

V&V Reference Report

L2 ASCDS Version : 10.8.3

Observation 23223 - L2 Version 1
Chandra X-Ray Center

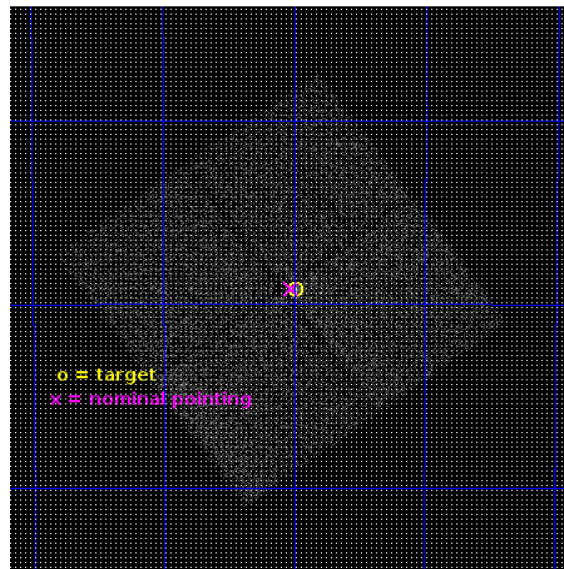
L2 Processing Date : Apr 27 2020

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1 Front

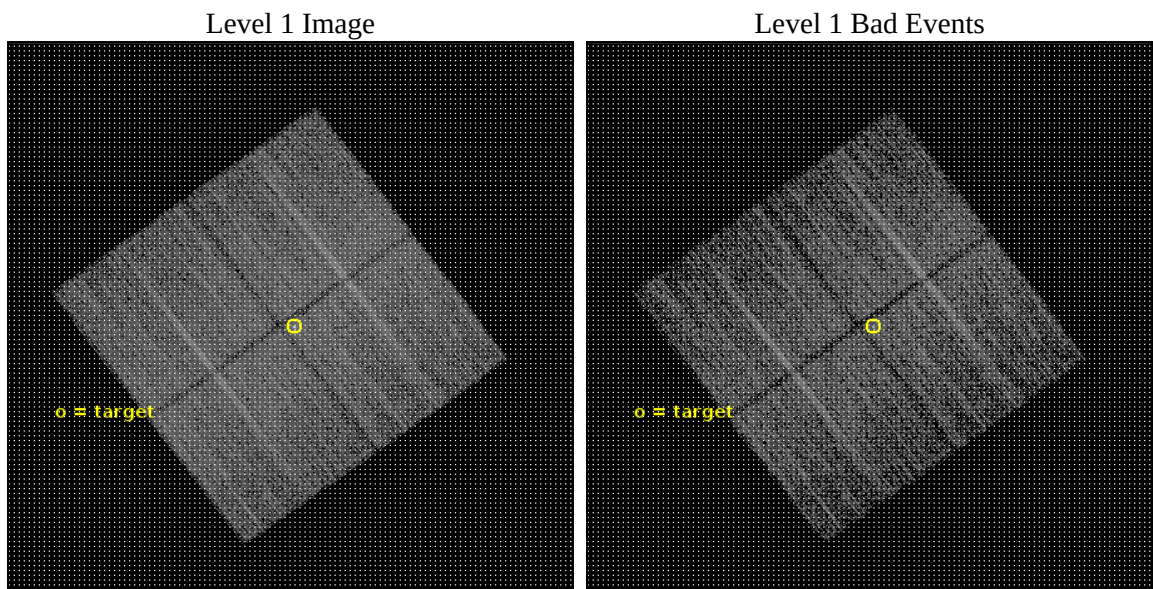
seq_num	601497	Sequence number
obs_id	23223	Observation id
title	ULX Science with Nearby Galaxies	Proposal title
observer	Dominic Walton	Principal investigator
object	NGC 6300	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	259.247803	Observer's specified target RA [deg]
dec_targ	-62.82056	Observer's specified target Dec [deg]
ra_nom	259.255497475	Nominal RA [deg]
dec_nom	-62.8195604727	Nominal Dec [deg]
roll_nom	53.8020218873	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10071.859067559	Sum of GTIs [s]
livetime	9940.2628140468	Livetime [s]
ontime0	10068.718057275	Sum of GTIs [s]
ontime1	10075.000077605	Sum of GTIs [s]
ontime2	10068.718146563	Sum of GTIs [s]
ontime3	10071.859067559	Sum of GTIs [s]
l2events	32985	Number of level 2 events



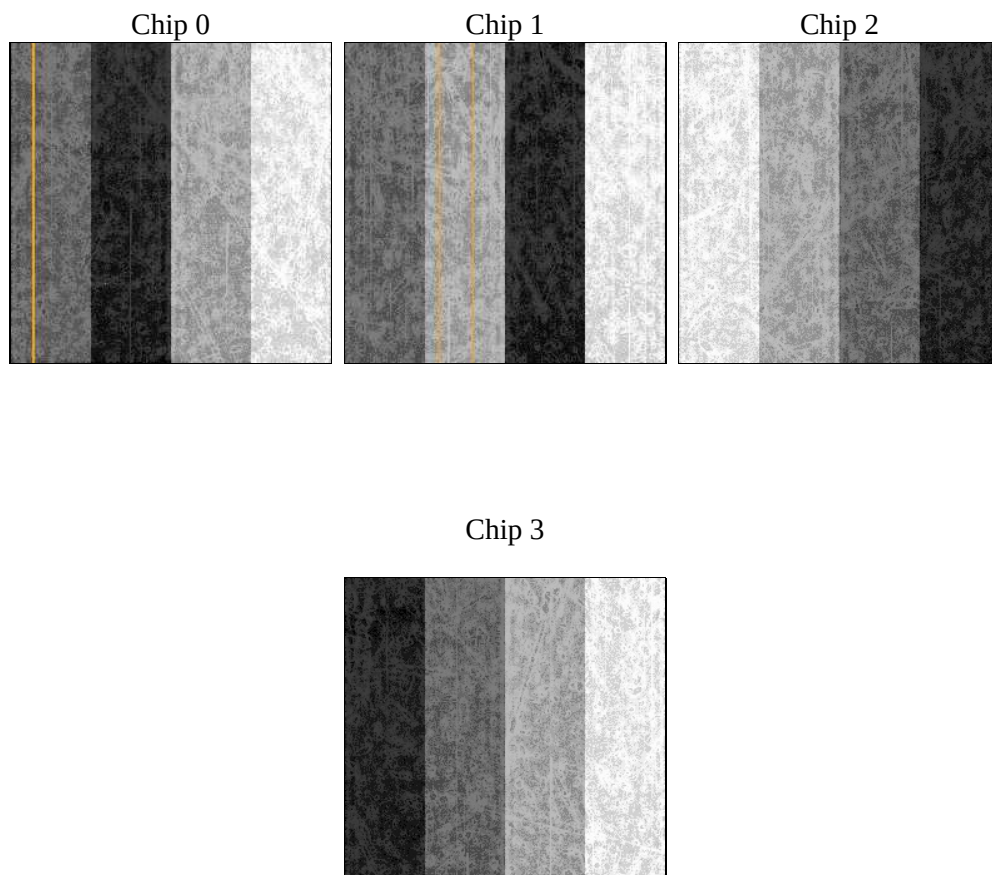
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.3	Processing system revision	ontime	10071.859067559	Sum of GTIs [s]
caldsver	4.9.1	 	ontime0	10068.718057275	Sum of GTIs [s]
date	2020-04-27T05:16:31	Date and time of file creation	ontime1	10075.000077605	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	10068.718146563	Sum of GTIs [s]
			ontime3	10071.859067559	Sum of GTIs [s]
			l1events	304187	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	73324	73837	77803	79223
rejected events	64137	63717	68981	68059
rejected %	87%	86%	88%	85%

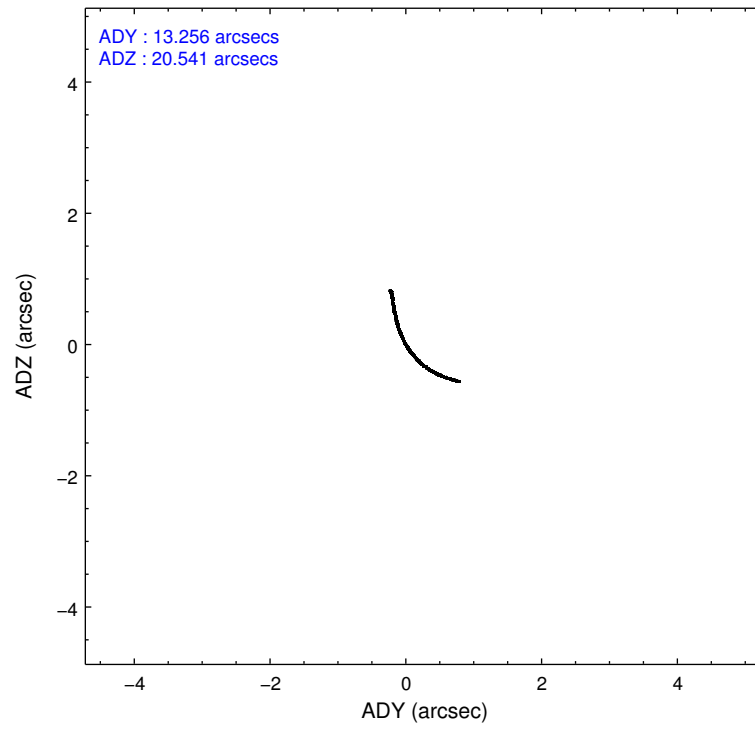
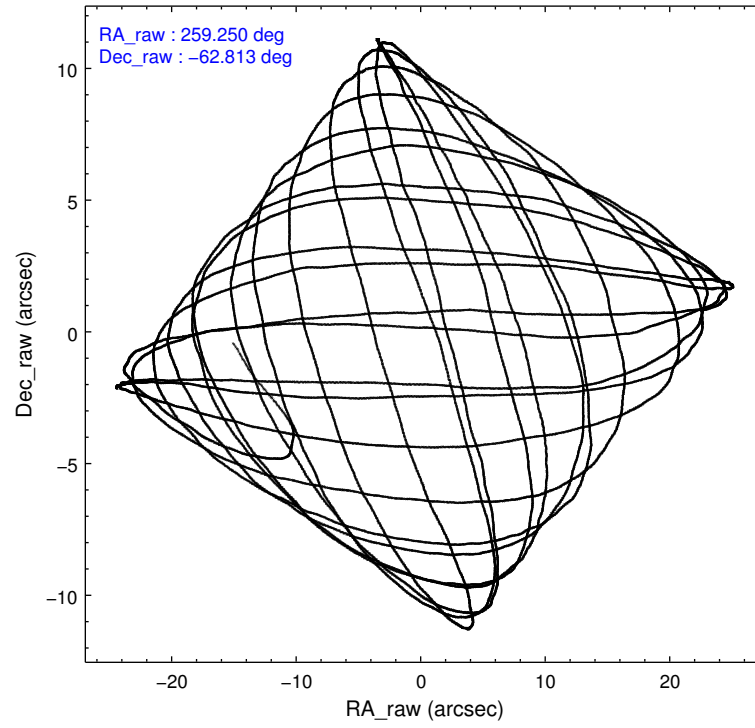
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	3133	3350	3143	4604
	4%	4%	4%	5%
grade 1 events	50	34	31	161
	0%	0%	0%	0%
grade 2 events	2454	2720	2252	2282
	3%	3%	2%	2%
grade 3 events	911	947	864	1036
	1%	1%	1%	1%
grade 4 events	830	915	865	989
	1%	1%	1%	1%
grade 5 events	3374	3563	3169	3993
	4%	4%	4%	5%
grade 6 events	1861	2193	1703	2263
	2%	2%	2%	2%
grade 7 events	60711	60115	65776	63895
	82%	81%	84%	80%

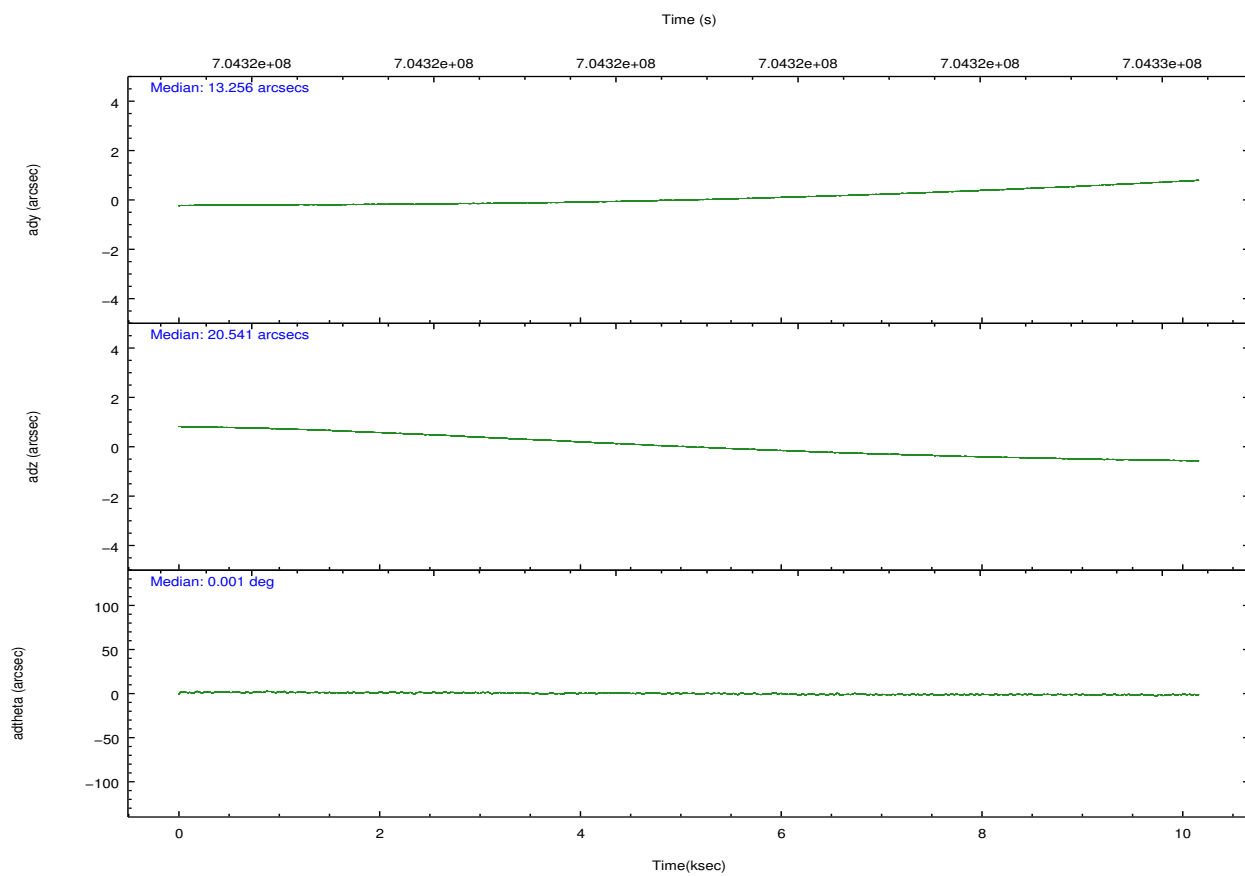
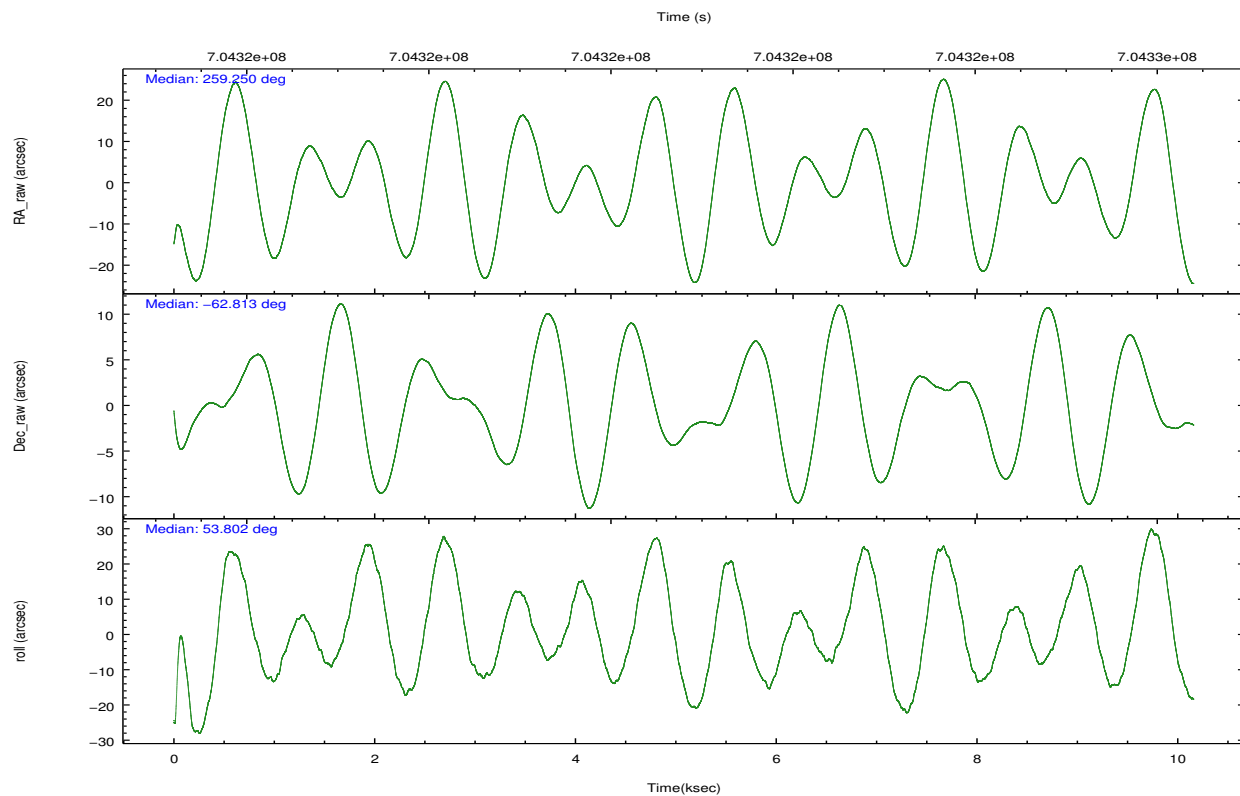
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	259.243685	259.255497475
[deg] Pointing Dec	-62.840368	-62.8195604727
[deg] Pointing Roll	53.590369	53.8020218873
[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)	704315864.184000	704314833.01686
Observation start date	2020-04-26T19:16:35	2020-04-26T19:00:33
[s] Observation end time (MET)	704325864.184000	704326581.0550801
Observation end date	2020-04-26T22:03:15	2020-04-26T22:16:21
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



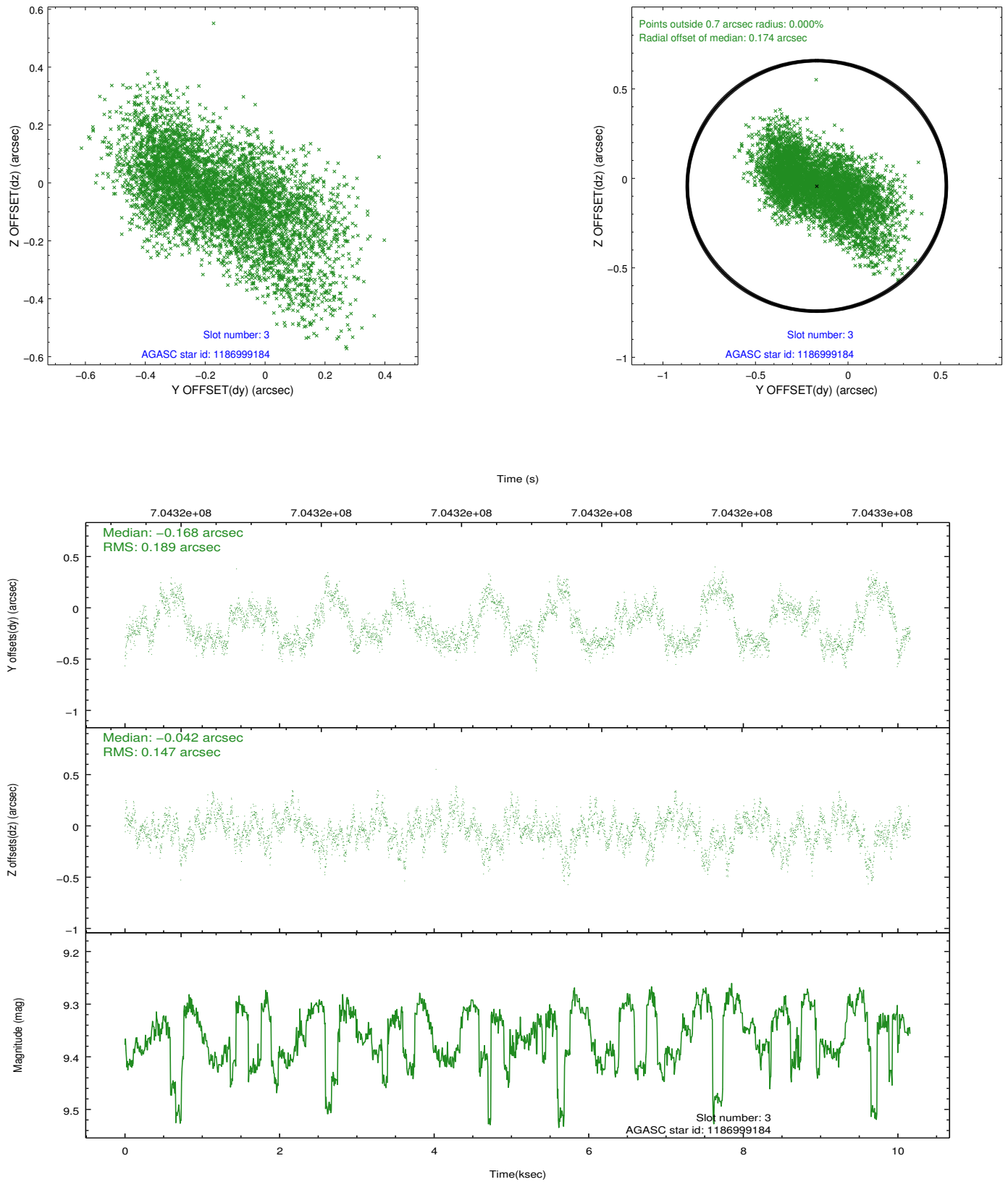


Slot Statistics

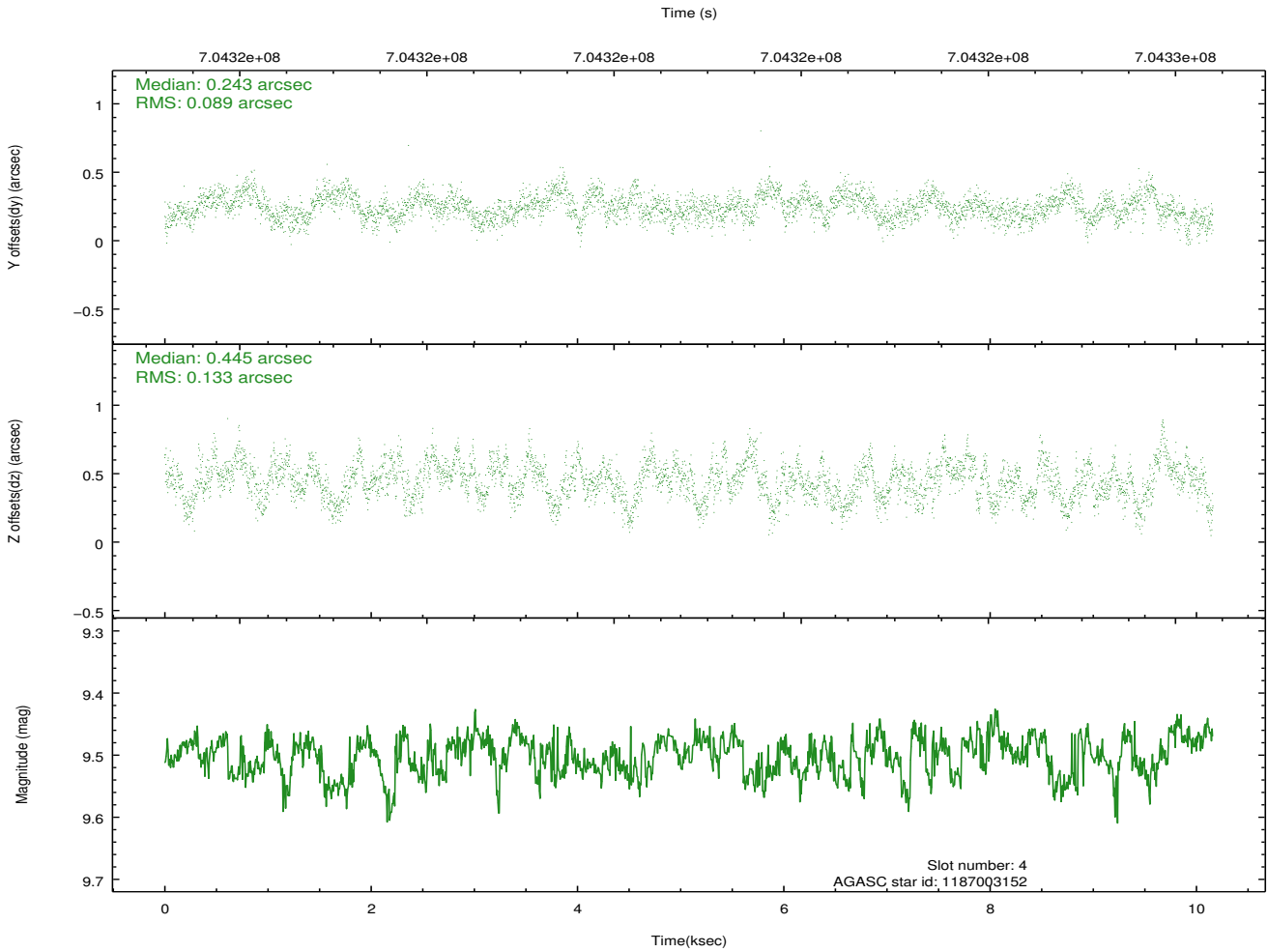
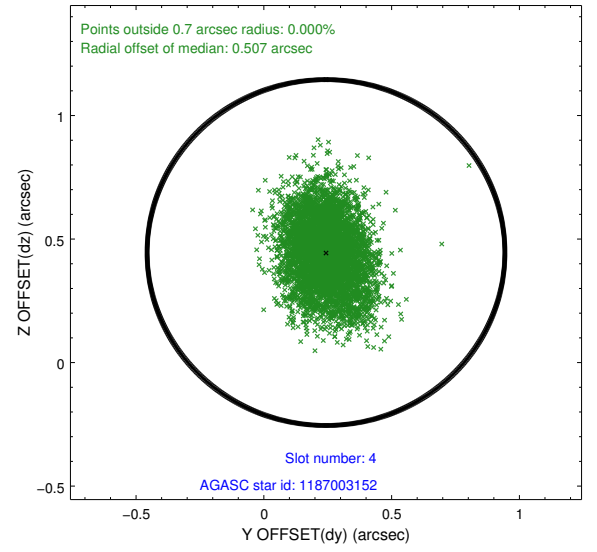
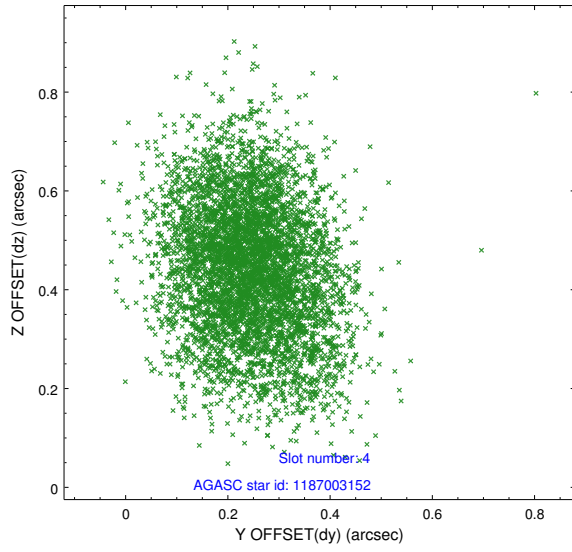
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-3	7.37	2478	1.000	0.136	0.130	0.016	0.026	0.000000	0.000000	43.64	-977
1	FID		ACIS-I-5	7.14	2478	1.000	-0.250	0.146	0.014	0.022	0.000000	0.000000	-1822.23	1053
2	FID		ACIS-I-6	7.15	2477	1.000	0.021	-0.208	0.011	0.017	0.000000	0.000000	391.22	1697
3	GUIDE	used	1186999184	9.36	4952	1.000	-0.168	-0.042	0.247	0.426	260.481291	-62.791729	1334.51	-1546
4	GUIDE	used	1187003152	9.50	4946	1.000	0.243	0.445	0.169	0.276	259.688405	-63.307332	-927.46	-1577
5	GUIDE	used	1187018600	9.34	4951	1.000	0.093	-0.245	0.162	0.258	259.263459	-62.063541	2270.91	1632
6	GUIDE	used	1187022640	6.27	4957	1.000	0.107	0.017	0.151	0.270	261.004481	-62.864154	1615.95	-2400
7	GUIDE	used	1187015888	9.99	4877	1.000	-0.316	-0.152	0.319	0.553	257.825503	-62.822896	-1353.81	1898

2.4 Star Slots

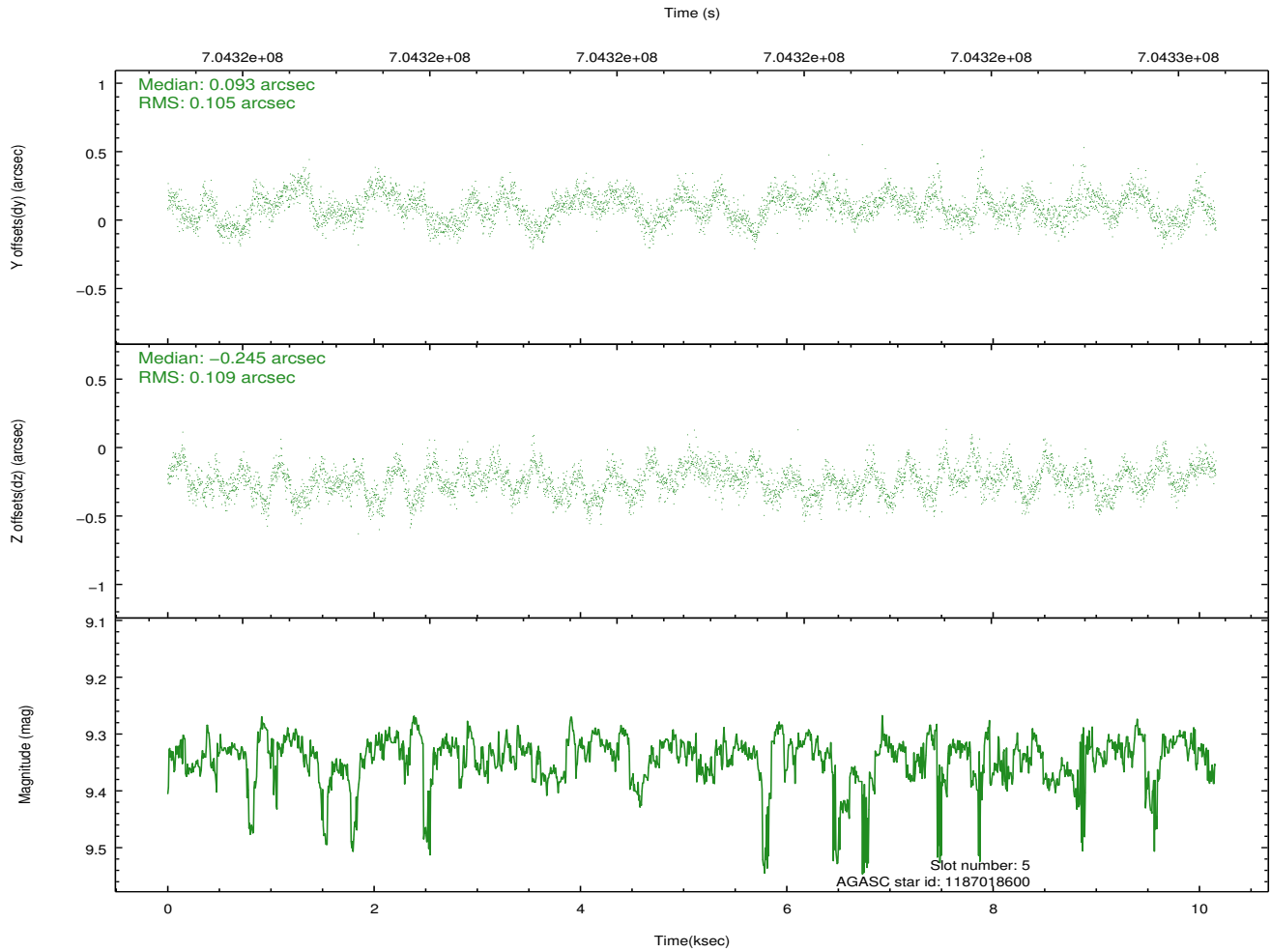
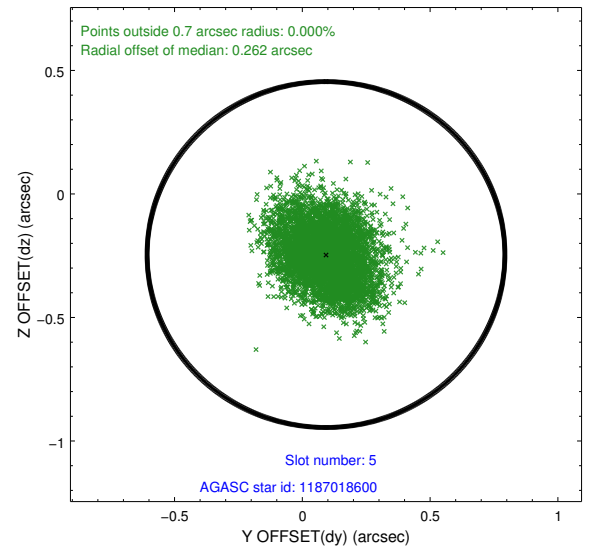
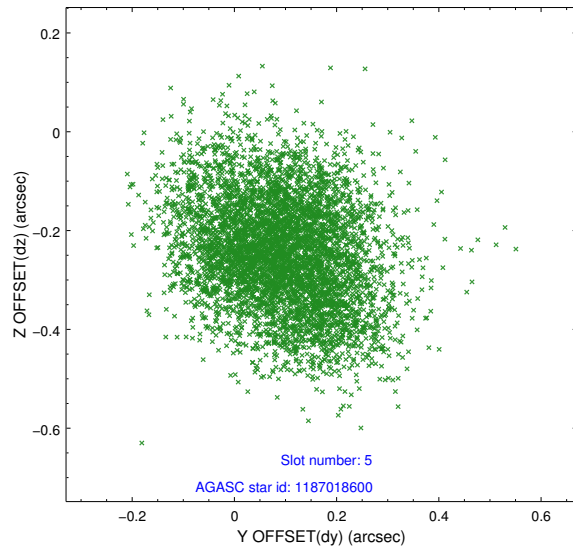
2.4.1 Slot 3



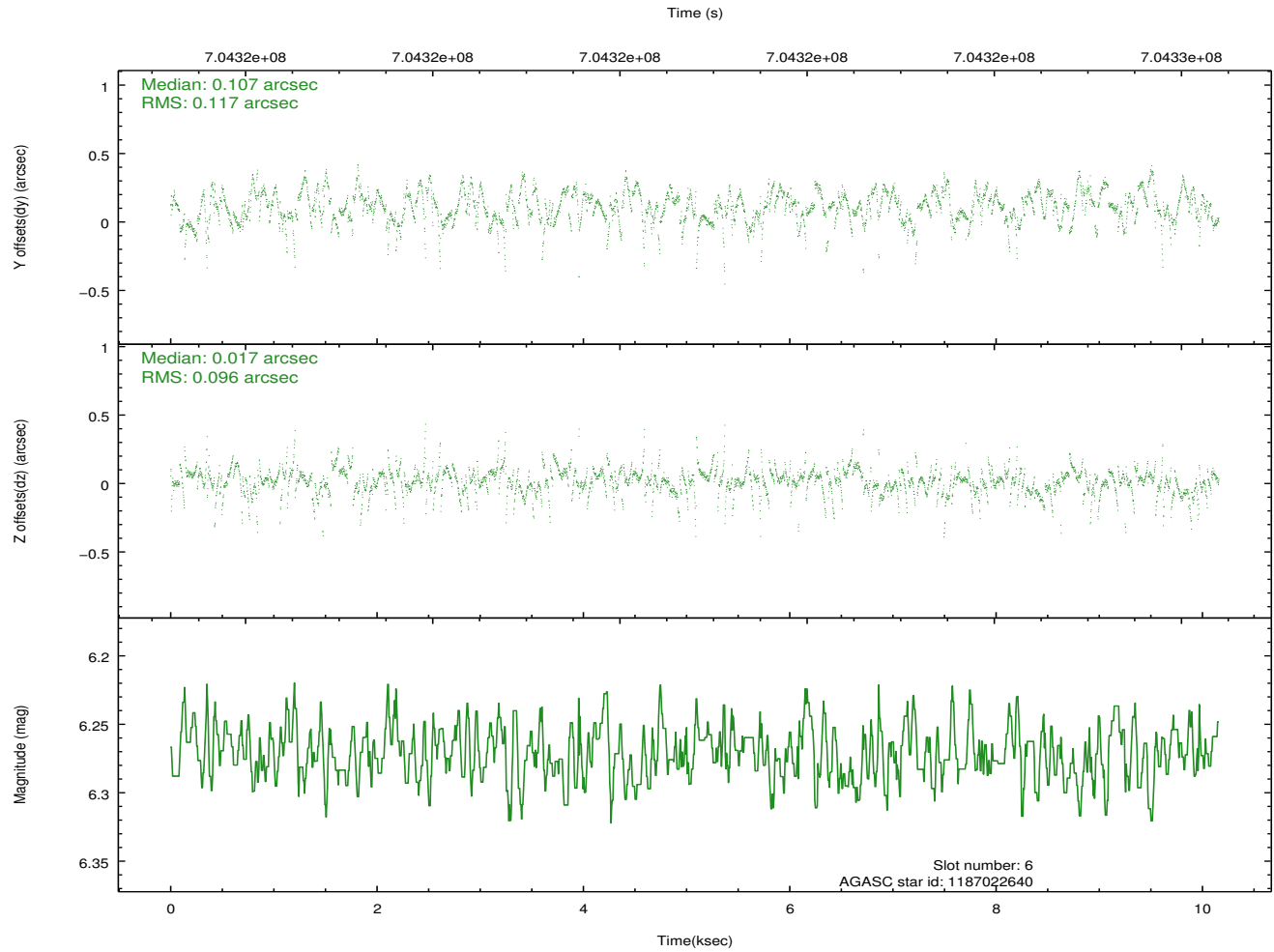
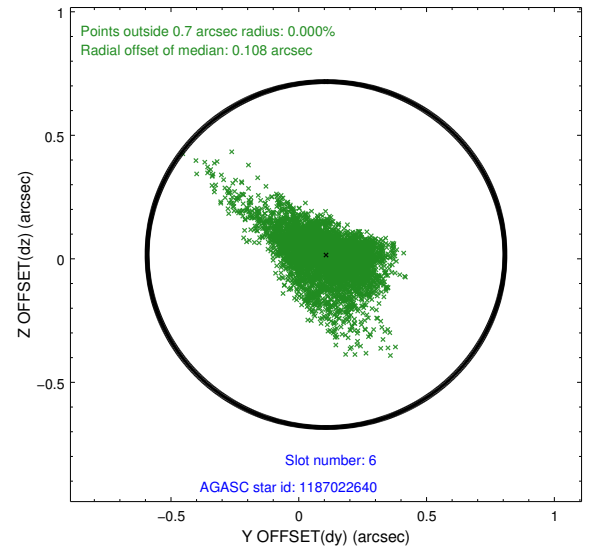
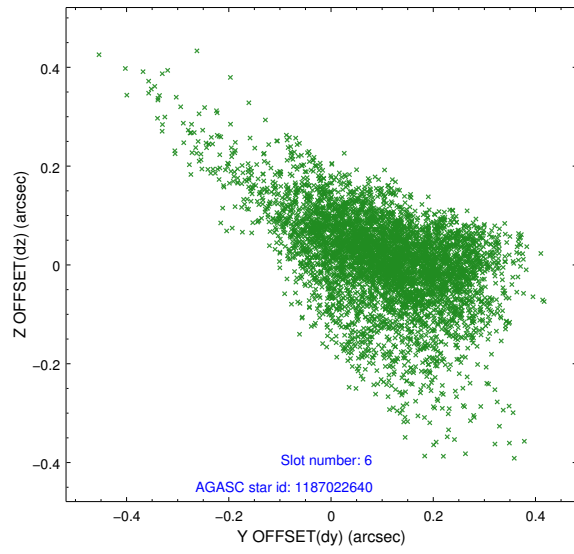
2.4.2 Slot 4



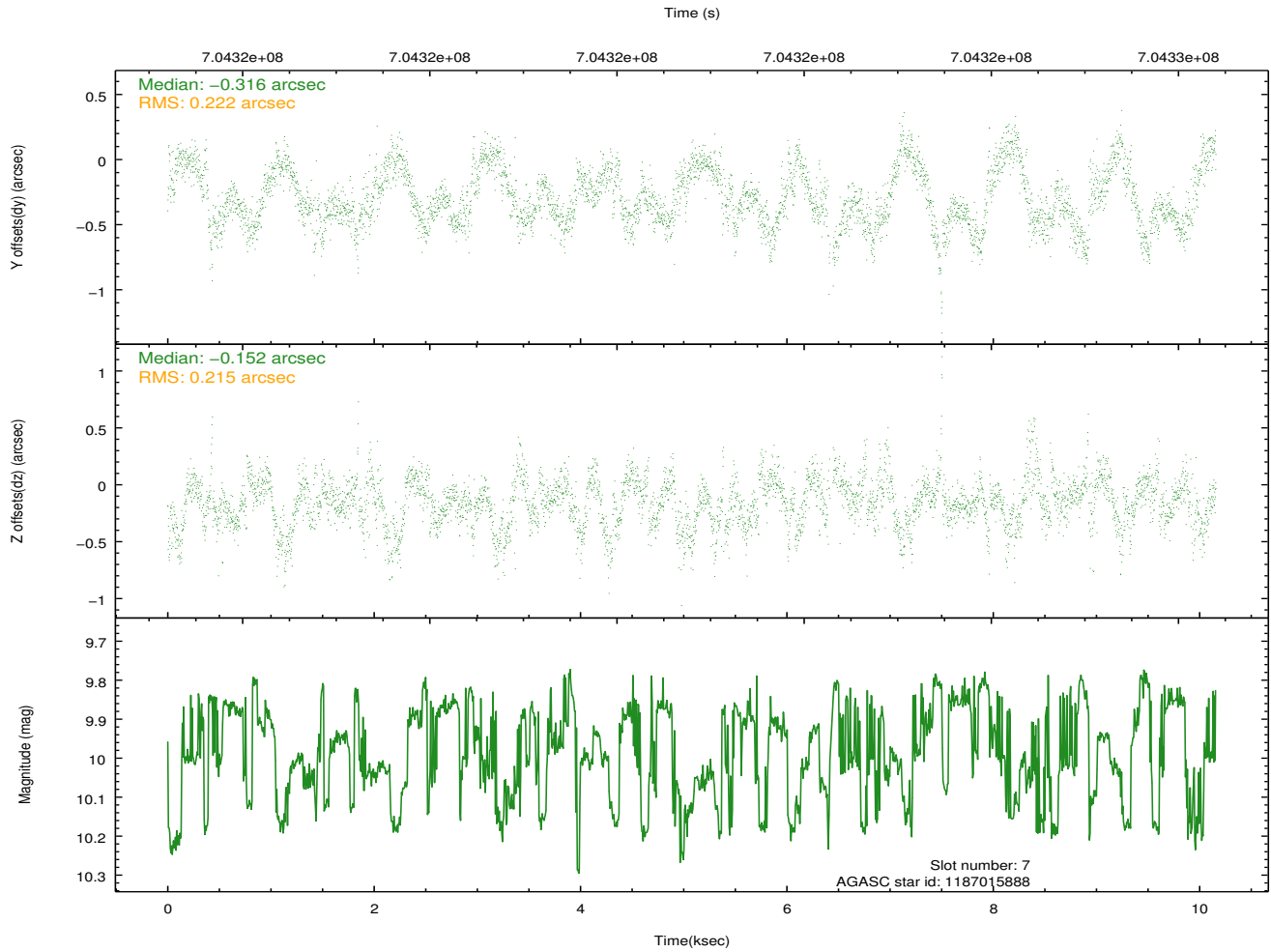
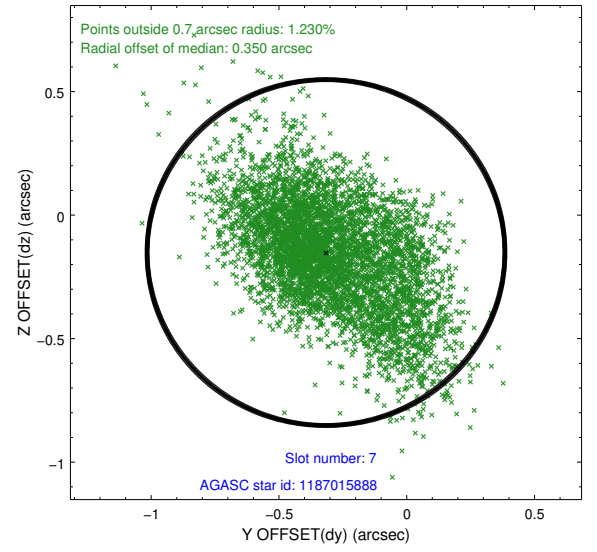
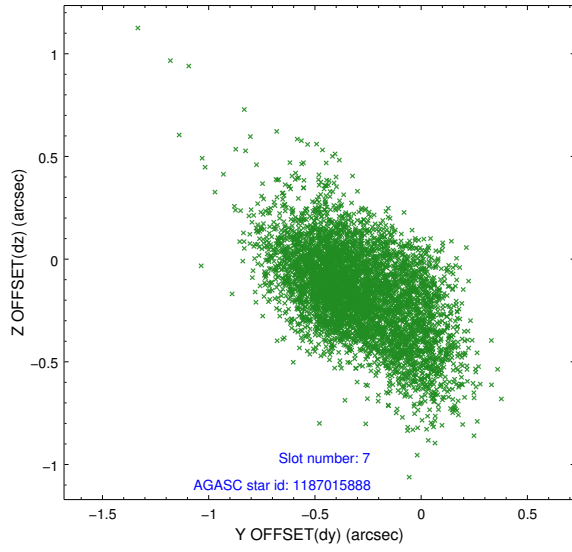
2.4.3 Slot 5



2.4.4 Slot 6

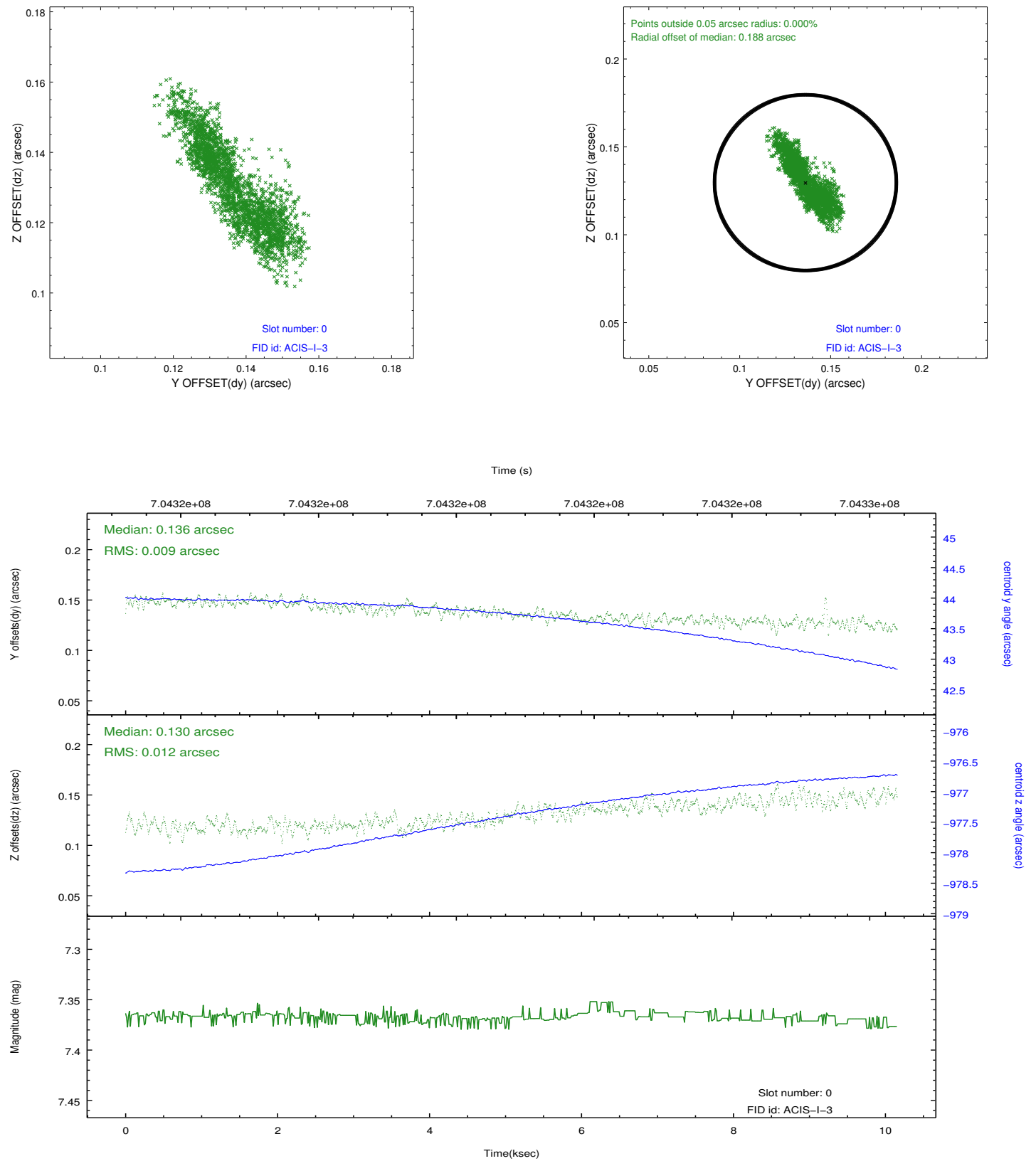


2.4.5 Slot 7

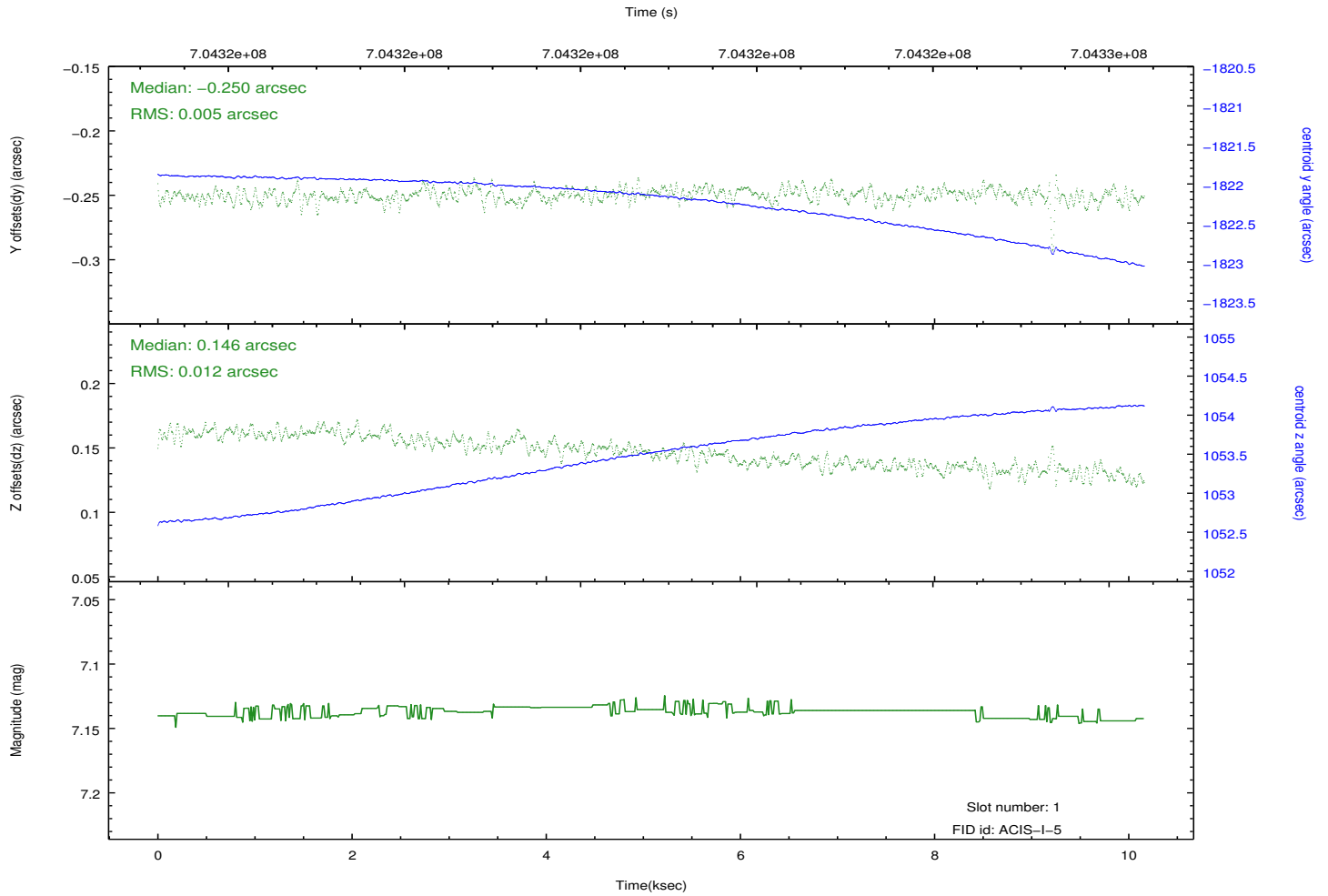
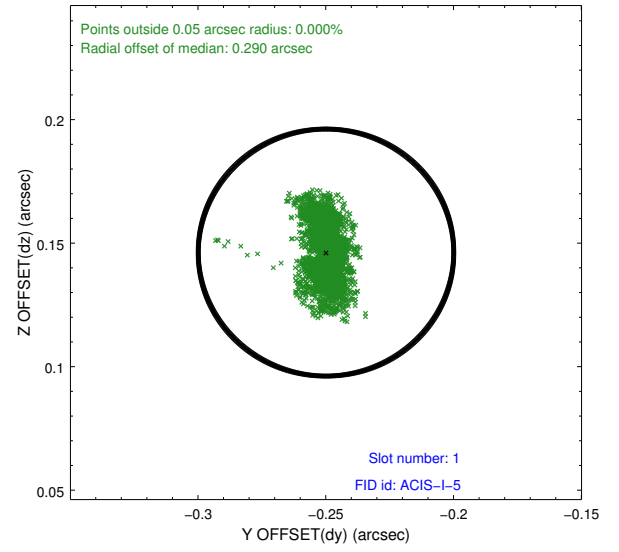
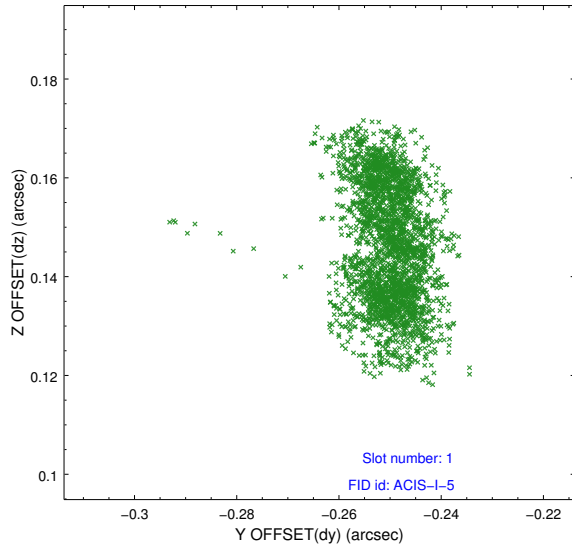


2.5 FID Slots

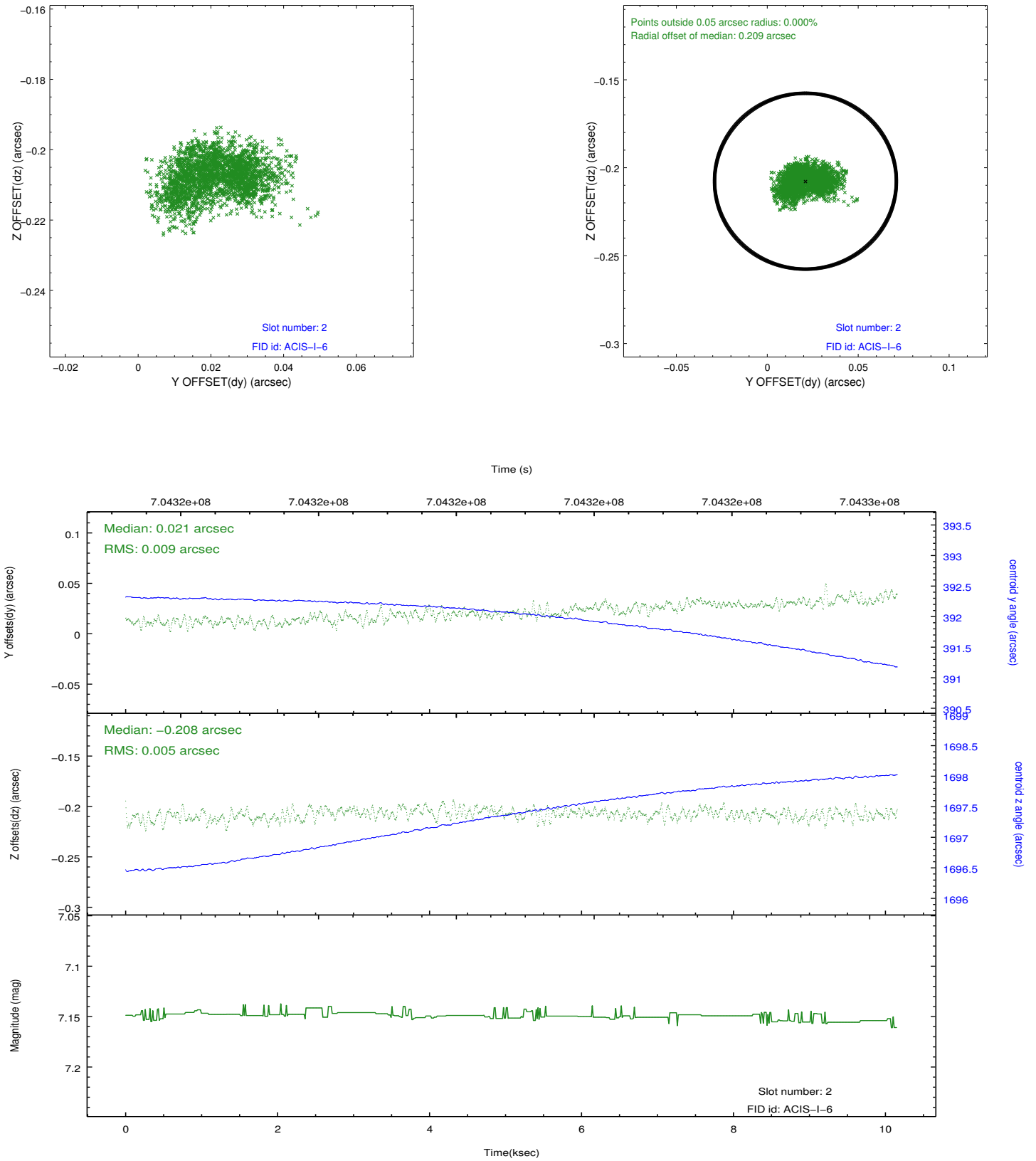
2.5.1 Slot 0



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)	2020.04.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.071859067559

A.2 Comments