

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4696 - L2 Version 5
Chandra X-Ray Center

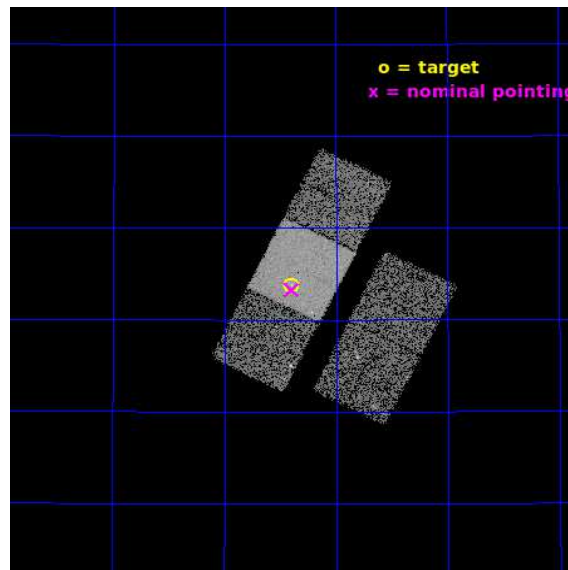
L2 Processing Date : Oct 4 2020

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1 Front

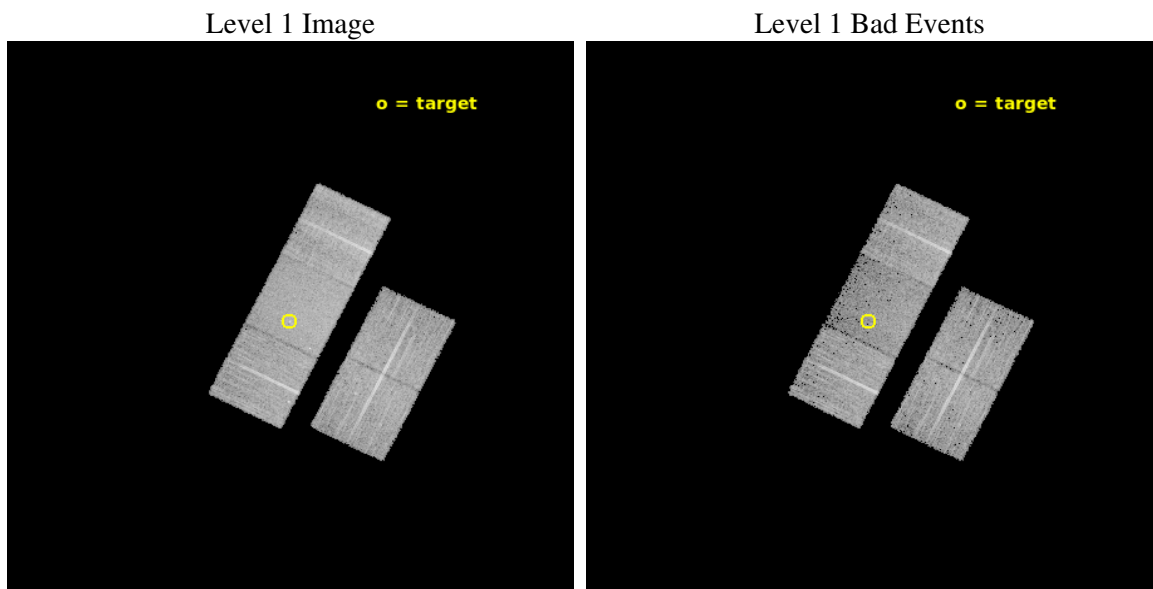
seq_num	600351	Sequence number
obs_id	4696	Observation id
title	Physics of Accretion Flows in Ultra-low Luminosity AGNs: A Mini Survey of a Distance-Limited Sample of Inactive Galaxies	Proposal tit
observer	Dr. Yuichi Terashima	Principal investigator
object	NGC 1023	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	40.1	Observer's specified target RA [deg]
dec_targ	39.063333	Observer's specified target Dec [deg]
ra_nom	40.098802589492	Nominal RA [deg]
dec_nom	39.054779603628	Nominal Dec [deg]
roll_nom	296.57528473636	Nominal Roll [deg]
revision	5	Processing version of data
ontime	10372.354148626	Sum of GTIs [s]
livetime	10236.831705658	Livetime [s]
ontime2	10337.803416103	Sum of GTIs [s]
ontime3	10347.226346791	Sum of GTIs [s]
ontime6	10362.931277722	Sum of GTIs [s]
ontime7	10372.354148626	Sum of GTIs [s]
ontime8	10340.944506079	Sum of GTIs [s]
l2events	51131	Number of level 2 events



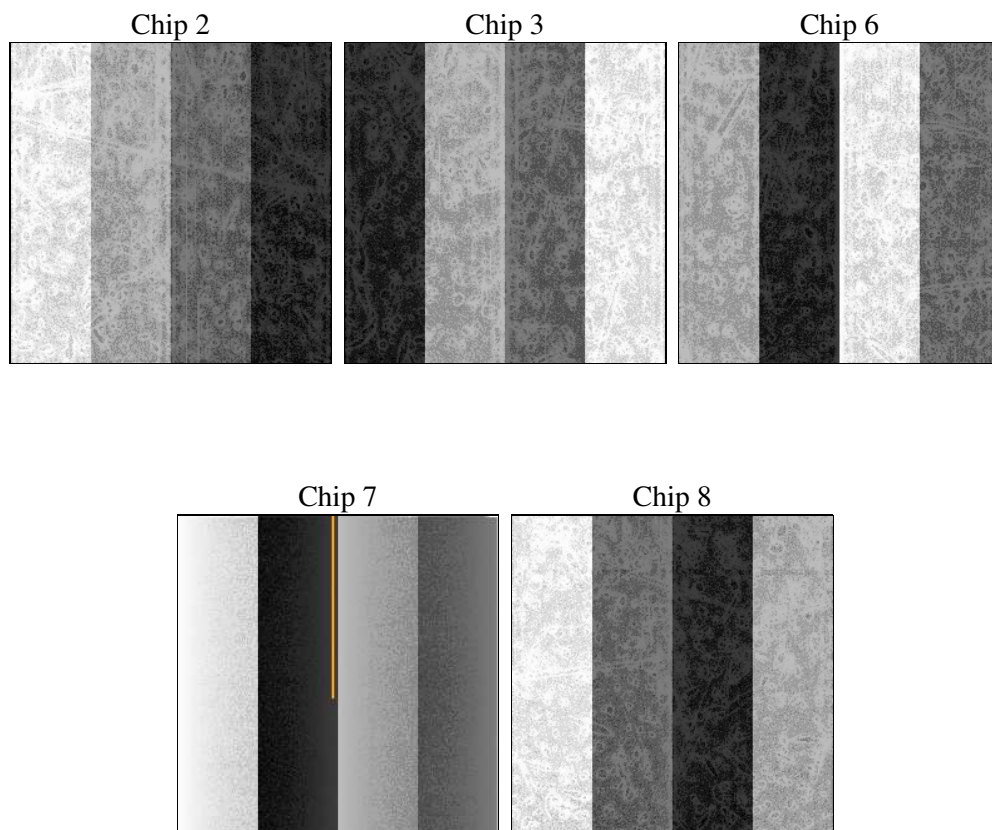
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10250.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10372.354148626	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	10337.803416103	Sum of GTIs [s]
date	2020-10-04T06:45:39	Date and time of file creation	ontime3	10347.226346791	Sum of GTIs [s]
revision	5	Processing version of data	ontime6	10362.931277722	Sum of GTIs [s]
			ontime7	10372.354148626	Sum of GTIs [s]
			ontime8	10340.944506079	Sum of GTIs [s]
			l1events	318487	Number of level 1 events

2.1.4 Events

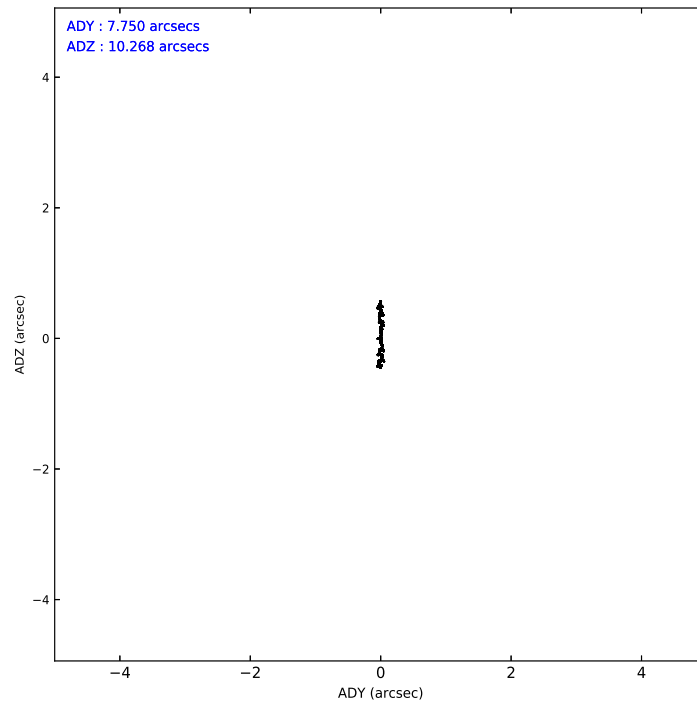
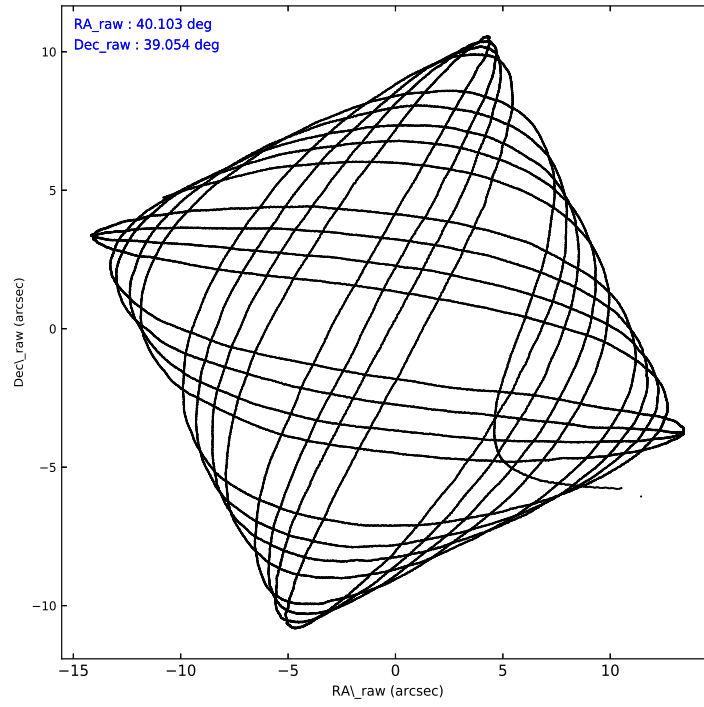
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	60501	56582	60450	66805	74149
rejected events	54534	51216	54125	36027	57334
rejected %	90%	90%	89%	53%	77%

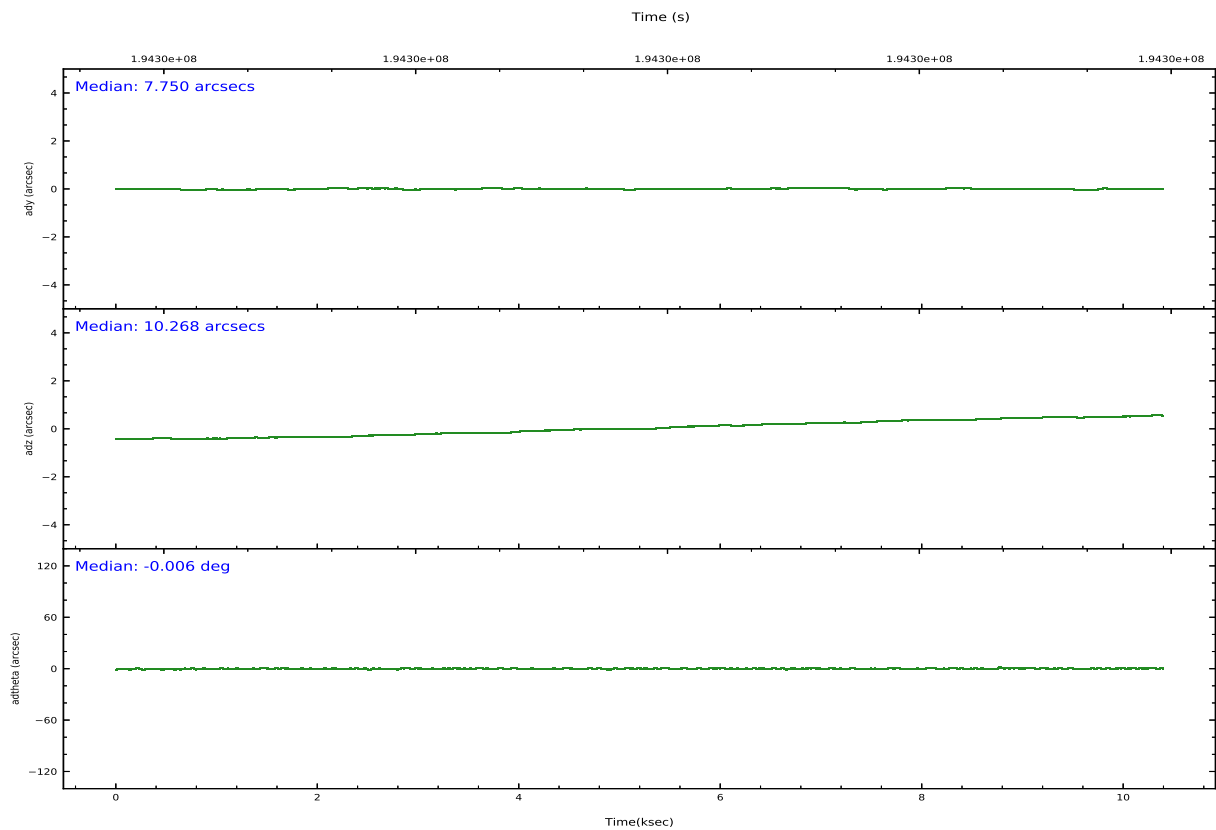
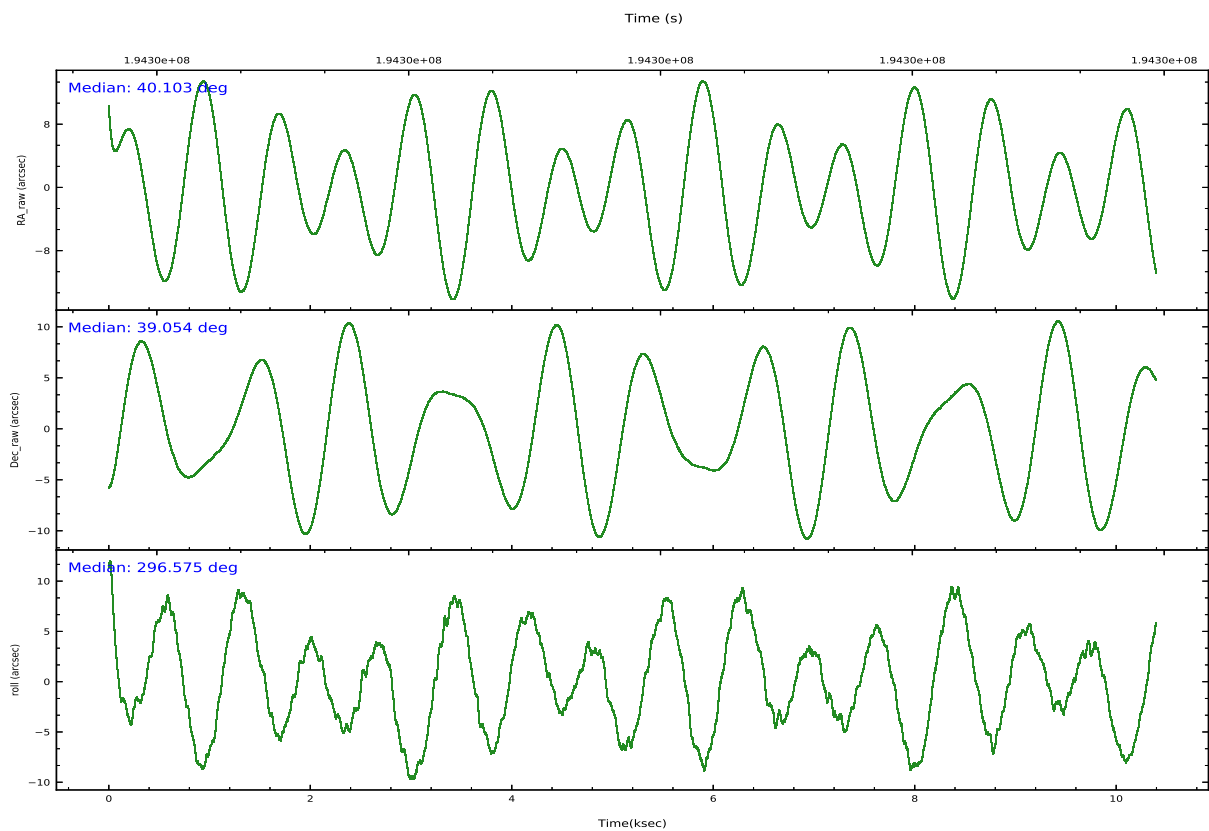
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2378	2000	2426	3064	5171
	3%	3%	4%	4%	6%
grade 1 events	20	30	34	51	46
	0%	0%	0%	0%	0%
grade 2 events	1362	1181	1344	6121	3724
	2%	2%	2%	9%	5%
grade 3 events	642	622	709	3035	1866
	1%	1%	1%	4%	2%
grade 4 events	656	620	676	2996	1755
	1%	1%	1%	4%	2%
grade 5 events	1977	2251	2411	6861	3397
	3%	3%	3%	10%	4%
grade 6 events	1062	1077	1302	16151	4520
	1%	1%	2%	24%	6%
grade 7 events	52404	48801	51548	28526	53670
	86%	86%	85%	42%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	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	40.074001	40.098802589492	Subarray requested	NONE	NONE
[deg] Pointing Dec	39.068751	39.054779603628	Alternating exposures requested	N	N
[deg] Pointing Roll	296.441337	296.57528473636	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	194294670.184000	194293586.65338			
Observation start date	2004-02-27T18:43:26	2004-02-27T18:26:26			
[s] Observation end time (MET)	194304920.184000	194305404.90389			
Observation end date	2004-02-27T21:34:16	2004-02-27T21:43:24			
Read mode	TIMED	TIMED			

2.3 Aspect



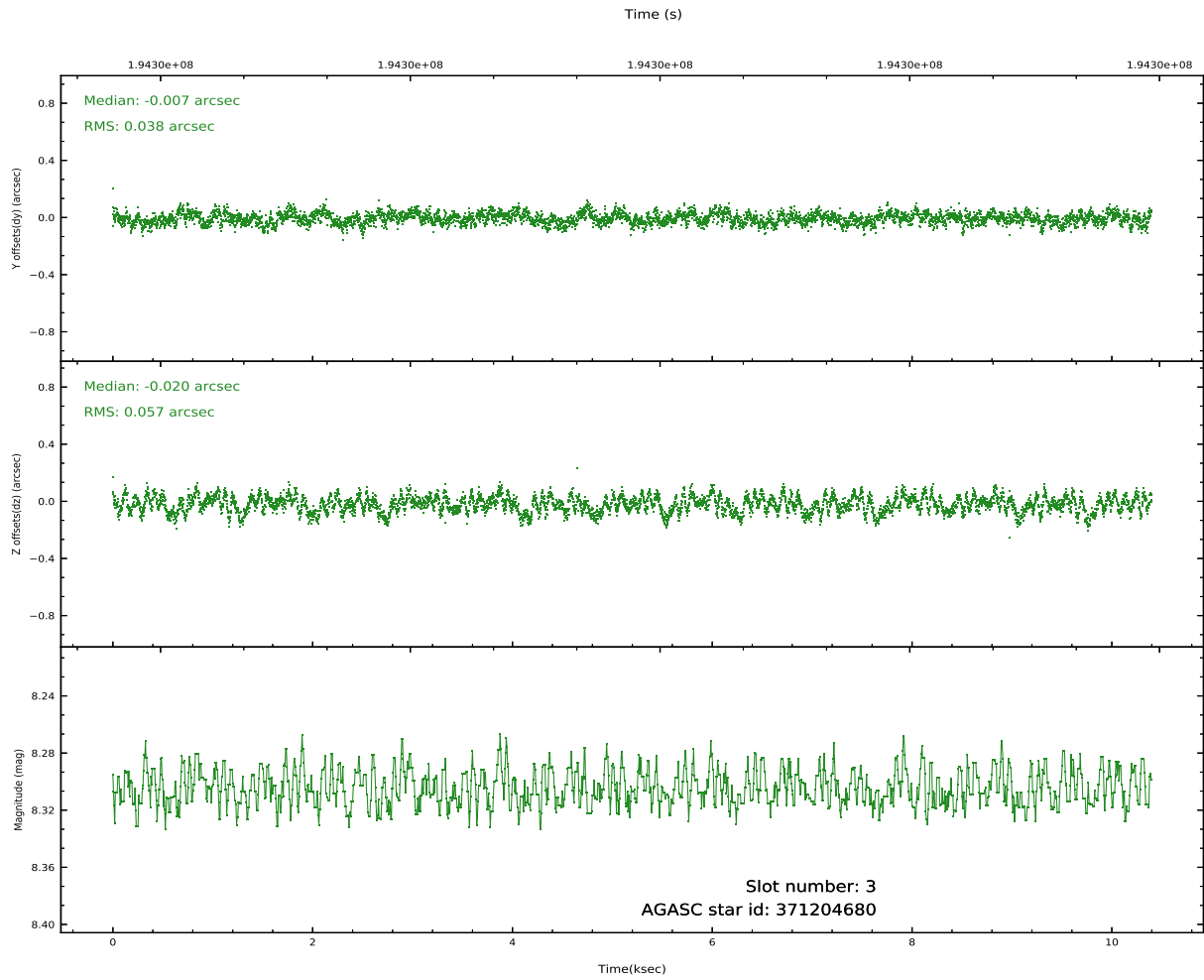
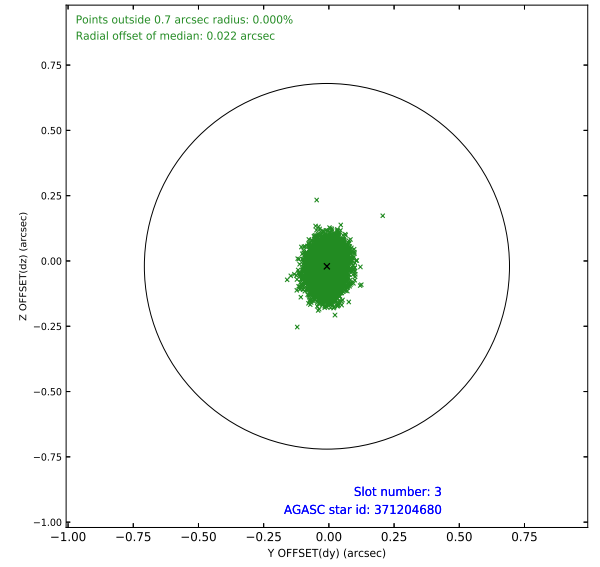
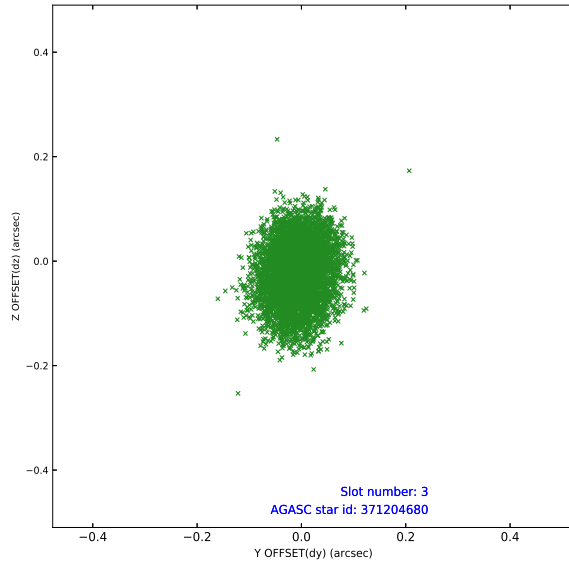


Slot Statistics

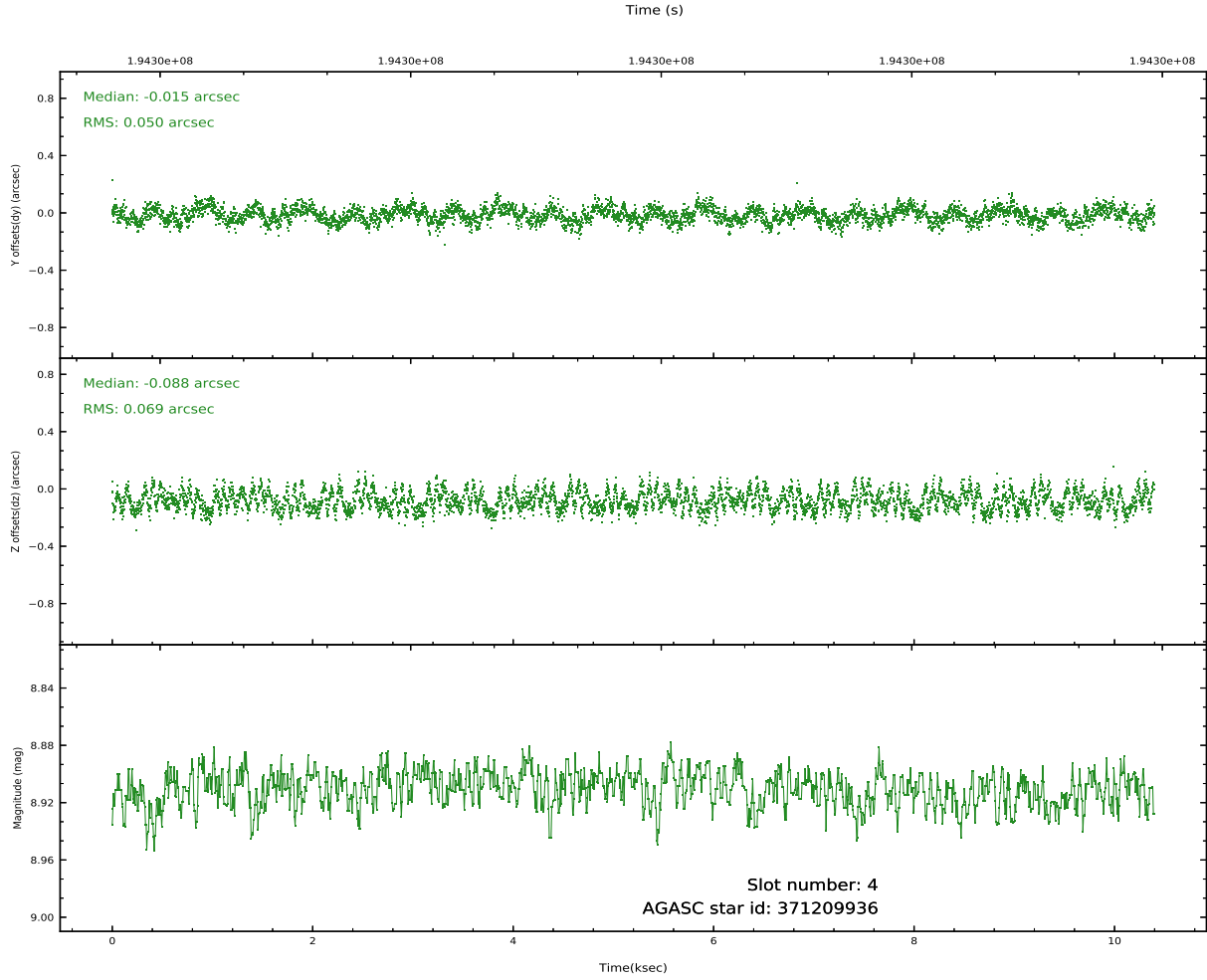
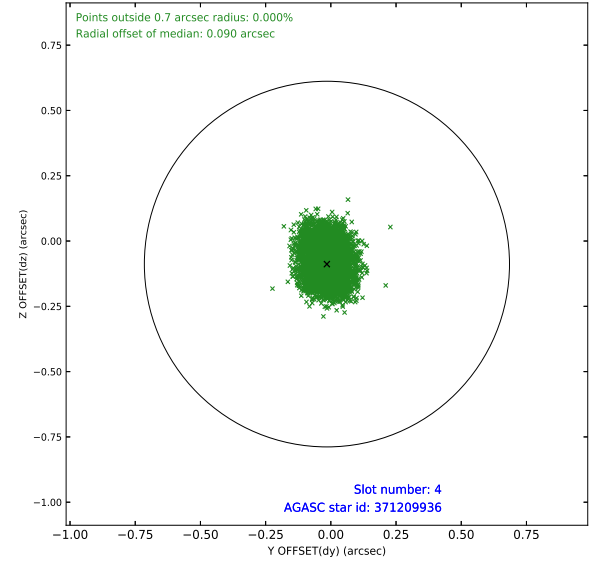
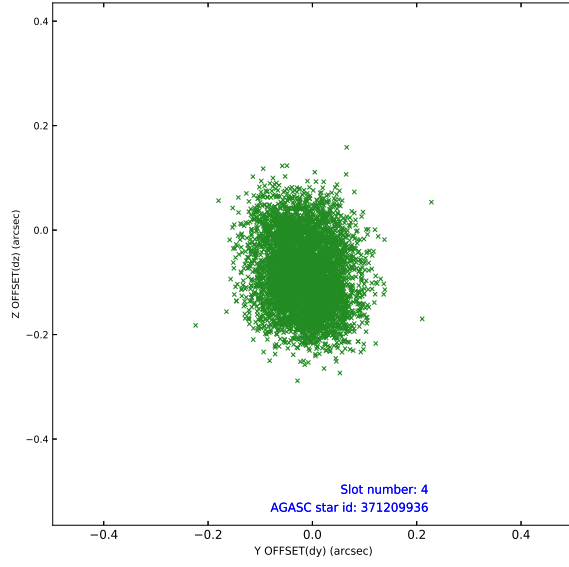
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2499	1.000	-0.101	-0.082	0.006	0.011	0.000000	0.000000	-760.57	-1731
1	FID		ACIS-S-4	7.20	2490	1.000	0.098	0.045	0.008	0.012	0.000000	0.000000	2152.62	176
2	FID		ACIS-S-6	7.34	2496	1.000	-0.025	0.045	0.009	0.015	0.000000	0.000000	402.08	814
3	GUIDE	used	371204680	8.31	5012	1.000	-0.007	-0.020	0.074	0.117	39.715200	39.150194	-709.87	-765
4	GUIDE	used	371209936	8.91	5016	1.000	-0.015	-0.088	0.092	0.143	39.300739	38.838291	-230.14	-2306
5	GUIDE	used	371732936	9.05	5010	1.000	-0.127	-0.095	0.076	0.120	39.809928	39.516777	-1771.56	61
6	GUIDE	used	371215520	8.21	5016	1.000	0.057	-0.047	0.070	0.113	39.565116	38.388424	1550.43	-2374
7	GUIDE	used	372903184	9.05	5013	1.000	0.096	0.248	0.099	0.155	40.811300	39.366216	-52.20	2317

2.4 Star Slots

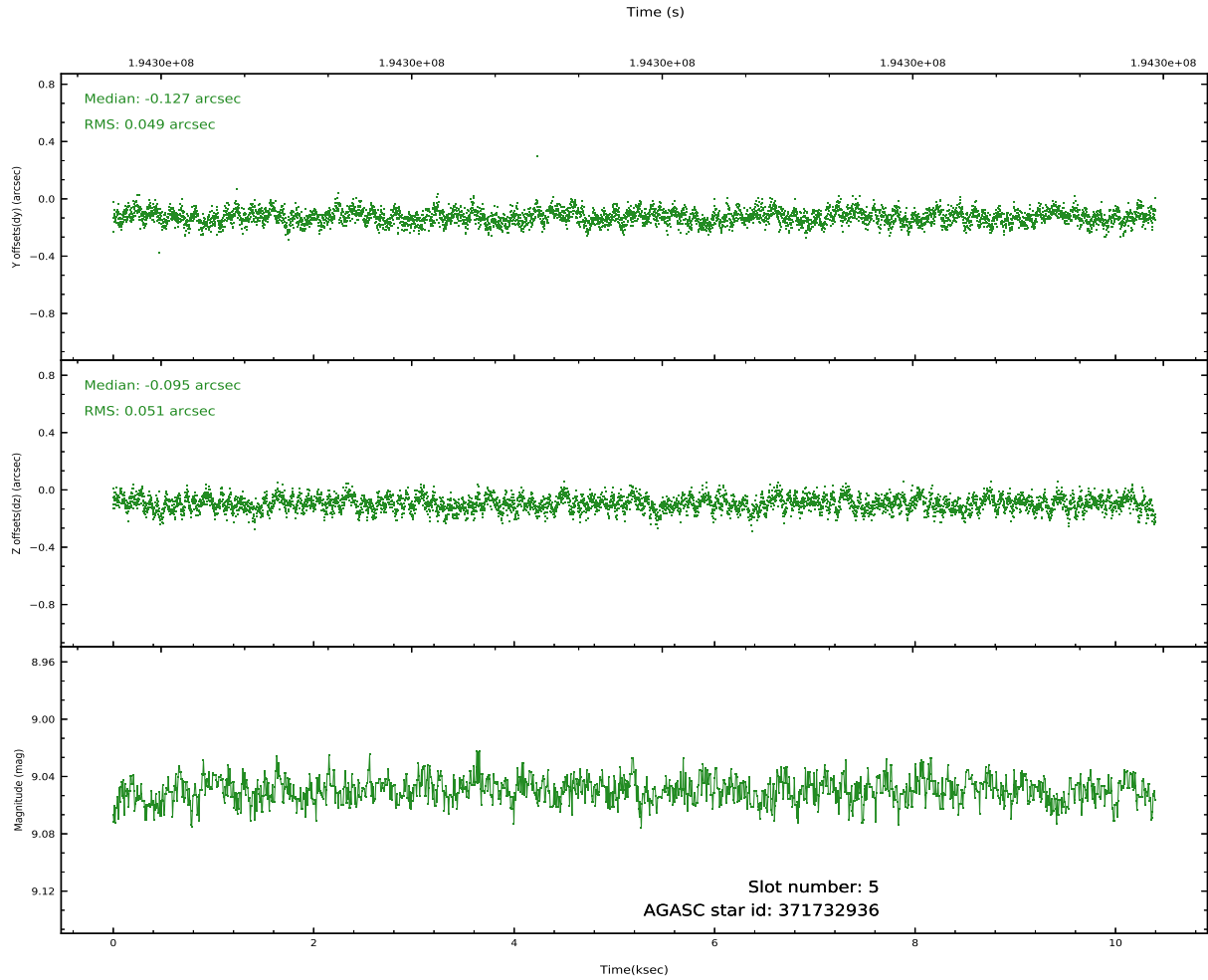
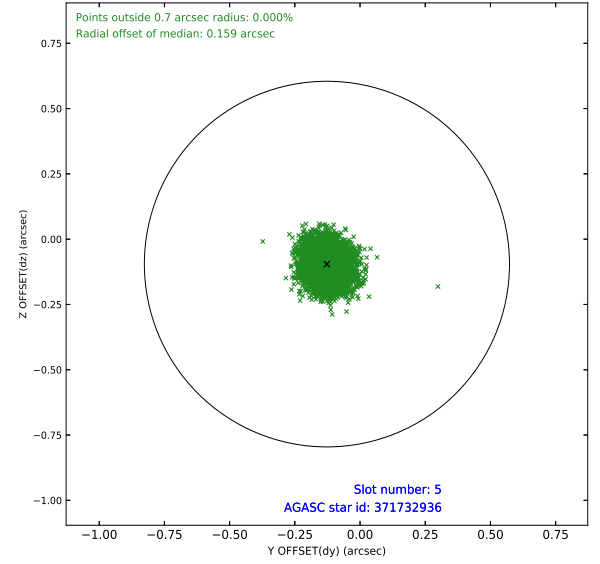
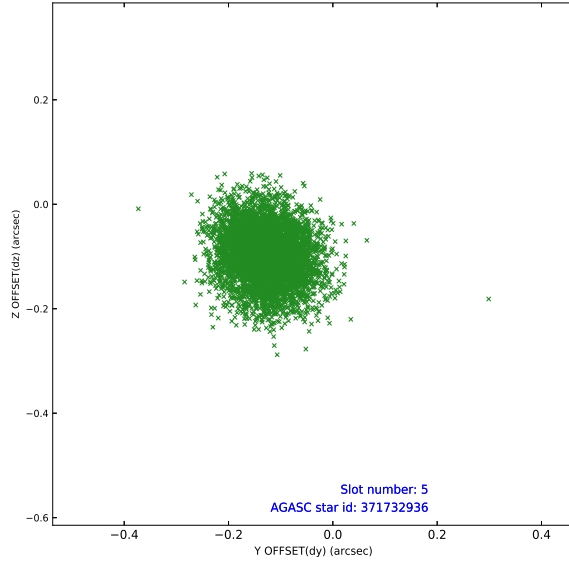
2.4.1 Slot 3



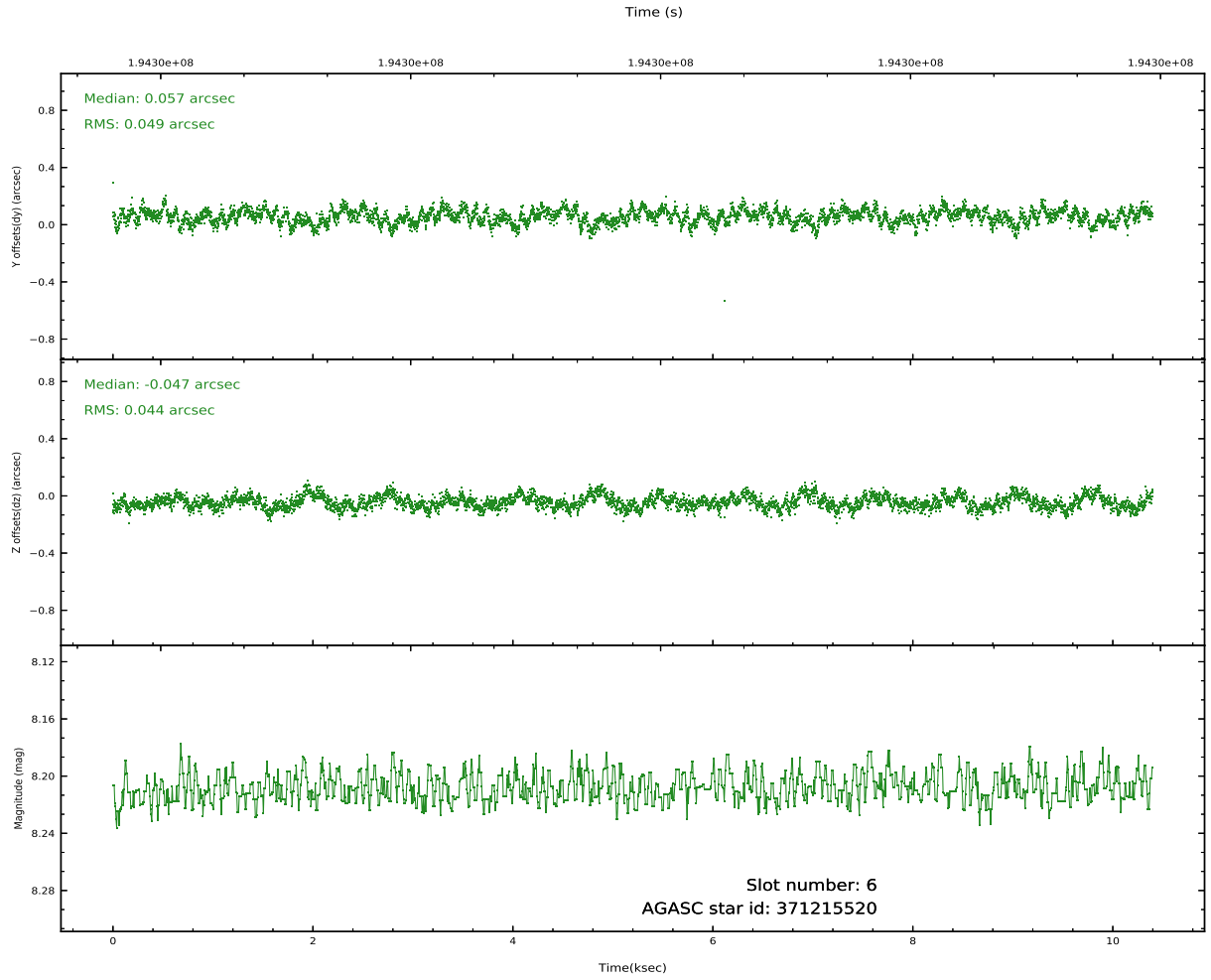
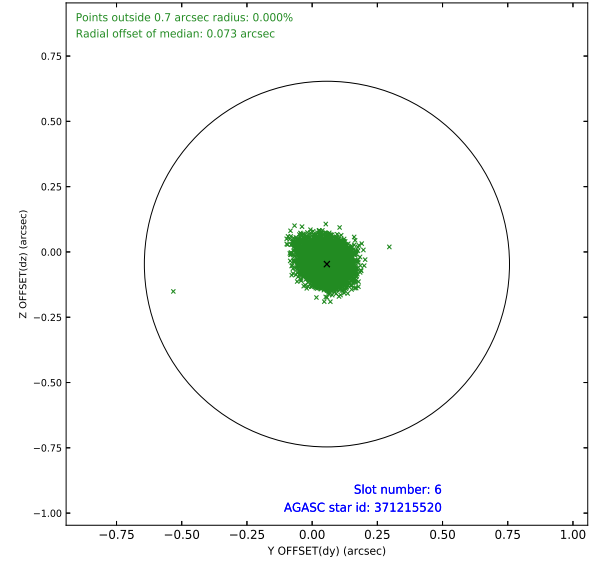
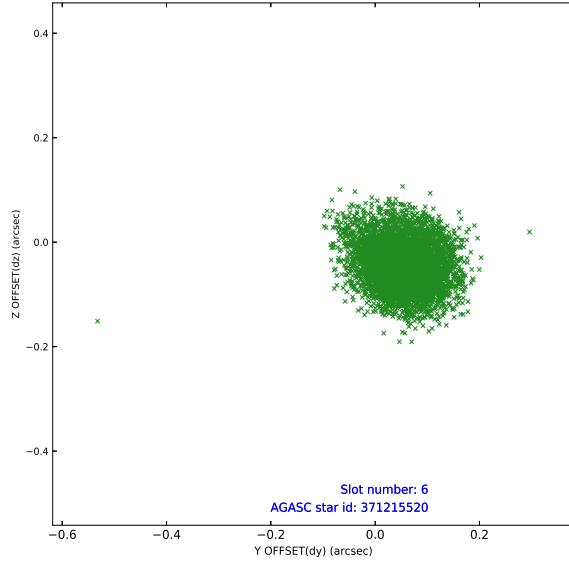
2.4.2 Slot 4



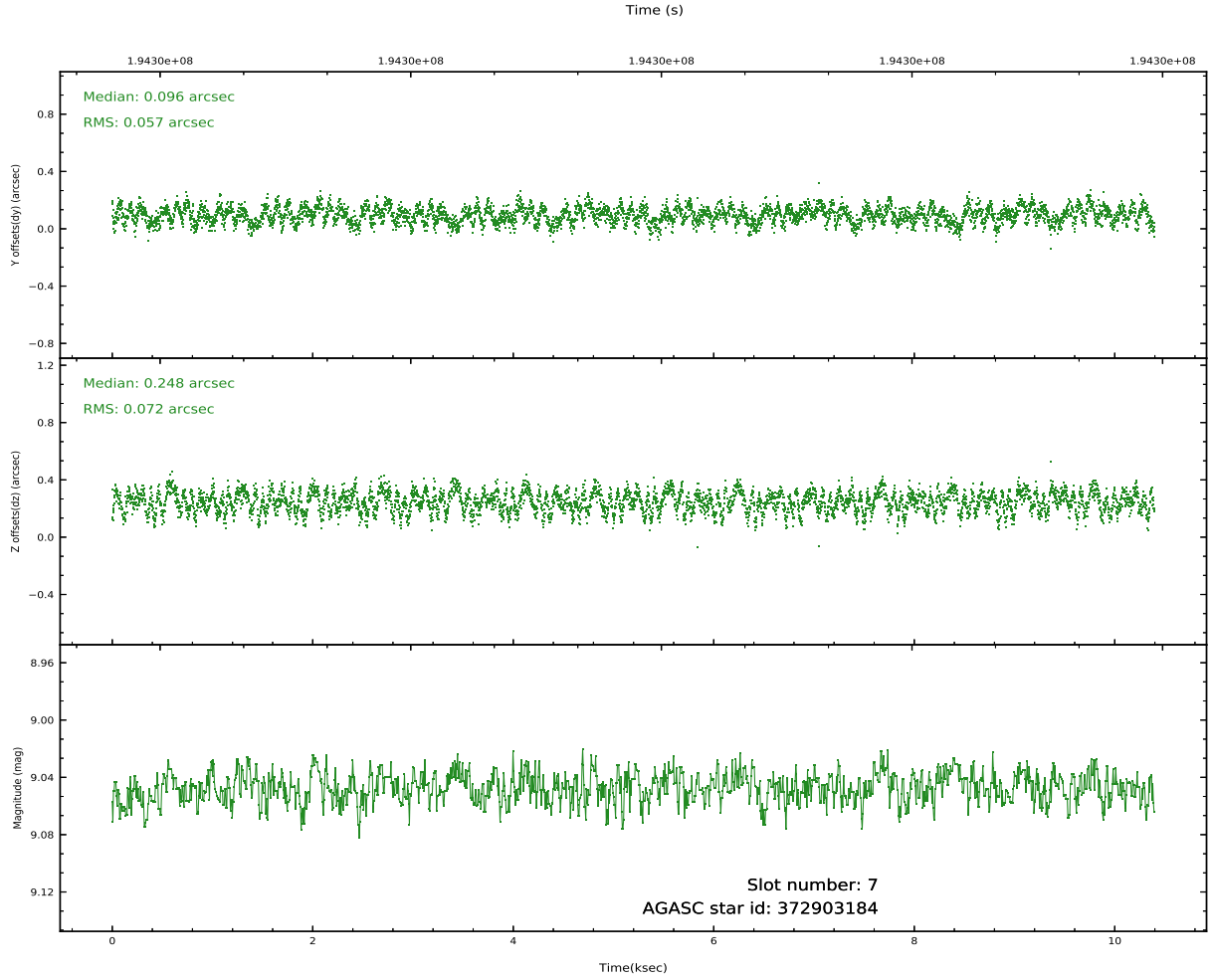
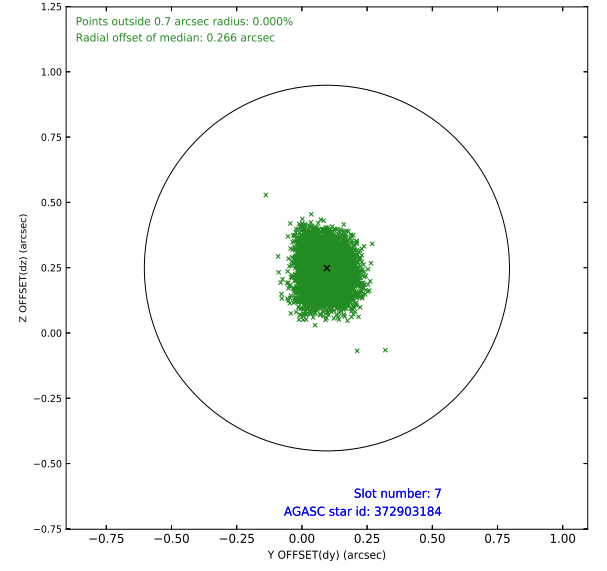
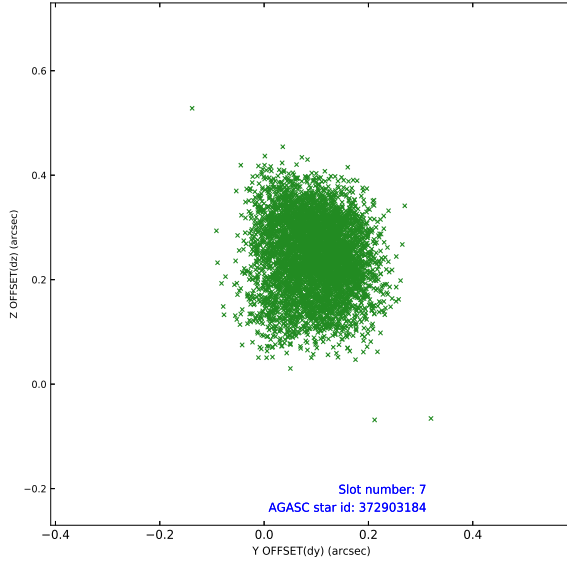
2.4.3 Slot 5



2.4.4 Slot 6

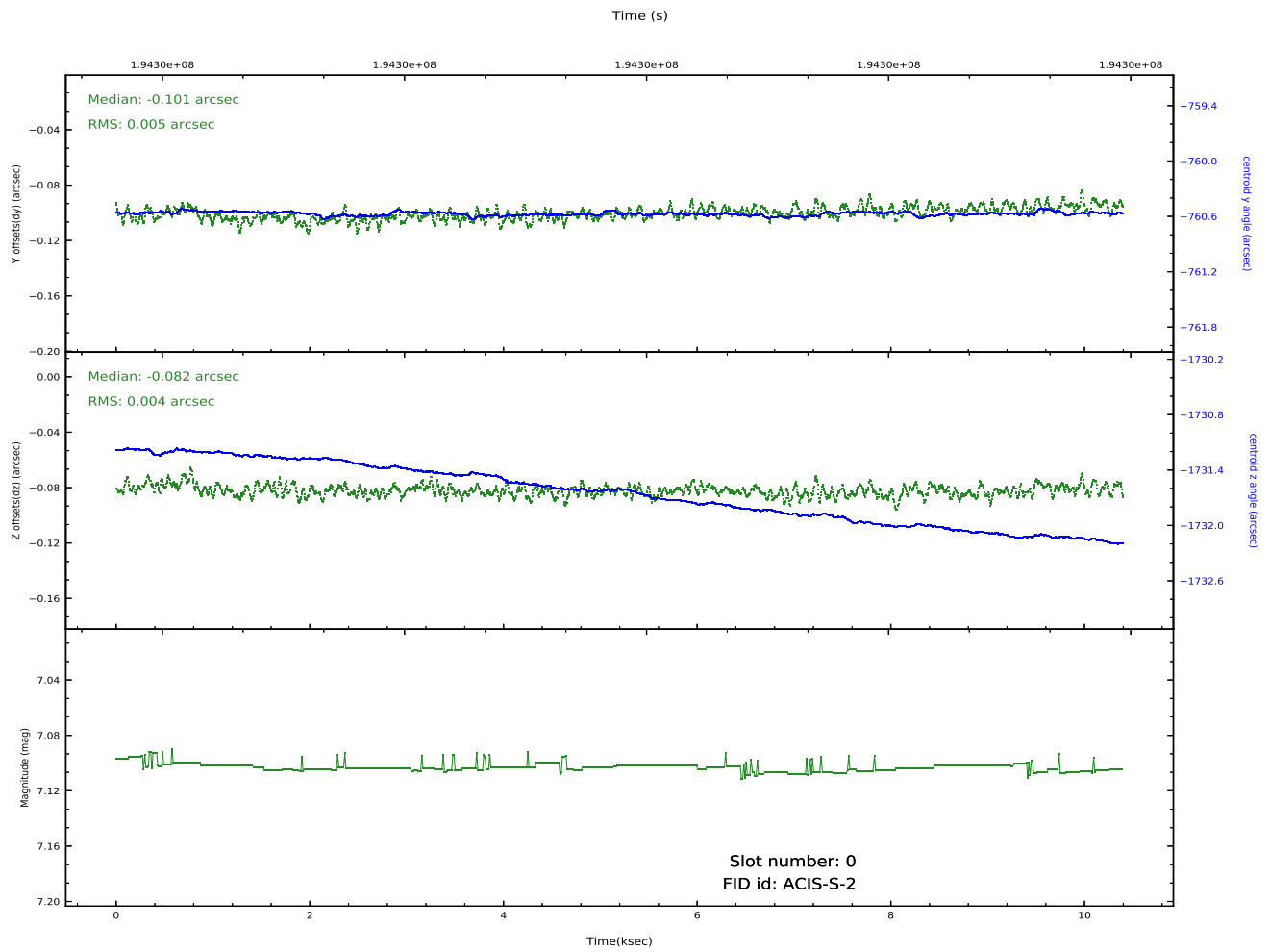
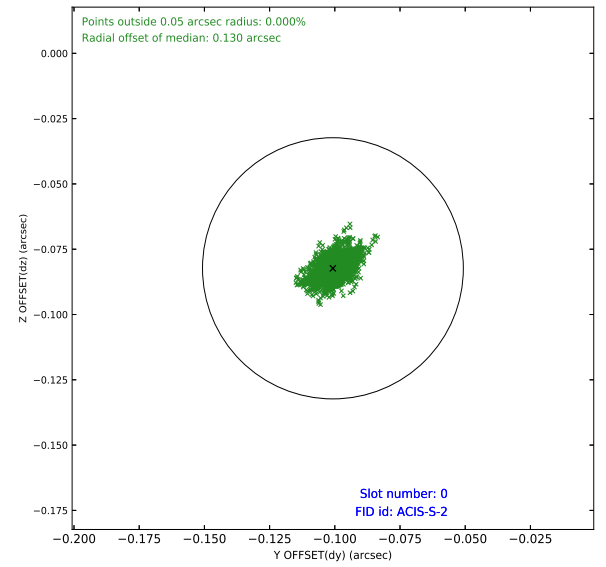
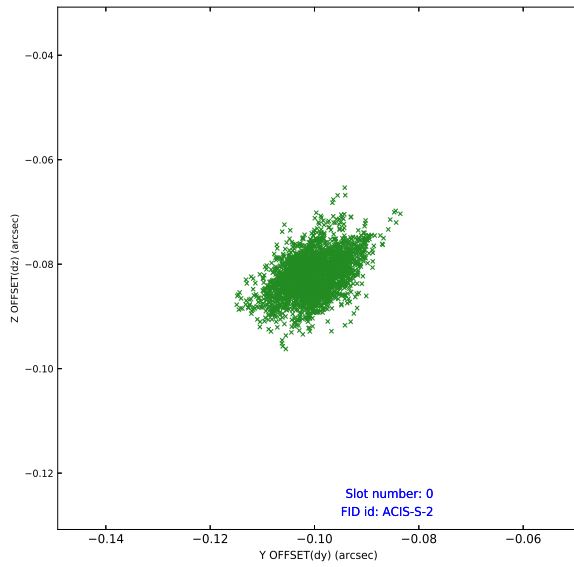


2.4.5 Slot 7

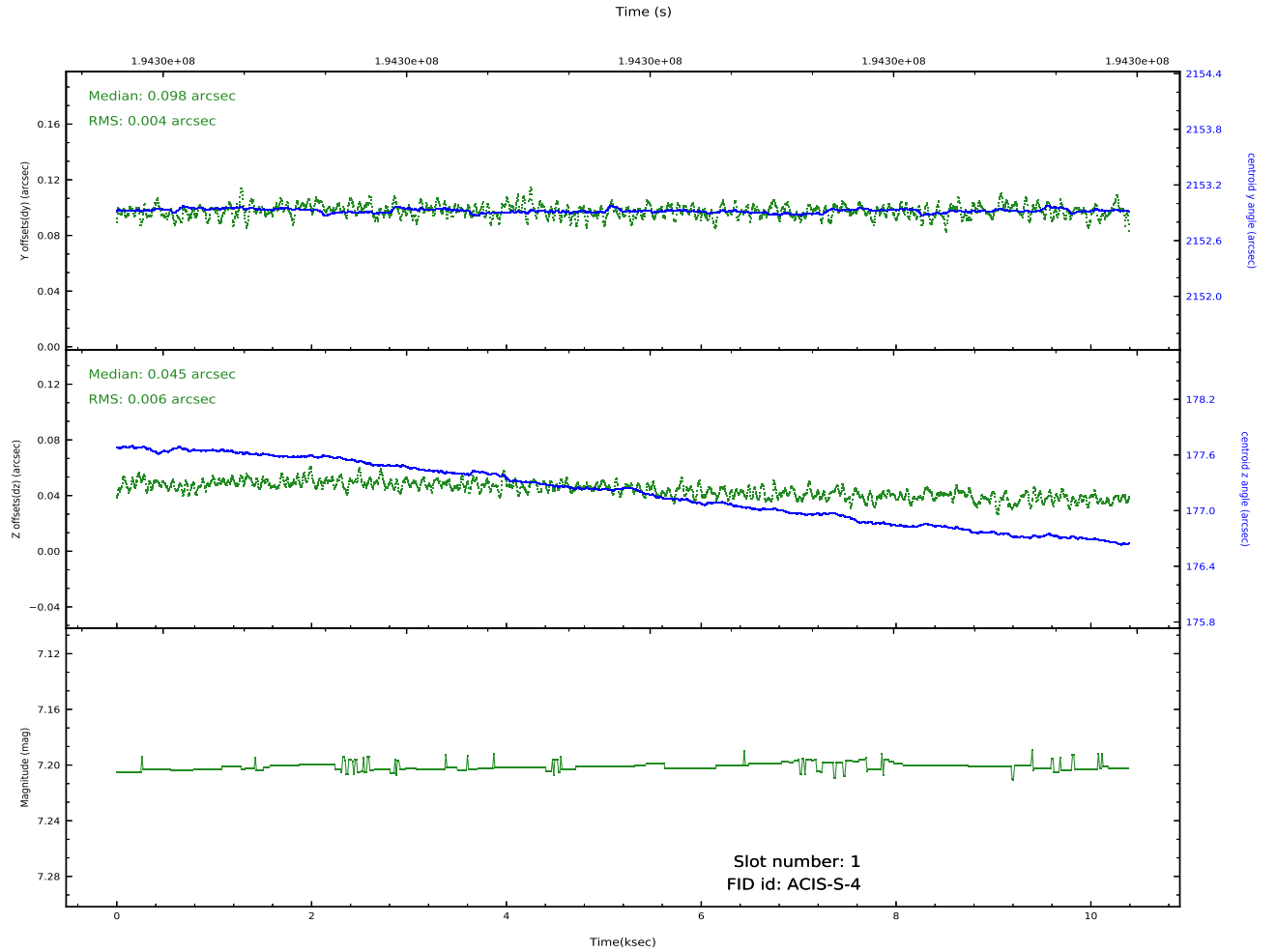
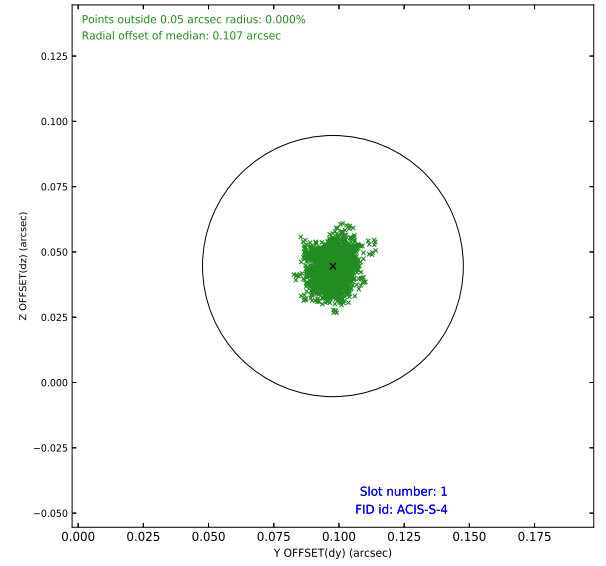
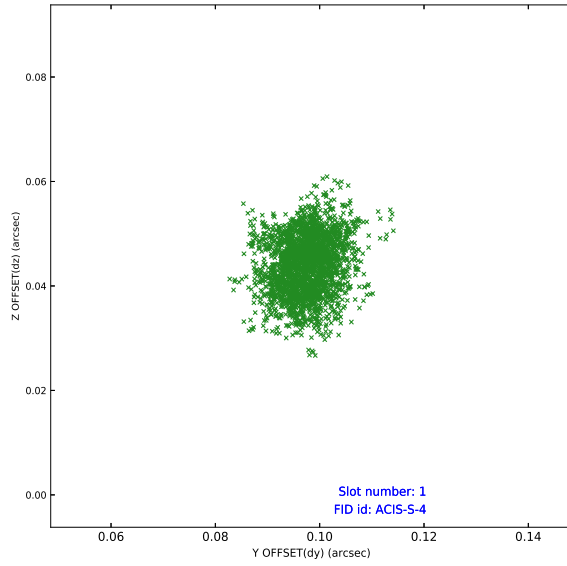


2.5 FID Slots

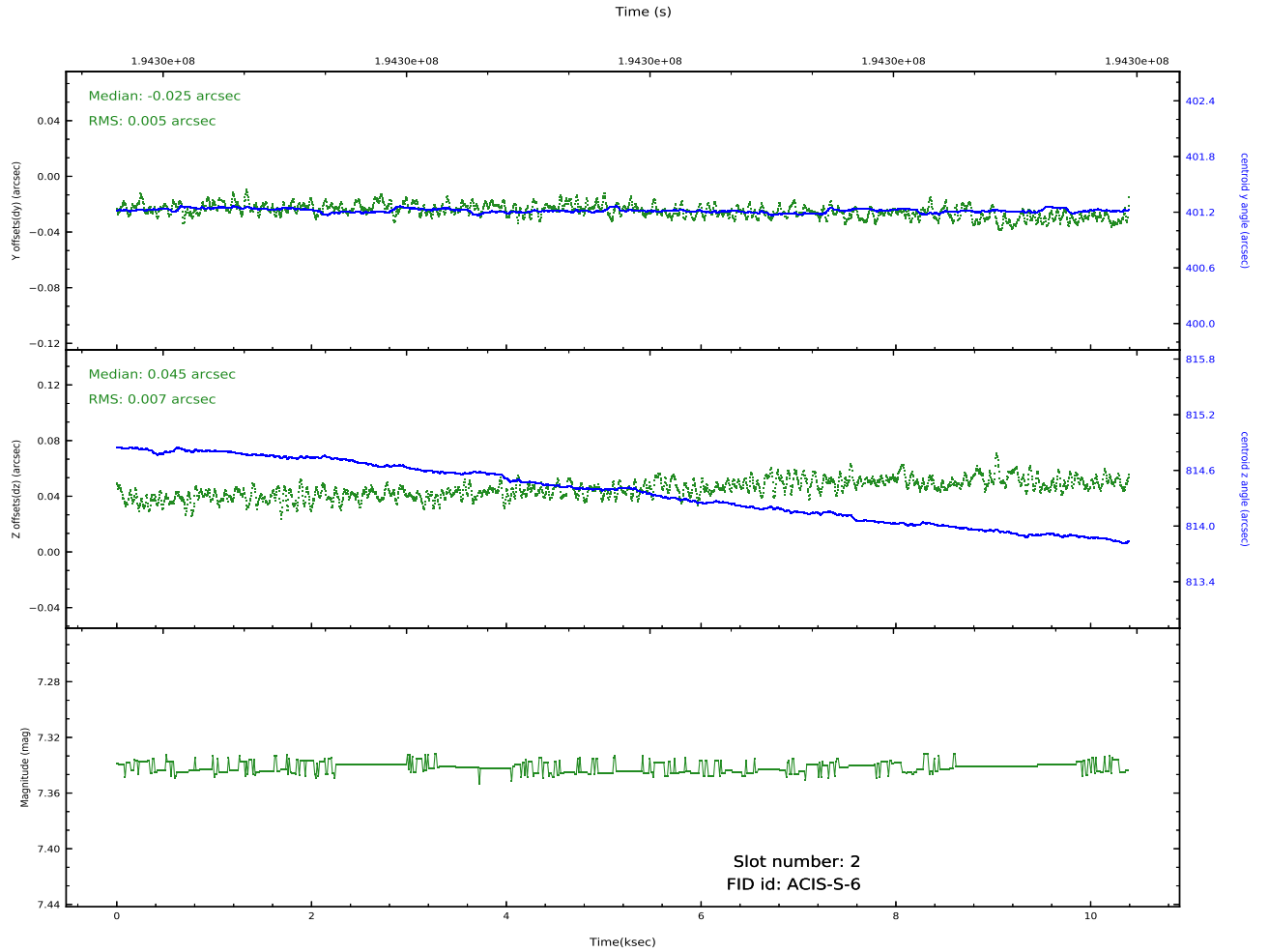
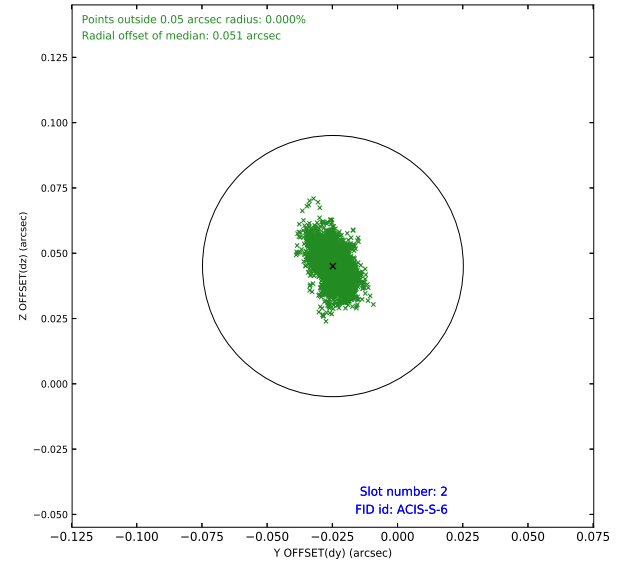
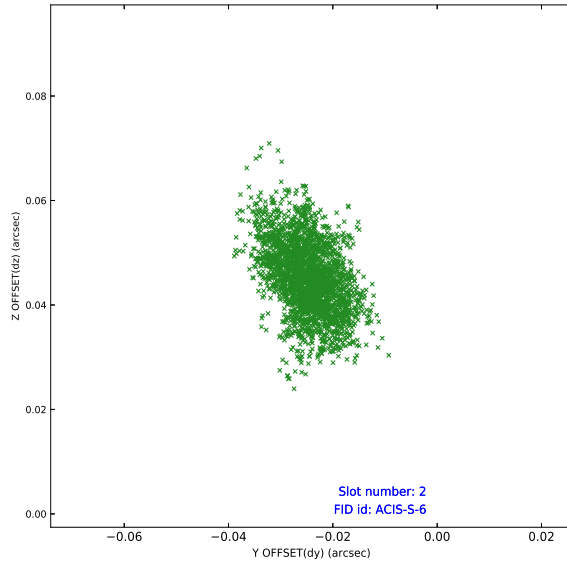
2.5.1 Slot 0



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	10.372

A.2 Comments

The bias map for CCD_ID = 8 was incomplete because of data gaps in telemetry. The bias map was reconstructed using scaled data from a comparable bias map for another observation to fill missing telemetry. The pixels affected by the anomaly are bounded by sky coords: (39.98649,39.13648), (39.90551,39.26120), (39.90252,39.26003), (39.98350,39.13531).