

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 17241 - L2 Version 1
Chandra X-Ray Center

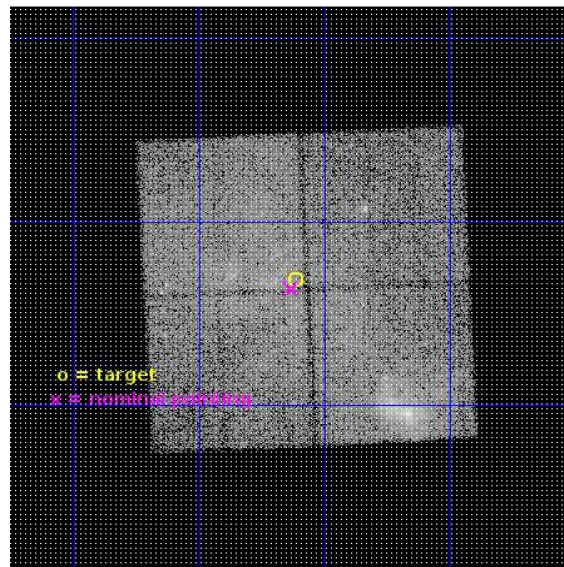
L2 Processing Date : Oct 3 2017

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1 Front

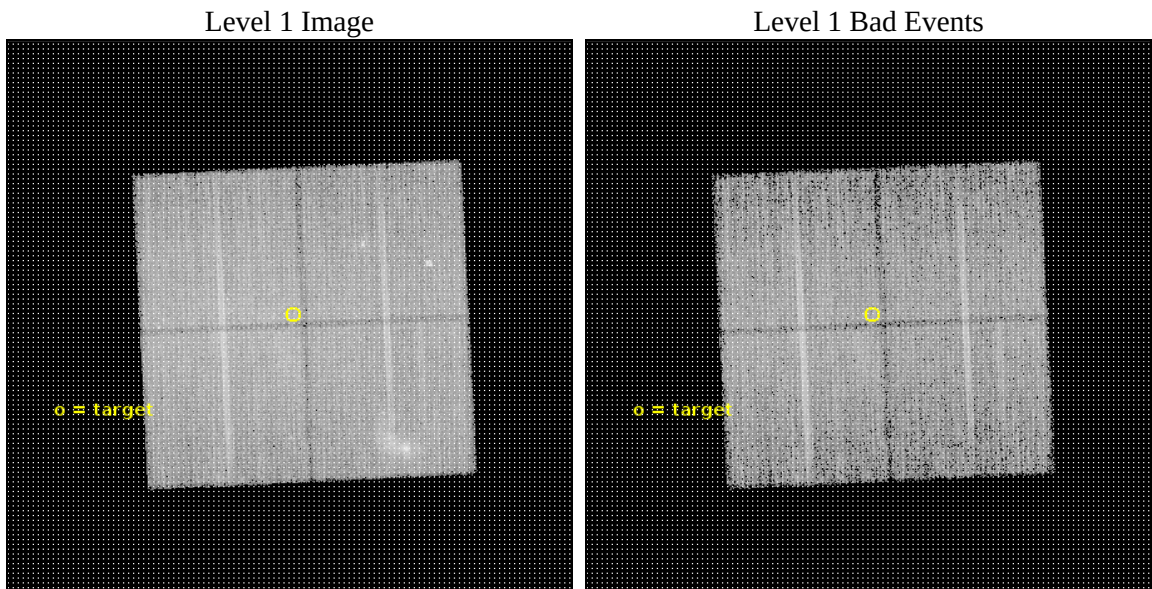
seq_num	901137	Sequence number
obs_id	17241	Observation id
title	Characterizing past outbursts from Sagittarius A*	Proposal title
observer	Ms Maica Clavel	Principal investigator
object	Sgr A complex 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.529167	Observer's specified target RA [deg]
dec_targ	-28.885972	Observer's specified target Dec [deg]
ra_nom	266.5330824363	Nominal RA [deg]
dec_nom	-28.89434661578	Nominal Dec [deg]
roll_nom	267.21057484808	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25083.9737674	Sum of GTIs [s]
livetime	24756.233183576	Livetime [s]
ontime0	25083.850647449	Sum of GTIs [s]
ontime1	25083.891687393	Sum of GTIs [s]
ontime2	25080.791737199	Sum of GTIs [s]
ontime3	25083.9737674	Sum of GTIs [s]
l2events	170119	Number of level 2 events



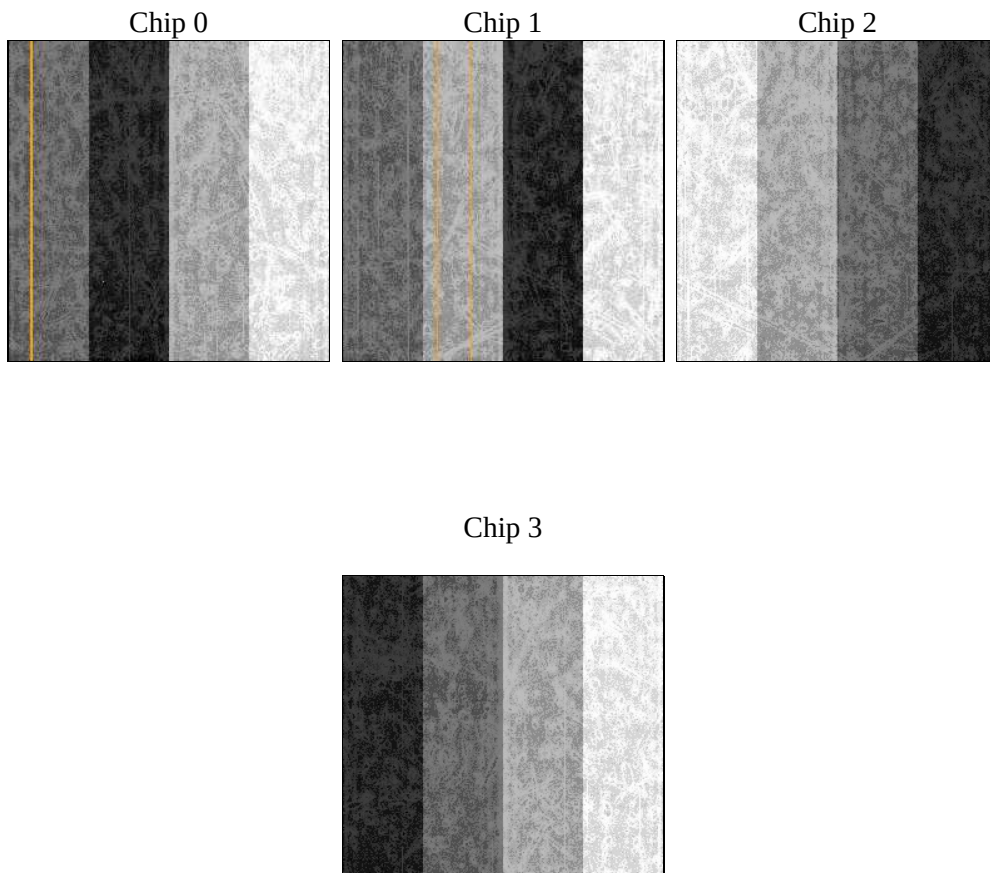
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	25083.9737674	Sum of GTIs [s]
caldsver	4.7.6	 	ontime0	25083.850647449	Sum of GTIs [s]
date	2017-10-03T13:03:03	Date and time of file creation	ontime1	25083.891687393	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25080.791737199	Sum of GTIs [s]
			ontime3	25083.9737674	Sum of GTIs [s]
			l1events	735038	Number of level 1 events

2.1.4 Events

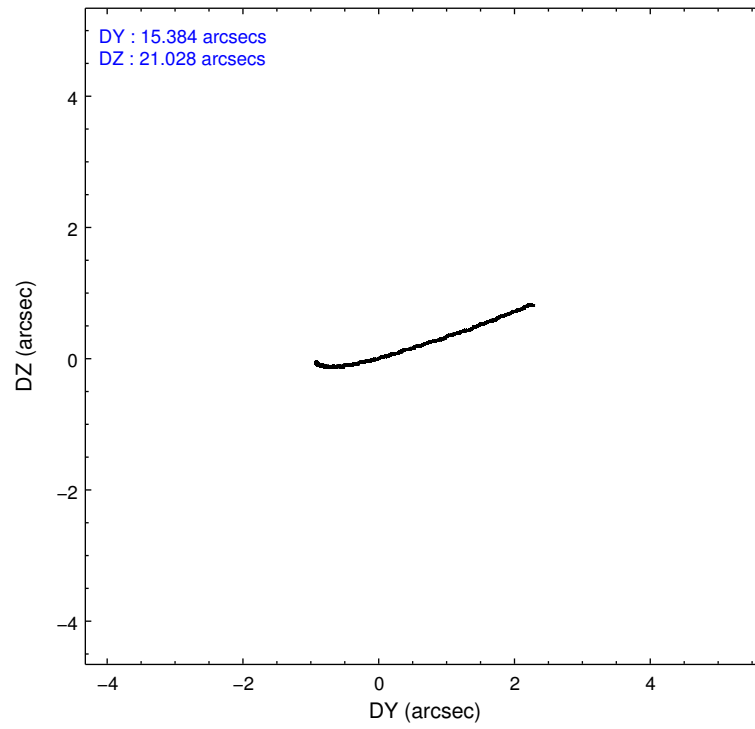
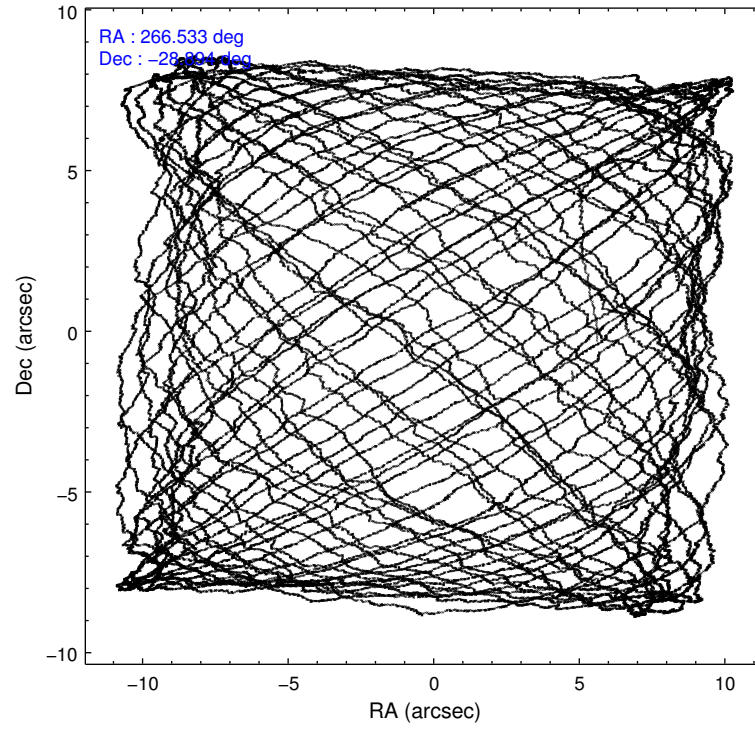
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	187356	169033	186815	191834
rejected events	126588	130863	145595	141415
rejected %	67%	77%	77%	73%

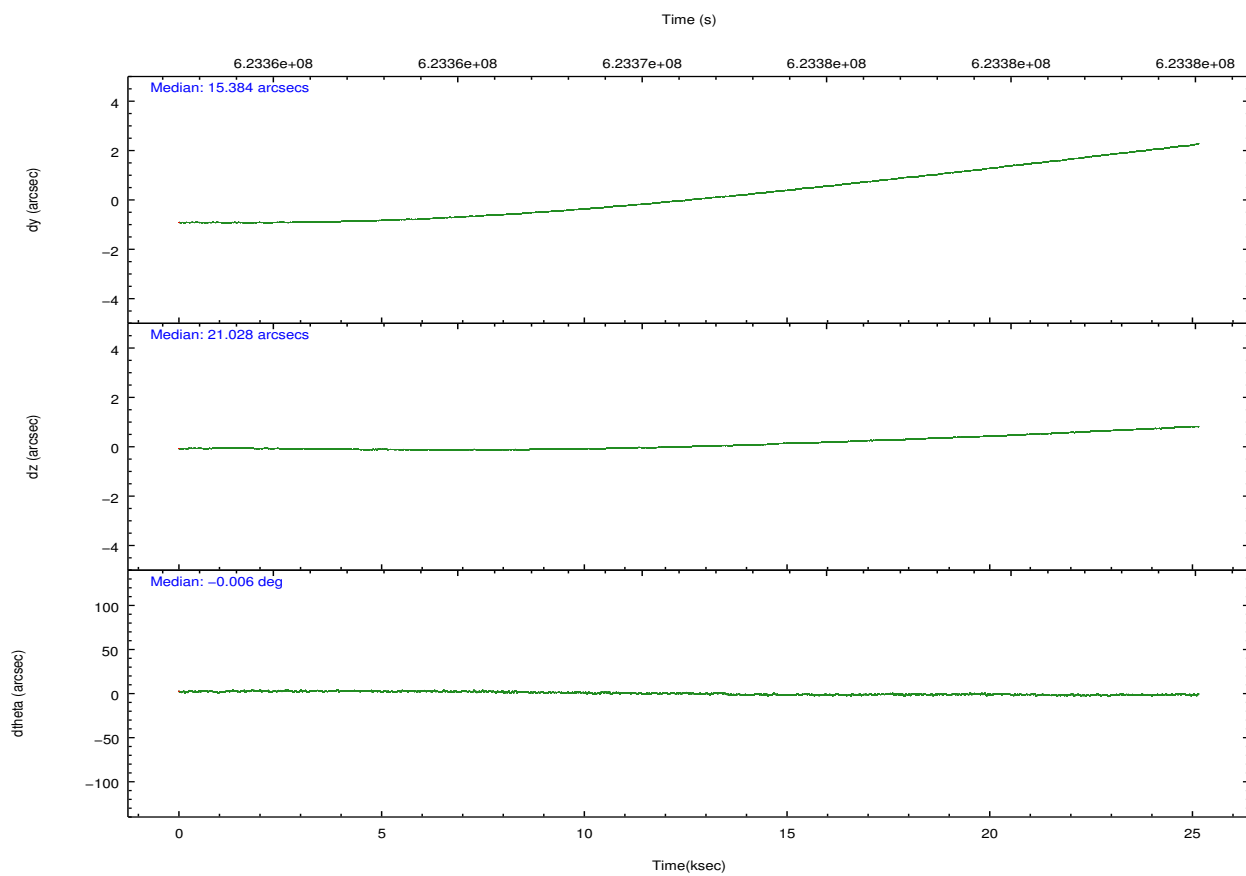
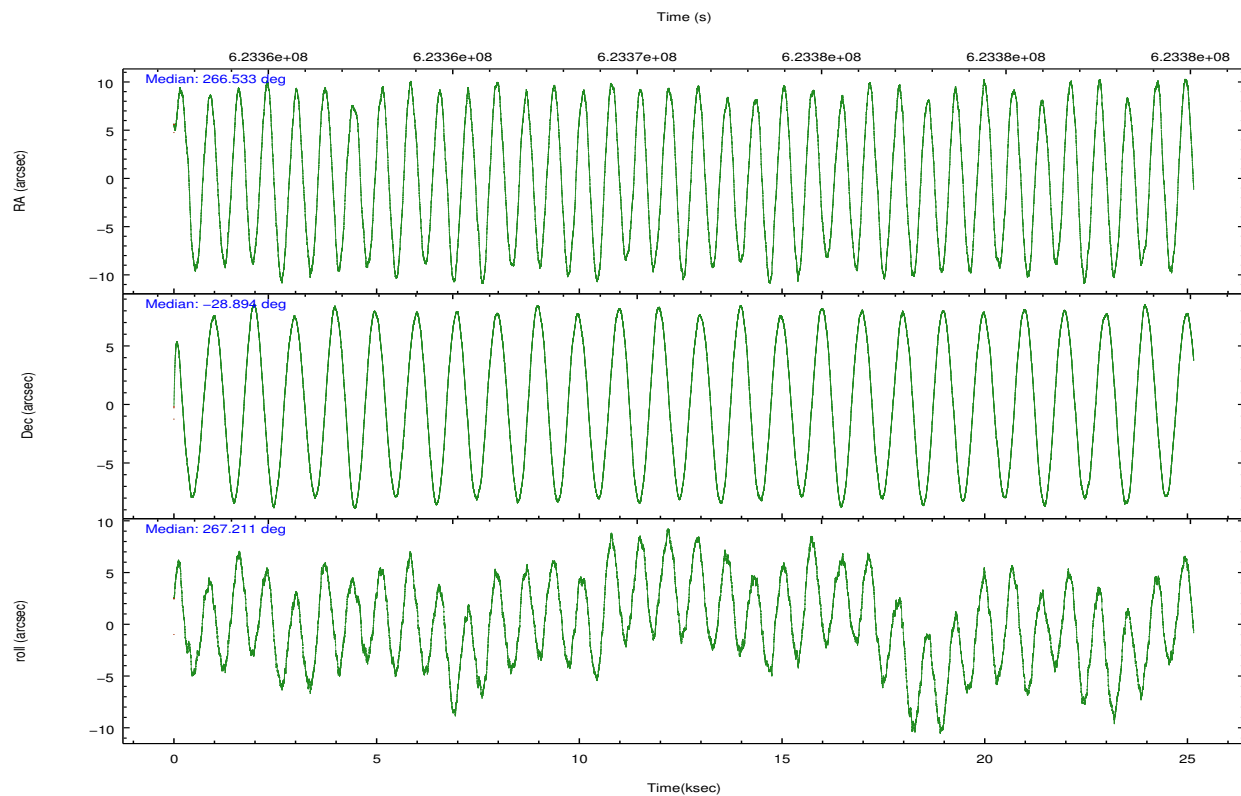
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	35229	19382	22654	29924
	18%	11%	12%	15%
grade 1 events	222	139	175	219
	0%	0%	0%	0%
grade 2 events	10831	7648	7648	8168
	5%	4%	4%	4%
grade 3 events	3937	2763	2811	3352
	2%	1%	1%	1%
grade 4 events	3795	2639	2948	3334
	2%	1%	1%	1%
grade 5 events	7366	7734	7023	8214
	3%	4%	3%	4%
grade 6 events	6990	5741	5162	5653
	3%	3%	2%	2%
grade 7 events	118986	122987	138394	132970
	63%	72%	74%	69%

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	266.518538	266.5330824363023	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.869847	-28.8943466157804	Alternating exposures requested	N	N
[deg] Pointing Roll	266.994866	267.2105748480772	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	531187267.184000	531187267.184000			
[s] Window stop time (MET)	562723208.184000	562723208.184000			
[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)	623358829.184000	623357702.56971			
Observation start date	2017-10-02T19:12:40	2017-10-02T18:55:02			
[s] Observation end time (MET)	623383829.184000	623384704.65879			
Observation end date	2017-10-03T02:09:20	2017-10-03T02:25:04			
Read mode	TIMED	TIMED			

2.3 Aspect



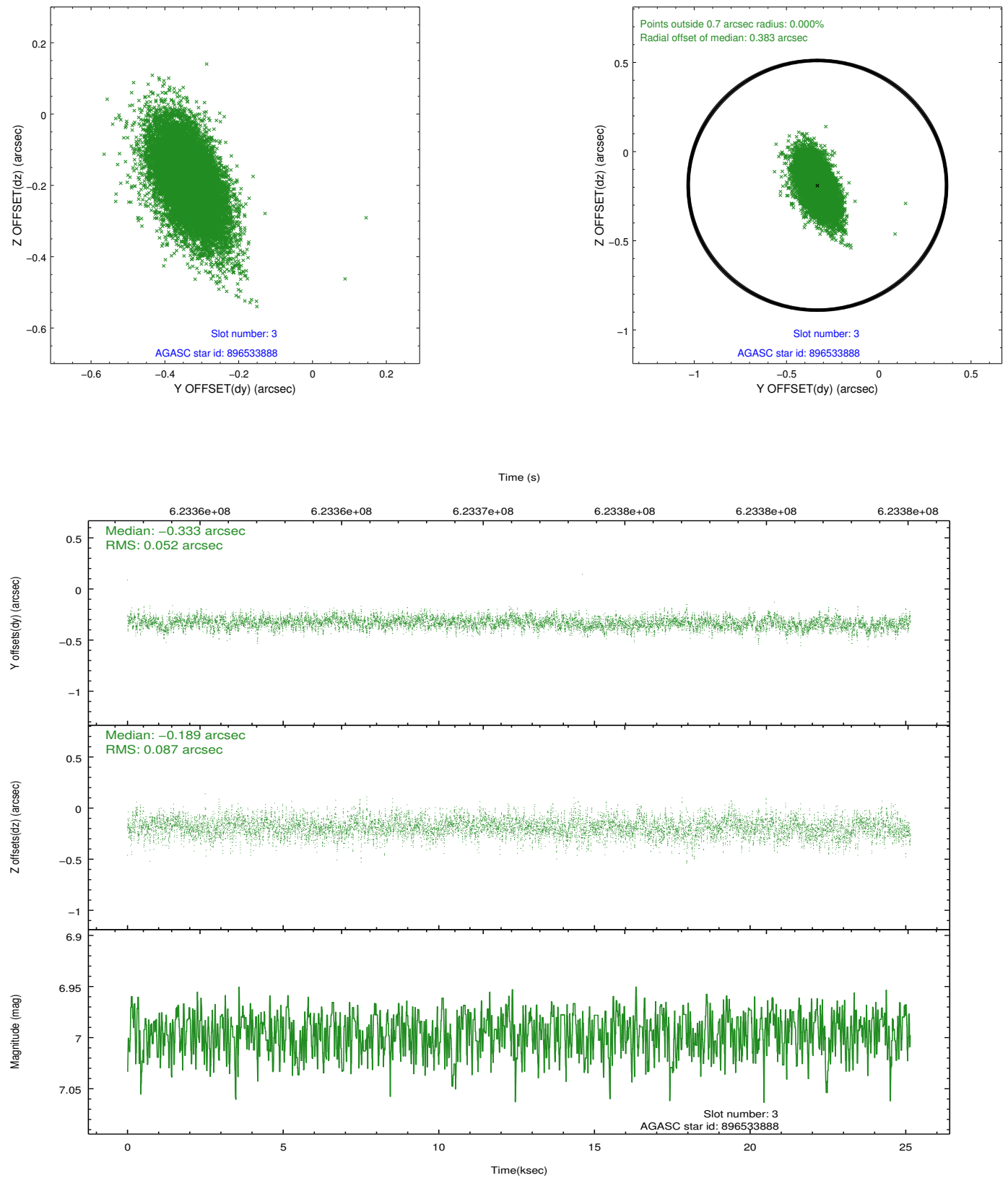


Slot Statistics

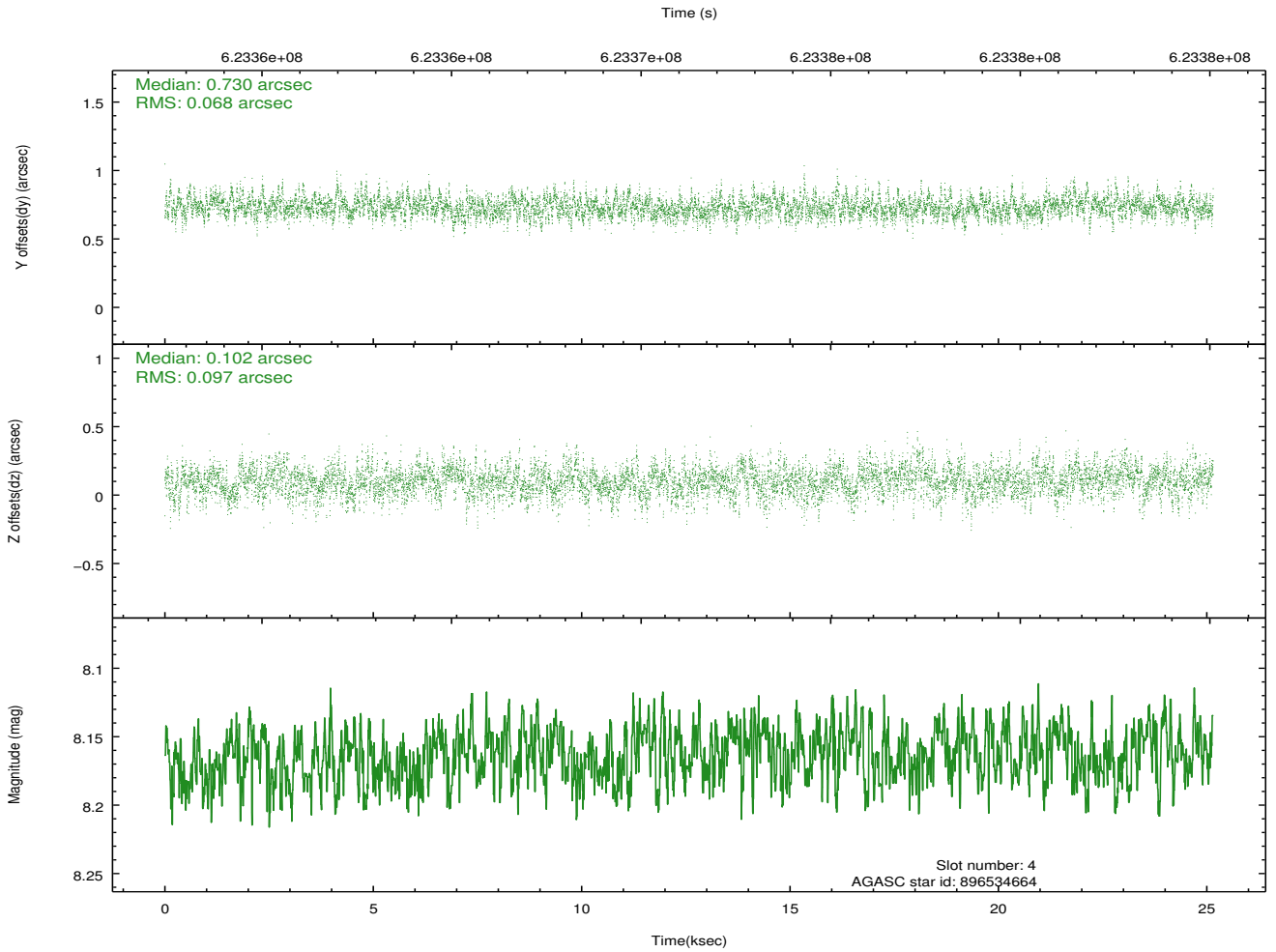
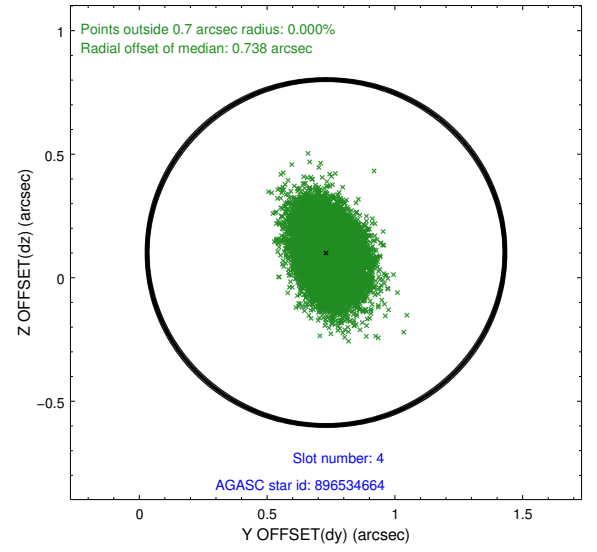
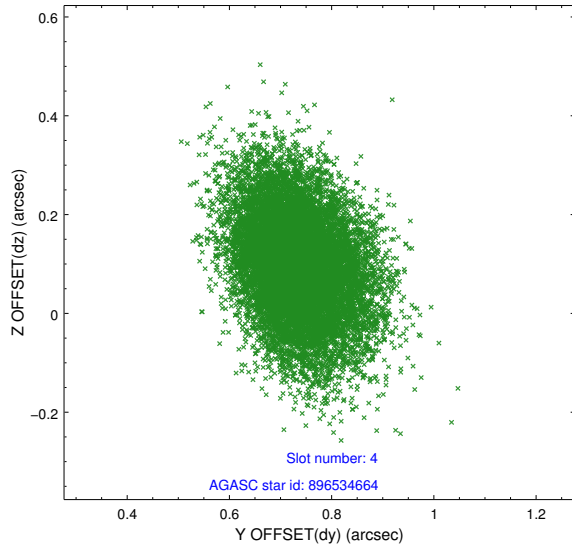
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.09	6134	-0.042	-0.119	0.036	0.047	0.000000	0.000000	923.84	-844.99
1	FID		ACIS-I-4	7.03	6136	0.371	0.124	0.032	0.089	0.000000	0.000000	2144.27	1055.06
2	FID		ACIS-I-5	7.07	6136	-0.431	0.058	0.016	0.044	0.000000	0.000000	-1824.51	1052.74
3	GUIDE	used	896533888	6.99	12270	-0.333	-0.189	0.102	0.187	266.666434	-29.392757	1856.15	561.77
4	GUIDE	used	896534664	8.16	12267	0.730	0.102	0.123	0.212	266.405570	-28.407461	-1641.89	-444.31
5	GUIDE	used	896538696	6.83	12271	-0.162	0.089	0.111	0.196	266.298470	-28.325572	-1919.20	-799.05
6	GUIDE	used	896540808	7.46	12269	0.096	0.178	0.110	0.197	265.985401	-29.308604	1669.43	-1588.25
7	GUIDE	used	896541360	7.70	12268	-0.339	-0.175	0.111	0.201	266.684478	-29.453744	2072.65	629.39

2.4 Star Slots

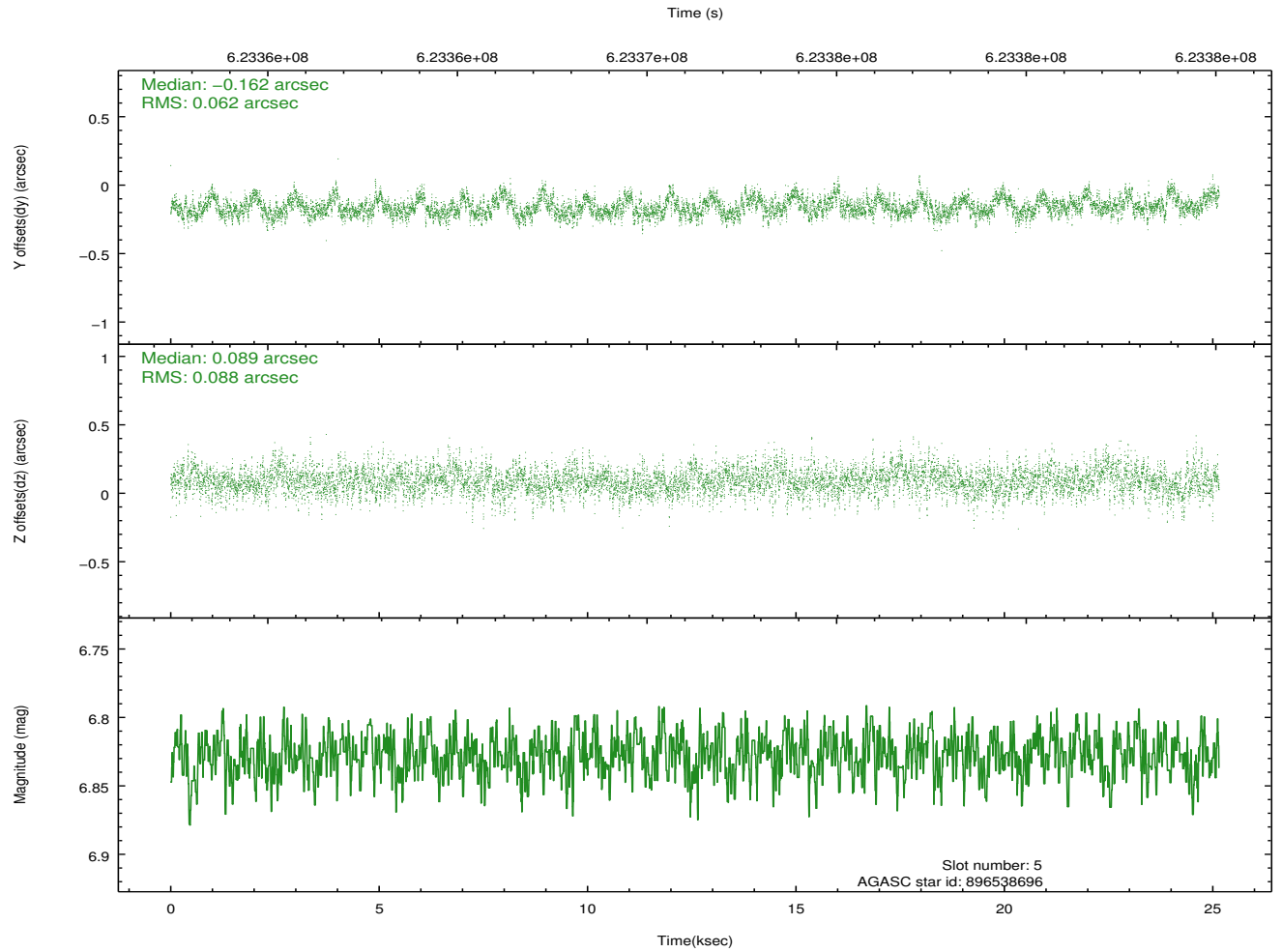
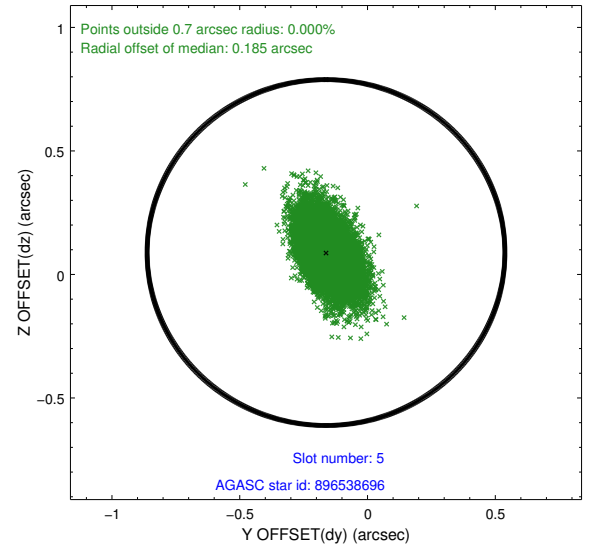
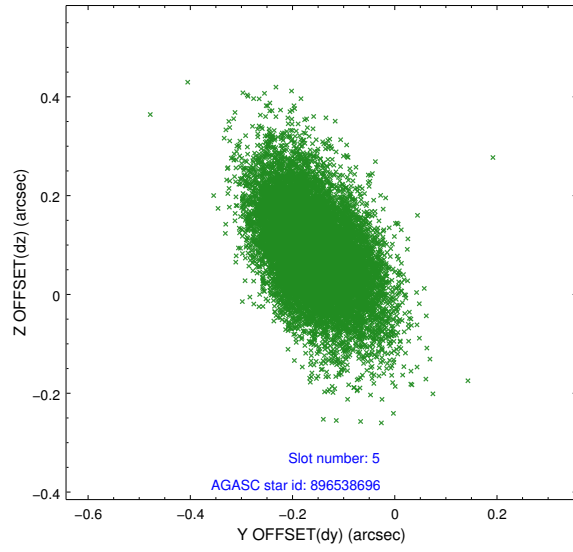
2.4.1 Slot 3



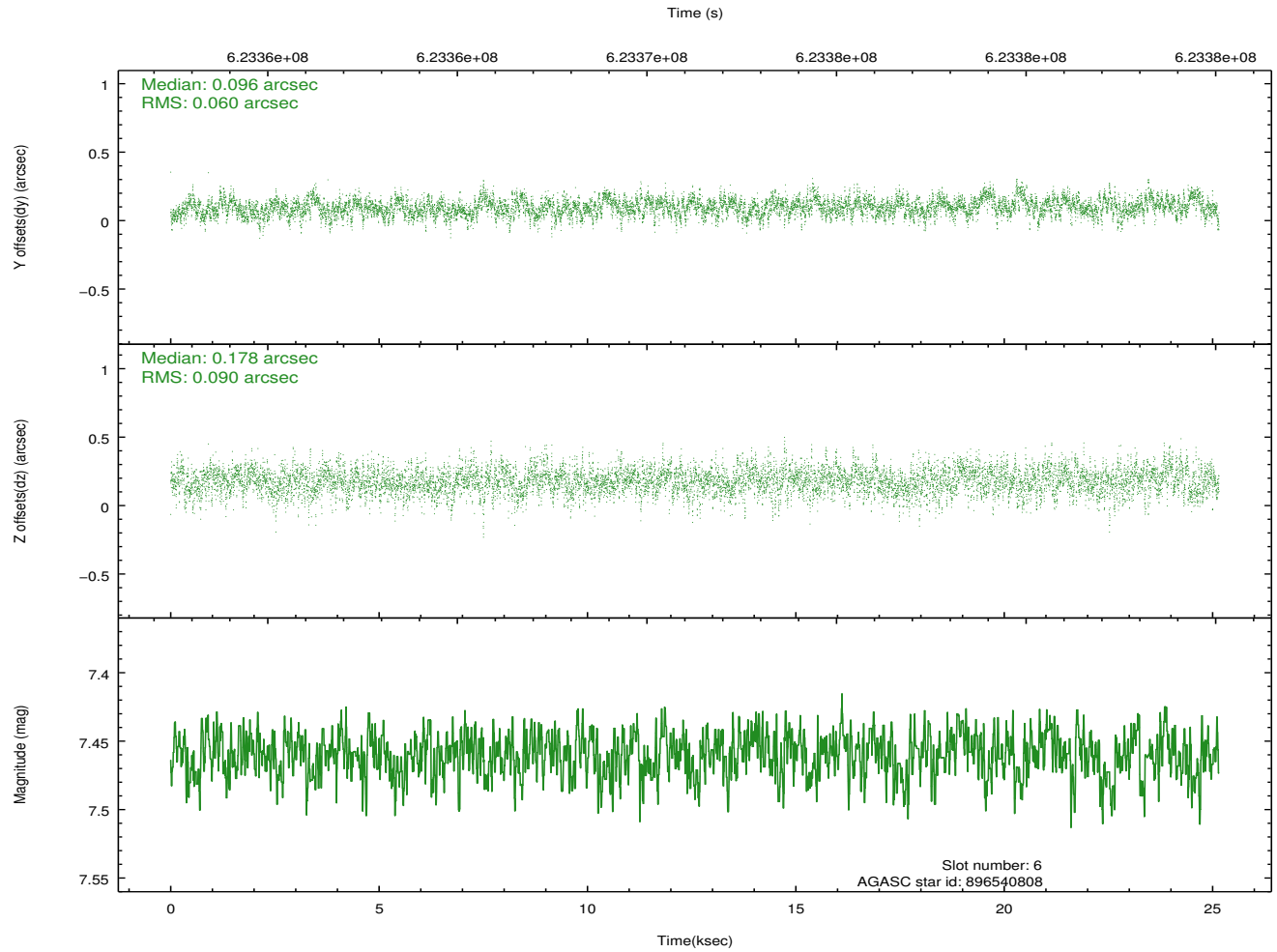
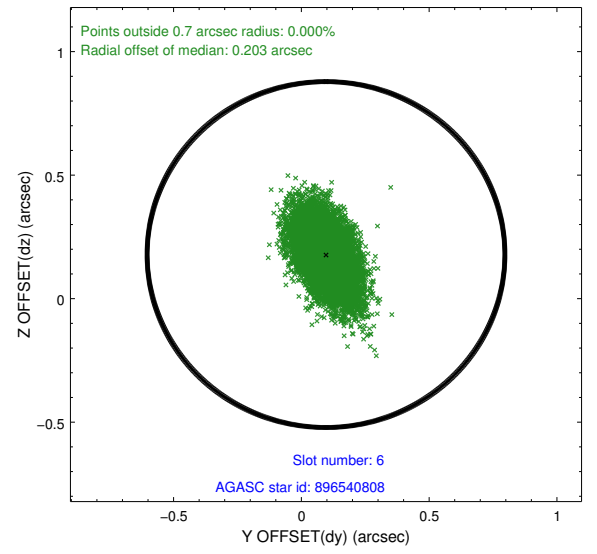
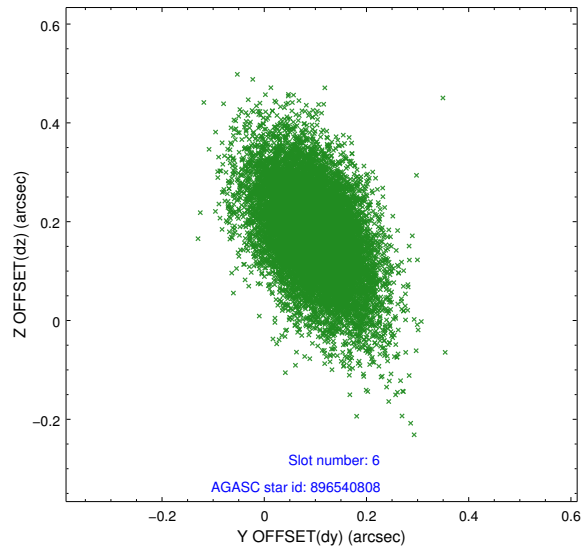
2.4.2 Slot 4



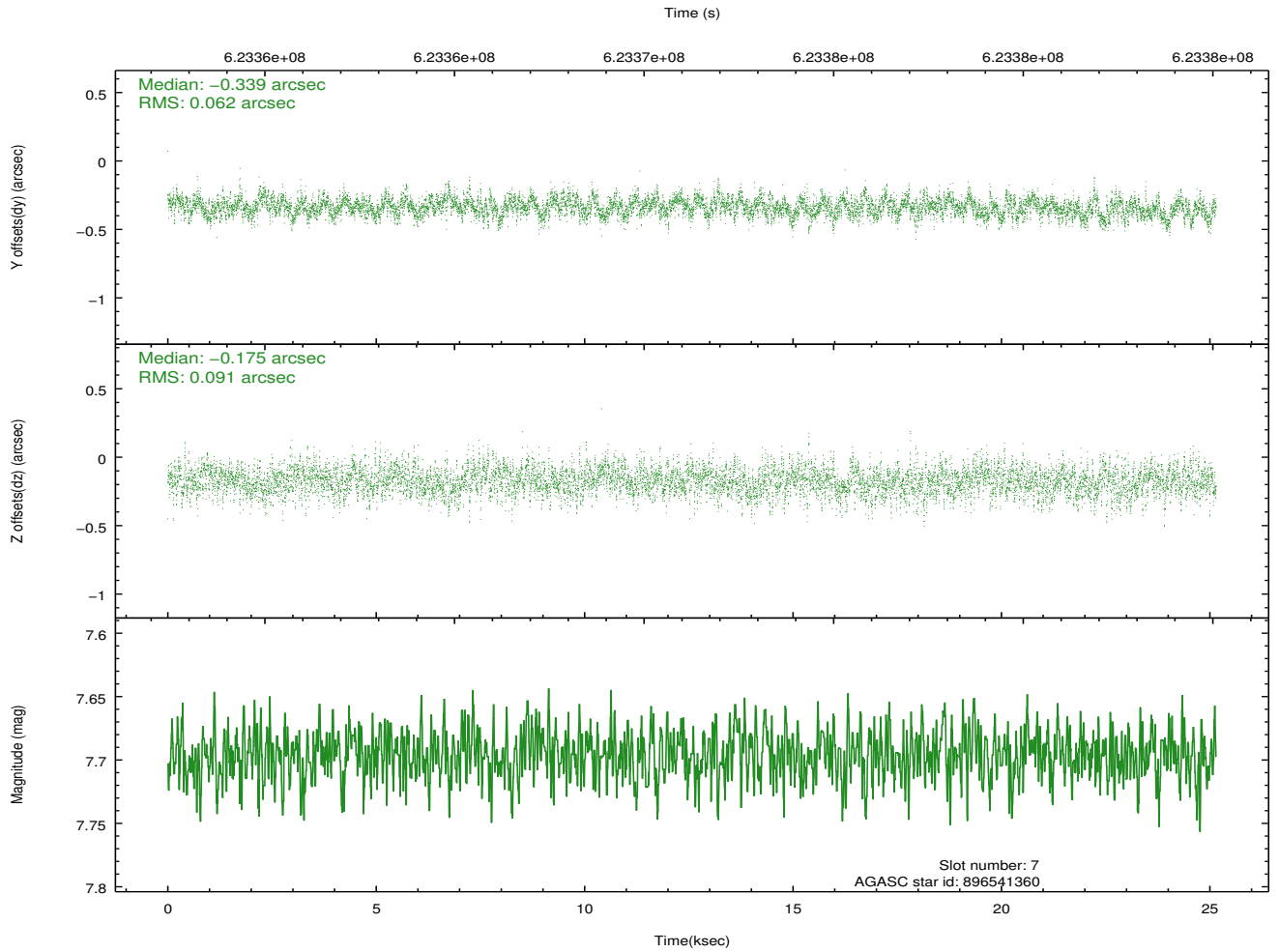
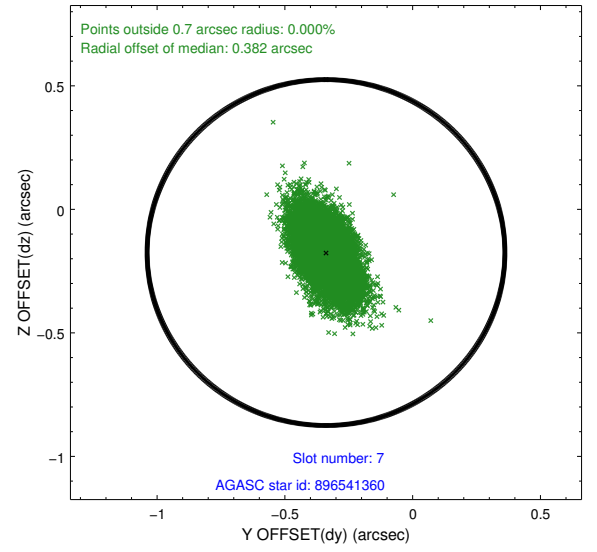
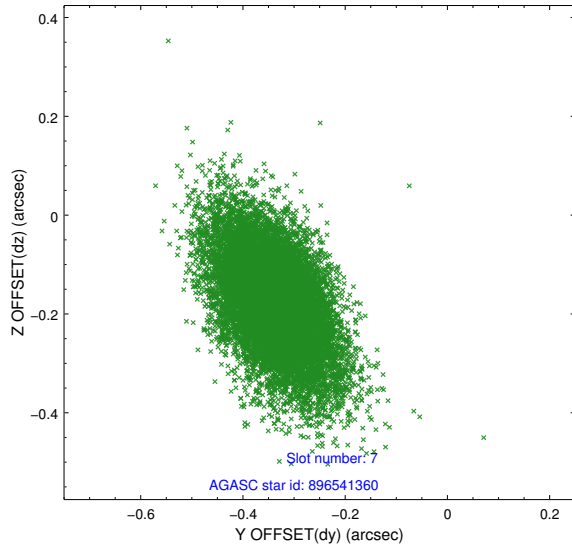
2.4.3 Slot 5



2.4.4 Slot 6

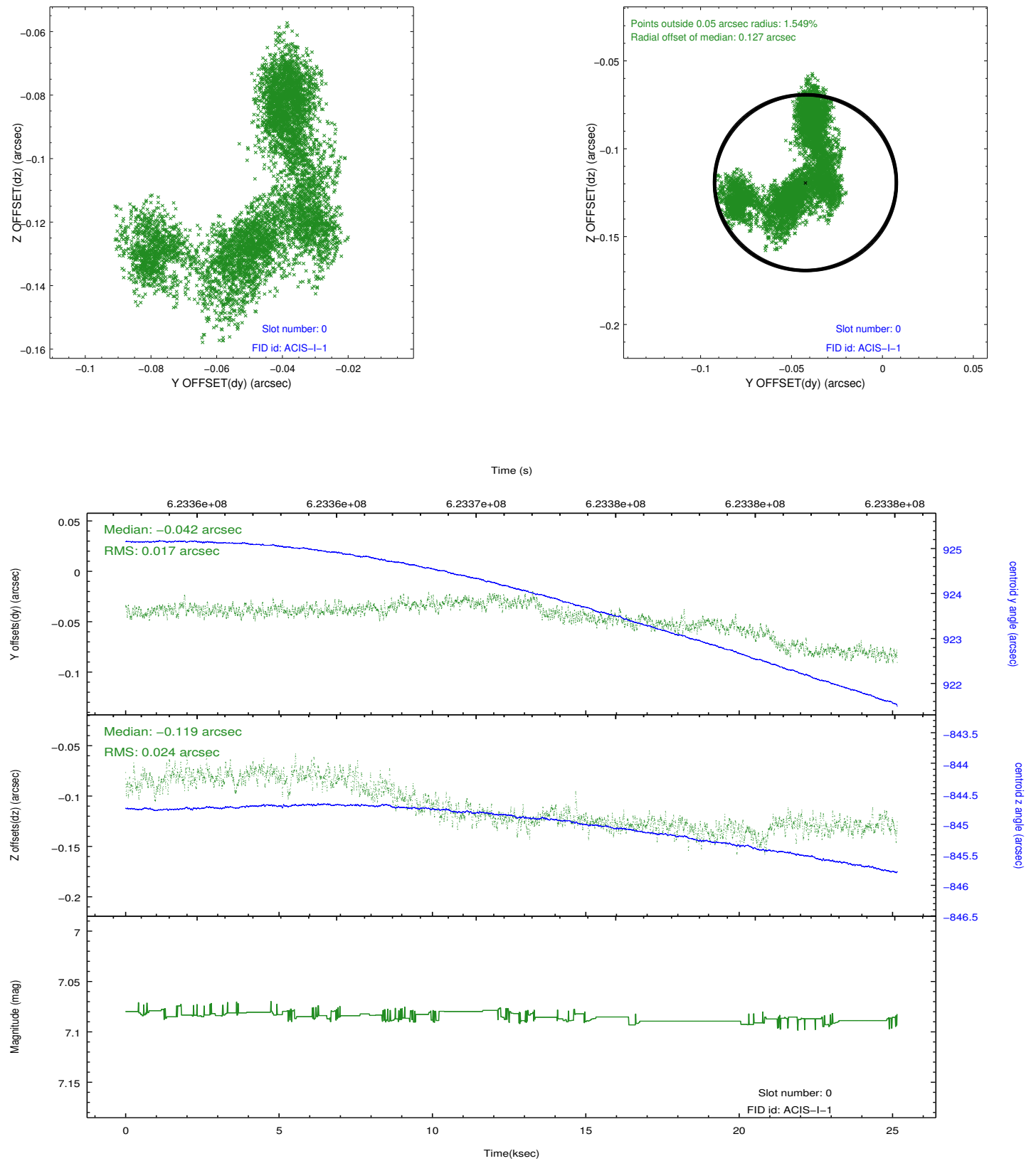


2.4.5 Slot 7

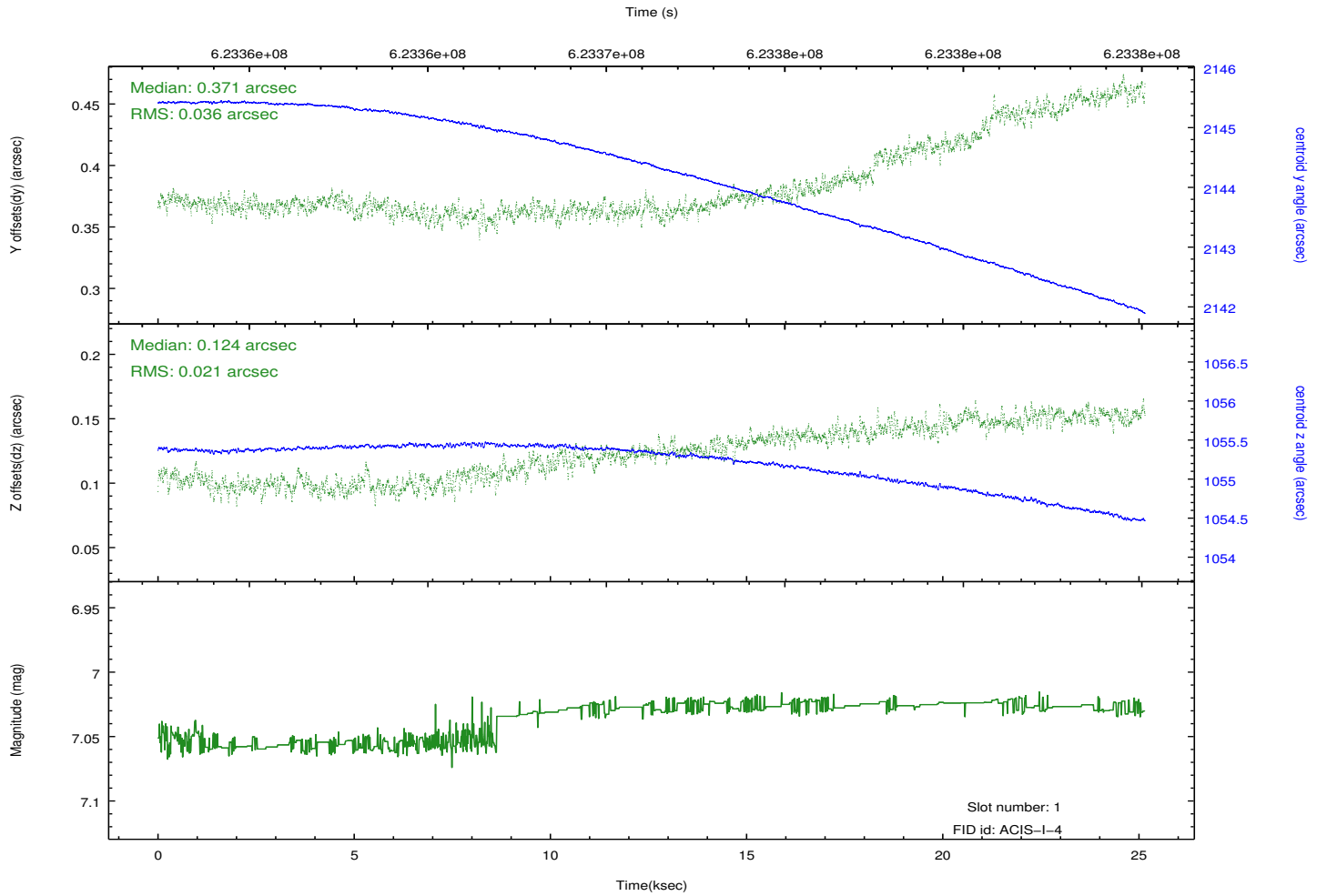
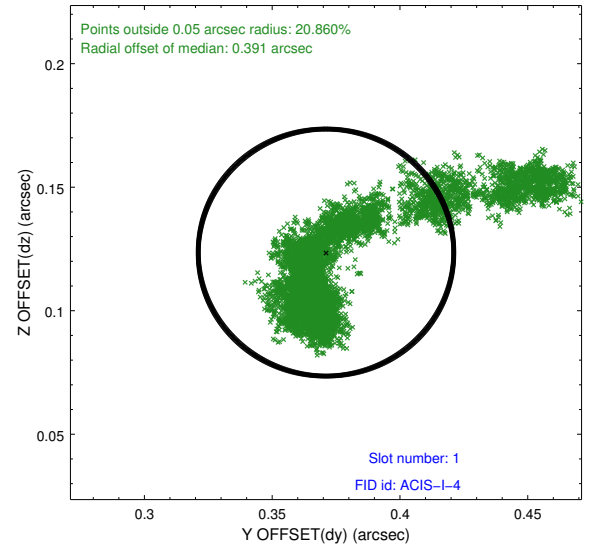
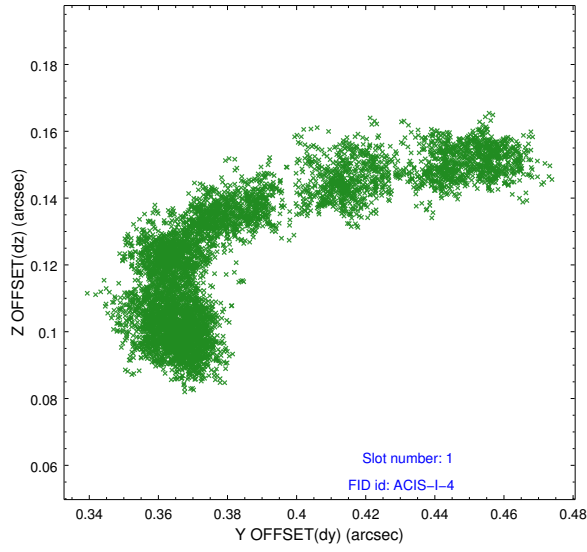


2.5 FID Slots

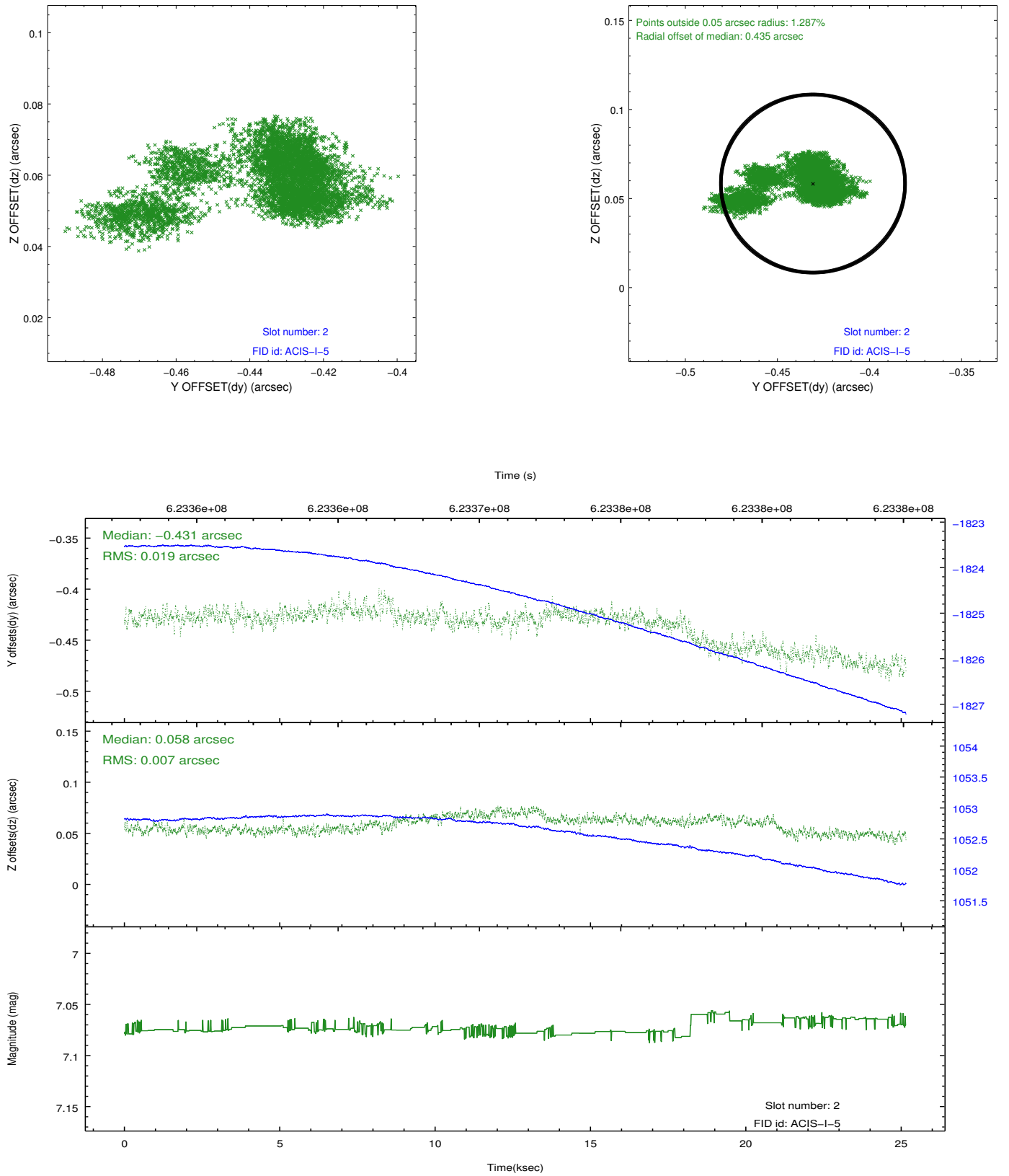
2.5.1 Slot 0



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)	2017.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.0839737674

A.2 Comments

Window constraint met. Roll preference met.