

V&V Reference Report

L2 ASCDS Version : 8.5.1

Observation 6186 - L2 Version 3
Chandra X-Ray Center

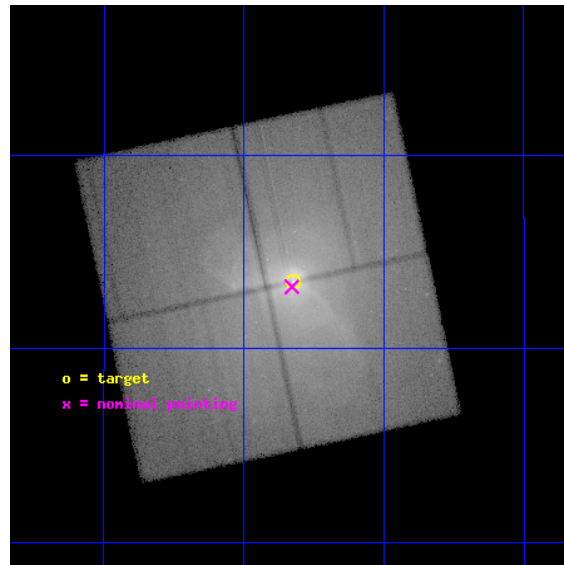
L2 Processing Date : Dec 17 2012

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1 Front

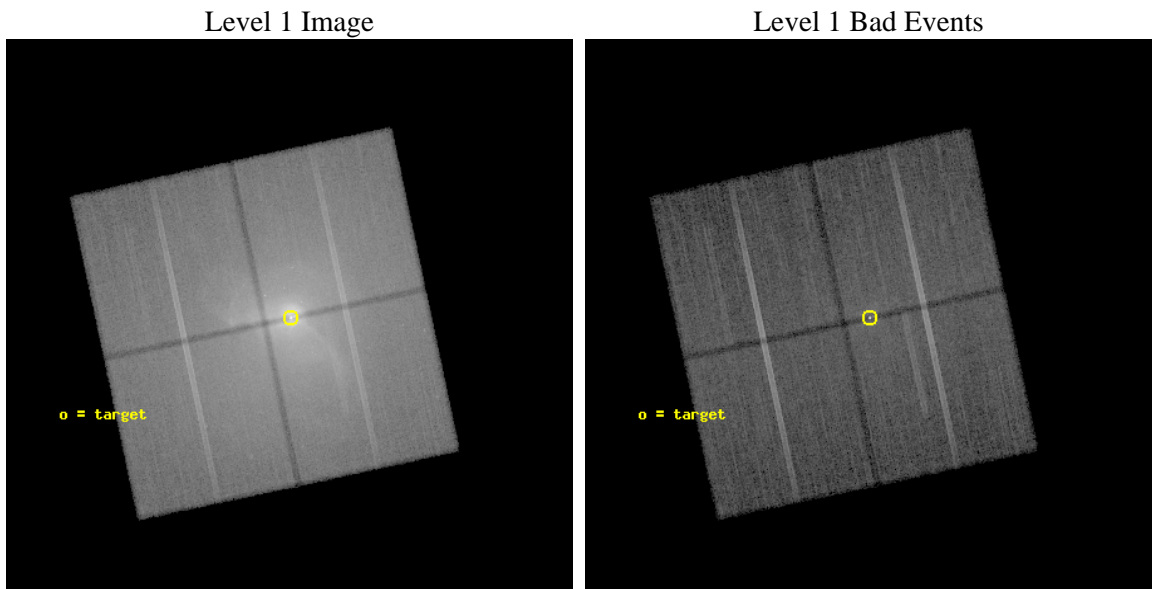
seq_num	800538	Sequence number
obs_id	6186	Observation id
title	The History of AGN Activity in M87 and the Interaction of Nuclear Outbursts with the Surrounding Atmosphere	Proposal title
observer	Dr. william forman	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.70625	Observer's specified target RA [deg]
dec_targ	12.391111	Observer's specified target Dec [deg]
ra_nom	187.70716728136	Nominal RA [deg]
dec_nom	12.386779232543	Nominal Dec [deg]
roll_nom	77.958230964489	Nominal Roll [deg]
revision	3	Processing version of data
ontime	52234.958899379	Sum of GTIs [s]
livetime	51552.470706541	Livetime [s]
ontime0	52225.535968512	Sum of GTIs [s]
ontime1	52219.253988117	Sum of GTIs [s]
ontime2	52231.818008661	Sum of GTIs [s]
ontime3	52234.958899379	Sum of GTIs [s]
l2events	1849184	Number of level 2 events



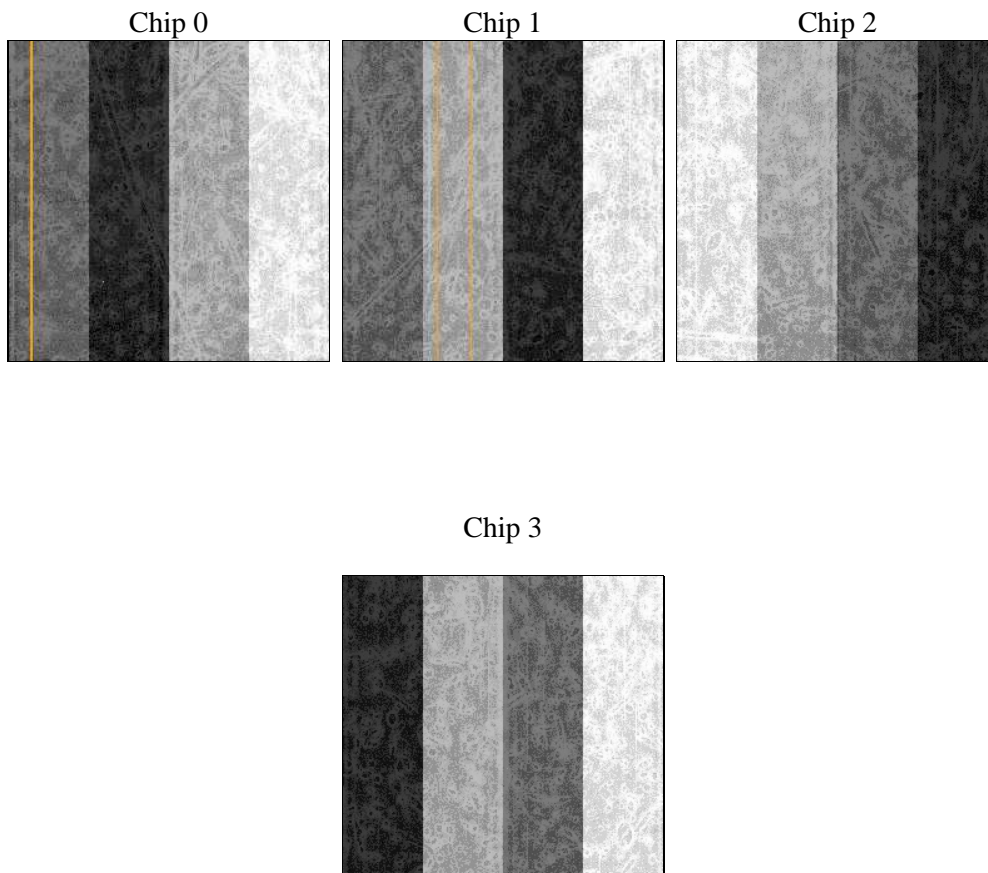
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	52111.216000	[s] Scheduled observation exposure time
ascdsver	8.5.1	Processing system revision	ontime	52234.958899379	Sum of GTIs [s]
caldbver	4.5.5	 	ontime0	52225.535968512	Sum of GTIs [s]
date	2012-12-17T03:57:56	Date and time of file creation	ontime1	52219.253988117	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	52231.818008661	Sum of GTIs [s]
			ontime3	52234.958899379	Sum of GTIs [s]
			l1events	3134959	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	605452	632627	946218	950662
rejected events	272304	273701	312647	301857
rejected %	44%	43%	33%	31%

	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	265770	285259	525043	539135
	43%	45%	55%	56%
grade 1 events	1302	1257	3608	3234
	0%	0%	0%	0%
grade 2 events	34745	37881	59187	59825
	5%	5%	6%	6%
grade 3 events	11540	12441	18430	18967
	1%	1%	1%	1%
grade 4 events	11214	12334	18549	18790
	1%	1%	1%	1%
grade 5 events	12148	13134	13412	14736
	2%	2%	1%	1%
grade 6 events	11317	12702	15032	14958
	1%	2%	1%	1%
grade 7 events	257416	257619	292957	281017
	42%	40%	30%	29%

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	187.715912	187.7071672813611	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.360752	12.38677923254252	Alternating exposures requested	N	N
[deg] Pointing Roll	77.747671	77.95823096448937	[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	-231.592463	-231.5960967419932			
[mm] SIM translation stage offset	-2	-1.996356260936523			
[s] Observation start time (MET)	223602682.184000	223601538.00778			
Observation start date	2005-01-31T23:50:18	2005-01-31T23:32:18			
[s] Observation end time (MET)	223654794.184000	223655030.19769			
Observation end date	2005-02-01T14:18:50	2005-02-01T14:23:50			
Read mode	TIMED	TIMED			

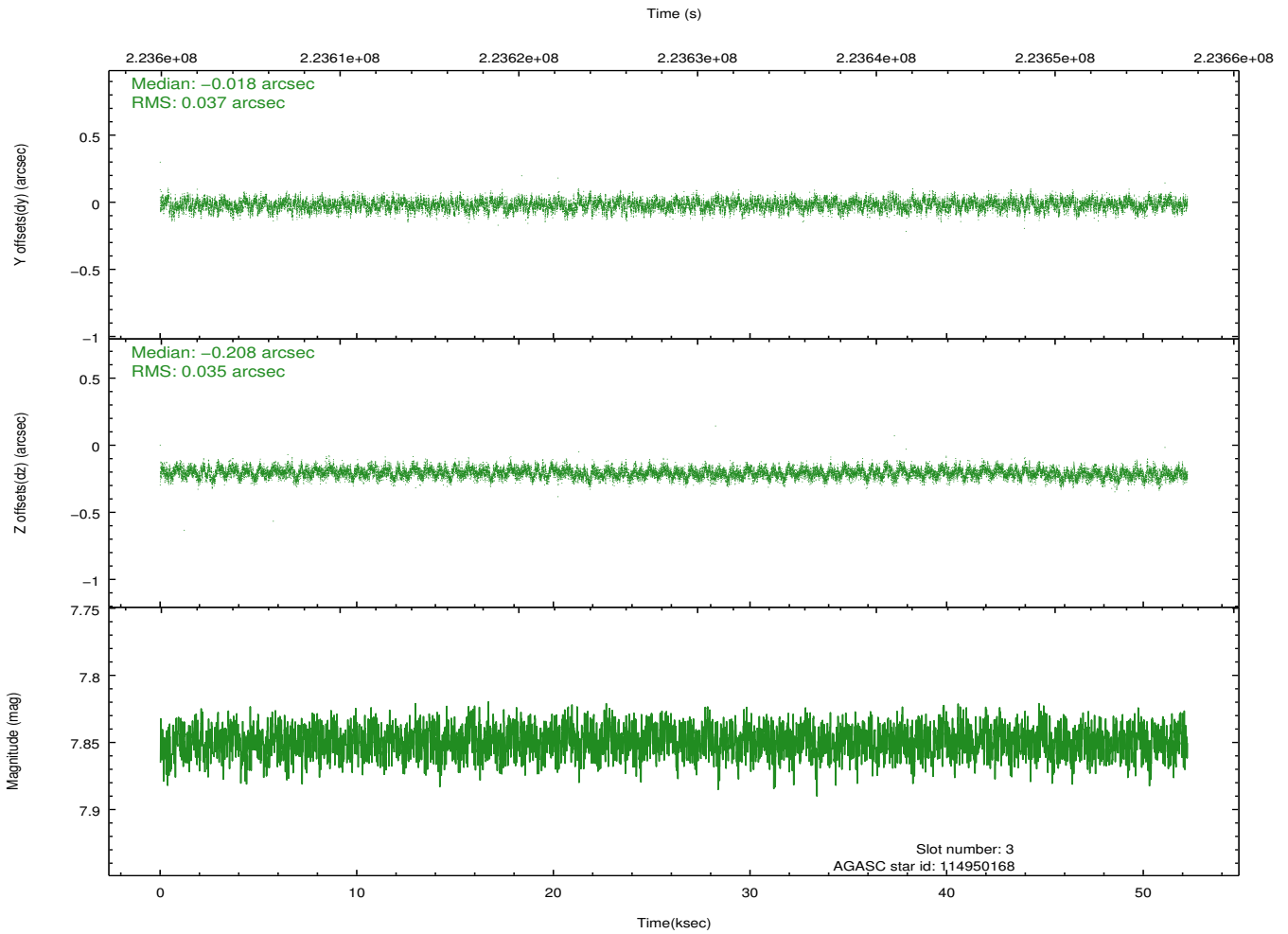
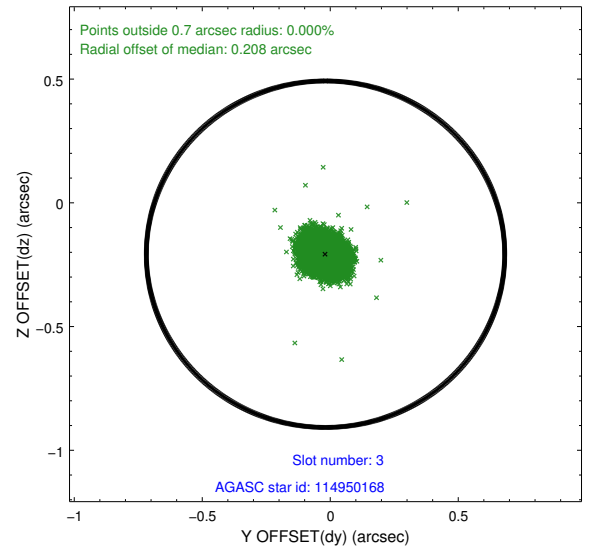
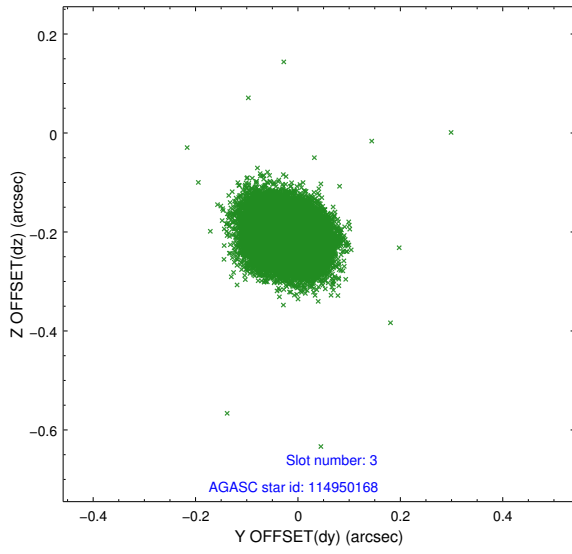
2.3 Aspect

Slot Statistics

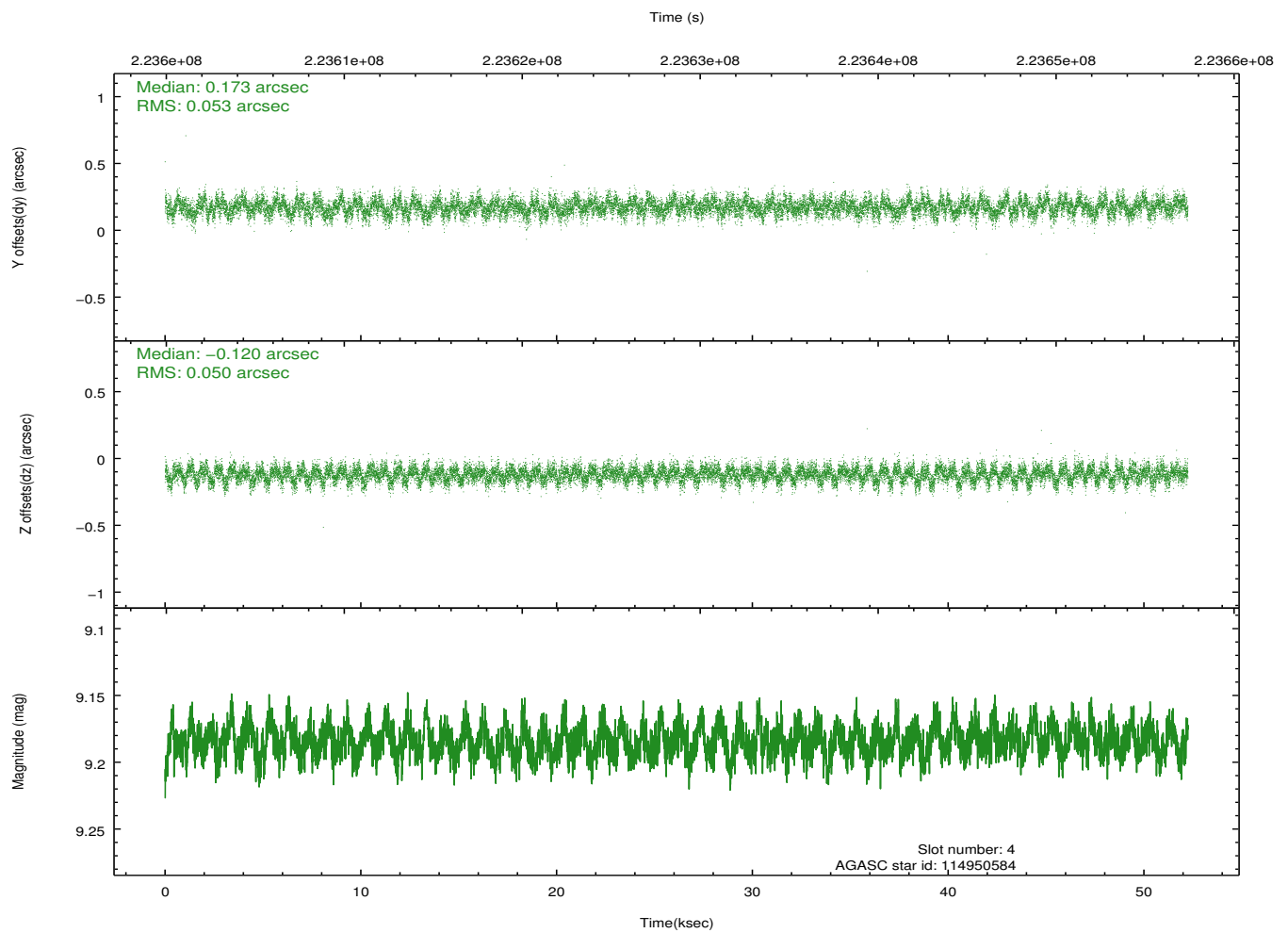
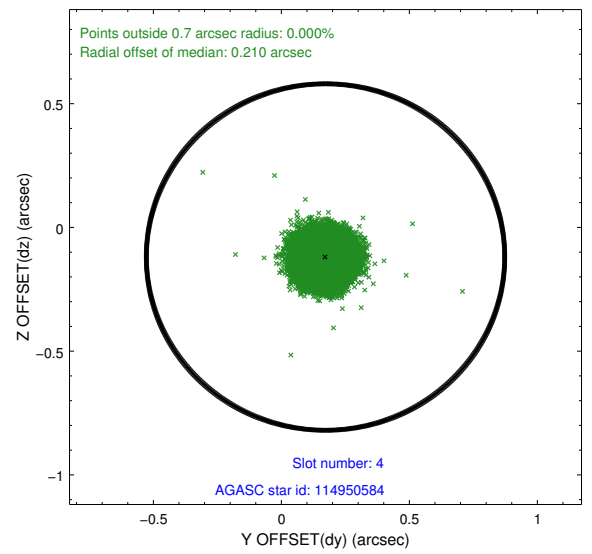
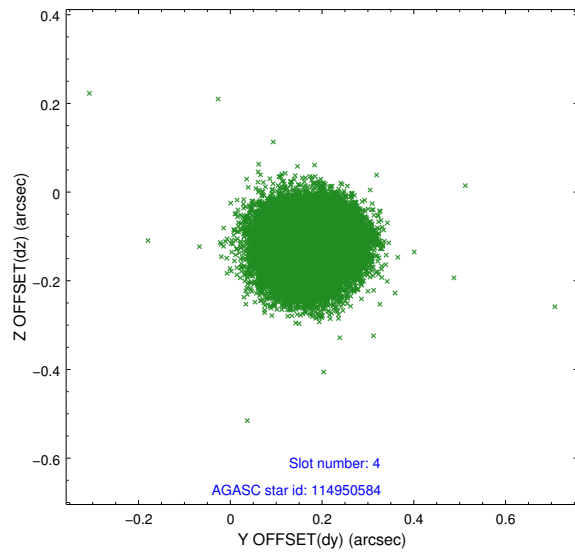
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	12742	0.012	0.009	0.018	0.043	0.000000	0.000000	933.44	-873.42
1	FID	ACIS-I-5	7.23	12743	-0.192	0.023	0.019	0.033	0.000000	0.000000	-1814.87	1024.13
2	FID	ACIS-I-6	7.25	12741	0.089	0.038	0.012	0.019	0.000000	0.000000	399.12	1668.59
3	GUIDE	114950168	7.85	25483	-0.018	-0.208	0.054	0.088	187.143398	12.117441	-1281.81	1783.87
4	GUIDE	114950584	9.18	25467	0.173	-0.120	0.078	0.124	187.487323	11.827248	-2047.41	379.93
5	GUIDE	114952824	8.56	25477	-0.150	-0.113	0.063	0.101	187.703904	12.486727	433.96	138.06
6	GUIDE	114955056	8.33	25477	0.014	0.325	0.063	0.103	187.914001	12.127854	-670.96	-858.45
7	GUIDE	114955568	7.51	25484	-0.015	0.117	0.060	0.100	187.061916	11.826551	-2365.91	1844.83

2.4 Star Slots

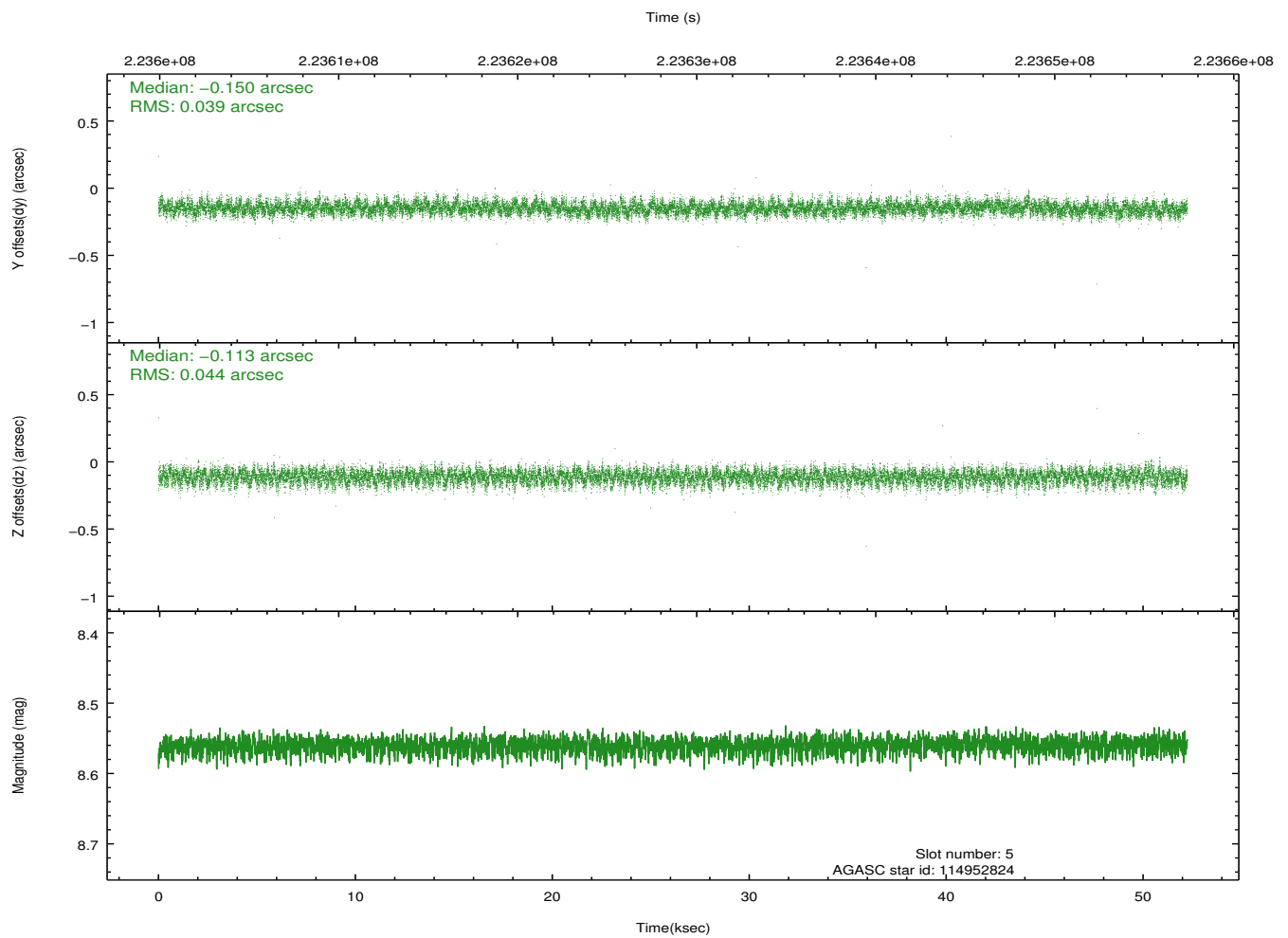
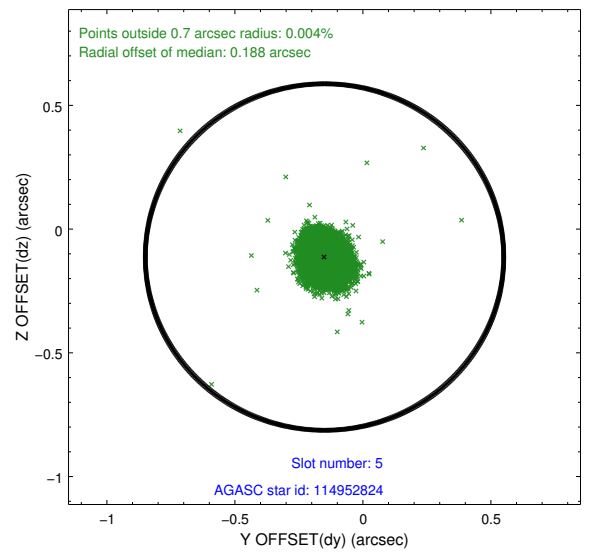
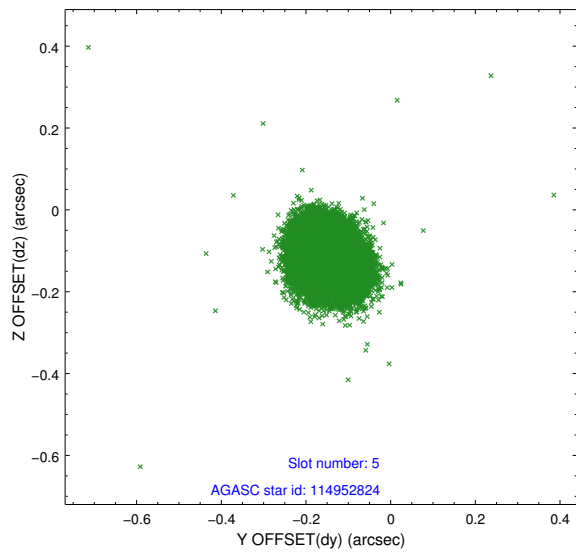
2.4.1 Slot 3



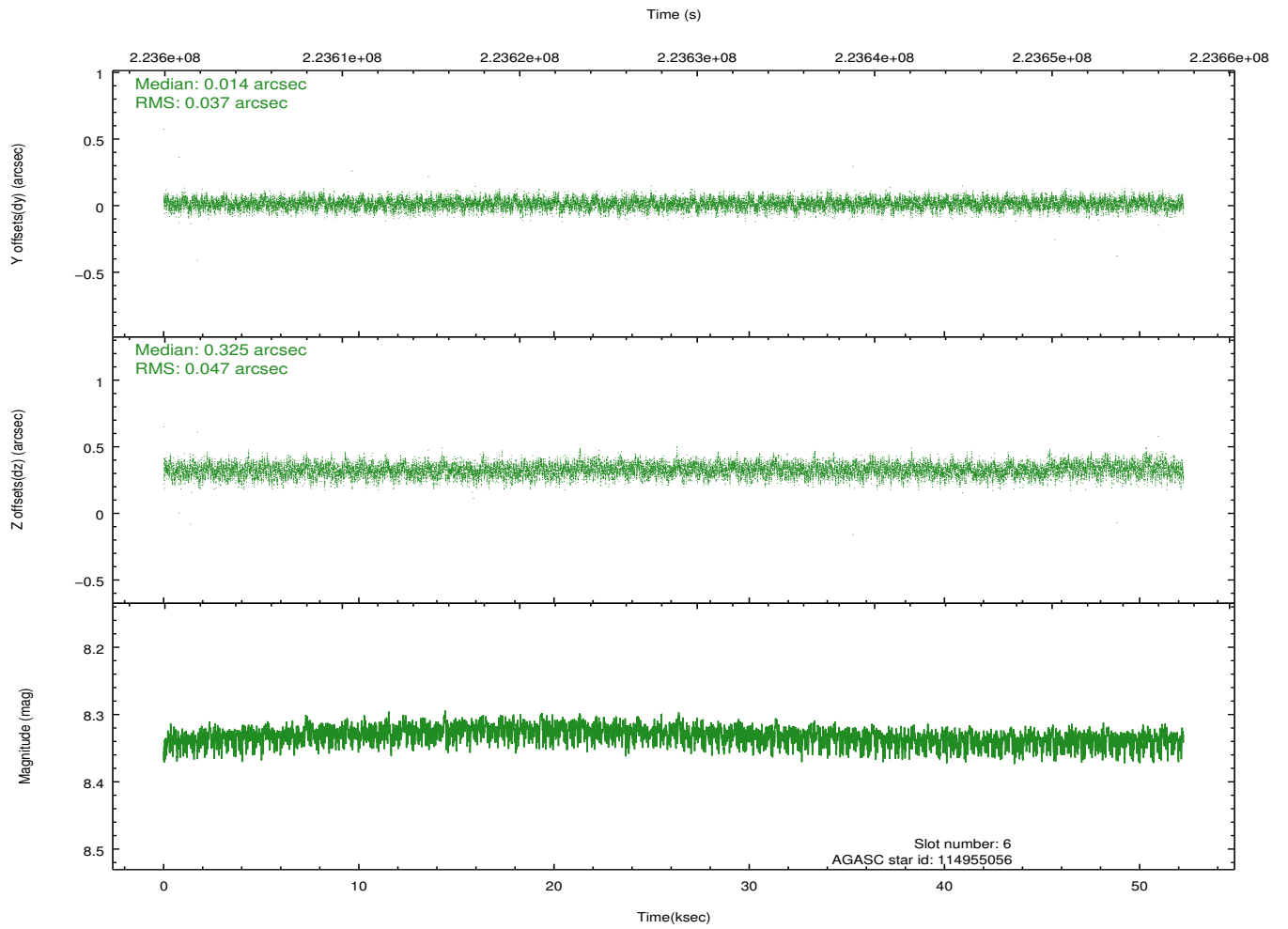
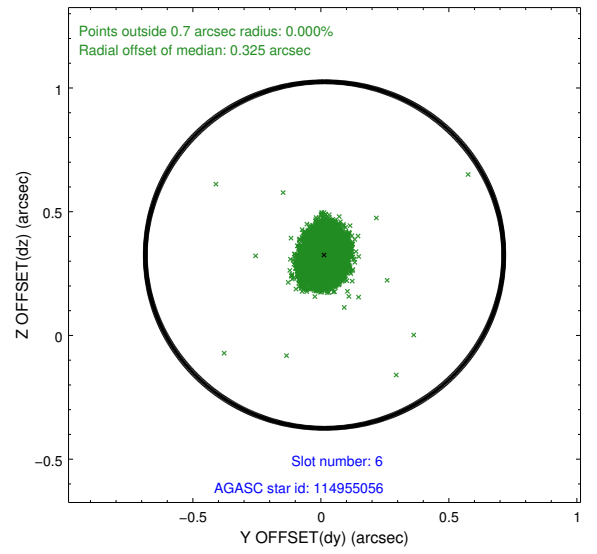
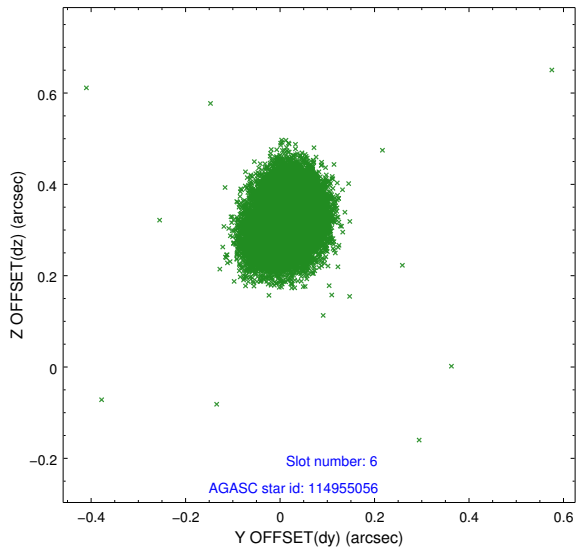
2.4.2 Slot 4



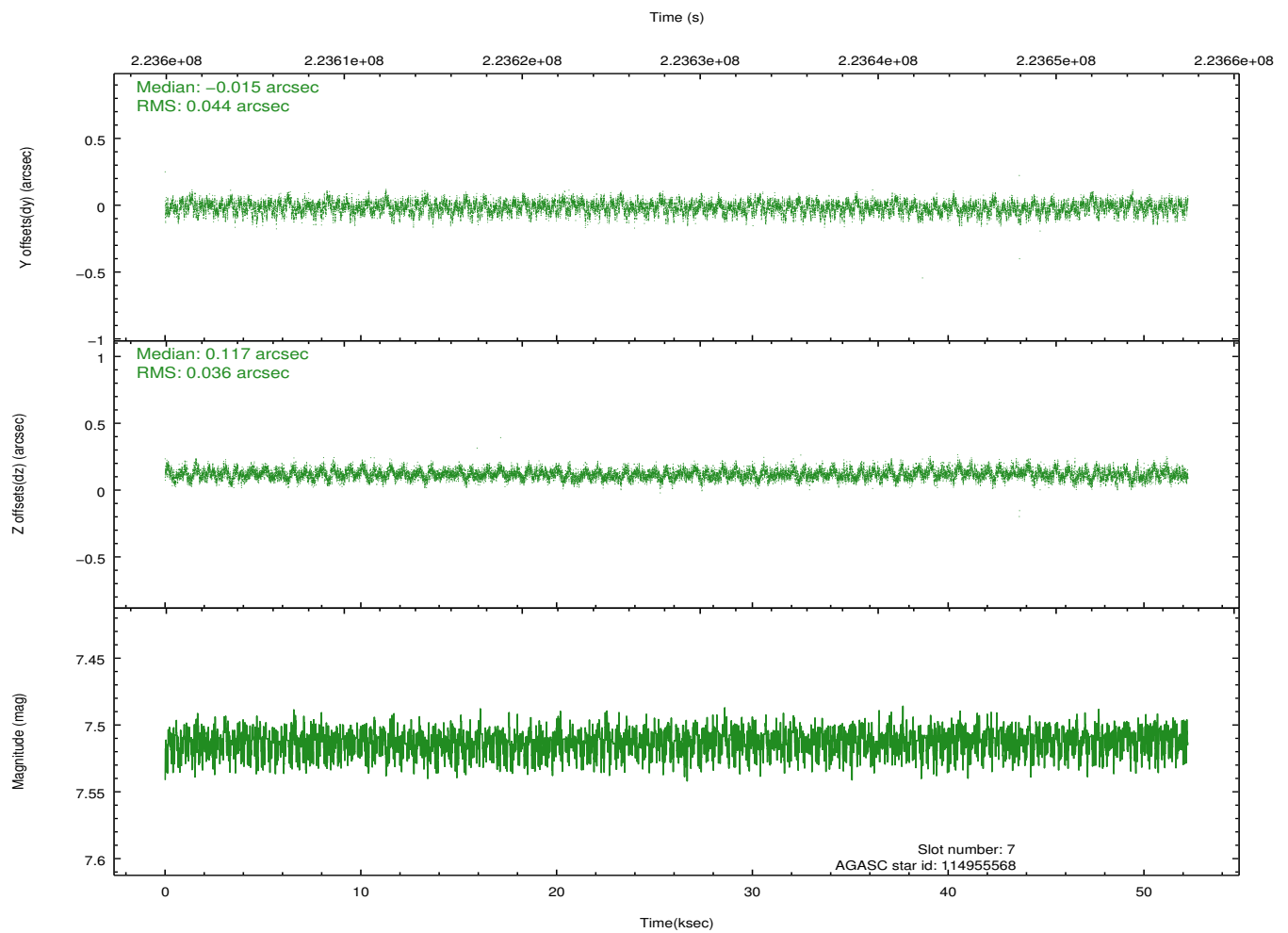
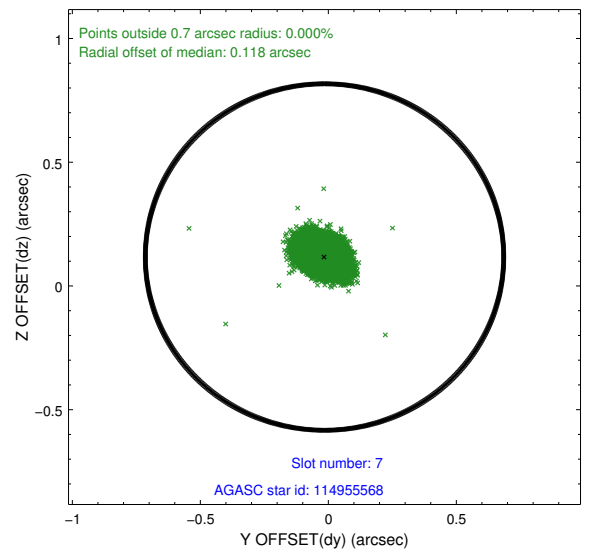
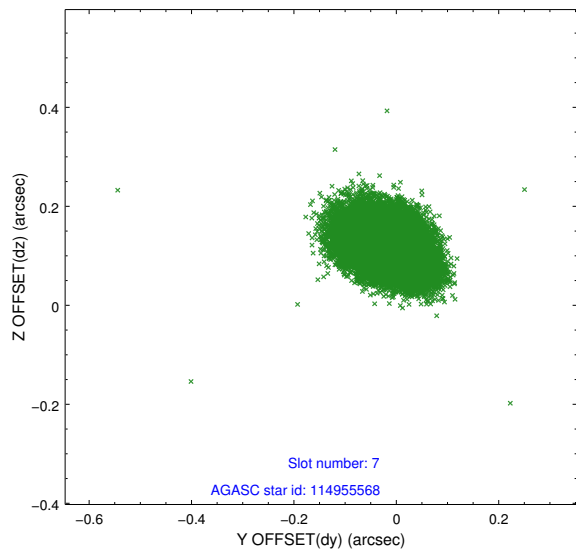
2.4.3 Slot 5



2.4.4 Slot 6

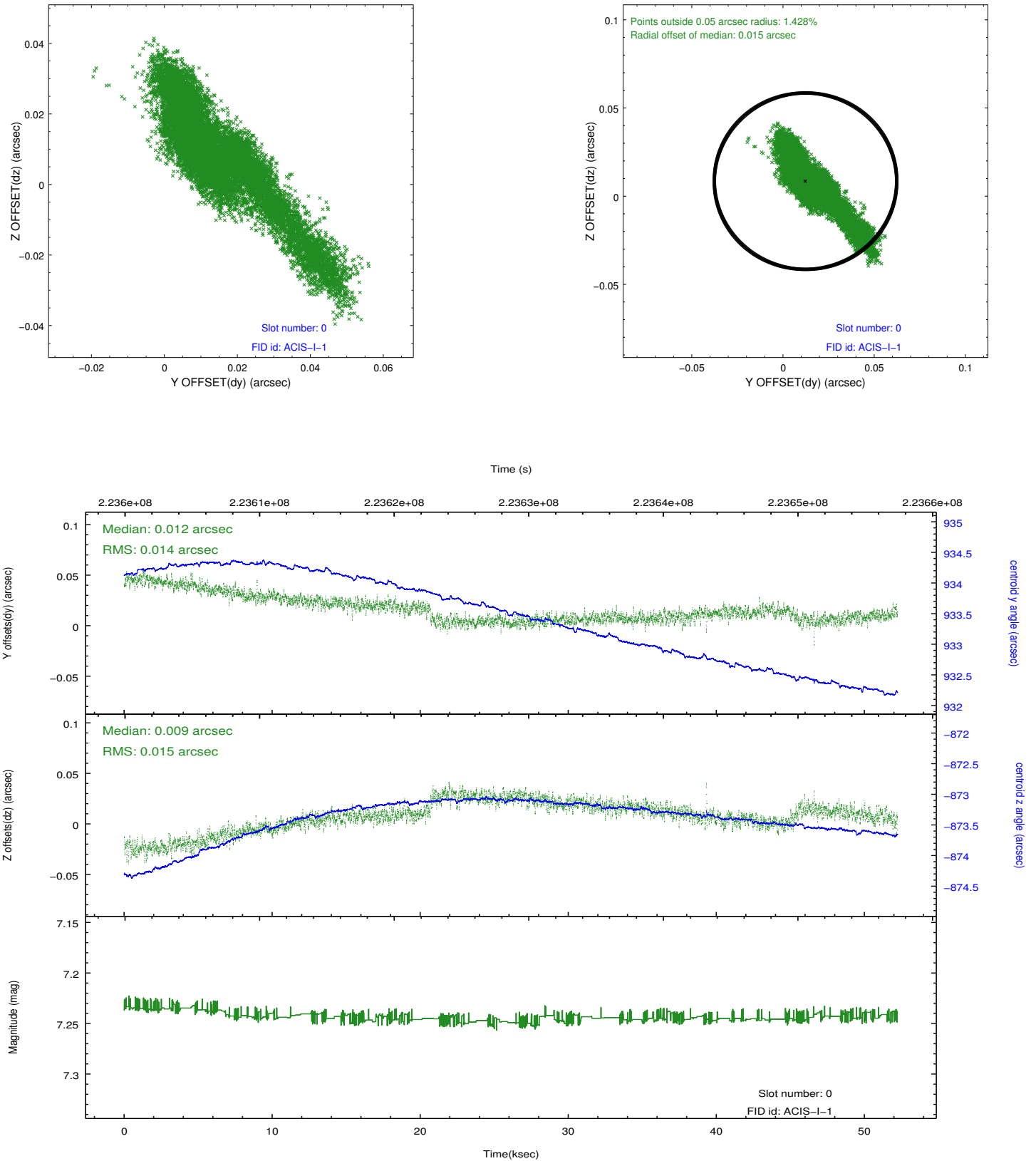


2.4.5 Slot 7

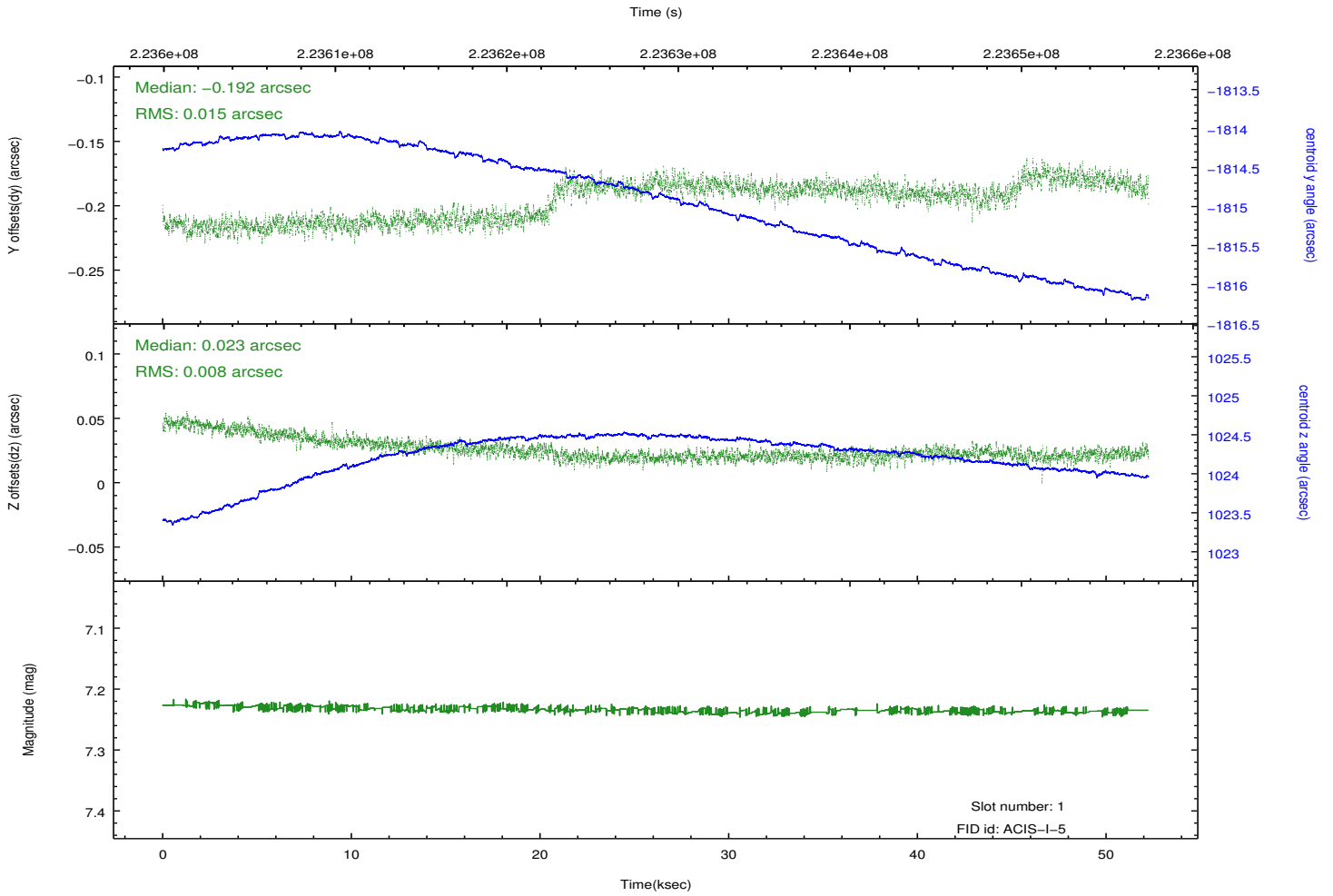
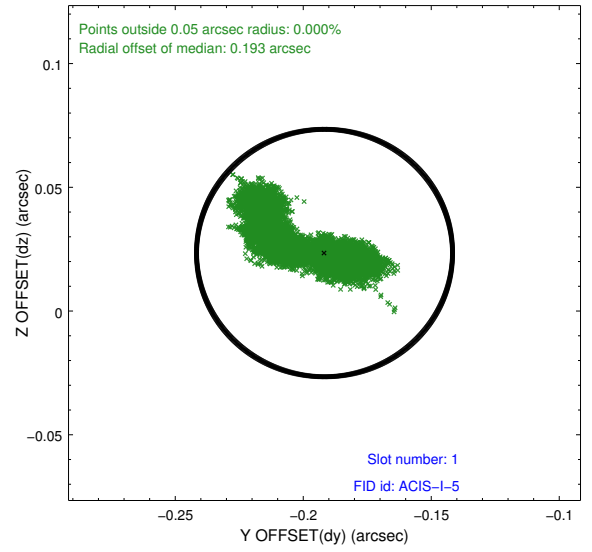
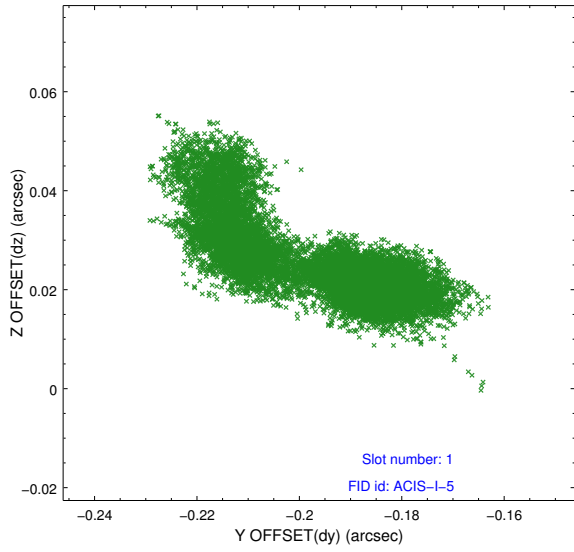


2.5 FID Slots

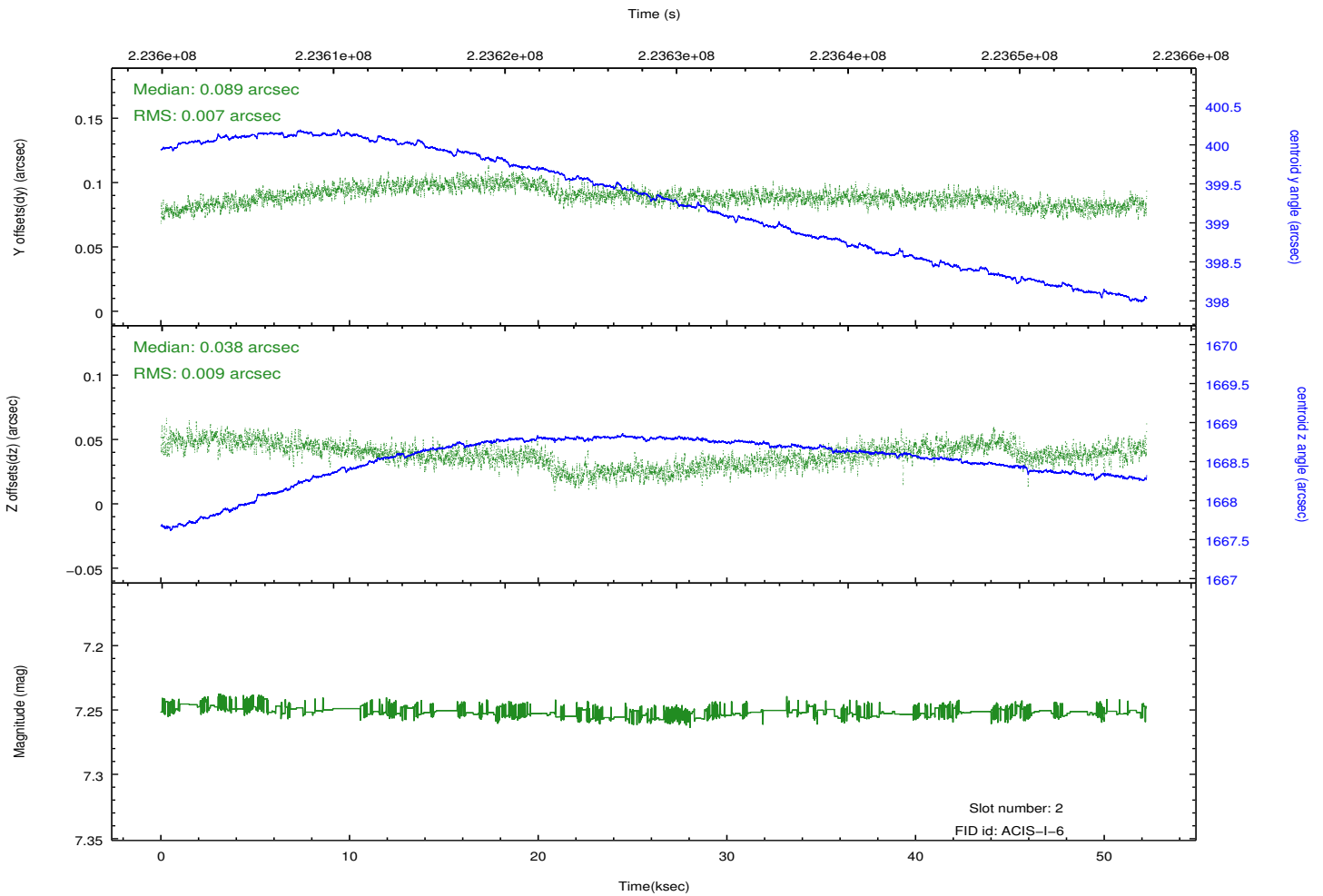
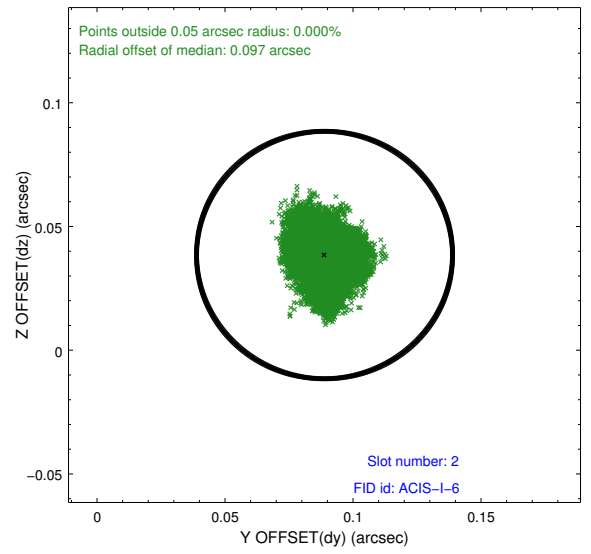
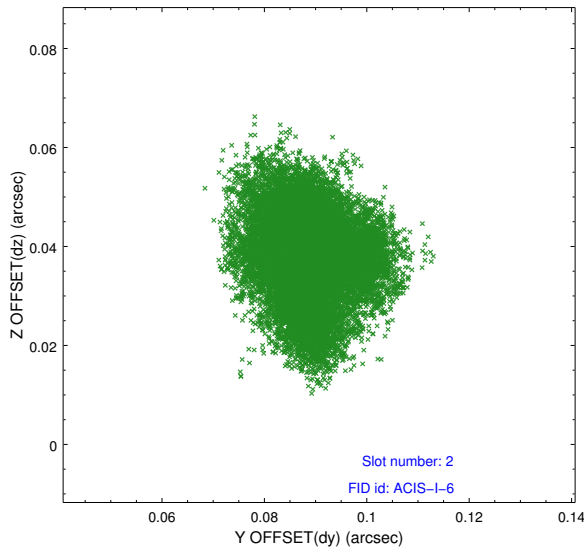
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.01.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	52.23495

A.2 Comments

The target position falls on the gap between the CCD chips and has been dithered over this gap.