

# V&V Reference Report

## L2 ASCDS Version : 10.8.4

Observation 23266 - L2 Version 1  
Chandra X-Ray Center

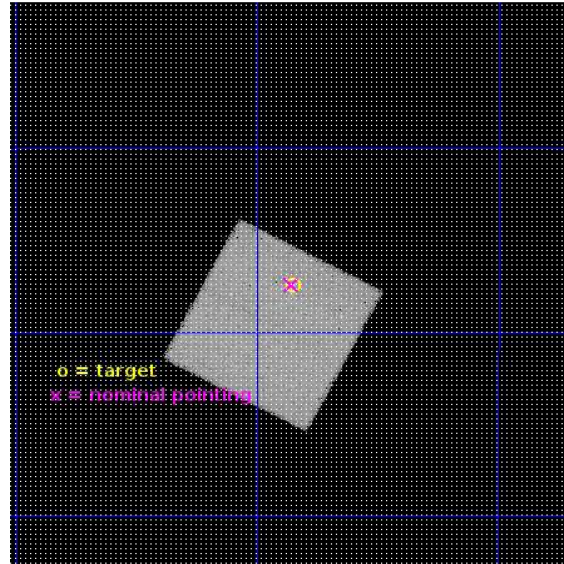
L2 Processing Date : Jun 5 2020

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# 1 Front

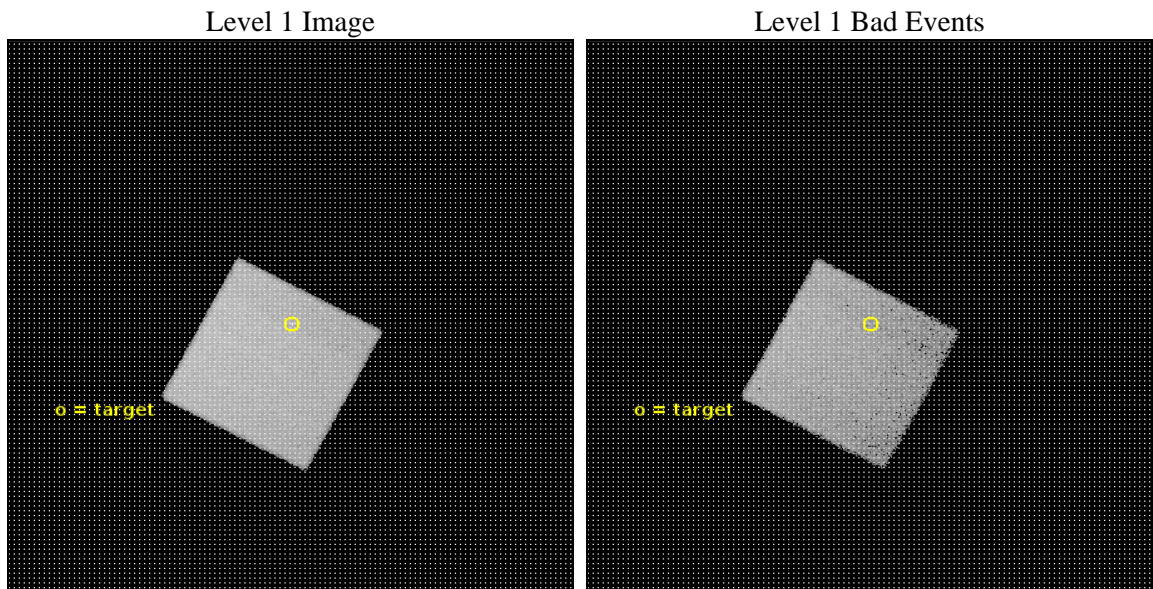
seq_num	402197	Sequence number
obs_id	23266	Observation id
title	Get to the Chopper!!! - Testing the Propeller Nature of the Off-States in the ULX Pulsar NGC7793 P13	Proposal title
observer	Dominic Walton	Principal investigator
object	NGC7793 P13	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	359.4625	Observer's specified target RA [deg]
dec_targ	-32.624056	Observer's specified target Dec [deg]
ra_nom	359.464377542	Nominal RA [deg]
dec_nom	-32.623956316	Nominal Dec [deg]
roll_nom	117.780713043	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30092.836783767	Sum of GTIs [s]
livetime	29686.722421047	Livetime [s]
ontime7	30092.836783767	Sum of GTIs [s]
l2events	125863	Number of level 2 events



## 2 OBI

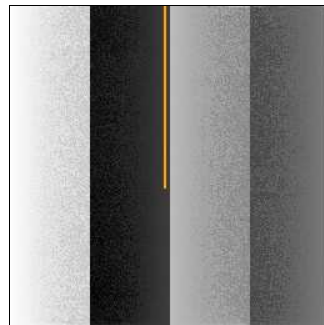
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.4	Processing system revision	ontime	30092.836783767	Sum of GTIs [s]
caldbver	4.9.1	&#160	ontime7	30092.836783767	Sum of GTIs [s]
date	2020-06-05T12:18:10	Date and time of file creation	l1events	296609	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

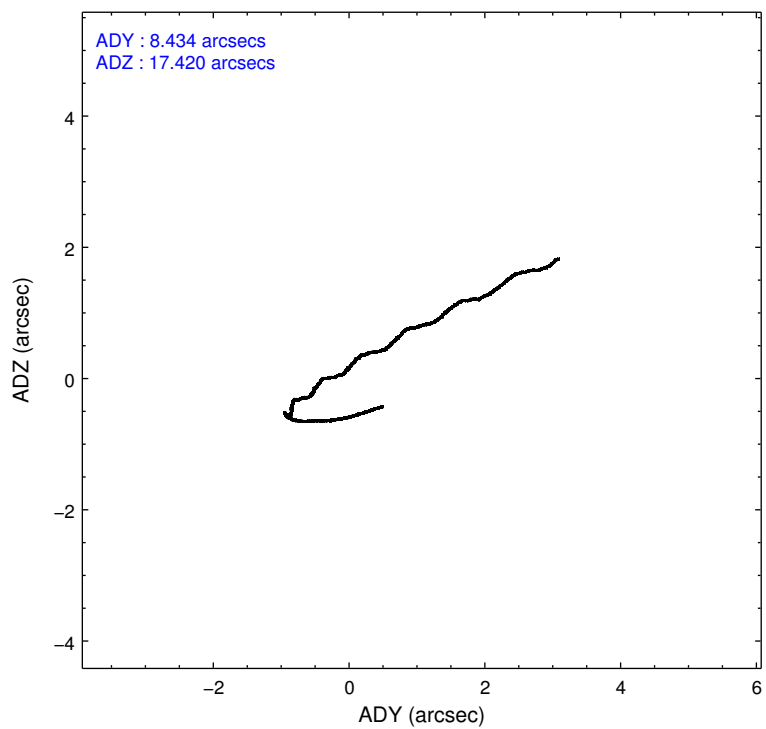
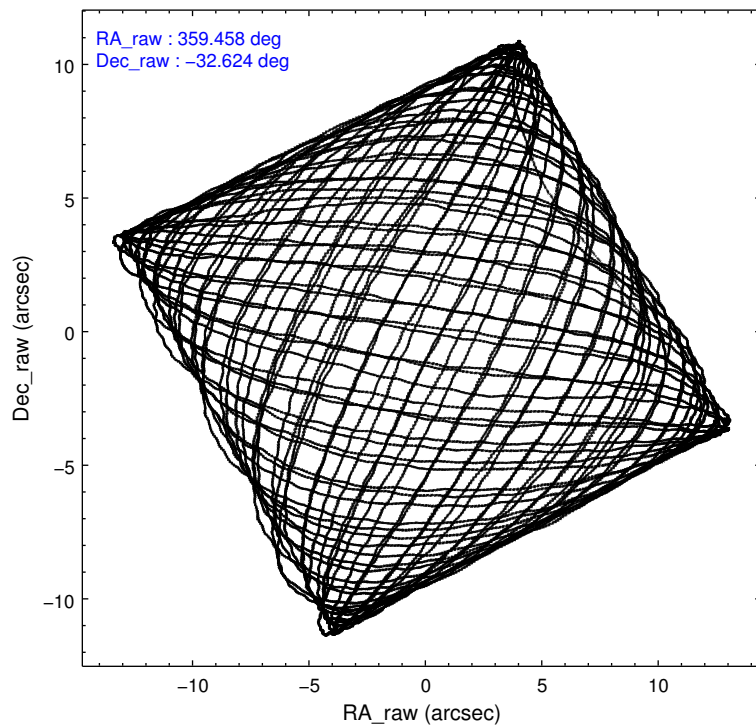
	<b>ccd 7</b>
level 1 events	296609
rejected events	166653
rejected %	<b>56%</b>

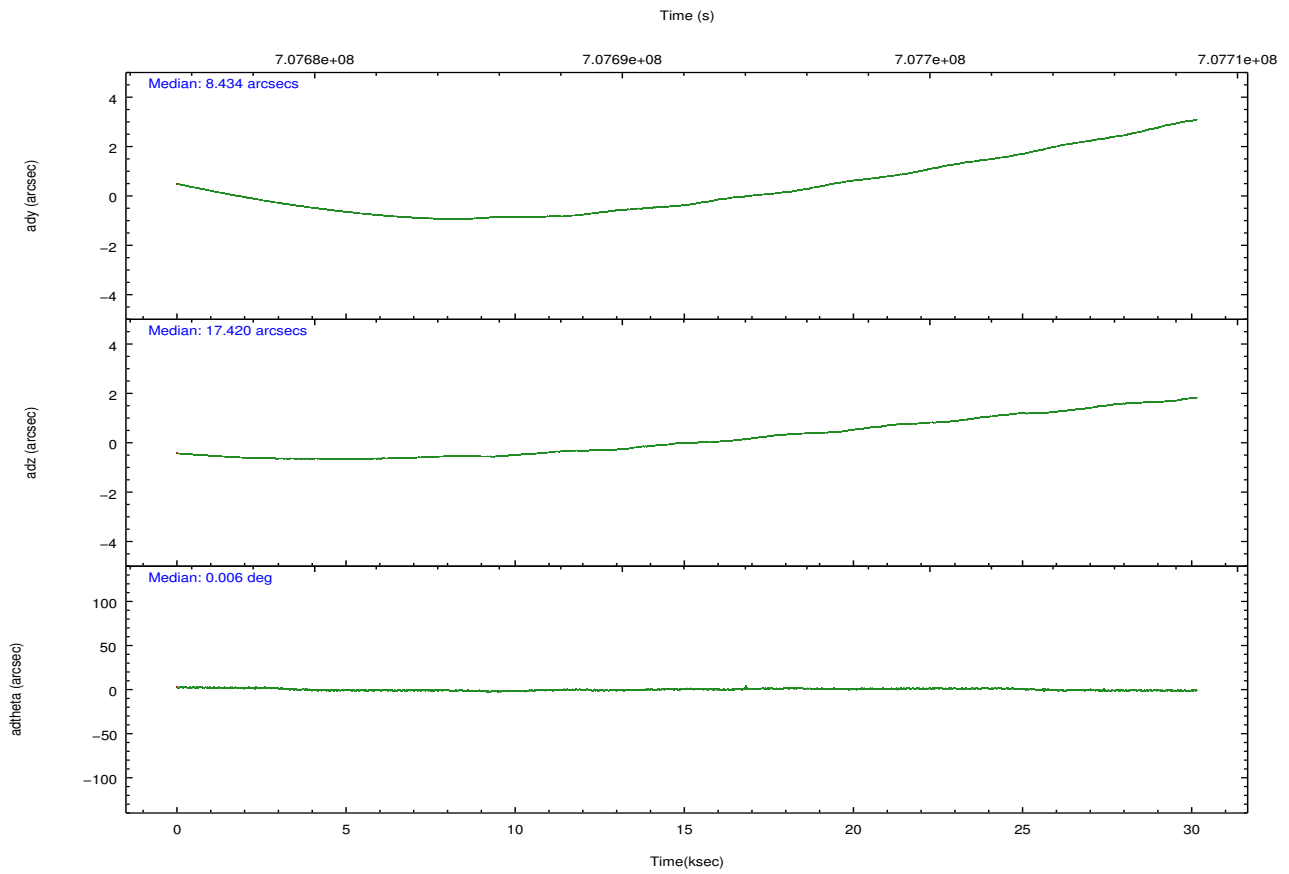
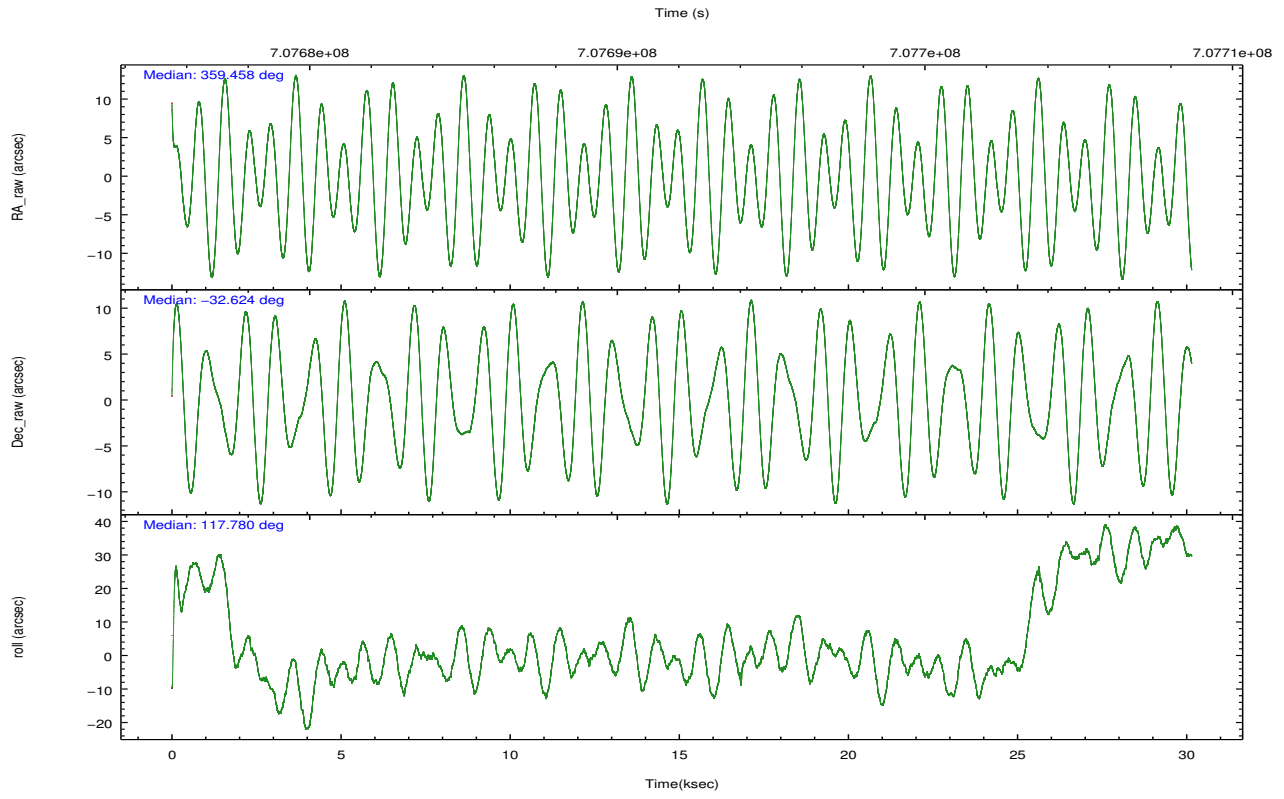
	<b>ccd 7</b>
grade 0 events	10812
	3%
grade 1 events	444
	0%
grade 2 events	27993
	9%
grade 3 events	9983
	3%
grade 4 events	9982
	3%
grade 5 events	28742
	9%
grade 6 events	71207
	24%
grade 7 events	137446
	46%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	359.485408	359.464377542	Subarray requested	NONE	NONE
[deg] Pointing Dec	-32.638403	-32.623956316	Alternating exposures requested	N	N
[deg] Pointing Roll	117.644352	117.780713043	[s] Primary exposure time	0.000000	3
[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)	707677144.184000	707676040.6684099			
Observation start date	2020-06-04T16:57:55	2020-06-04T16:40:40			
[s] Observation end time (MET)	707707144.184000	707708004.78286			
Observation end date	2020-06-05T01:17:55	2020-06-05T01:33:24			
Read mode	TIMED	TIMED			

## 2.3 Aspect





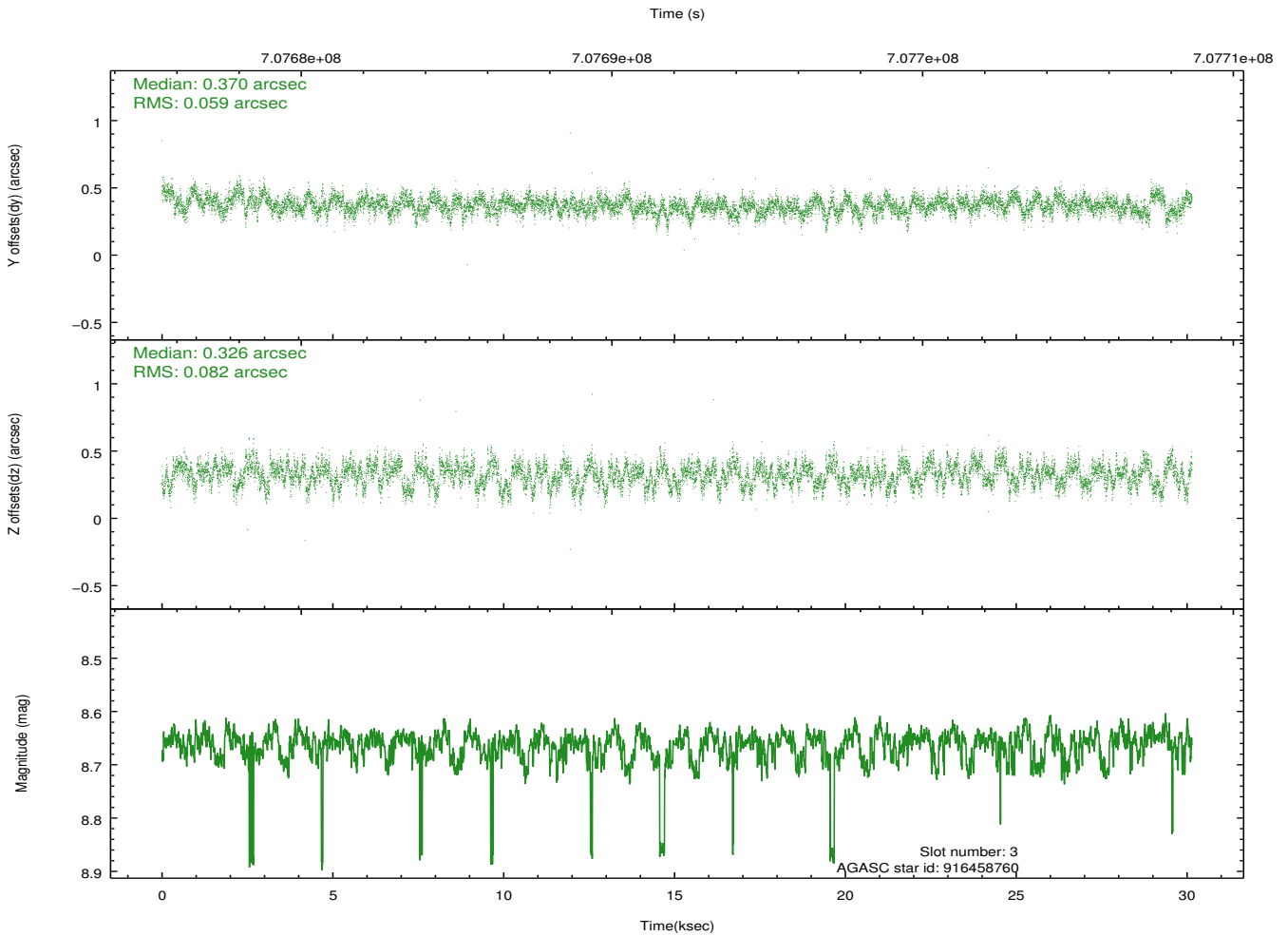
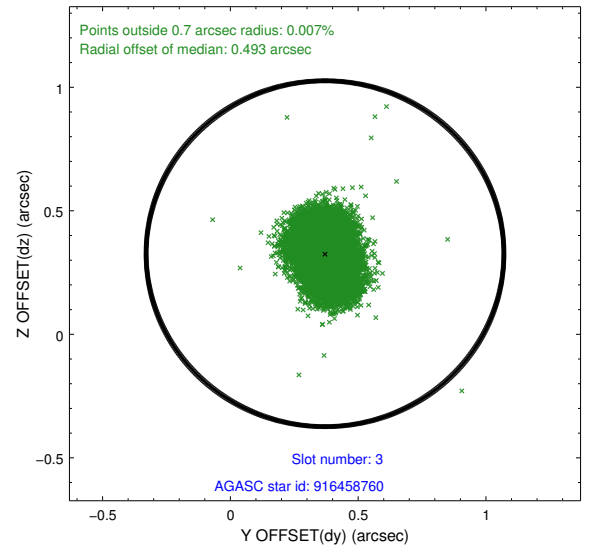
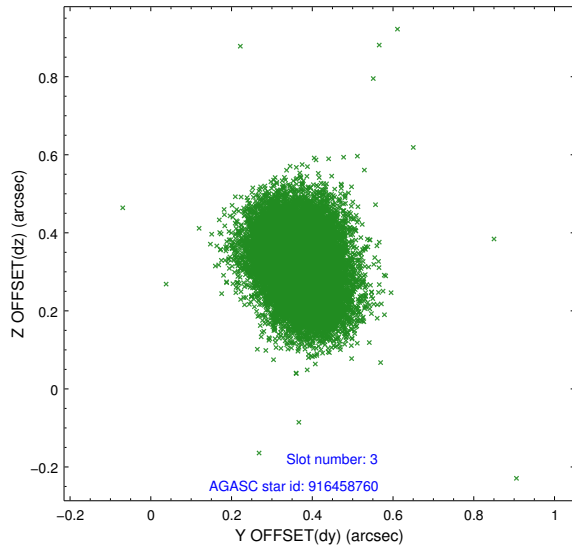
### Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-3	7.31	7354	1.000	0.153	-0.211	0.025	0.036	0.000000	0.000000	51.46	-1868
1	FID		ACIS-S-4	7.19	7353	1.000	0.137	0.024	0.021	0.031	0.000000	0.000000	2151.93	168
2	FID		ACIS-S-5	7.18	7353	1.000	-0.320	0.198	0.027	0.037	0.000000	0.000000	-1814.63	163
3	GUIDE	used	916458760	8.66	14688	1.000	0.370	0.326	0.107	0.174	0.208450	-32.735965	-1333.23	-1772
4	GUIDE	used	985137968	8.99	14682	1.000	-0.210	-0.244	0.166	0.251	358.620671	-32.471818	1739.28	2052
5	GUIDE	used	985140880	9.82	14489	1.000	-0.193	-0.110	0.222	0.368	358.983712	-32.099667	2425.05	457
6	GUIDE	used	985533536	7.18	14706	1.000	-0.076	-0.041	0.118	0.207	359.409808	-33.189108	-1650.83	1120
7	GUIDE	used	985538384	9.26	14694	1.000	0.108	0.086	0.165	0.278	359.535631	-33.132150	-1644.72	690

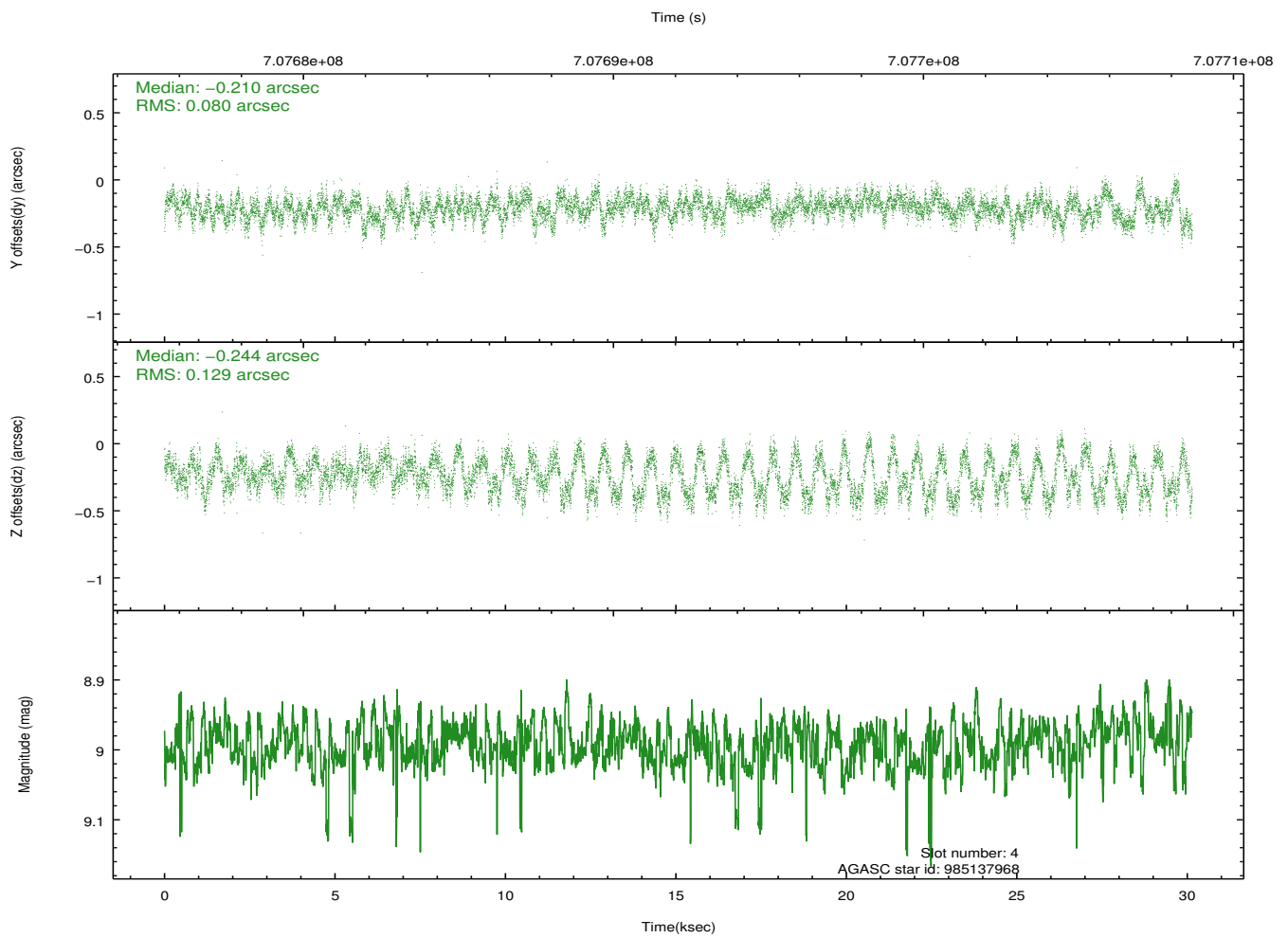
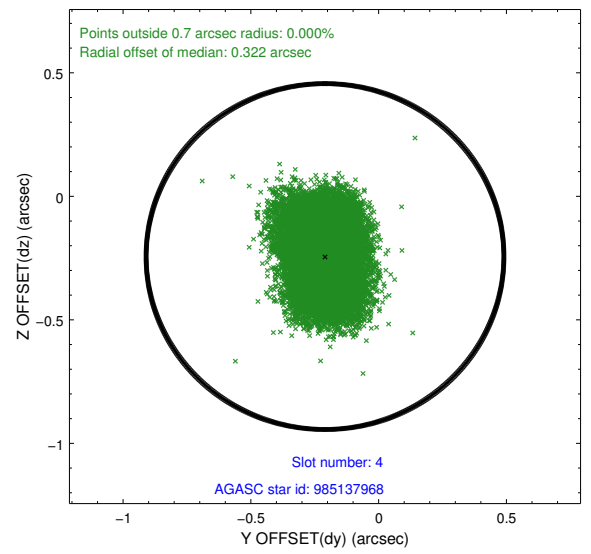
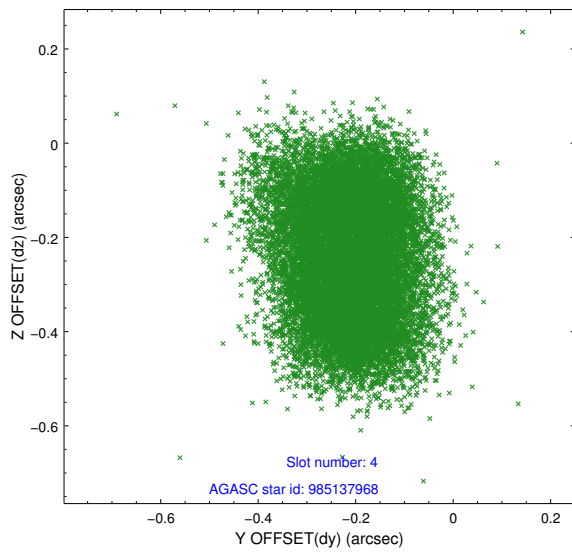
∞

## 2.4 Star Slots

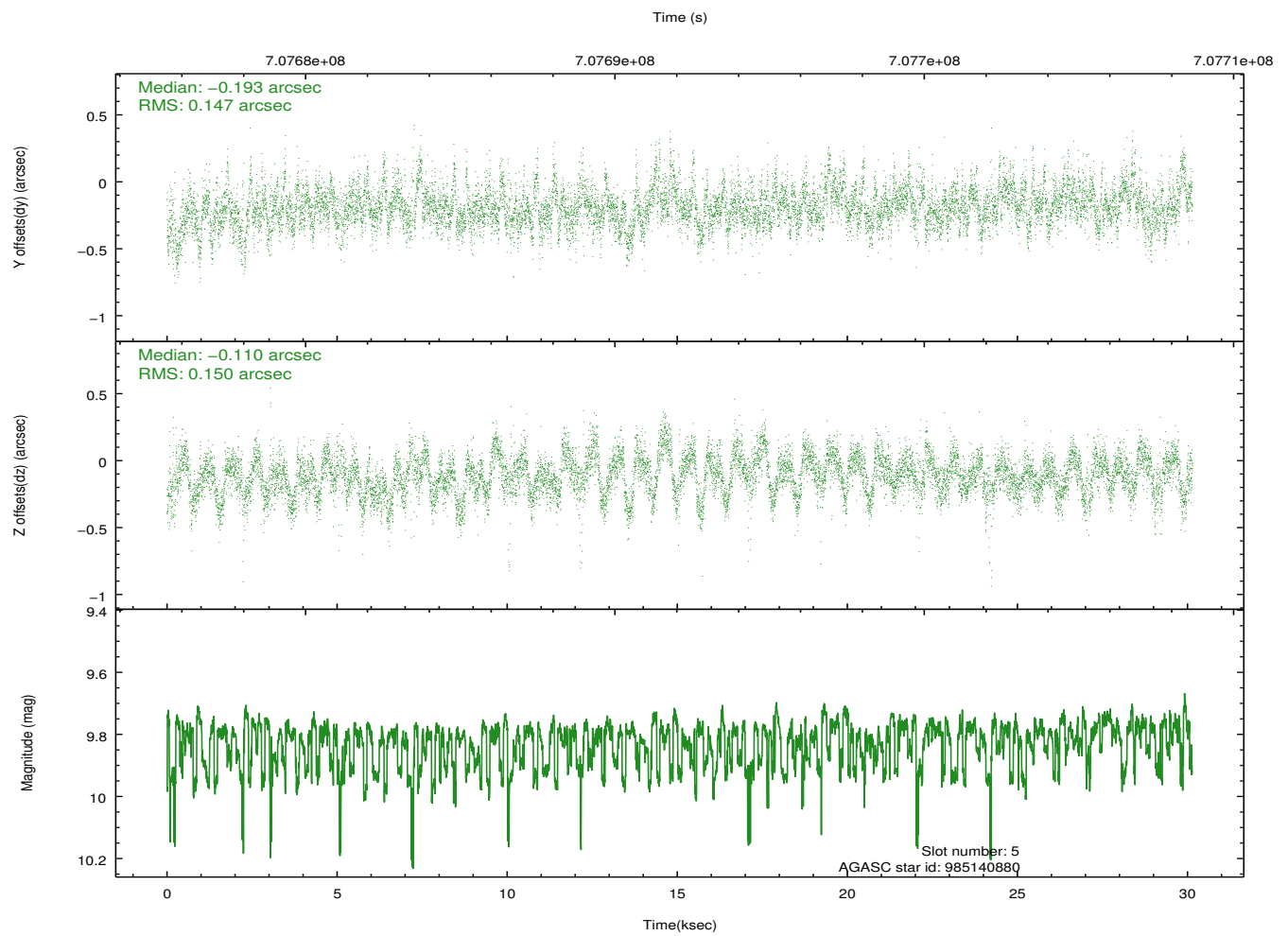
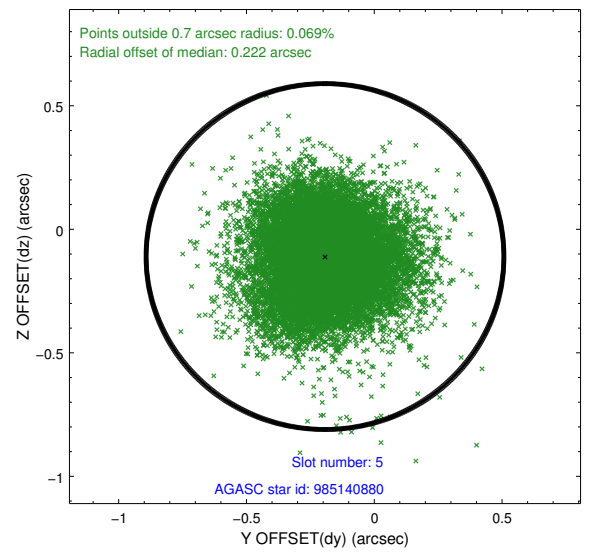
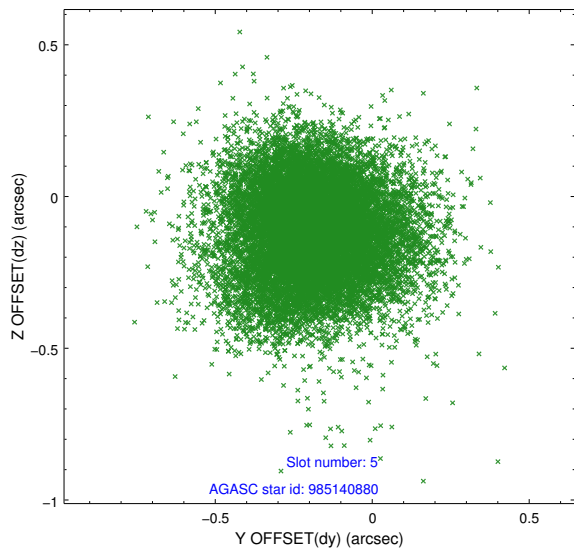
### 2.4.1 Slot 3



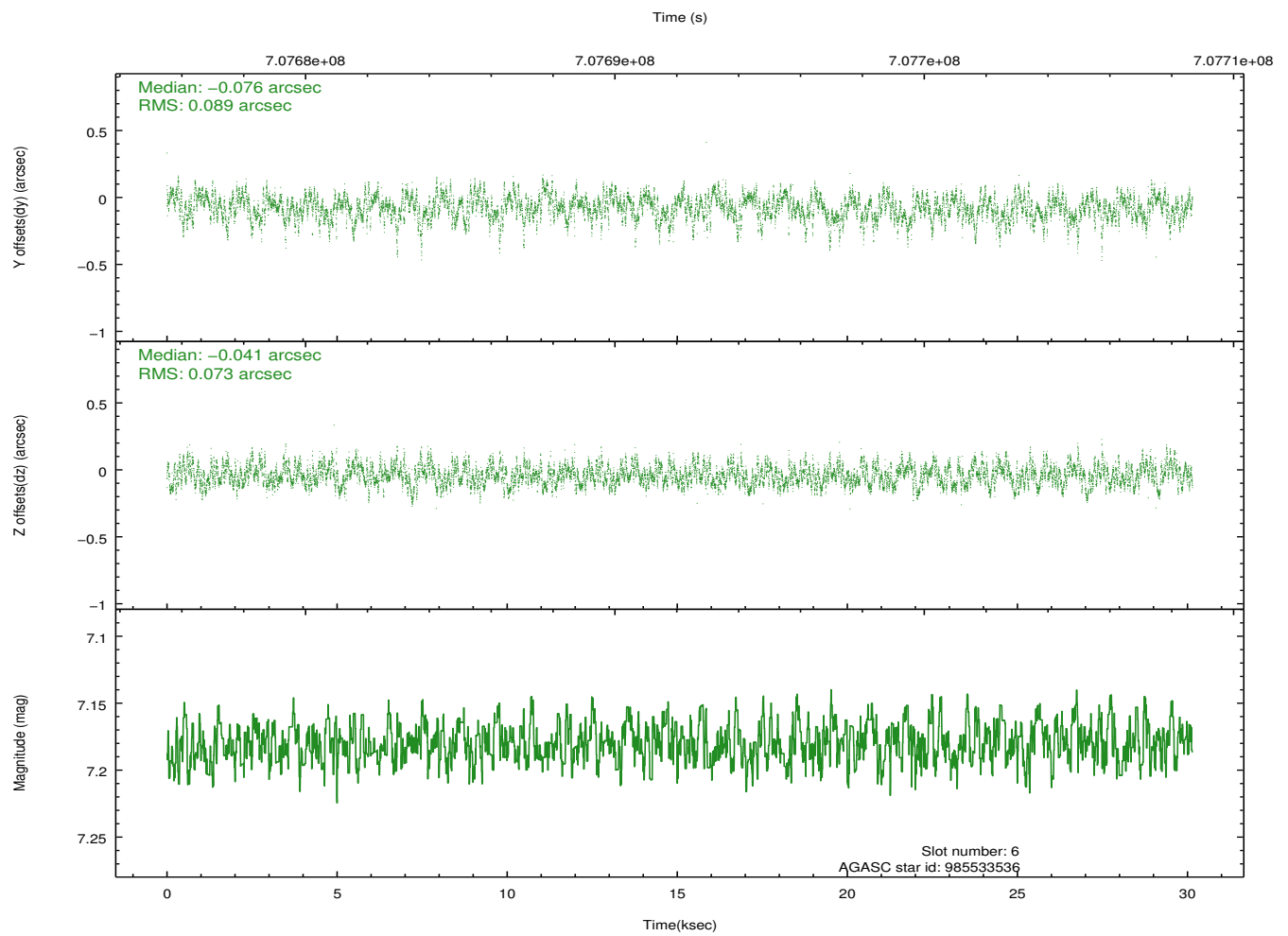
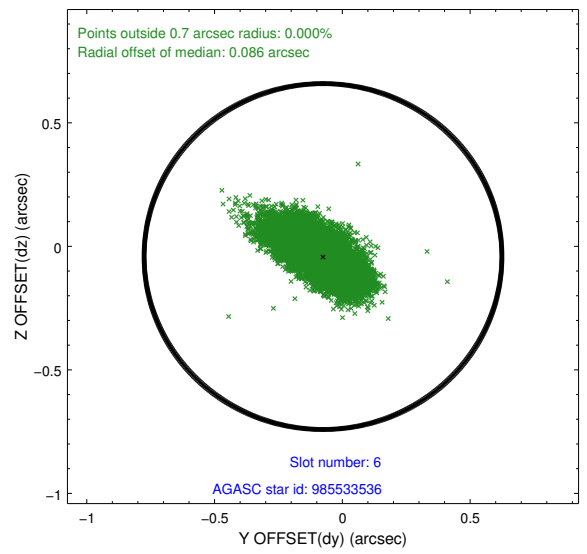
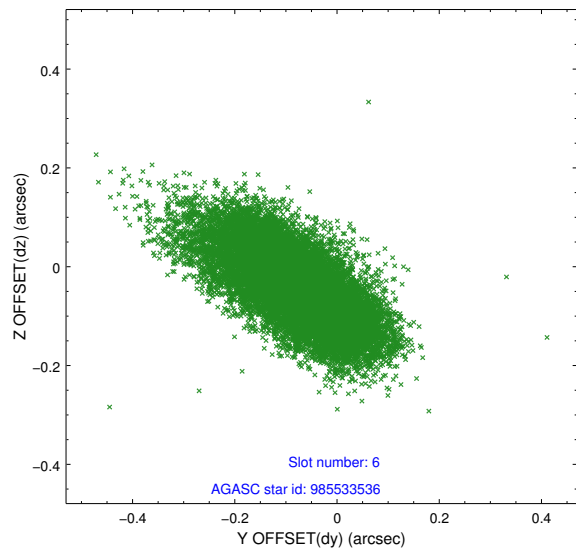
## 2.4.2 Slot 4



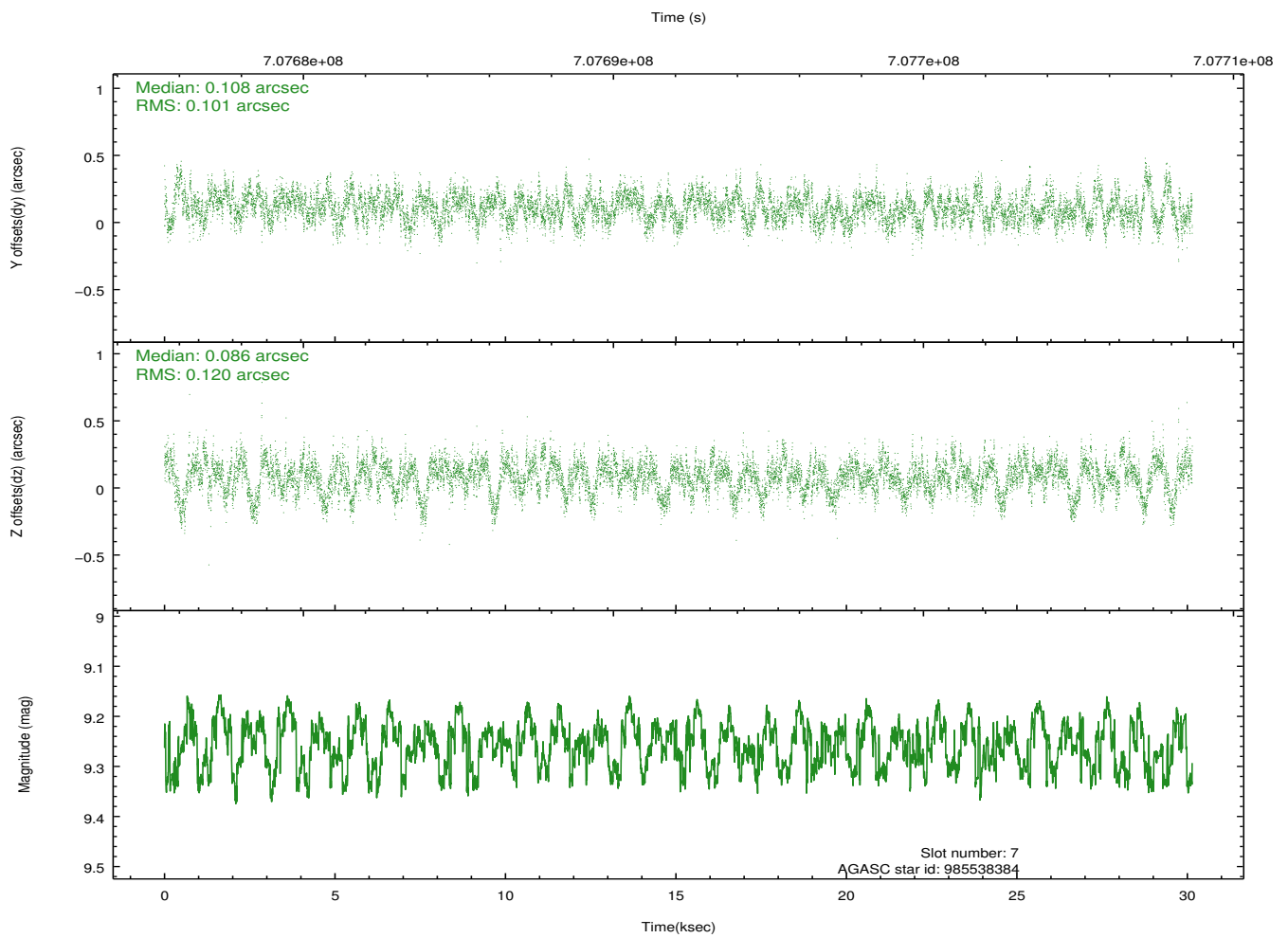
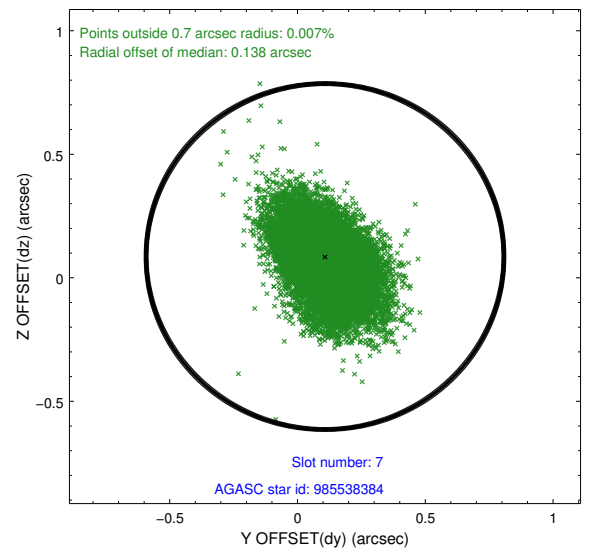
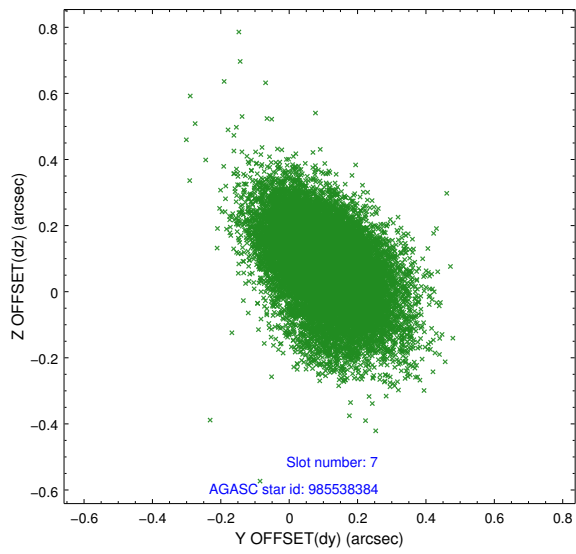
### 2.4.3 Slot 5



## 2.4.4 Slot 6

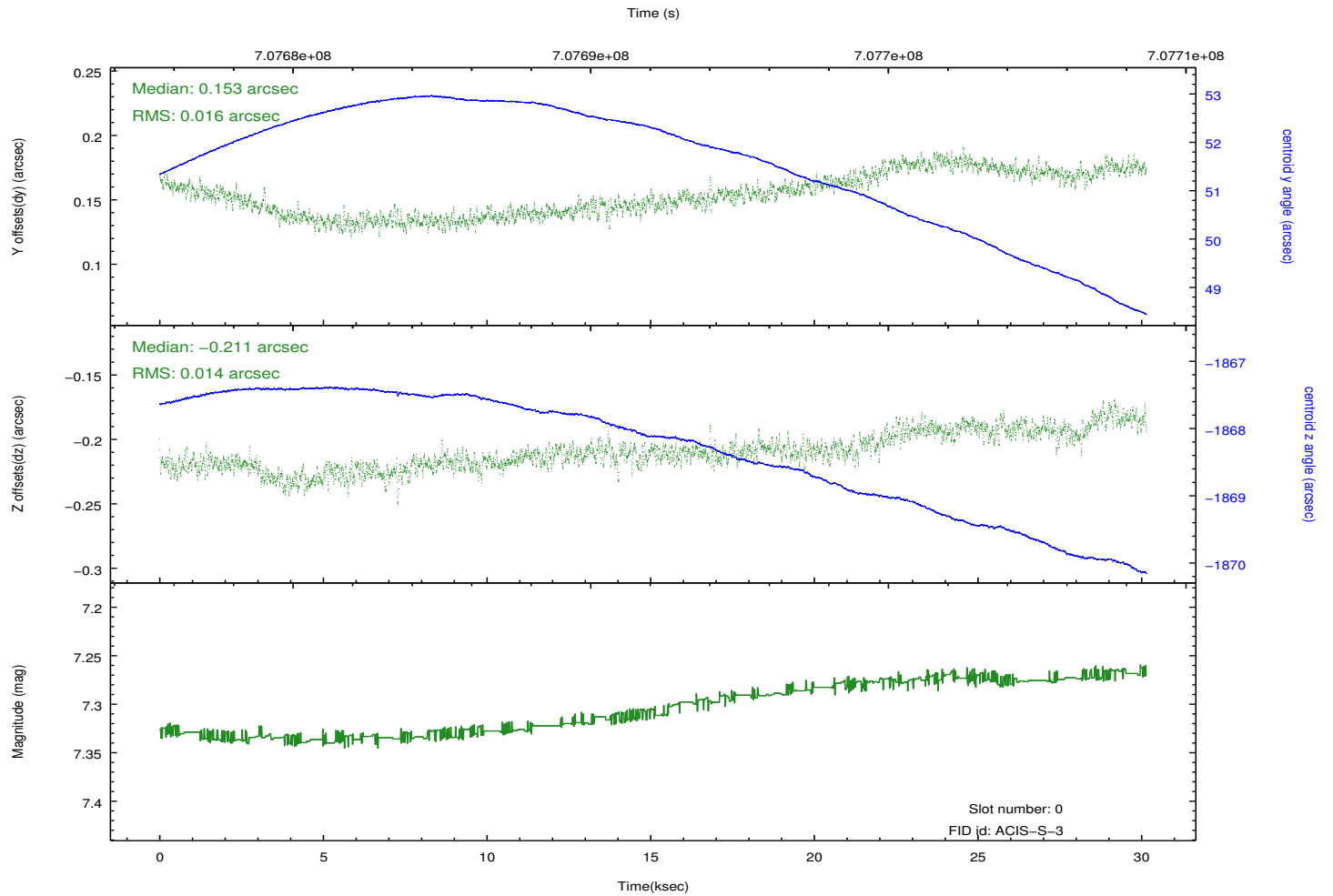
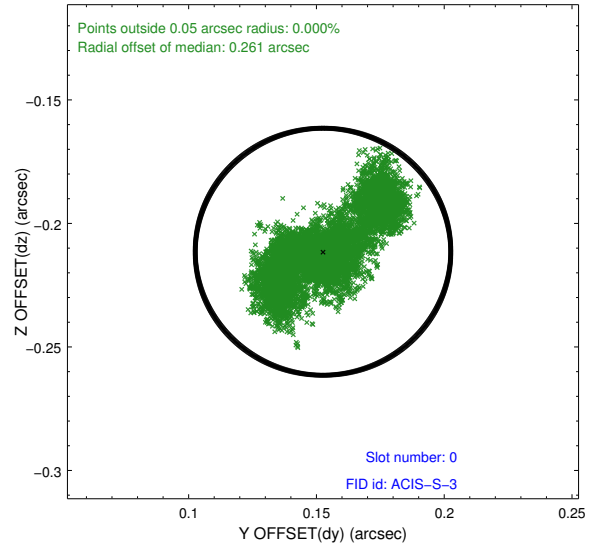
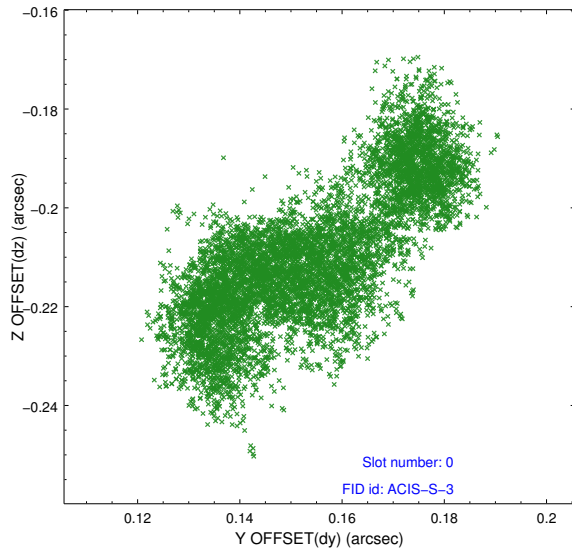


## 2.4.5 Slot 7

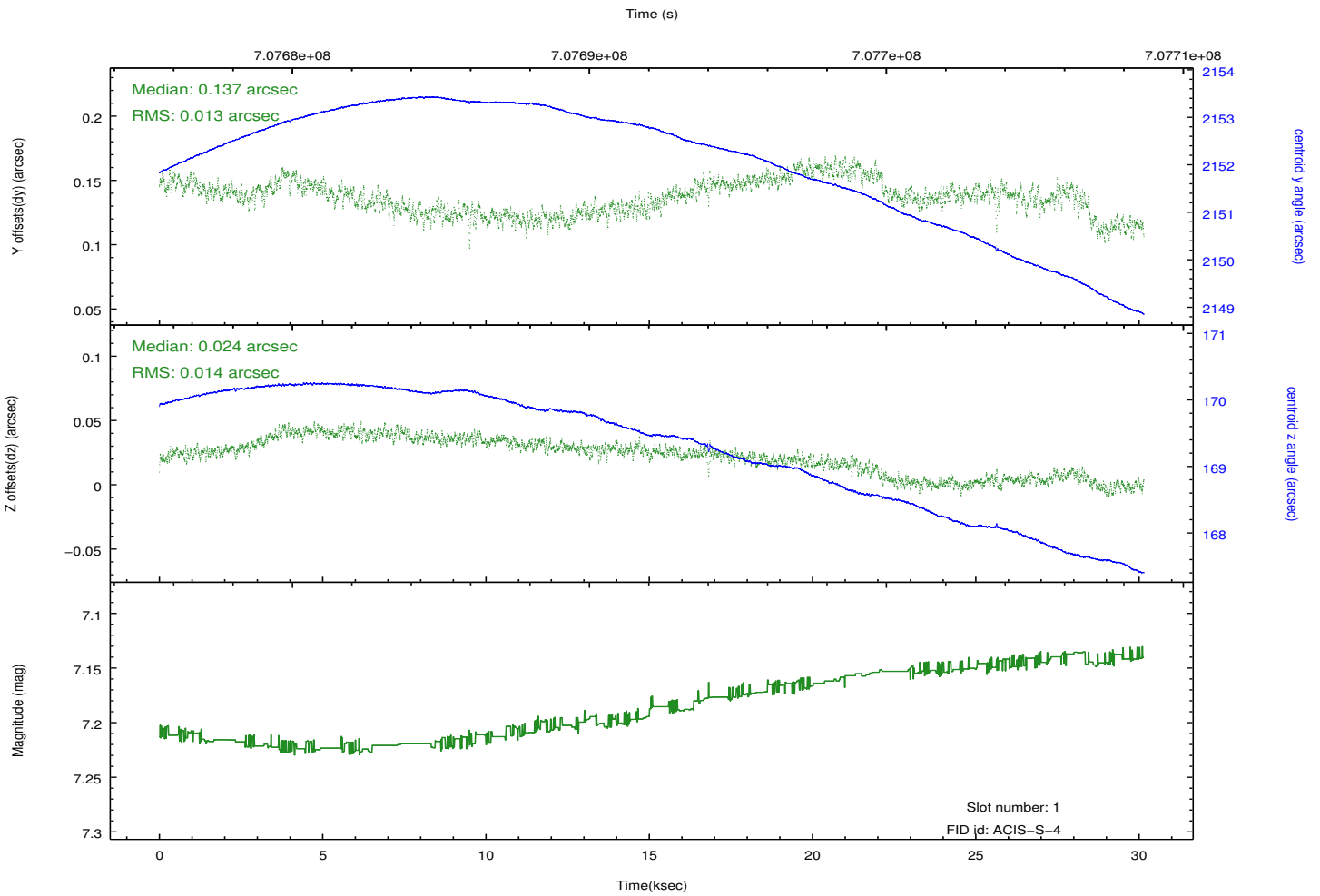
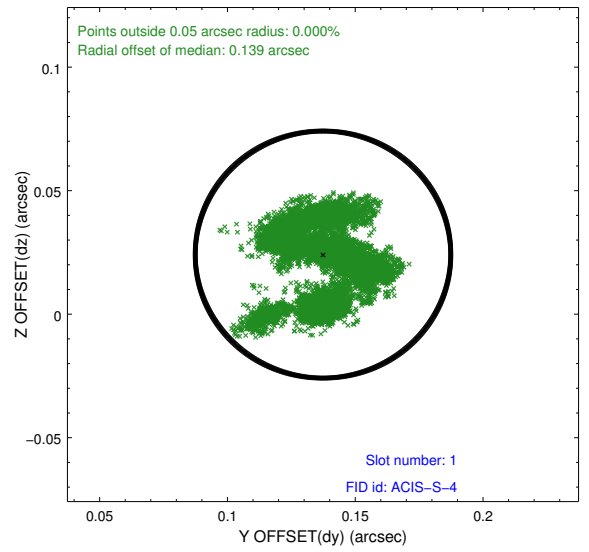
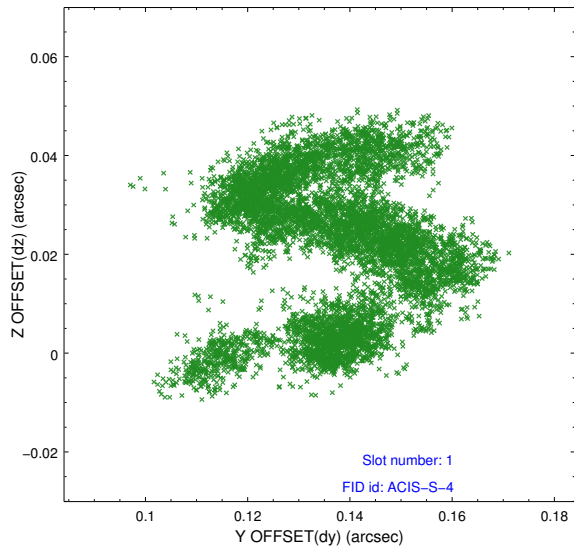


## 2.5 FID Slots

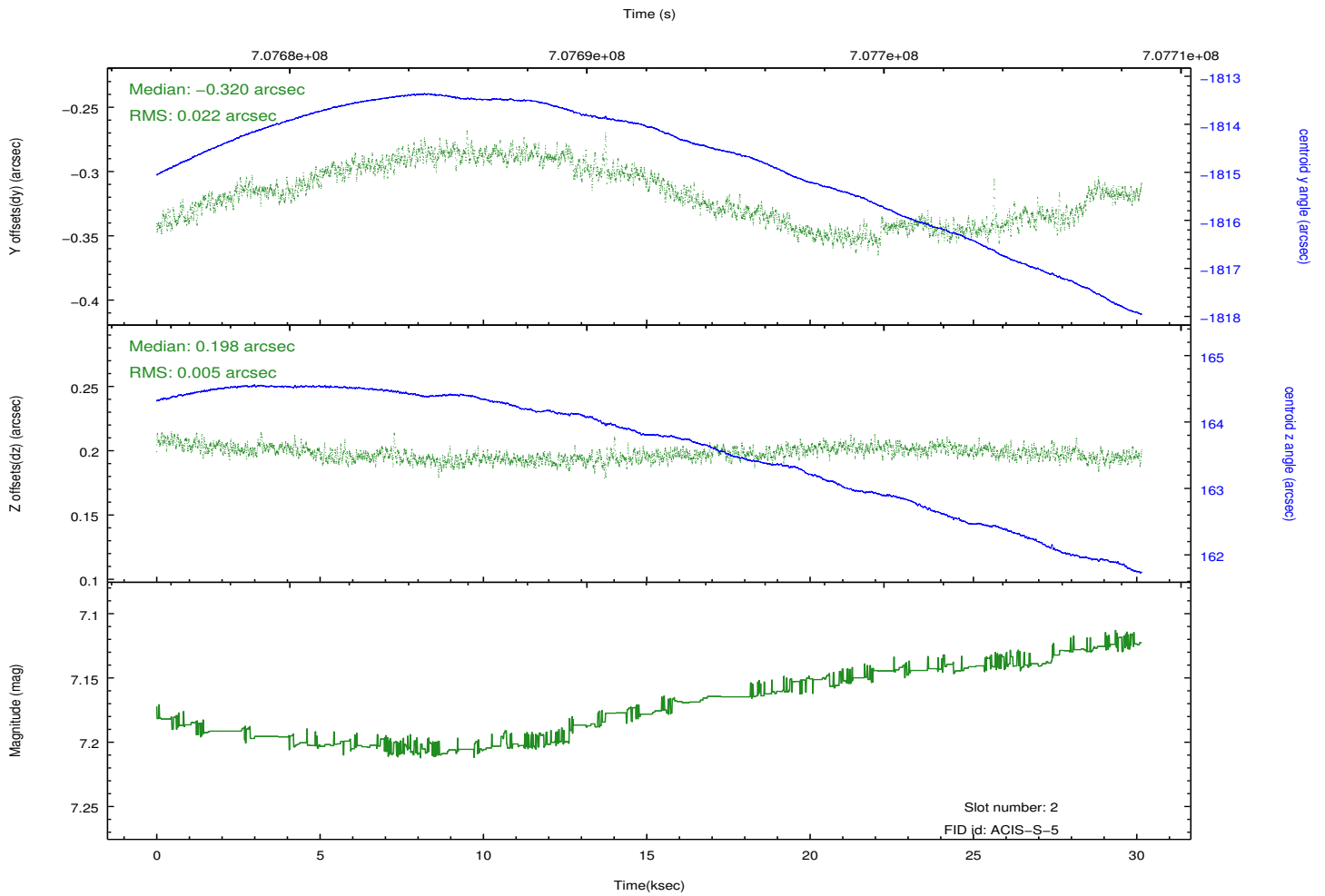
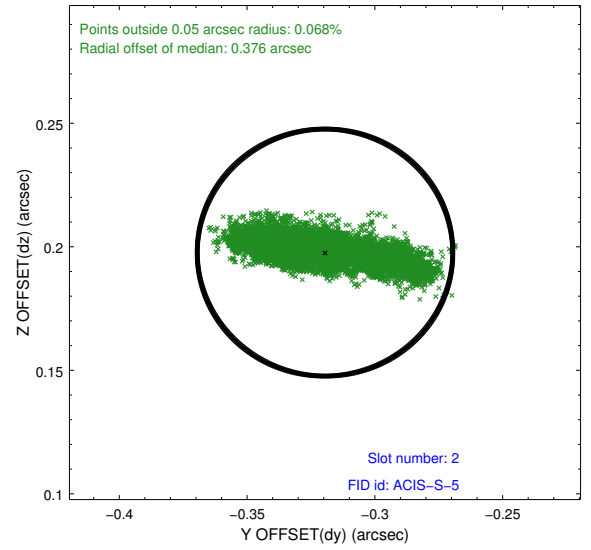
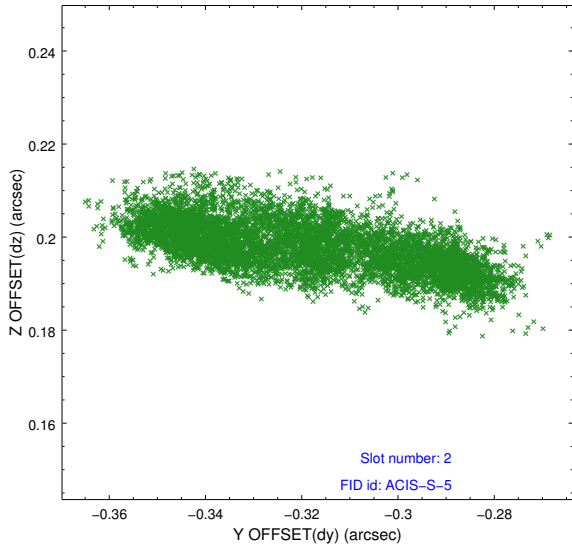
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.092836783767

### A.2 Comments