

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3401 - L2 Version 3
Chandra X-Ray Center

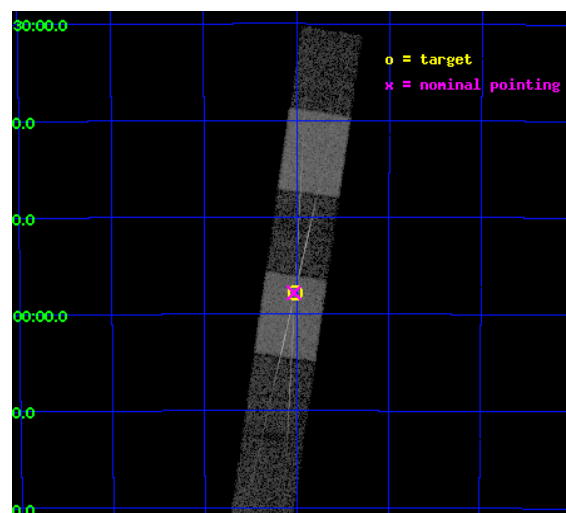
L2 Processing Date : Oct 2 2012

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1 Front

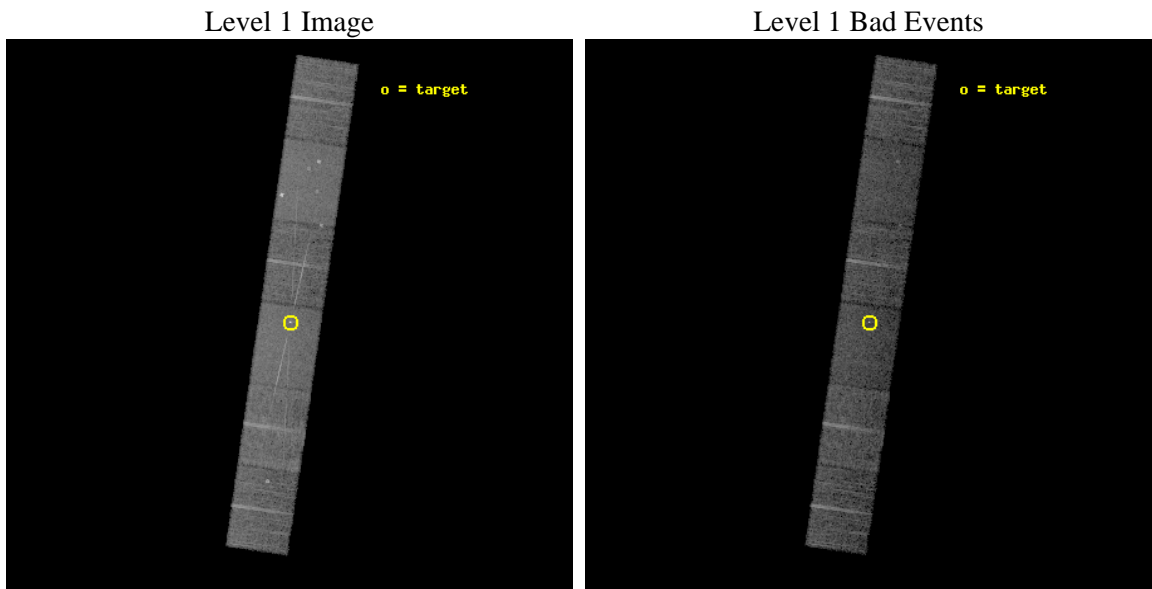
seq_num	400211	Sequence number
obs_id	3401	Observation id
title	BLACK HOLE X-RAY TRANSIENTS DURING OUTBURST DECAY	Proposal title
observer	Dr. John Tomsick	Principal investigator
object	XTE J1650-500	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	252.504167	Observer's specified target RA [deg]
dec_targ	-49.9625	Observer's specified target Dec [deg]
ra_nom	252.50709376182	Nominal RA [deg]
dec_nom	-49.963672571593	Nominal Dec [deg]
roll_nom	98.28616277541	Nominal Roll [deg]
revision	3	Processing version of data
ontime	9662.5	Sum of GTIs [s]
livetime	9506.4422441205	Livetime [s]
ontime4	9662.5	Sum of GTIs [s]
ontime5	9662.5	Sum of GTIs [s]
ontime6	9662.5	Sum of GTIs [s]
ontime7	9662.5	Sum of GTIs [s]
ontime8	9662.5	Sum of GTIs [s]
ontime9	9662.5	Sum of GTIs [s]
l2events	83792	Number of level 2 events



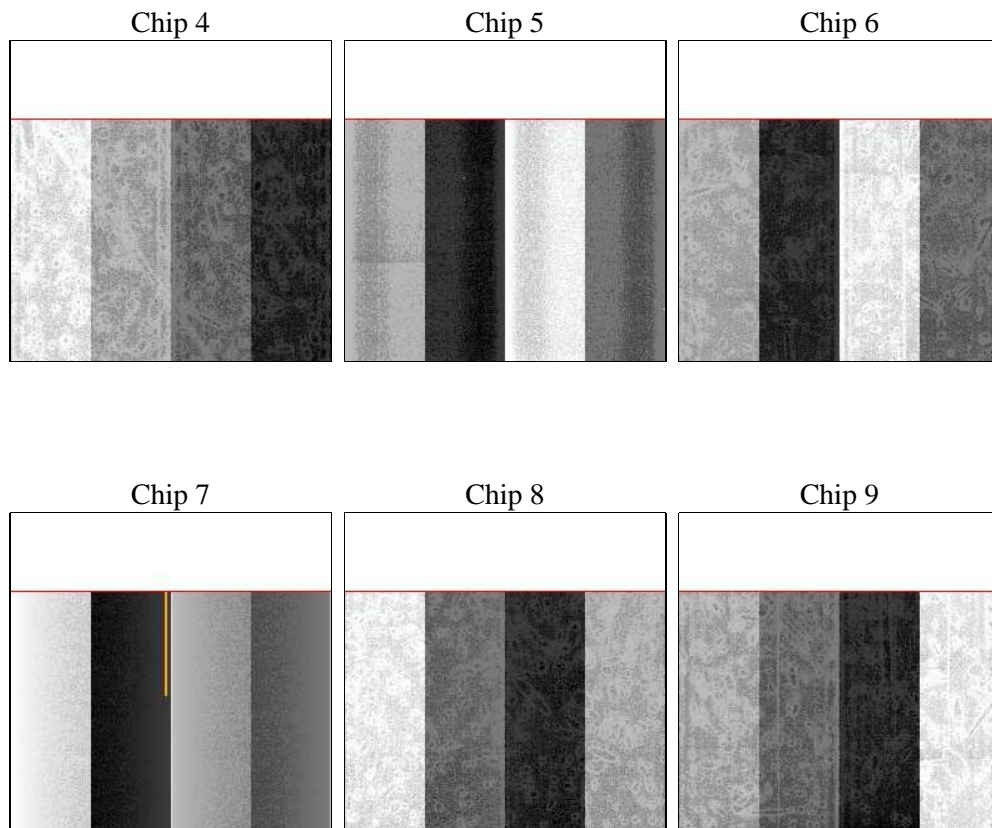
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	9662.5	Sum of GTIs [s]
caldsver	4.5.2	 	ontime4	9662.5	Sum of GTIs [s]
date	2012-10-02T05:10:32	Date and time of file creation	ontime5	9662.5	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	9662.5	Sum of GTIs [s]
			ontime7	9662.5	Sum of GTIs [s]
			ontime8	9662.5	Sum of GTIs [s]
			ontime9	9662.5	Sum of GTIs [s]
			l1events	349714	Number of level 1 events

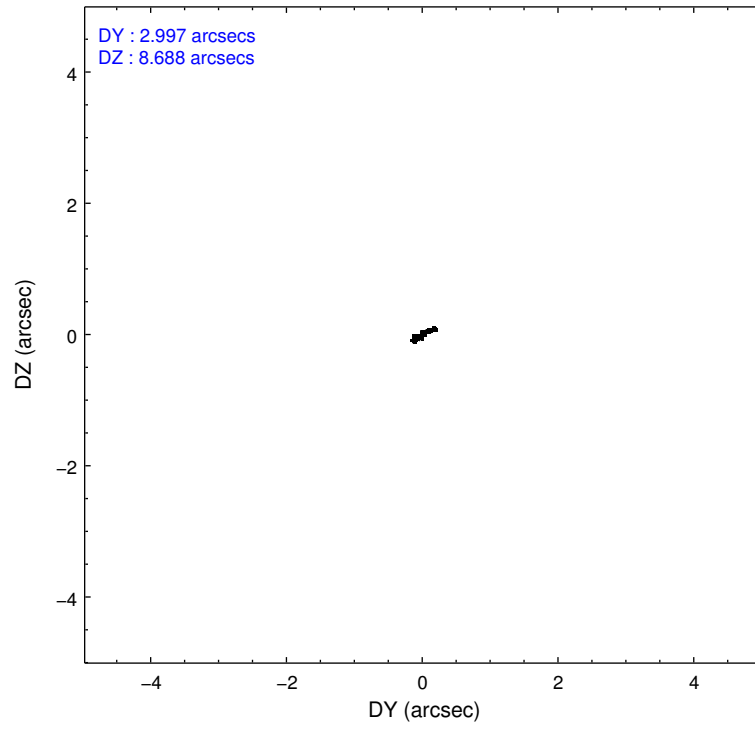
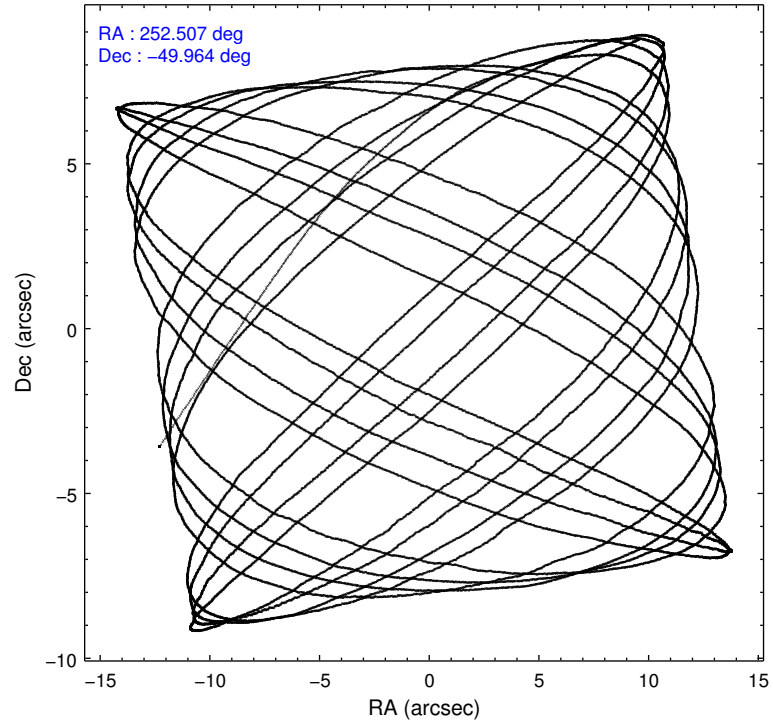
2.1.4 Events

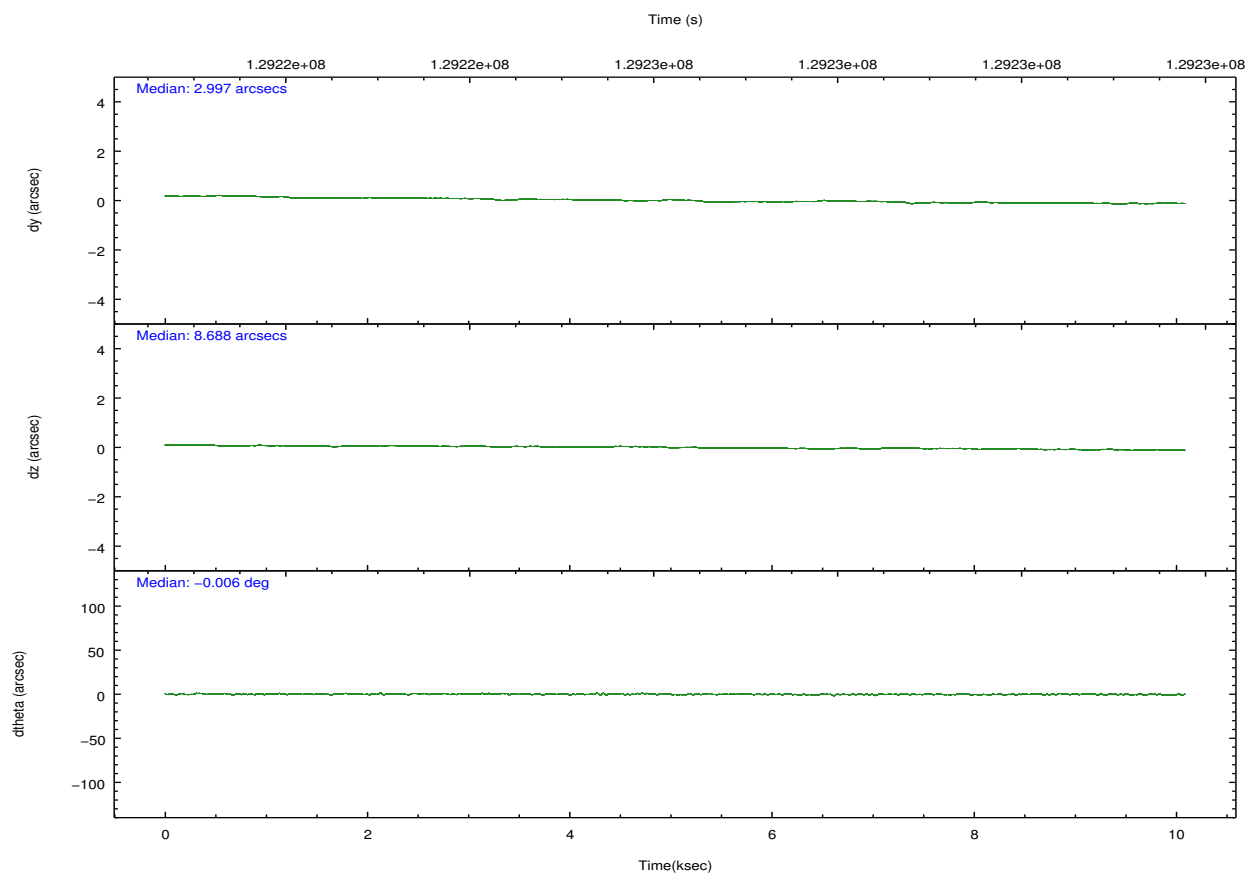
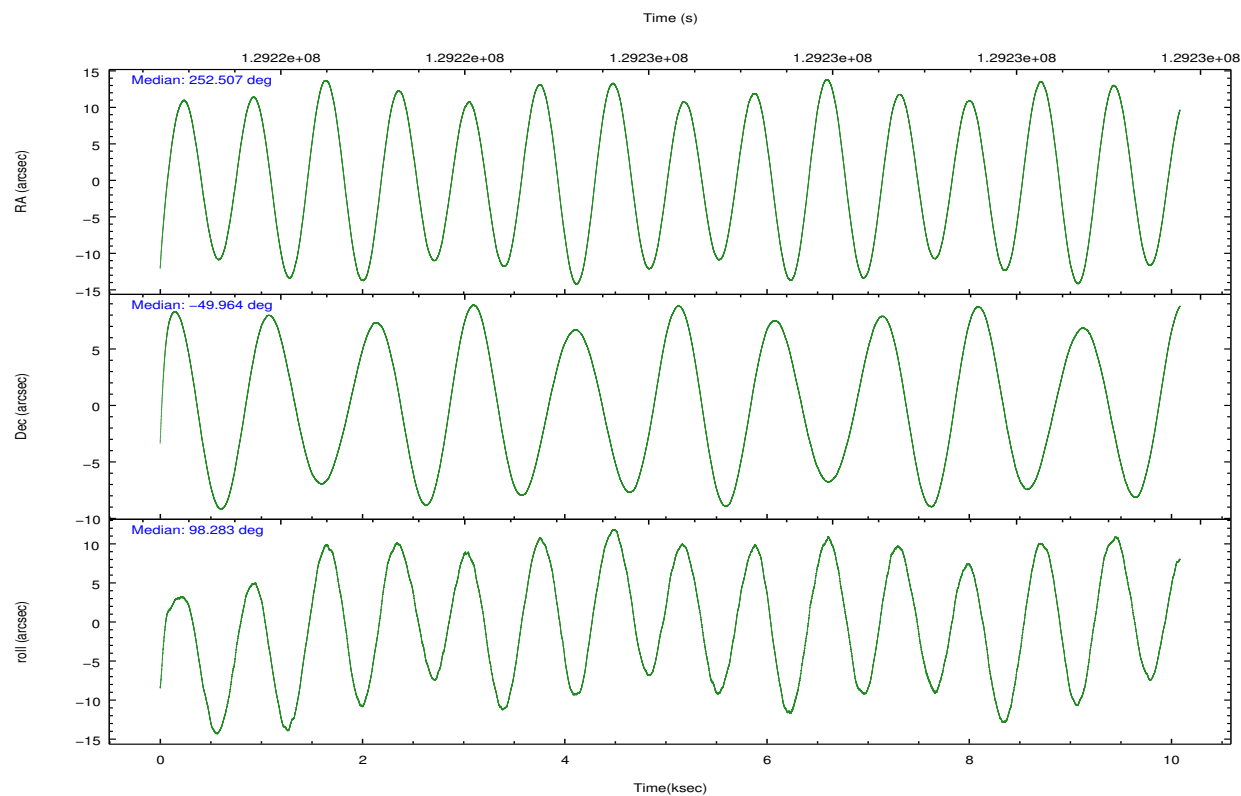
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	52630	69528	49655	66916	62735	48250	grade 0 events	2497	6441	4889	3429	5044	3131
rejected events	46573	35211	40727	35791	48095	41637		4%	9%	9%	5%	8%	6%
rejected %	88%	50%	82%	53%	76%	86%	grade 1 events	22	361	27	97	32	24
								0%	0%	0%	0%	0%	0%
							grade 2 events	1407	9122	1547	6547	3071	1124
								2%	13%	3%	9%	4%	2%
							grade 3 events	575	1592	681	2965	1522	643
								1%	2%	1%	4%	2%	1%
							grade 4 events	538	1504	682	2926	1447	595
								1%	2%	1%	4%	2%	1%
							grade 5 events	1680	5321	1987	5937	2461	2116
								3%	7%	4%	8%	3%	4%
							grade 6 events	1041	15668	1132	15267	3560	1123
								1%	22%	2%	22%	5%	2%
							grade 7 events	44870	29519	38710	29748	45598	39494
								85%	42%	77%	44%	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	252.533742	252.507093761819	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	-49.984861	-49.96367257159304	Subarray start row	1	1
[deg] Pointing Roll	98.149942	98.28616277540975	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	-187.1254020033014			
[mm] SIM translation stage offset	-3	-3.007120579706367			
[s] Observation start time (MET)	129221776.184000	129220609.70718			
Observation start date	2002-02-04T14:55:12	2002-02-04T14:36:49			
[s] Observation end time (MET)	129231276.184000	129231623.33263			
Observation end date	2002-02-04T17:33:32	2002-02-04T17:40:23			
Read mode	TIMED	TIMED			

2.3 Aspect



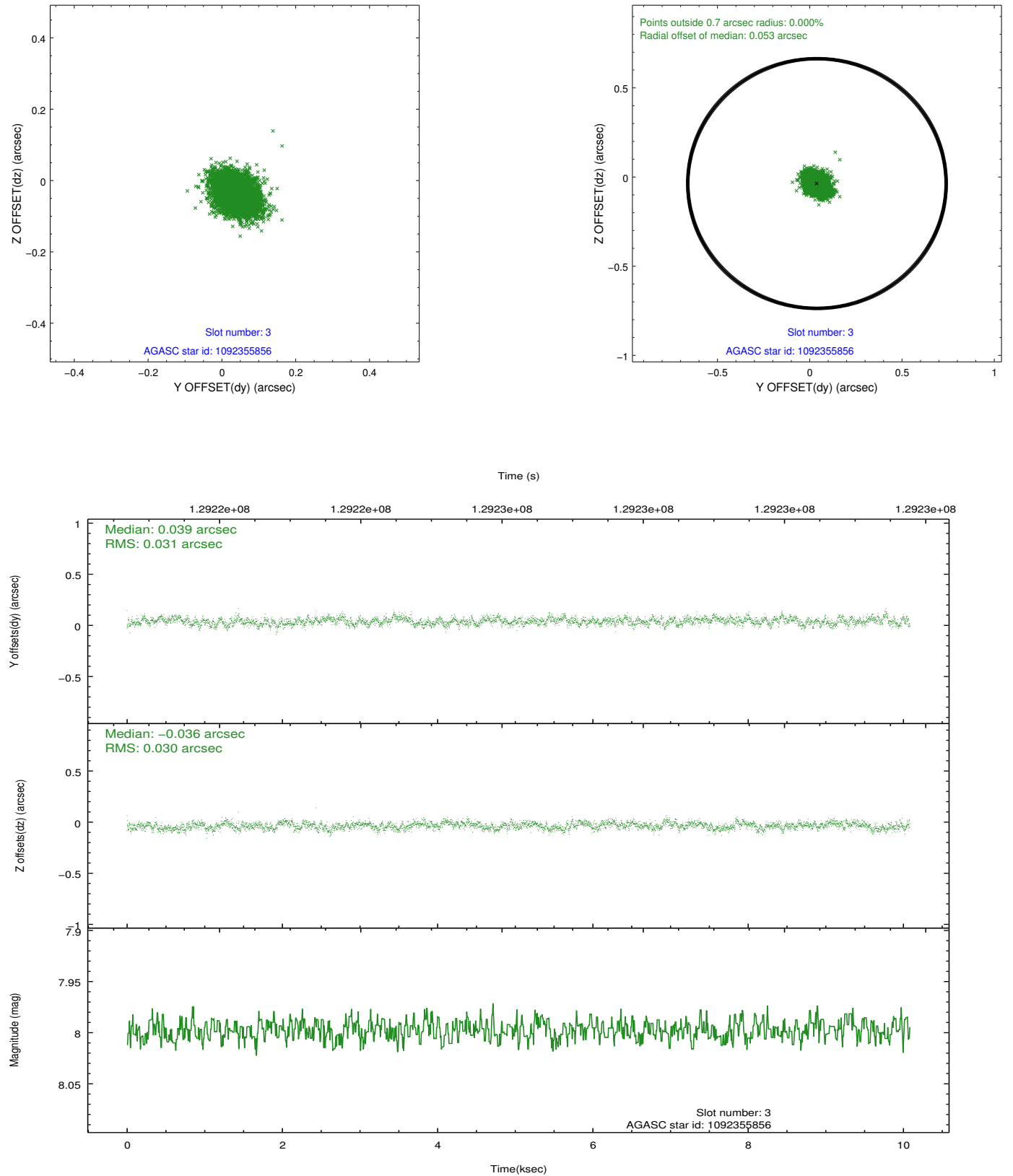


Slot Statistics

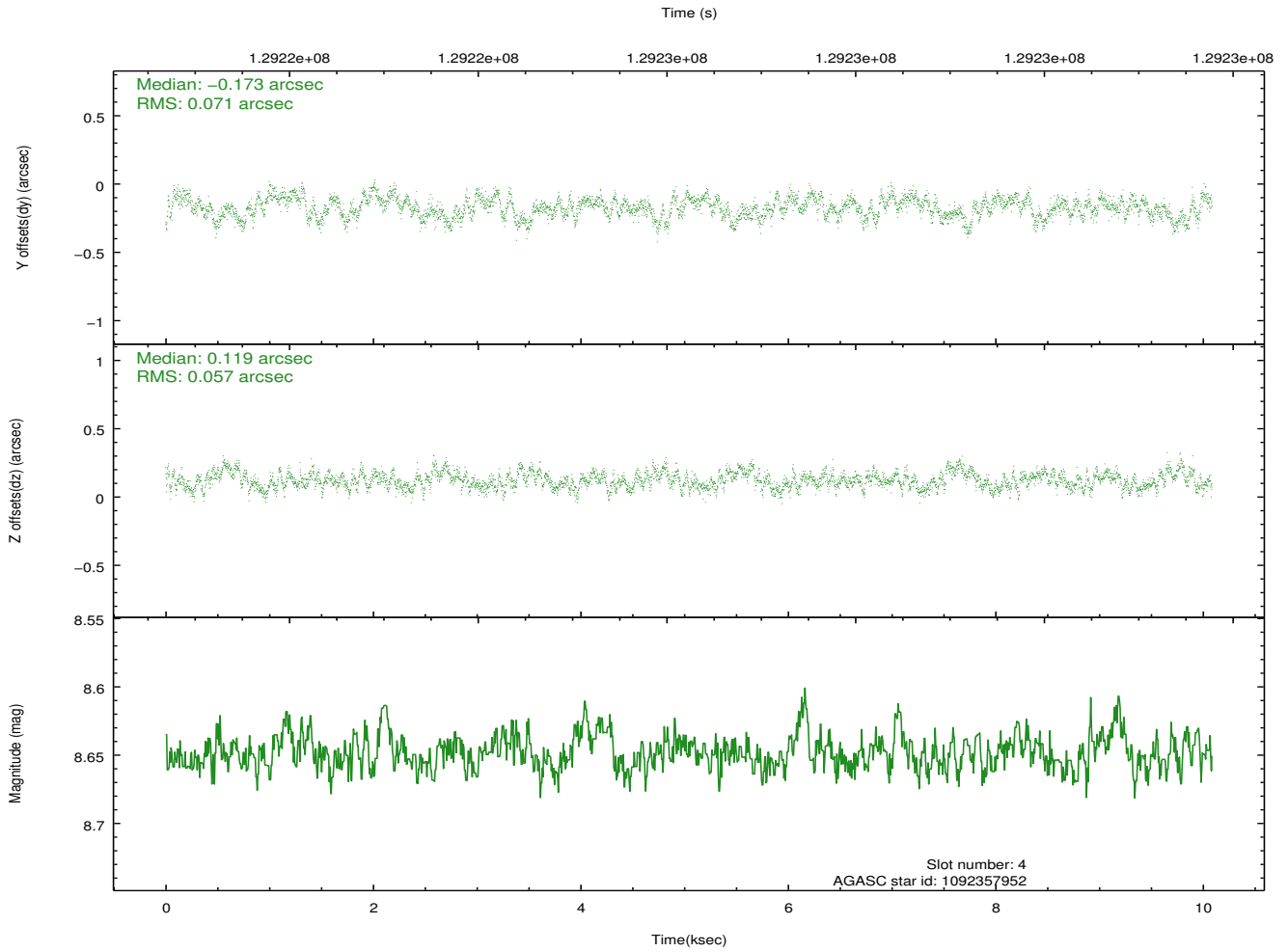
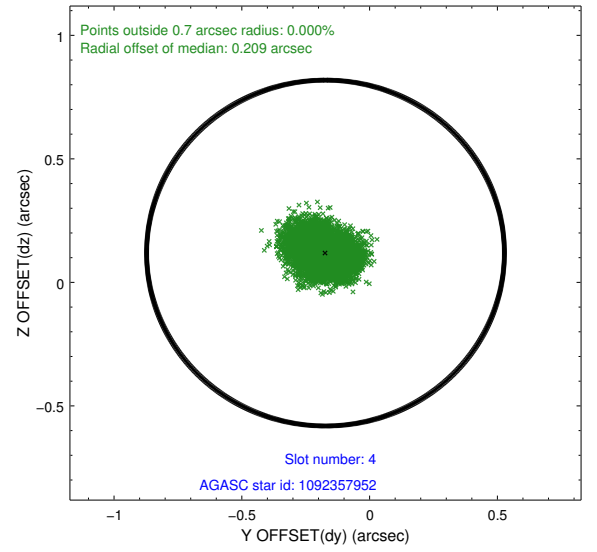
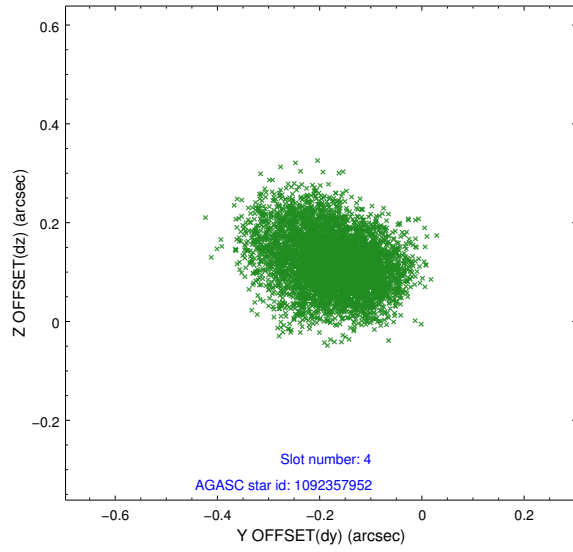
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	2460	0.003	-0.012	0.008	0.014	0.000000	0.000000	940.60	-1787.62
1	FID	ACIS-S-5	7.24	2458	0.002	0.014	0.008	0.014	0.000000	0.000000	-1808.10	109.38
2	FID	ACIS-S-6	7.37	2460	-0.026	0.010	0.007	0.011	0.000000	0.000000	405.56	753.94
3	GUIDE	1092355856	8.00	4920	0.039	-0.036	0.046	0.075	252.380362	-50.402230	-1437.92	561.06
4	GUIDE	1092357952	8.65	4919	-0.173	0.119	0.098	0.156	252.624295	-49.307047	2384.66	-556.24
5	GUIDE	1092356392	8.24	4916	-0.216	-0.192	0.061	0.094	252.320454	-49.578691	1517.47	285.14
6	GUIDE	1092487776	8.58	4920	0.073	0.176	0.080	0.130	253.418062	-50.236939	-1198.57	-1885.42
7	GUIDE	1092359864	8.90	4916	0.281	-0.068	0.061	0.101	252.576059	-50.620094	-2277.56	227.67

2.4 Star Slots

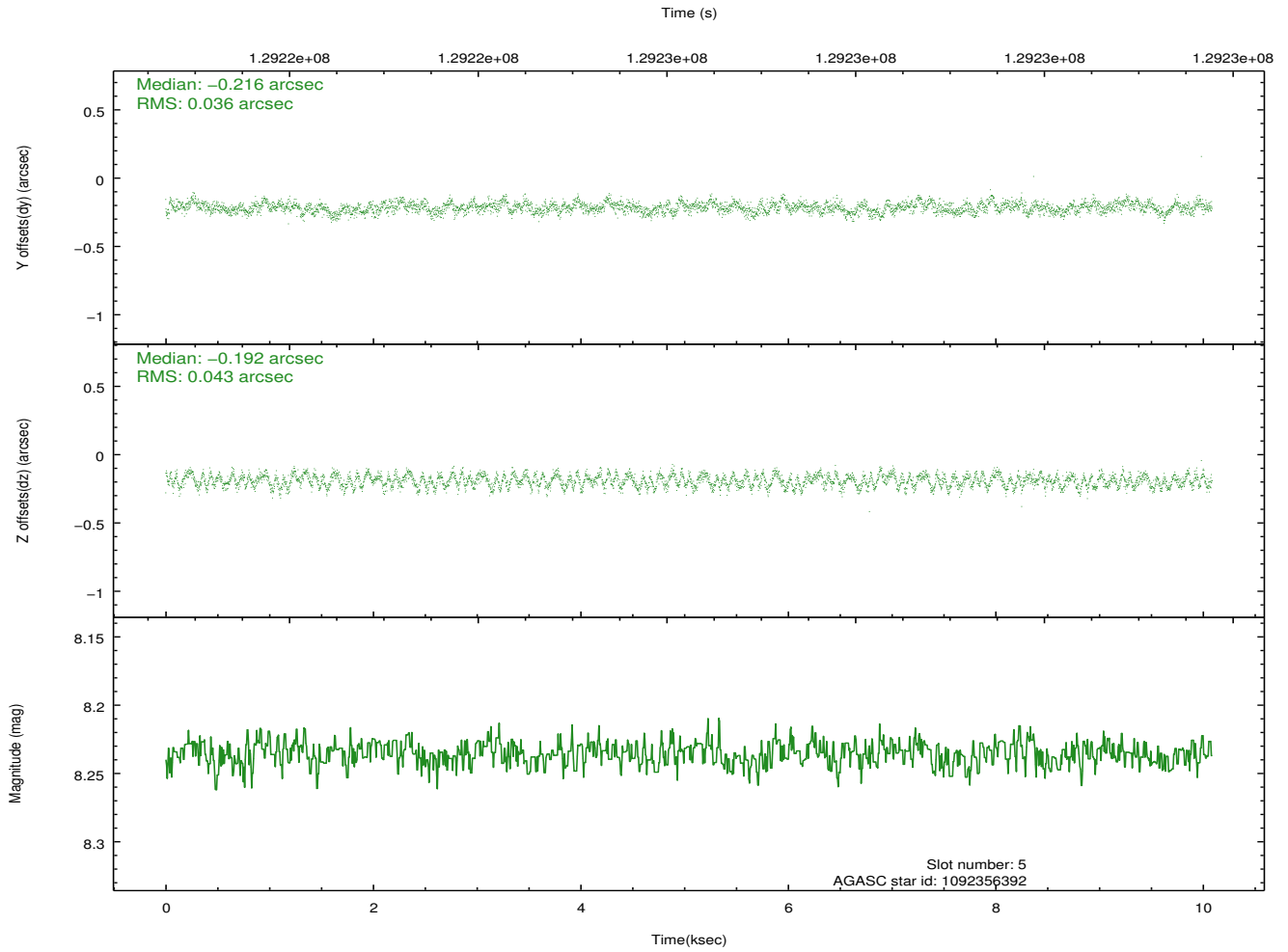
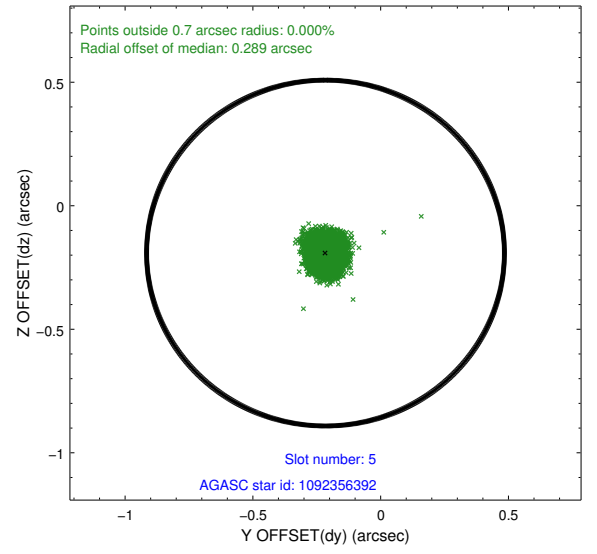
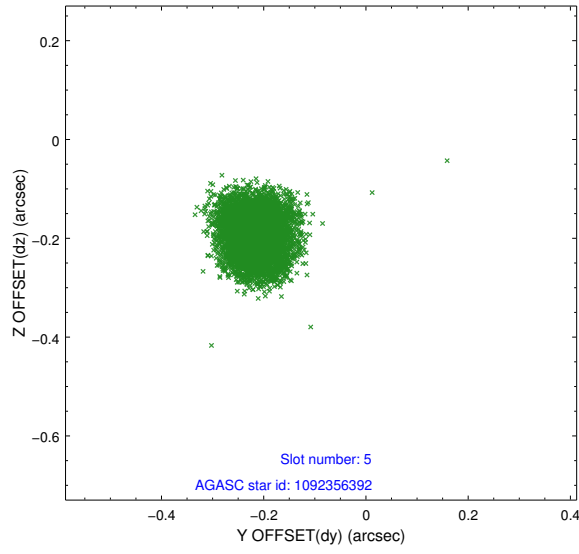
2.4.1 Slot 3



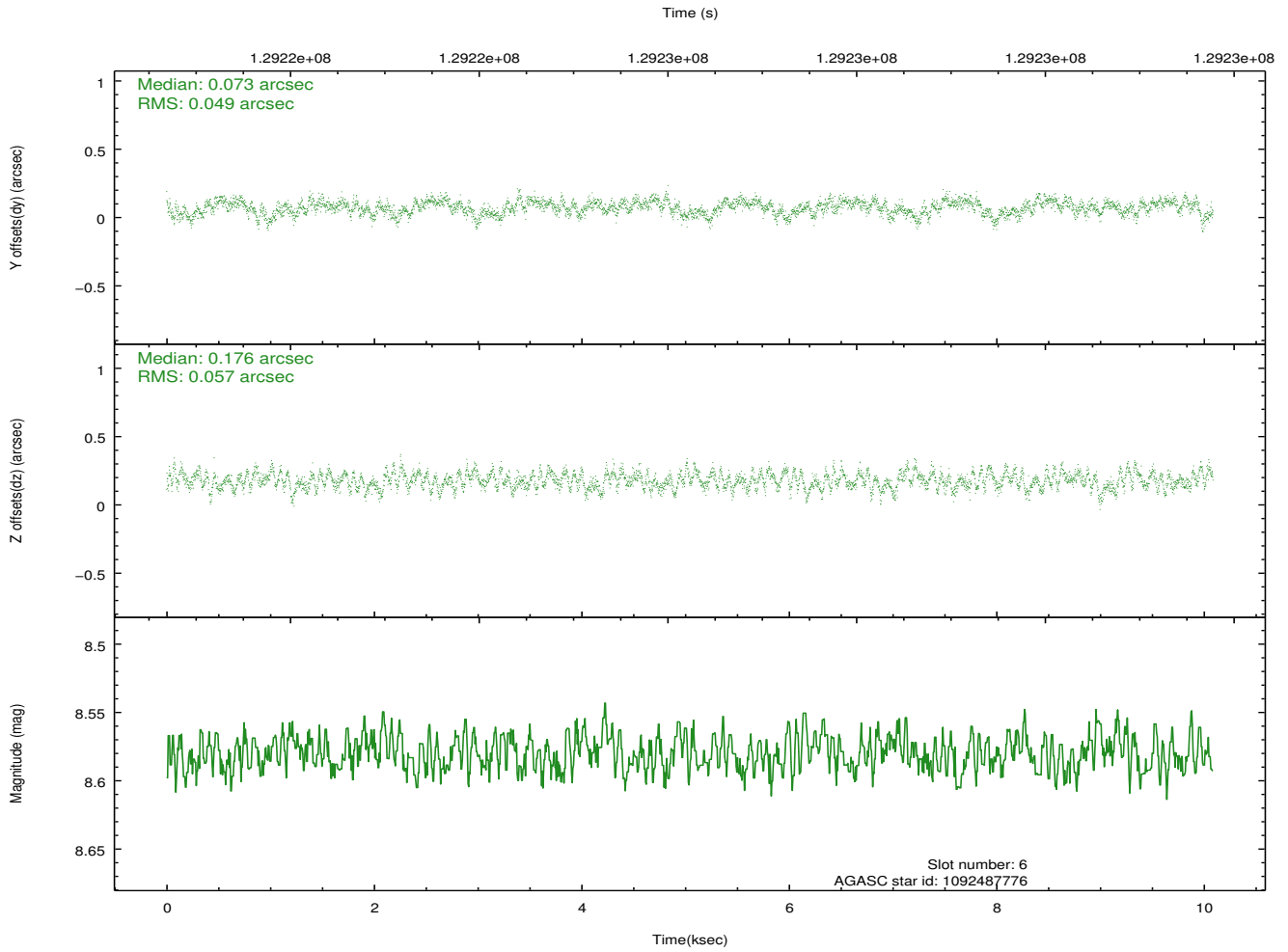
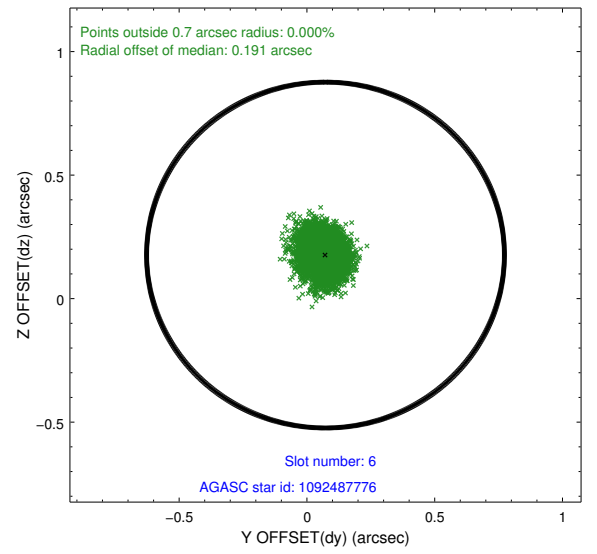
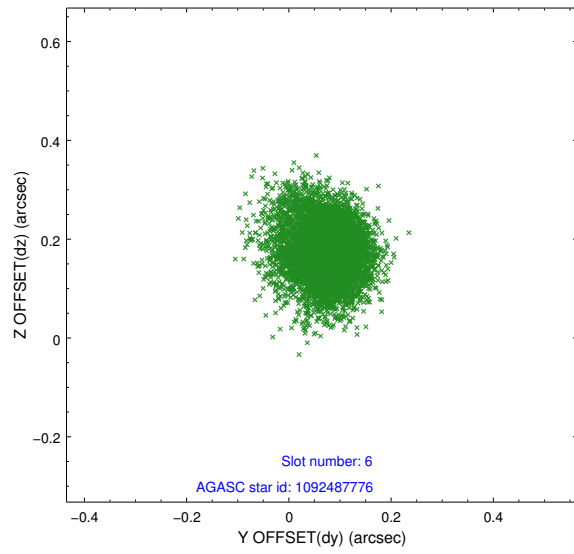
2.4.2 Slot 4



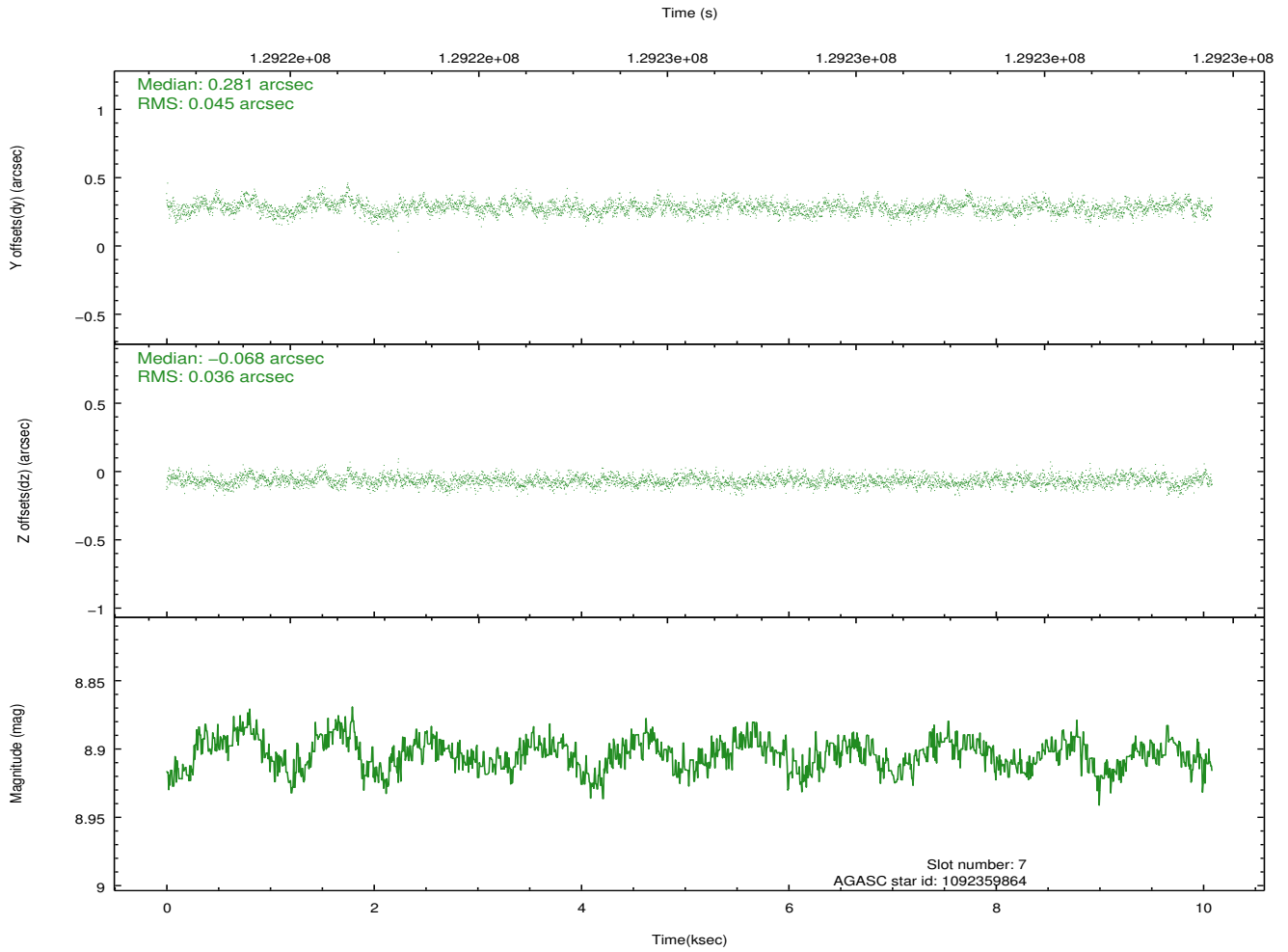
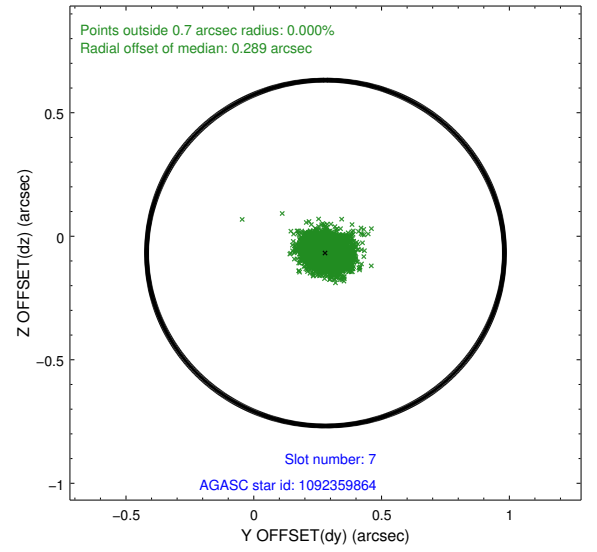
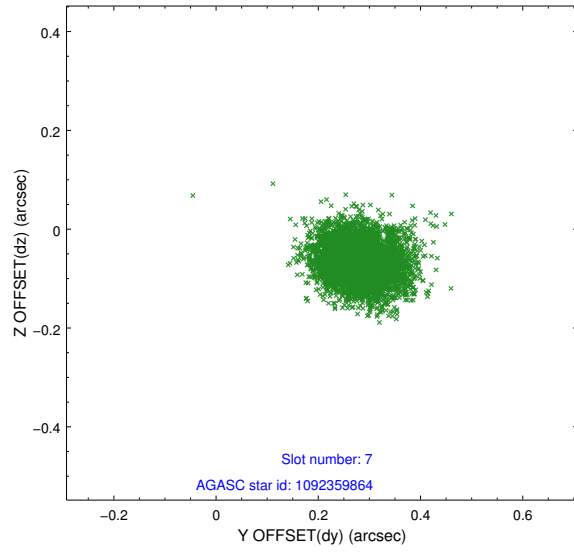
2.4.3 Slot 5



2.4.4 Slot 6

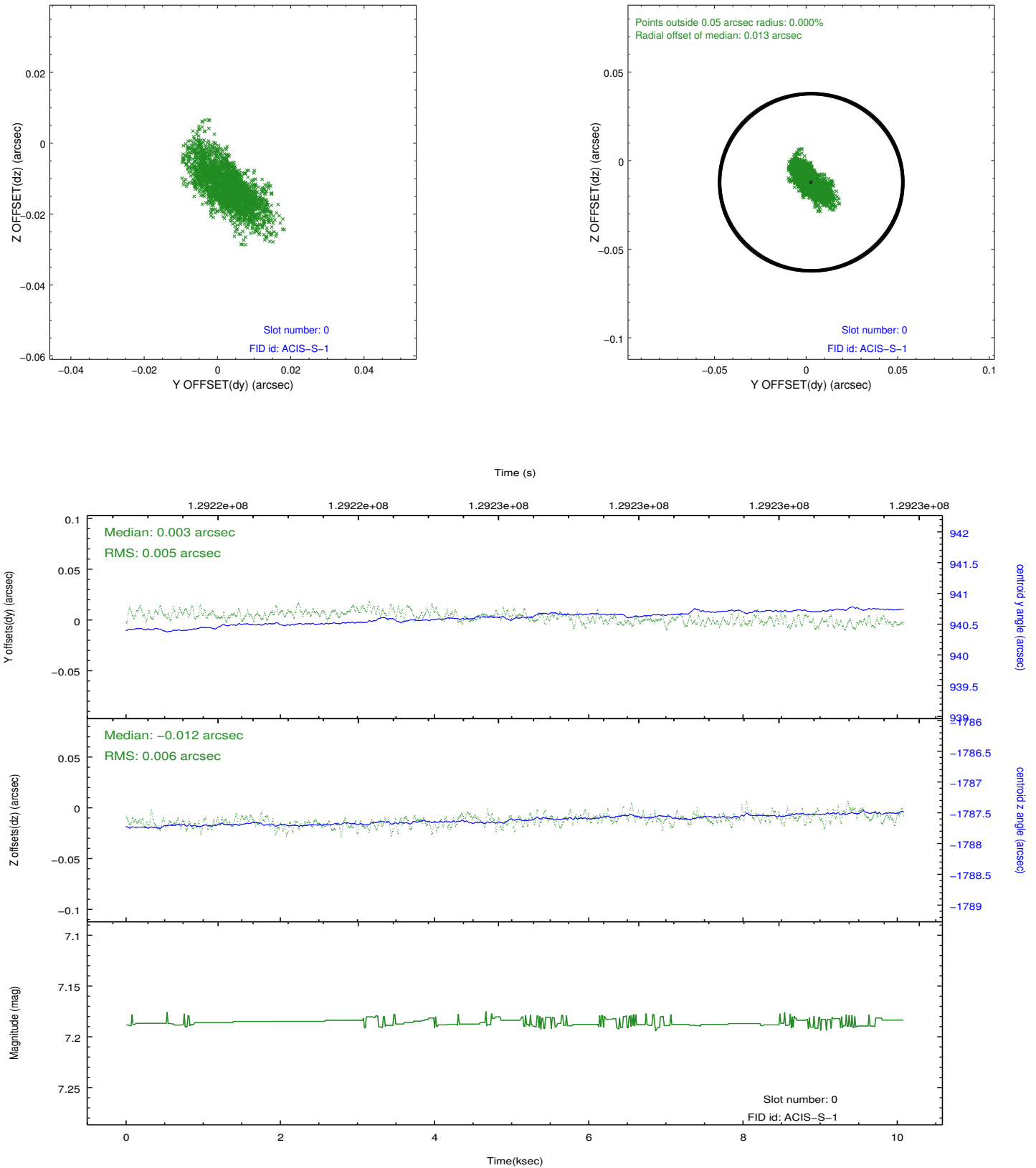


2.4.5 Slot 7

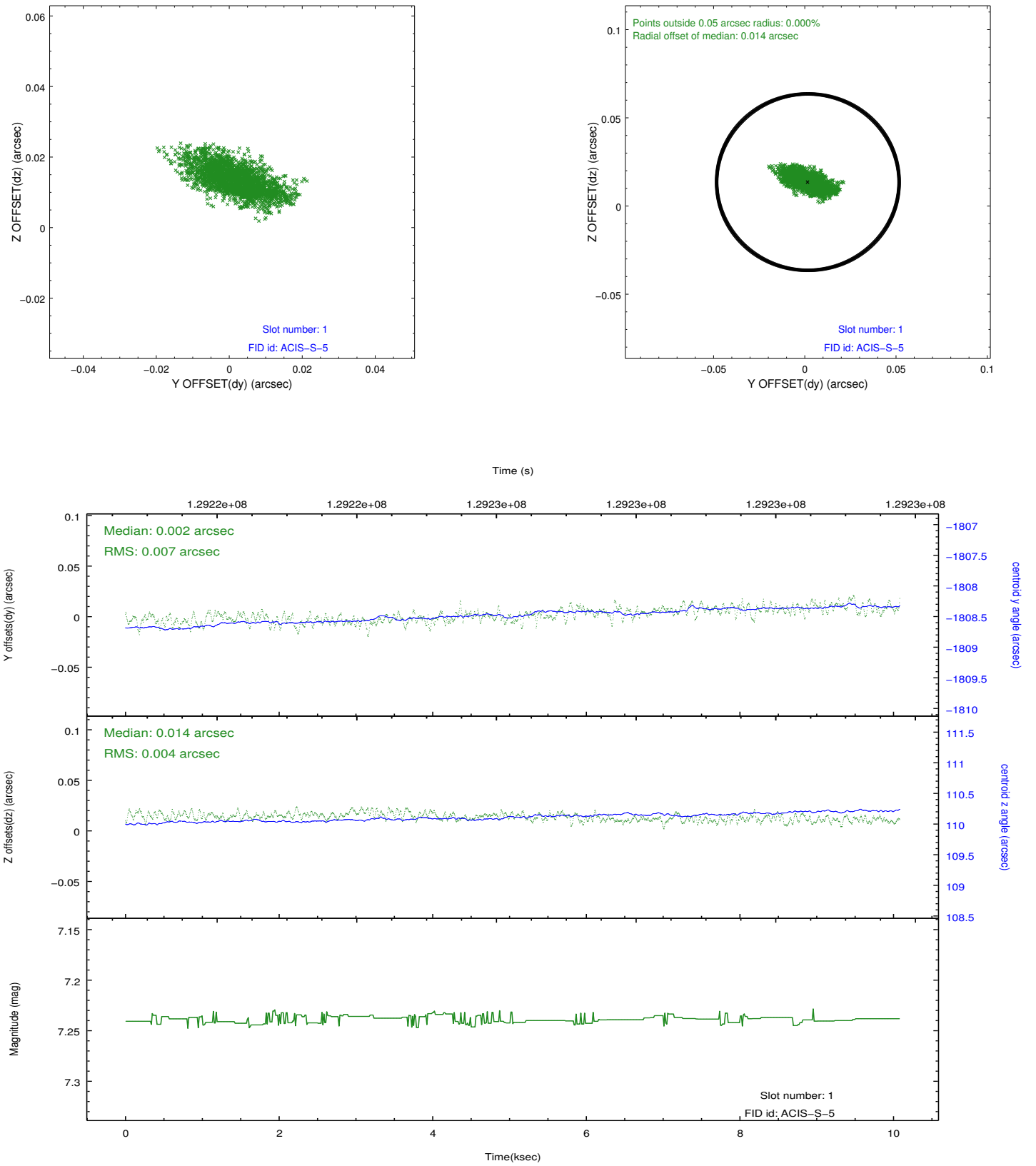


2.5 FID Slots

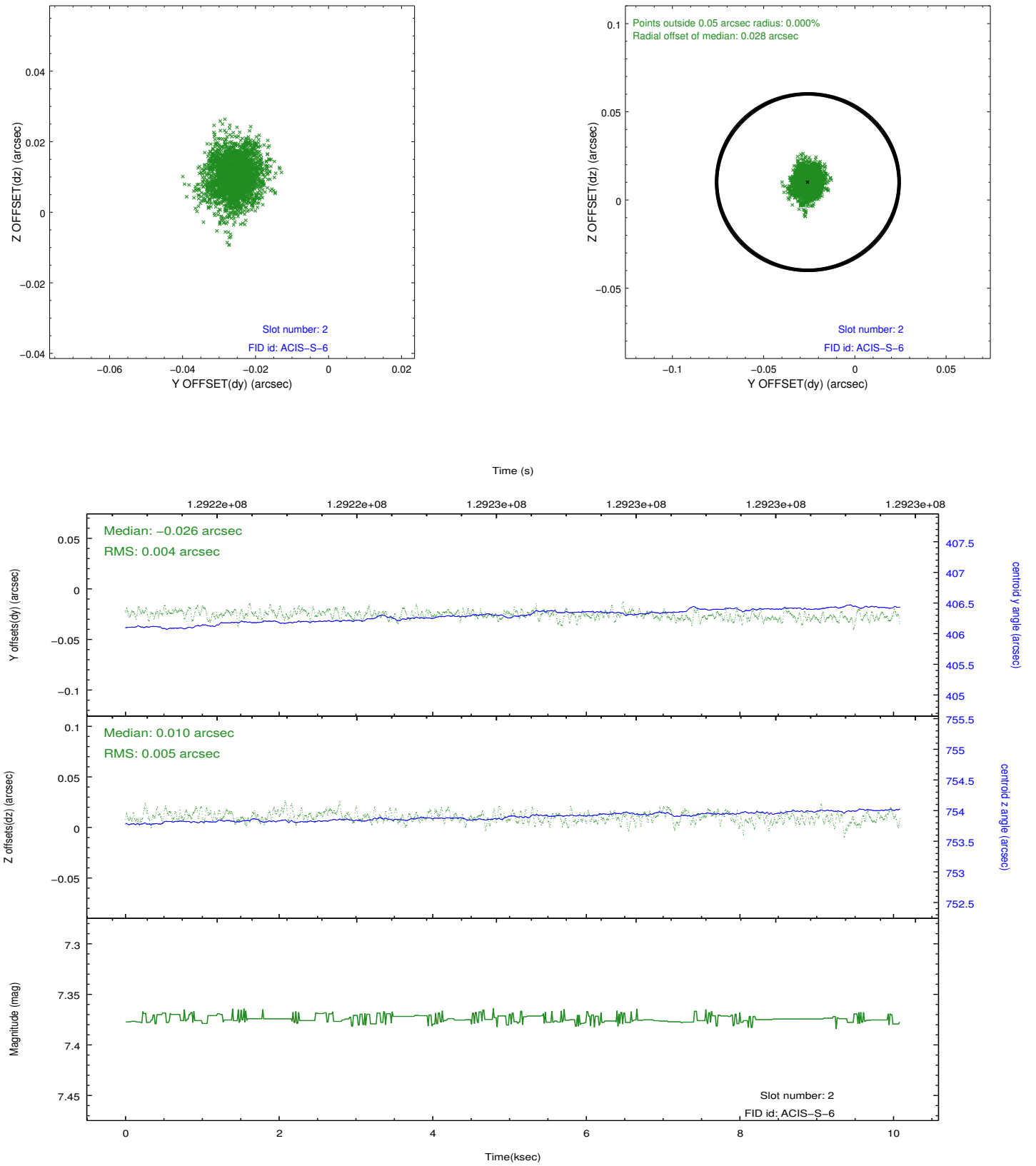
2.5.1 Slot 0



2.5.2 Slot 1

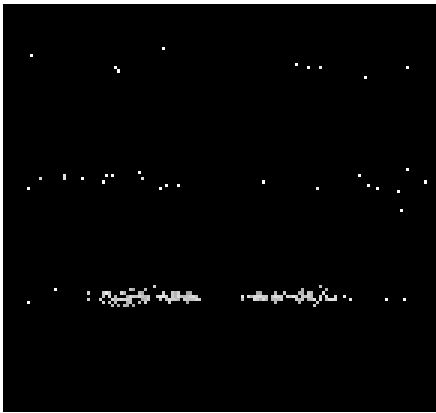


2.5.3 Slot 2

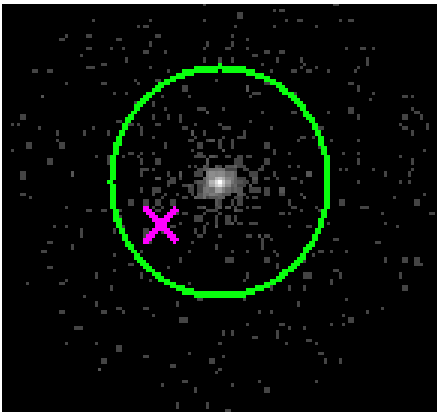


3 Gratings

3.1 HEG Arm



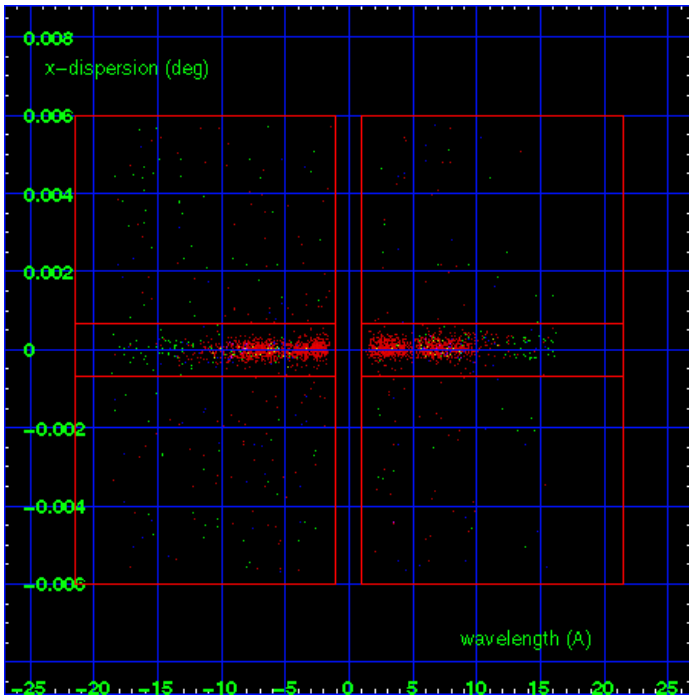
HEG Order Sort 123



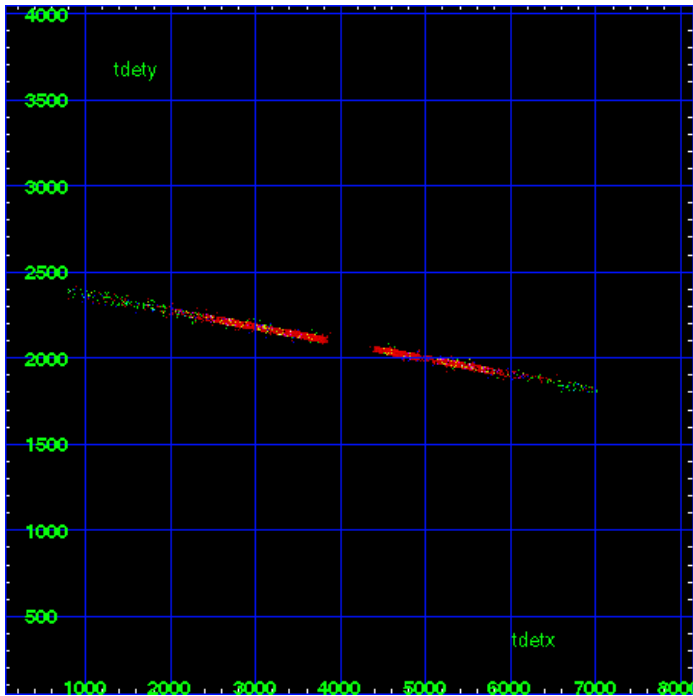
HEG Zero Order



HEG Order Sort ALL

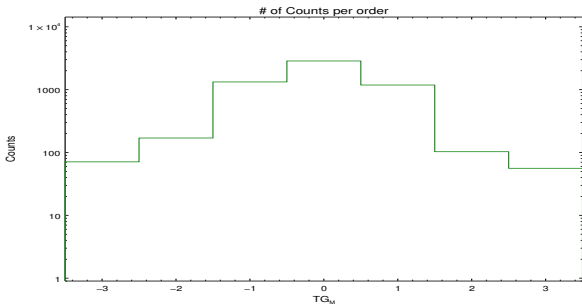


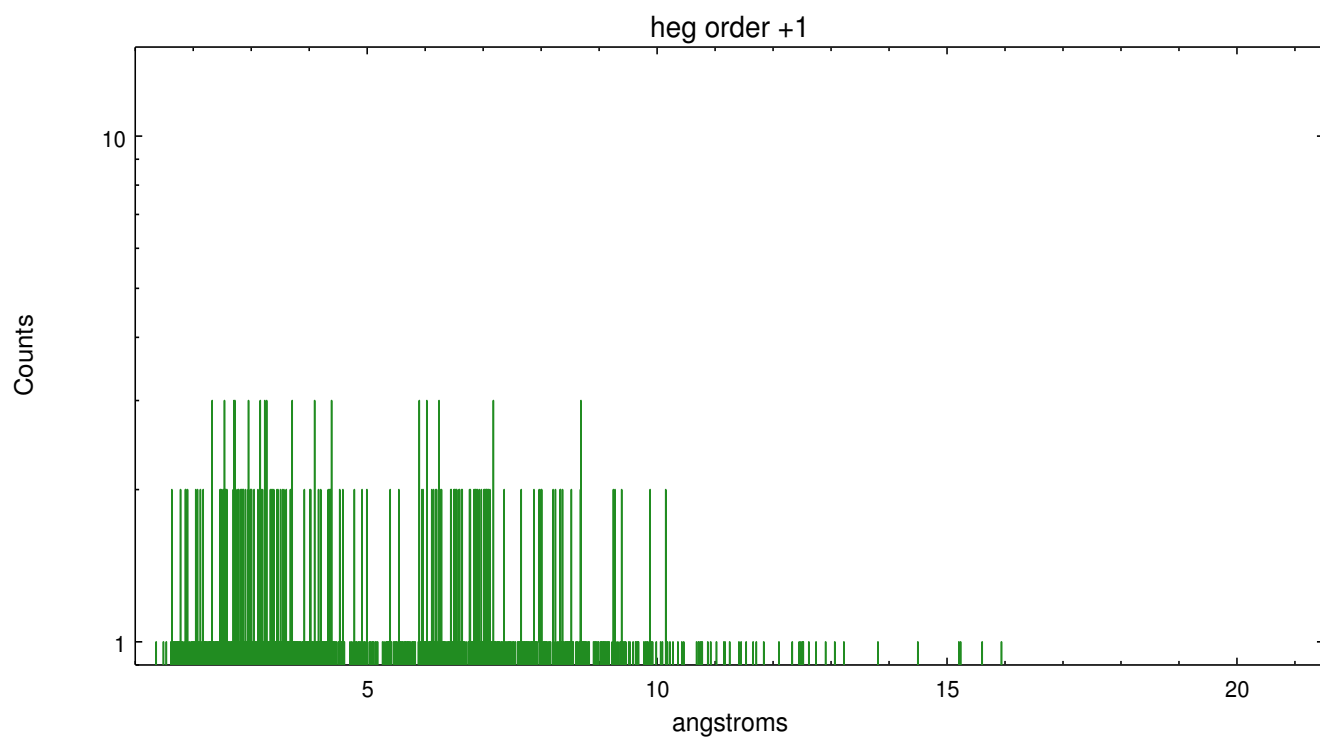
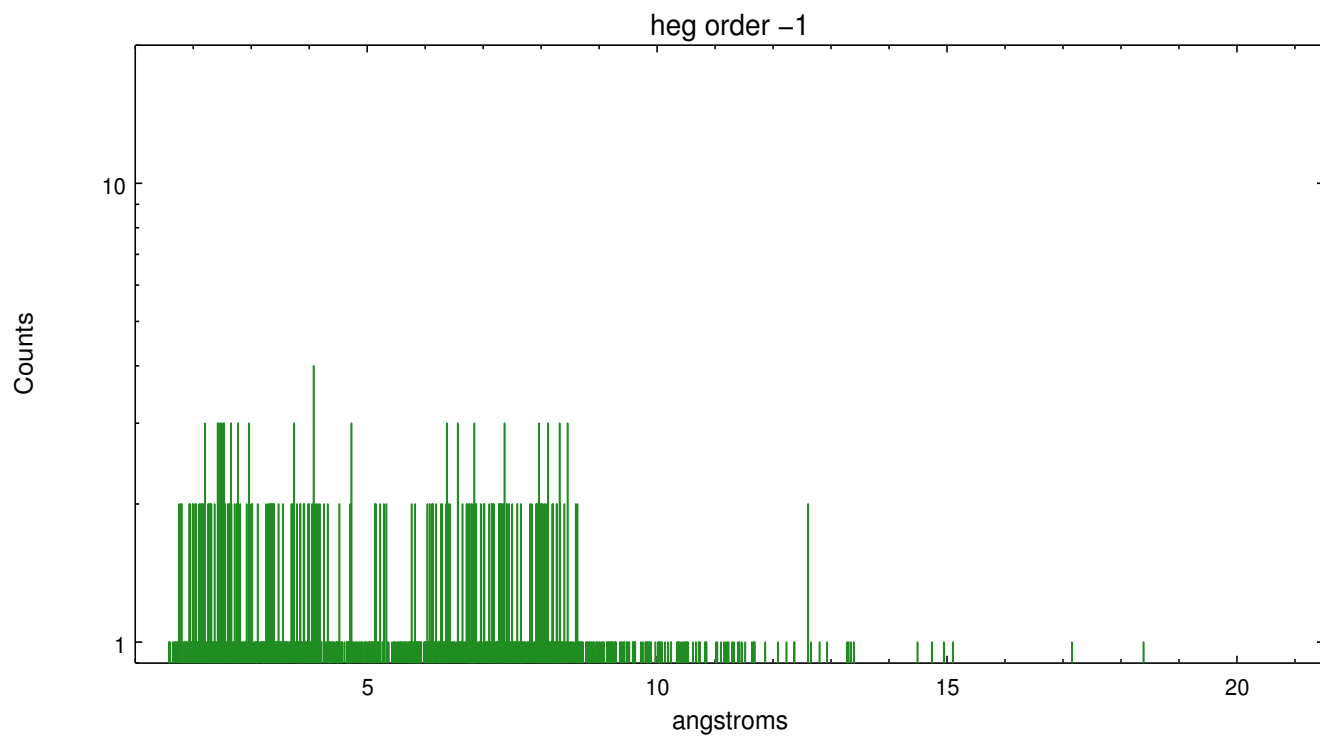
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	71	170	1327	2861	1185	103	56

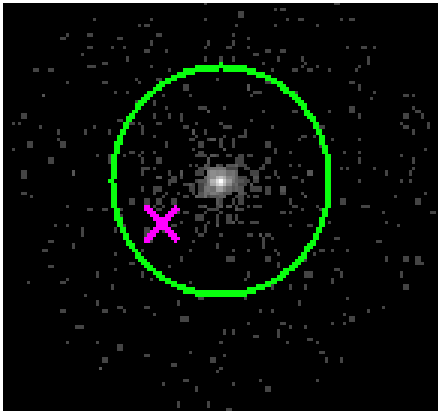




3.2 MEG Arm



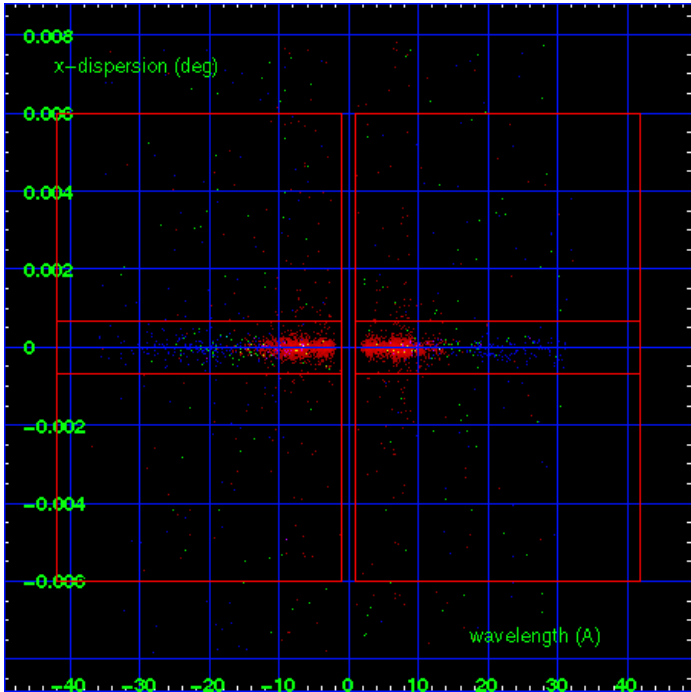
MEG Order Sort 123



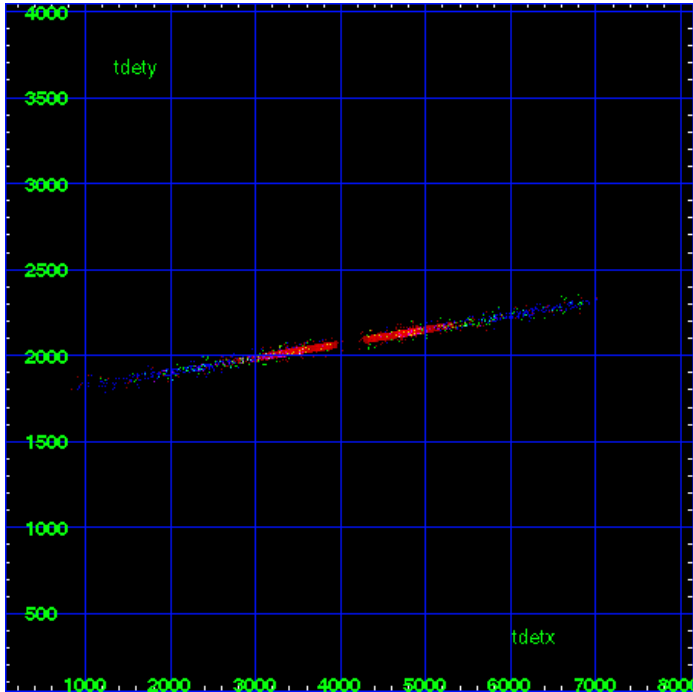
MEG Zero Order



MEG Order Sort ALL

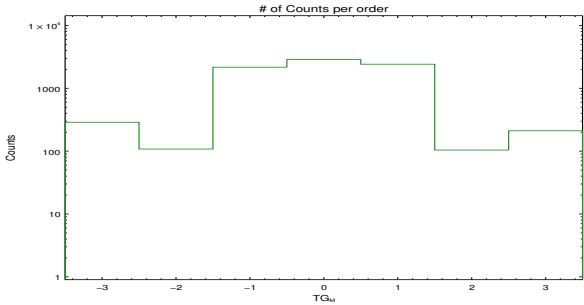


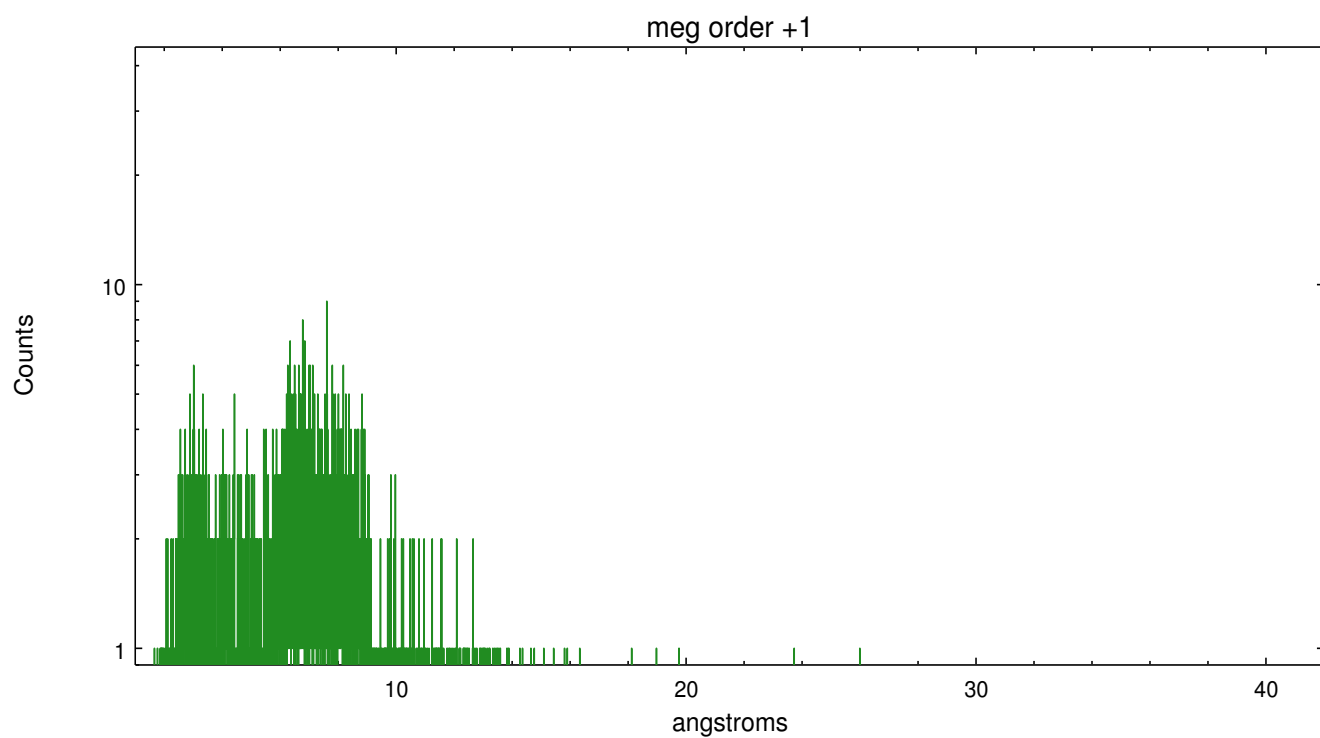
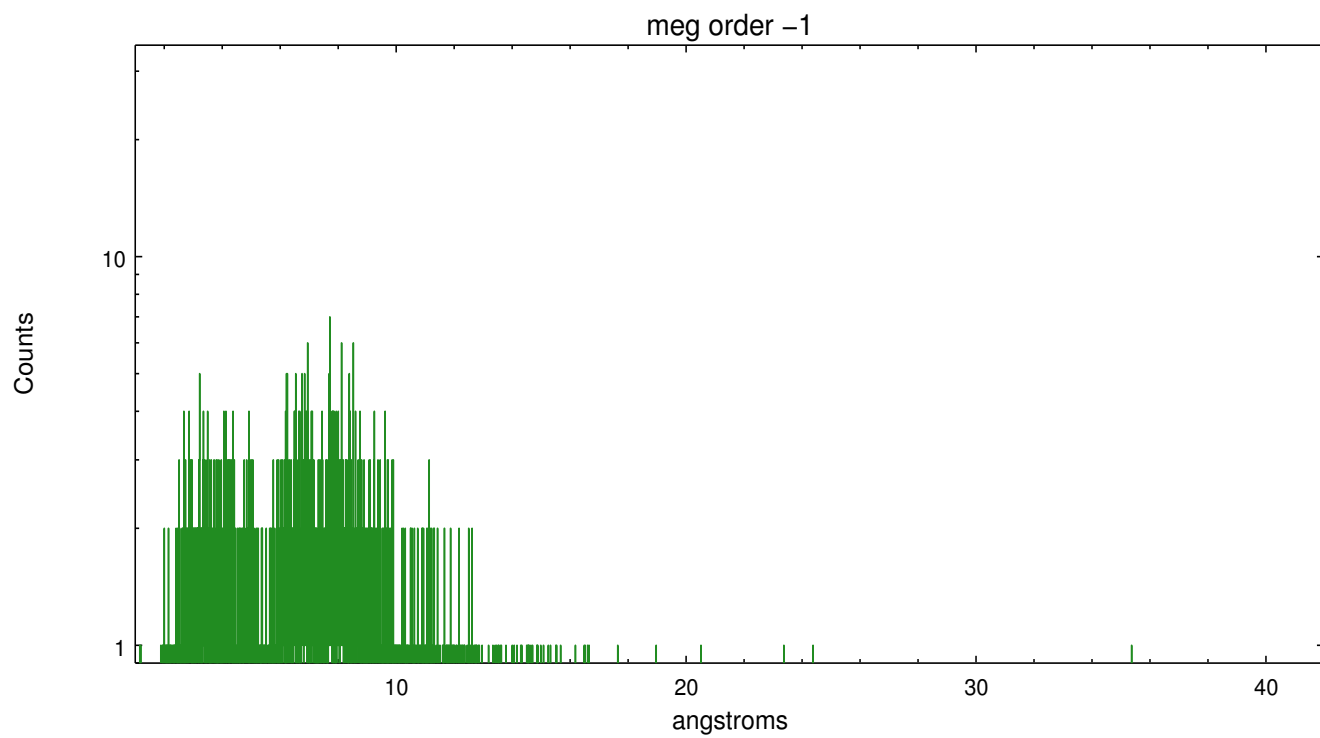
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	288	108	2165	2861	2416	104	211





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.665

A.2 Comments