

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5145 - L2 Version 4
Chandra X-Ray Center

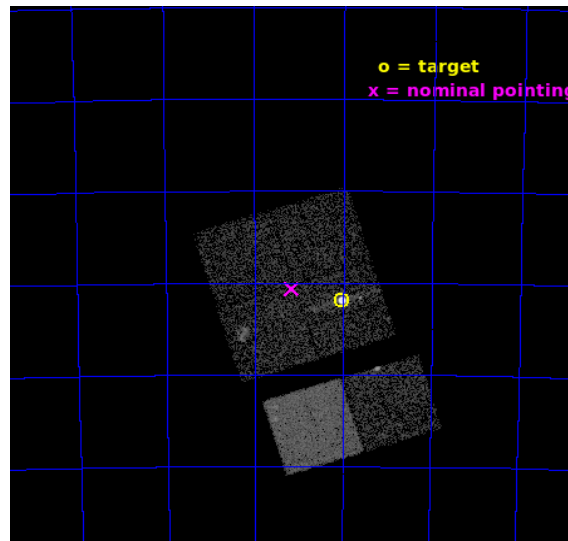
L2 Processing Date : Sep 25 2020

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1 Front

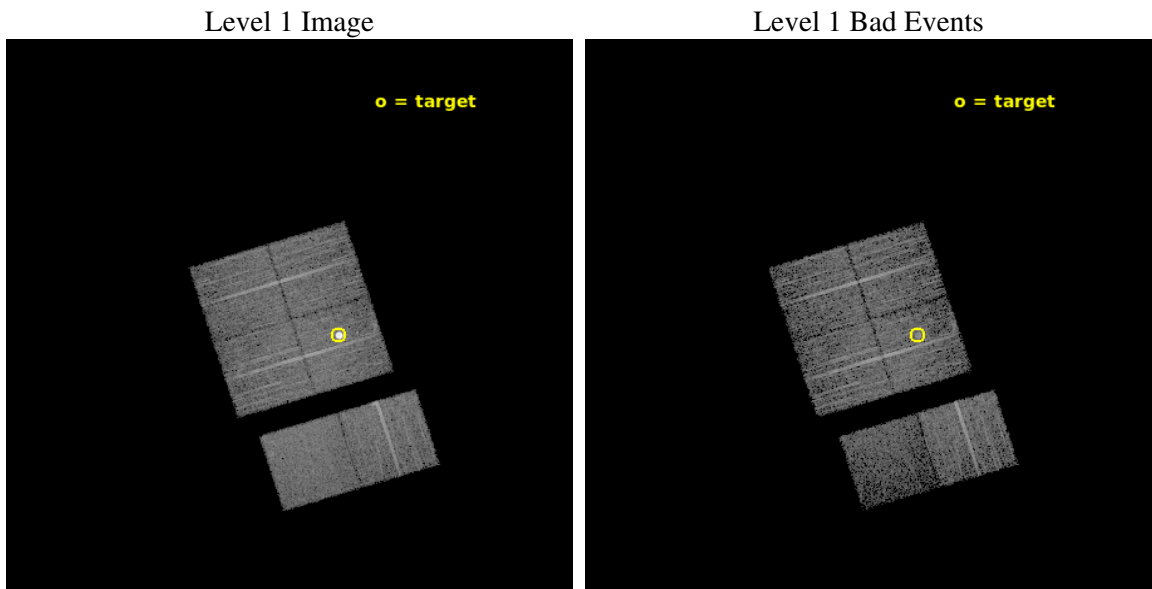
seq_num	590343	Sequence number
obs_id	5145	Observation id
title	AO5B ACIS-I Calibration Observations of E0102-72	Proposal title
observer	CXC Calibration	Principal investigator
object	E0102-72.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.289408730576	Nominal RA [deg]
dec_nom	-72.010851629108	Nominal Dec [deg]
roll_nom	162.61432988022	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7238.3999730349	Sum of GTIs [s]
livetime	7146.7429941351	Livetime [s]
ontime0	7231.9180225432	Sum of GTIs [s]
ontime1	7238.3999730349	Sum of GTIs [s]
ontime2	7238.3999730349	Sum of GTIs [s]
ontime3	7238.3999730349	Sum of GTIs [s]
ontime6	7238.3999730349	Sum of GTIs [s]
ontime7	7238.3999730349	Sum of GTIs [s]
l2events	57652	Number of level 2 events



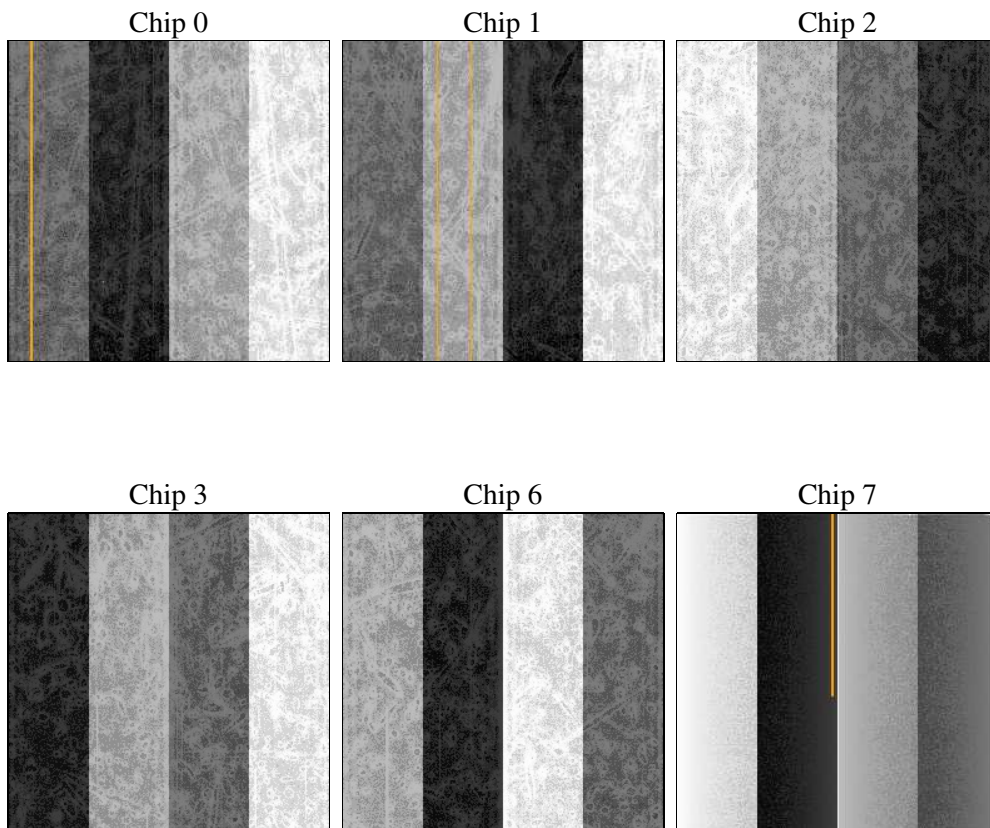
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7481.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	7238.3999730349	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	7231.9180225432	Sum of GTIs [s]
date	2020-09-25T09:00:01	Date and time of file creation	ontime1	7238.3999730349	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	7238.3999730349	Sum of GTIs [s]
			ontime3	7238.3999730349	Sum of GTIs [s]
			ontime6	7238.3999730349	Sum of GTIs [s]
			ontime7	7238.3999730349	Sum of GTIs [s]
			l1events	256258	Number of level 1 events

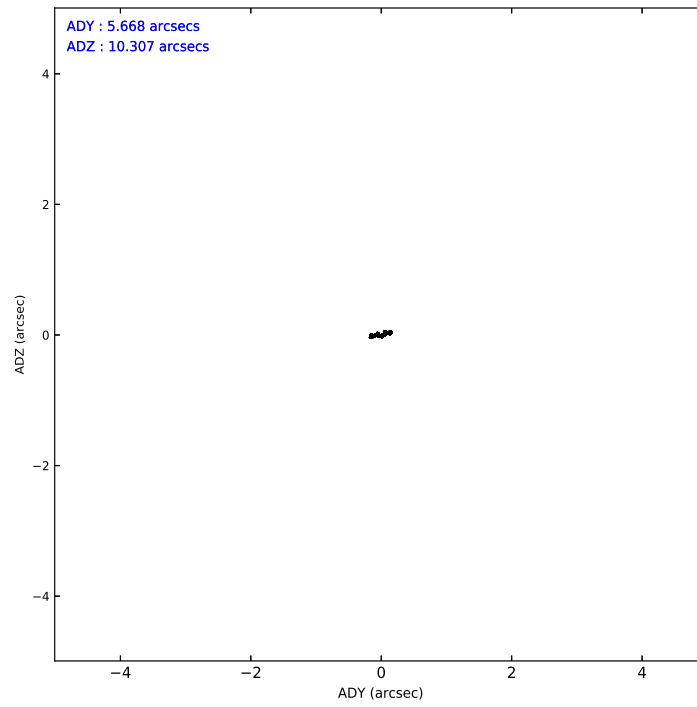
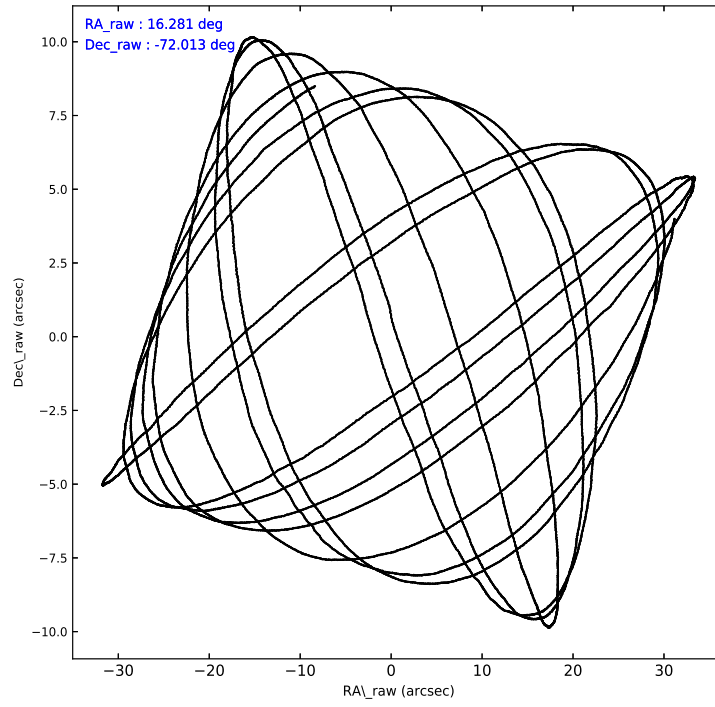
2.1.4 Events

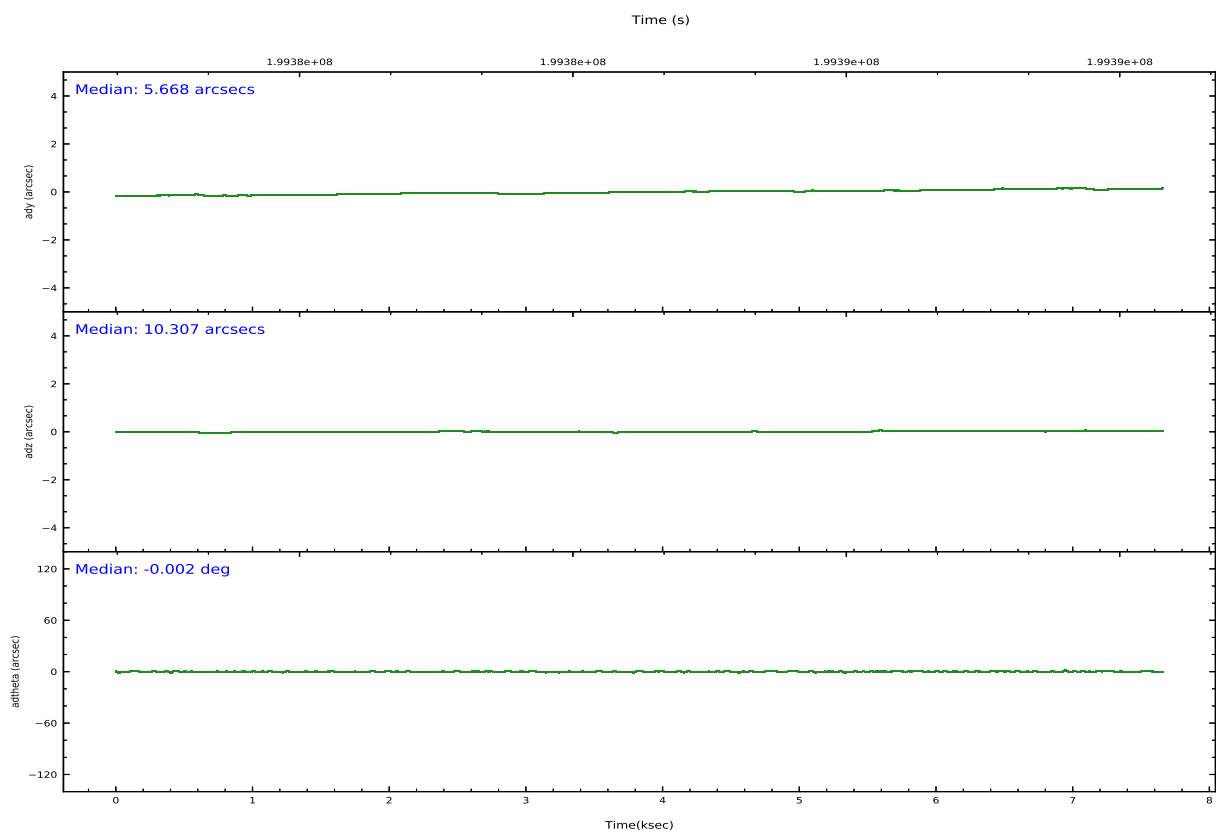
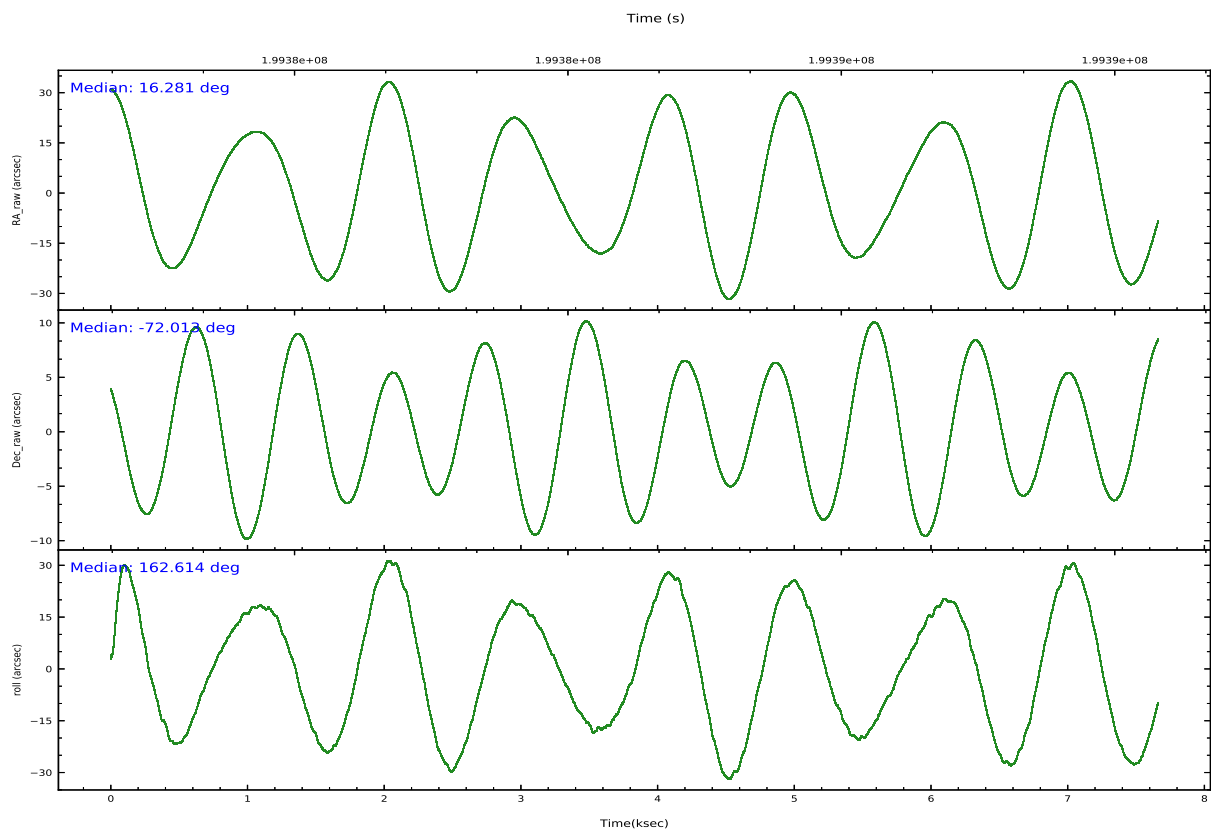
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	37391	36005	64373	40597	40352	37540	grade 0 events	1420	1380	21970	1834	1889	1891
rejected events	33543	32079	37438	36353	35792	19105		3%	3%	34%	4%	4%	5%
rejected %	89%	89%	58%	89%	88%	50%	grade 1 events	22	20	210	26	26	45
								0%	0%	0%	0%	0%	0%
							grade 2 events	886	817	2583	810	926	3899
								2%	2%	4%	1%	2%	10%
							grade 3 events	463	490	781	458	443	1865
								1%	1%	1%	1%	1%	4%
							grade 4 events	420	468	812	453	470	1815
								1%	1%	1%	1%	1%	4%
							grade 5 events	1140	1220	1208	1376	1416	4095
								3%	3%	1%	3%	3%	10%
							grade 6 events	662	772	798	692	833	8968
								1%	2%	1%	1%	2%	23%
							grade 7 events	32378	30838	36011	34948	34349	14962
								86%	85%	55%	86%	85%	39%

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	16.367854	16.289408730576	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.007058	-72.010851629108	Alternating exposures requested	N	N
[deg] Pointing Roll	162.492304	162.61432988022	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	197164864.184000	197164864.184000			
[s] Window stop time (MET)	199670464.184000	199670464.184000			
[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)	199380837.184000	199380460.46441			
Observation start date	2004-04-26T15:32:53	2004-04-26T15:27:40			
[s] Observation end time (MET)	199388318.184000	199389015.62729			
Observation end date	2004-04-26T17:37:34	2004-04-26T17:50:15			
Read mode	TIMED	TIMED			

2.3 Aspect



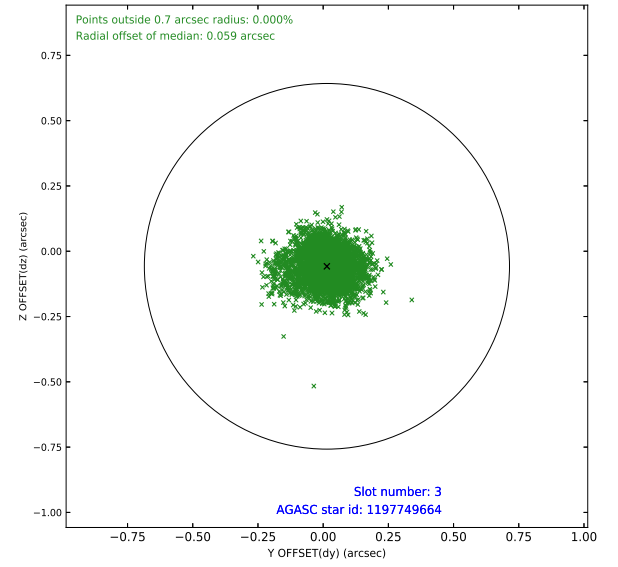
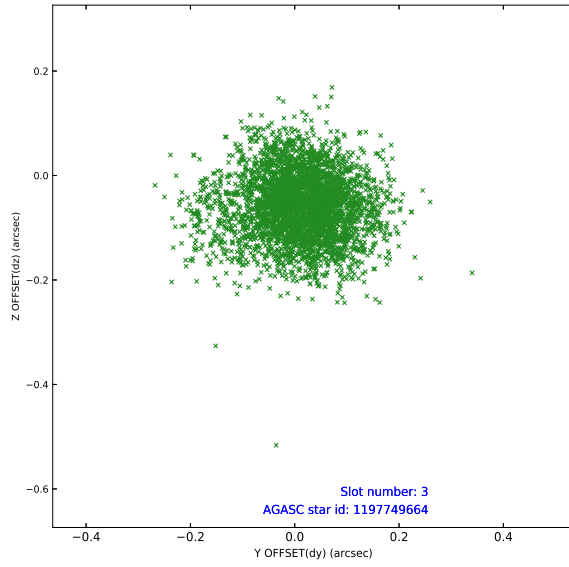


Slot Statistics

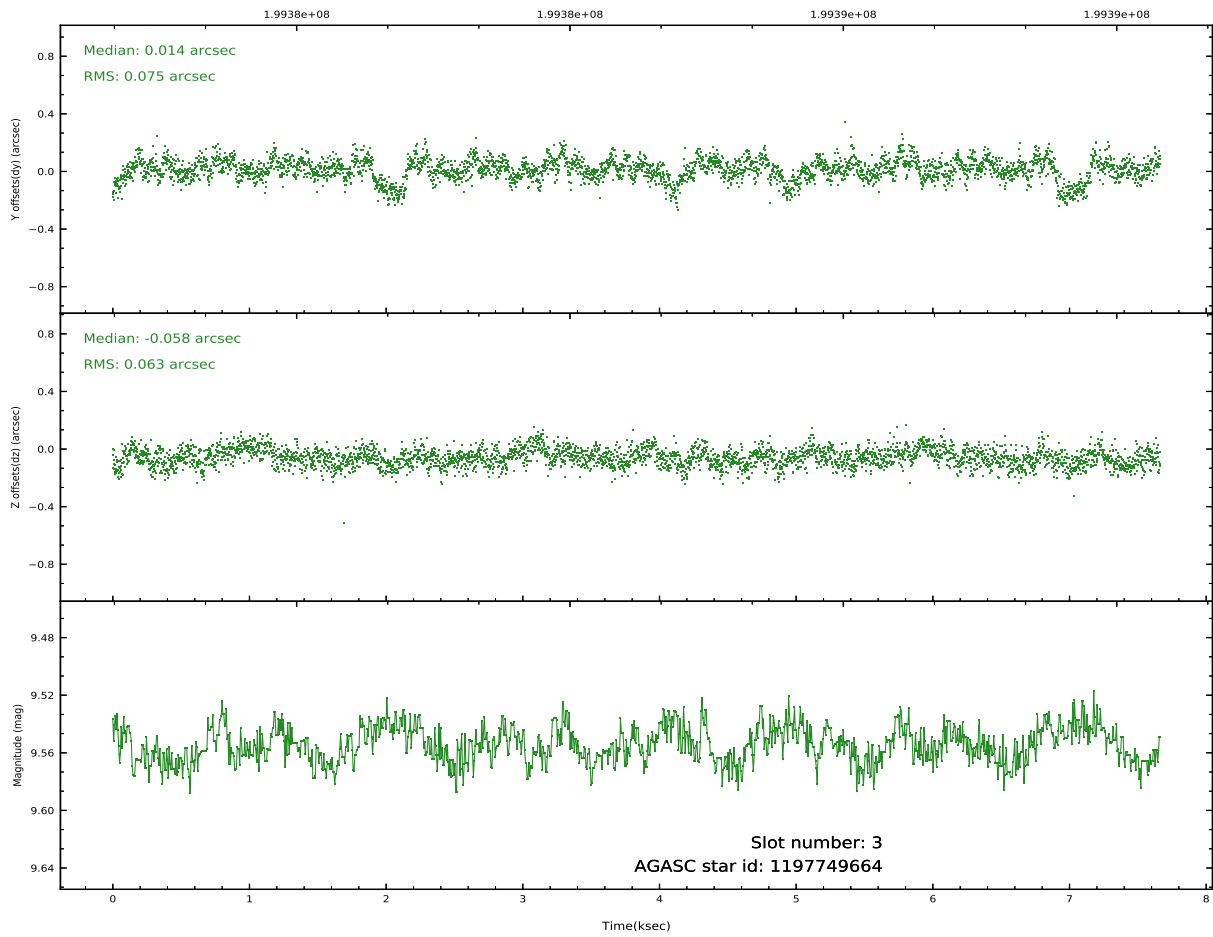
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	1869	1.000	0.027	-0.014	0.007	0.012	0.000000	0.000000	934.09	-833
1	FID		ACIS-I-5	7.23	1869	1.000	-0.197	0.033	0.006	0.010	0.000000	0.000000	-1813.83	1063
2	FID		ACIS-I-6	7.25	1869	1.000	0.079	0.051	0.008	0.012	0.000000	0.000000	398.88	1708
3	GUIDE	used	1197749664	9.55	3739	1.000	0.014	-0.058	0.102	0.175	15.809015	-72.366369	191.26	1419
4	GUIDE	used	1197750936	7.57	3739	1.000	-0.138	0.057	0.056	0.091	15.387940	-71.549550	1557.67	-1225
5	GUIDE	used	1197884536	8.50	3736	1.000	0.064	0.011	0.078	0.122	17.160729	-71.835289	-663.49	-852
6	GUIDE	used	1197885104	9.36	3735	1.000	0.096	-0.049	0.074	0.121	17.845067	-72.189368	-1754.33	155
7	GUIDE	used	1197885328	7.23	3738	1.000	-0.036	0.040	0.065	0.104	16.283090	-71.733943	386.46	-909

2.4 Star Slots

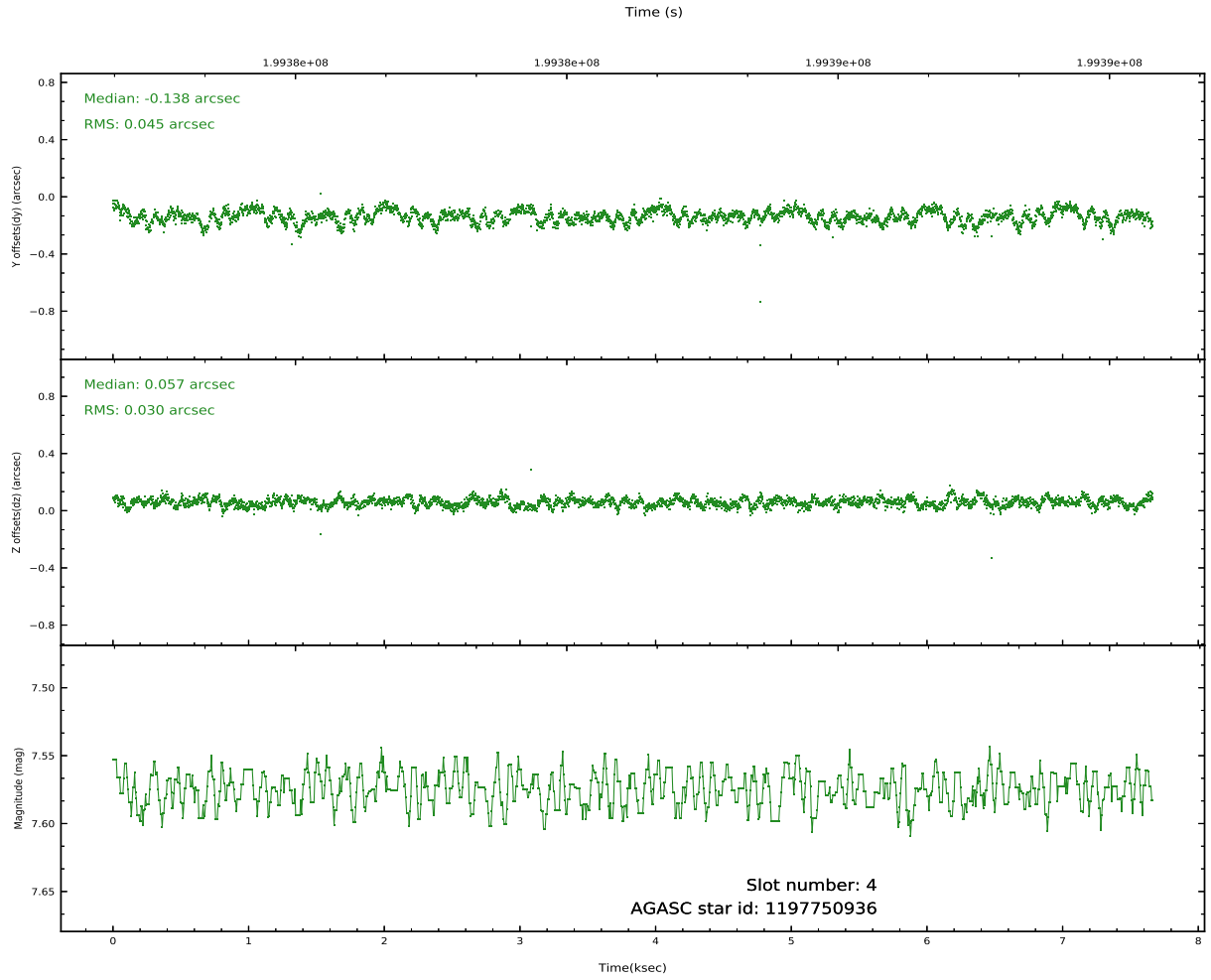
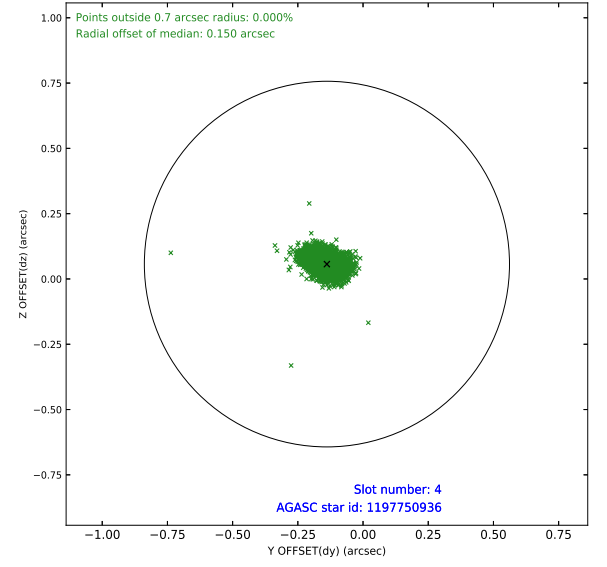
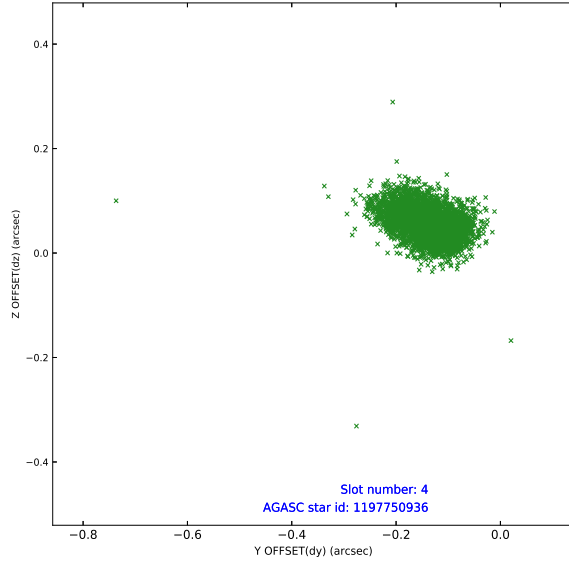
2.4.1 Slot 3



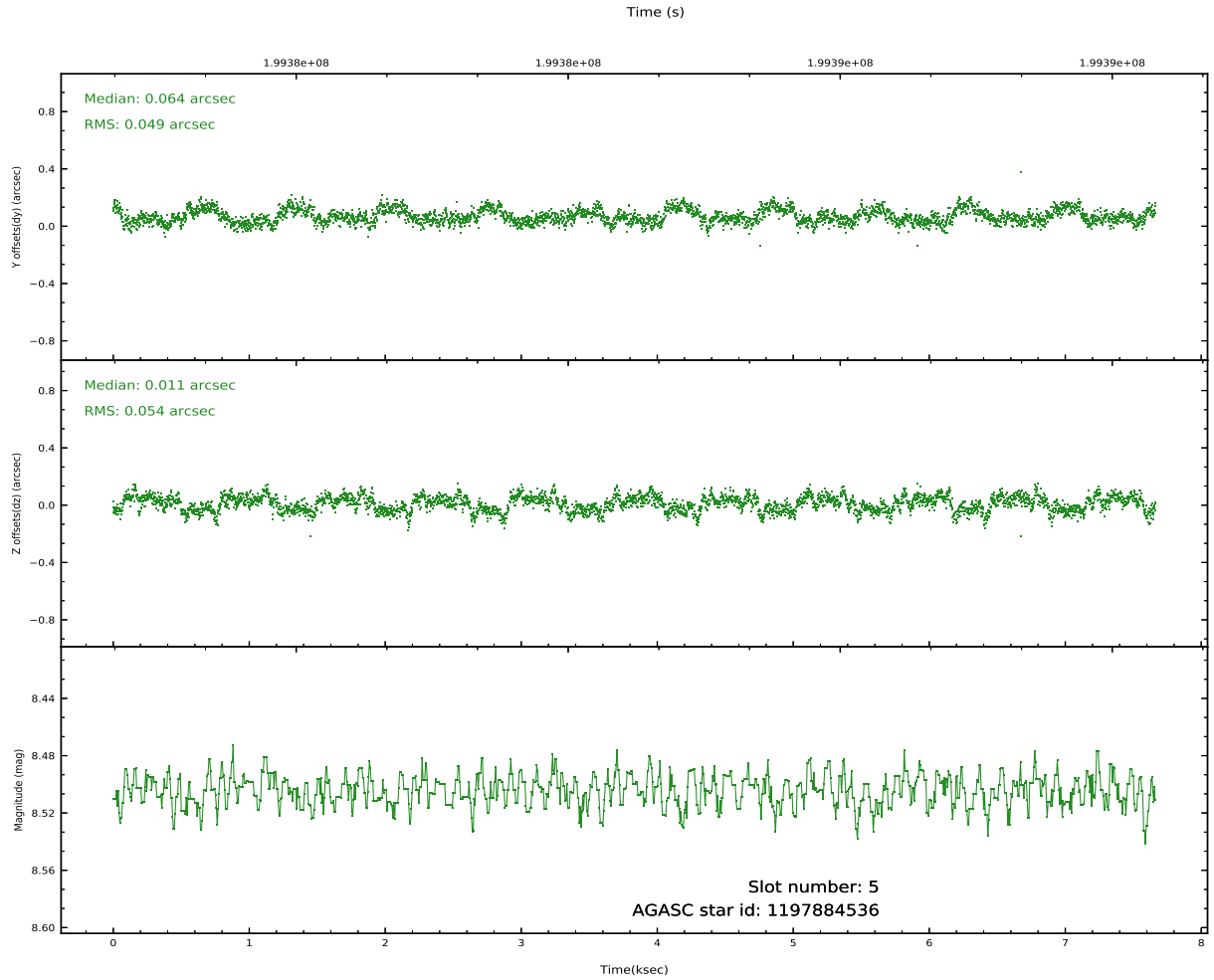
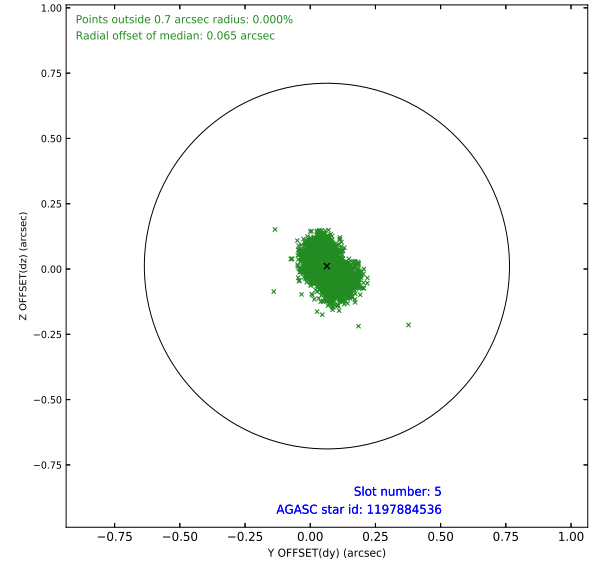
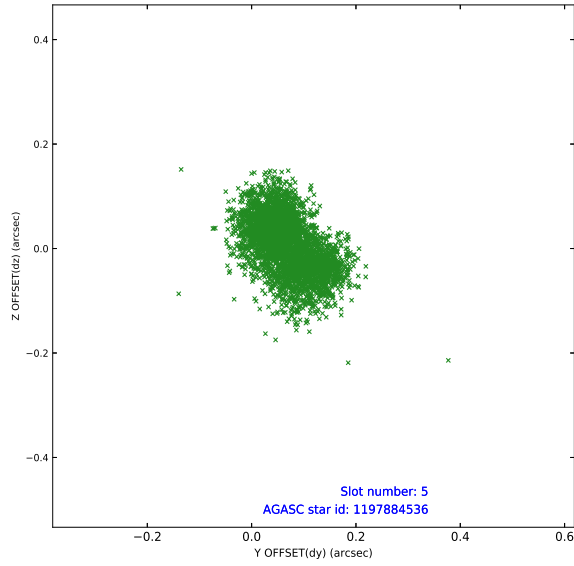
Time (s)



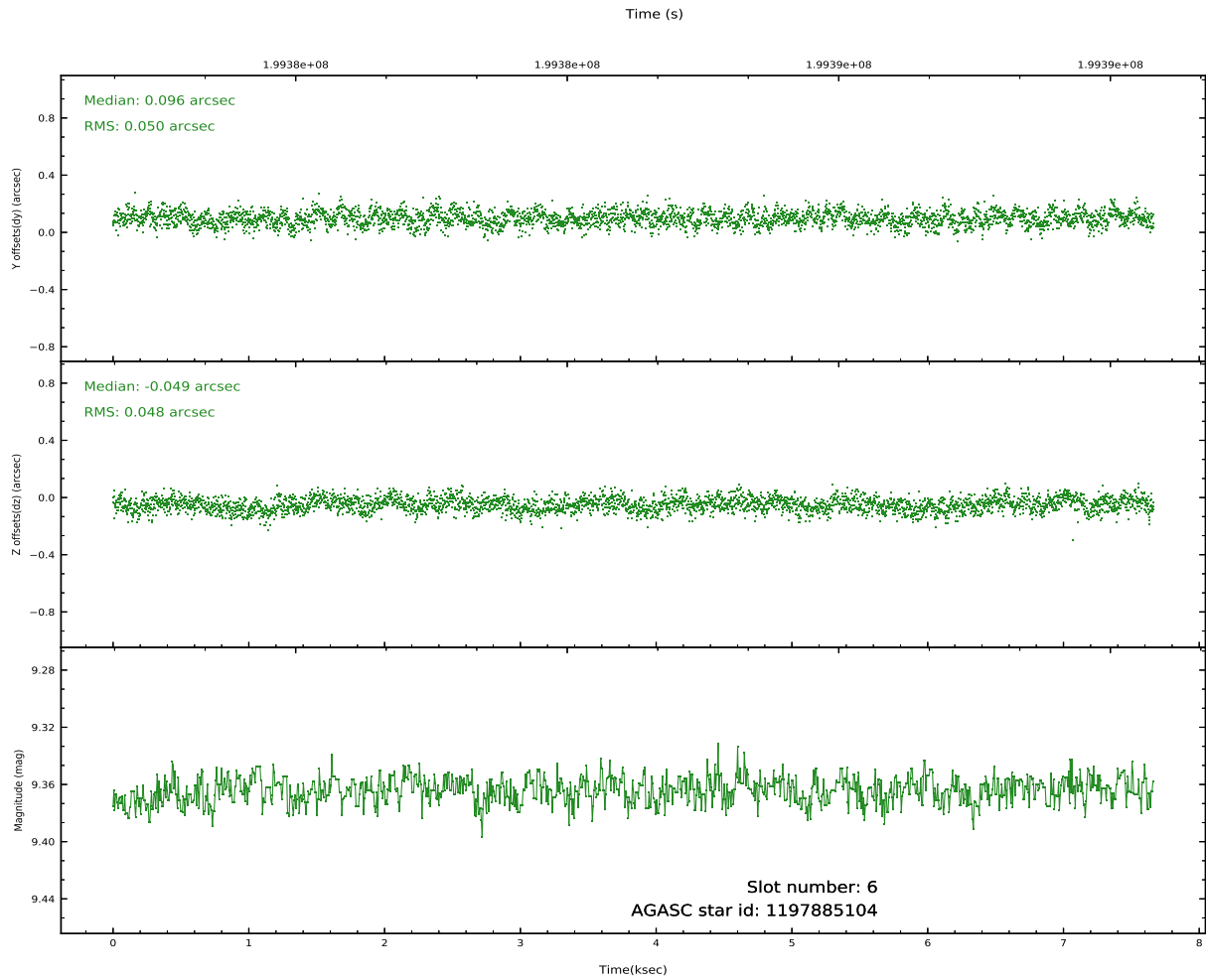
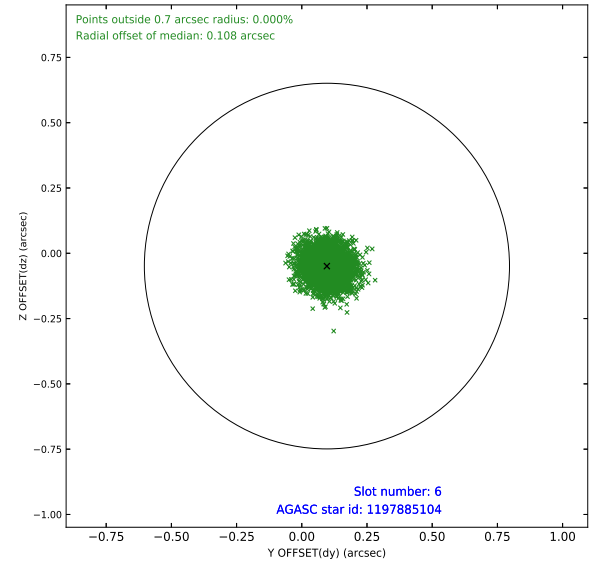
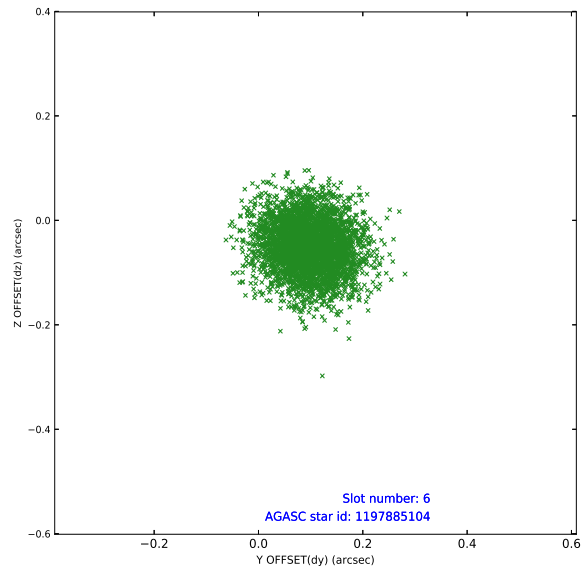
2.4.2 Slot 4



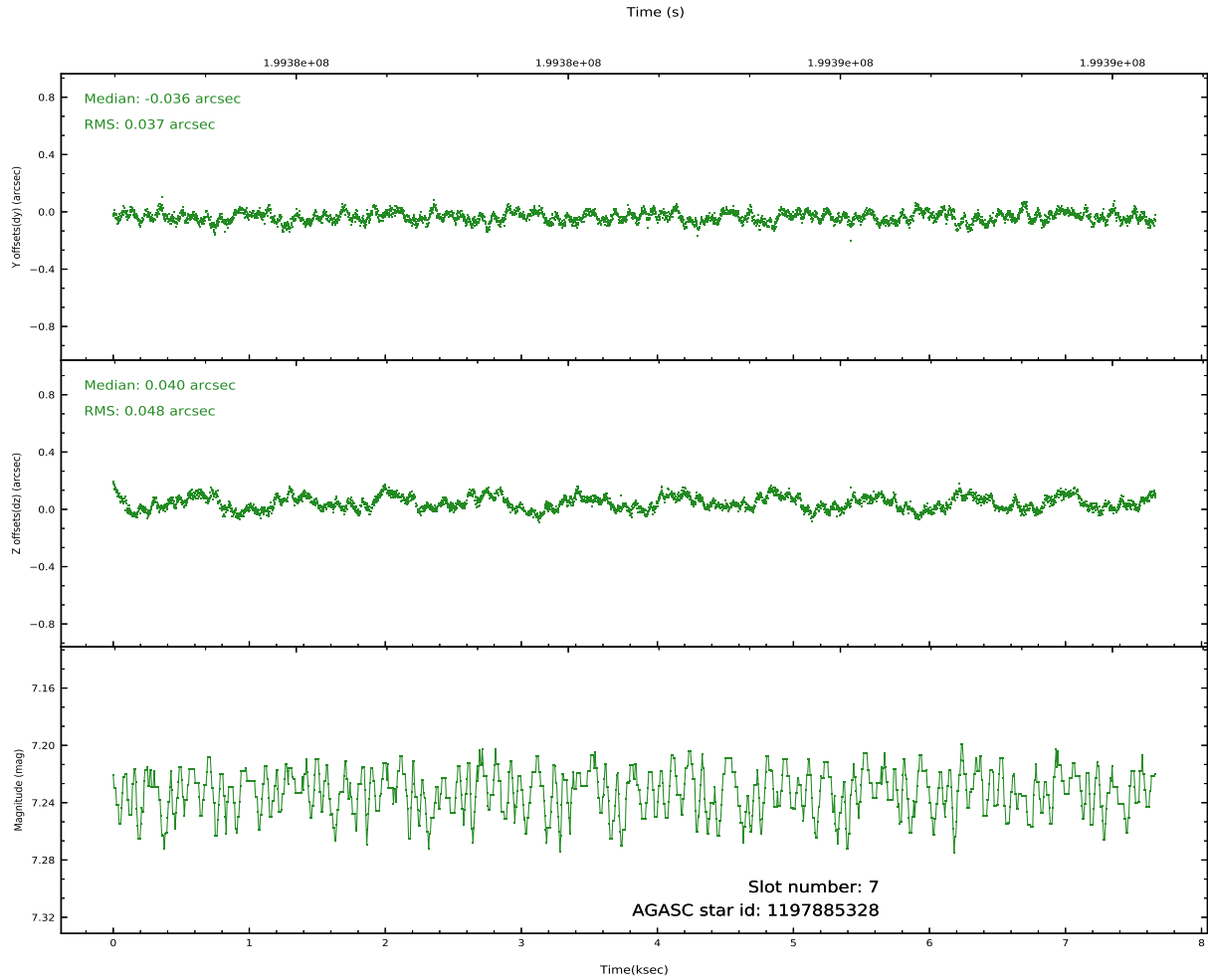
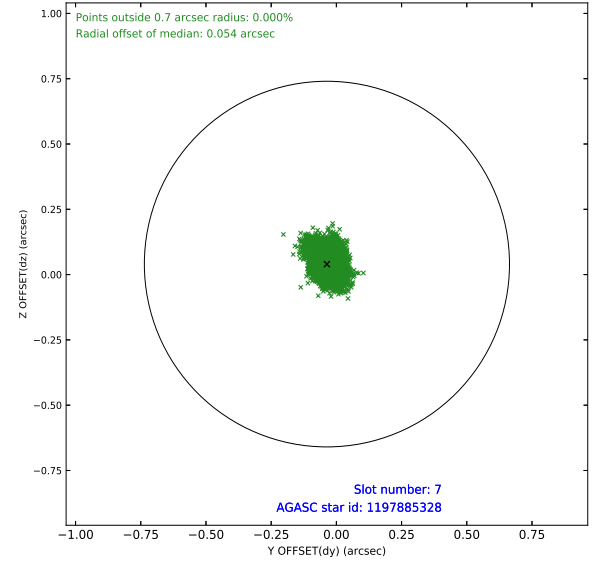
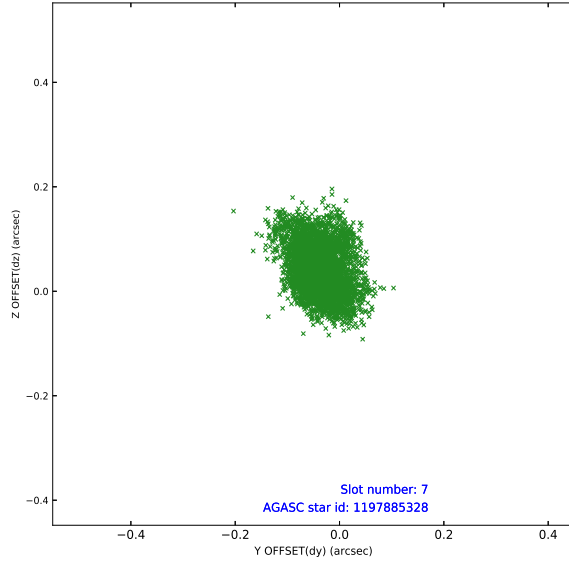
2.4.3 Slot 5



2.4.4 Slot 6

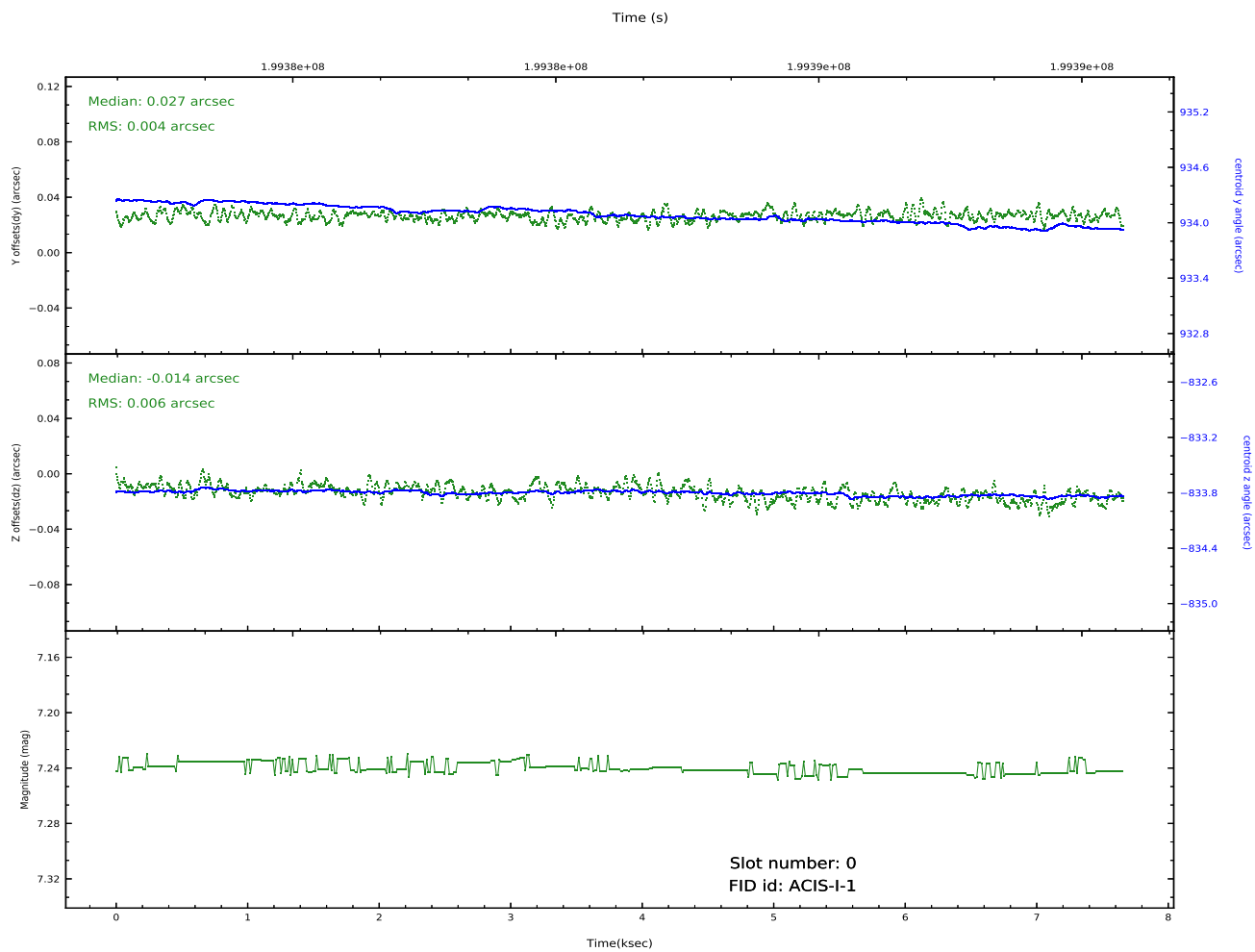
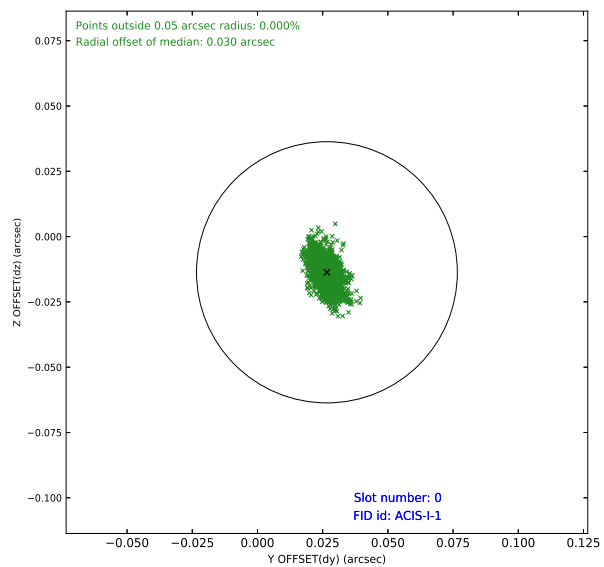
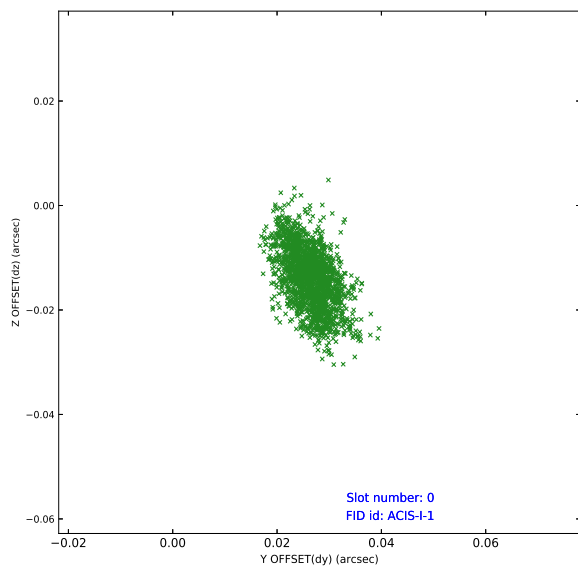


2.4.5 Slot 7

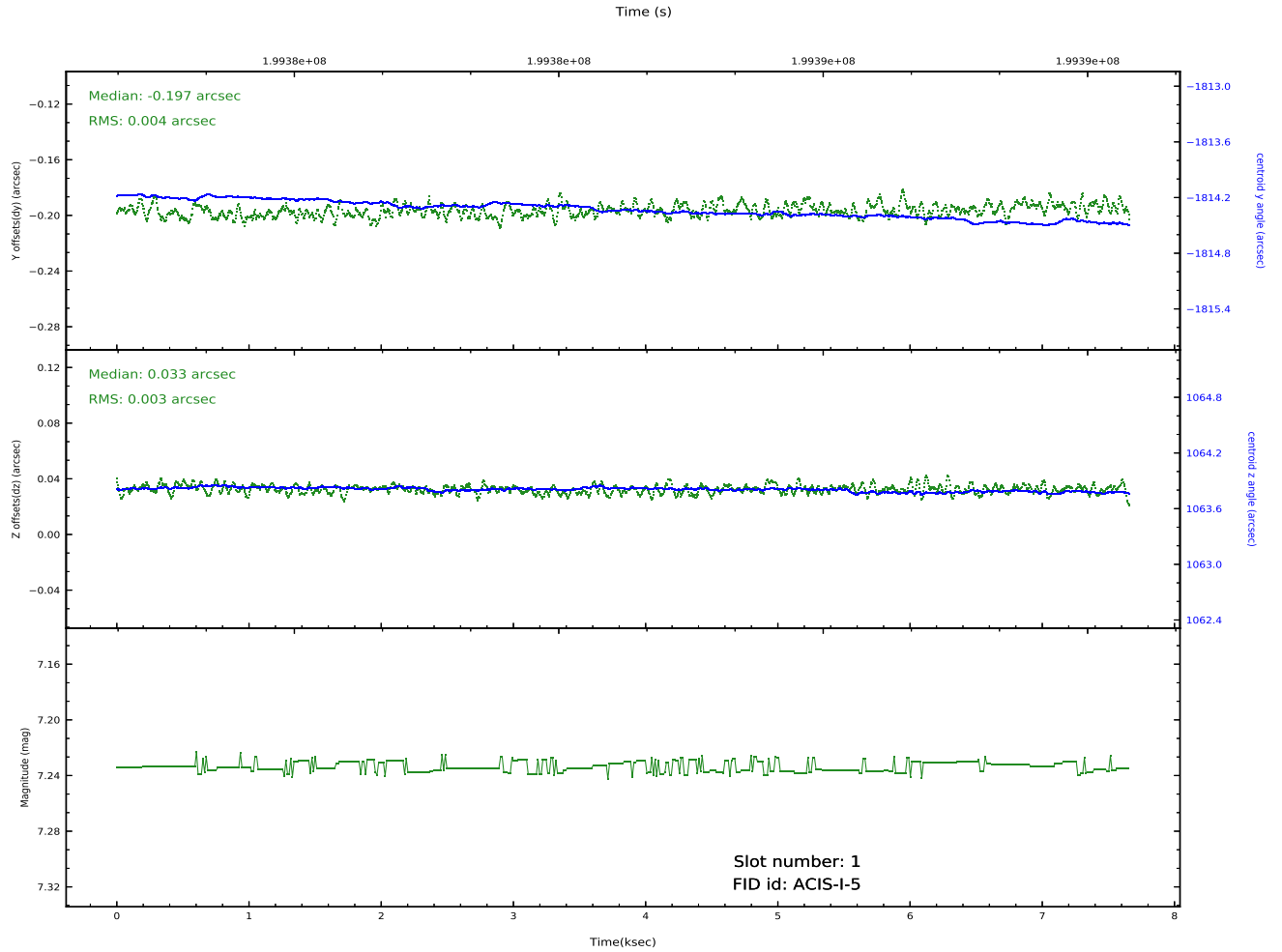
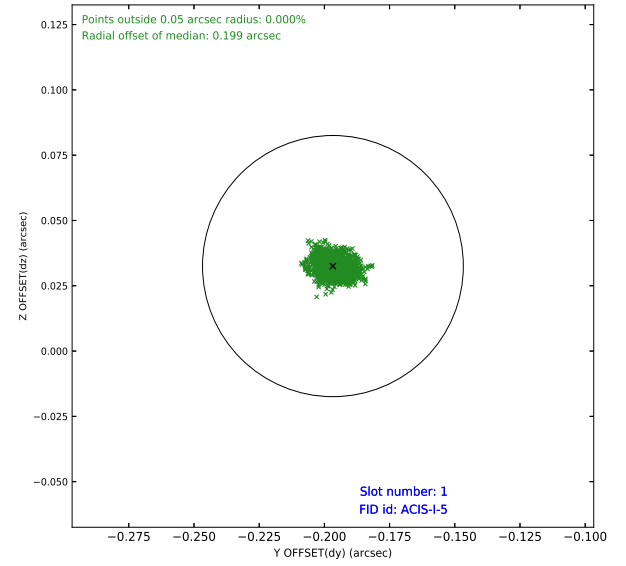
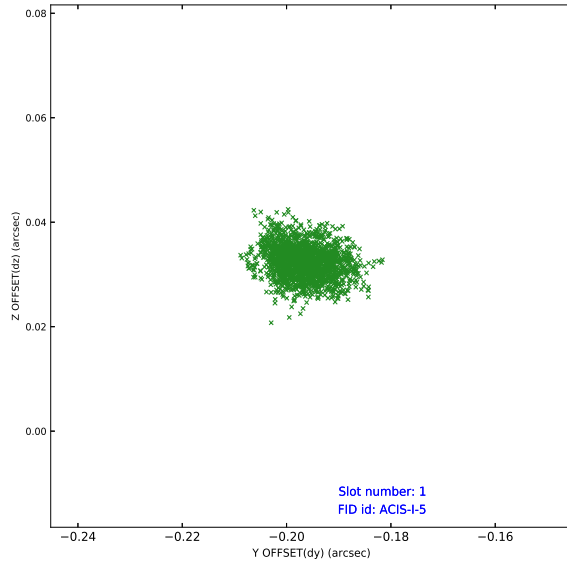


2.5 FID Slots

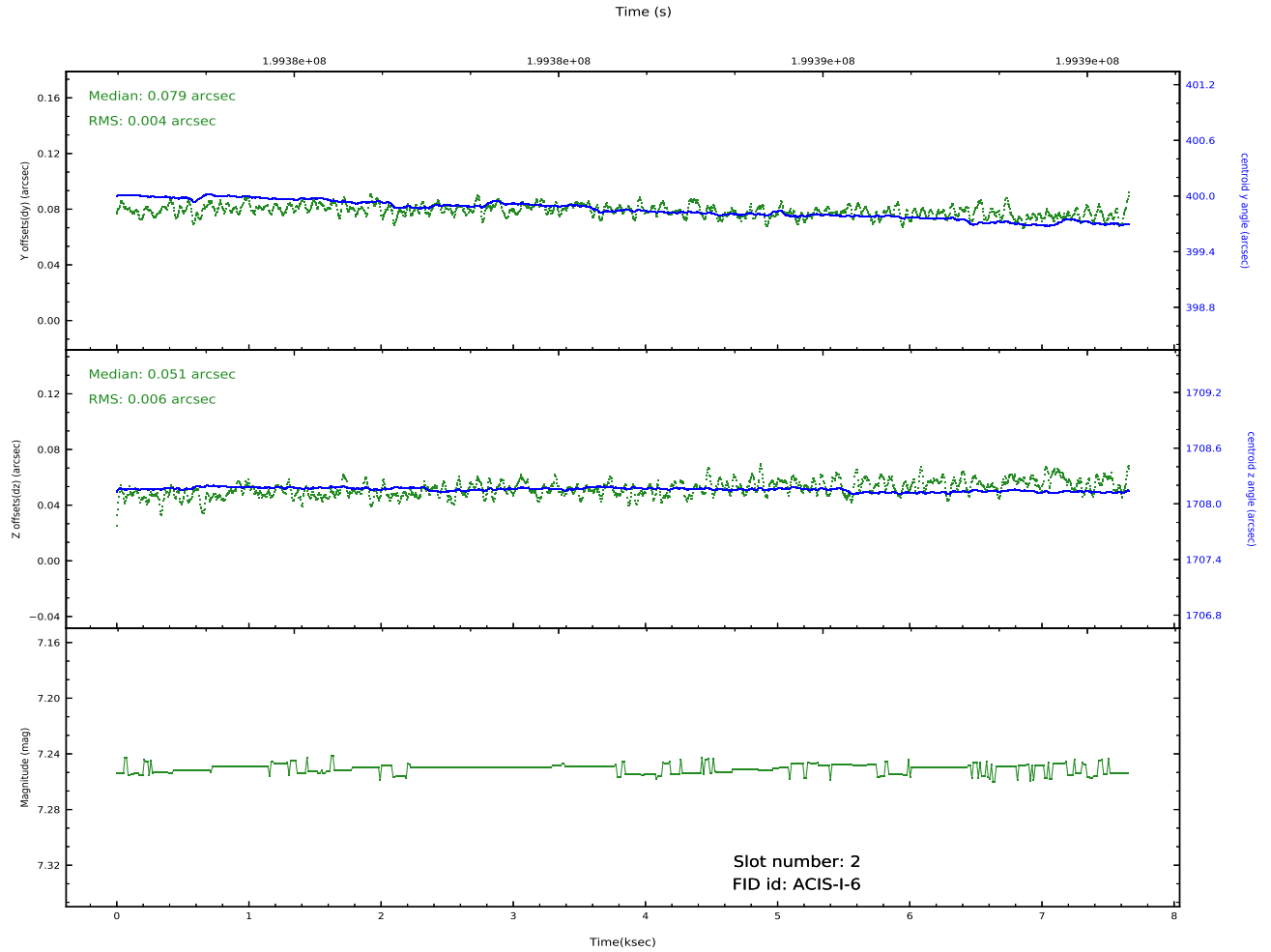
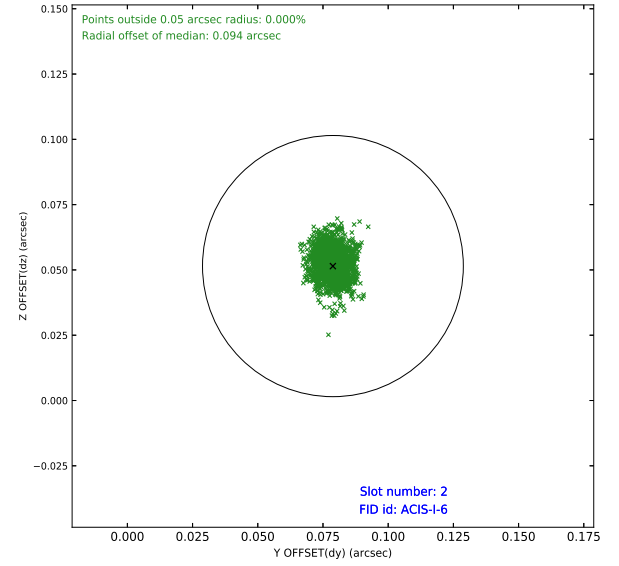
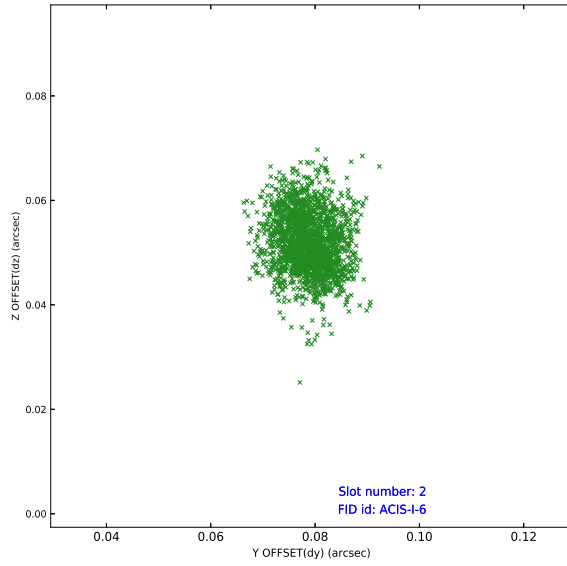
2.5.1 Slot 0



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)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.241

A.2 Comments

Window constraint met.