

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19406 - L2 Version 2
Chandra X-Ray Center

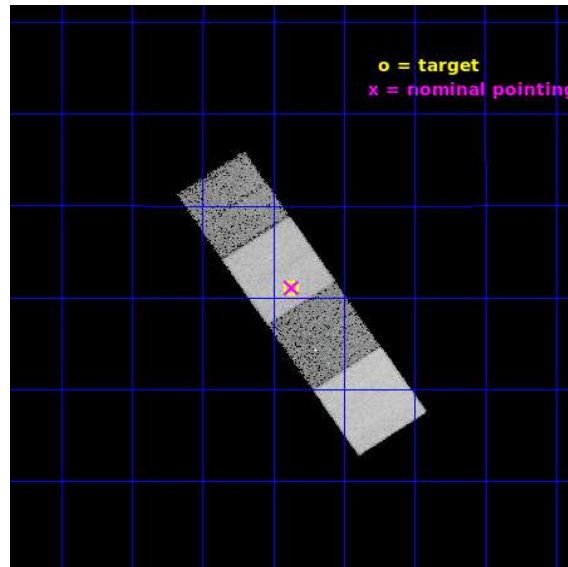
L2 Processing Date : Oct 27 2020

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1 Front

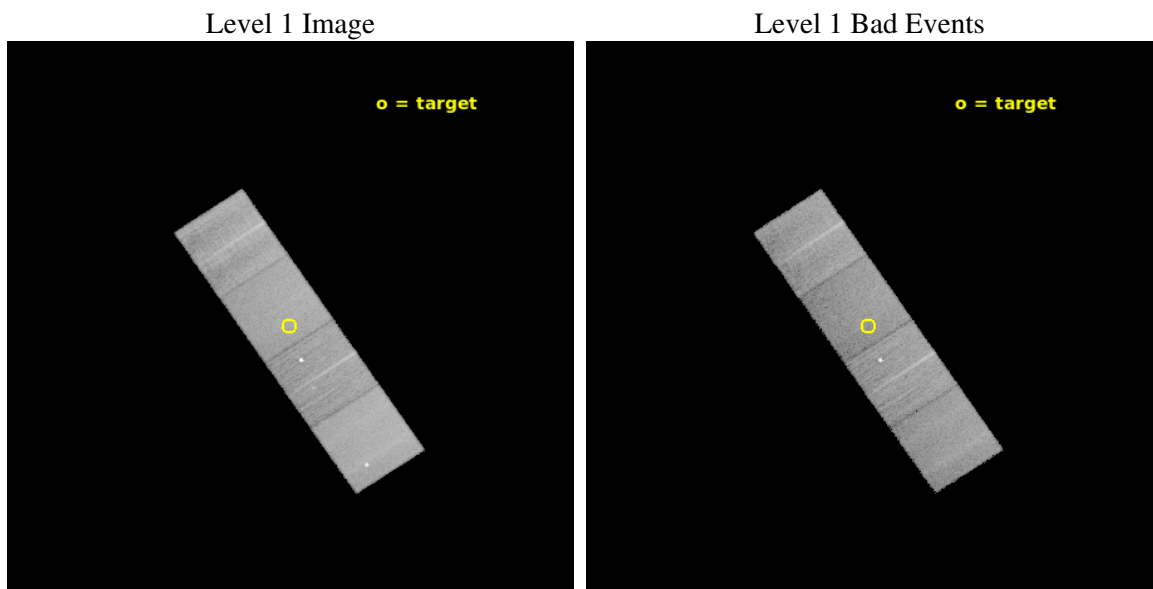
seq_num	601363	Sequence number
obs_id	19406	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	NGC 4380	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.3425	Observer's specified target RA [deg]
dec_targ	10.016806	Observer's specified target Dec [deg]
ra_nom	186.34212088826	Nominal RA [deg]
dec_nom	10.01809410396	Nominal Dec [deg]
roll_nom	236.13977670772	Nominal Roll [deg]
revision	2	Processing version of data
ontime	14907.465700746	Sum of GTIs [s]
livetime	14712.688686649	Livetime [s]
ontime5	14907.424660802	Sum of GTIs [s]
ontime6	14907.383620739	Sum of GTIs [s]
ontime7	14907.465700746	Sum of GTIs [s]
ontime8	14901.060450315	Sum of GTIs [s]
l2events	161533	Number of level 2 events



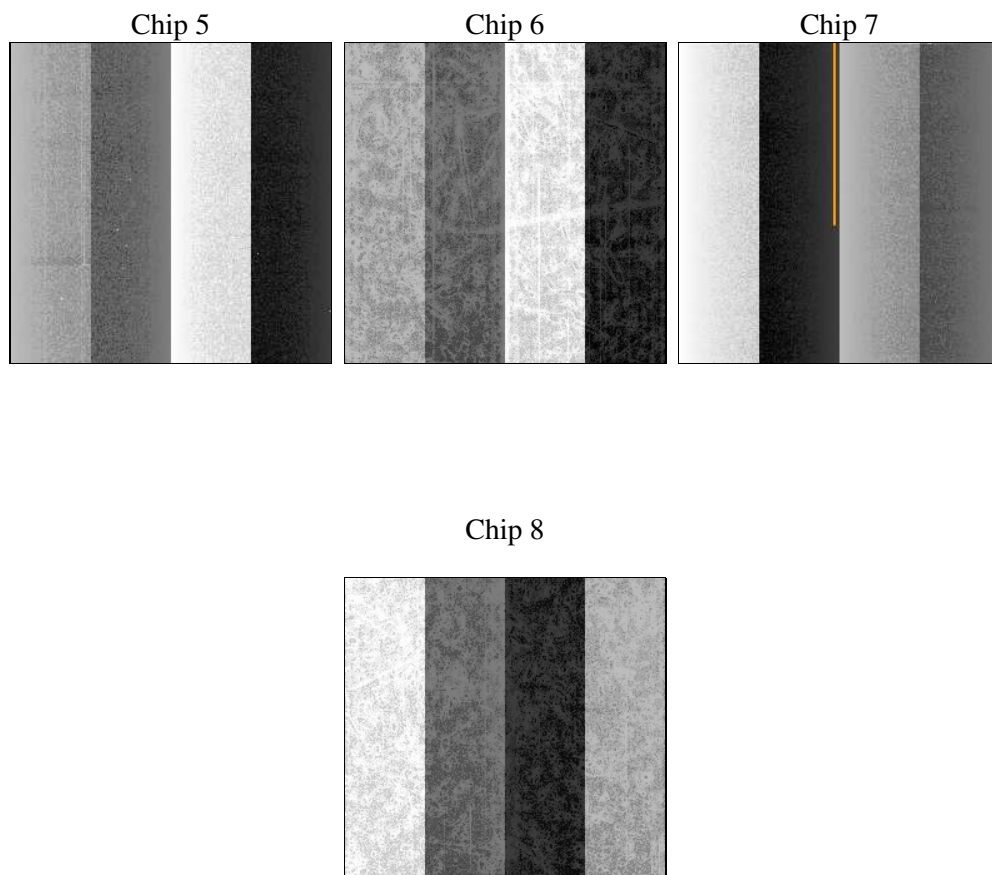
2 OBI

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	14907.465700746	Sum of GTIs [s]
caldbver	4.9.3	 	ontime5	14907.424660802	Sum of GTIs [s]
date	2020-10-25T22:12:33	Date and time of file creation	ontime6	14907.383620739	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	14907.465700746	Sum of GTIs [s]
			ontime8	14901.060450315	Sum of GTIs [s]
			l1events	580535	Number of level 1 events

2.1.4 Events

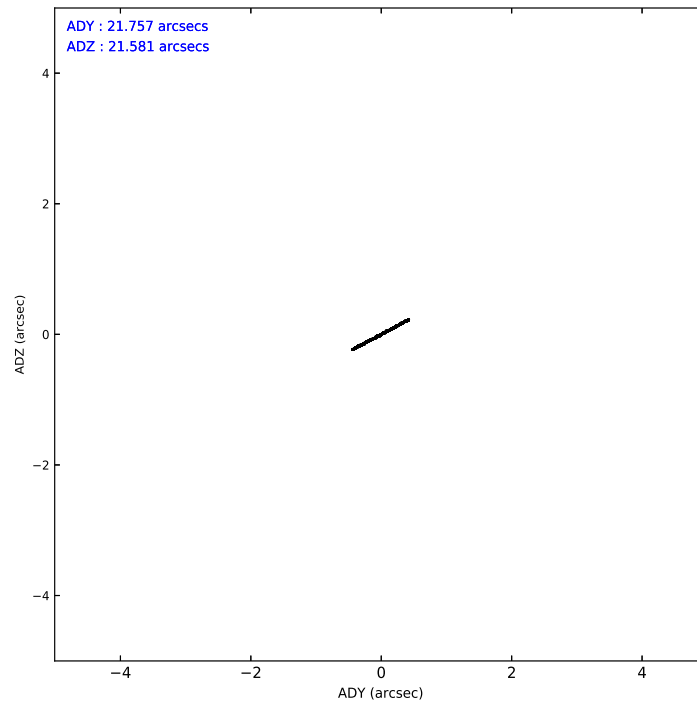
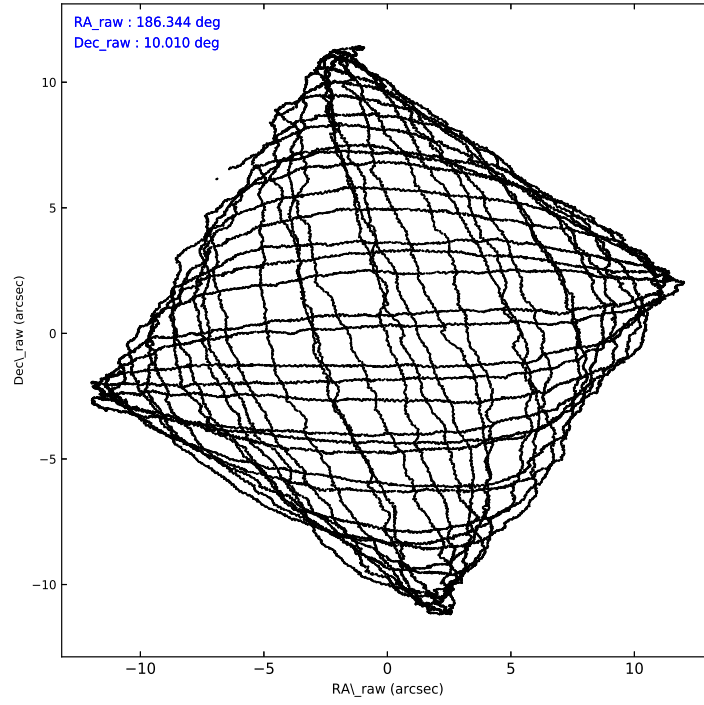
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	175012	119986	141522	144015
rejected events	91234	105873	80511	107896
rejected %	52%	88%	56%	74%

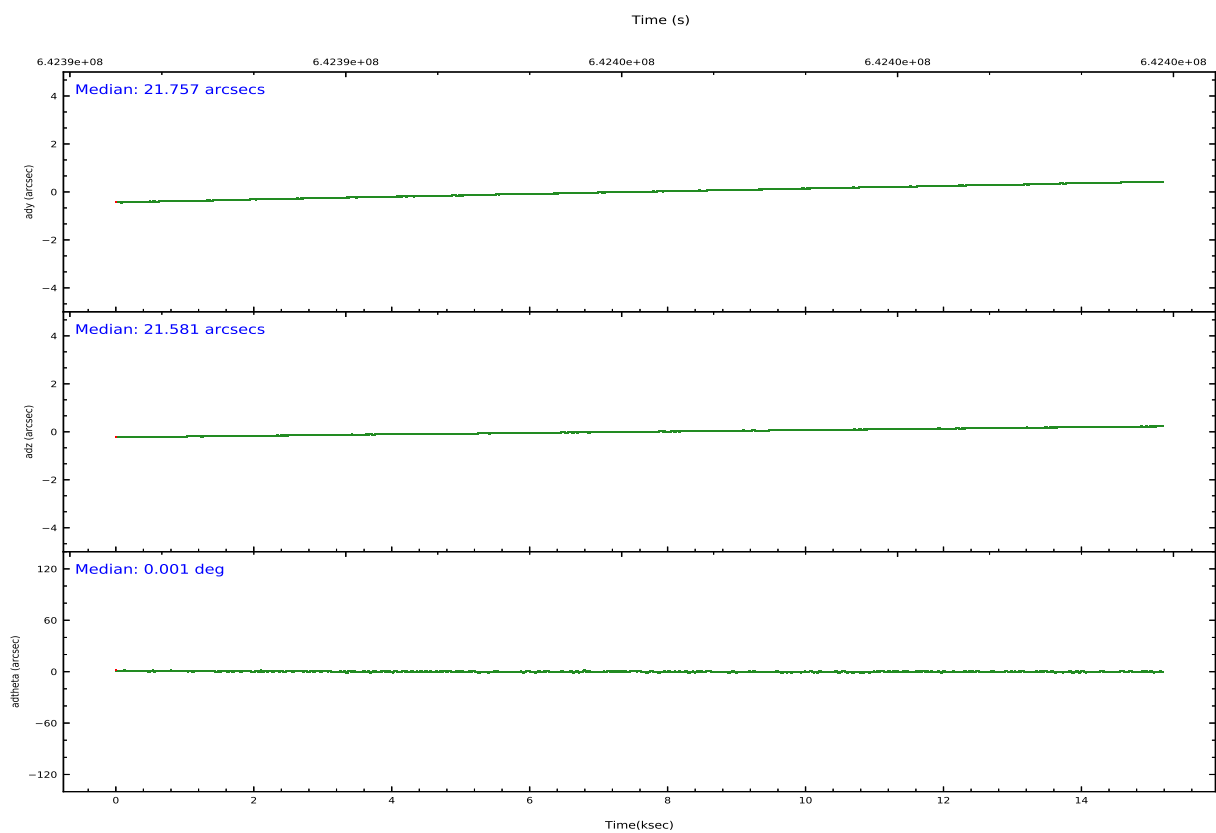
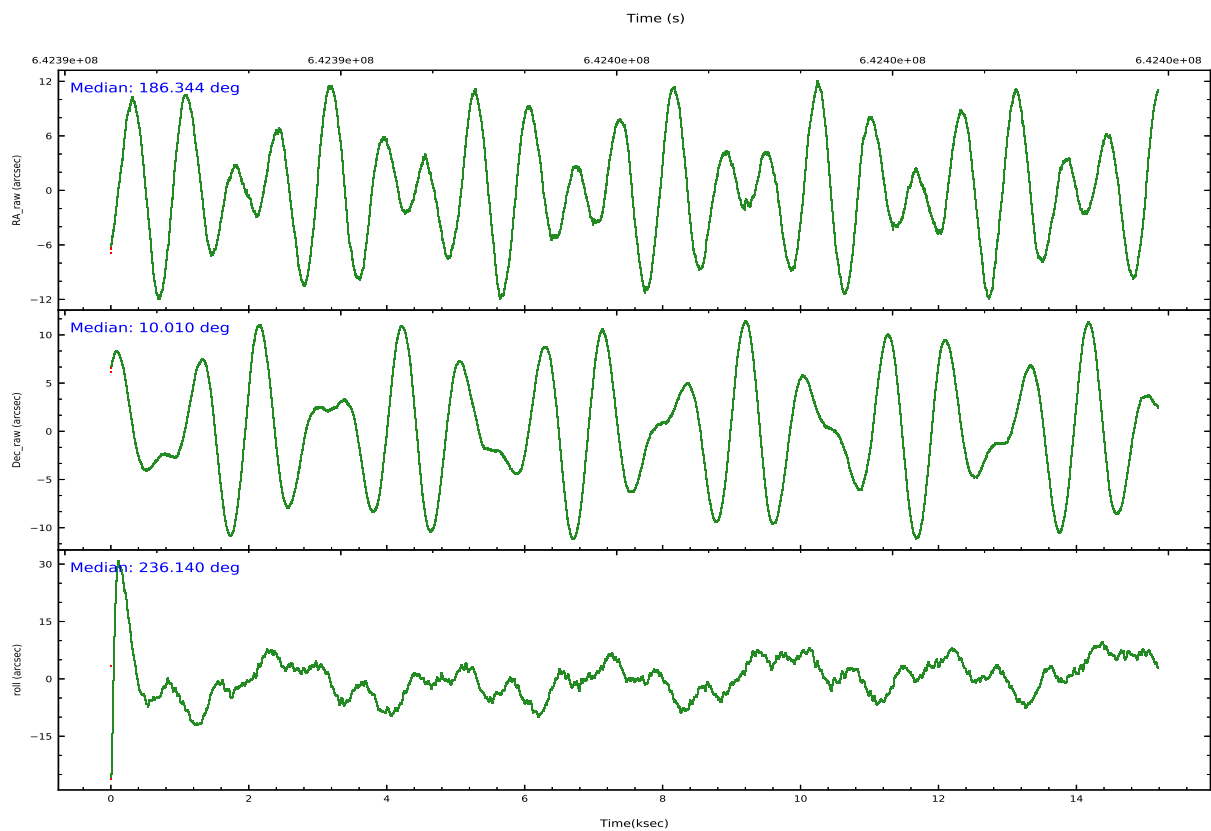
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	5762	5475	5259	9898
	3%	4%	3%	6%
grade 1 events	441	2651	184	96
	0%	2%	0%	0%
grade 2 events	25899	3236	12549	8857
	14%	2%	8%	6%
grade 3 events	2437	1136	4824	3756
	1%	0%	3%	2%
grade 4 events	2326	1090	4801	3507
	1%	0%	3%	2%
grade 5 events	11258	4874	13954	7535
	6%	4%	9%	5%
grade 6 events	47393	3184	33598	10108
	27%	2%	23%	7%
grade 7 events	79496	98340	66353	100258
	45%	81%	46%	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	186.345267	186.34212088826	Subarray requested	NONE	NONE
[deg] Pointing Dec	10.036756	10.01809410396	Alternating exposures requested	N	N
[deg] Pointing Roll	235.985292	236.13977670772	[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)	642388850.184000	642388446.65194			
Observation start date	2018-05-11T01:19:41	2018-05-11T01:14:06			
[s] Observation end time (MET)	642403850.184000	642404868.17791			
Observation end date	2018-05-11T05:29:41	2018-05-11T05:47:48			
Read mode	TIMED	TIMED			

2.3 Aspect



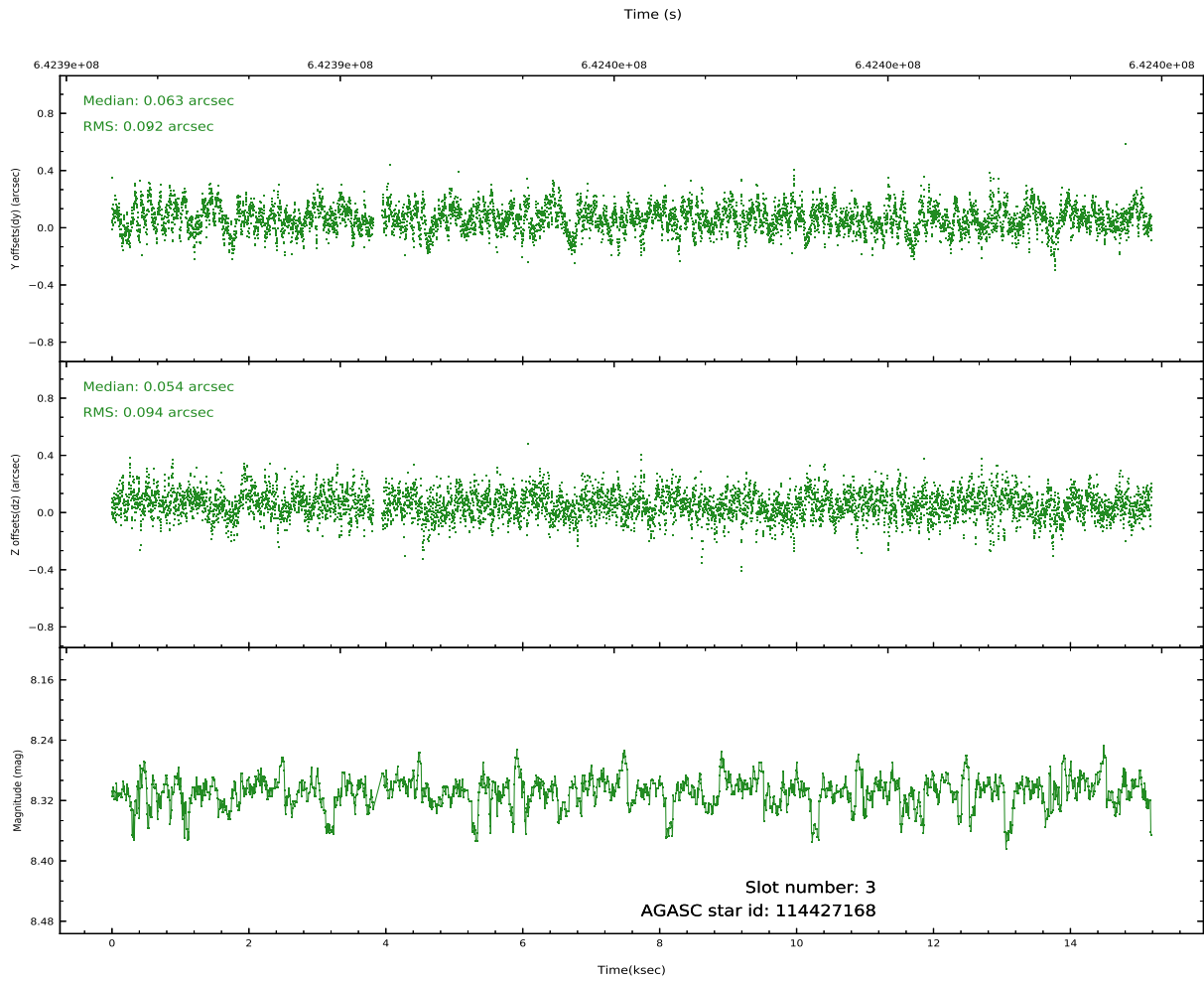
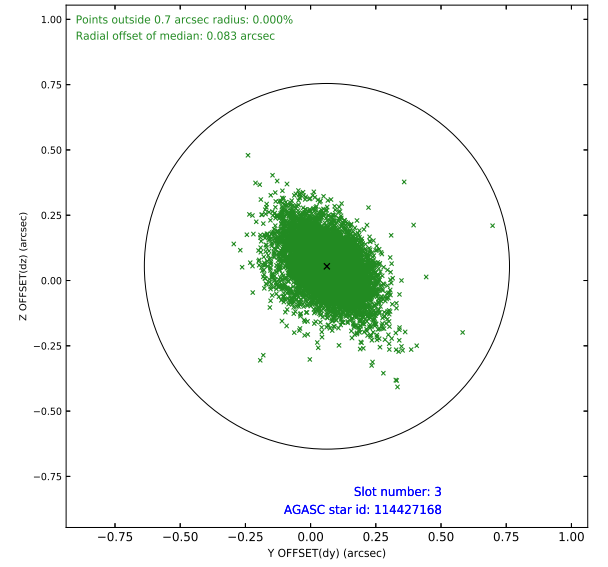
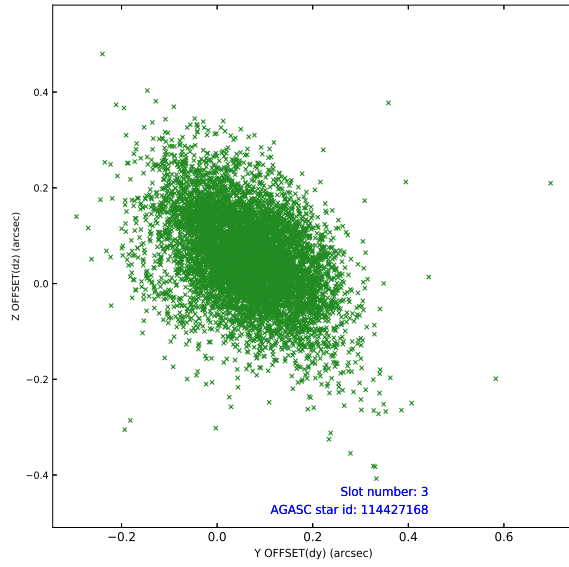


Slot Statistics

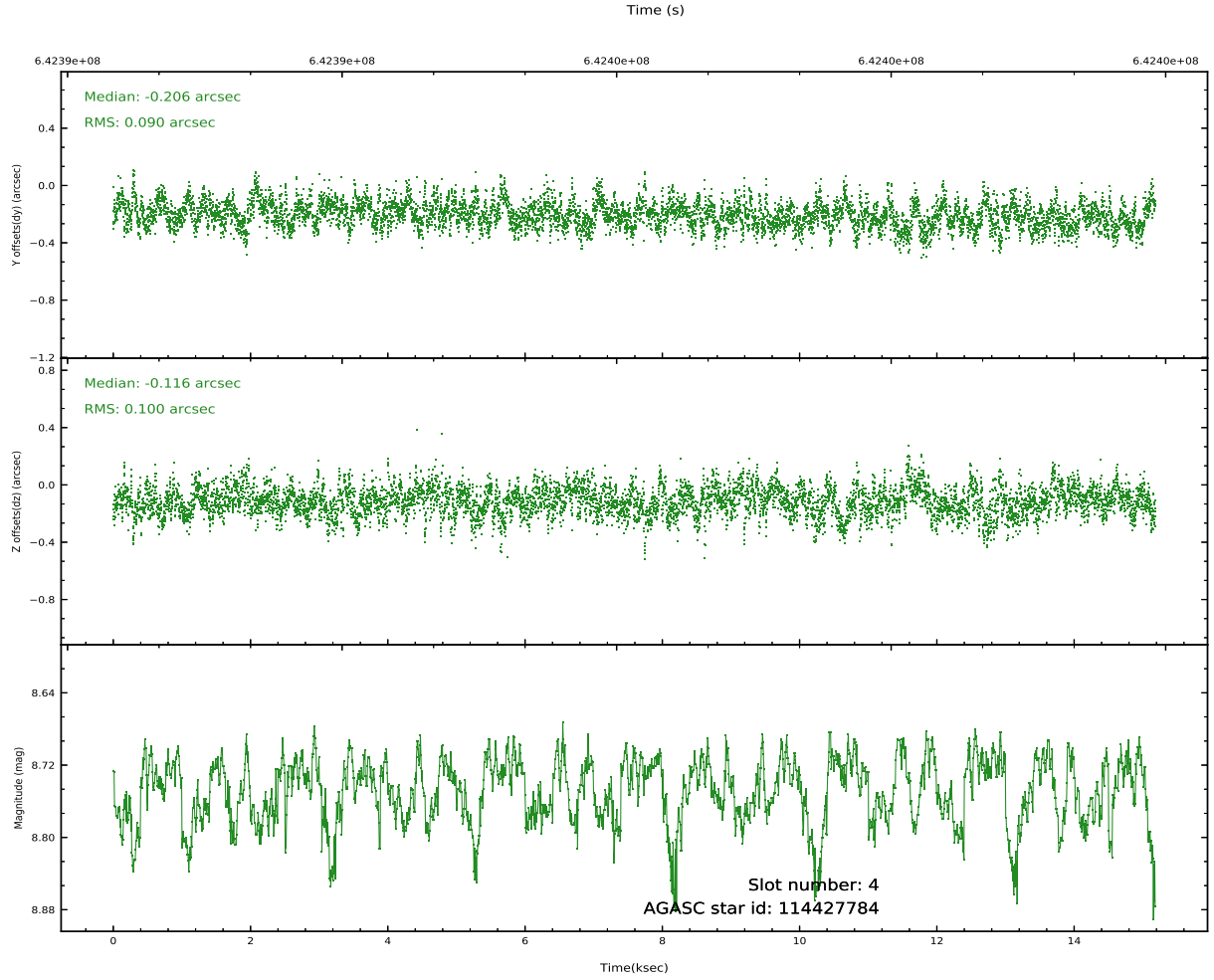
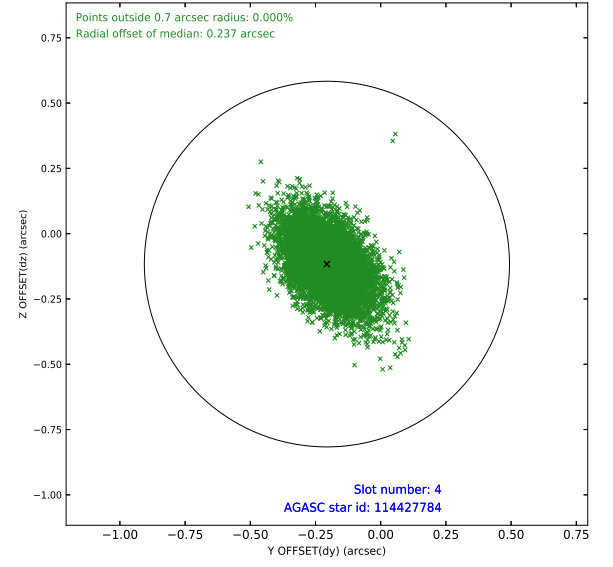
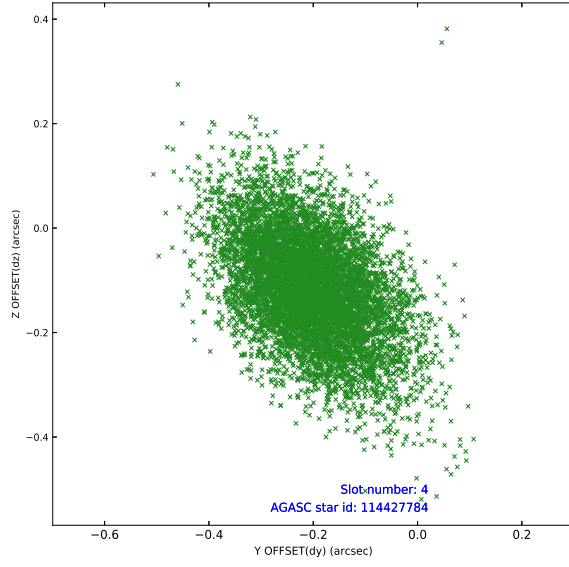
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.23	3704	1.000	0.328	-0.230	0.011	0.016	0.000000	0.000000	921.25	-1739
1	FID		ACIS-S-5	7.25	3704	1.000	-0.237	0.265	0.012	0.020	0.000000	0.000000	-1827.93	158
2	FID		ACIS-S-6	7.41	3704	1.000	-0.113	-0.022	0.013	0.023	0.000000	0.000000	386.33	802
3	GUIDE	used	114427168	8.31	7341	1.000	0.063	0.054	0.135	0.235	185.592494	9.942686	1772.50	-2024
4	GUIDE	used	114427784	8.75	7401	1.000	-0.206	-0.116	0.138	0.237	186.068583	9.508052	2127.85	249
5	GUIDE	used	114428136	8.15	7405	1.000	0.247	-0.063	0.217	0.367	185.561194	9.845825	2124.43	-1922
6	GUIDE	used	114823840	9.12	7401	1.000	0.011	-0.004	0.292	0.451	186.195871	10.717151	-1731.81	-1809
7	GUIDE	used	114957648	9.51	7395	1.000	-0.104	0.133	0.189	0.306	186.459555	10.641928	-2029.42	-885

2.4 Star Slots

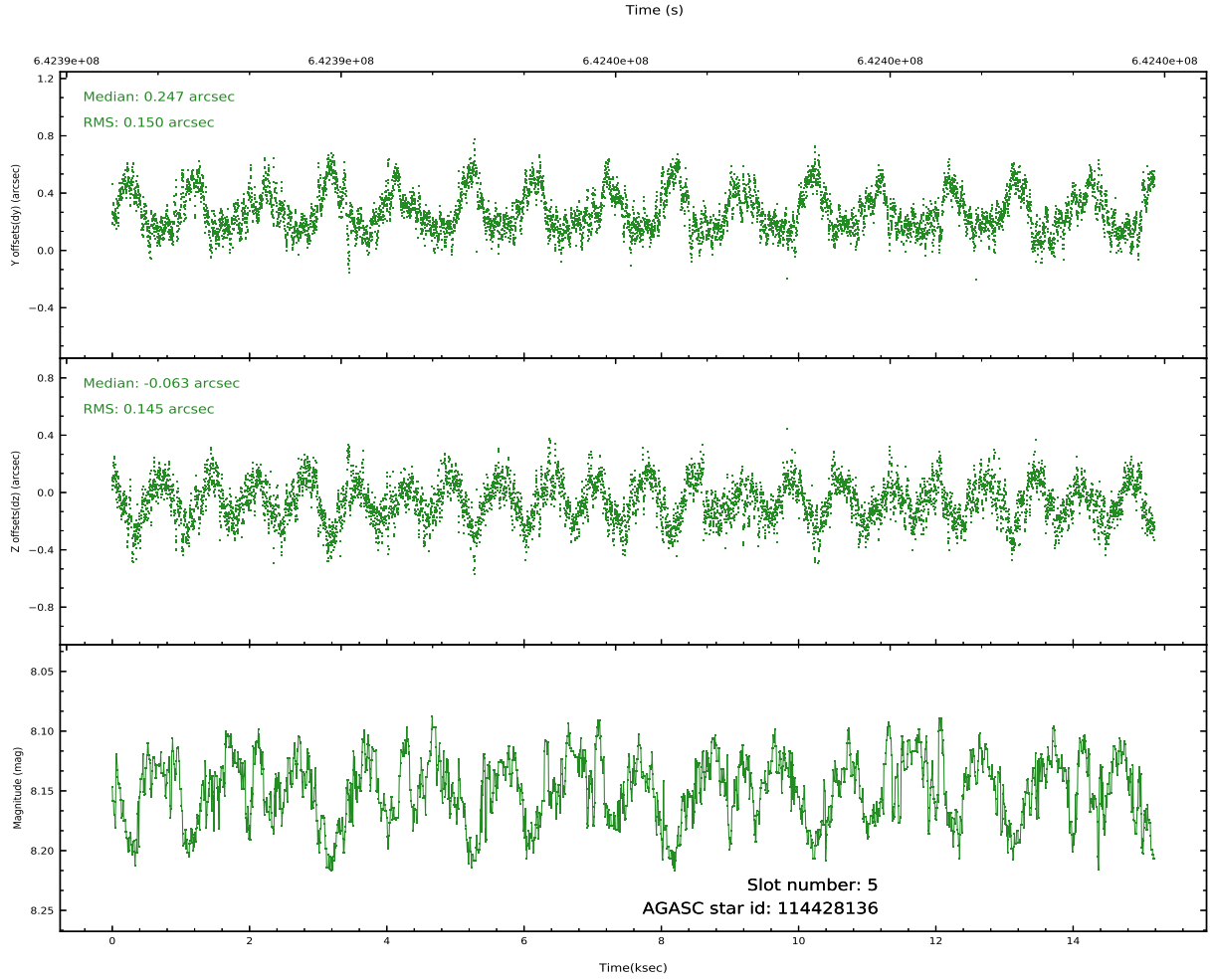
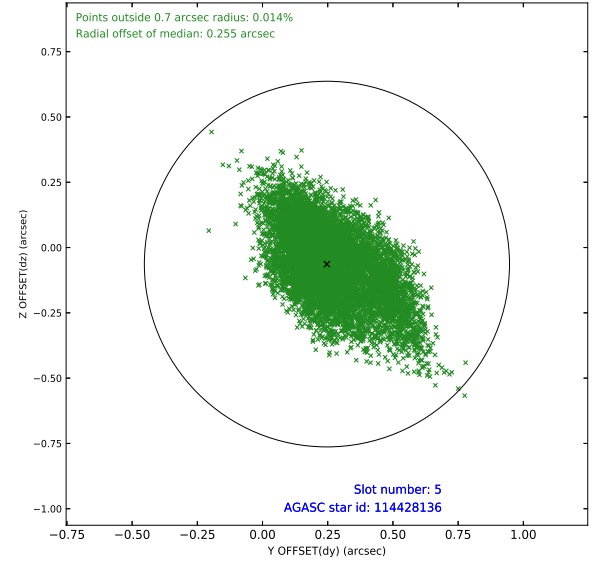
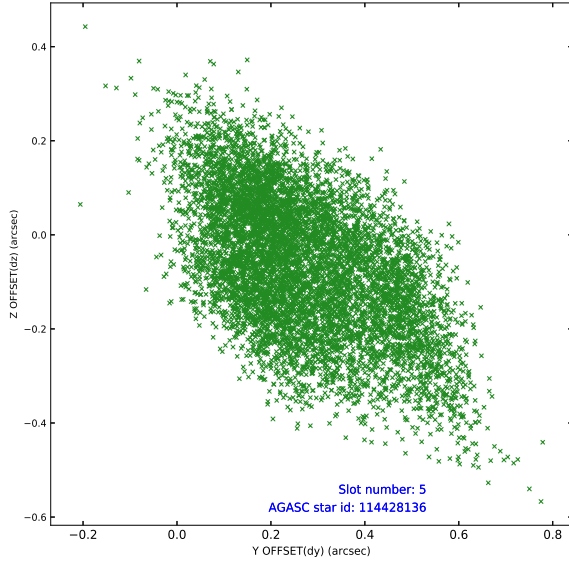
2.4.1 Slot 3



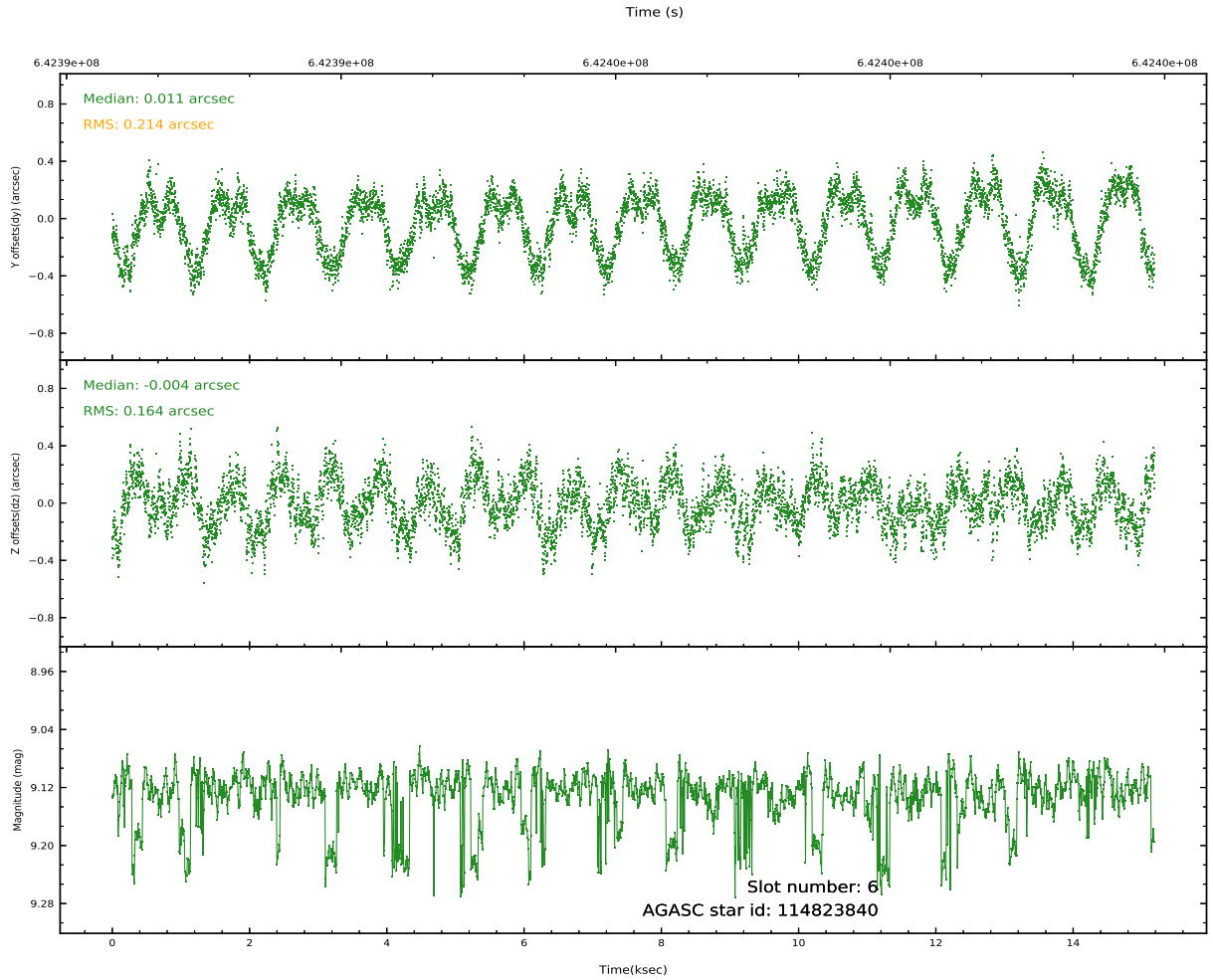
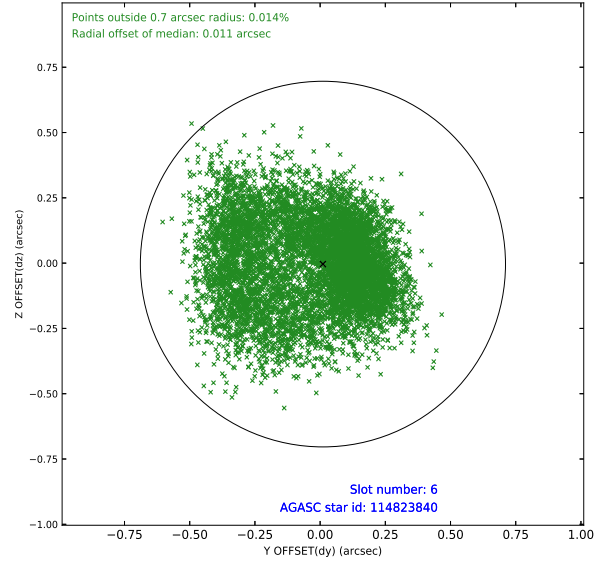
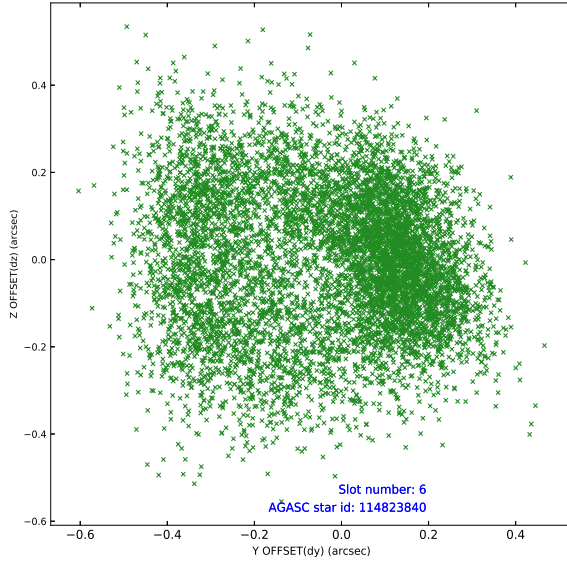
2.4.2 Slot 4



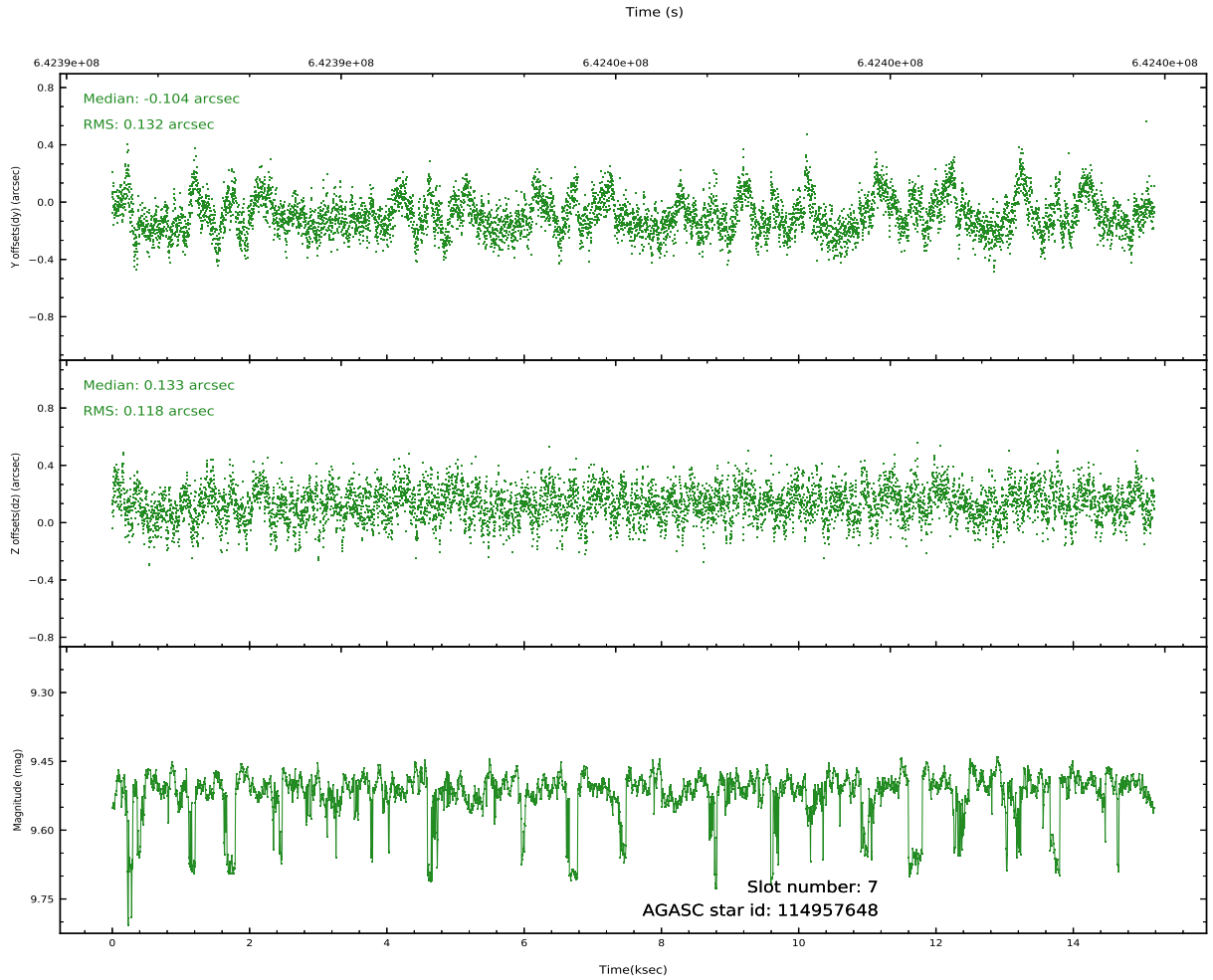
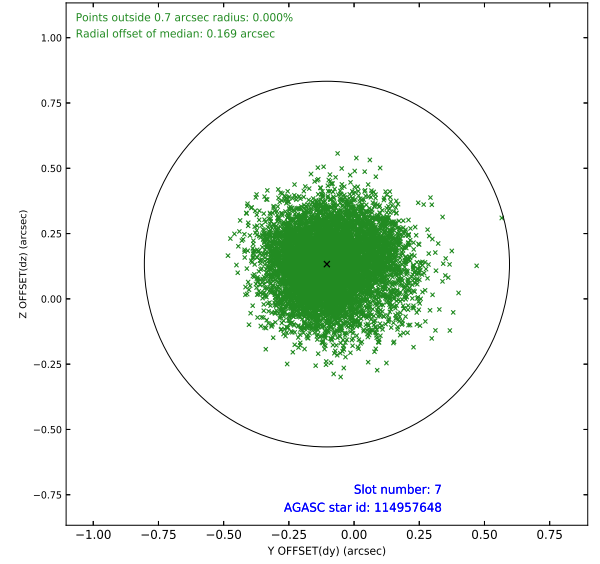
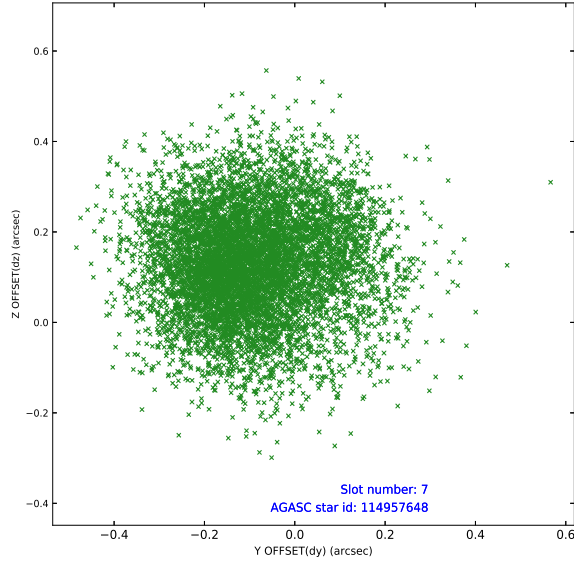
2.4.3 Slot 5



2.4.4 Slot 6

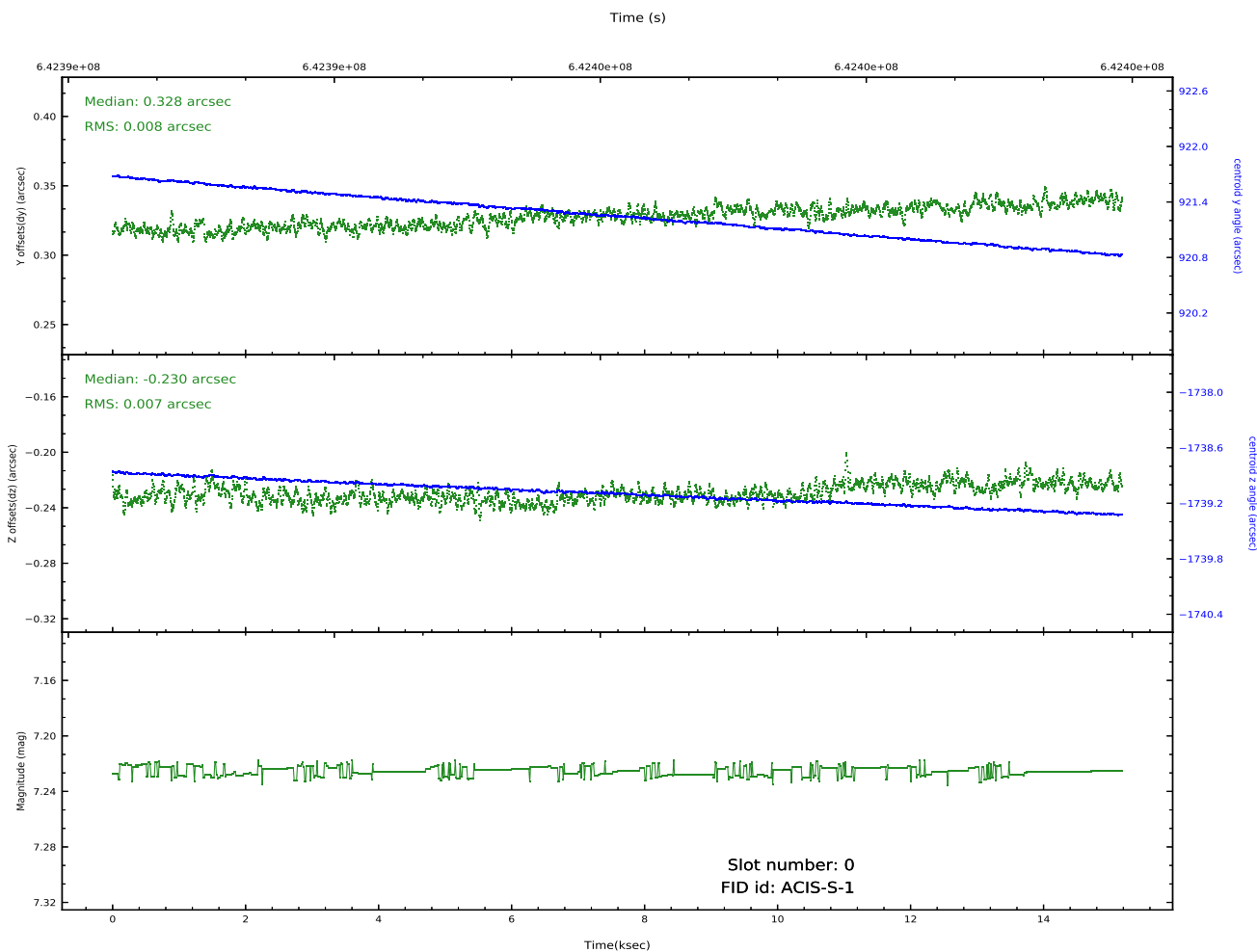
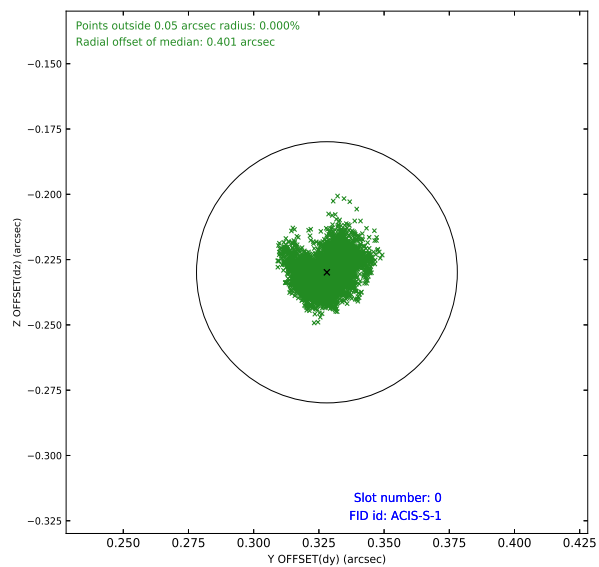
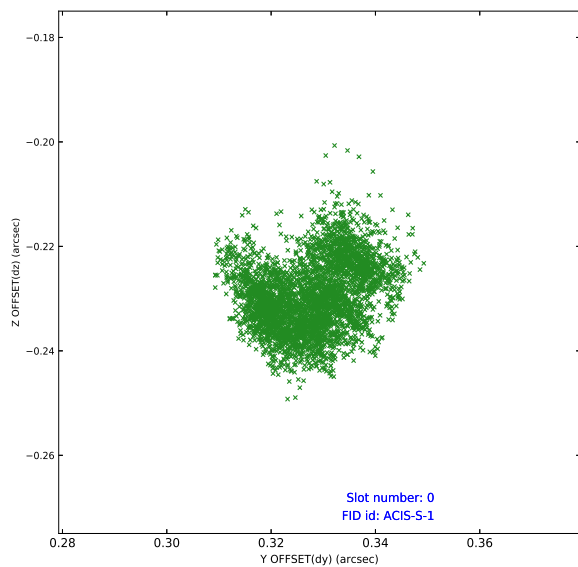


2.4.5 Slot 7

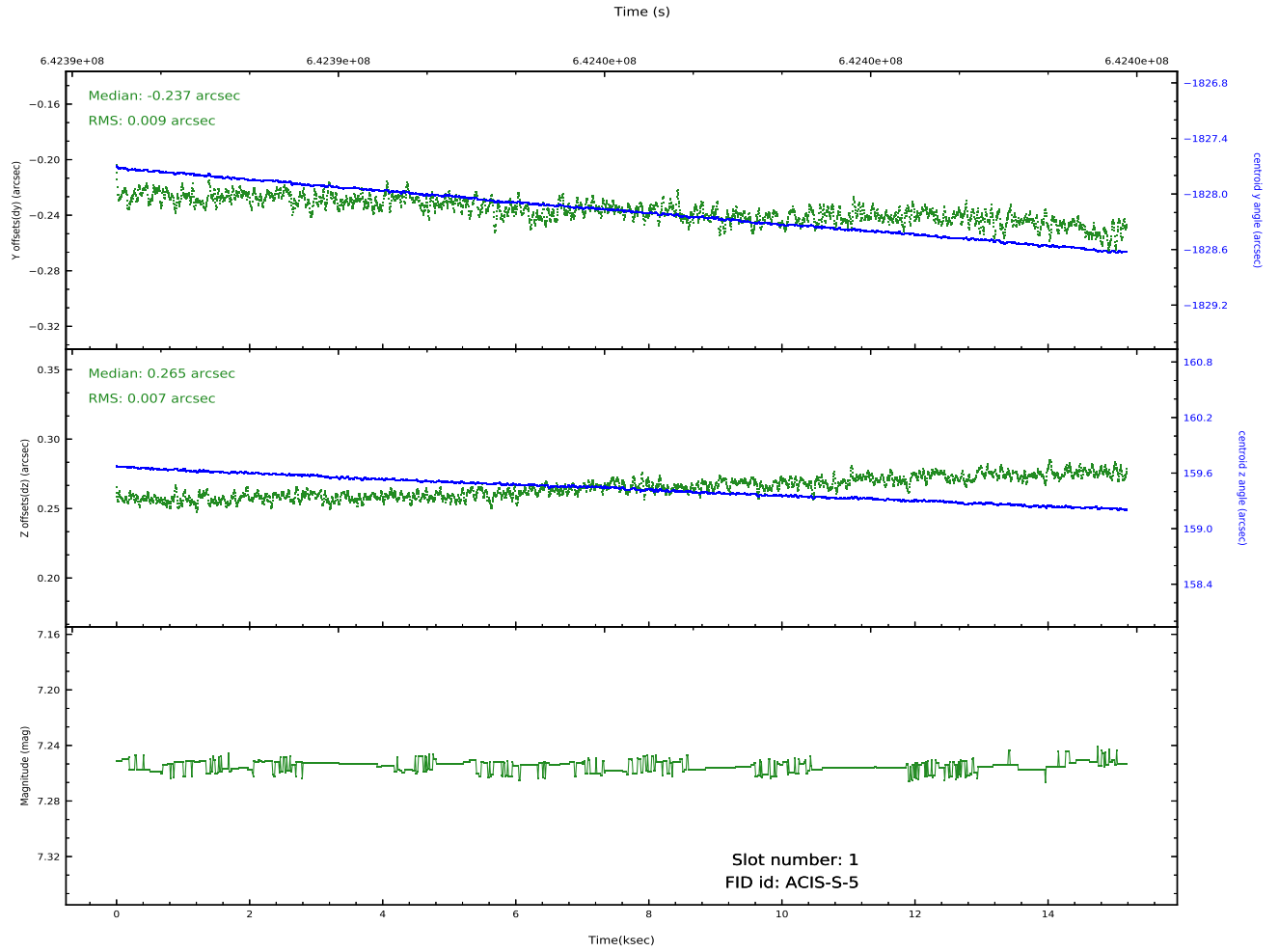
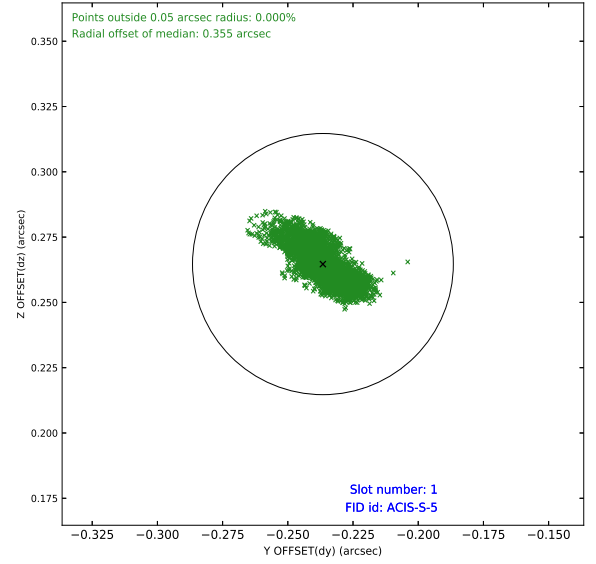
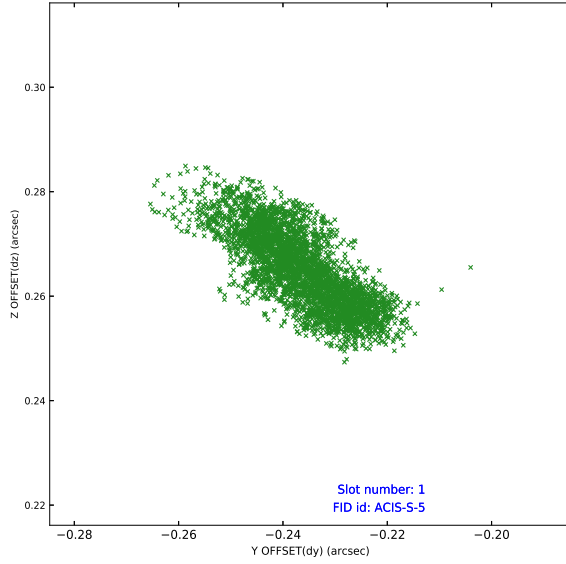


2.5 FID Slots

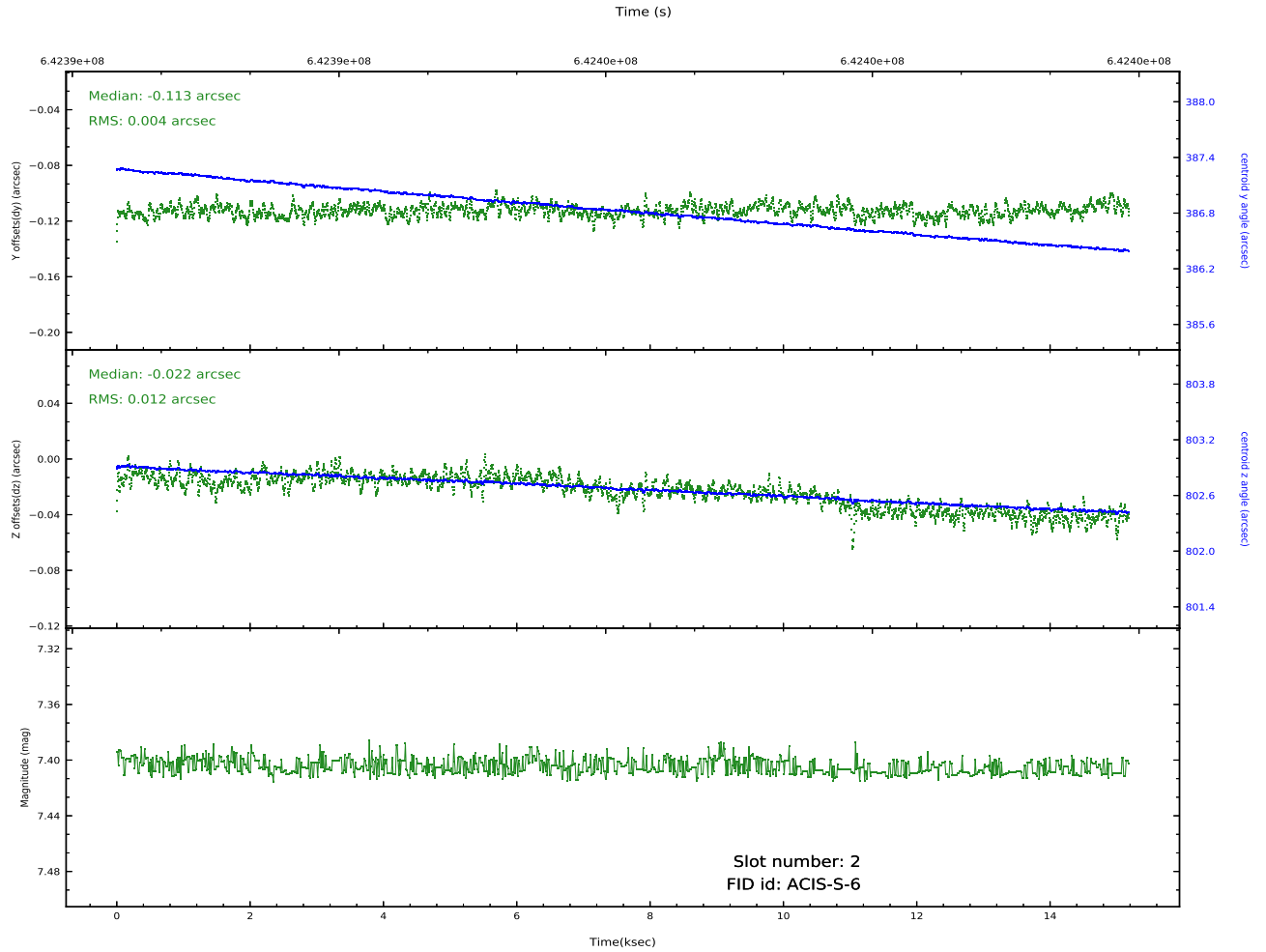
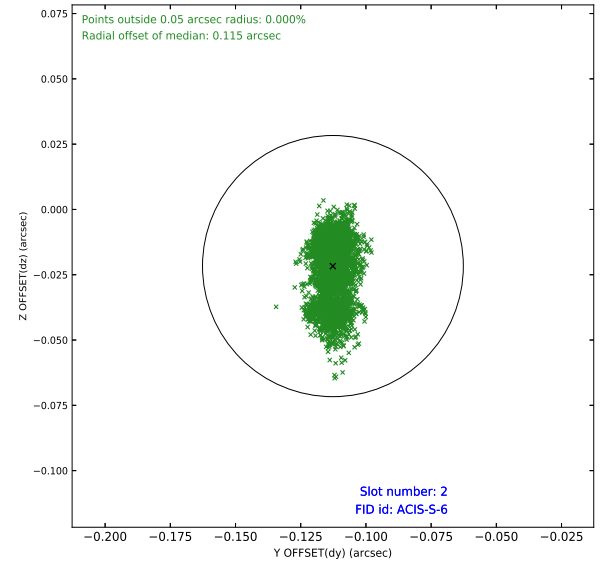
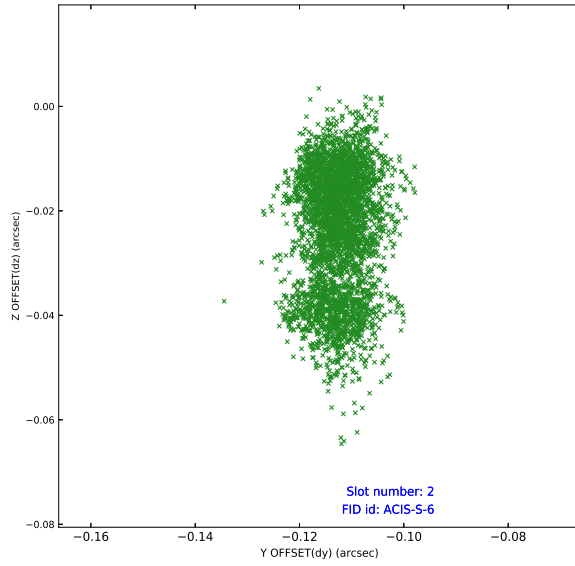
2.5.1 Slot 0



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)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.907465704322

A.2 Comments