

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19347 - L2 Version 2
Chandra X-Ray Center

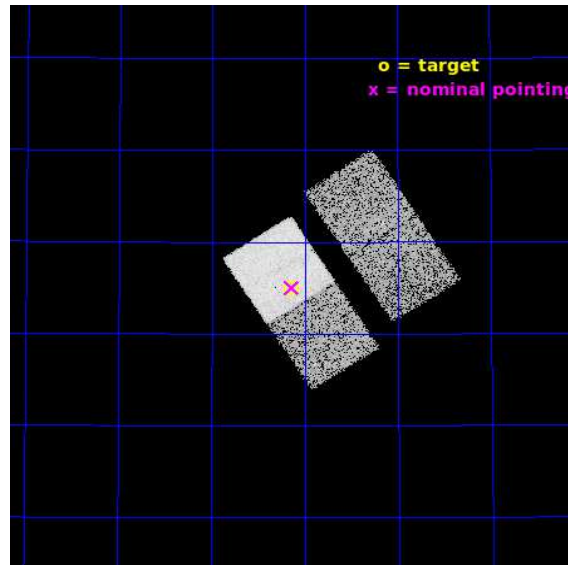
L2 Processing Date : Oct 25 2020

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1 Front

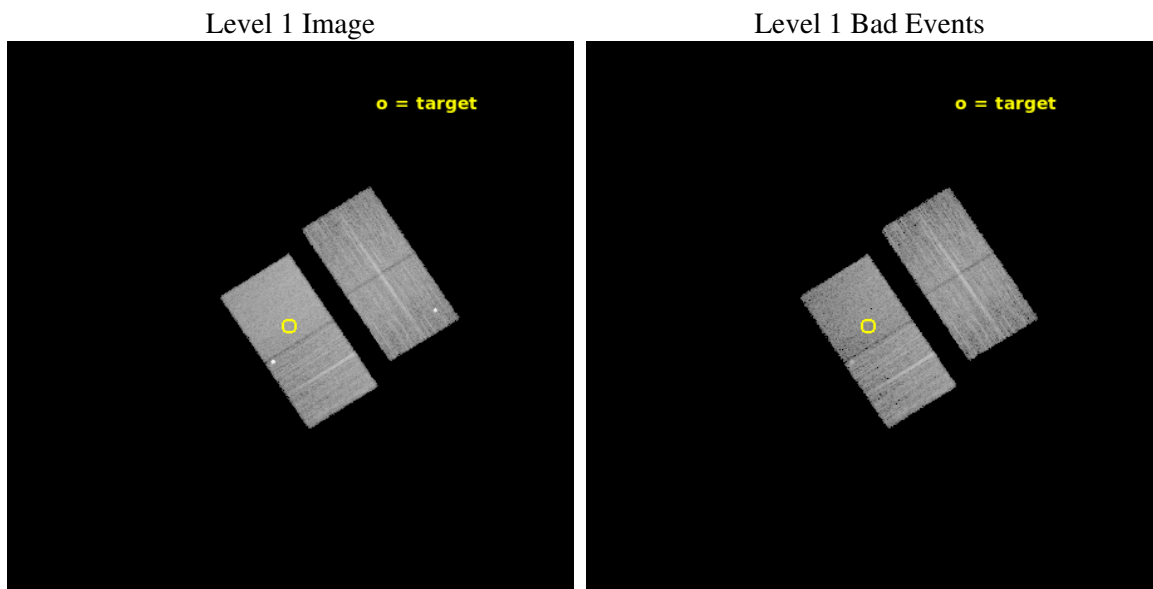
seq_num	601304	Sequence number
obs_id	19347	Observation id
title	A Statistically Complete High Resolution Chandra and Radio (eMERLIN) Survey of the Palomar Nearby Galaxies Sample	Proposal title
observer	Ian McHardy	Principal investigator
object	NGC 4100	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	181.535833	Observer's specified target RA [deg]
dec_targ	49.582306	Observer's specified target Dec [deg]
ra_nom	181.53487189419	Nominal RA [deg]
dec_nom	49.58388327034	Nominal Dec [deg]
roll_nom	237.0393600651	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10064.503558993	Sum of GTIs [s]
livetime	9933.0034106154	Livetime [s]
ontime2	10064.380439043	Sum of GTIs [s]
ontime3	10064.421478987	Sum of GTIs [s]
ontime6	10064.46251905	Sum of GTIs [s]
ontime7	10064.503558993	Sum of GTIs [s]
l2events	60009	Number of level 2 events



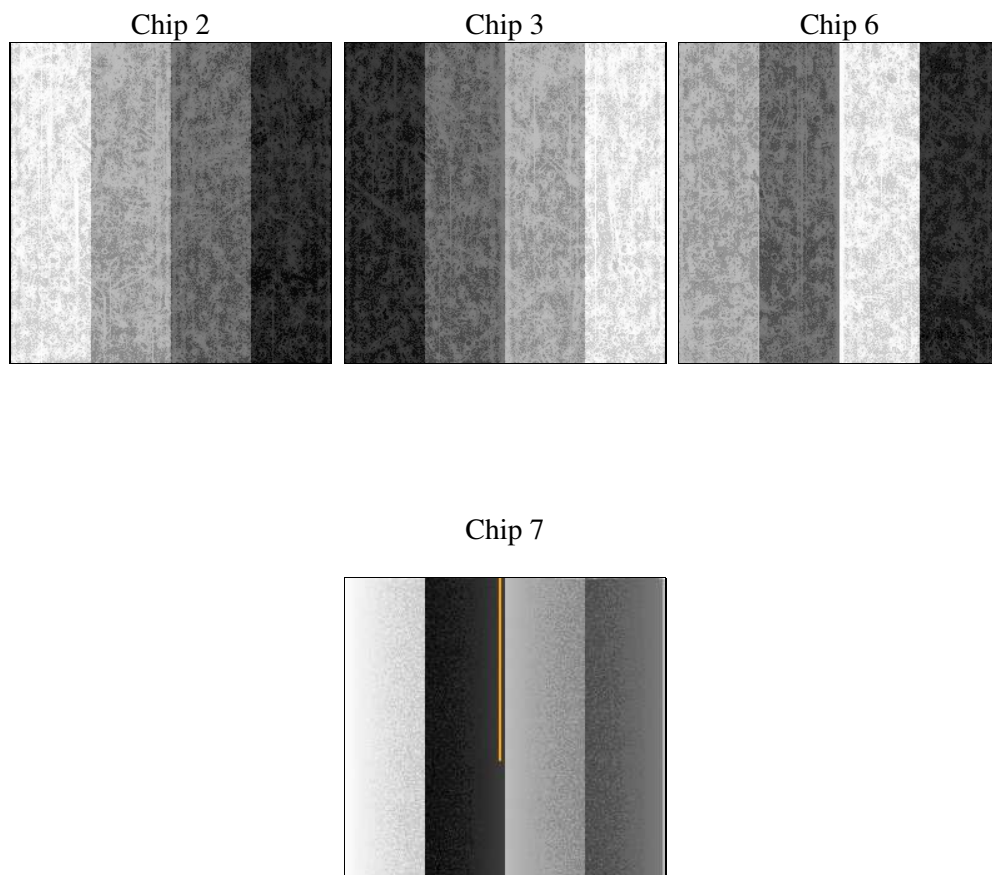
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	10064.503558993	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	10064.380439043	Sum of GTIs [s]
date	2020-10-26T02:41:35	Date and time of file creation	ontime3	10064.421478987	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	10064.46251905	Sum of GTIs [s]
			ontime7	10064.503558993	Sum of GTIs [s]
			l1events	320734	Number of level 1 events

2.1.4 Events

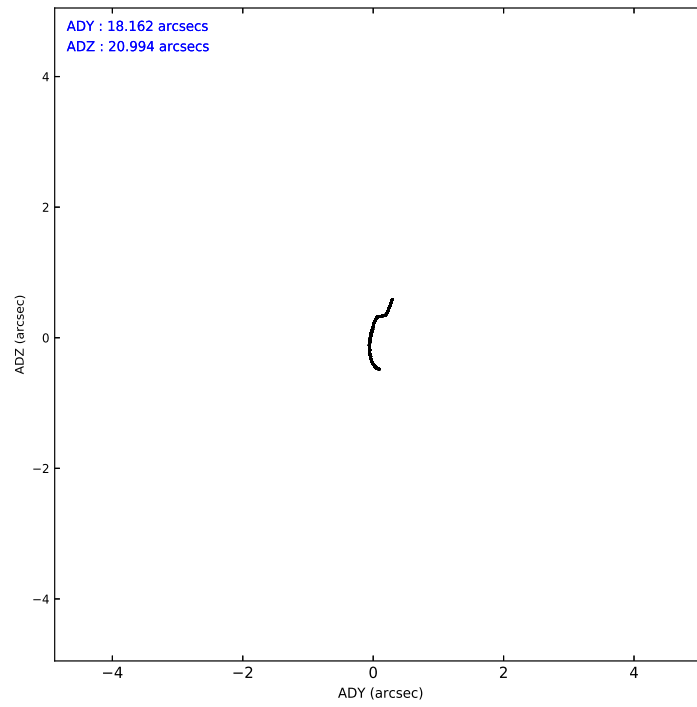
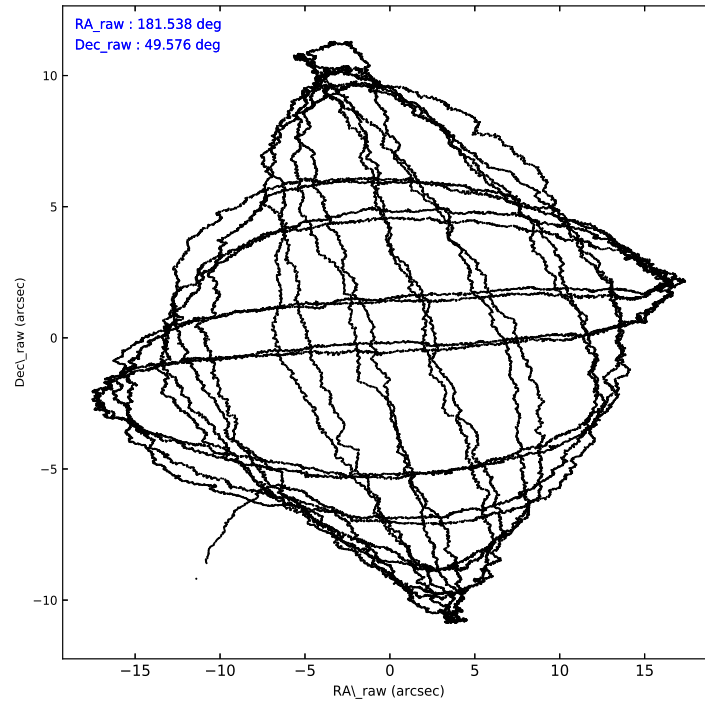
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	76673	70288	78896	94877
rejected events	66889	62874	67406	53798
rejected %	87%	89%	85%	56%

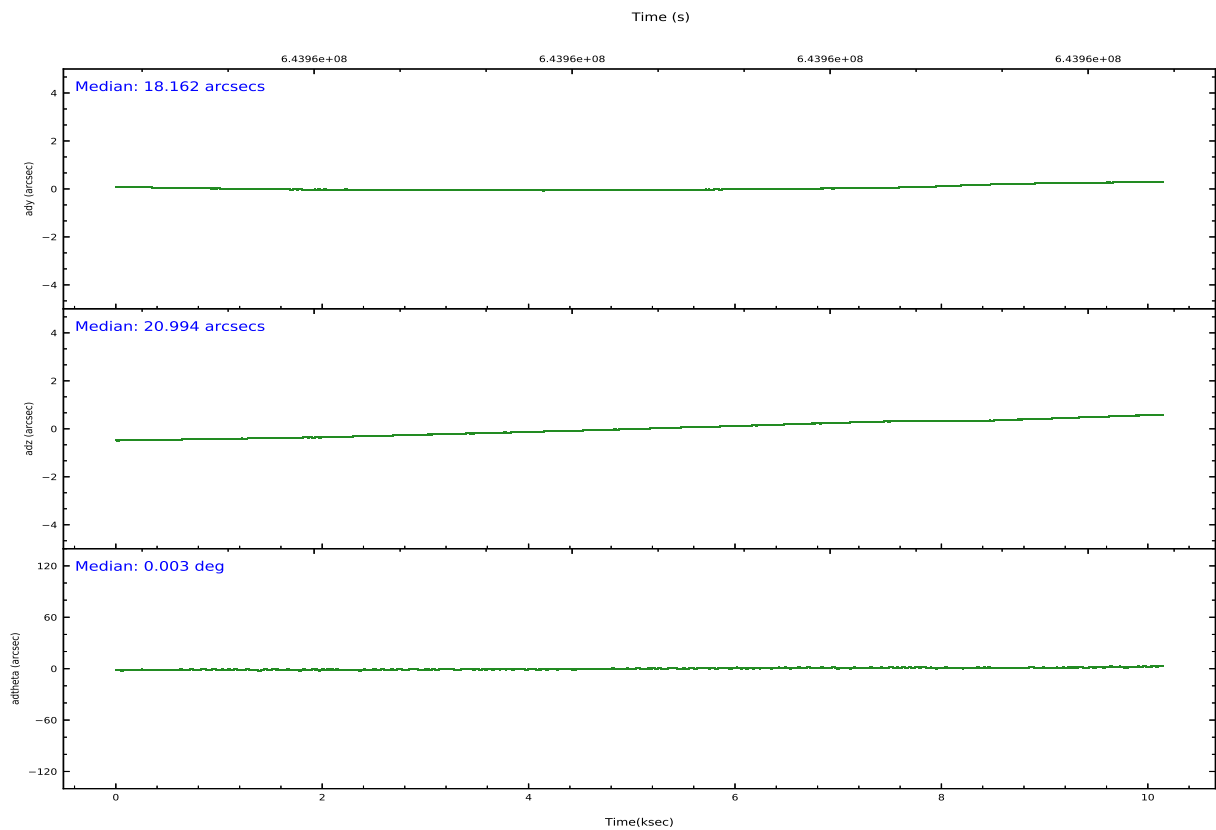
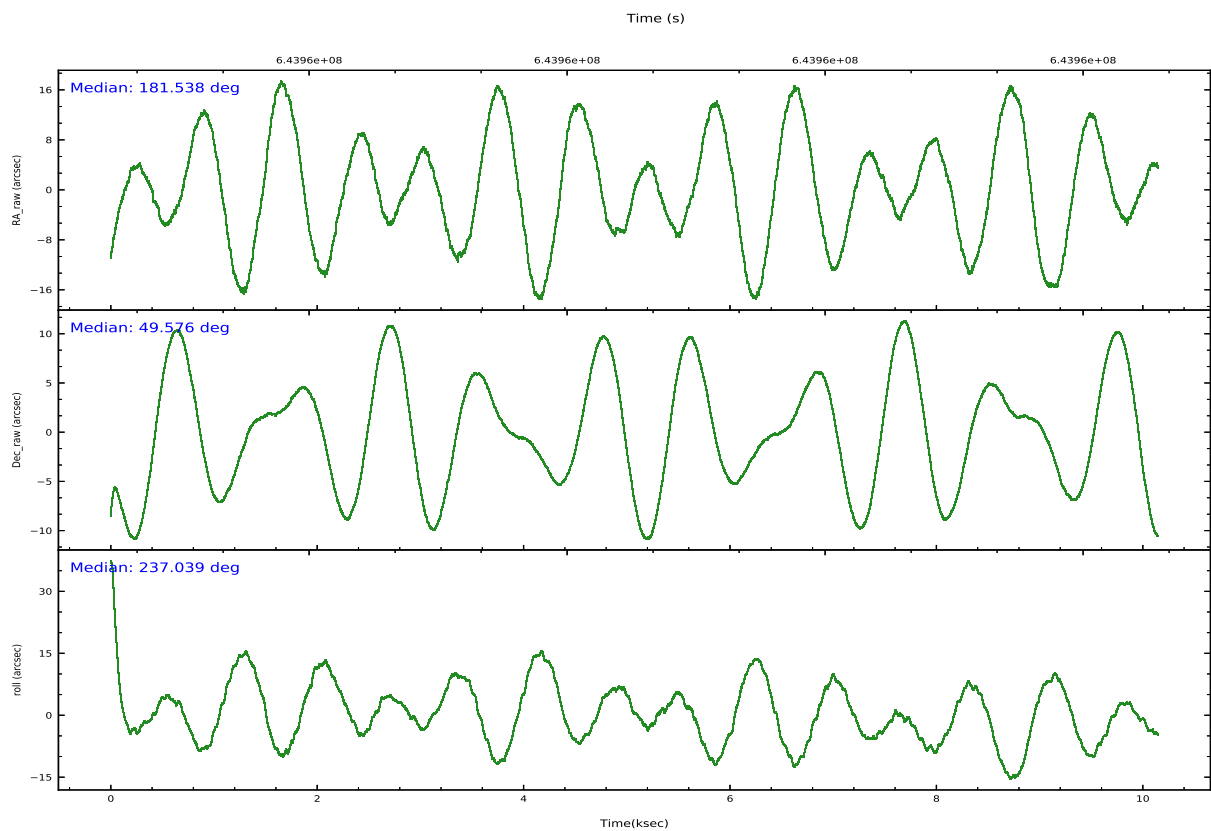
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	4870	2489	2680	3479
	6%	3%	3%	3%
grade 1 events	52	30	32	151
	0%	0%	0%	0%
grade 2 events	1842	1725	5148	8780
	2%	2%	6%	9%
grade 3 events	808	811	791	3260
	1%	1%	1%	3%
grade 4 events	772	761	798	3152
	1%	1%	1%	3%
grade 5 events	2910	3439	3423	9243
	3%	4%	4%	9%
grade 6 events	1498	1633	2077	22439
	1%	2%	2%	23%
grade 7 events	63921	59400	63947	44373
	83%	84%	81%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-2367	ACIS-2367	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	181.539816	181.53487189419	Subarray requested	NONE	NONE
[deg] Pointing Dec	49.603676	49.58388327034	Alternating exposures requested	N	N
[deg] Pointing Roll	236.889620	237.0393600651	[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)	643953227.184000	643952113.45687			
Observation start date	2018-05-29T03:52:38	2018-05-29T03:35:13			
[s] Observation end time (MET)	643963227.184000	643964036.25757			
Observation end date	2018-05-29T06:39:18	2018-05-29T06:53:56			
Read mode	TIMED	TIMED			

2.3 Aspect



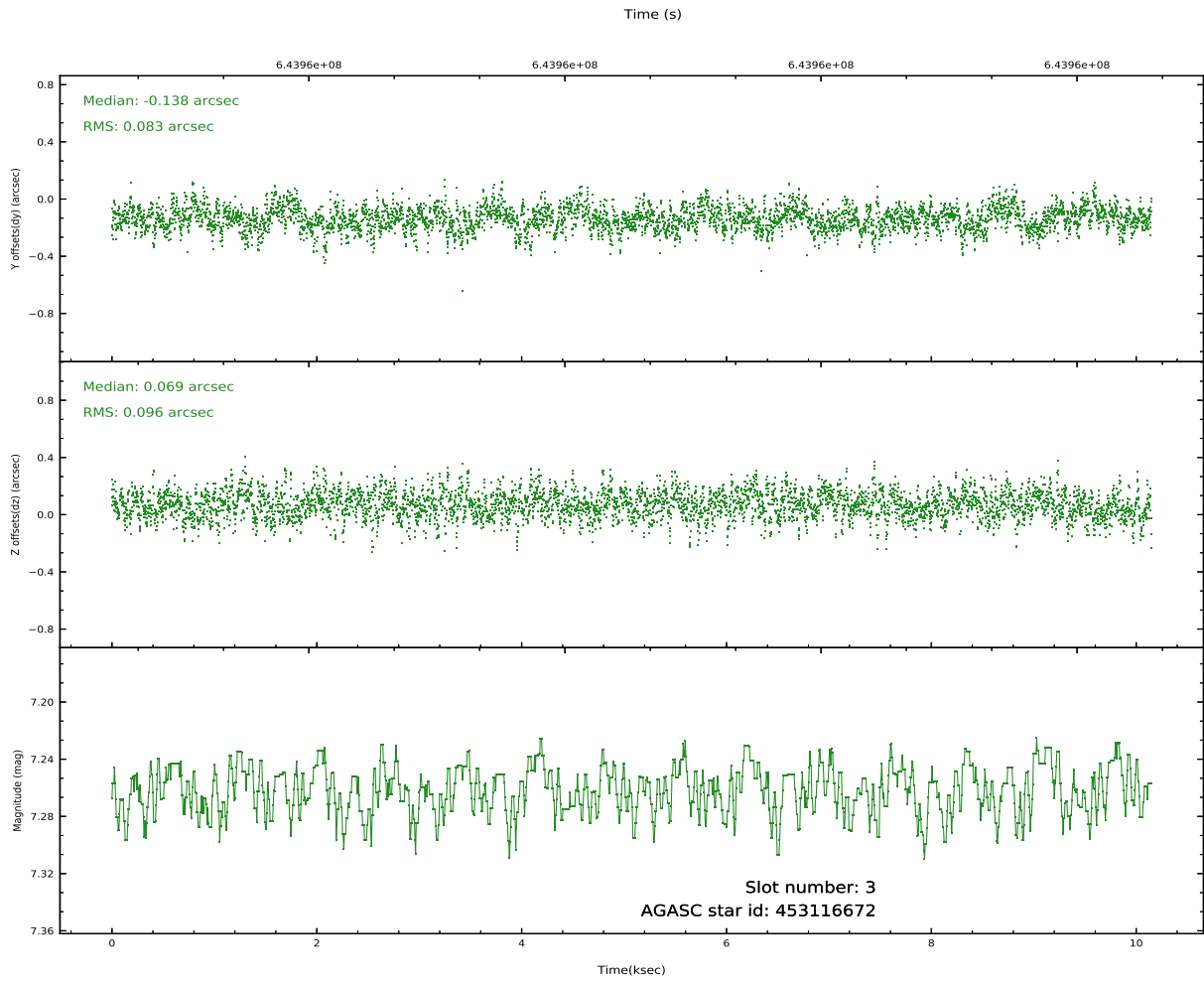
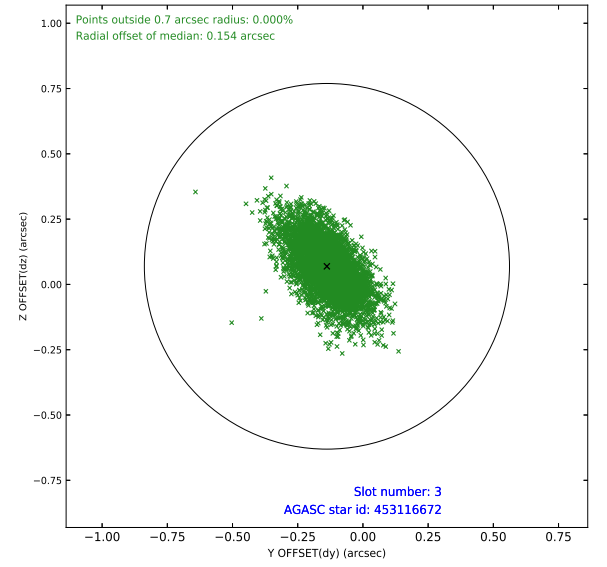
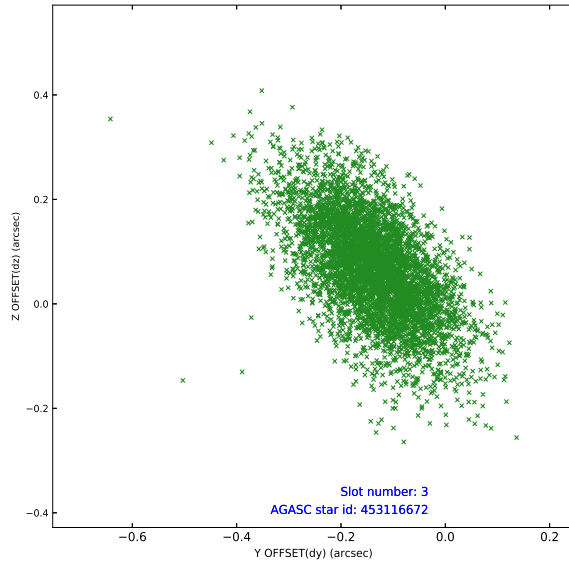


Slot Statistics

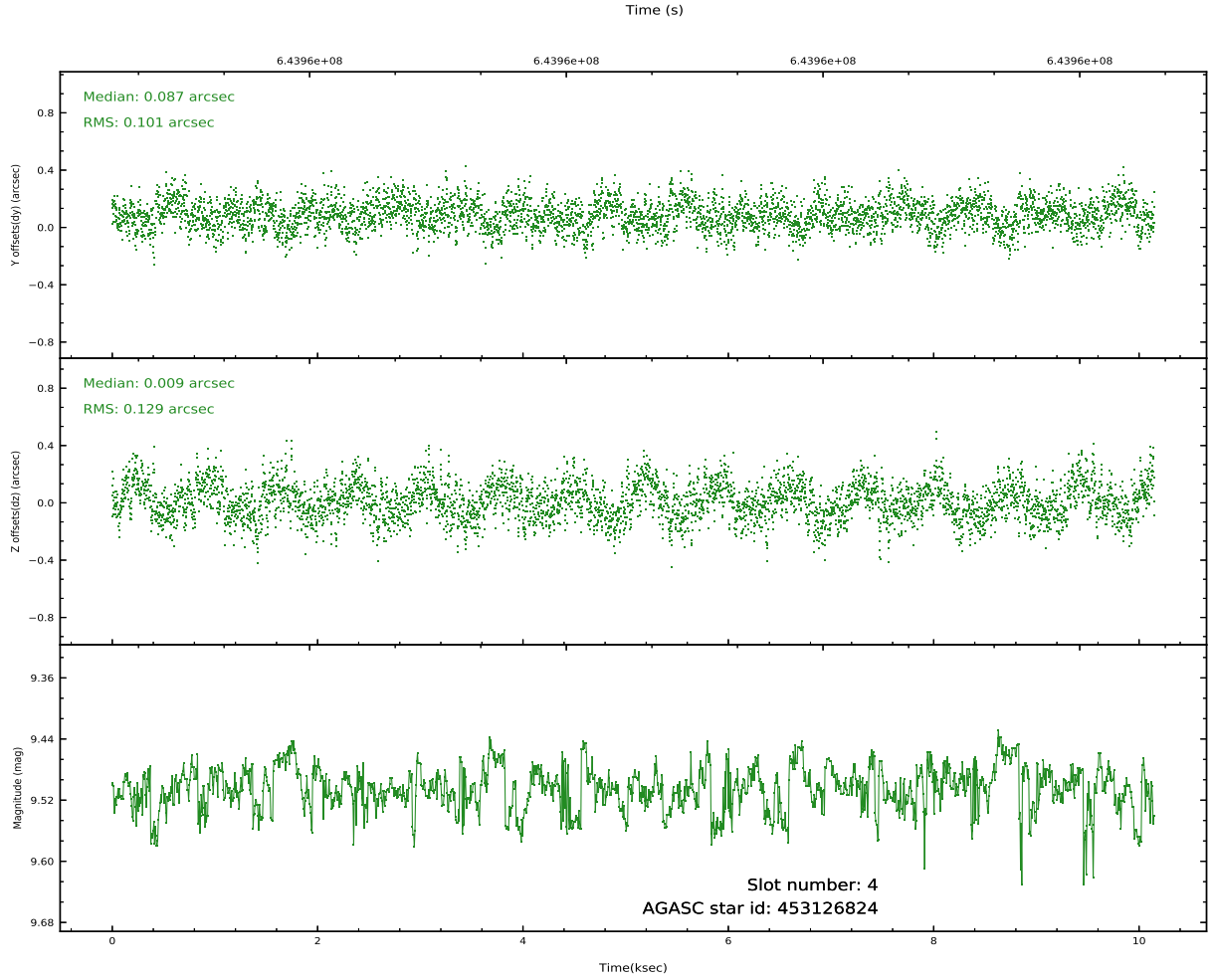
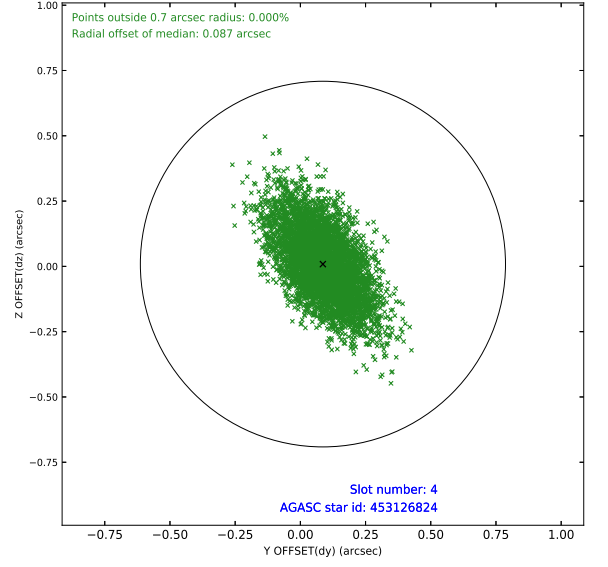
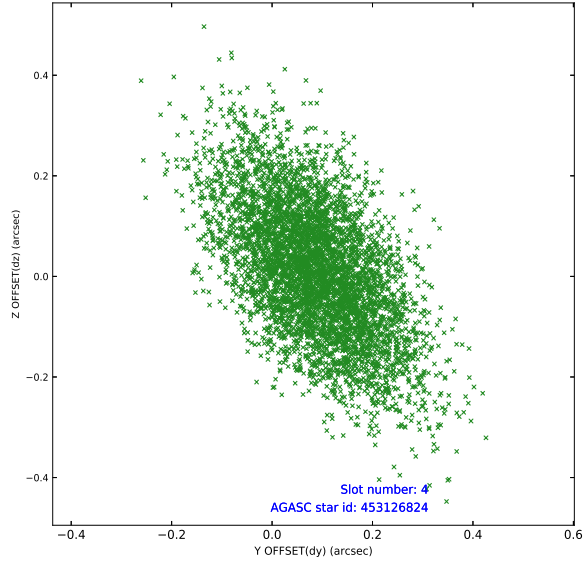
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.07	2476	1.000	0.116	-0.090	0.012	0.020	0.000000	0.000000	-771.36	-1742
1	FID		ACIS-S-4	7.17	2476	1.000	0.107	-0.031	0.007	0.013	0.000000	0.000000	2141.90	165
2	FID		ACIS-S-5	7.16	2476	1.000	-0.254	0.130	0.011	0.017	0.000000	0.000000	-1823.68	160
3	GUIDE	used	453116672	7.26	4952	1.000	-0.138	0.069	0.129	0.234	181.249284	50.283723	-1686.11	-1898
4	GUIDE	used	453126824	9.50	4945	1.000	0.087	0.009	0.168	0.295	181.252350	49.522681	610.10	-404
5	GUIDE	used	453129536	7.82	4948	1.000	0.065	-0.193	0.139	0.249	181.524639	49.158423	1363.63	843
6	GUIDE	used	453126136	9.18	4943	1.000	0.276	0.252	0.149	0.264	181.430643	49.682223	-97.22	-367
7	GUIDE	used	453126392	7.28	4951	1.000	-0.292	-0.140	0.145	0.256	182.223494	49.185350	376.50	2165

2.4 Star Slots

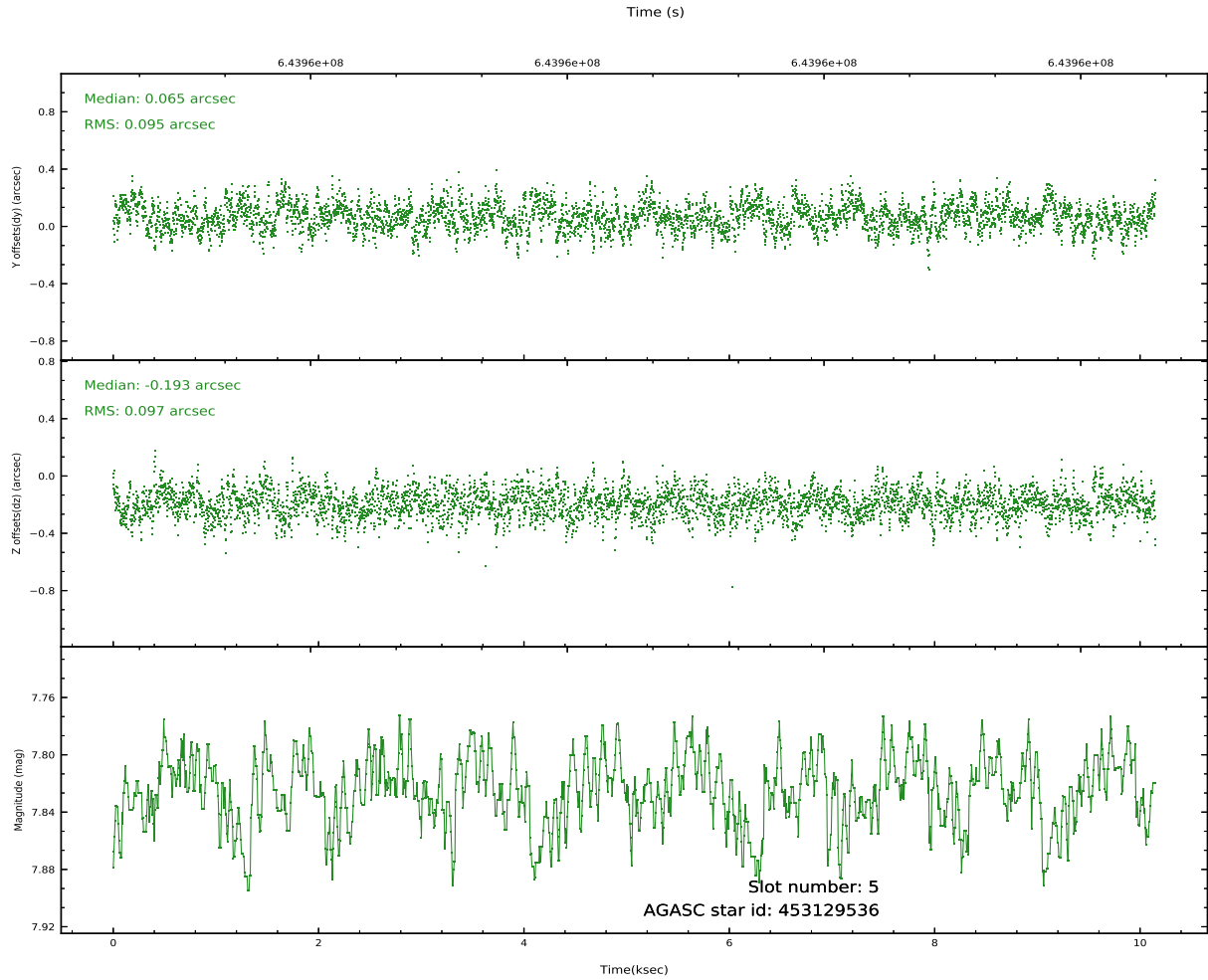
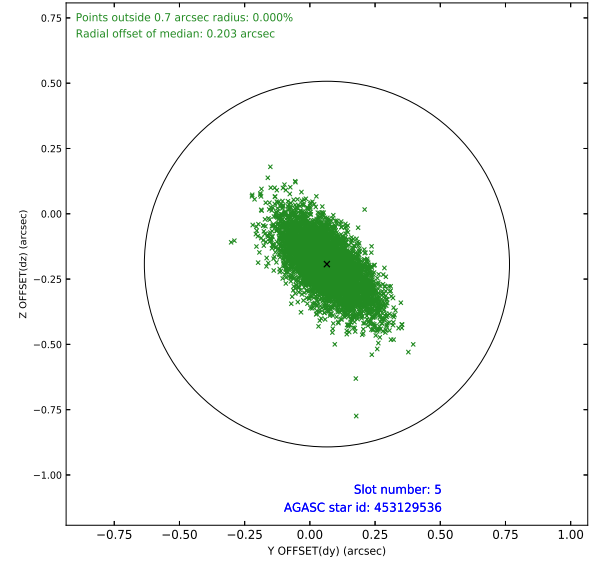
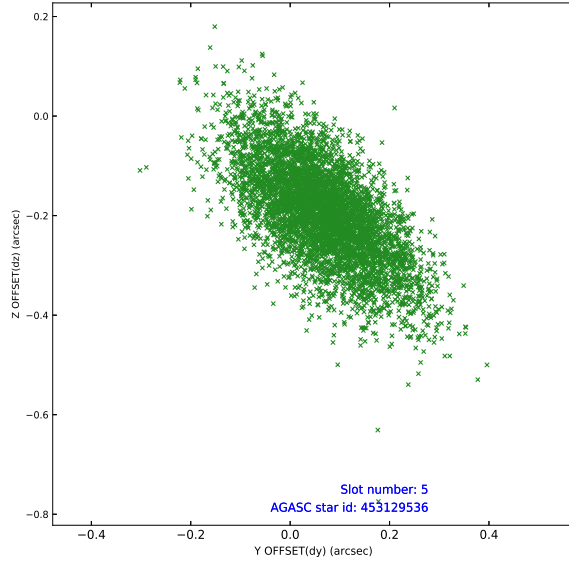
2.4.1 Slot 3



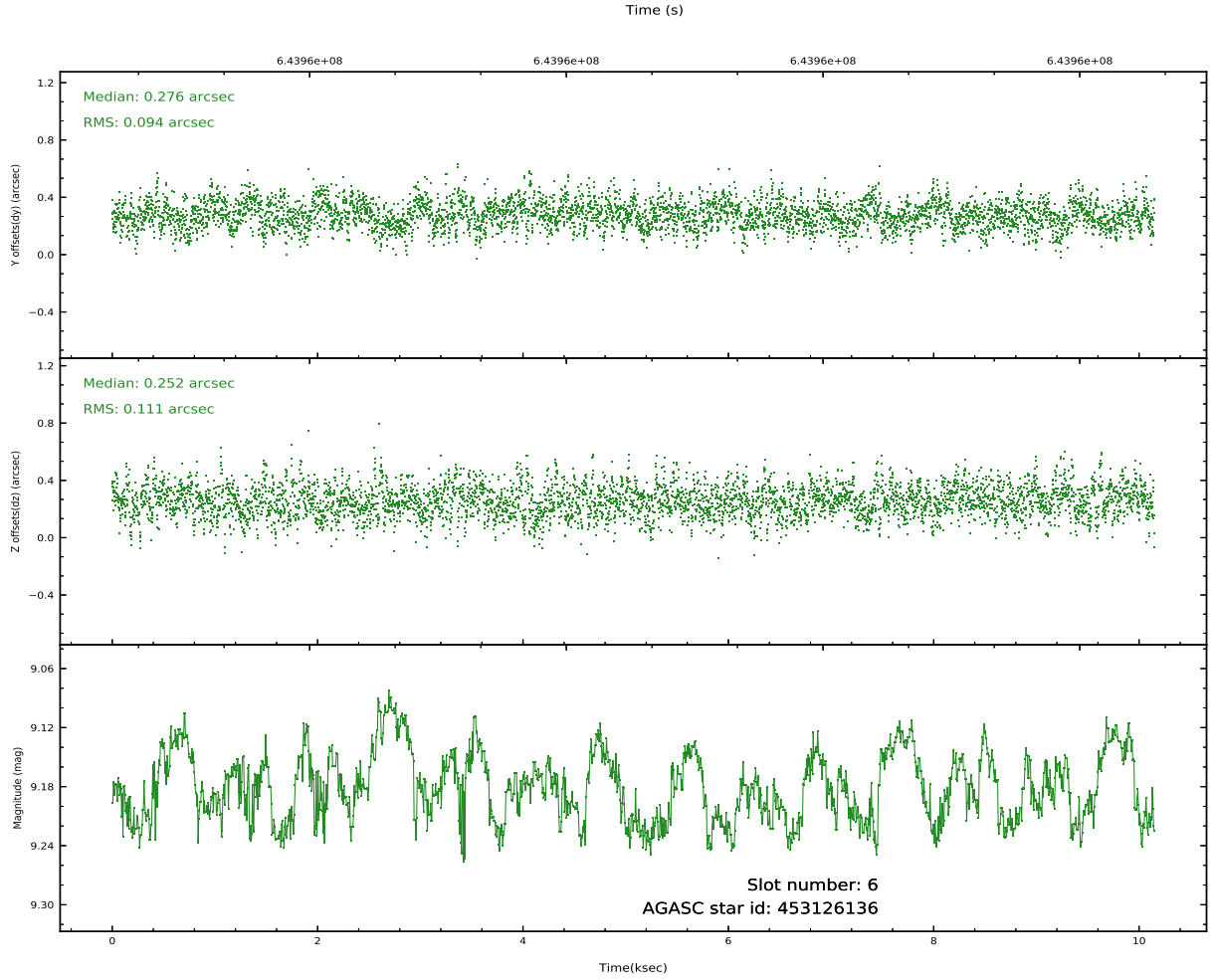
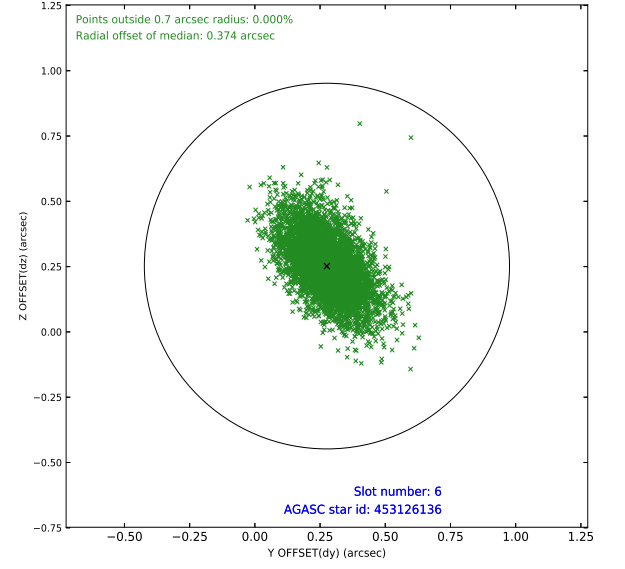
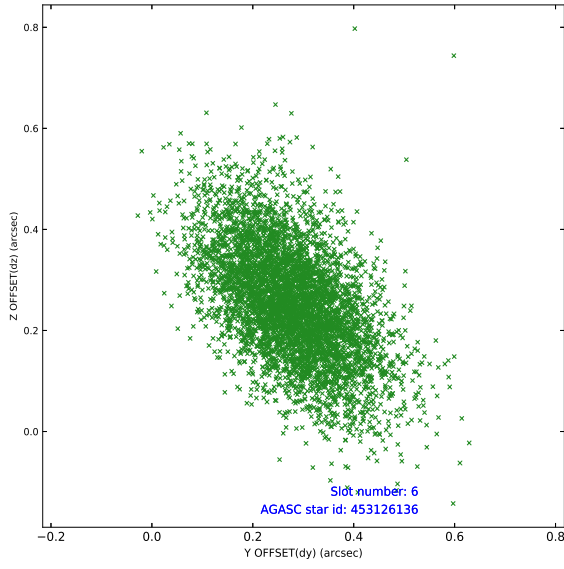
2.4.2 Slot 4



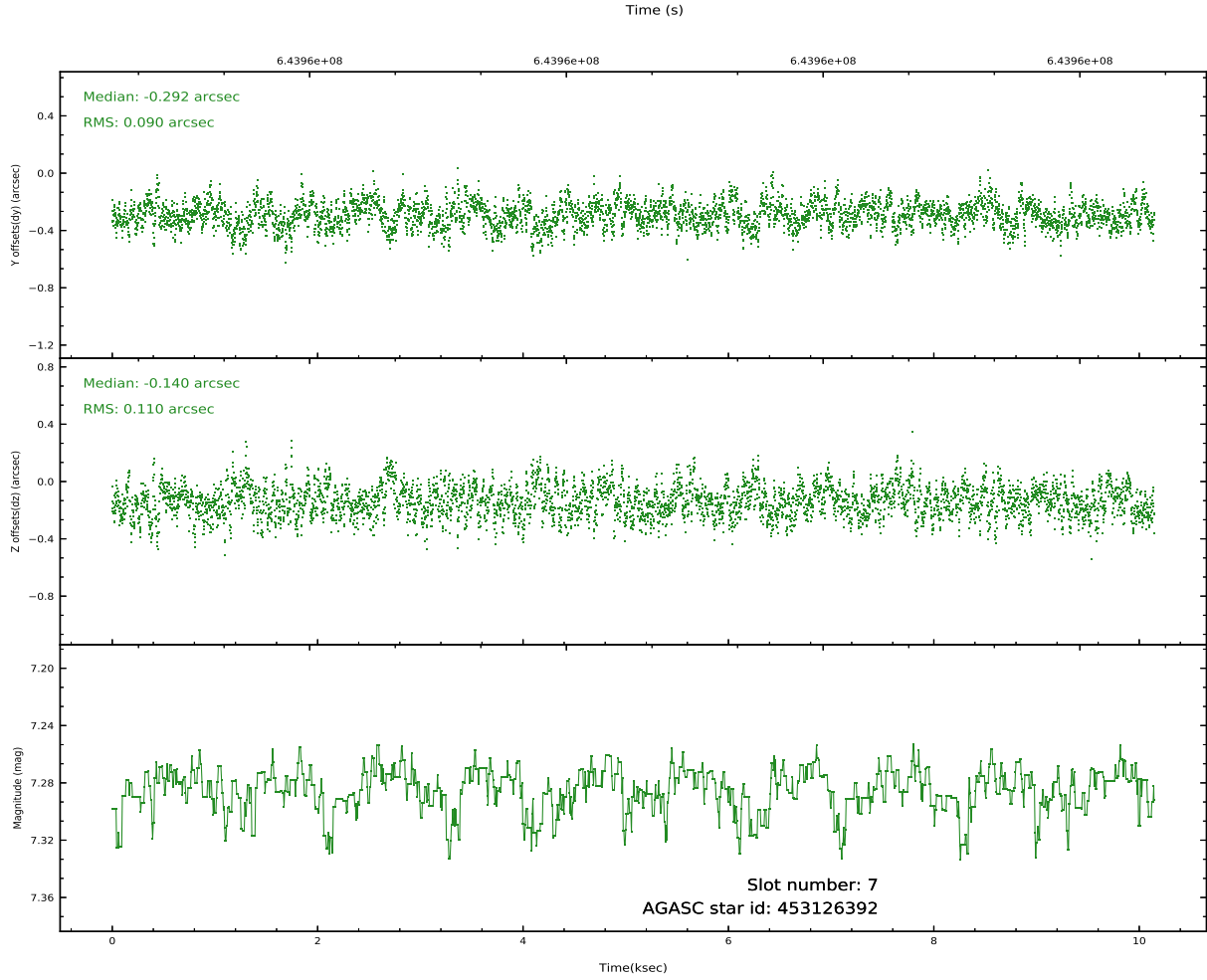
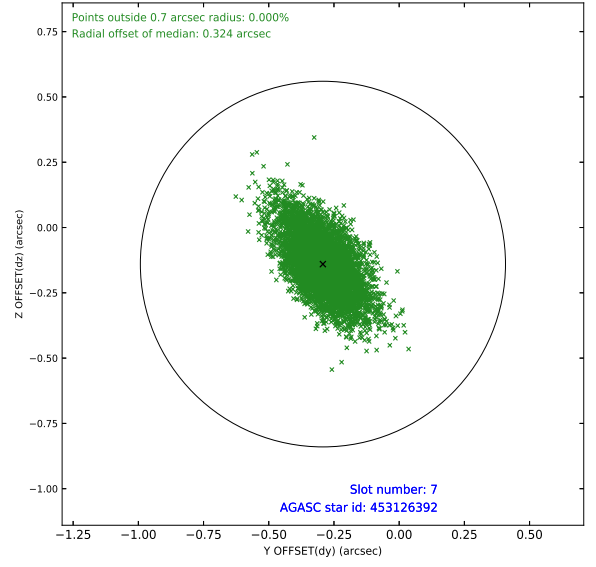
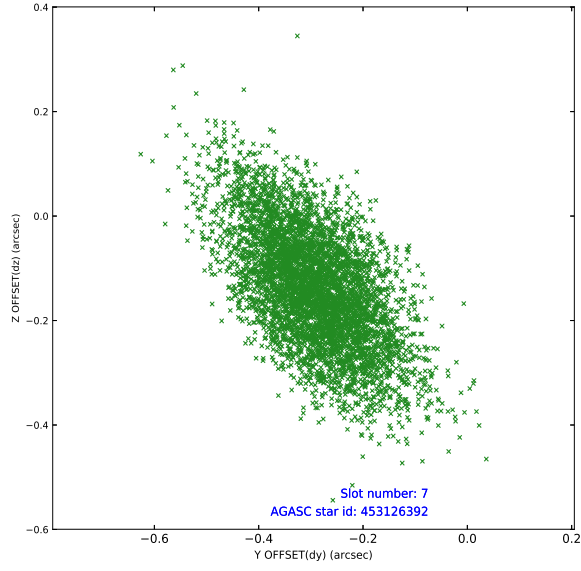
2.4.3 Slot 5



2.4.4 Slot 6

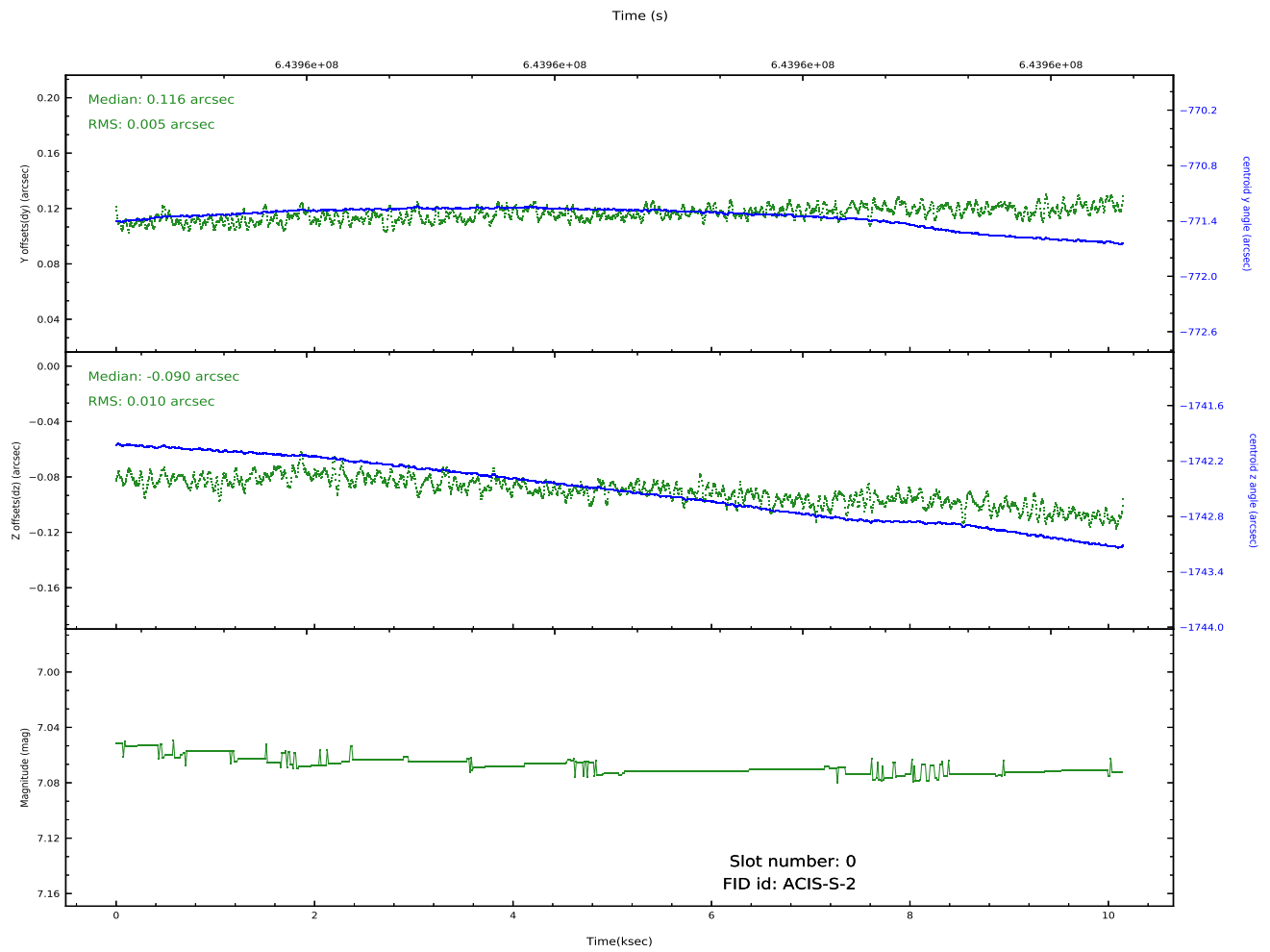
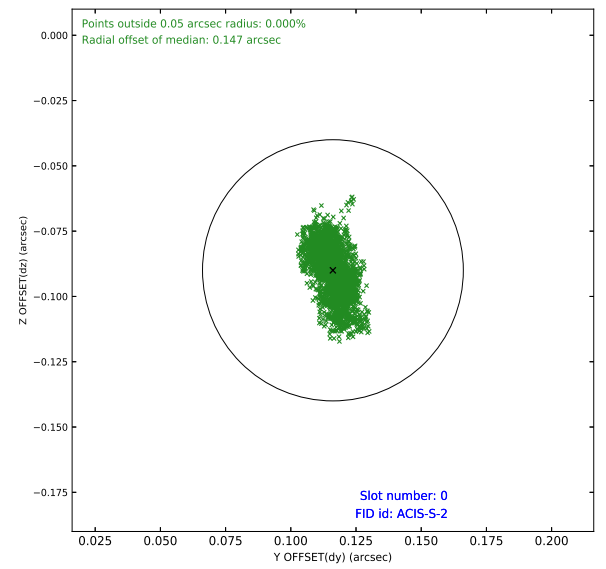
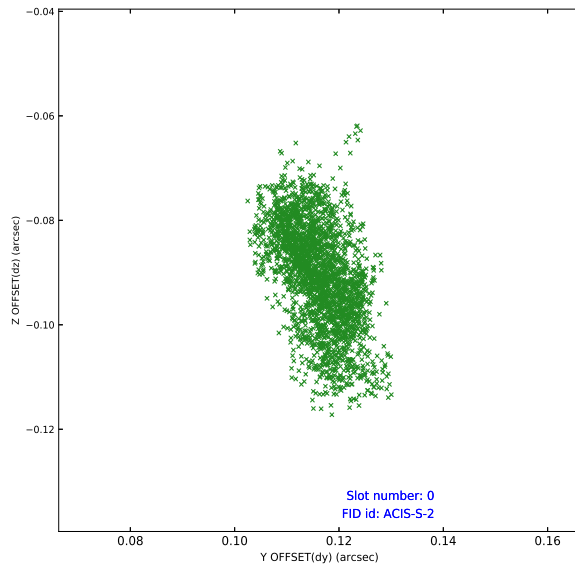


2.4.5 Slot 7

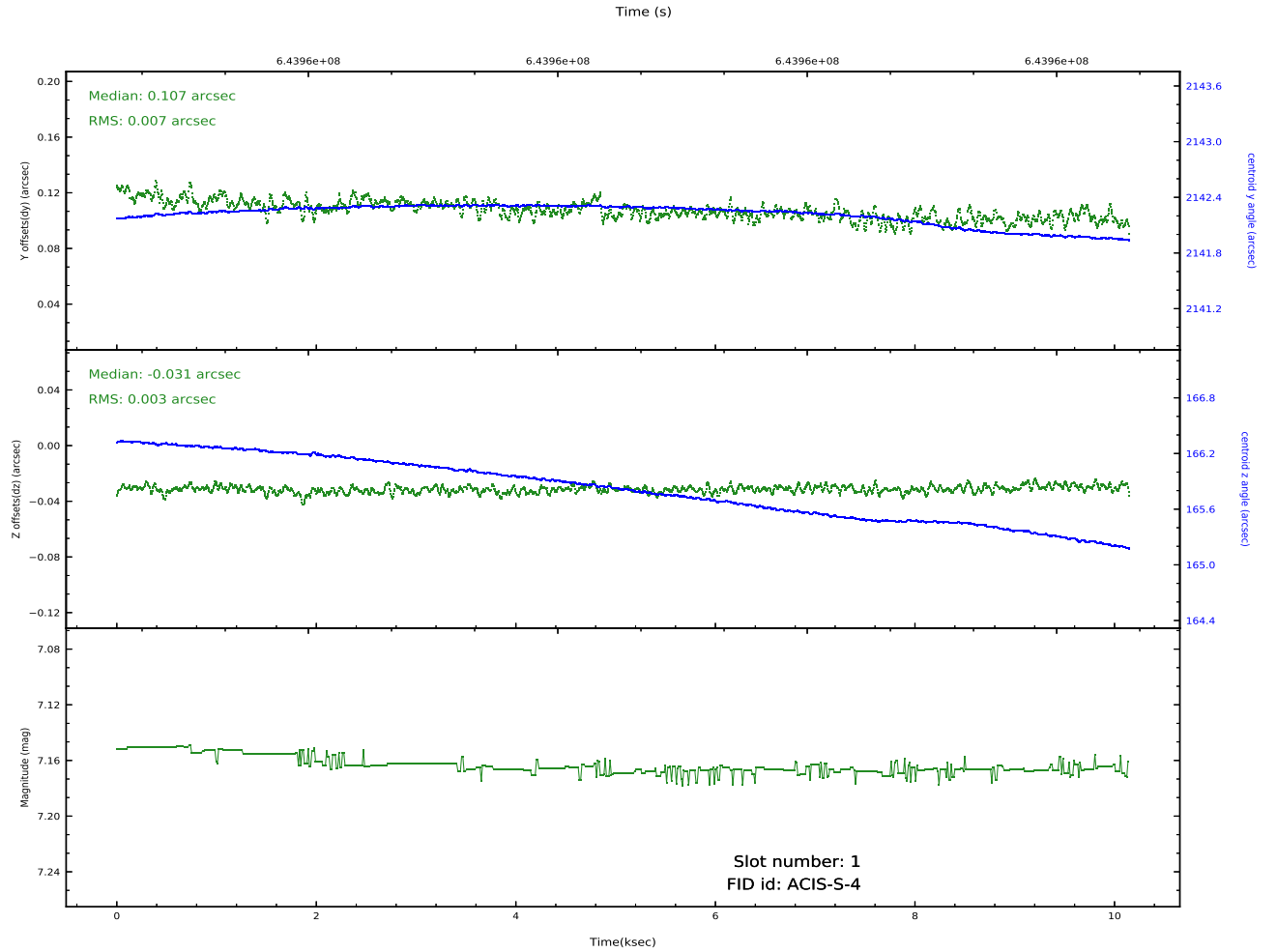
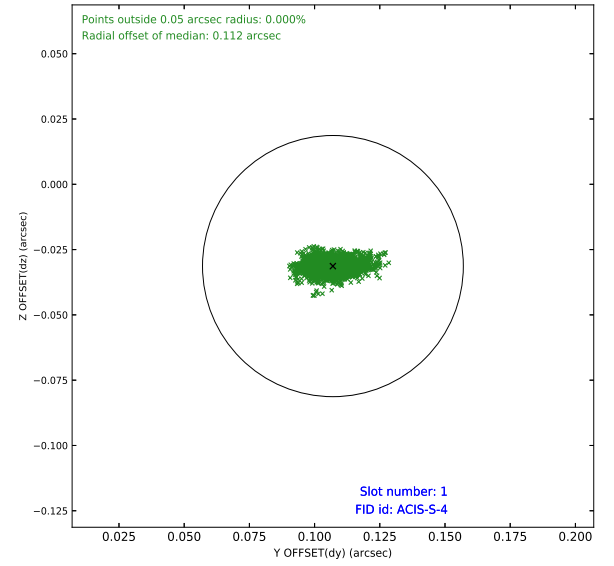
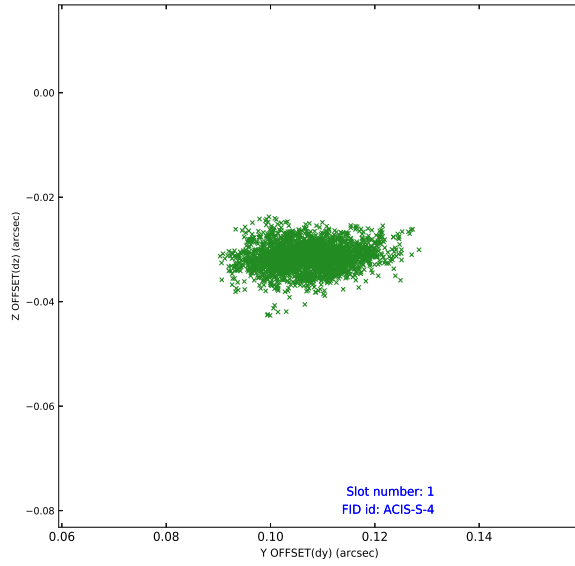


2.5 FID Slots

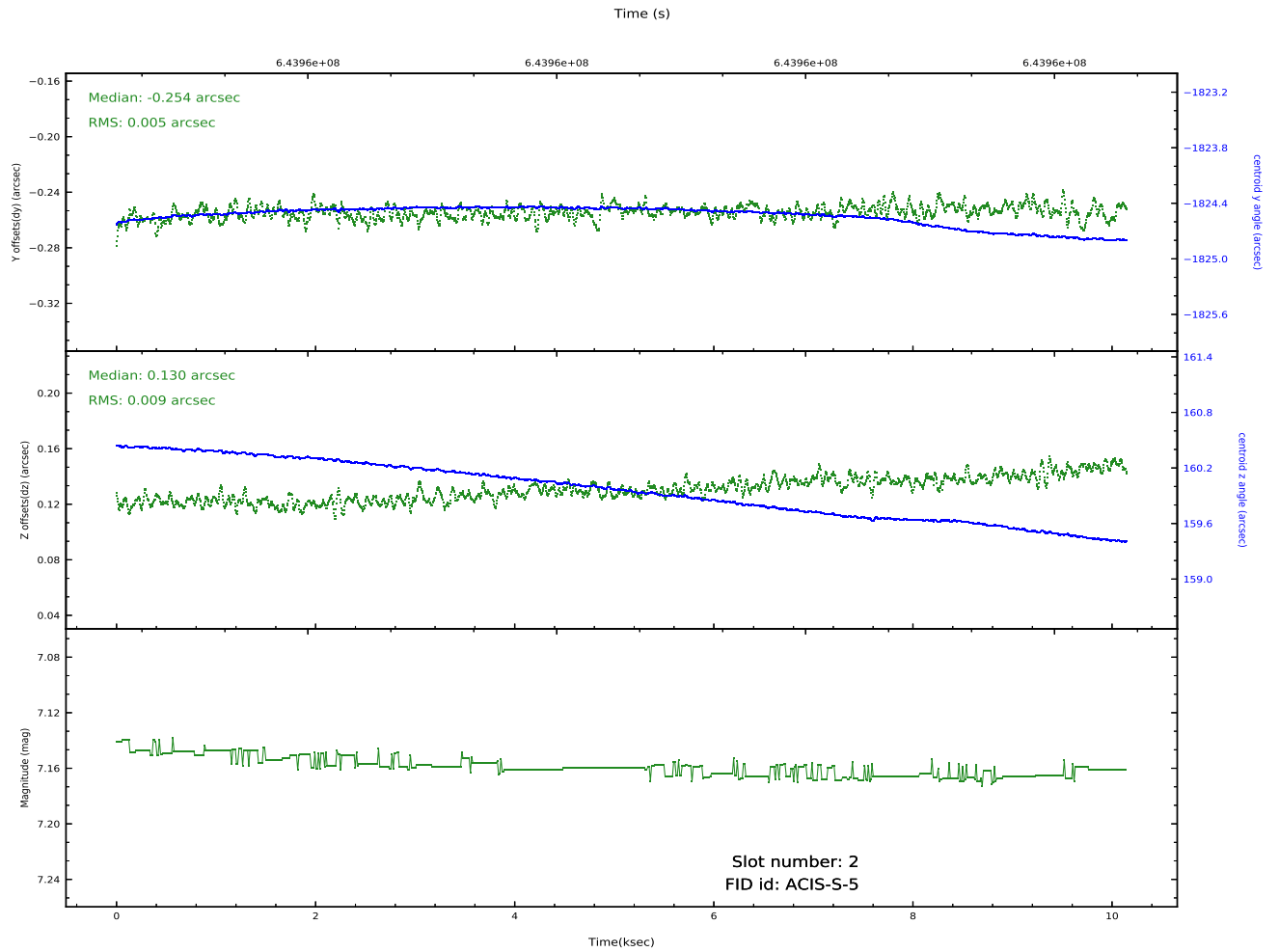
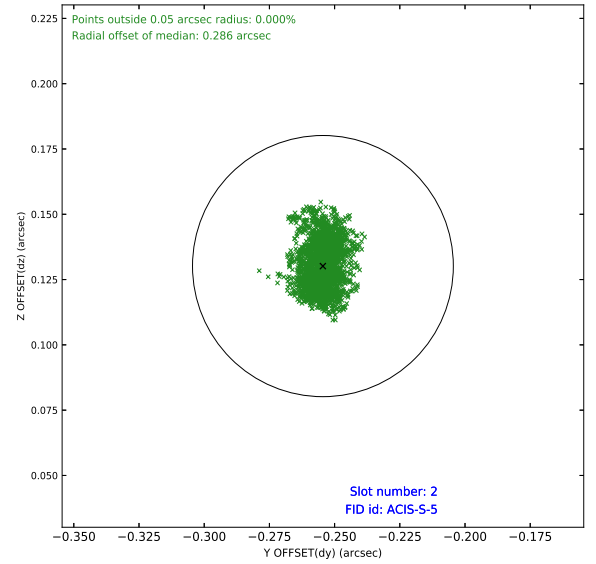
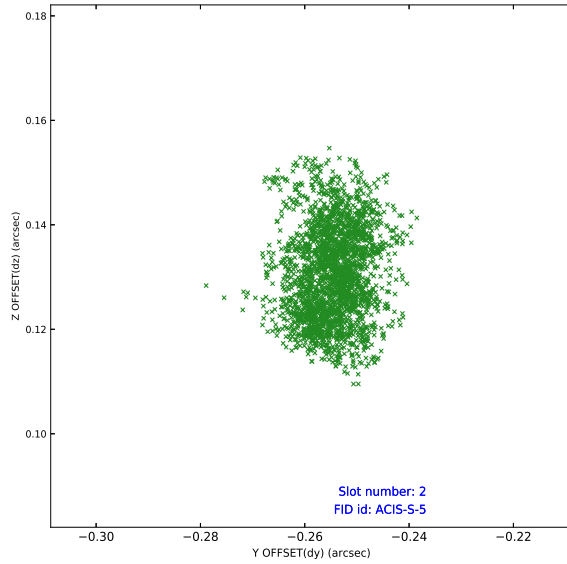
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.064503551483

A.2 Comments