

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5639 - L2 Version 4  
Chandra X-Ray Center

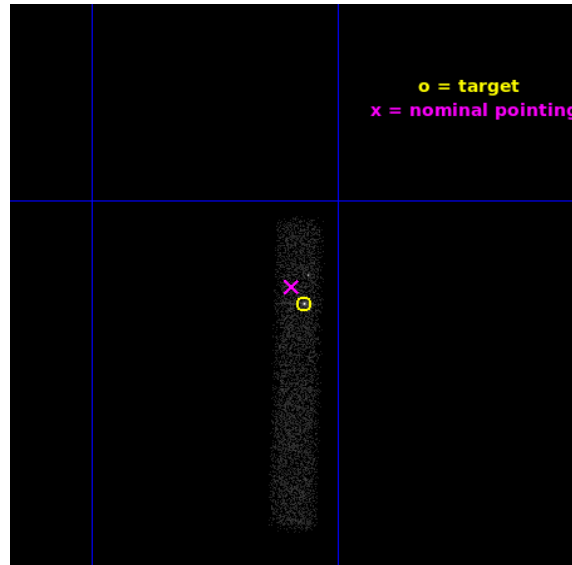
L2 Processing Date : Oct 8 2020

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# 1 Front

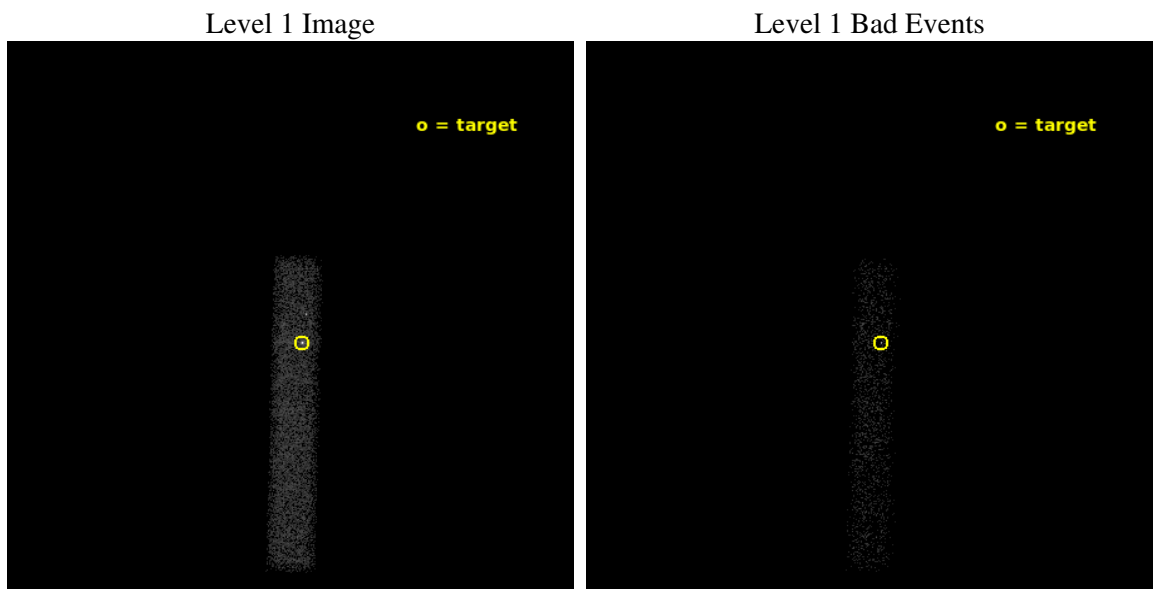
seq_num	701062	Sequence number
obs_id	5639	Observation id
title	The Extended X-ray Structure of a New Population of Blazars	Propos
observer	Dr. Hermine Landt	Principal investigator
object	RGB J2229.6+3057	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	337.3925	Observer's specified target RA [deg]
dec_targ	30.953361	Observer's specified target Dec [deg]
ra_nom	337.39838304257	Nominal RA [deg]
dec_nom	30.960960535718	Nominal Dec [deg]
roll_nom	91.311547884674	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10183.200151712	Sum of GTIs [s]
livetime	9235.6250242261	Livetime [s]
ontime7	10183.200151712	Sum of GTIs [s]
l2events	10603	Number of level 2 events



## 2 OBI

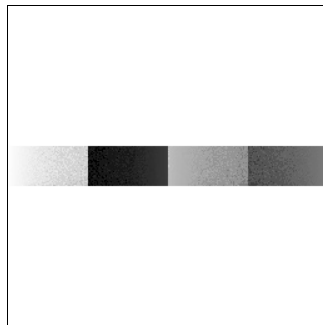
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10183.200151712	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime7	10183.200151712	Sum of GTIs [s]
date	2020-10-08T06:37:03	Date and time of file creation	l1events	19343	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	19343
rejected events	8455
rejected %	43%

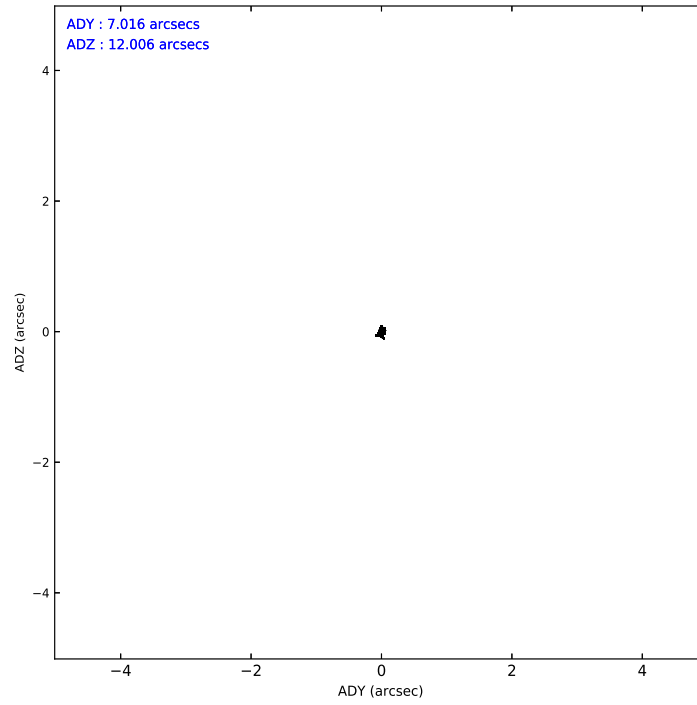
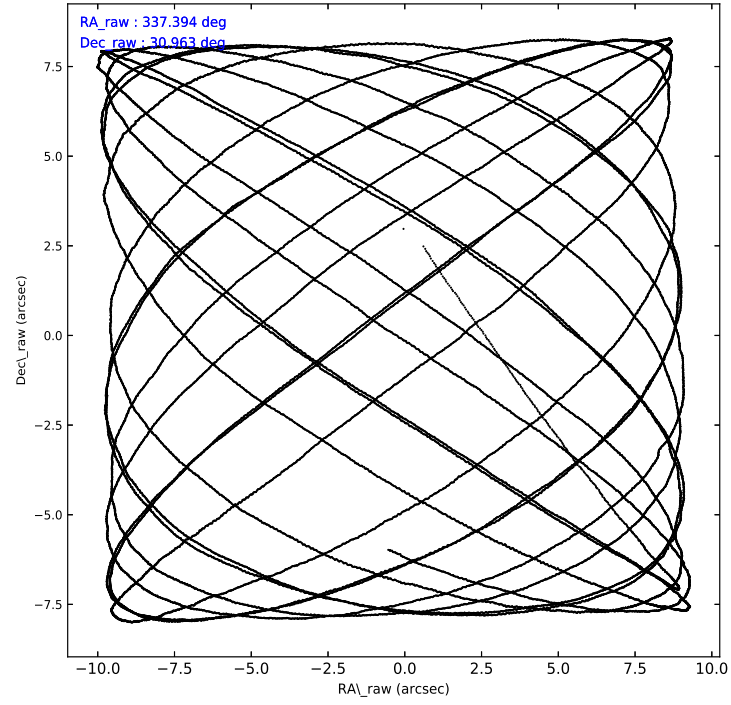
	<b>ccd 7</b>
grade 0 events	2142
	11%
grade 1 events	40
	0%
grade 2 events	2433
	12%
grade 3 events	1445
	7%
grade 4 events	1392
	7%
grade 5 events	1466
	7%
grade 6 events	3835
	19%
grade 7 events	6590
	34%

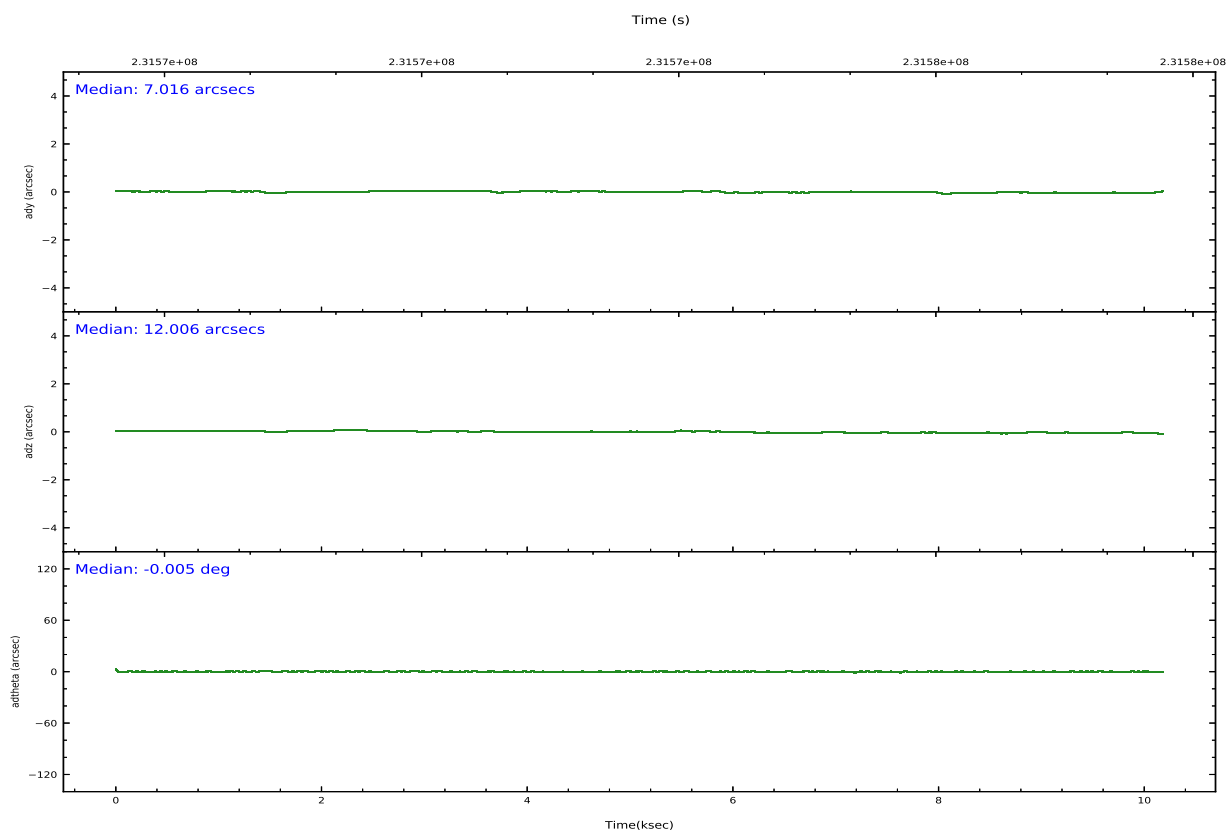
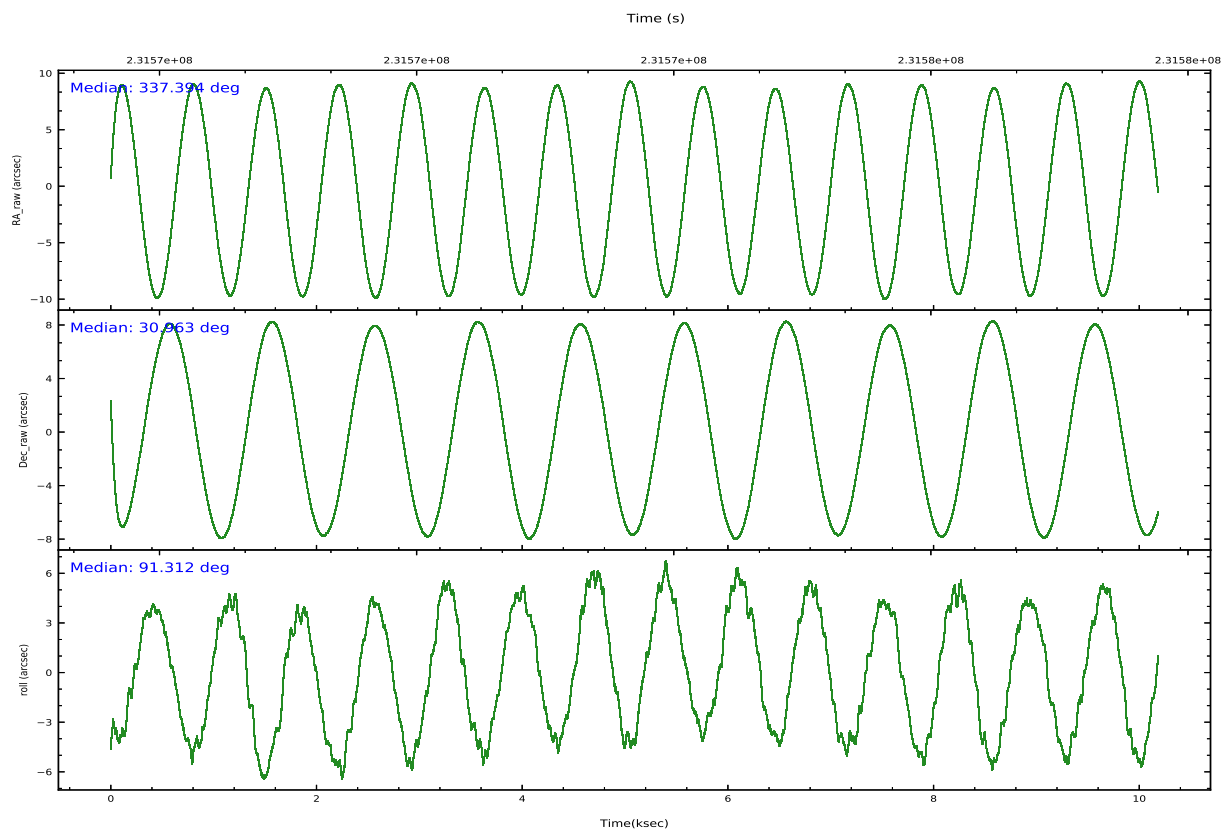


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	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	337.411087	337.39838304257	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	30.939849	30.960960535718	Subarray start row	449	449
[deg] Pointing Roll	91.150054	91.311547884674	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	231567209.184000	231566364.93156			
Observation start date	2005-05-04T04:12:25	2005-05-04T03:59:24			
[s] Observation end time (MET)	231577209.184000	231577511.80707			
Observation end date	2005-05-04T06:59:05	2005-05-04T07:05:11			
Read mode	TIMED	TIMED			

## 2.3 Aspect



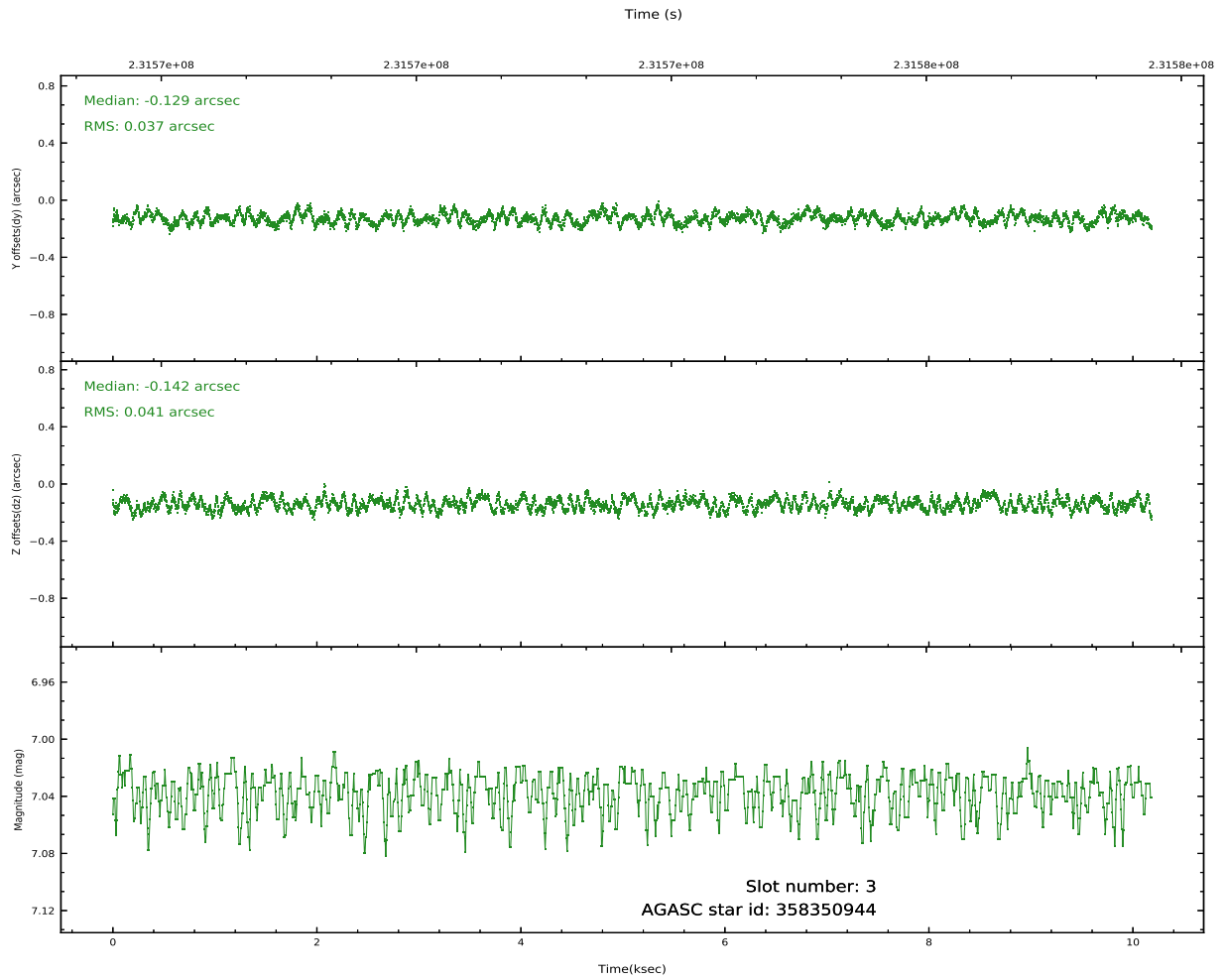
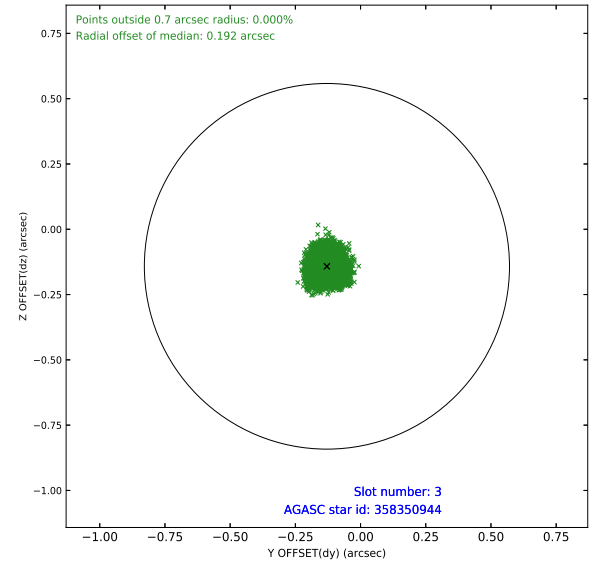
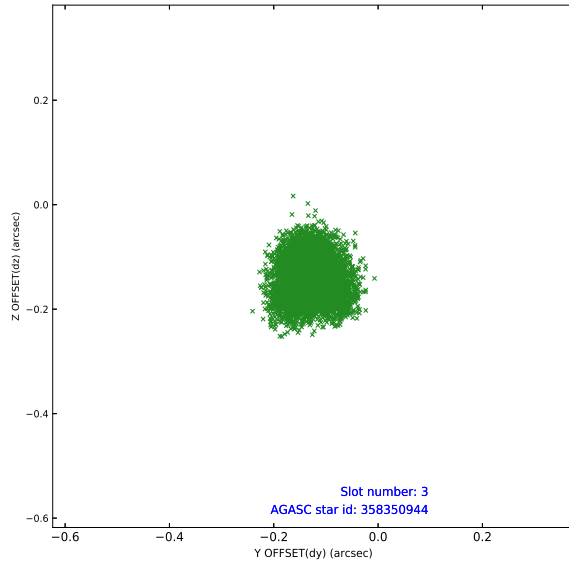


Slot Statistics

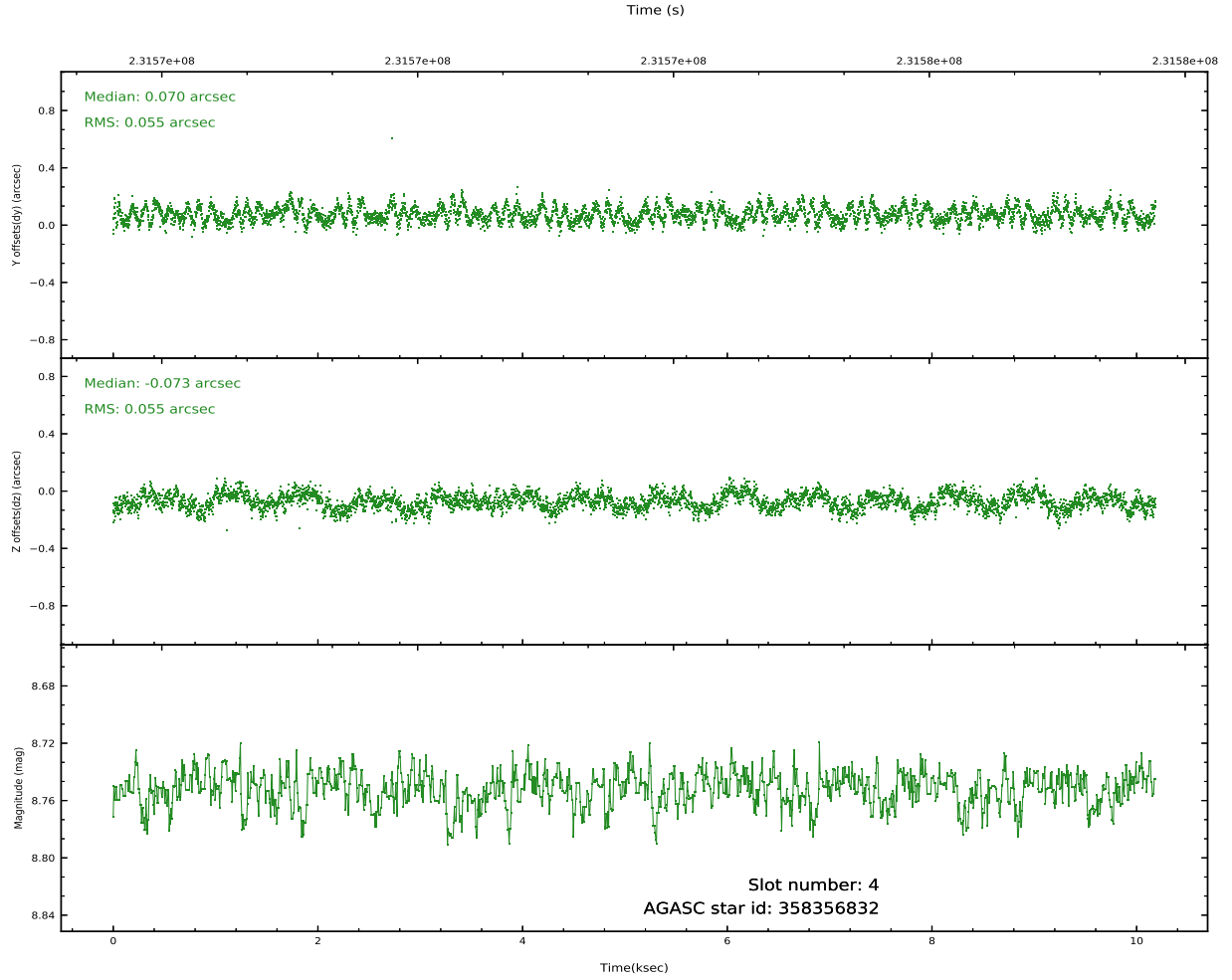
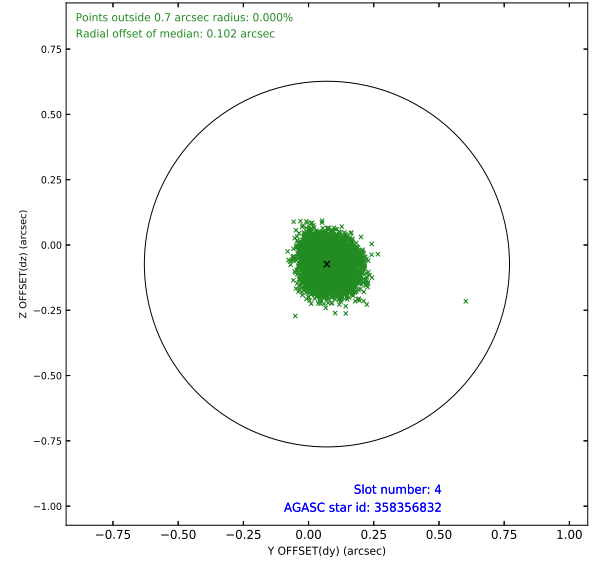
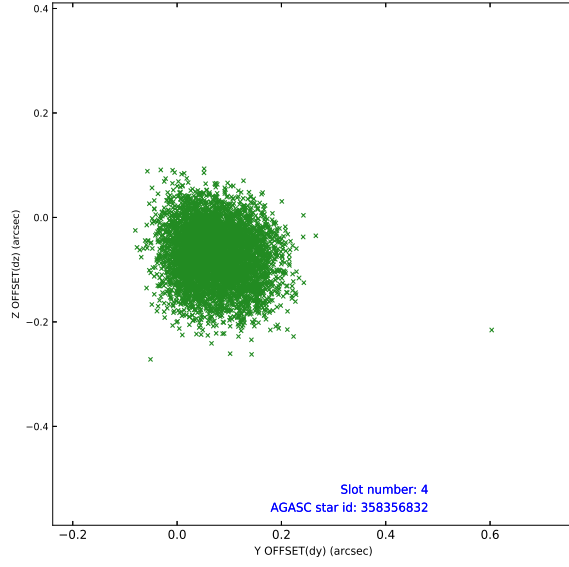
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2484	1.000	-0.058	-0.066	0.007	0.011	0.000000	0.000000	-759.80	-1733
1	FID		ACIS-S-4	7.20	2484	1.000	0.125	0.046	0.005	0.010	0.000000	0.000000	2153.40	174
2	FID		ACIS-S-5	7.23	2482	1.000	-0.098	0.029	0.006	0.011	0.000000	0.000000	-1812.04	168
3	GUIDE	used	358350944	7.04	4969	1.000	-0.129	-0.142	0.061	0.090	336.753763	30.956879	107.65	2027
4	GUIDE	used	358356832	8.75	4969	1.000	0.070	-0.073	0.084	0.130	336.721642	30.516179	-1475.49	2168
5	GUIDE	used	358365584	8.15	4968	1.000	0.062	-0.120	0.063	0.098	336.778508	30.734272	-695.54	1972
6	GUIDE	used	358484992	8.73	4968	1.000	0.009	0.213	0.069	0.112	337.895645	30.575890	-1336.61	-1474
7	GUIDE	used	358494392	7.03	4967	1.000	-0.014	0.119	0.069	0.108	337.534935	31.215786	985.64	-400

## 2.4 Star Slots

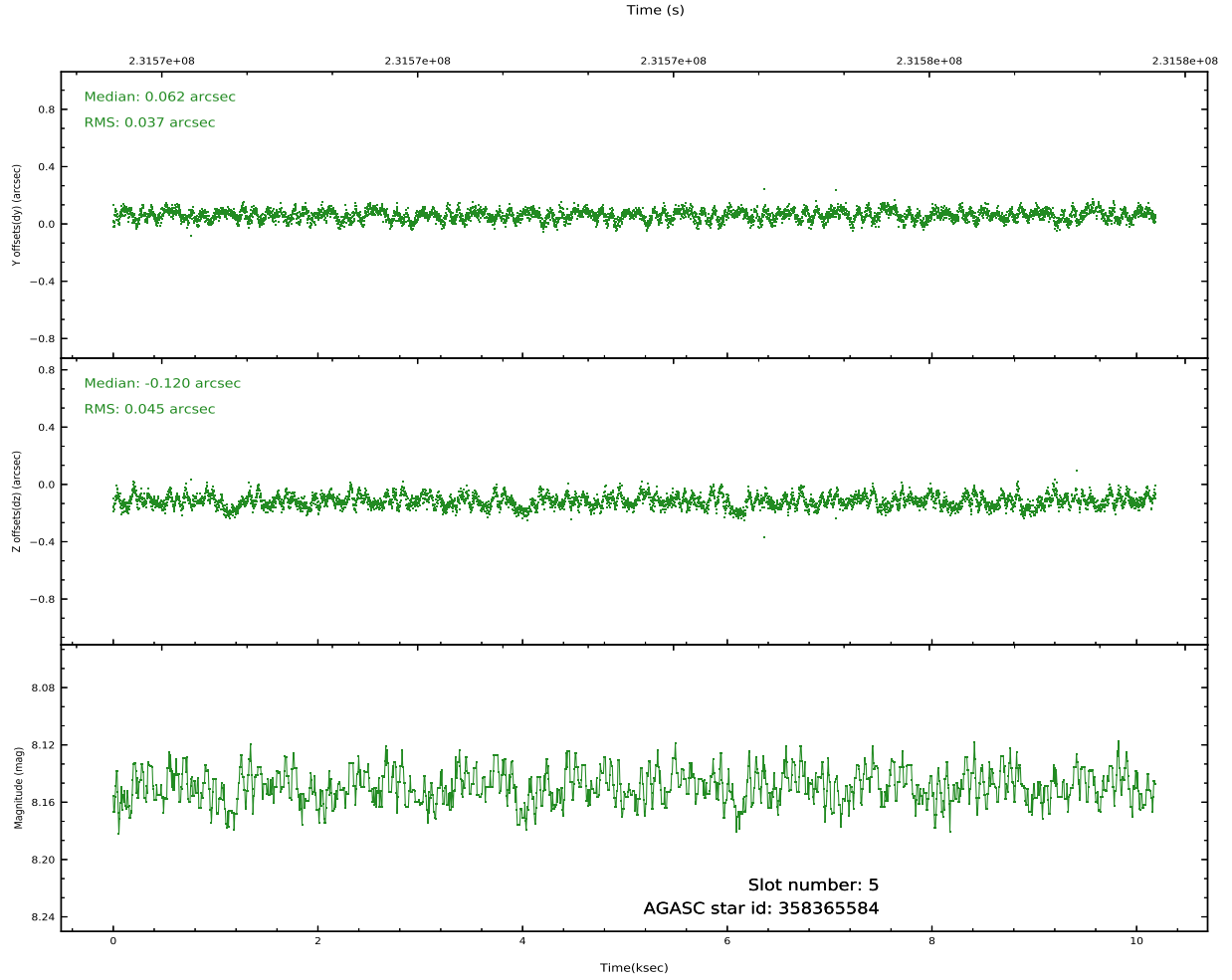
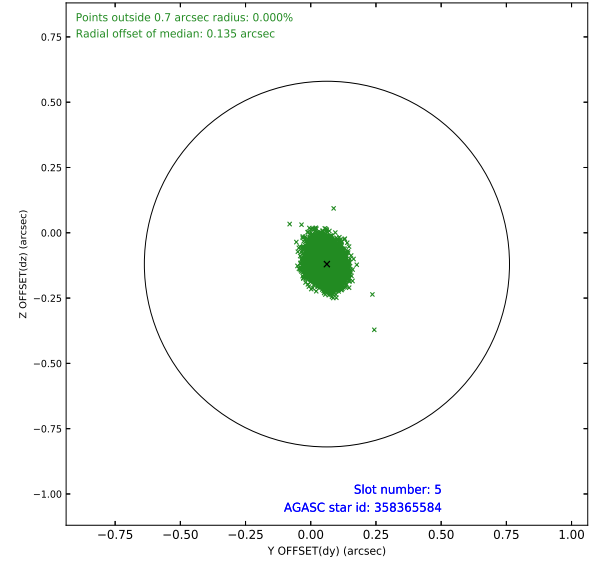
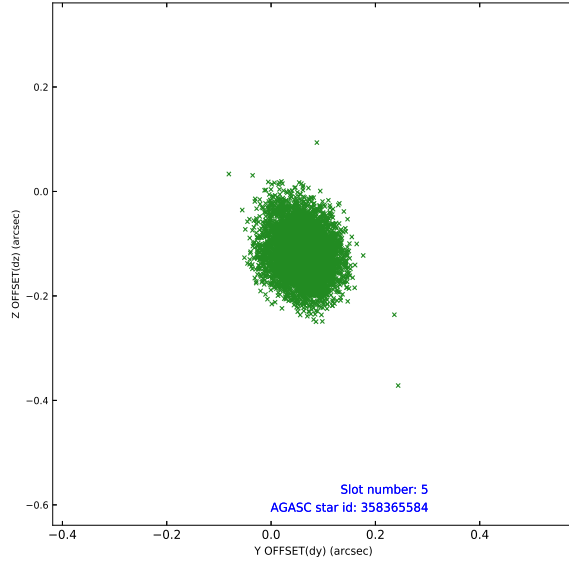
### 2.4.1 Slot 3



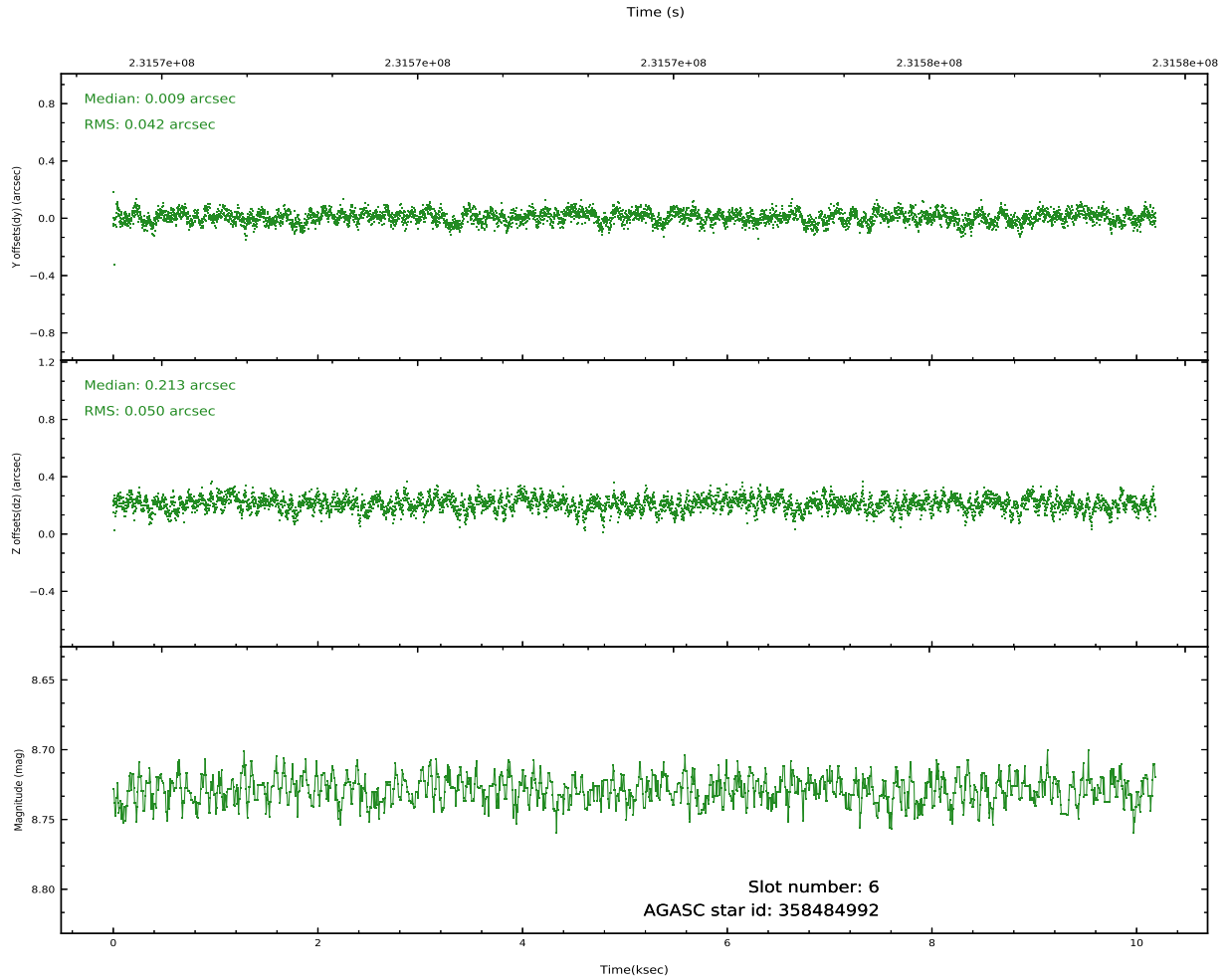
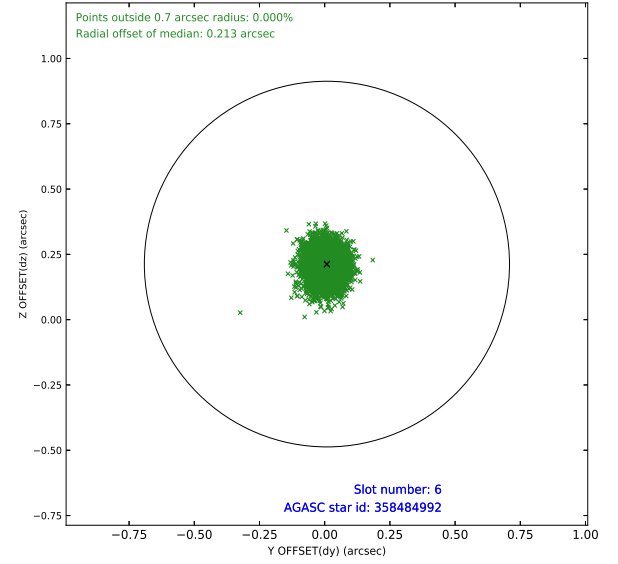
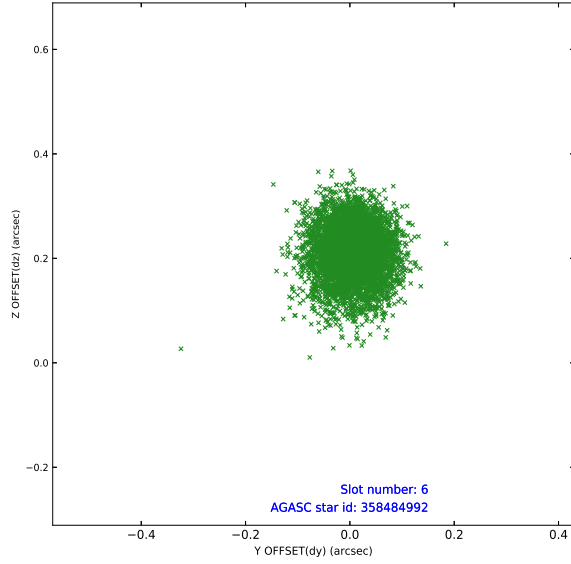
## 2.4.2 Slot 4



### 2.4.3 Slot 5

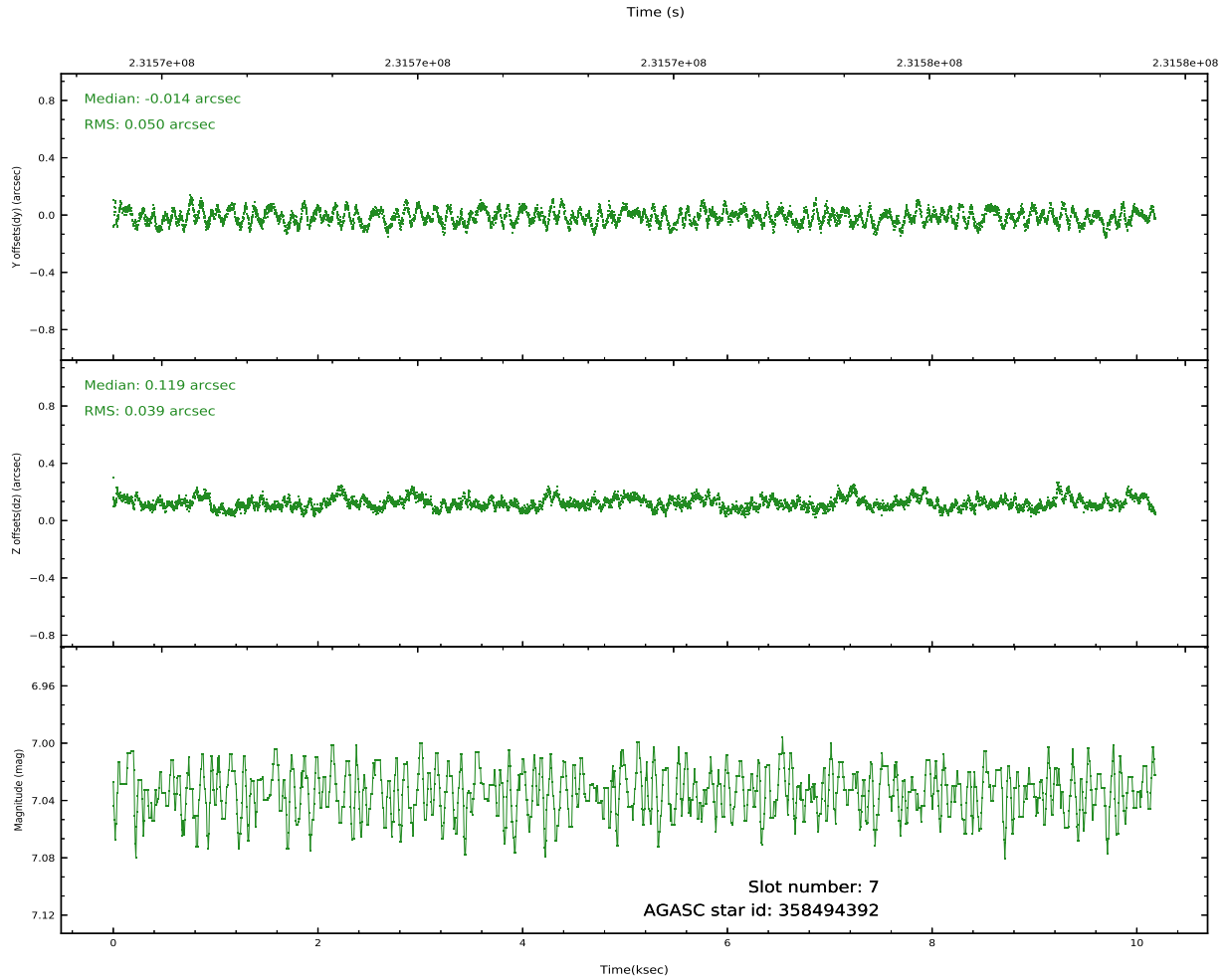
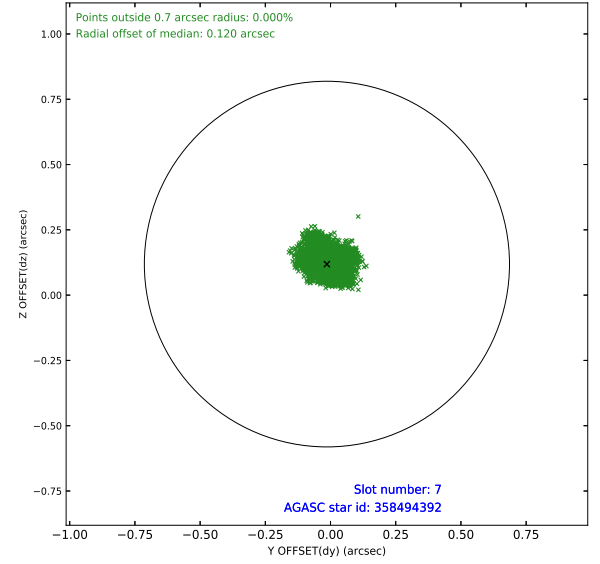
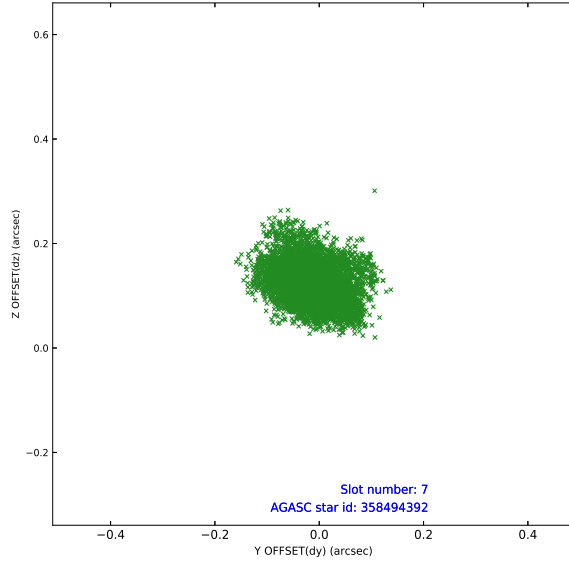


## 2.4.4 Slot 6



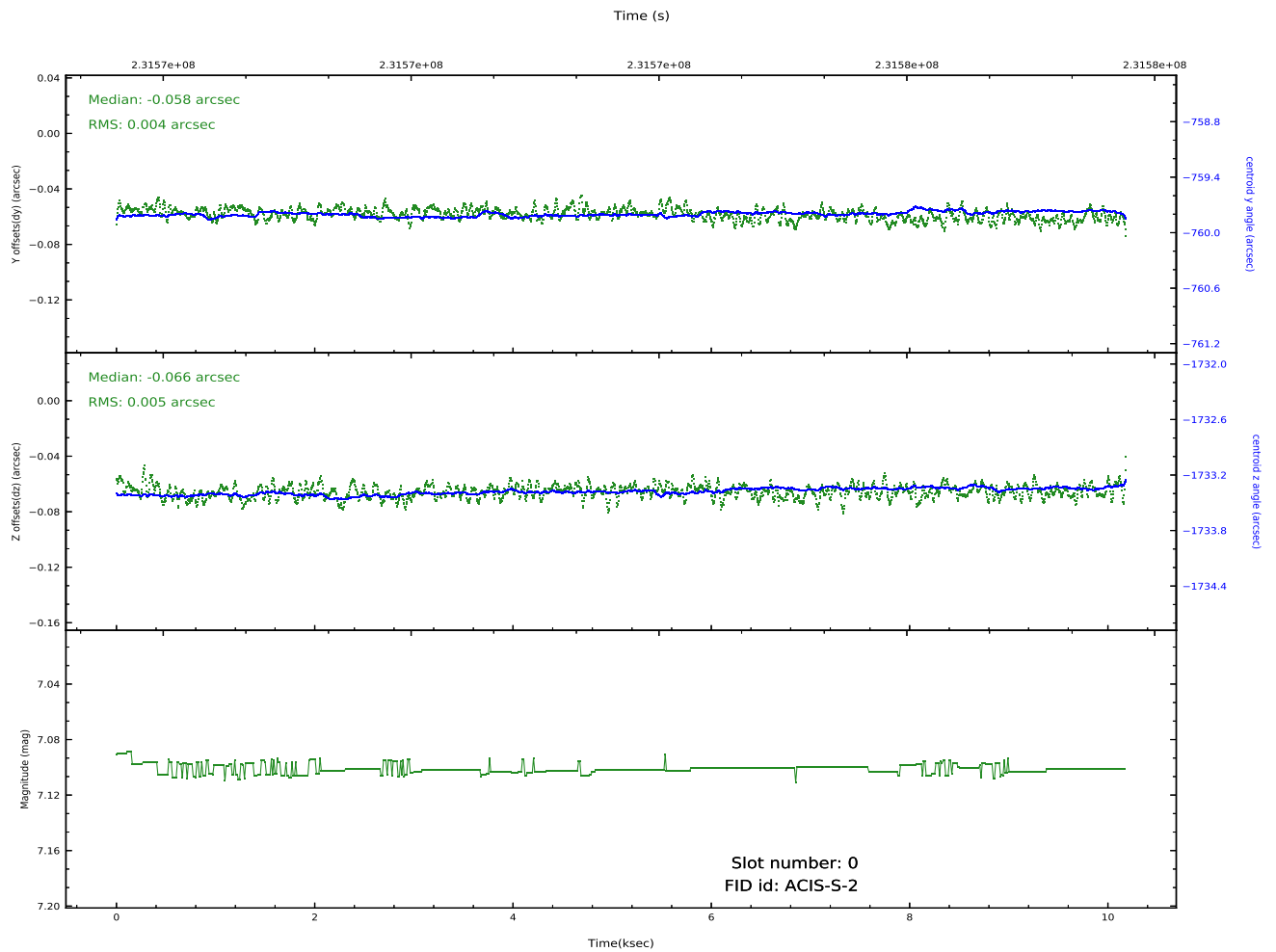
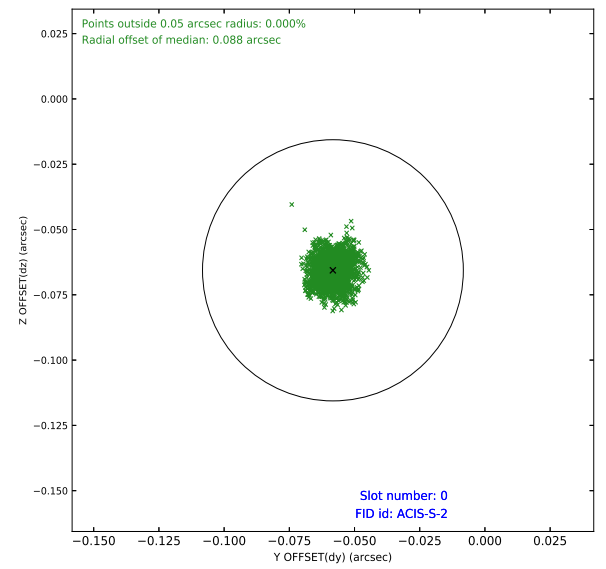
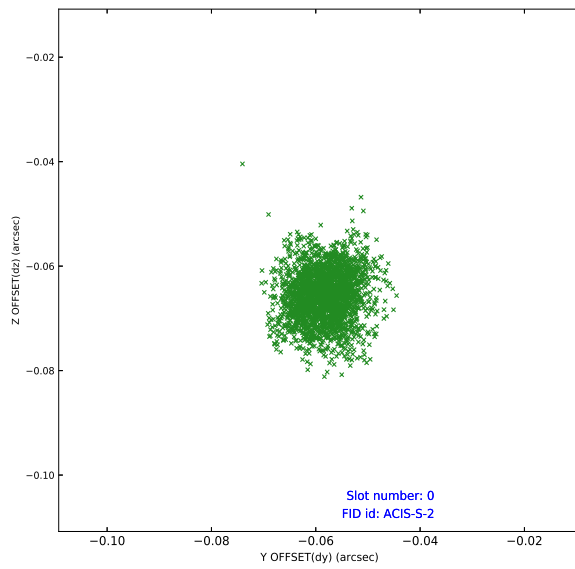


## 2.4.5 Slot 7

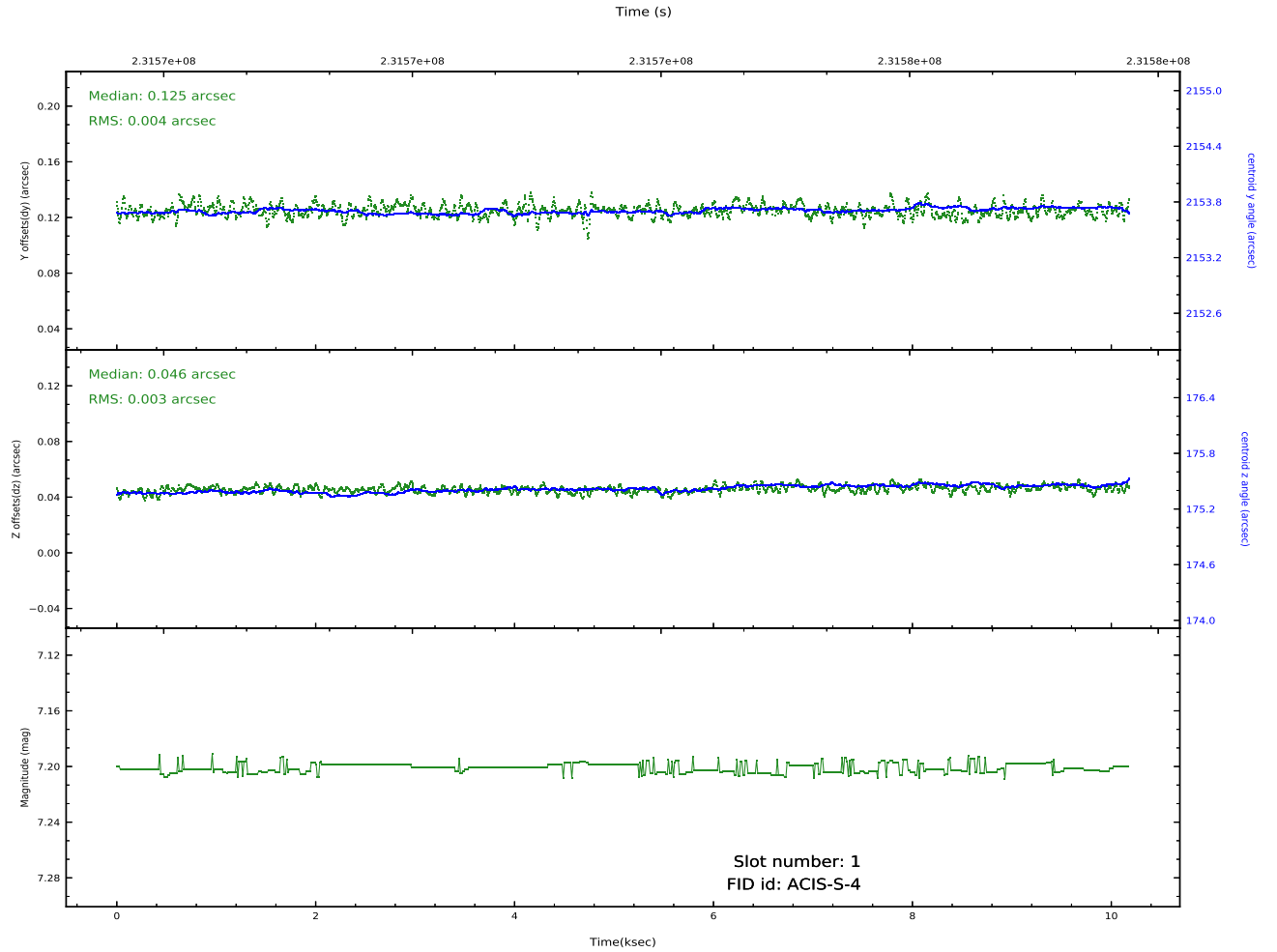
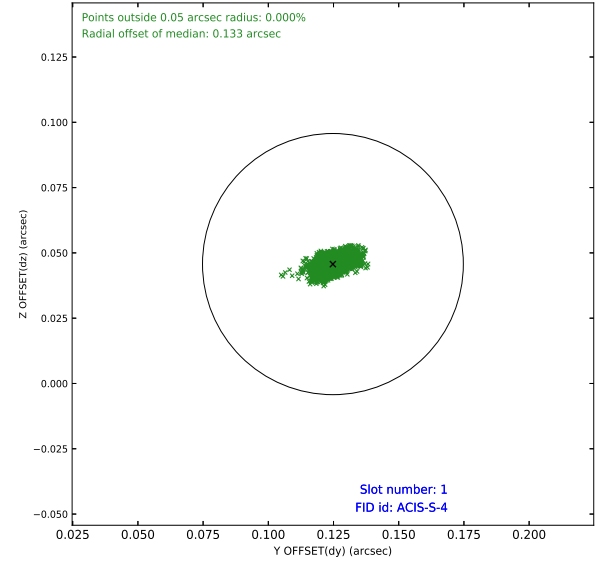
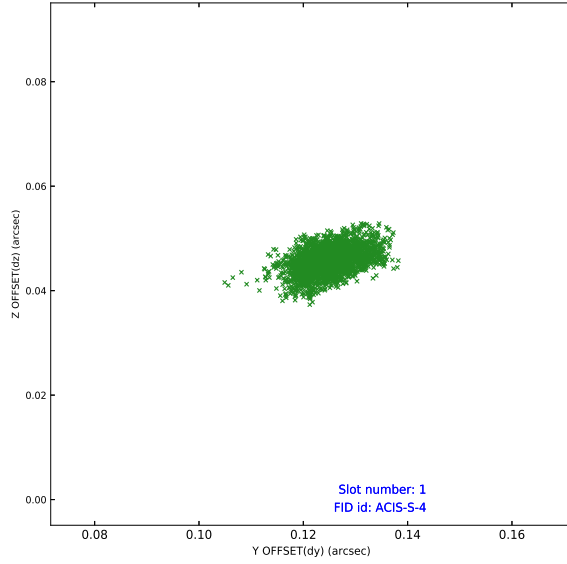


## 2.5 FID Slots

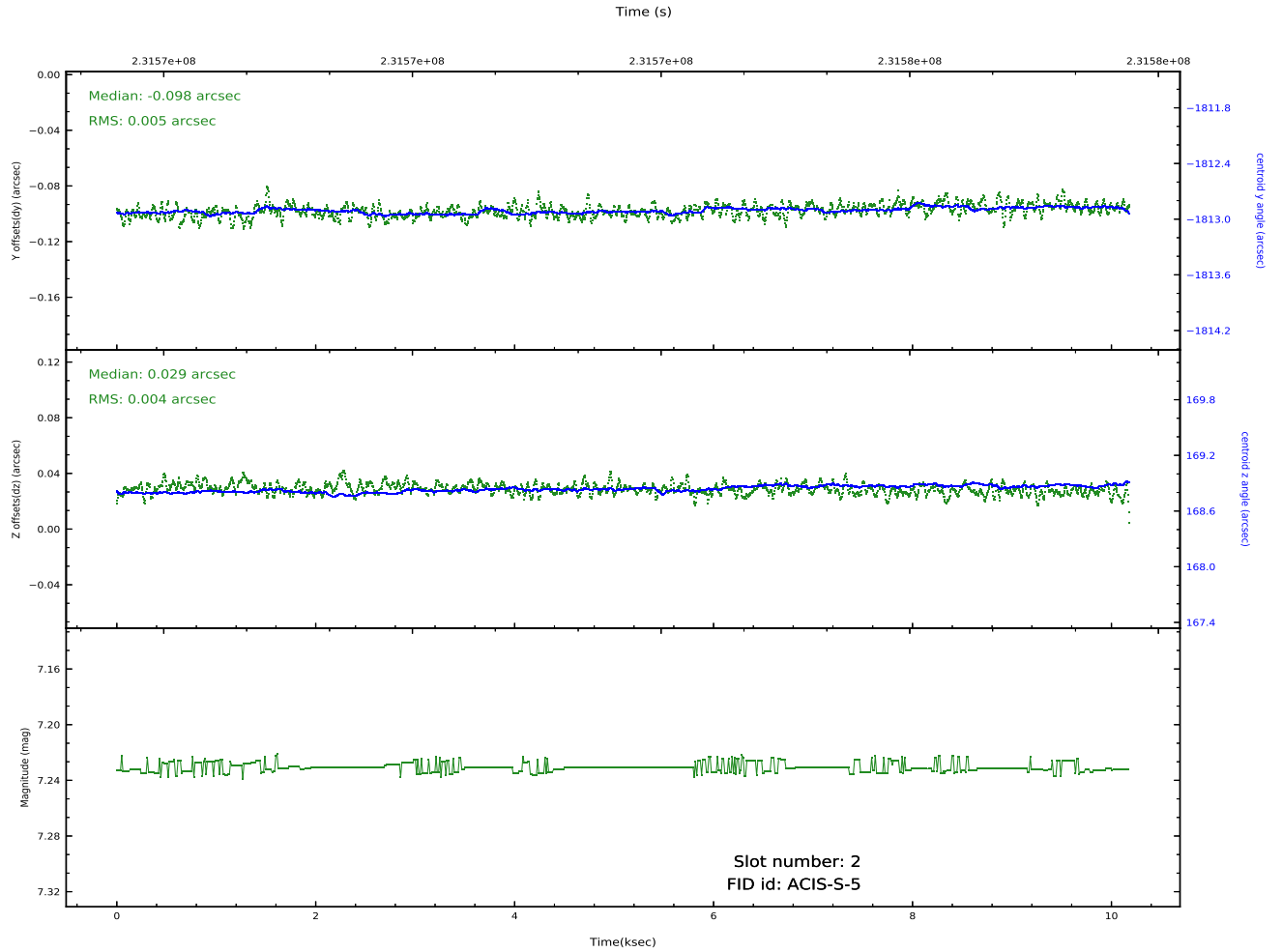
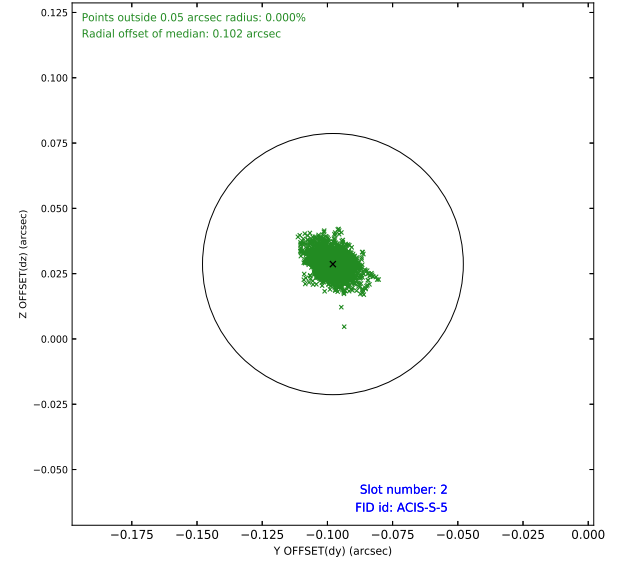
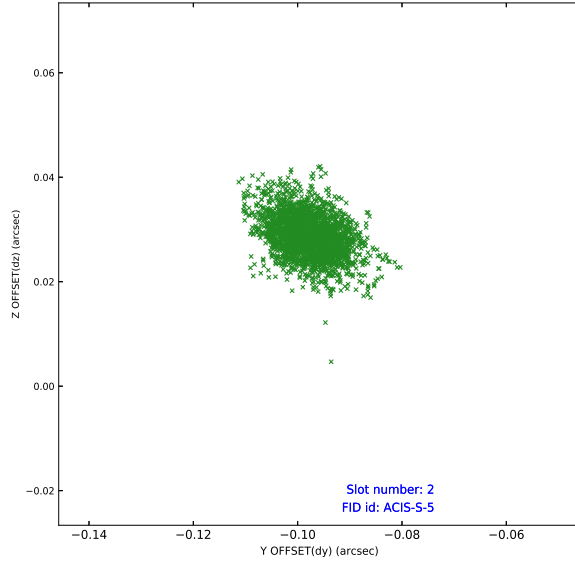
### 2.5.1 Slot 0



## 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)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.1832

### A.2 Comments

Roll preference met.