

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6948 - L2 Version 4
Chandra X-Ray Center

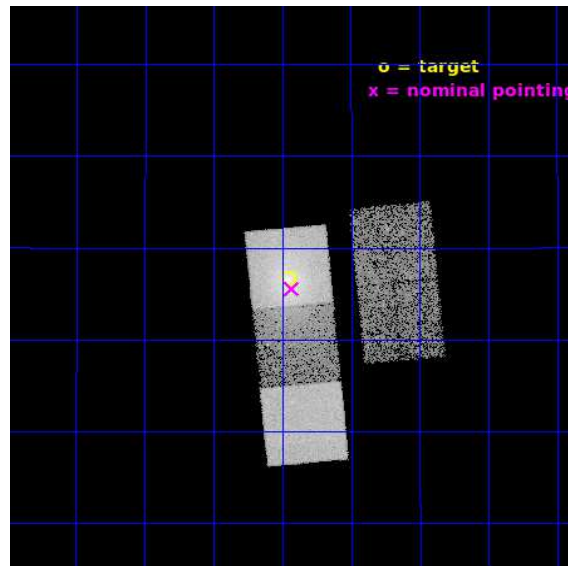
L2 Processing Date : Oct 11 2020

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1 Front

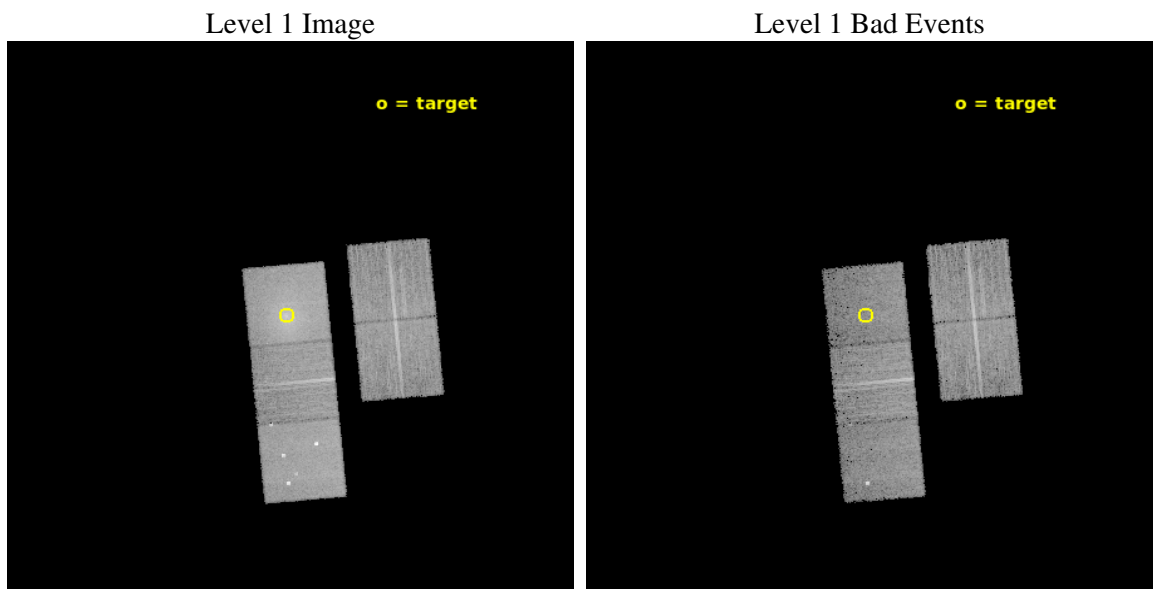
seq_num	800581	Sequence number
obs_id	6948	Observation id
title	Dark Matter in the Core of the Relaxed Cluster A2589	Proposal titl
observer	David Buote	Principal investigator
object	Abell 2589	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.989167	Observer's specified target RA [deg]
dec_targ	16.7775	Observer's specified target Dec [deg]
ra_nom	350.98247289822	Nominal RA [deg]
dec_nom	16.759430860553	Nominal Dec [deg]
roll_nom	264.6267155145	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10471.799979836	Sum of GTIs [s]
livetime	10334.978203872	Livetime [s]
ontime2	10465.518019289	Sum of GTIs [s]
ontime3	10471.799979836	Sum of GTIs [s]
ontime5	10471.799979836	Sum of GTIs [s]
ontime6	10471.799979836	Sum of GTIs [s]
ontime7	10471.799979836	Sum of GTIs [s]
l2events	134193	Number of level 2 events



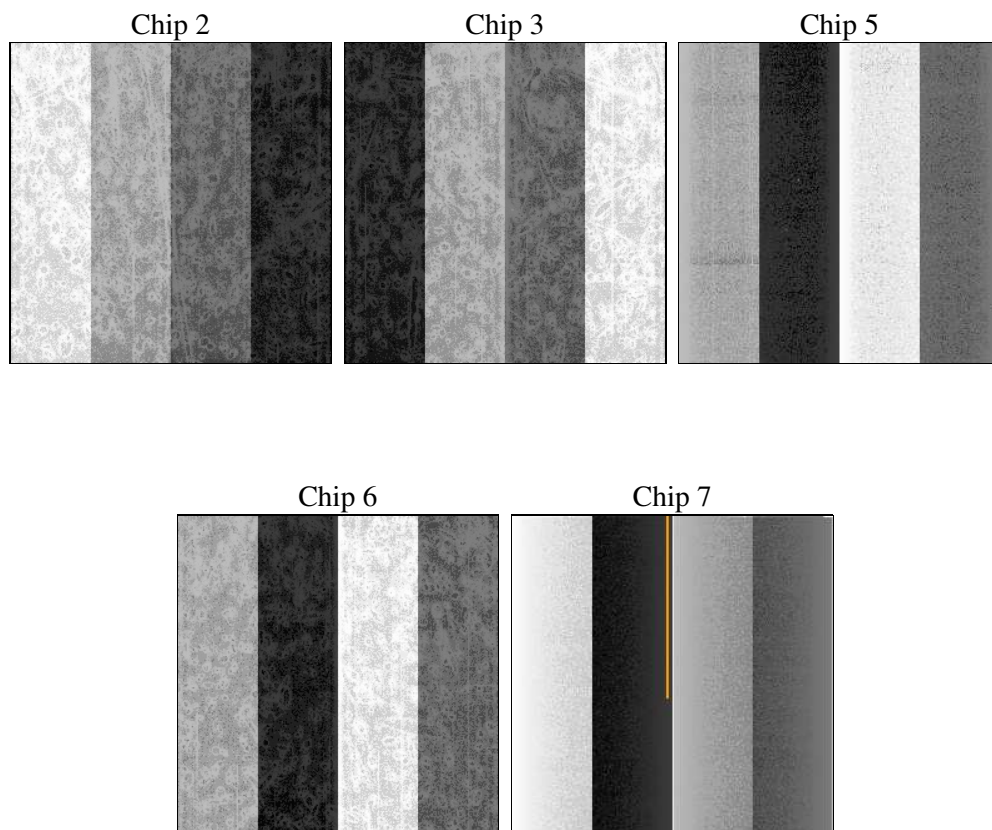
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10299.108000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10471.799979836	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	10465.518019289	Sum of GTIs [s]
date	2020-10-11T03:40:15	Date and time of file creation	ontime3	10471.799979836	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	10471.799979836	Sum of GTIs [s]
			ontime6	10471.799979836	Sum of GTIs [s]
			ontime7	10471.799979836	Sum of GTIs [s]
			l1events	427554	Number of level 1 events

2.1.4 Events

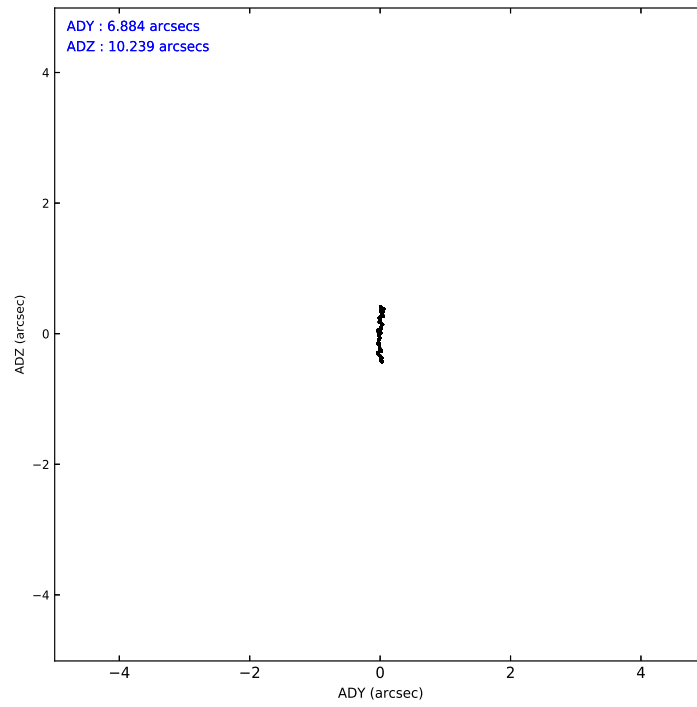
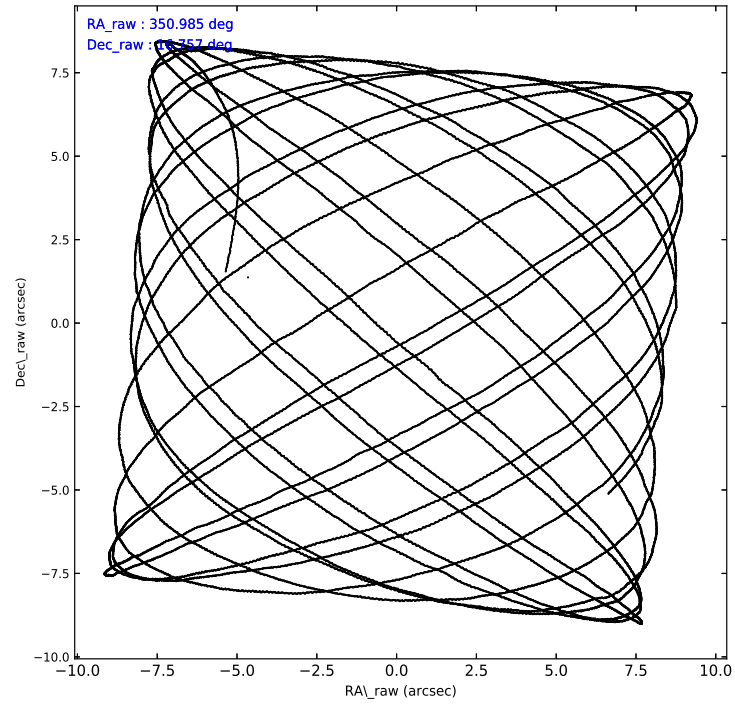
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	71122	69706	101119	74274	111333
rejected events	64007	62861	49408	62296	42688
rejected %	89%	90%	48%	83%	38%

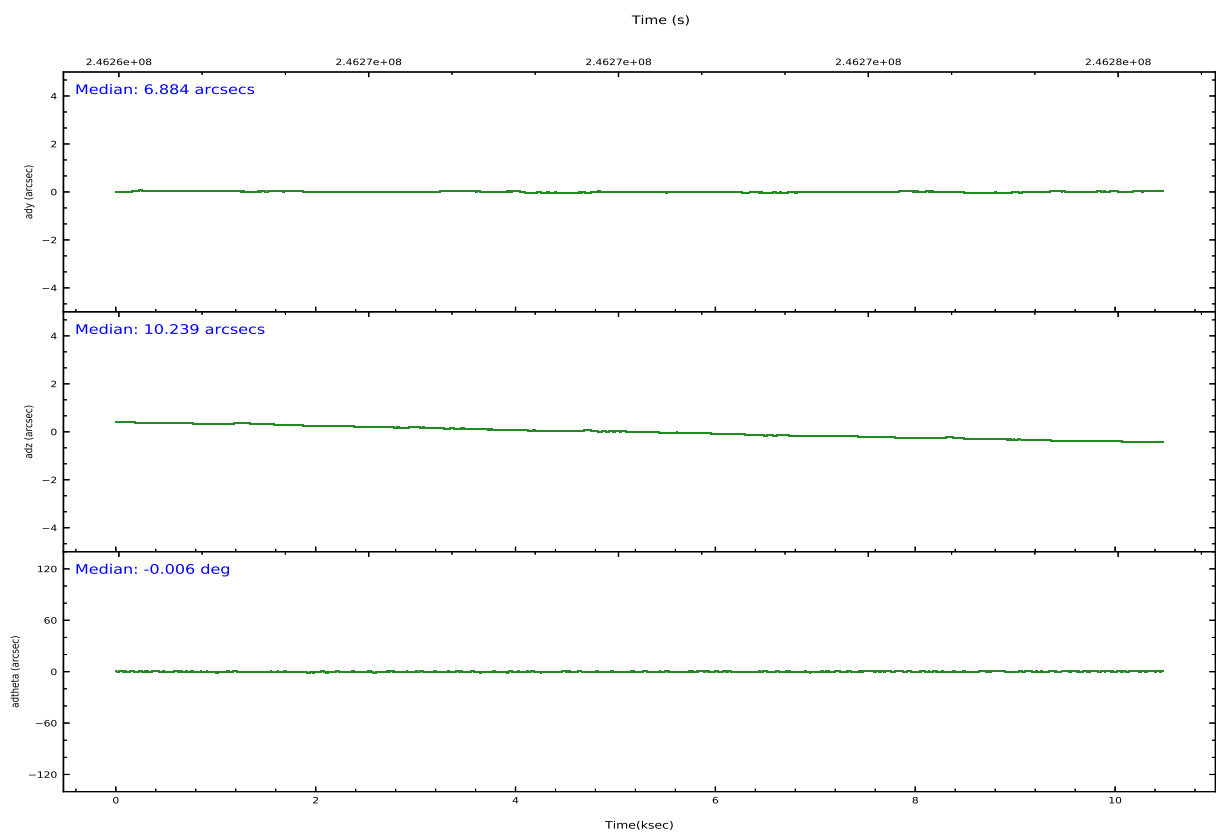
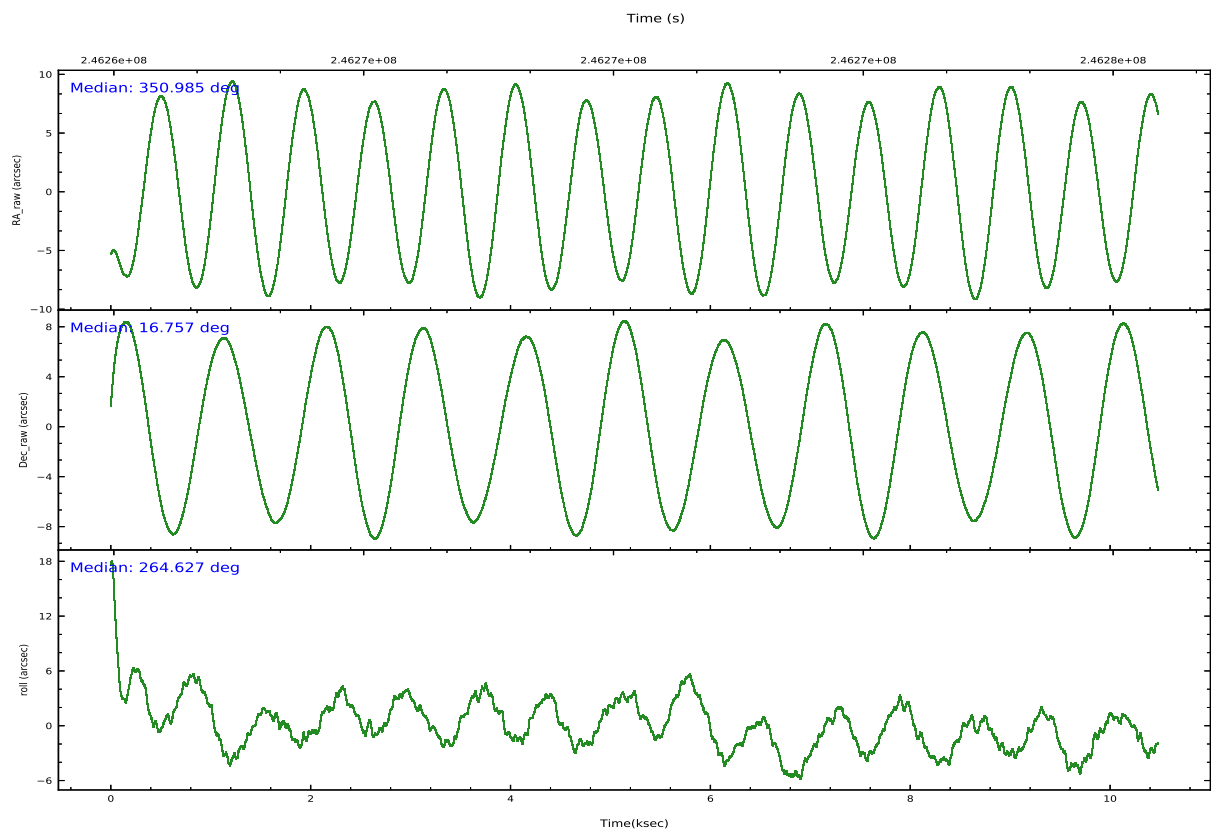
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	2716	2662	8212	6523	13193
	3%	3%	8%	8%	11%
grade 1 events	28	31	155	59	74
	0%	0%	0%	0%	0%
grade 2 events	1624	1452	14524	1931	15840
	2%	2%	14%	2%	14%
grade 3 events	760	744	2173	919	7435
	1%	1%	2%	1%	6%
grade 4 events	767	696	2074	939	7115
	1%	0%	2%	1%	6%
grade 5 events	2200	2611	8139	2824	8470
	3%	3%	8%	3%	7%
grade 6 events	1255	1298	24761	1672	25093
	1%	1%	24%	2%	22%
grade 7 events	61772	60212	41081	59407	34113
	86%	86%	40%	79%	30%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23567	ACIS-23567	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	350.973151	350.98247289822	Subarray requested	NONE	NONE
[deg] Pointing Dec	16.781664	16.759430860553	Alternating exposures requested	N	N
[deg] Pointing Roll	264.472739	264.6267155145	[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)	246265152.184000	246264154.76716			
Observation start date	2005-10-21T06:58:08	2005-10-21T06:42:34			
[s] Observation end time (MET)	246275451.184000	246275671.15519			
Observation end date	2005-10-21T09:49:47	2005-10-21T09:54:31			
Read mode	TIMED	TIMED			

2.3 Aspect



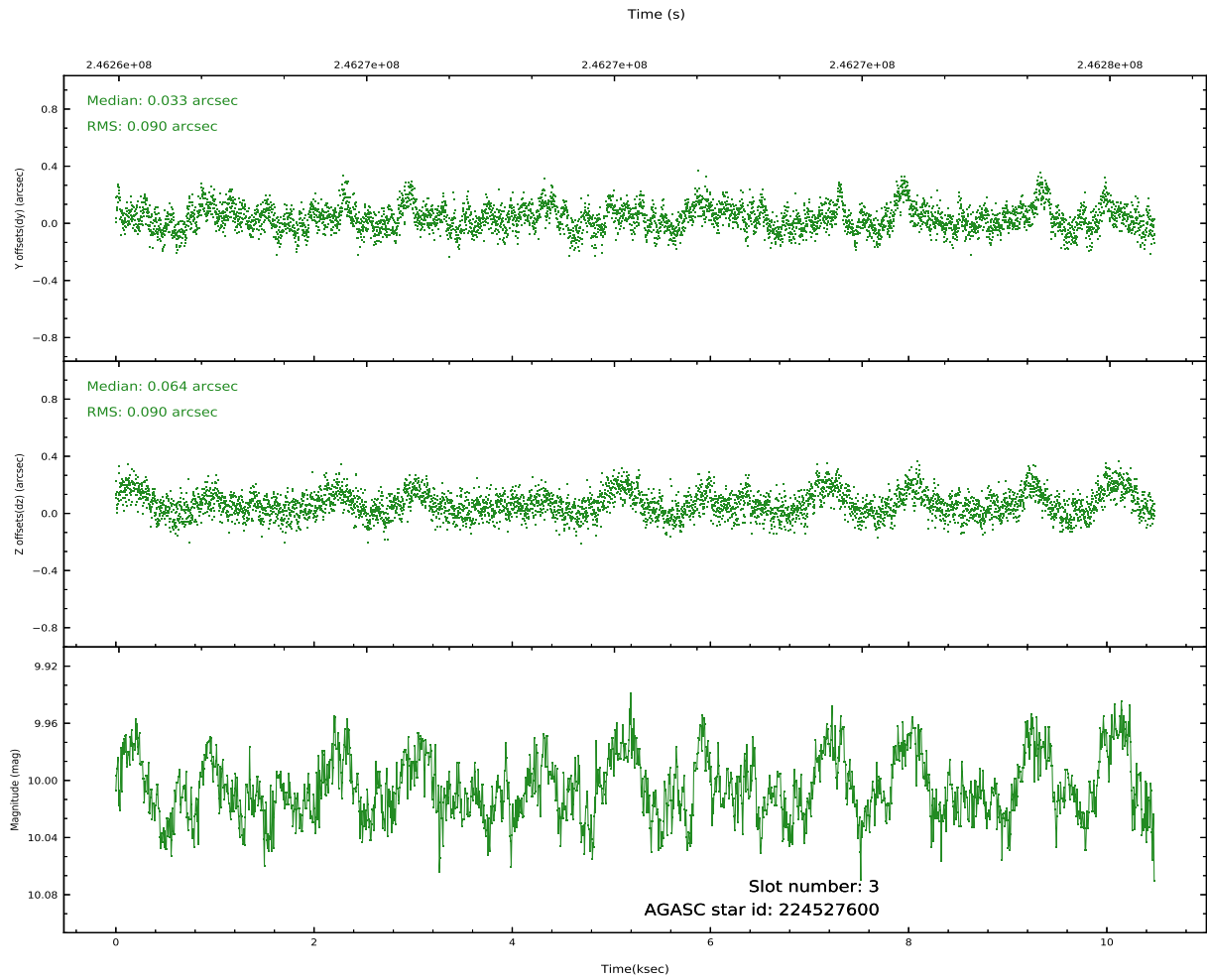
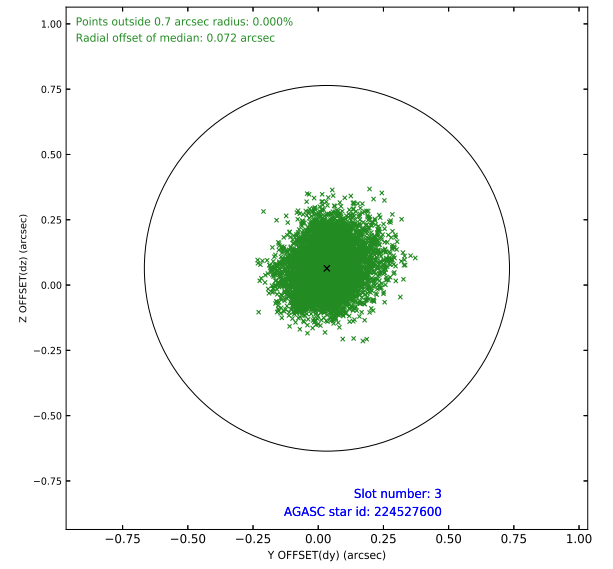
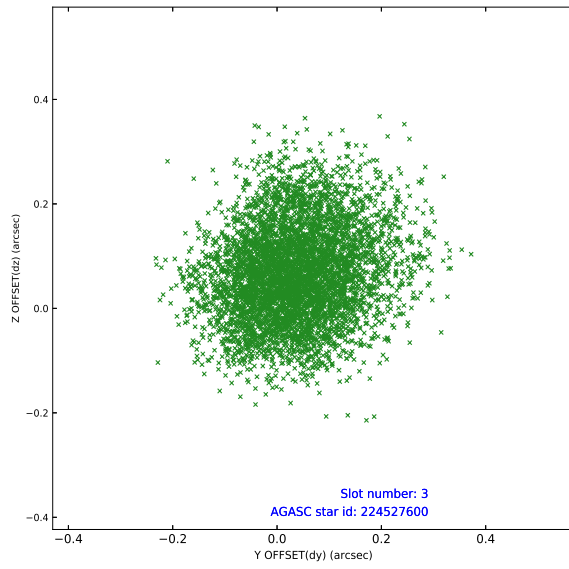


Slot Statistics

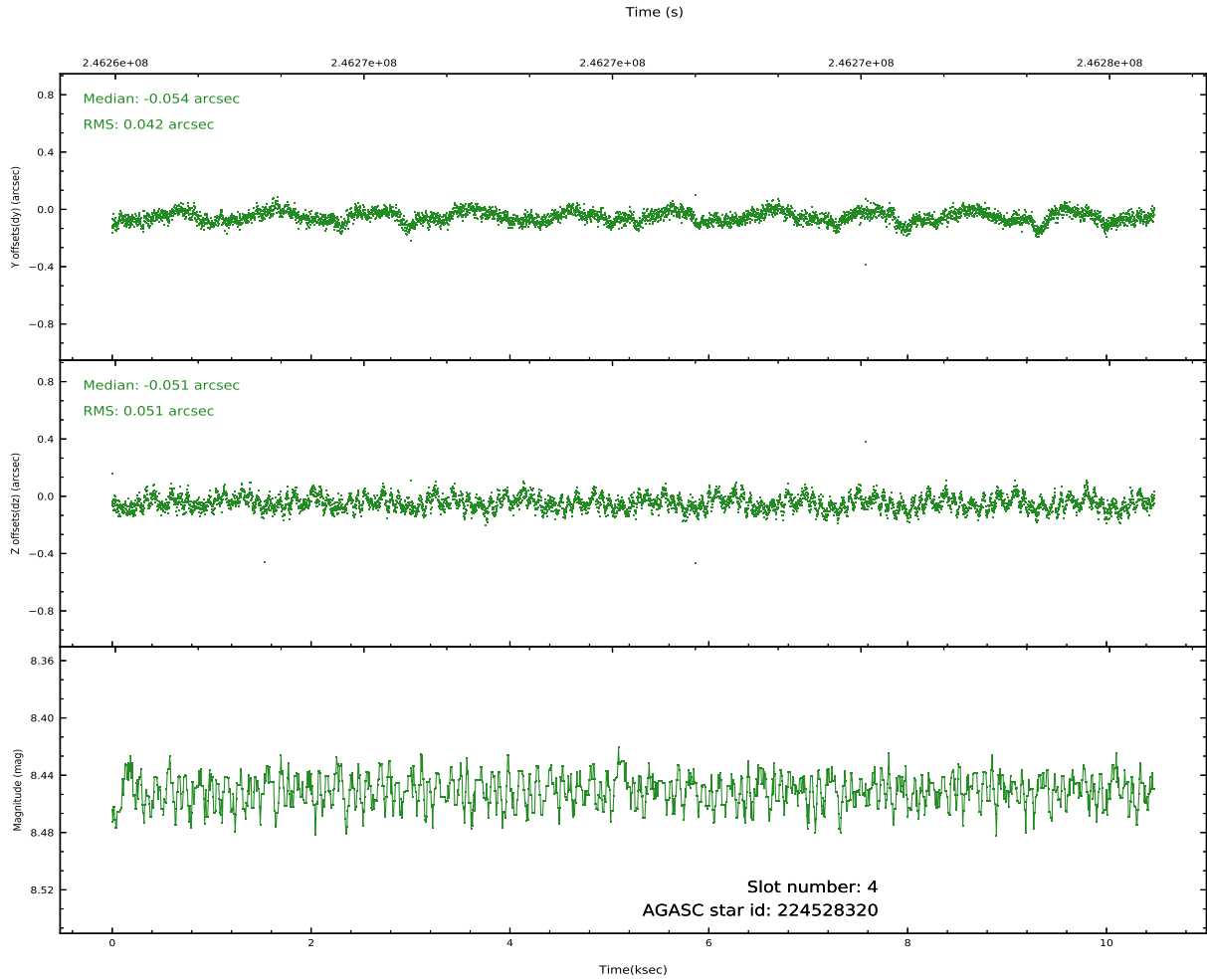
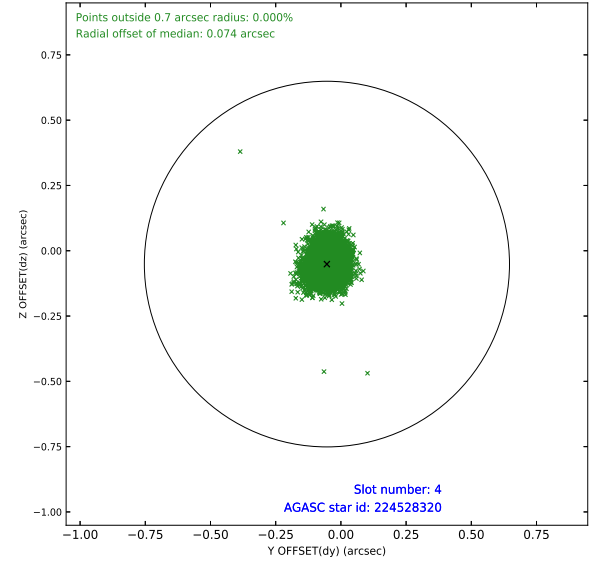
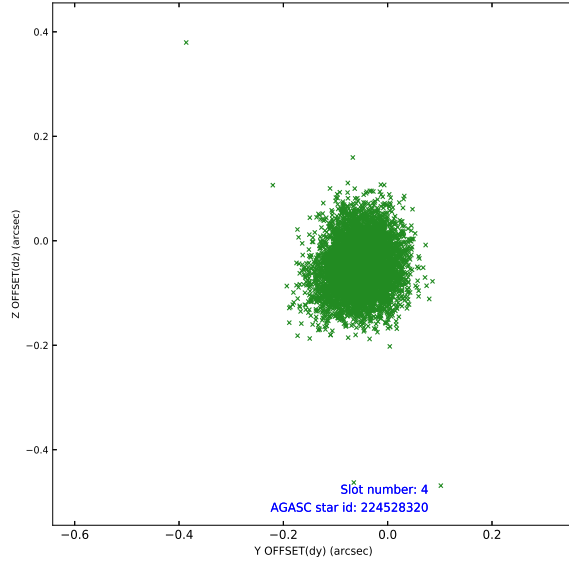
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2557	1.000	-0.087	-0.062	0.008	0.013	0.000000	0.000000	-759.66	-1731
1	FID		ACIS-S-4	7.21	2557	1.000	0.161	0.058	0.006	0.010	0.000000	0.000000	2153.57	176
2	FID		ACIS-S-5	7.23	2557	1.000	-0.105	0.012	0.007	0.012	0.000000	0.000000	-1811.94	170
3	GUIDE	used	224527600	10.01	5103	1.000	0.033	0.064	0.137	0.219	351.354290	17.243672	-1782.37	1144
4	GUIDE	used	224528320	8.45	5114	1.000	-0.054	-0.051	0.071	0.111	350.399607	17.080070	-881.73	-2067
5	GUIDE	used	224528984	8.96	5114	1.000	0.079	-0.012	0.088	0.141	350.492856	16.632535	692.61	-1595
6	GUIDE	used	224531944	9.24	5109	1.000	0.156	0.128	0.080	0.129	350.741588	16.203421	2149.60	-596
7	GUIDE	used	224536712	9.33	5106	1.000	-0.219	-0.133	0.087	0.140	350.322096	17.433192	-2122.05	-2452

2.4 Star Slots

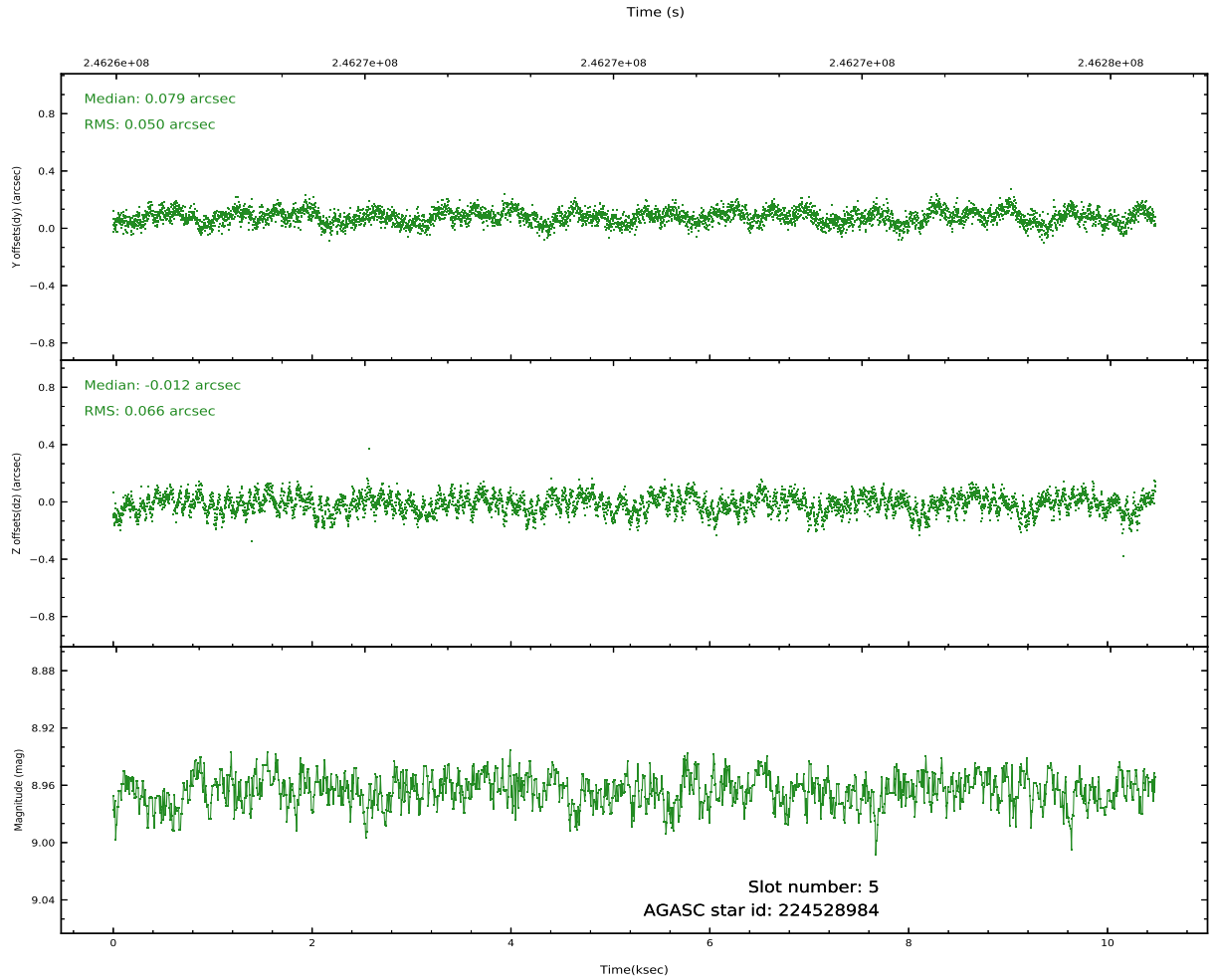
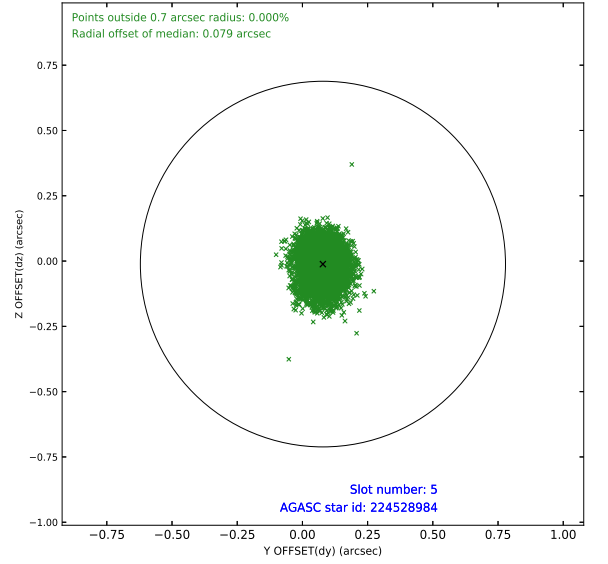
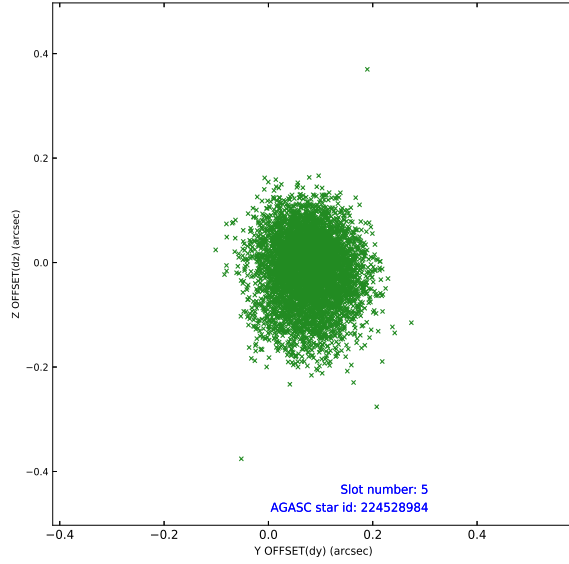
2.4.1 Slot 3



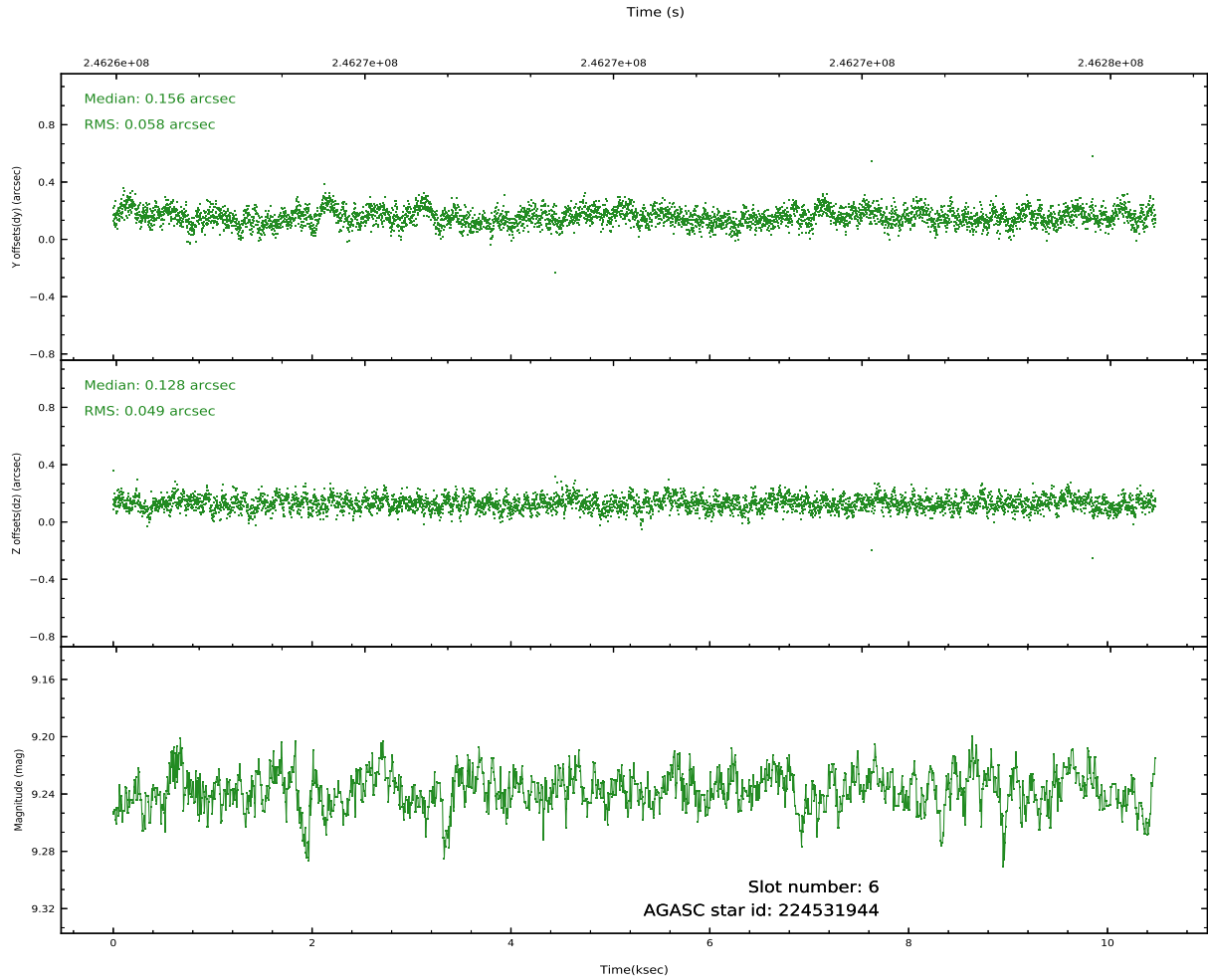
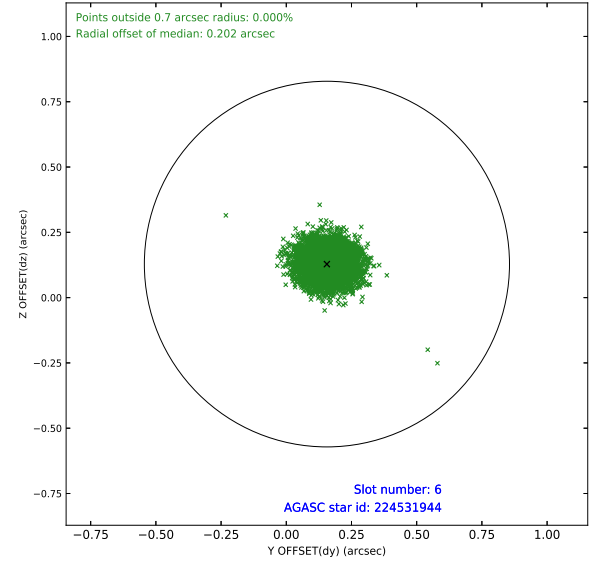
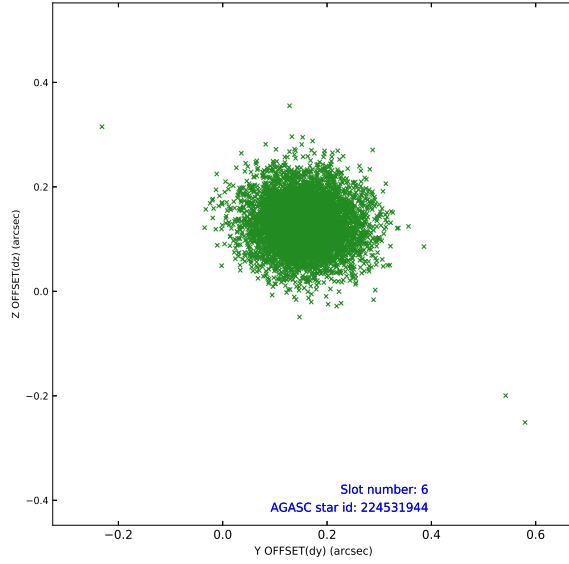
2.4.2 Slot 4



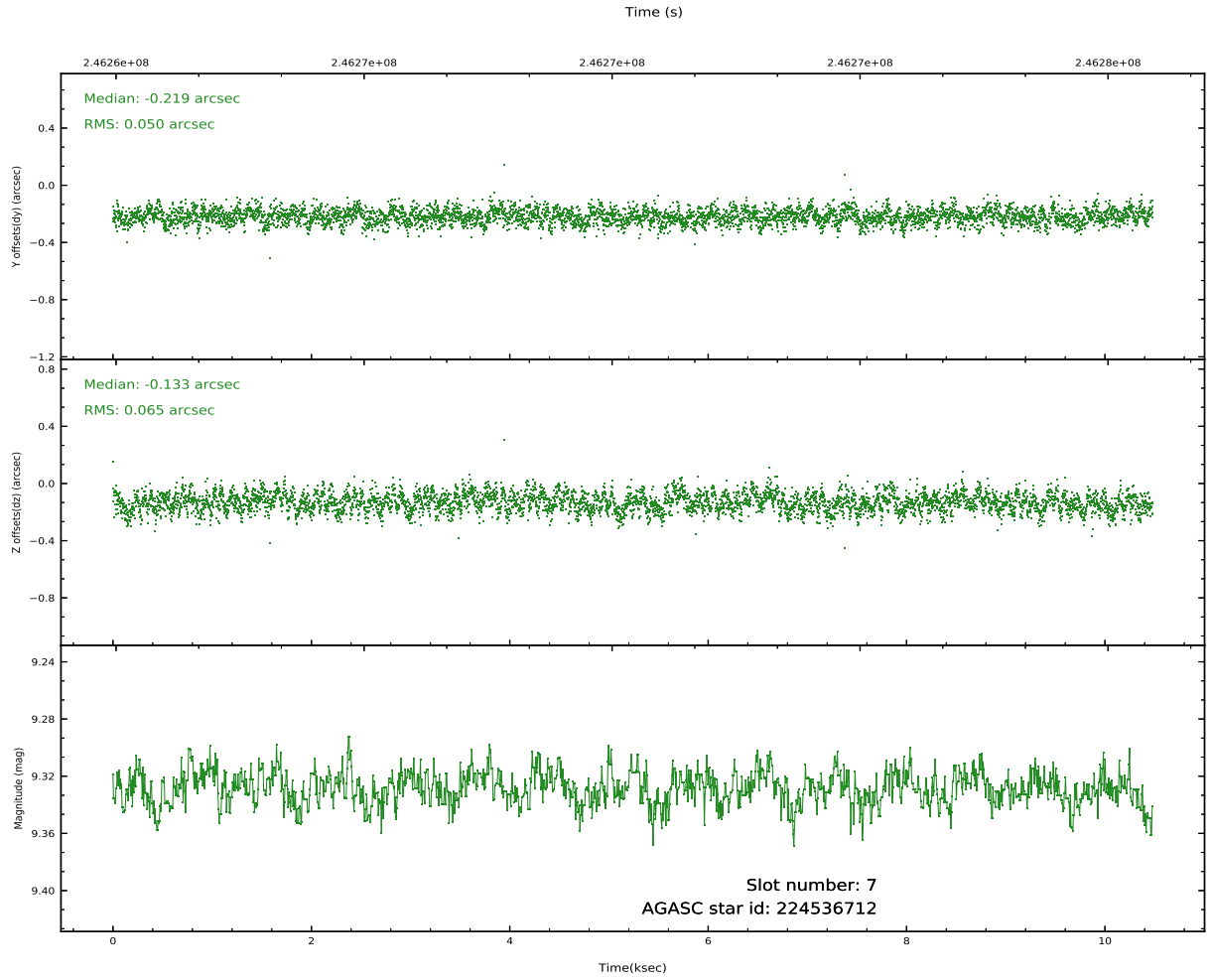
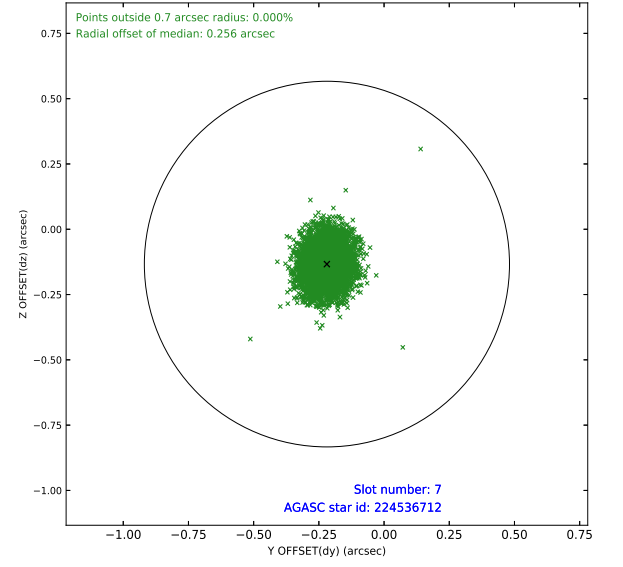
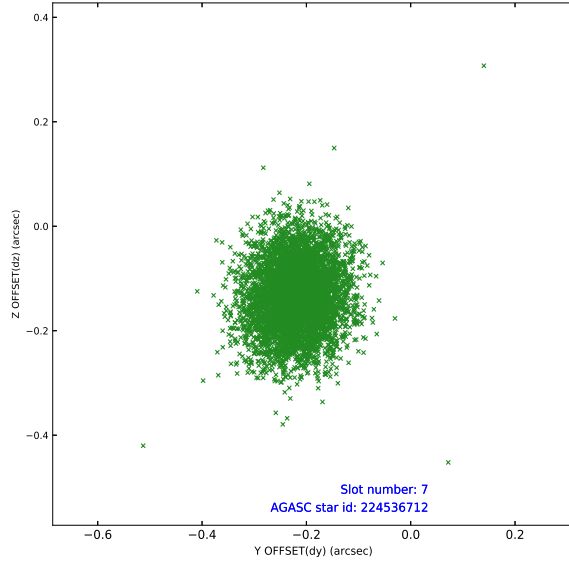
2.4.3 Slot 5



2.4.4 Slot 6

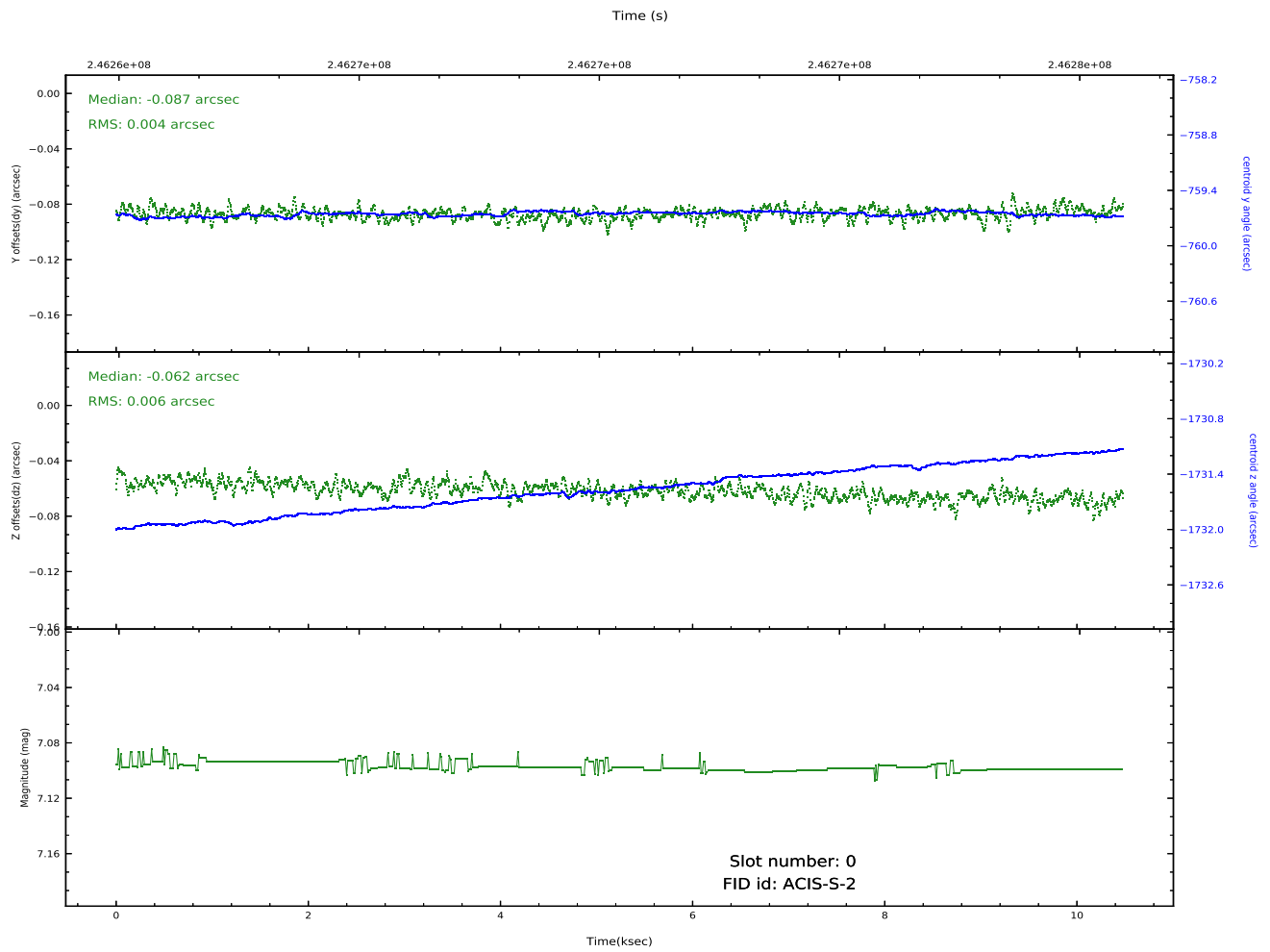
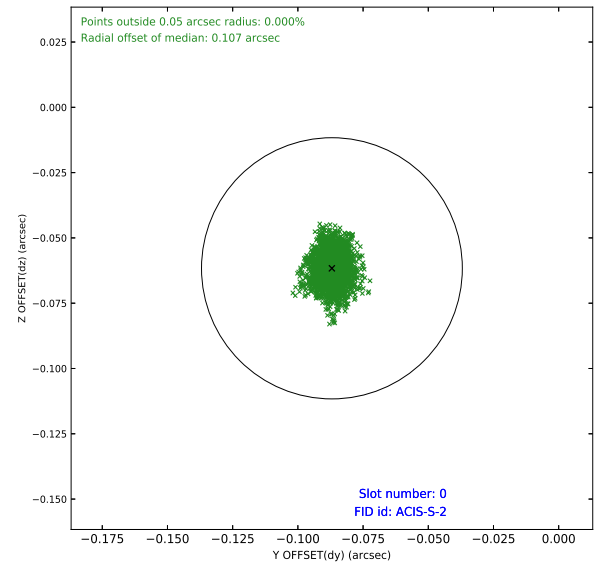
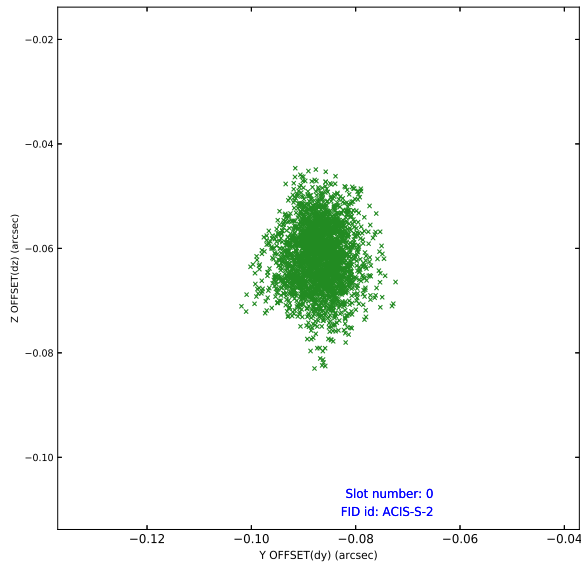


2.4.5 Slot 7

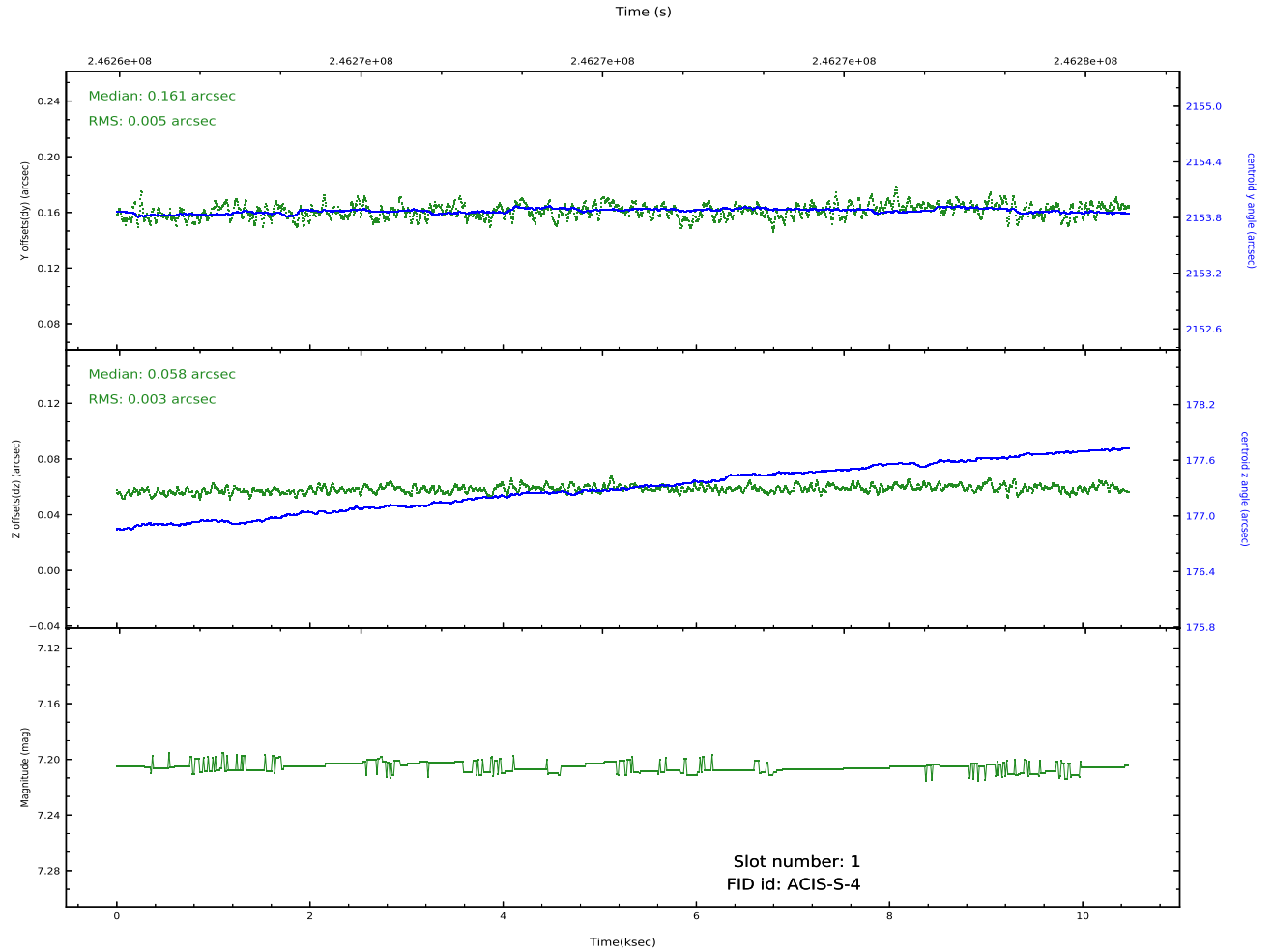
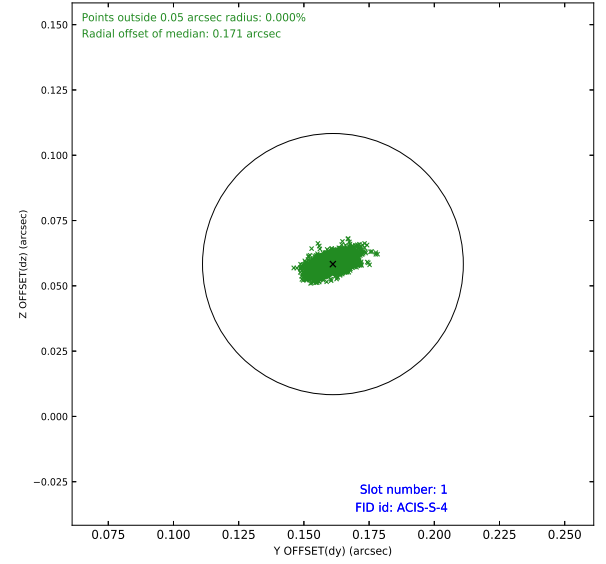
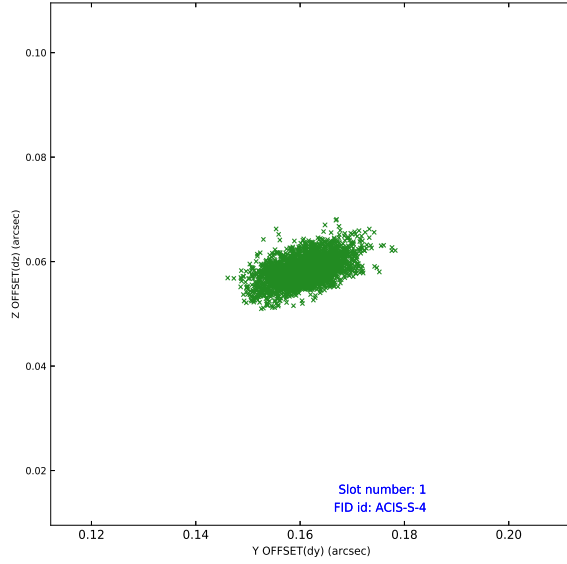


2.5 FID Slots

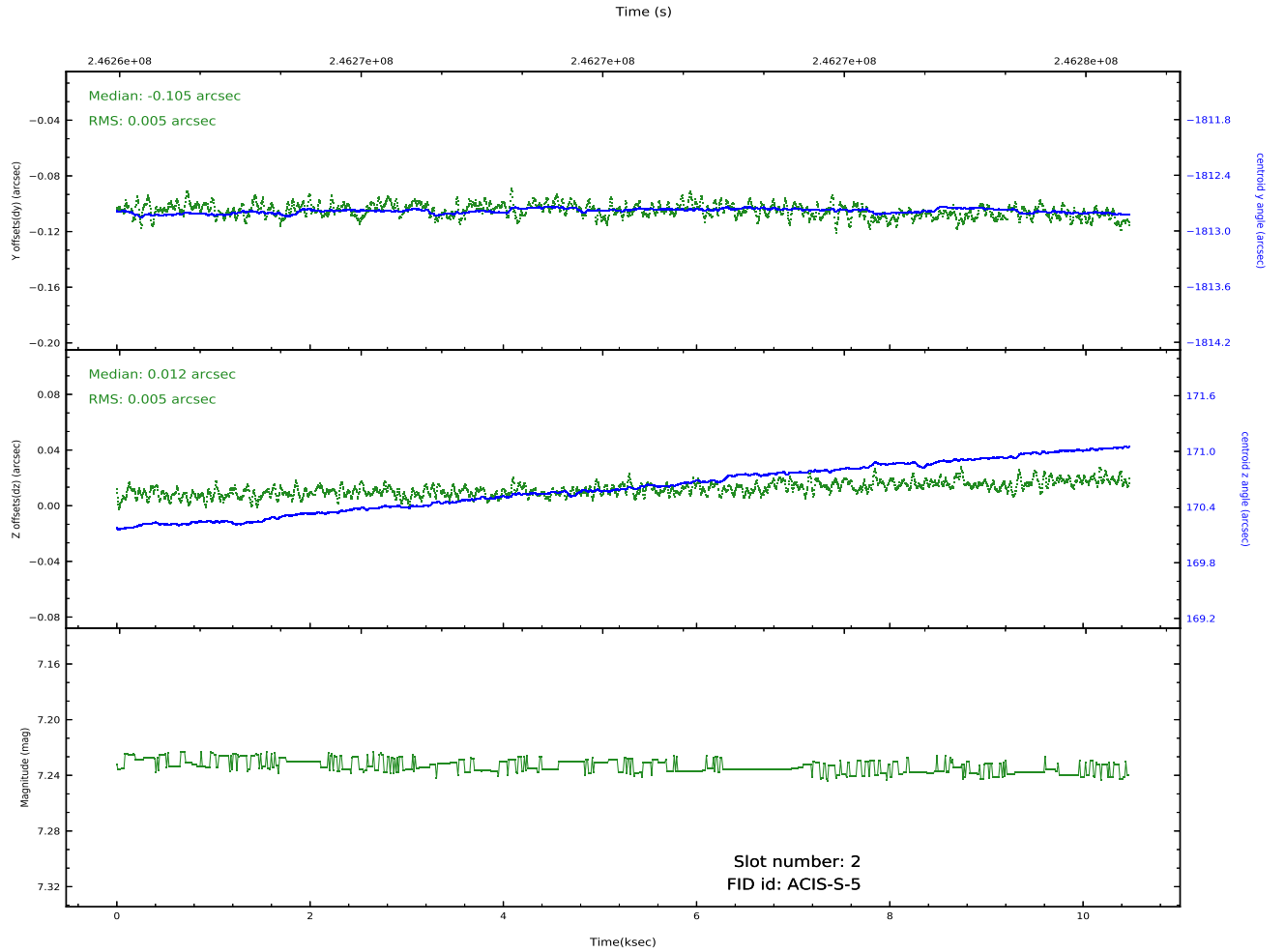
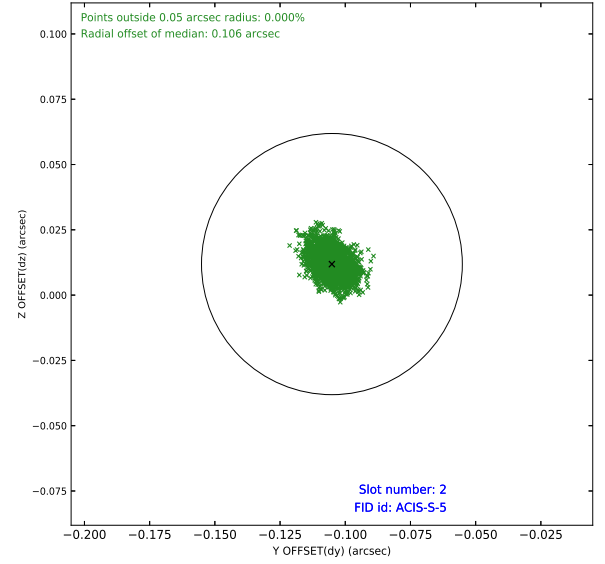
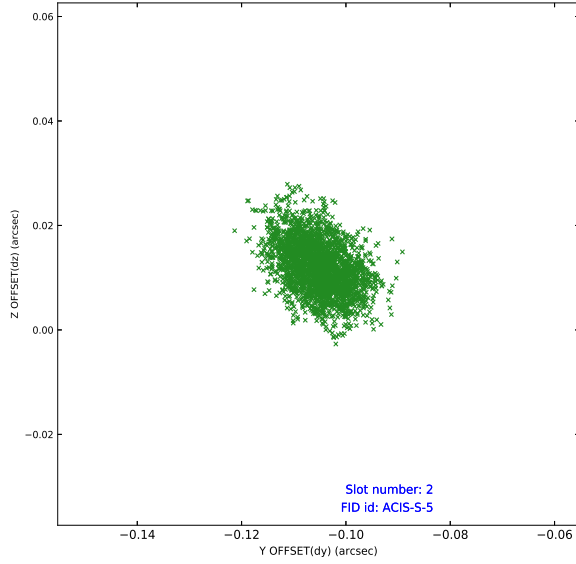
2.5.1 Slot 0



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)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.47179

A.2 Comments