

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6081 - L2 Version 4
Chandra X-Ray Center

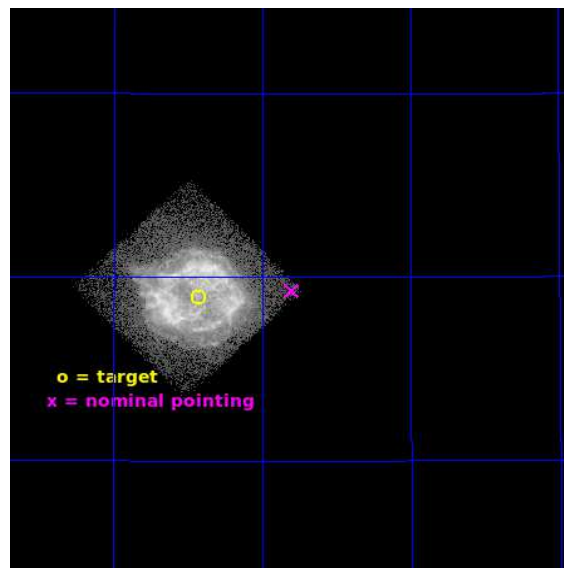
L2 Processing Date : Oct 11 2020

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1 Front

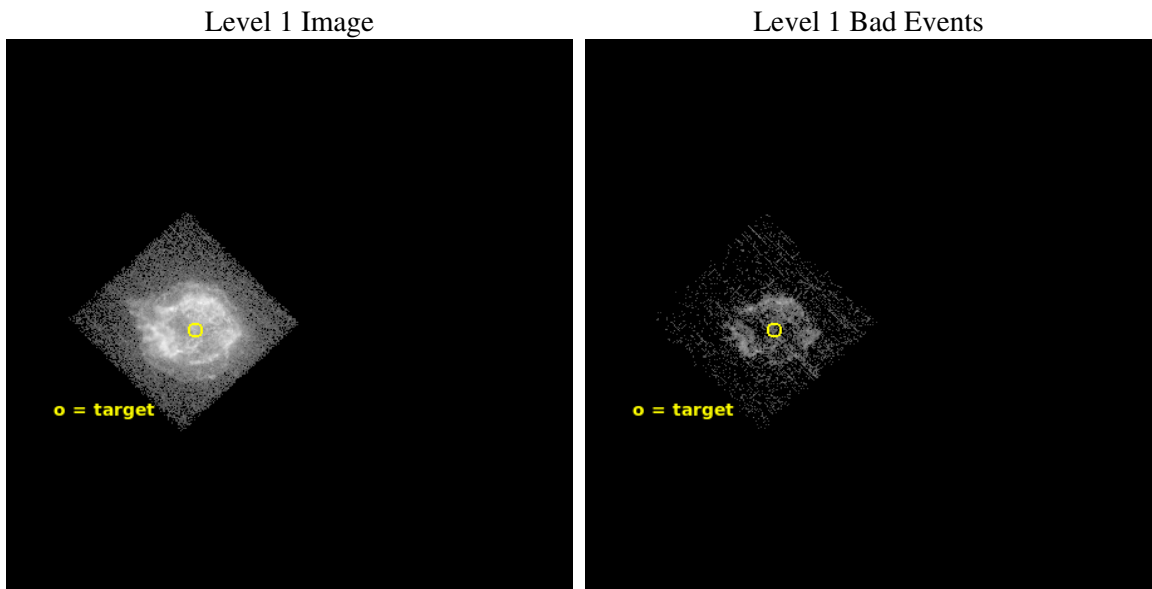
seq_num	590408	Sequence number
obs_id	6081	Observation id
title	AO6B Observations of the Standard Candles Cas A and G21.5-09	Propo
observer	CXC Calibration	Principal investigator
object	Cas A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.8575	Observer's specified target RA [deg]
dec_targ	58.814833	Observer's specified target Dec [deg]
ra_nom	350.70009940362	Nominal RA [deg]
dec_nom	58.821148926273	Nominal Dec [deg]
roll_nom	226.30406592357	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1748.2568659484	Sum of GTIs [s]
livetime	1726.1193848379	Livetime [s]
ontime0	2140.7999920249	Sum of GTIs [s]
ontime1	2137.5590017438	Sum of GTIs [s]
ontime2	2140.7999920249	Sum of GTIs [s]
ontime3	1748.2568659484	Sum of GTIs [s]
ontime6	2140.7999920249	Sum of GTIs [s]
ontime7	2140.7999920249	Sum of GTIs [s]
l2events	361236	Number of level 2 events



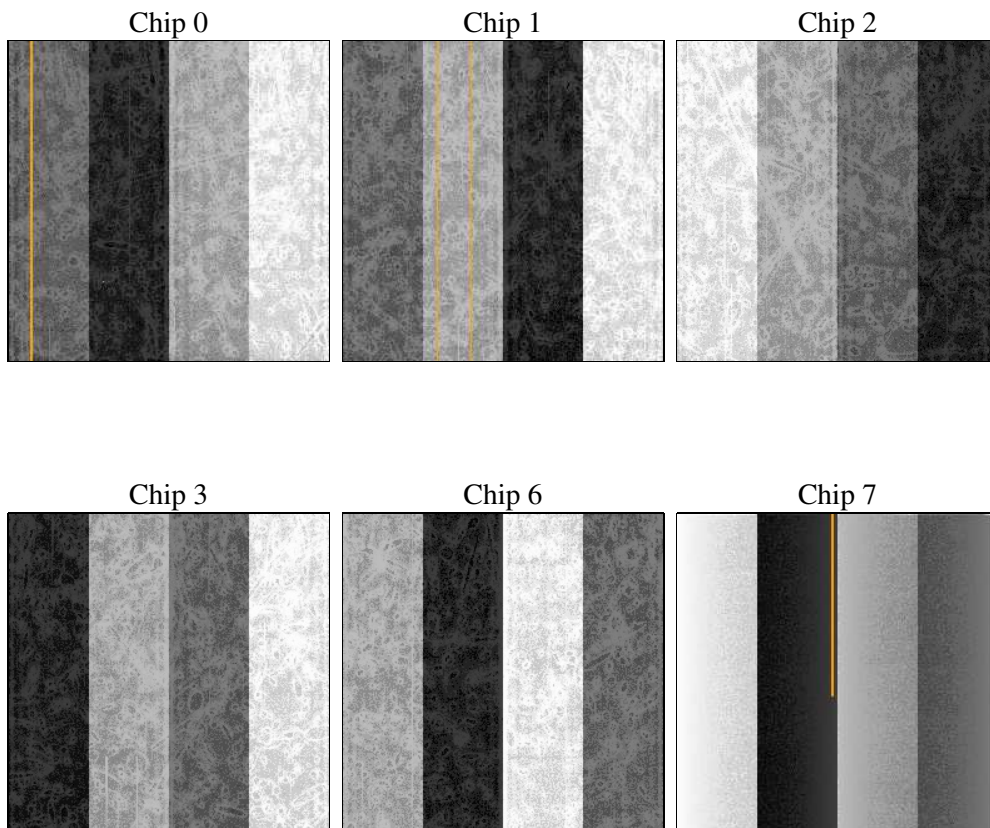
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	1748.2568659484	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	2140.7999920249	Sum of GTIs [s]
date	2020-10-11T03:36:11	Date and time of file creation	ontime1	2137.5590017438	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	2140.7999920249	Sum of GTIs [s]
			ontime3	1748.2568659484	Sum of GTIs [s]
			ontime6	2140.7999920249	Sum of GTIs [s]
			ontime7	2140.7999920249	Sum of GTIs [s]
			l1events	440671	Number of level 1 events

2.1.4 Events

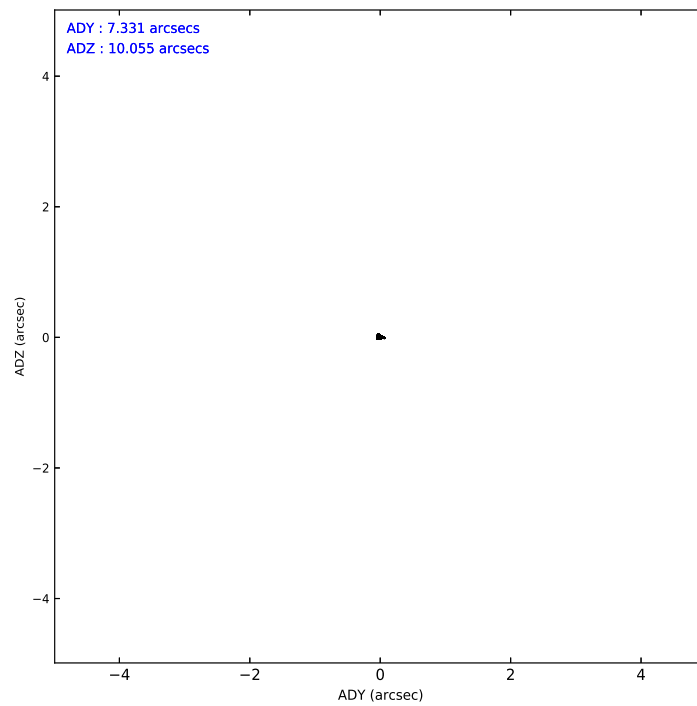
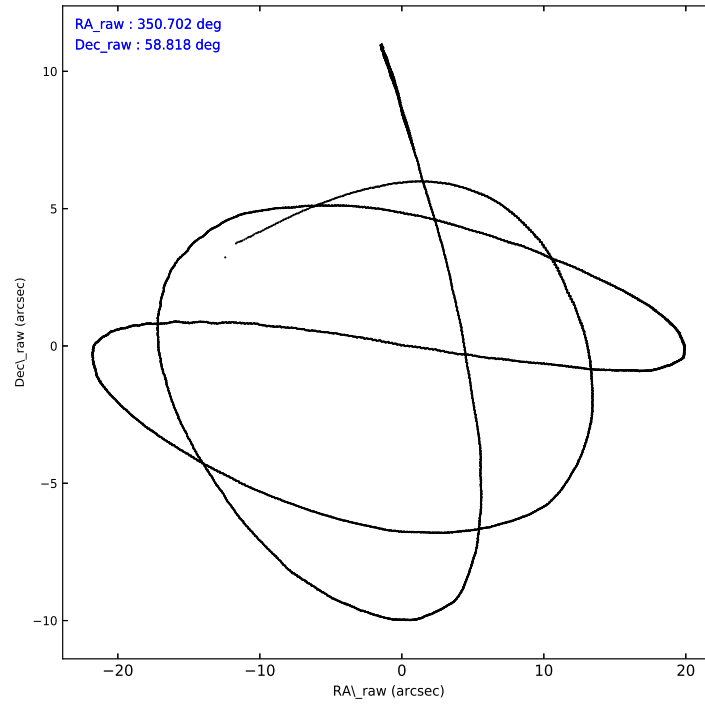
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	0	0	0	440671	0	0
rejected events	0	0	0	68821	0	0
rejected %	0%	0%	0%	15%	0%	0%

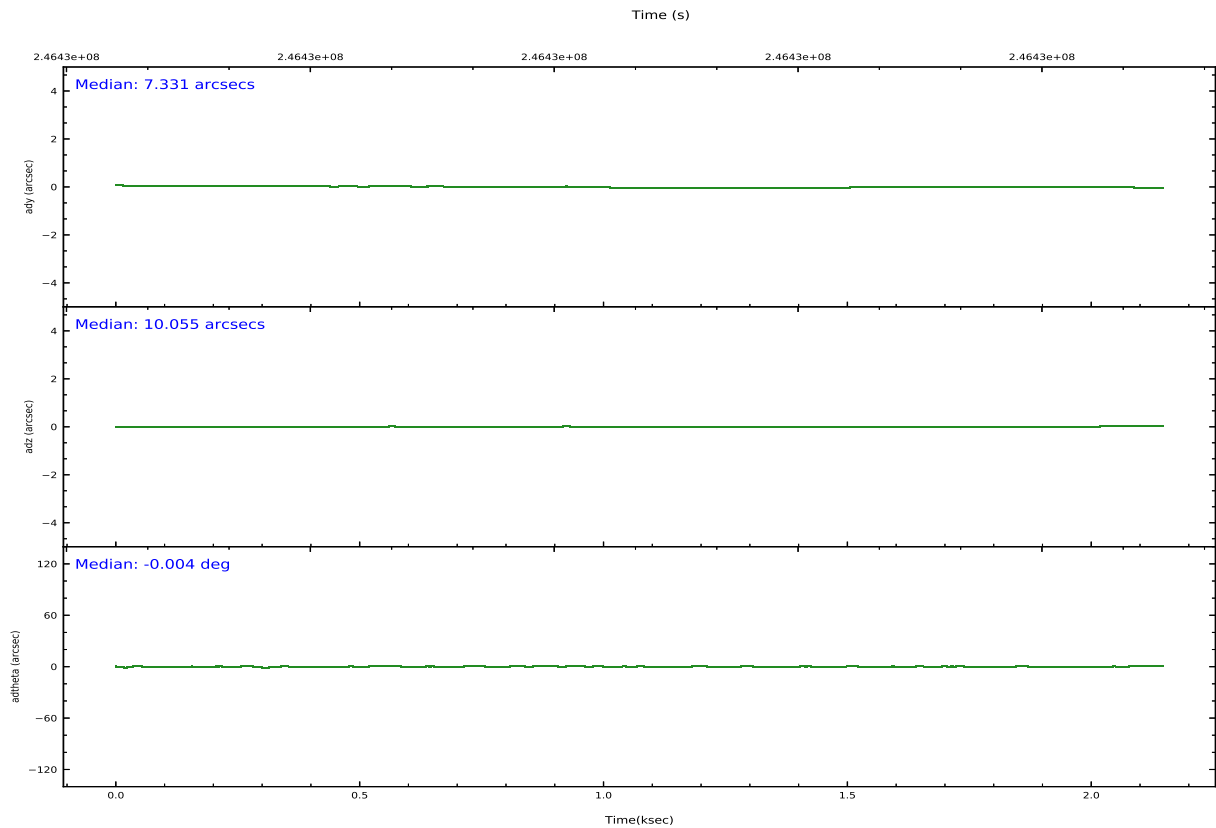
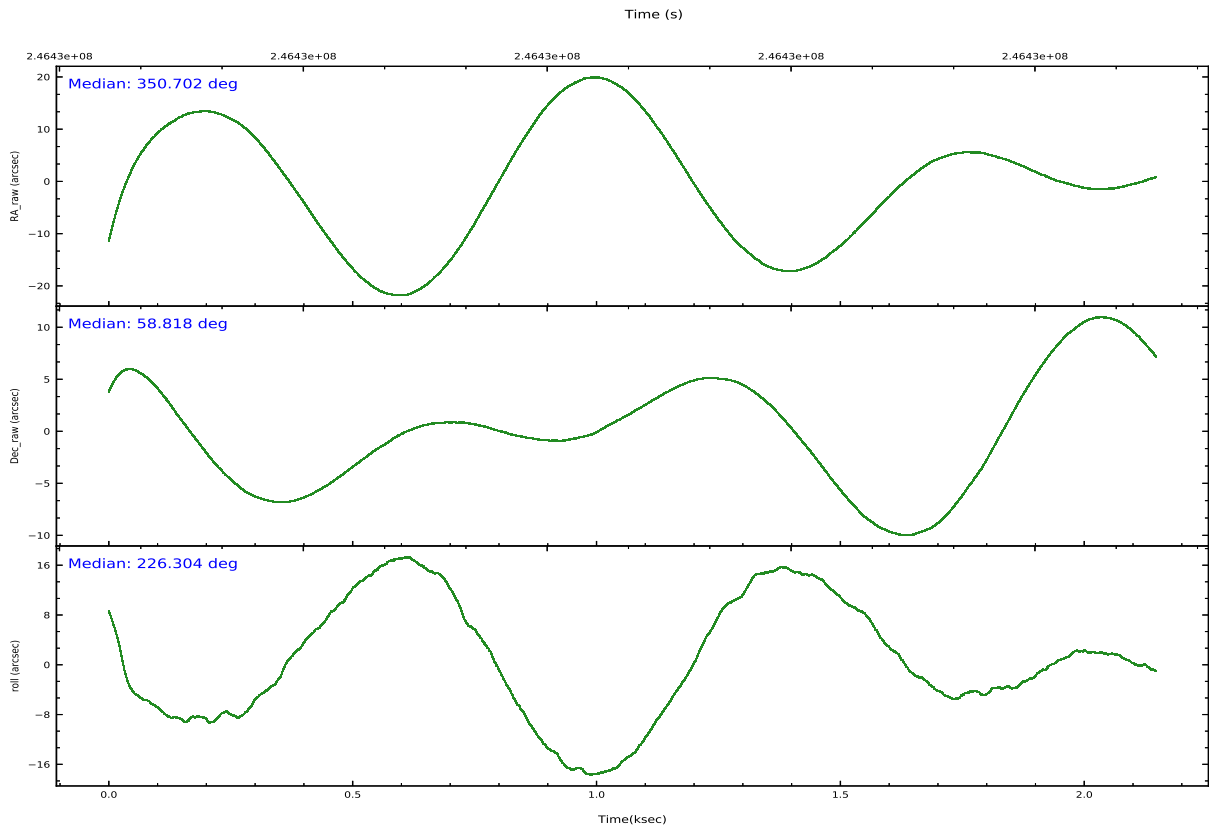
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	0	0	0	333988	0	0
	0%	0%	0%	75%	0%	0%
grade 1 events	0	0	0	5293	0	0
	0%	0%	0%	1%	0%	0%
grade 2 events	0	0	0	41664	0	0
	0%	0%	0%	9%	0%	0%
grade 3 events	0	0	0	13618	0	0
	0%	0%	0%	3%	0%	0%
grade 4 events	0	0	0	13407	0	0
	0%	0%	0%	3%	0%	0%
grade 5 events	0	0	0	3393	0	0
	0%	0%	0%	0%	0%	0%
grade 6 events	0	0	0	8370	0	0
	0%	0%	0%	1%	0%	0%
grade 7 events	0	0	0	20938	0	0
	0%	0%	0%	4%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	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	350.713470	350.70009940362	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.844142	58.821148926273	Alternating exposures requested	N	N
[deg] Pointing Roll	226.080395	226.30406592357	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	241920064.184000	241920064.184000			
[s] Window stop time (MET)	249696064.184000	249696064.184000			
[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)	246430249.184000	246428839.98725			
Observation start date	2005-10-23T04:49:45	2005-10-23T04:27:19			
[s] Observation end time (MET)	246432249.184000	246432399.29992			
Observation end date	2005-10-23T05:23:05	2005-10-23T05:26:39			
Read mode	TIMED	TIMED			

2.3 Aspect





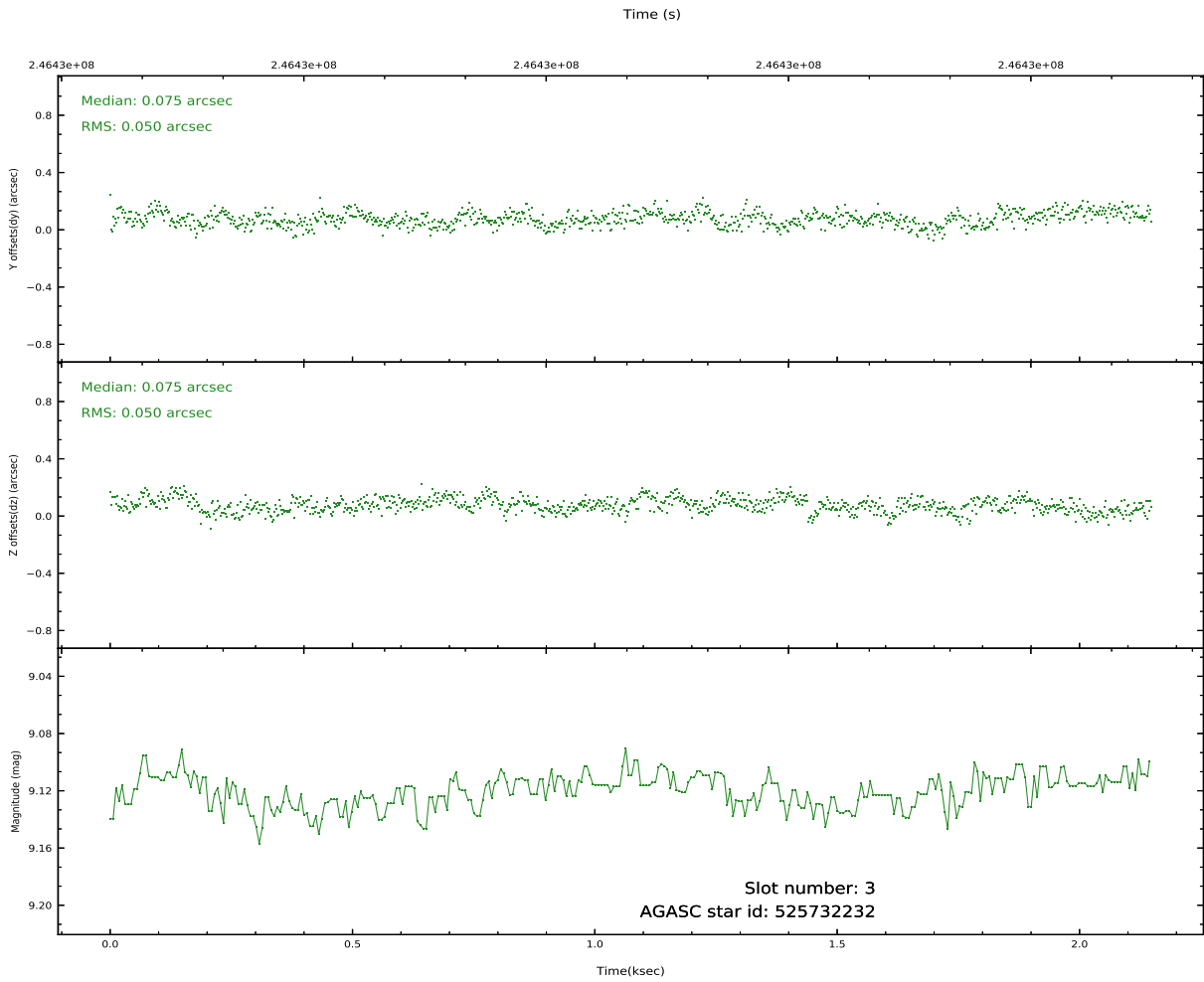
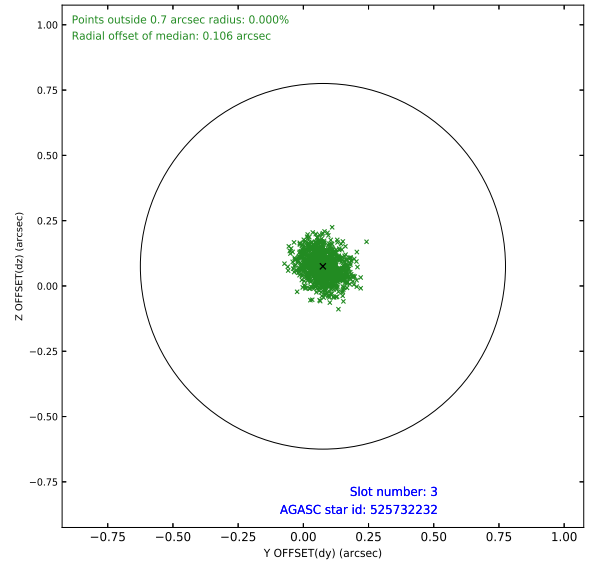
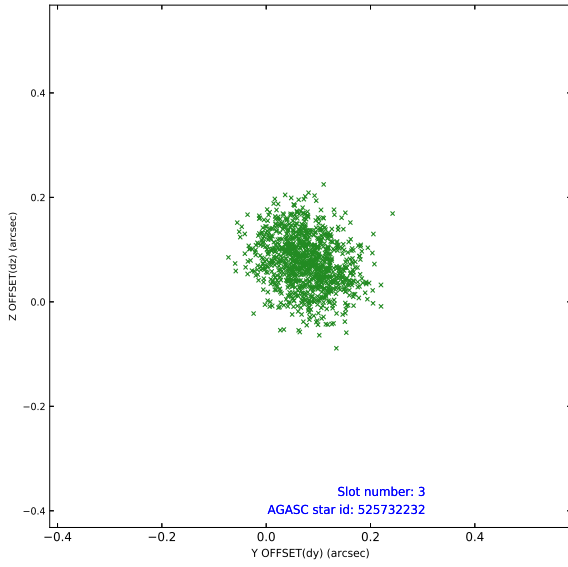
Slot Statistics

slot	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	524	1.000	0.051	-0.050	0.006	0.011	0.000000	0.000000	932.43	-833
1	FID		ACIS-I-5	7.23	524	1.000	-0.110	0.077	0.007	0.012	0.000000	0.000000	-1814.22	1062
2	FID		ACIS-I-6	7.25	524	1.000	-0.032	0.044	0.007	0.010	0.000000	0.000000	394.50	1710
3	GUIDE	used	525732232	9.12	1049	1.000	0.075	0.075	0.077	0.122	351.669550	58.757012	-1020.84	1495
4	GUIDE	used	525735456	6.79	1049	1.000	-0.067	0.037	0.048	0.079	350.628183	59.307249	-1092.65	-1267
5	GUIDE	used	525735976	8.86	1049	1.000	0.015	0.037	0.063	0.103	350.142956	58.277622	2214.50	632
6	GUIDE	used	525609504	9.08	1044	1.000	-0.072	-0.023	0.069	0.112	349.896632	58.356658	2330.21	100
7	GUIDE	used	525732528	9.35	1048	1.000	0.048	-0.123	0.097	0.161	351.607241	59.298932	-2323.66	40

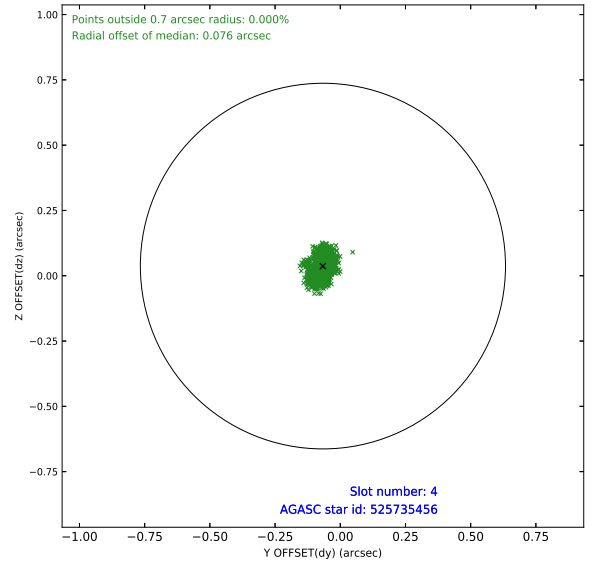
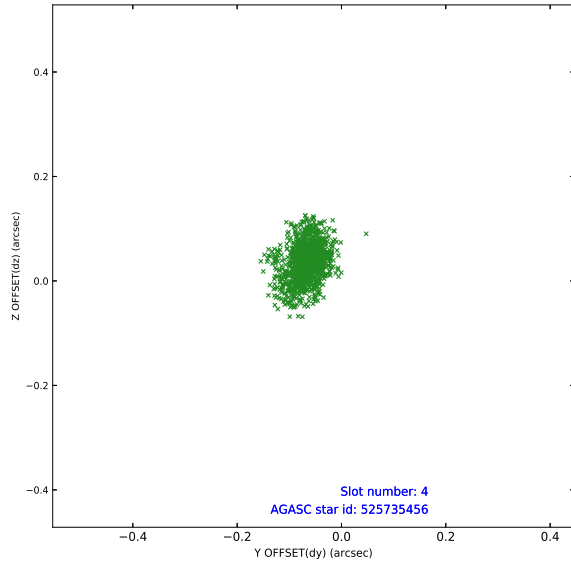
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2.4 Star Slots

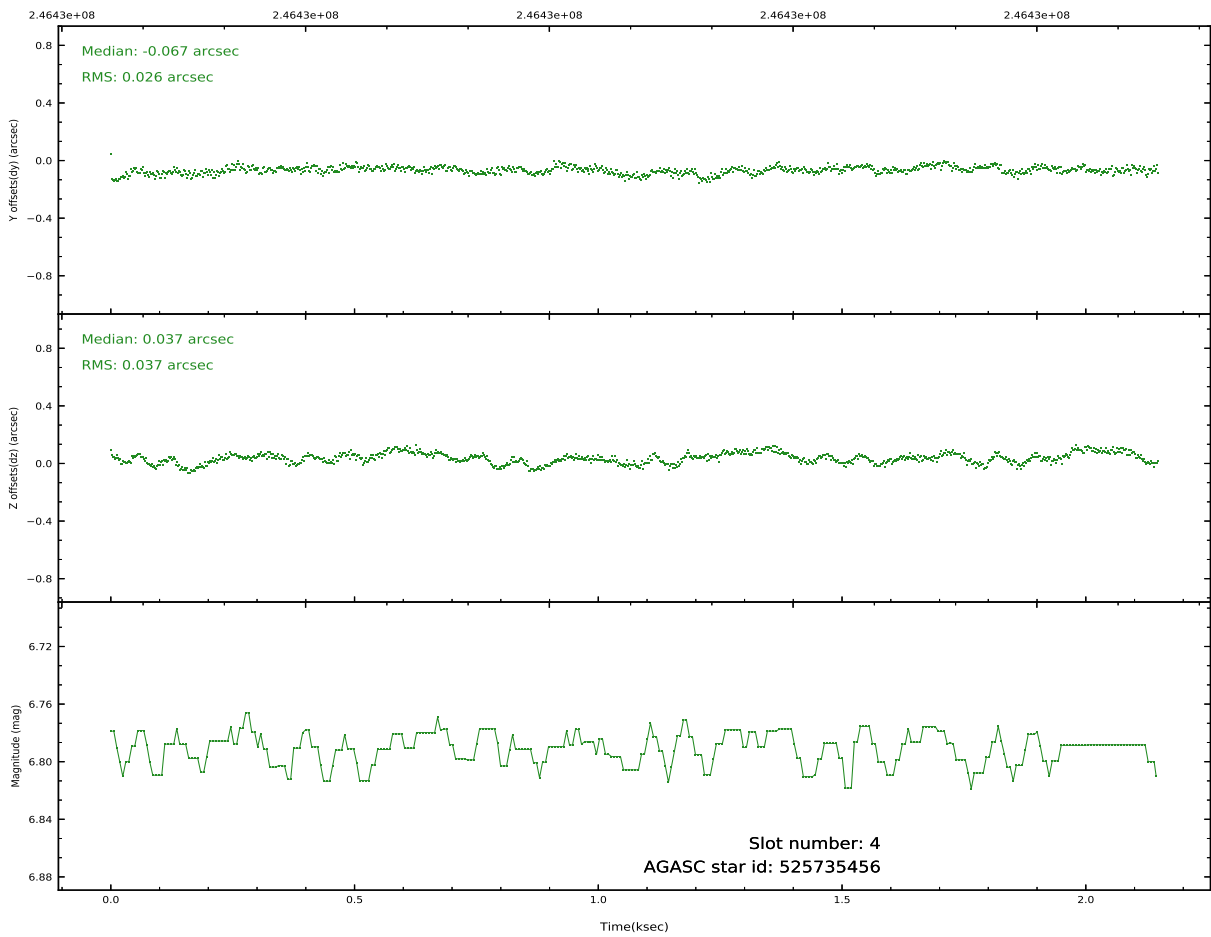
2.4.1 Slot 3



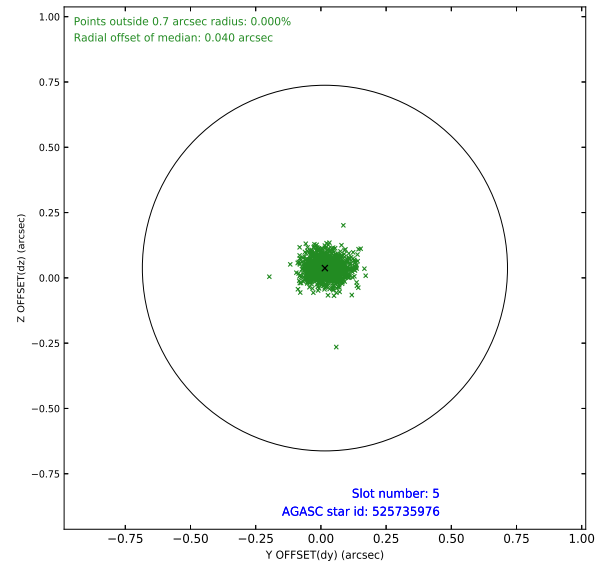
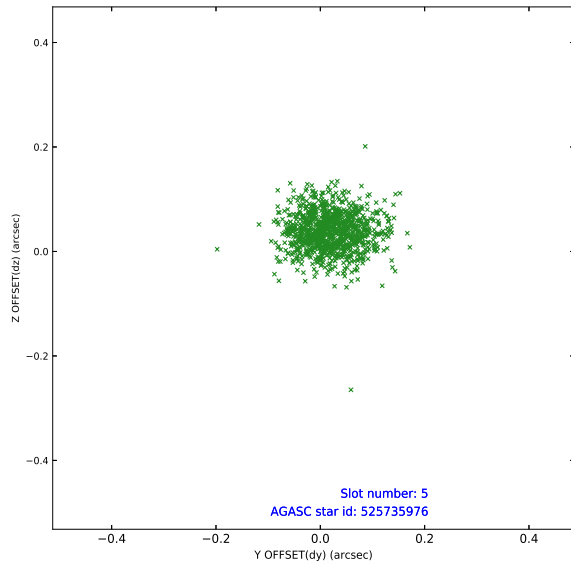
2.4.2 Slot 4



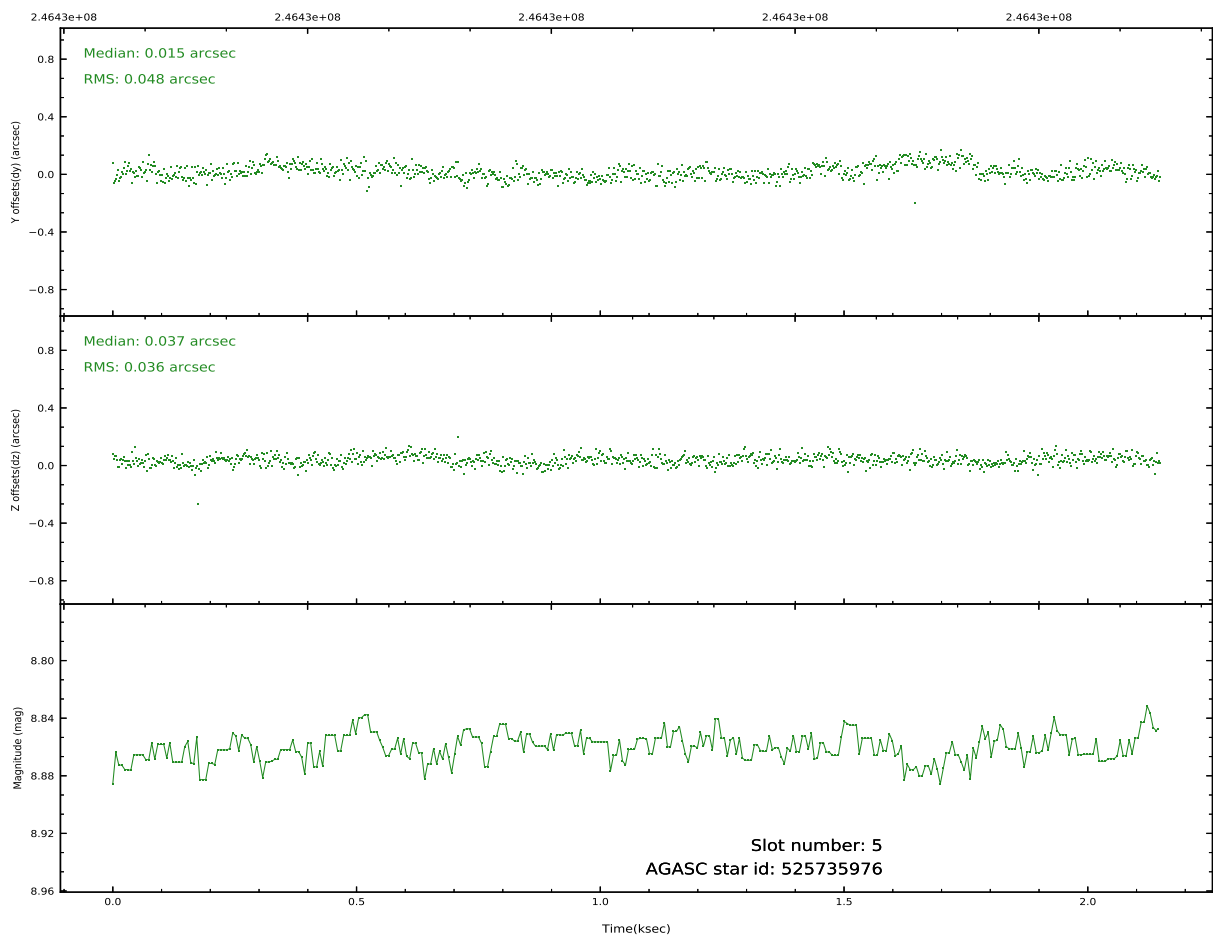
Time (s)



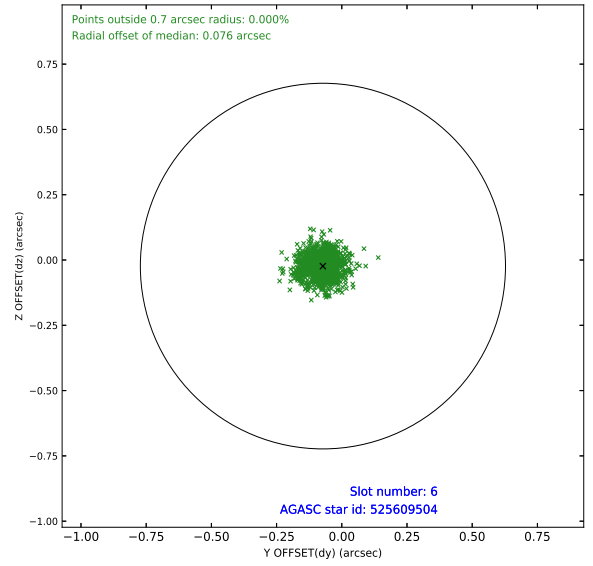
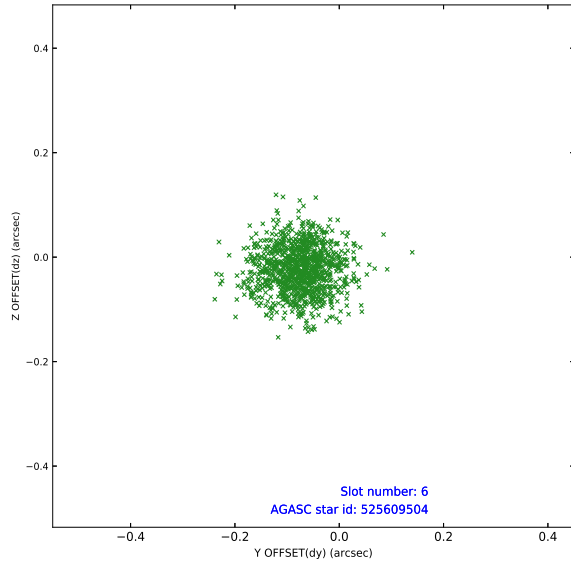
2.4.3 Slot 5



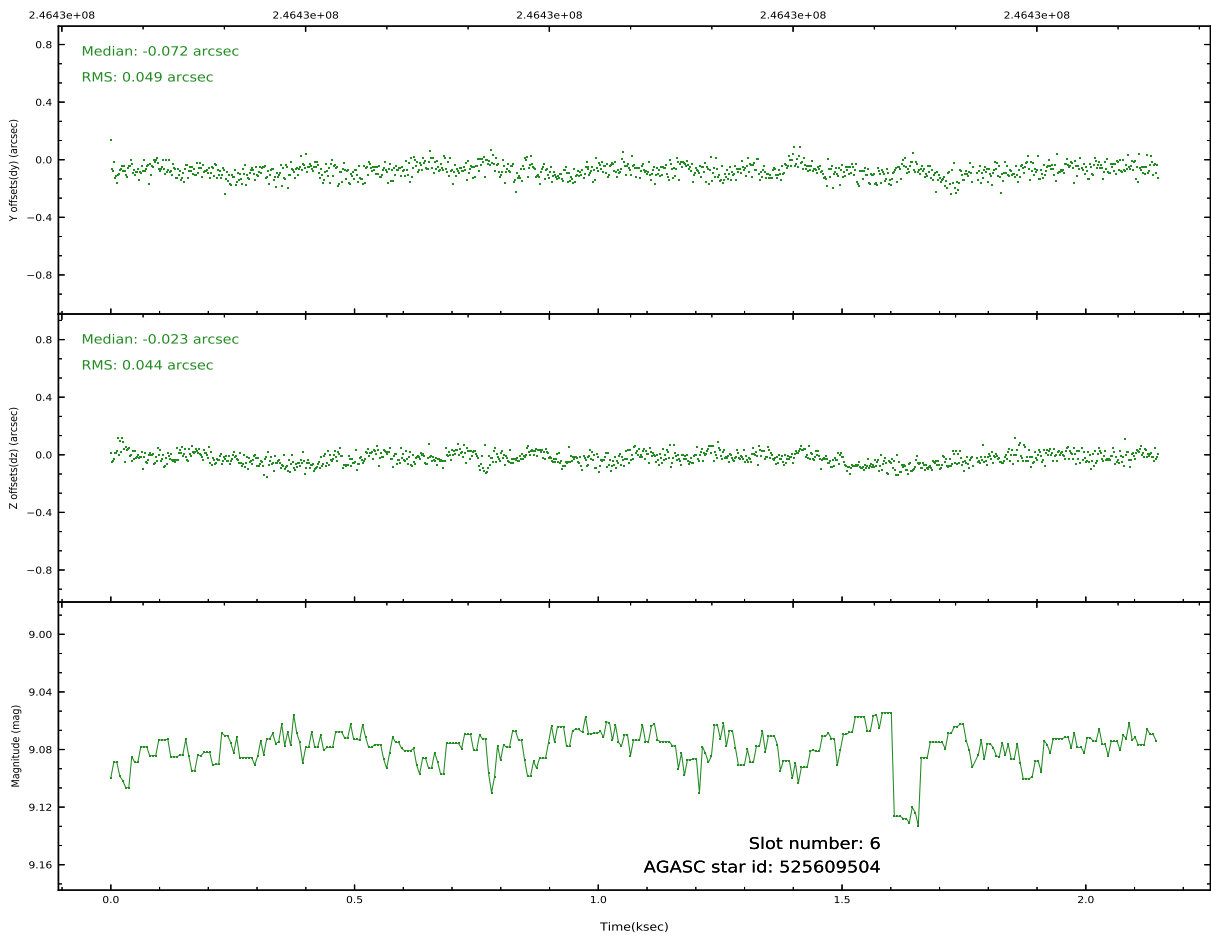
Time (s)



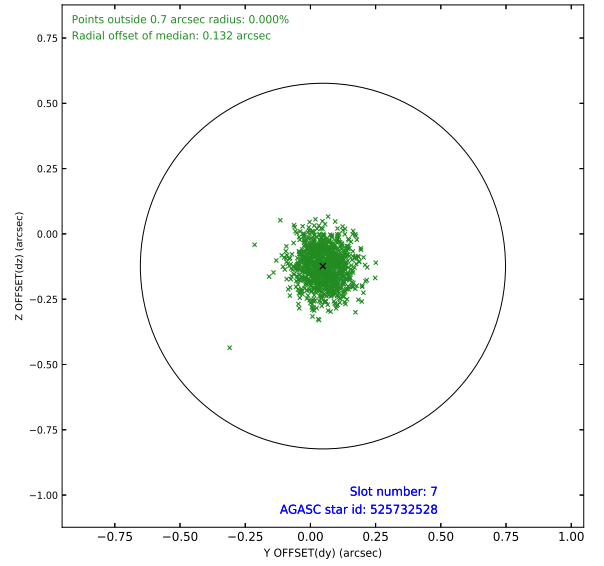
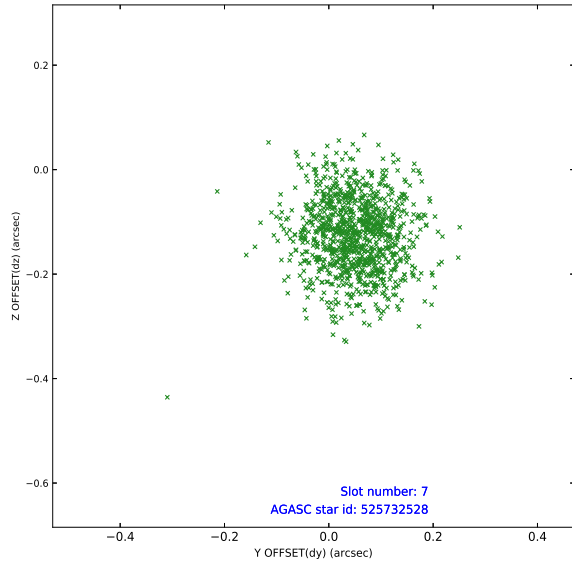
2.4.4 Slot 6



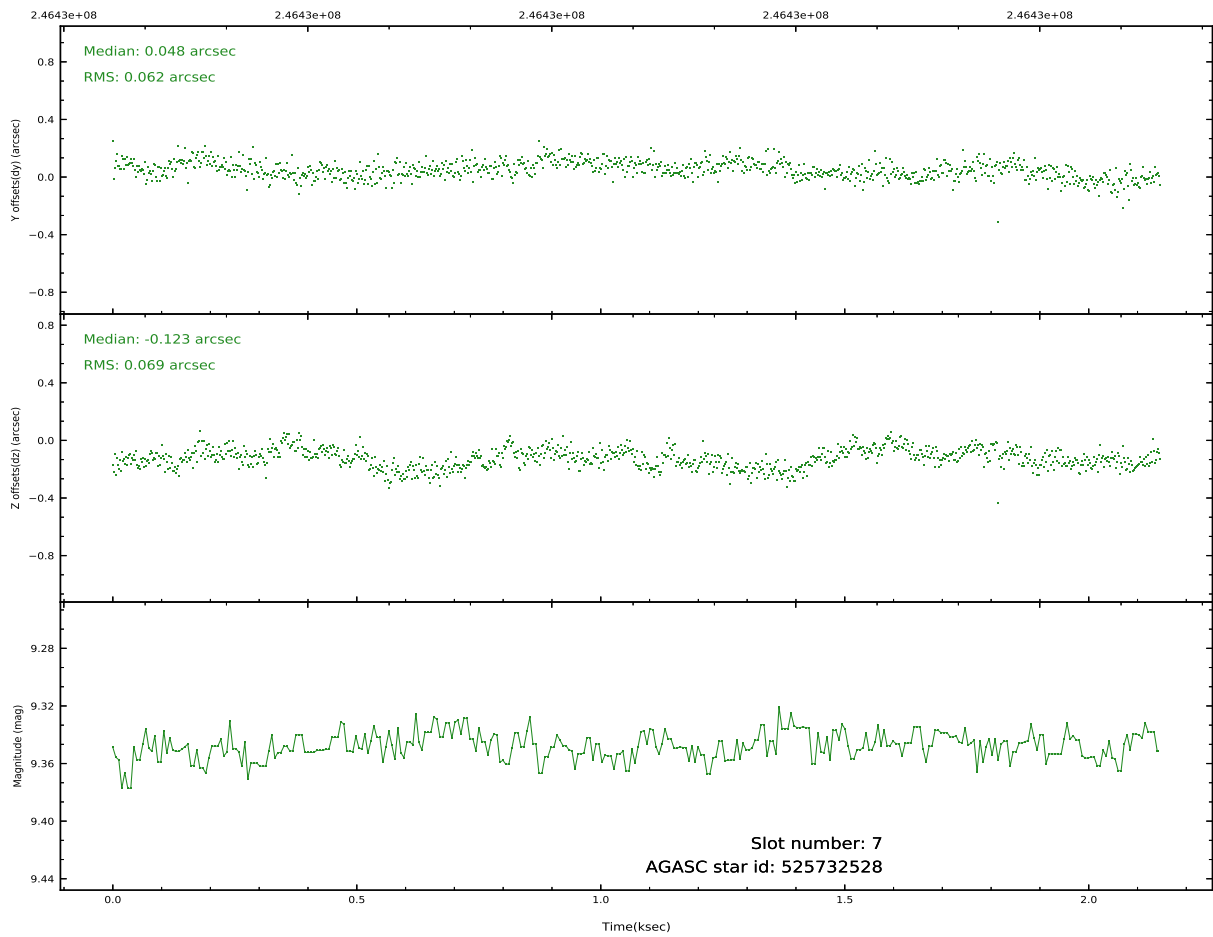
Time (s)



2.4.5 Slot 7

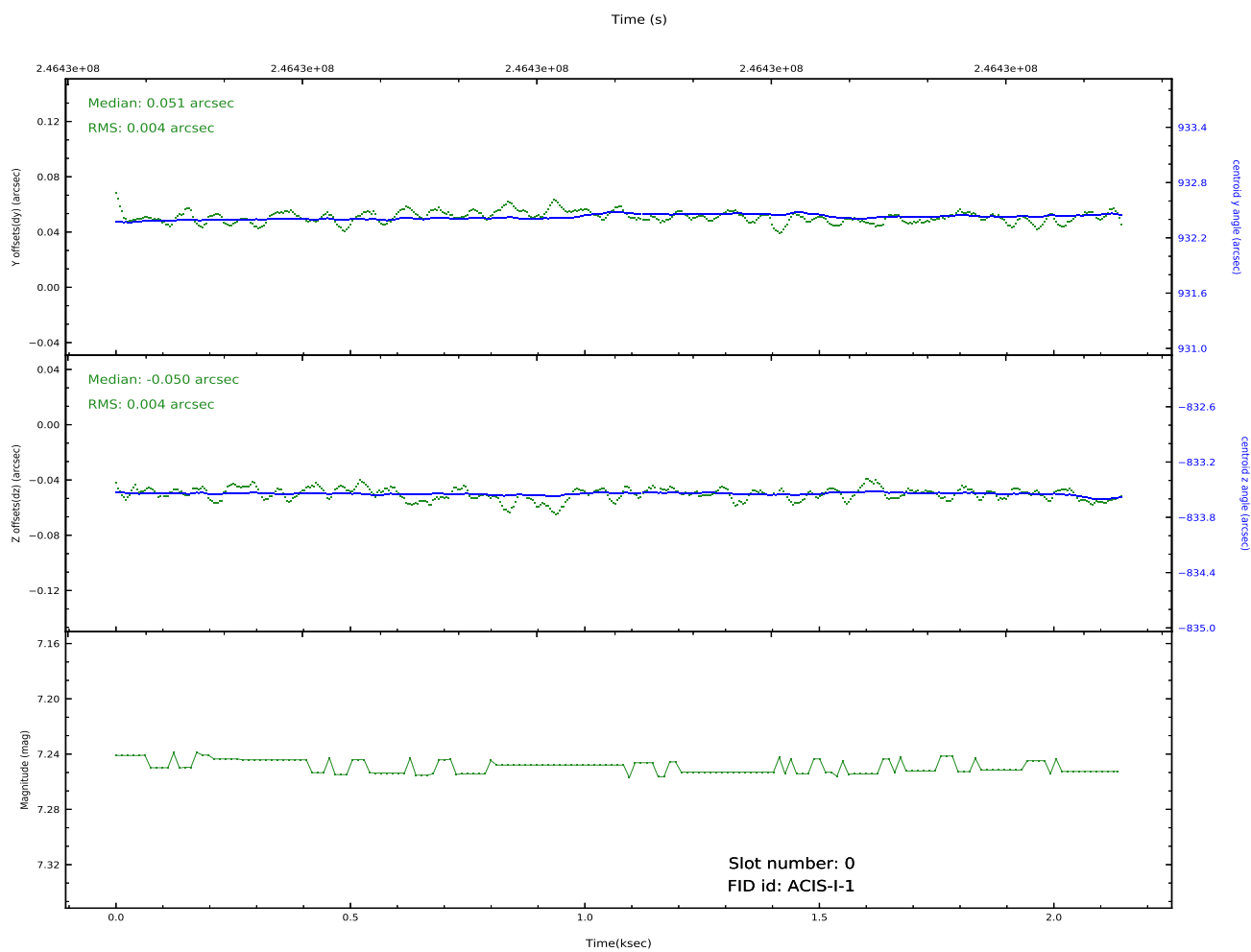
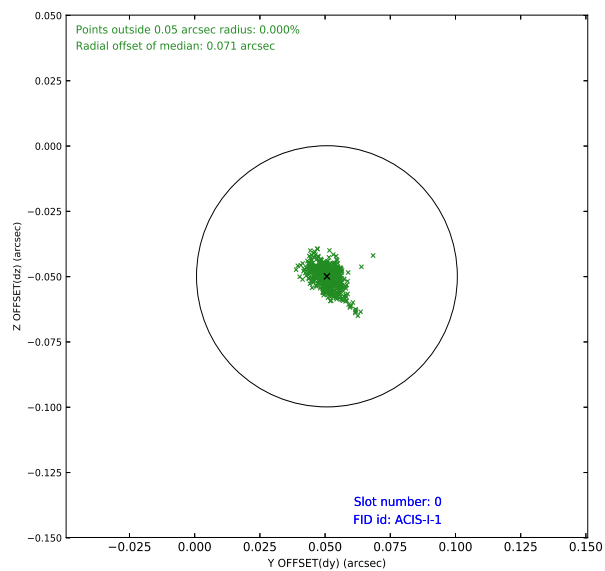
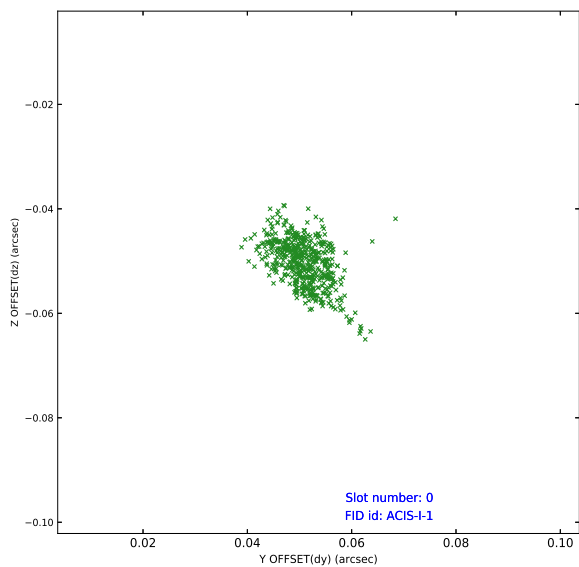


Time (s)

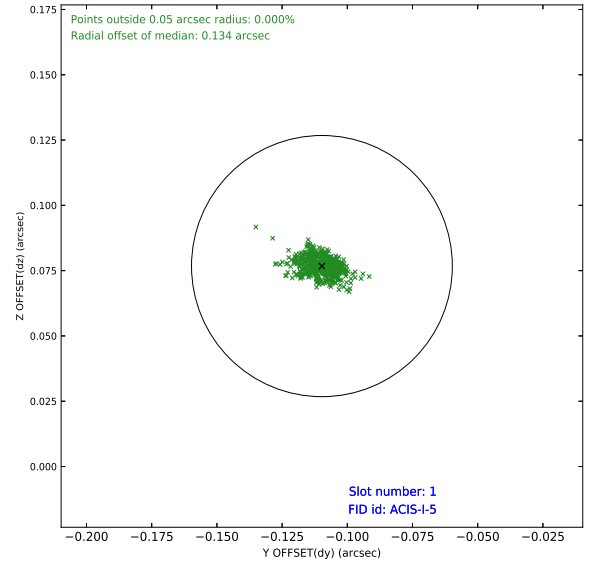
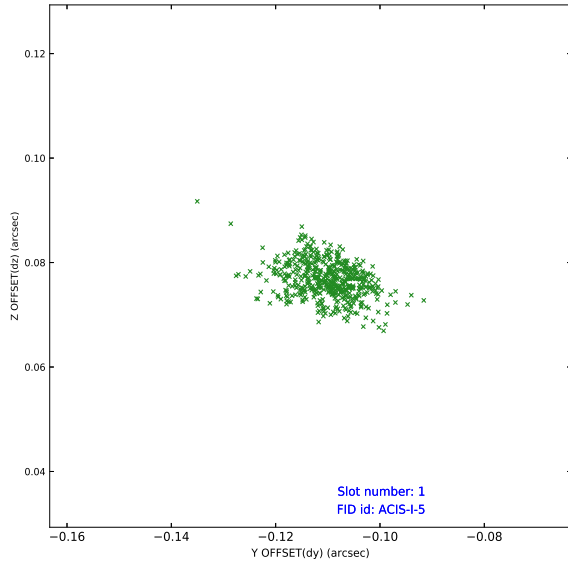


2.5 FID Slots

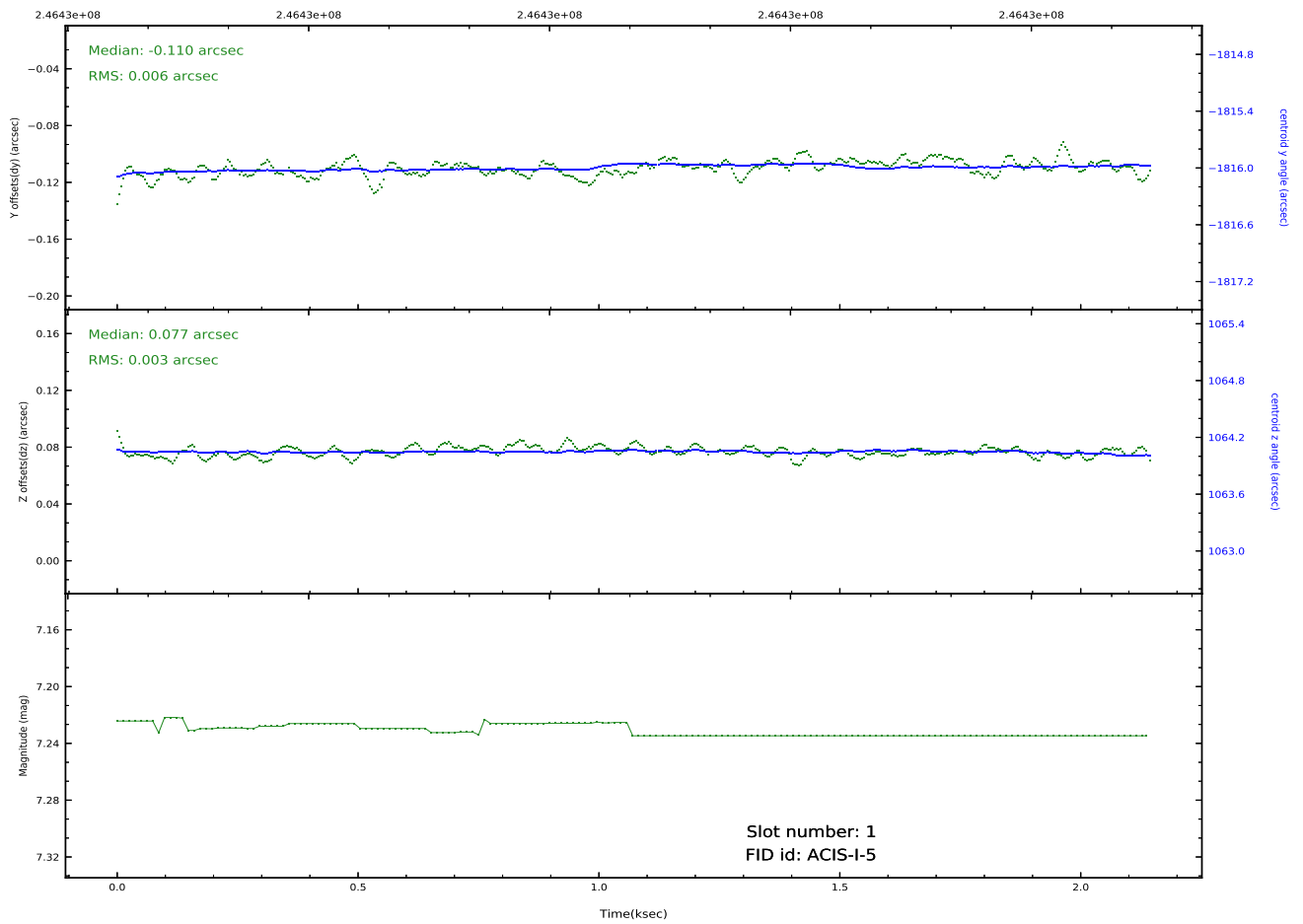
2.5.1 Slot 0



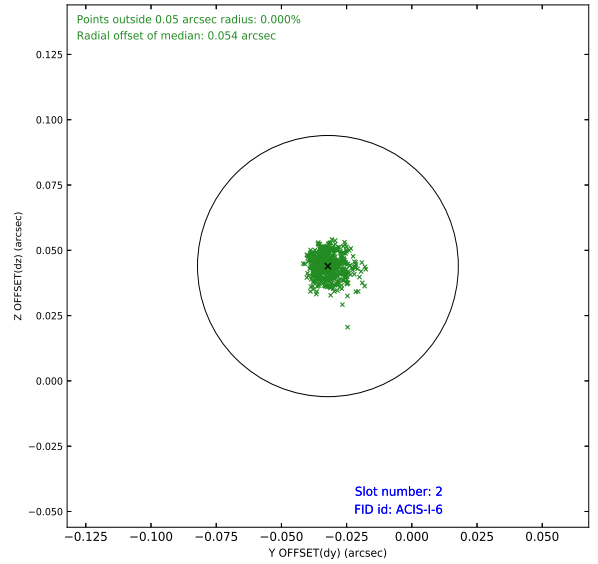
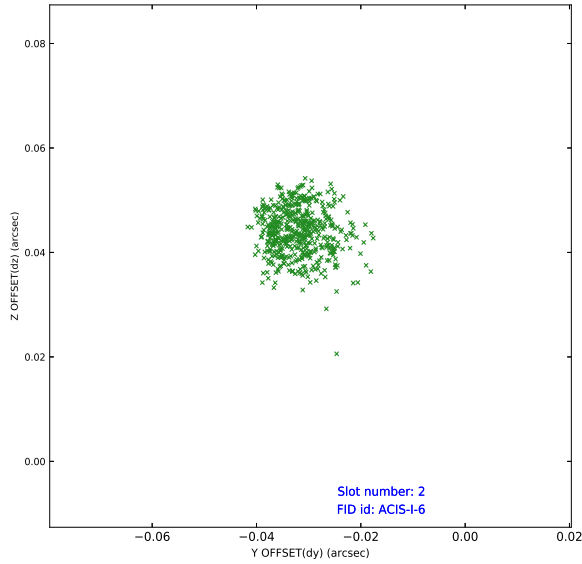
2.5.2 Slot 1



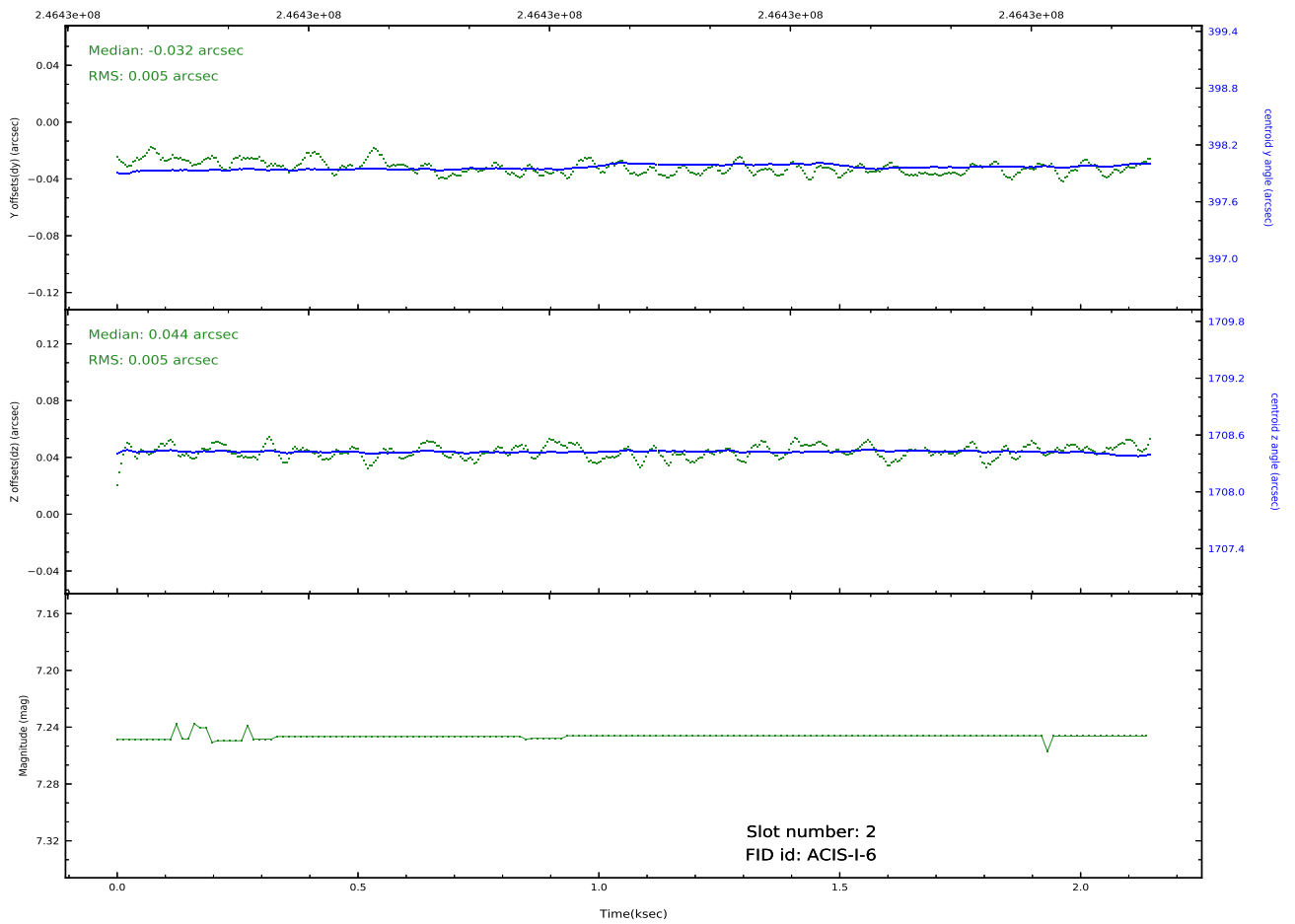
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.746656

A.2 Comments

Window constraint met.

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A spatial exclusion window was specified for this observation. Although 6 CCD chips were active, only events from chip 3 were telemetered.