

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14037 - L2 Version 2
Chandra X-Ray Center

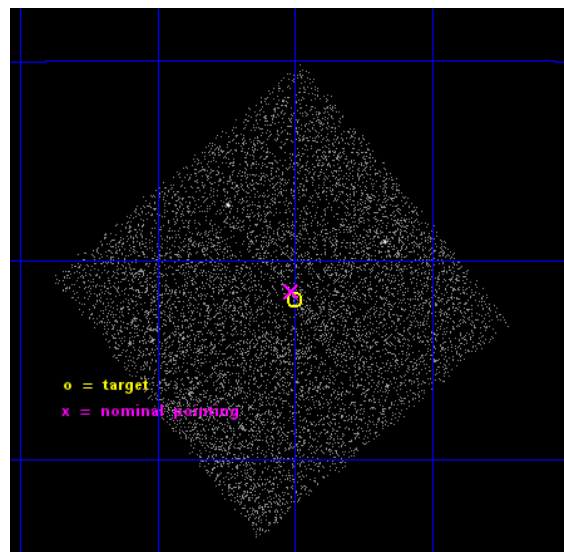
L2 Processing Date : Nov 28 2014

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1 Front

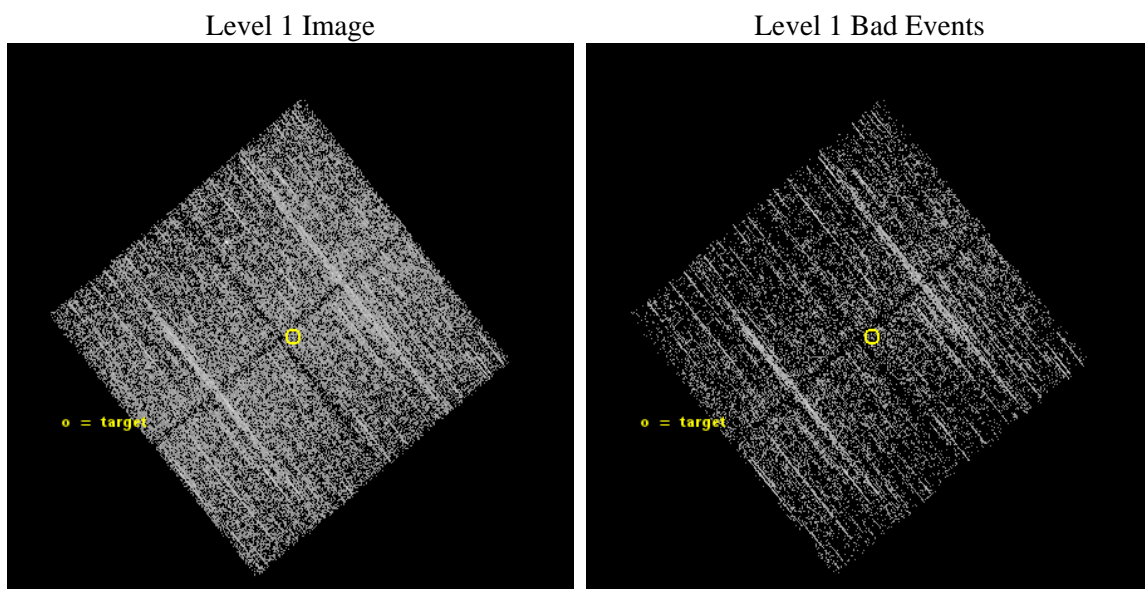
seq_num	901003	Sequence number
obs_id	14037	Observation id
title	BAT, Chandra, NuSTAR and The origin of the Cosmic X-ray Background	
observer	Dr. Marco Ajello	Principal investigator
object	J0252.0-1642	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	43.0	Observer's specified target RA [deg]
dec_targ	-16.7	Observer's specified target Dec [deg]
ra_nom	43.003148004665	Nominal RA [deg]
dec_nom	-16.69258290554	Nominal Dec [deg]
roll_nom	50.540319282717	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5089.6963531971	Sum of GTIs [s]
livetime	5023.1957233626	Livetime [s]
ontime0	5089.5732331872	Sum of GTIs [s]
ontime1	5089.6142731905	Sum of GTIs [s]
ontime2	5089.6553131938	Sum of GTIs [s]
ontime3	5089.6963531971	Sum of GTIs [s]
l2events	10507	Number of level 2 events



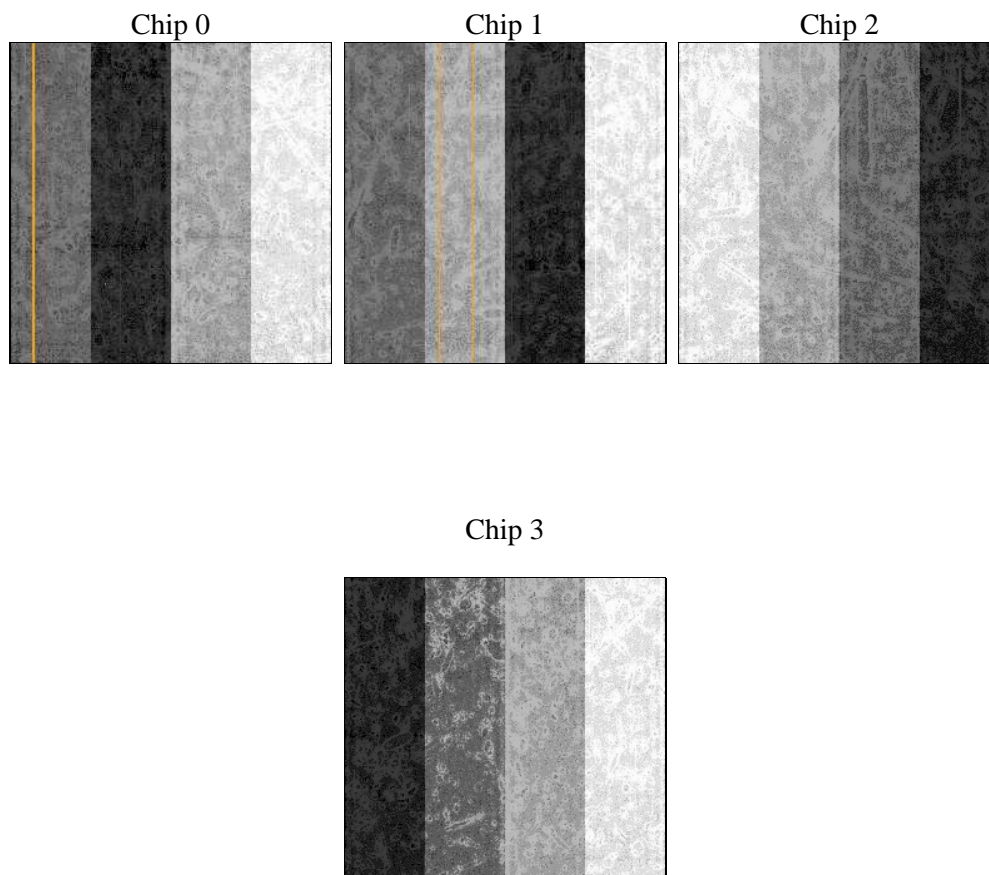
2 OBI

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	10.3	Processing system revision	ontime	5089.6963531971	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	5089.5732331872	Sum of GTIs [s]
date	2014-11-28T10:14:54	Date and time of file creation	ontime1	5089.6142731905	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5089.6553131938	Sum of GTIs [s]
			ontime3	5089.6963531971	Sum of GTIs [s]
			l1events	97639	Number of level 1 events

2.1.4 Events

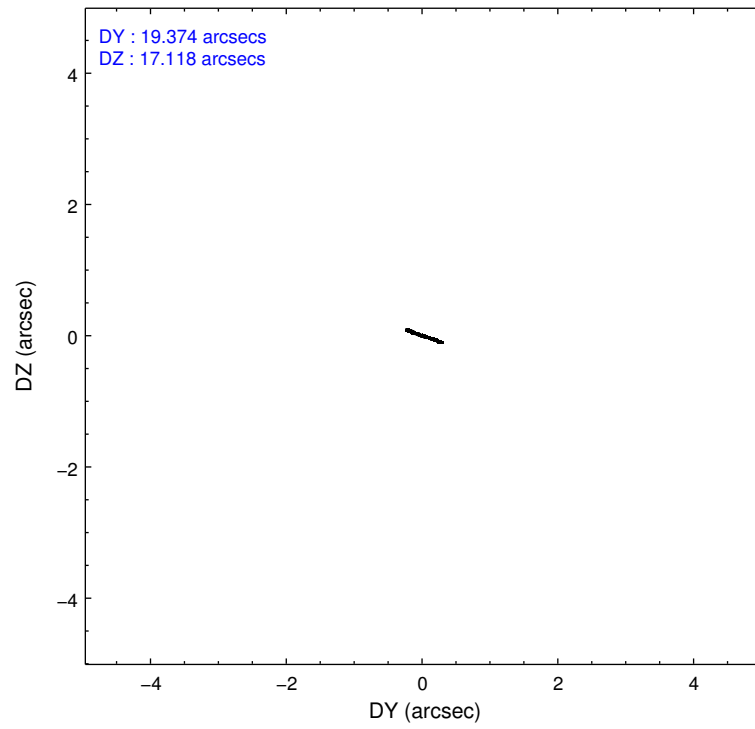
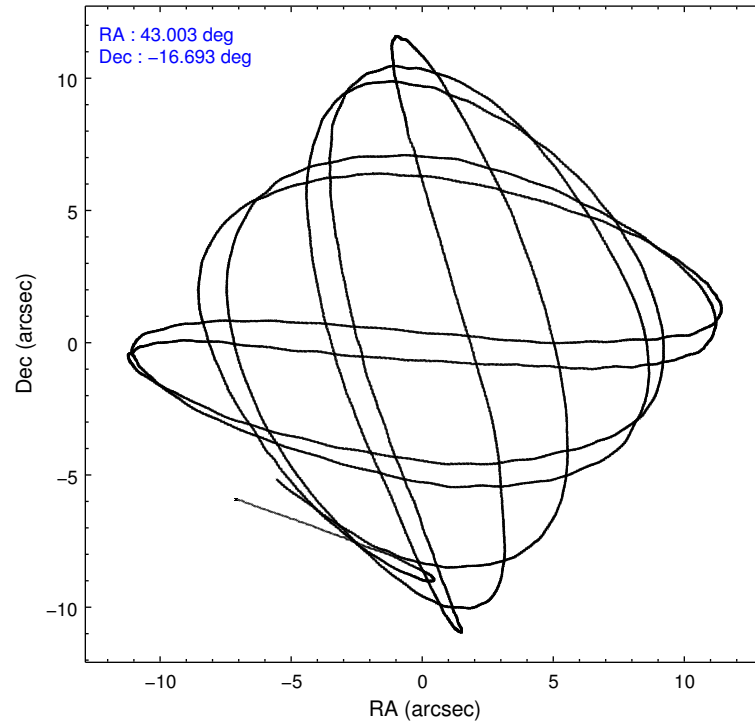
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	23021	23867	25117	25634
rejected events	19903	20577	22052	22619
rejected %	86%	86%	87%	88%

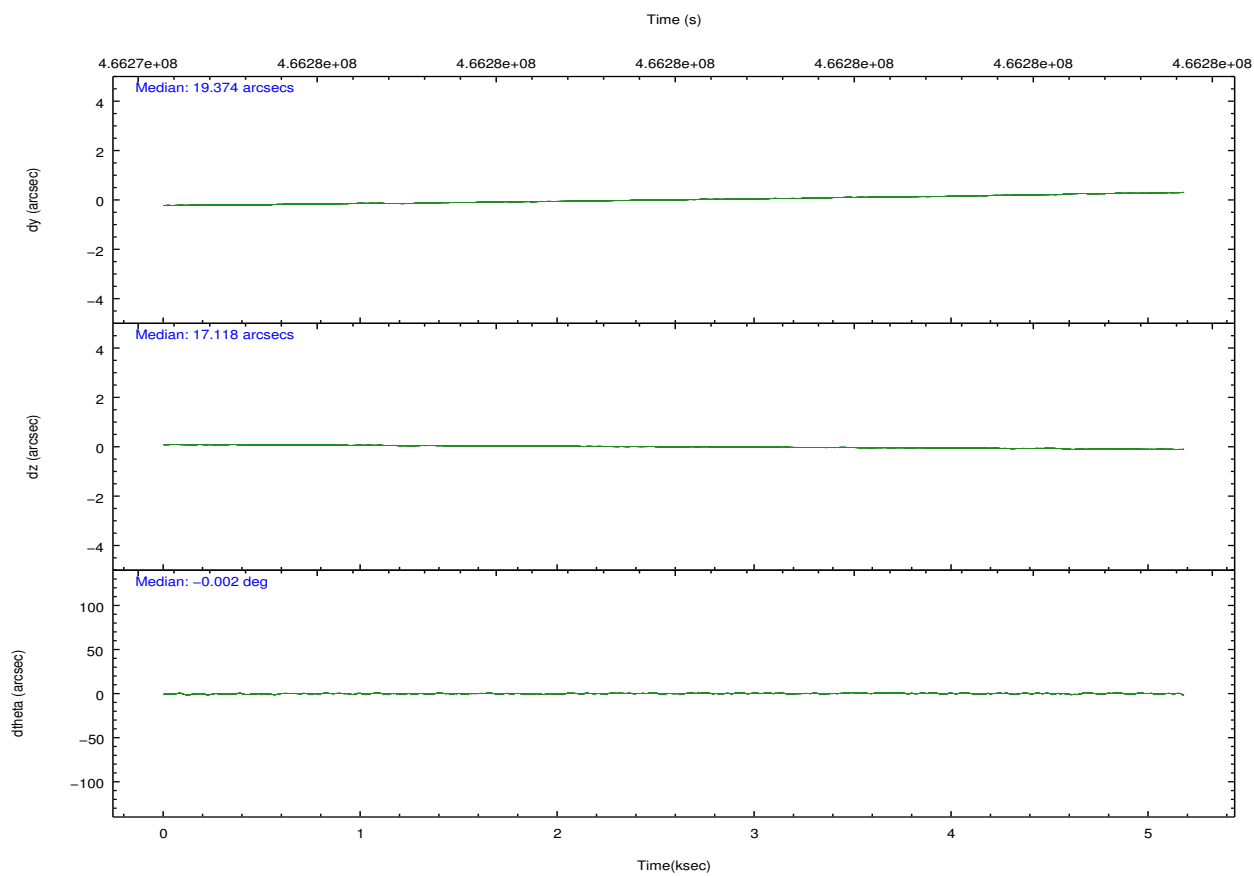
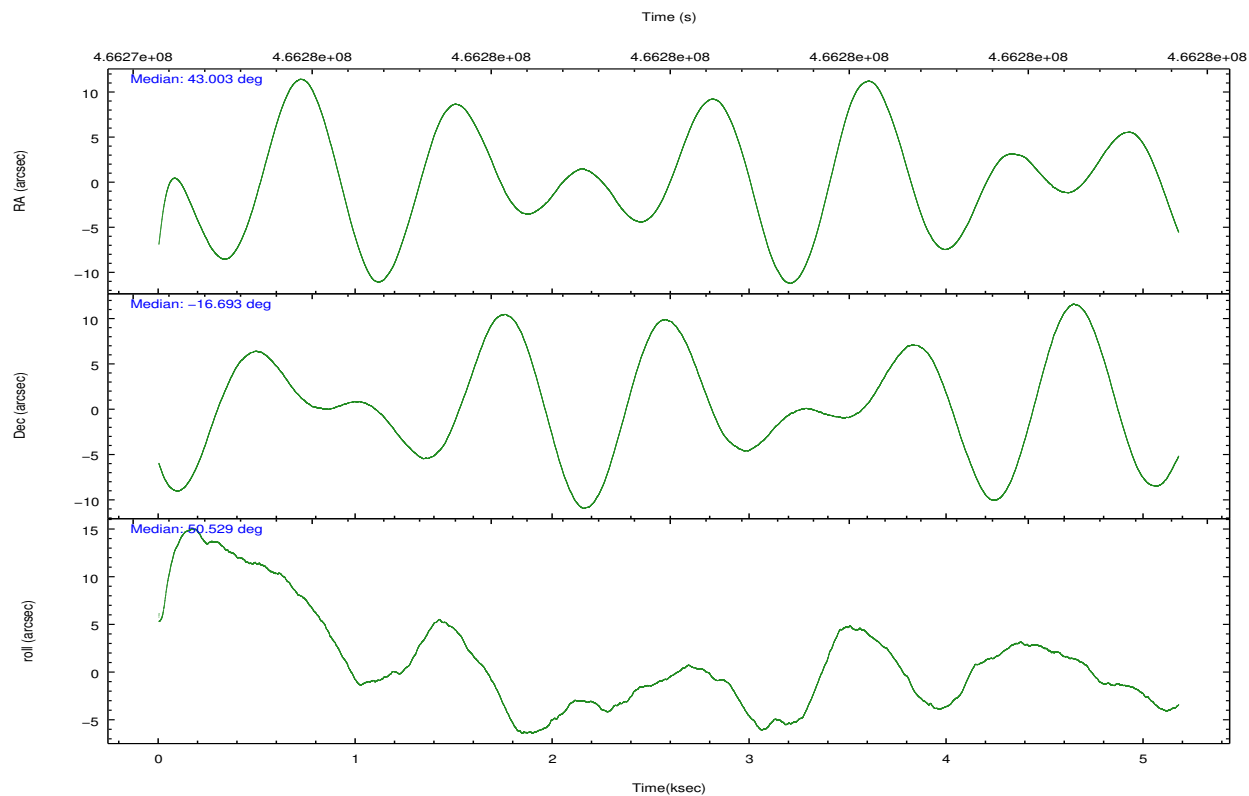
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1089	1113	1202	1086
	4%	4%	4%	4%
grade 1 events	13	11	20	13
	0%	0%	0%	0%
grade 2 events	741	815	741	722
	3%	3%	2%	2%
grade 3 events	331	341	278	284
	1%	1%	1%	1%
grade 4 events	312	349	282	308
	1%	1%	1%	1%
grade 5 events	1140	1310	1134	1364
	4%	5%	4%	5%
grade 6 events	652	675	568	620
	2%	2%	2%	2%
grade 7 events	18743	19253	20892	21237
	81%	80%	83%	82%

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	42.998576	43.00314800466528	Subarray requested	NONE	NONE
[deg] Pointing Dec	-16.719659	-16.69258290553991	Alternating exposures requested	N	N
[deg] Pointing Roll	50.330329	50.54031928271698	[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)	466274581.184000	466273686.2963			
Observation start date	2012-10-10T16:41:54	2012-10-10T16:28:06			
[s] Observation end time (MET)	466279581.184000	466280599.40917			
Observation end date	2012-10-10T18:05:14	2012-10-10T18:23:19			
Read mode	TIMED	TIMED			

2.3 Aspect



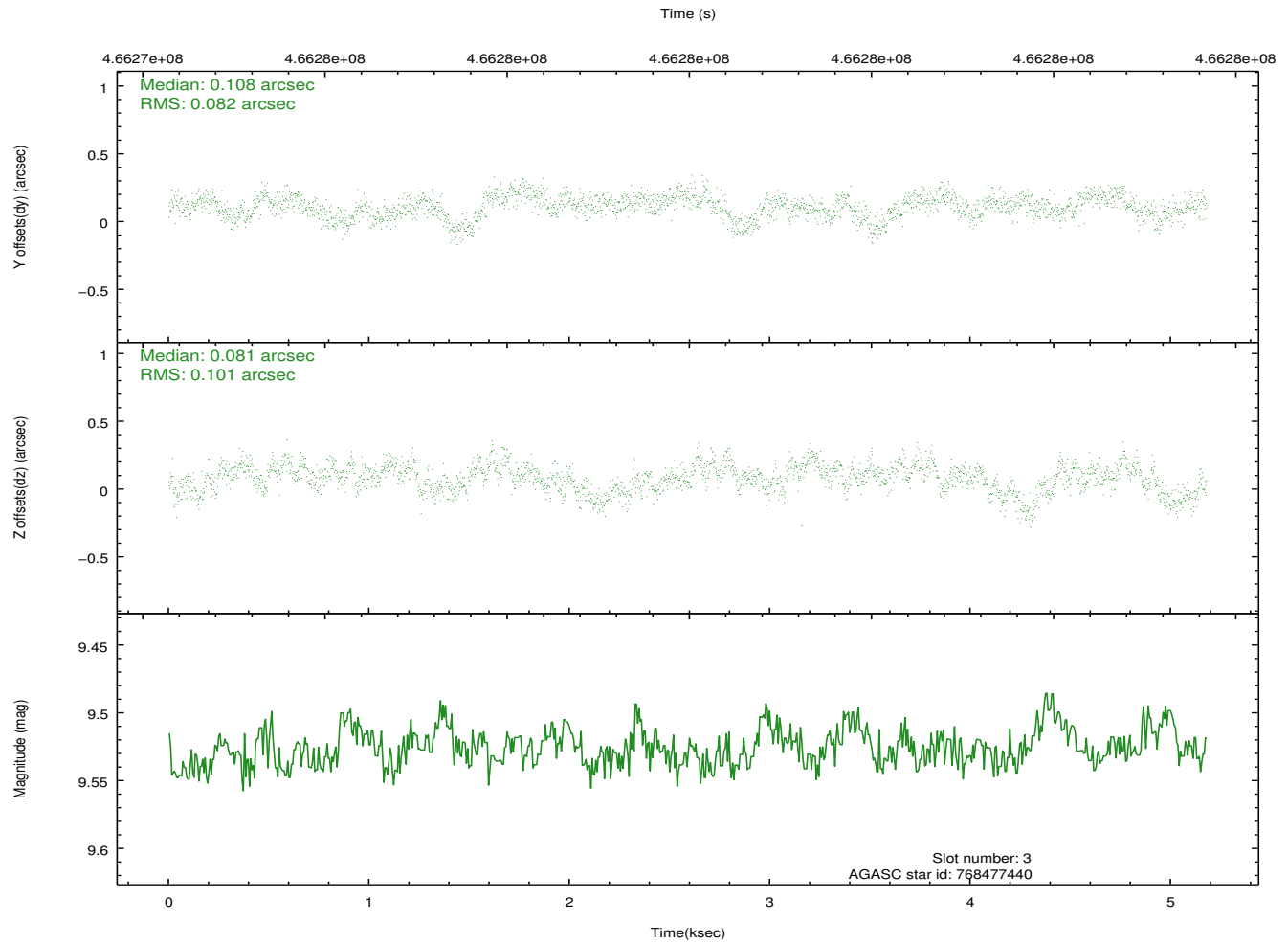
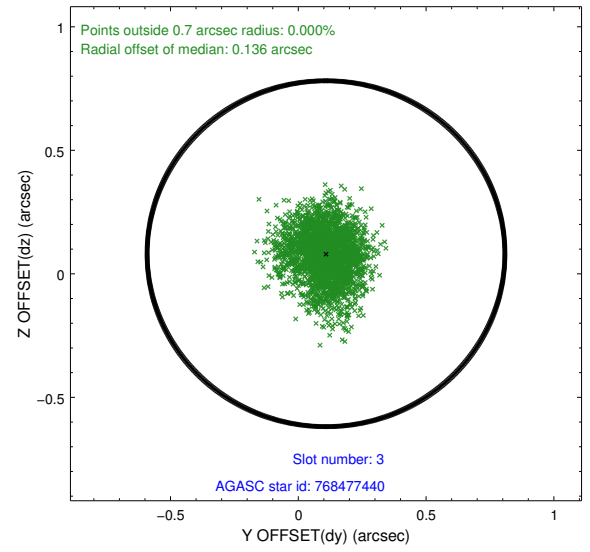
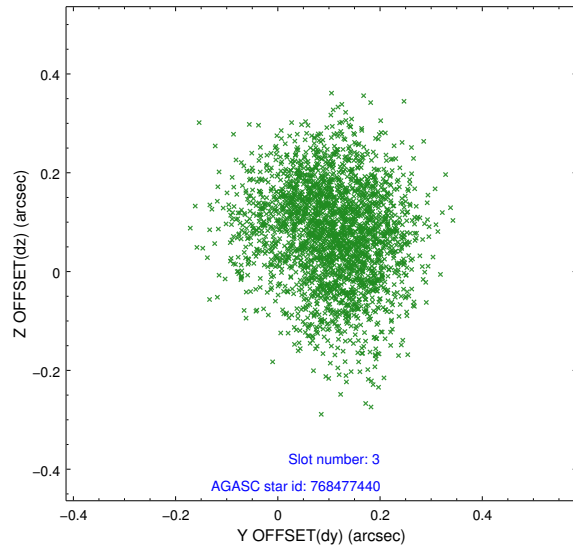


Slot Statistics

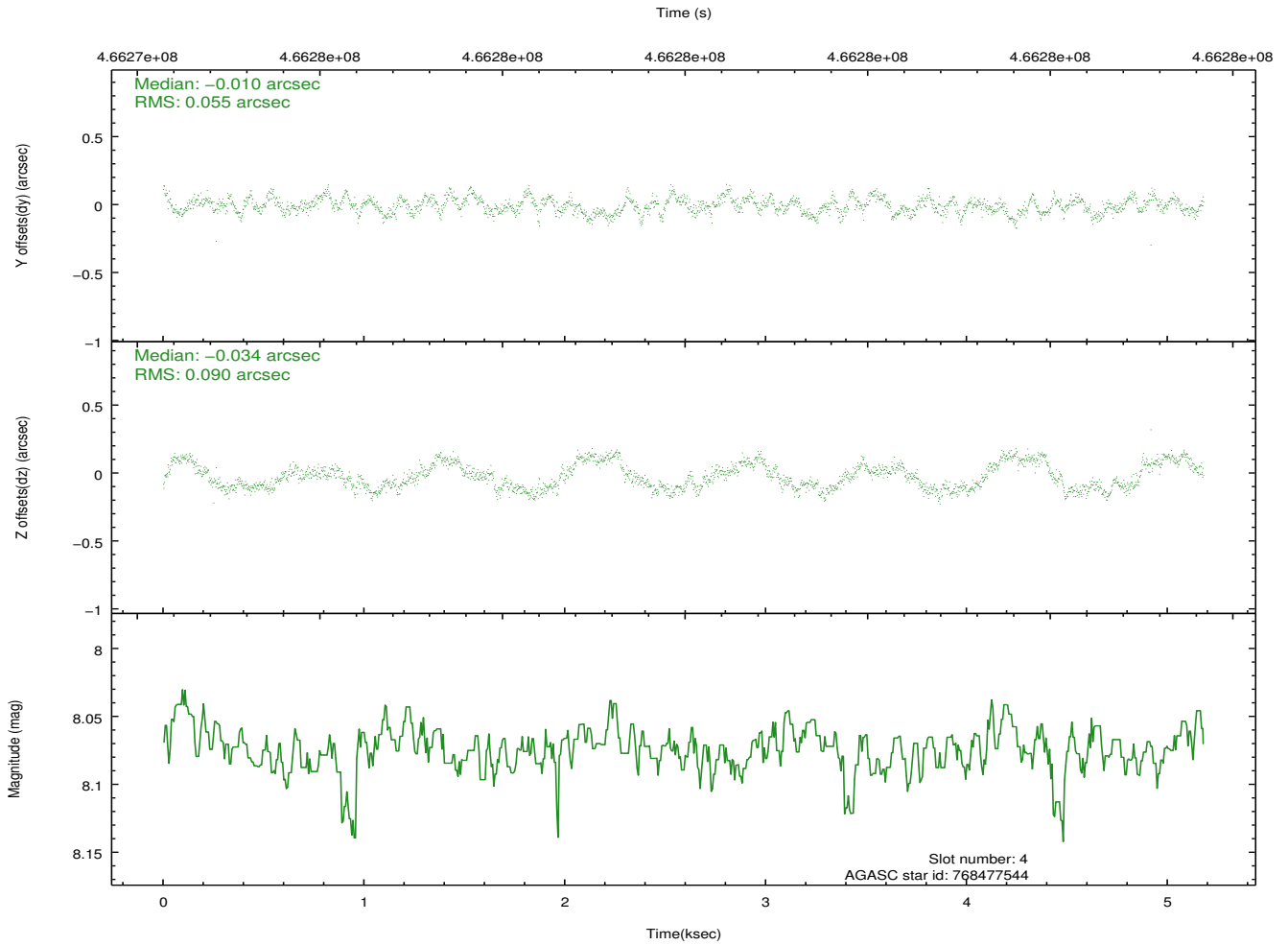
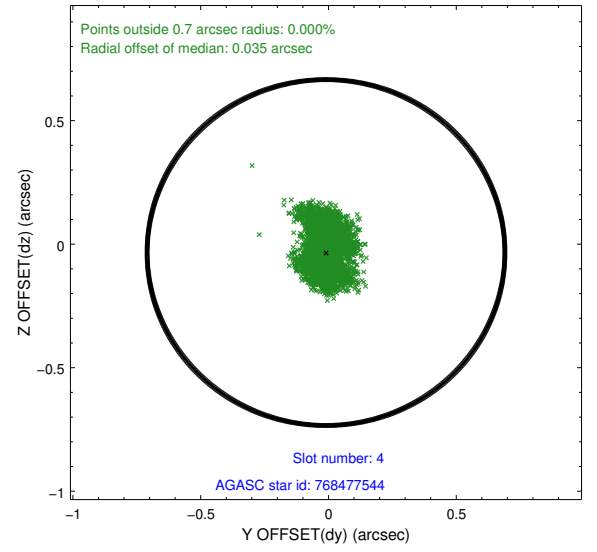
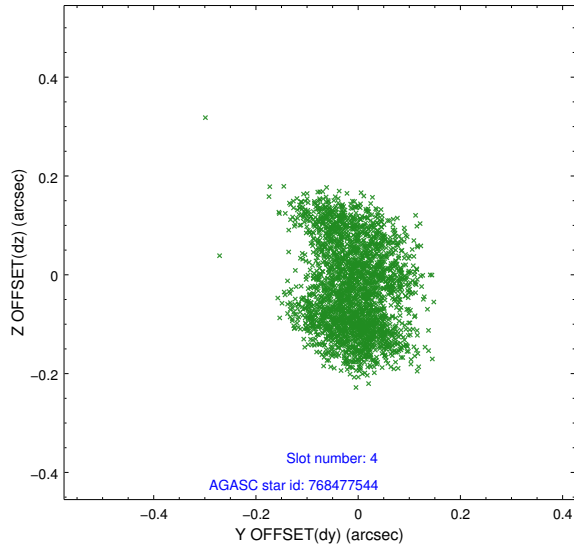
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.04	1263	0.078	-0.025	0.006	0.011	0.000000	0.000000	920.03	-840.80
1	FID		ACIS-I-5	7.03	1263	-0.274	0.066	0.006	0.011	0.000000	0.000000	-1827.78	1056.21
2	FID		ACIS-I-6	7.04	1263	0.105	0.029	0.007	0.011	0.000000	0.000000	384.33	1701.99
3	GUIDE	used	768477440	9.53	2525	0.108	0.081	0.138	0.222	42.340515	-16.823675	-1738.49	1504.29
4	GUIDE	used	768477544	8.07	2527	-0.010	-0.034	0.115	0.173	42.165660	-16.811238	-2091.45	1995.83
5	GUIDE	used	768482744	9.21	2521	-0.103	-0.214	0.111	0.182	42.368747	-16.483055	-735.33	2215.50
6	GUIDE	used	768608104	9.37	2508	-0.020	0.037	0.184	0.267	43.635473	-16.791597	1199.65	-1855.58
7	GUIDE	used	768608944	7.64	2526	0.038	0.121	0.088	0.136	42.957503	-17.251144	-1561.81	-1113.17

2.4 Star Slots

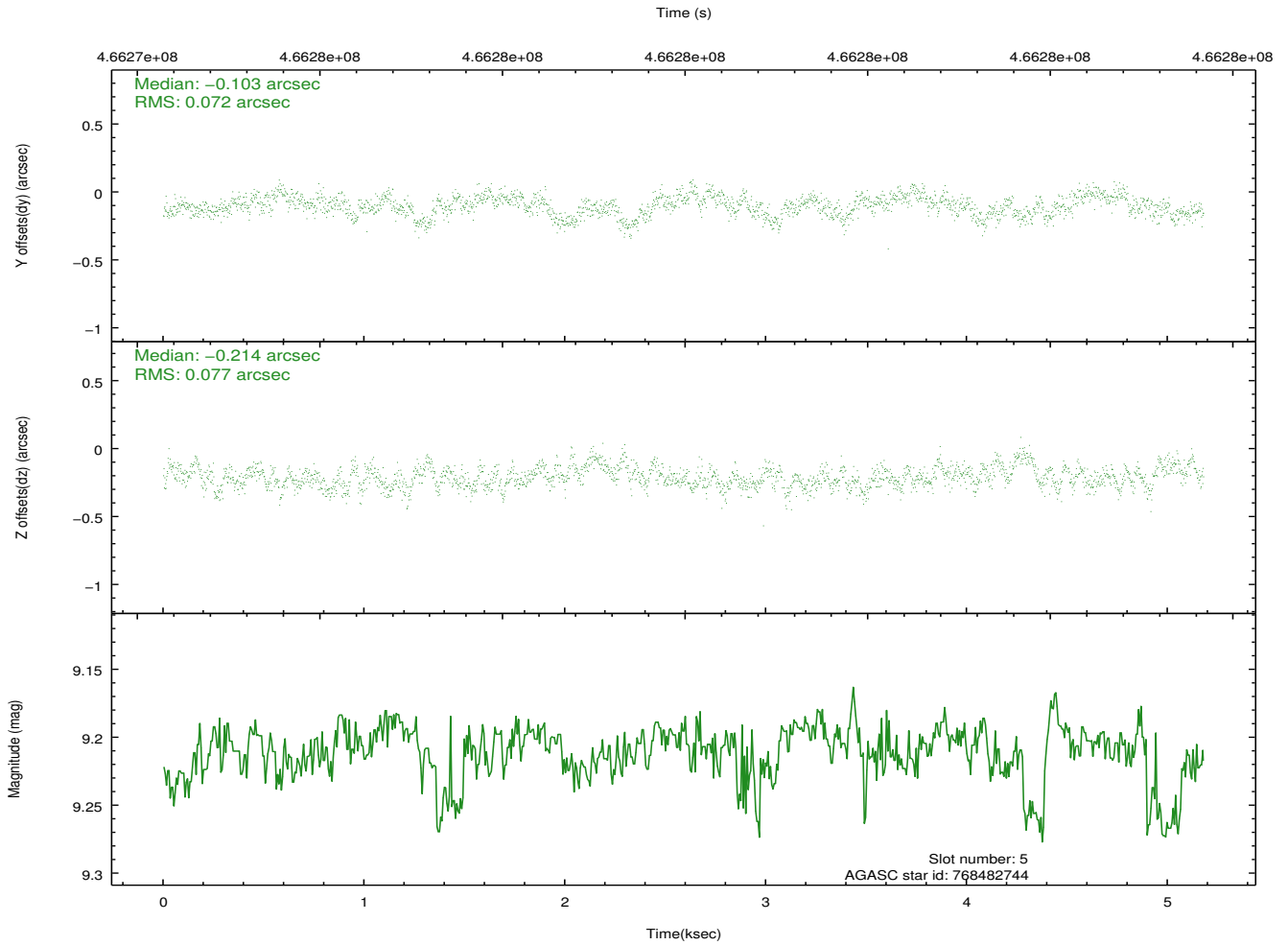
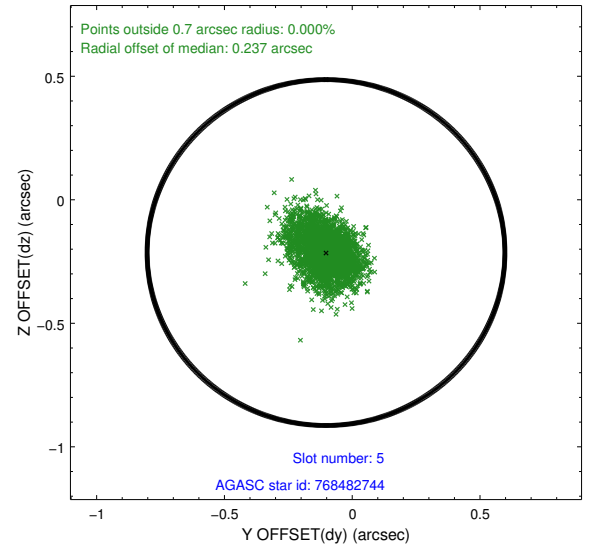
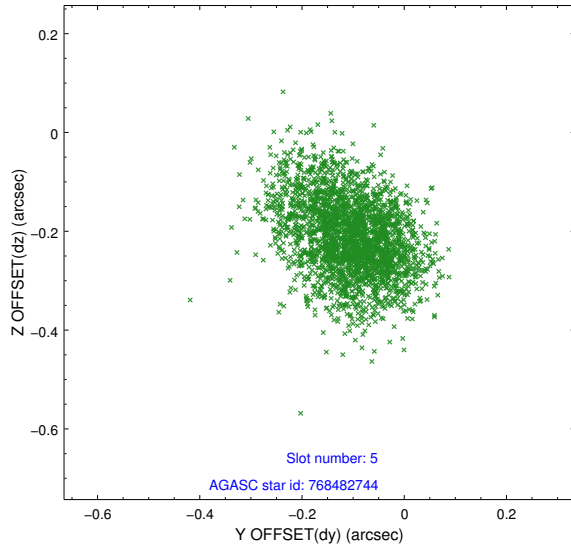
2.4.1 Slot 3



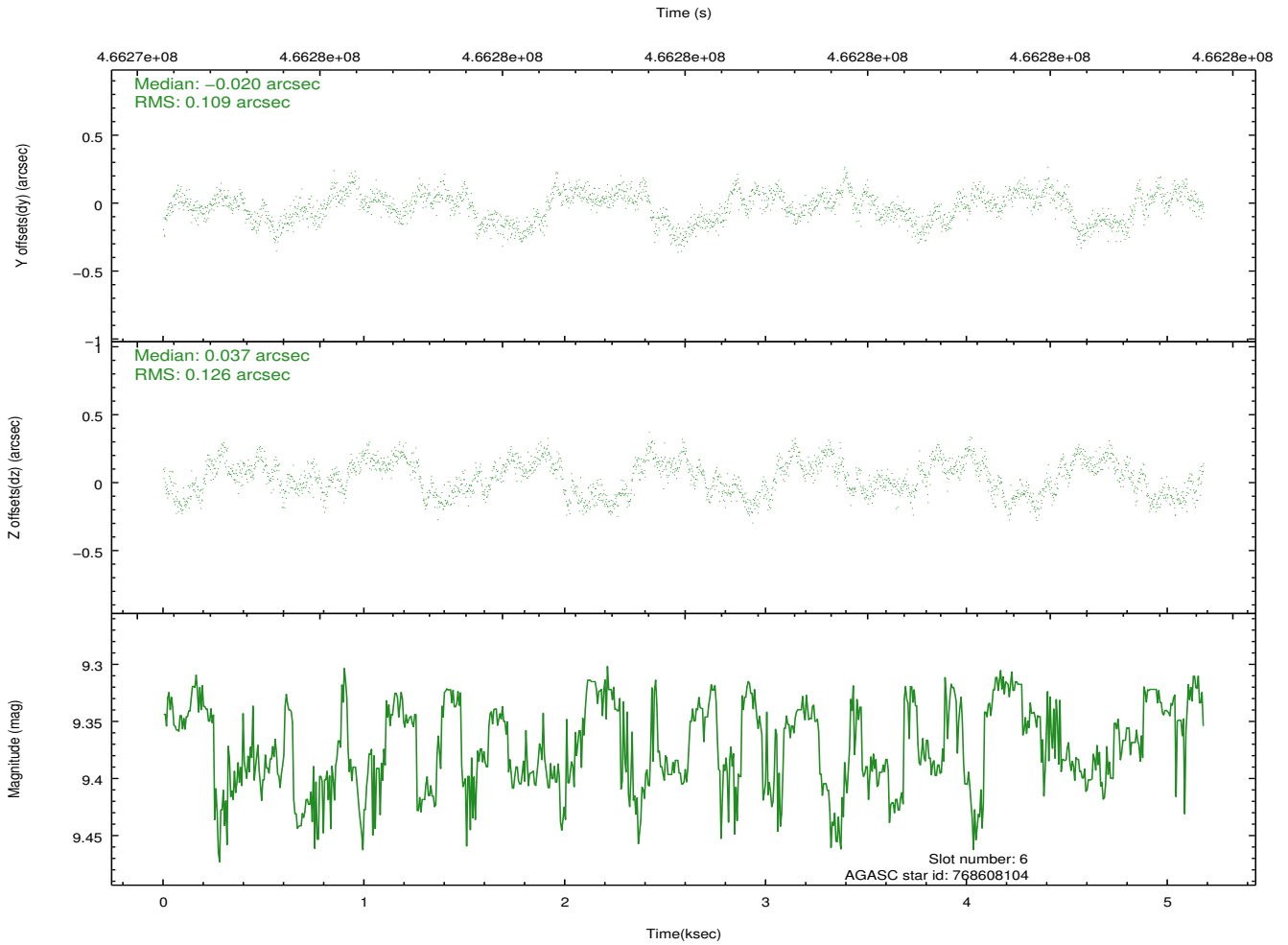
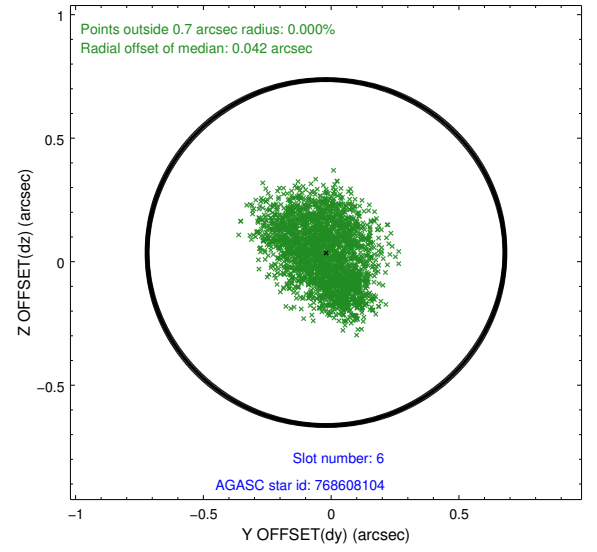
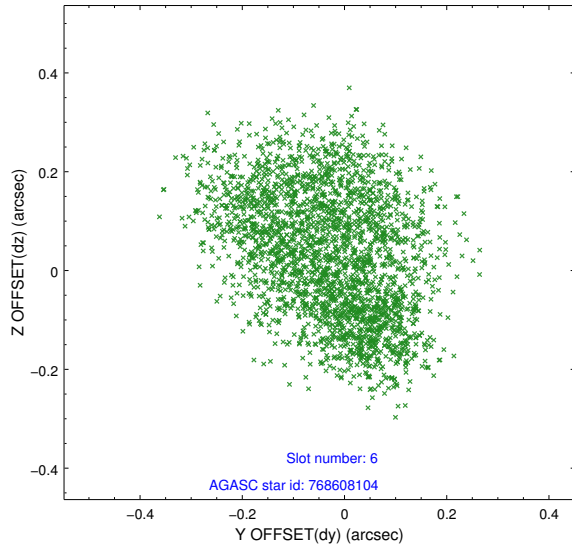
2.4.2 Slot 4



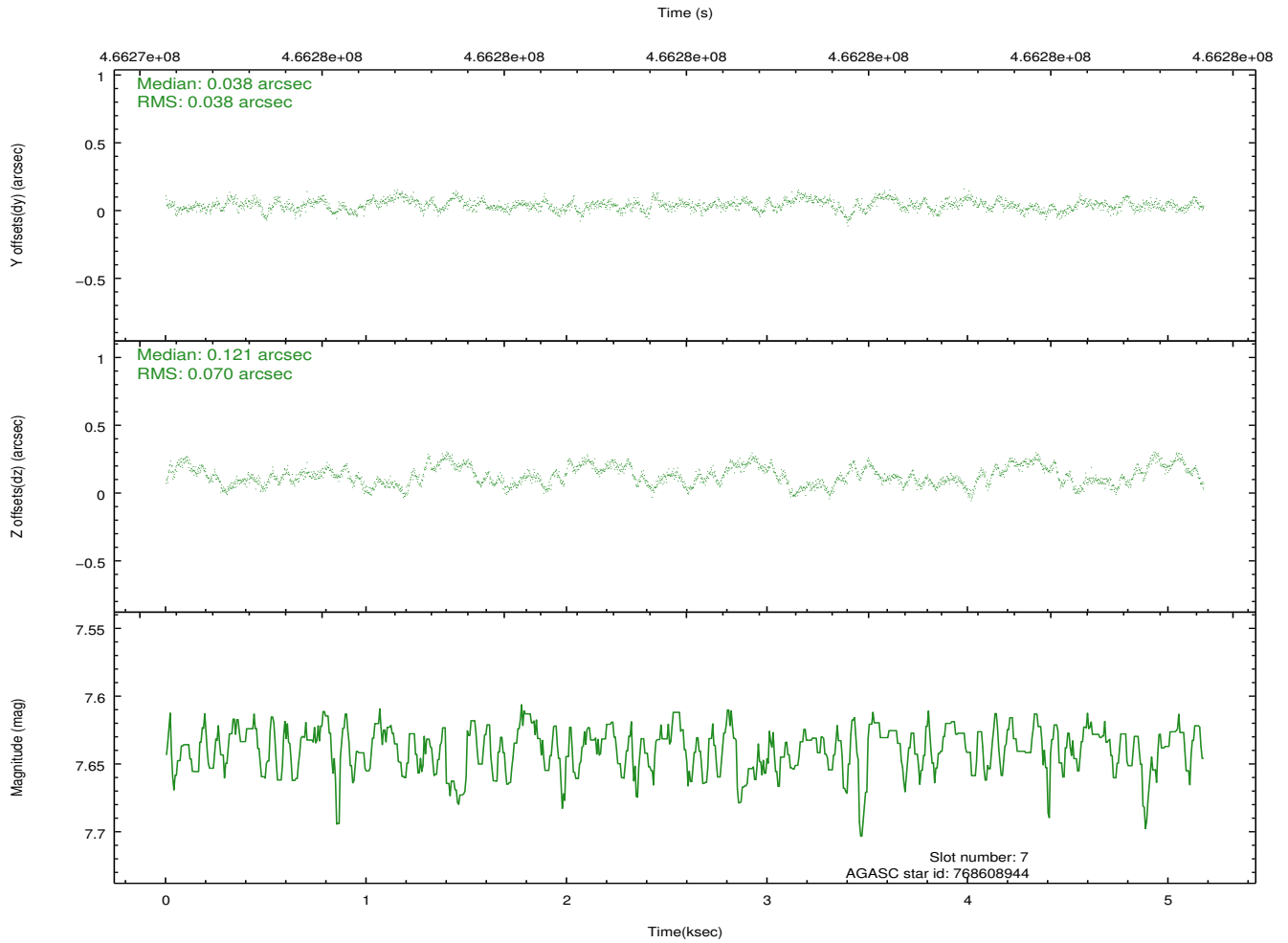
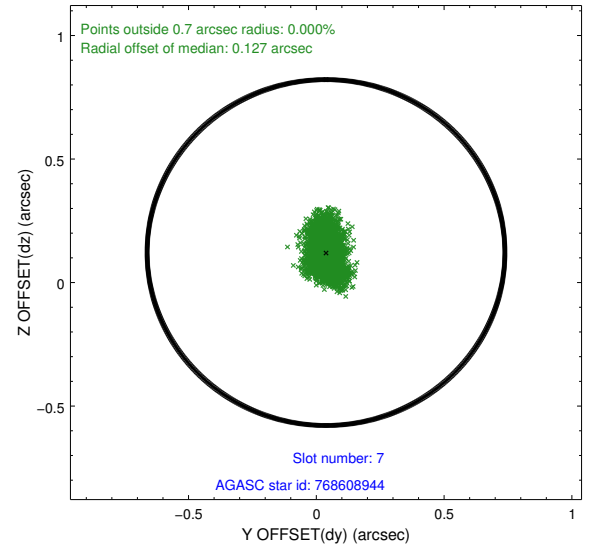
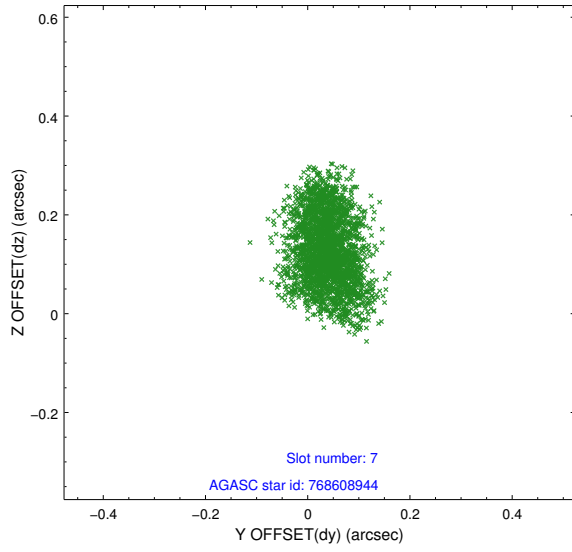
2.4.3 Slot 5



2.4.4 Slot 6

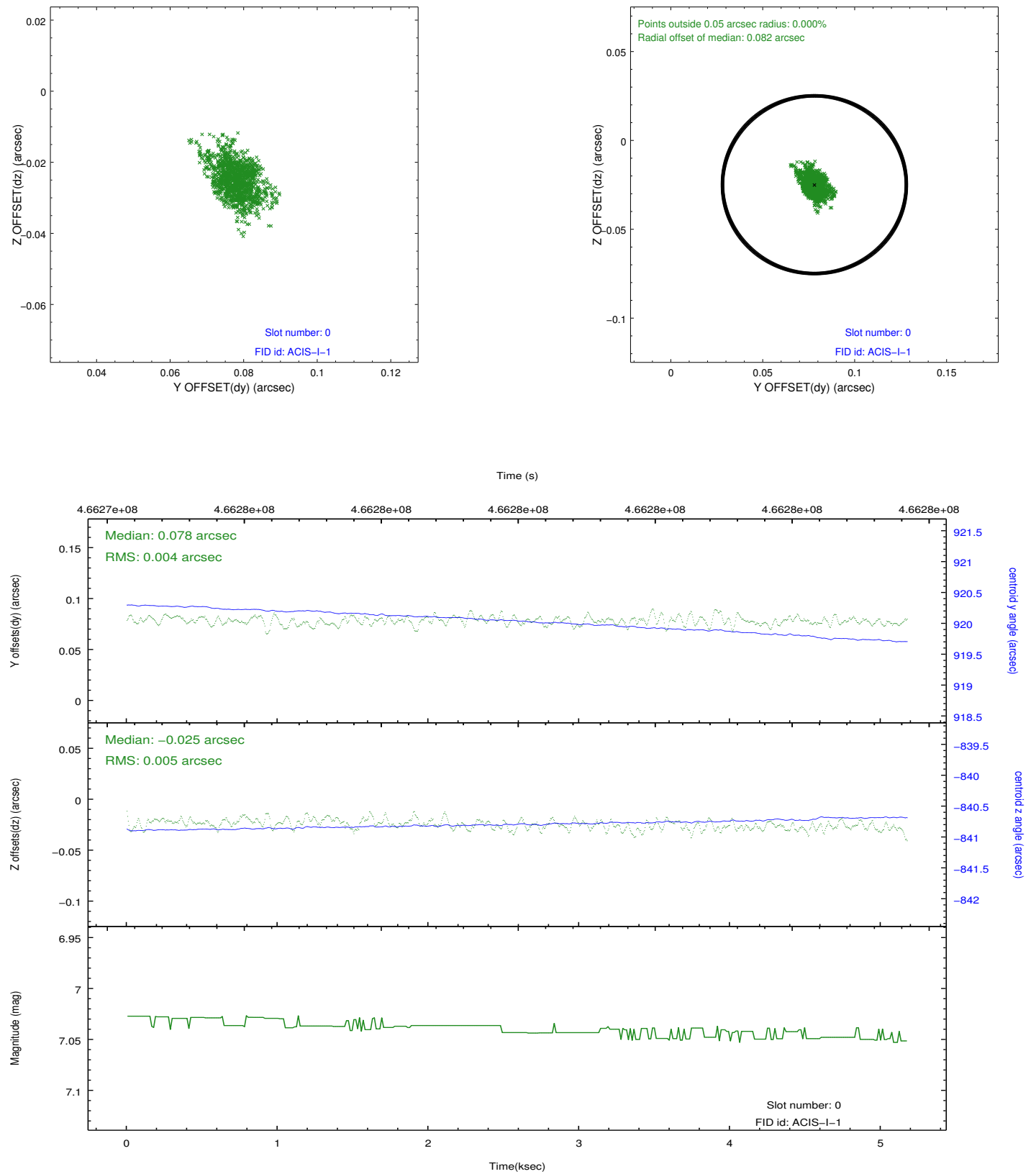


2.4.5 Slot 7

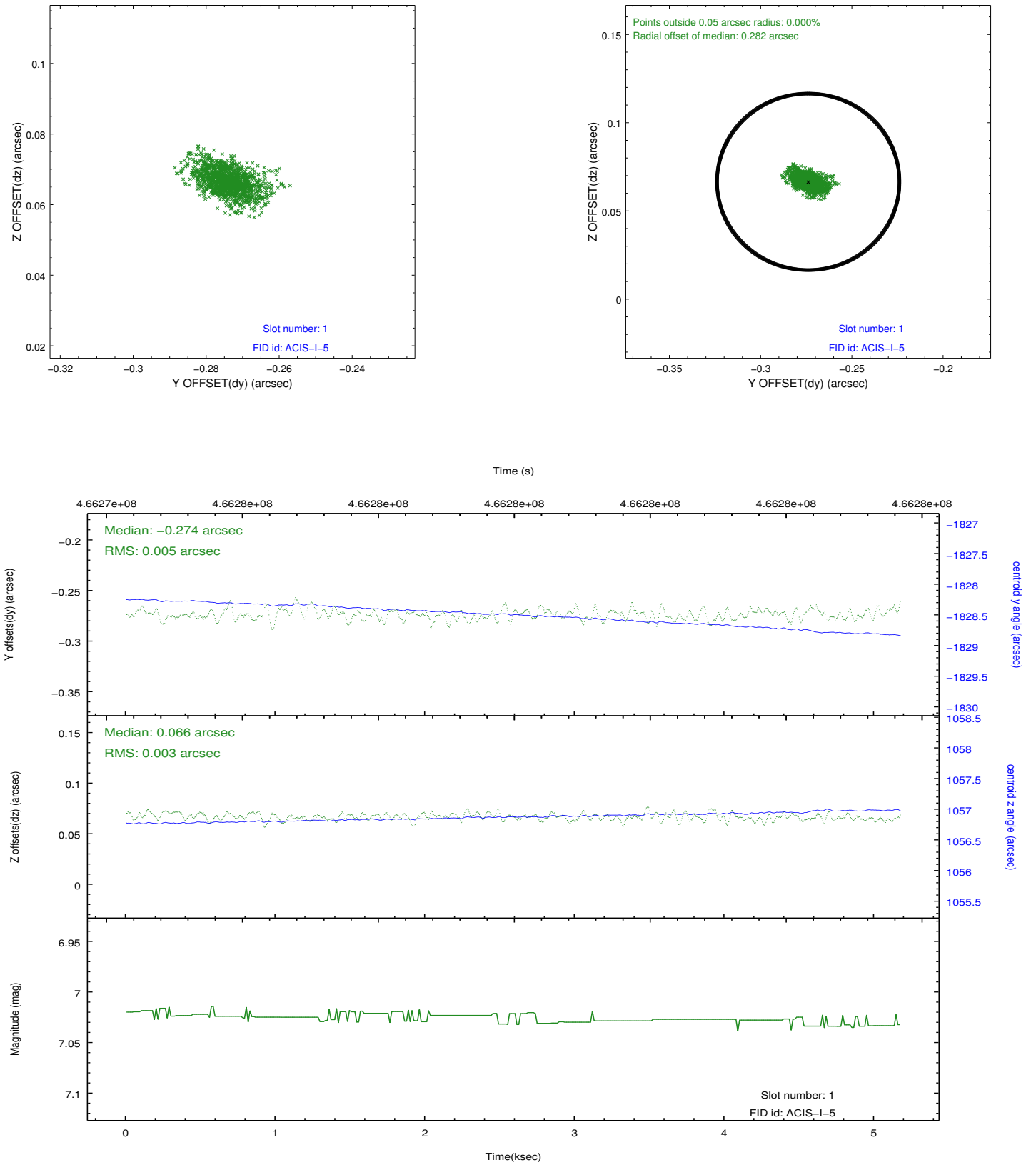


2.5 FID Slots

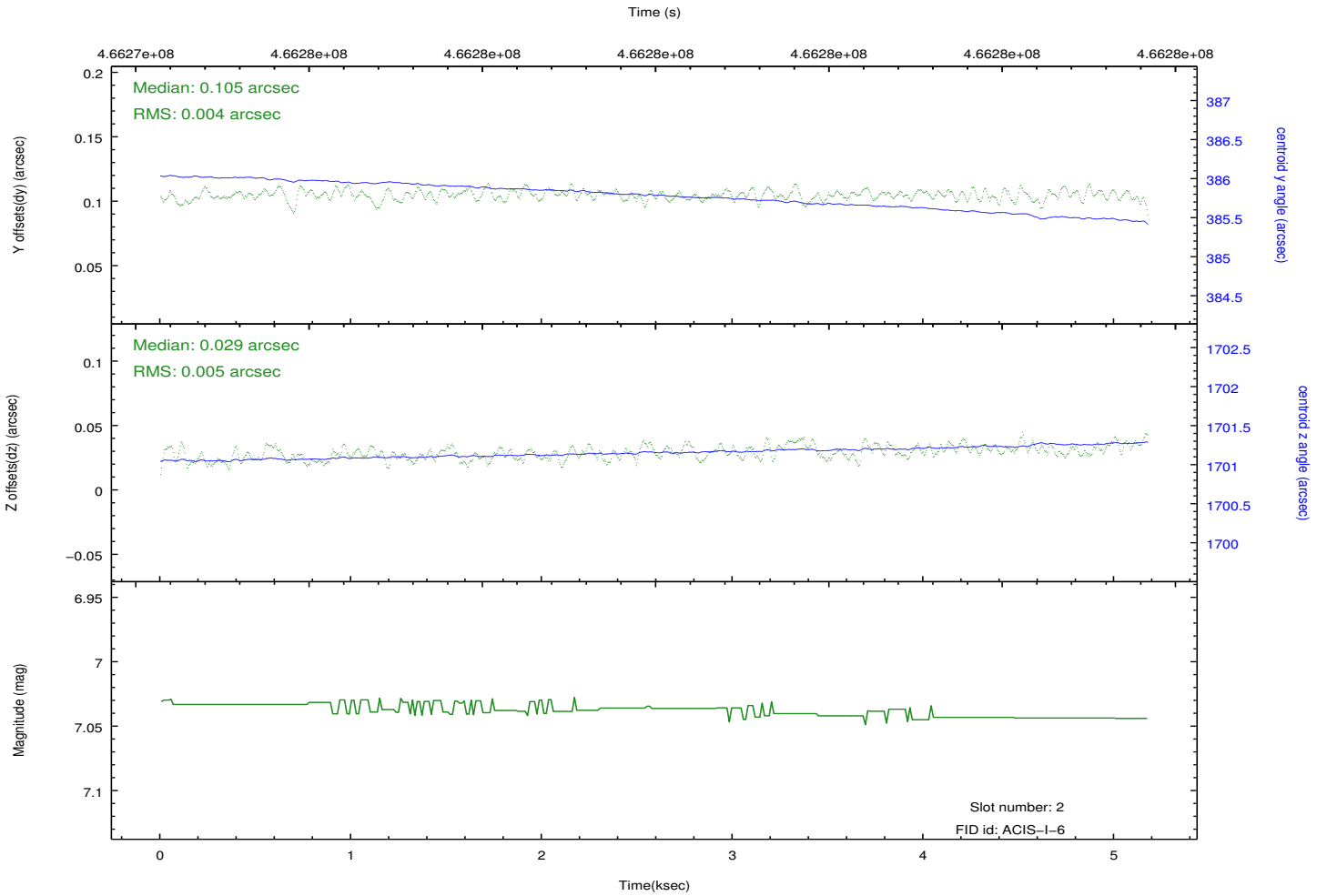
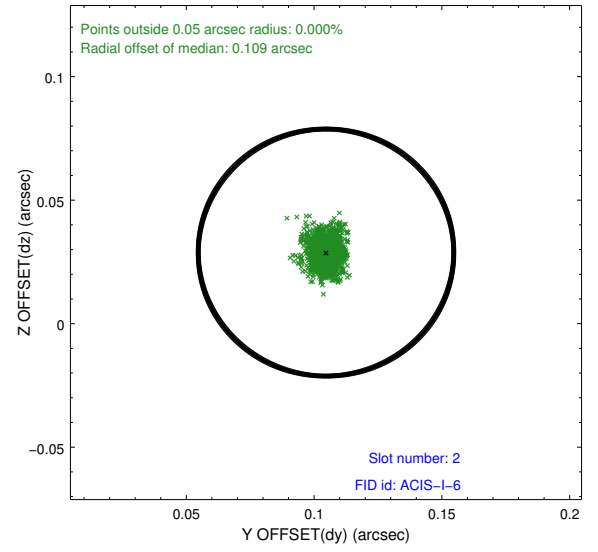
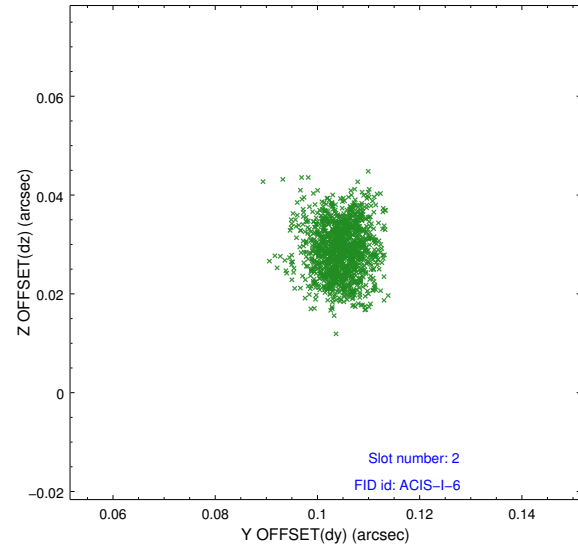
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0896963531971

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.