

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5672 - L2 Version 4  
Chandra X-Ray Center

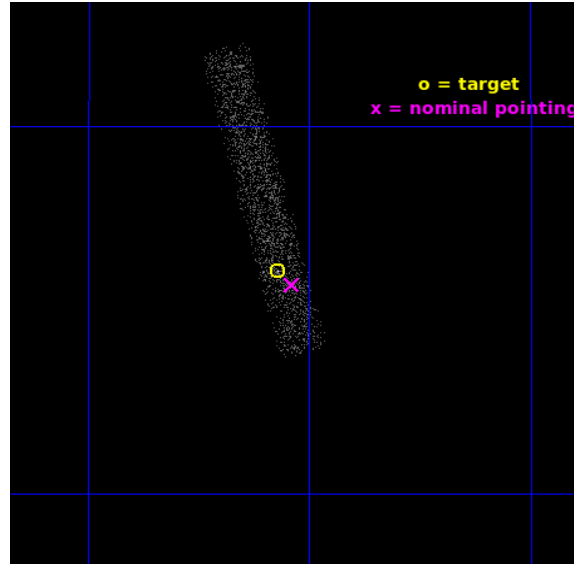
L2 Processing Date : Oct 5 2020

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# 1 Front

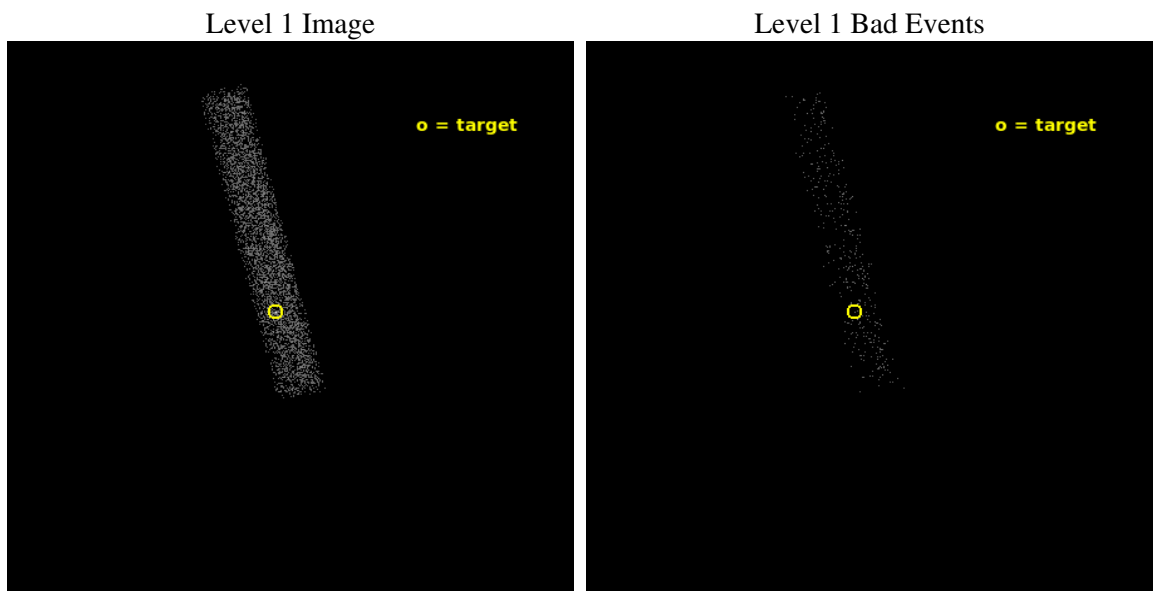
seq_num	701095	Sequence number
obs_id	5672	Observation id
title	Gems in the Chandra Deep Fields: The Nature of Optically Passive X-ray Galaxies (aka XBONGs)	Proposal title
observer	Dr. Sally Laurent-Muehleisen	Principal investigator
object	RGB0223+396	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	35.892917	Observer's specified target RA [deg]
dec_targ	39.601194	Observer's specified target Dec [deg]
ra_nom	35.884899081489	Nominal RA [deg]
dec_nom	39.594913537092	Nominal Dec [deg]
roll_nom	255.86158241521	Nominal Roll [deg]
revision	4	Processing version of data
ontime	4018.2346286476	Sum of GTIs [s]
livetime	3644.3267083689	Livetime [s]
ontime7	4018.2346286476	Sum of GTIs [s]
l2events	2693	Number of level 2 events



## 2 OBI

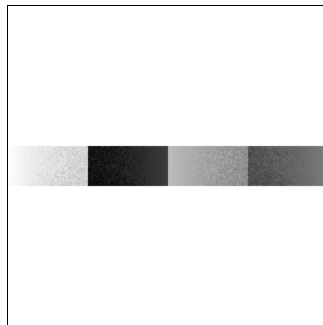
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	4018.2346286476	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime7	4018.2346286476	Sum of GTIs [s]
date	2020-10-05T11:25:44	Date and time of file creation	l1events	5601	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	5601
rejected events	2800
rejected %	49%

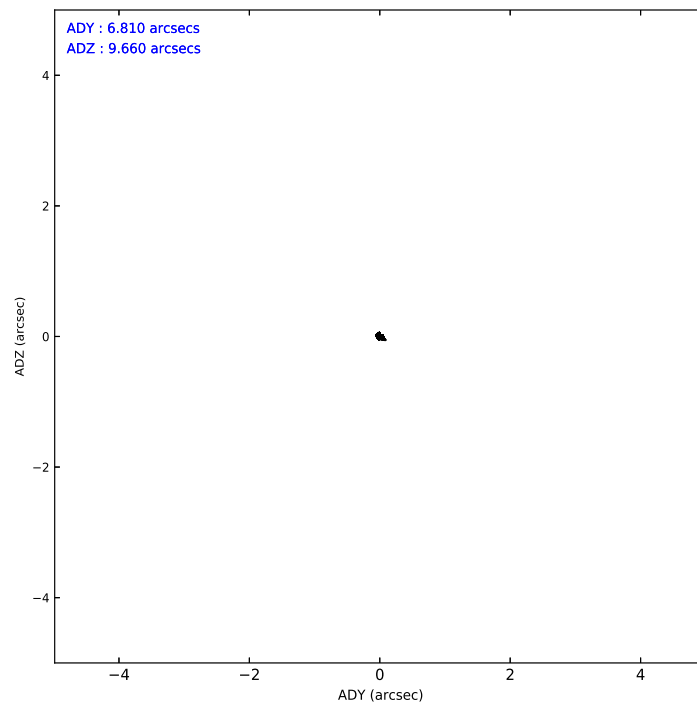
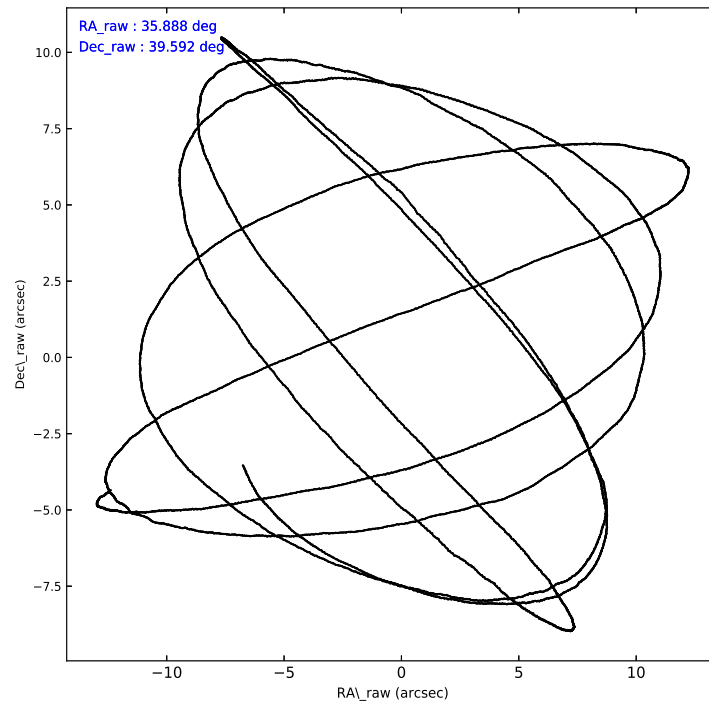
	<b>ccd 7</b>
grade 0 events	386
	6%
grade 1 events	9
	0%
grade 2 events	574
	10%
grade 3 events	369
	6%
grade 4 events	330
	5%
grade 5 events	456
	8%
grade 6 events	1142
	20%
grade 7 events	2335
	41%

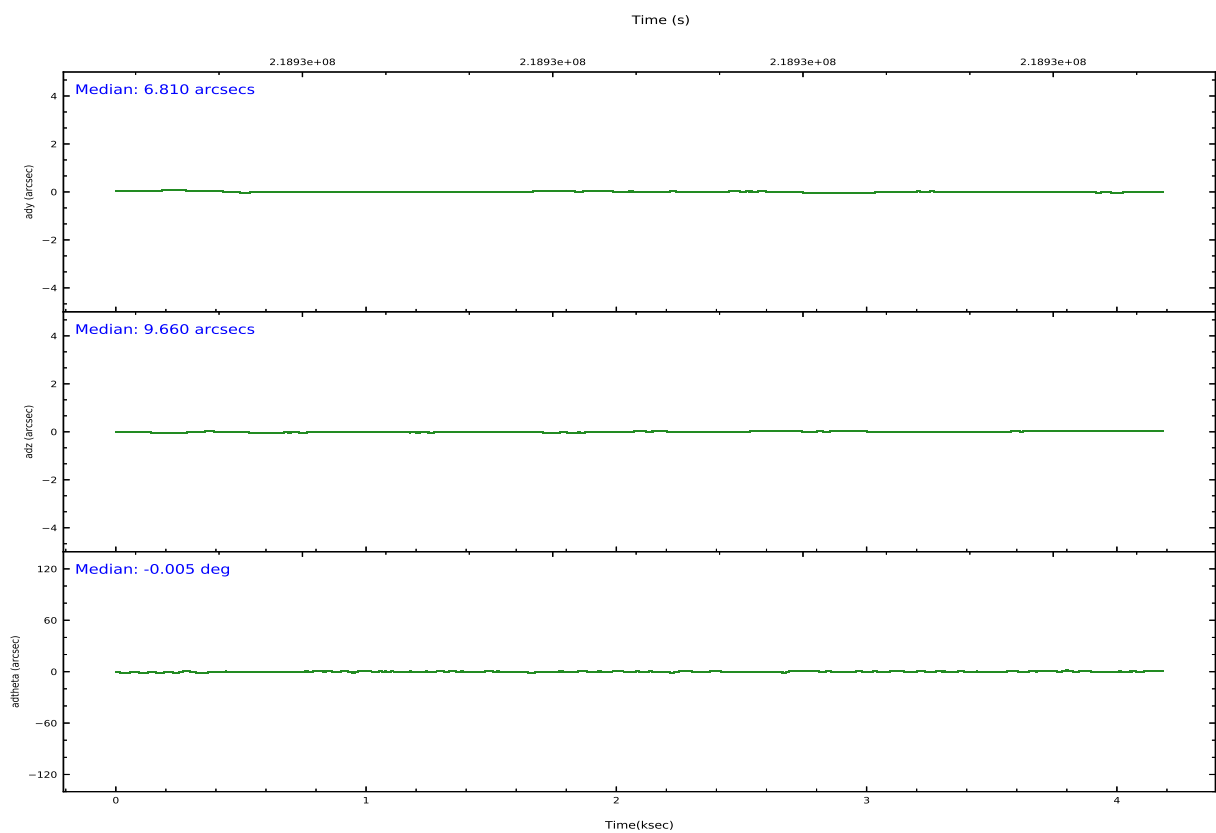
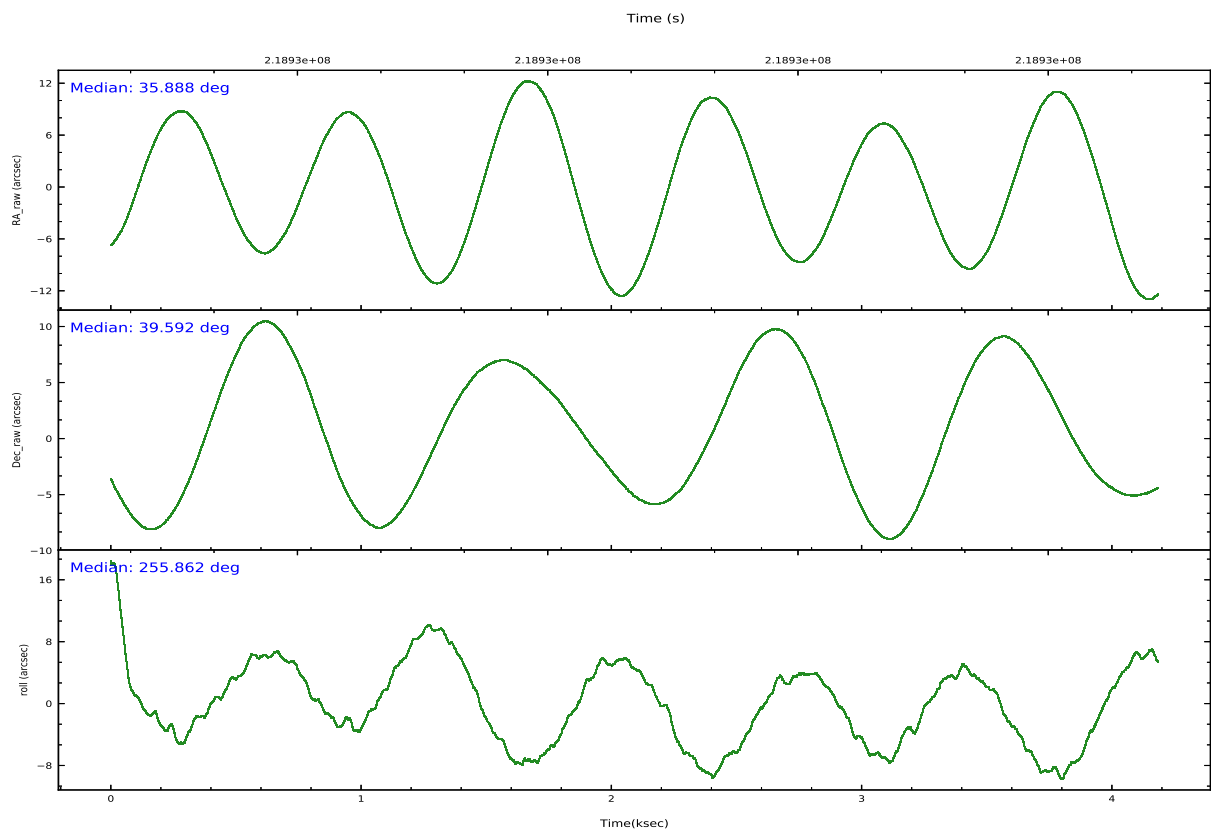


## 2.2 Compared Parameters

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	35.877635	35.884899081489	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	39.618468	39.594913537092	Subarray start row	449	449
[deg] Pointing Roll	255.715960	255.86158241521	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)	218925439.184000	218924898.42195			
Observation start date	2004-12-08T20:36:15	2004-12-08T20:28:18			
[s] Observation end time (MET)	218929439.184000	218930368.84719			
Observation end date	2004-12-08T21:42:55	2004-12-08T21:59:28			
Read mode	TIMED	TIMED			

## 2.3 Aspect



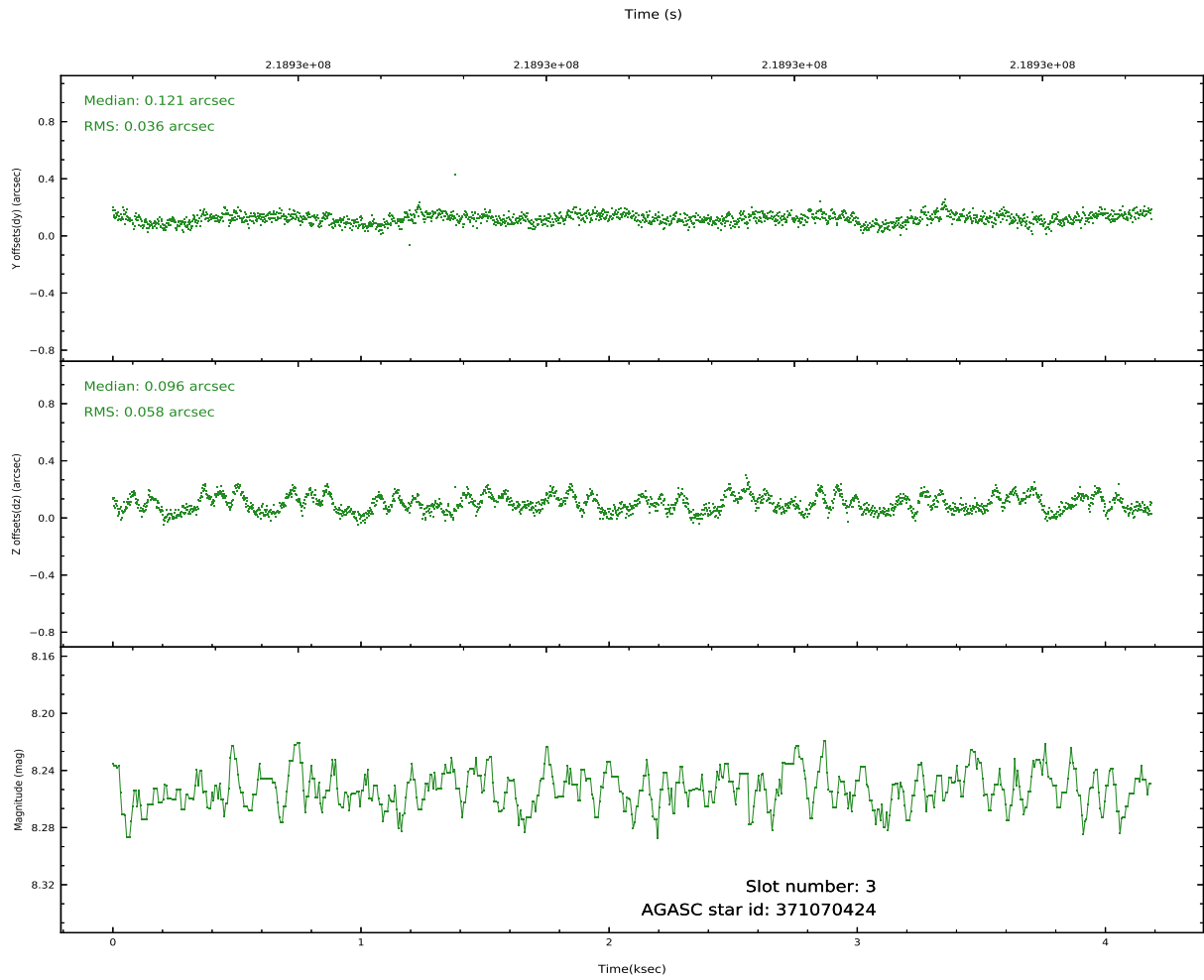
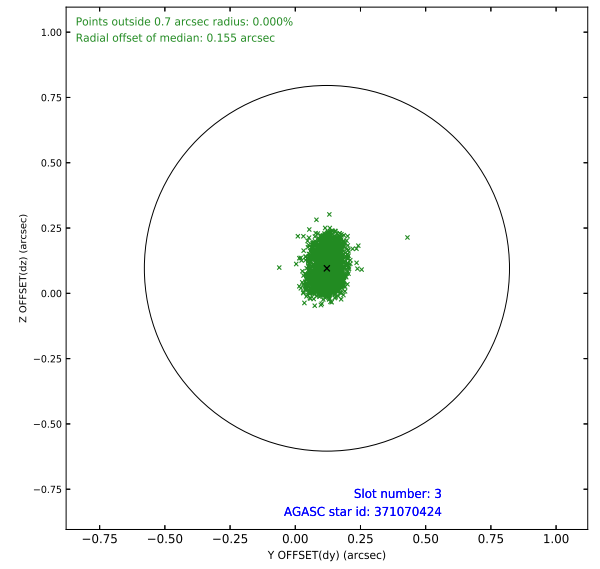
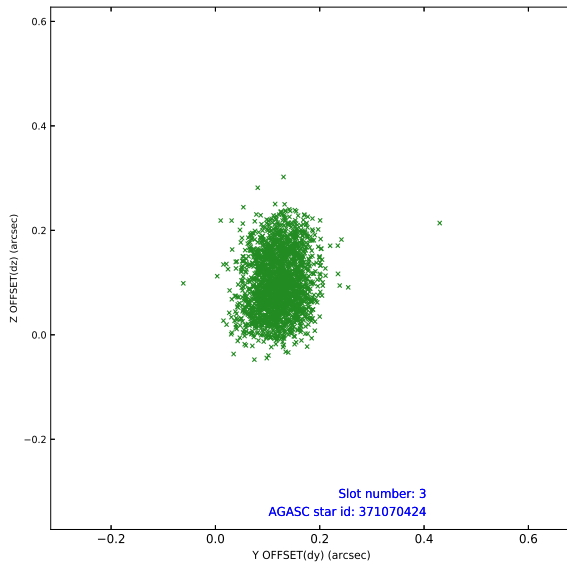


Slot Statistics

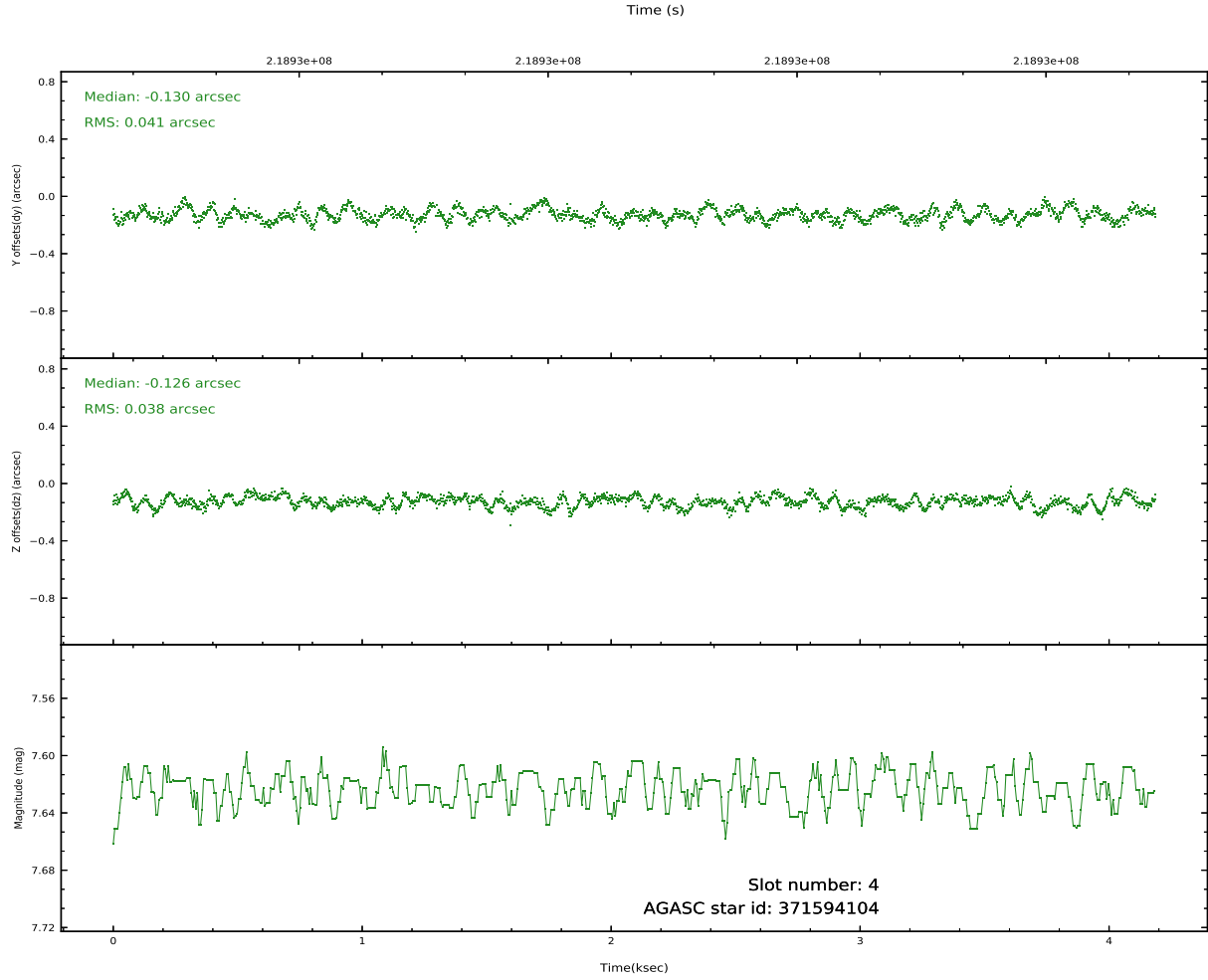
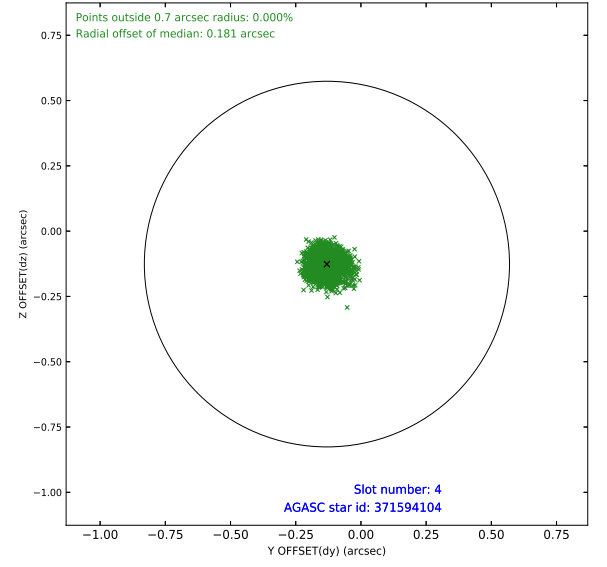
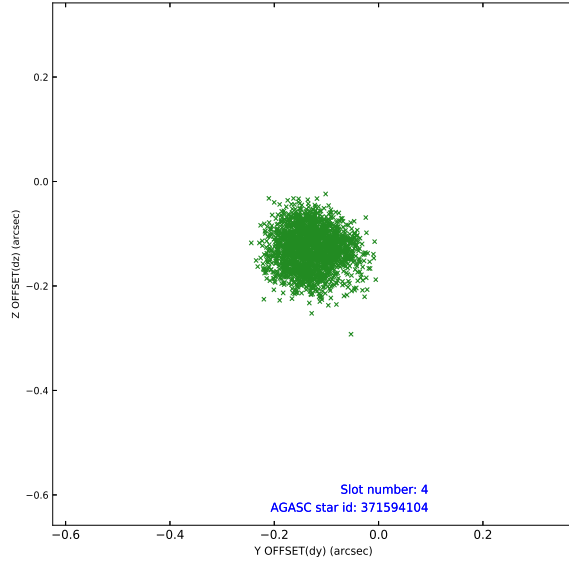
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	1021	1.000	0.051	-0.009	0.006	0.011	0.000000	0.000000	936.52	-1726
1	FID		ACIS-S-2	7.10	1021	1.000	-0.087	-0.057	0.006	0.010	0.000000	0.000000	-758.69	-1732
2	FID		ACIS-S-6	7.35	1021	1.000	0.016	0.071	0.006	0.010	0.000000	0.000000	401.48	813
3	GUIDE	used	371070424	8.25	2043	1.000	0.121	0.096	0.072	0.116	36.045116	39.346084	834.82	693
4	GUIDE	used	371594104	7.62	2043	1.000	-0.130	-0.126	0.060	0.092	36.042456	40.094603	-1773.08	17
5	GUIDE	used	371594248	9.52	2042	1.000	-0.185	0.025	0.122	0.195	35.187518	40.214691	-1619.72	-2370
6	GUIDE	used	371597424	9.40	2042	1.000	0.067	0.017	0.119	0.187	35.062640	39.779097	-14.39	-2331
7	GUIDE	used	371598736	9.30	2040	1.000	0.127	-0.022	0.107	0.167	35.666625	39.831984	-601.42	-756

## 2.4 Star Slots

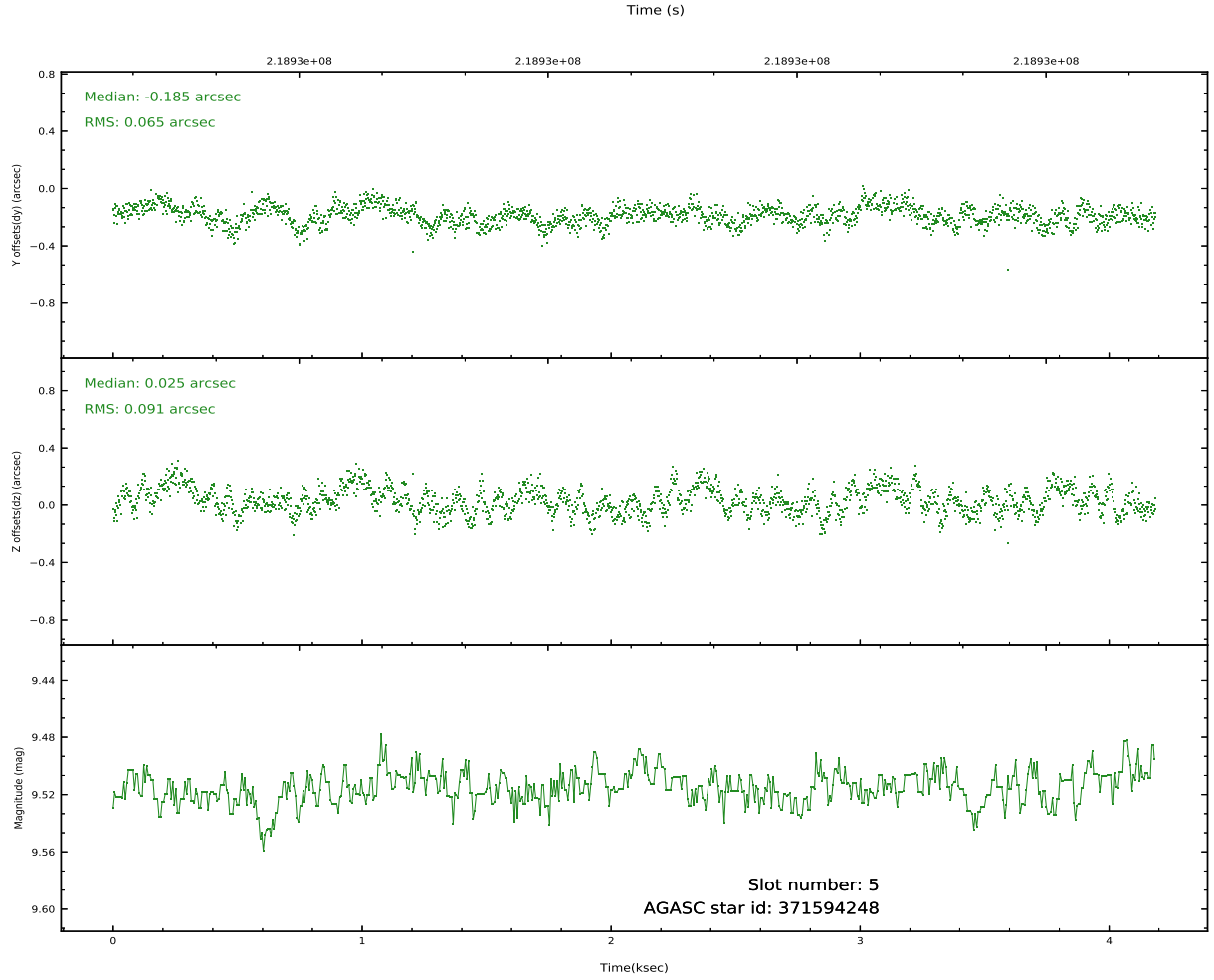
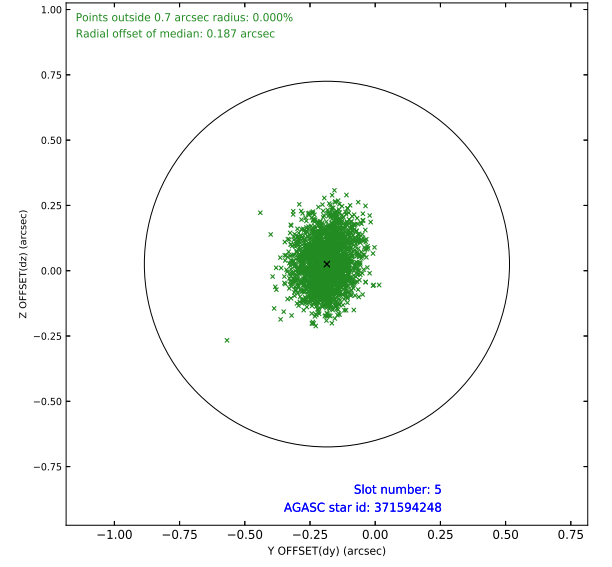
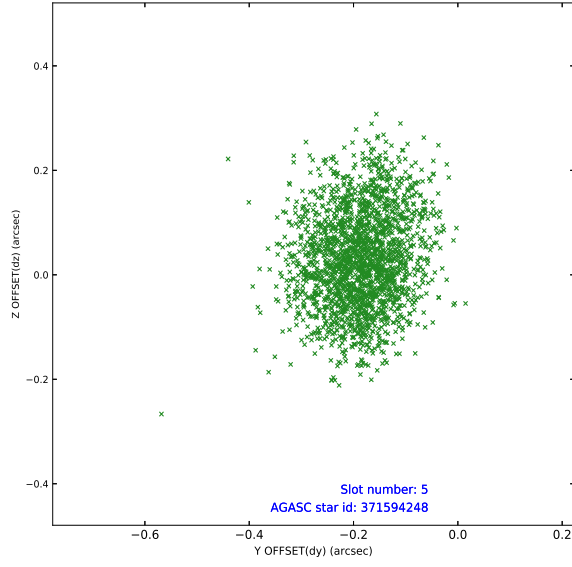
### 2.4.1 Slot 3



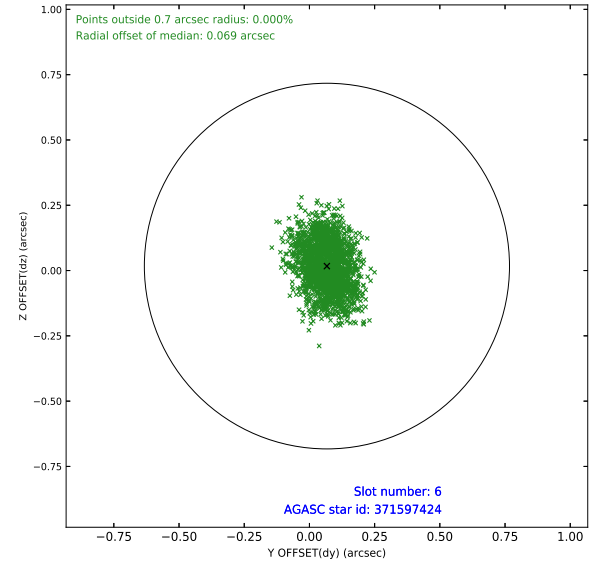
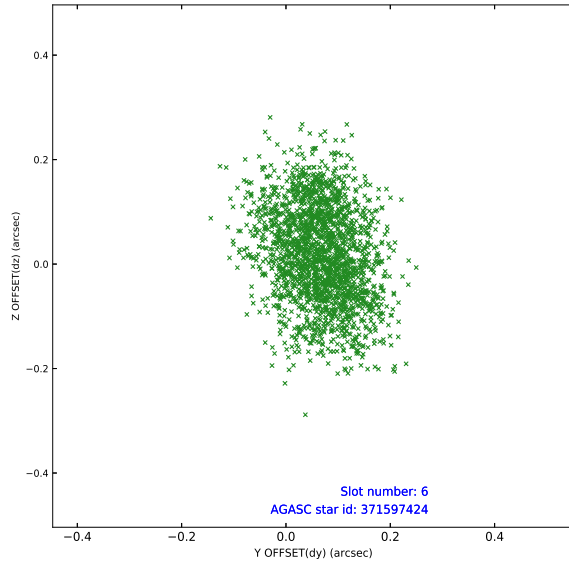
## 2.4.2 Slot 4



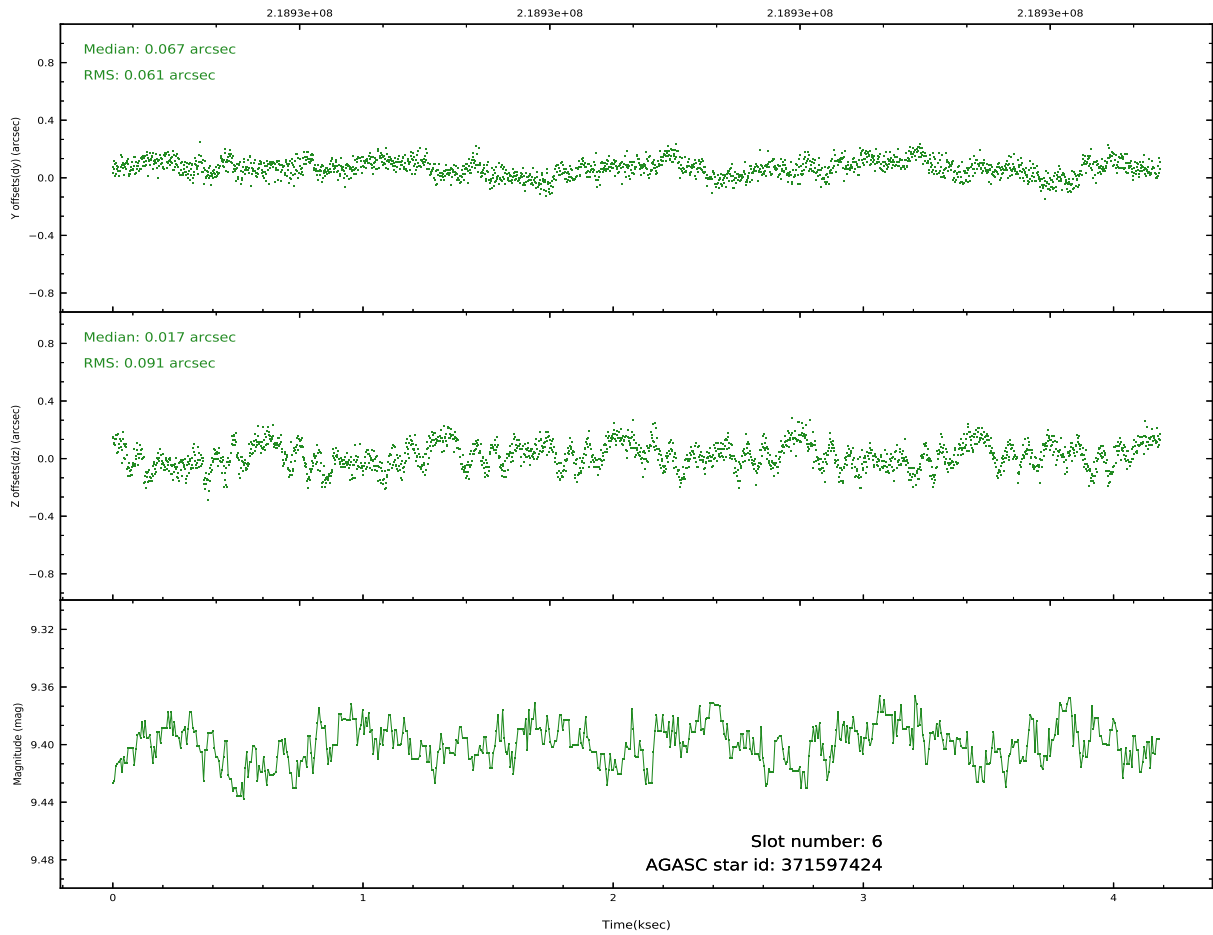
### 2.4.3 Slot 5



## 2.4.4 Slot 6

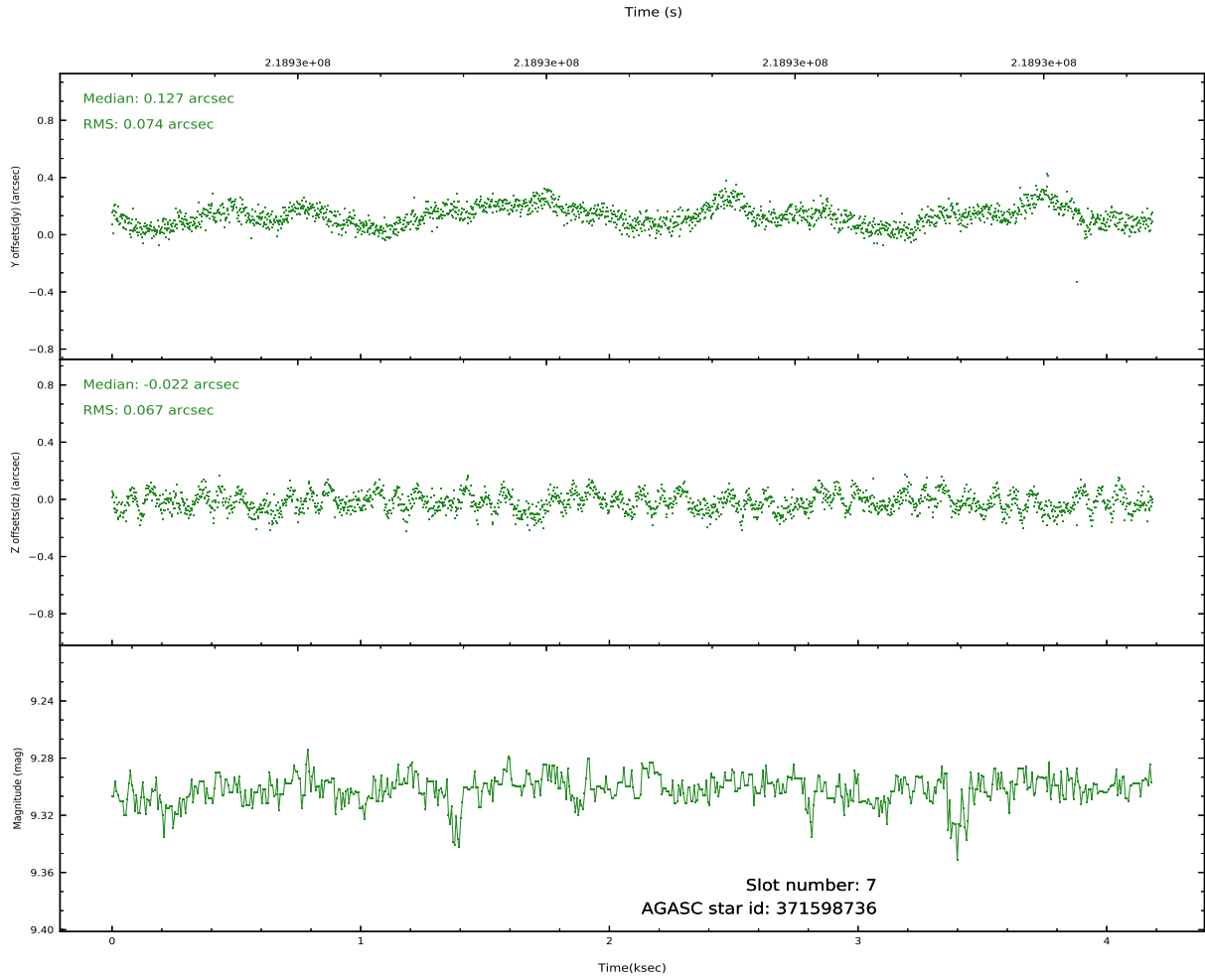
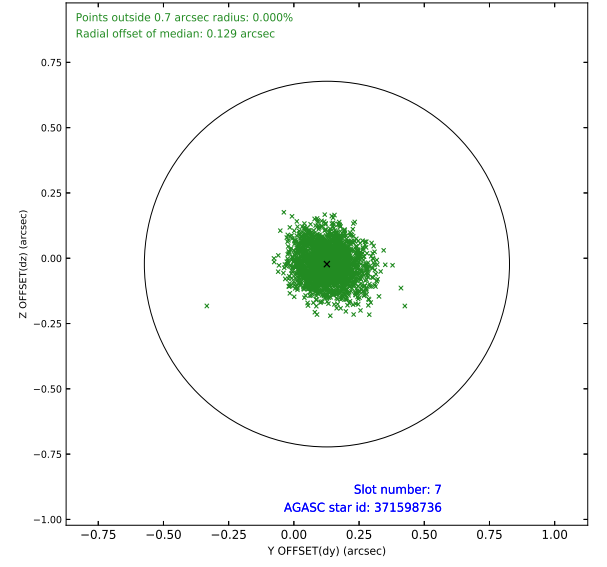
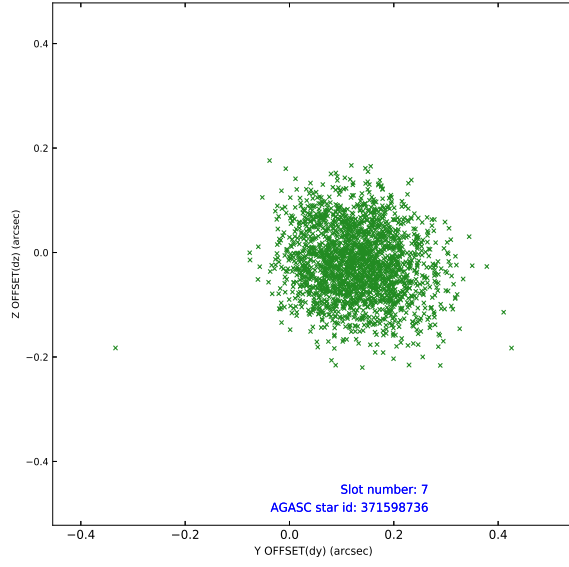


Time (s)



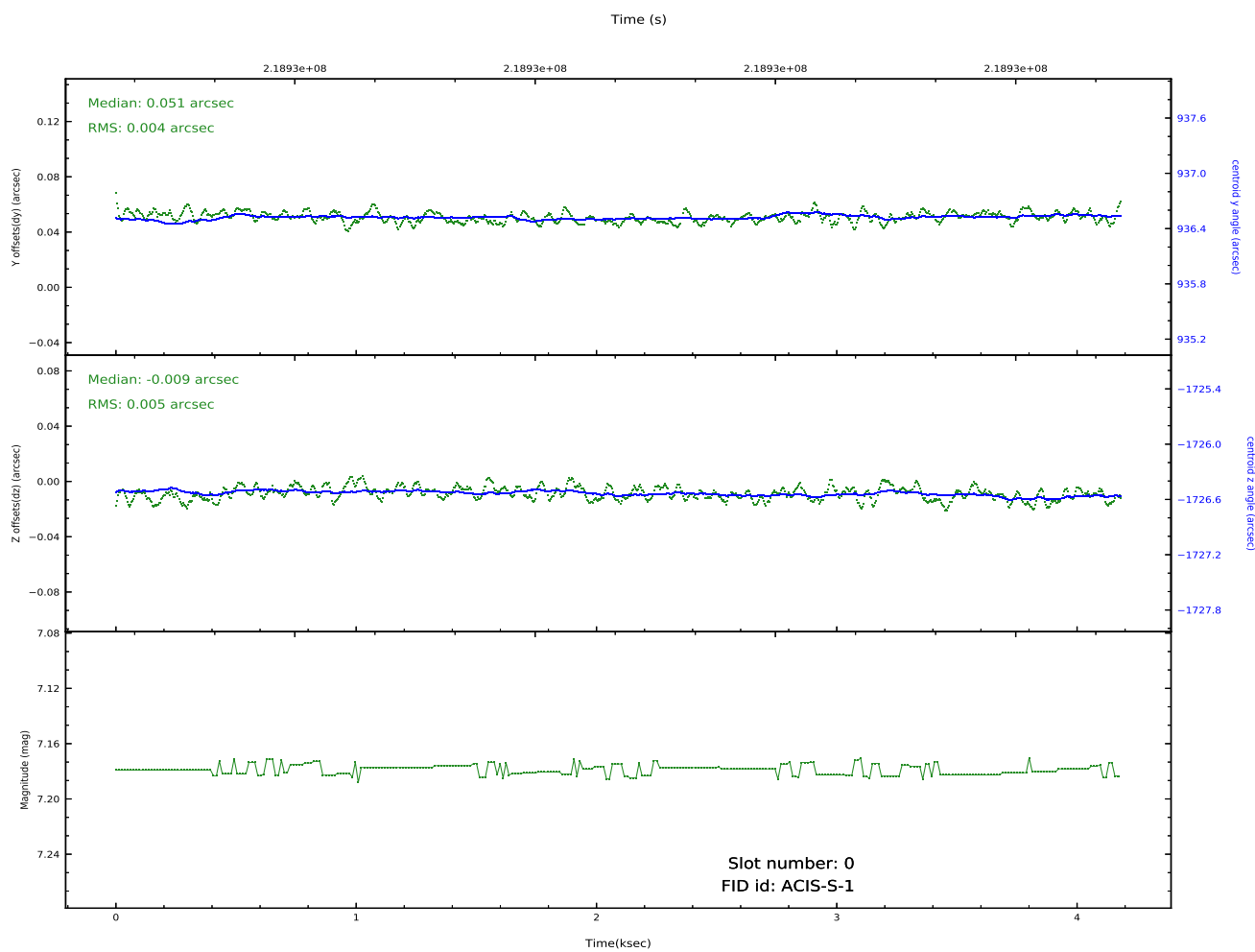
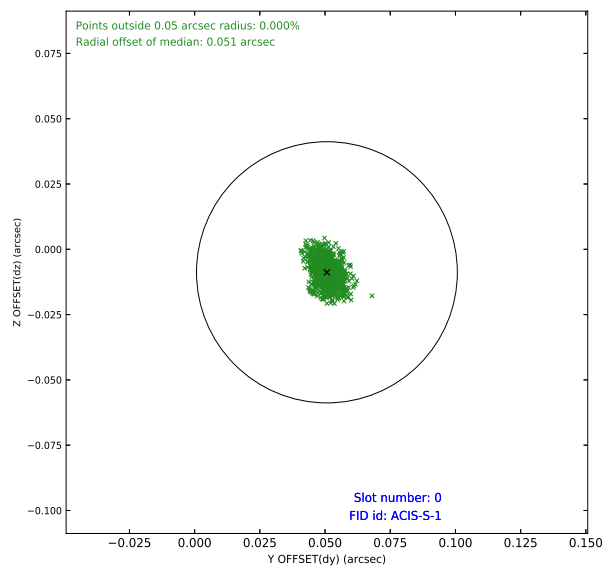
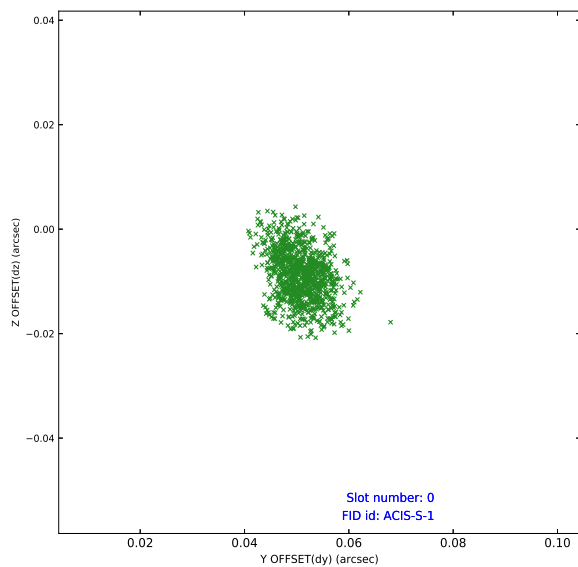


## 2.4.5 Slot 7

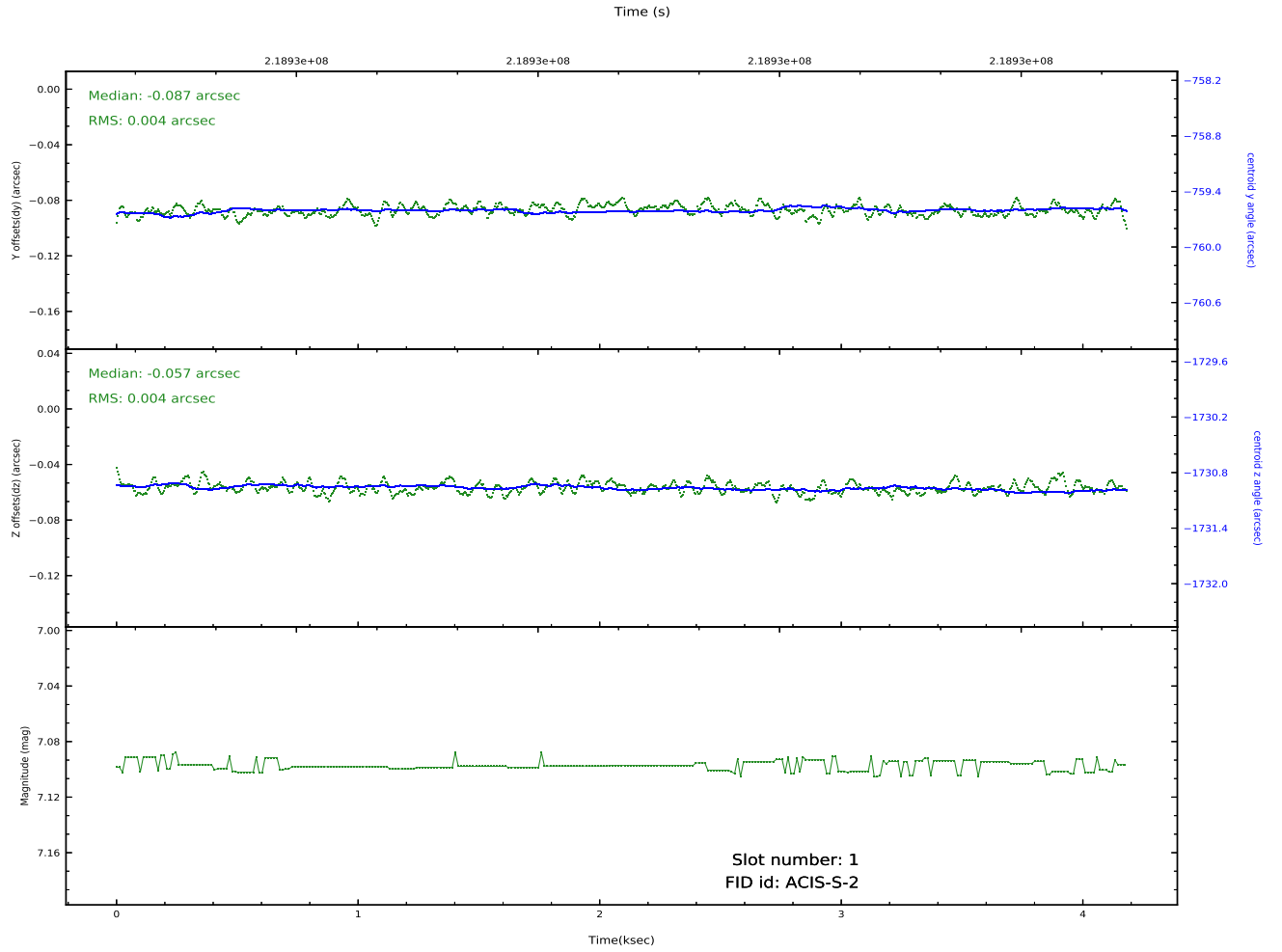
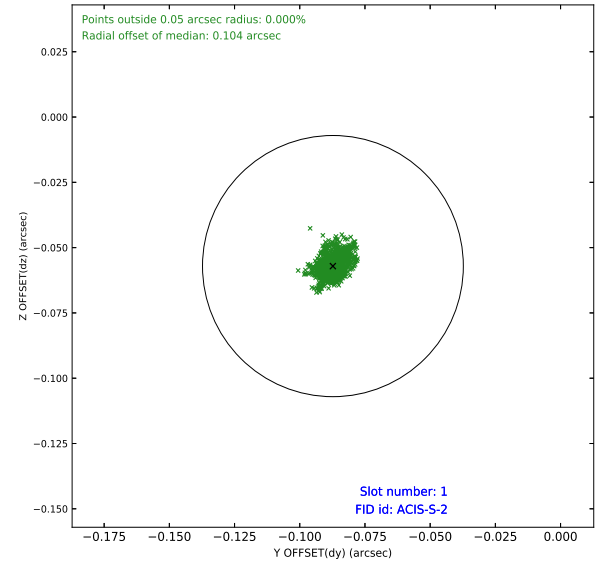
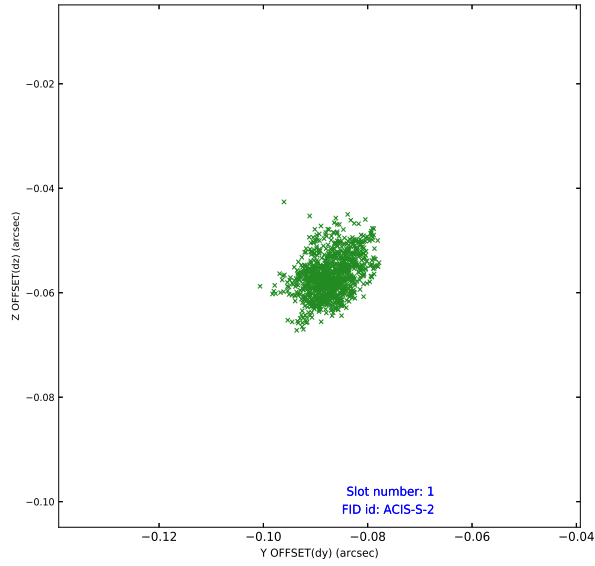


## 2.5 FID Slots

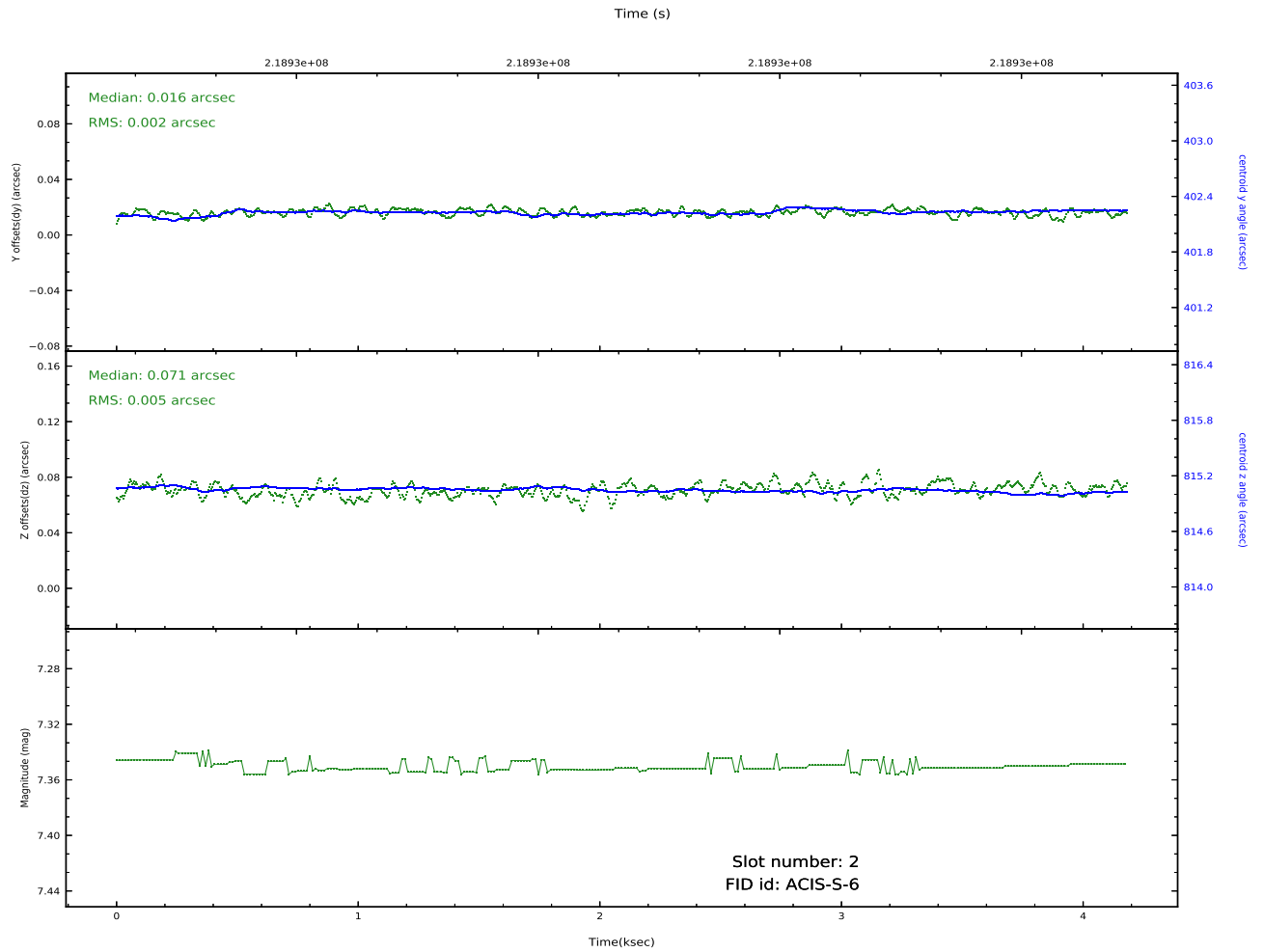
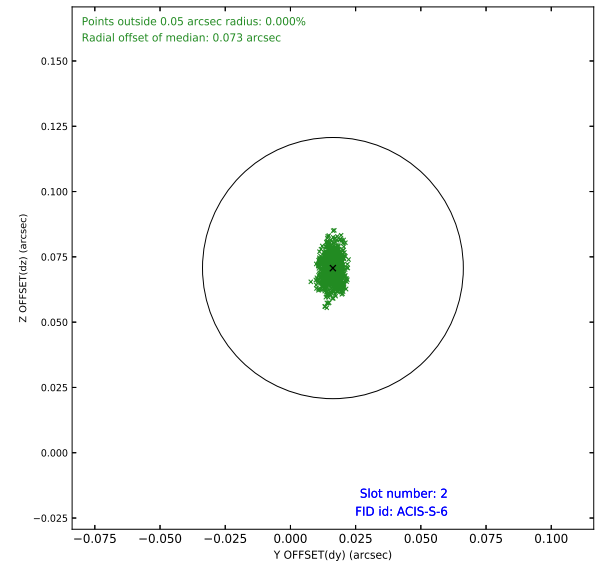
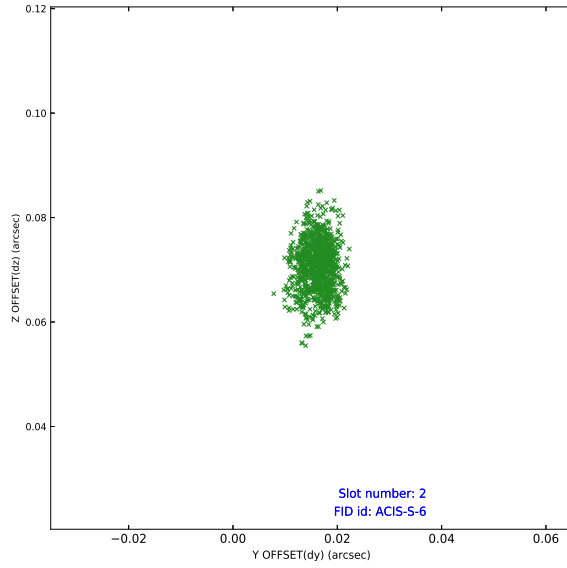
### 2.5.1 Slot 0



## 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)	2020.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.0184

## A.2 Comments

Joint Proposal: NRAO