

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 7188 - L2 Version 3
Chandra X-Ray Center

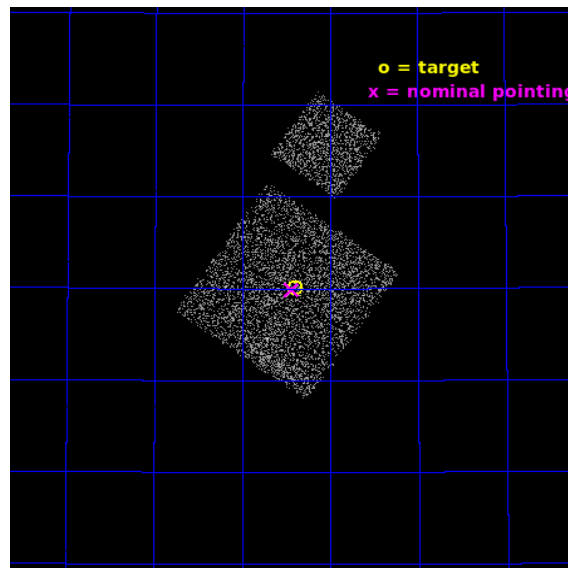
L2 Processing Date : Oct 11 2020

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1 Front

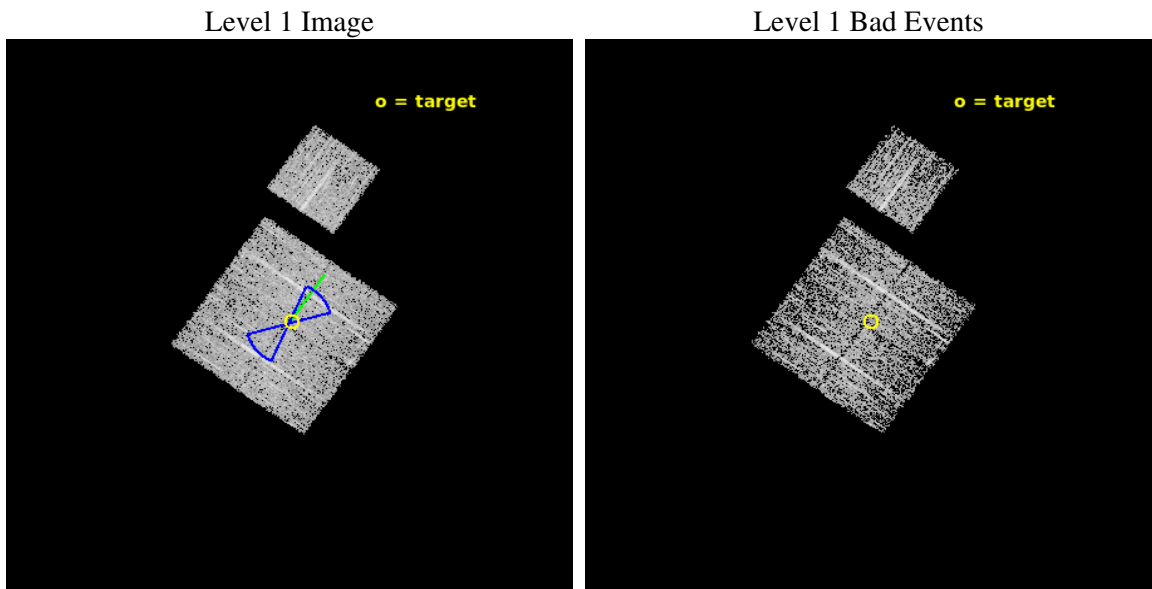
seq_num	900353	Sequence number
obs_id	7188	Observation id
title	Deep Chandra Imaging of the Extended Groth Strip: The Co-evolution of Black Holes and Galaxies	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	Extended Groth Strip (EGS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	214.102081	Observer's specified target RA [deg]
dec_targ	52.334053	Observer's specified target Dec [deg]
ra_nom	214.10940302605	Nominal RA [deg]
dec_nom	52.331306080094	Nominal Dec [deg]
roll_nom	35.192995838305	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2610.1999949515	Sum of GTIs [s]
livetime	2576.0958104162	Livetime [s]
ontime0	2610.1999949515	Sum of GTIs [s]
ontime1	2610.1999949515	Sum of GTIs [s]
ontime2	2610.1999949515	Sum of GTIs [s]
ontime3	2610.1999949515	Sum of GTIs [s]
ontime6	2610.1999949515	Sum of GTIs [s]
l2events	7619	Number of level 2 events



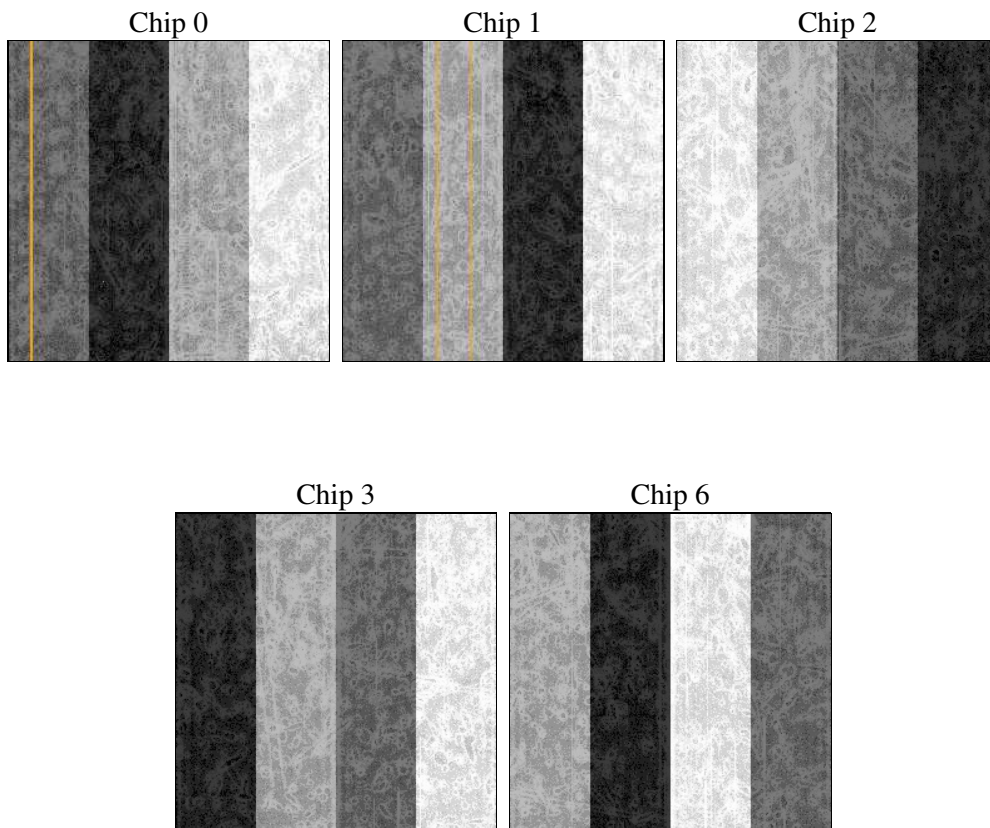
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	2610.1999949515	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	2610.1999949515	Sum of GTIs [s]
date	2020-10-12T03:29:21	Date and time of file creation	ontime1	2610.1999949515	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	2610.1999949515	Sum of GTIs [s]
			ontime3	2610.1999949515	Sum of GTIs [s]
			ontime6	2610.1999949515	Sum of GTIs [s]
			l1events	110168	Number of level 1 events

2.1.4 Events

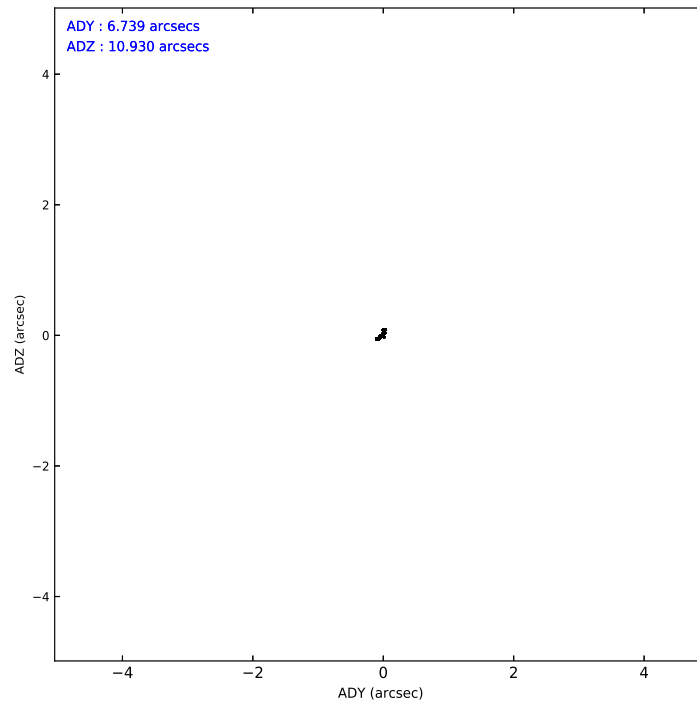
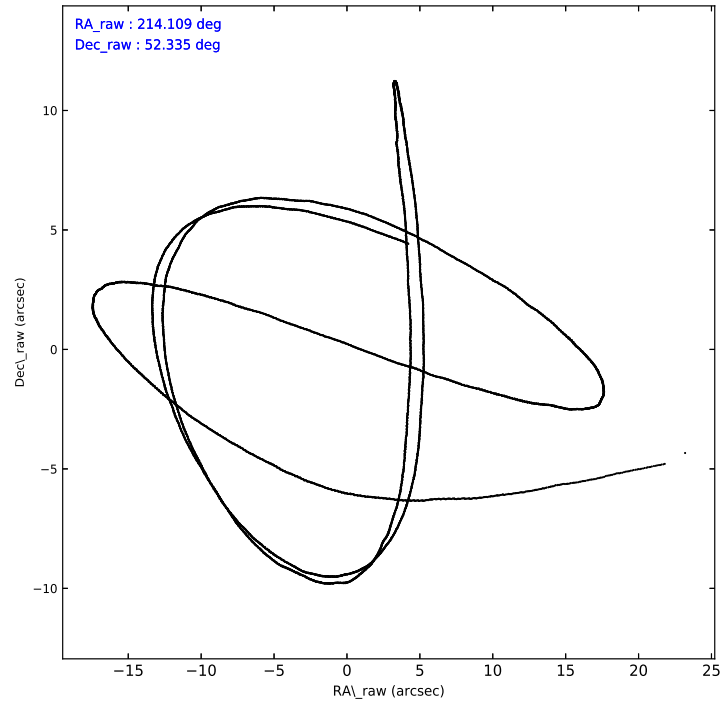
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	20952	21668	23066	22074	22408
rejected events	19188	19675	21335	20294	20512
rejected %	91%	90%	92%	91%	91%

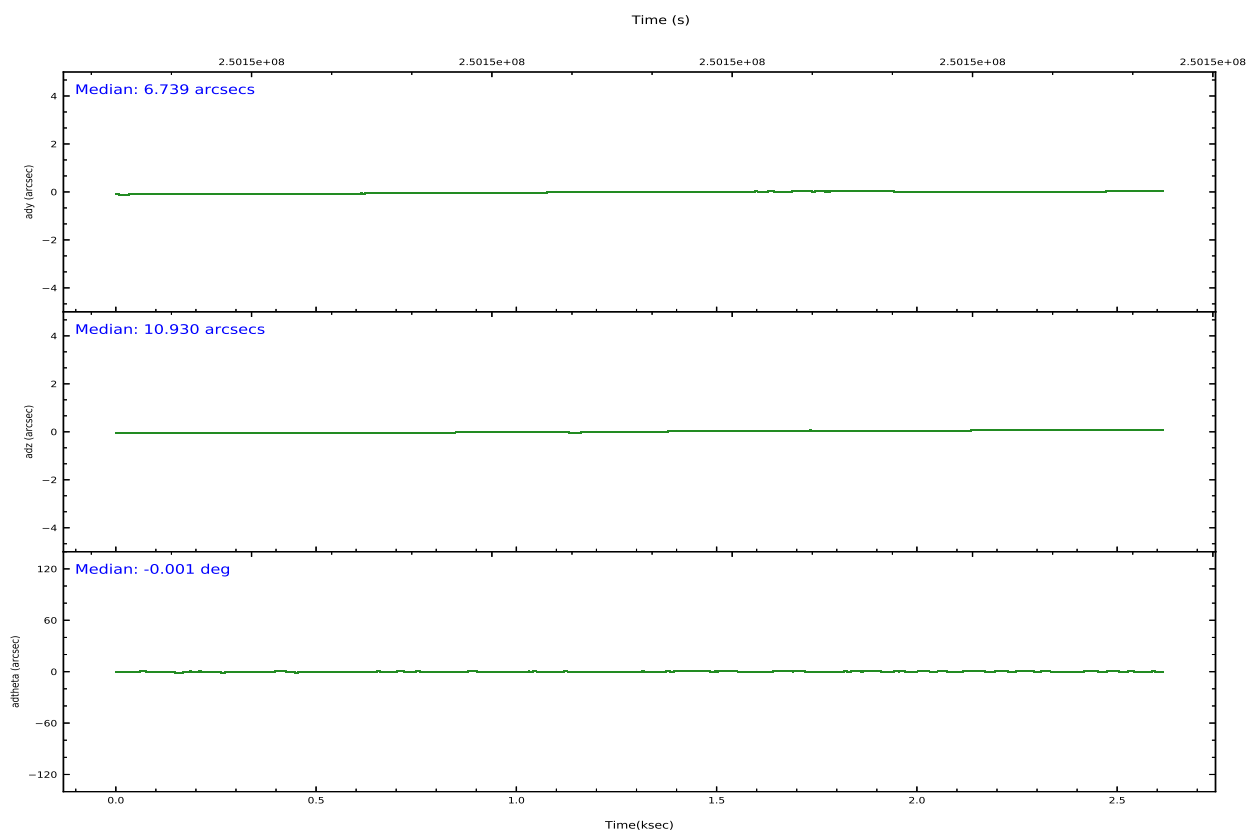
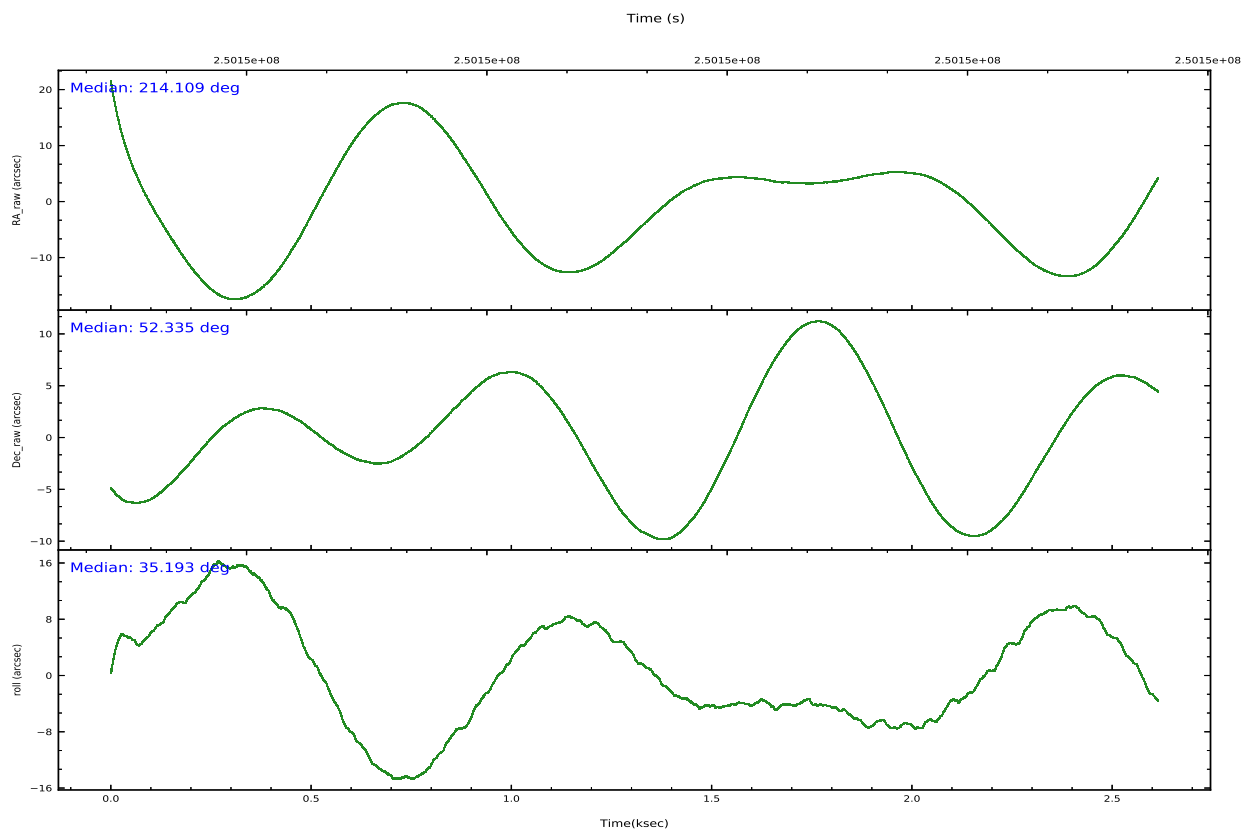
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	796	998	766	861	864
	3%	4%	3%	3%	3%
grade 1 events	13	8	13	15	10
	0%	0%	0%	0%	0%
grade 2 events	538	546	528	470	453
	2%	2%	2%	2%	2%
grade 3 events	263	271	210	252	292
	1%	1%	0%	1%	1%
grade 4 events	237	284	280	274	292
	1%	1%	1%	1%	1%
grade 5 events	757	836	722	871	861
	3%	3%	3%	3%	3%
grade 6 events	398	480	412	447	516
	1%	2%	1%	2%	2%
grade 7 events	17950	18245	20135	18884	19120
	85%	84%	87%	85%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	214.090878	214.10940302605	Subarray requested	NONE	NONE
[deg] Pointing Dec	52.310136	52.331306080094	Alternating exposures requested	N	N
[deg] Pointing Roll	35.008870	35.192995838305	[s] Primary exposure time	0.000000	3.1
[deg] Roll angle	50.756000	50.756000			
[deg] Roll tolerance	25.000000	25.000000			
Roll constraint allows 180D rotation	Y	Y			
[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)	250146776.184000	250145440.44631			
Observation start date	2005-12-05T05:11:52	2005-12-05T04:50:40			
[s] Observation end time (MET)	250149276.184000	250149999.64652			
Observation end date	2005-12-05T05:53:32	2005-12-05T06:06:39			
Read mode	TIMED	TIMED			

2.3 Aspect



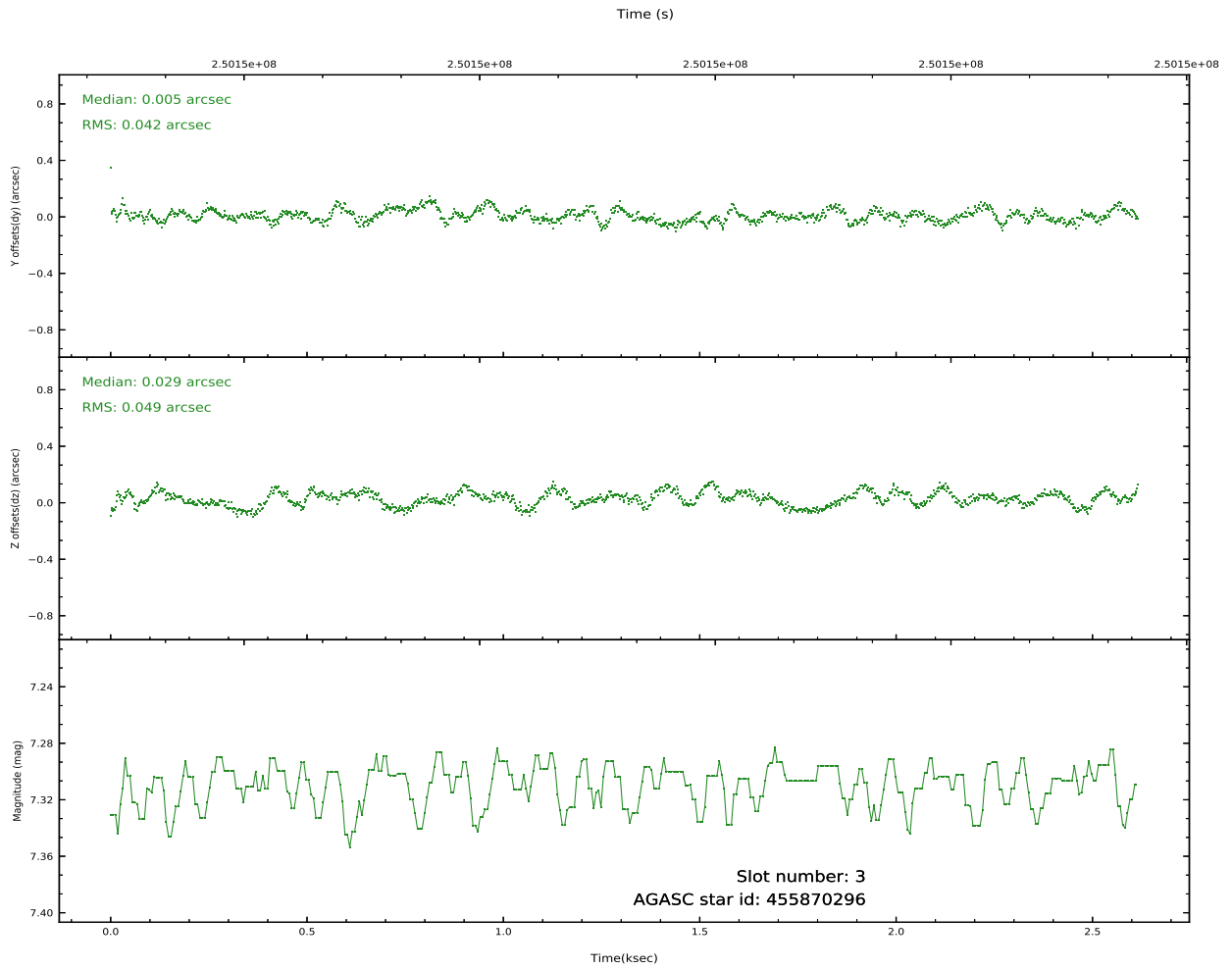
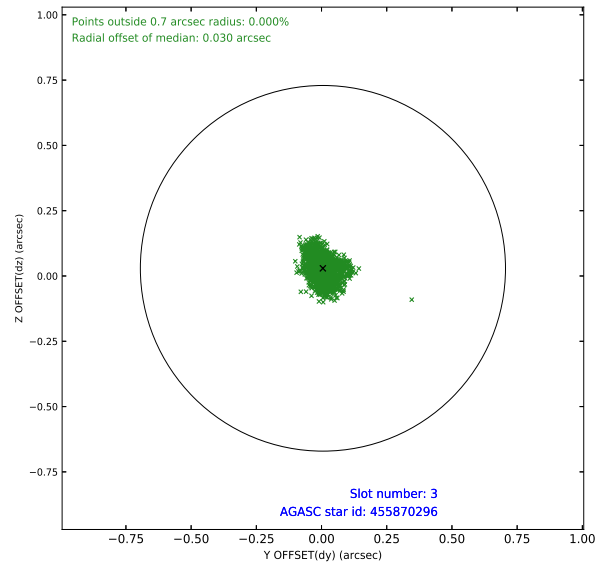
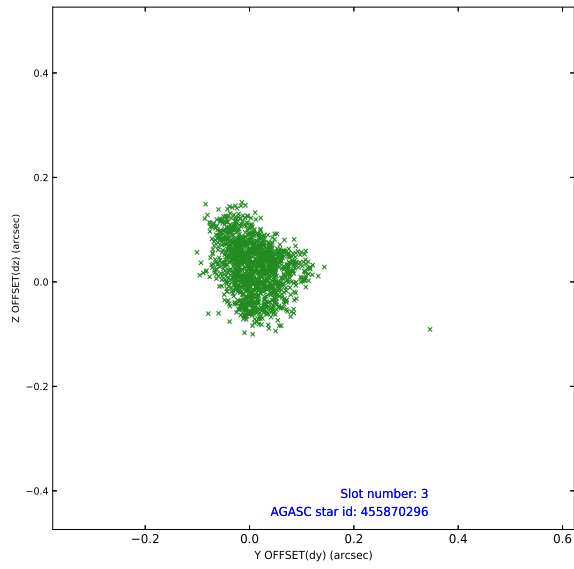


Slot Statistics

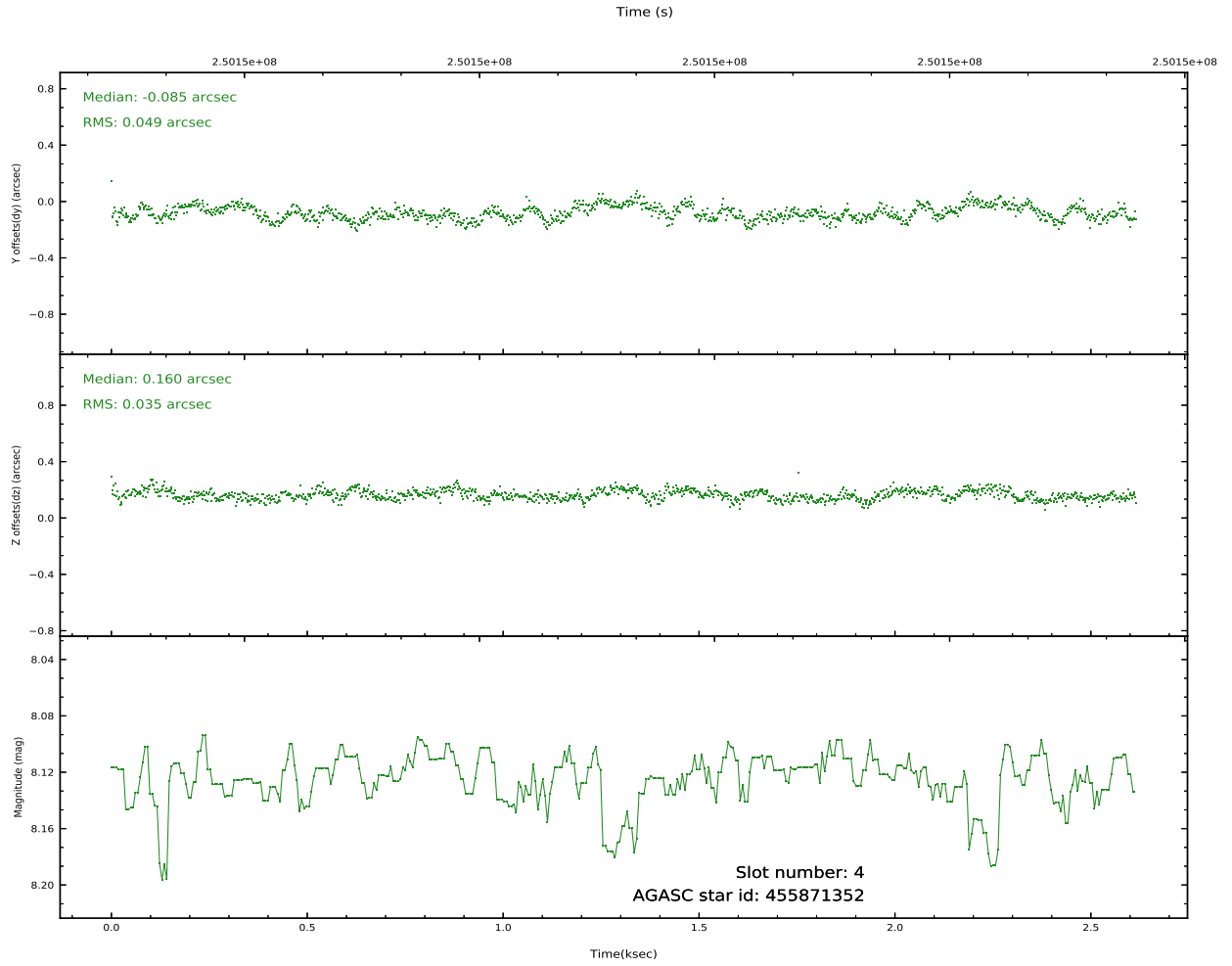
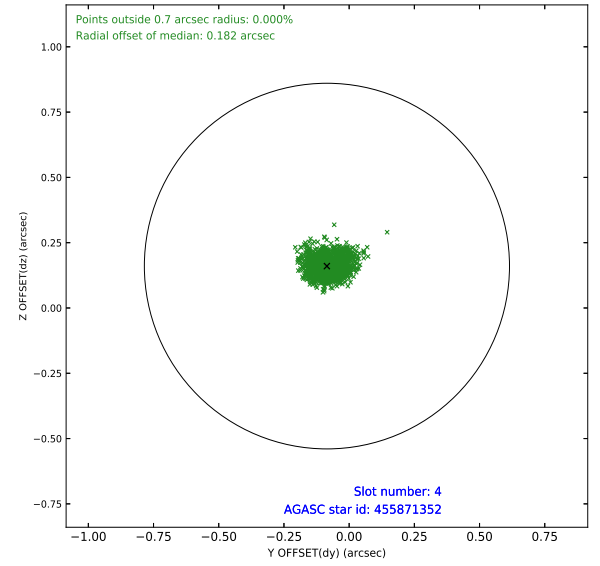
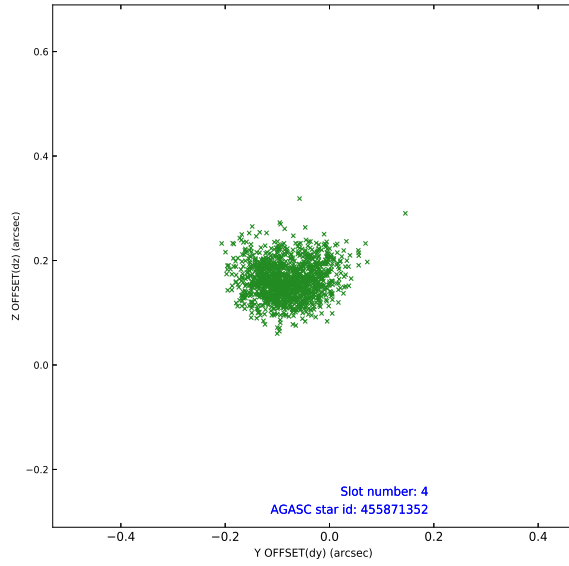
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.25	638	1.000	0.044	-0.049	0.007	0.012	0.000000	0.000000	933.01	-834
1	FID		ACIS-I-5	7.23	638	1.000	-0.200	0.043	0.006	0.011	0.000000	0.000000	-1813.95	1061
2	FID		ACIS-I-6	7.25	638	1.000	0.064	0.075	0.007	0.011	0.000000	0.000000	395.92	1709
3	GUIDE	used	455870296	7.31	1277	1.000	0.005	0.029	0.071	0.105	214.629779	52.033323	409.74	-1497
4	GUIDE	used	455871352	8.12	1277	1.000	-0.085	0.160	0.064	0.104	215.099961	52.172669	1551.39	-1671
5	GUIDE	used	505806936	7.00	1276	1.000	0.052	0.009	0.065	0.112	213.820815	52.535927	-15.31	1004
6	GUIDE	used	505812376	7.57	1277	1.000	-0.116	-0.072	0.053	0.082	214.039537	52.937930	1205.83	1915
7	GUIDE	used	504894728	8.83	1275	1.000	0.130	-0.124	0.080	0.119	213.220892	52.722550	-693.63	2314

2.4 Star Slots

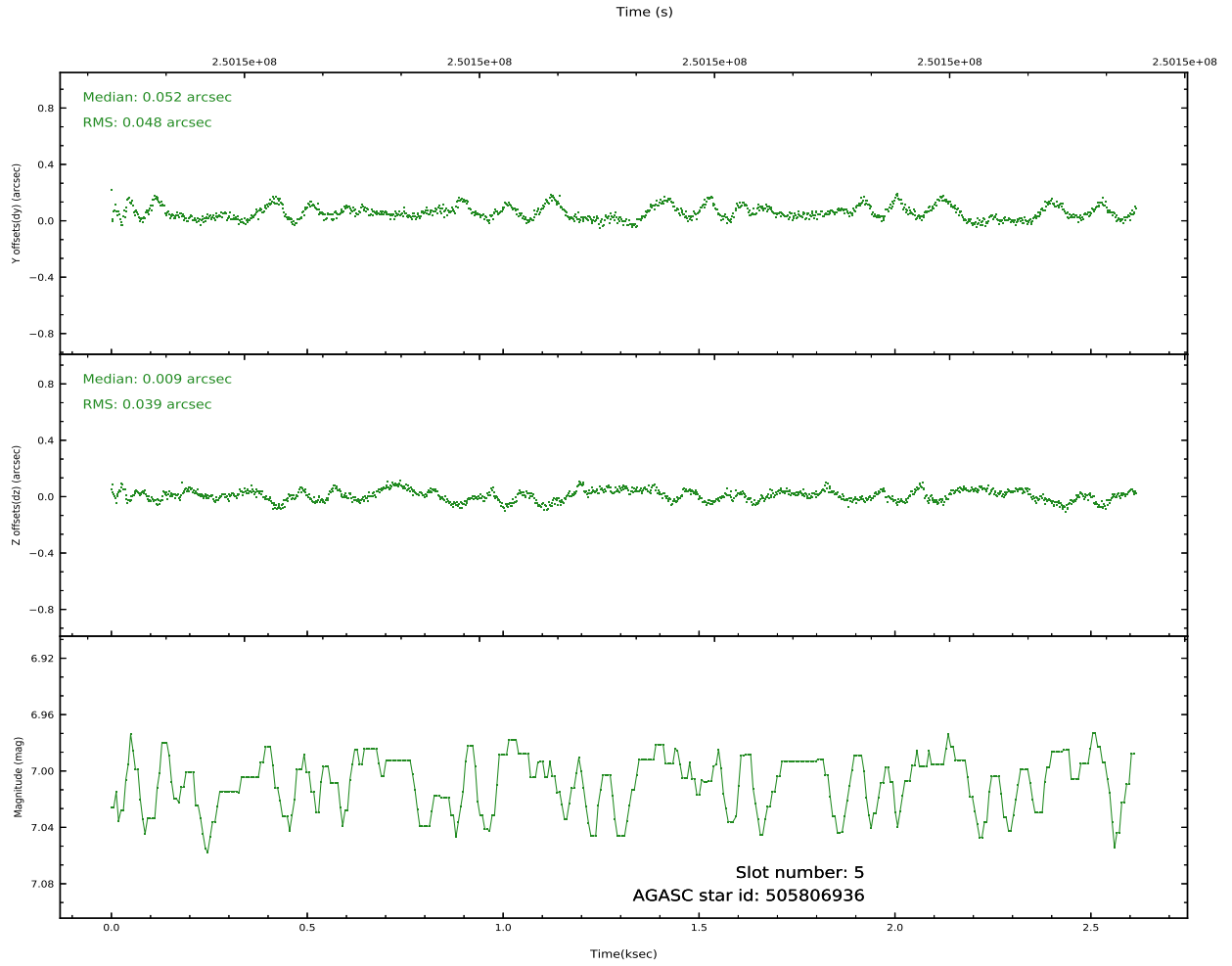
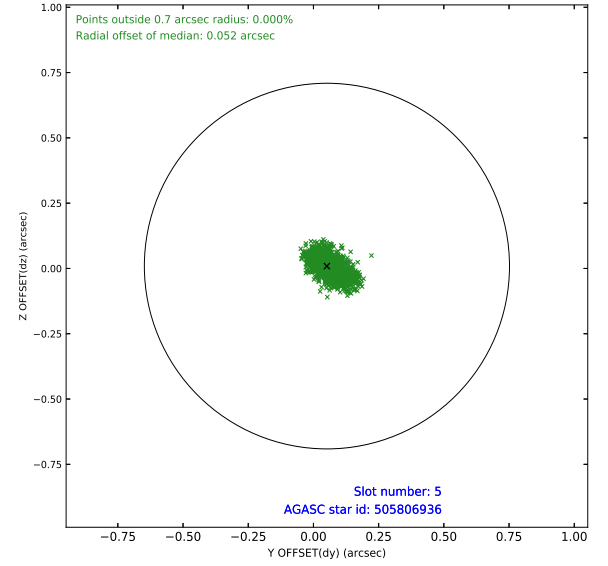
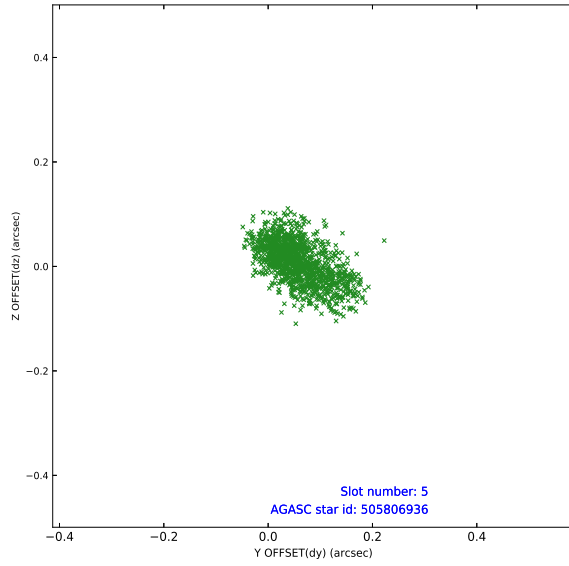
2.4.1 Slot 3



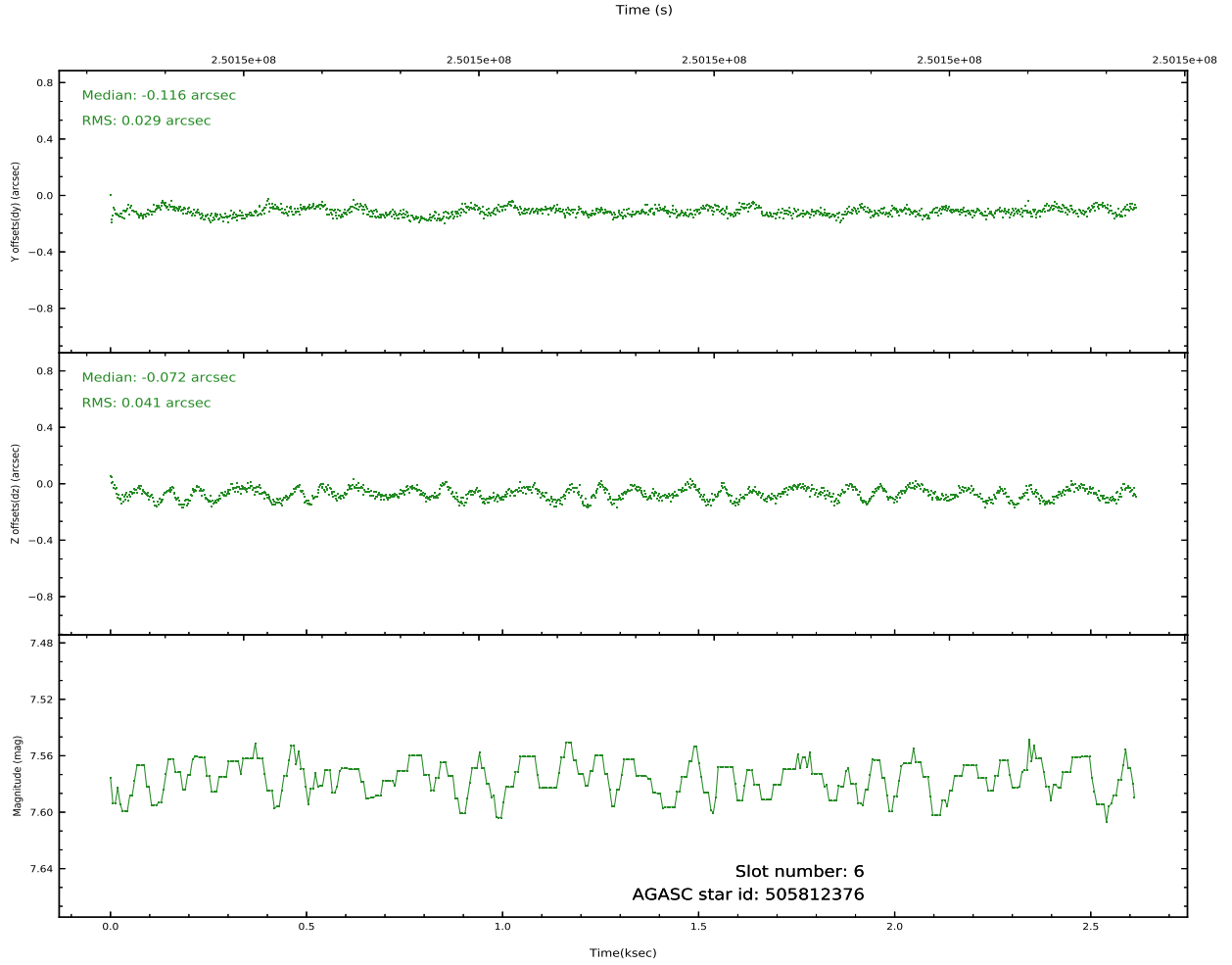
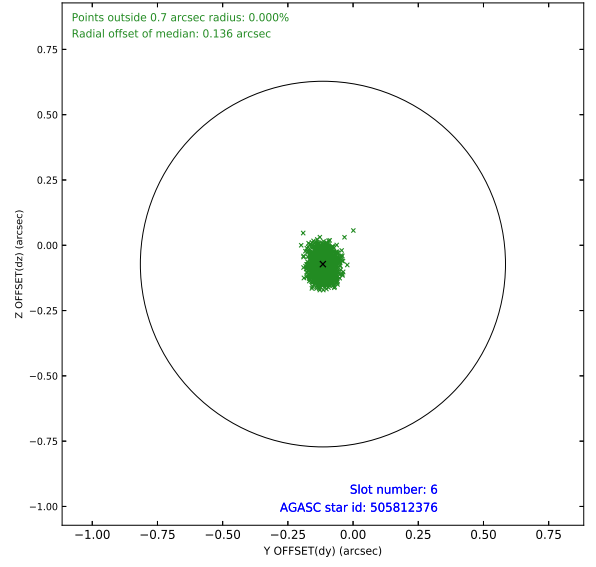
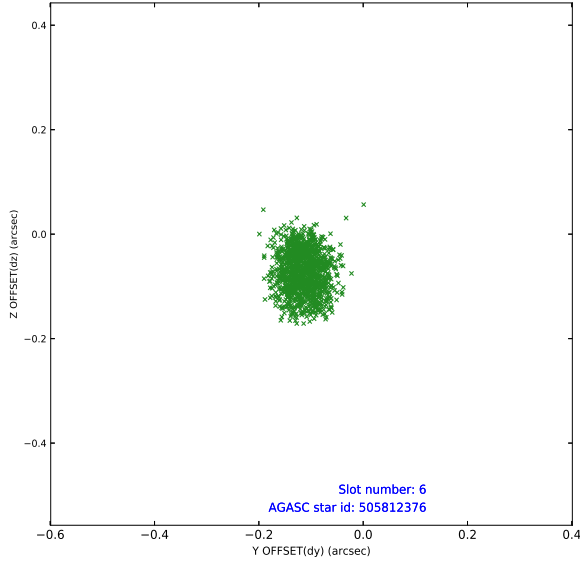
2.4.2 Slot 4



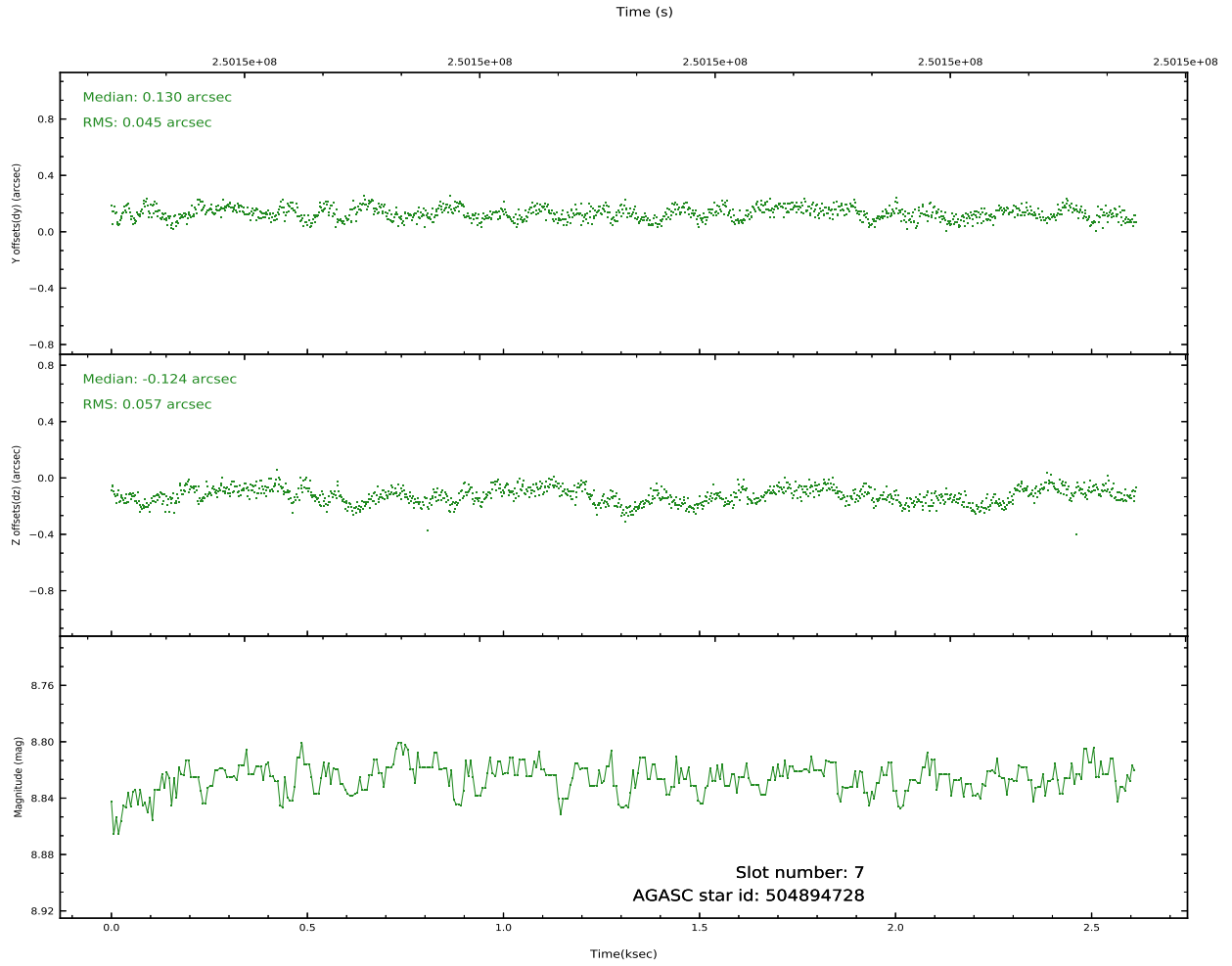
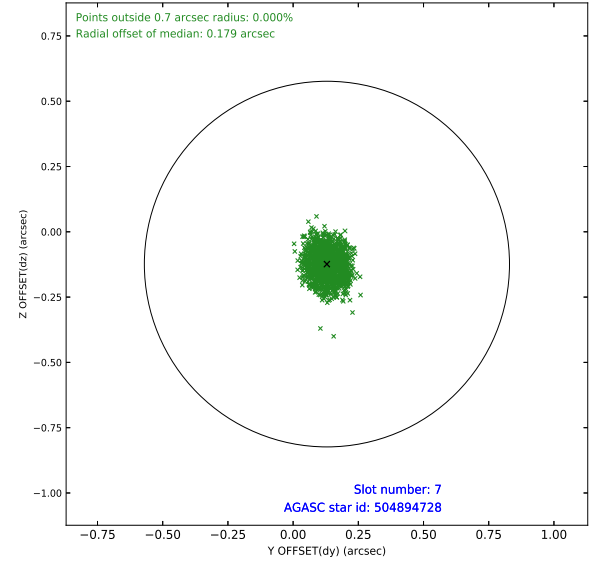
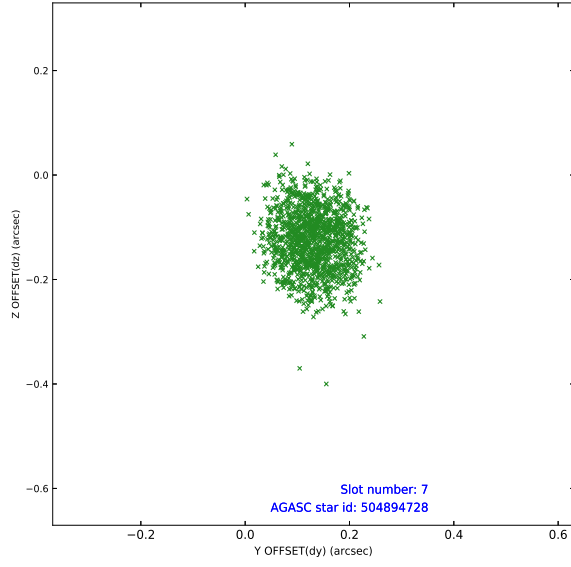
2.4.3 Slot 5



2.4.4 Slot 6

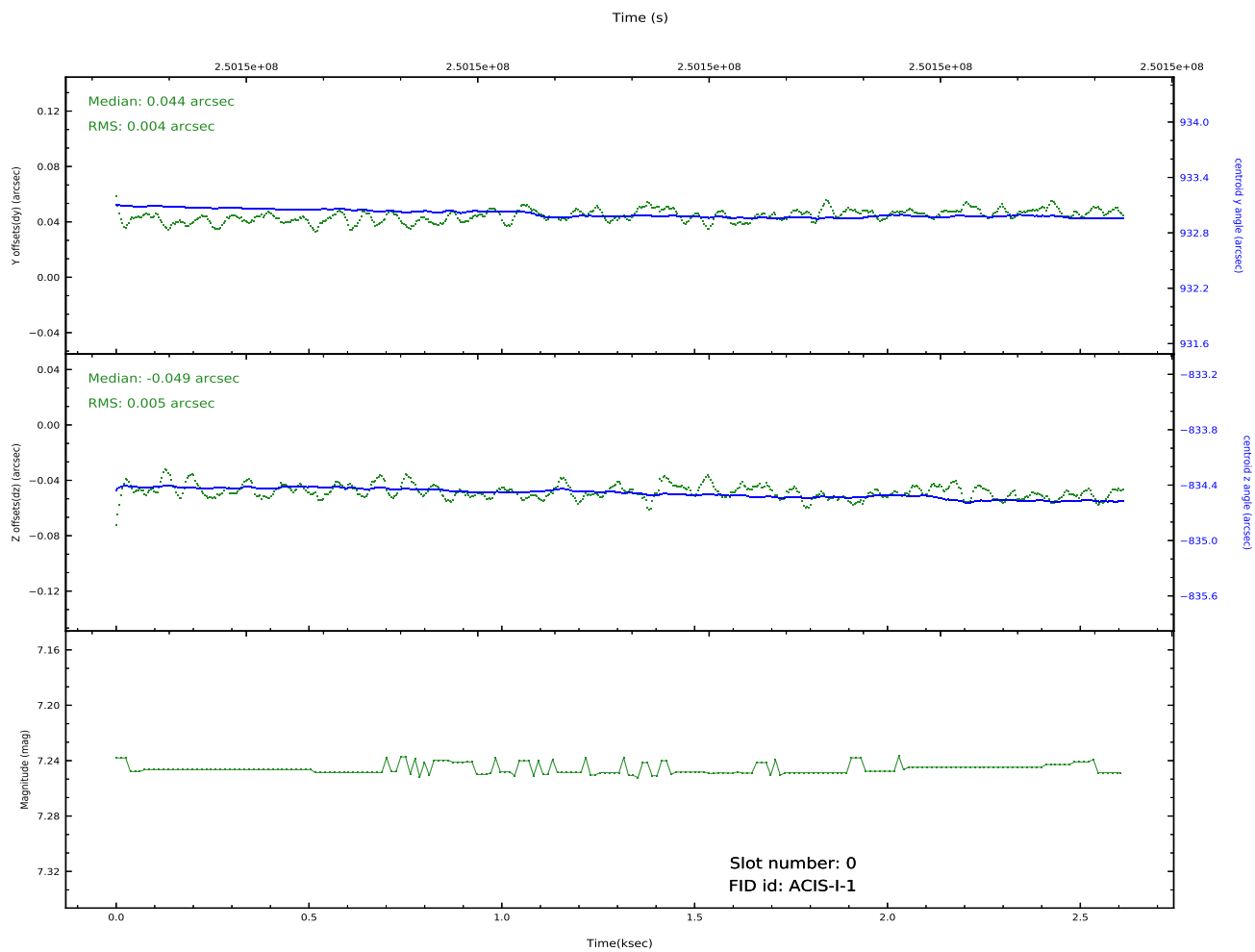
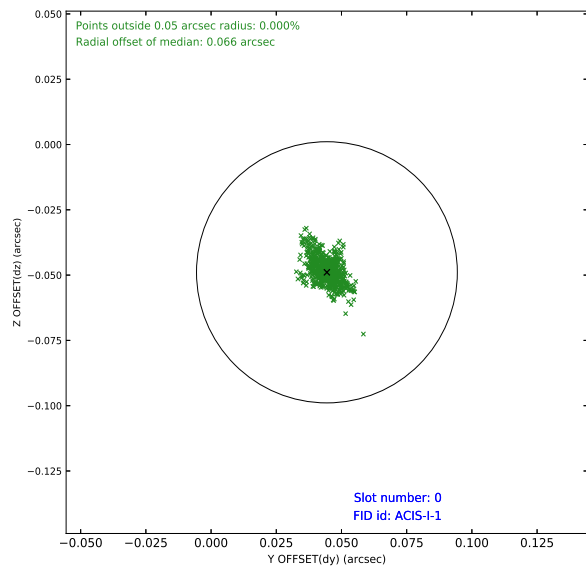
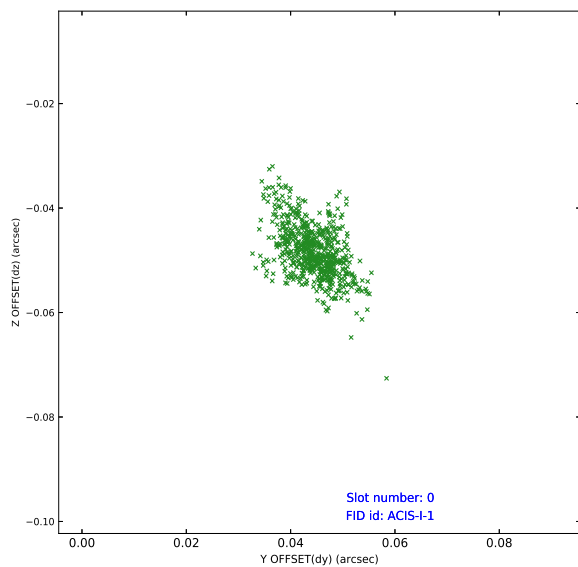


2.4.5 Slot 7

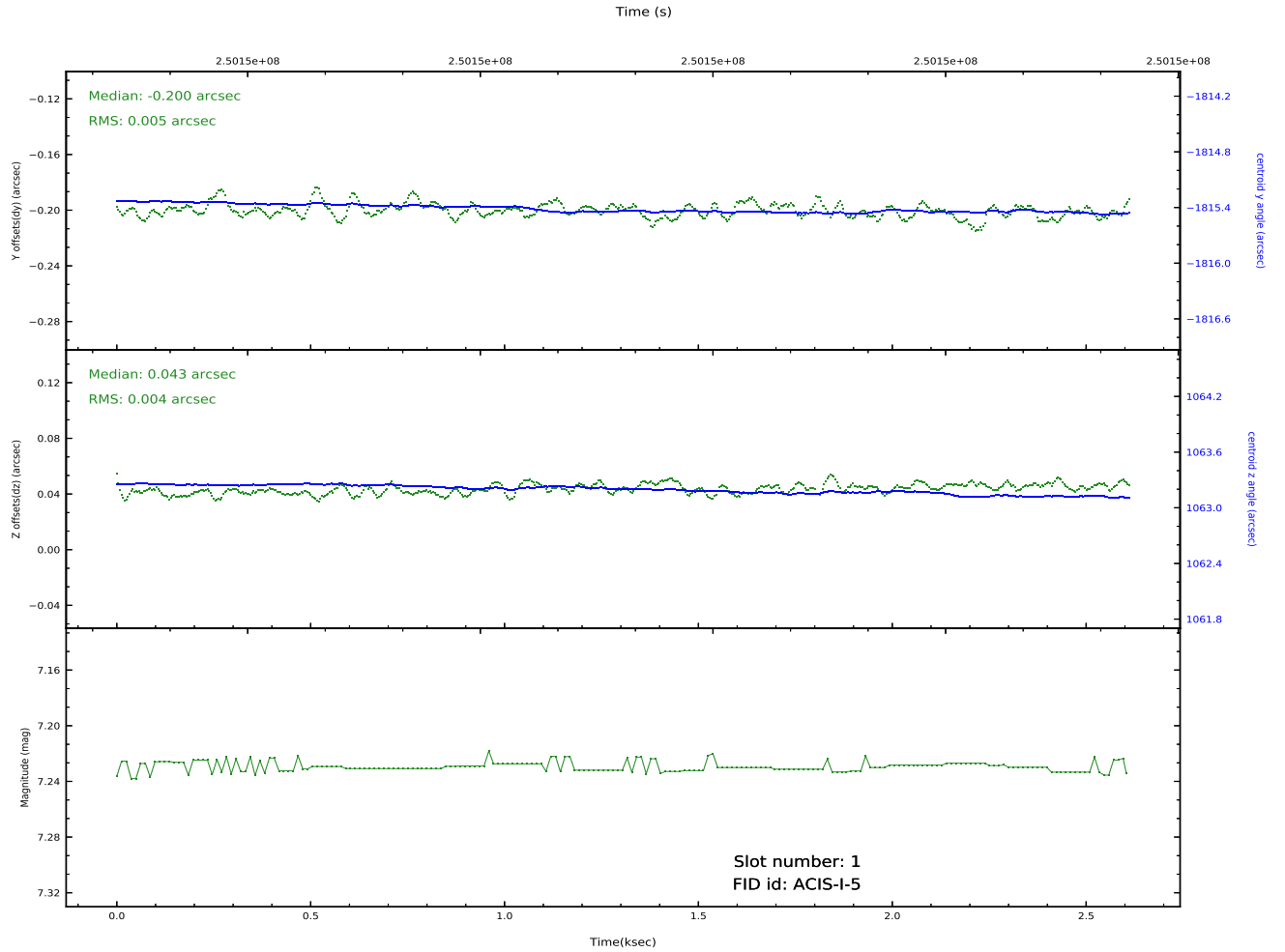
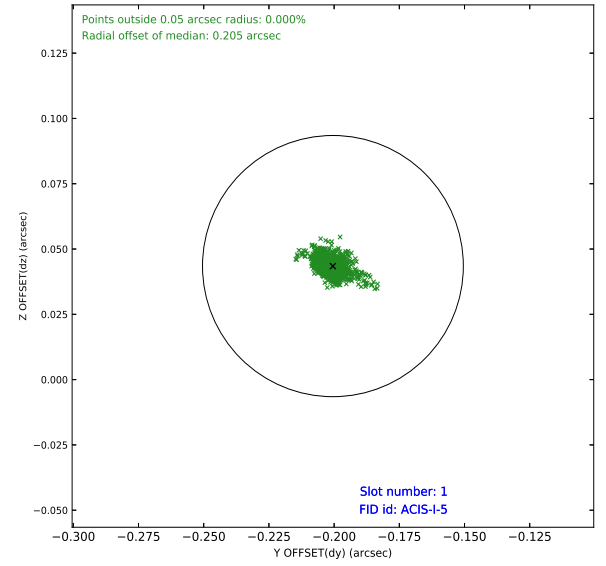
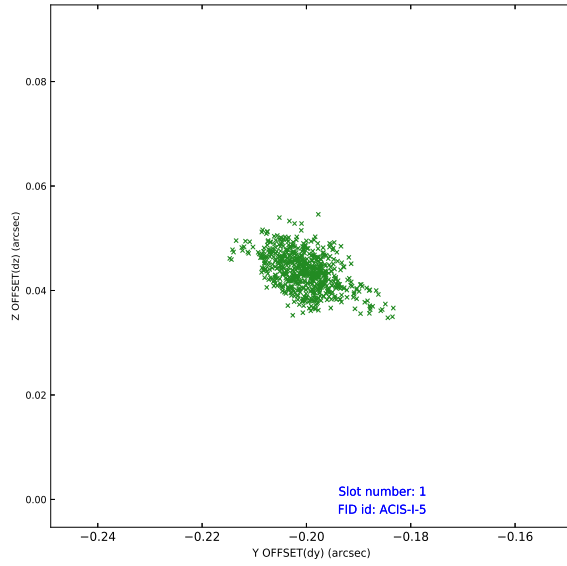


2.5 FID Slots

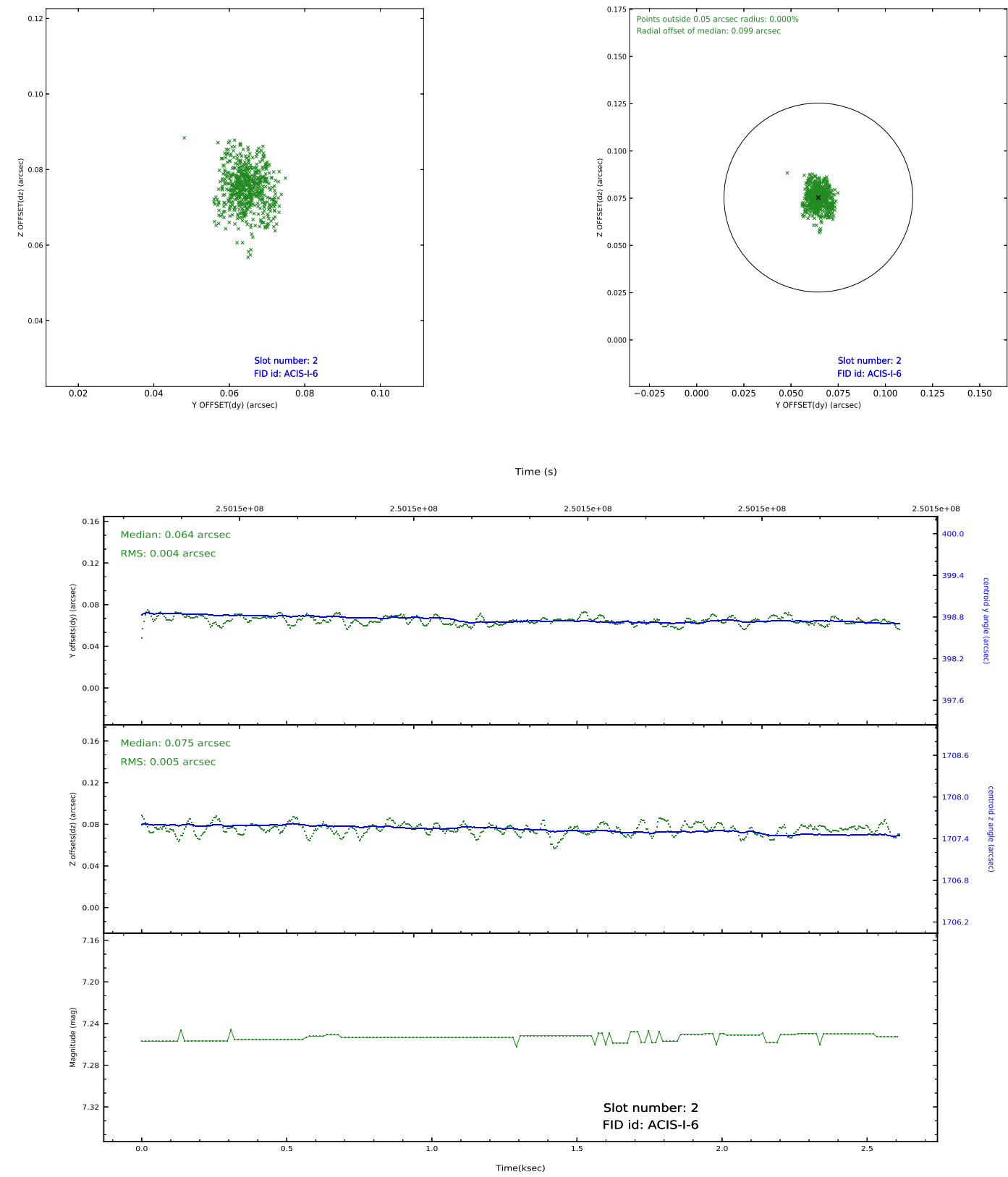
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.610199

A.2 Comments

Roll constraint met.