

# V&V Reference Report

## L2 ASCDS Version : 10.9.2

Observation 19380 - L2 Version 2  
Chandra X-Ray Center

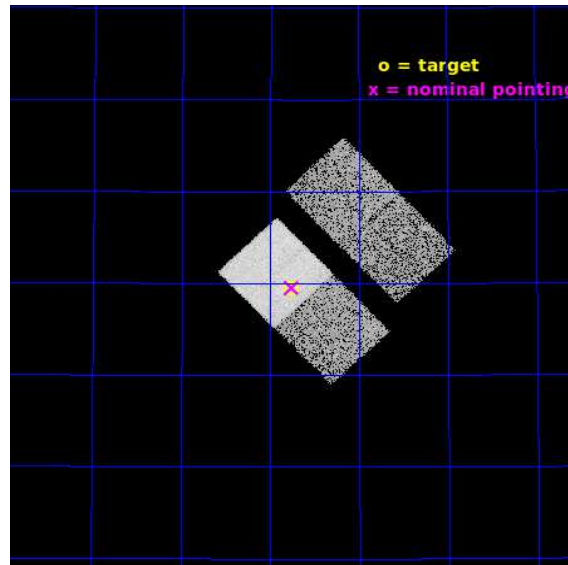
L2 Processing Date : Oct 25 2020

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# 1 Front

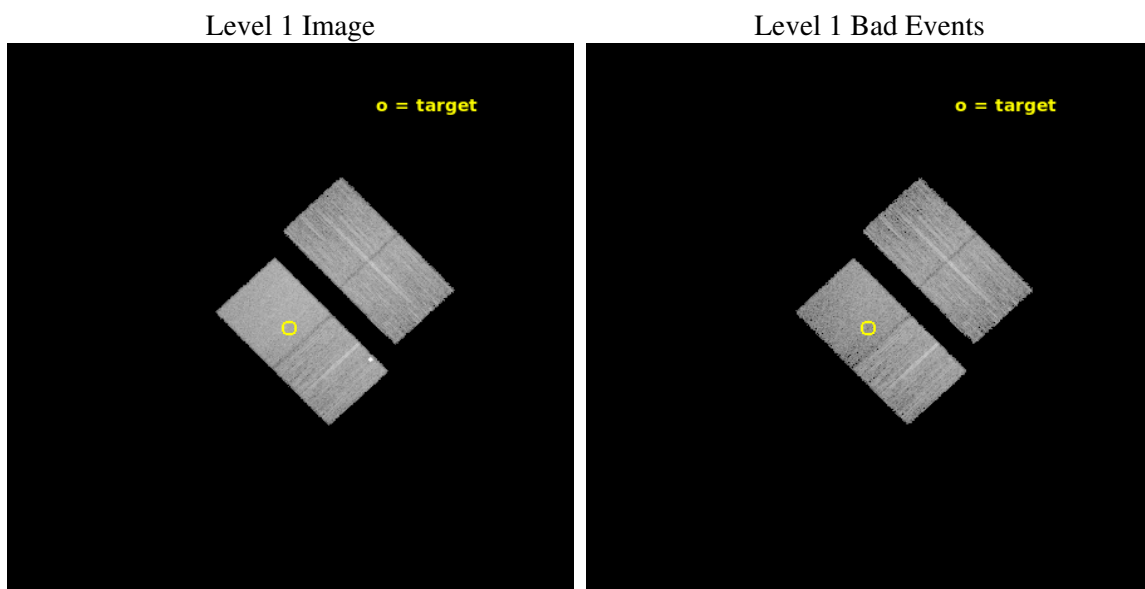
seq_num	601337	Sequence number
obs_id	19380	Observation id
title	A Statistically Complete High Resolution Chandra and Radio (eMERLIN) Survey of the Palomar Nearby Galaxies Sample	Proposal title
observer	Ian McHardy	Principal investigator
object	NGC 3917	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	177.689583	Observer's specified target RA [deg]
dec_targ	51.824222	Observer's specified target Dec [deg]
ra_nom	177.68926199929	Nominal RA [deg]
dec_nom	51.825619003685	Nominal Dec [deg]
roll_nom	226.16627342099	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9909.3685137033	Sum of GTIs [s]
livetime	9779.8953189008	Livetime [s]
ontime2	9909.2453937531	Sum of GTIs [s]
ontime3	9909.2864336967	Sum of GTIs [s]
ontime6	9909.3274737597	Sum of GTIs [s]
ontime7	9909.3685137033	Sum of GTIs [s]
l2events	59544	Number of level 2 events



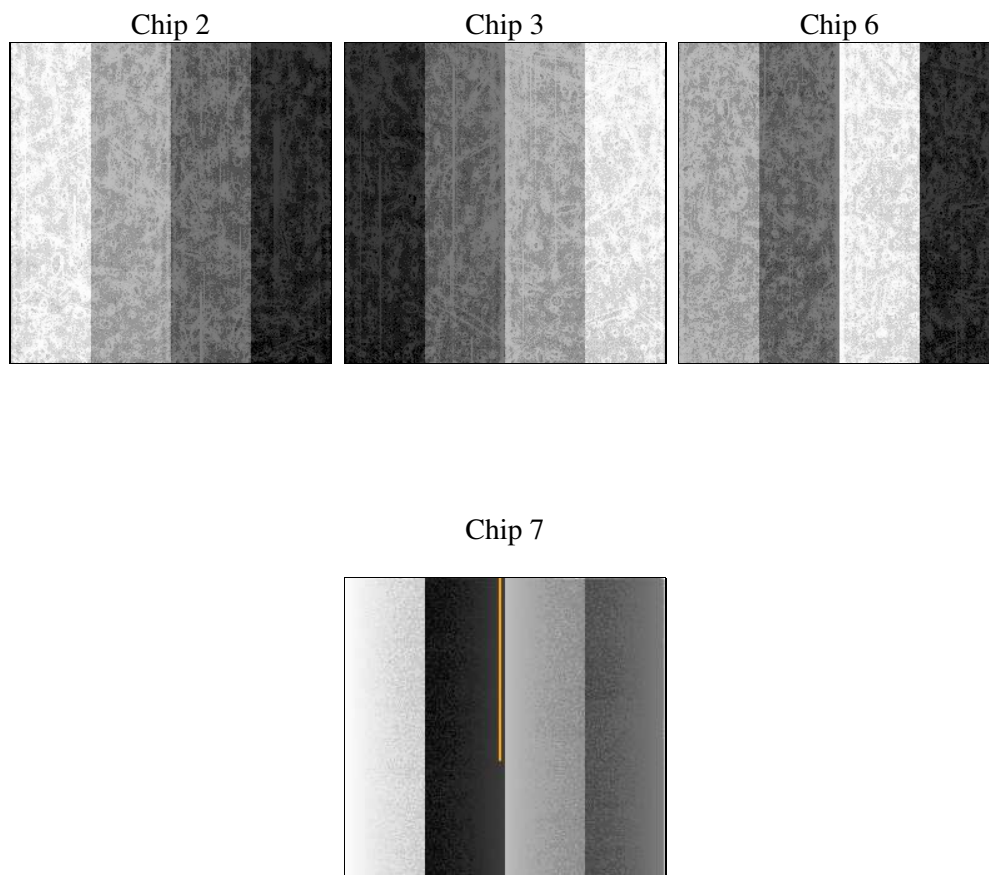
## 2 OBI

### 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	9909.3685137033	Sum of GTIs [s]
caldsver	4.9.3	&#160	ontime2	9909.2453937531	Sum of GTIs [s]
date	2020-10-25T21:40:10	Date and time of file creation	ontime3	9909.2864336967	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	9909.3274737597	Sum of GTIs [s]
			ontime7	9909.3685137033	Sum of GTIs [s]
			l1events	311178	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	72120	68915	77347	92796
rejected events	64625	61253	66156	52063
rejected %	89%	88%	85%	56%

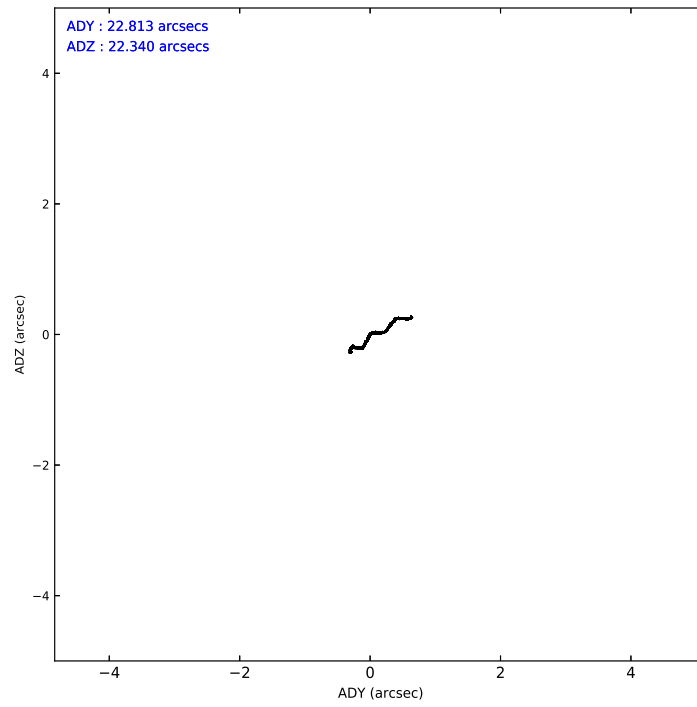
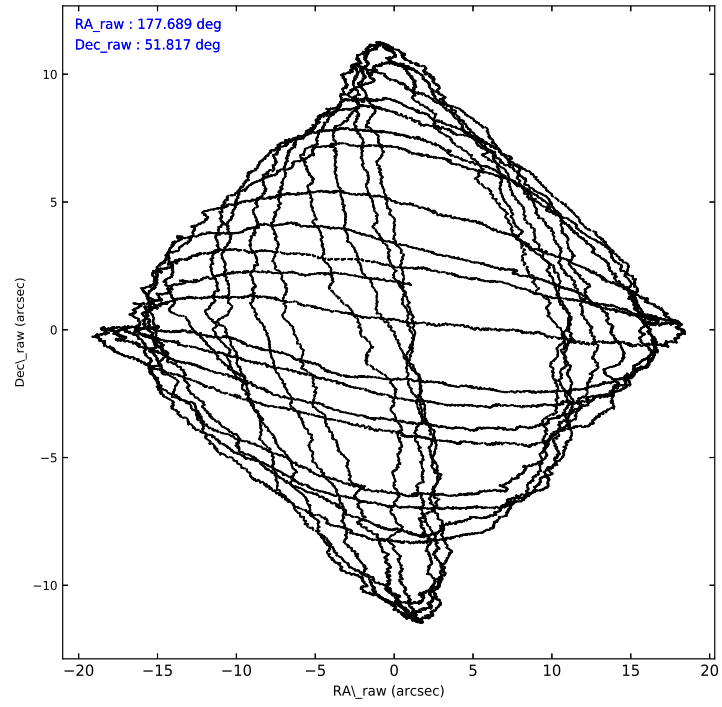
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2752	2925	5697	3487
	3%	4%	7%	3%
grade 1 events	39	33	60	133
	0%	0%	0%	0%
grade 2 events	1717	1632	1928	8567
	2%	2%	2%	9%
grade 3 events	721	761	786	3284
	0%	1%	1%	3%
grade 4 events	776	762	810	3225
	1%	1%	1%	3%
grade 5 events	2689	3319	3391	9204
	3%	4%	4%	9%
grade 6 events	1530	1583	1975	22179
	2%	2%	2%	23%
grade 7 events	61896	57900	62700	42717
	85%	84%	81%	46%

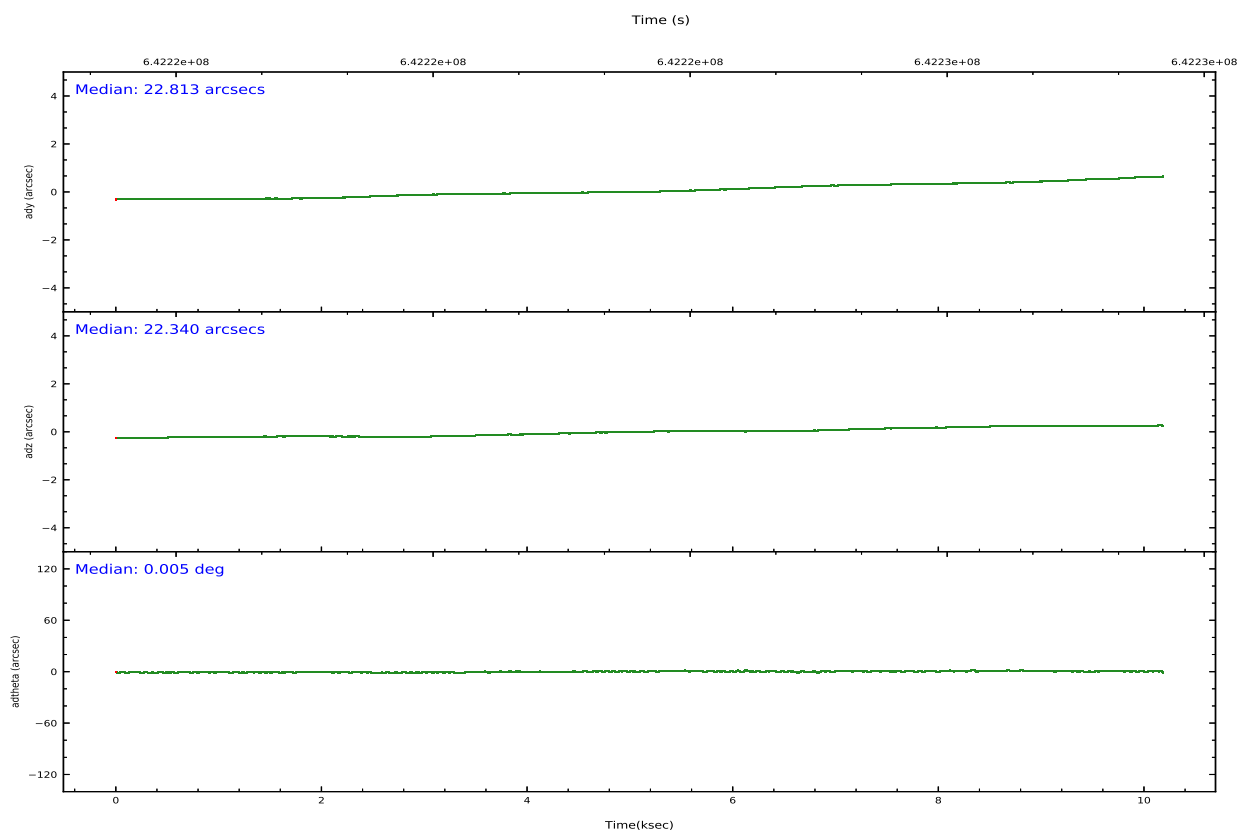
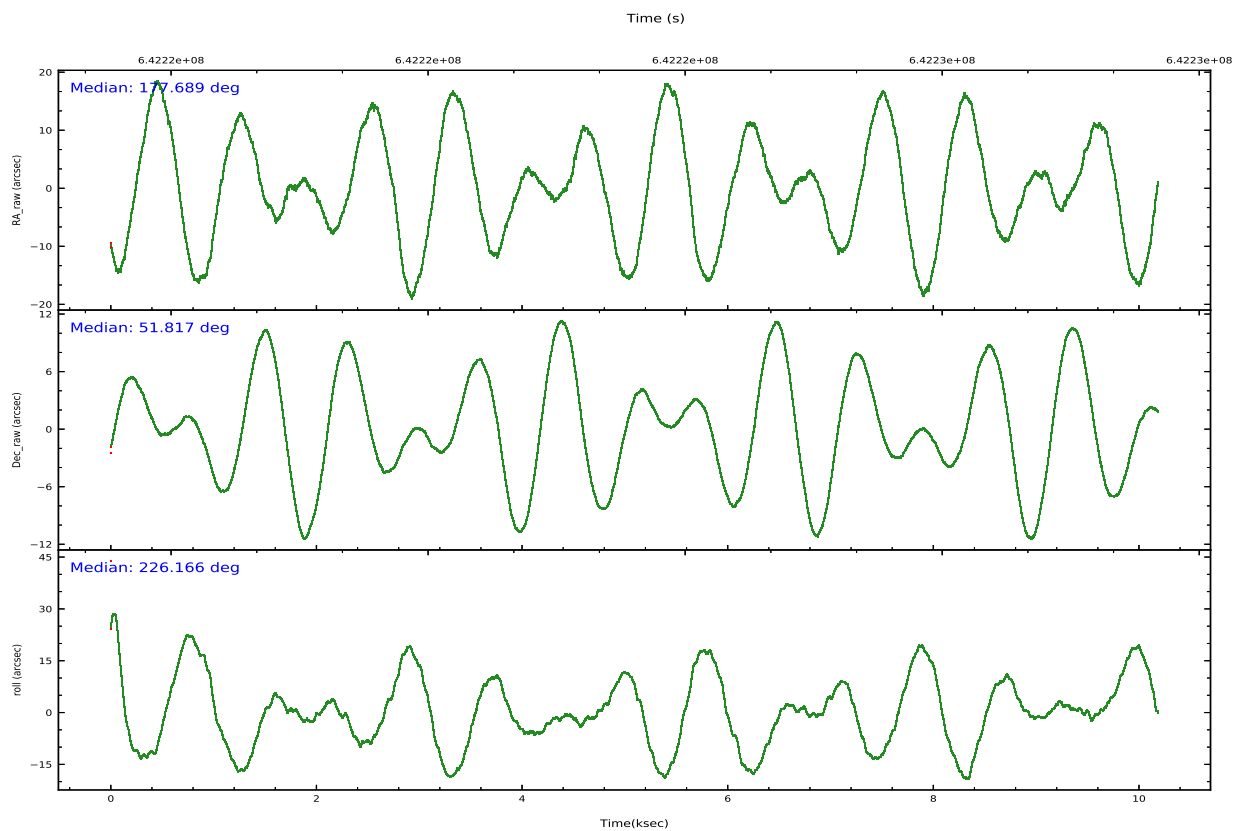


## 2.2 Compared Parameters

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	177.699362	177.68926199929	Subarray requested	NONE	NONE
[deg] Pointing Dec	51.843128	51.825619003685	Alternating exposures requested	N	N
[deg] Pointing Roll	226.017502	226.16627342099	[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)	642219601.184000	642218880.37942			
Observation start date	2018-05-09T02:18:52	2018-05-09T02:08:00			
[s] Observation end time (MET)	642229601.184000	642230231.23009			
Observation end date	2018-05-09T05:05:32	2018-05-09T05:17:11			
Read mode	TIMED	TIMED			

## 2.3 Aspect



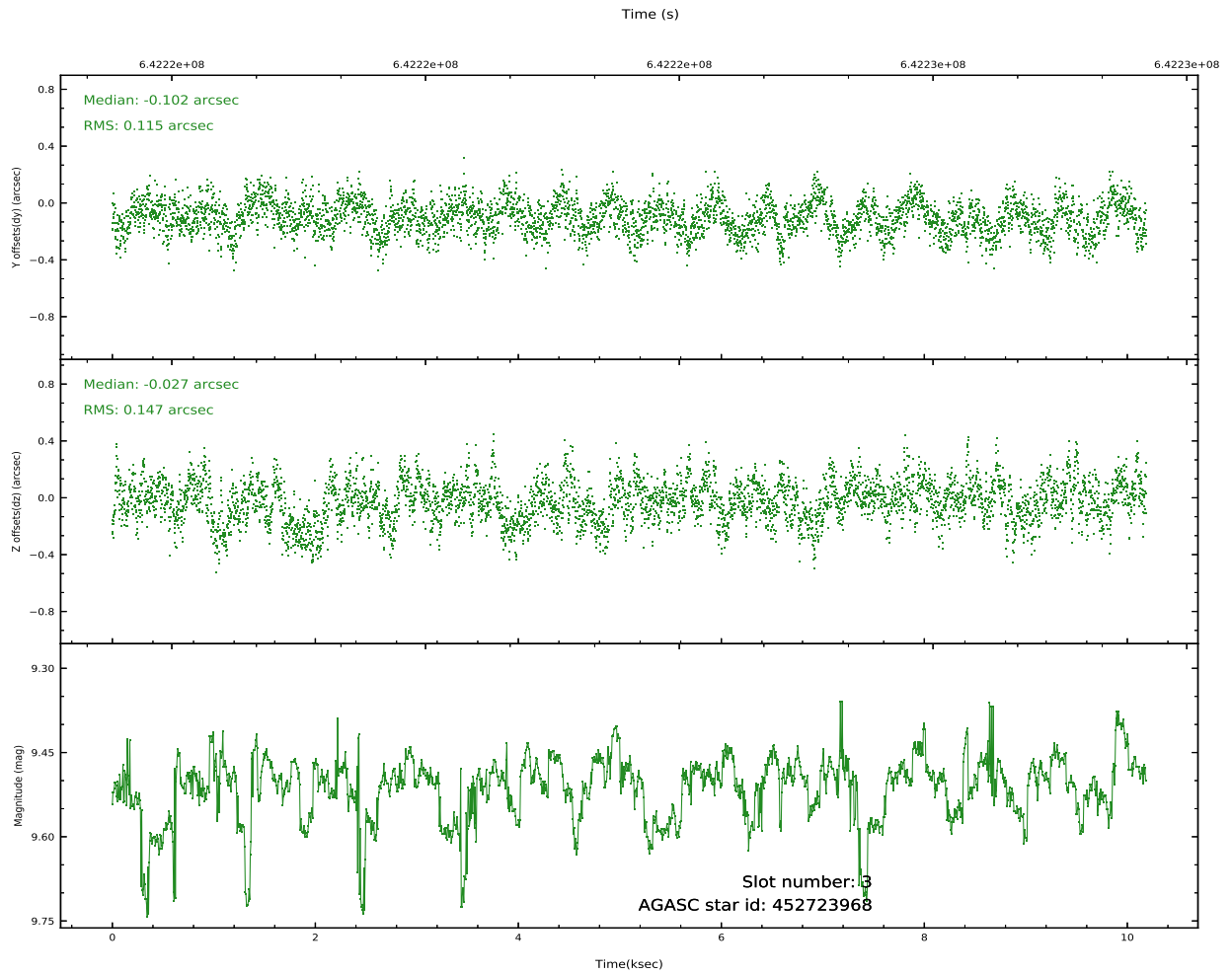
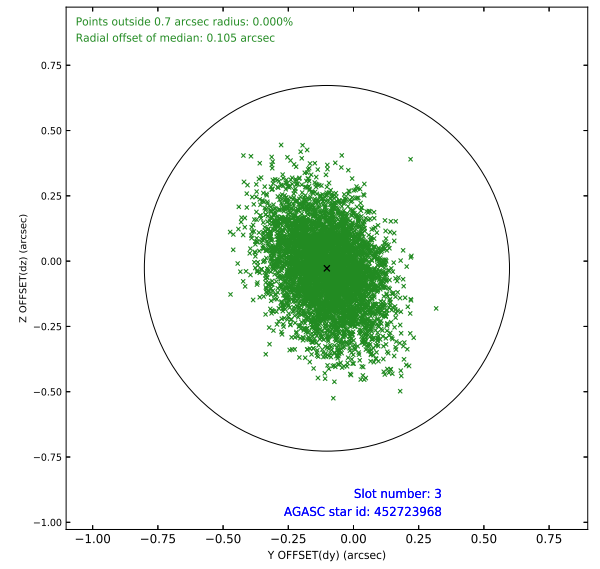
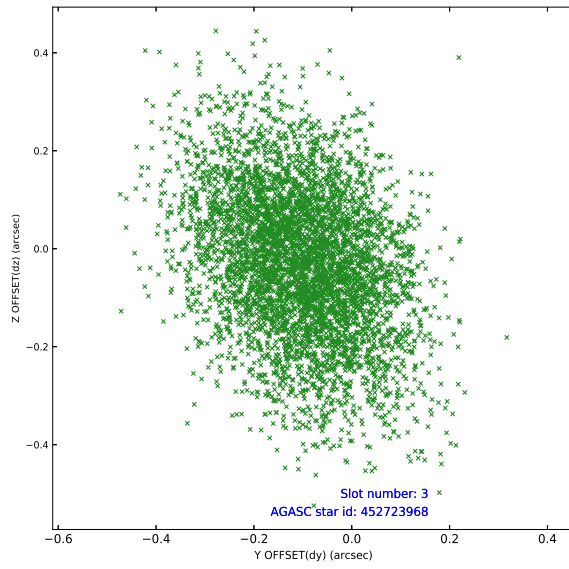


Slot Statistics

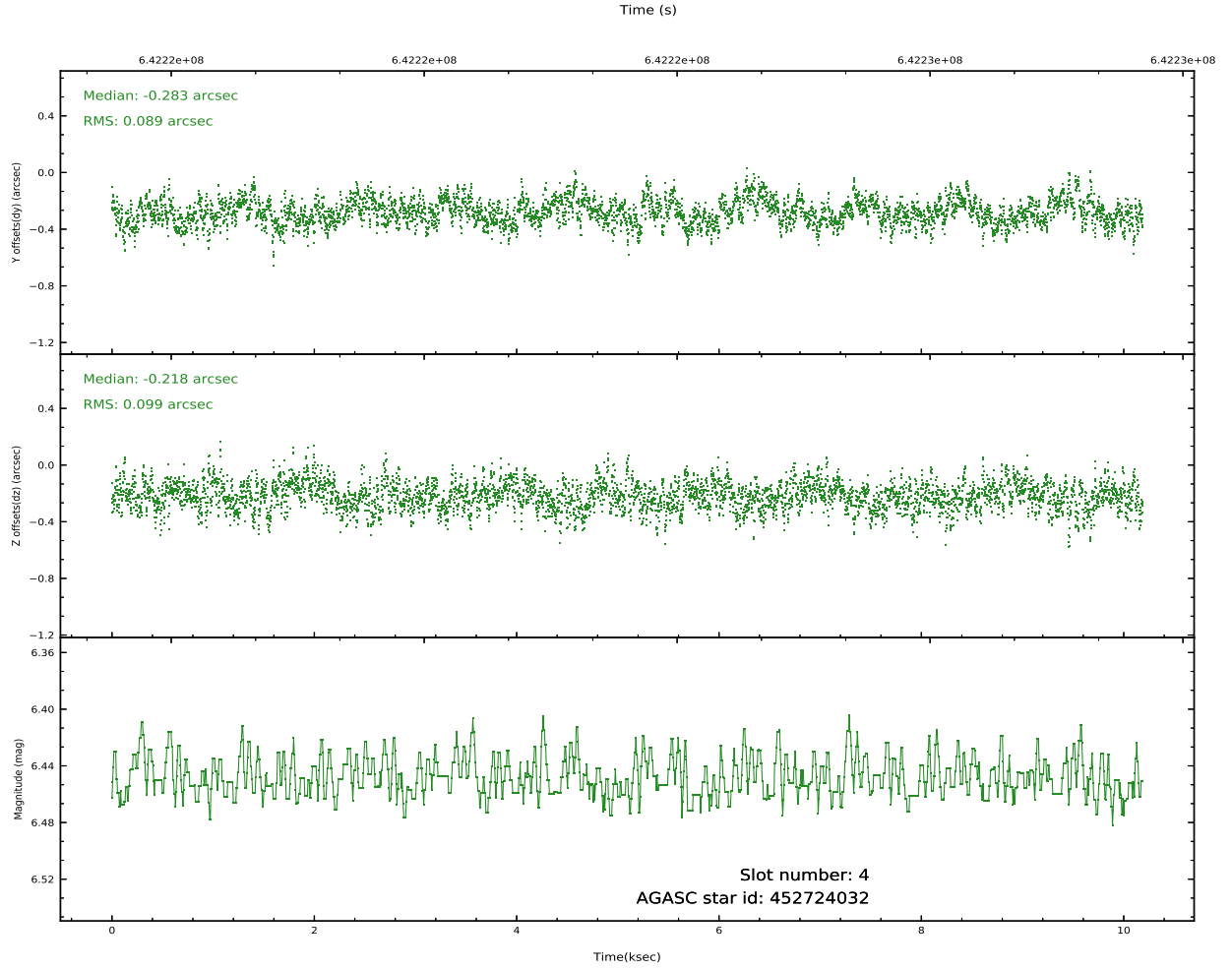
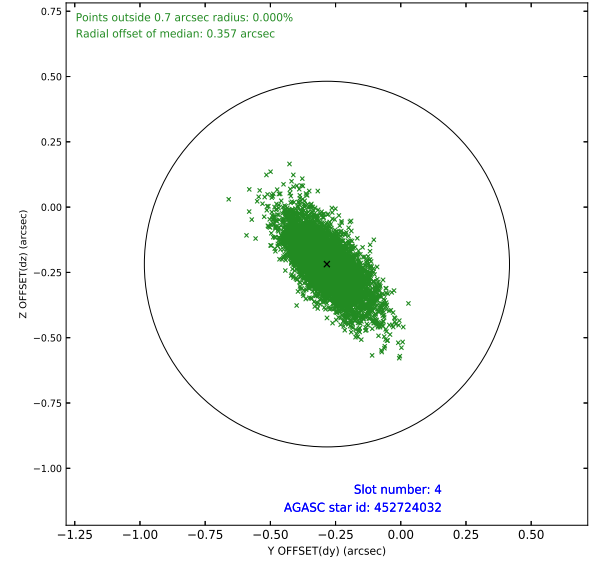
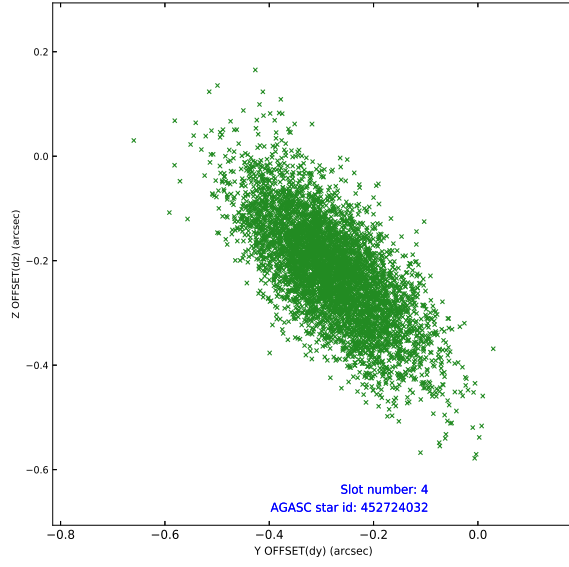
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.03	2485	1.000	0.175	-0.117	0.009	0.015	0.000000	0.000000	-776.18	-1743
1	FID		ACIS-S-4	7.14	2485	1.000	0.094	-0.053	0.012	0.020	0.000000	0.000000	2137.09	163
2	FID		ACIS-S-5	7.14	2485	1.000	-0.302	0.179	0.010	0.018	0.000000	0.000000	-1828.53	158
3	GUIDE	used	452723968	9.50	4963	1.000	-0.102	-0.027	0.198	0.328	177.619149	51.433250	1187.04	895
4	GUIDE	used	452724032	6.45	4970	1.000	-0.283	-0.218	0.135	0.244	177.710584	51.412748	1097.90	1094
5	GUIDE	used	452724144	8.73	4968	1.000	0.112	-0.123	0.187	0.286	177.940604	51.991497	-755.32	13
6	GUIDE	used	452725176	9.85	4902	1.000	0.062	0.380	0.275	0.447	177.983743	52.322712	-1677.32	-749
7	GUIDE	used	452733648	7.55	4967	1.000	0.195	-0.018	0.166	0.292	176.604534	51.932873	1442.53	-1985

## 2.4 Star Slots

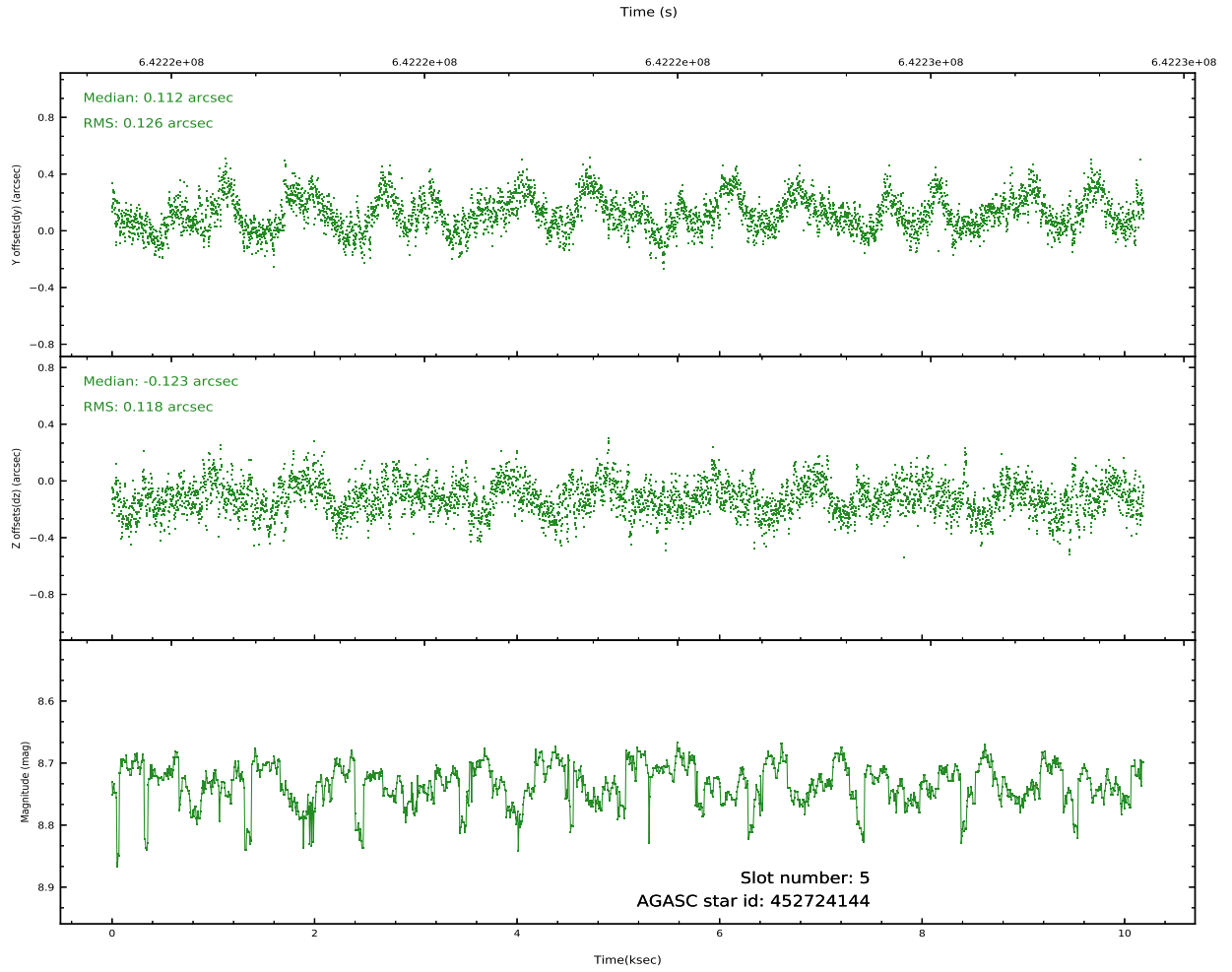
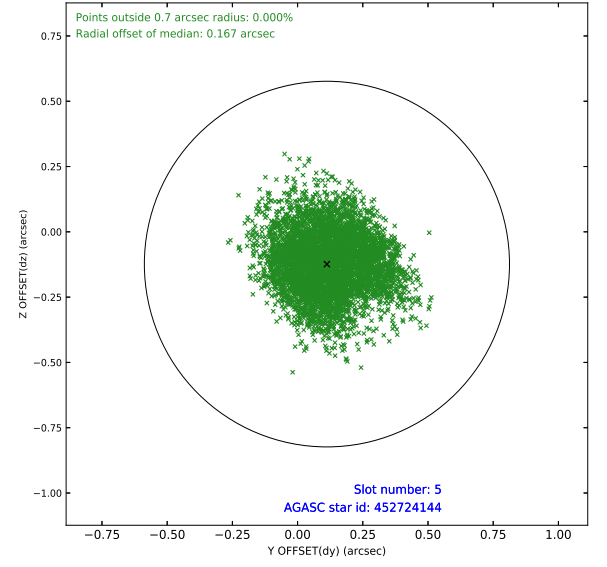
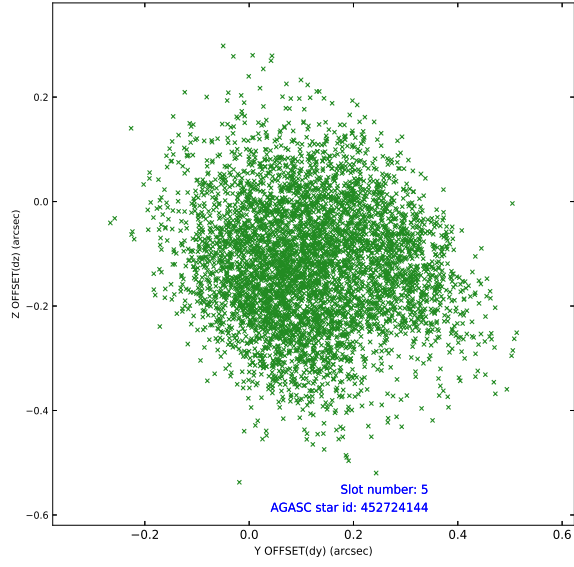
### 2.4.1 Slot 3



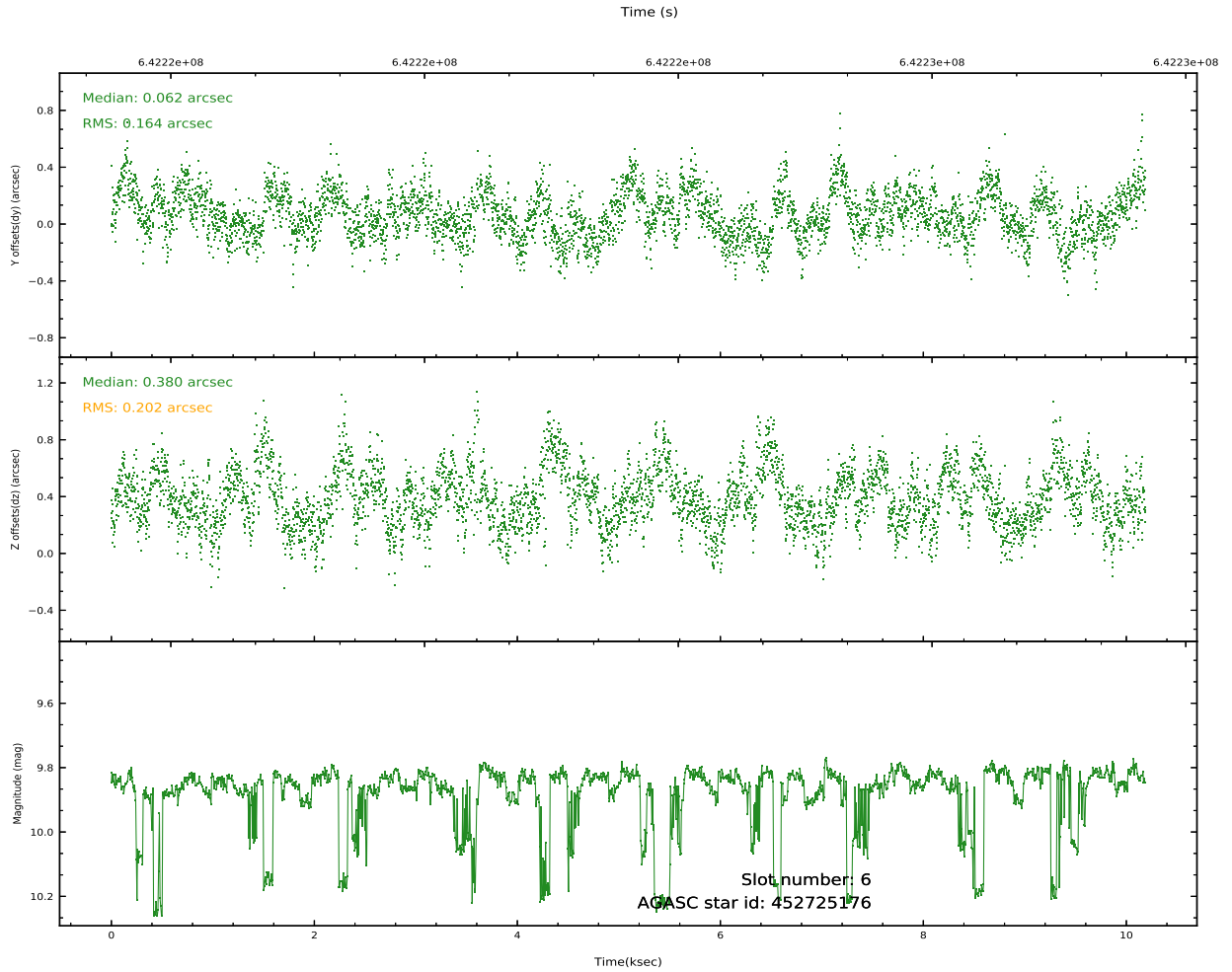
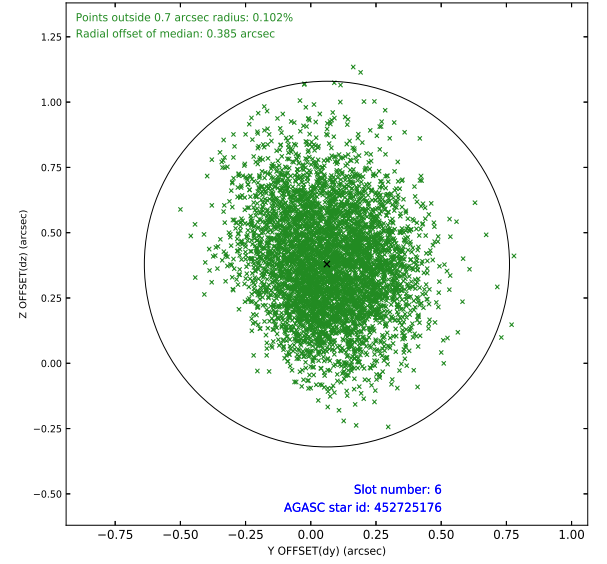
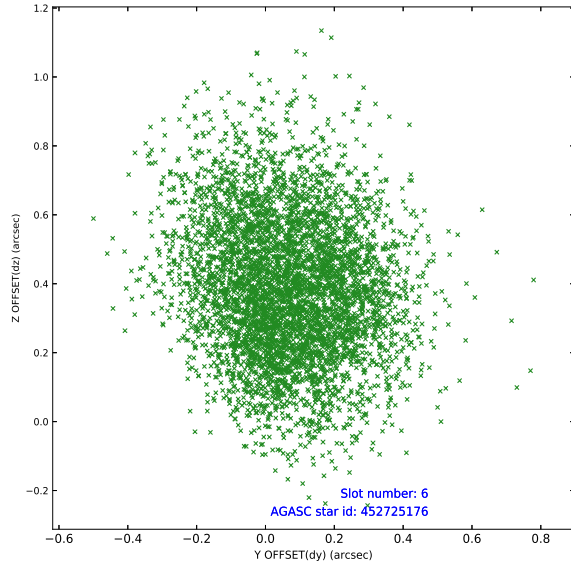
## 2.4.2 Slot 4



### 2.4.3 Slot 5

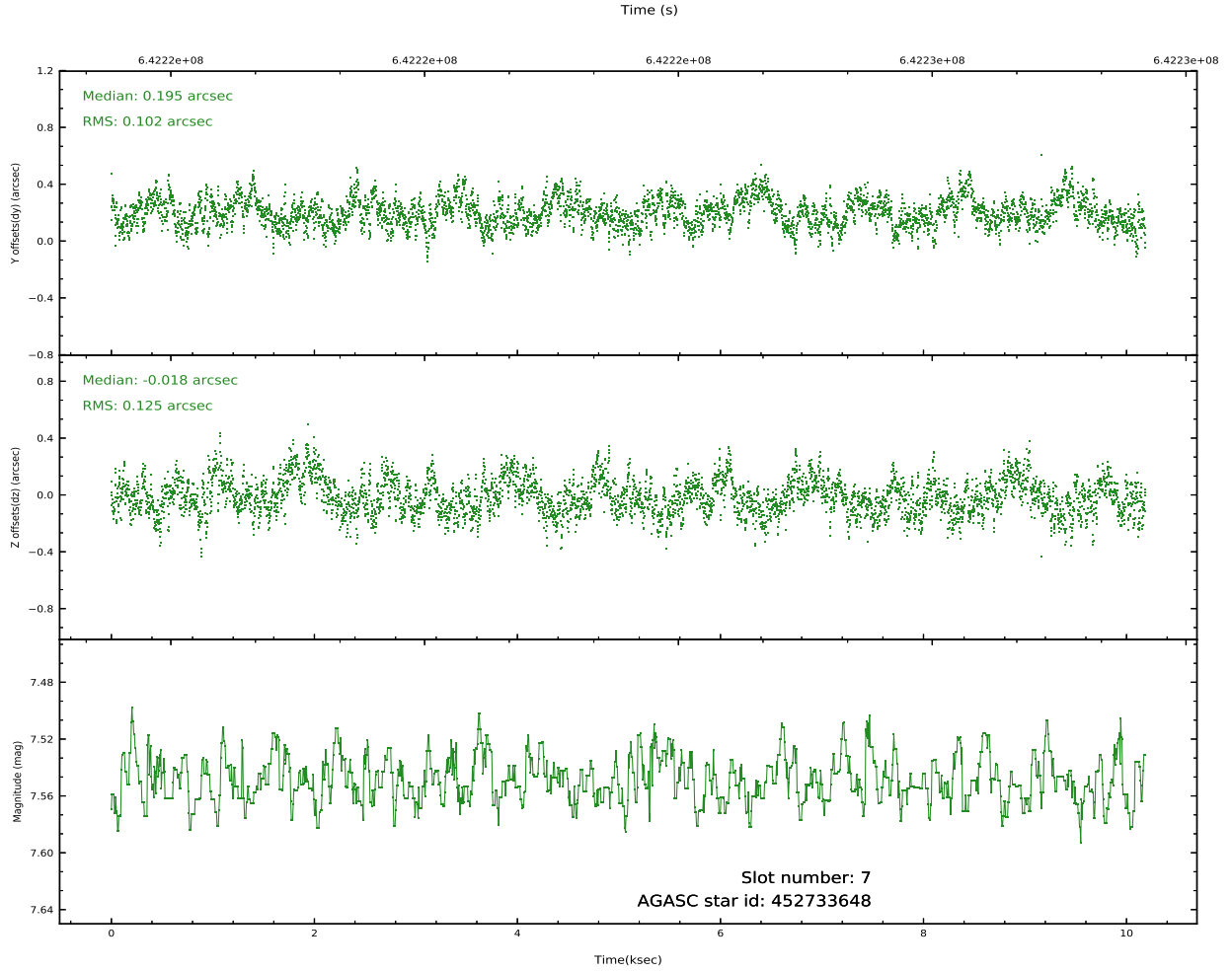
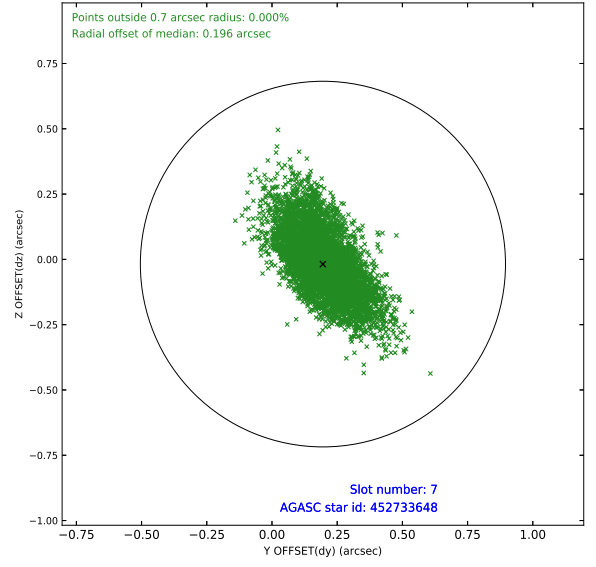
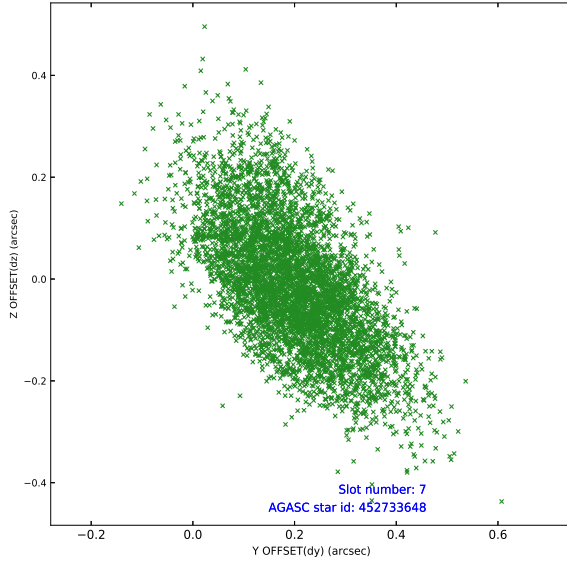


## 2.4.4 Slot 6



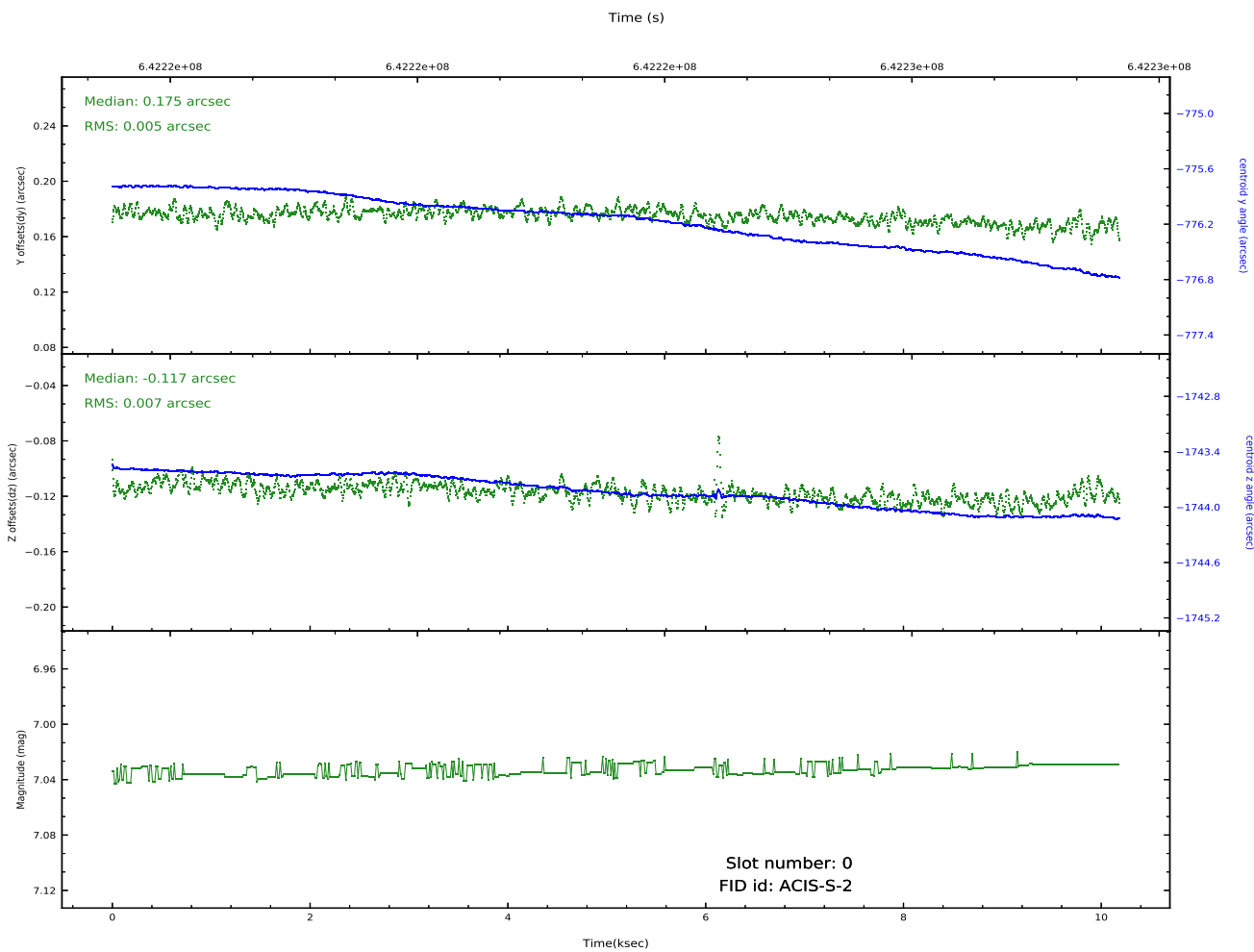
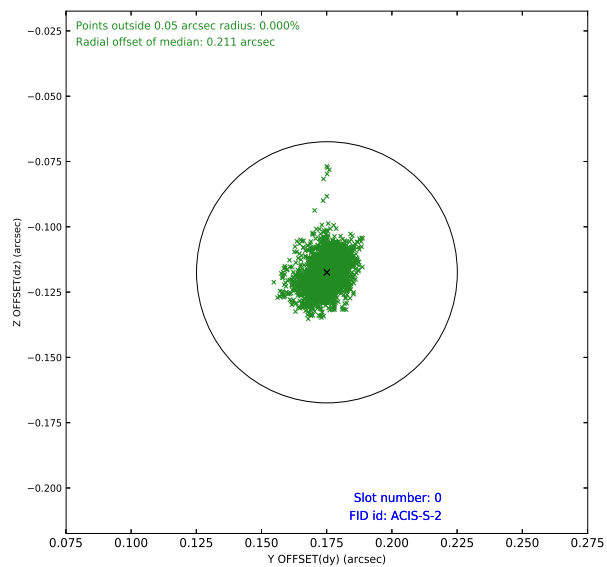
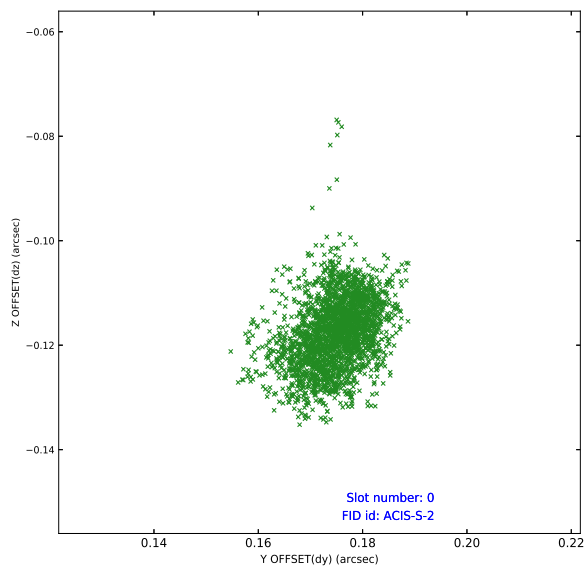


## 2.4.5 Slot 7

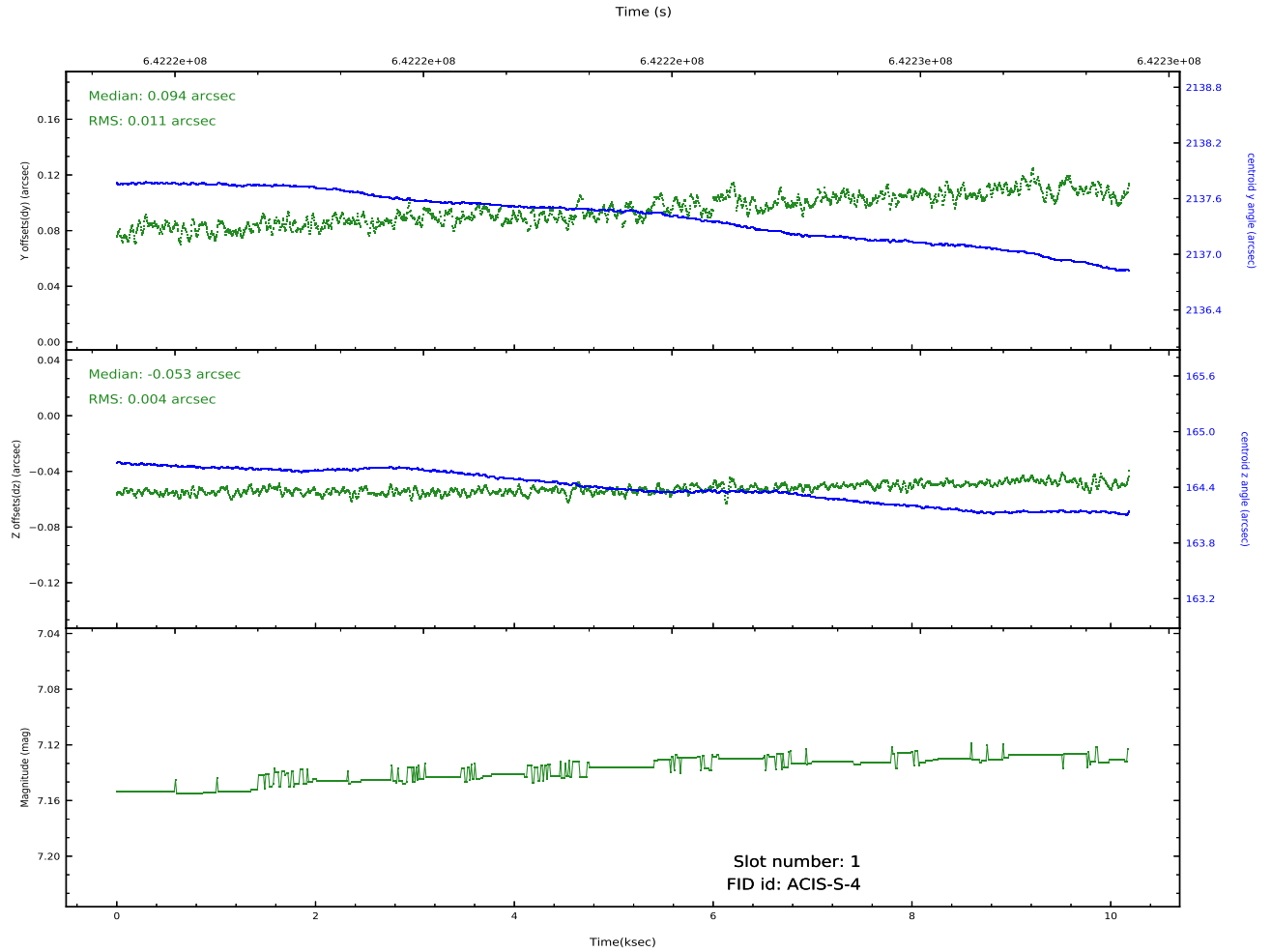
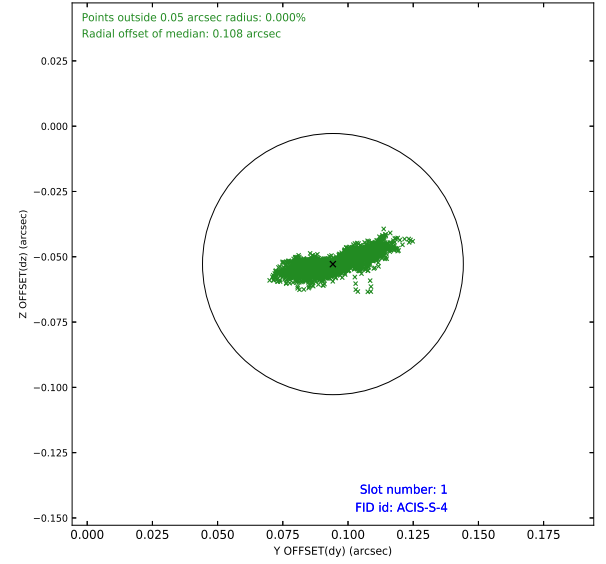
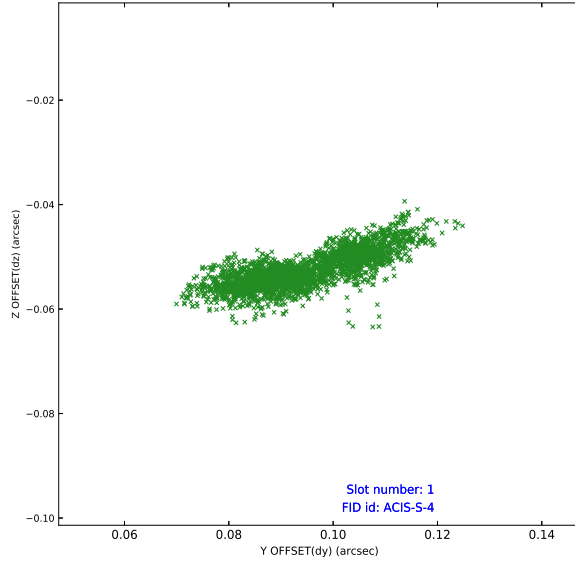


## 2.5 FID Slots

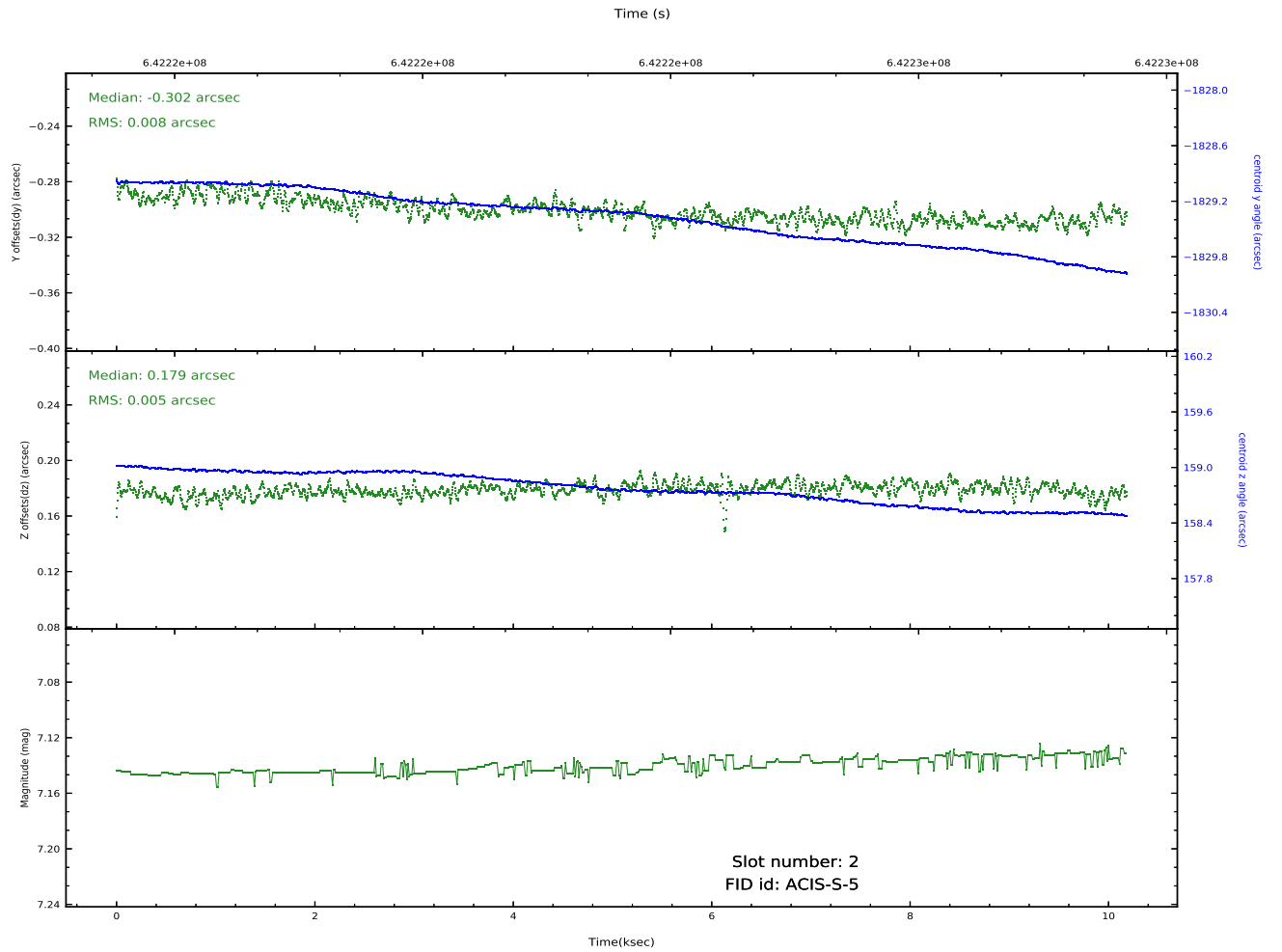
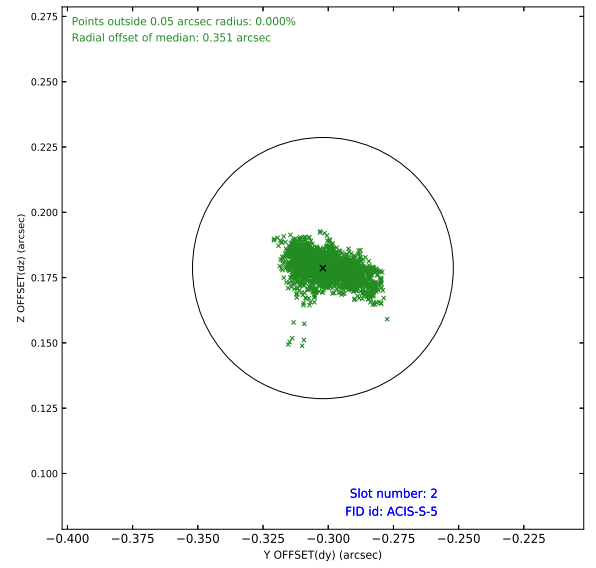
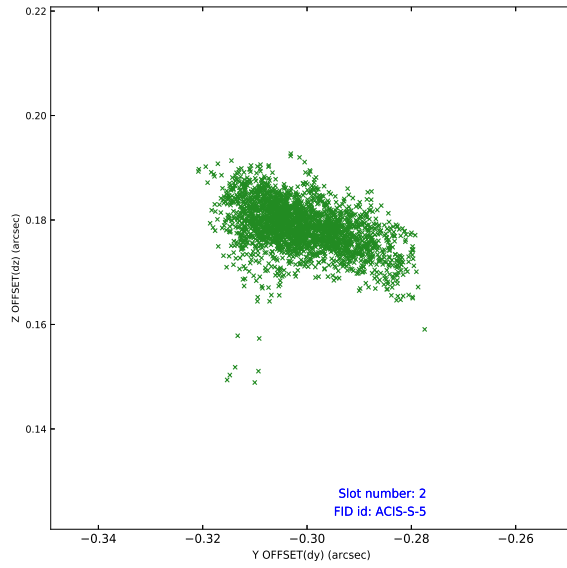
### 2.5.1 Slot 0



## 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	9.9093685151339

### A.2 Comments