

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6348 - L2 Version 3
Chandra X-Ray Center

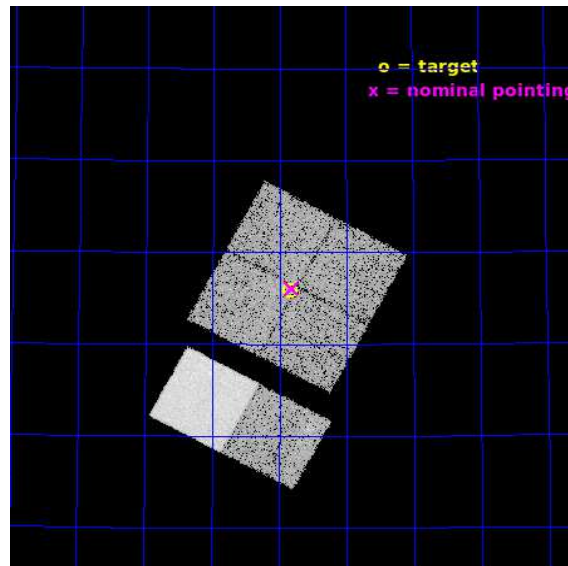
L2 Processing Date : Oct 11 2020

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1 Front

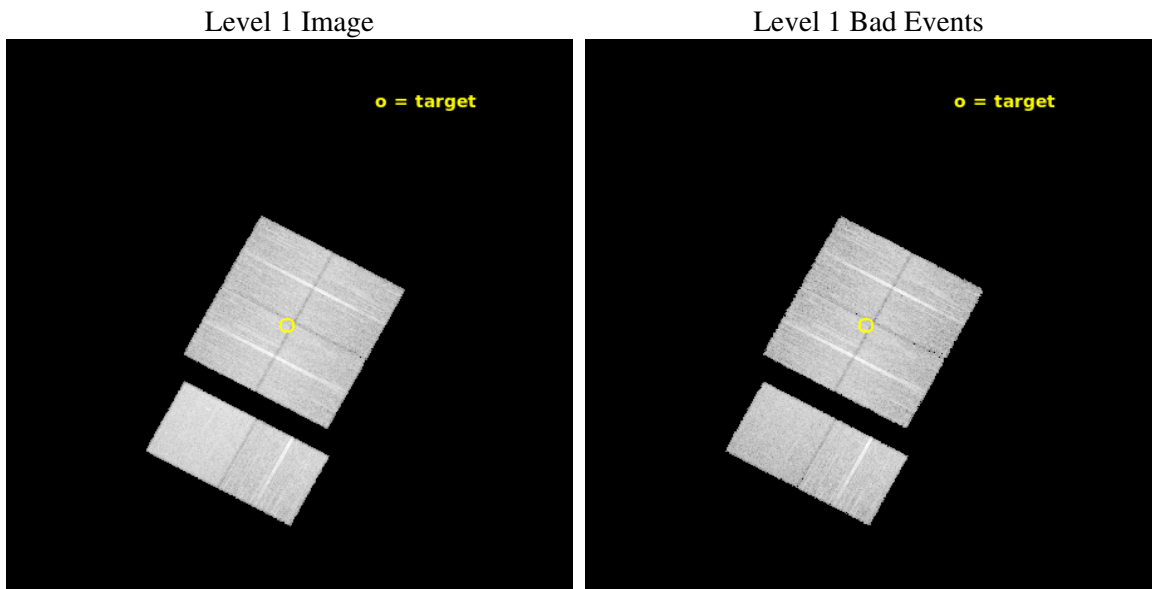
seq_num	900391	Sequence number
obs_id	6348	Observation id
title	Massive Star Life, Death, and Rebirth in the Perseus Arm	Proposal
observer	Leisa Townsley	Principal investigator
object	W3 North	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.711667	Observer's specified target RA [deg]
dec_targ	62.264444	Observer's specified target Dec [deg]
ra_nom	36.703398338012	Nominal RA [deg]
dec_nom	62.267567446229	Nominal Dec [deg]
roll_nom	208.30388432998	Nominal Roll [deg]
revision	3	Processing version of data
ontime	12156.799954712	Sum of GTIs [s]
livetime	12002.86323374	Livetime [s]
ontime0	12156.799954712	Sum of GTIs [s]
ontime1	12156.799954712	Sum of GTIs [s]
ontime2	12156.799954712	Sum of GTIs [s]
ontime3	12156.799954712	Sum of GTIs [s]
ontime6	12147.077013582	Sum of GTIs [s]
ontime7	12156.799954712	Sum of GTIs [s]
l2events	101265	Number of level 2 events



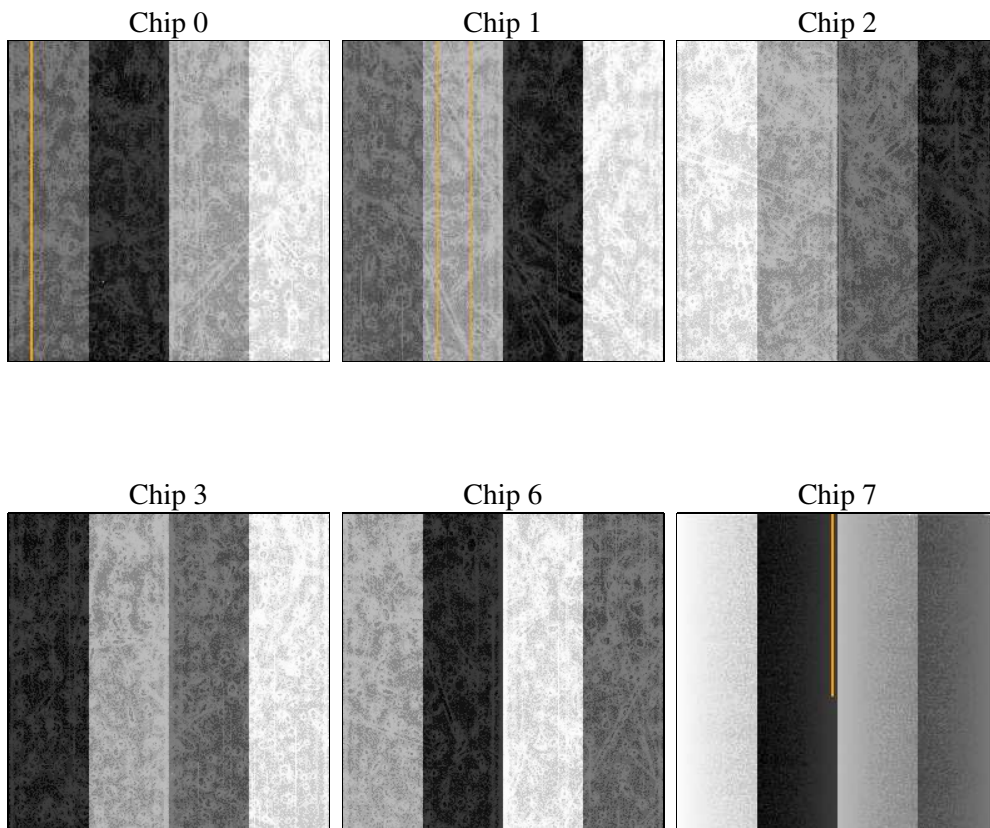
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	12156.799954712	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	12156.799954712	Sum of GTIs [s]
date	2020-10-11T16:04:18	Date and time of file creation	ontime1	12156.799954712	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	12156.799954712	Sum of GTIs [s]
			ontime3	12156.799954712	Sum of GTIs [s]
			ontime6	12147.077013582	Sum of GTIs [s]
			ontime7	12156.799954712	Sum of GTIs [s]
			l1events	634166	Number of level 1 events

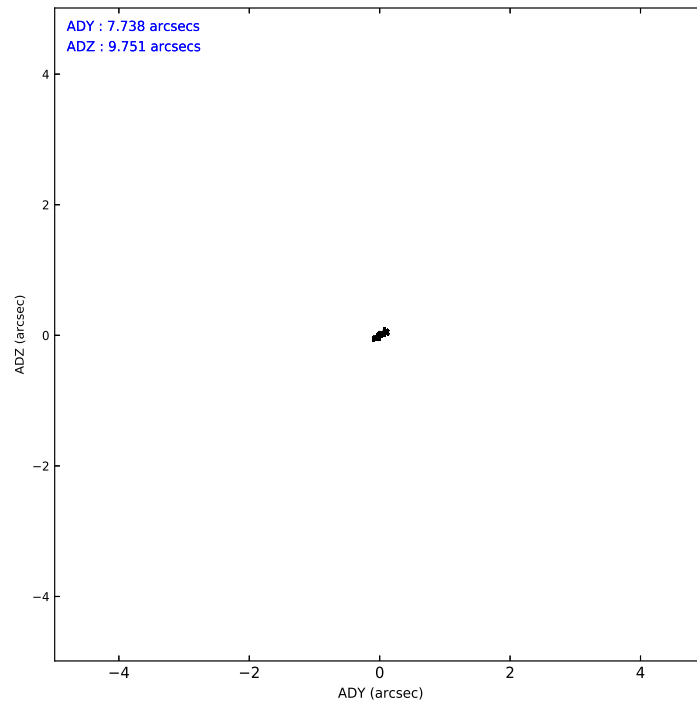
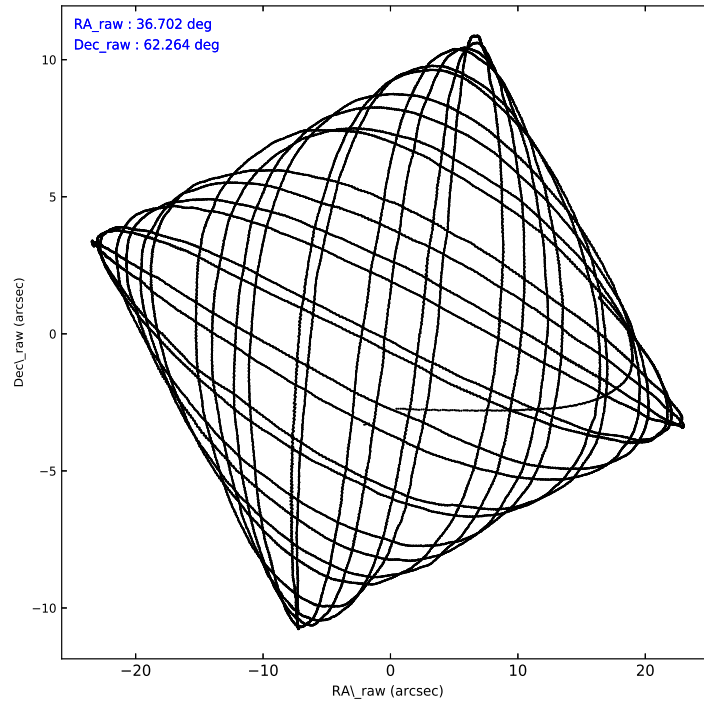
2.1.4 Events

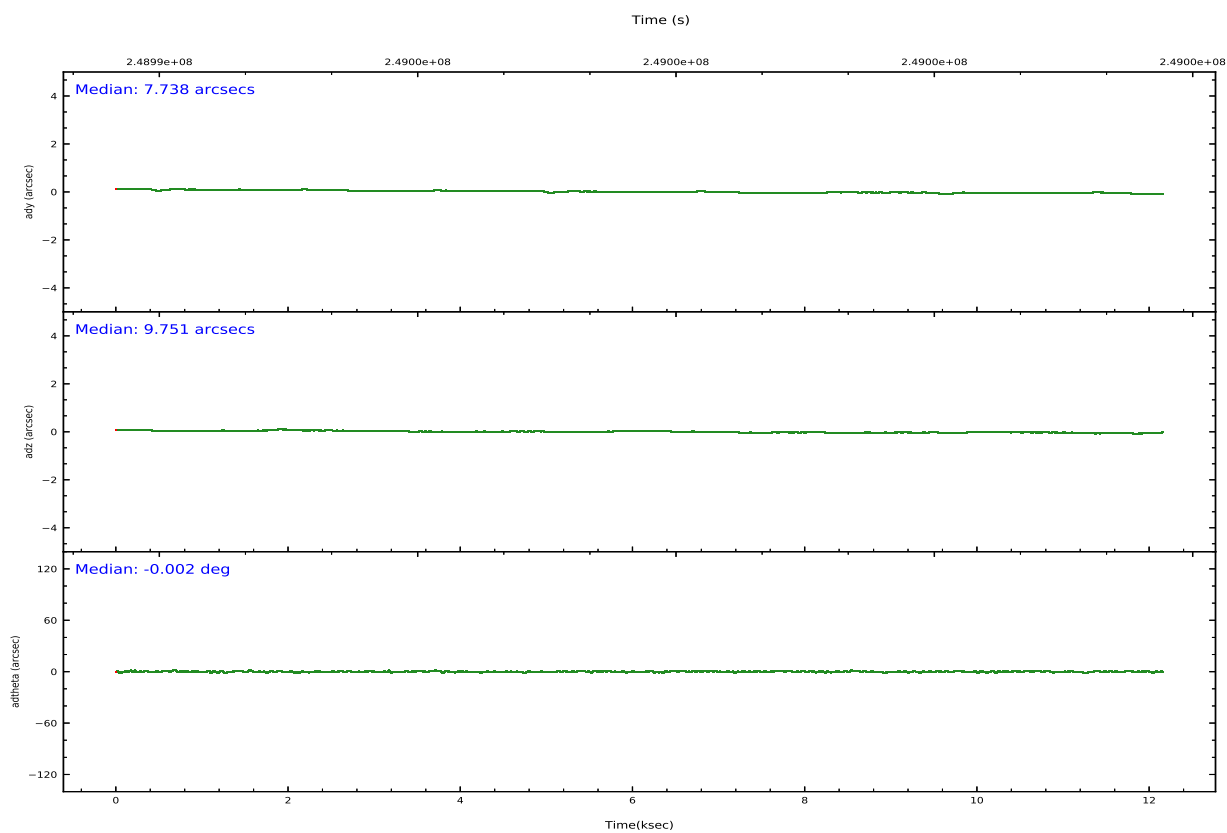
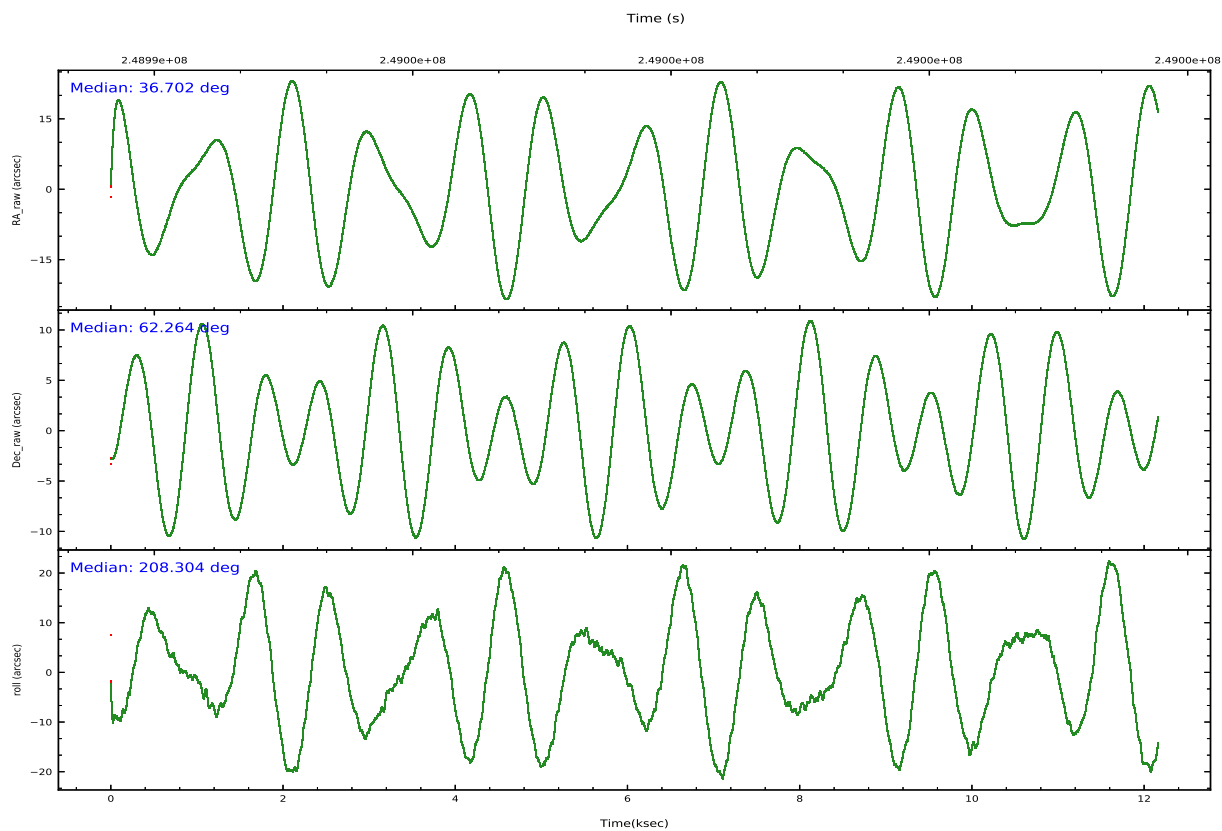
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	91014	94222	102155	100414	108219	138142	grade 0 events	4910	4766	5280	5123	5076	4831
rejected events	79845	82318	91051	89232	96194	84839		5%	5%	5%	5%	4%	3%
rejected %	87%	87%	89%	88%	88%	61%	grade 1 events	60	60	73	81	61	118
								0%	0%	0%	0%	0%	0%
							grade 2 events	2567	2862	2374	2369	2725	11259
								2%	3%	2%	2%	2%	8%
							grade 3 events	1172	1217	1029	1204	1200	4952
								1%	1%	1%	1%	1%	3%
							grade 4 events	1098	1214	1108	1095	1211	4748
								1%	1%	1%	1%	1%	3%
							grade 5 events	3953	4323	3896	4636	4884	13110
								4%	4%	3%	4%	4%	9%
							grade 6 events	2055	2536	1936	2049	2457	30693
								2%	2%	1%	2%	2%	22%
							grade 7 events	75199	77244	86459	83857	90605	68431
								82%	81%	84%	83%	83%	49%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	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	36.732492	36.703398338012	Subarray requested	NONE	NONE
[deg] Pointing Dec	62.287362	62.267567446229	Alternating exposures requested	N	N
[deg] Pointing Roll	208.068031	208.30388432998	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	248991658.184000	248990243.86793			
Observation start date	2005-11-21T20:19:54	2005-11-21T19:57:23			
[s] Observation end time (MET)	249003658.184000	249004350.43108			
Observation end date	2005-11-21T23:39:54	2005-11-21T23:52:30			
Read mode	TIMED	TIMED			

2.3 Aspect



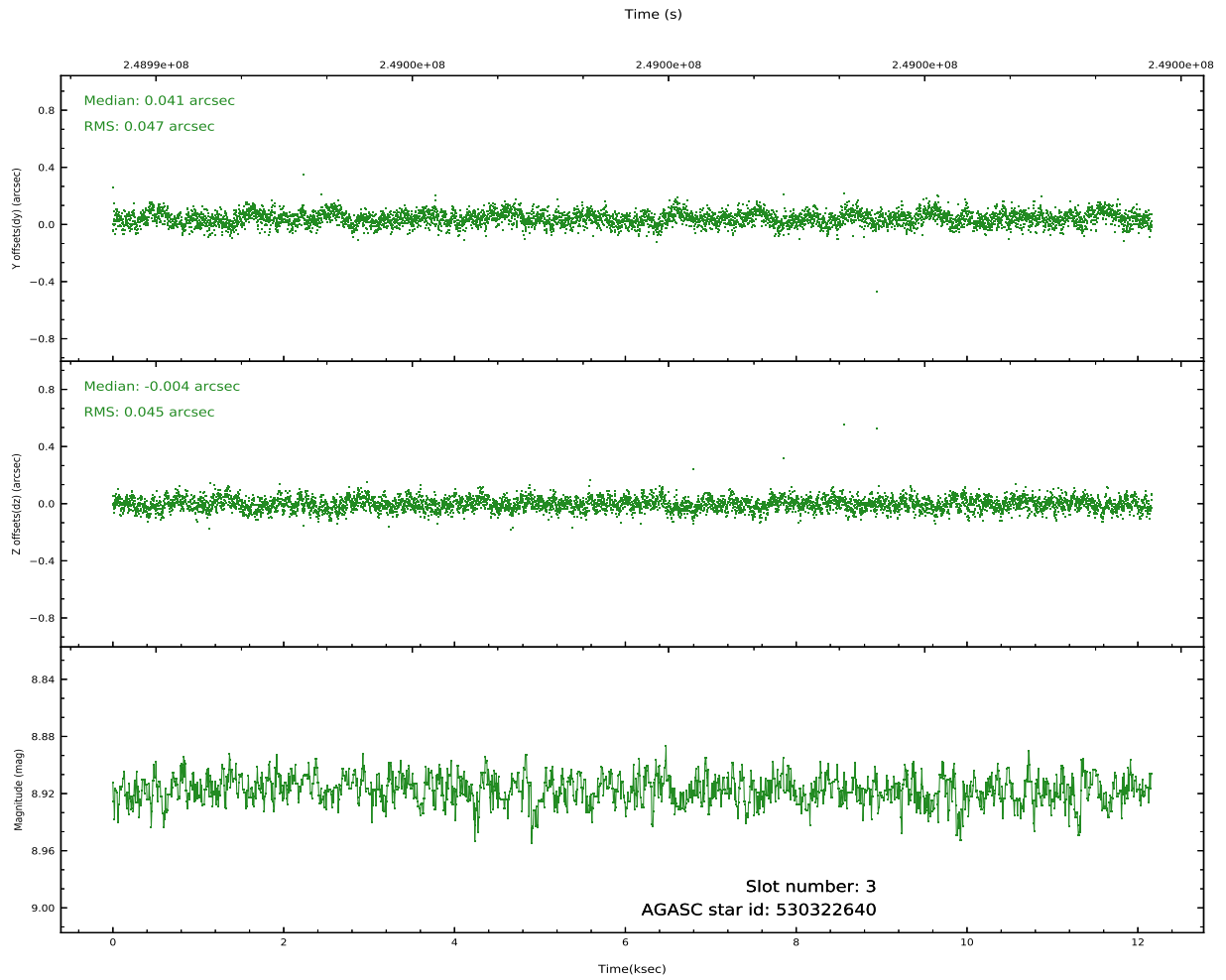
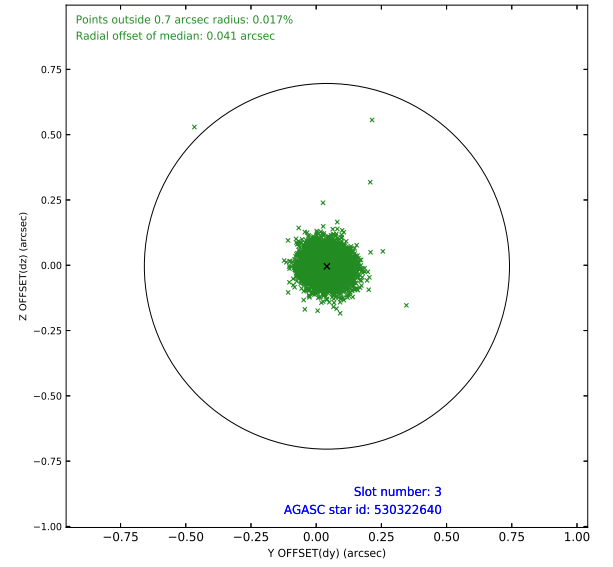
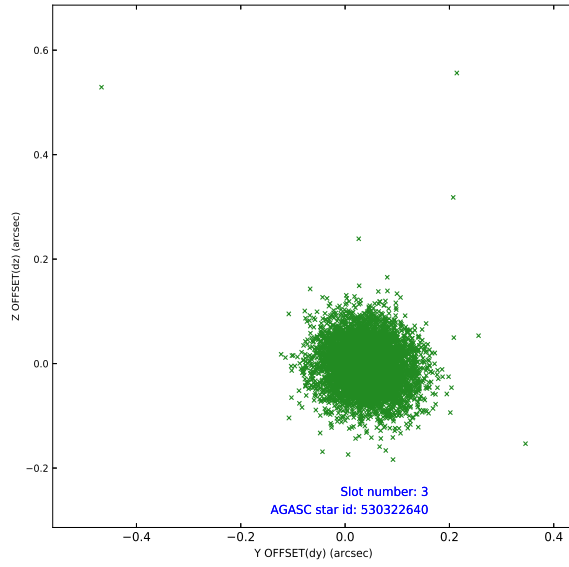


Slot Statistics

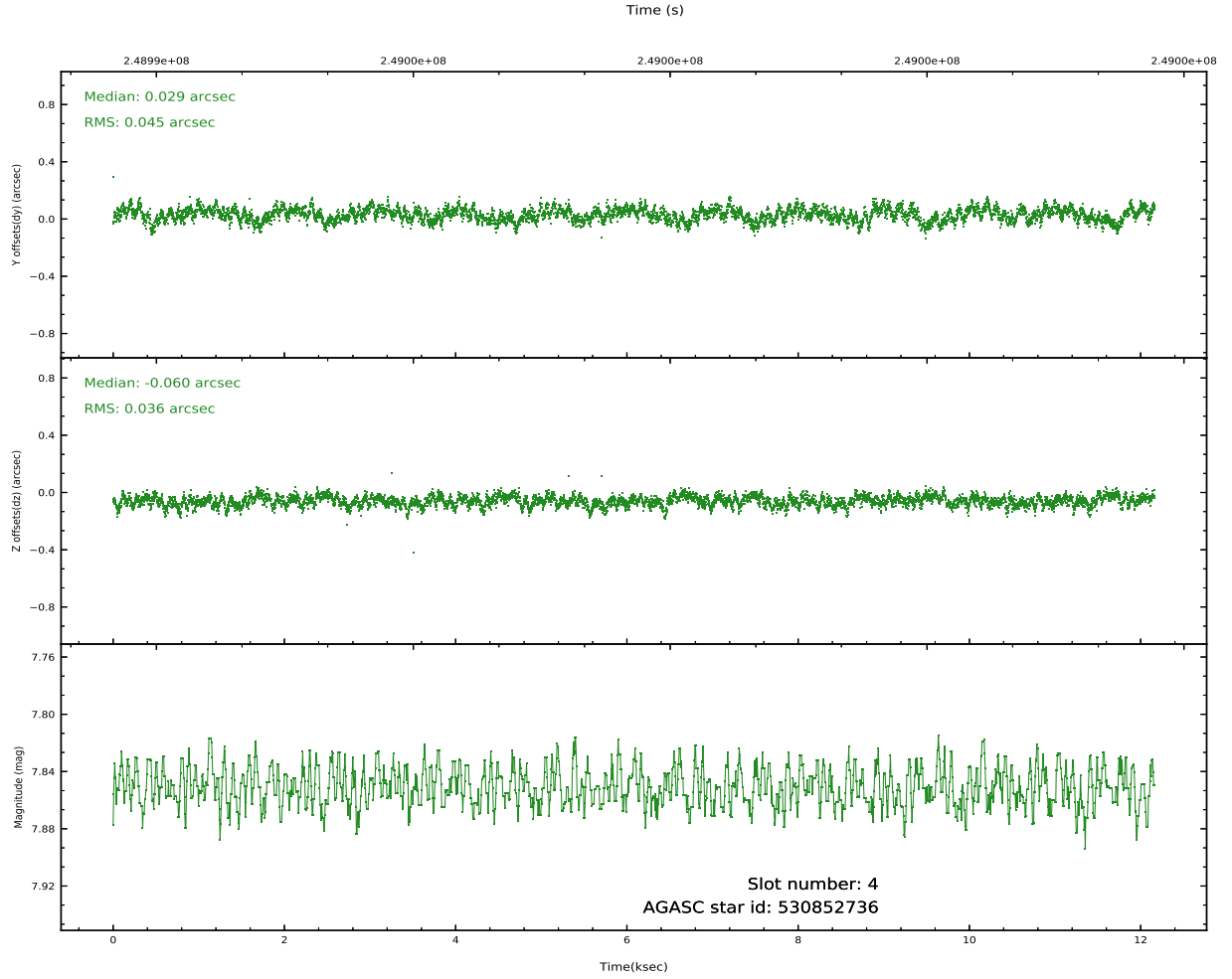
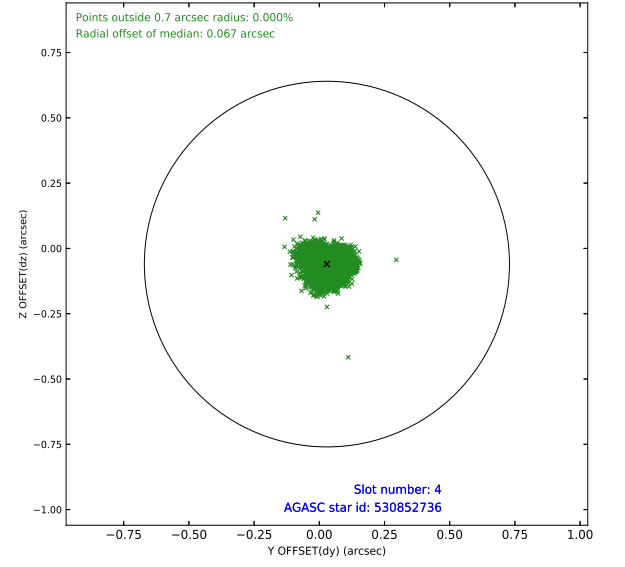
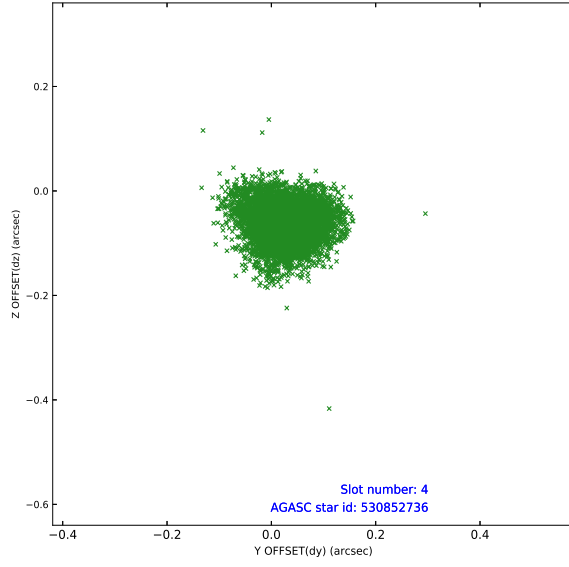
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.15	2967	1.000	-0.027	-0.093	0.010	0.022	0.000000	0.000000	-762.29	-839
1	FID		ACIS-I-5	7.23	2966	1.000	-0.184	0.048	0.008	0.015	0.000000	0.000000	-1816.72	1064
2	FID		ACIS-I-6	7.26	2967	1.000	0.117	0.114	0.007	0.012	0.000000	0.000000	397.14	1709
3	GUIDE	used	530322640	8.92	5925	1.000	0.041	-0.004	0.068	0.111	35.878914	61.773652	2148.56	939
4	GUIDE	used	530852736	7.85	5934	1.000	0.029	-0.060	0.061	0.100	37.086329	62.219010	-408.91	495
5	GUIDE	used	530862272	8.83	5931	1.000	-0.012	0.003	0.063	0.105	36.216069	62.475924	437.36	-1006
6	GUIDE	used	530862896	8.91	5930	1.000	0.066	0.104	0.081	0.133	35.753276	62.216485	1564.91	-558
7	GUIDE	used	530850752	7.39	5933	1.000	-0.121	-0.043	0.056	0.084	36.960051	62.890600	-1350.89	-1741

2.4 Star Slots

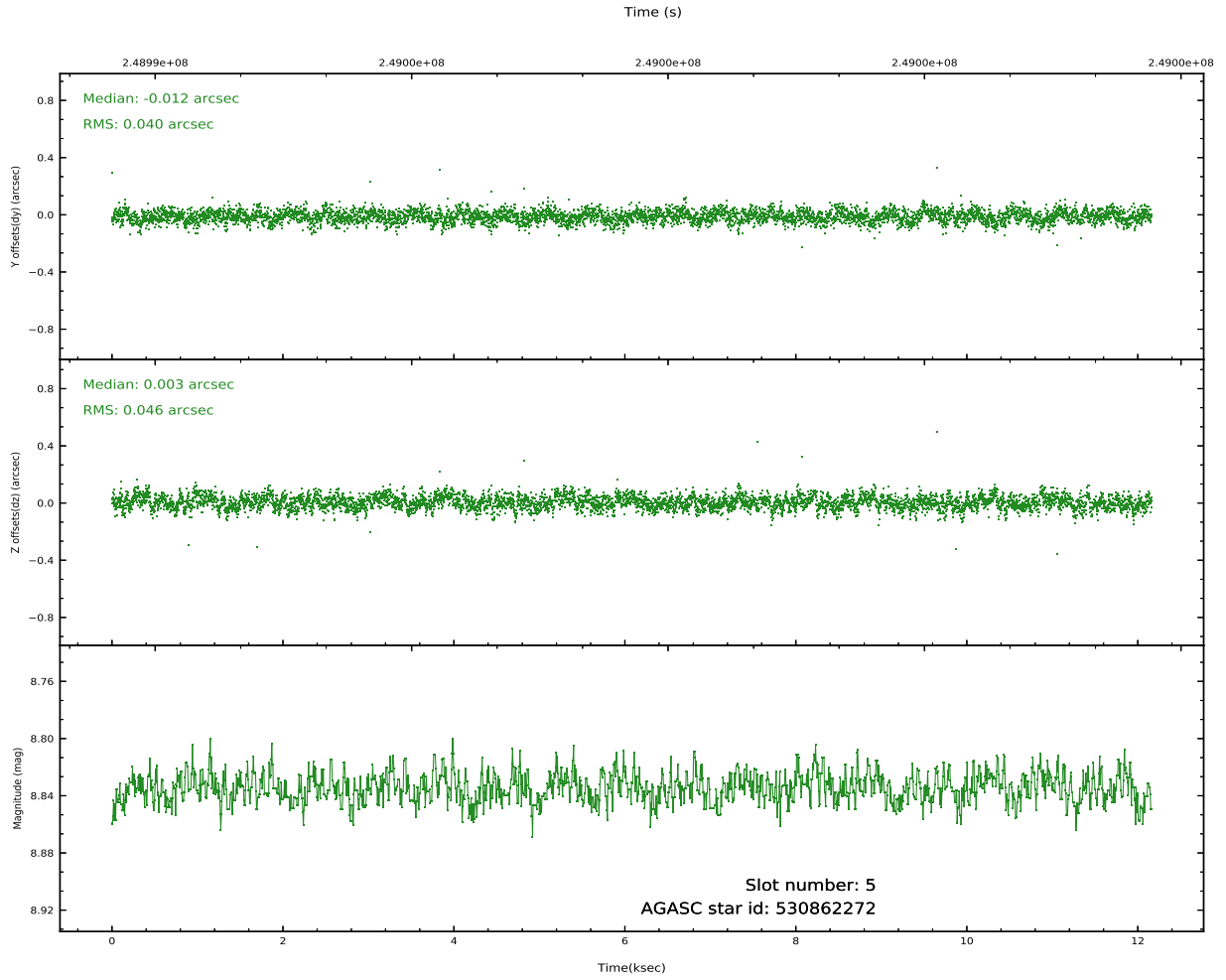
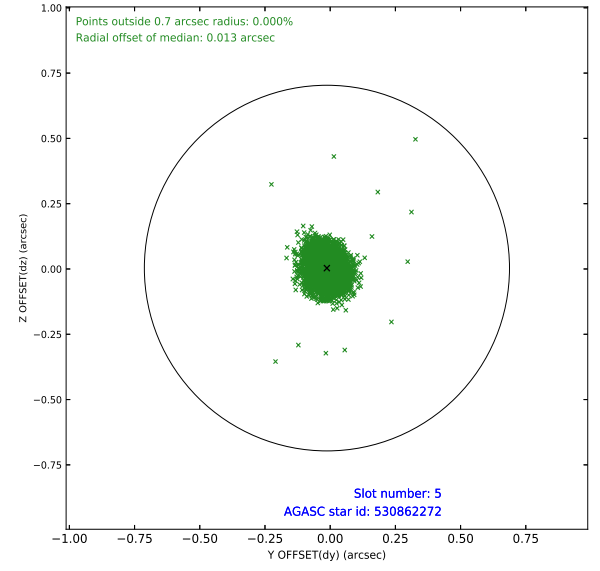
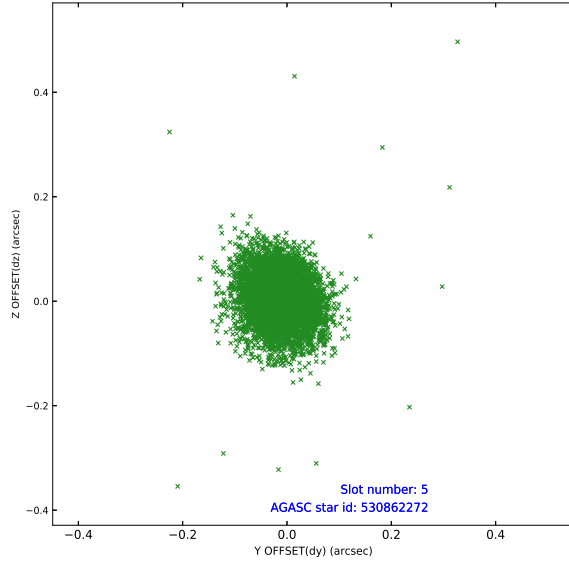
2.4.1 Slot 3



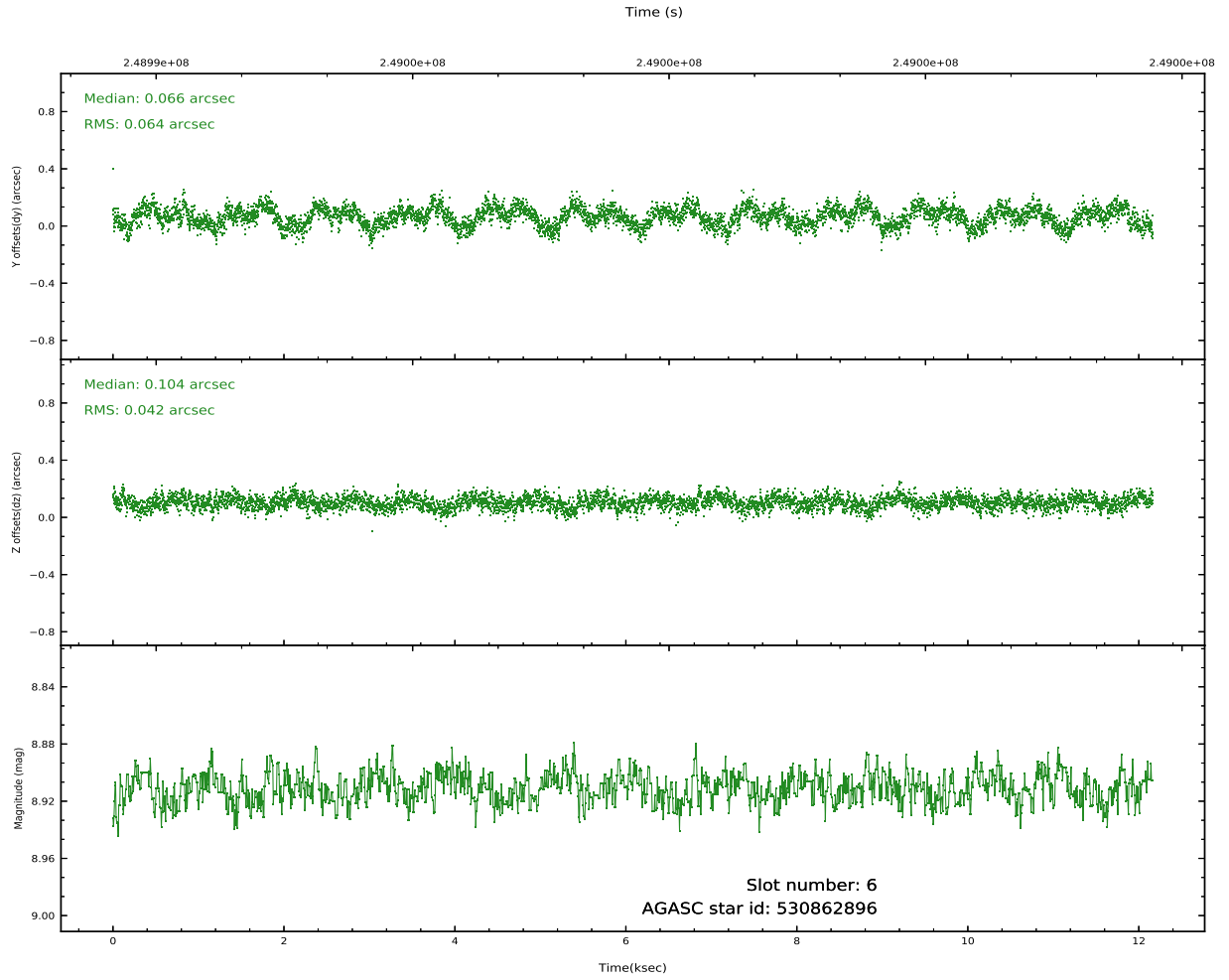
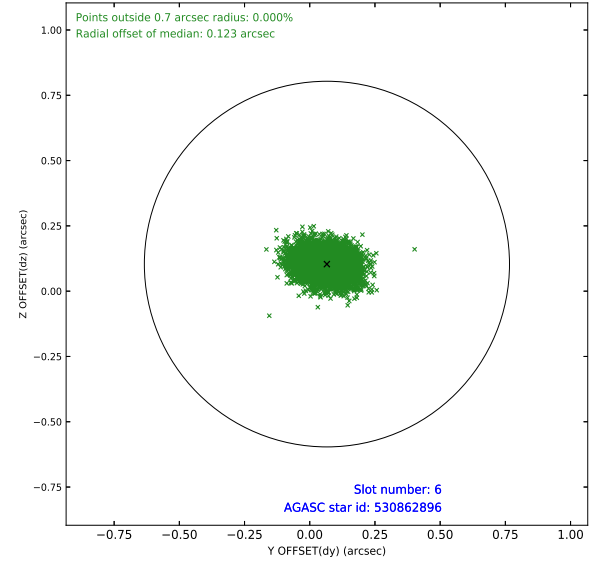
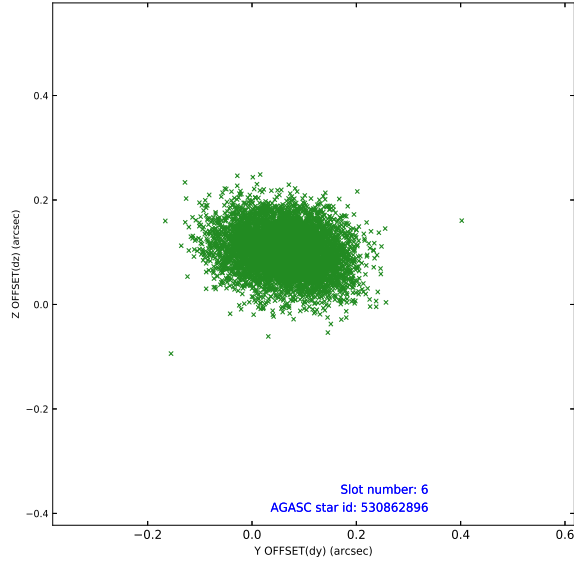
2.4.2 Slot 4



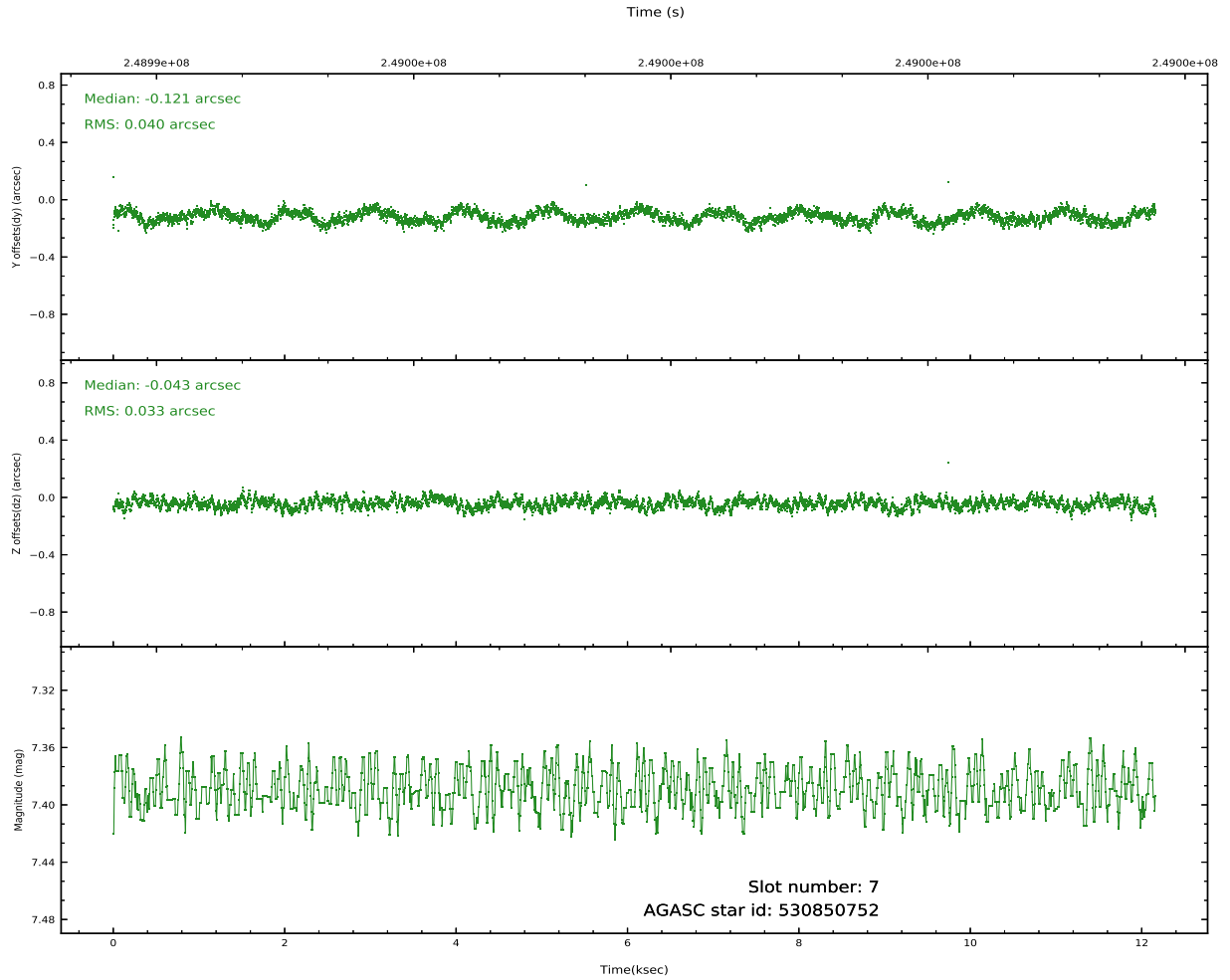
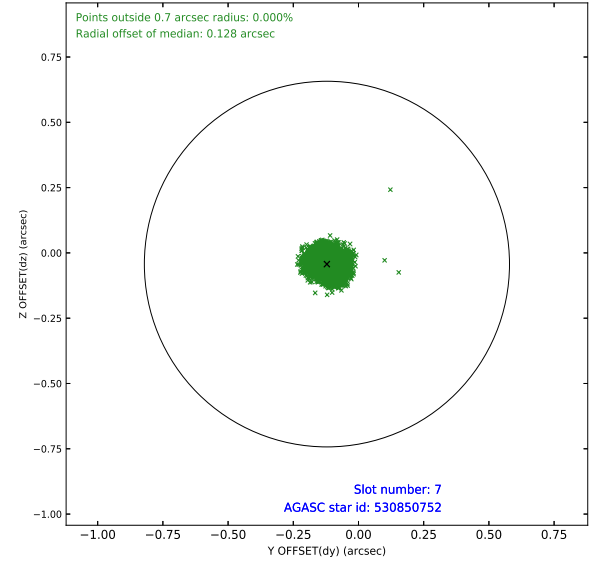
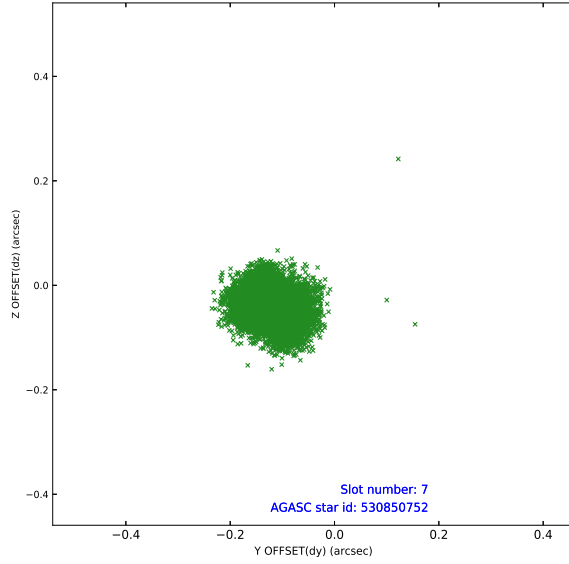
2.4.3 Slot 5



2.4.4 Slot 6

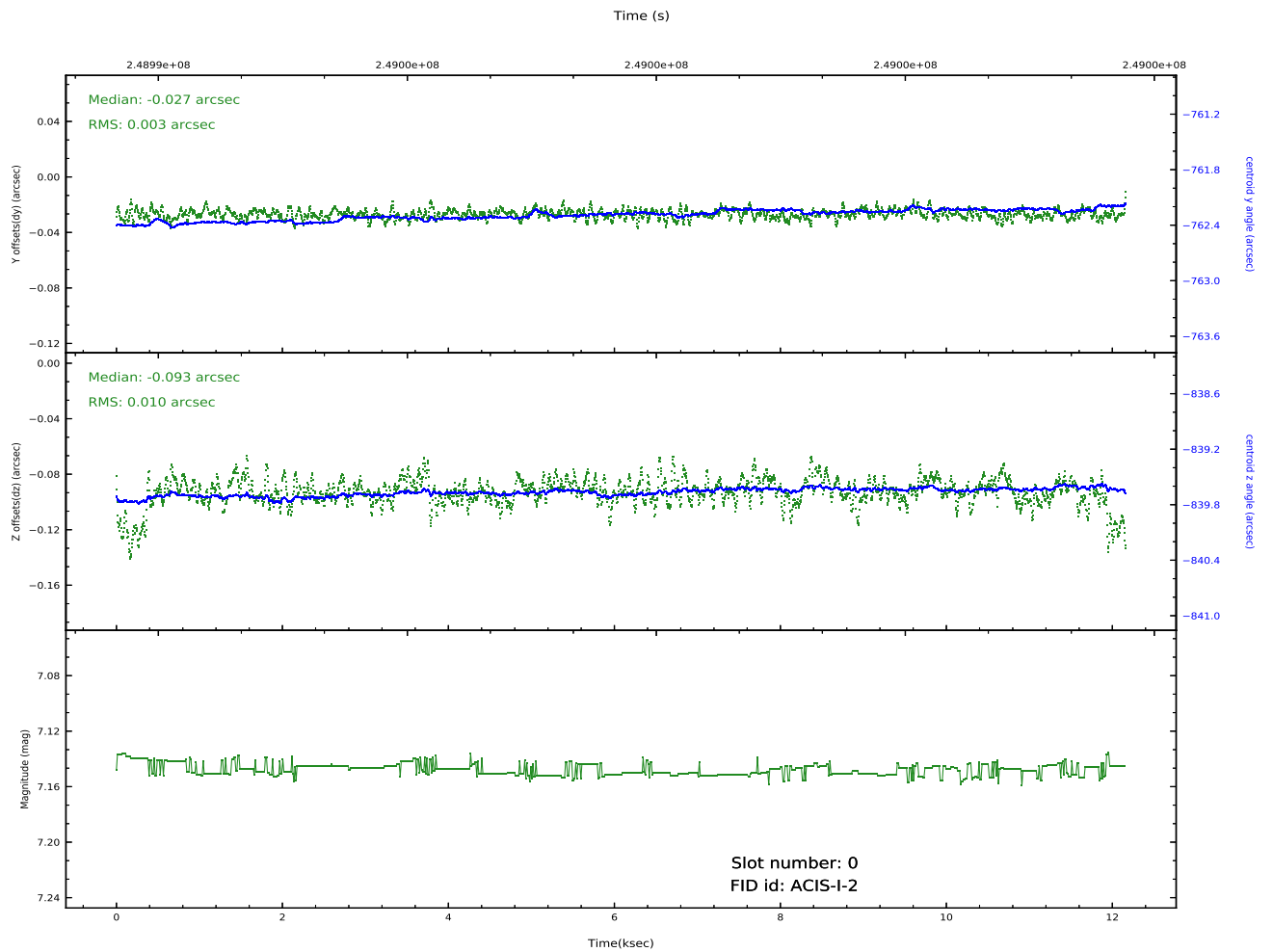
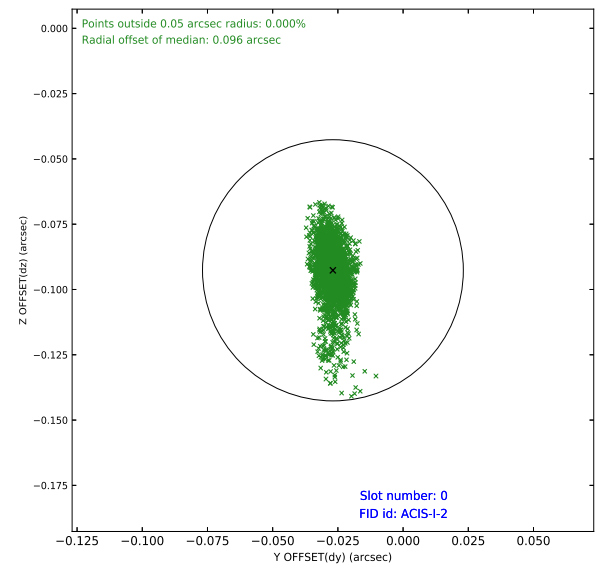
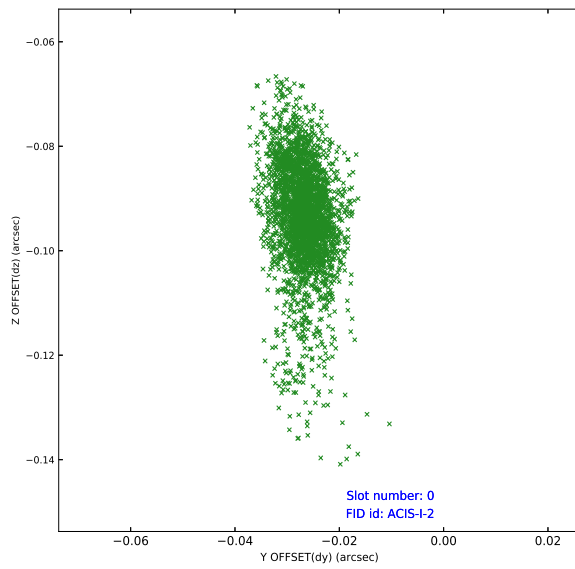


2.4.5 Slot 7

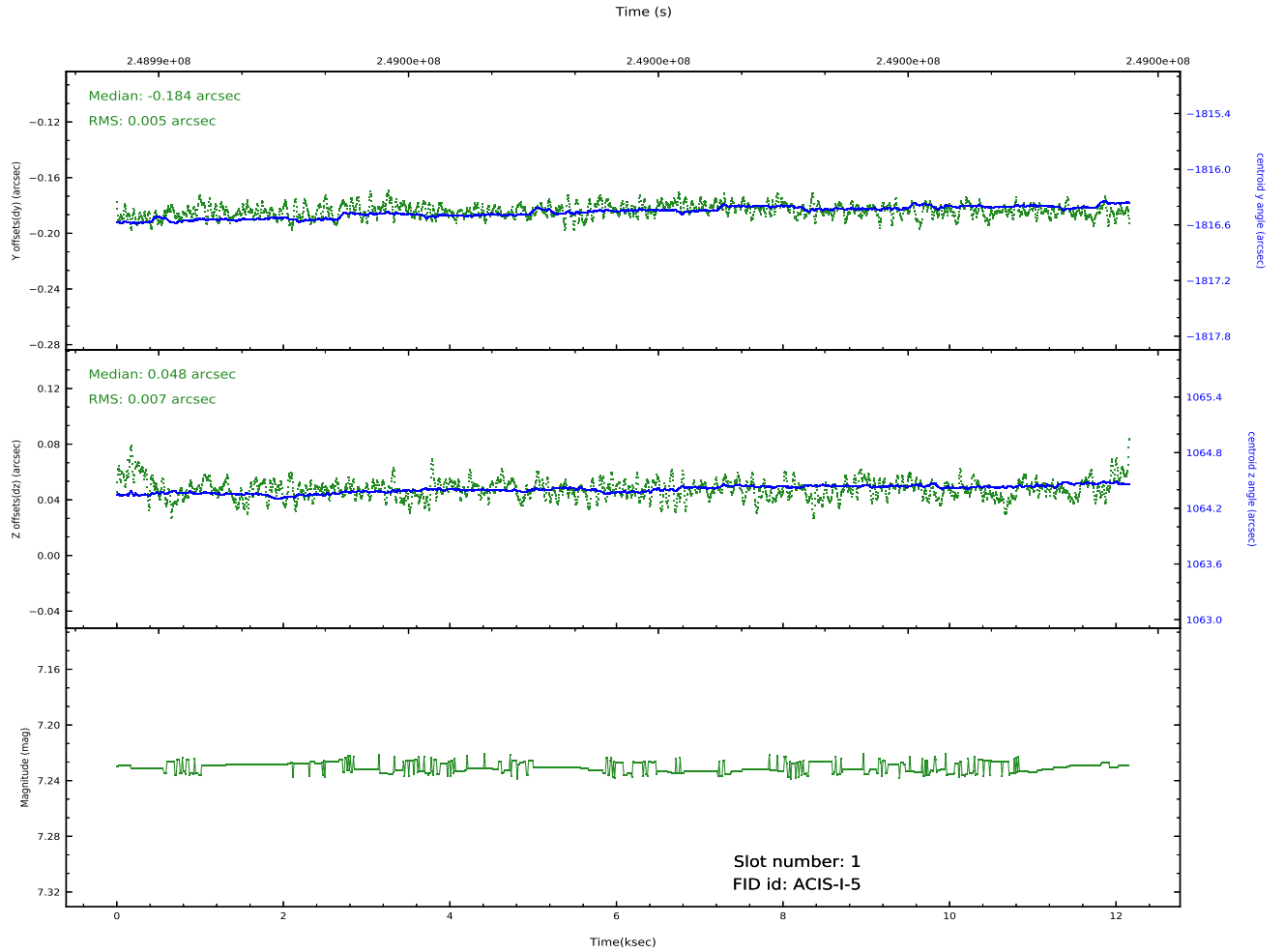
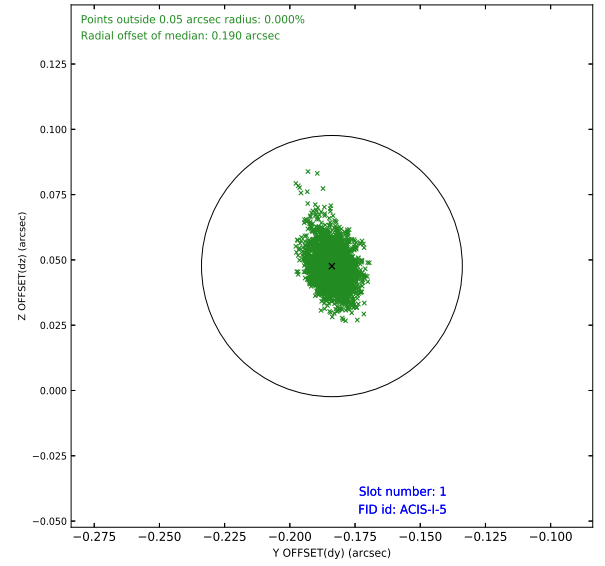
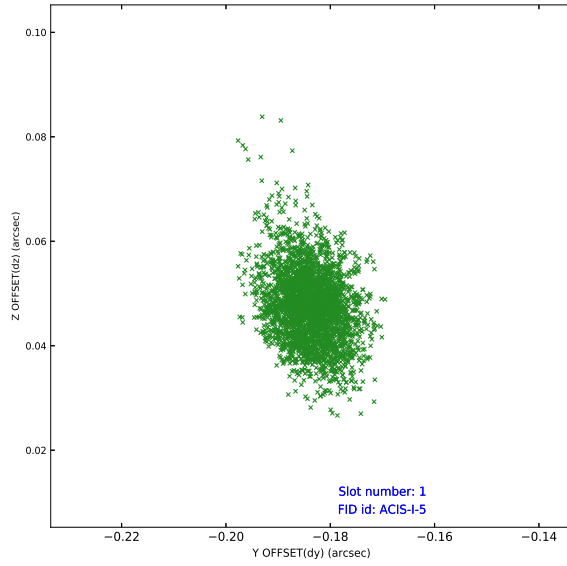


2.5 FID Slots

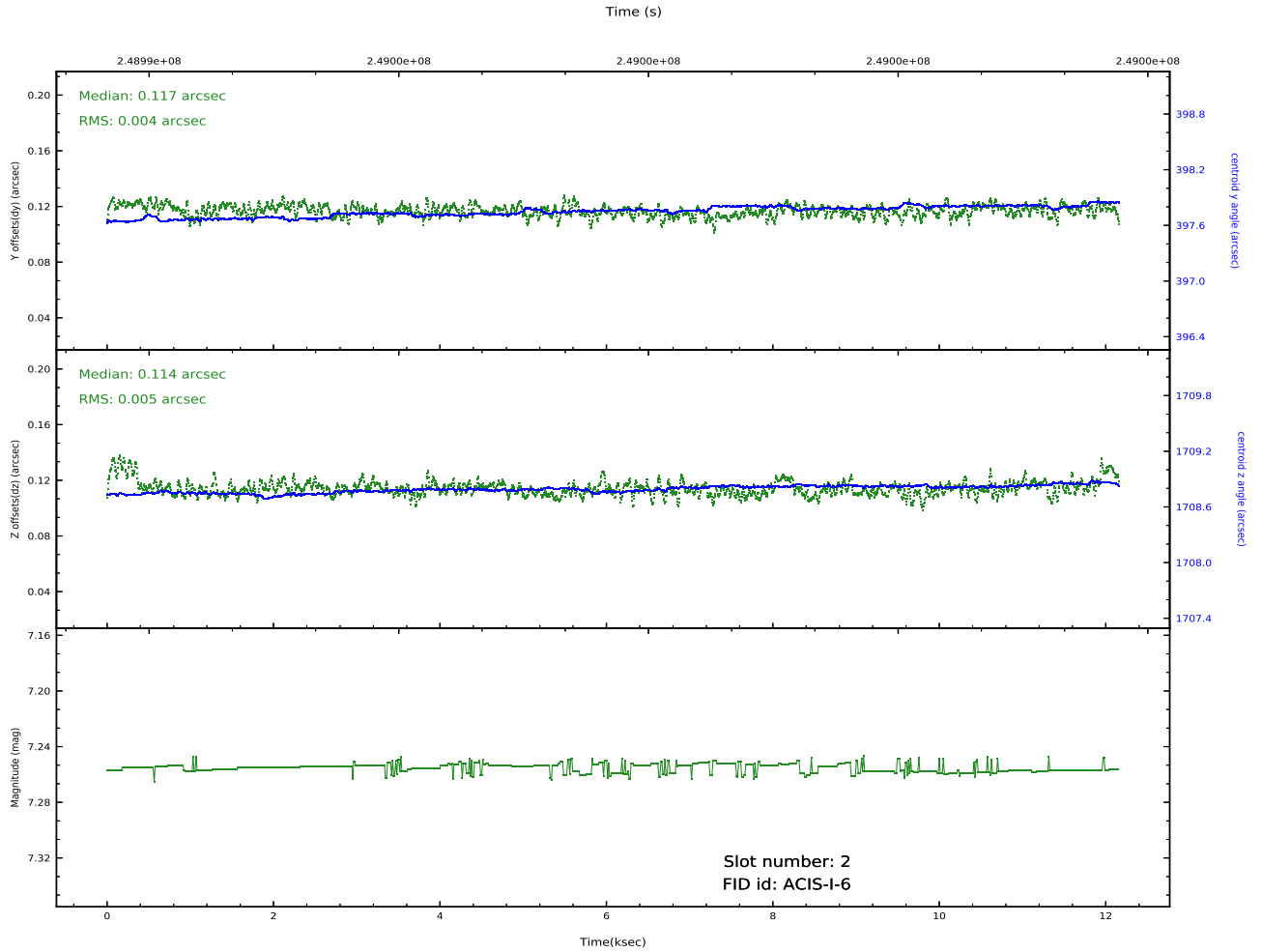
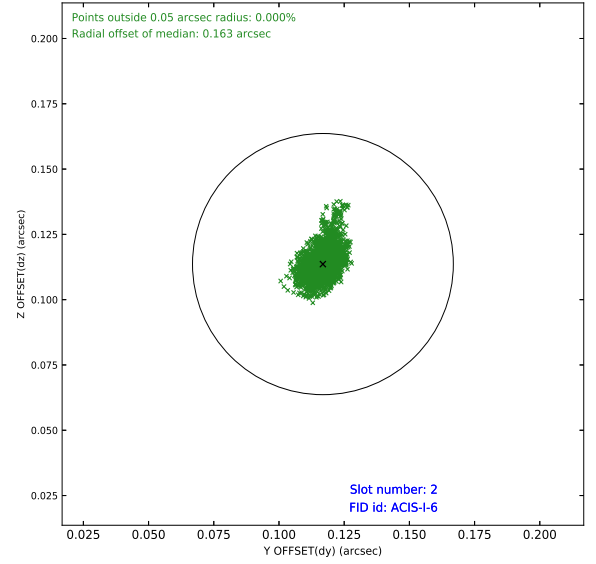
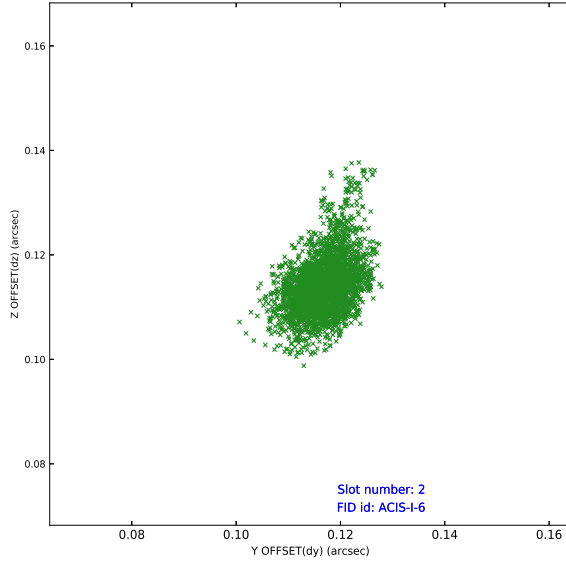
2.5.1 Slot 0



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)	2020.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.15679

A.2 Comments