

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19433 - L2 Version 2
Chandra X-Ray Center

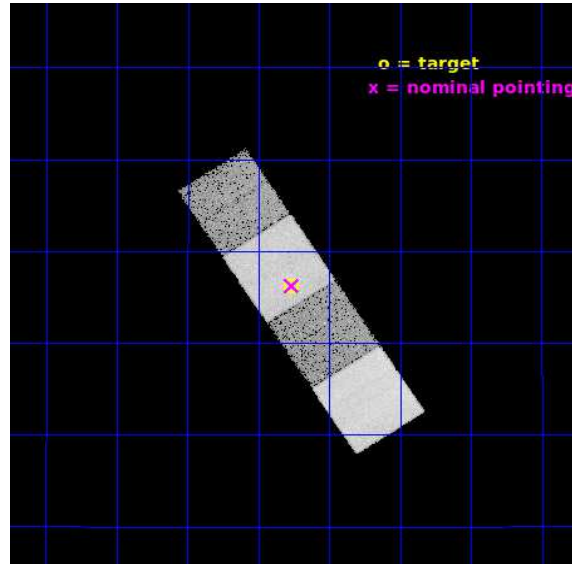
L2 Processing Date : Oct 25 2020

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1 Front

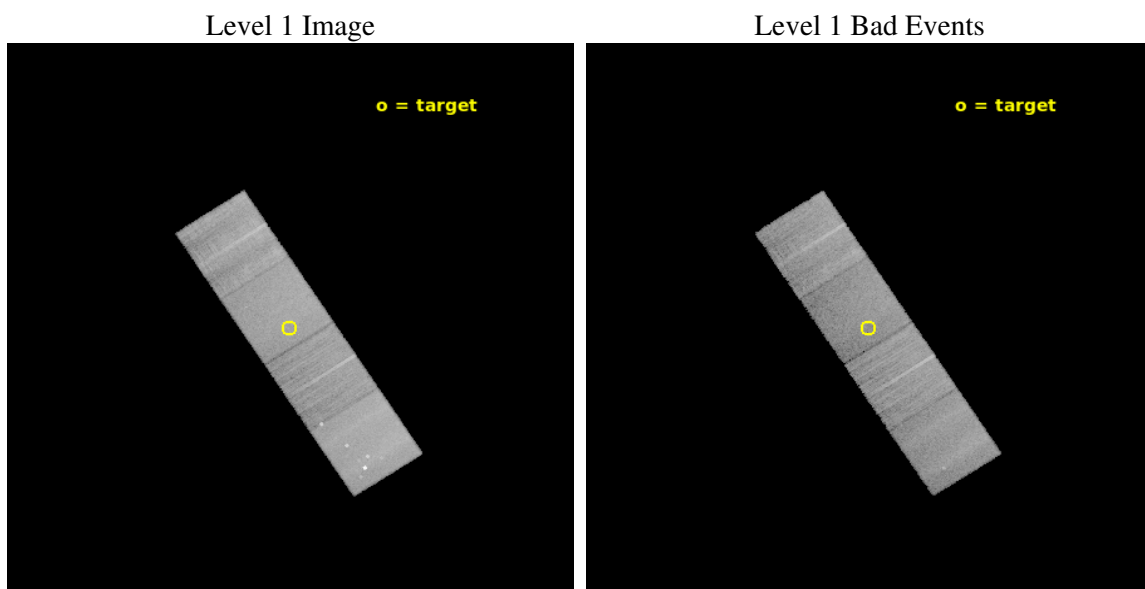
seq_num	601390	Sequence number
obs_id	19433	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	NGC 4445	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.06625	Observer's specified target RA [deg]
dec_targ	9.436194	Observer's specified target Dec [deg]
ra_nom	187.06594888833	Nominal RA [deg]
dec_nom	9.4375164128512	Nominal Dec [deg]
roll_nom	236.88261413028	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15059.165647745	Sum of GTIs [s]
livetime	14862.406562161	Livetime [s]
ontime5	15059.124607801	Sum of GTIs [s]
ontime6	15059.083567739	Sum of GTIs [s]
ontime7	15059.165647745	Sum of GTIs [s]
ontime8	15052.760397315	Sum of GTIs [s]
l2events	162692	Number of level 2 events



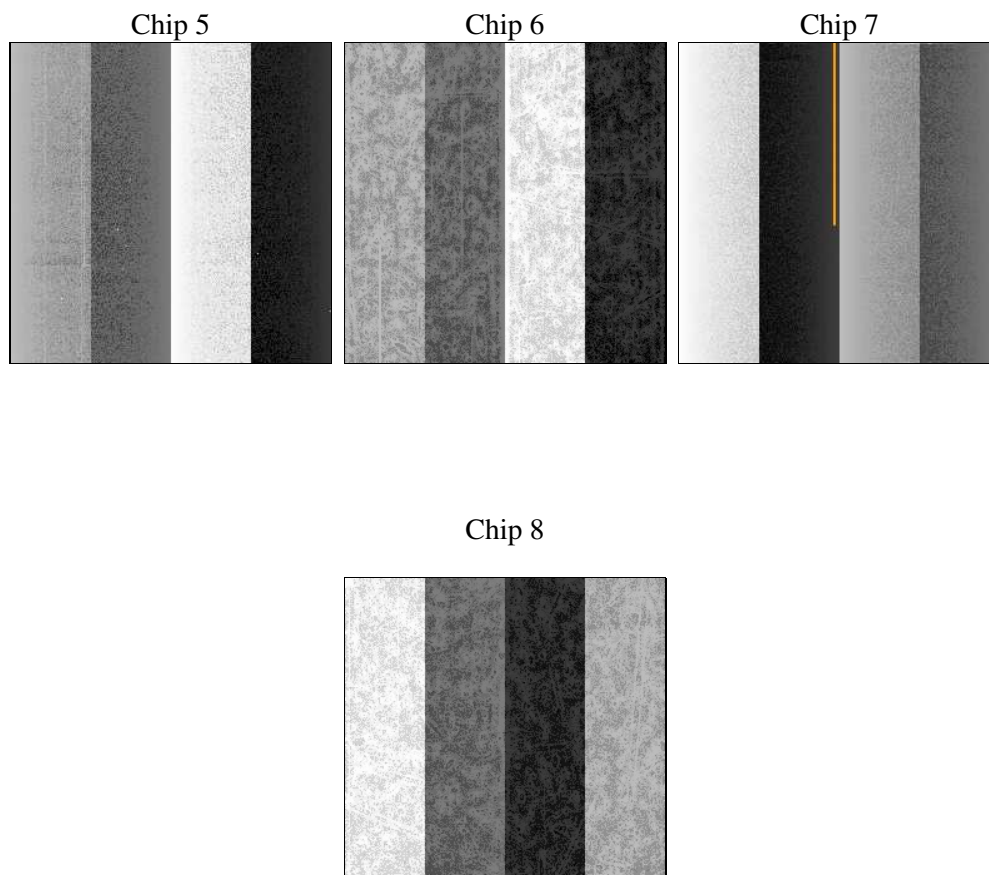
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	15059.165647745	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	15059.124607801	Sum of GTIs [s]
date	2020-10-25T22:32:11	Date and time of file creation	ontime6	15059.083567739	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	15059.165647745	Sum of GTIs [s]
			ontime8	15052.760397315	Sum of GTIs [s]
			l1events	592953	Number of level 1 events

2.1.4 Events

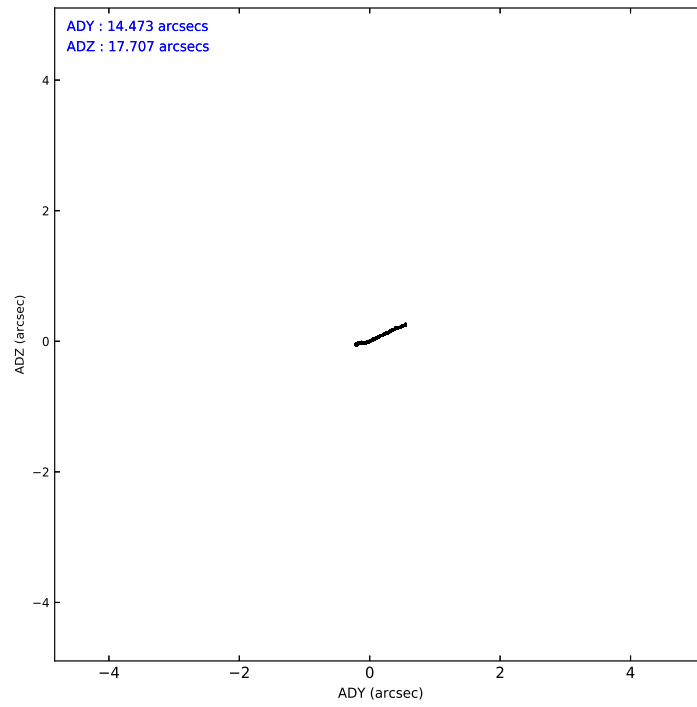
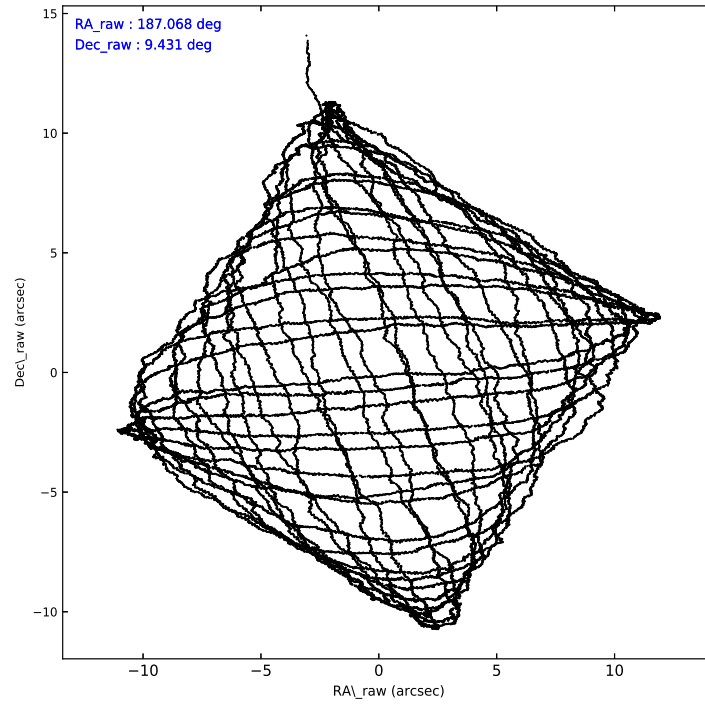
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	184091	118722	144659	145481
rejected events	94900	106036	82294	109324
rejected %	51%	89%	56%	75%

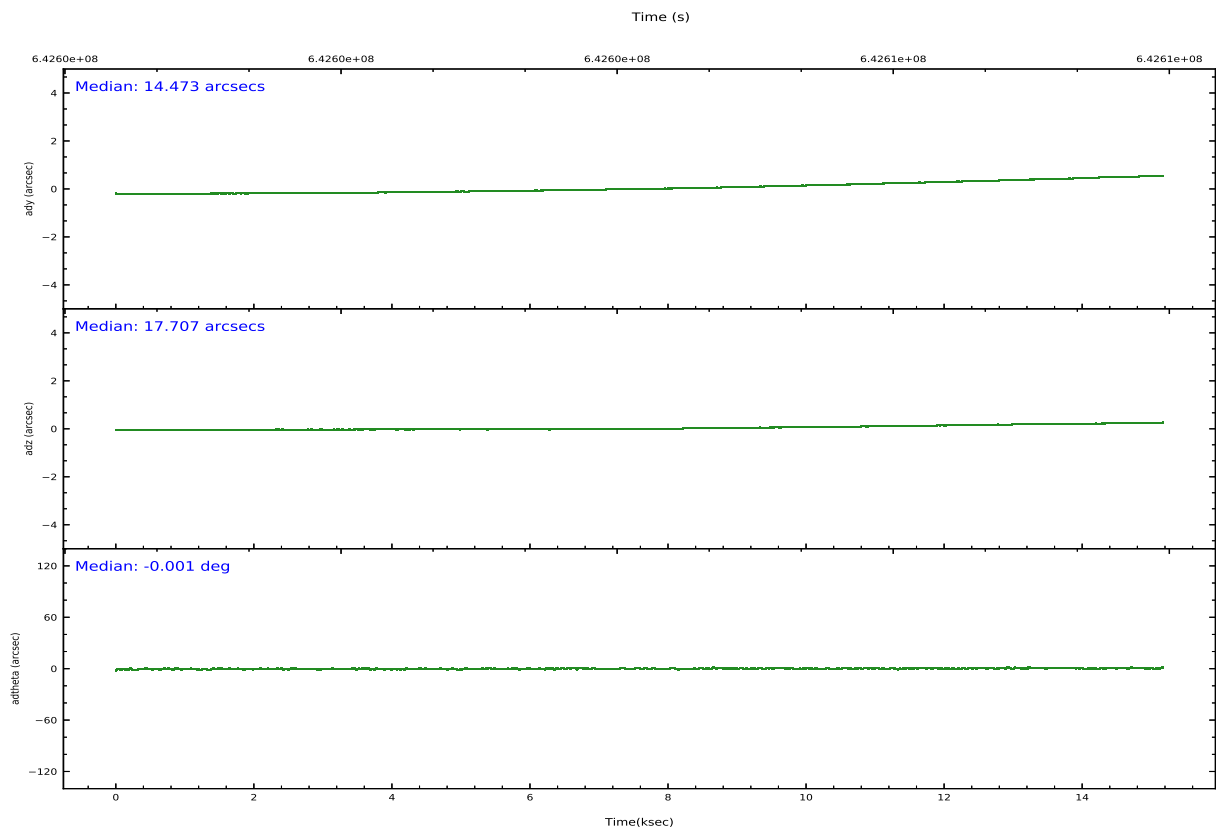
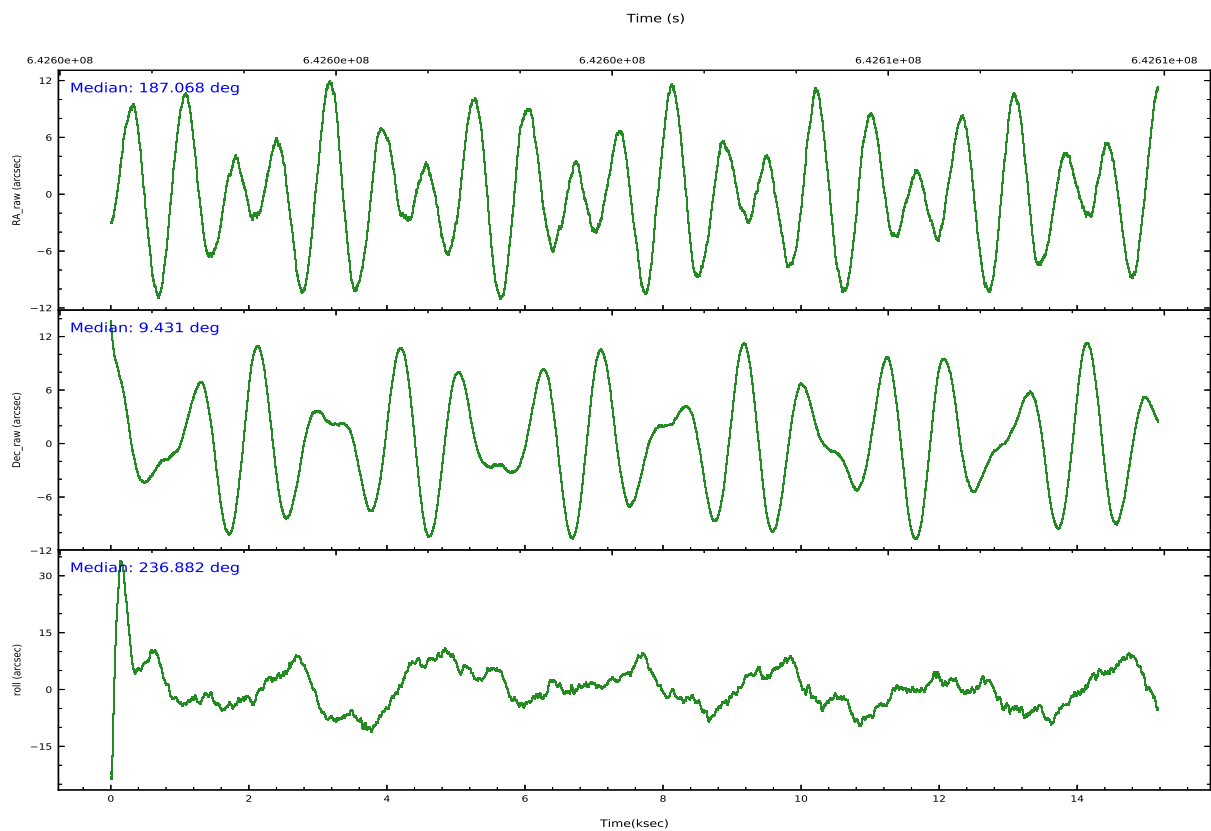
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	9090	3672	5314	10271
	4%	3%	3%	7%
grade 1 events	636	42	212	104
	0%	0%	0%	0%
grade 2 events	27272	3391	13016	8764
	14%	2%	8%	6%
grade 3 events	2593	1071	4967	3710
	1%	0%	3%	2%
grade 4 events	2653	1023	4966	3454
	1%	0%	3%	2%
grade 5 events	11230	4616	13890	7480
	6%	3%	9%	5%
grade 6 events	47613	3539	34130	9963
	25%	2%	23%	6%
grade 7 events	83004	101368	68164	101735
	45%	85%	47%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-5678	ACIS-5678	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	187.069057	187.06594888833	Subarray requested	NONE	NONE
[deg] Pointing Dec	9.458578	9.437516412851201	Alternating exposures requested	N	N
[deg] Pointing Roll	236.731574	236.88261413028	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	642596910.184000	642596011.72671			
Observation start date	2018-05-13T11:07:21	2018-05-13T10:53:31			
[s] Observation end time (MET)	642611910.184000	642612043.75265			
Observation end date	2018-05-13T15:17:21	2018-05-13T15:20:43			
Read mode	TIMED	TIMED			

2.3 Aspect



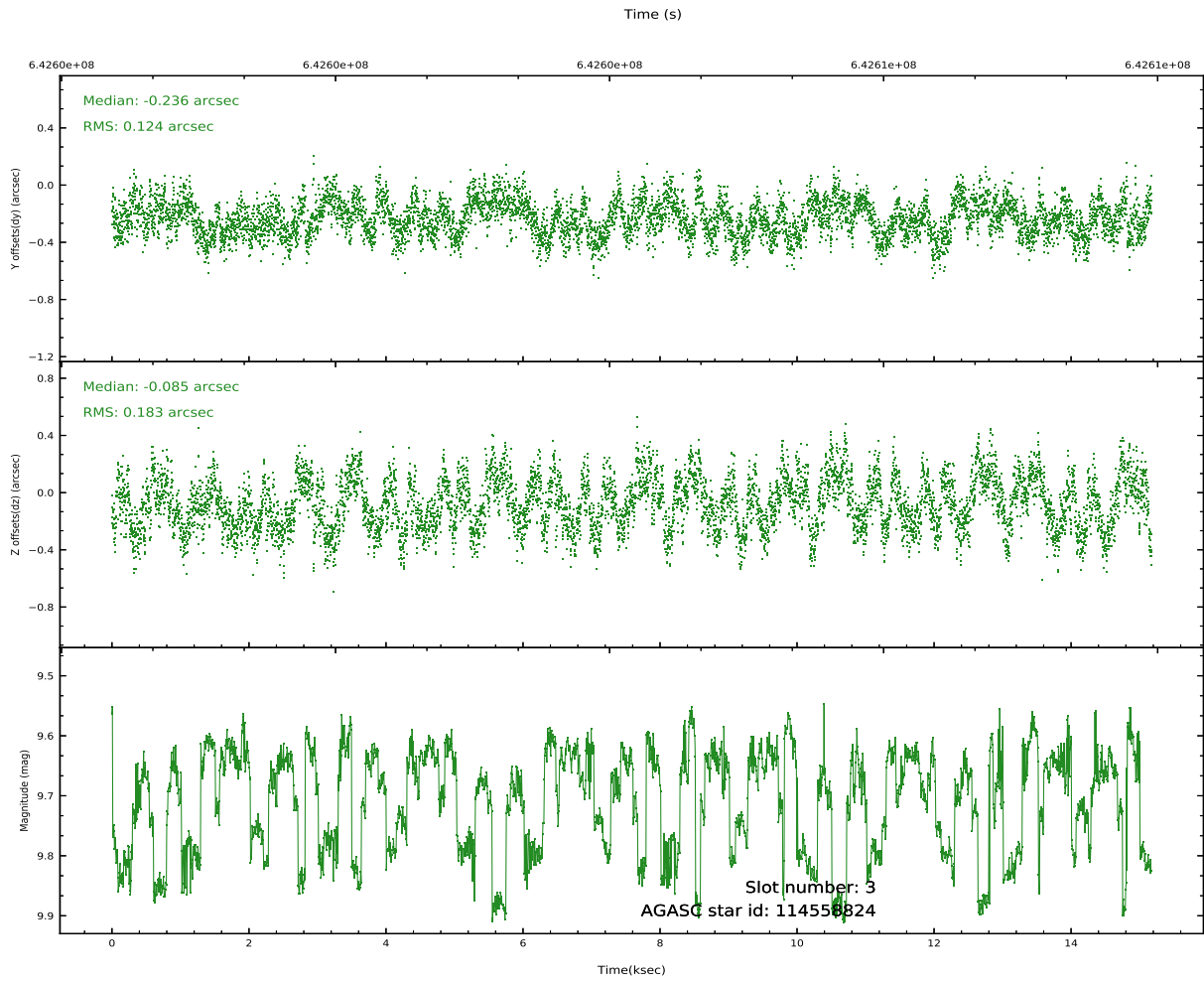
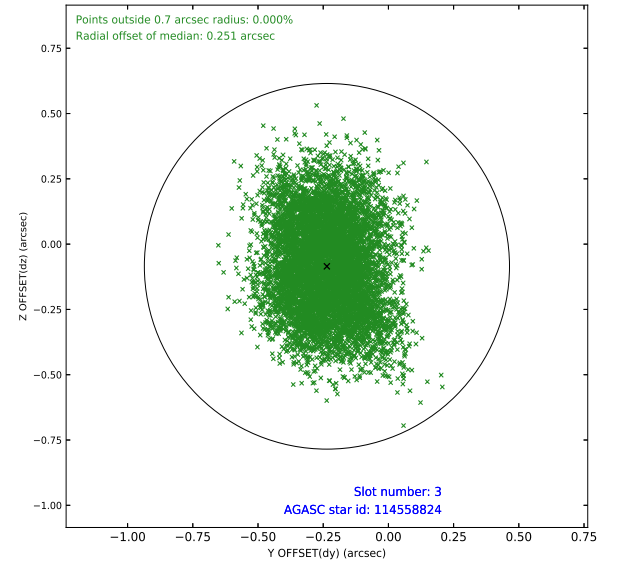
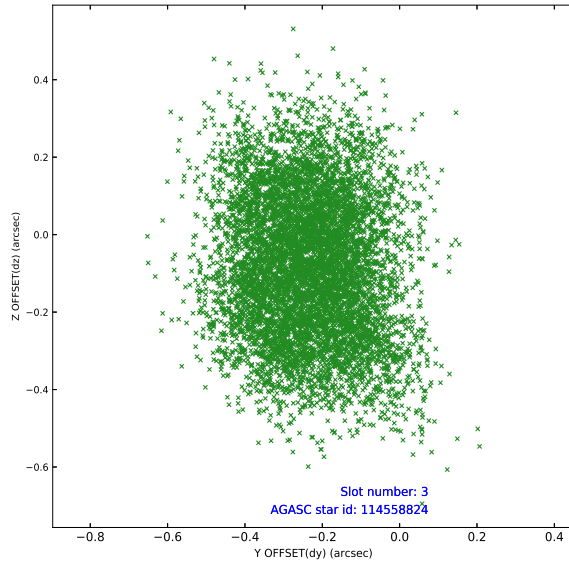


Slot Statistics

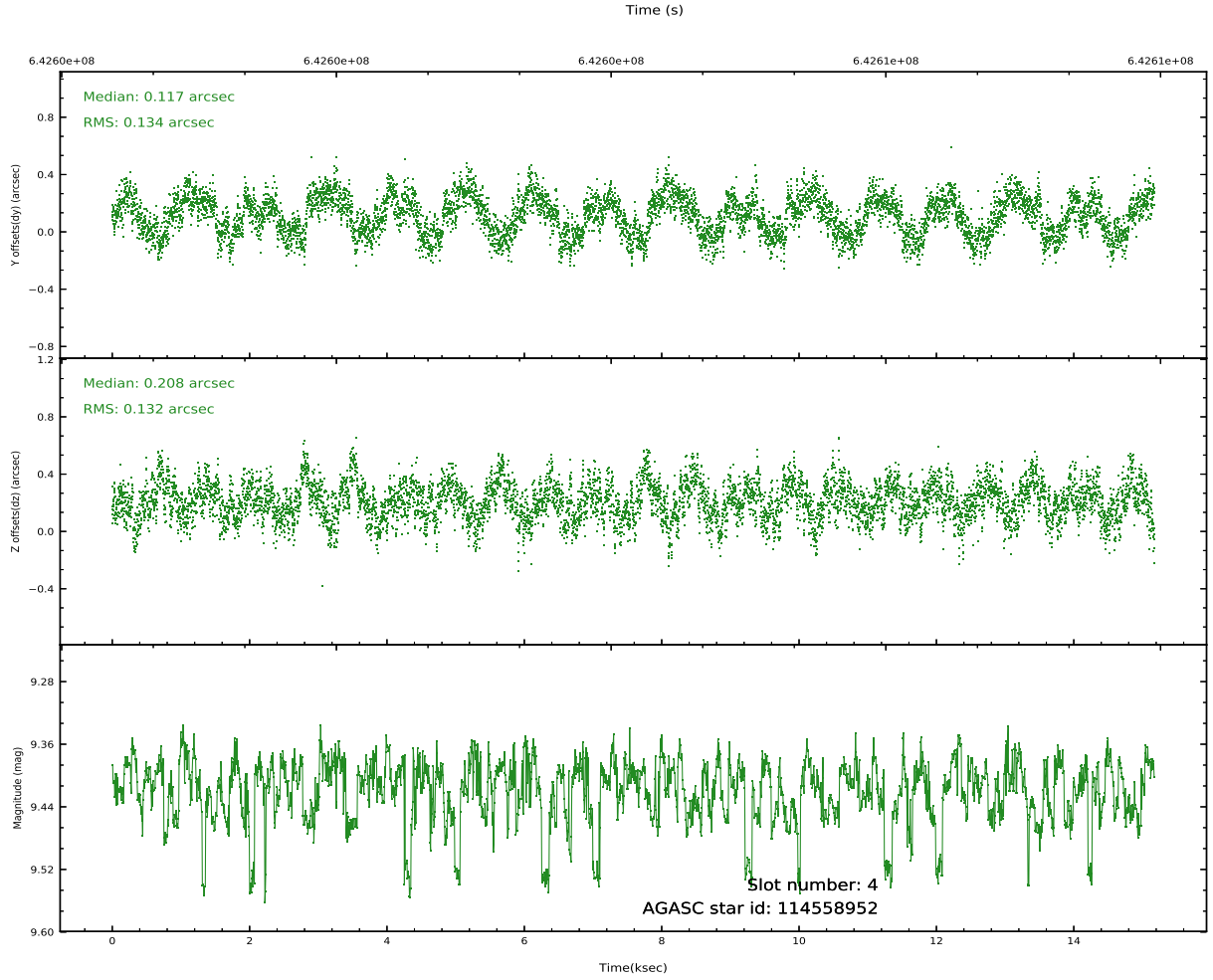
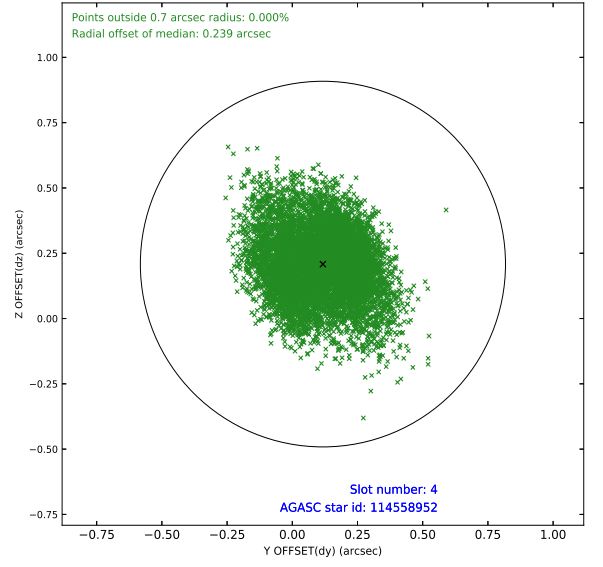
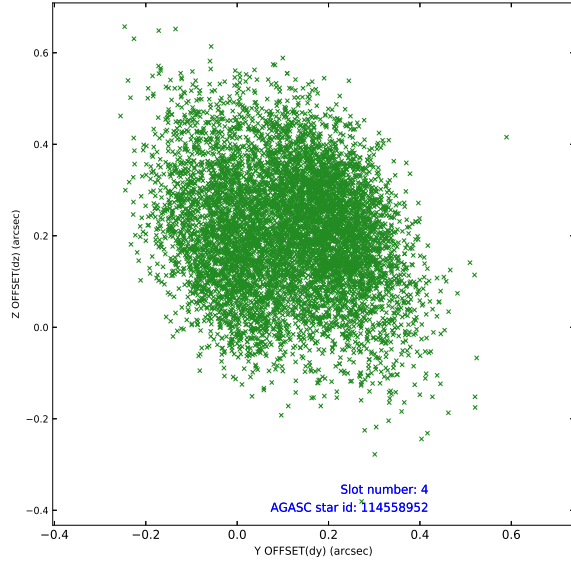
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.26	3701	1.000	0.312	-0.168	0.009	0.017	0.000000	0.000000	928.73	-1735
1	FID		ACIS-S-5	7.26	3701	1.000	-0.319	0.237	0.009	0.016	0.000000	0.000000	-1820.59	162
2	FID		ACIS-S-6	7.42	3701	1.000	-0.014	-0.058	0.008	0.012	0.000000	0.000000	393.82	806
3	GUIDE	used	114558824	9.69	7388	1.000	-0.236	-0.085	0.237	0.373	187.023305	9.331255	472.74	116
4	GUIDE	used	114558952	9.42	7392	1.000	0.117	0.208	0.201	0.316	186.929093	9.345397	614.01	-191
5	GUIDE	used	114559320	9.89	7394	1.000	-0.059	0.030	0.287	0.437	187.769706	9.386795	-1150.33	2221
6	GUIDE	used	114562016	9.74	7391	1.000	0.017	-0.086	0.251	0.394	187.666482	9.315593	-734.87	2056
7	GUIDE	used	114562600	8.72	7399	1.000	0.159	-0.066	0.200	0.315	186.973653	8.898661	1871.79	822

2.4 Star Slots

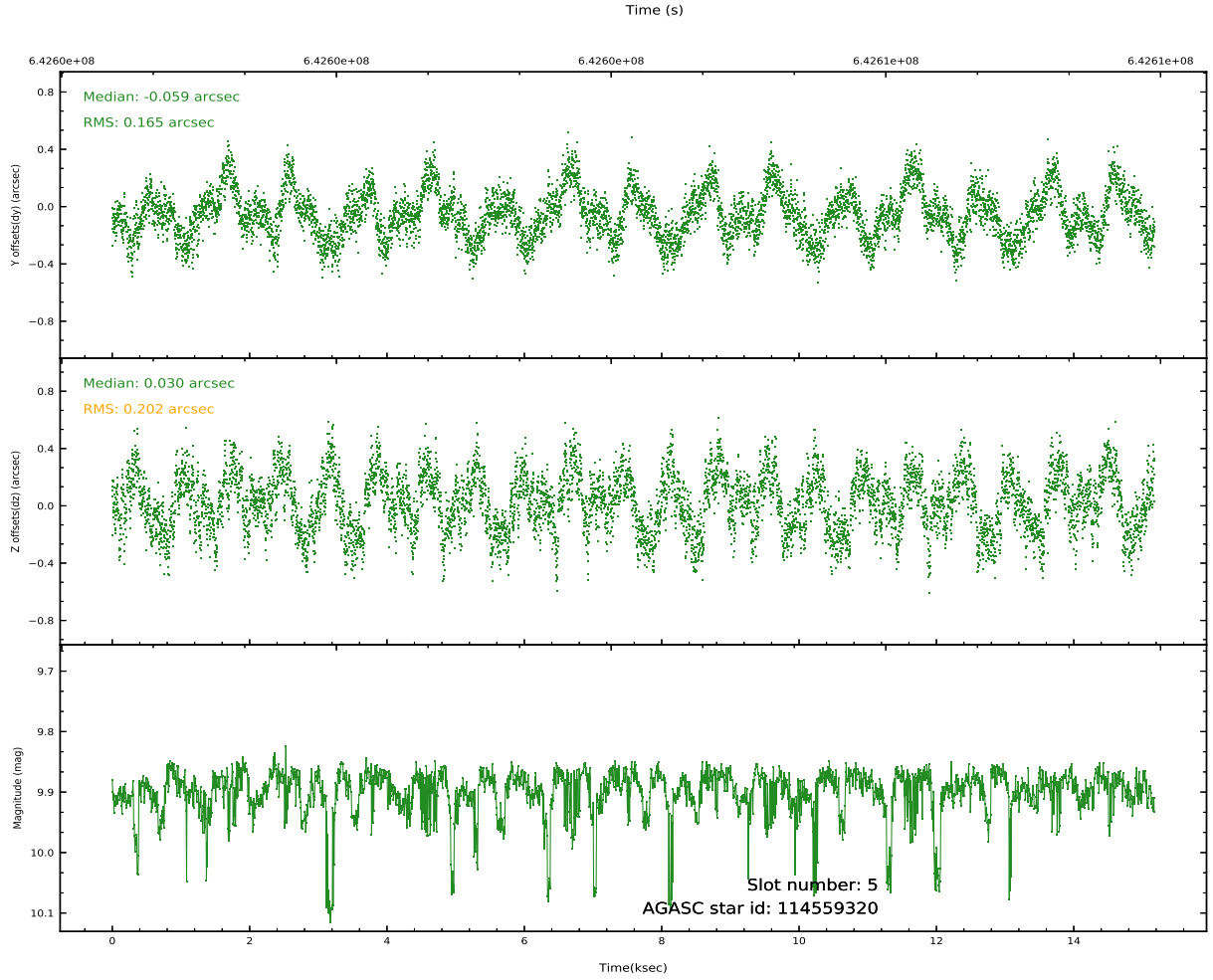
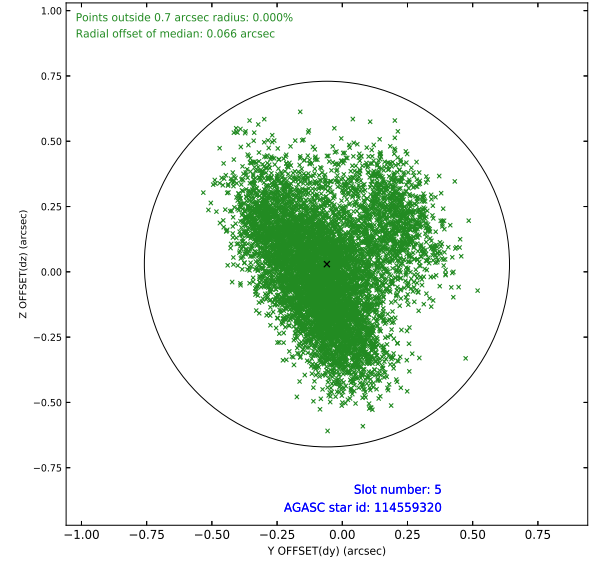
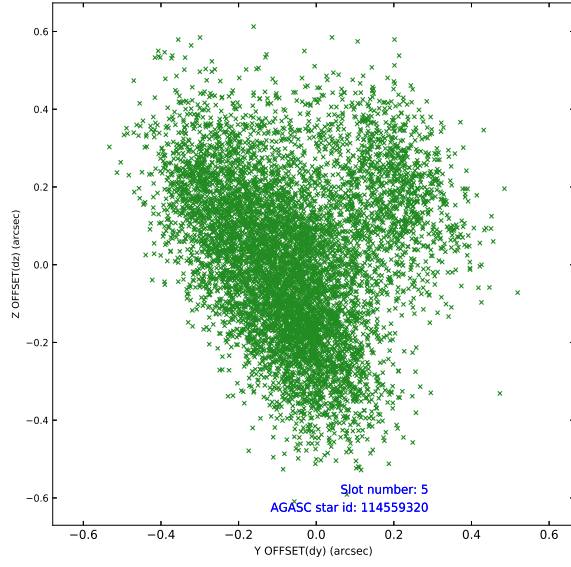
2.4.1 Slot 3



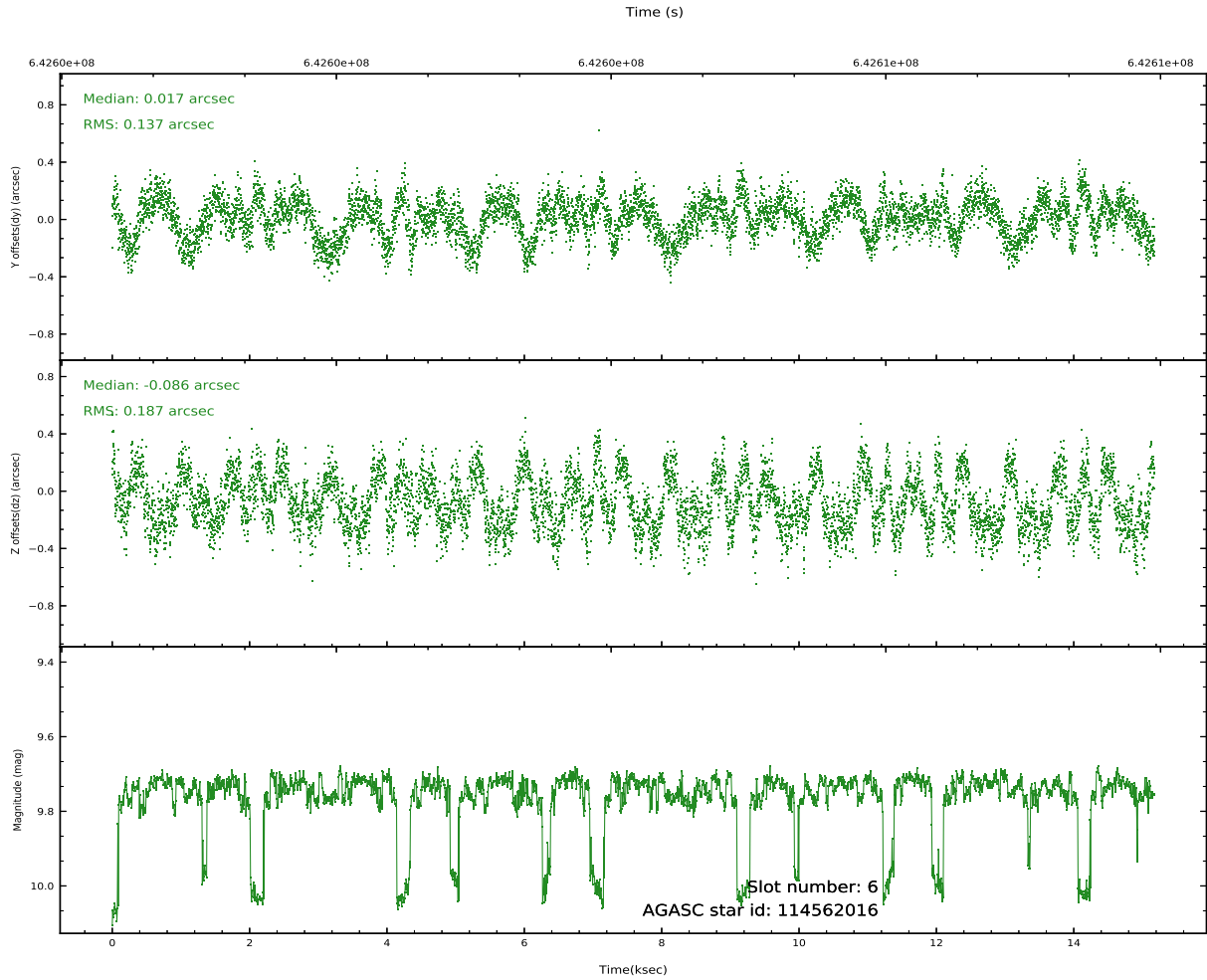
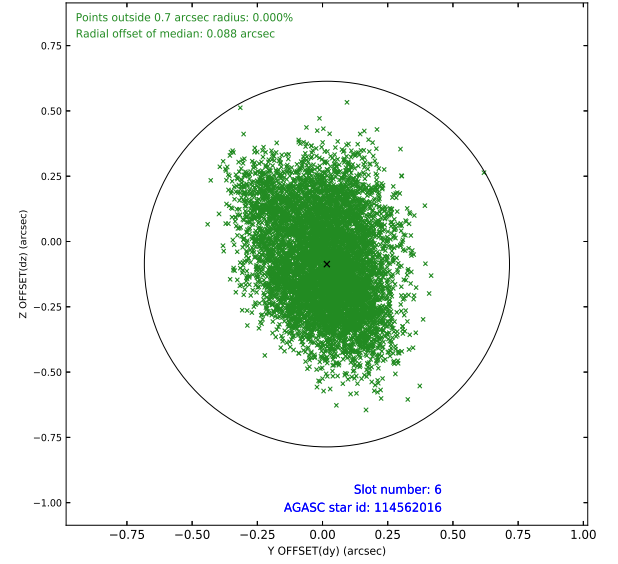
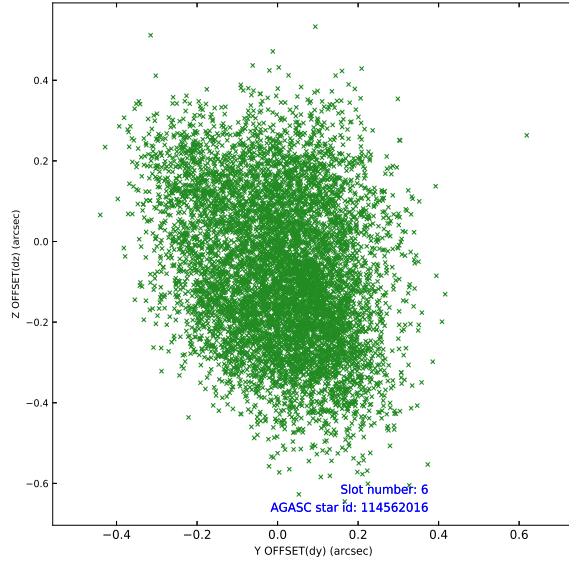
2.4.2 Slot 4



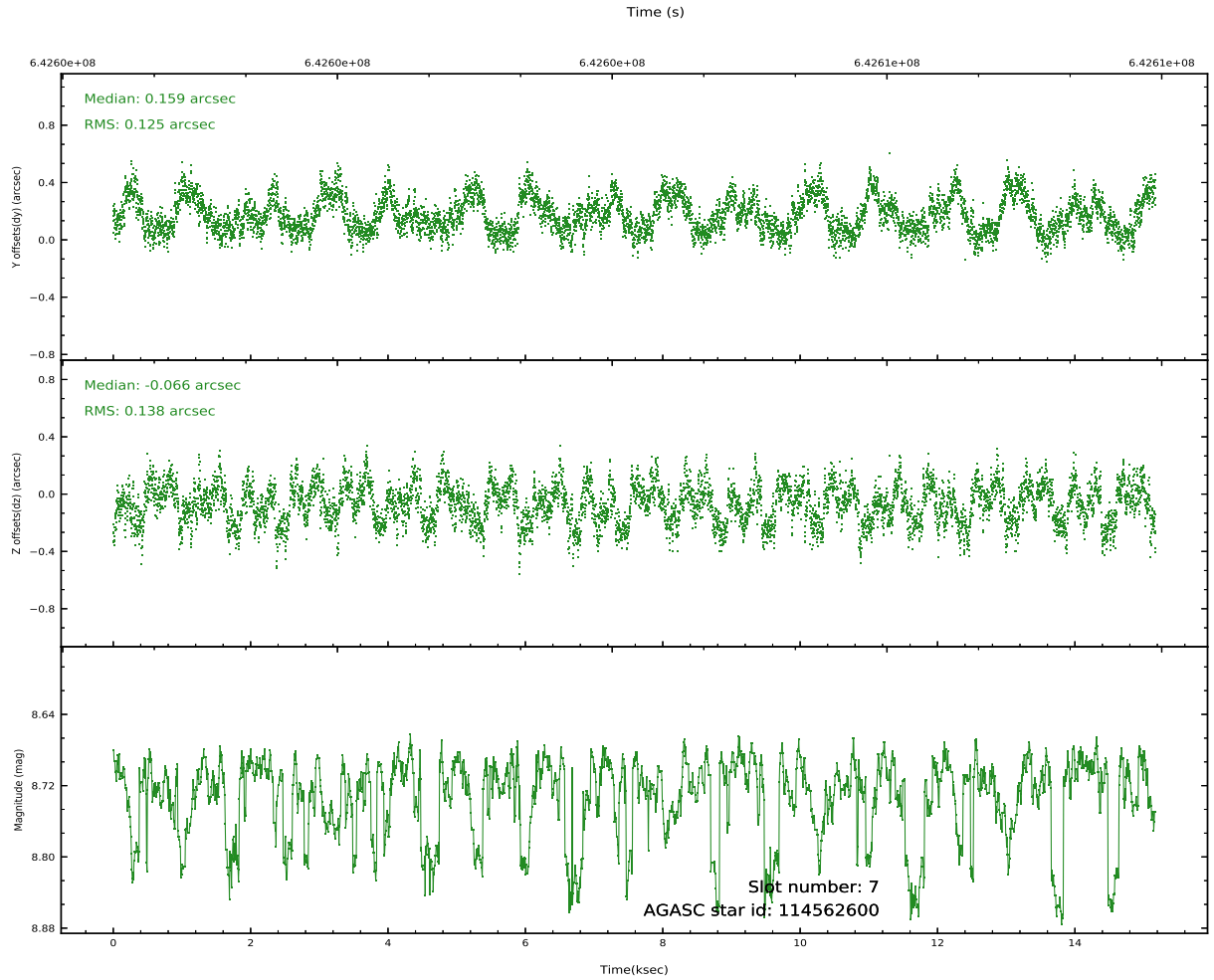
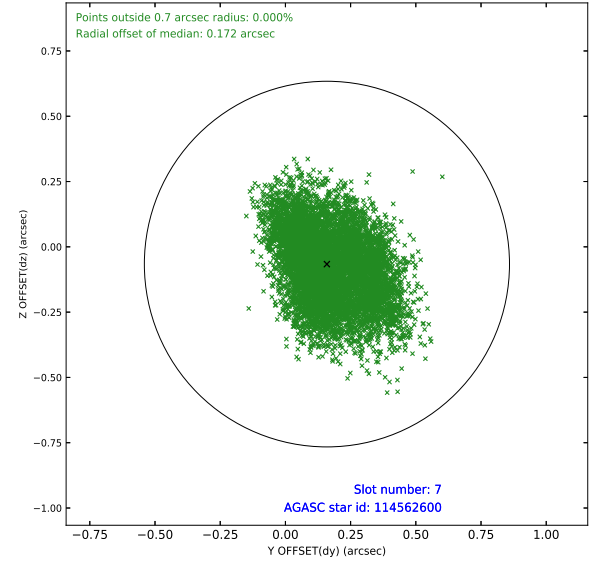
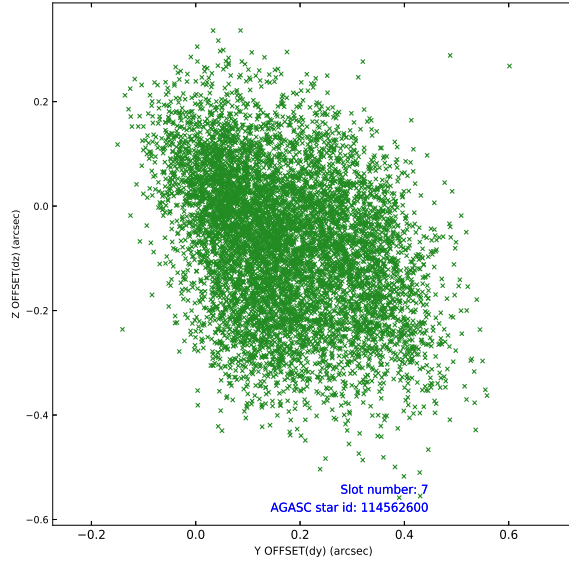
2.4.3 Slot 5



2.4.4 Slot 6

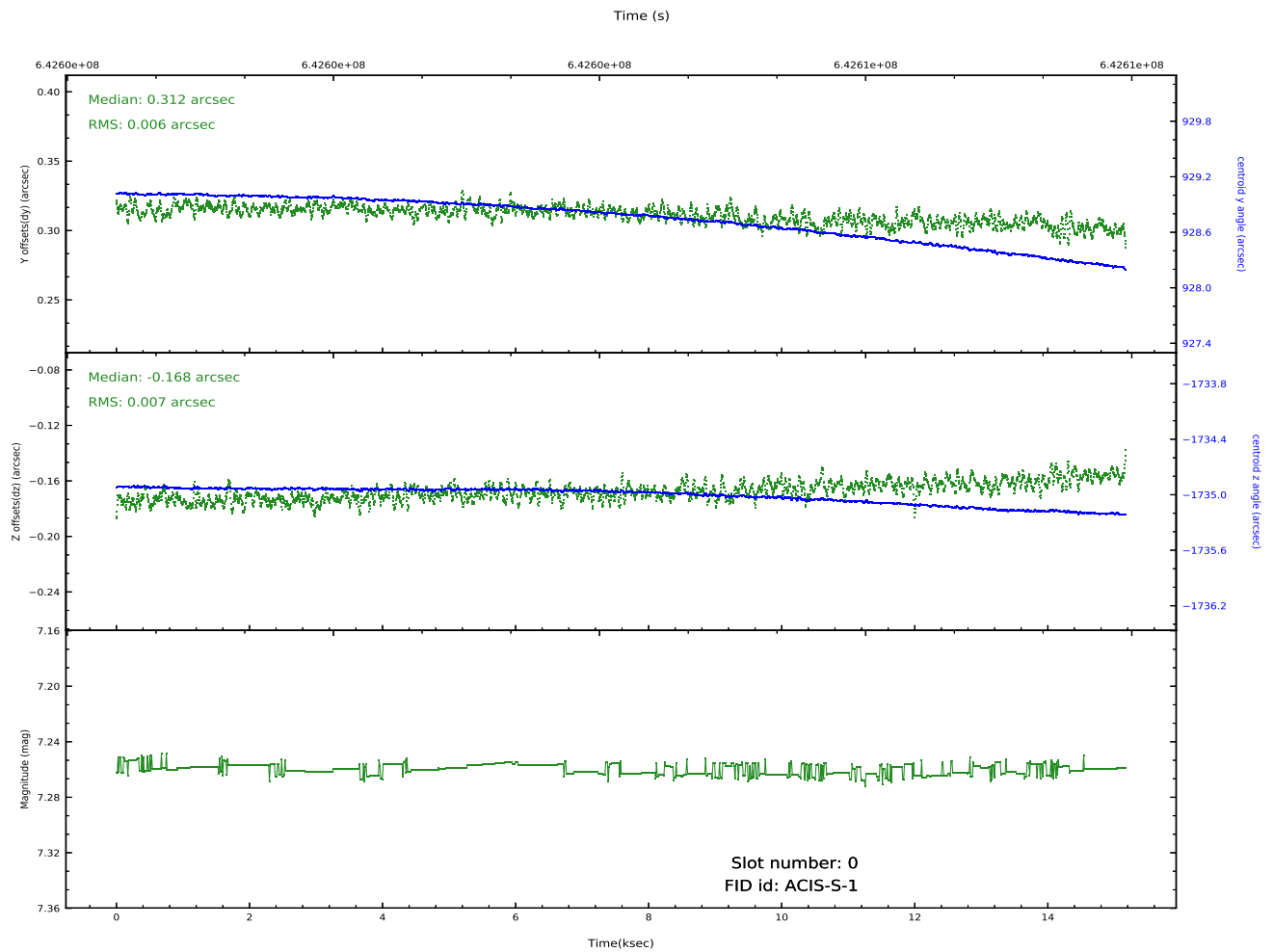
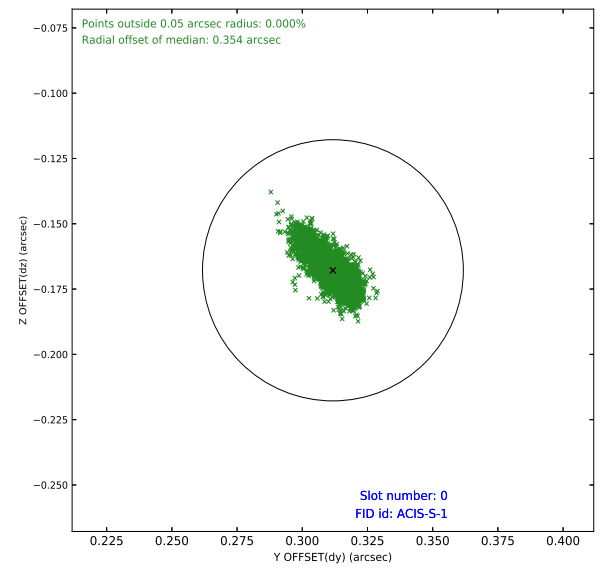
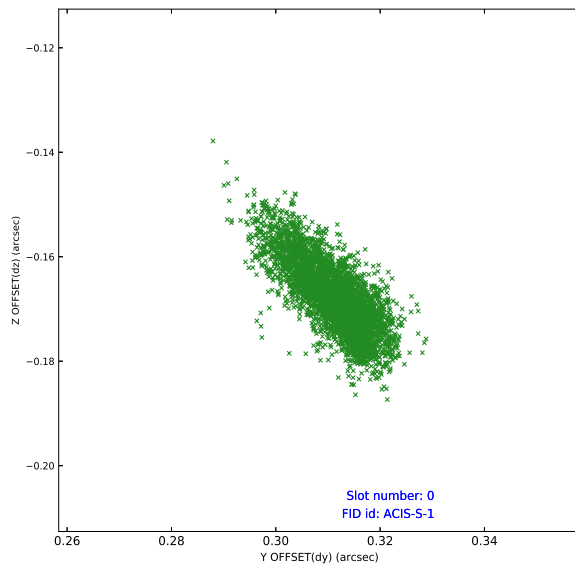


2.4.5 Slot 7

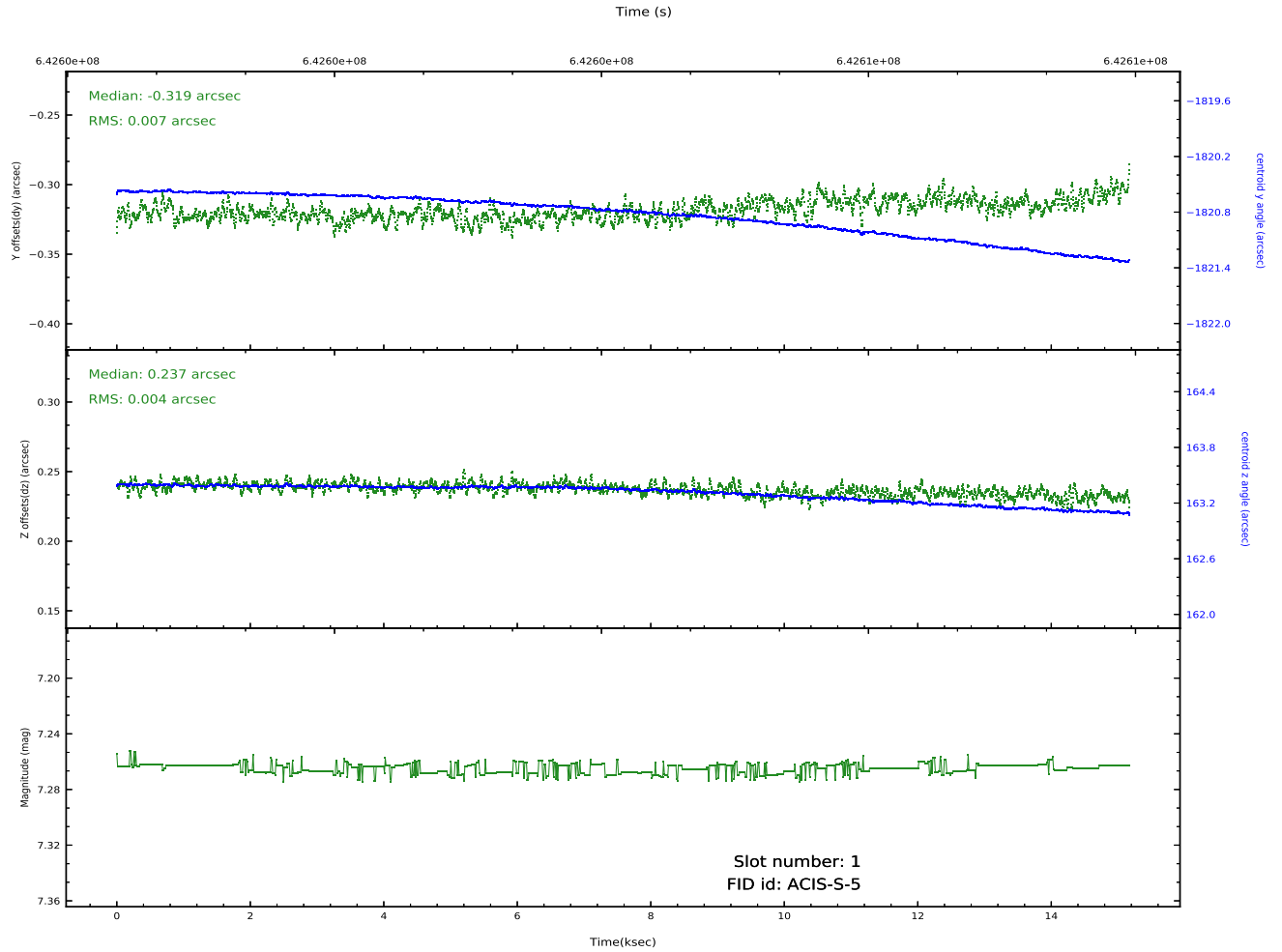
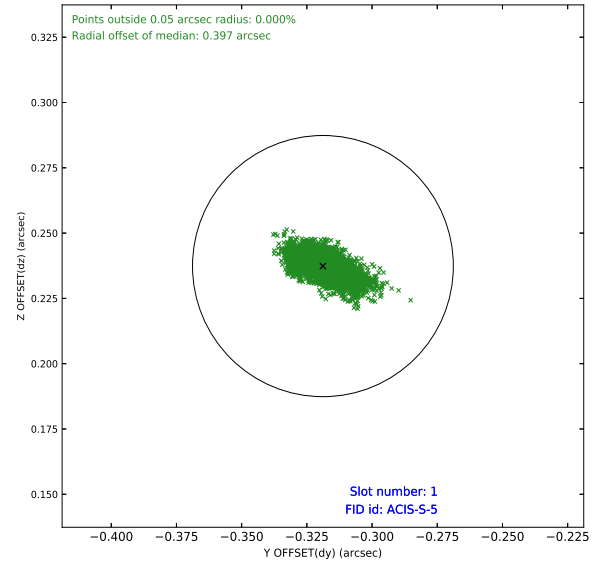
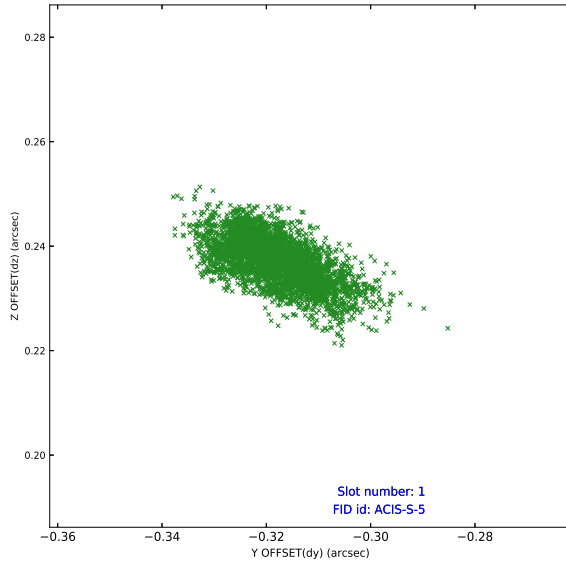


2.5 FID Slots

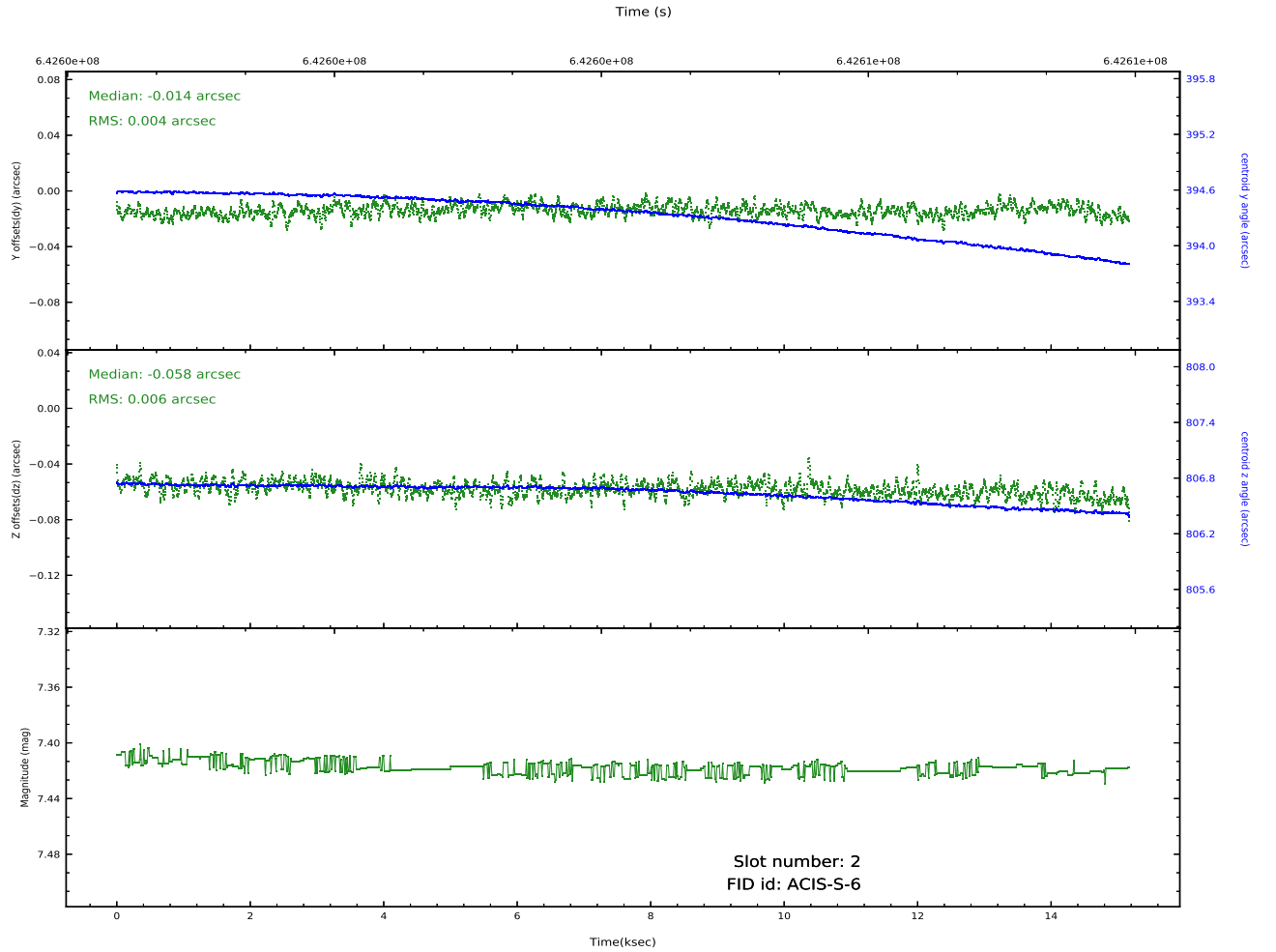
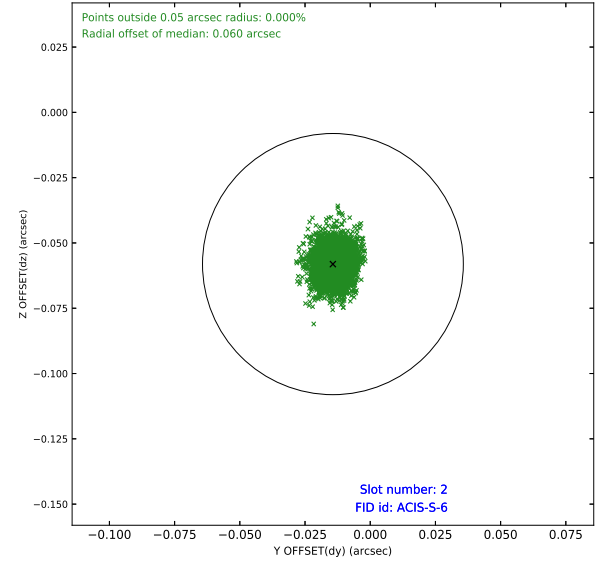
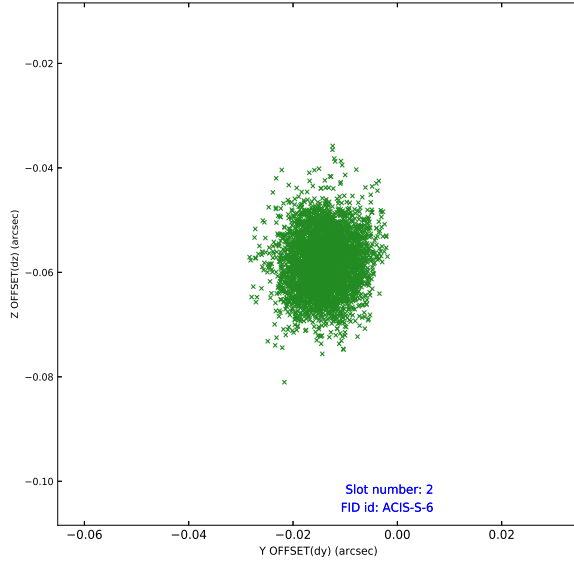
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.059165647149

A.2 Comments