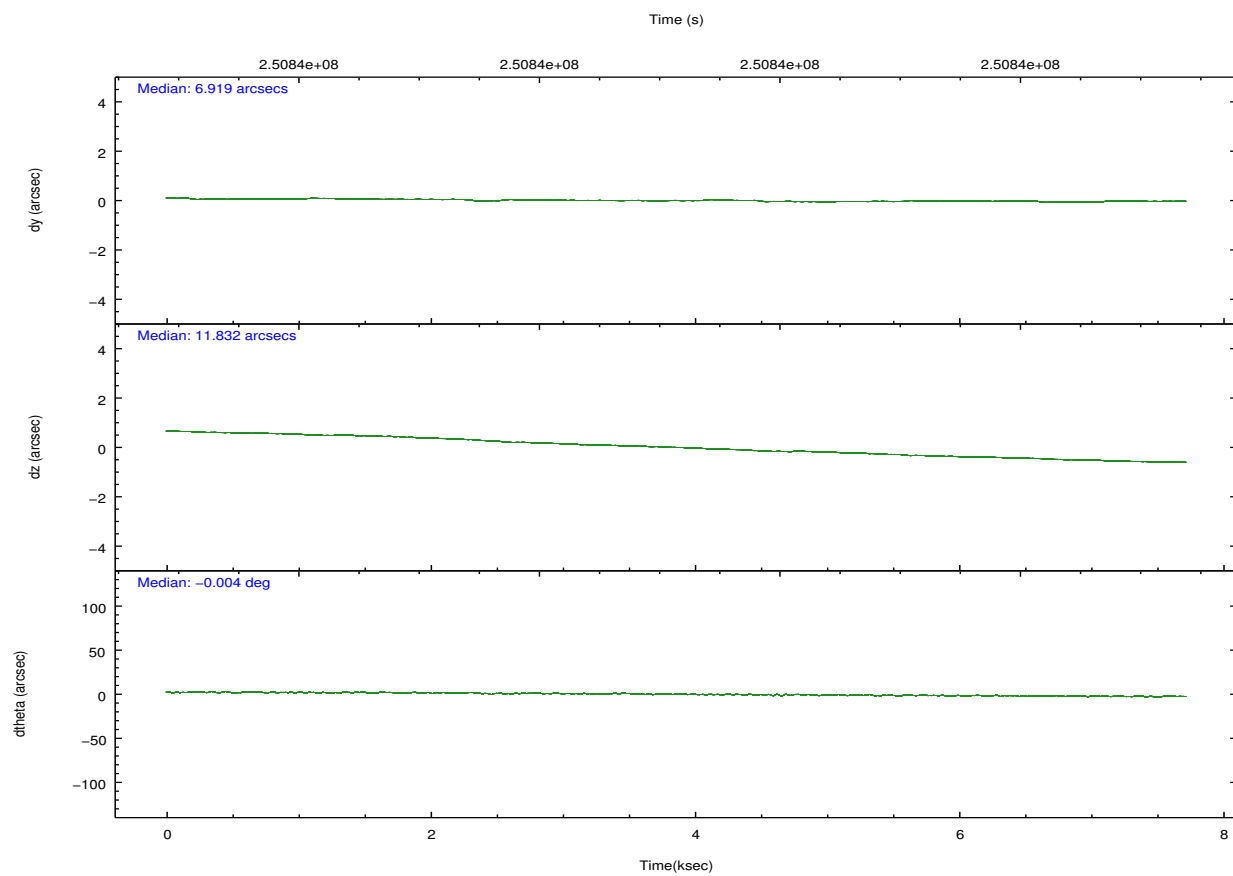
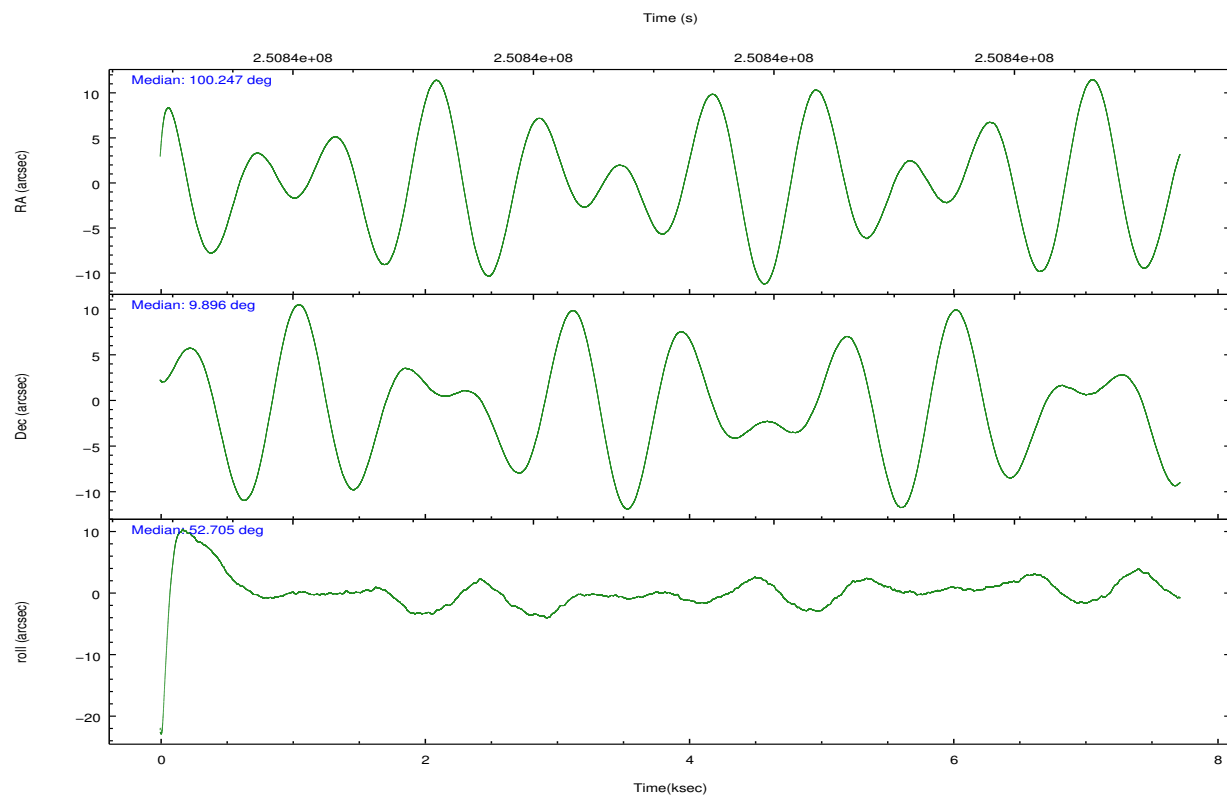
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	74666	99828	64621	90313	84385	67383	grade 0 events	5873	4499	3781	3710	6454	4031
rejected events	63991	55142	55831	53209	65699	58281		7%	4%	5%	4%	7%	5%
rejected %	85%	55%	86%	58%	77%	86%	grade 1 events	87	415	43	90	63	45
								0%	0%	0%	0%	0%	0%
							grade 2 events	1820	14147	1864	7701	4200	1803
								2%	14%	2%	8%	4%	2%
							grade 3 events	897	1877	818	3181	1960	847
								1%	1%	1%	3%	2%	1%
							grade 4 events	905	1704	790	3319	1778	799
								1%	1%	1%	3%	2%	1%
							grade 5 events	2911	7590	3049	8377	4118	3319
								3%	7%	4%	9%	4%	4%
							grade 6 events	1533	23862	1802	20351	4971	1925
								2%	23%	2%	22%	5%	2%
							grade 7 events	60640	45734	52474	43584	60841	54614
								81%	45%	81%	48%	72%	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	100.243566	100.2466521188778	Subarray requested	NONE	NONE
[deg] Pointing Dec	9.868673	9.895744862564278	Alternating exposures requested	N	N
[deg] Pointing Roll	52.549906	52.70595951545412	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	250835392.184000	250834087.75315			
Observation start date	2005-12-13T04:28:48	2005-12-13T04:08:07			
[s] Observation end time (MET)	250842992.184000	250843918.52861			
Observation end date	2005-12-13T06:35:28	2005-12-13T06:51:58			
Read mode	TIMED	TIMED			

2.3 Aspect



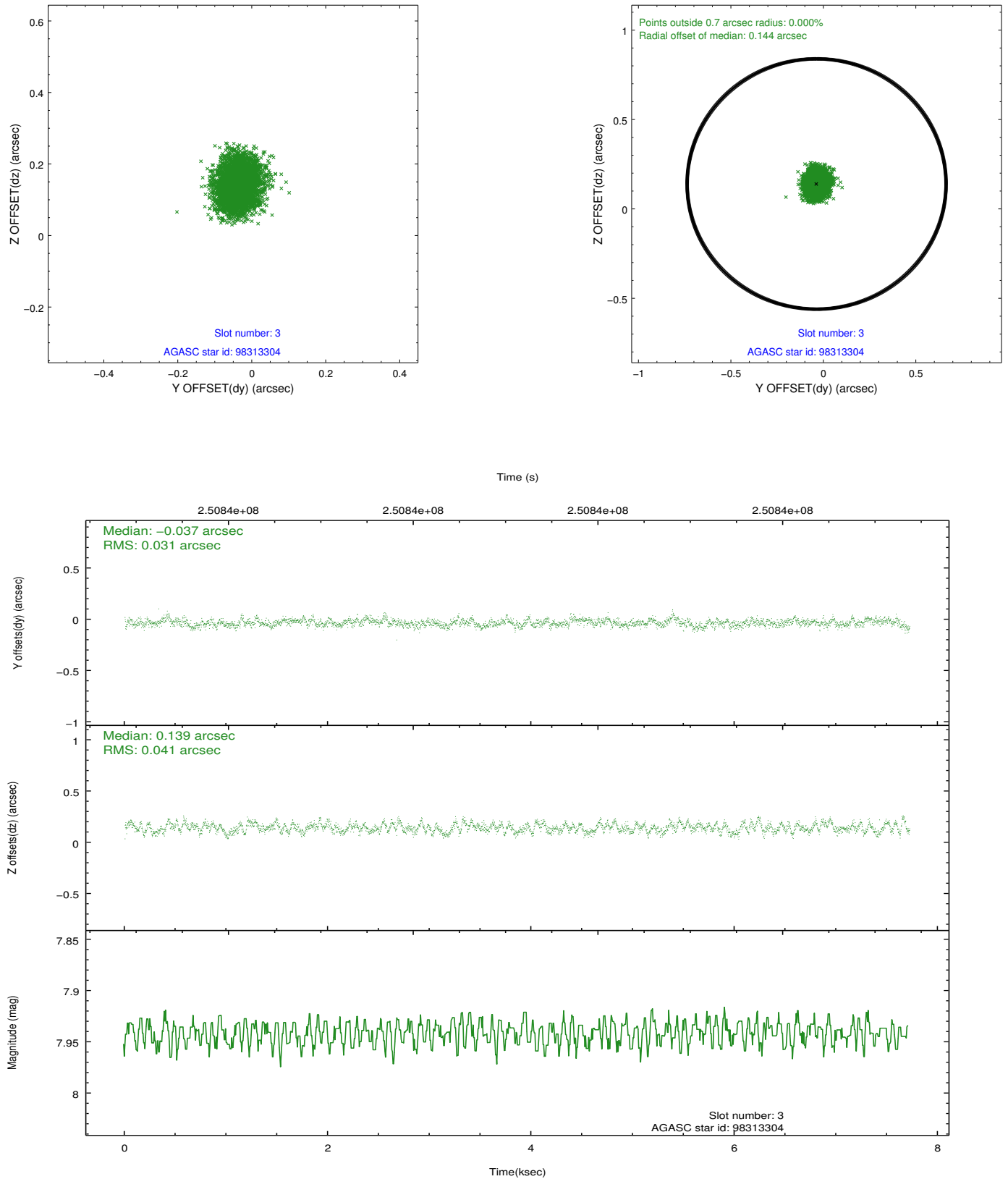


Slot Statistics

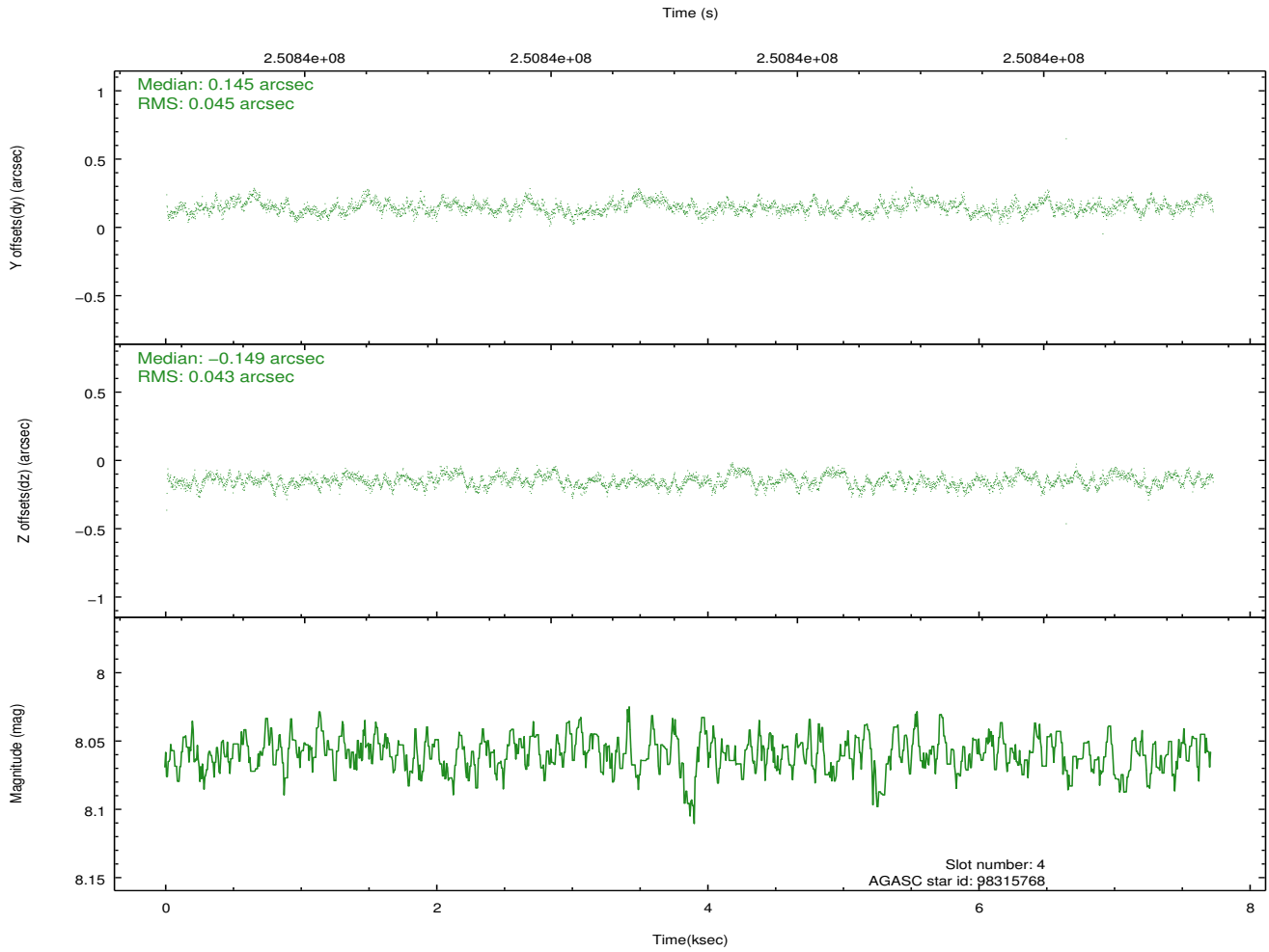
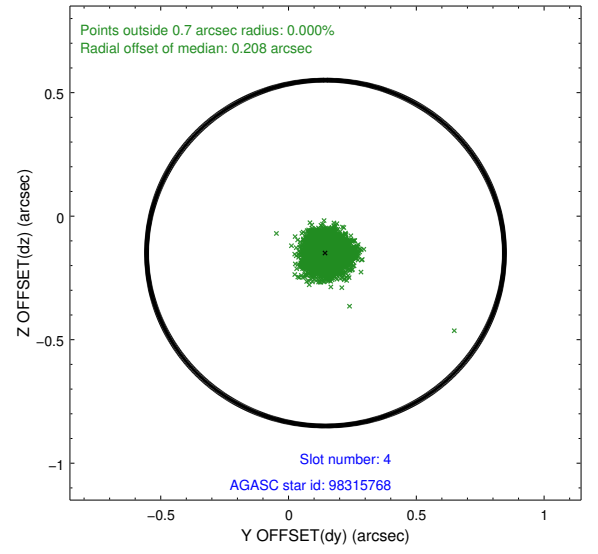
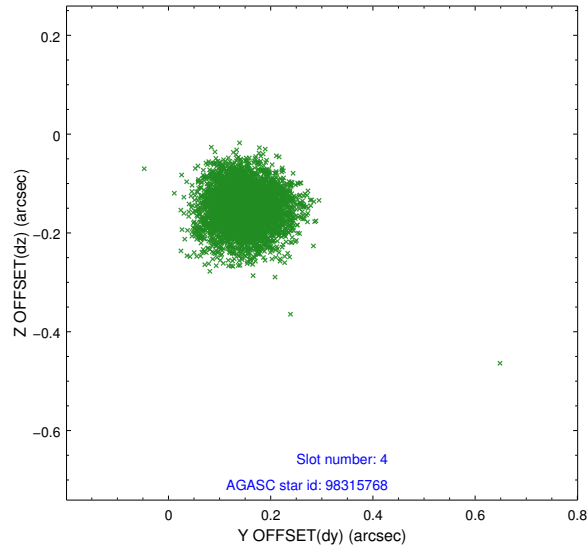
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1883	-0.035	-0.026	0.015	0.022	0.000000	0.000000	-759.70	-1733.12
1	FID	ACIS-S-4	7.20	1883	0.073	0.023	0.009	0.015	0.000000	0.000000	2153.34	174.66
2	FID	ACIS-S-5	7.23	1884	-0.070	0.010	0.014	0.021	0.000000	0.000000	-1811.65	169.15
3	GUIDE	98313304	7.94	3767	-0.037	0.139	0.055	0.088	100.155546	9.595190	-971.25	-350.53
4	GUIDE	98315768	8.06	3766	0.145	-0.149	0.067	0.104	99.897692	9.752469	-1077.75	720.02
5	GUIDE	98315960	8.75	3767	-0.068	0.036	0.067	0.110	100.661368	10.107192	1582.83	-652.65
6	GUIDE	98317704	8.42	3765	0.164	-0.063	0.051	0.085	99.789996	9.529558	-1946.71	536.50
7	GUIDE	98315224	7.88	3765	-0.203	0.039	0.056	0.091	100.672922	10.331603	2247.92	-193.07

2.4 Star Slots

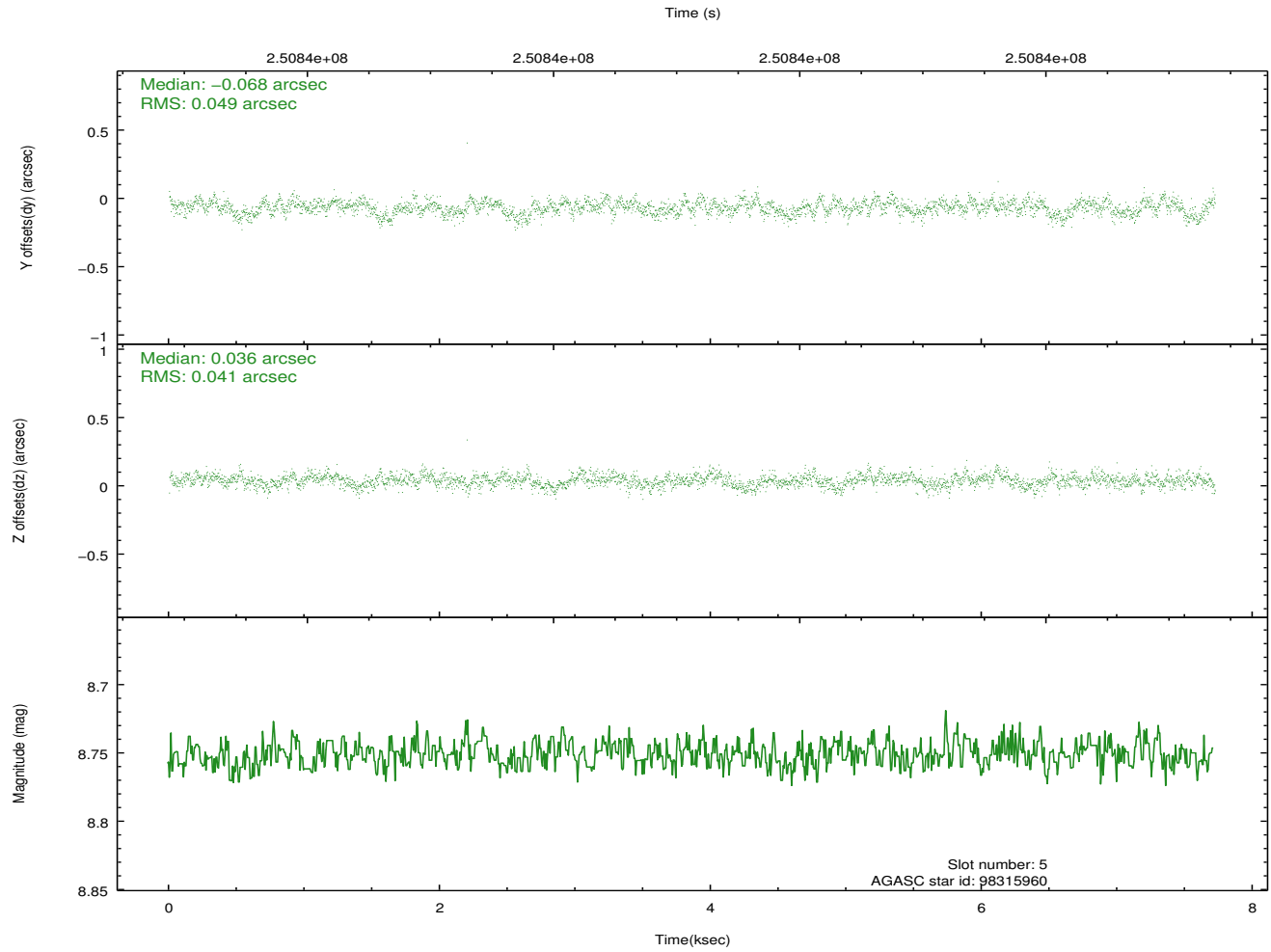
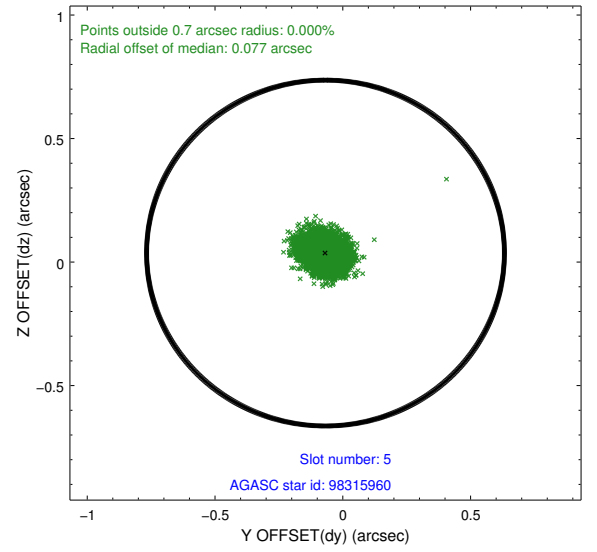
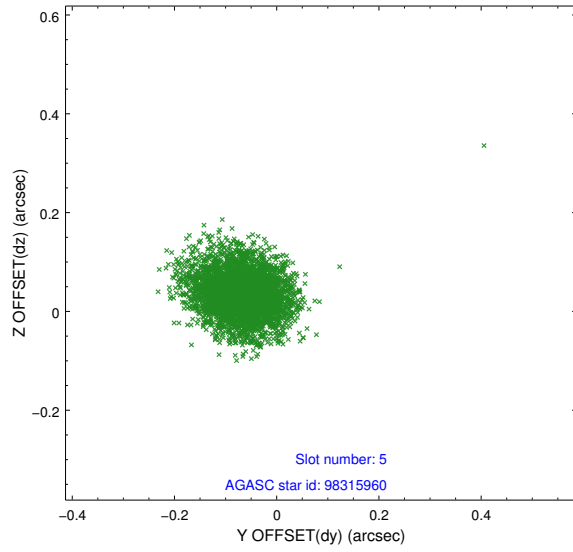
2.4.1 Slot 3



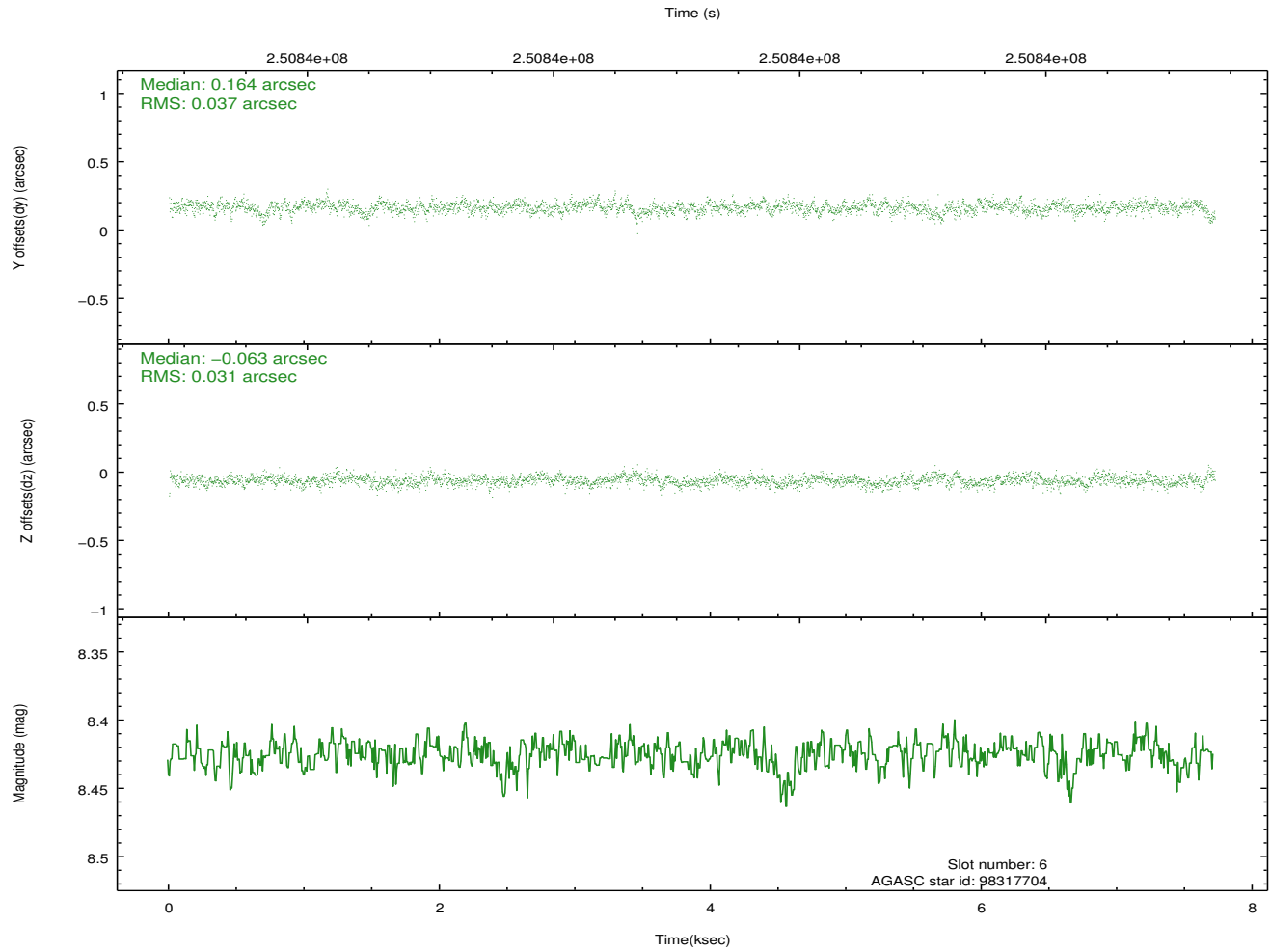
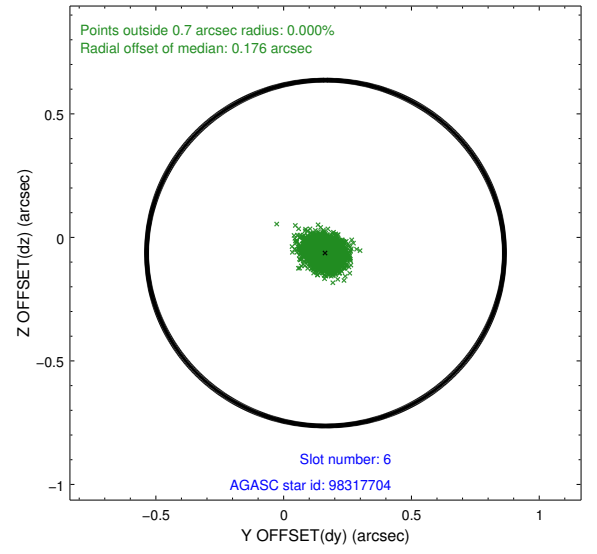
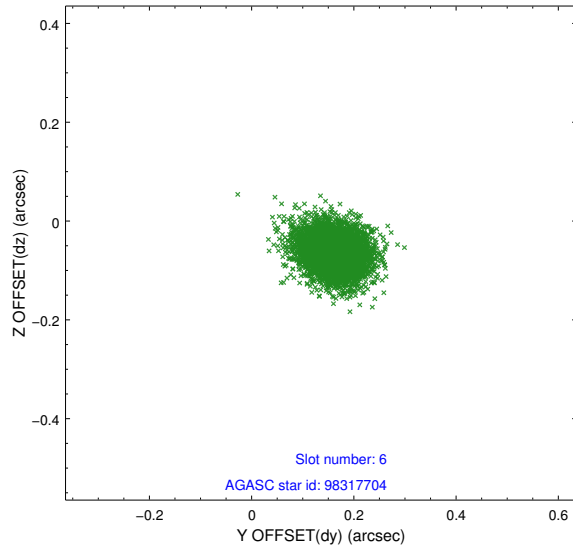
2.4.2 Slot 4



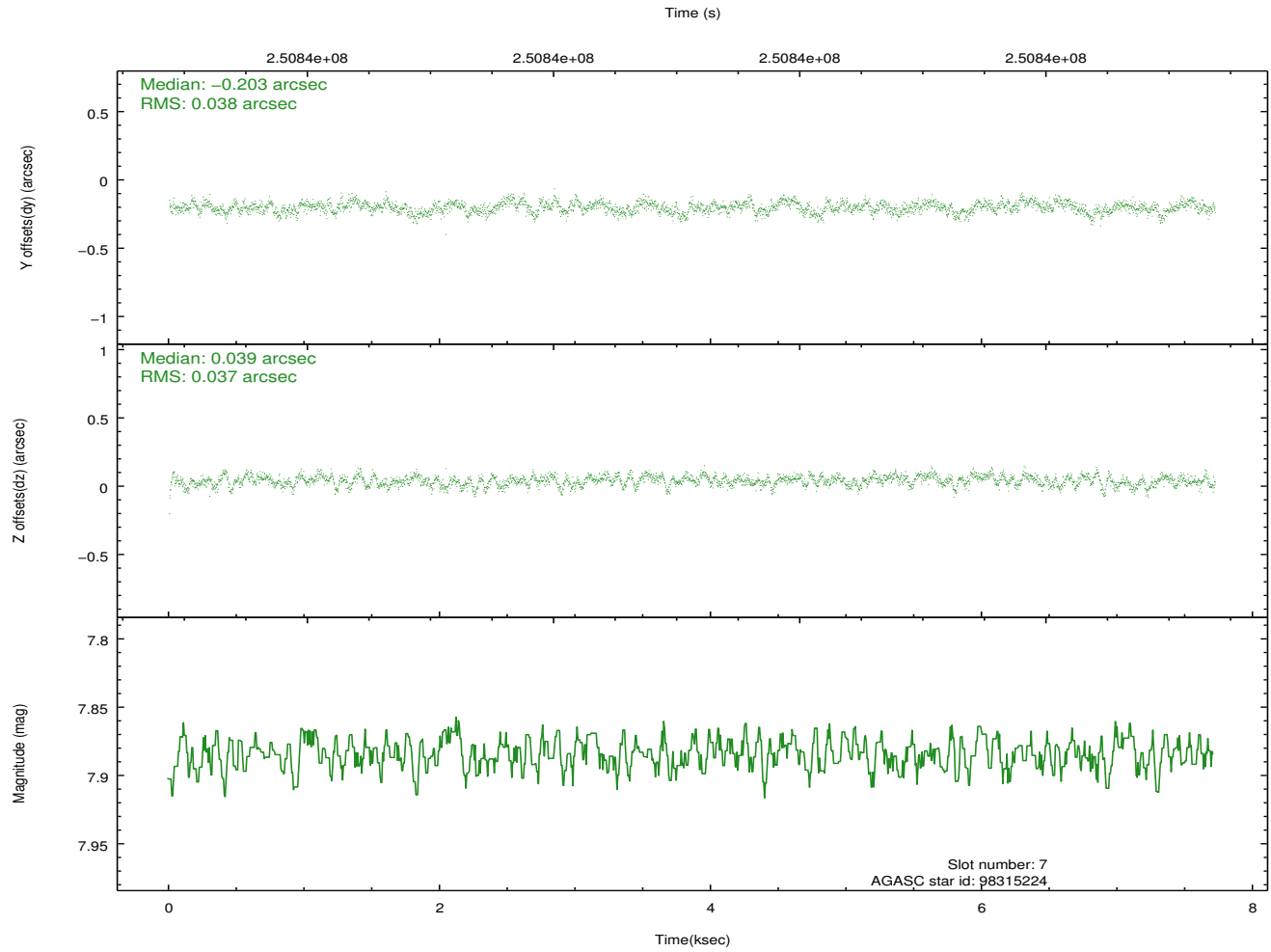
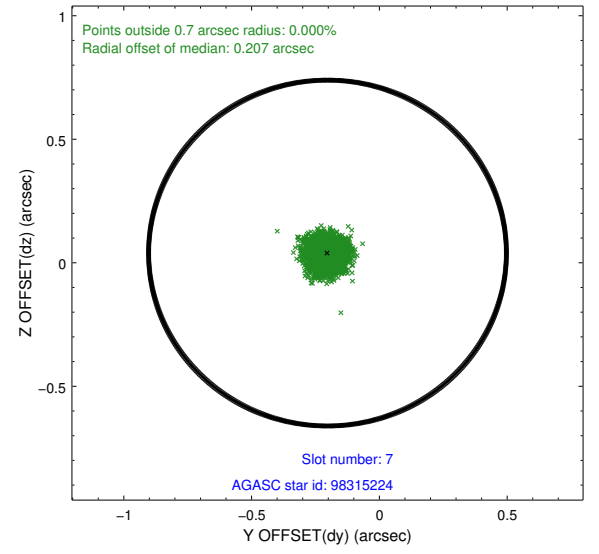
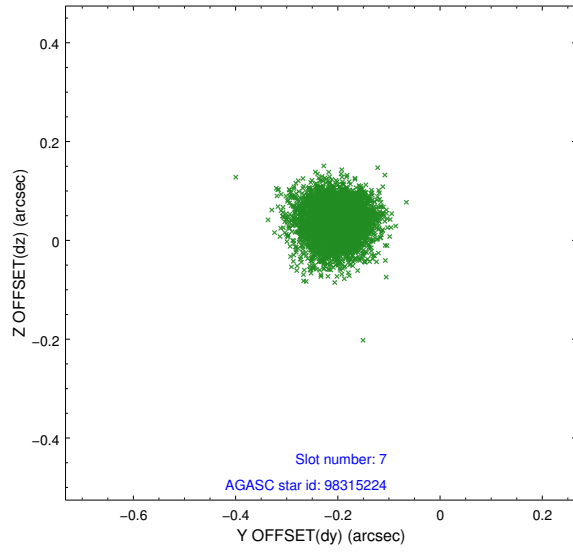
2.4.3 Slot 5



2.4.4 Slot 6

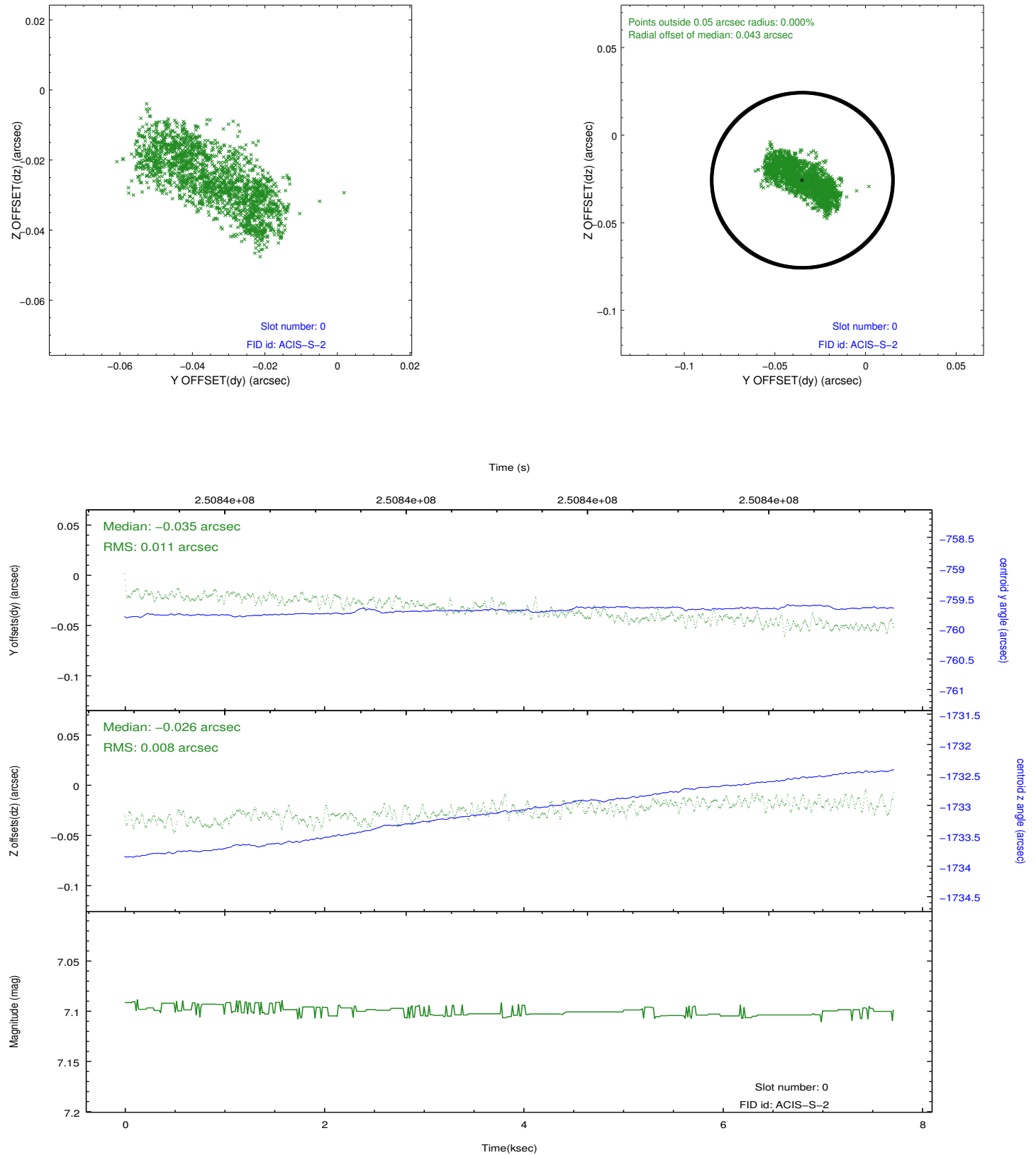


2.4.5 Slot 7

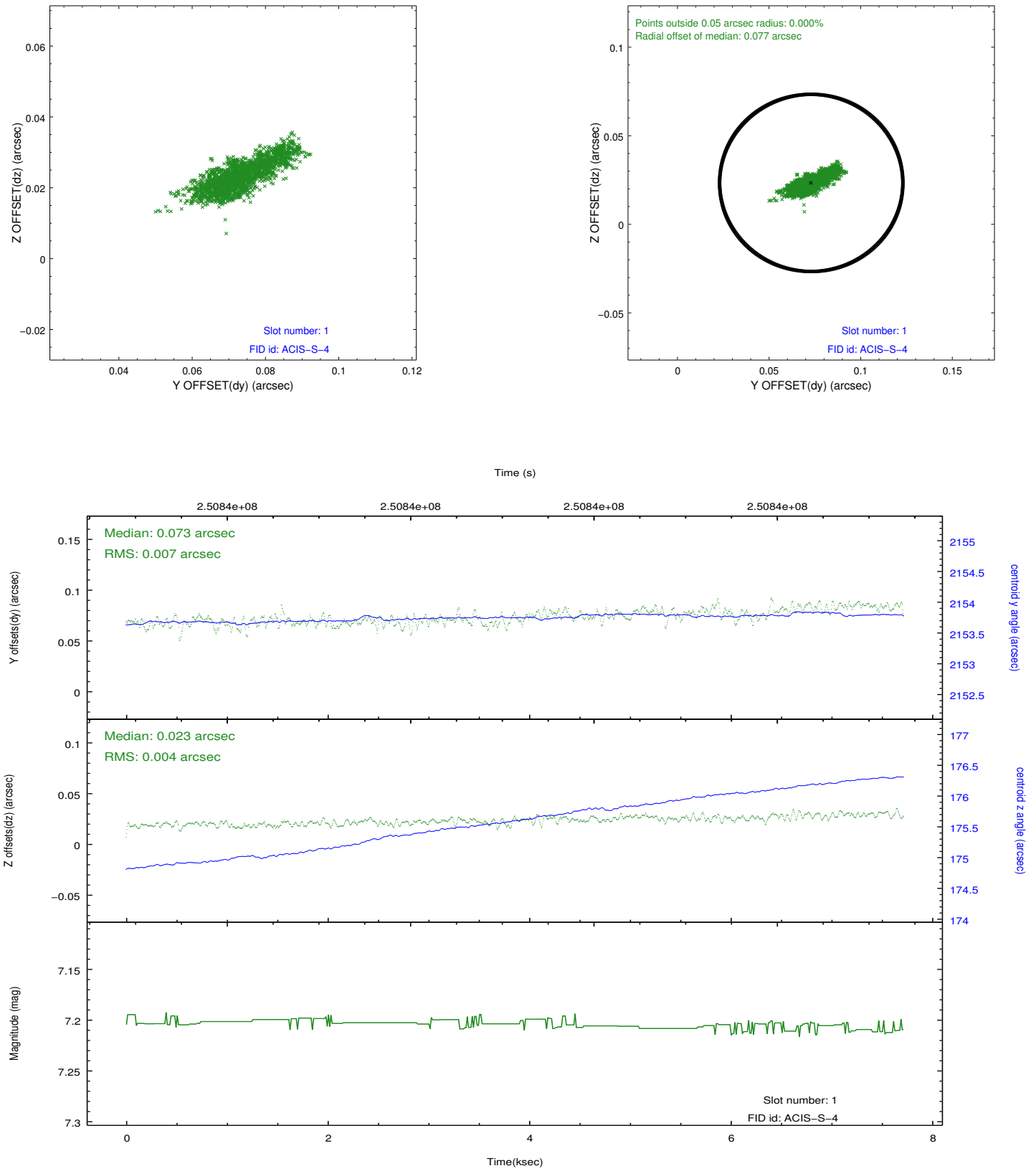


2.5 FID Slots

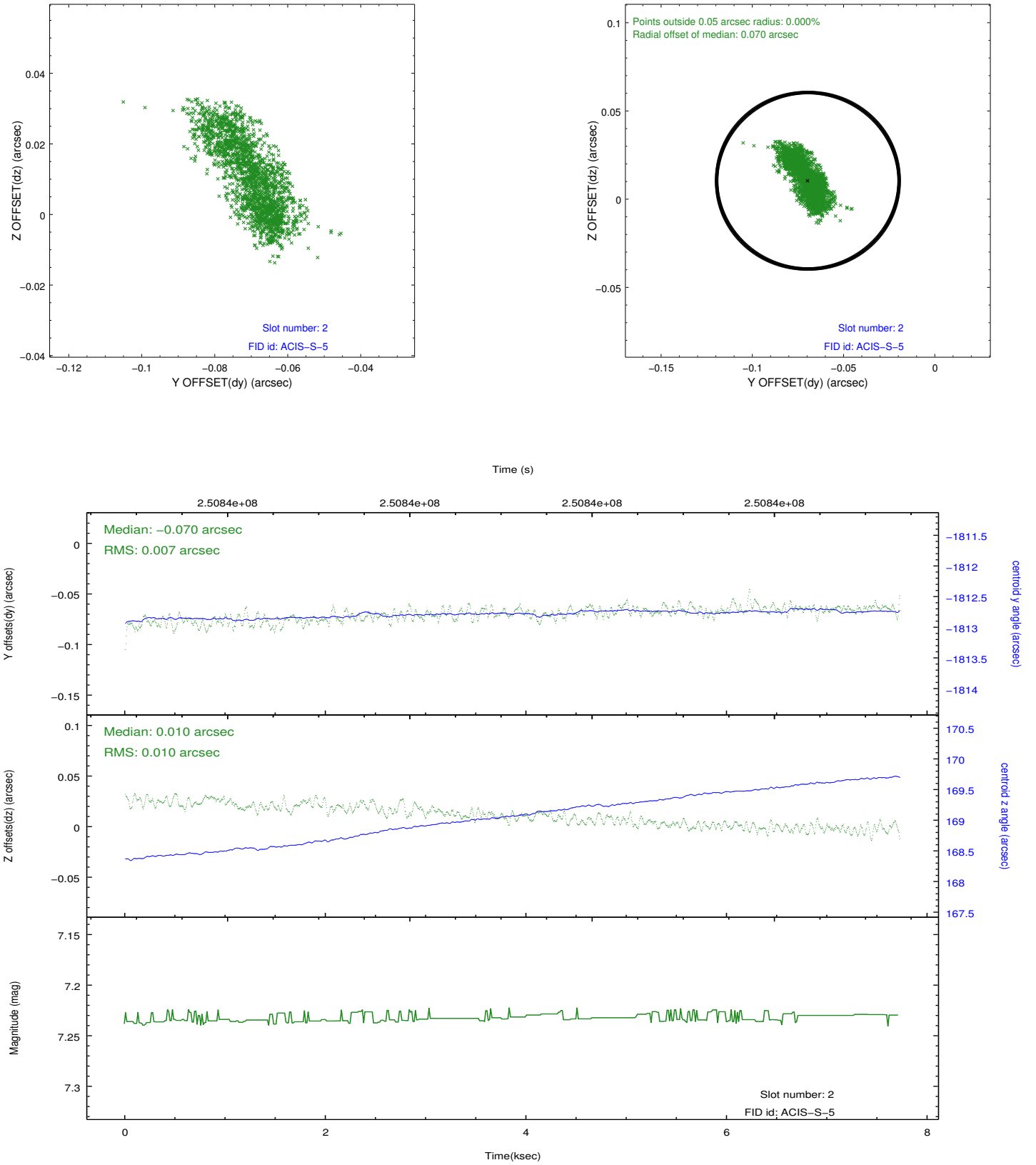
2.5.1 Slot 0



2.5.2 Slot 1

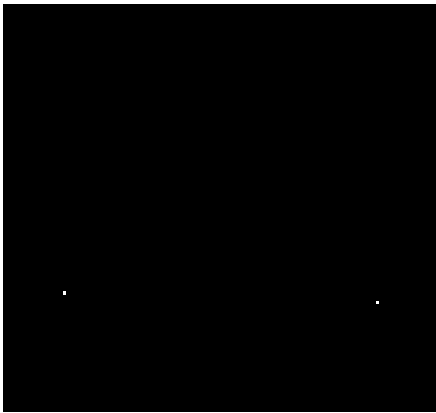


2.5.3 Slot 2

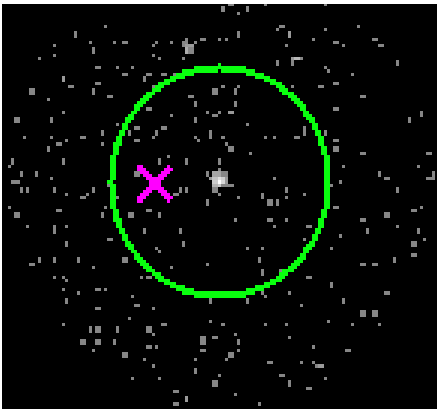


3 Gratings

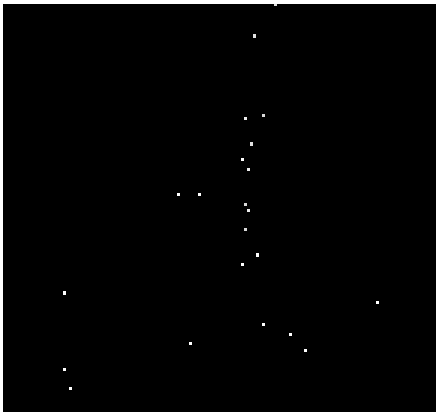
3.1 HEG Arm



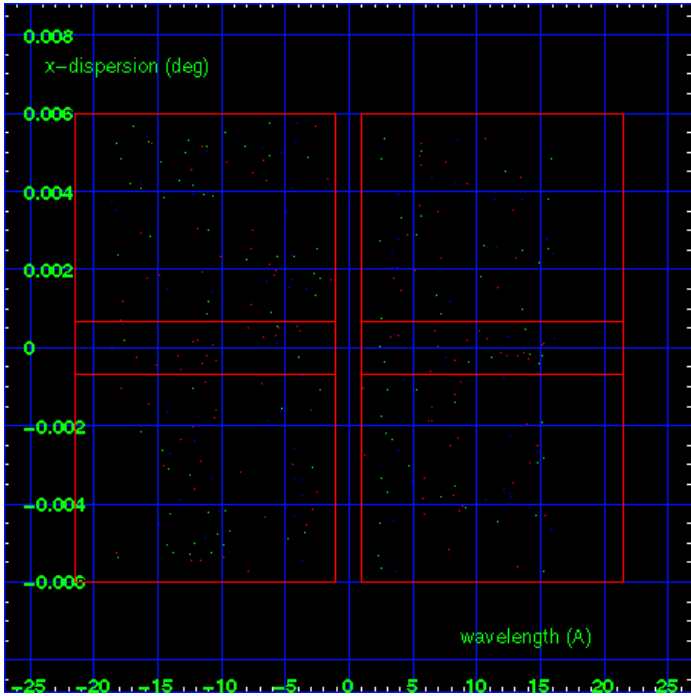
HEG Order Sort 123



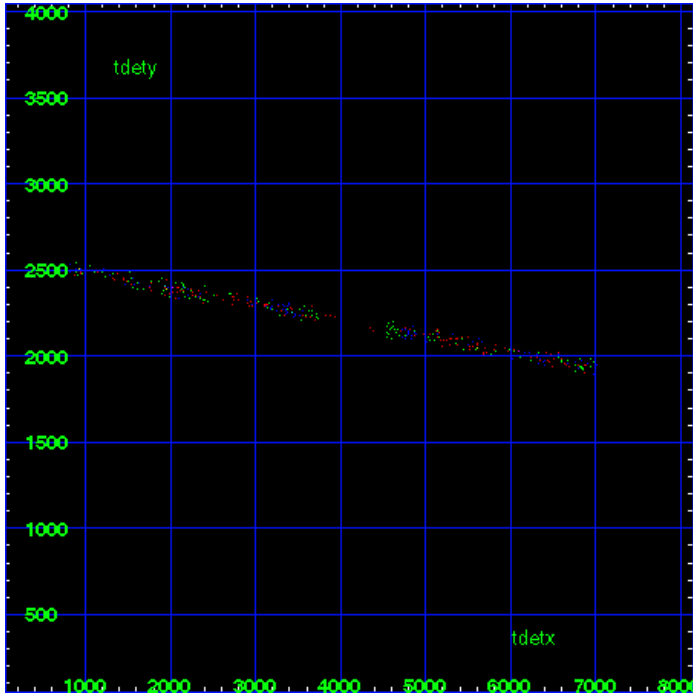
HEG Zero Order



HEG Order Sort ALL

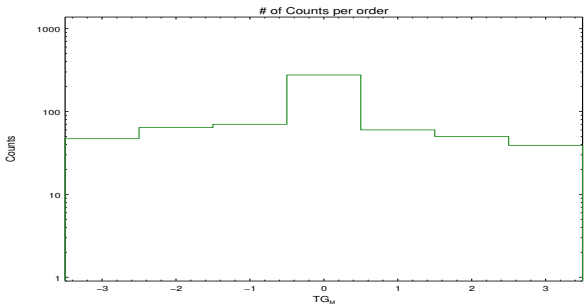


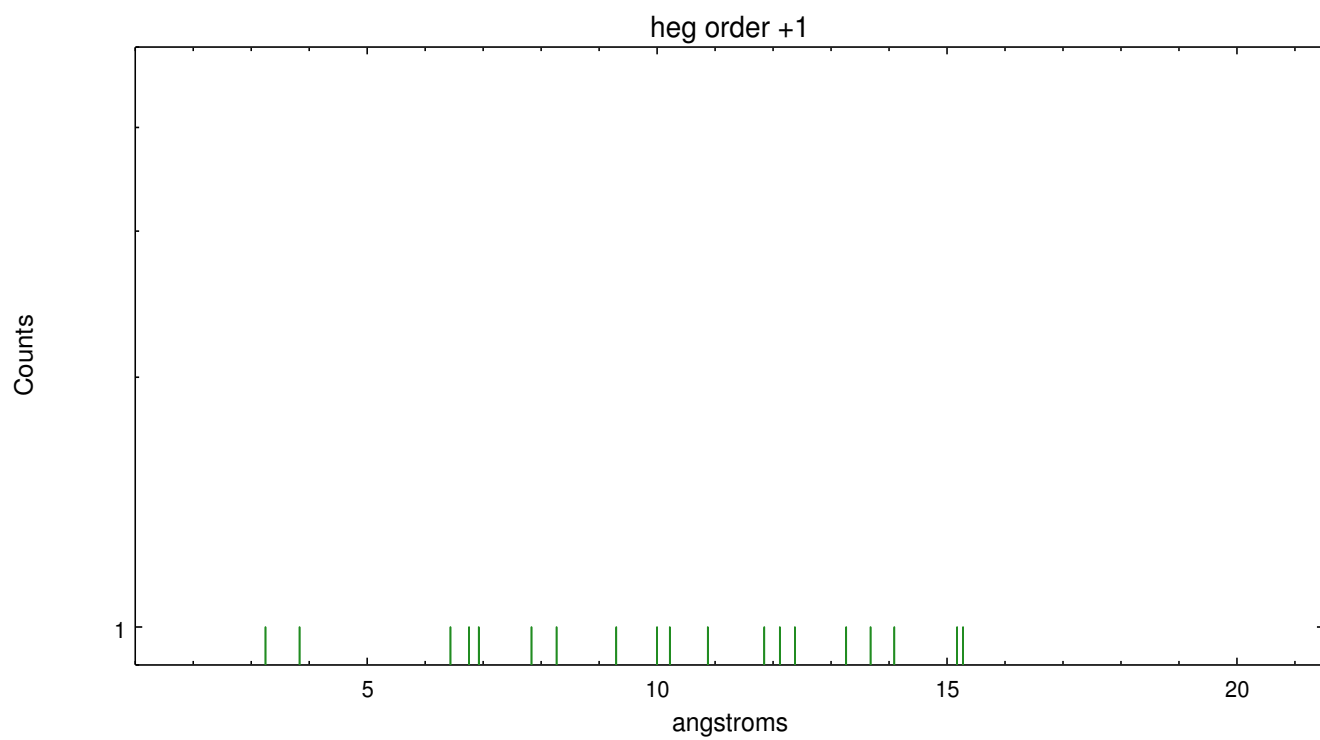
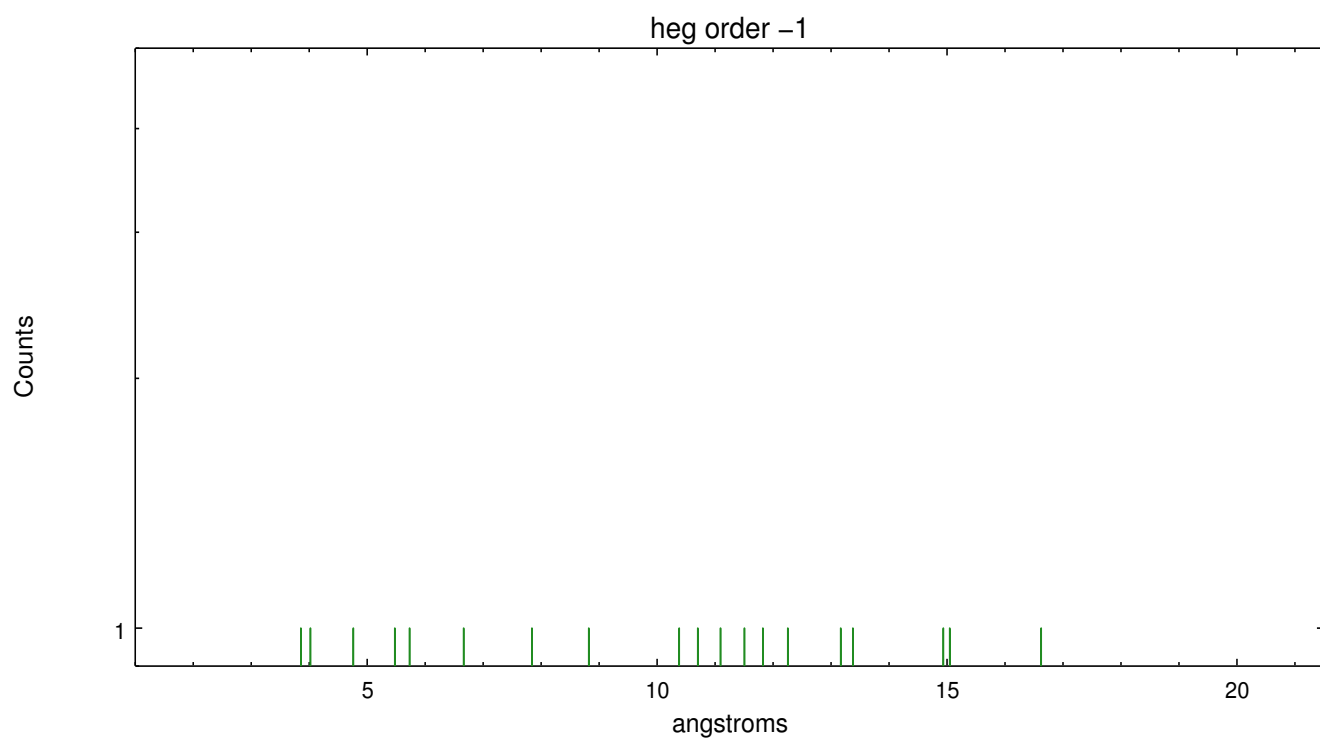
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	47	64	70	276	60	50	39

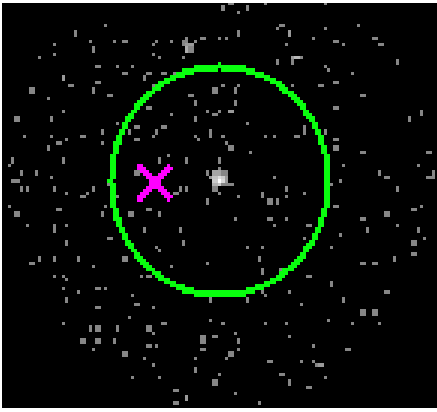




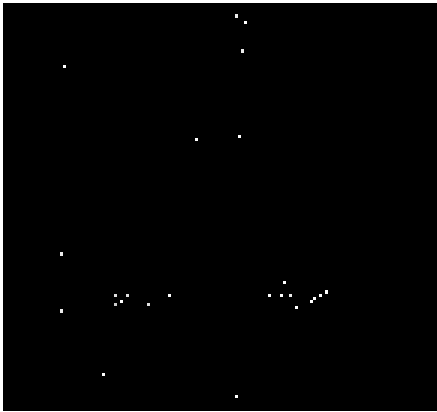
3.2 MEG Arm



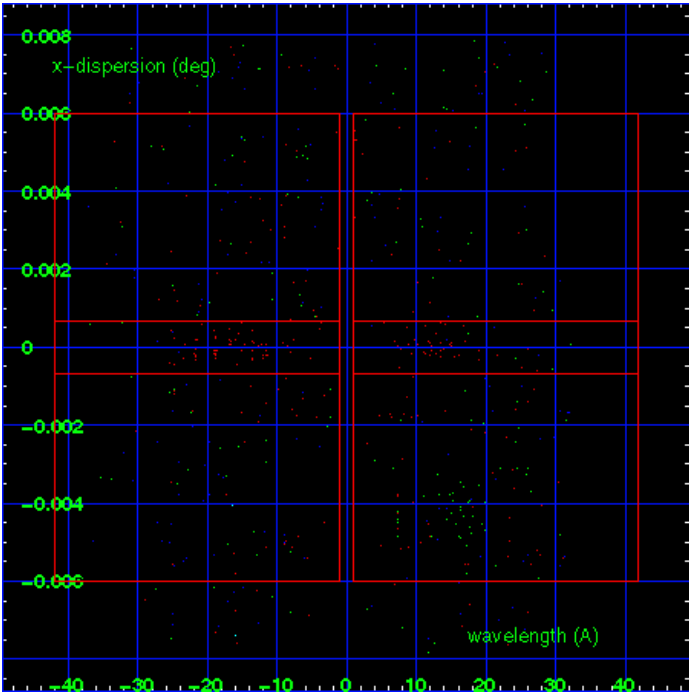
MEG Order Sort 123



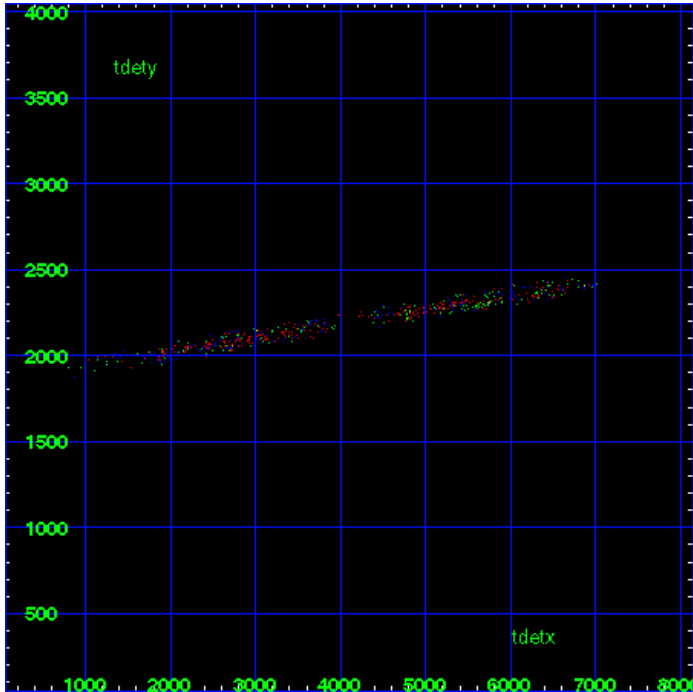
MEG Zero Order



MEG Order Sort ALL

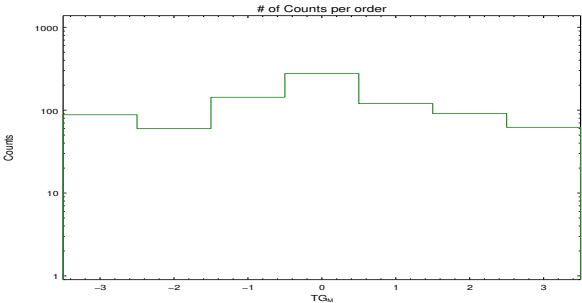


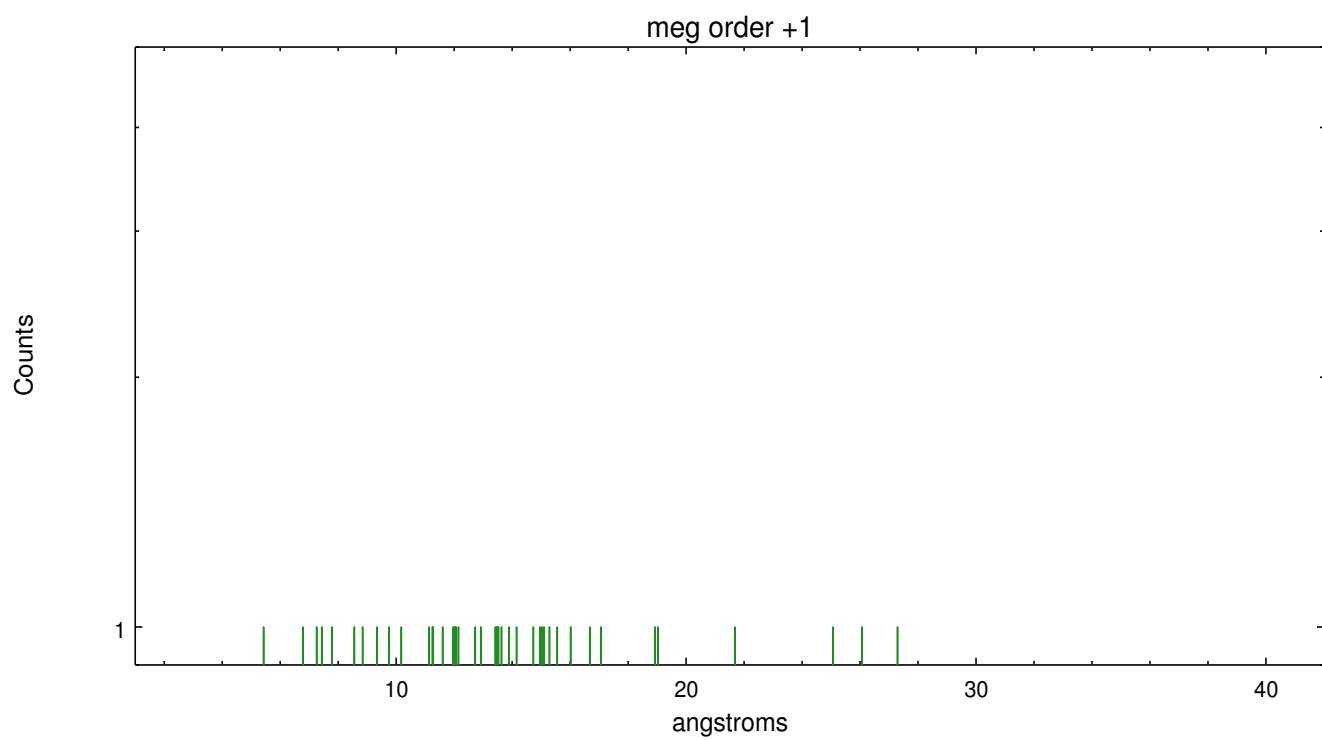
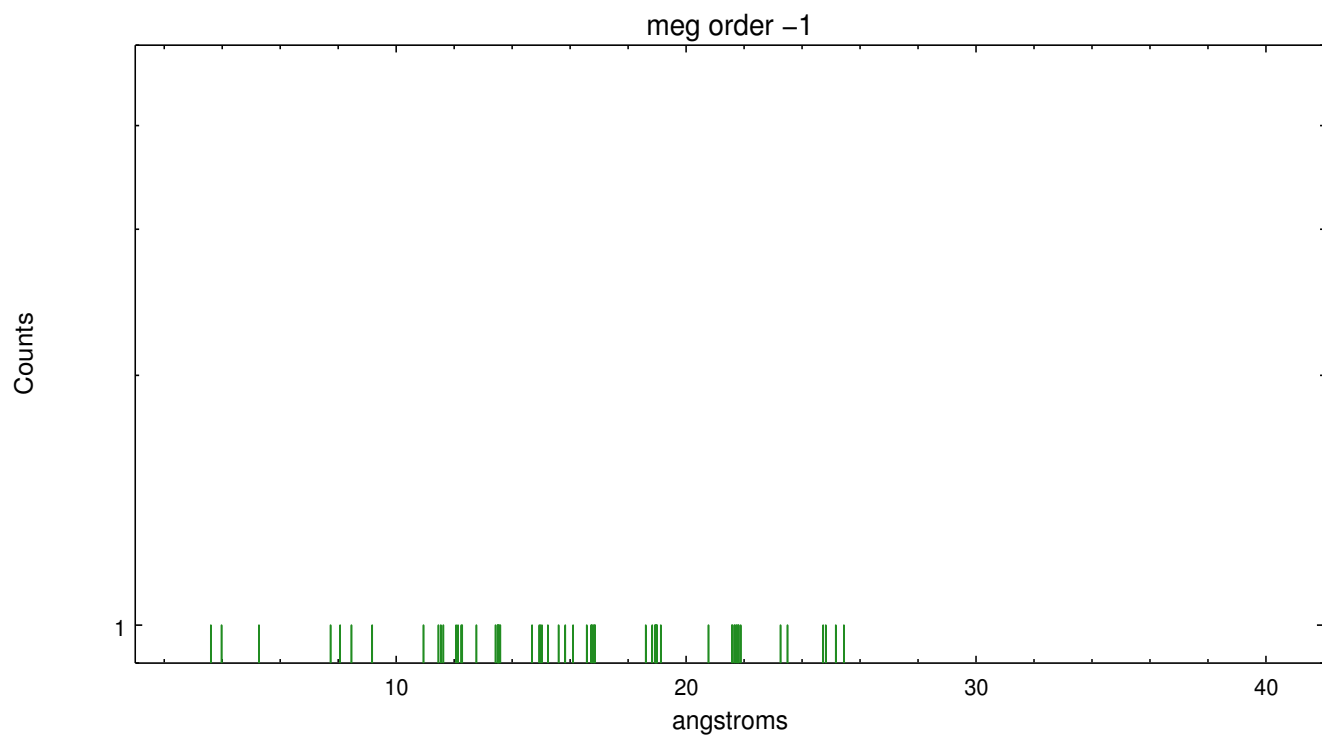
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	88	60	143	276	120	91	62





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.03.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.711999

A.2 Comments

Multiple sources in the field may cause contamination of the primary extraction at some wavelengths. Extraction is of 15 Mon.