

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7501 - L2 Version 3
Chandra X-Ray Center

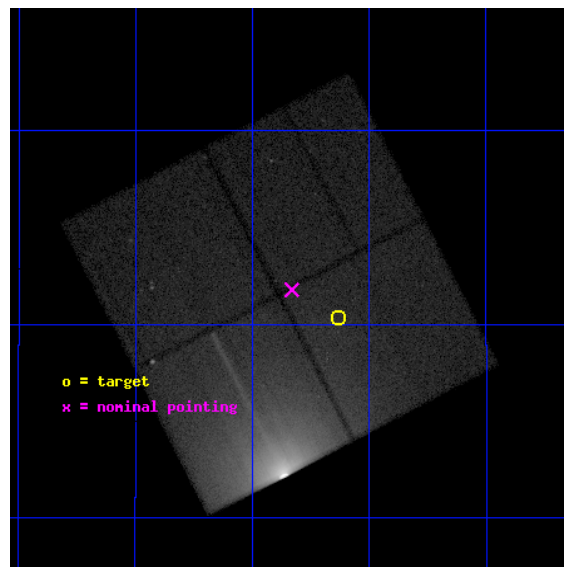
L2 Processing Date : Apr 21 2012

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1 Front

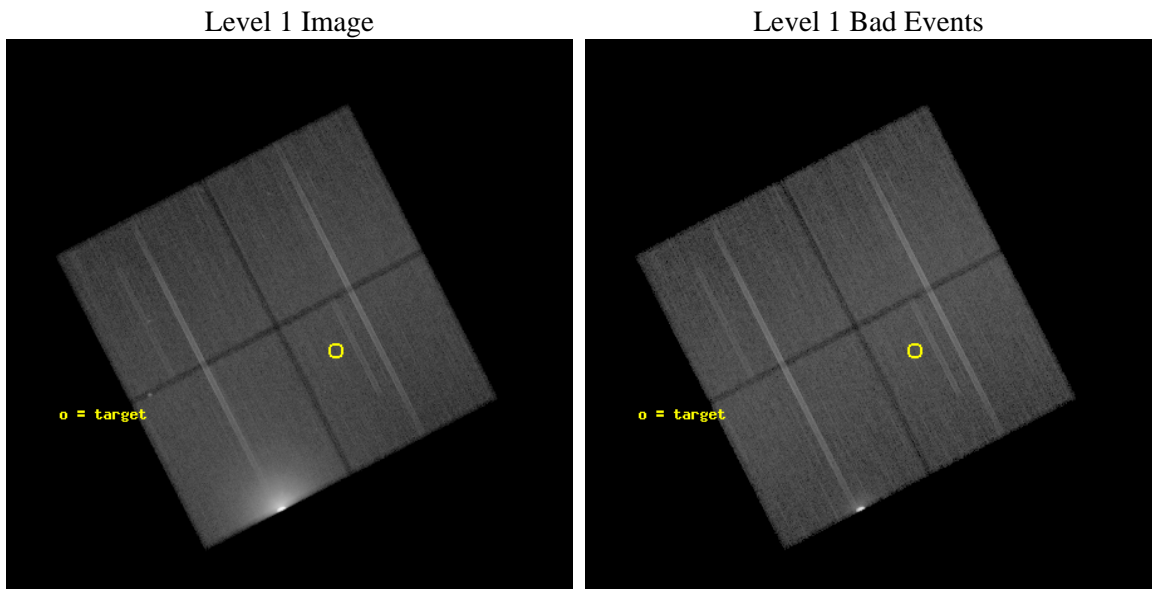
seq_num	400611	Sequence number
obs_id	7501	Observation id
title	The Ring of Fire: Constraining the jet power of Cygnus X-1 from its shocked shell.	Proposal title
observer	Dr. Sebastian Heinz	Principal investigator
object	Cygnus X-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	299.533333	Observer's specified target RA [deg]
dec_targ	35.339761	Observer's specified target Dec [deg]
ra_nom	299.5828339131	Nominal RA [deg]
dec_nom	35.363185207561	Nominal Dec [deg]
roll_nom	62.792321761095	Nominal Roll [deg]
revision	3	Processing version of data
ontime	46056.700354218	Sum of GTIs [s]
livetime	45454.935657641	Livetime [s]
ontime0	46056.700354218	Sum of GTIs [s]
ontime1	46056.700354218	Sum of GTIs [s]
ontime2	46056.700354218	Sum of GTIs [s]
ontime3	46056.700354218	Sum of GTIs [s]
l2events	932991	Number of level 2 events



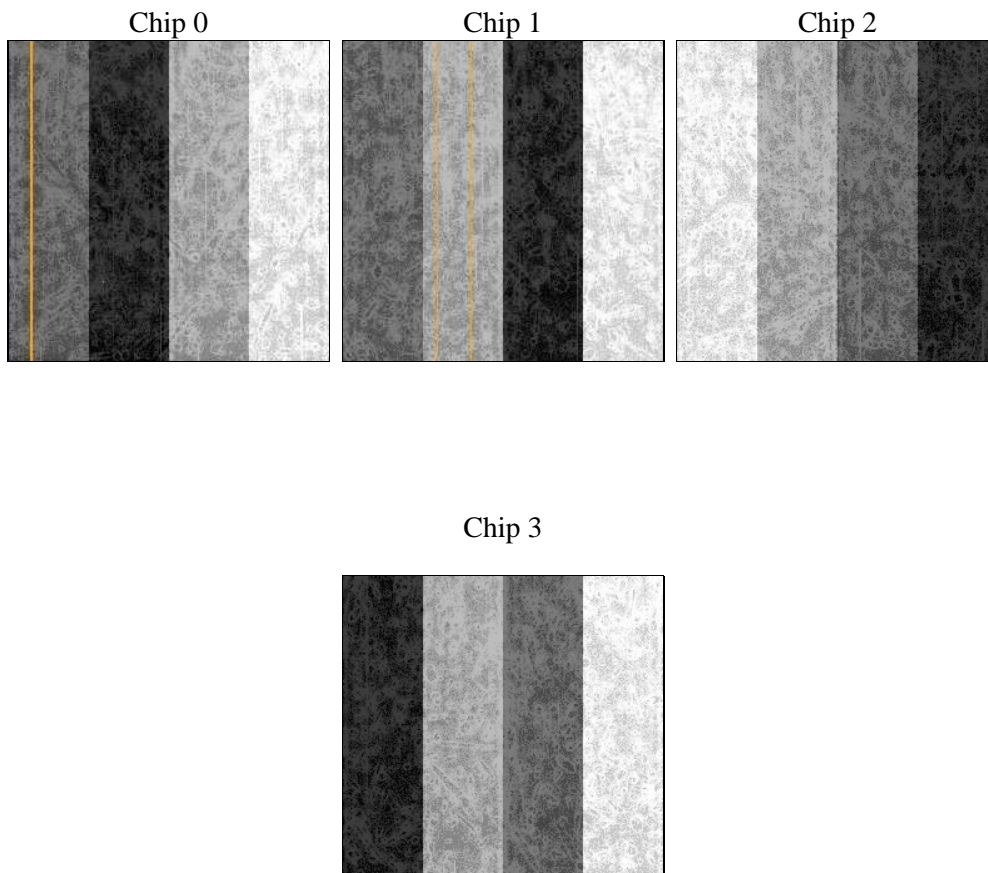
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	46000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	46056.700354218	Sum of GTIs [s]
caldbver	4.4.9	 	ontime0	46056.700354218	Sum of GTIs [s]
date	2012-04-21T15:23:30	Date and time of file creation	ontime1	46056.700354218	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	46056.700354218	Sum of GTIs [s]
			ontime3	46056.700354218	Sum of GTIs [s]
			l1events	2518509	Number of level 1 events

2.1.4 Events

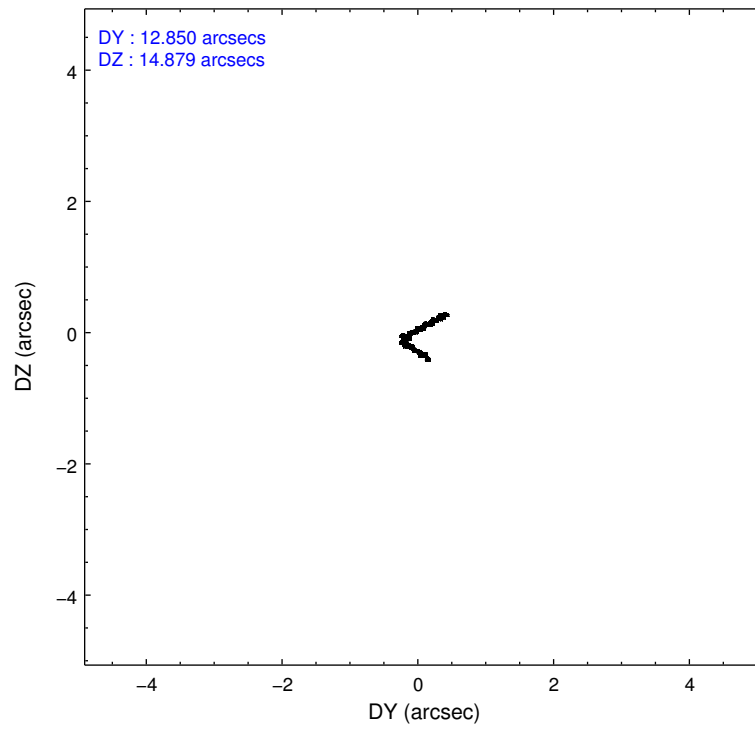
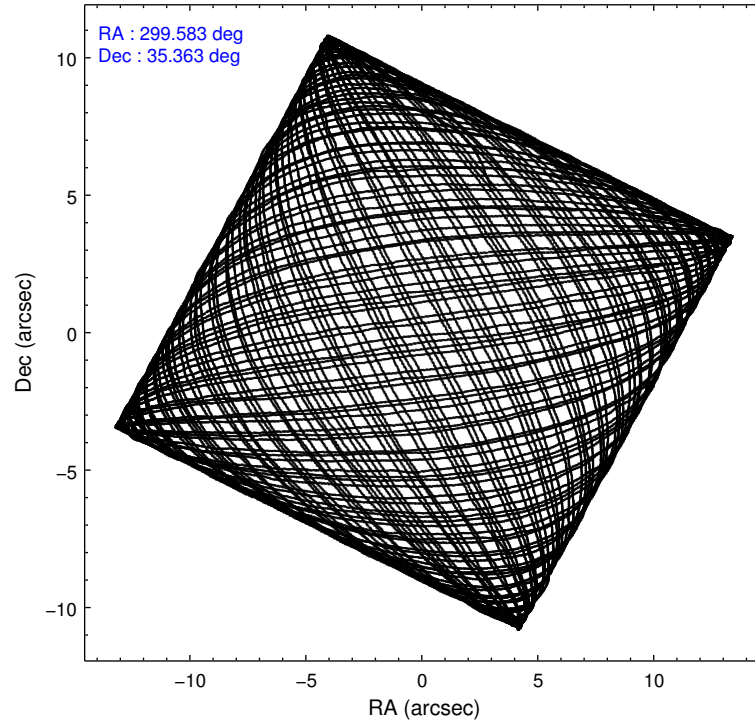
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	410159	1206564	437321	464465
rejected events	341133	415783	375421	371947
rejected %	83%	34%	85%	80%

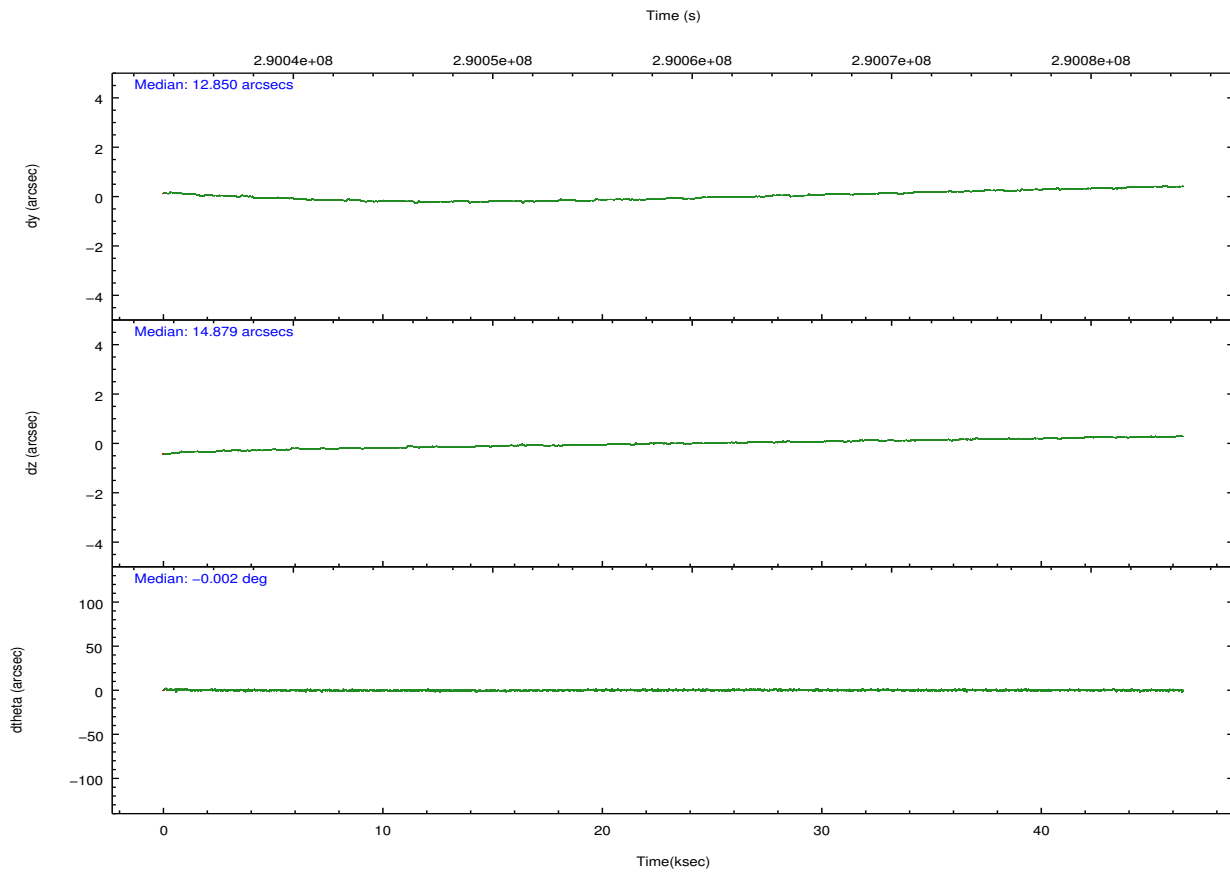
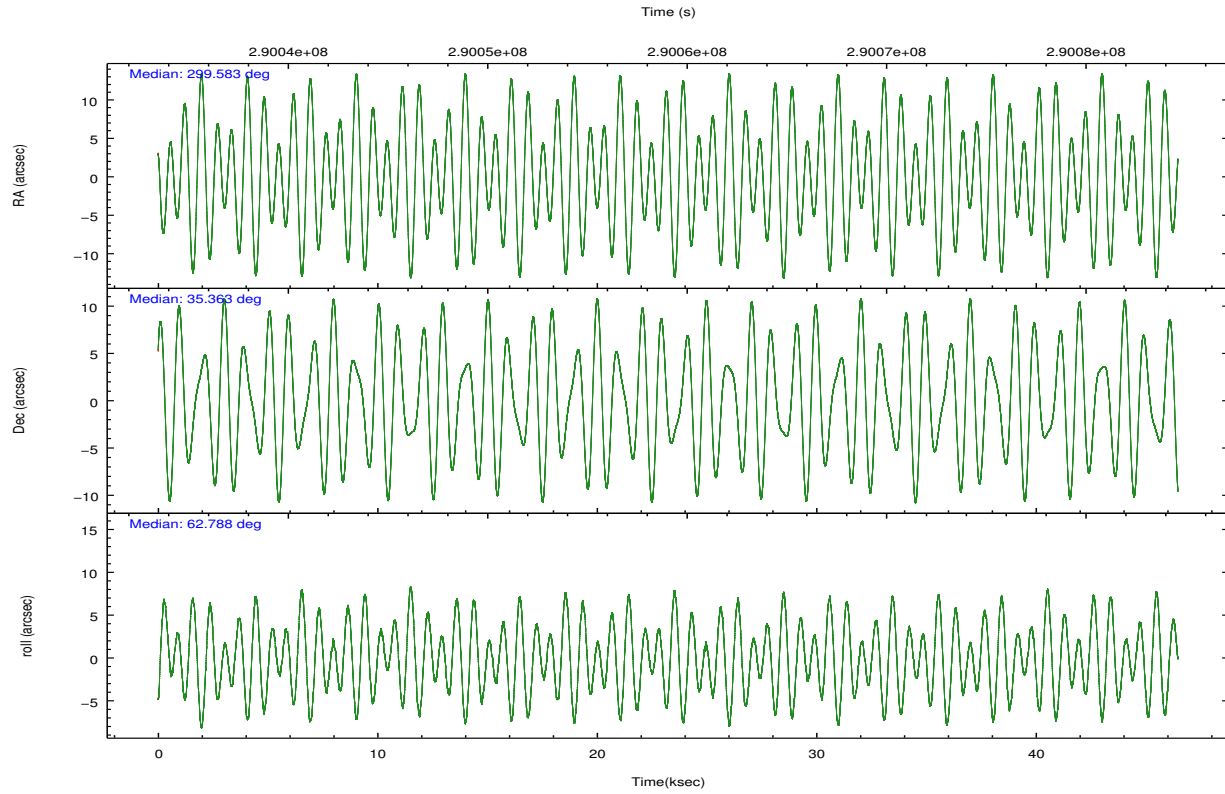
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	35272	568809	31165	54571
	8%	47%	7%	11%
grade 1 events	344	20368	341	483
	0%	1%	0%	0%
grade 2 events	13351	102543	11804	14885
	3%	8%	2%	3%
grade 3 events	5472	36214	4914	6423
	1%	3%	1%	1%
grade 4 events	5359	35947	5029	6185
	1%	2%	1%	1%
grade 5 events	17526	36051	17087	19894
	4%	2%	3%	4%
grade 6 events	9581	47396	9002	10467
	2%	3%	2%	2%
grade 7 events	323254	359236	357979	351557
	78%	29%	81%	75%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	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	299.584616	299.582833913097	Subarray requested	NONE	NONE
[deg] Pointing Dec	35.335722	35.36318520756105	Alternating exposures requested	N	N
[deg] Pointing Roll	62.582612	62.79232176109456	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	290036262.184000	290035250.97918			
Observation start date	2007-03-11T21:36:37	2007-03-11T21:20:50			
[s] Observation end time (MET)	290082262.184000	290082628.53143			
Observation end date	2007-03-12T10:23:17	2007-03-12T10:30:28			
Read mode	TIMED	TIMED			

2.3 Aspect



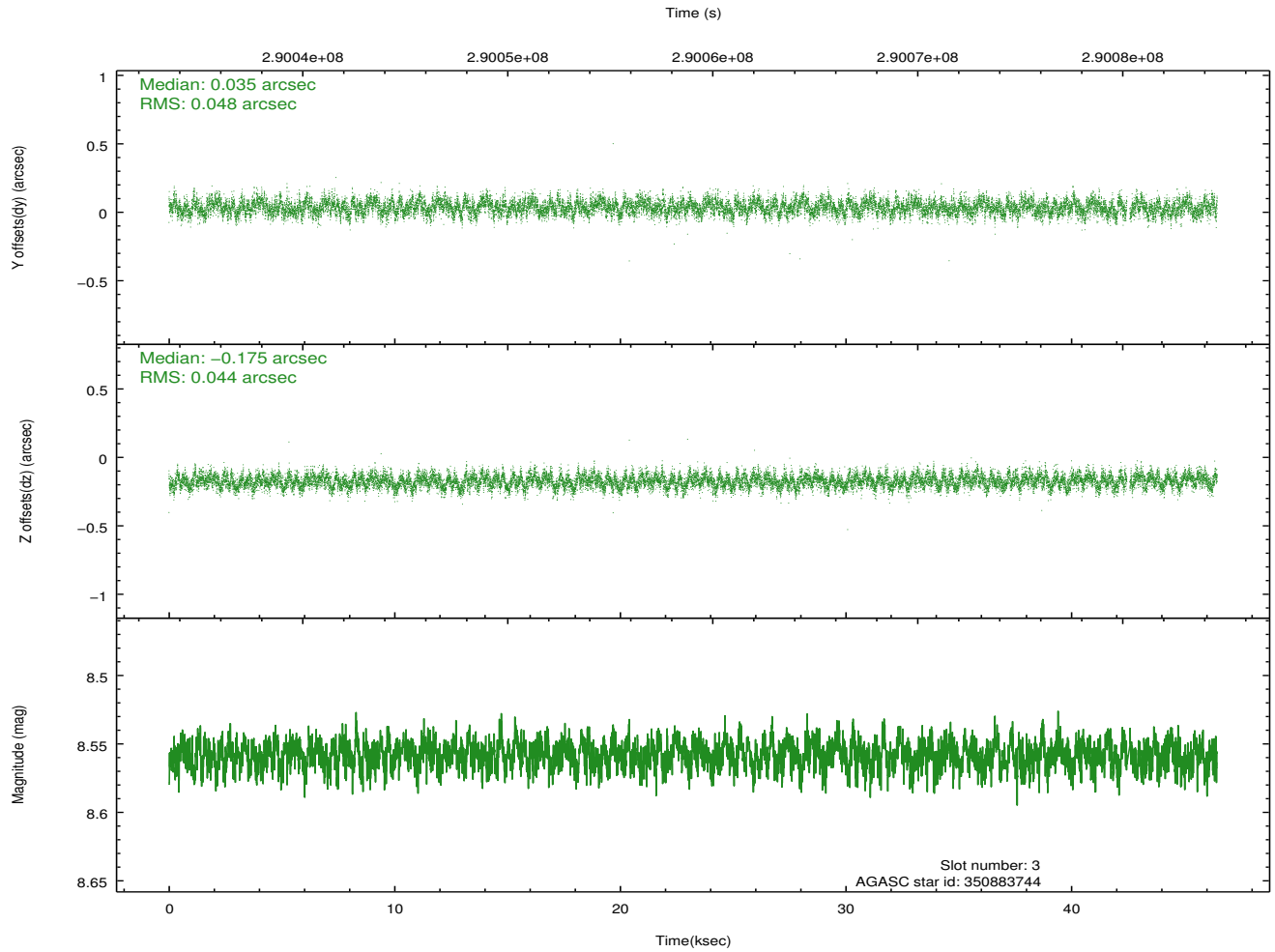
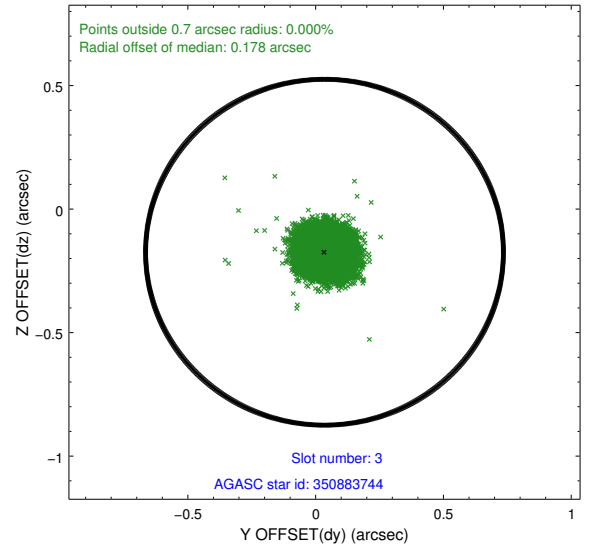
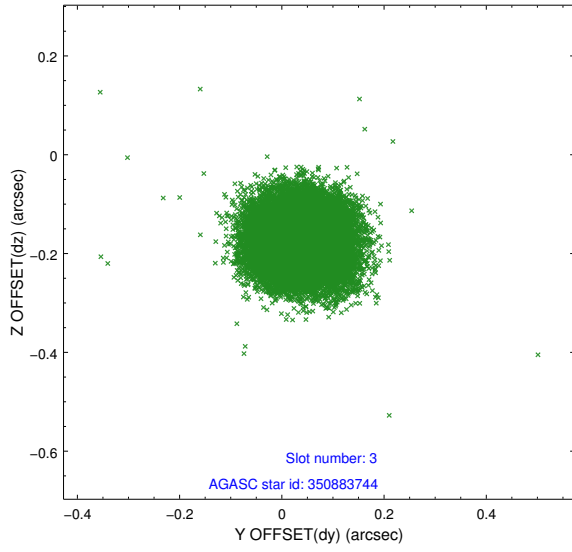


Slot Statistics

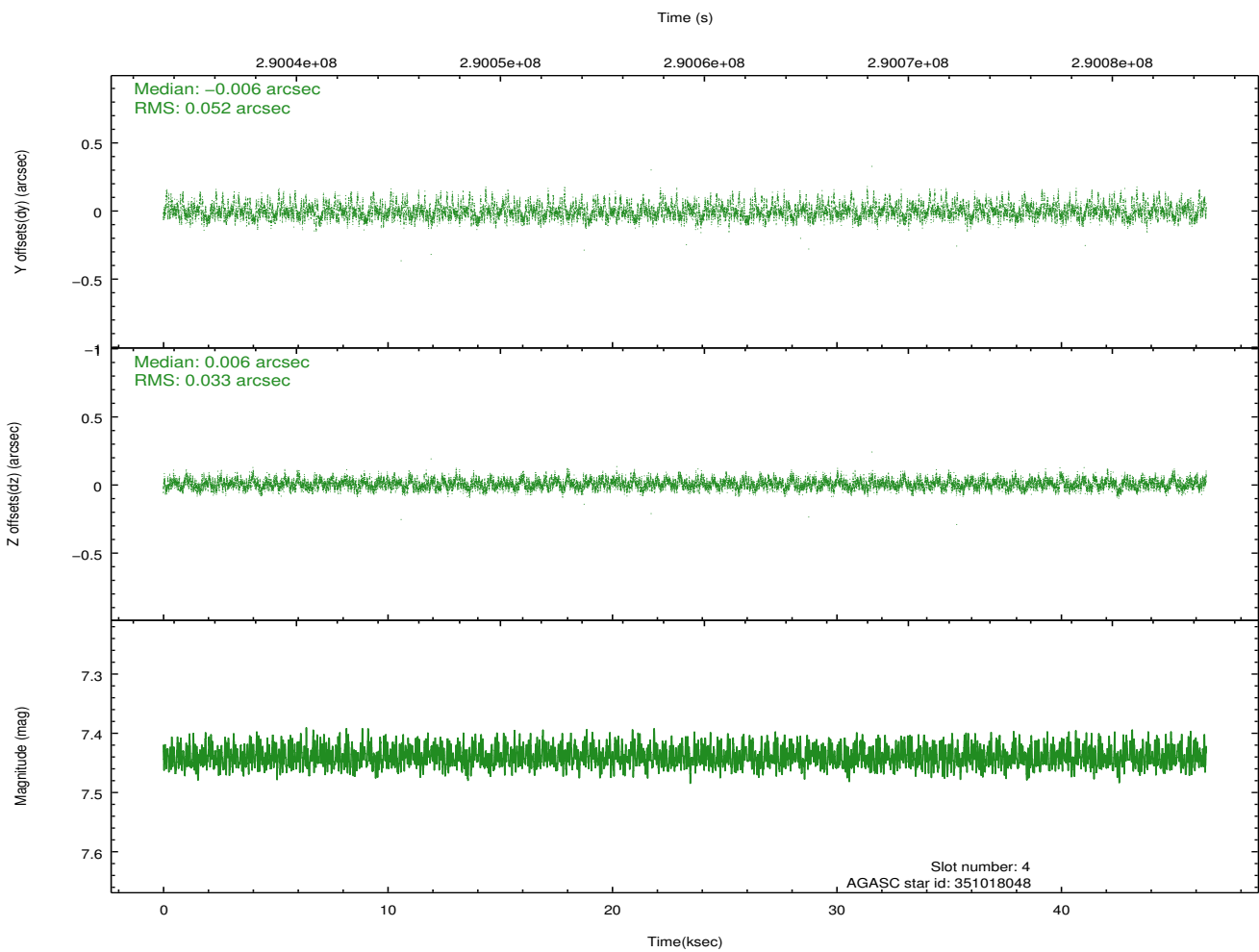
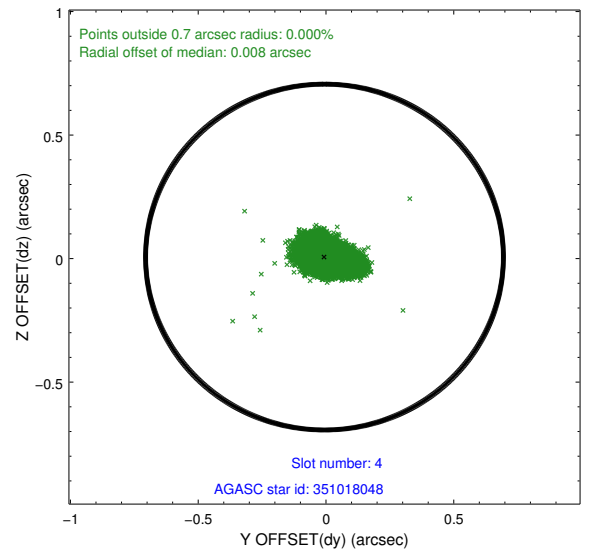
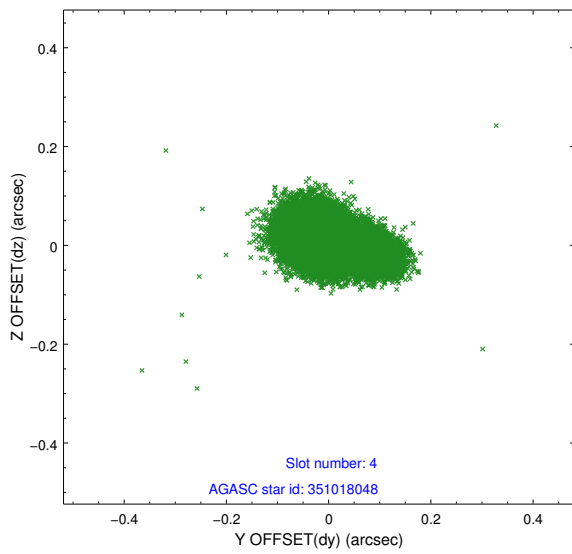
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.22	11332	-0.023	0.002	0.015	0.028	0.000000	0.000000	926.61	-838.46
1	FID	ACIS-I-4	7.17	11333	0.181	0.033	0.010	0.018	0.000000	0.000000	2146.87	1061.37
2	FID	ACIS-I-5	7.22	11334	-0.257	0.035	0.010	0.017	0.000000	0.000000	-1821.62	1059.24
3	GUIDE	350883744	8.56	22581	0.035	-0.175	0.070	0.112	298.704367	35.005535	-2240.26	1761.93
4	GUIDE	351018048	7.44	22665	-0.006	0.006	0.063	0.112	299.715174	35.497760	694.44	-70.66
5	GUIDE	351550592	7.46	22662	-0.155	0.048	0.063	0.102	300.511890	35.641112	2236.64	-1895.60
6	GUIDE	351014072	8.33	22656	0.093	0.069	0.059	0.094	299.502600	34.724591	-2064.21	-797.54
7	GUIDE	351029968	8.33	22660	0.029	0.054	0.056	0.090	299.542339	34.721380	-2020.65	-907.23

2.4 Star Slots

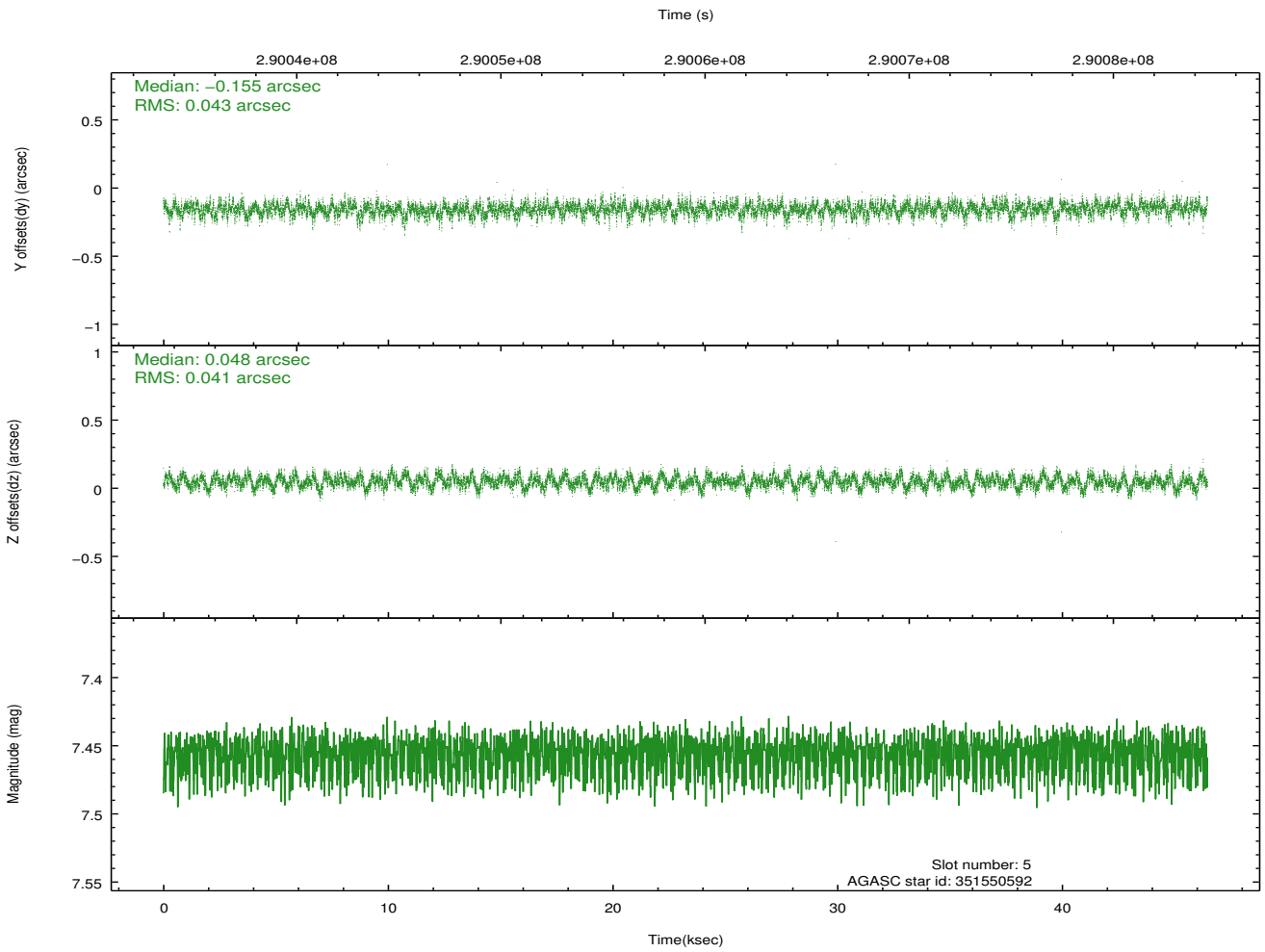
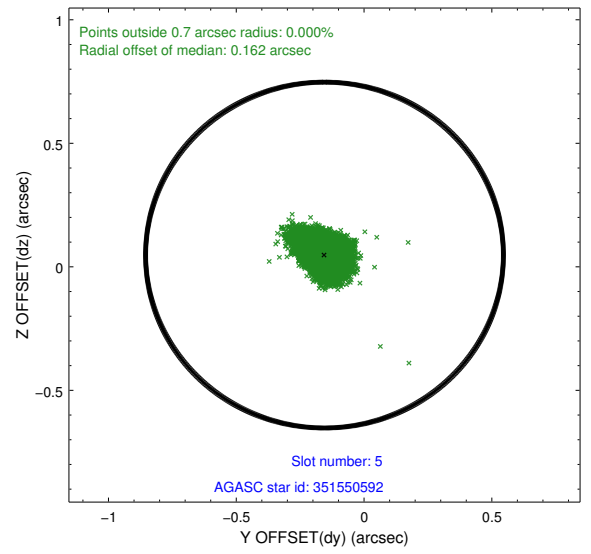
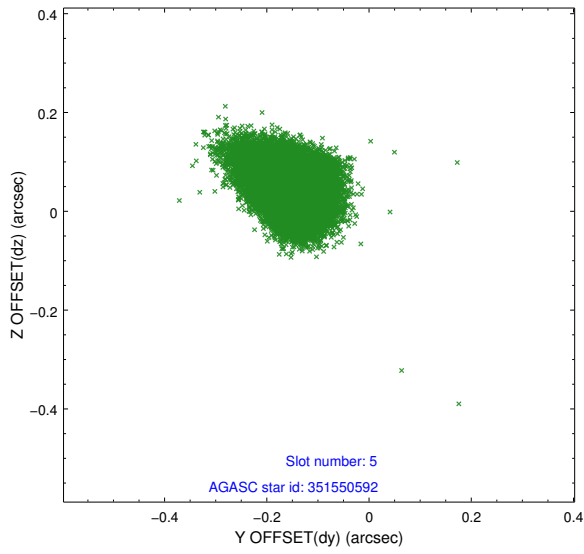
2.4.1 Slot 3



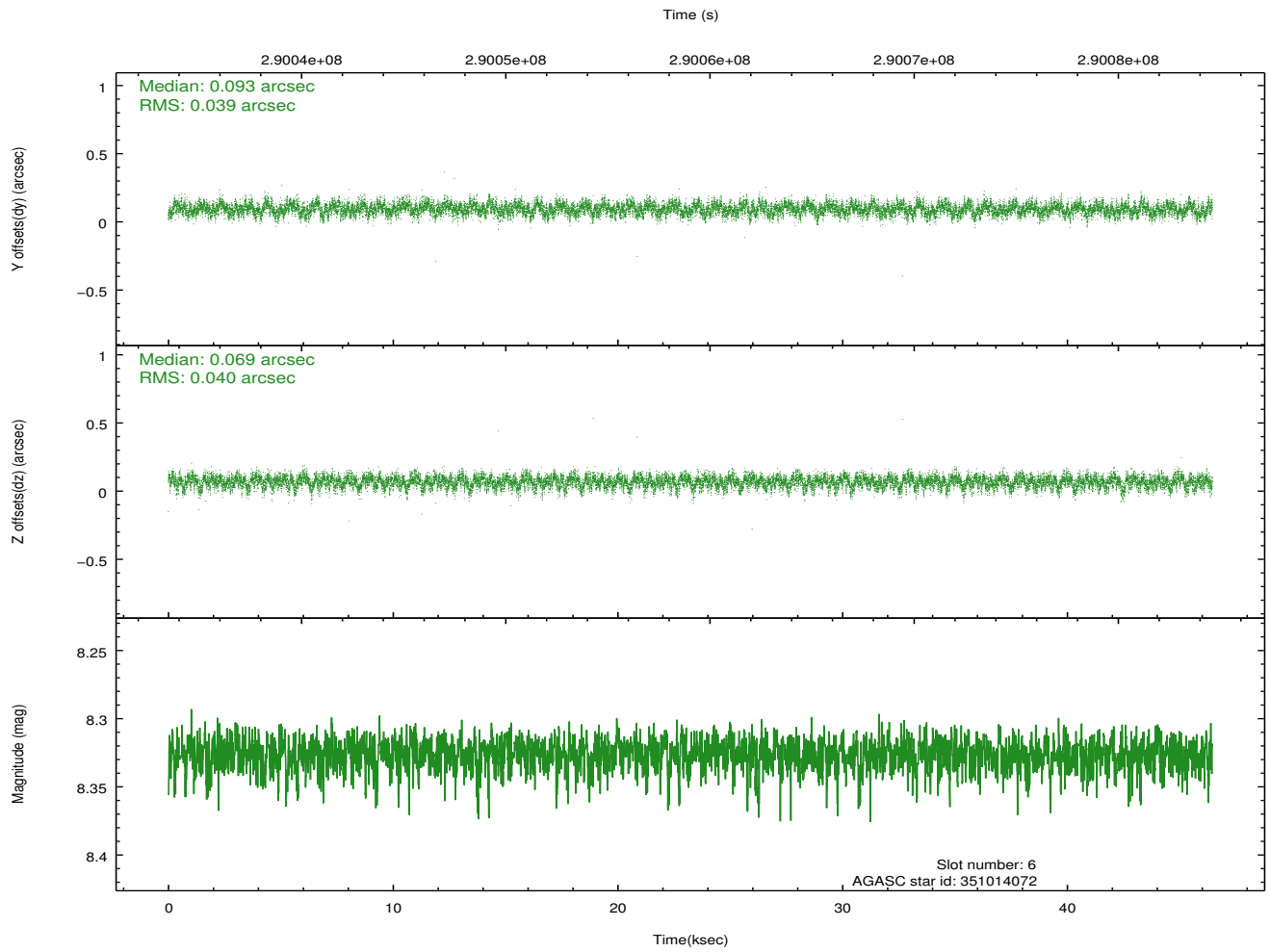
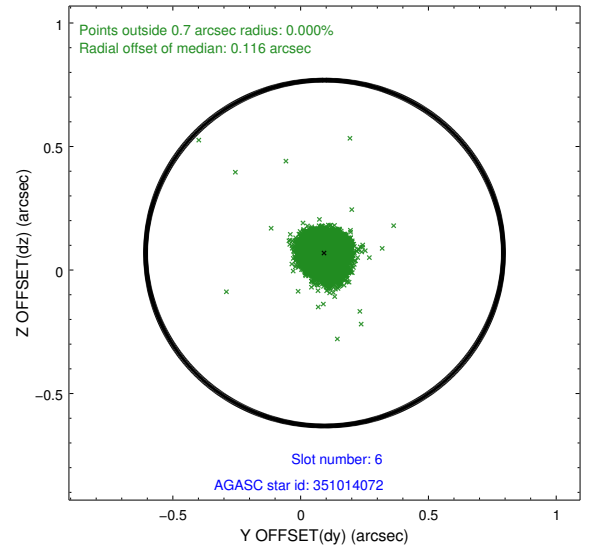
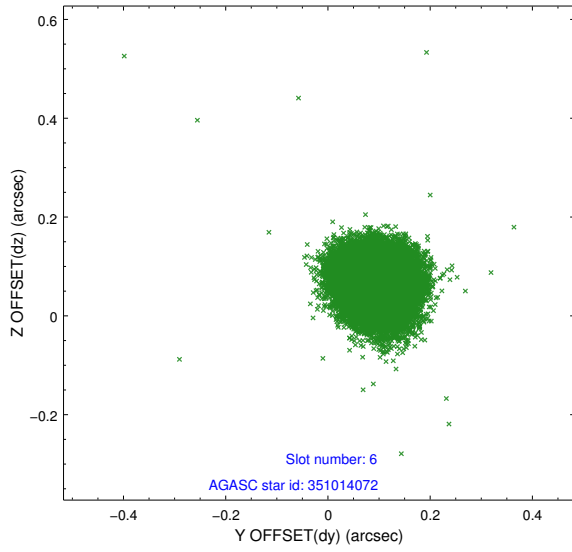
2.4.2 Slot 4



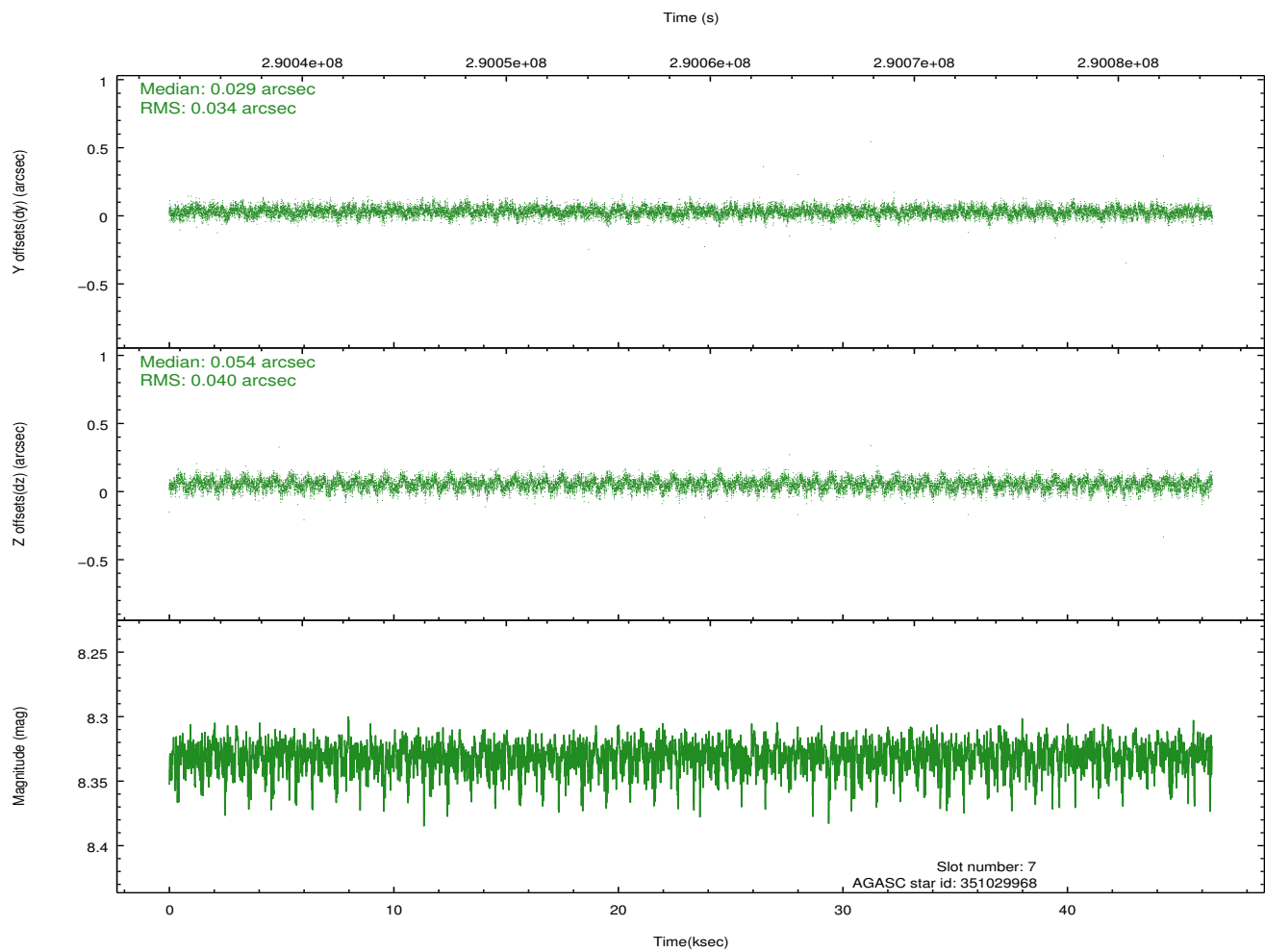
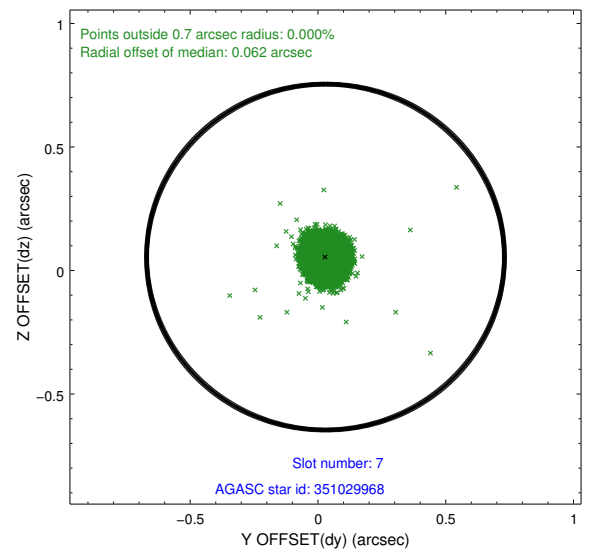
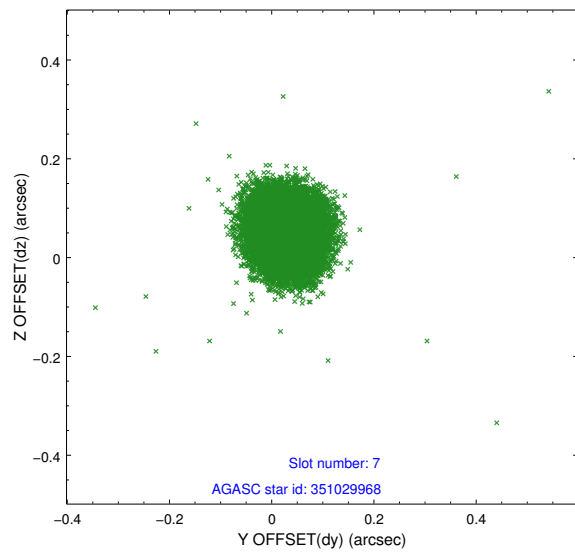
2.4.3 Slot 5



2.4.4 Slot 6

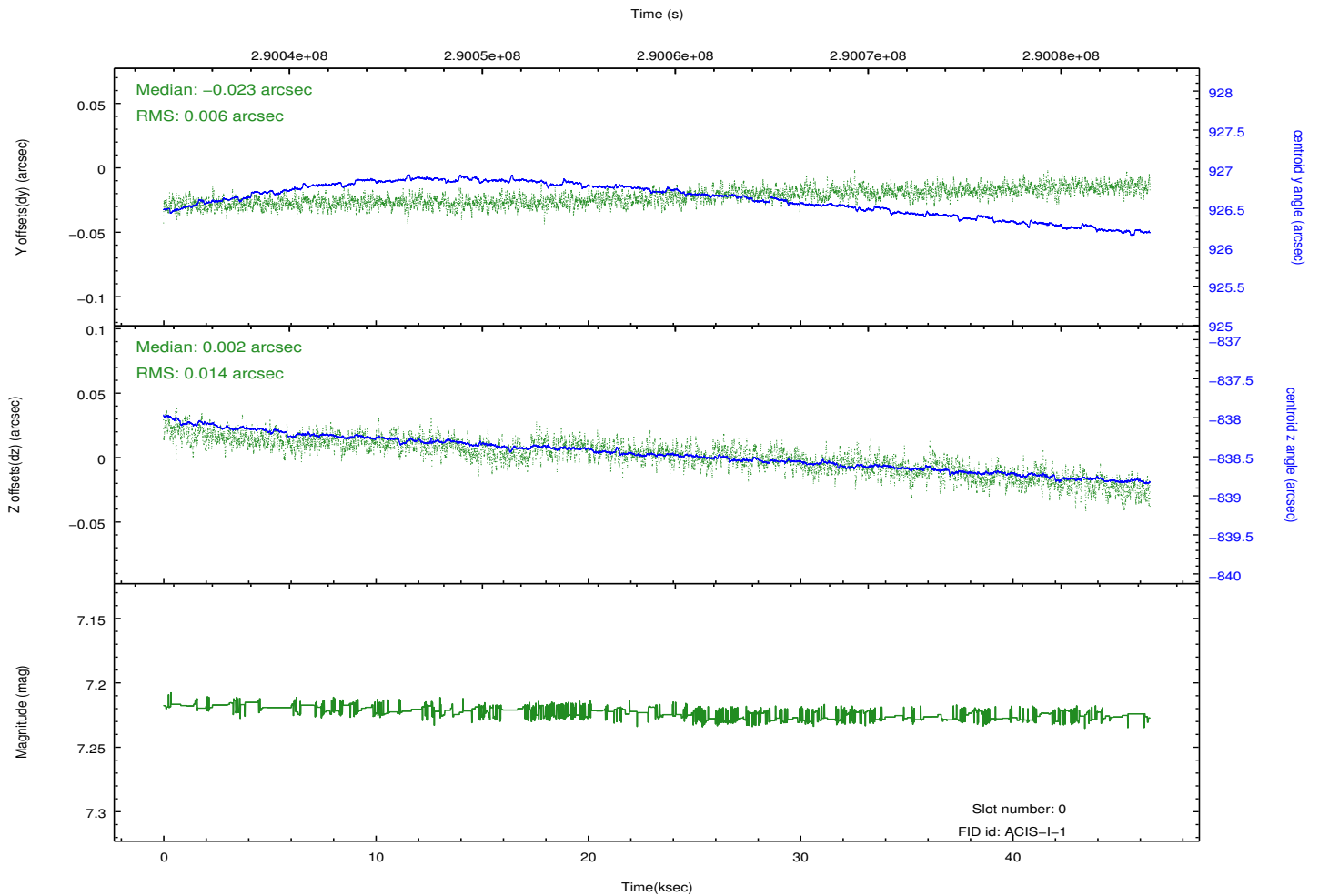
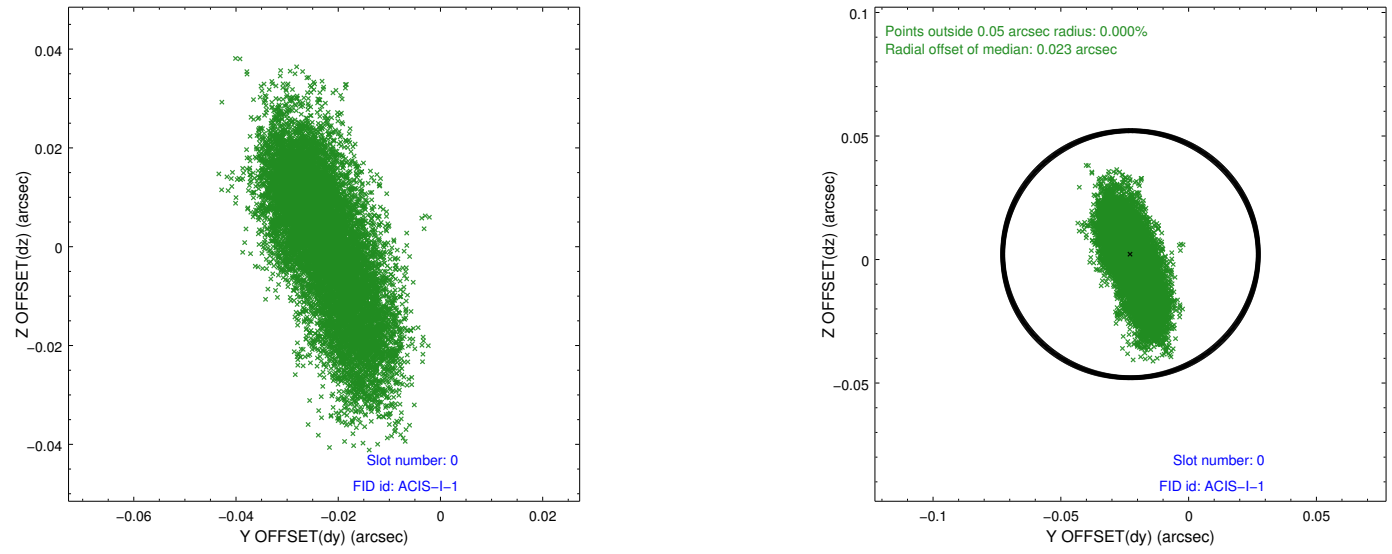


2.4.5 Slot 7

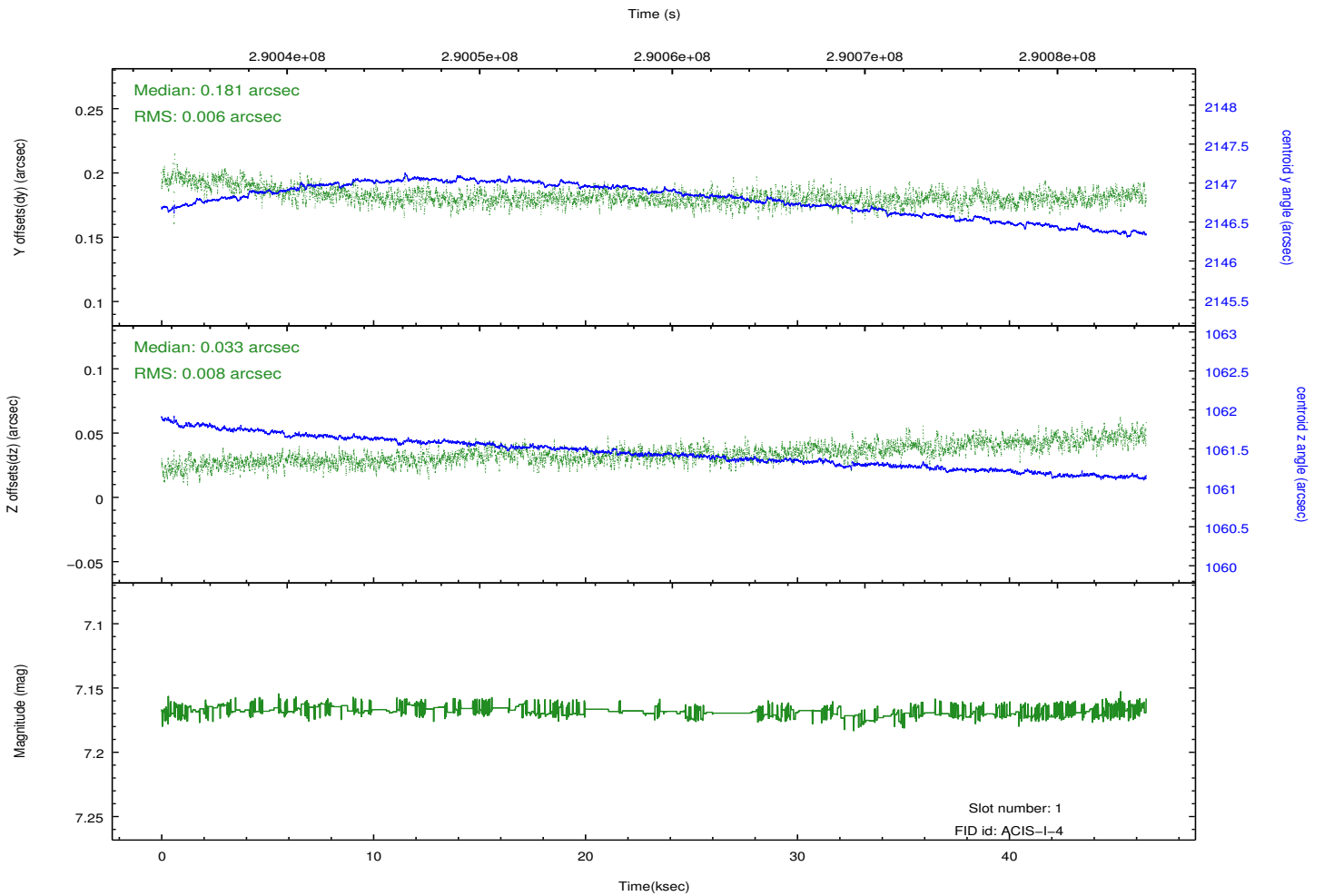
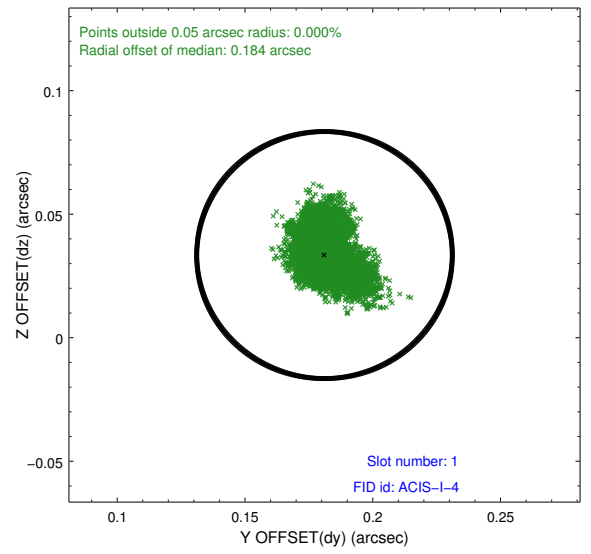
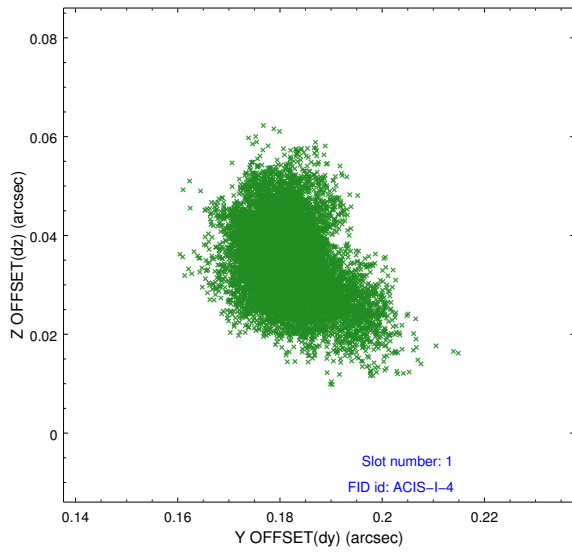


2.5 FID Slots

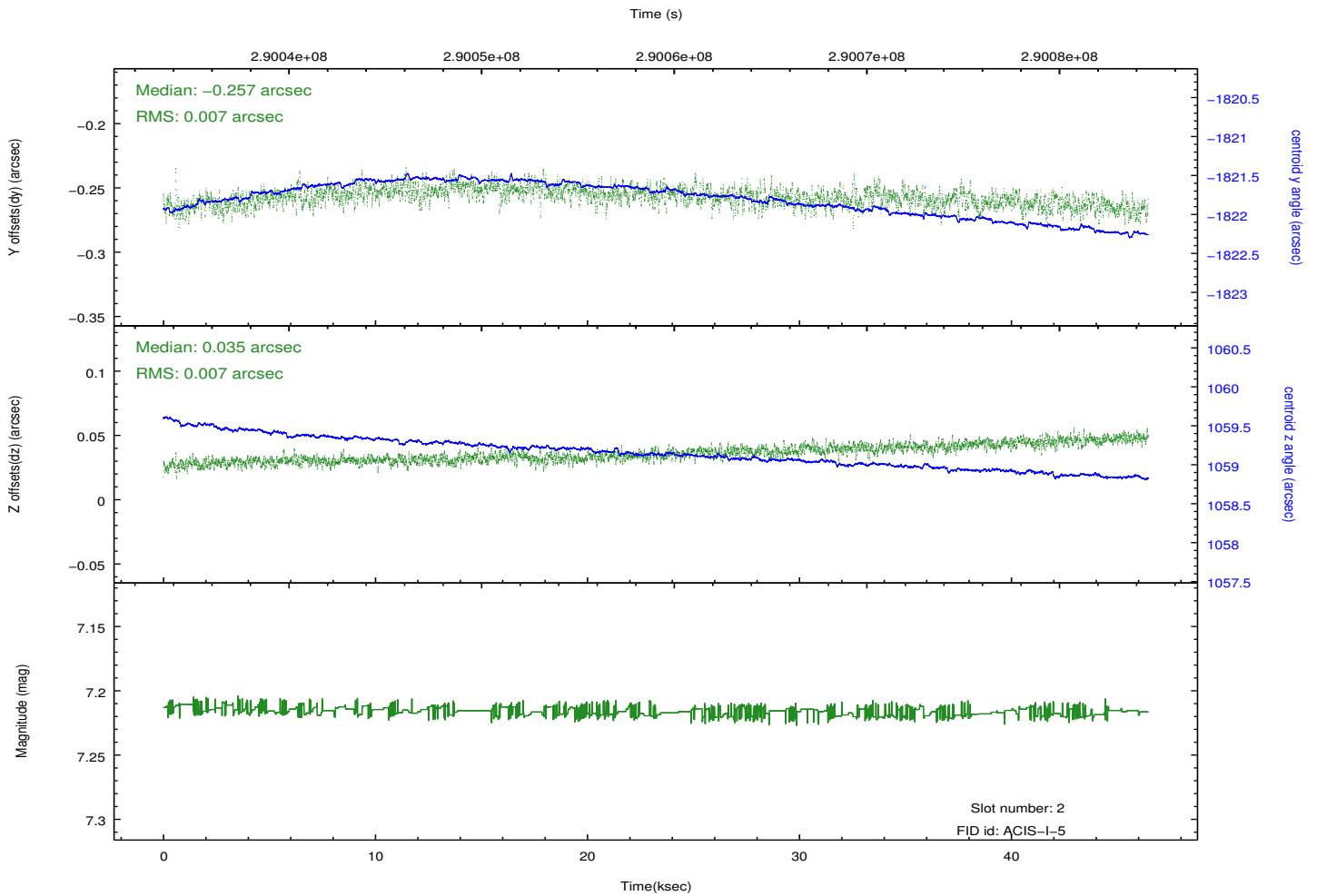
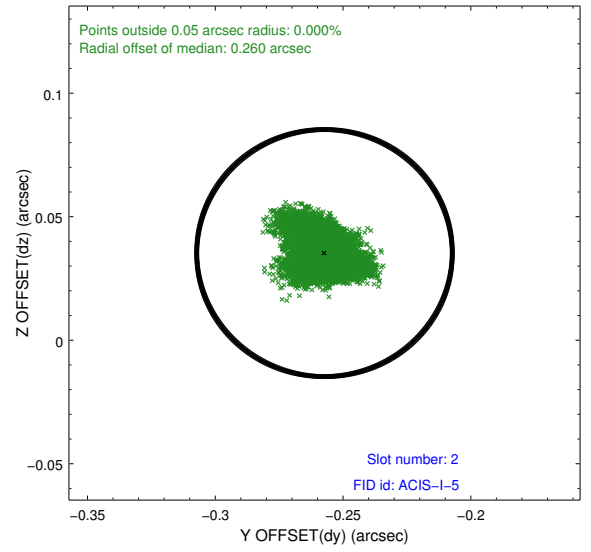
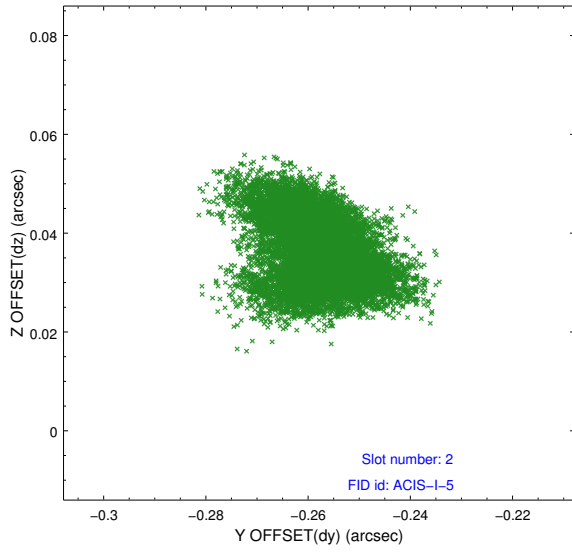
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.04.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.0567003

A.2 Comments

Joint proposal with RXTE.