

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19164 - L2 Version 2
Chandra X-Ray Center

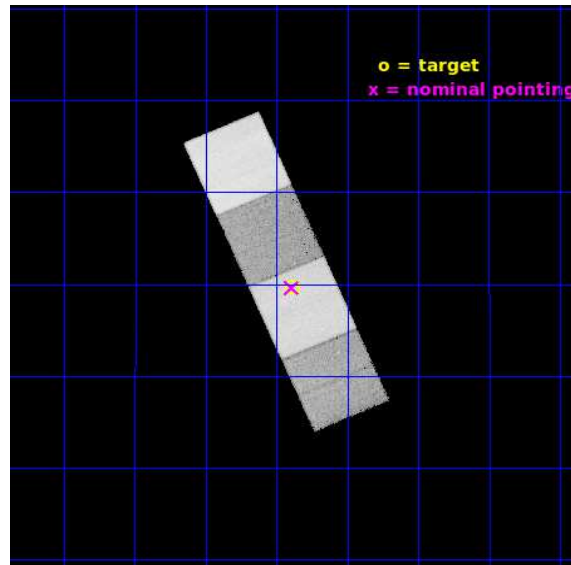
L2 Processing Date : Oct 24 2020

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1 Front

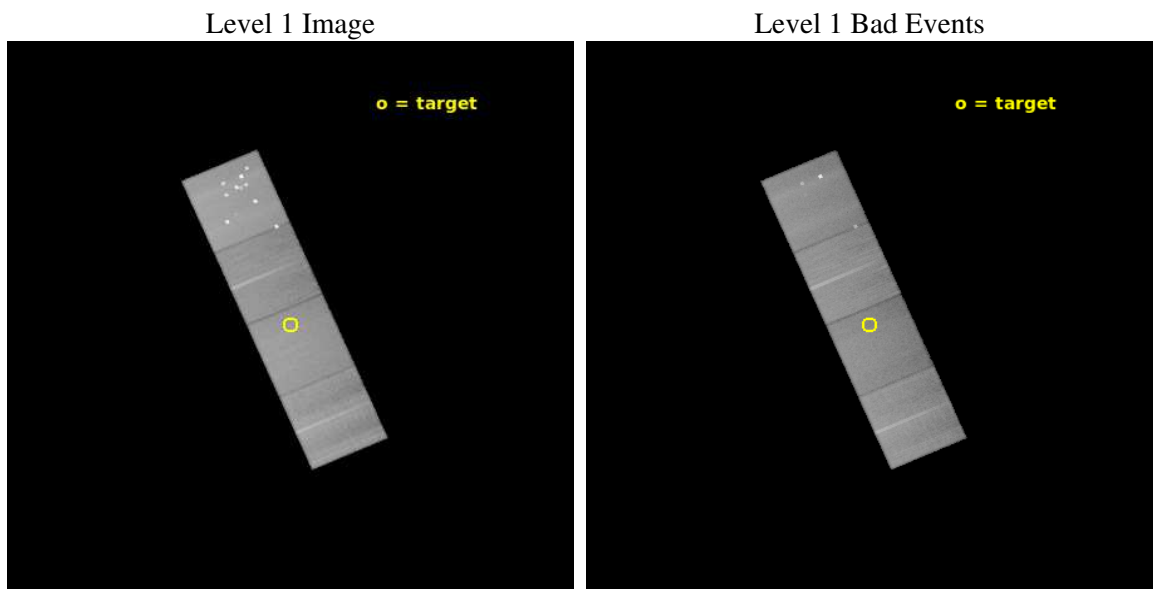
seq_num	502814	Sequence number
obs_id	19164	Observation id
title	Continued study of the remarkable X-ray evolution of SN 2010jl	Pro
observer	Poonam Chandra	Principal investigator
object	SN 2010jl	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	145.7222	Observer's specified target RA [deg]
dec_targ	9.495037	Observer's specified target Dec [deg]
ra_nom	145.72302084328	Nominal RA [deg]
dec_nom	9.4939068529442	Nominal Dec [deg]
roll_nom	66.479471849229	Nominal Roll [deg]
revision	2	Processing version of data
ontime	47399.000364661	Sum of GTIs [s]
livetime	46779.69753026	Livetime [s]
ontime5	47399.000364661	Sum of GTIs [s]
ontime6	47392.71820426	Sum of GTIs [s]
ontime7	47399.000364661	Sum of GTIs [s]
ontime8	47389.57423842	Sum of GTIs [s]
l2events	498609	Number of level 2 events



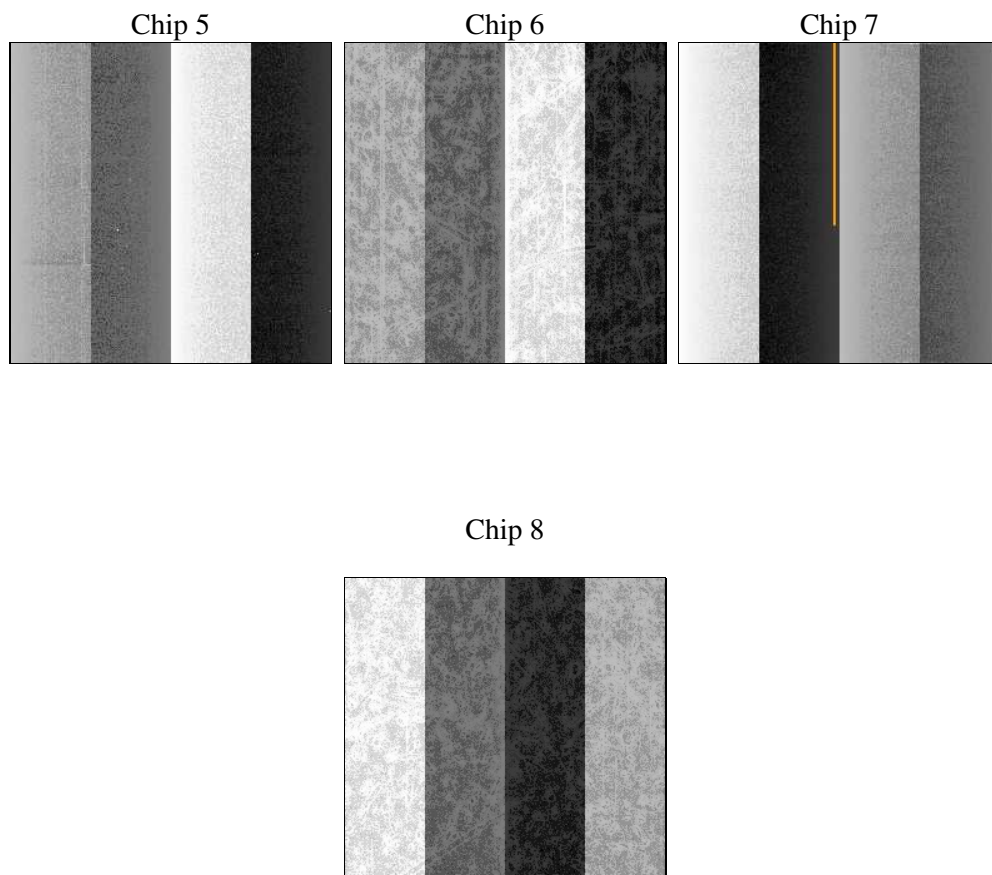
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	47340.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	47399.000364661	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	47399.000364661	Sum of GTIs [s]
date	2020-10-24T04:58:35	Date and time of file creation	ontime6	47392.71820426	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	47399.000364661	Sum of GTIs [s]
			ontime8	47389.57423842	Sum of GTIs [s]
			l1events	1890501	Number of level 1 events

2.1.4 Events

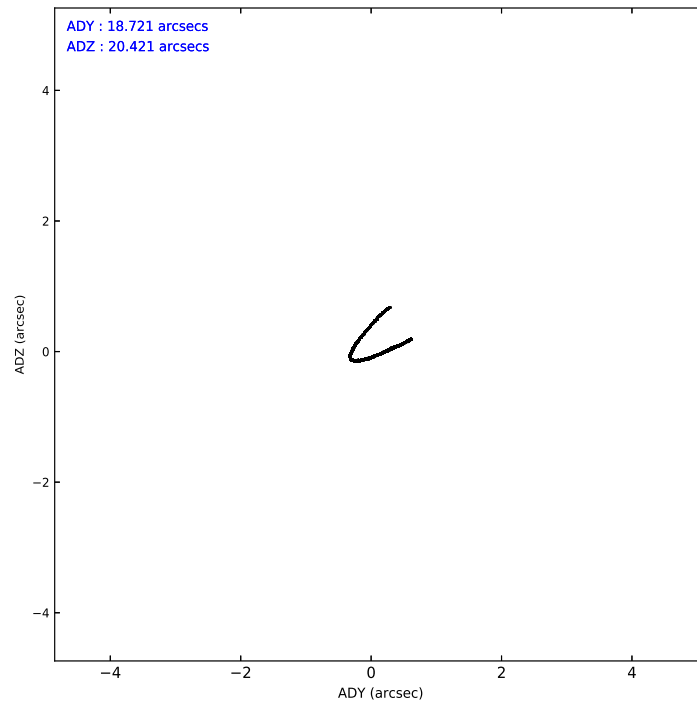
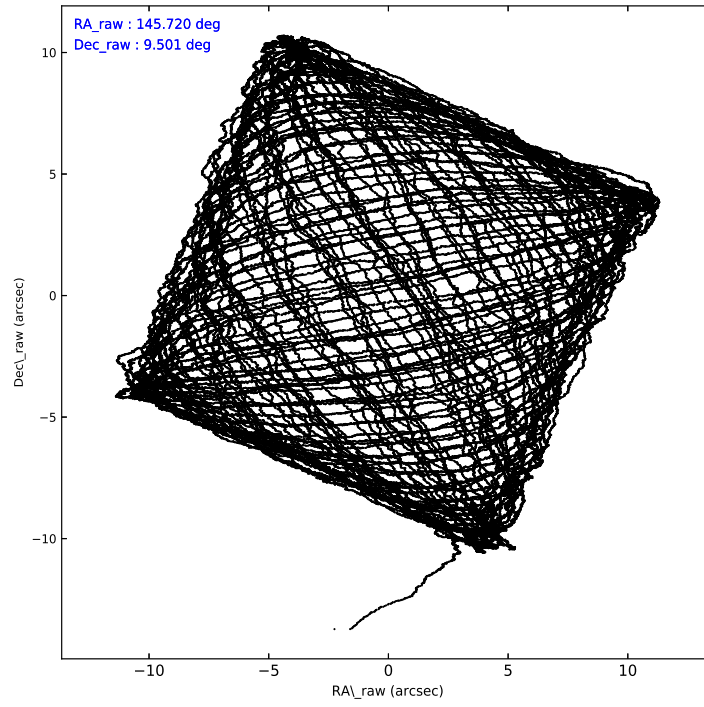
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	643156	361424	438322	447599
rejected events	302273	323554	249097	335512
rejected %	46%	89%	56%	74%

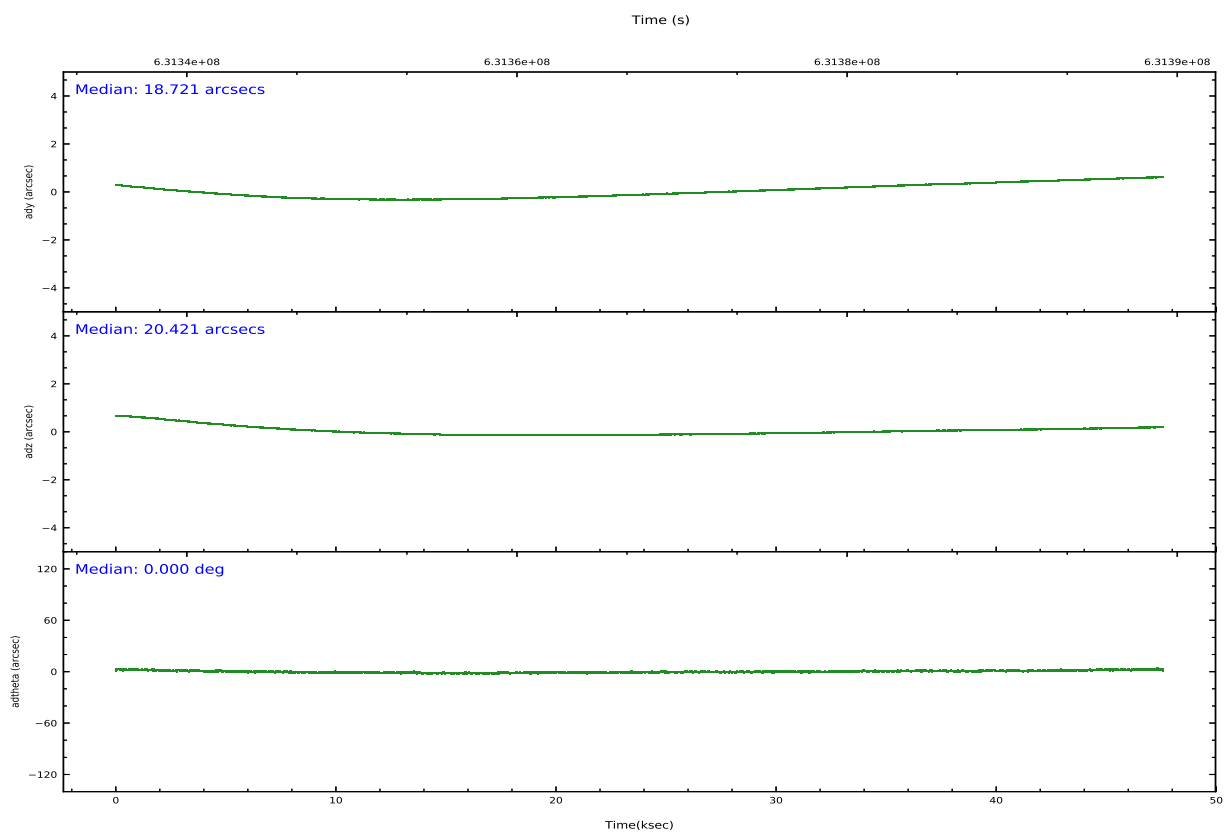
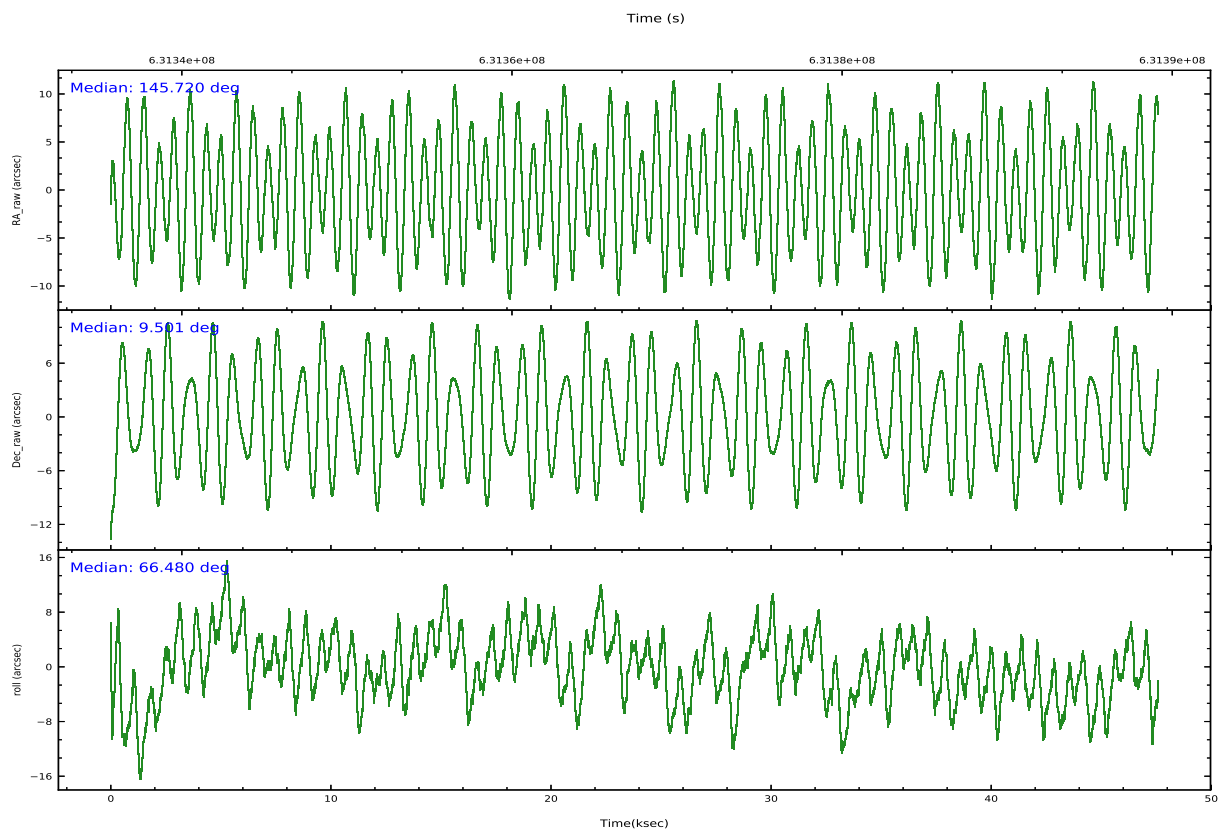
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	75290	11429	15725	30194
	11%	3%	3%	6%
grade 1 events	1565	152	620	321
	0%	0%	0%	0%
grade 2 events	95528	9769	39222	27721
	14%	2%	8%	6%
grade 3 events	11009	3391	14860	11415
	1%	0%	3%	2%
grade 4 events	11412	3353	14884	10637
	1%	0%	3%	2%
grade 5 events	37510	15062	42856	23770
	5%	4%	9%	5%
grade 6 events	147727	9933	104553	32129
	22%	2%	23%	7%
grade 7 events	263115	308335	205602	311412
	40%	85%	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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	145.723182	145.72302084328	CCD I2 on	N	N
[deg] Pointing Dec	9.473977	9.4939068529442	CCD I3 on	O1	N
[deg] Pointing Roll	66.327489	66.479471849229	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	631342019.184000	631341104.65066	CCD S5 on	N	N
Observation start date	2018-01-03T04:45:50	2018-01-03T04:31:44	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	631389359.184000	631390393.82856	On-chip summing requested	N	N
Observation end date	2018-01-03T17:54:50	2018-01-03T18:13:13	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



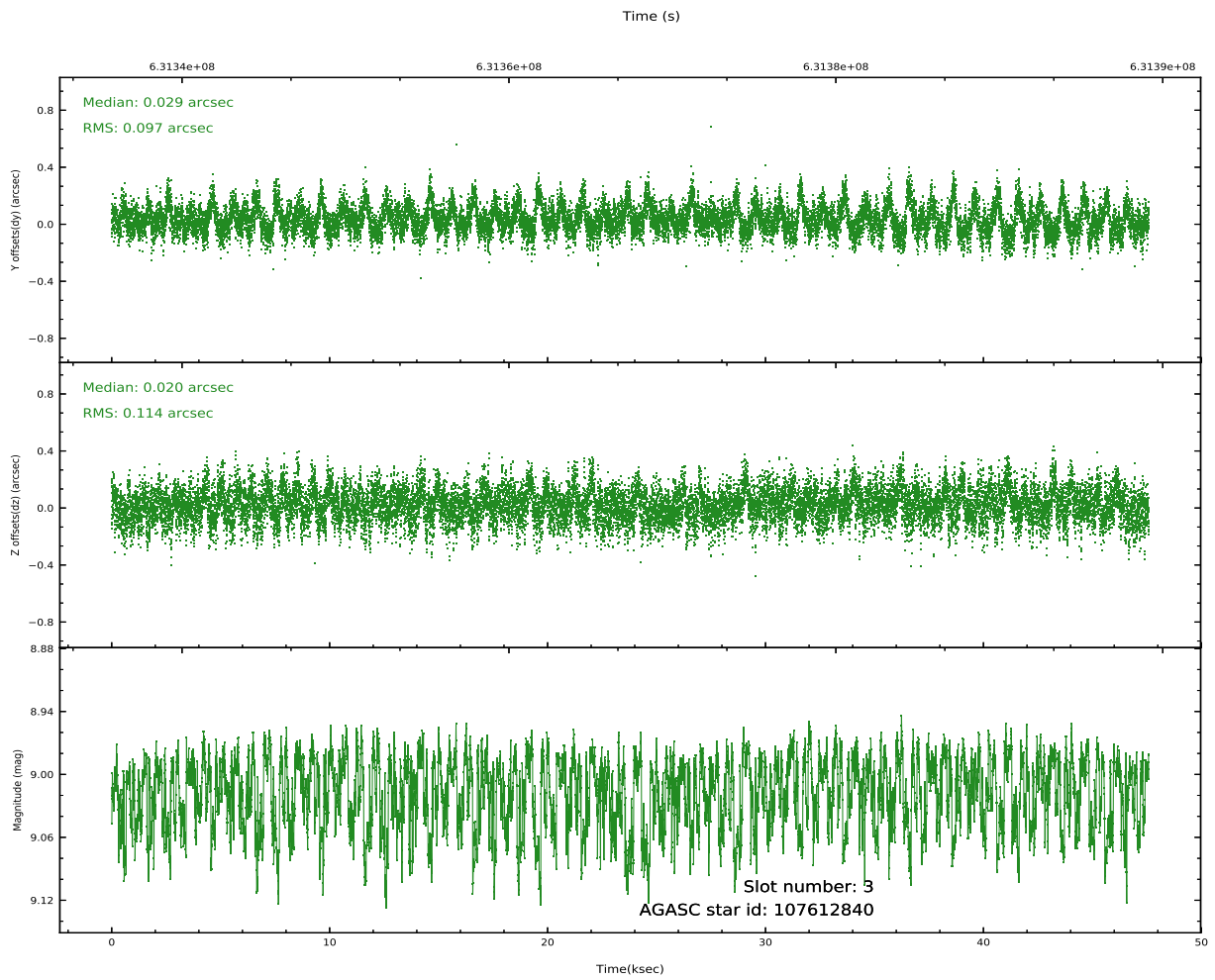
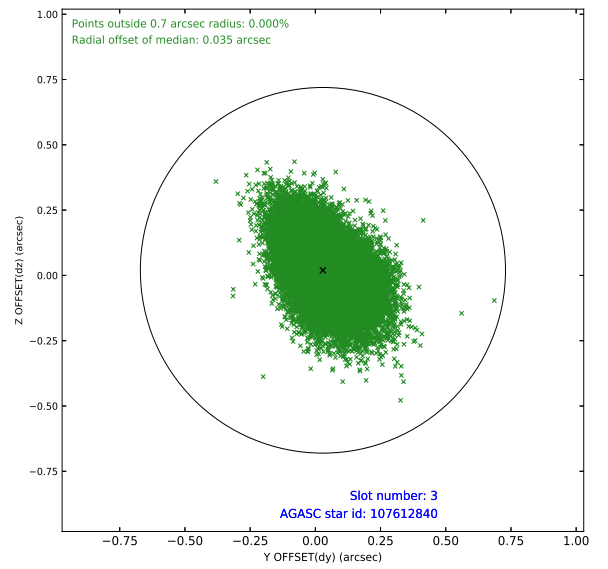
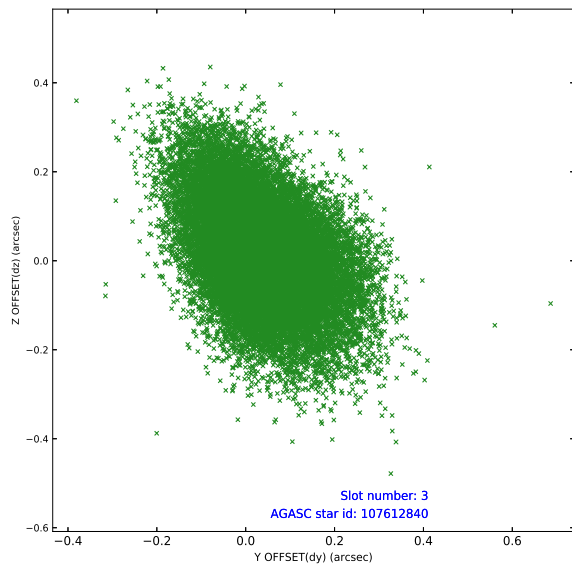


Slot Statistics

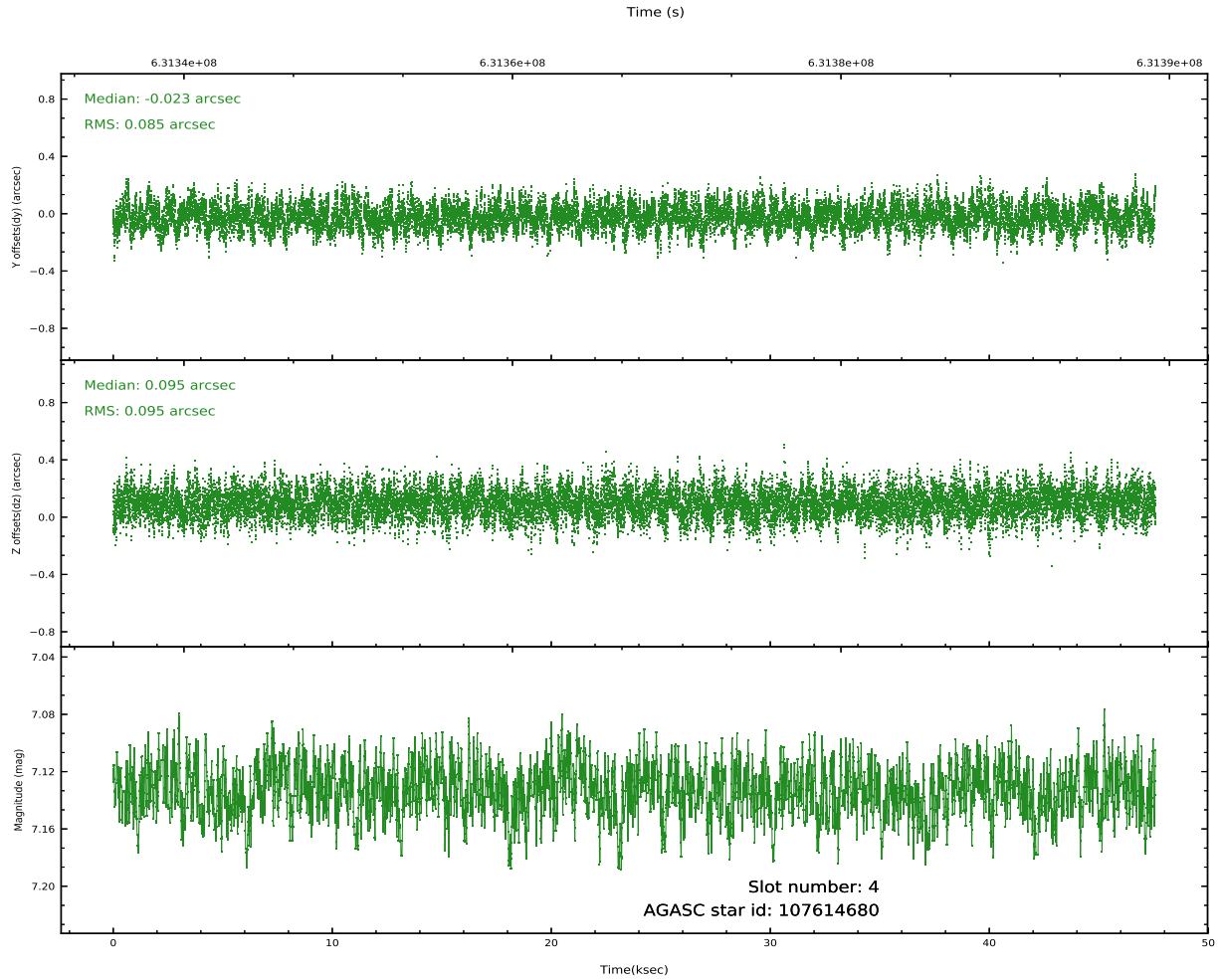
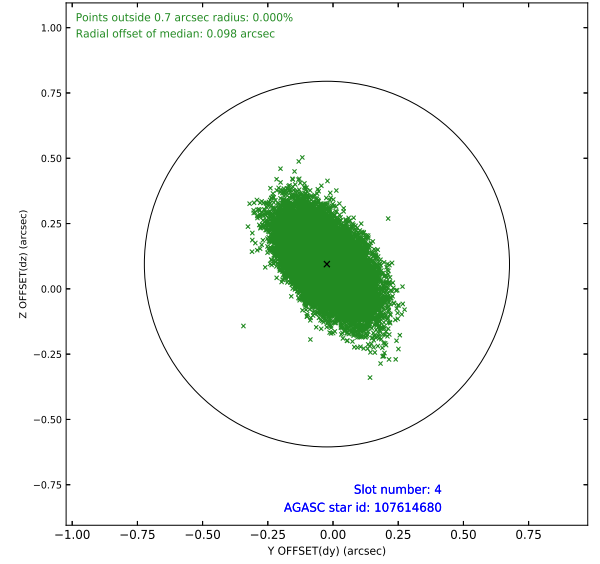
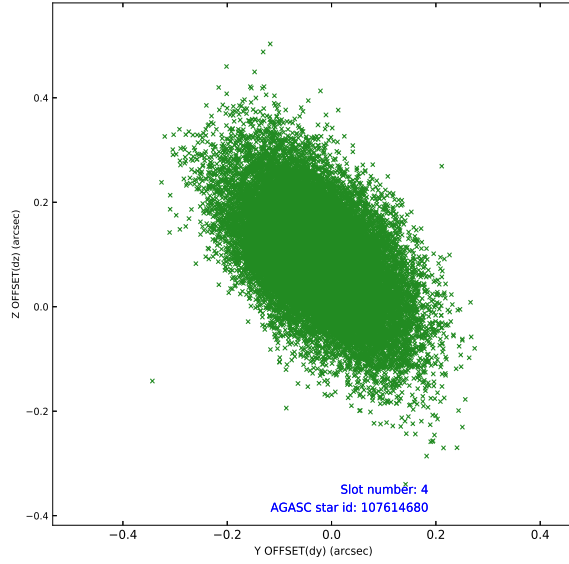
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.21	11605	1.000	0.323	-0.231	0.011	0.018	0.000000	0.000000	924.35	-1737
1	FID		ACIS-S-5	7.22	11607	1.000	-0.294	0.242	0.008	0.019	0.000000	0.000000	-1825.08	160
2	FID		ACIS-S-6	7.37	11606	1.000	-0.050	0.001	0.012	0.020	0.000000	0.000000	389.79	803
3	GUIDE	used	107612840	9.02	23190	1.000	0.029	0.020	0.155	0.267	145.374441	9.465044	-526.25	1122
4	GUIDE	used	107614680	7.13	23211	1.000	-0.023	0.095	0.132	0.229	145.310964	8.995416	-2166.47	651
5	GUIDE	used	107617024	8.31	23128	1.000	-0.058	-0.216	0.145	0.237	145.130994	9.426697	-998.88	1858
6	GUIDE	used	107621824	9.66	23108	1.000	-0.044	-0.227	0.215	0.374	144.988635	9.221581	-1877.88	2026
7	GUIDE	used	108531080	8.71	23192	1.000	0.091	0.330	0.148	0.245	145.751319	8.809136	-2151.77	-1051

2.4 Star Slots

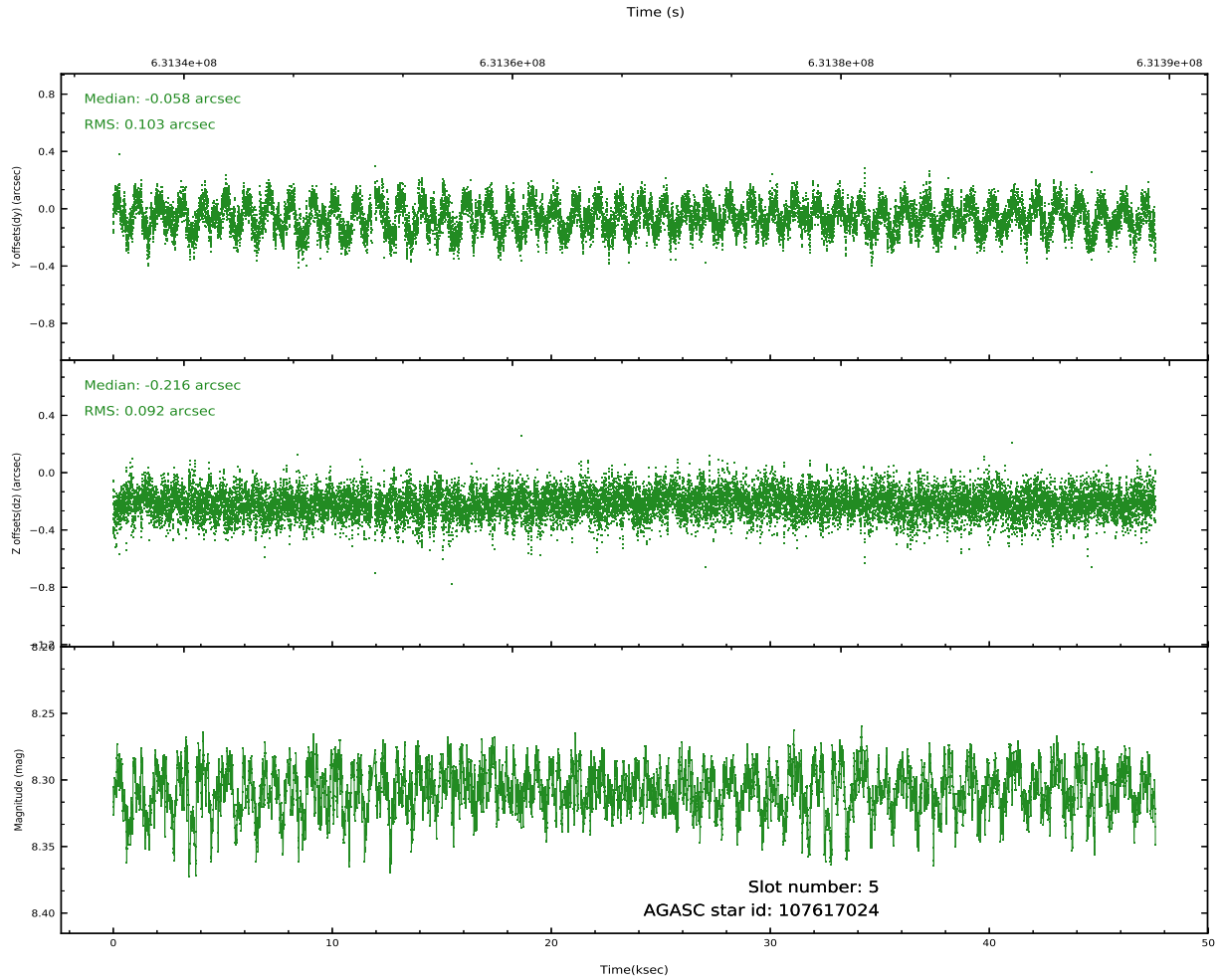
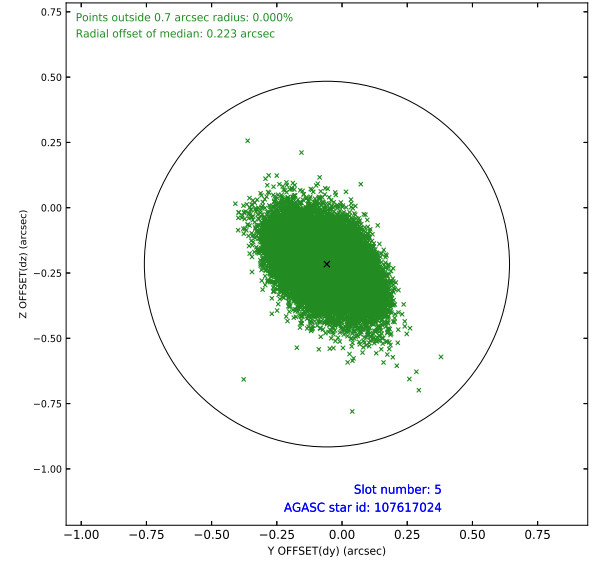
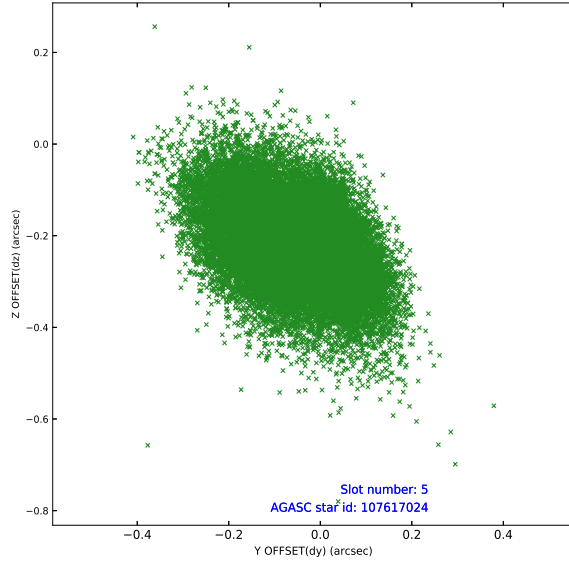
2.4.1 Slot 3



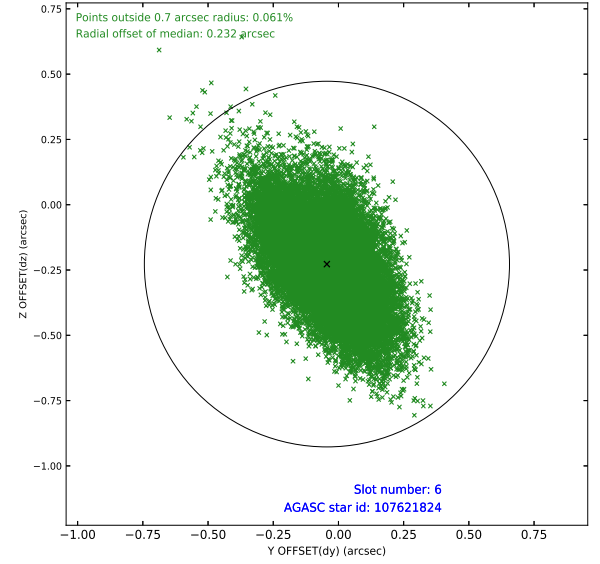
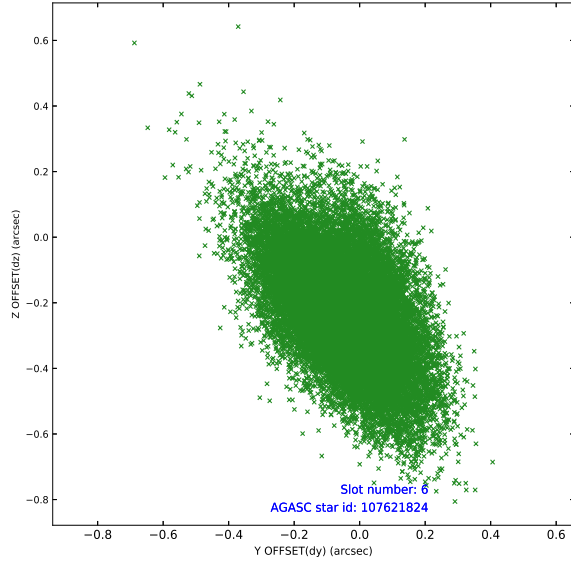
2.4.2 Slot 4



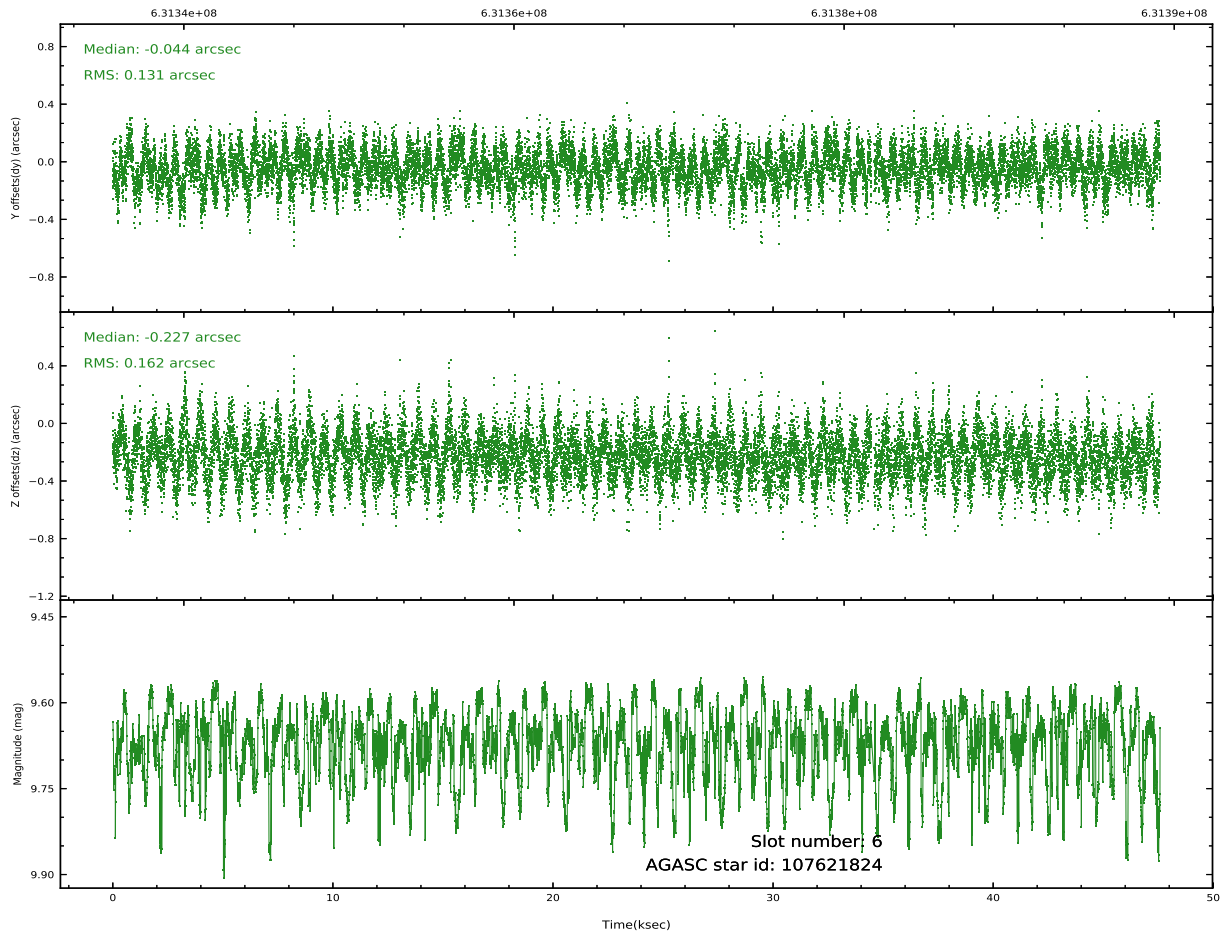
2.4.3 Slot 5



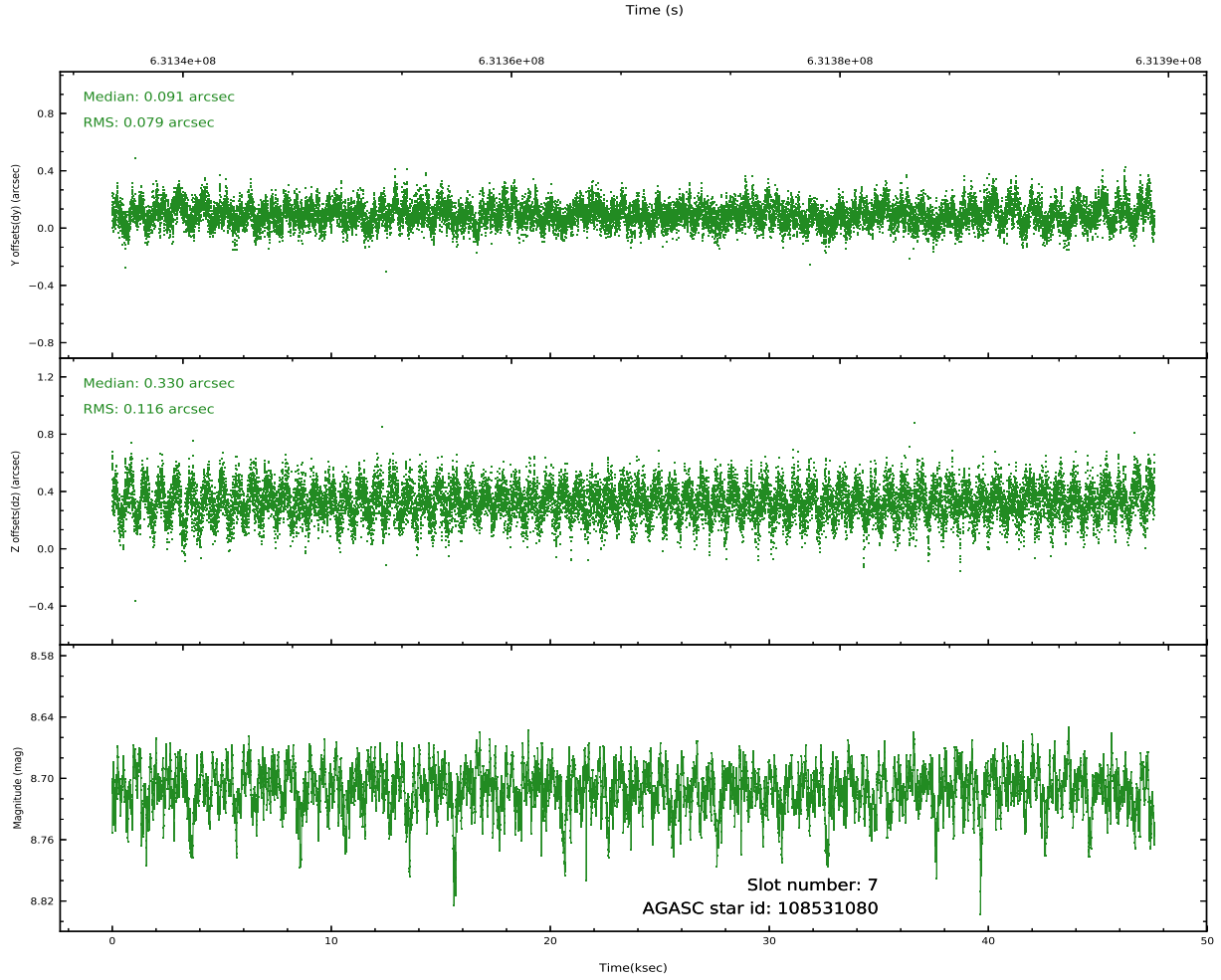
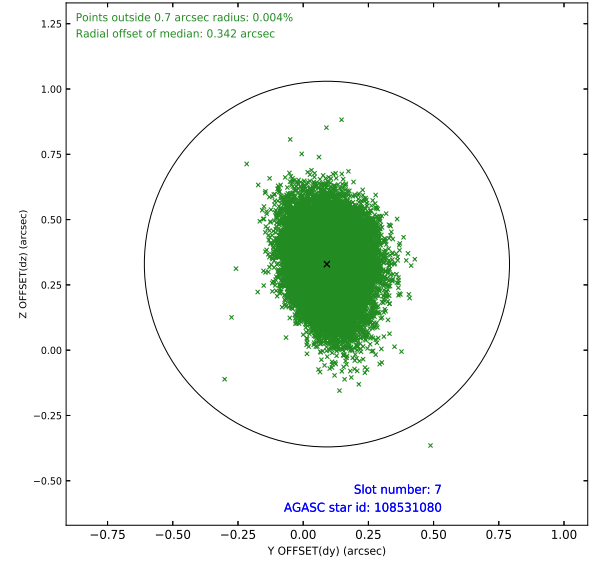
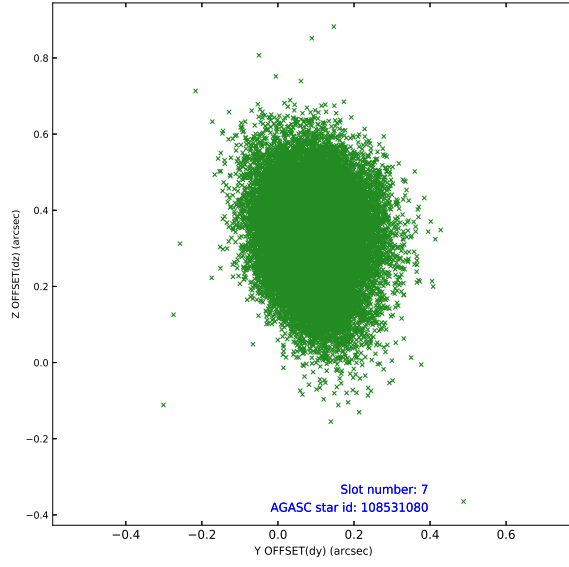
2.4.4 Slot 6



Time (s)

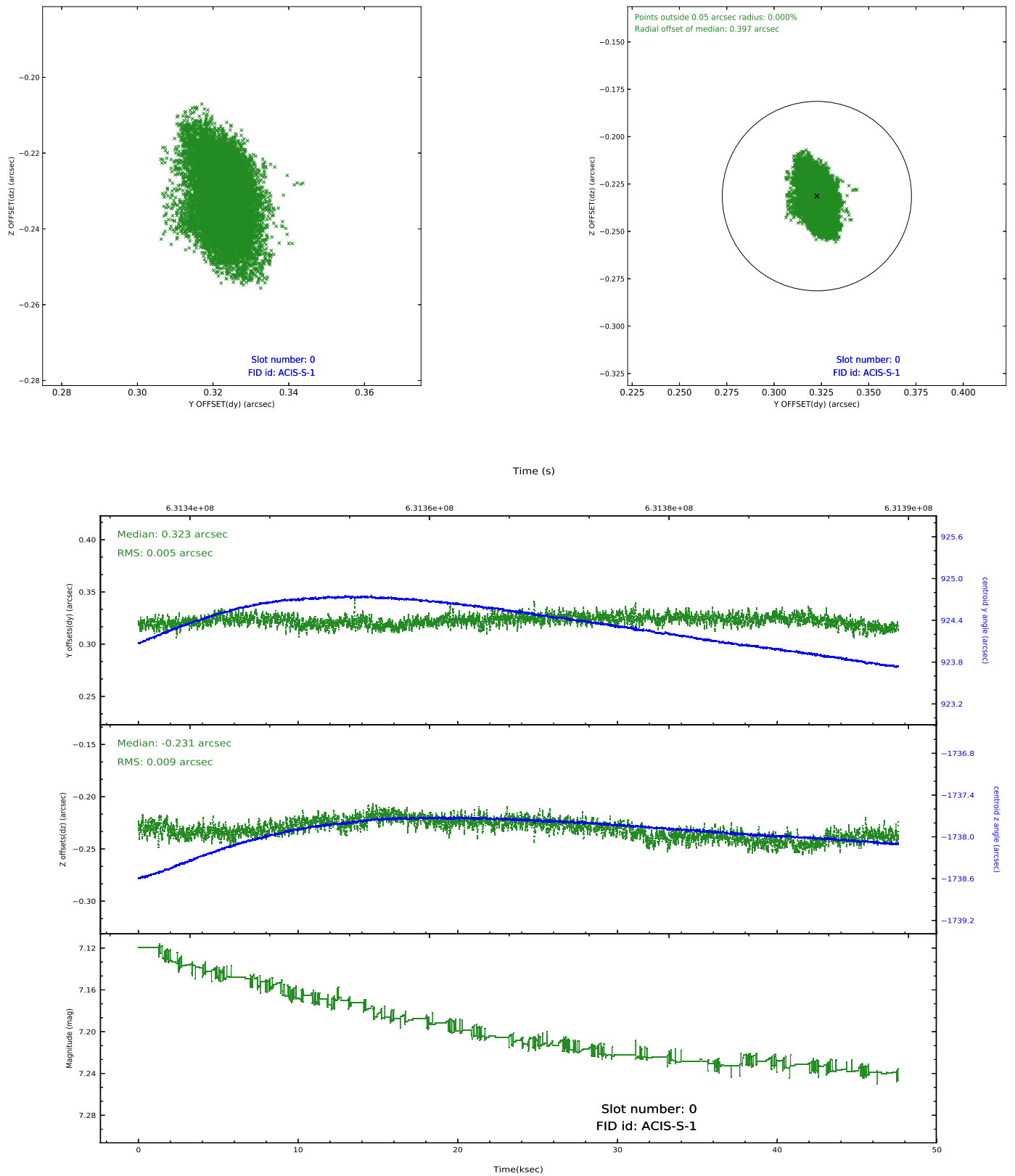


2.4.5 Slot 7

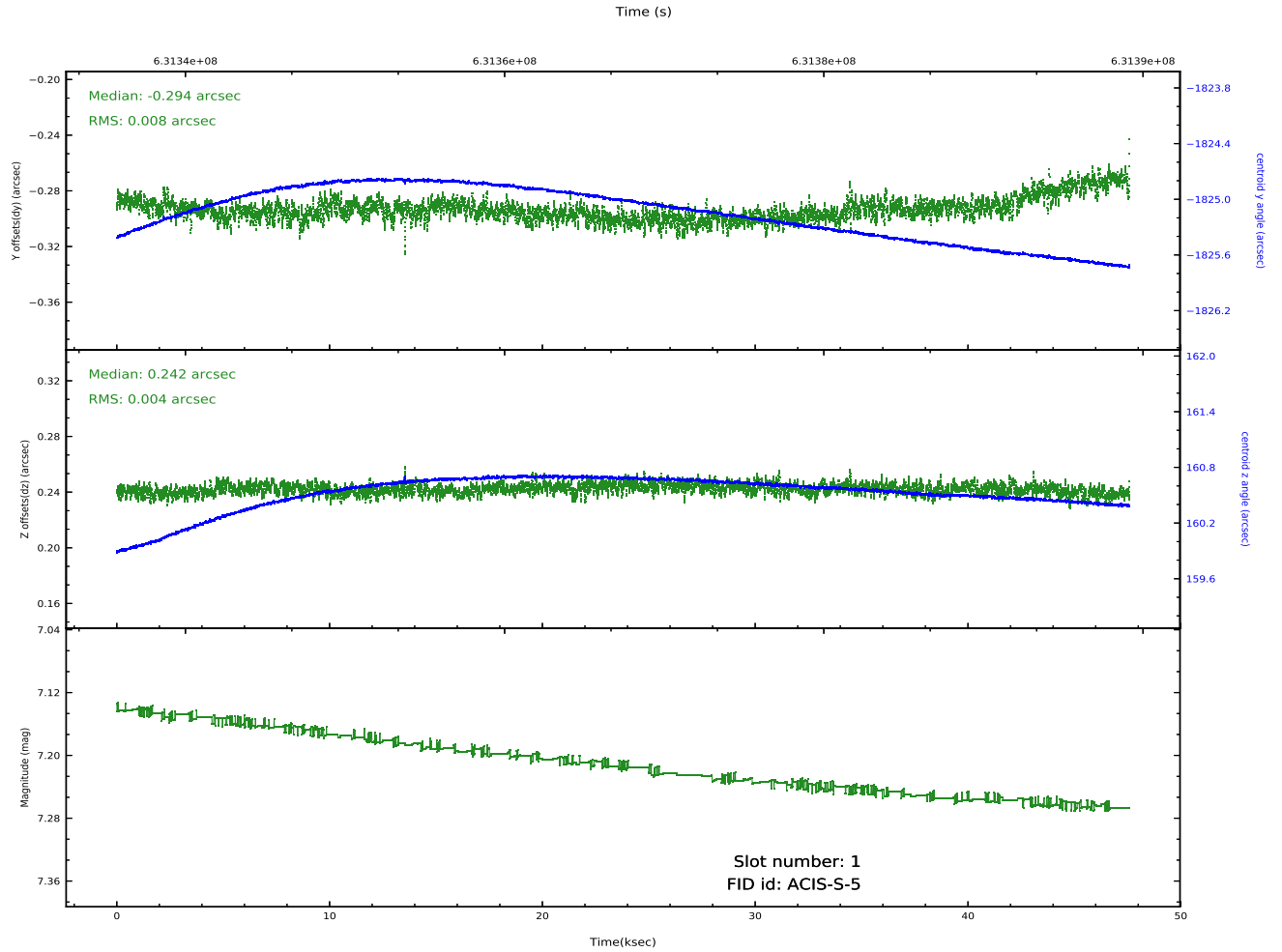
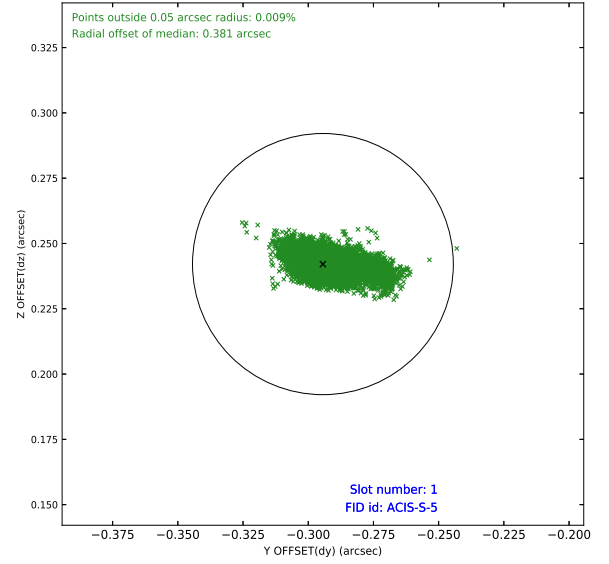
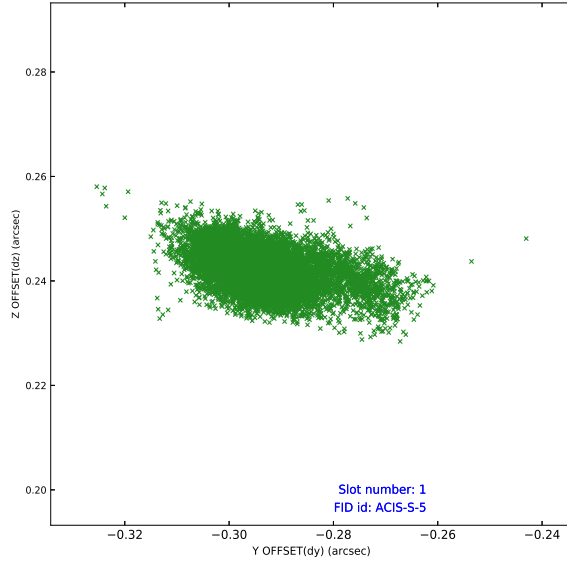


2.5 FID Slots

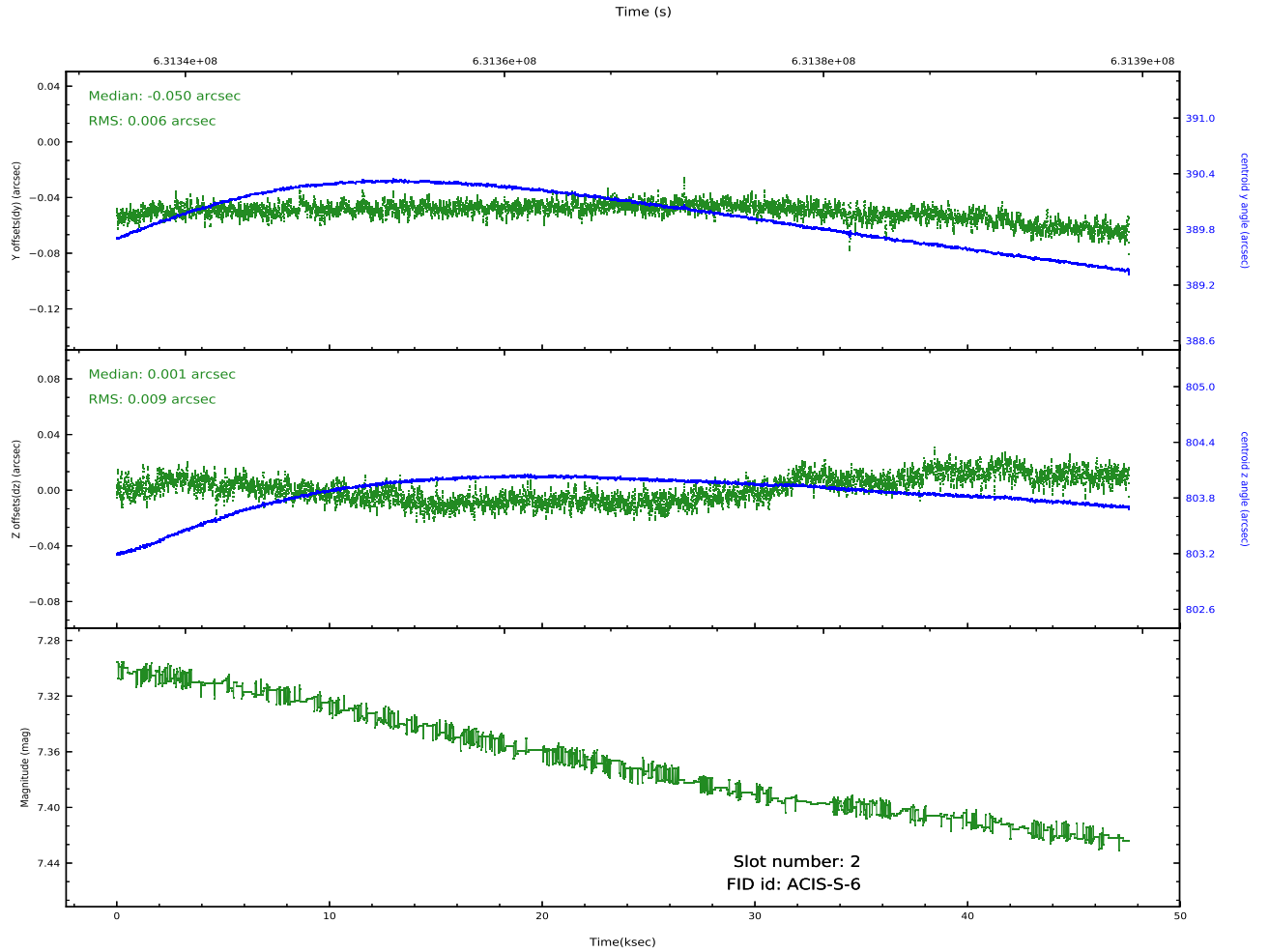
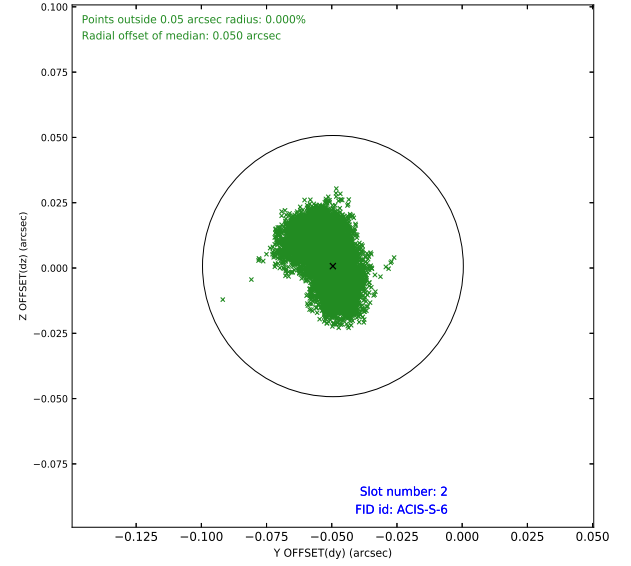
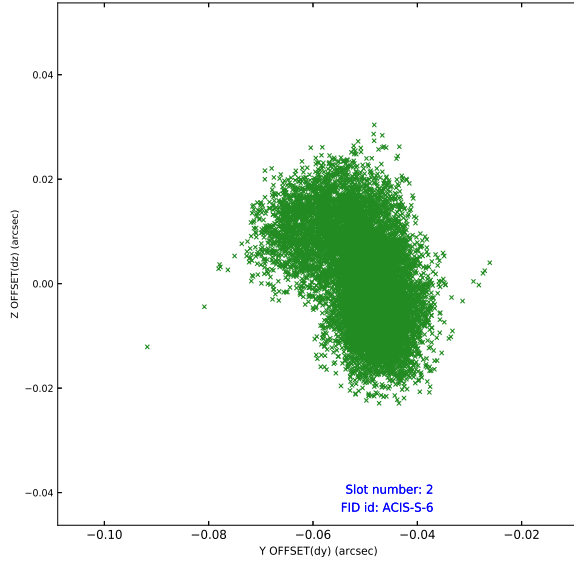
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.399000364661

A.2 Comments

One optional chip was dropped.