

# V&V Reference Report

## L2 ASCDS Version : 10.9.2

Observation 19375 - L2 Version 2  
Chandra X-Ray Center

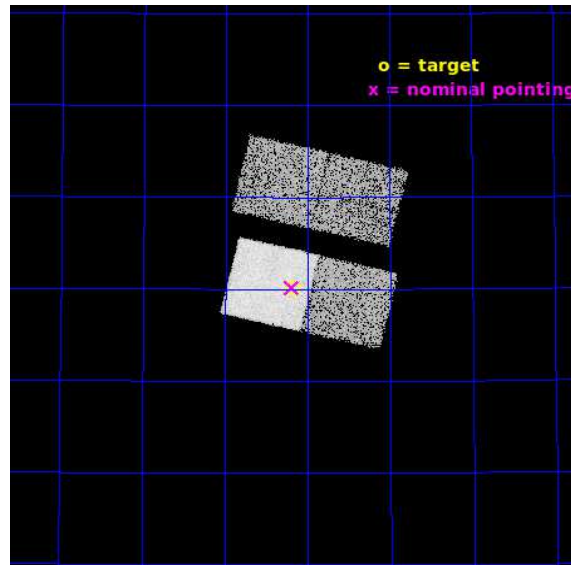
L2 Processing Date : Oct 25 2020

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# 1 Front

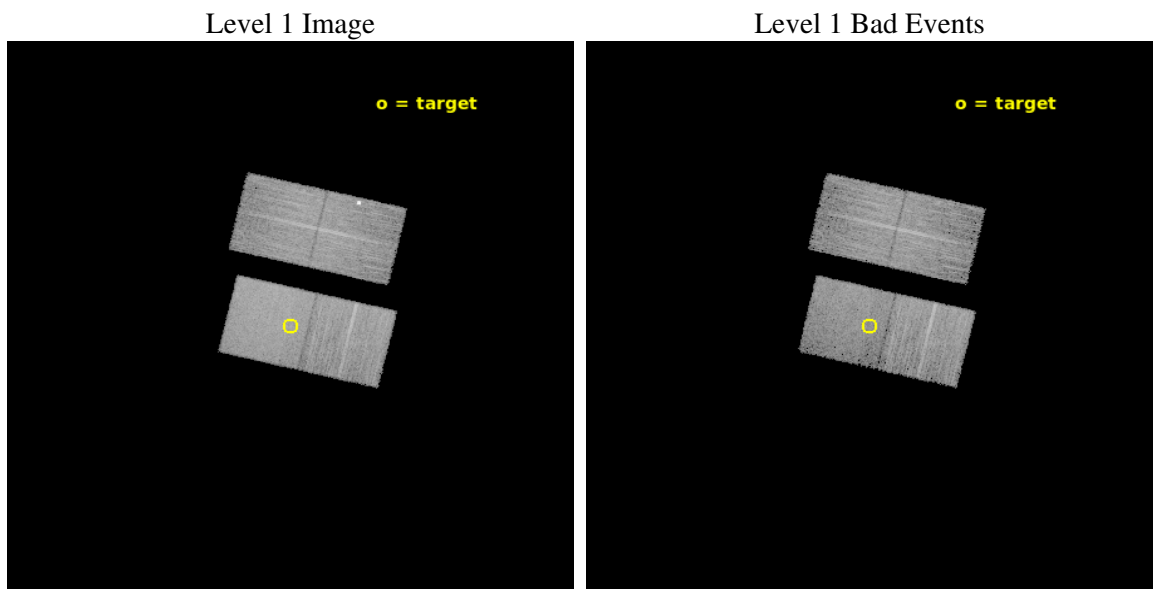
seq_num	601332	Sequence number
obs_id	19375	Observation id
title	A Statistically Complete High Resolution Chandra and Radio (eMERLIN) Survey of the Palomar Nearby Galaxies Sample	Proposal title
observer	Ian McHardy	Principal investigator
object	NGC 5485	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	211.797083	Observer's specified target RA [deg]
dec_targ	55.001528	Observer's specified target Dec [deg]
ra_nom	211.79820345379	Nominal RA [deg]
dec_nom	55.002767667301	Nominal Dec [deg]
roll_nom	193.32555403406	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10068.378992677	Sum of GTIs [s]
livetime	9936.8282089046	Livetime [s]
ontime2	10068.255872726	Sum of GTIs [s]
ontime3	10068.29691267	Sum of GTIs [s]
ontime6	10068.337952733	Sum of GTIs [s]
ontime7	10068.378992677	Sum of GTIs [s]
l2events	59719	Number of level 2 events



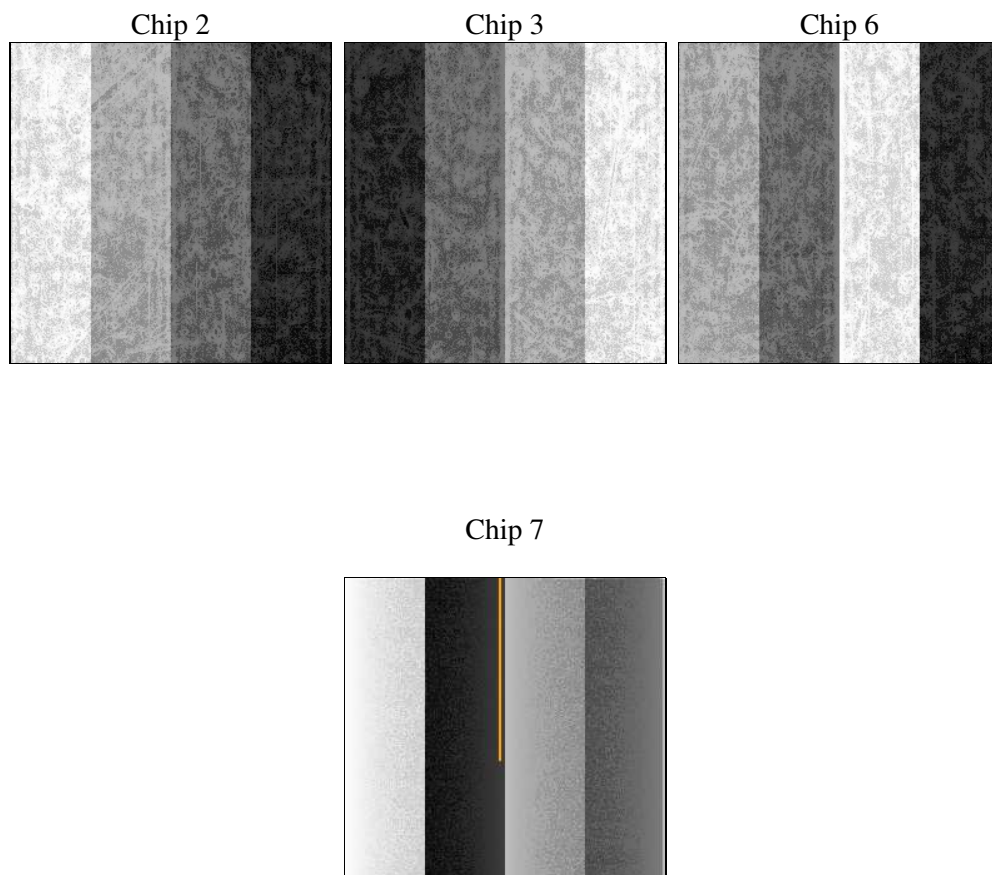
## 2 OBI

### 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	10068.378992677	Sum of GTIs [s]
caldsver	4.9.3	&#160	ontime2	10068.255872726	Sum of GTIs [s]
date	2020-10-25T21:29:55	Date and time of file creation	ontime3	10068.29691267	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	10068.337952733	Sum of GTIs [s]
			ontime7	10068.378992677	Sum of GTIs [s]
			l1events	324634	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	75925	74021	79657	95031
rejected events	65418	66458	71434	54140
rejected %	86%	89%	89%	56%

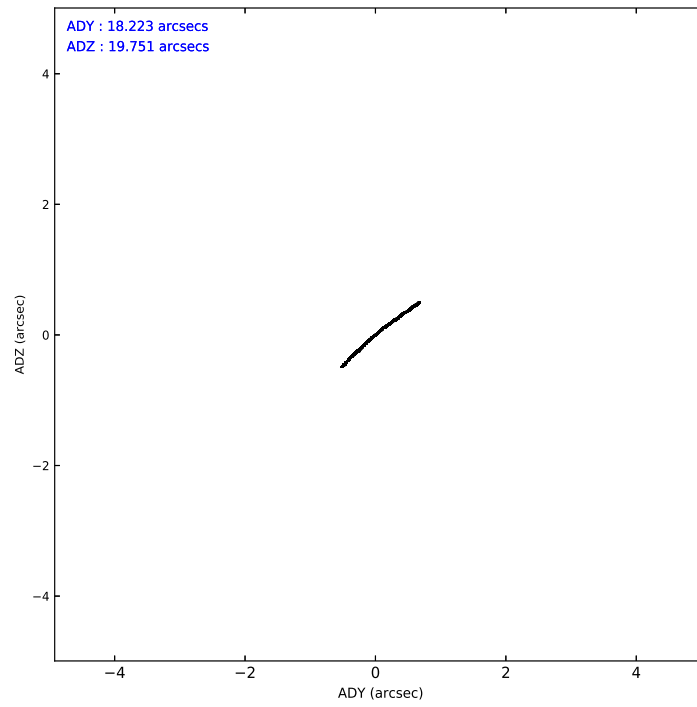
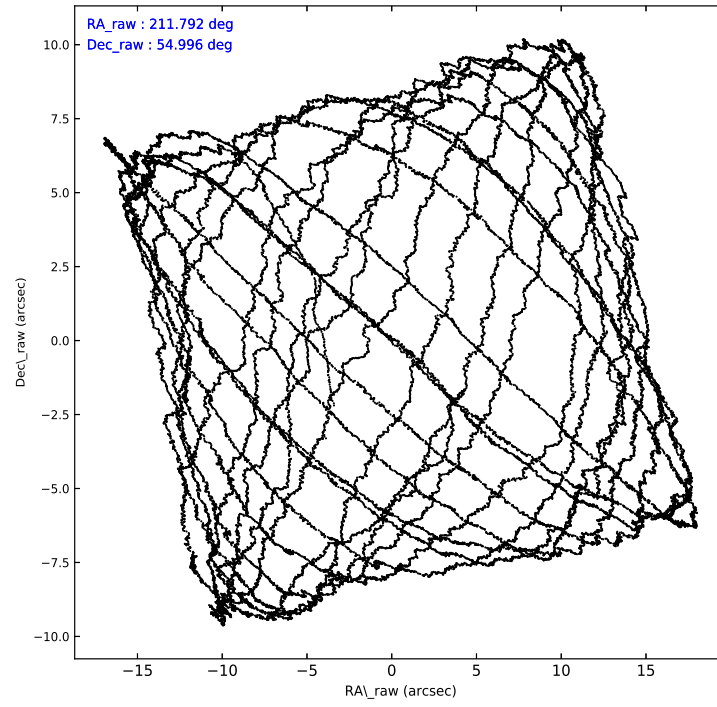
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	5648	2607	2385	3428
	7%	3%	2%	3%
grade 1 events	56	40	47	164
	0%	0%	0%	0%
grade 2 events	1731	1636	2192	8586
	2%	2%	2%	9%
grade 3 events	767	805	703	3200
	1%	1%	0%	3%
grade 4 events	752	800	692	3081
	0%	1%	0%	3%
grade 5 events	2693	3444	3105	9206
	3%	4%	3%	9%
grade 6 events	1616	1725	2253	22617
	2%	2%	2%	23%
grade 7 events	62662	62964	68280	44749
	82%	85%	85%	47%

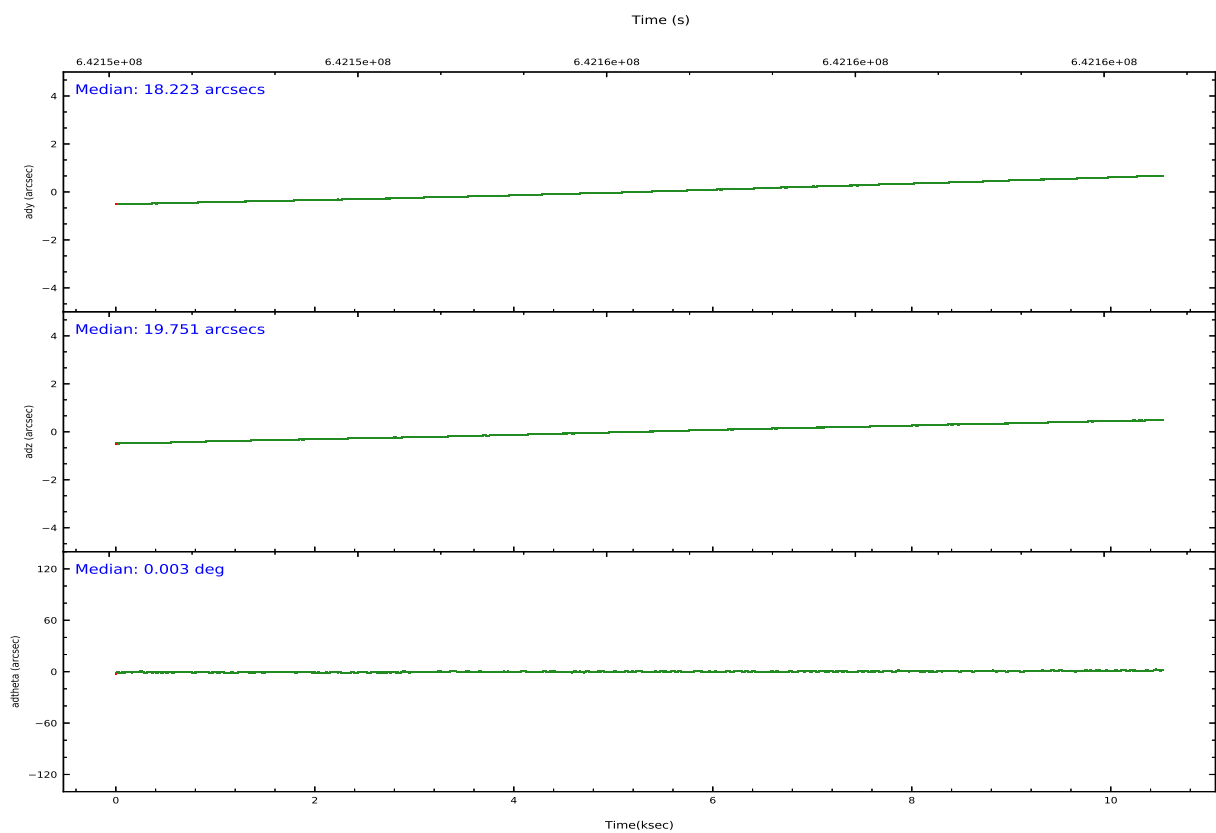
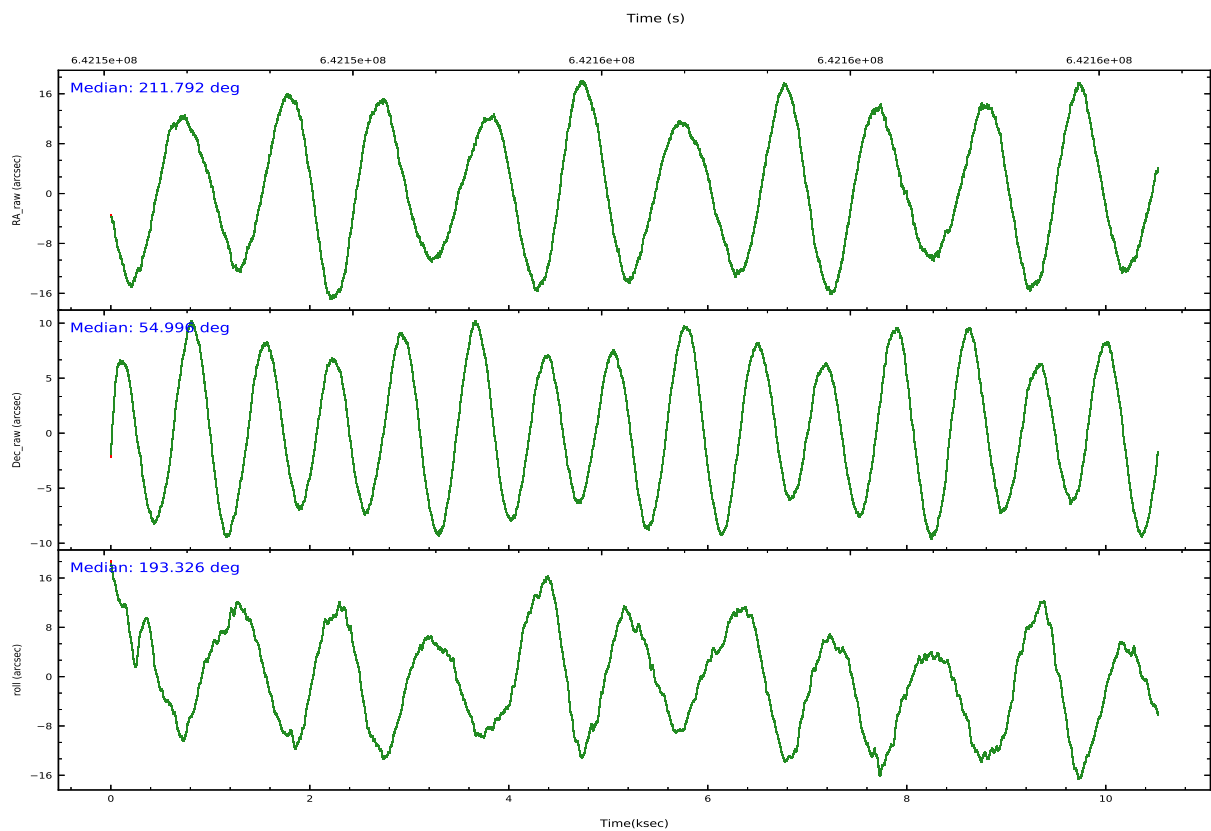


## 2.2 Compared Parameters

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	211.825937	211.79820345379	Subarray requested	NONE	NONE
[deg] Pointing Dec	55.015118	55.002767667301	Alternating exposures requested	N	N
[deg] Pointing Roll	193.145497	193.32555403406	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	642150593.184000	642149541.17532			
Observation start date	2018-05-08T07:08:44	2018-05-08T06:52:21			
[s] Observation end time (MET)	642160593.184000	642161063.71351			
Observation end date	2018-05-08T09:55:24	2018-05-08T10:04:23			
Read mode	TIMED	TIMED			

## 2.3 Aspect



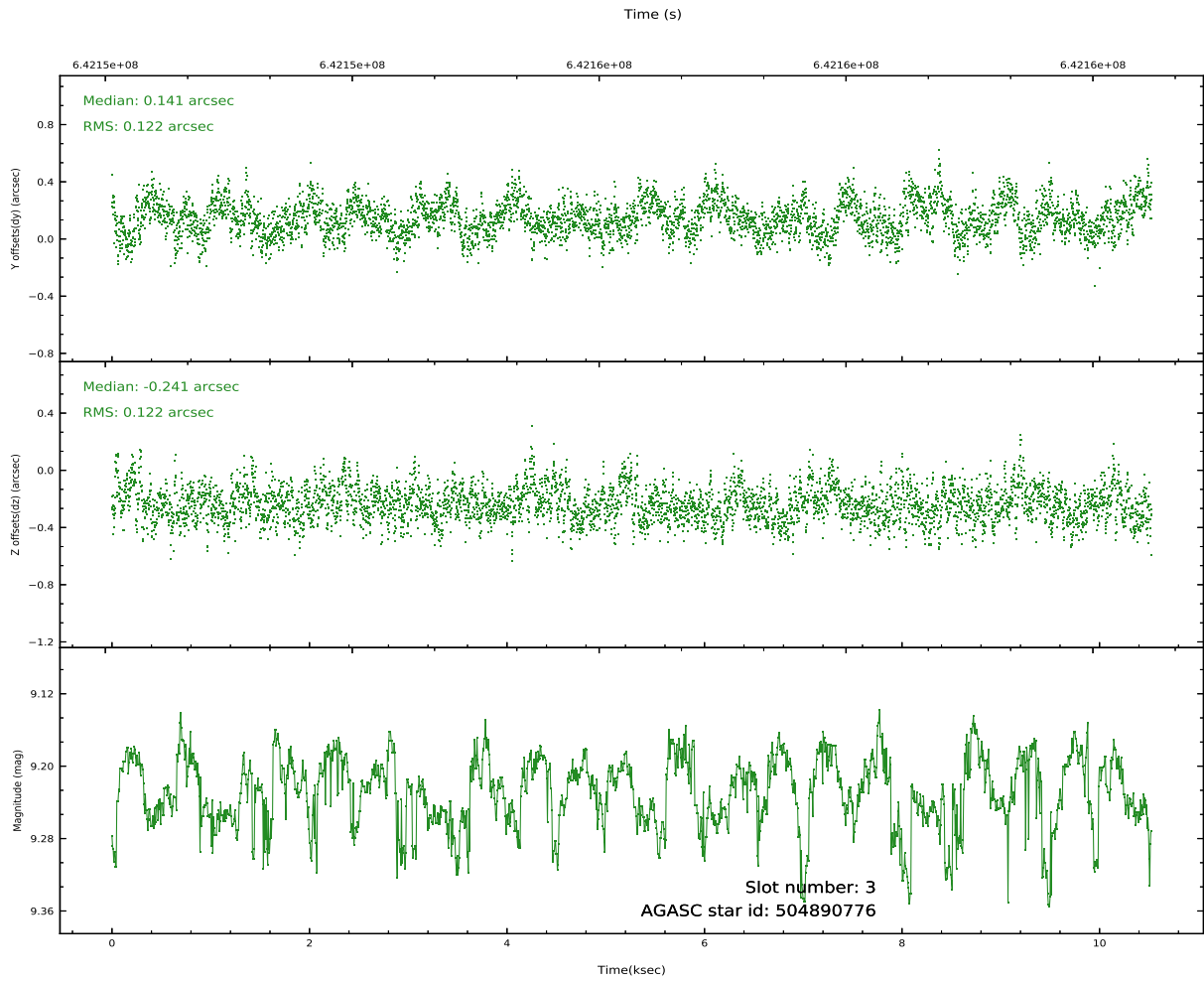
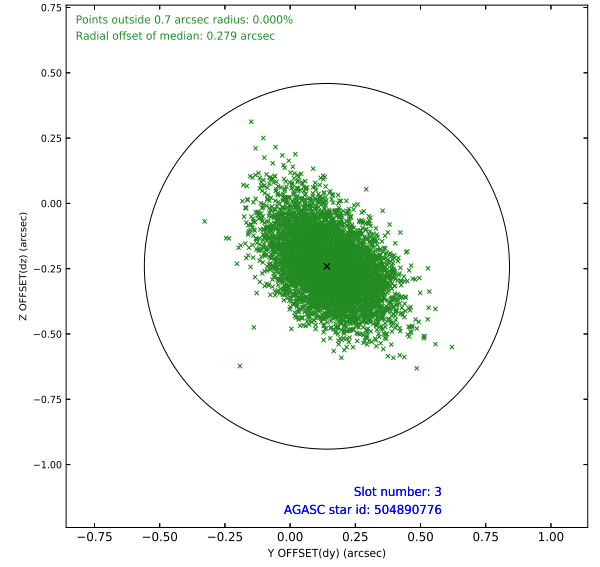
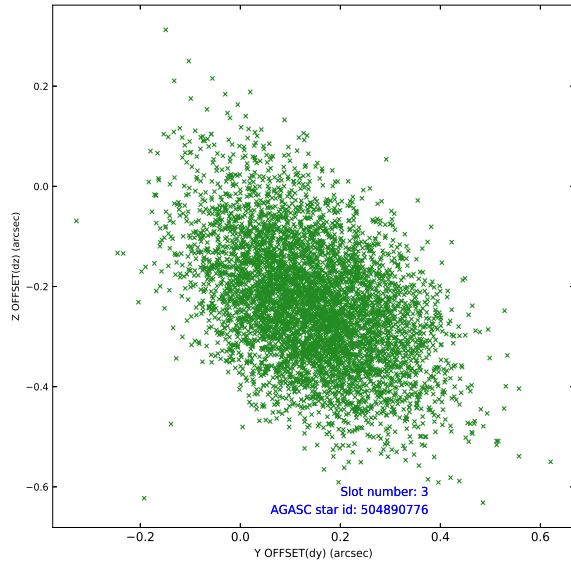


Slot Statistics

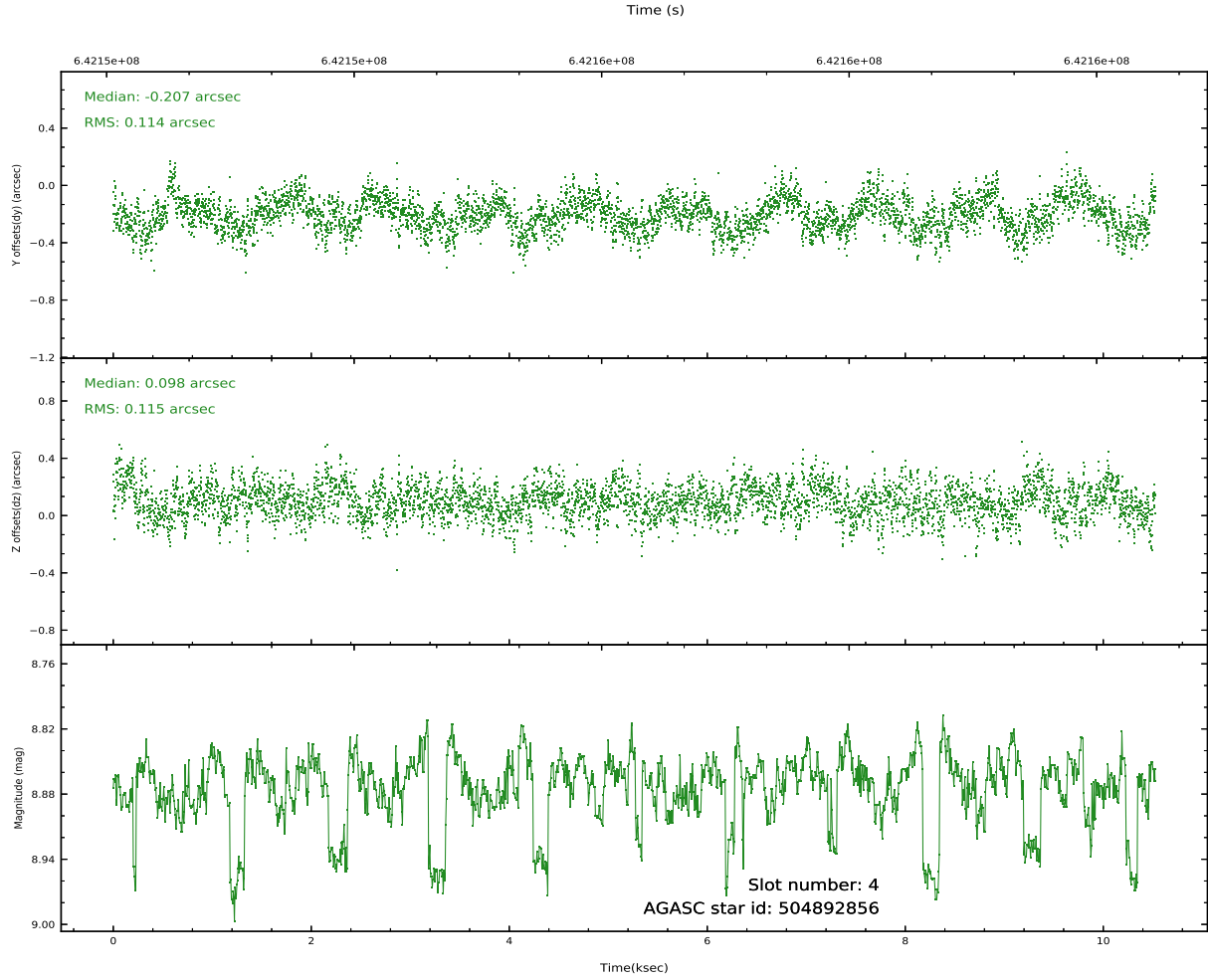
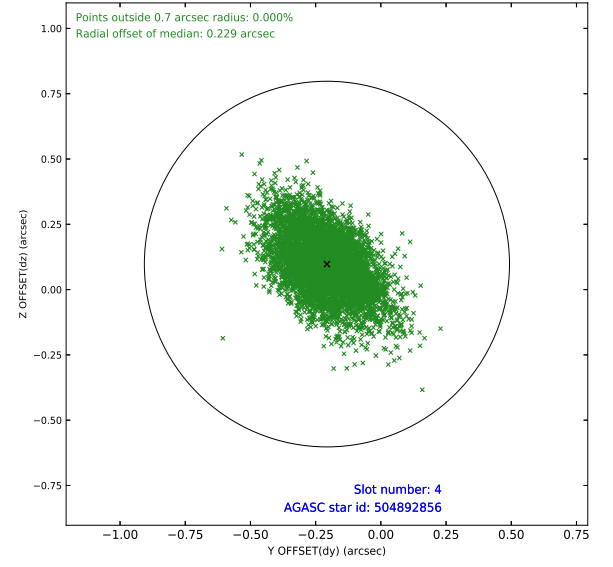
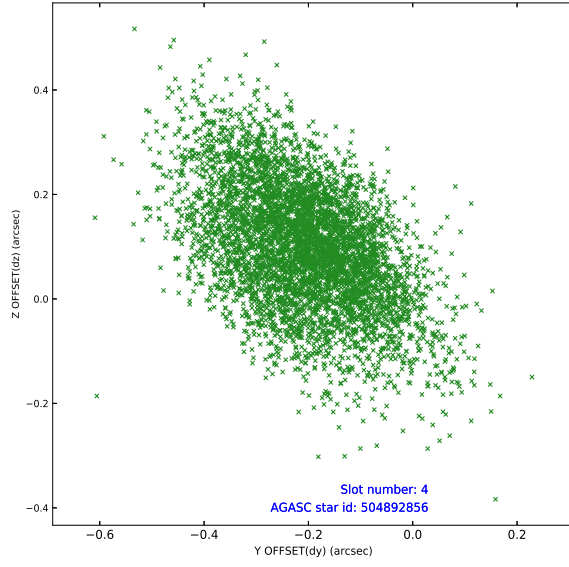
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.16	2567	1.000	0.112	-0.106	0.014	0.022	0.000000	0.000000	-771.41	-1741
1	FID		ACIS-S-4	7.25	2568	1.000	0.148	-0.025	0.010	0.020	0.000000	0.000000	2141.90	166
2	FID		ACIS-S-5	7.25	2568	1.000	-0.288	0.138	0.011	0.022	0.000000	0.000000	-1823.80	161
3	GUIDE	used	504890776	9.23	5128	1.000	0.141	-0.241	0.180	0.307	211.095934	54.816966	1635.36	342
4	GUIDE	used	504892856	8.87	5131	1.000	-0.207	0.098	0.169	0.292	212.547832	54.616632	-1140.48	1731
5	GUIDE	used	505289936	8.62	5129	1.000	-0.047	0.089	0.146	0.254	211.265099	55.244504	931.76	-1069
6	GUIDE	used	505292416	9.25	5127	1.000	0.191	0.110	0.188	0.331	210.920759	55.040479	1796.26	-526
7	GUIDE	used	505293224	7.98	5131	1.000	-0.091	-0.058	0.161	0.285	211.567203	55.430660	175.39	-1578

## 2.4 Star Slots

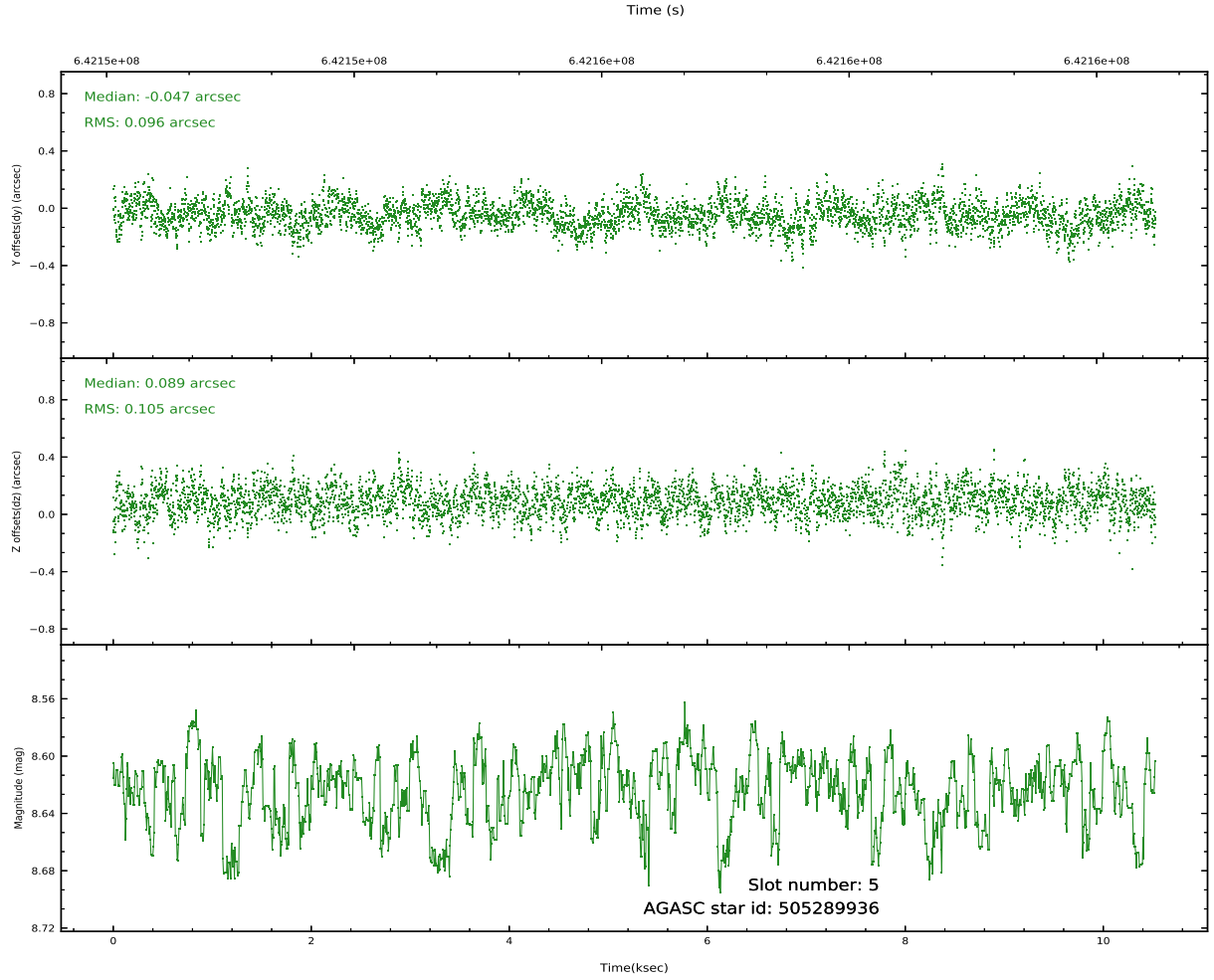
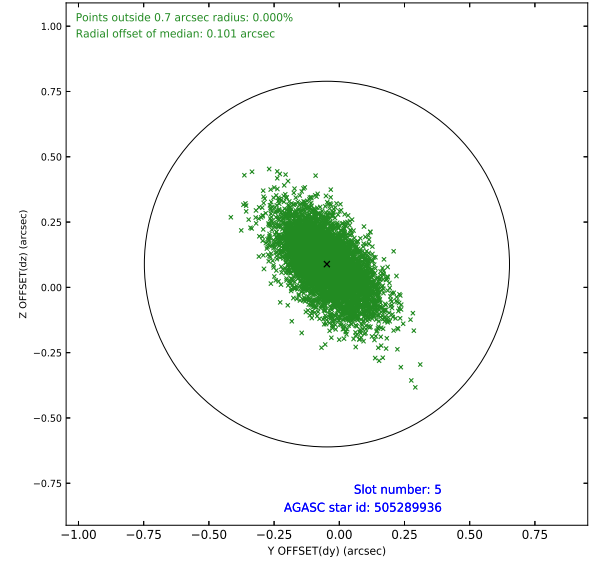
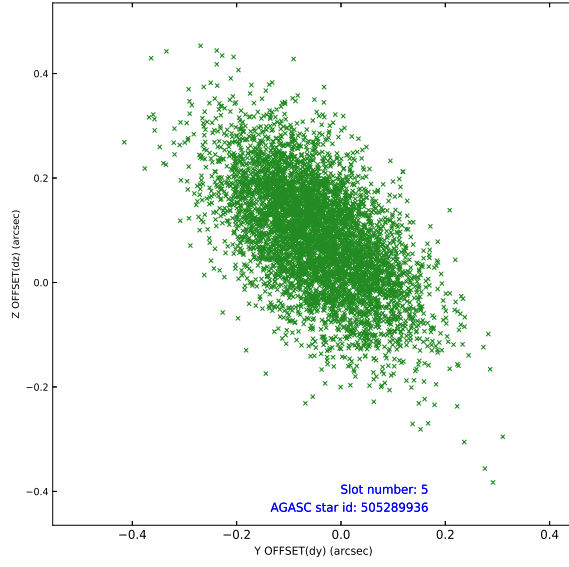
### 2.4.1 Slot 3



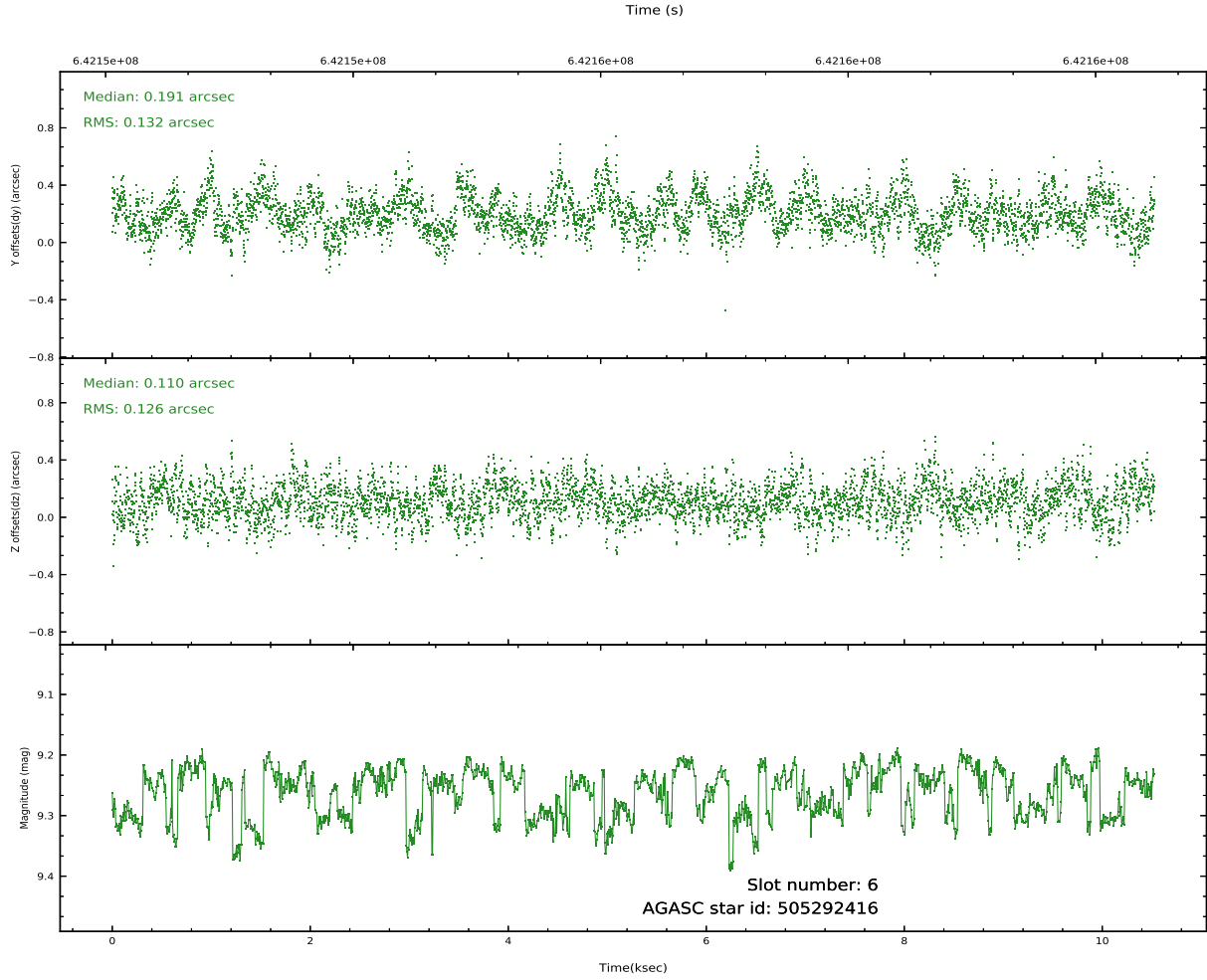
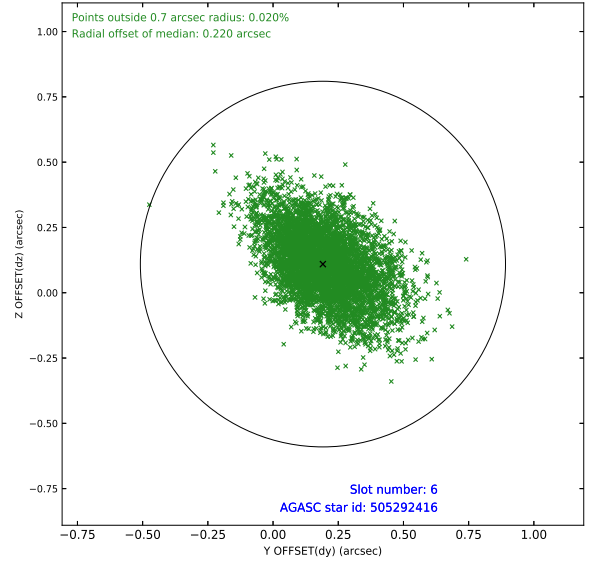
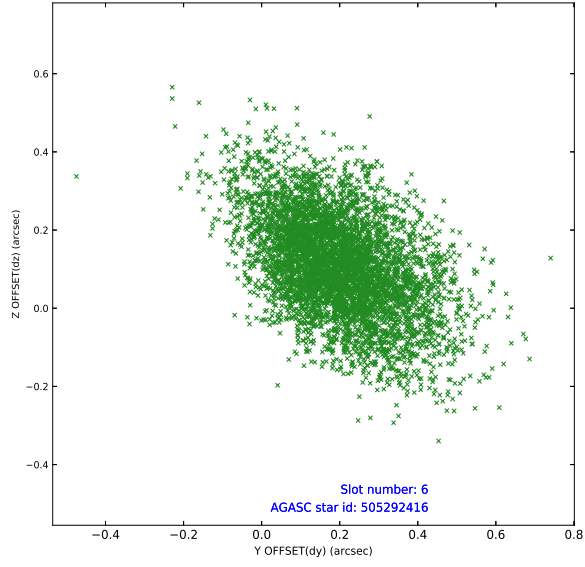
## 2.4.2 Slot 4



### 2.4.3 Slot 5

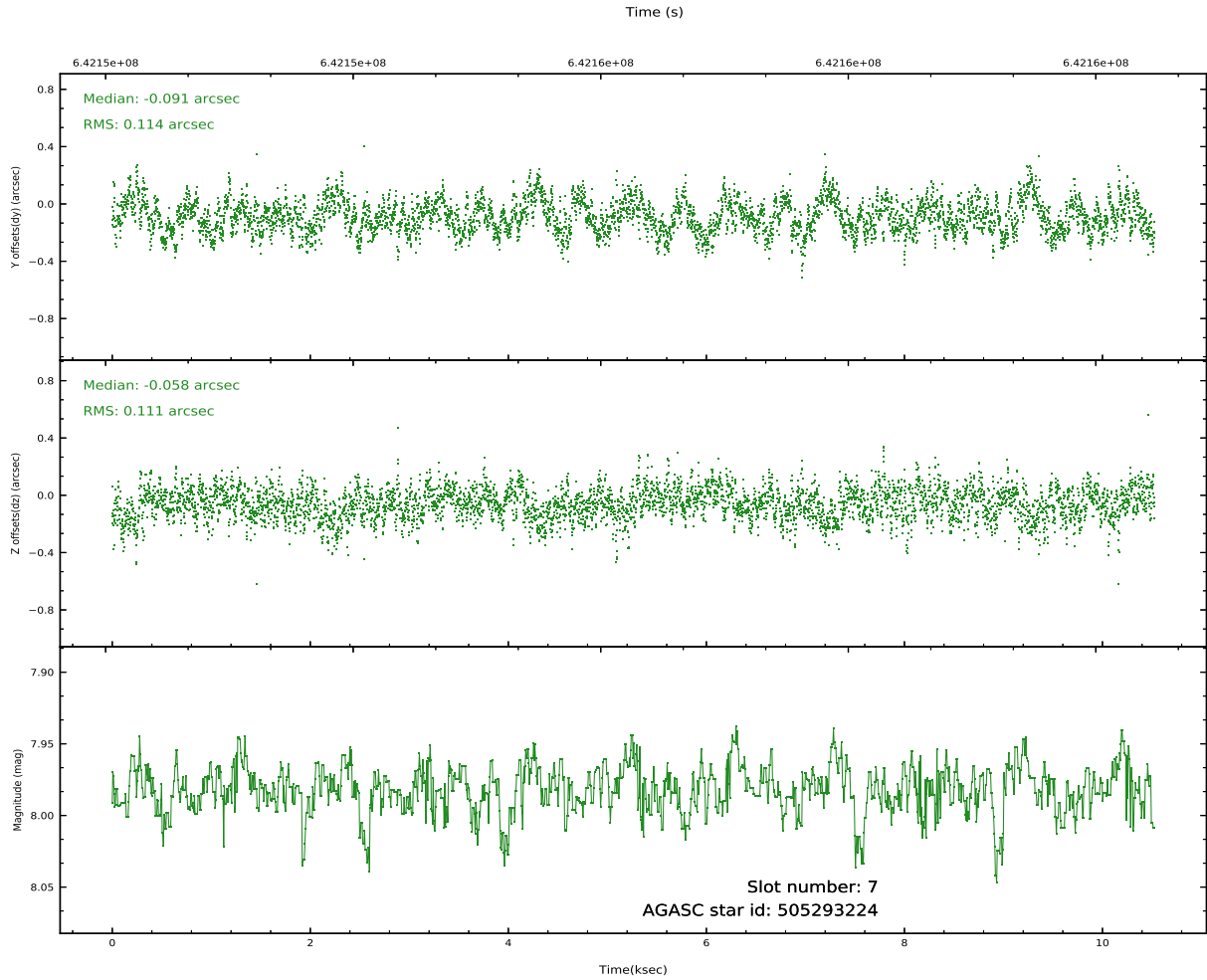
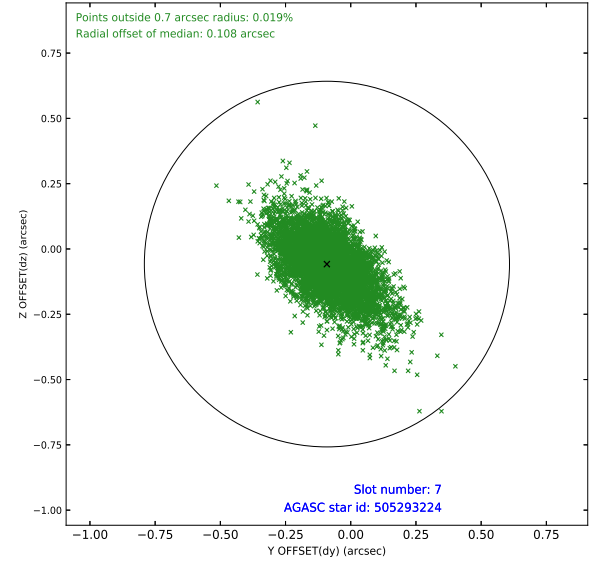
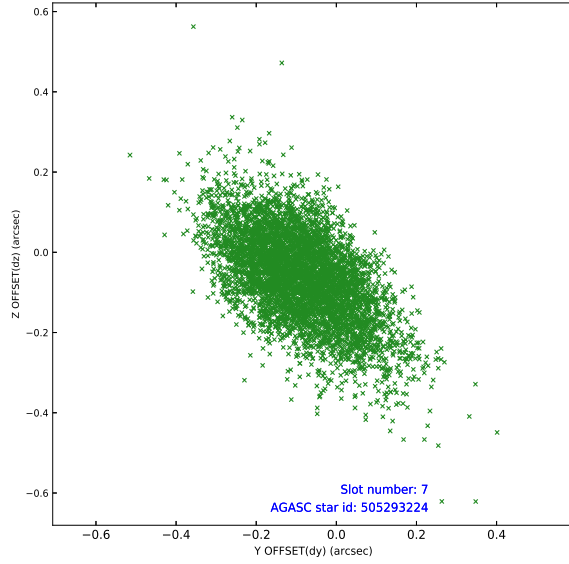


## 2.4.4 Slot 6



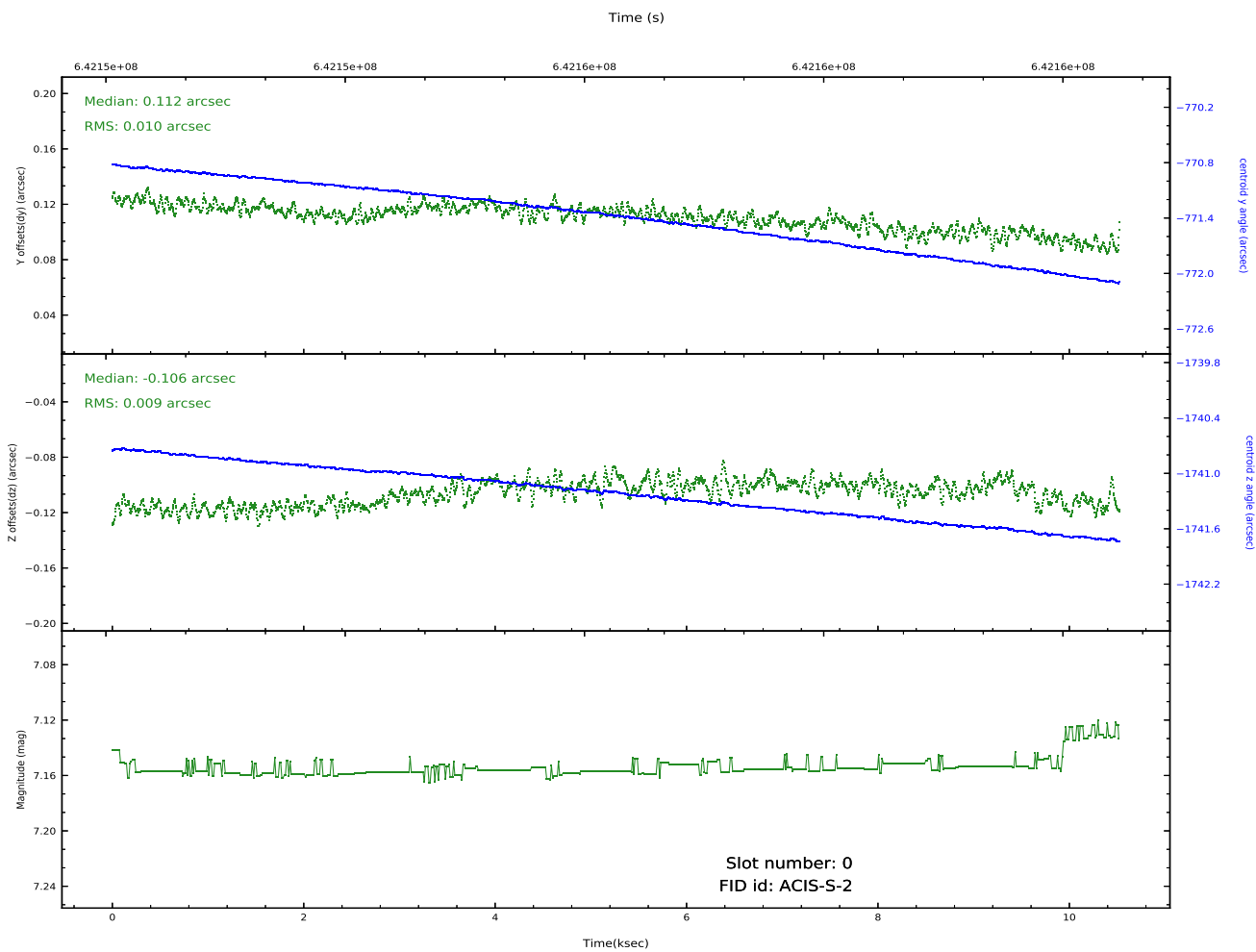
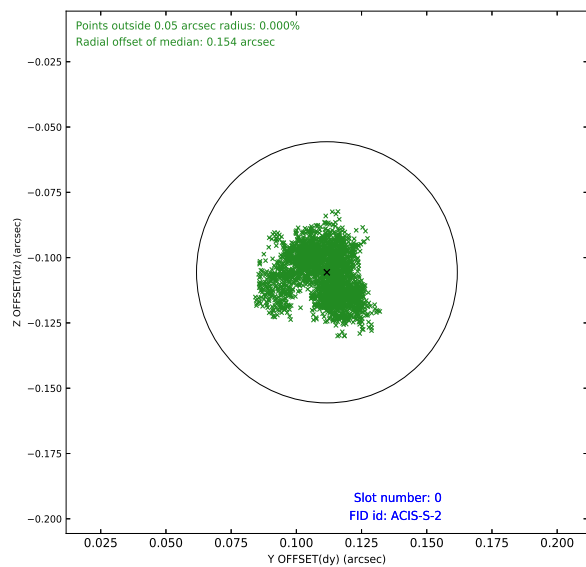
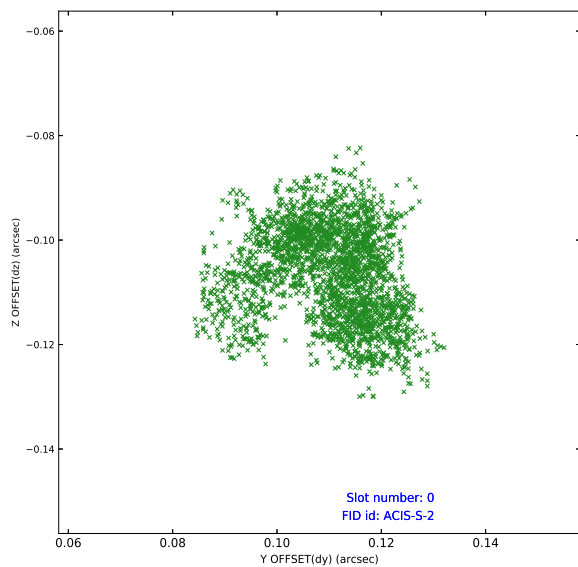


## 2.4.5 Slot 7

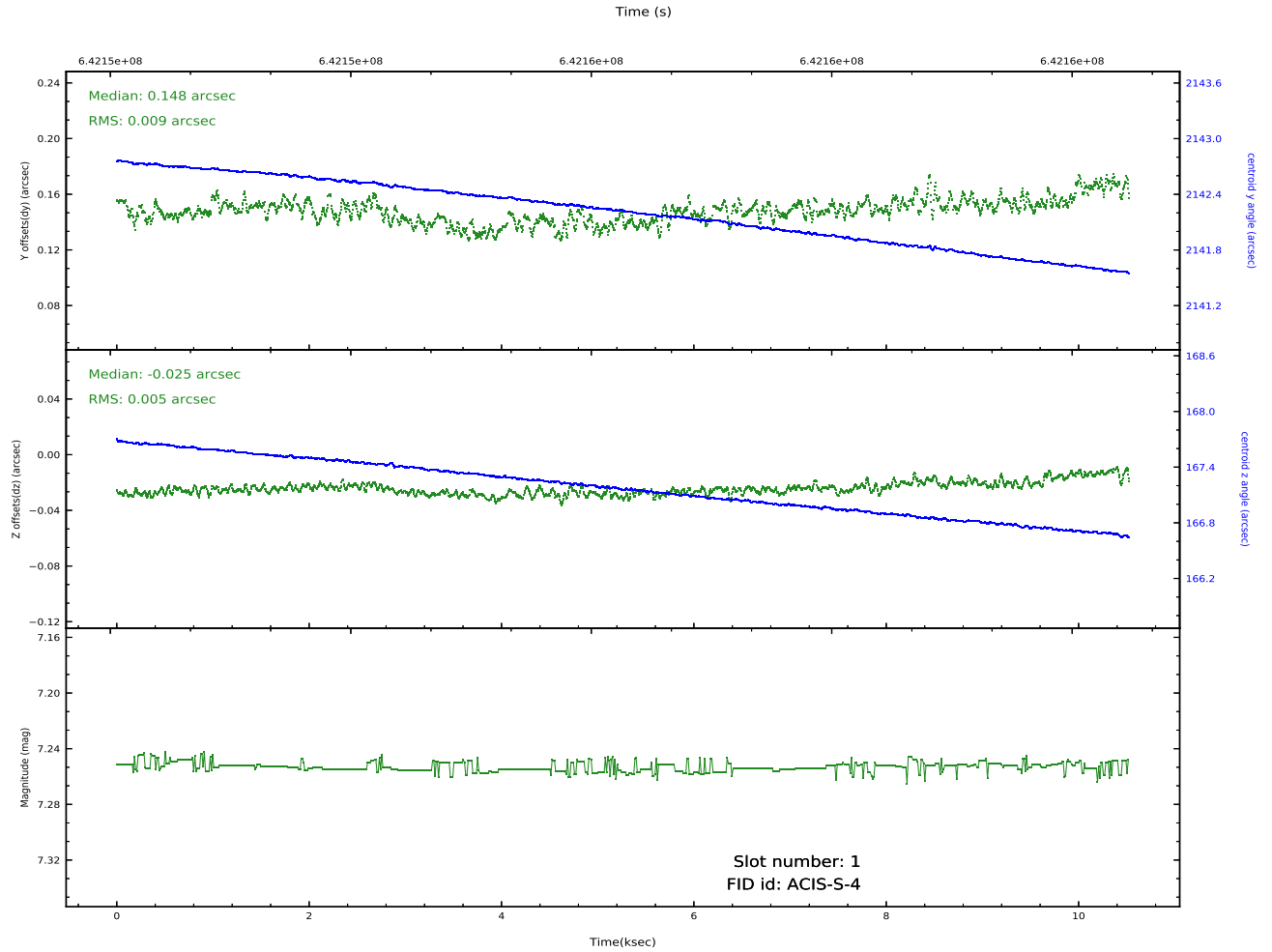
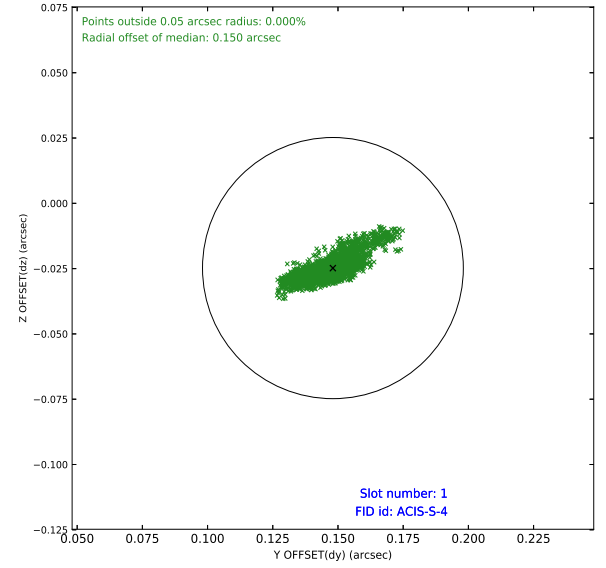
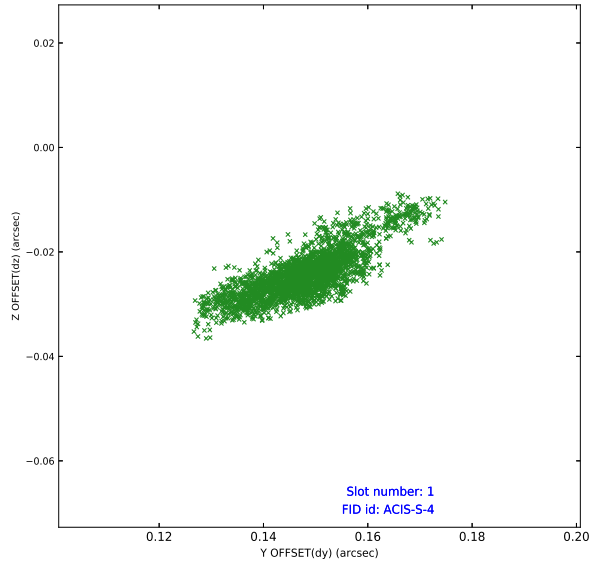


## 2.5 FID Slots

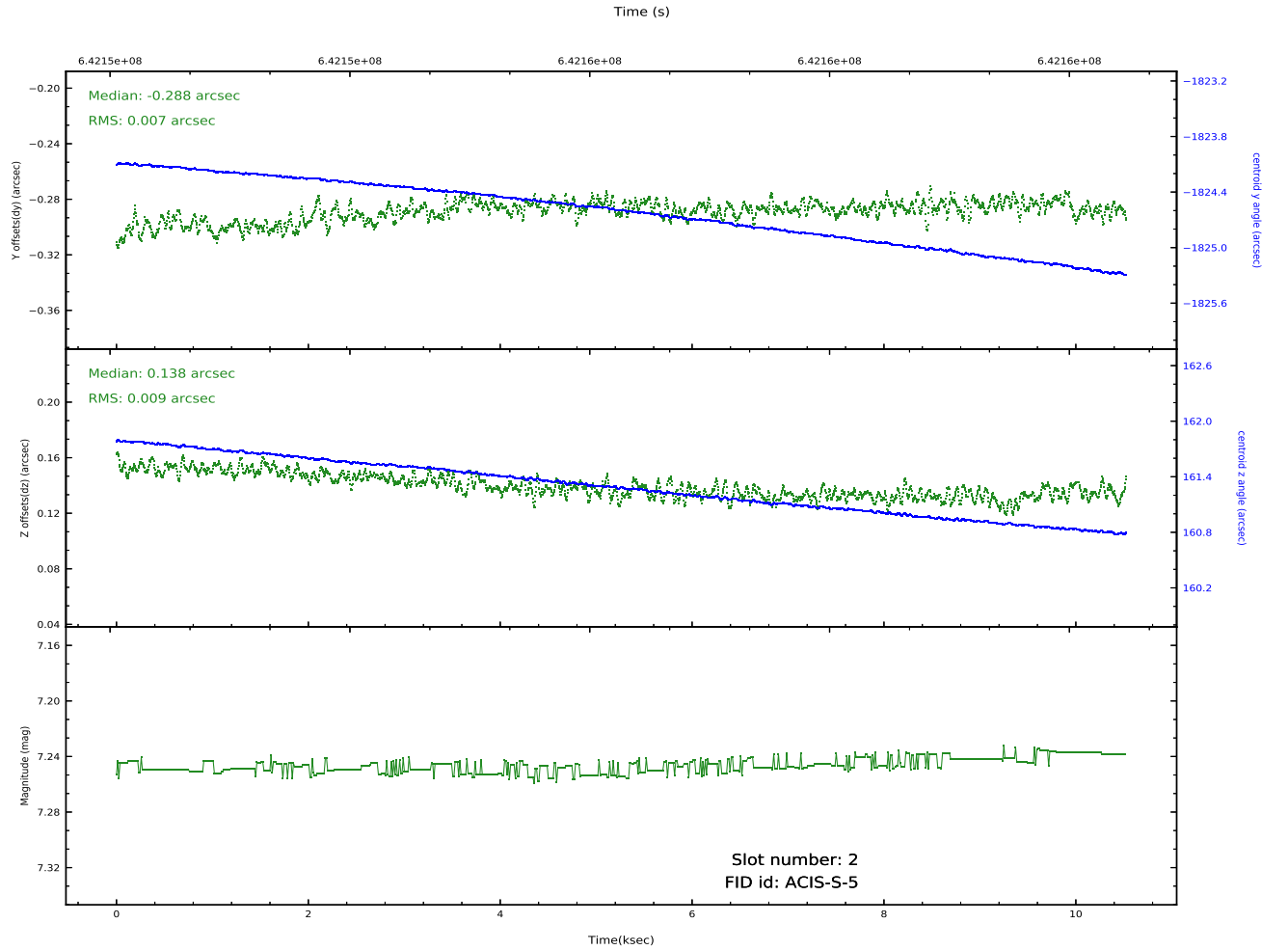
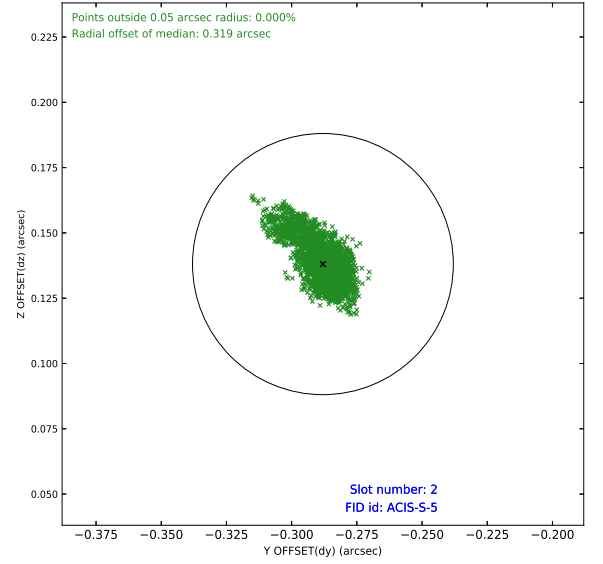
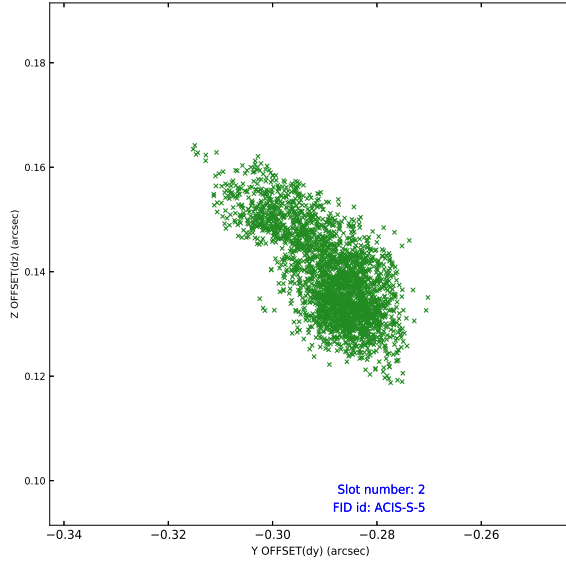
### 2.5.1 Slot 0



## 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	10.06837899363

### A.2 Comments