

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 6145 - L2 Version 3
Chandra X-Ray Center

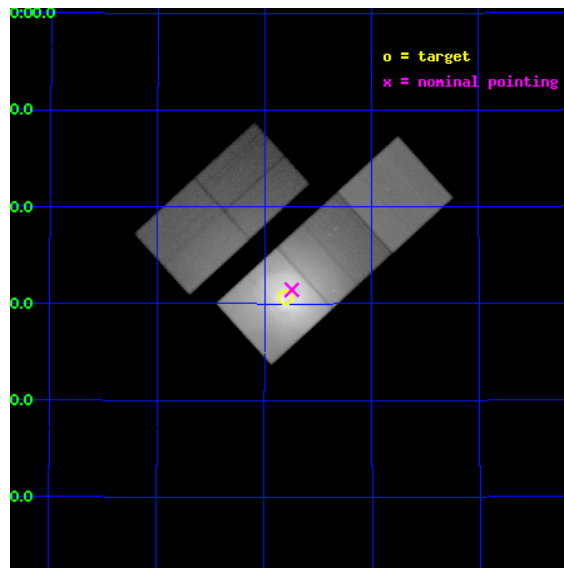
L2 Processing Date : Dec 11 2012

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1 Front

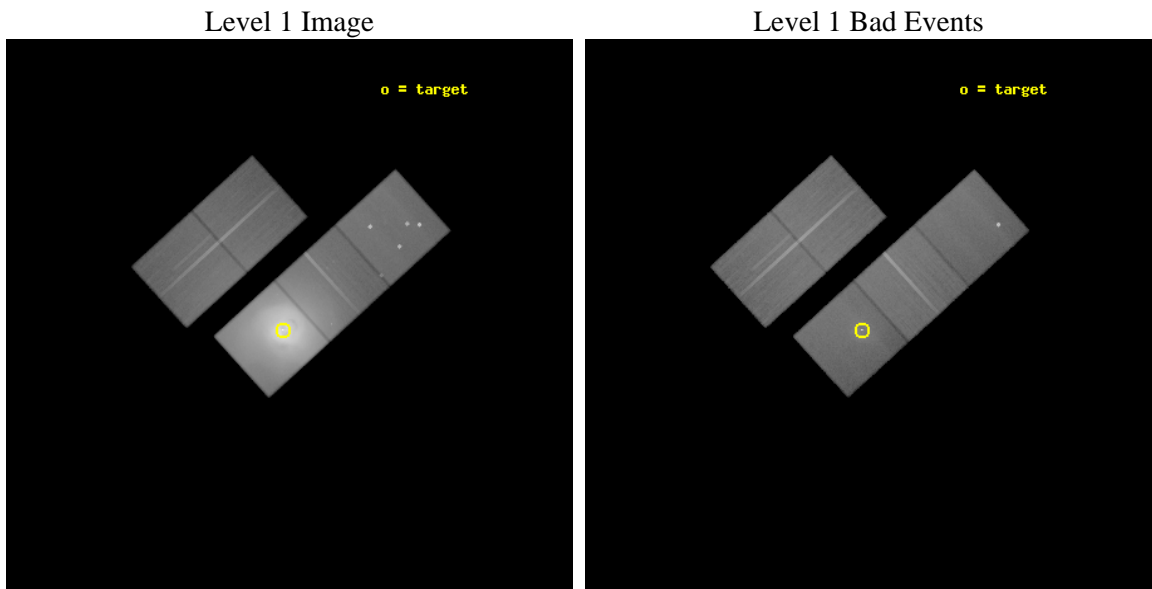
seq_num	800397	Sequence number
obs_id	6145	Observation id
title	A Megasecond Image of the Core of the Perseus Cluster	Proposal tit
observer	Professor Andrew Fabian	Principal investigator
object	Abell 426	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.950833	Observer's specified target RA [deg]
dec_targ	41.511722	Observer's specified target Dec [deg]
ra_nom	49.936042499191	Nominal RA [deg]
dec_nom	41.524110298607	Nominal Dec [deg]
roll_nom	137.69796279112	Nominal Roll [deg]
revision	3	Processing version of data
ontime	86127.299834371	Sum of GTIs [s]
livetime	85001.983256039	Livetime [s]
ontime2	86124.158844113	Sum of GTIs [s]
ontime3	86121.017853975	Sum of GTIs [s]
ontime5	86127.299834371	Sum of GTIs [s]
ontime6	86127.299834371	Sum of GTIs [s]
ontime7	86127.299834371	Sum of GTIs [s]
l2events	8496511	Number of level 2 events



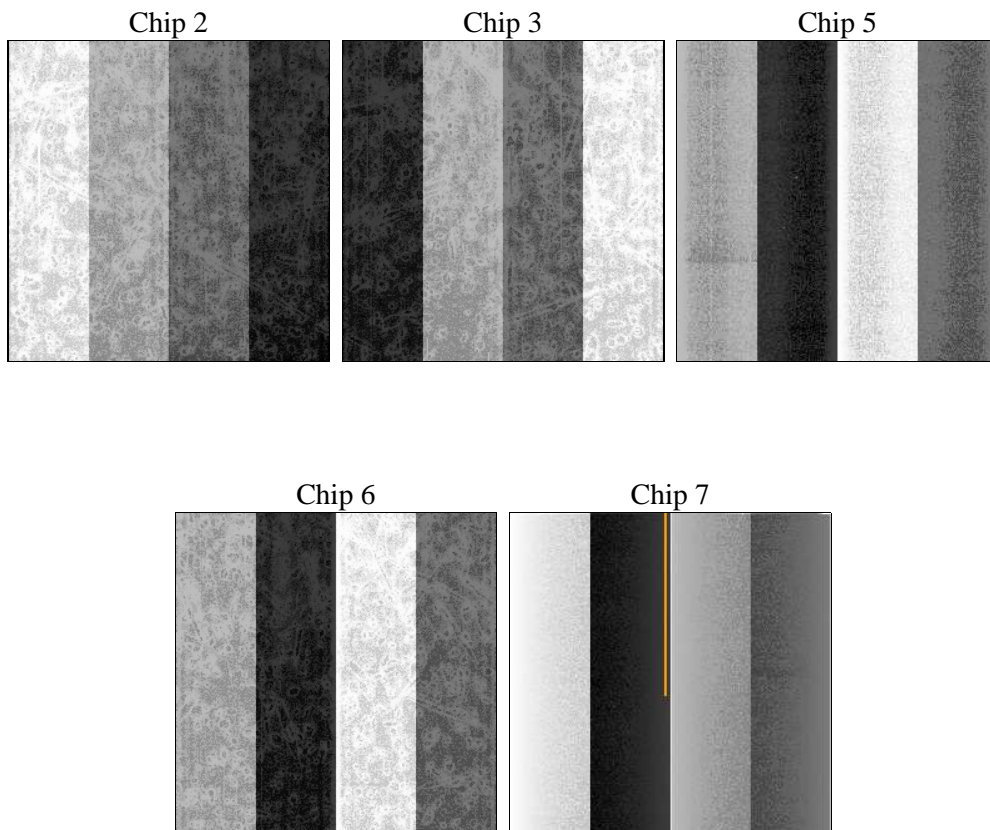
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	86000.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	86127.299834371	Sum of GTIs [s]
caldbver	4.5.4	 	ontime2	86124.158844113	Sum of GTIs [s]
date	2012-12-10T18:46:41	Date and time of file creation	ontime3	86121.017853975	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	86127.299834371	Sum of GTIs [s]
			ontime6	86127.299834371	Sum of GTIs [s]
			ontime7	86127.299834371	Sum of GTIs [s]
			l1events	11218421	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	781947	891171	976947	1472051	7096305	grade 0 events	160276	267601	124538	709084	1819732
rejected events	554097	530799	420107	559554	443864		20%	30%	12%	48%	25%
rejected %	70%	59%	43%	38%	6%	grade 1 events	1031	1670	751	3249	5014
							0%	0%	0%	0%	0%
						grade 2 events	29946	42802	156366	101397	1751950
							3%	4%	16%	6%	24%
						grade 3 events	11839	16286	29012	33268	780372
							1%	1%	2%	2%	10%
						grade 4 events	11920	16152	27237	33378	768585
							1%	1%	2%	2%	10%
						grade 5 events	19170	23421	63990	26055	113373
							2%	2%	6%	1%	1%
						grade 6 events	14586	18571	222496	37733	1548224
							1%	2%	22%	2%	21%
						grade 7 events	533179	504668	352557	527887	309055
							68%	56%	36%	35%	4%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	49.971694	49.93604249919051	Subarray requested	NONE	NONE
[deg] Pointing Dec	41.518664	41.52411029860734	Alternating exposures requested	N	N
[deg] Pointing Roll	137.517700	137.6979627911239	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	214613012.184000	214611776.1284			
Observation start date	2004-10-19T22:42:28	2004-10-19T22:22:56			
[s] Observation end time (MET)	214699012.184000	214699150.71981			
Observation end date	2004-10-20T22:35:48	2004-10-20T22:39:10			
Read mode	TIMED	TIMED			

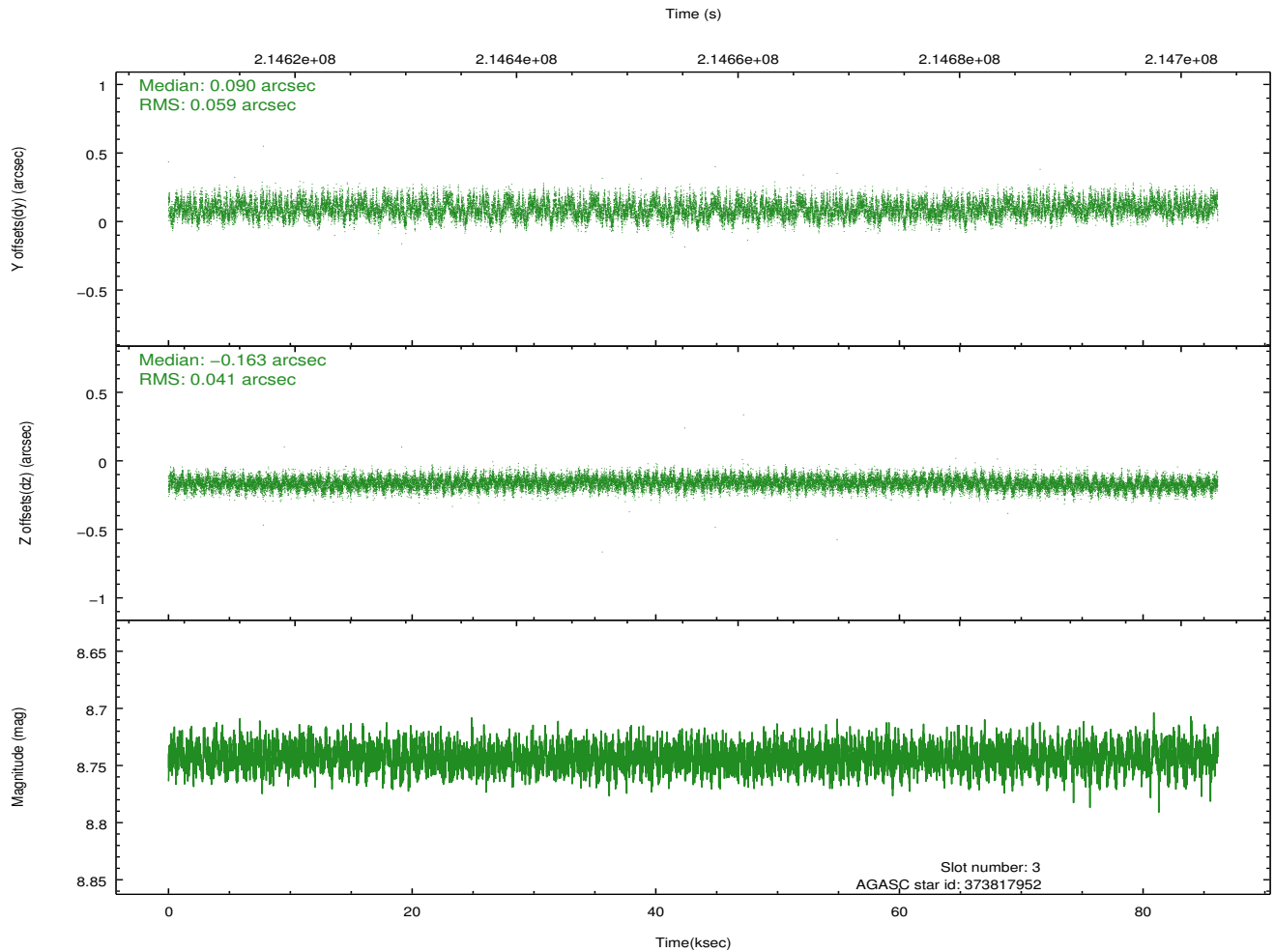
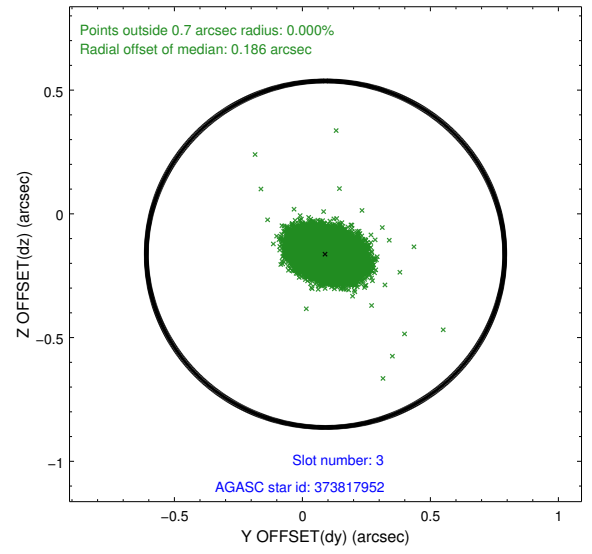
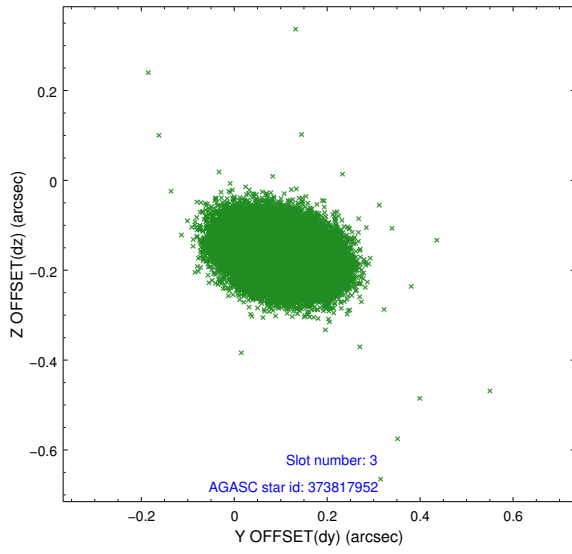
2.3 Aspect

Slot Statistics

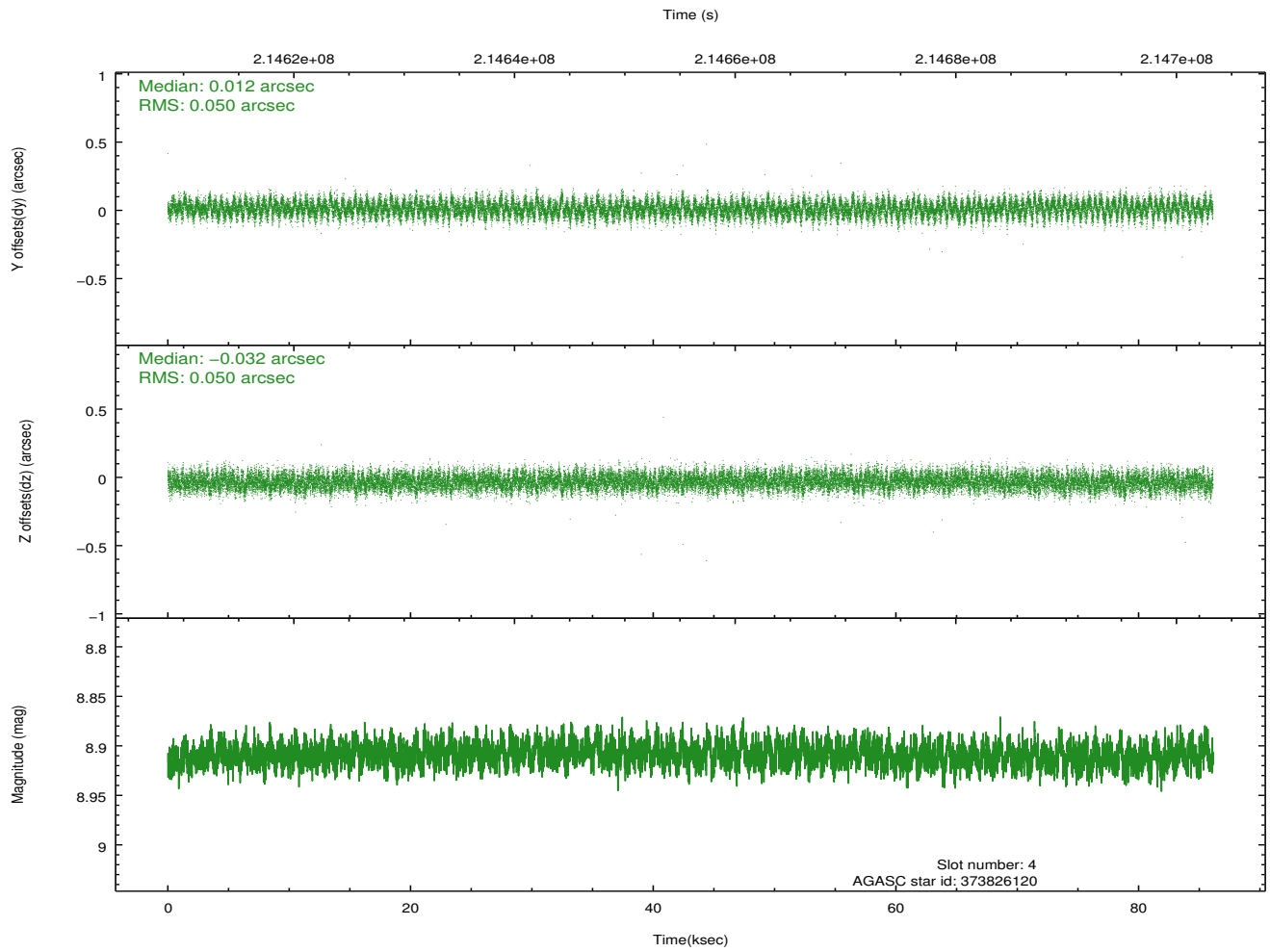
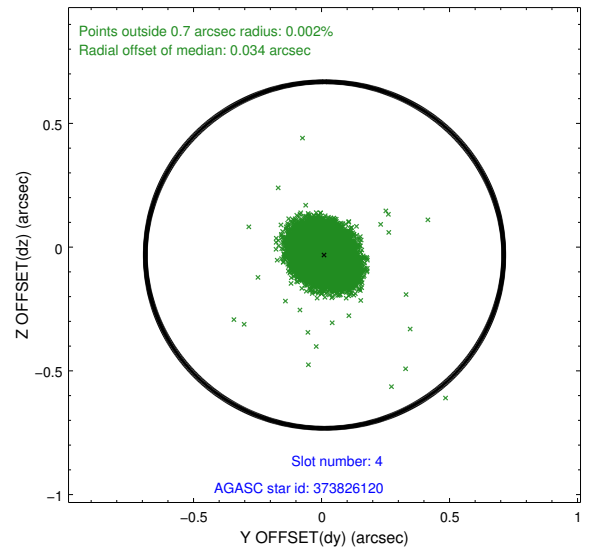
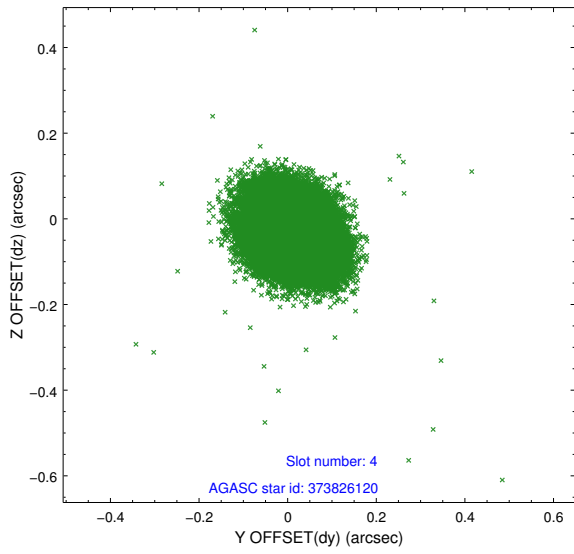
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	21008	-0.056	-0.047	0.013	0.025	0.000000	0.000000	-758.73	-1730.56
1	FID	ACIS-S-4	7.21	21008	0.100	0.040	0.011	0.024	0.000000	0.000000	2154.72	178.11
2	FID	ACIS-S-5	7.23	21008	-0.073	0.016	0.013	0.022	0.000000	0.000000	-1811.70	171.64
3	GUIDE	373817952	8.74	41774	0.090	-0.163	0.076	0.124	49.913424	40.978510	-1196.45	1540.81
4	GUIDE	373826120	8.91	41998	0.012	-0.032	0.075	0.121	49.738165	41.186341	-340.78	1309.03
5	GUIDE	374357808	8.68	42002	-0.150	0.089	0.071	0.118	49.921429	42.176083	1697.58	-1654.46
6	GUIDE	376057824	8.36	42003	0.046	0.105	0.081	0.130	50.665569	41.926280	-374.08	-2342.69
7	GUIDE	374352576	9.71	41983	0.006	0.001	0.104	0.172	48.746850	41.454001	2295.75	2386.79

2.4 Star Slots

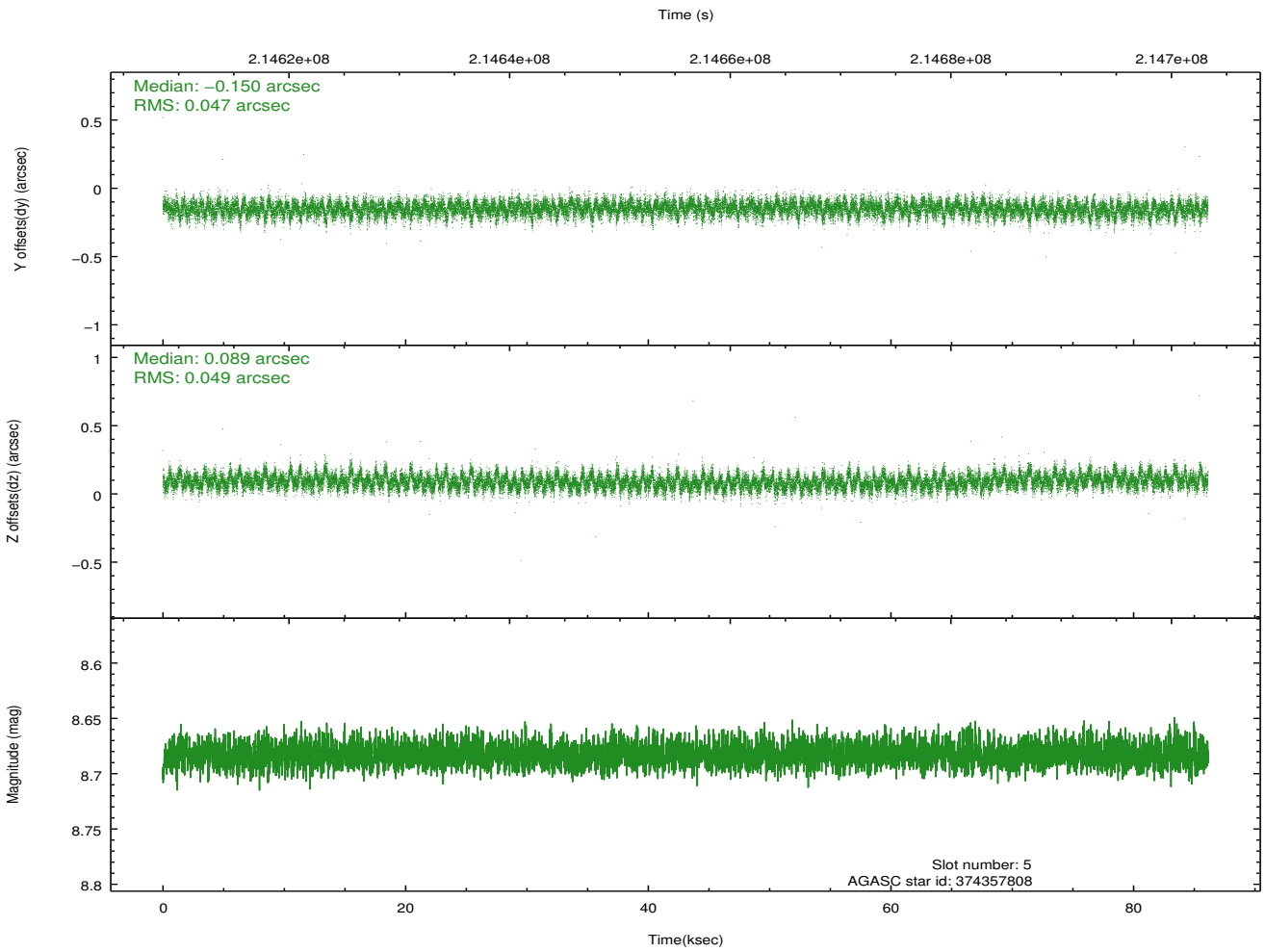
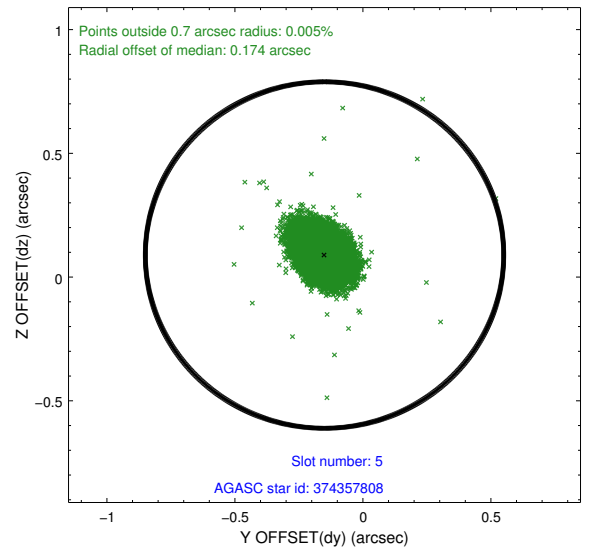
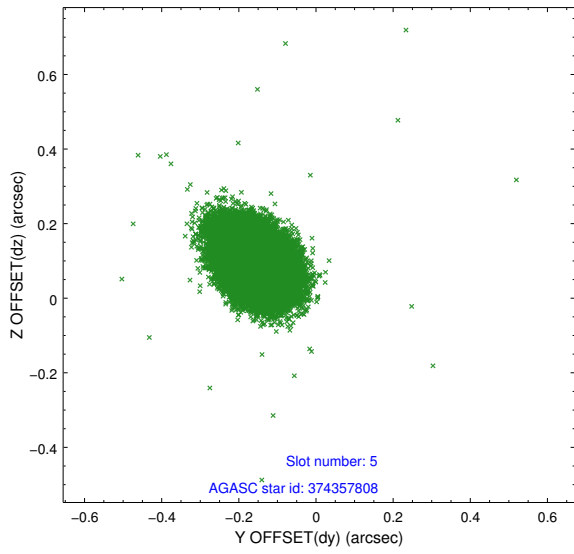
2.4.1 Slot 3



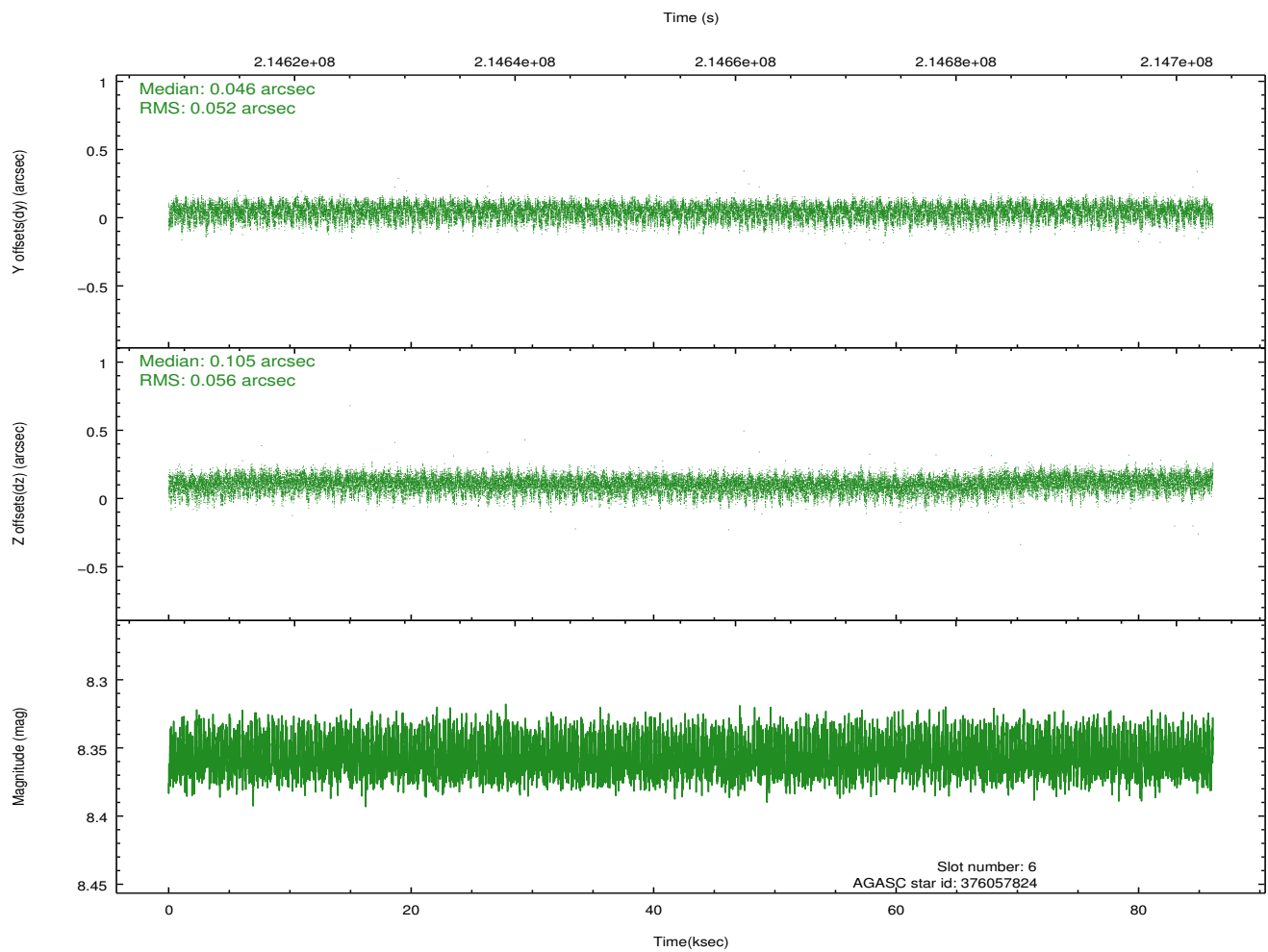
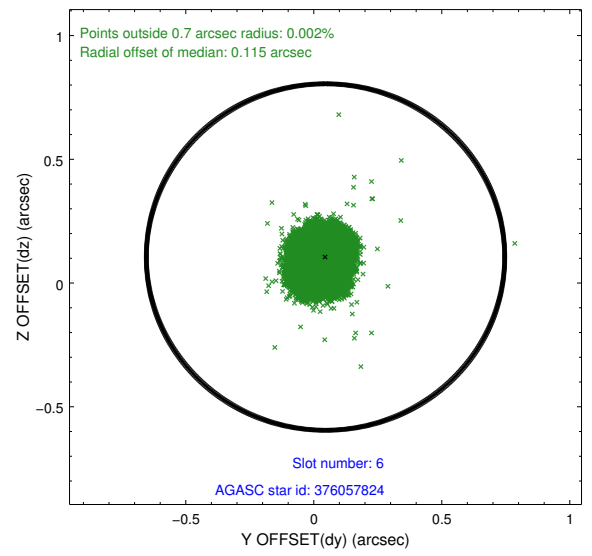
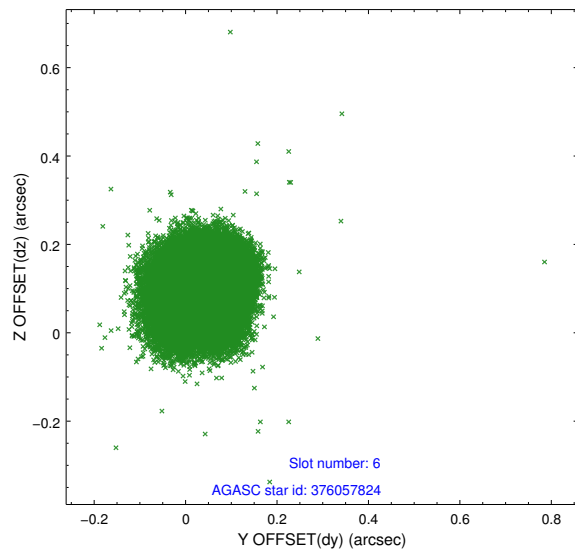
2.4.2 Slot 4



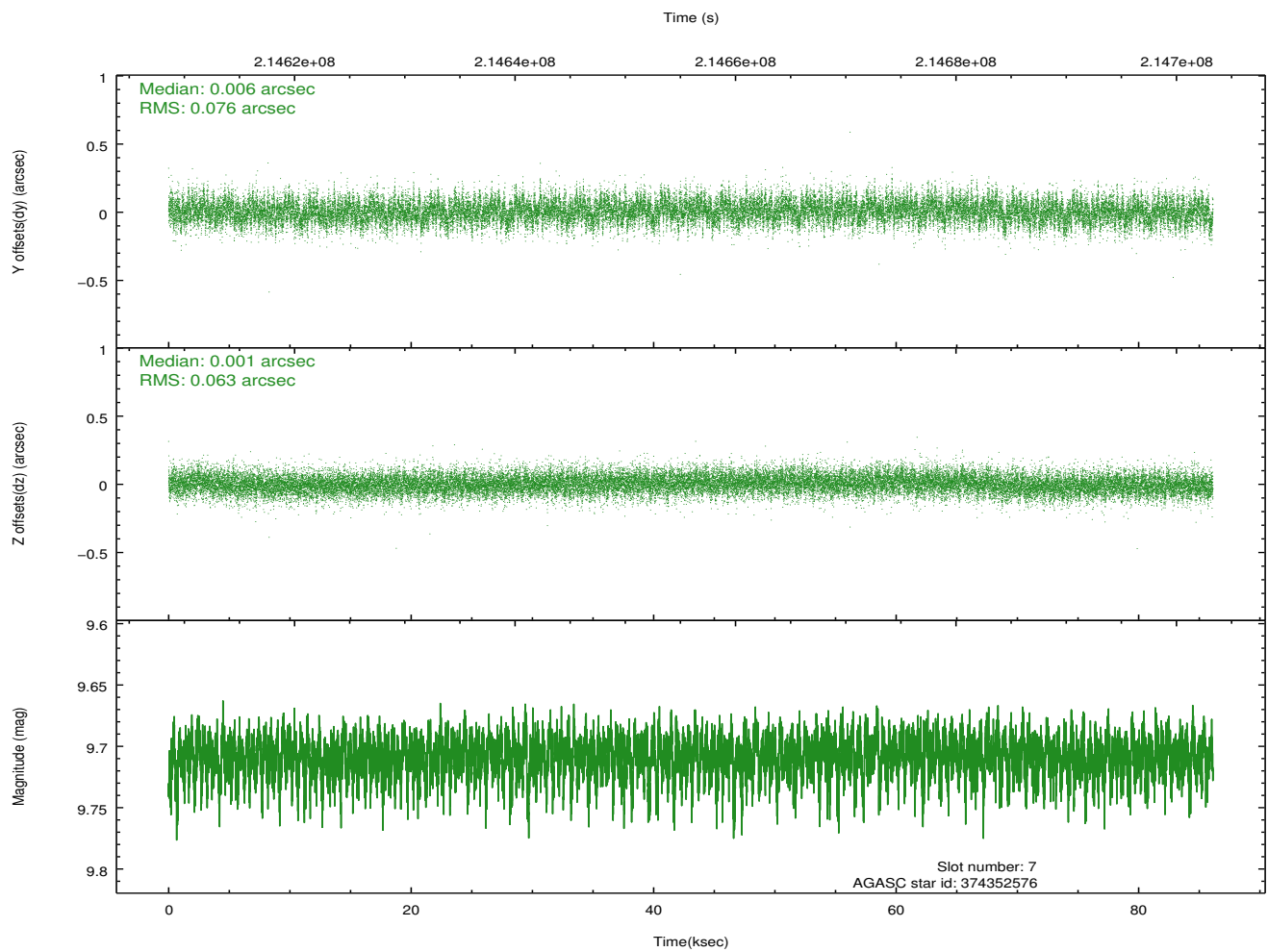
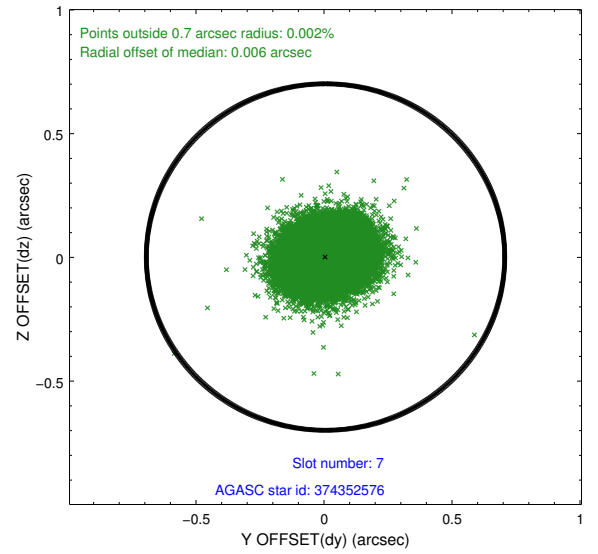
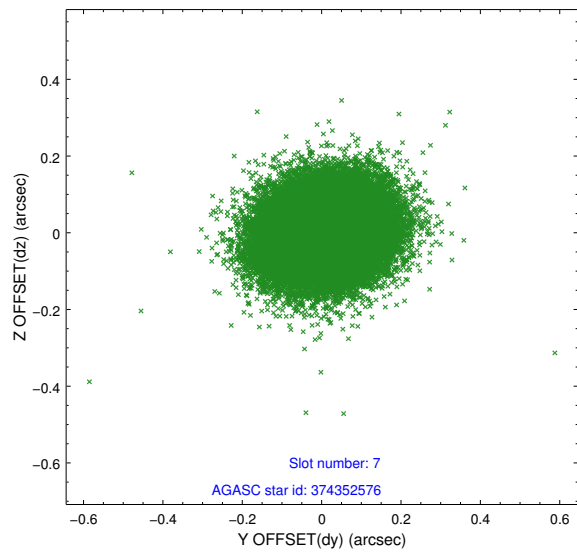
2.4.3 Slot 5



2.4.4 Slot 6

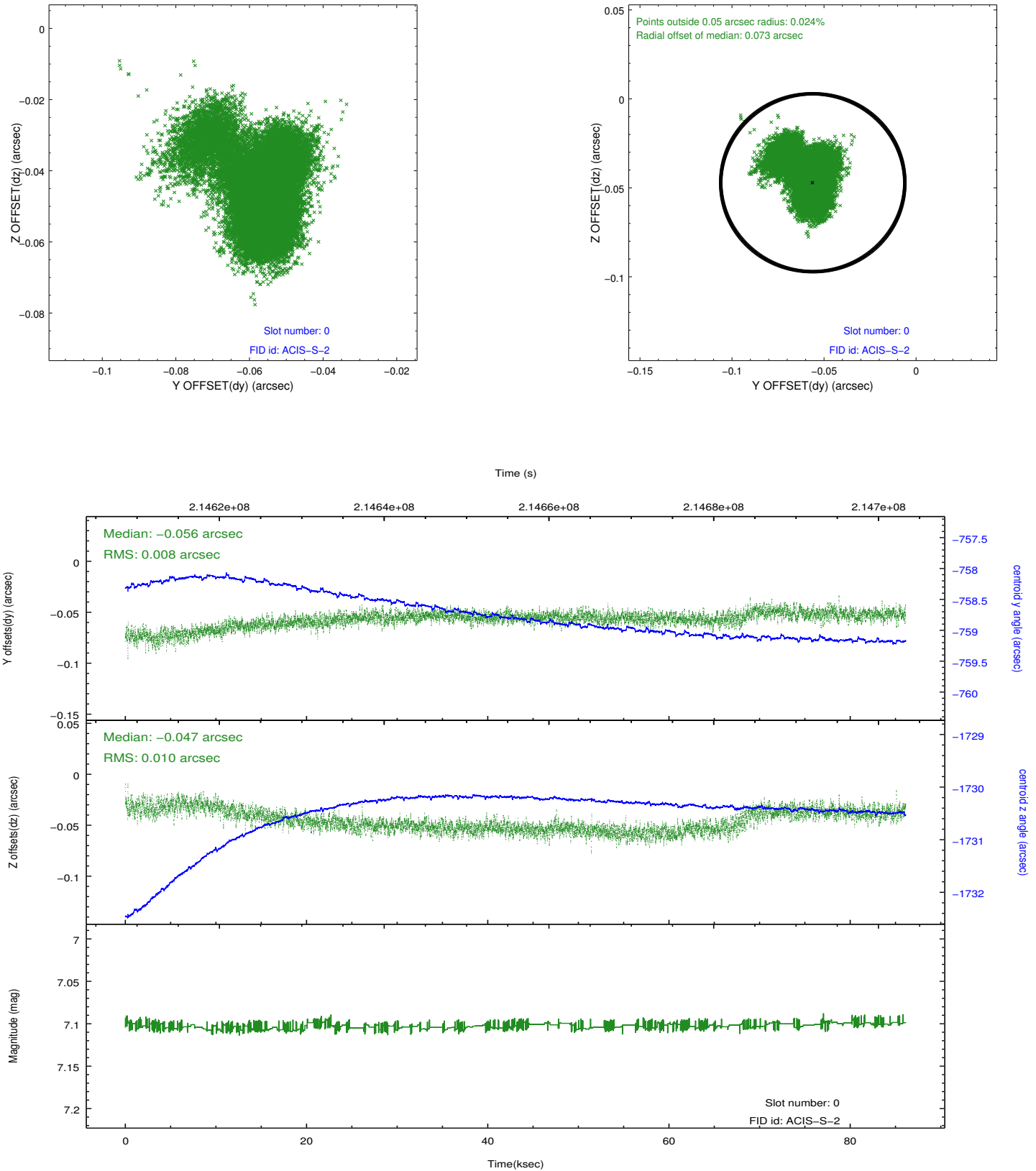


2.4.5 Slot 7

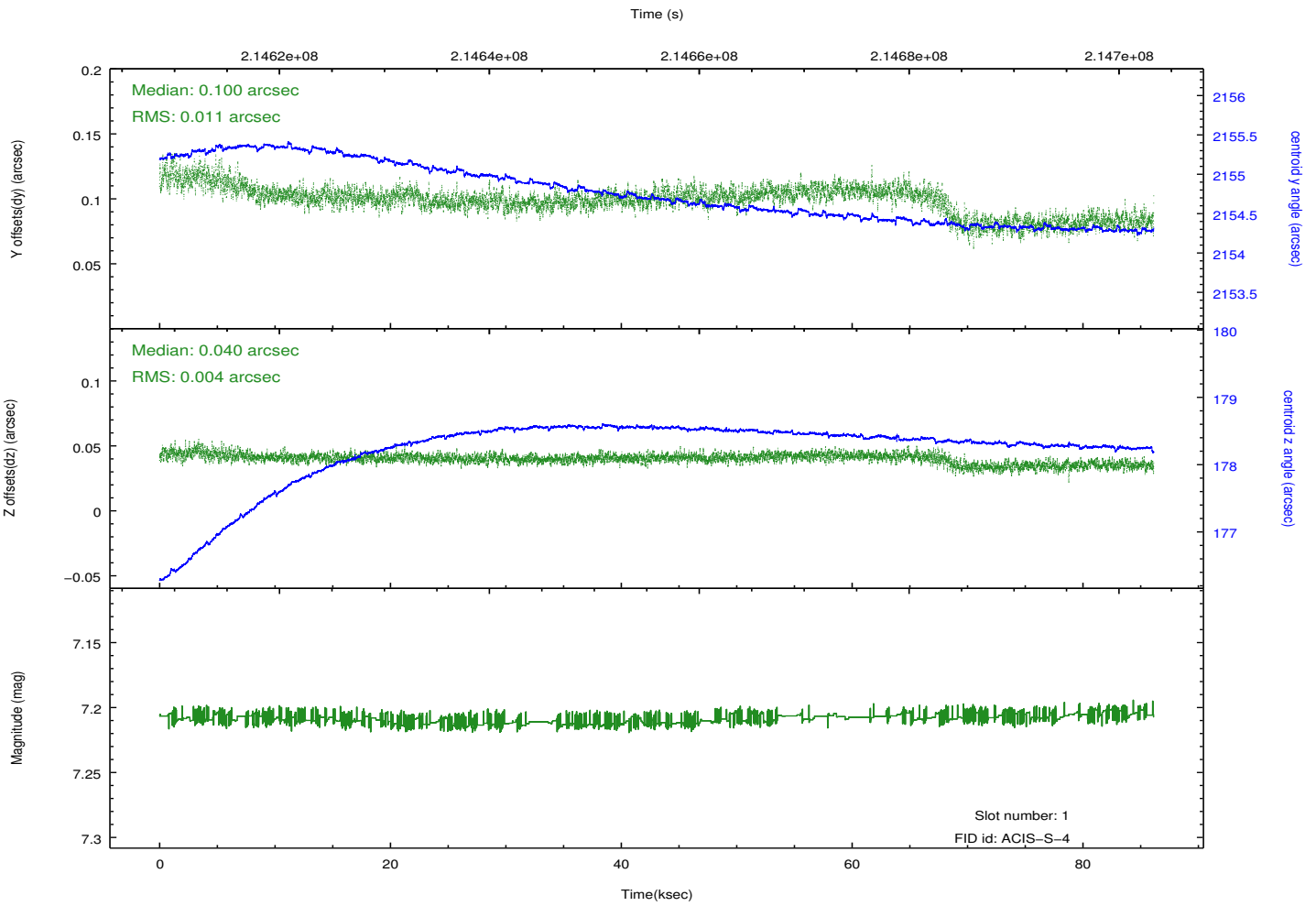
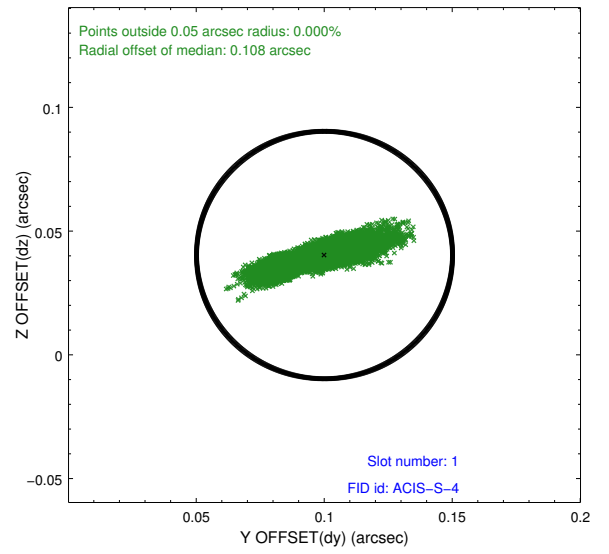
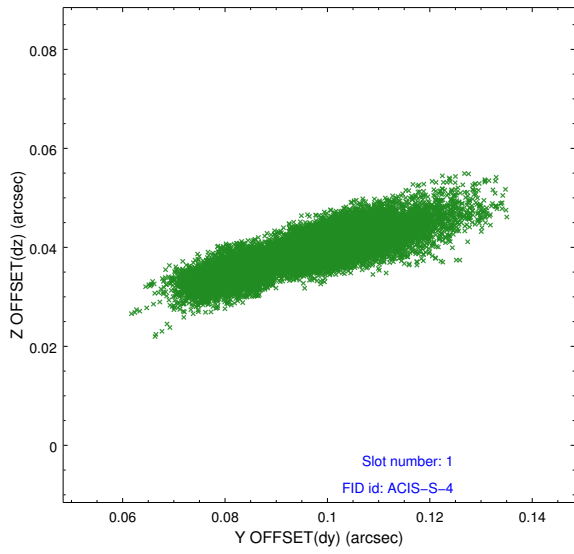


2.5 FID Slots

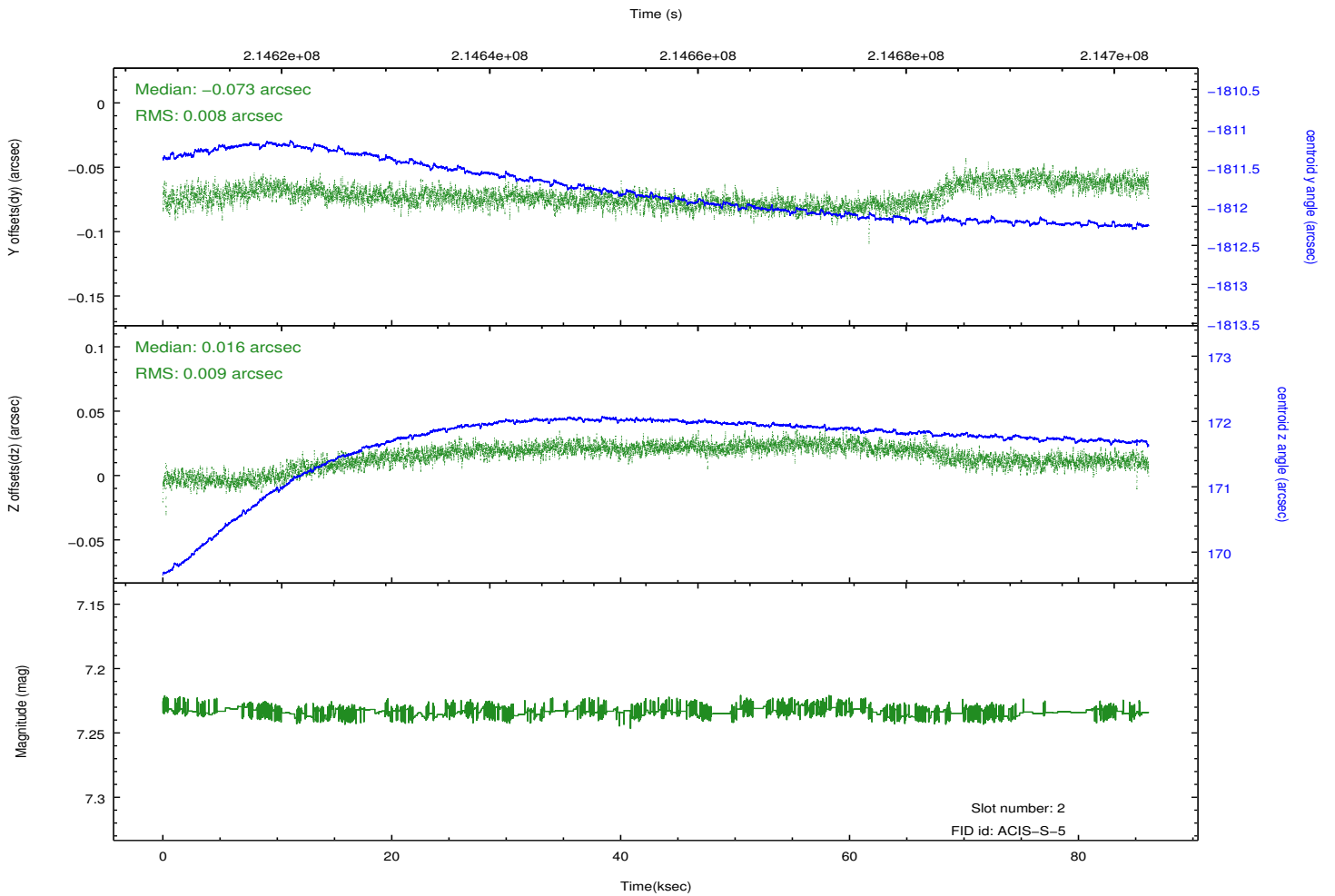
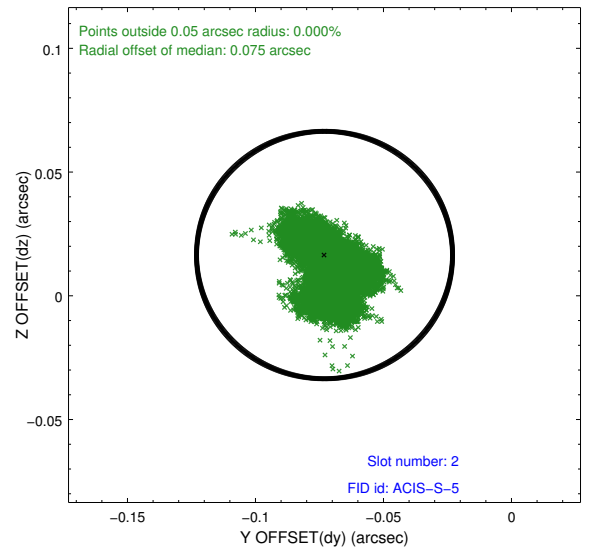
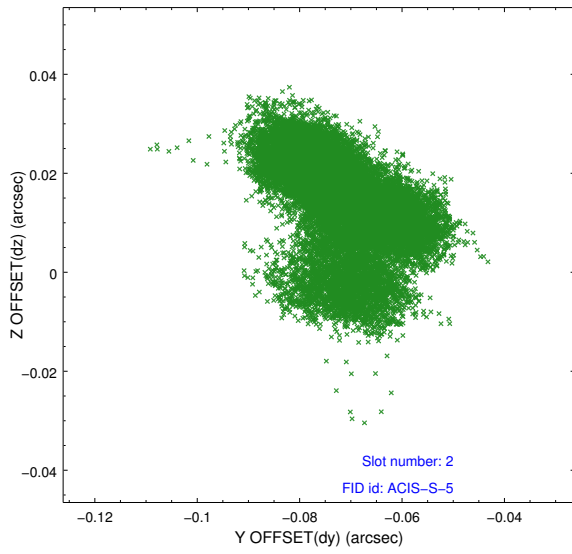
2.5.1 Slot 0



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)	2013.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	86.127

A.2 Comments