

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3507 - L2 Version 3
Chandra X-Ray Center

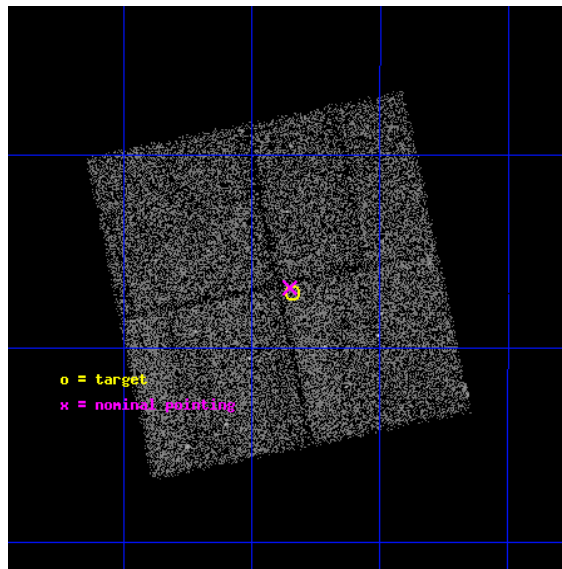
L2 Processing Date : Oct 27 2012

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1 Front

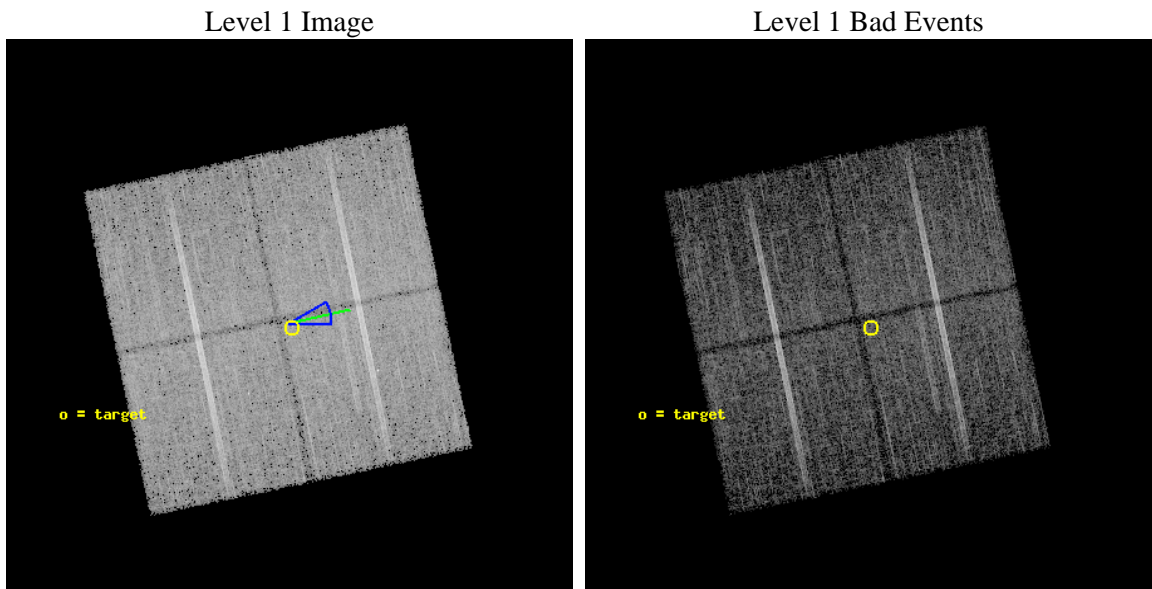
seq_num	400260	Sequence number
obs_id	3507	Observation id
title	NEUTRON STARS IN QUIESCENCE	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	XTE J1709-267	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	257.46	Observer's specified target RA [deg]
dec_targ	-26.618528	Observer's specified target Dec [deg]
ra_nom	257.46293903101	Nominal RA [deg]
dec_nom	-26.61471132054	Nominal Dec [deg]
roll_nom	78.219410192945	Nominal Roll [deg]
revision	3	Processing version of data
ontime	23047.134484887	Sum of GTIs [s]
livetime	22746.006705788	Livetime [s]
ontime0	23037.58838436	Sum of GTIs [s]
ontime1	23043.911404788	Sum of GTIs [s]
ontime2	23047.093444943	Sum of GTIs [s]
ontime3	23047.134484887	Sum of GTIs [s]
l2events	46659	Number of level 2 events



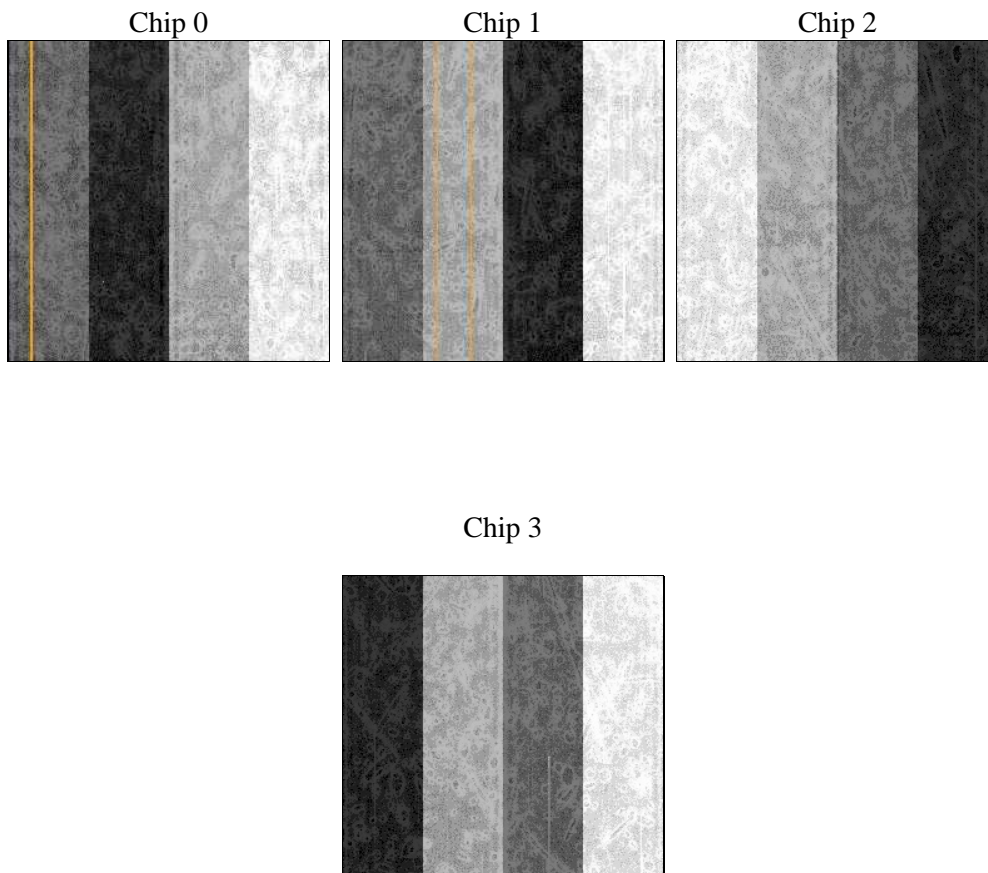
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	22800.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	23047.134484887	Sum of GTIs [s]
caldbver	4.5.2	 	ontime0	23037.58838436	Sum of GTIs [s]
date	2012-10-27T17:31:13	Date and time of file creation	ontime1	23043.911404788	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	23047.093444943	Sum of GTIs [s]
			ontime3	23047.134484887	Sum of GTIs [s]
			l1events	472585	Number of level 1 events

2.1.4 Events

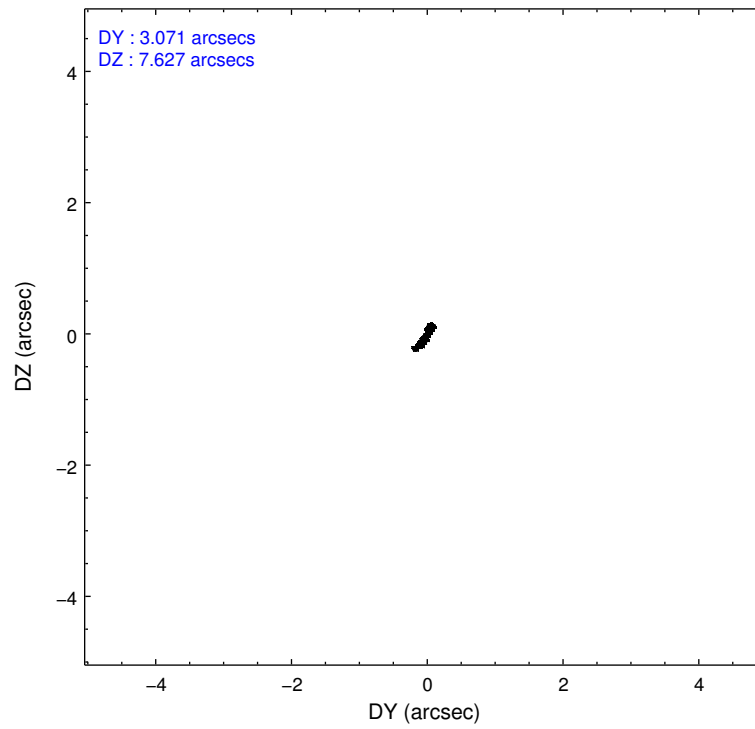
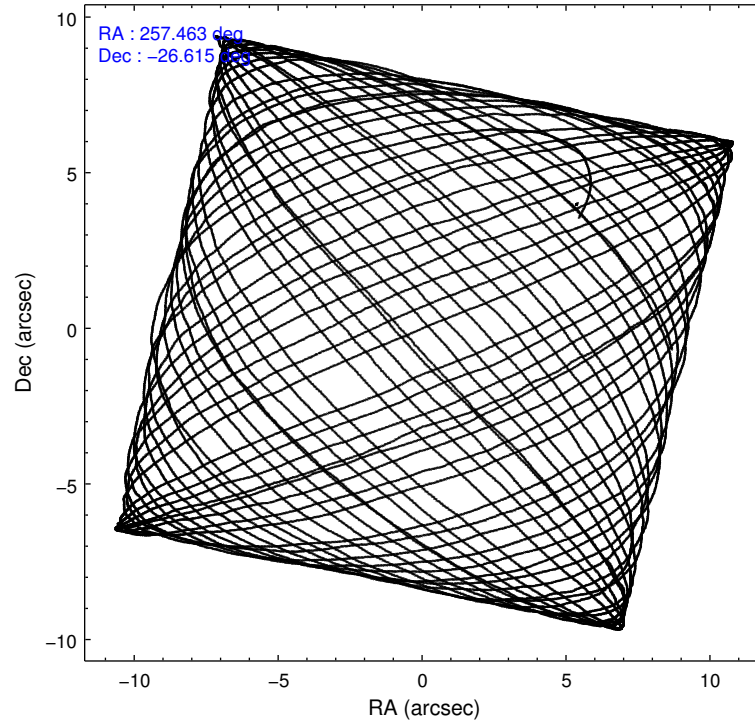
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	112144	114287	124518	121636
rejected events	98732	98912	111984	108010
rejected %	88%	86%	89%	88%

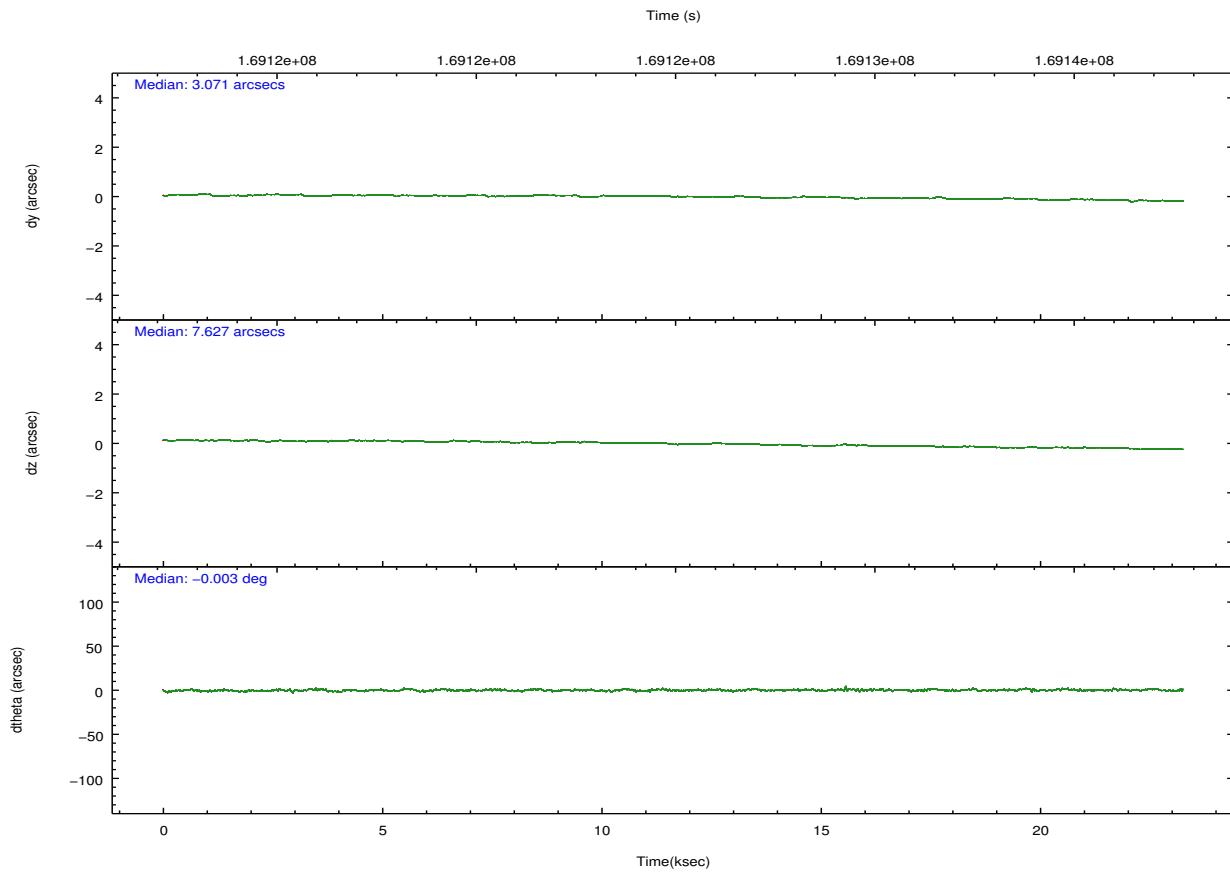
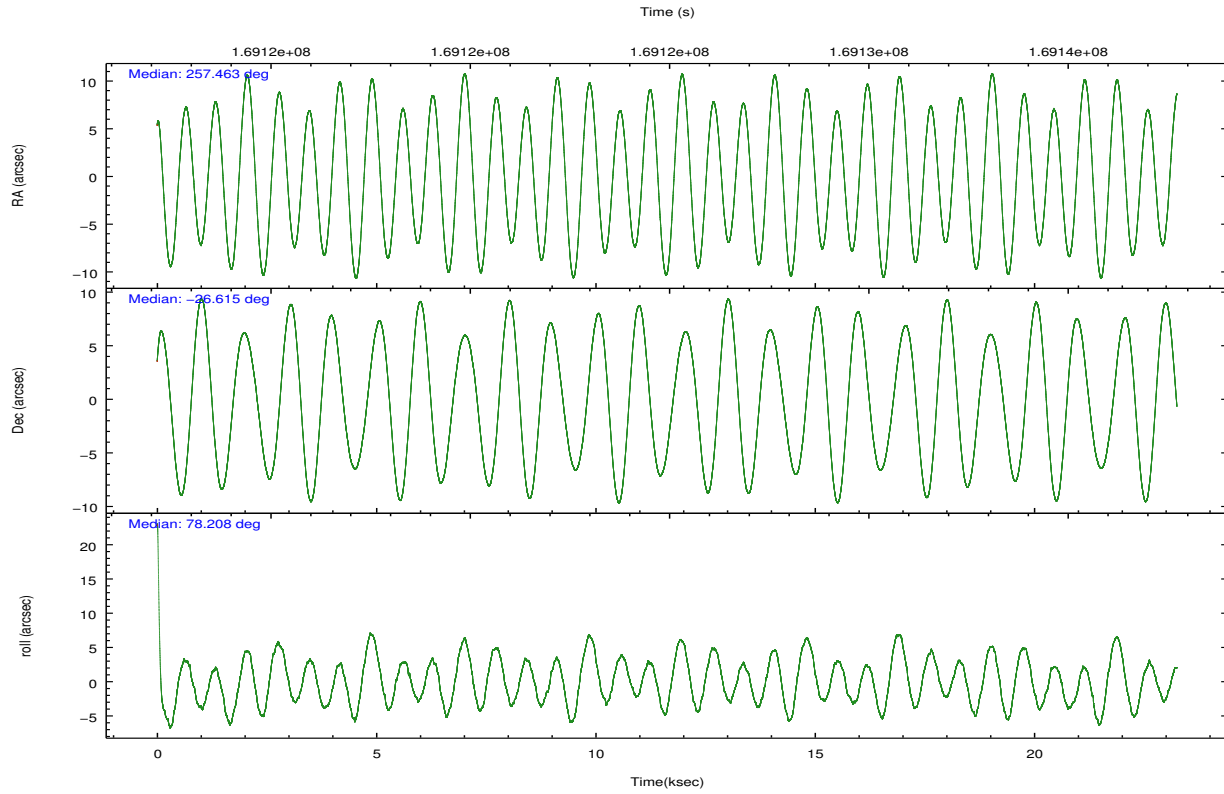
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5357	6733	4974	6358
	4%	5%	3%	5%
grade 1 events	58	58	59	82
	0%	0%	0%	0%
grade 2 events	2862	2814	2709	2426
	2%	2%	2%	1%
grade 3 events	1466	1546	1306	1323
	1%	1%	1%	1%
grade 4 events	1339	1516	1368	1253
	1%	1%	1%	1%
grade 5 events	4174	4527	4009	4625
	3%	3%	3%	3%
grade 6 events	2391	2768	2180	2271
	2%	2%	1%	1%
grade 7 events	94497	94325	107913	103298
	84%	82%	86%	84%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	257.472657	257.4629390310082	Subarray requested	NONE	NONE
[deg] Pointing Dec	-26.640690	-26.61471132054038	Alternating exposures requested	N	N
[deg] Pointing Roll	78.015065	78.21941019294454	[s] Primary exposure time	0.000000	3.1
[deg] Roll angle	76.000000	76.000000			
[deg] Roll tolerance	16.000000	16.000000			
Roll constraint allows 180D rotation	N	N			
[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)	169113757.184000	169112666.30721			
Observation start date	2003-05-12T08:01:33	2003-05-12T07:44:26			
[s] Observation end time (MET)	169136557.184000	169137132.03325			
Observation end date	2003-05-12T14:21:33	2003-05-12T14:32:12			
Read mode	TIMED	TIMED			

2.3 Aspect



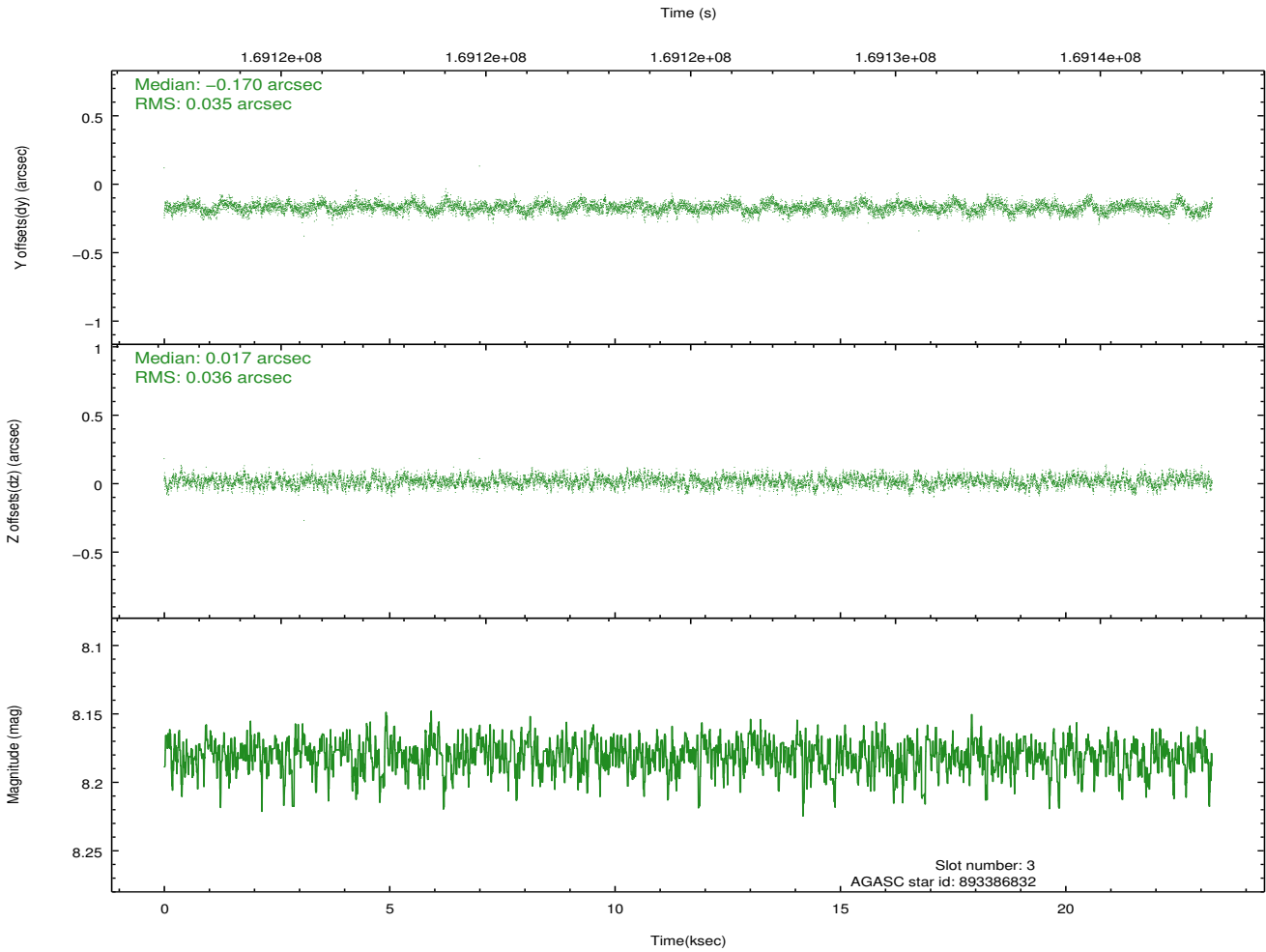
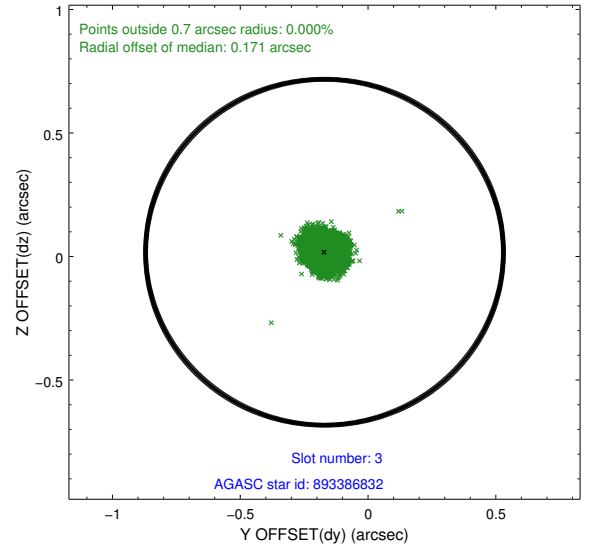
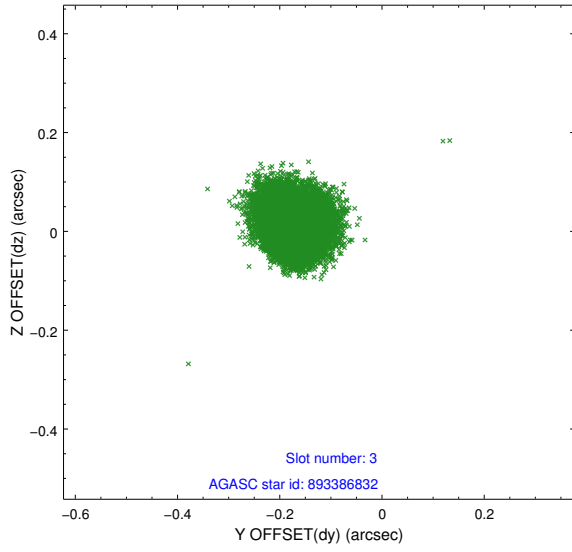


Slot Statistics

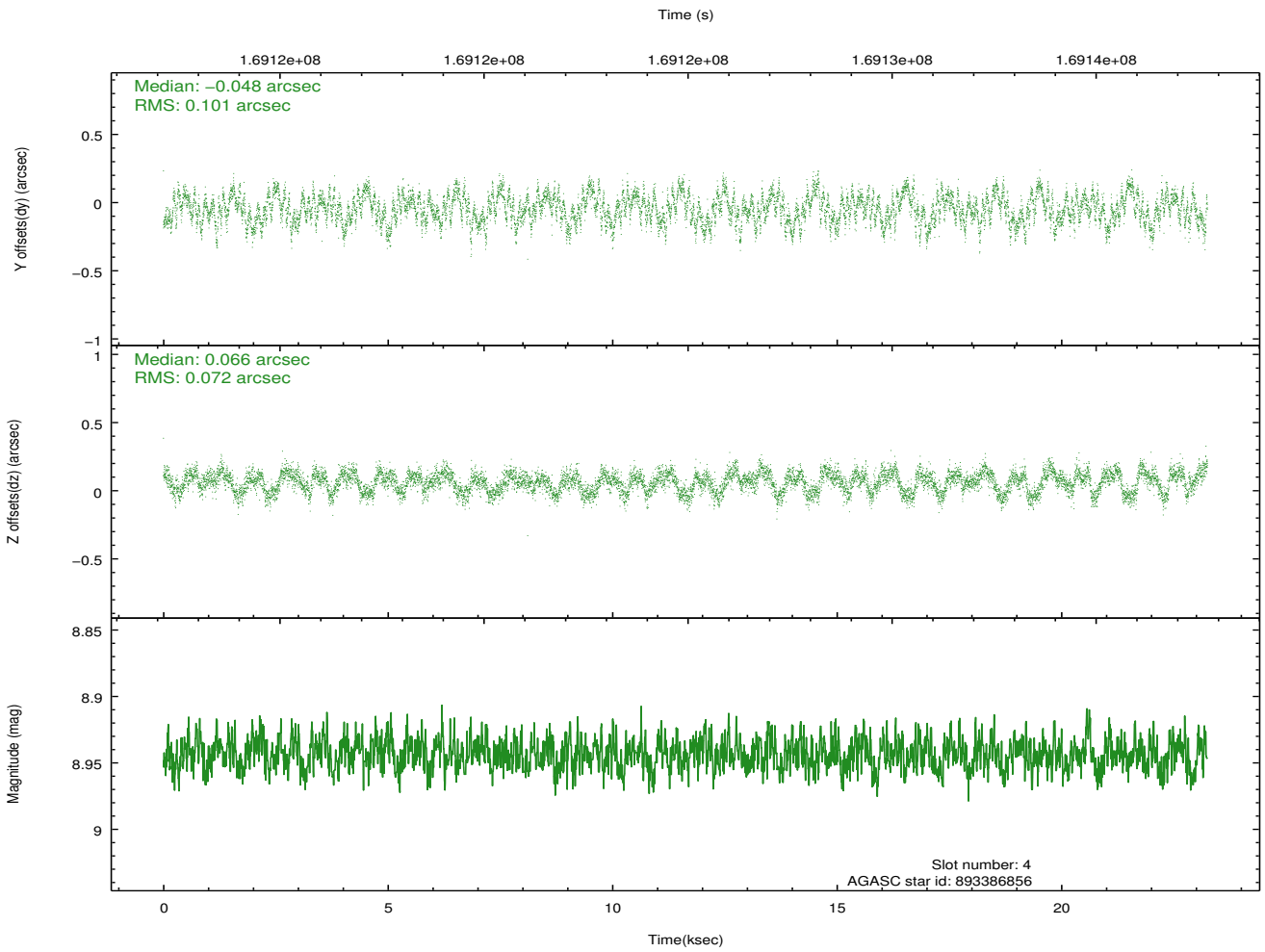
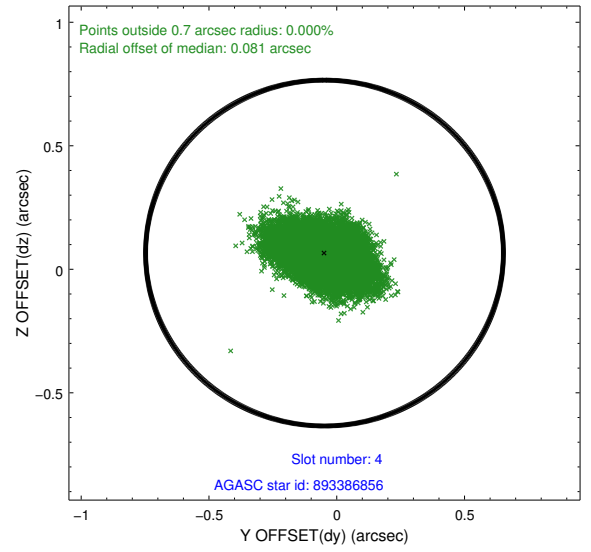
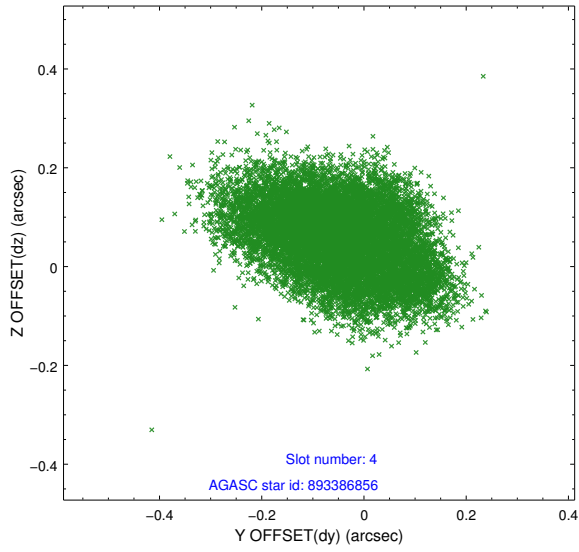
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	5670	-0.045	-0.066	0.013	0.024	0.000000	0.000000	-757.47	-837.45
1	FID	ACIS-I-4	7.17	5671	0.061	0.051	0.007	0.013	0.000000	0.000000	2156.62	1068.79
2	FID	ACIS-I-5	7.23	5670	-0.117	0.085	0.012	0.020	0.000000	0.000000	-1811.20	1066.81
3	GUIDE	893386832	8.18	11341	-0.170	0.017	0.054	0.085	257.635339	-26.245087	1501.90	-217.99
4	GUIDE	893386856	8.94	11339	-0.048	0.066	0.133	0.213	258.323899	-26.169480	2222.33	-2339.74
5	GUIDE	893802864	9.22	11332	0.164	0.038	0.111	0.177	257.166026	-26.651875	-245.12	956.07
6	GUIDE	893837592	9.30	11324	-0.084	-0.161	0.104	0.169	256.924631	-26.316123	771.72	1971.69
7	GUIDE	893913752	8.69	11339	0.134	0.051	0.061	0.102	257.717246	-26.451689	829.02	-629.78

2.4 Star Slots

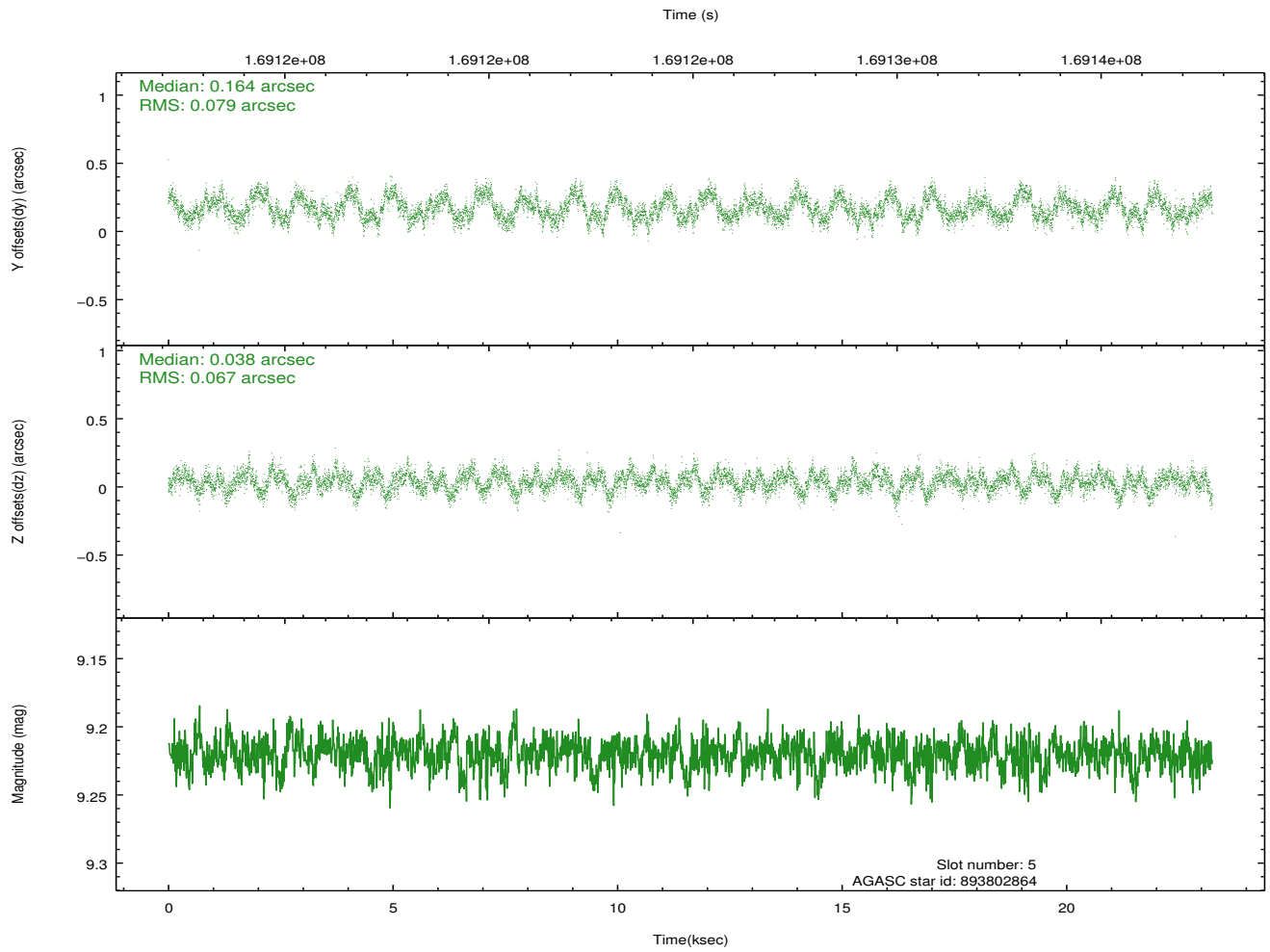
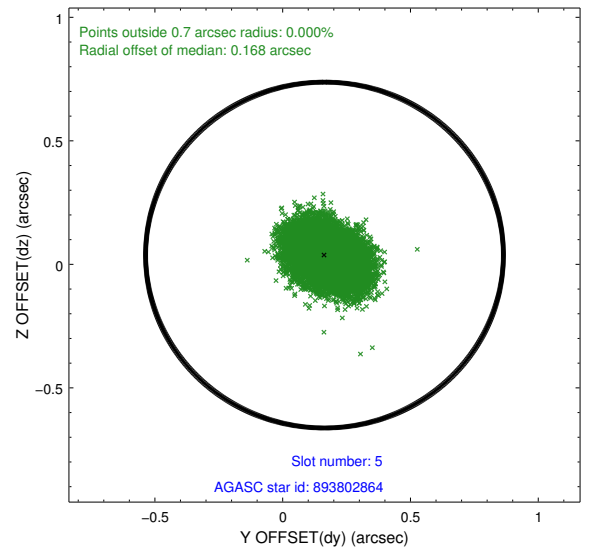
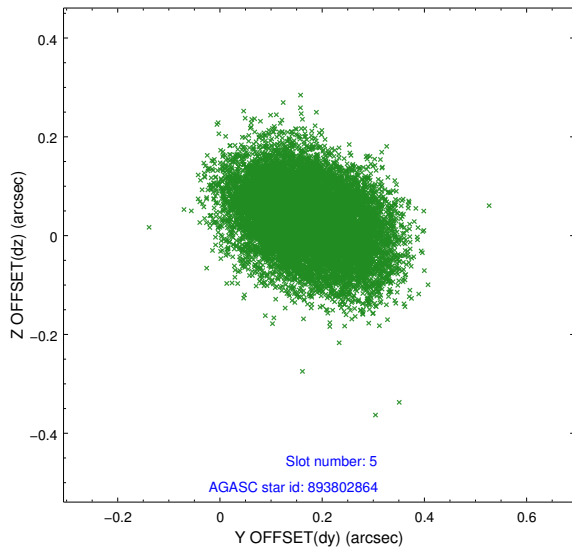
2.4.1 Slot 3



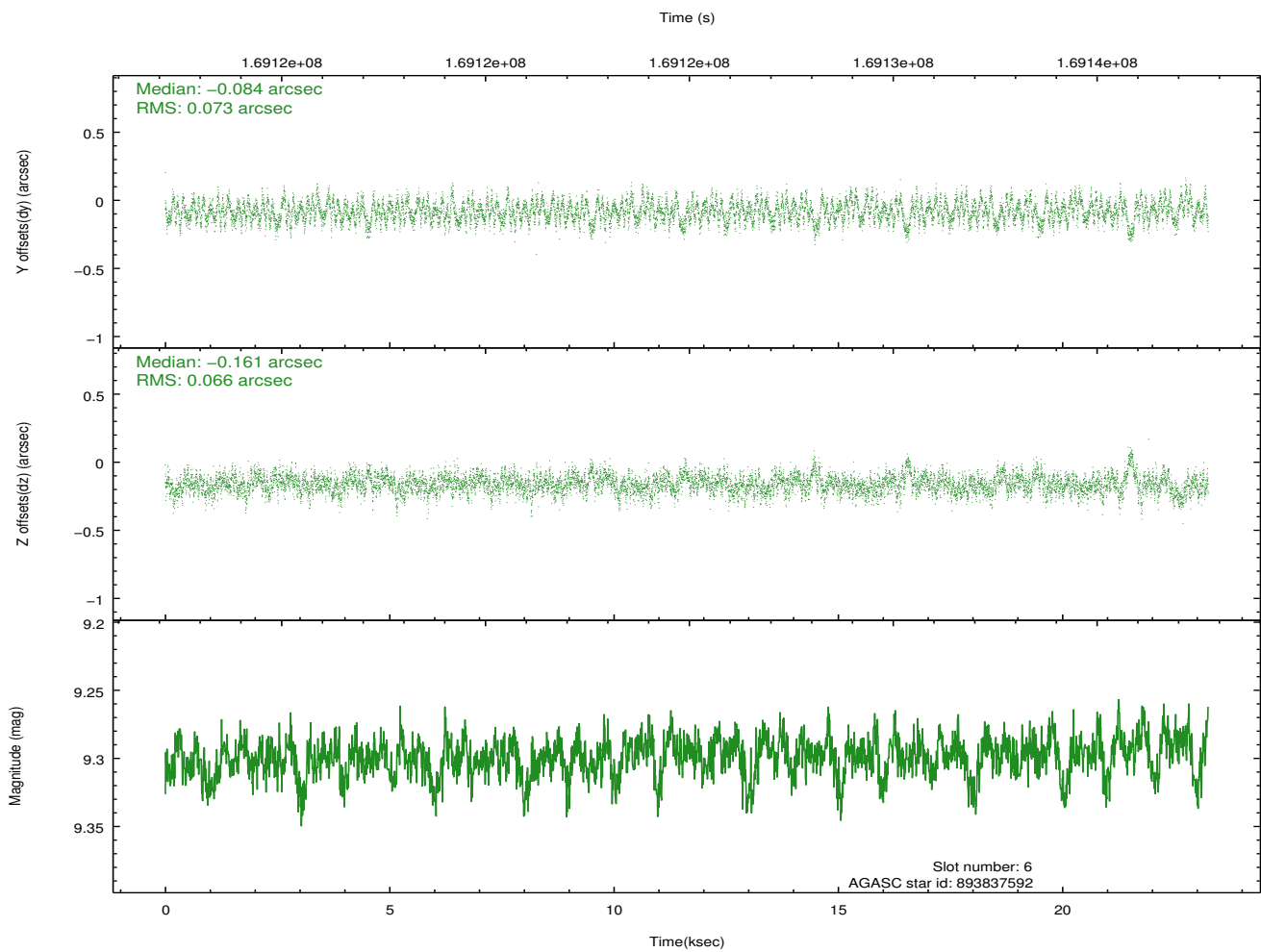
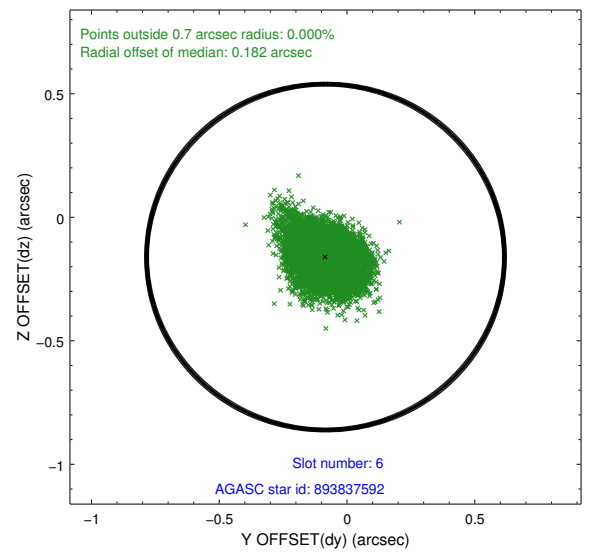
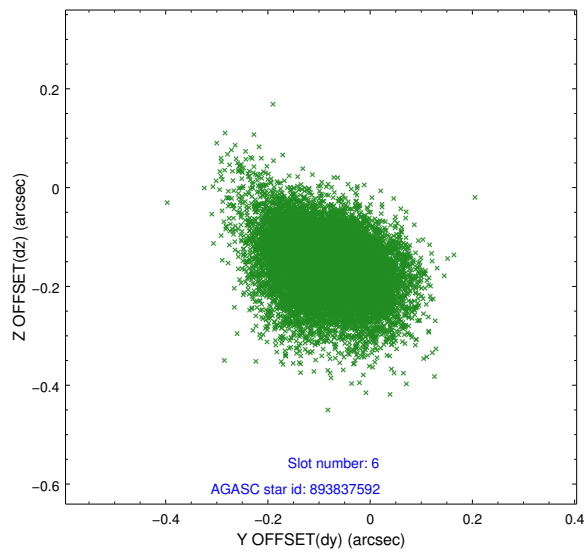
2.4.2 Slot 4



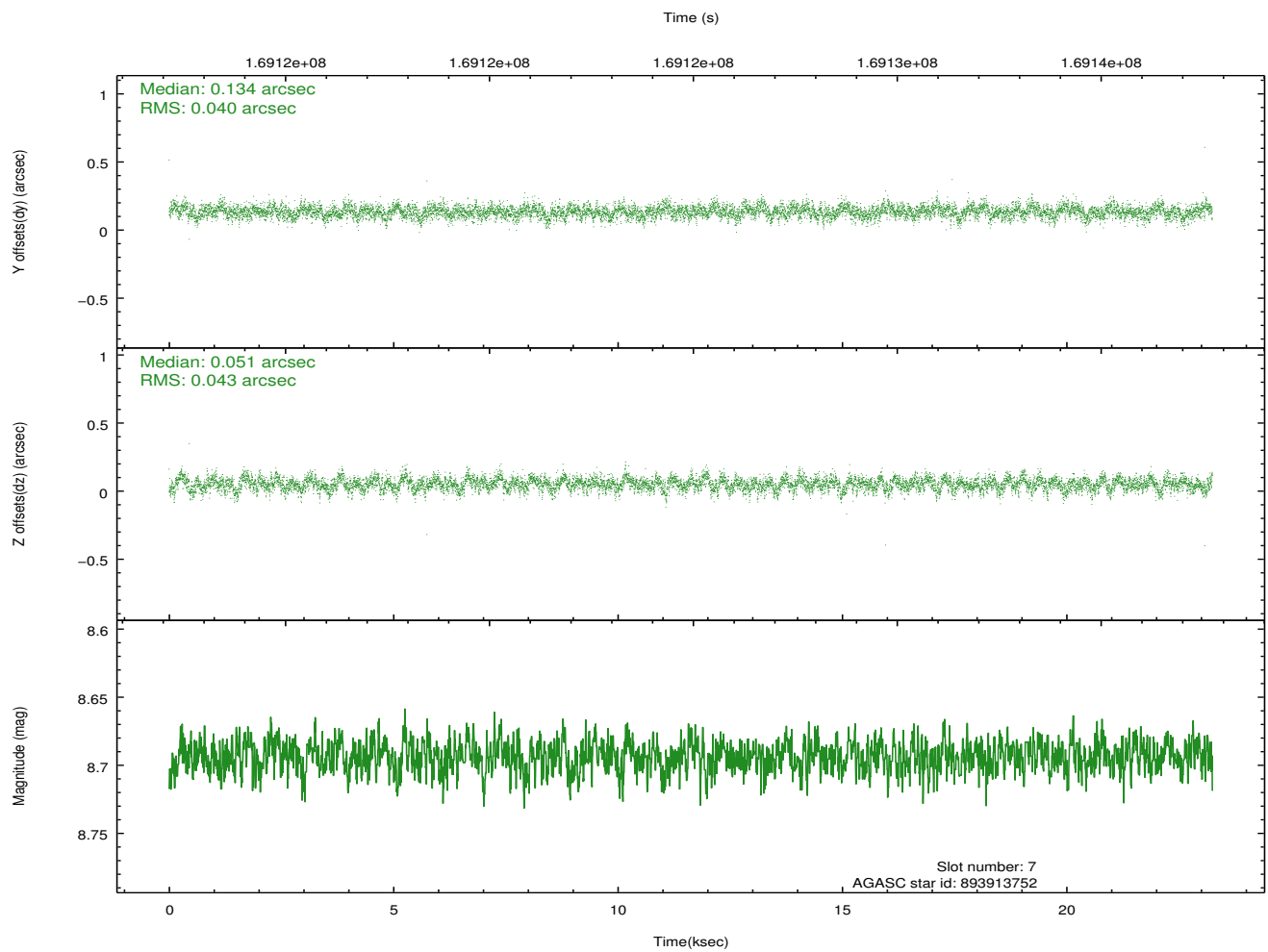
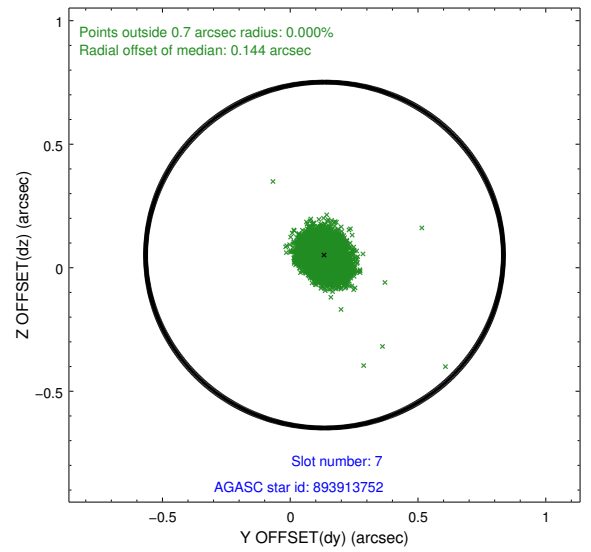
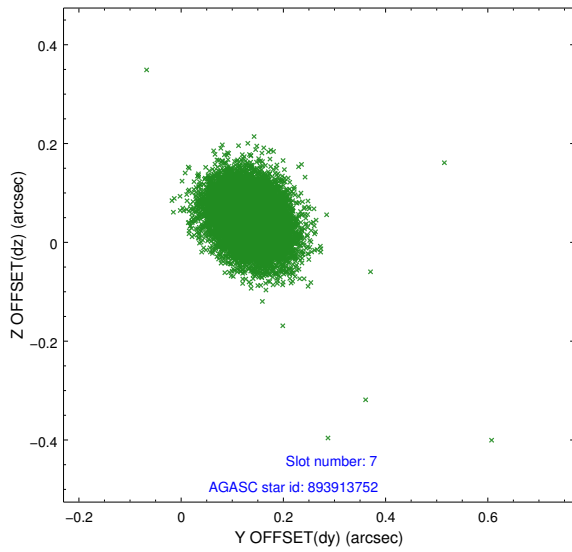
2.4.3 Slot 5



2.4.4 Slot 6

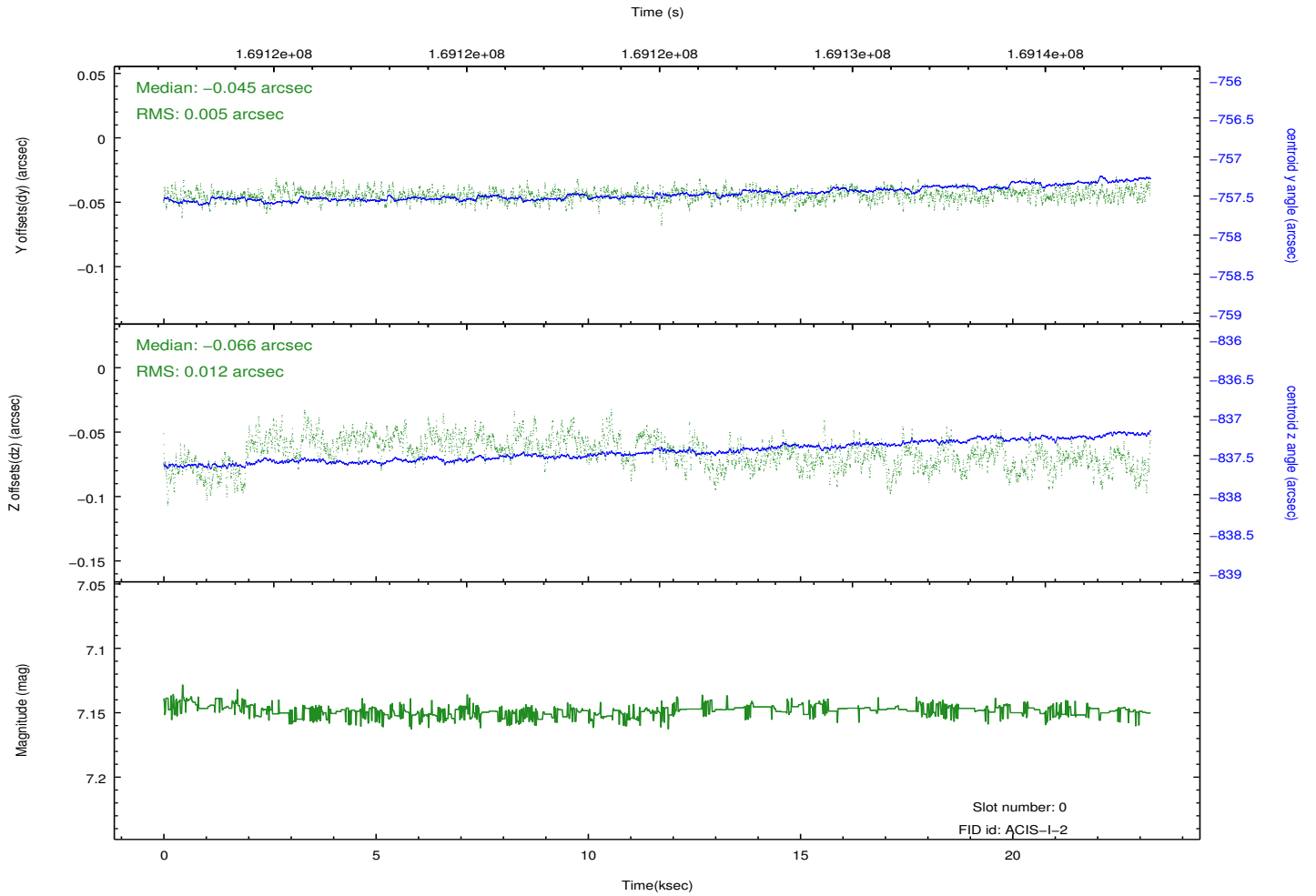
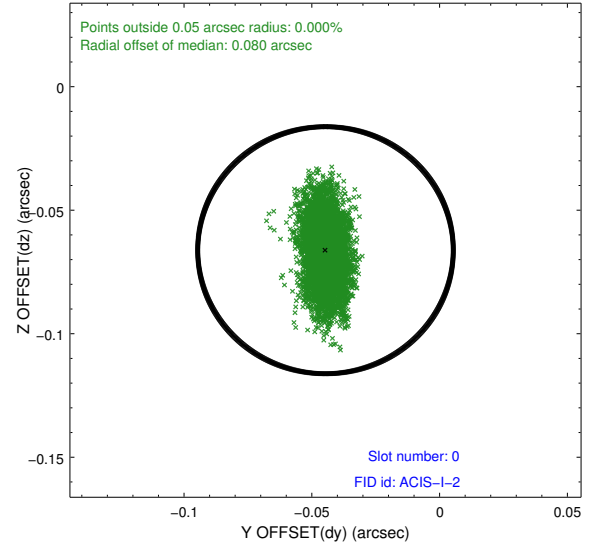
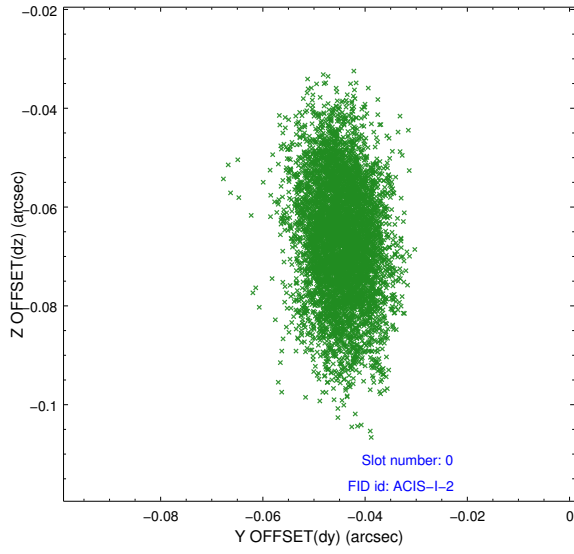


2.4.5 Slot 7

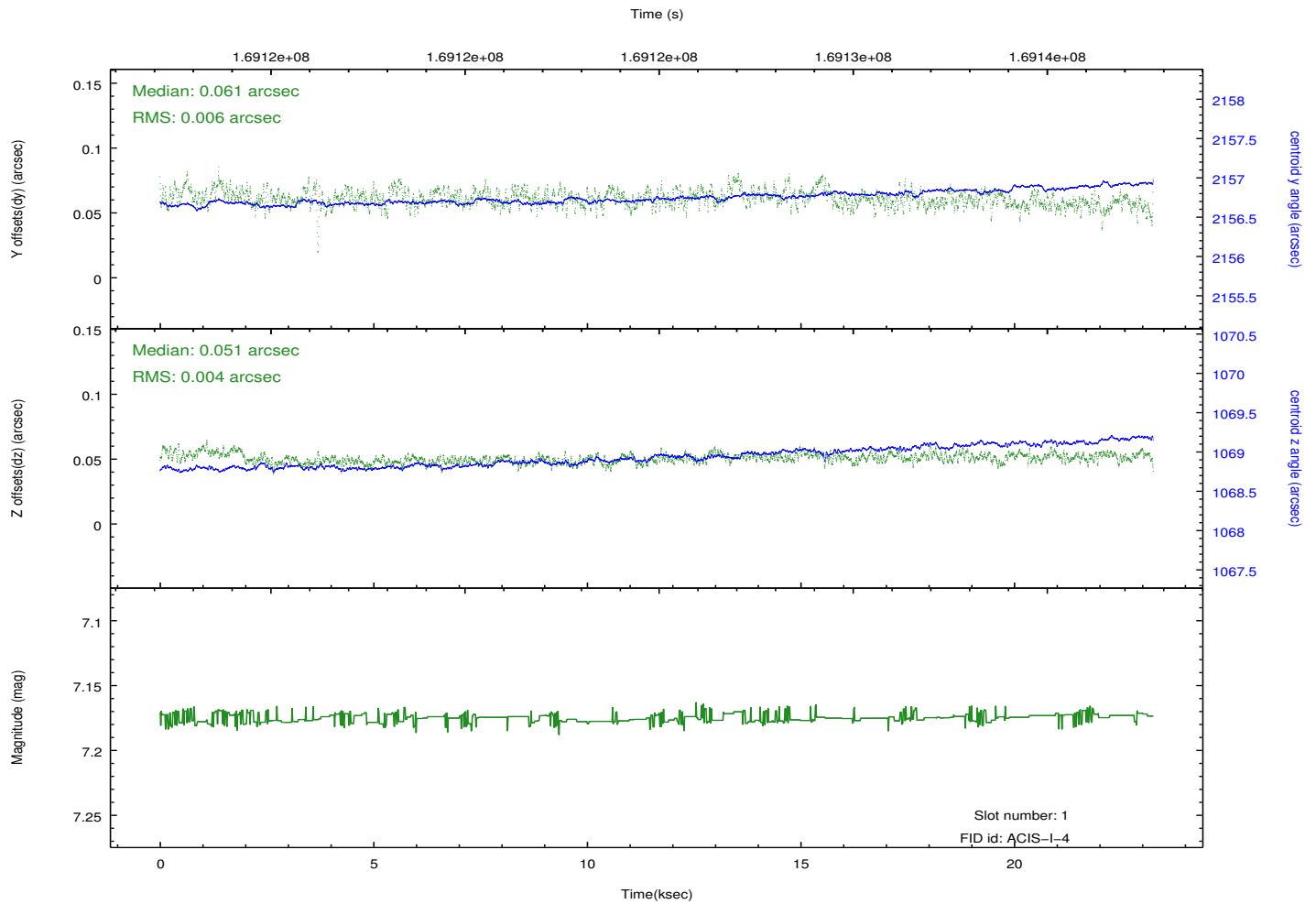
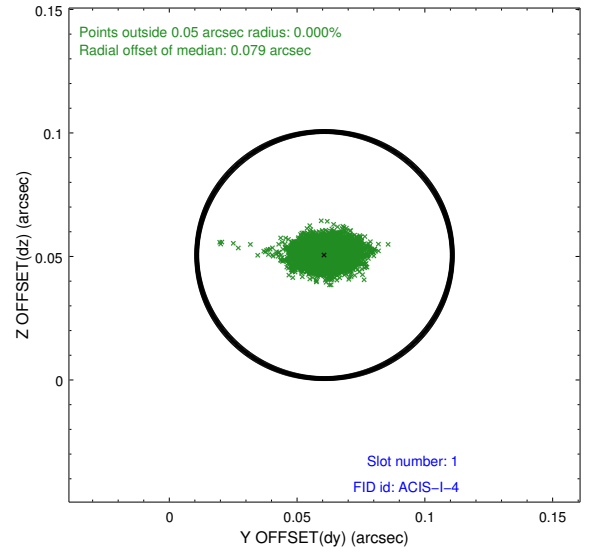
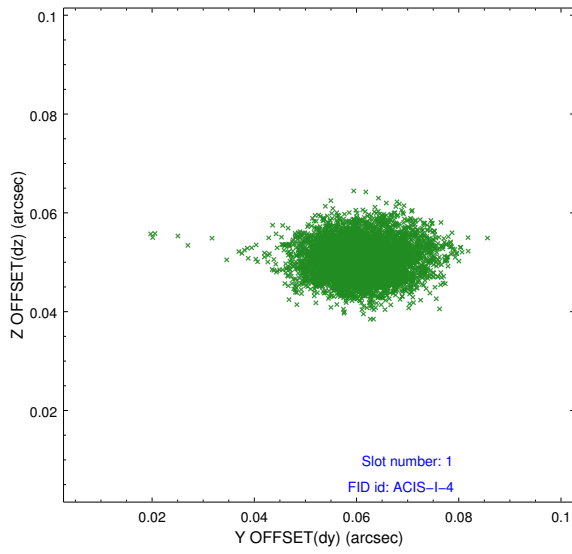


2.5 FID Slots

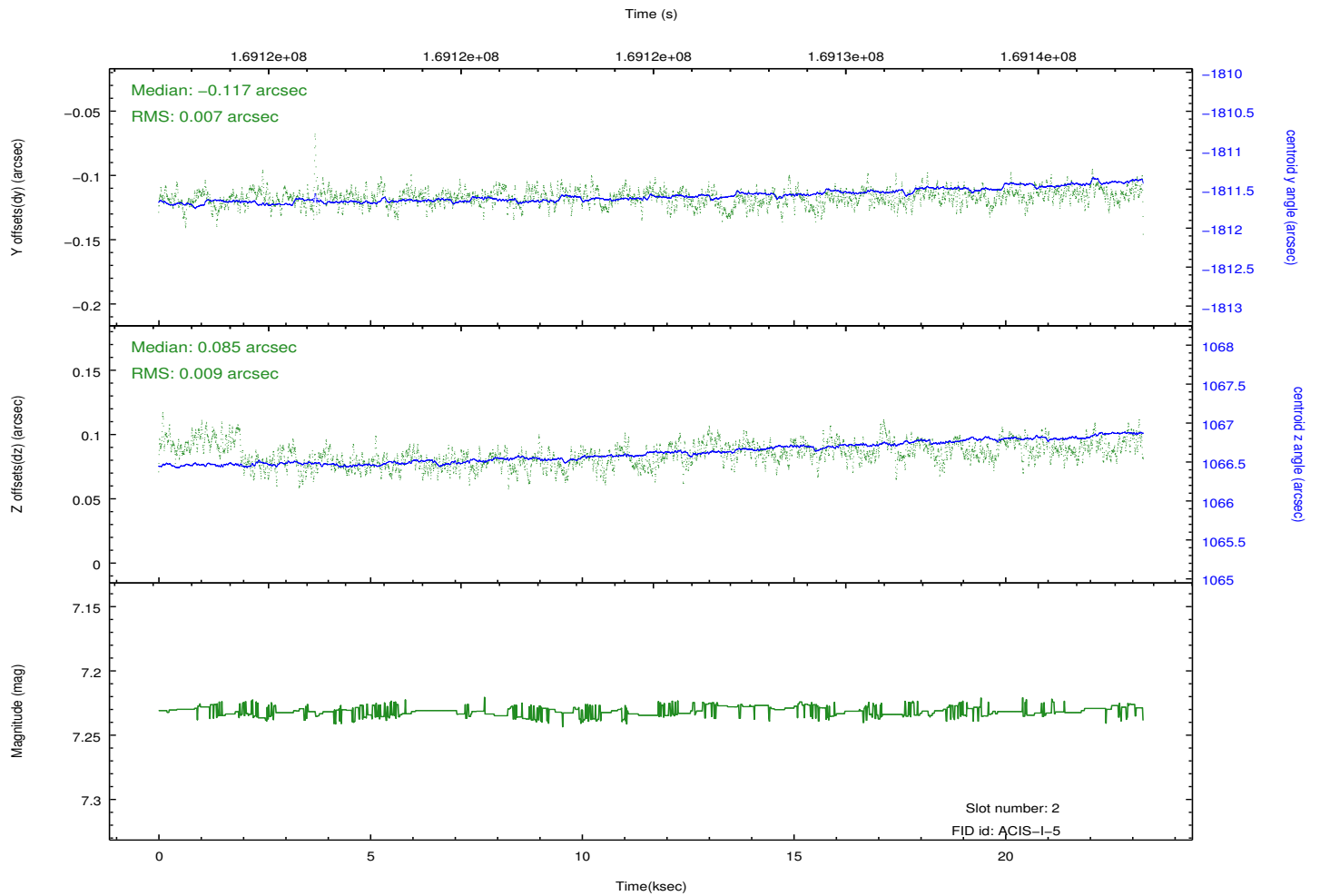
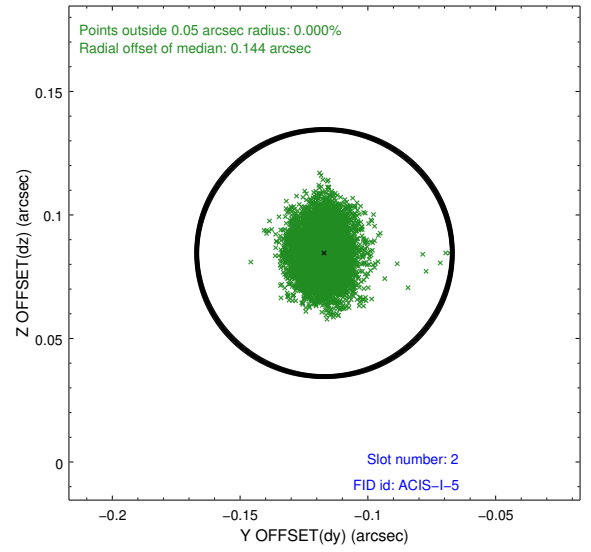
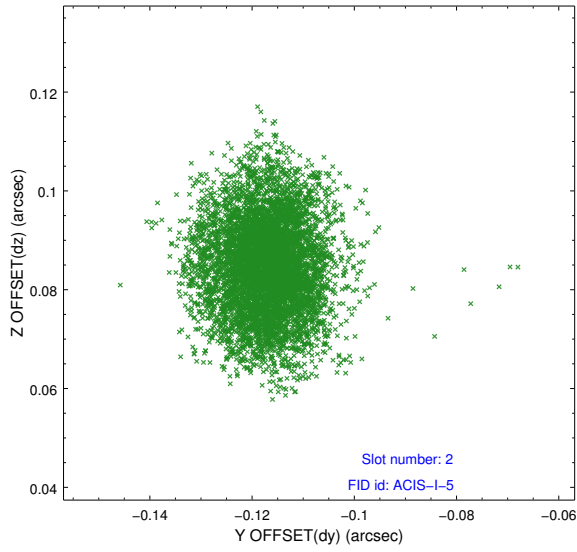
2.5.1 Slot 0



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)	2012.11.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.05

A.2 Comments

Roll preference met.