

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5291 - L2 Version 4
Chandra X-Ray Center

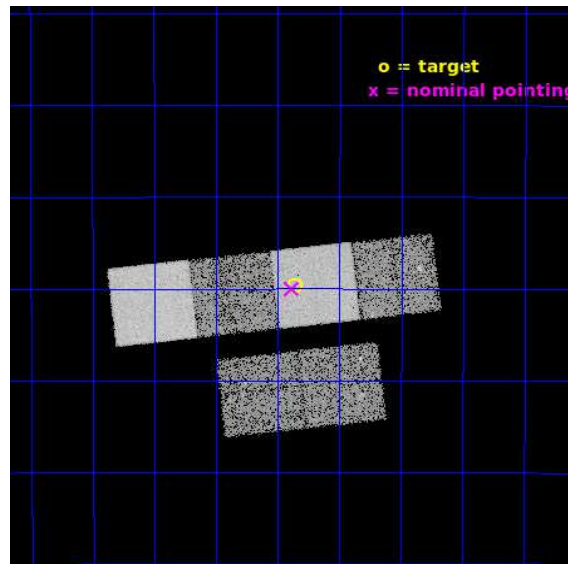
L2 Processing Date : Sep 23 2020

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1 Front

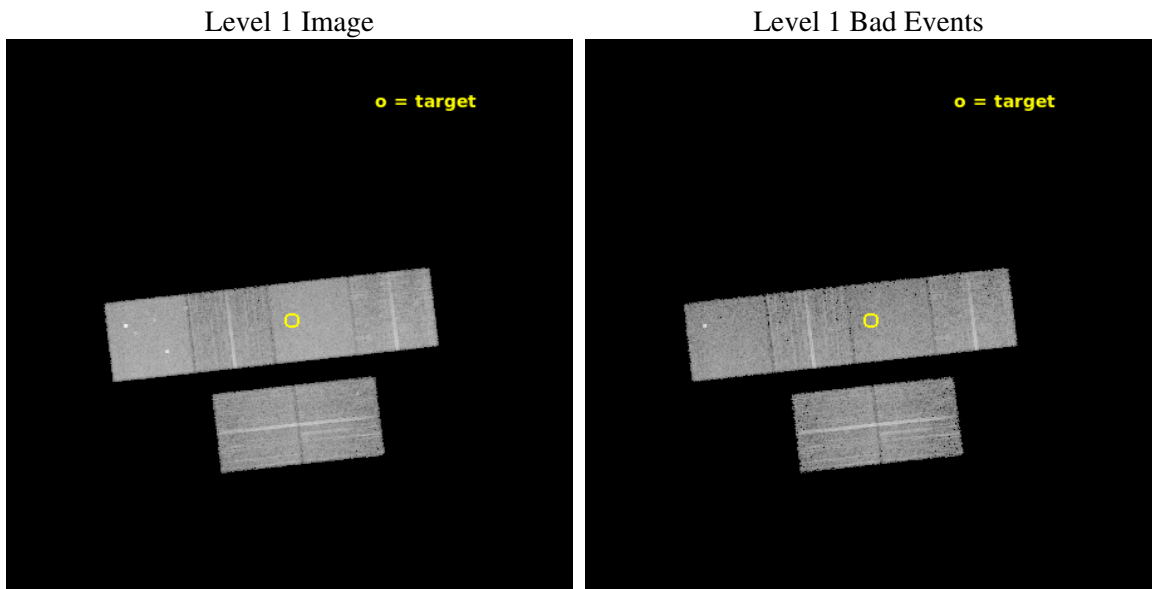
seq_num	400376	Sequence number
obs_id	5291	Observation id
title	A Search for X-Ray Emission from the Double-Pulsar Binary System J0737-3039	Proposal title
observer	Dr Maura McLaughlin	Principal investigator
object	PSR J0737-3039	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	114.46375	Observer's specified target RA [deg]
dec_targ	-30.661306	Observer's specified target Dec [deg]
ra_nom	114.47141072031	Nominal RA [deg]
dec_nom	-30.66666586361	Nominal Dec [deg]
roll_nom	353.41529064602	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10137.599962234	Sum of GTIs [s]
livetime	10009.231567383	Livetime [s]
ontime2	10137.599962234	Sum of GTIs [s]
ontime3	10137.599962234	Sum of GTIs [s]
ontime5	10137.599962234	Sum of GTIs [s]
ontime6	10137.599962234	Sum of GTIs [s]
ontime7	10137.599962234	Sum of GTIs [s]
ontime8	10137.599962234	Sum of GTIs [s]
l2events	107460	Number of level 2 events



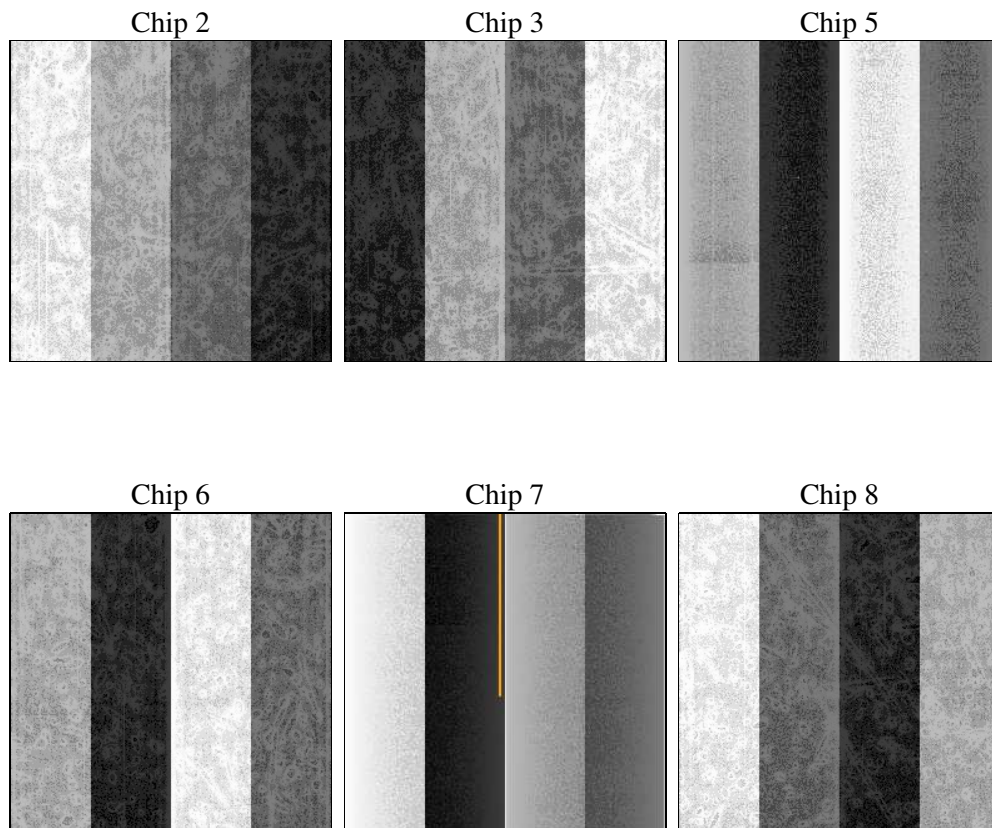
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10137.599962234	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	10137.599962234	Sum of GTIs [s]
date	2020-09-23T13:22:50	Date and time of file creation	ontime3	10137.599962234	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	10137.599962234	Sum of GTIs [s]
			ontime6	10137.599962234	Sum of GTIs [s]
			ontime7	10137.599962234	Sum of GTIs [s]
			ontime8	10137.599962234	Sum of GTIs [s]
			l1events	500600	Number of level 1 events

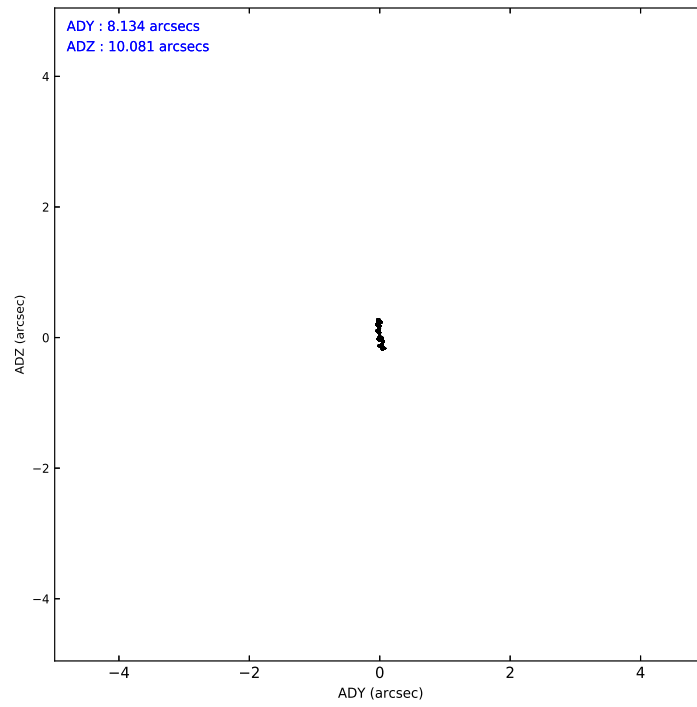
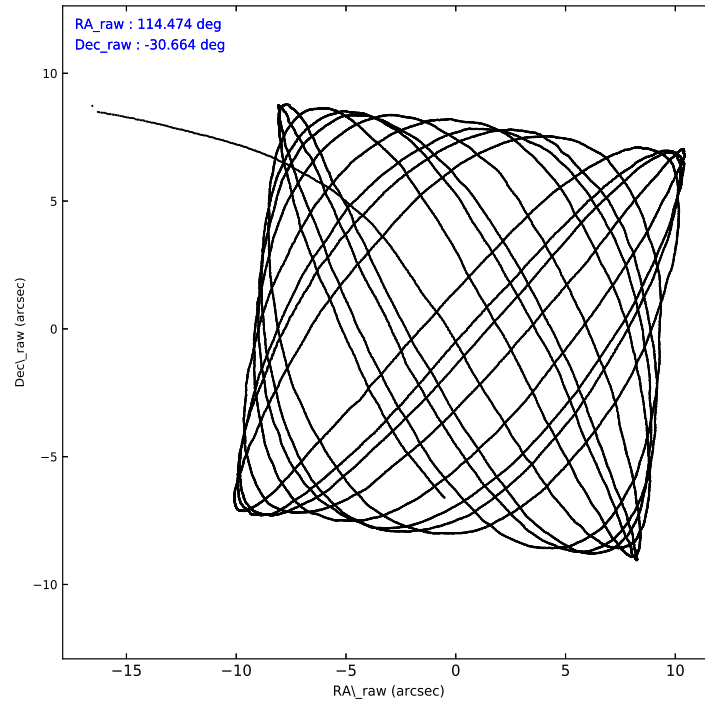
2.1.4 Events

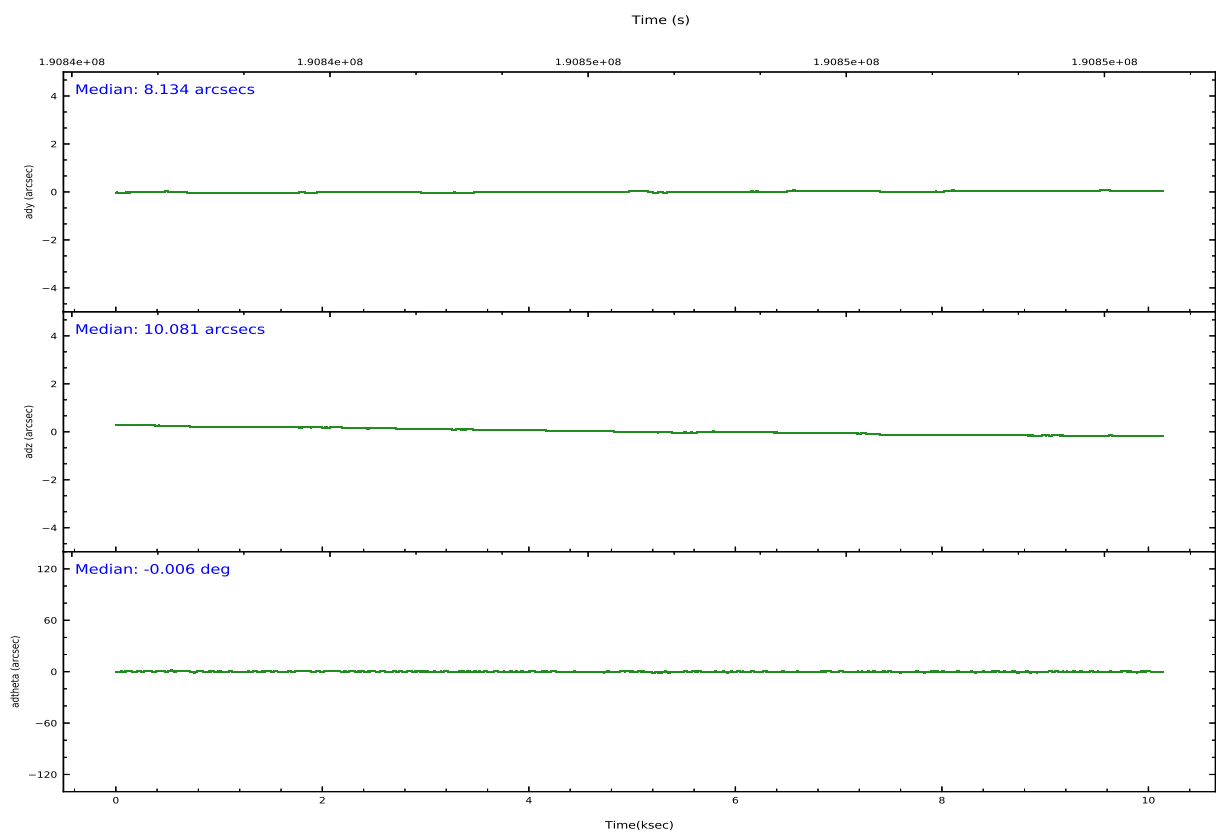
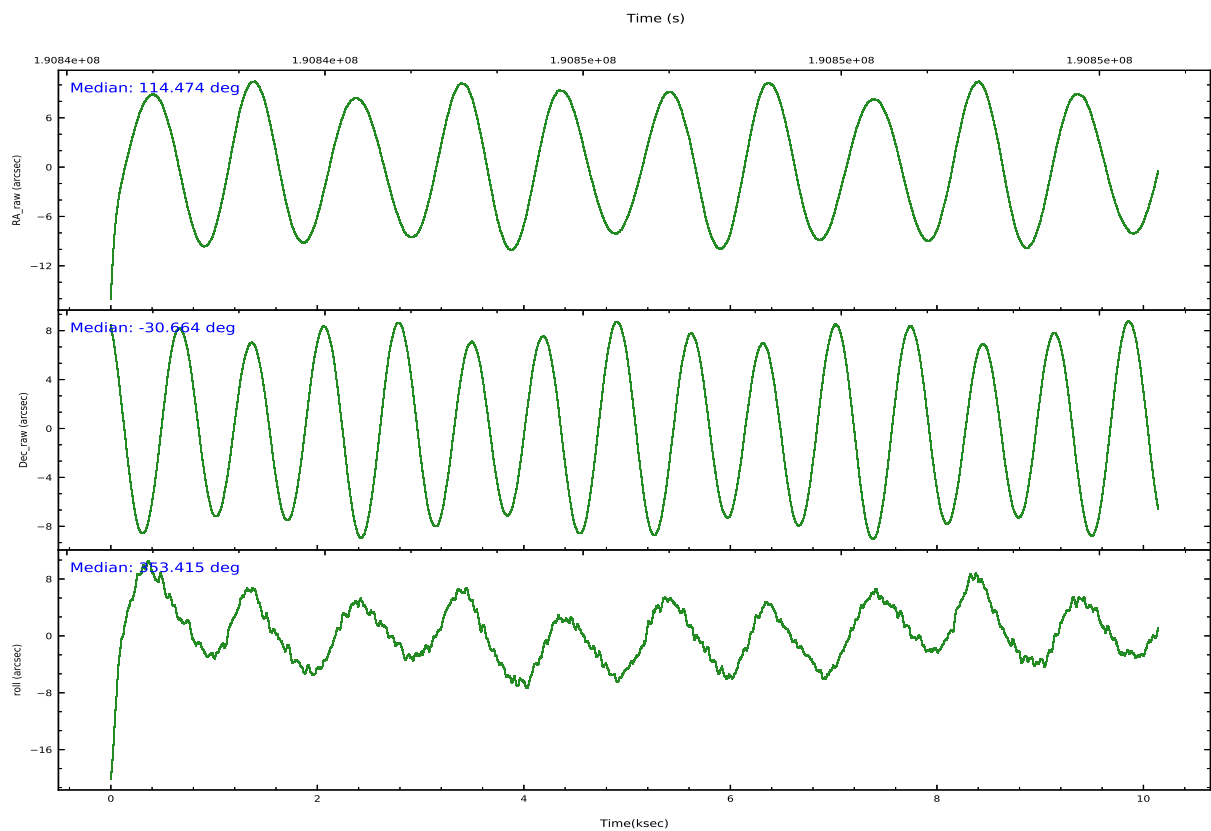
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	70215	68045	107727	71541	95375	87697	grade 0 events	4234	4001	5714	3802	3581	6522
rejected events	61763	59822	61413	63015	58552	69290		6%	5%	5%	5%	3%	7%
rejected %	87%	87%	57%	88%	61%	79%	grade 1 events	40	46	134	34	79	38
								0%	0%	0%	0%	0%	0%
							grade 2 events	1727	1591	15023	1872	7814	4191
								2%	2%	13%	2%	8%	4%
							grade 3 events	765	770	1884	871	3451	2029
								1%	1%	1%	1%	3%	2%
							grade 4 events	816	909	1874	800	3449	1948
								1%	1%	1%	1%	3%	2%
							grade 5 events	2785	3013	7729	3305	9009	4161
								3%	4%	7%	4%	9%	4%
							grade 6 events	1426	1498	25103	1745	21075	4928
								2%	2%	23%	2%	22%	5%
							grade 7 events	58422	56217	50266	59112	46917	63880
								83%	82%	46%	82%	49%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	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	114.445643	114.47141072031	Subarray requested	NONE	NONE
[deg] Pointing Dec	-30.675236	-30.66666586361	Alternating exposures requested	N	N
[deg] Pointing Roll	353.240448	353.41529064602	[s] Primary exposure time	0.000000	3.2
[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)	190843069.184000	190841668.37748			
Observation start date	2004-01-18T19:56:45	2004-01-18T19:34:28			
[s] Observation end time (MET)	190853069.184000	190853748.51551			
Observation end date	2004-01-18T22:43:25	2004-01-18T22:55:48			
Read mode	TIMED	TIMED			

2.3 Aspect



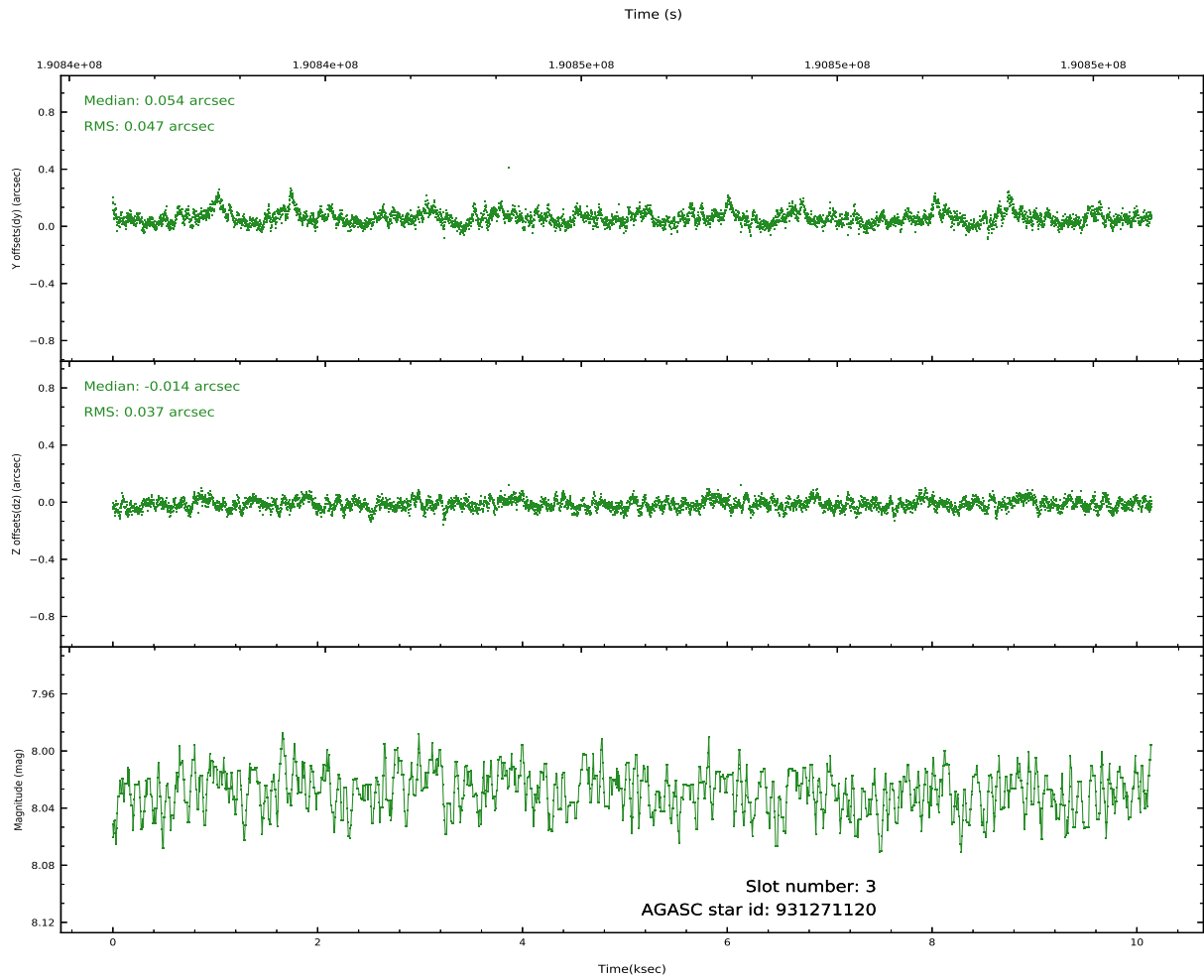
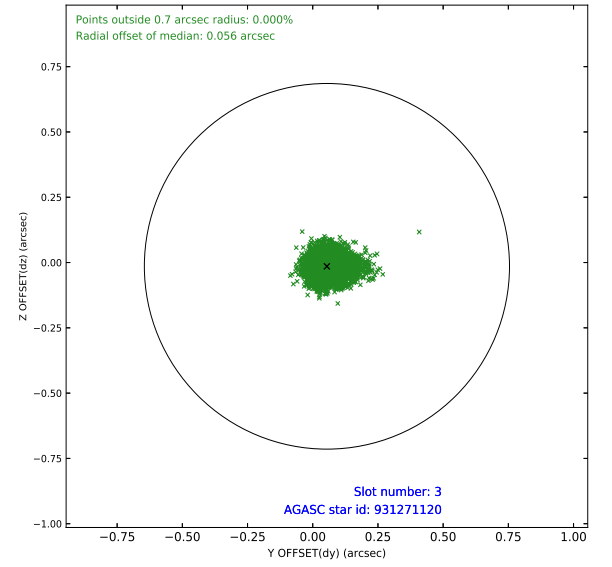
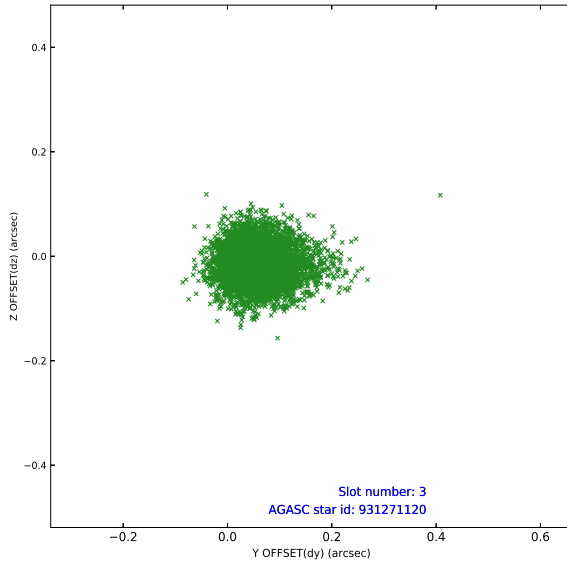


Slot Statistics

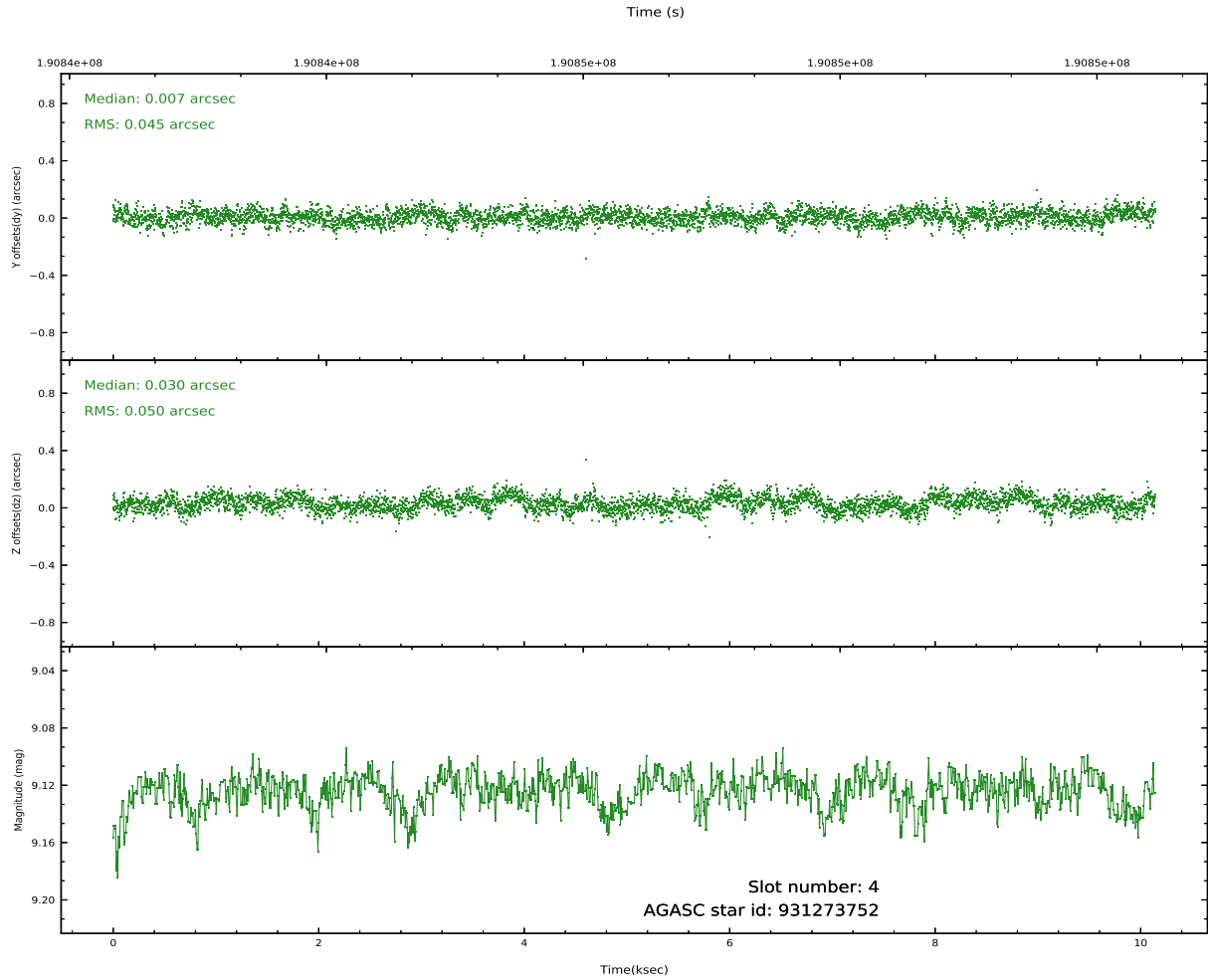
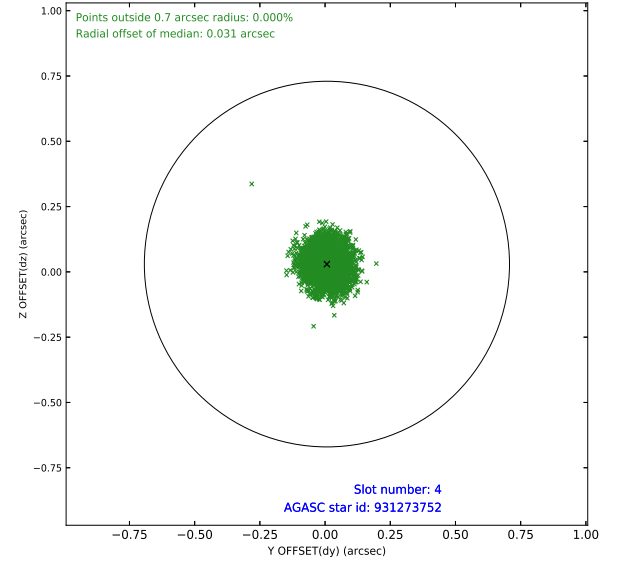
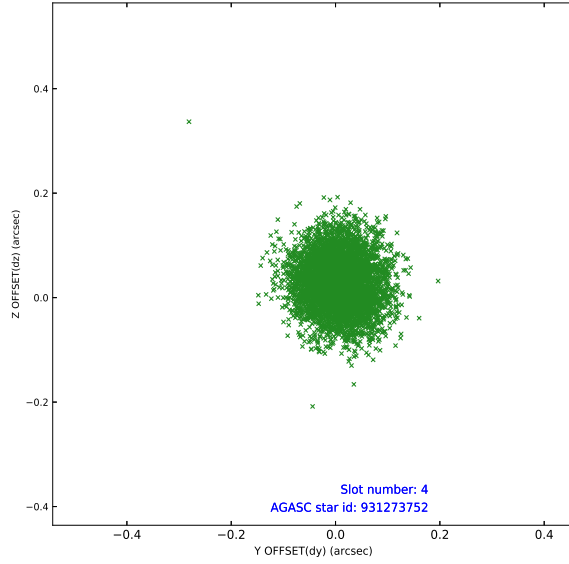
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	2474	1.000	0.053	-0.061	0.011	0.018	0.000000	0.000000	935.19	-1726
1	FID		ACIS-S-5	7.23	2475	1.000	-0.118	0.025	0.006	0.010	0.000000	0.000000	-1813.71	170
2	FID		ACIS-S-6	7.34	2474	1.000	0.043	0.047	0.012	0.019	0.000000	0.000000	400.14	814
3	GUIDE	used	931271120	8.03	4948	1.000	0.054	-0.014	0.062	0.103	114.333464	-30.792205	-294.63	-459
4	GUIDE	used	931273752	9.12	4946	1.000	0.007	0.030	0.072	0.114	114.272866	-30.278196	-701.52	1355
5	GUIDE	used	931276288	9.26	4947	1.000	0.059	0.080	0.089	0.145	114.013223	-30.688150	-1323.48	-206
6	GUIDE	used	931417848	6.92	4949	1.000	-0.150	-0.104	0.045	0.072	115.018285	-30.169061	1555.67	2014
7	GUIDE	used	931413320	7.41	4878	1.000	0.024	0.010	0.054	0.090	115.109397	-30.079715	1802.14	2366

2.4 Star Slots

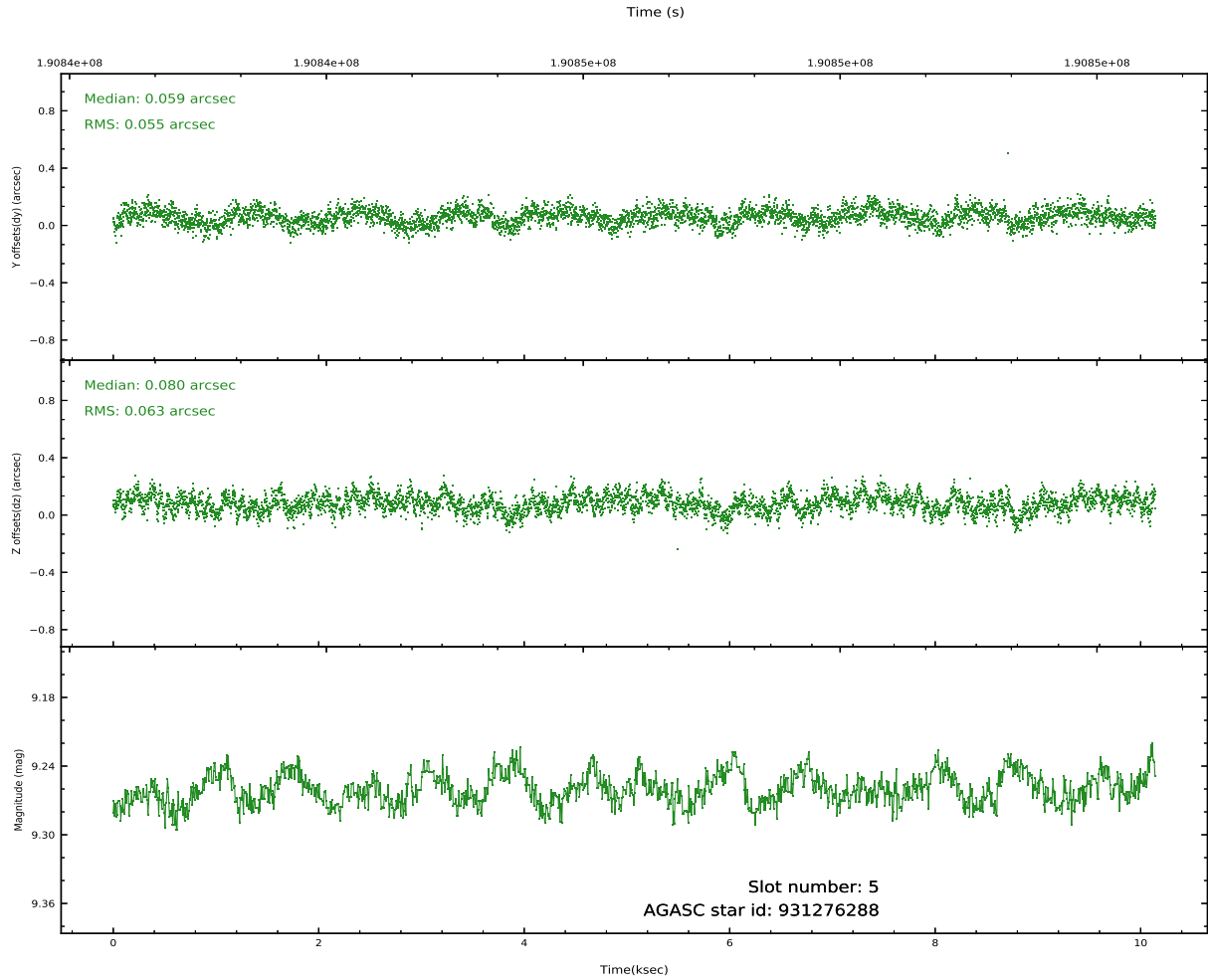
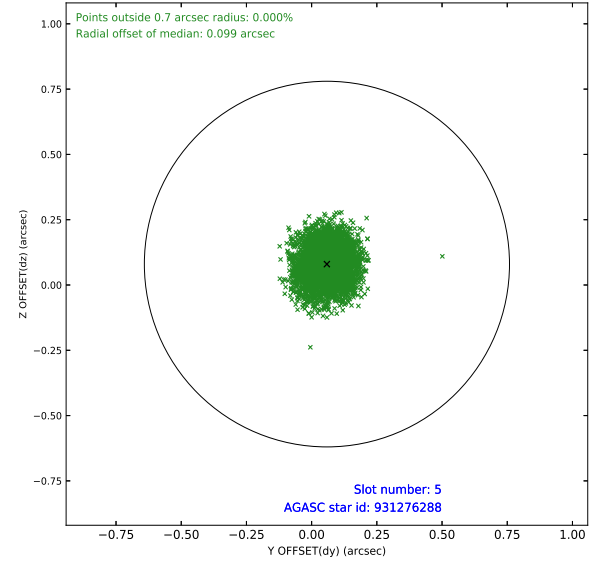
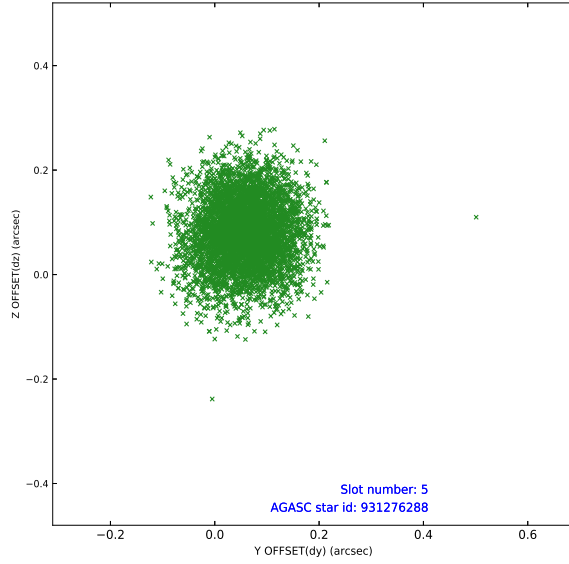
2.4.1 Slot 3



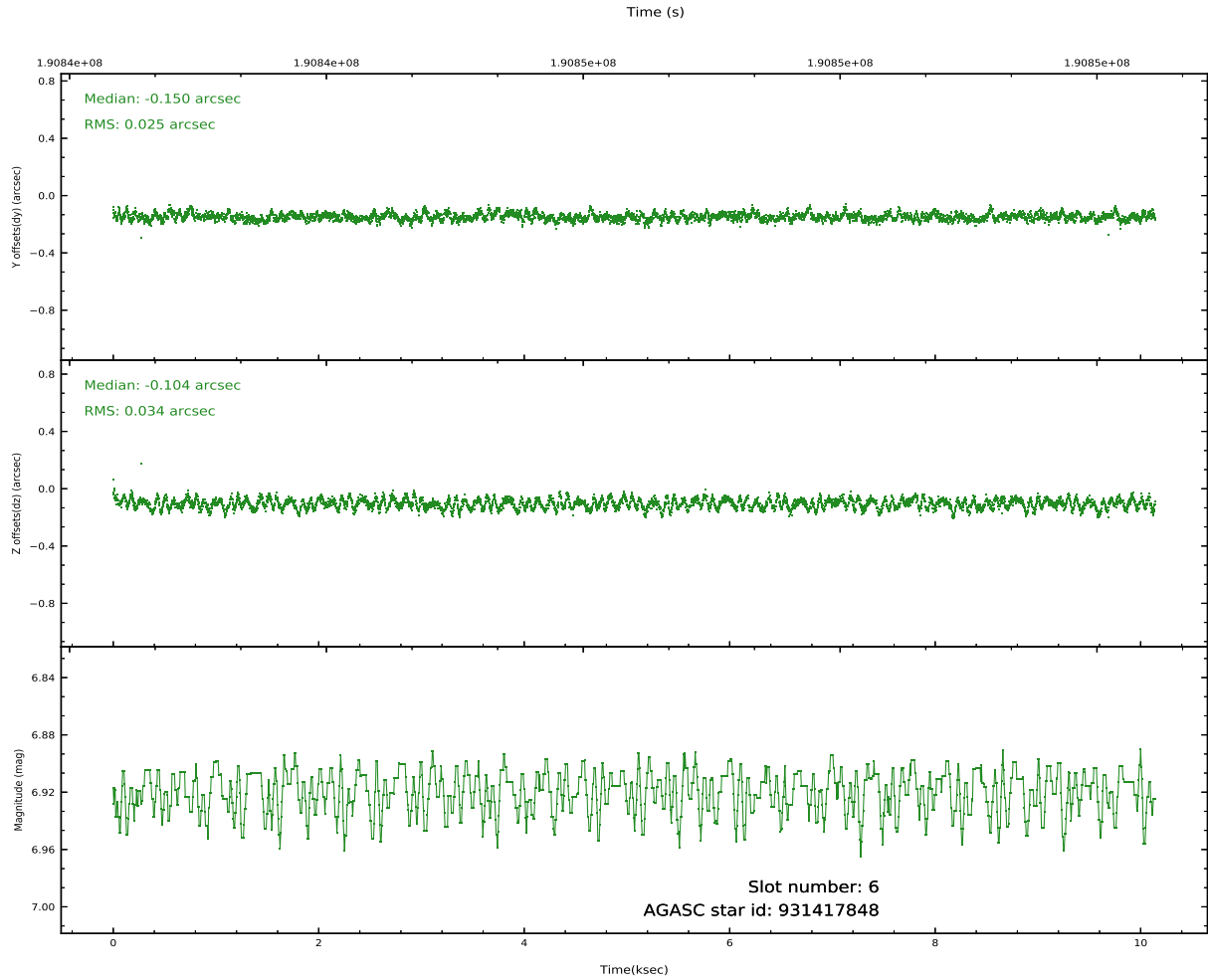
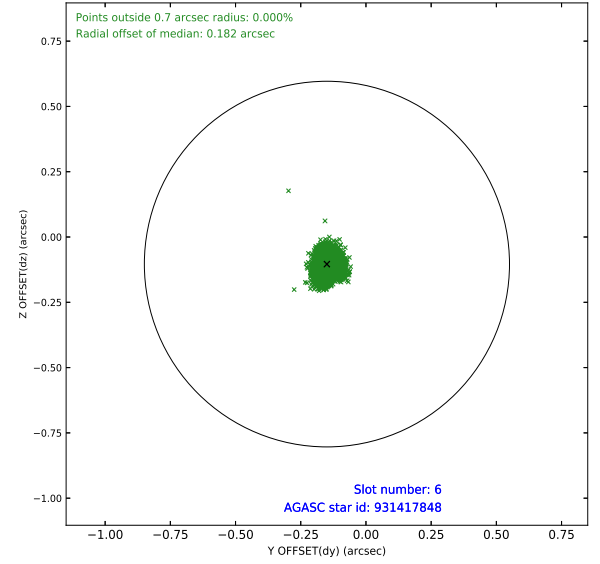
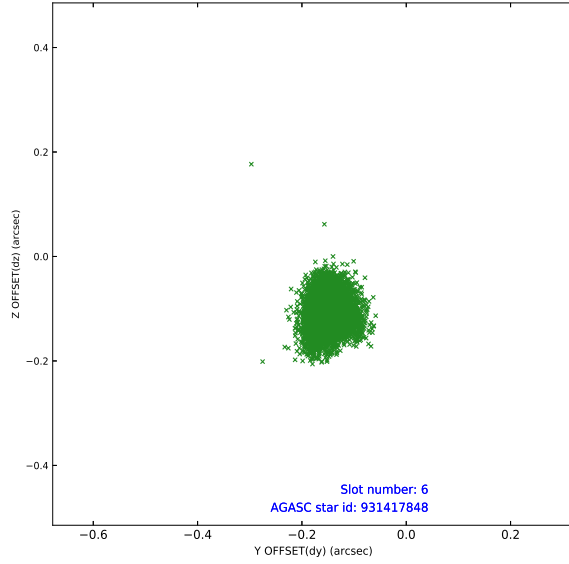
2.4.2 Slot 4



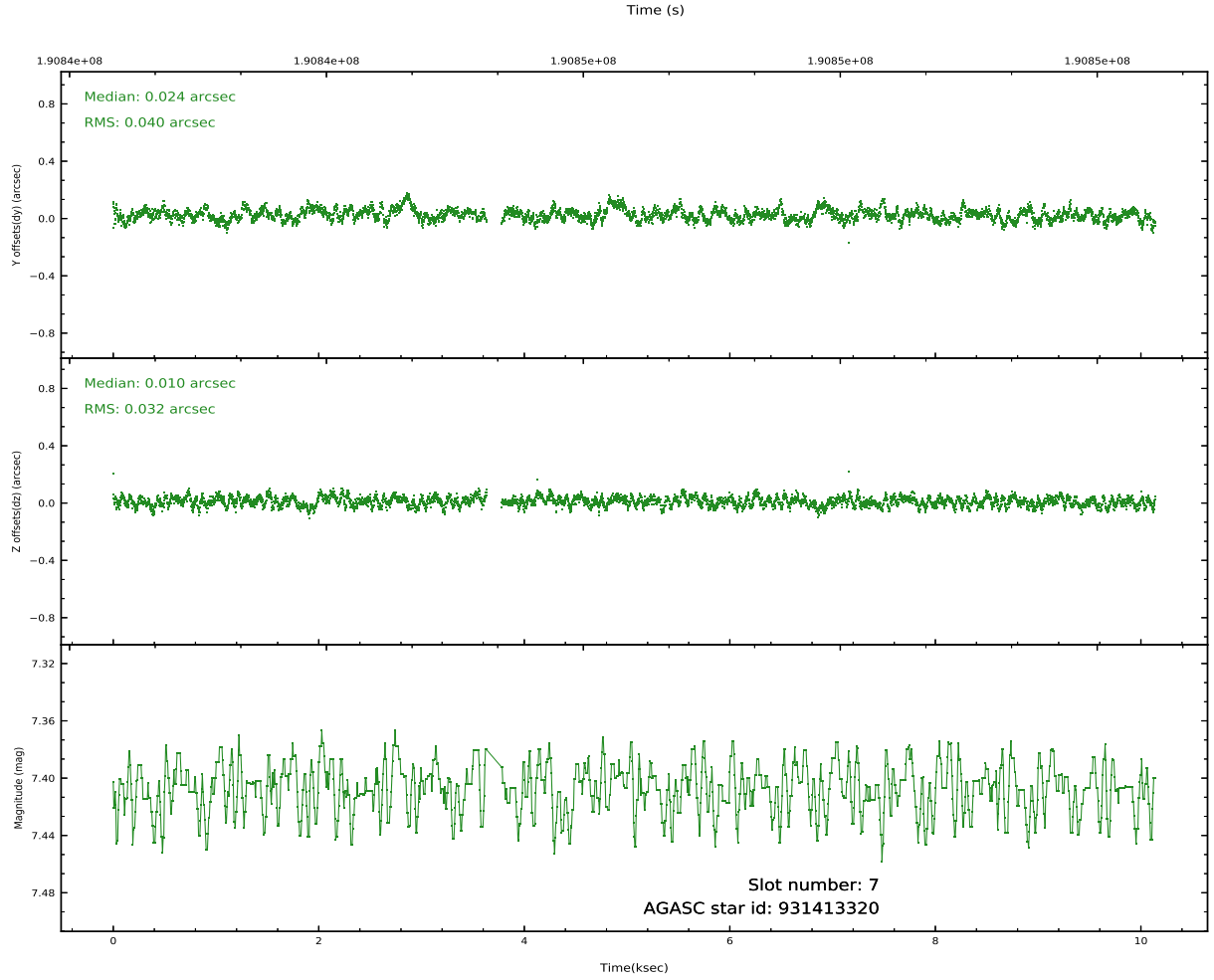
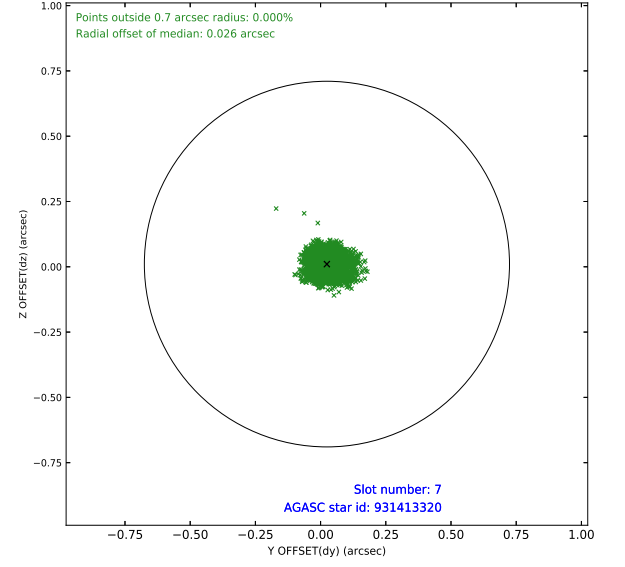
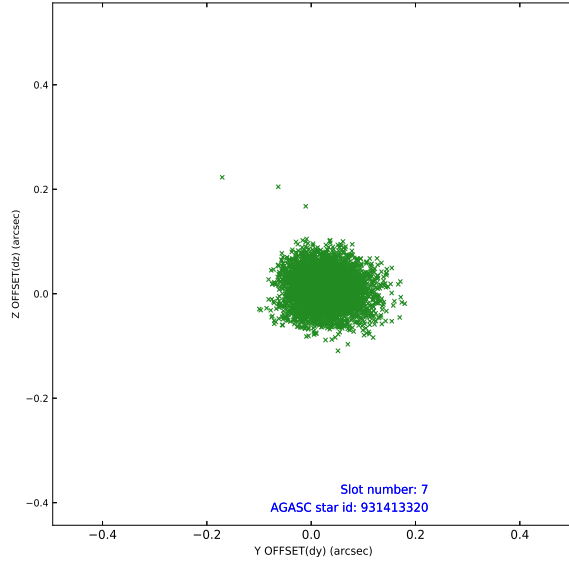
2.4.3 Slot 5



2.4.4 Slot 6

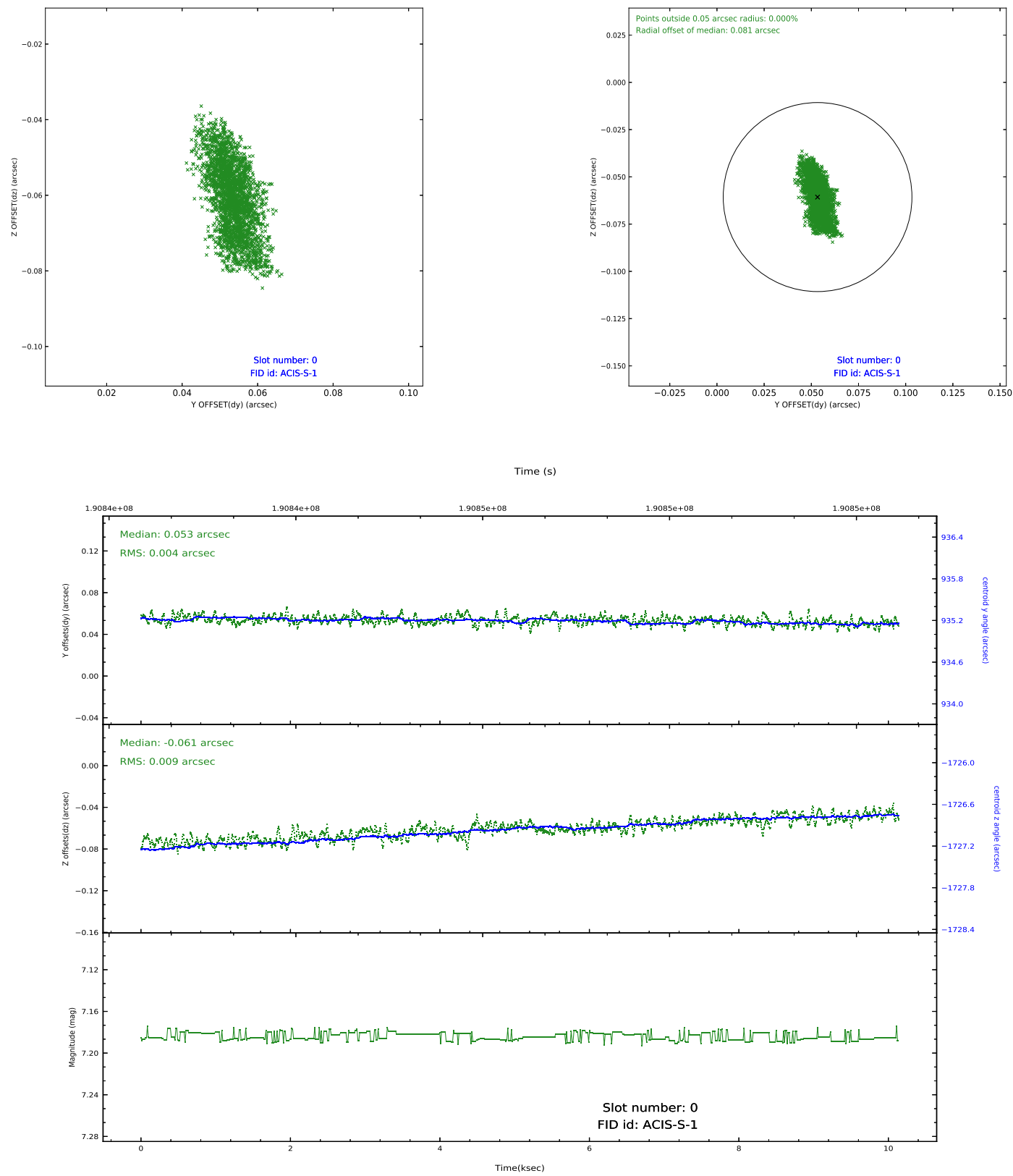


2.4.5 Slot 7

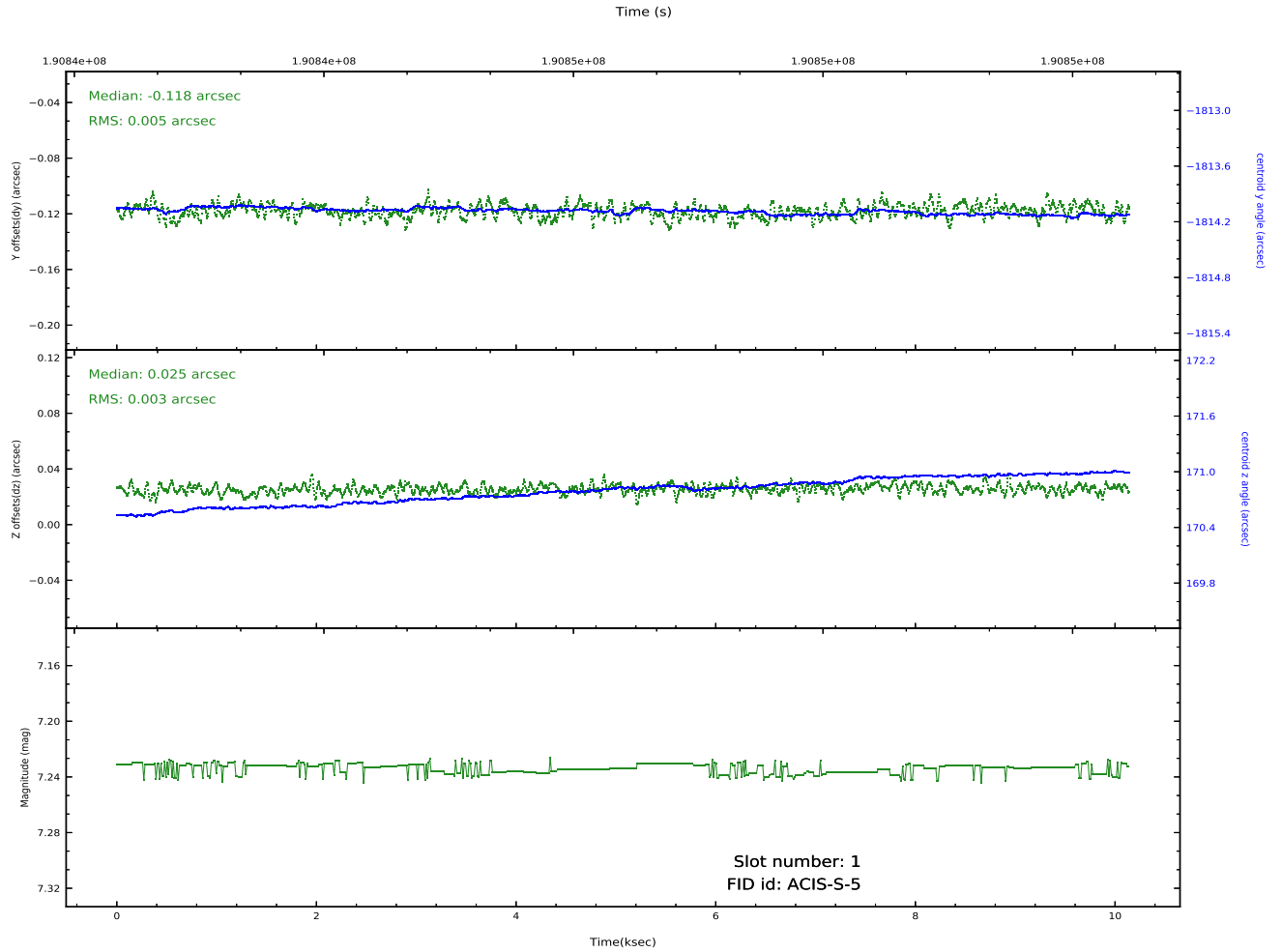
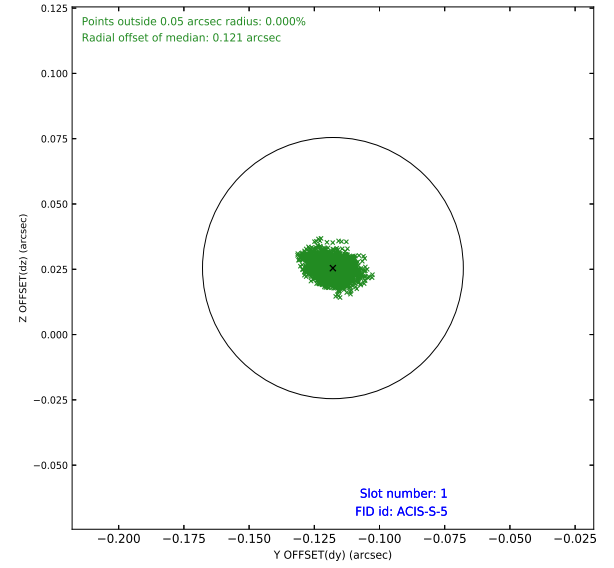
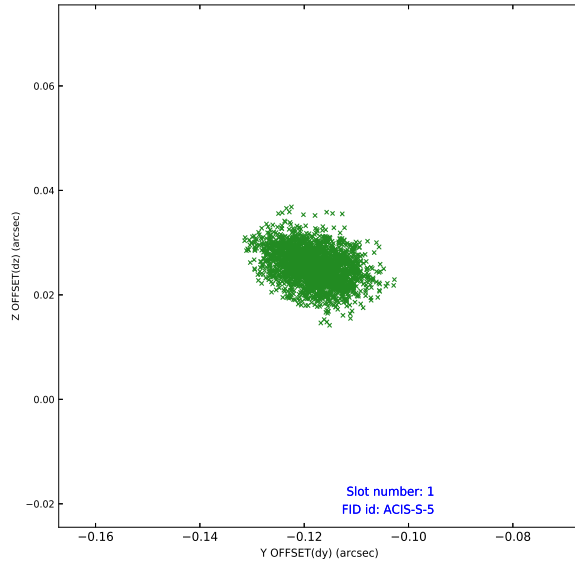


2.5 FID Slots

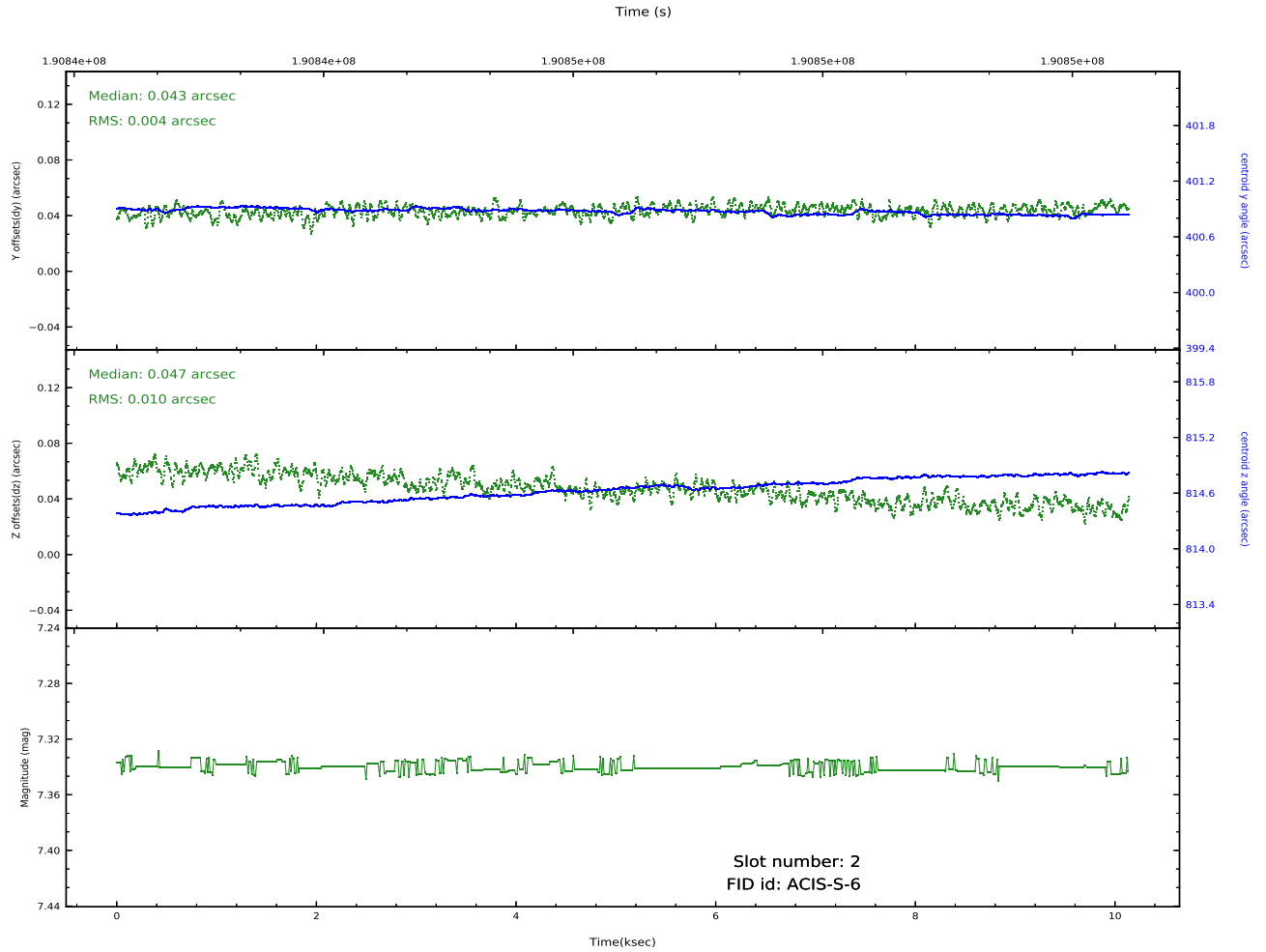
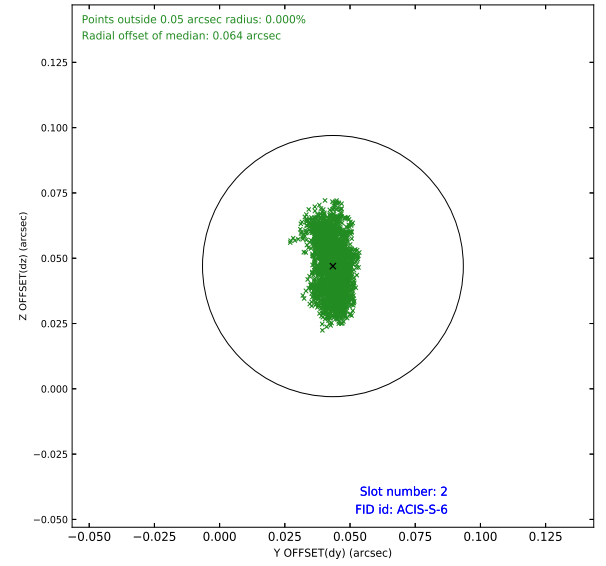
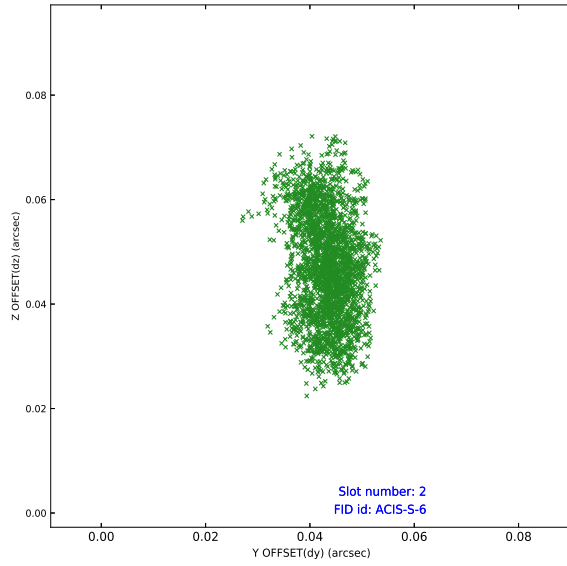
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.137

A.2 Comments