

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 7205 - L2 Version 4
Chandra X-Ray Center

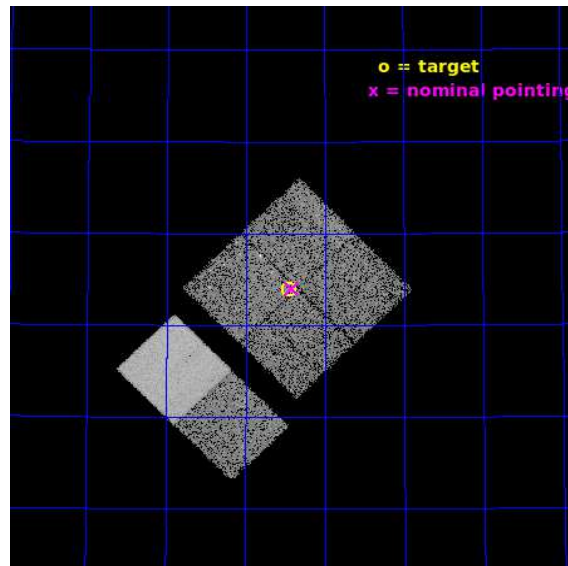
L2 Processing Date : Oct 11 2020

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1 Front

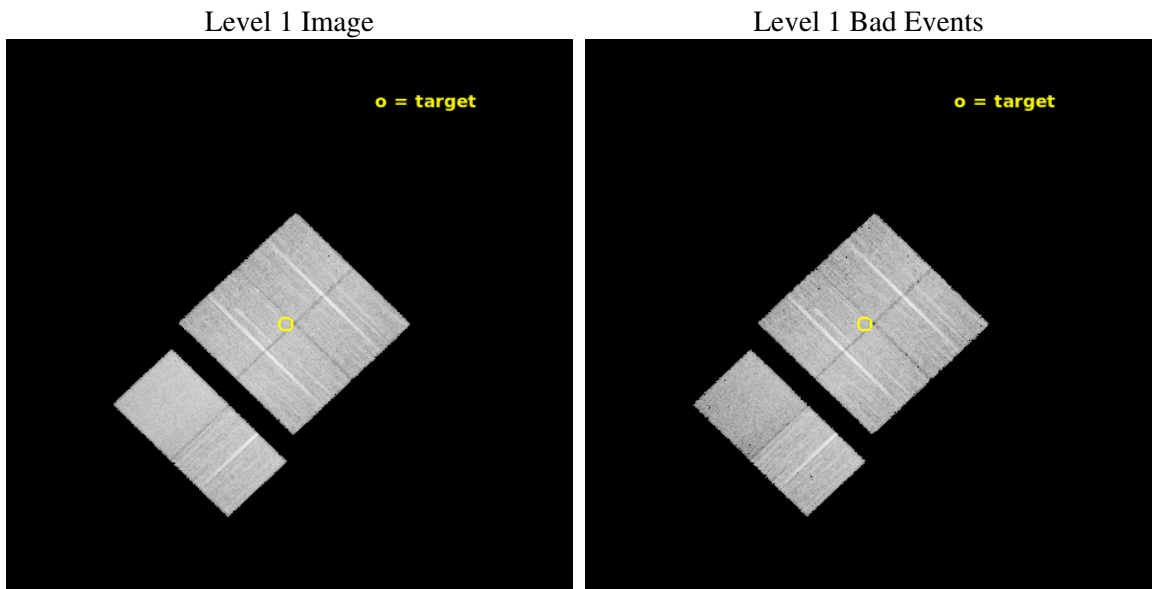
seq_num	200357	Sequence number
obs_id	7205	Observation id
title	The power within the PacMan Nebula: Triggered Star Formation in NGC 281	Proposal title
observer	Scott Wolk	Principal investigator
object	NGC 281	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	13.112917	Observer's specified target RA [deg]
dec_targ	56.565	Observer's specified target Dec [deg]
ra_nom	13.104026637516	Nominal RA [deg]
dec_nom	56.566653761968	Nominal Dec [deg]
roll_nom	225.51205408857	Nominal Roll [deg]
revision	4	Processing version of data
ontime	13161.599950969	Sum of GTIs [s]
livetime	12994.939847426	Livetime [s]
ontime0	13161.599950969	Sum of GTIs [s]
ontime1	13161.599950969	Sum of GTIs [s]
ontime2	13158.35894078	Sum of GTIs [s]
ontime3	13161.599950969	Sum of GTIs [s]
ontime6	13158.35894078	Sum of GTIs [s]
ontime7	13161.599950969	Sum of GTIs [s]
l2events	79829	Number of level 2 events



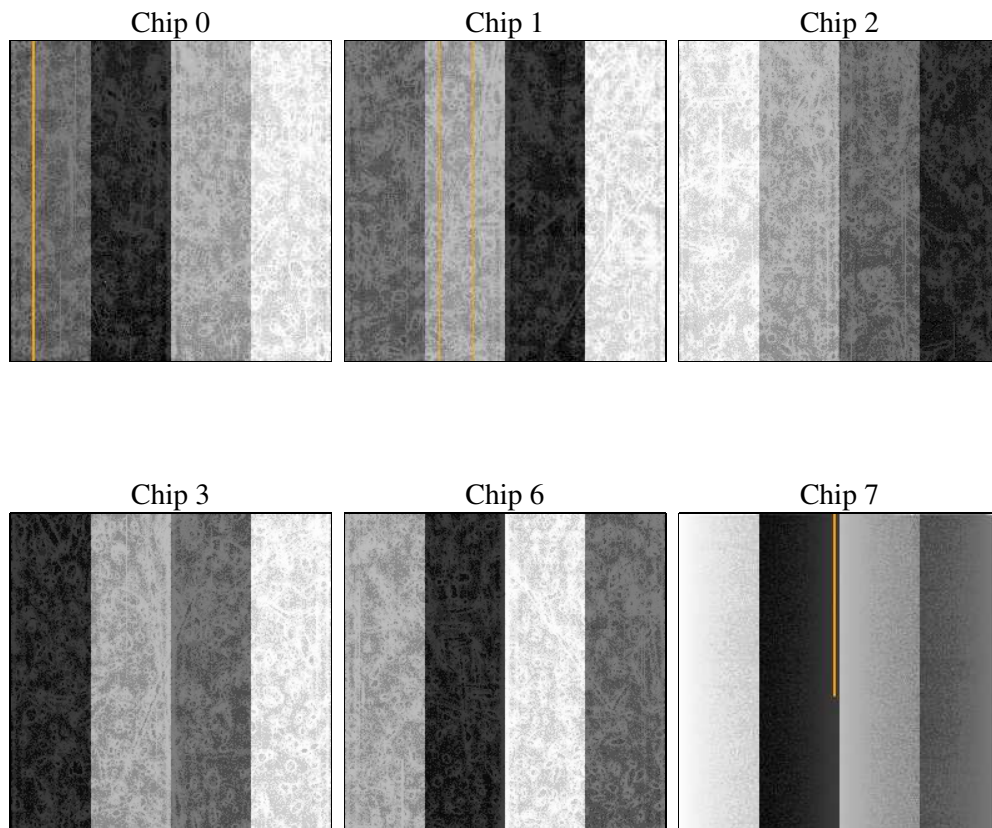
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	13000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	13161.599950969	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	13161.599950969	Sum of GTIs [s]
date	2020-10-11T13:38:31	Date and time of file creation	ontime1	13161.599950969	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	13158.35894078	Sum of GTIs [s]
			ontime3	13161.599950969	Sum of GTIs [s]
			ontime6	13158.35894078	Sum of GTIs [s]
			ontime7	13161.599950969	Sum of GTIs [s]
			l1events	532219	Number of level 1 events

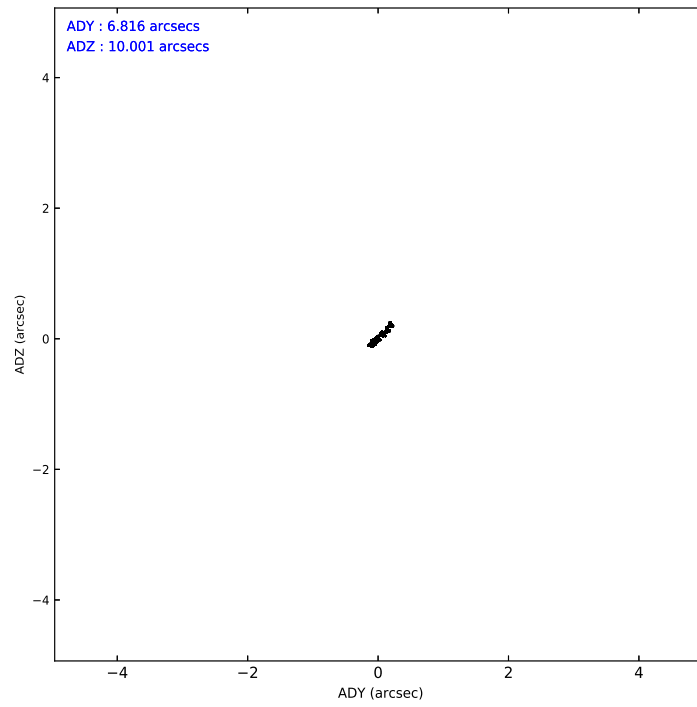
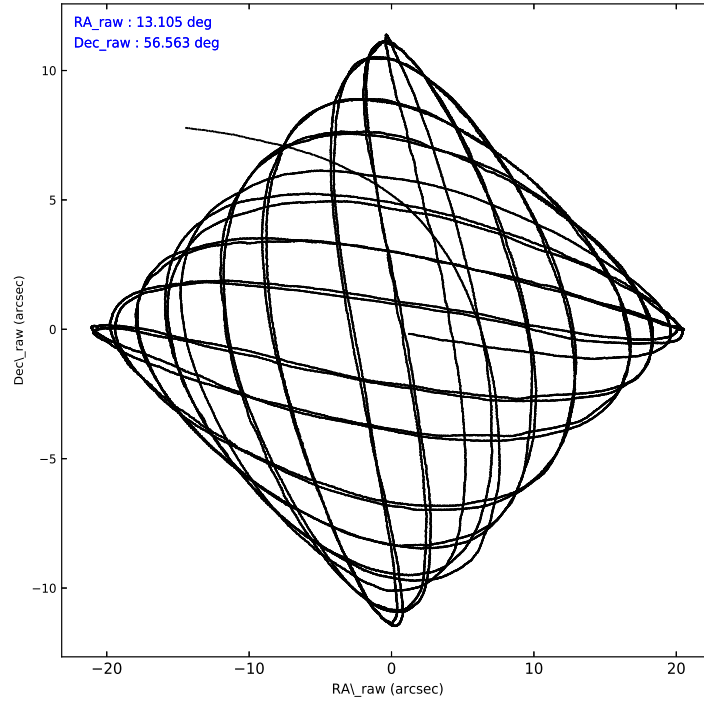
2.1.4 Events

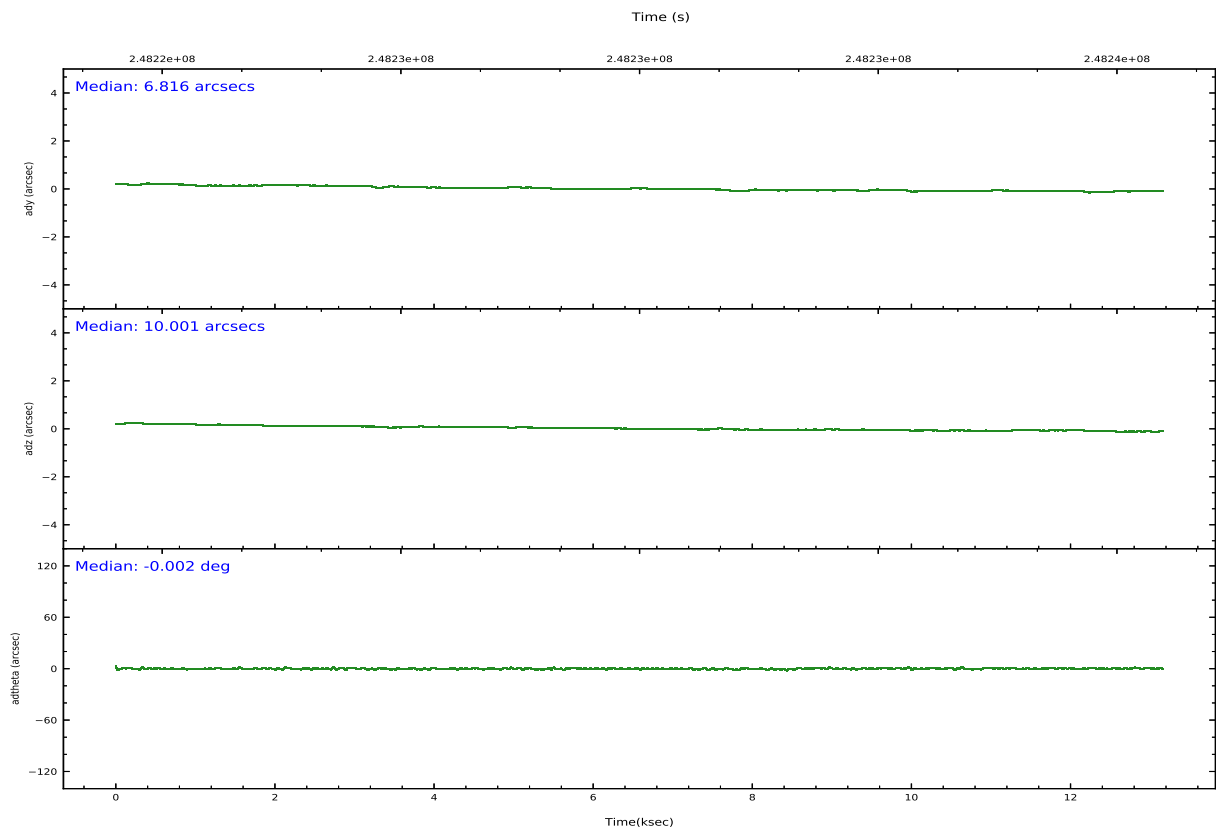
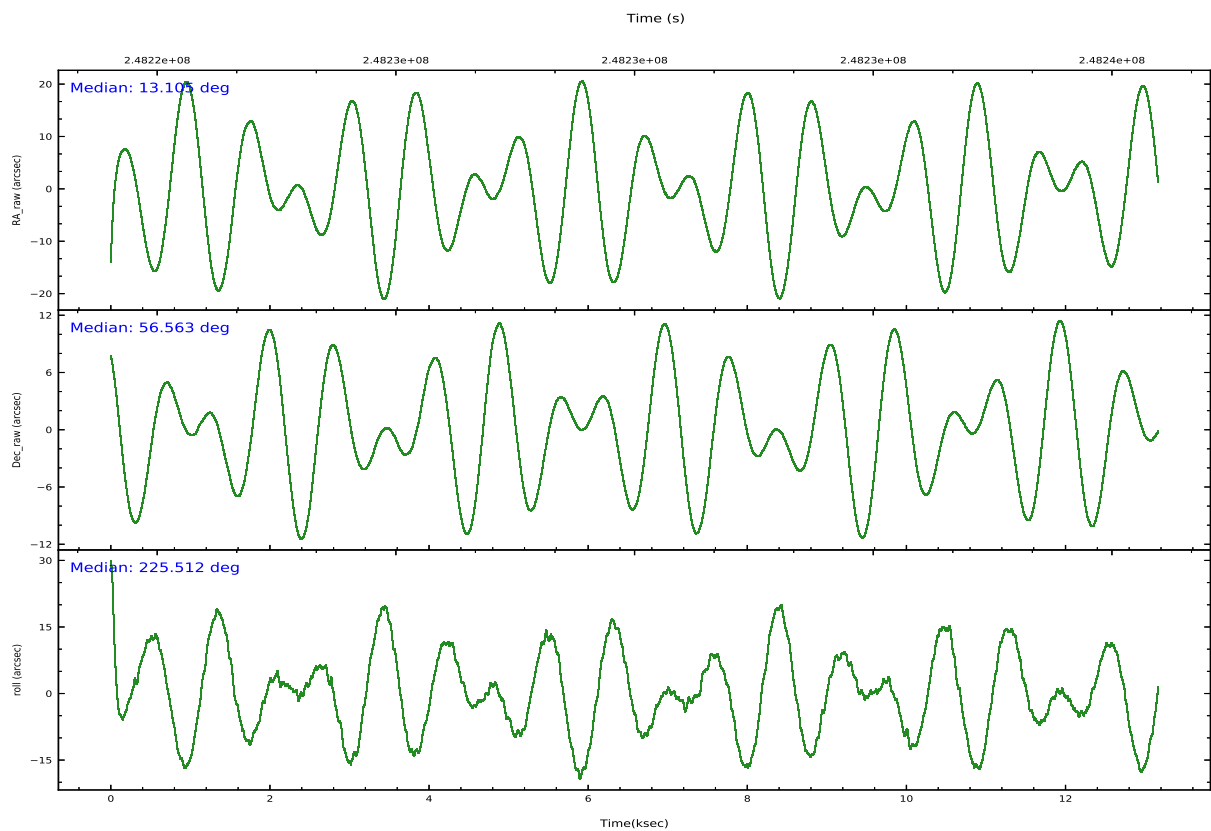
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	82644	80174	93882	86721	91575	97223	grade 0 events	2802	3615	3117	3826	3084	3573
rejected events	74261	70312	85365	77380	82524	53594		3%	4%	3%	4%	3%	3%
rejected %	89%	87%	90%	89%	90%	55%	grade 1 events	47	47	63	61	37	104
								0%	0%	0%	0%	0%	0%
							grade 2 events	2003	2130	1968	1912	1988	8795
								2%	2%	2%	2%	2%	9%
							grade 3 events	1009	1124	908	979	993	4095
								1%	1%	0%	1%	1%	4%
							grade 4 events	916	1047	990	969	1027	3932
								1%	1%	1%	1%	1%	4%
							grade 5 events	2978	3227	2839	3444	3655	10564
								3%	4%	3%	3%	3%	10%
							grade 6 events	1655	1947	1536	1658	1963	23253
								2%	2%	1%	1%	2%	23%
							grade 7 events	71234	67037	82461	73872	78828	42907
								86%	83%	87%	85%	86%	44%

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	13.117383	13.104026637516	Subarray requested	NONE	NONE
[deg] Pointing Dec	56.589758	56.566653761968	Alternating exposures requested	N	N
[deg] Pointing Roll	225.296276	225.51205408857	[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)	248223582.184000	248222518.31997			
Observation start date	2005-11-12T22:58:38	2005-11-12T22:41:58			
[s] Observation end time (MET)	248236582.184000	248237541.74567			
Observation end date	2005-11-13T02:35:18	2005-11-13T02:52:21			
Read mode	TIMED	TIMED			

2.3 Aspect



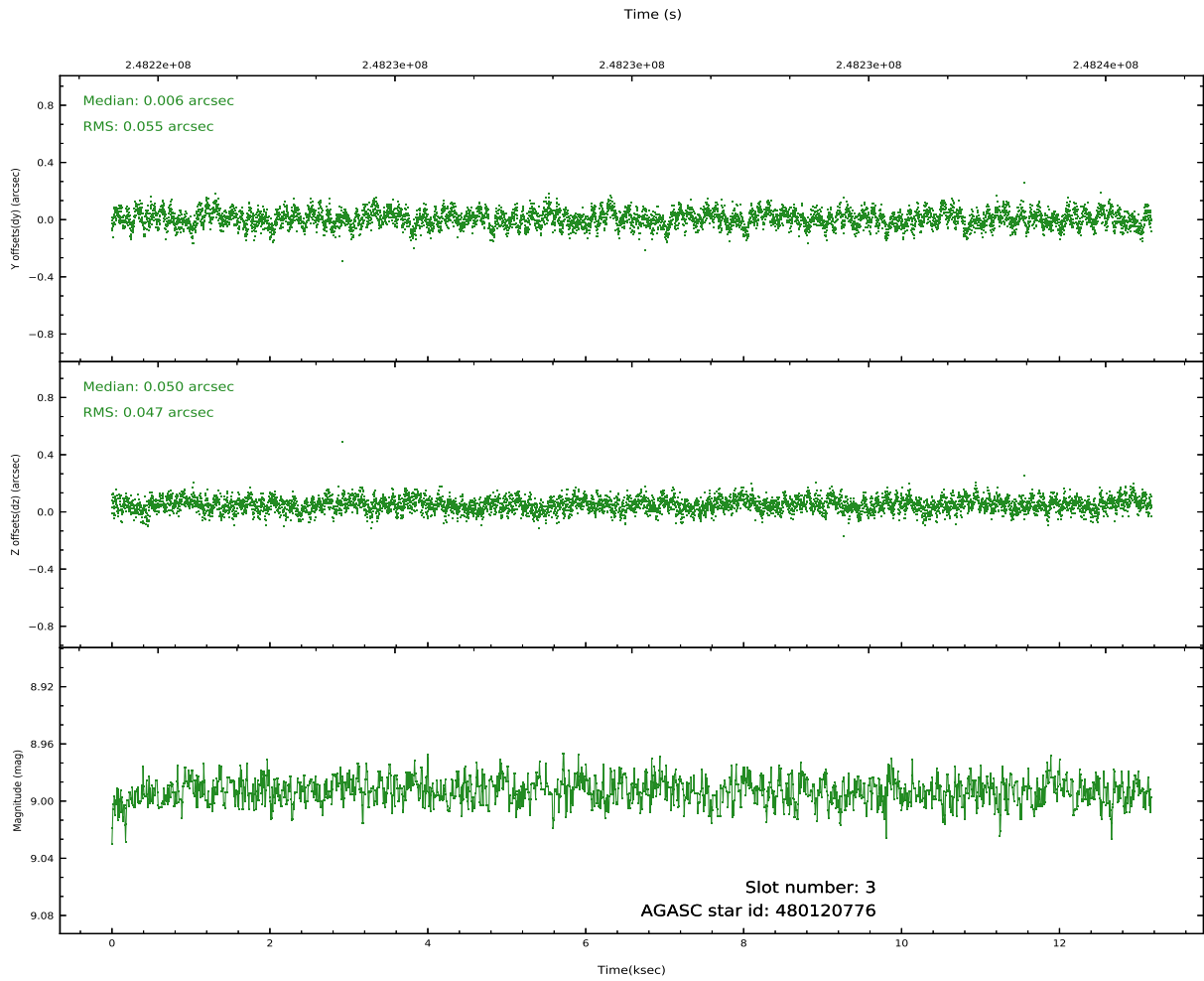
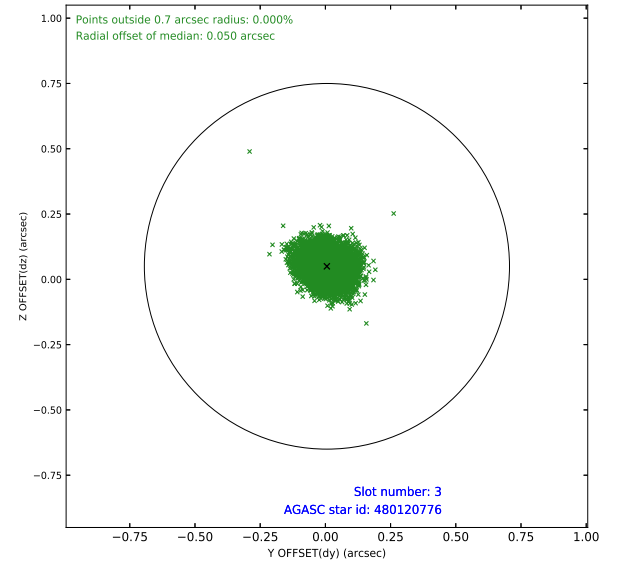
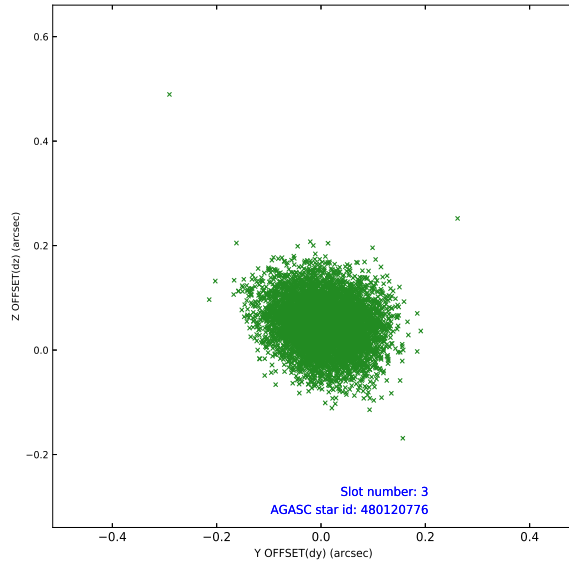


Slot Statistics

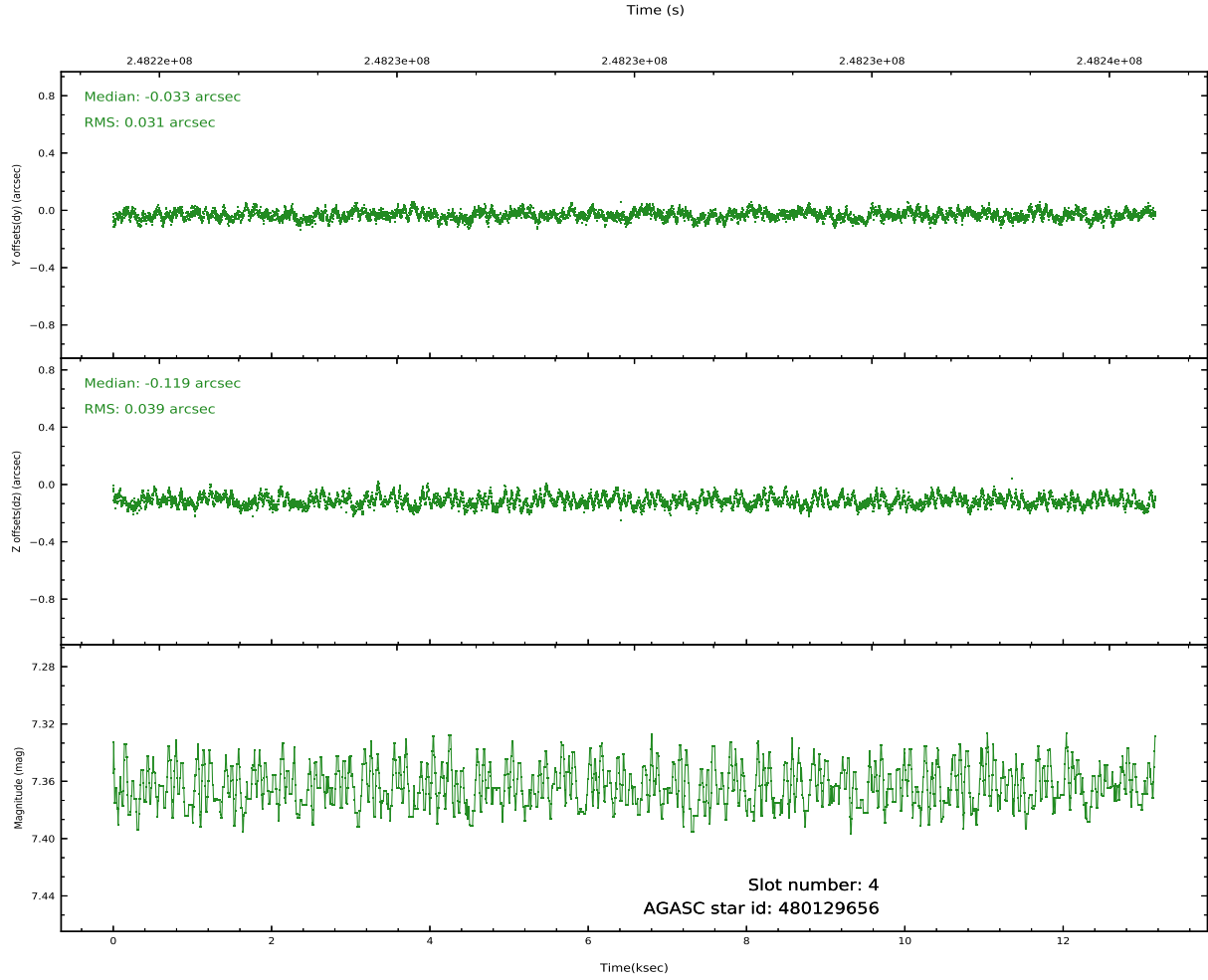
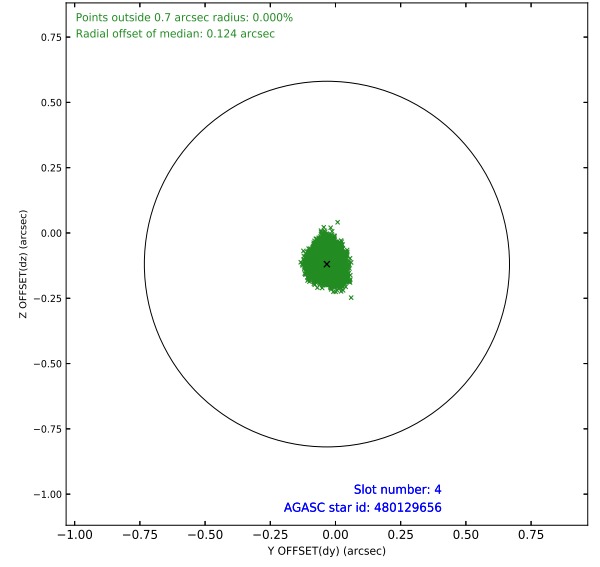
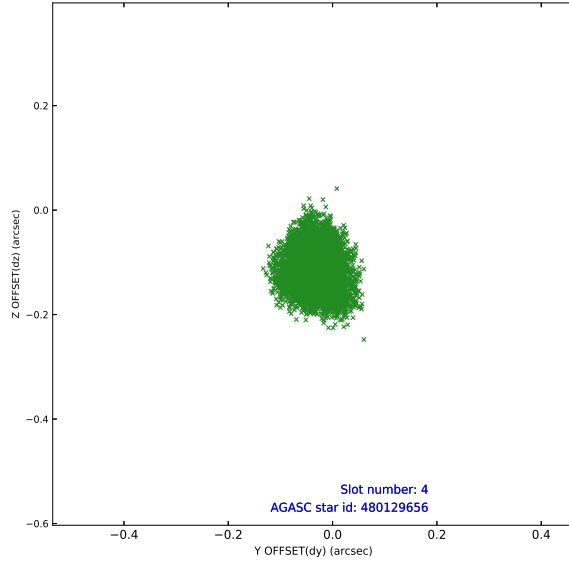
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-4	7.18	3210	1.000	0.136	0.018	0.008	0.014	0.000000	0.000000	2152.94	1066
1	FID		ACIS-I-5	7.23	3212	1.000	-0.258	0.008	0.006	0.011	0.000000	0.000000	-1814.94	1064
2	FID		ACIS-I-6	7.26	3211	1.000	0.023	0.041	0.008	0.013	0.000000	0.000000	398.01	1708
3	GUIDE	used	480120776	8.99	6422	1.000	0.006	0.050	0.077	0.123	11.785837	56.559271	1918.47	-1818
4	GUIDE	used	480129656	7.36	6421	1.000	-0.033	-0.119	0.054	0.084	13.070380	56.264365	899.13	757
5	GUIDE	used	480136328	7.71	6423	1.000	-0.018	-0.031	0.060	0.095	13.273425	57.219156	-1824.09	-1378
6	GUIDE	used	481821576	7.92	6421	1.000	-0.015	0.050	0.056	0.089	13.802183	56.483052	-689.54	1232
7	GUIDE	used	479609704	8.42	6421	1.000	0.059	0.050	0.075	0.115	13.331651	55.769395	1793.50	2385

2.4 Star Slots

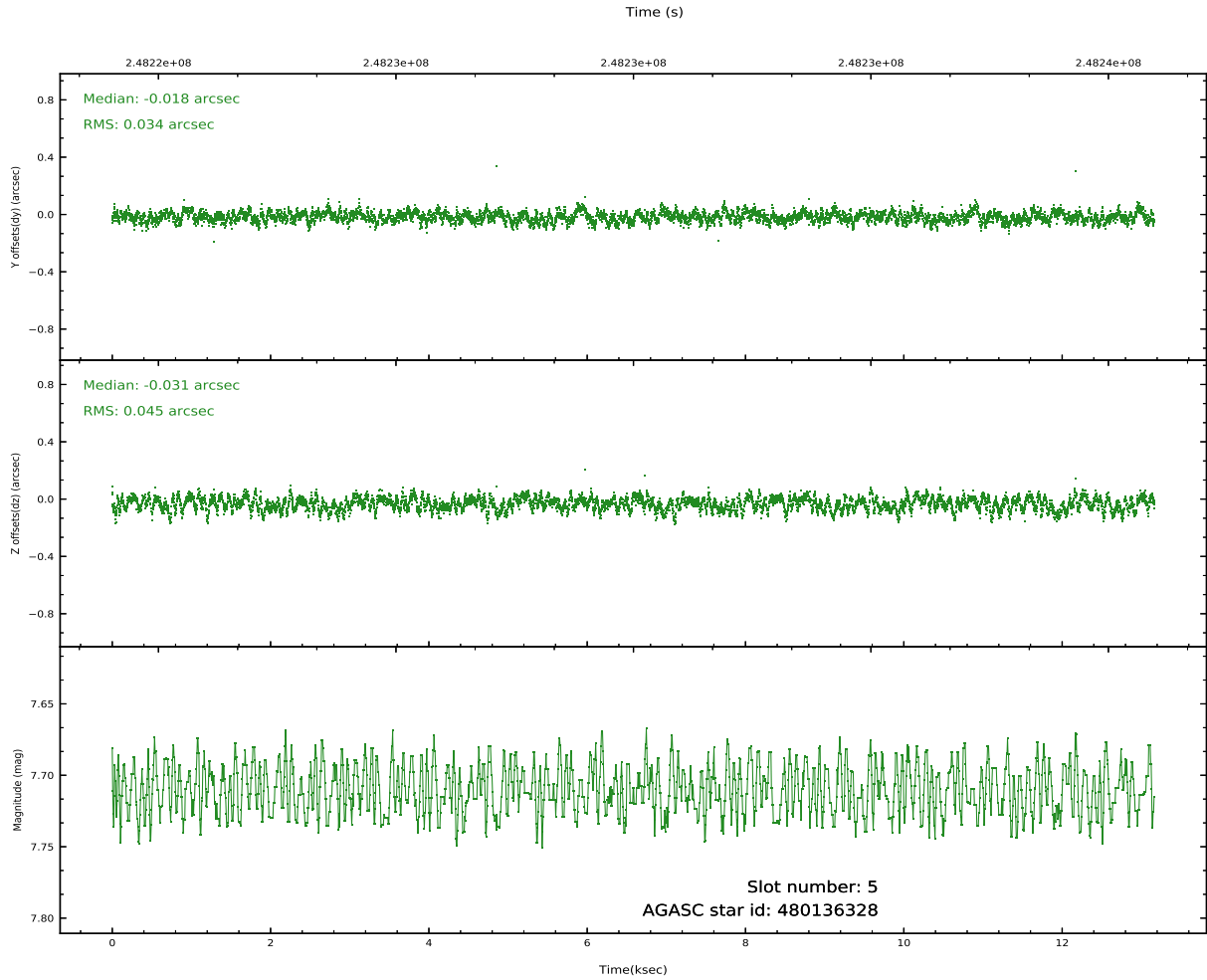
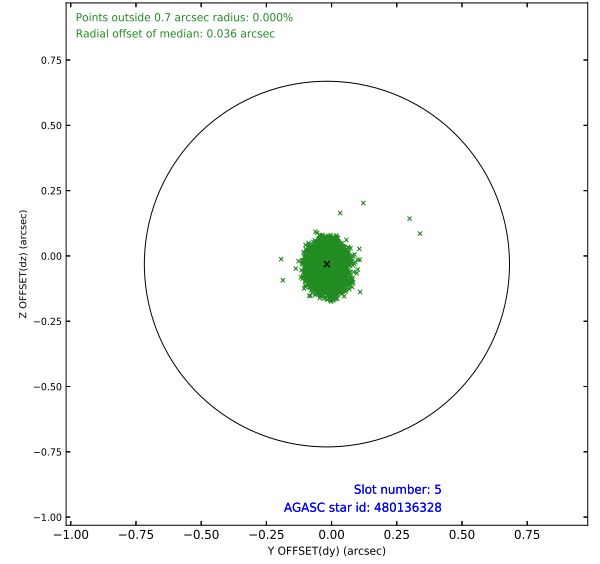
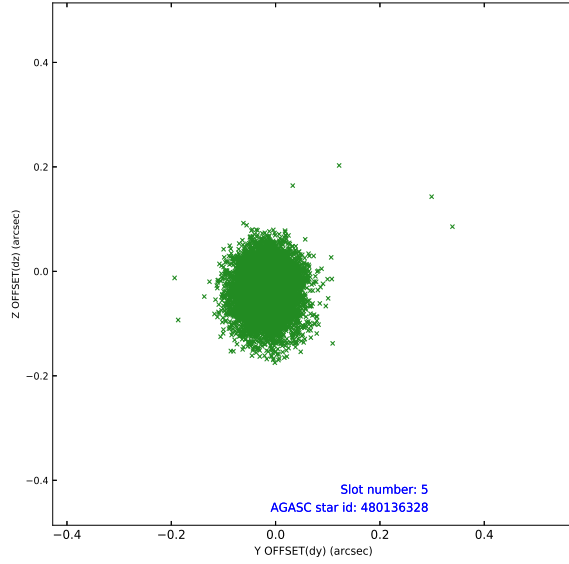
2.4.1 Slot 3



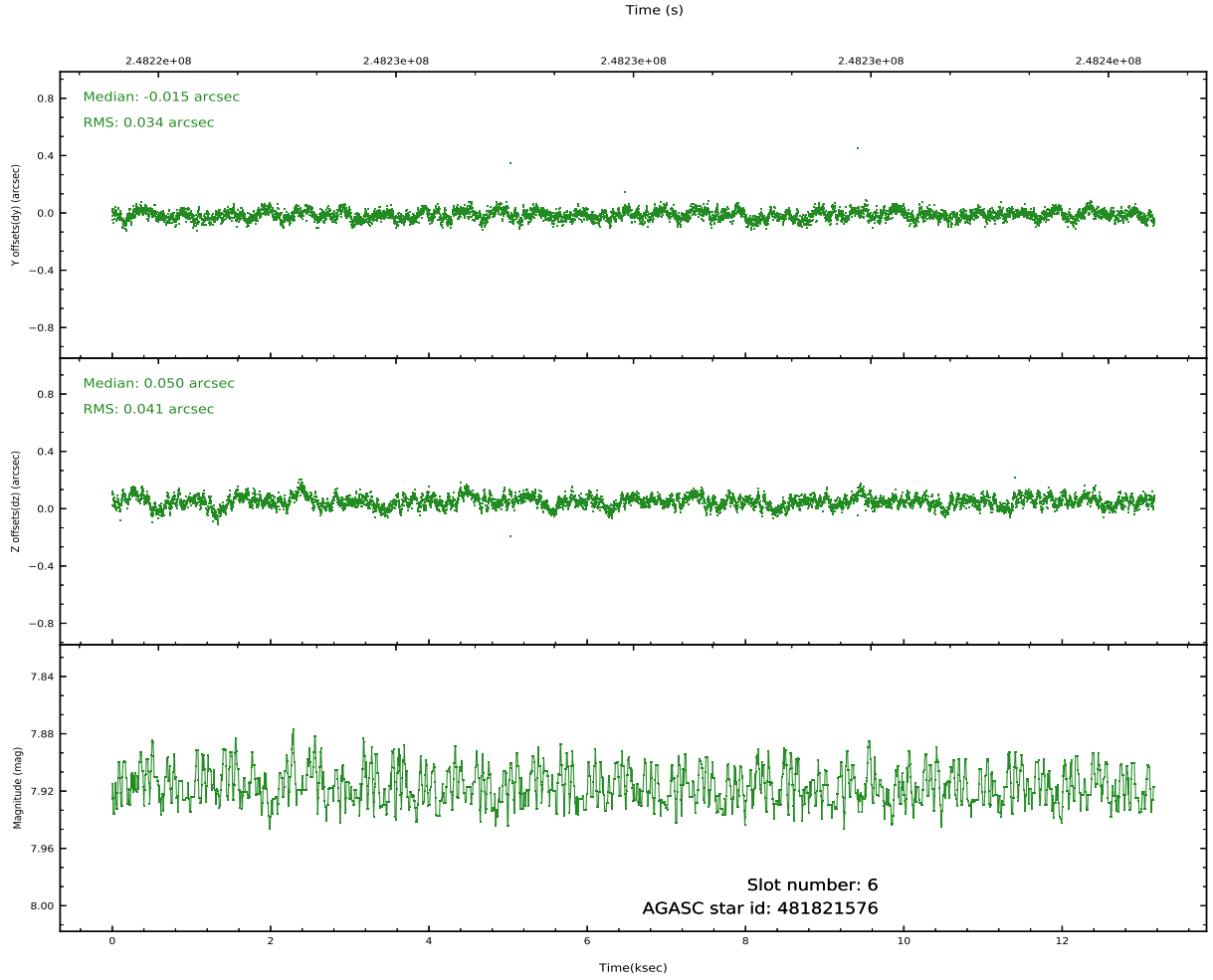
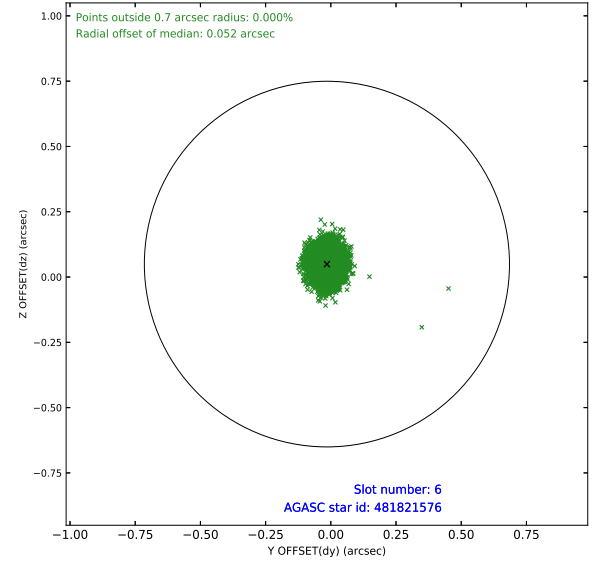
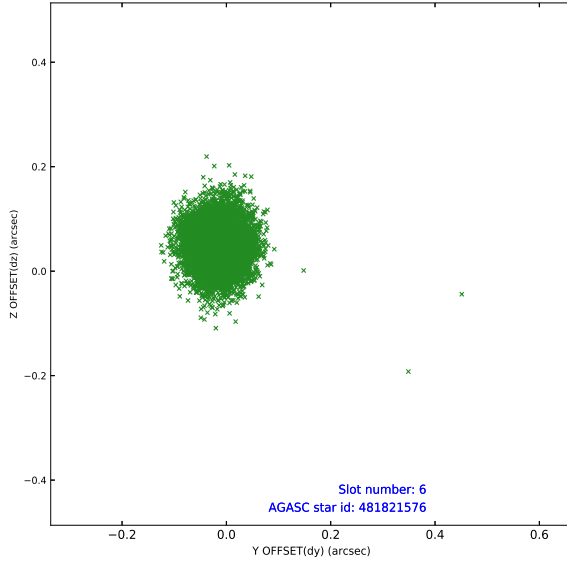
2.4.2 Slot 4



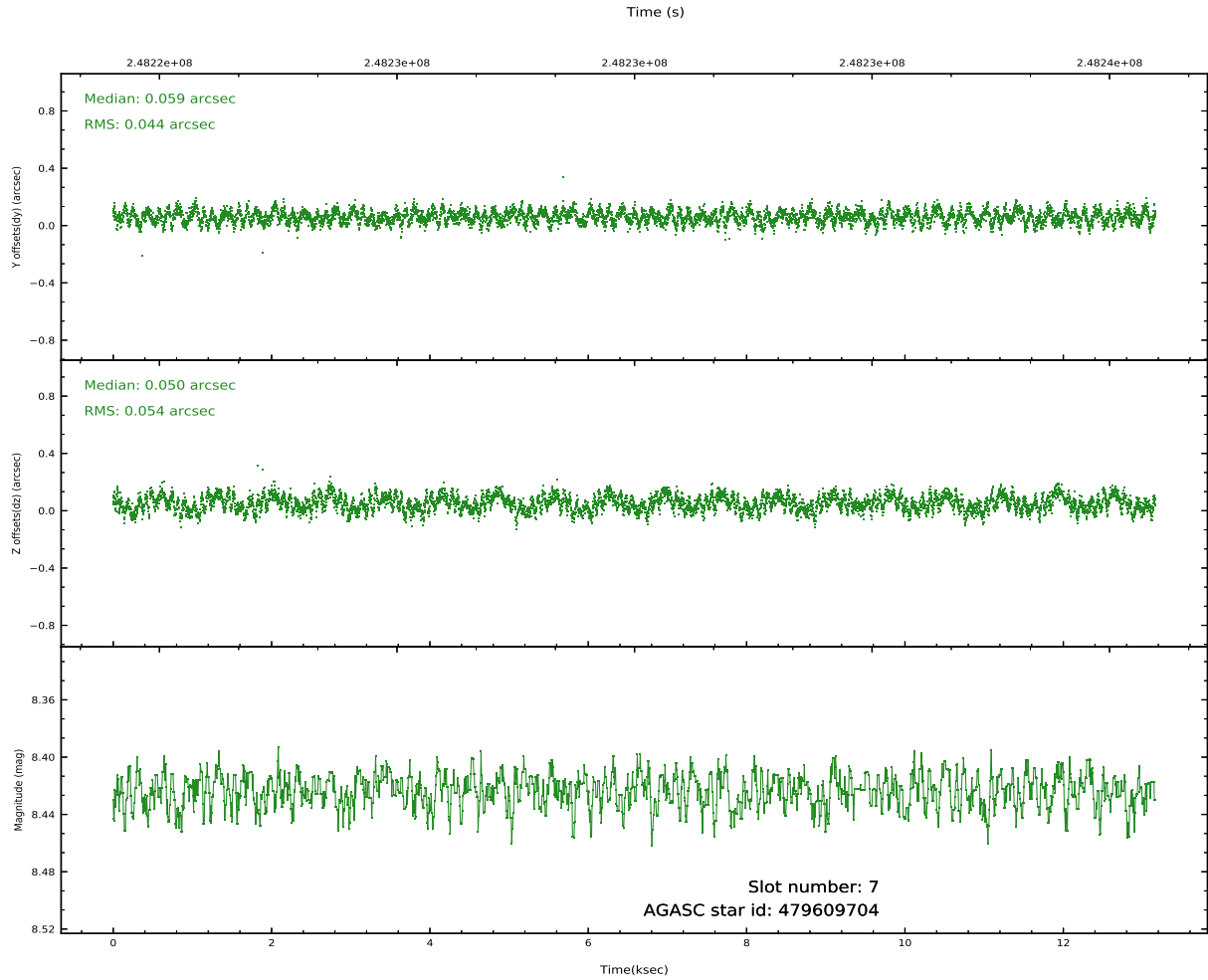
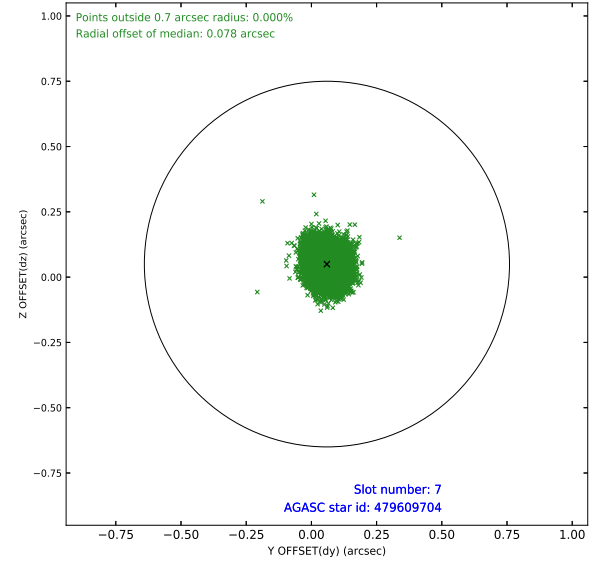
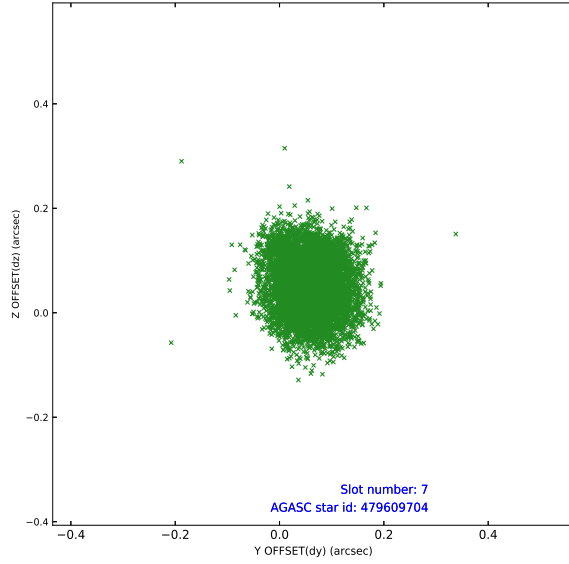
2.4.3 Slot 5



2.4.4 Slot 6

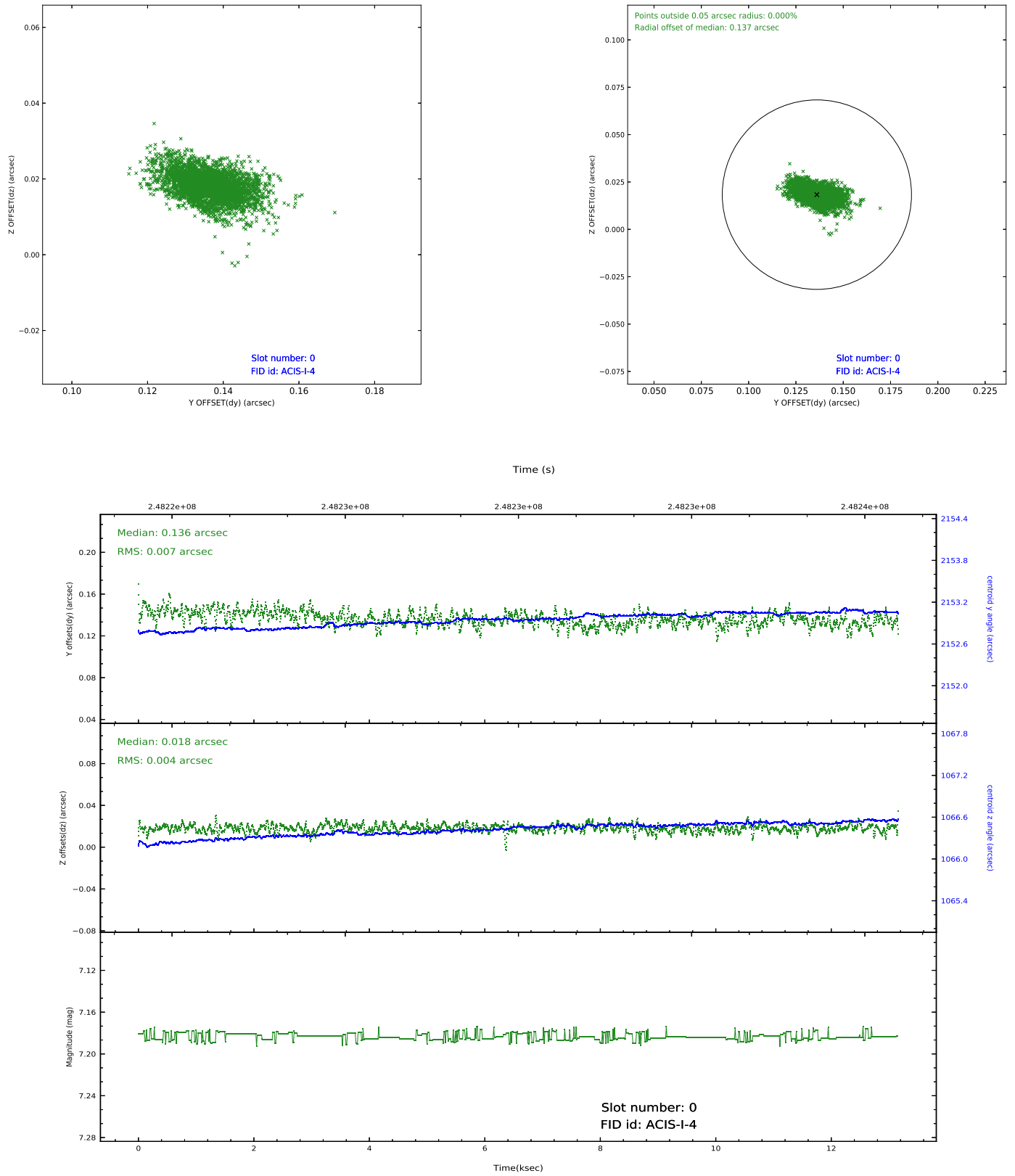


2.4.5 Slot 7

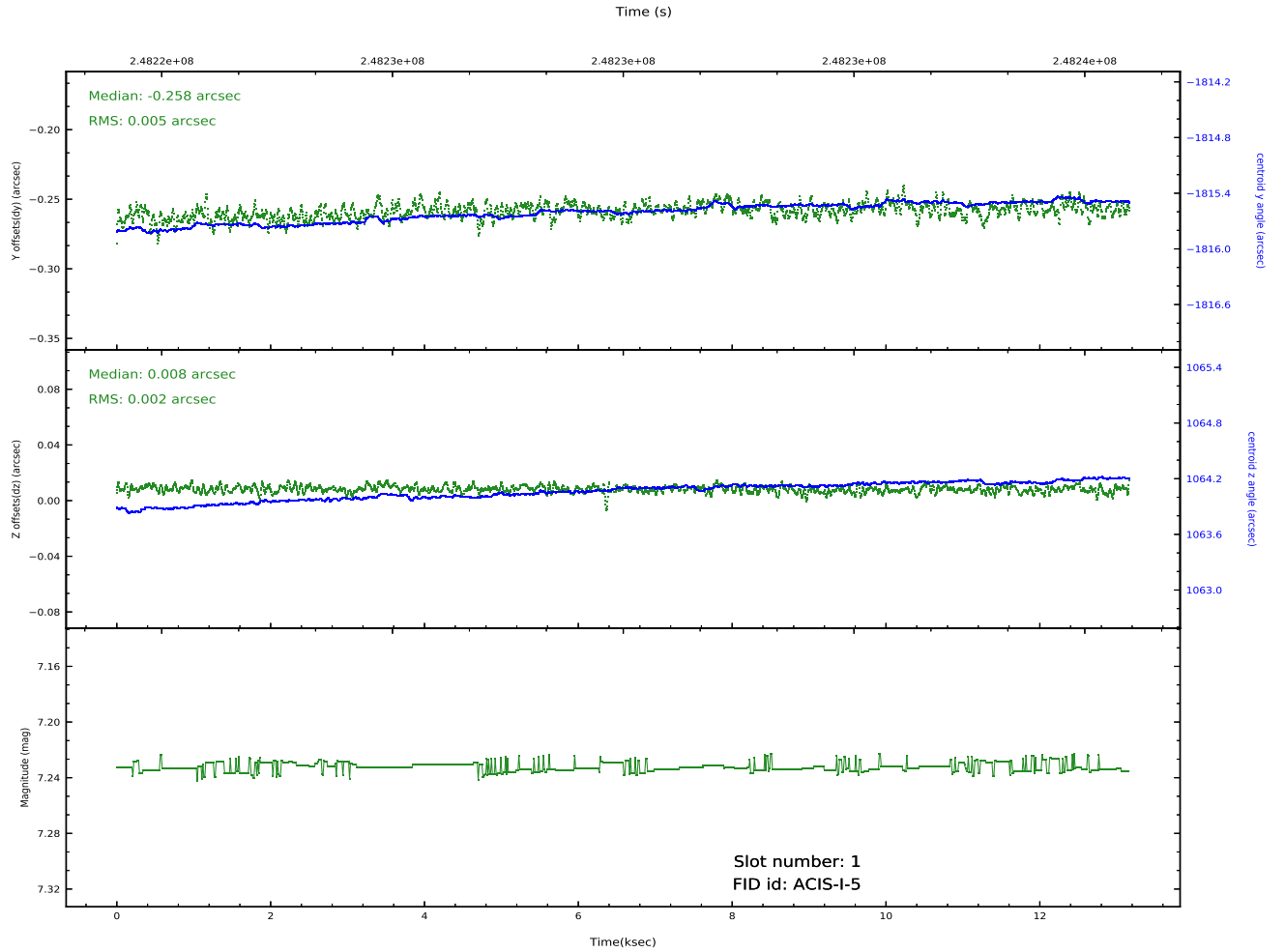
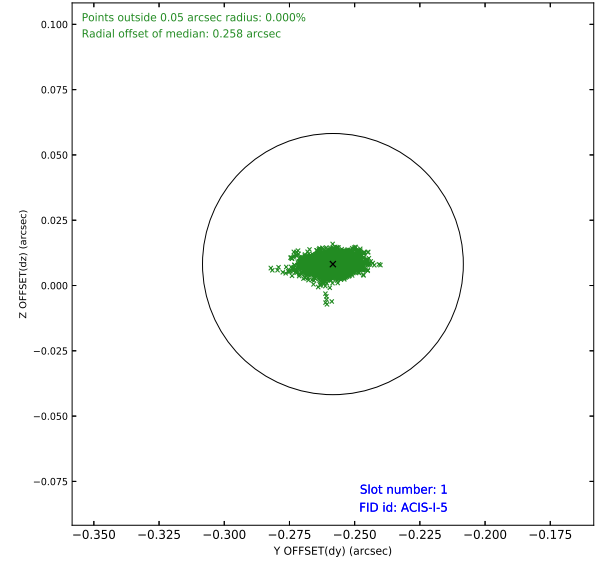
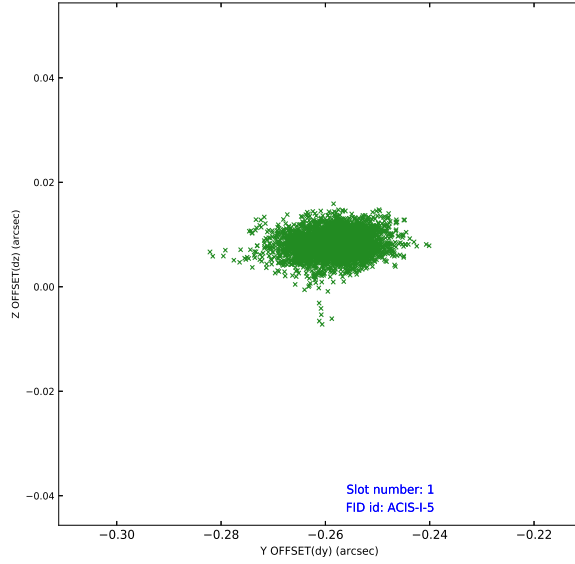


2.5 FID Slots

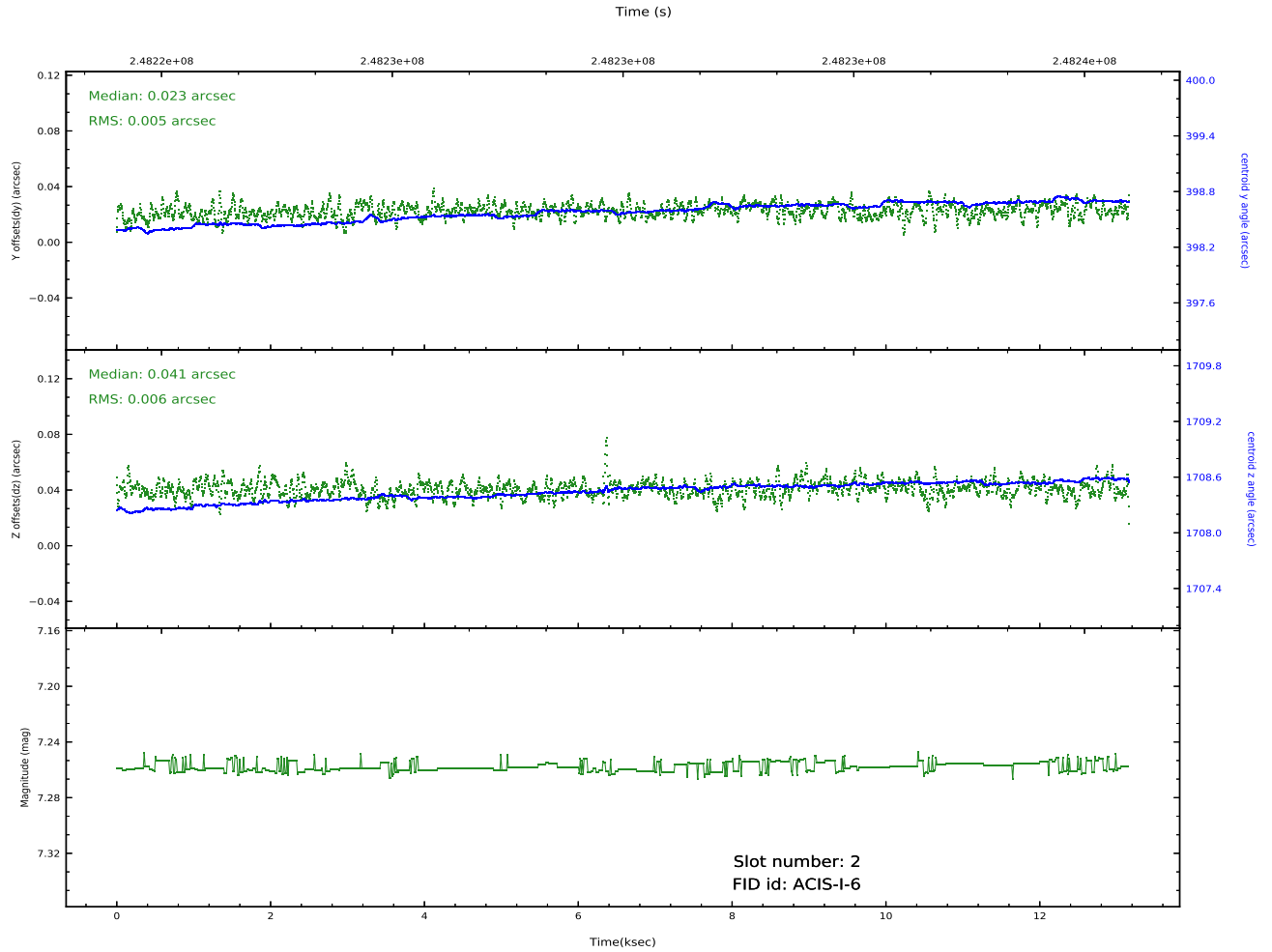
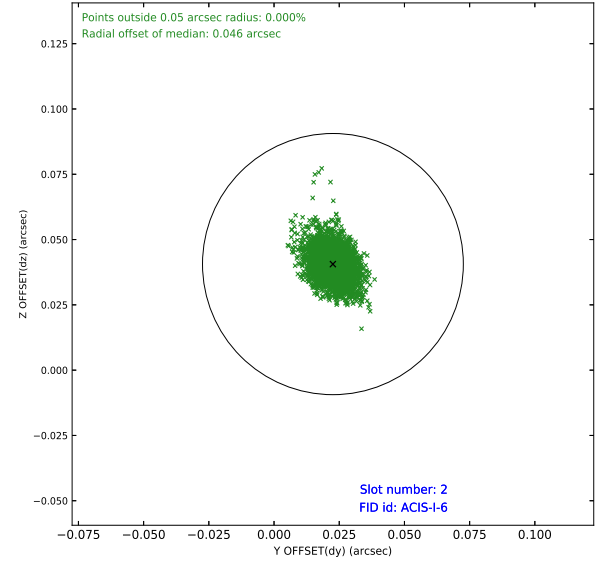
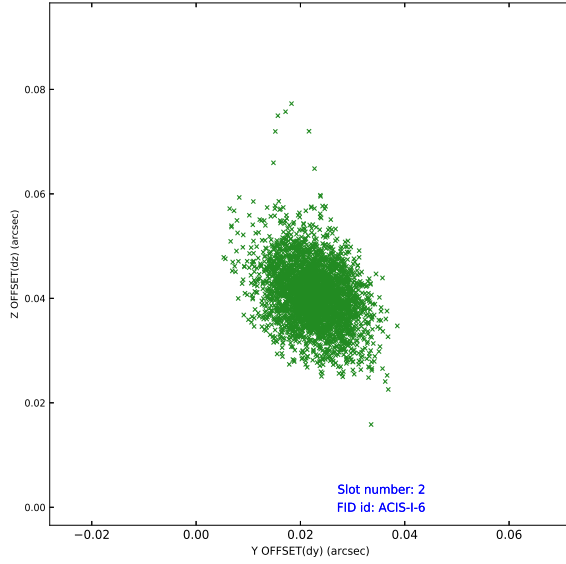
2.5.1 Slot 0



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	13.16159

A.2 Comments