

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 3996 - L2 Version 4  
Chandra X-Ray Center

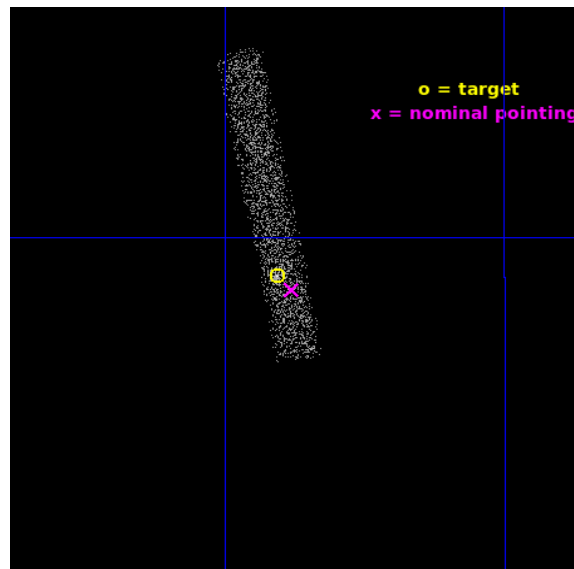
L2 Processing Date : Sep 28 2020

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# 1 Front

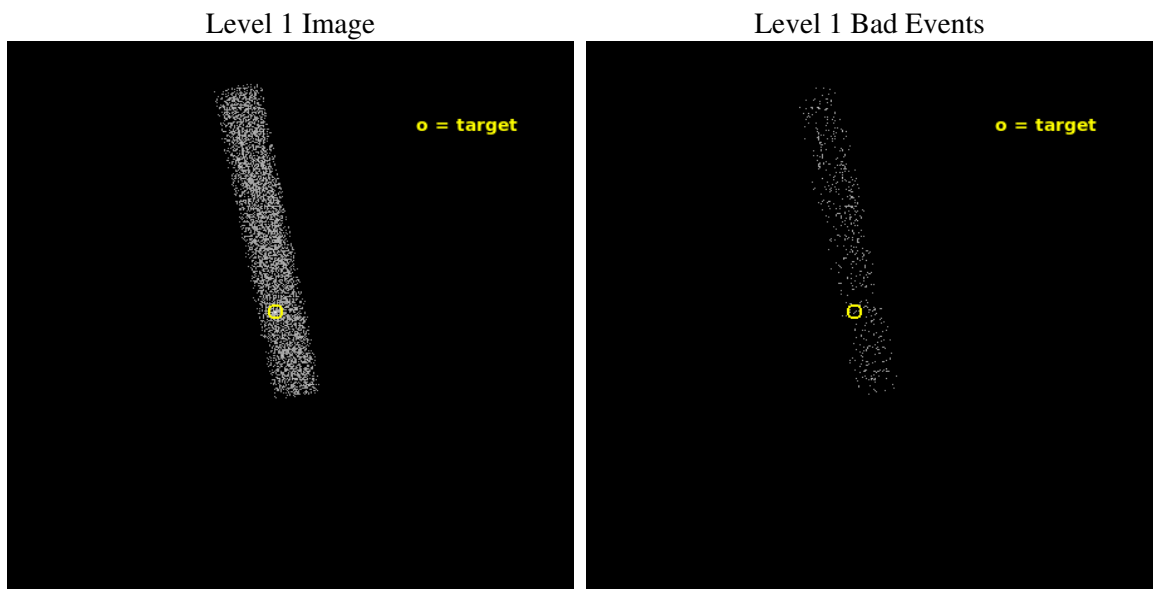
seq_num	700675	Sequence number
obs_id	3996	Observation id
title	AN X-RAY SURVEY OF RADIO-SELECTED LOW-LUMINOSITY AGNS	Proposal tit
observer	Dr. Yuichi Terashima	Principal investigator
object	NGC 4216	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	183.97625	Observer's specified target RA [deg]
dec_targ	13.149472	Observer's specified target Dec [deg]
ra_nom	183.9698521956	Nominal RA [deg]
dec_nom	13.143155312549	Nominal Dec [deg]
roll_nom	259.26595251763	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5273.600078553	Sum of GTIs [s]
livetime	4782.8769078115	Livetime [s]
ontime7	5273.600078553	Sum of GTIs [s]
l2events	3028	Number of level 2 events



## 2 OBI

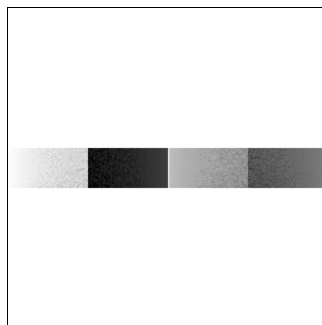
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	4	Obi number	sched_exp_time	5100.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5273.600078553	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime7	5273.600078553	Sum of GTIs [s]
date	2020-09-28T05:55:21	Date and time of file creation	l1events	7982	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	7982
rejected events	4844
rejected %	60%

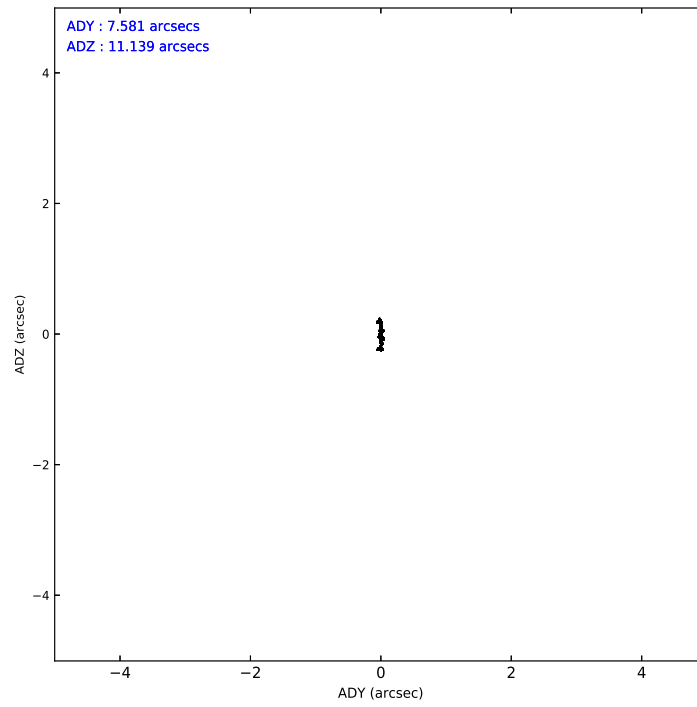
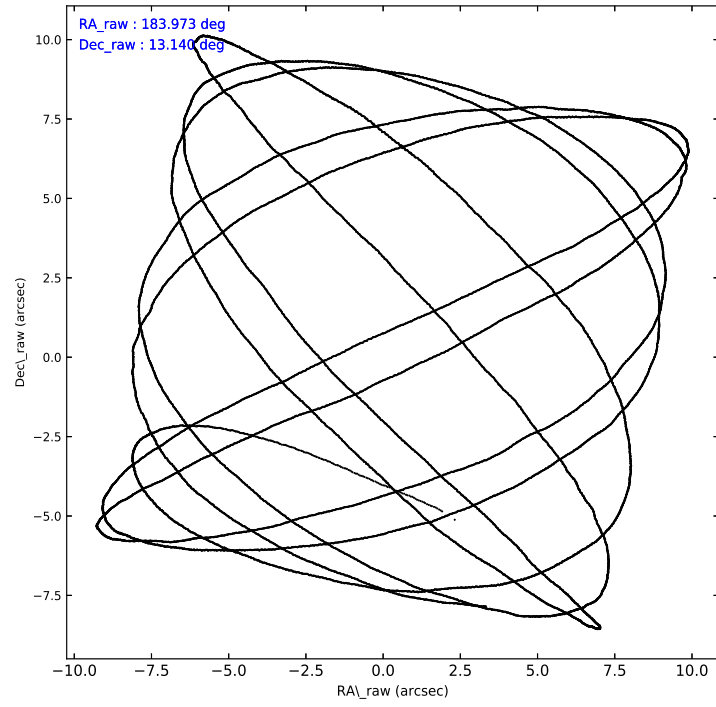
	<b>ccd 7</b>
grade 0 events	473
	5%
grade 1 events	10
	0%
grade 2 events	726
	9%
grade 3 events	477
	5%
grade 4 events	509
	6%
grade 5 events	715
	8%
grade 6 events	1667
	20%
grade 7 events	3405
	42%

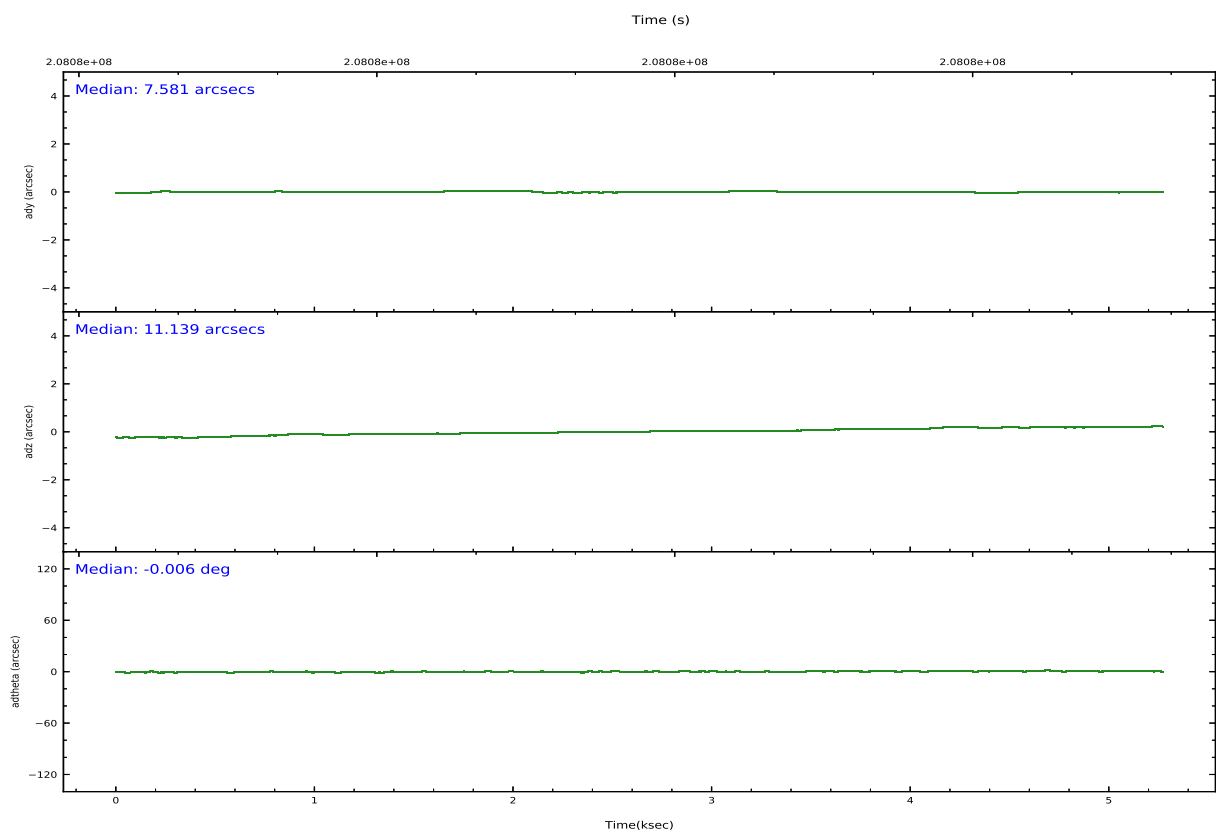
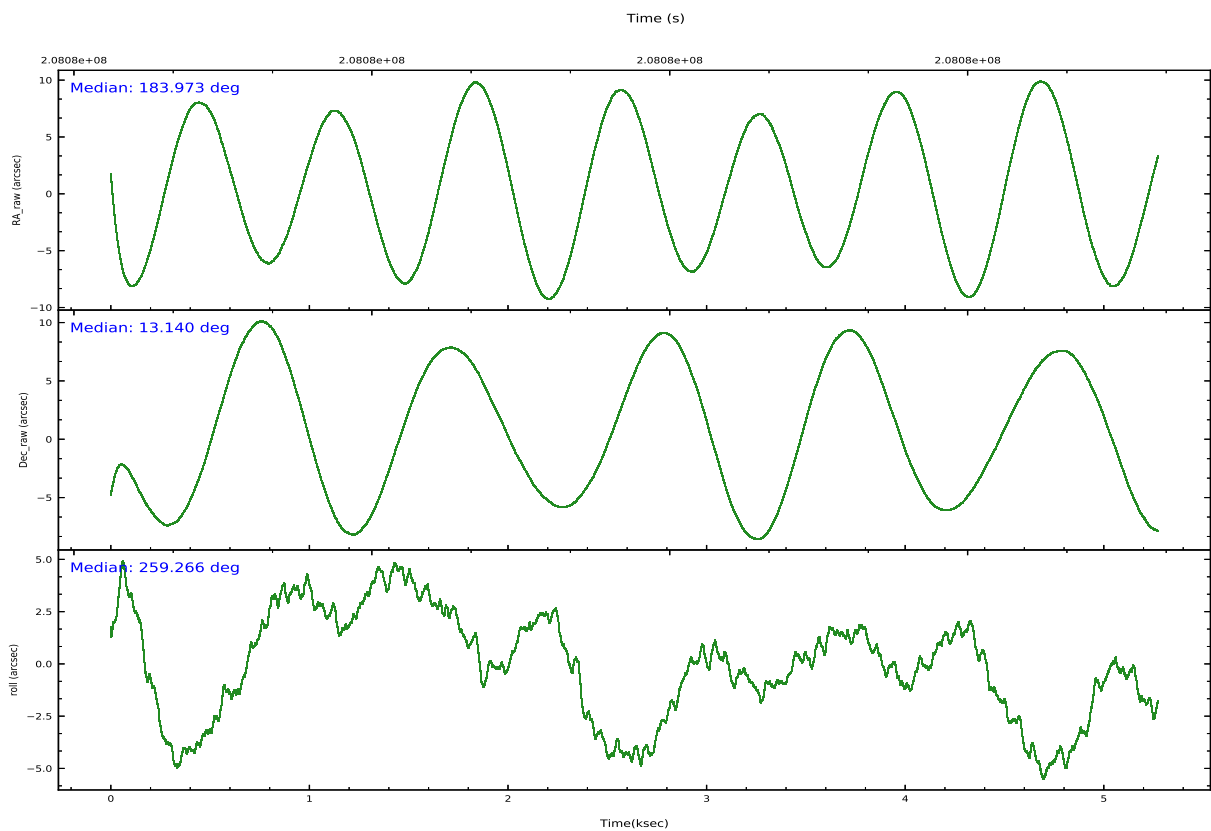


## 2.2 Compared Parameters

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	183.963133	183.9698521956	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	13.166010	13.143155312549	Subarray start row	449	449
[deg] Pointing Roll	259.112025	259.26595251763	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)	208075361.184000	208073979.38674			
Observation start date	2004-08-05T06:41:37	2004-08-05T06:19:39			
[s] Observation end time (MET)	208080461.184000	208080711.58704			
Observation end date	2004-08-05T08:06:37	2004-08-05T08:11:51			
Read mode	TIMED	TIMED			

## 2.3 Aspect



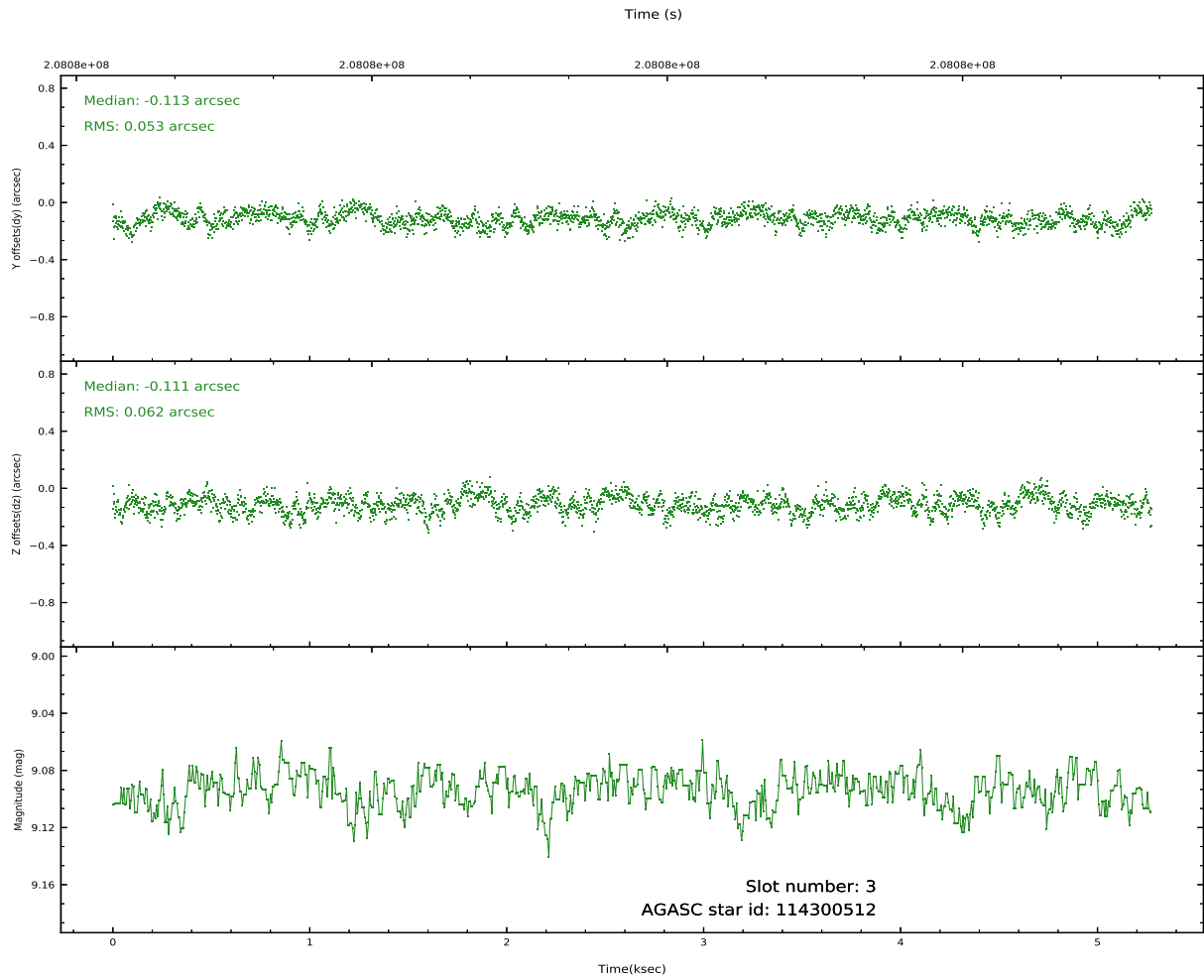
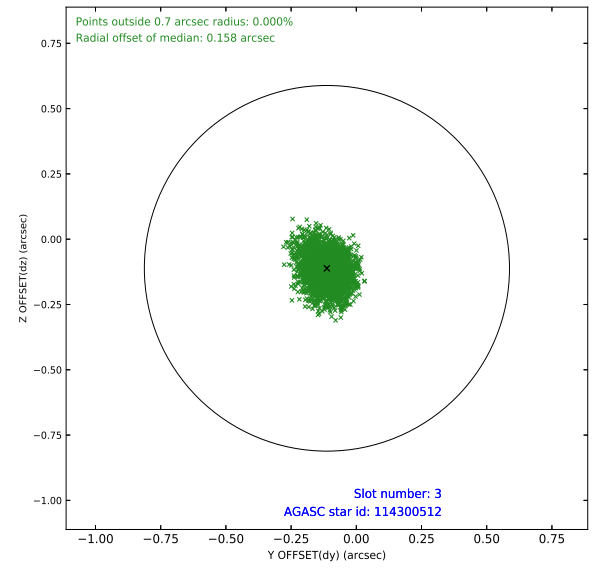
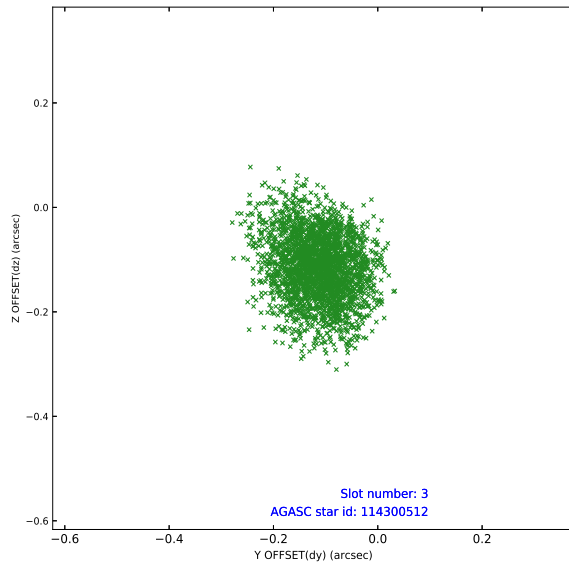


Slot Statistics

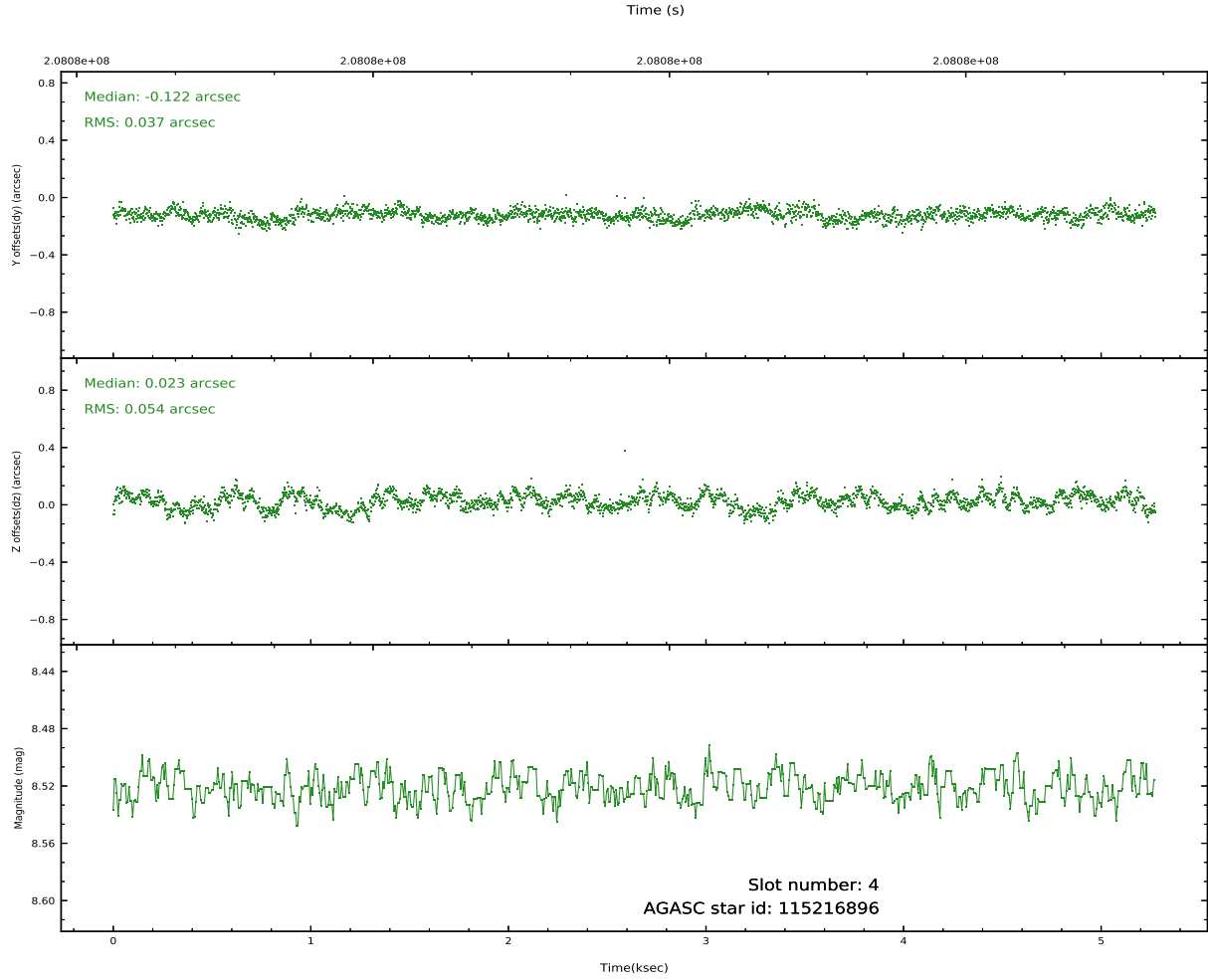
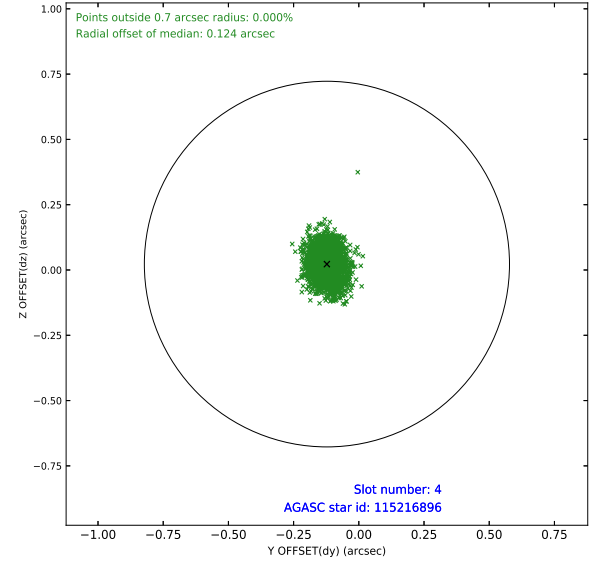
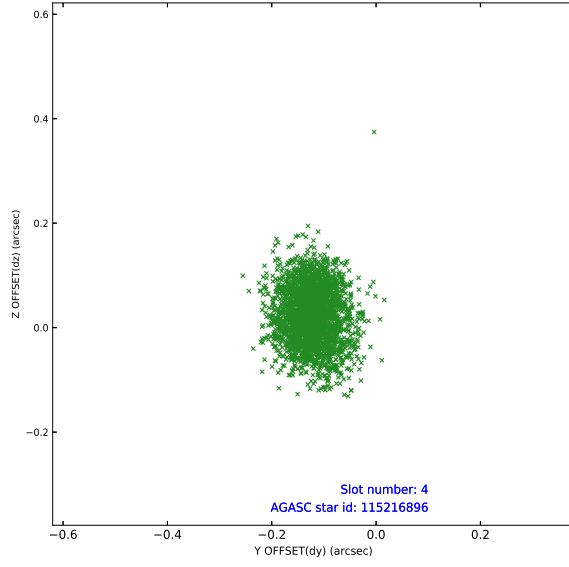
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.09	1287	1.000	-0.062	-0.047	0.007	0.011	0.000000	0.000000	-760.35	-1732
1	FID		ACIS-S-4	7.20	1287	1.000	0.139	0.042	0.005	0.010	0.000000	0.000000	2152.55	174
2	FID		ACIS-S-5	7.23	1287	1.000	-0.109	0.013	0.006	0.011	0.000000	0.000000	-1811.83	169
3	GUIDE	used	114300512	9.09	2573	1.000	-0.113	-0.111	0.087	0.140	183.274843	13.061330	822.95	-2299
4	GUIDE	used	115216896	8.52	2573	1.000	-0.122	0.023	0.071	0.112	184.169439	13.297075	-599.90	619
5	GUIDE	used	115217776	8.84	2574	1.000	0.062	0.147	0.066	0.106	184.204027	12.539164	2055.49	1258
6	GUIDE	used	115218080	9.54	2573	1.000	0.094	0.054	0.096	0.156	184.130022	12.510081	2208.70	1023
7	GUIDE	used	114295496	9.75	2572	1.000	0.082	-0.113	0.108	0.173	183.211405	12.908034	1407.54	-2415

## 2.4 Star Slots

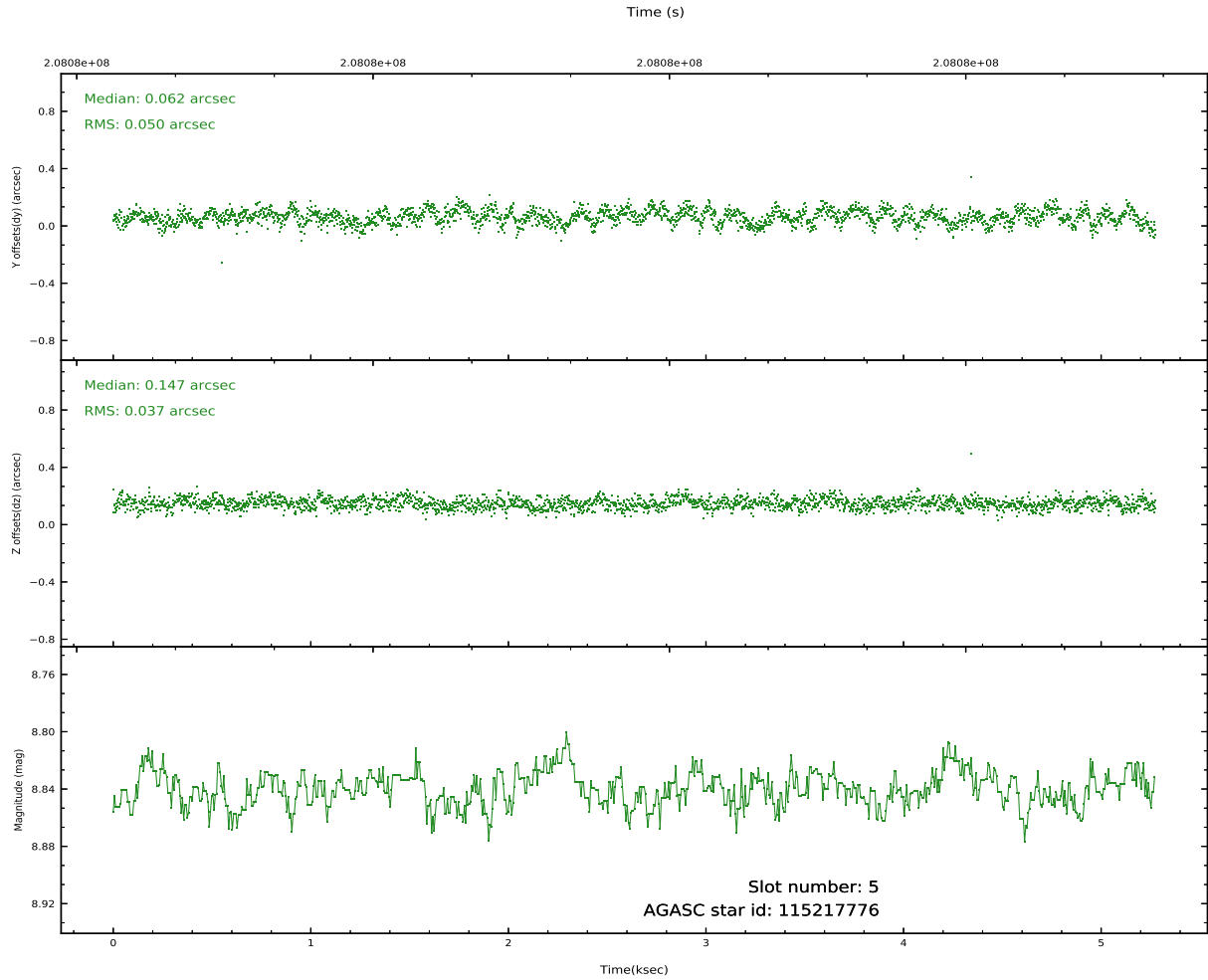
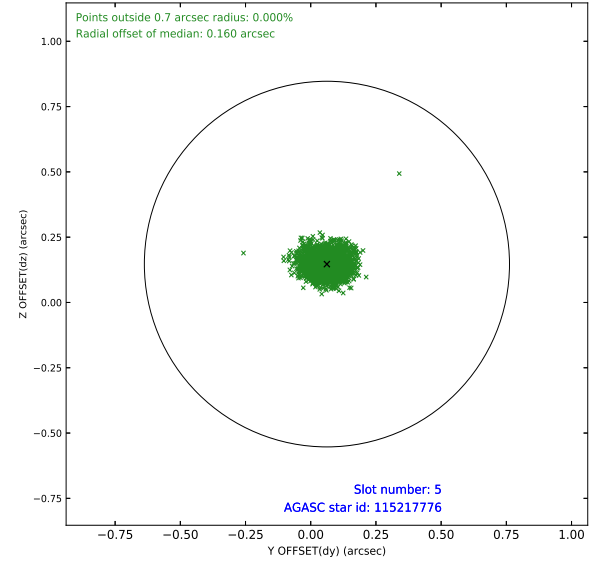
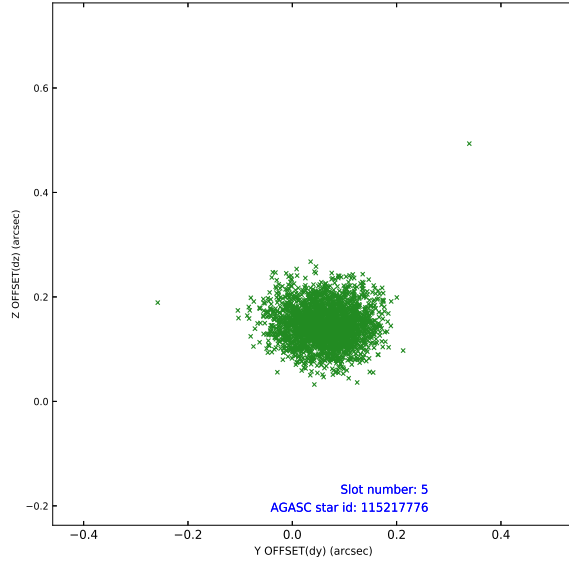
### 2.4.1 Slot 3



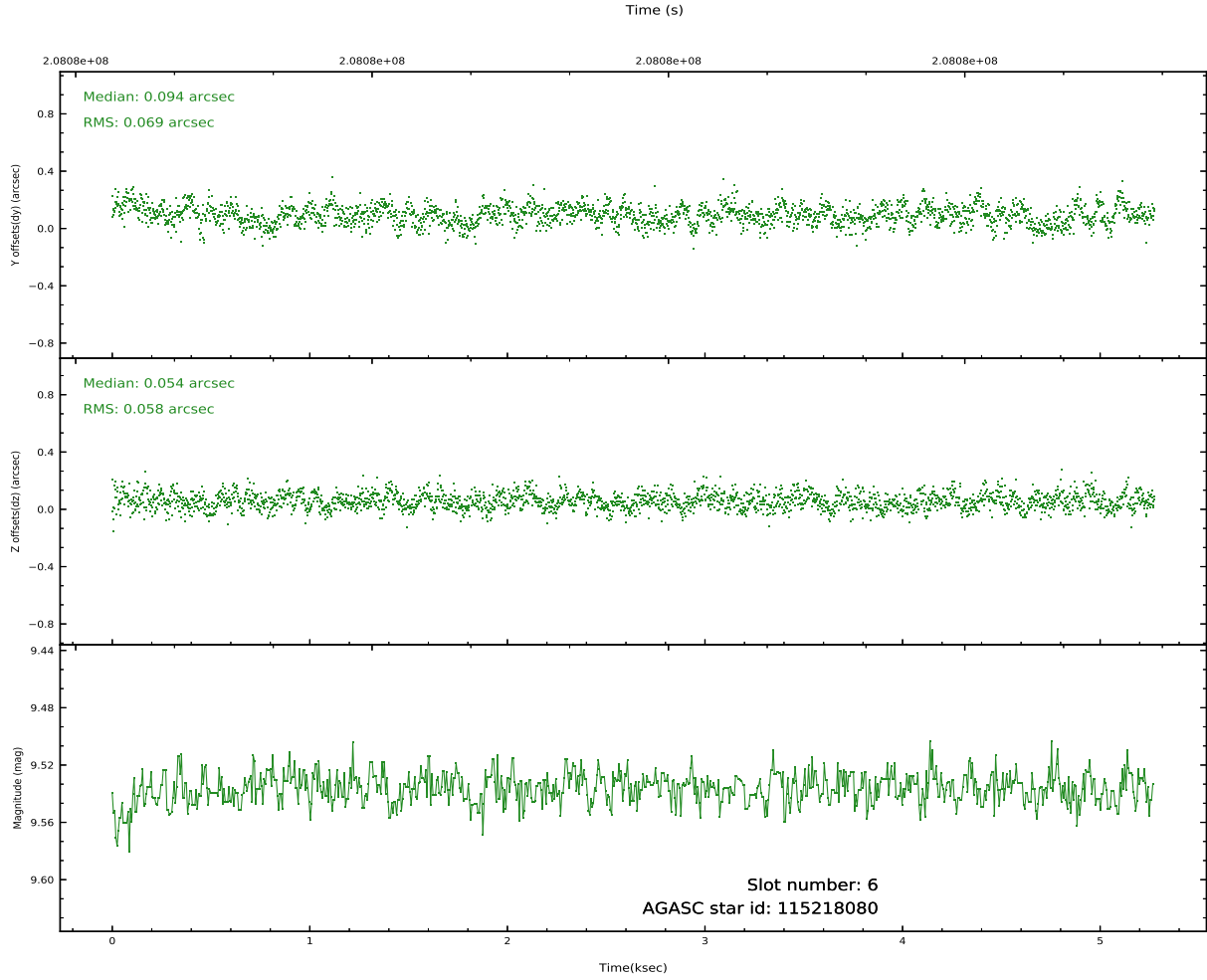
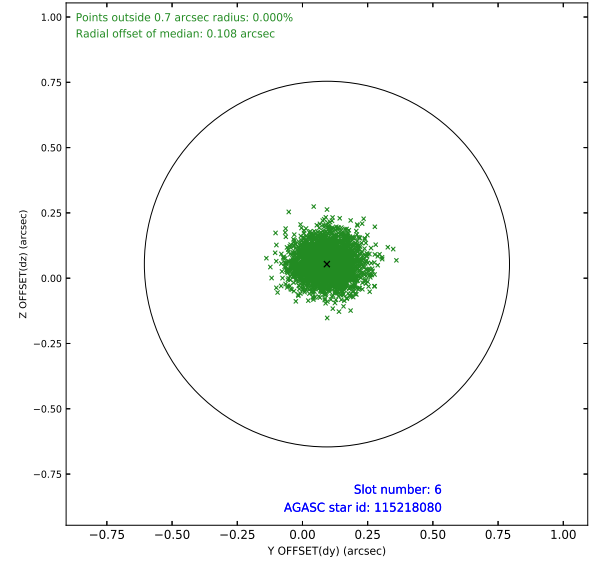
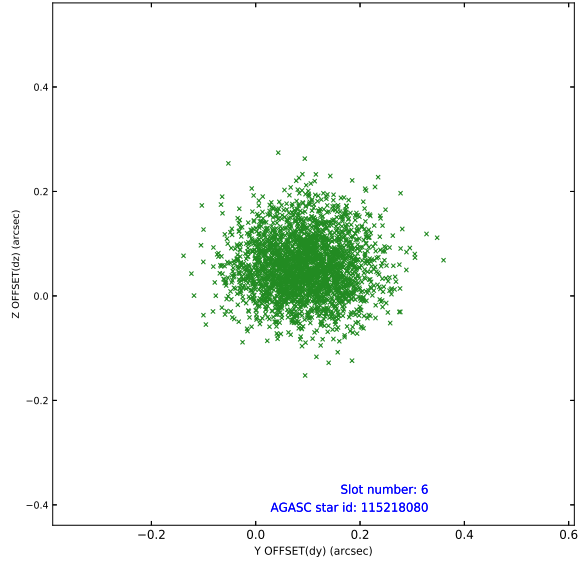
## 2.4.2 Slot 4



### 2.4.3 Slot 5

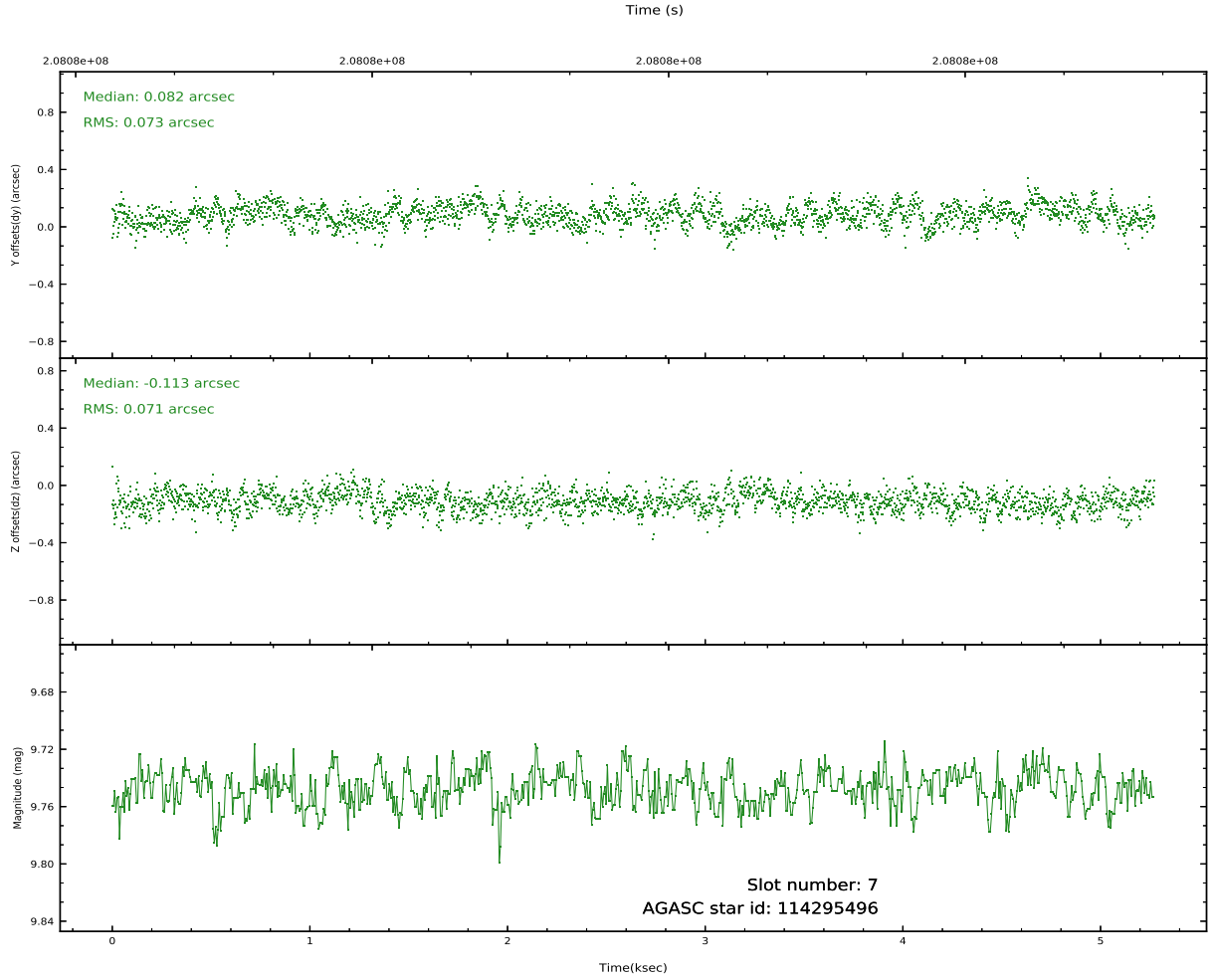
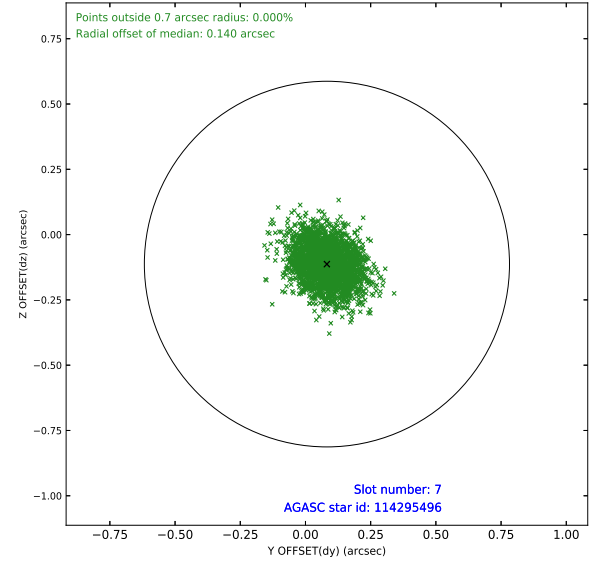
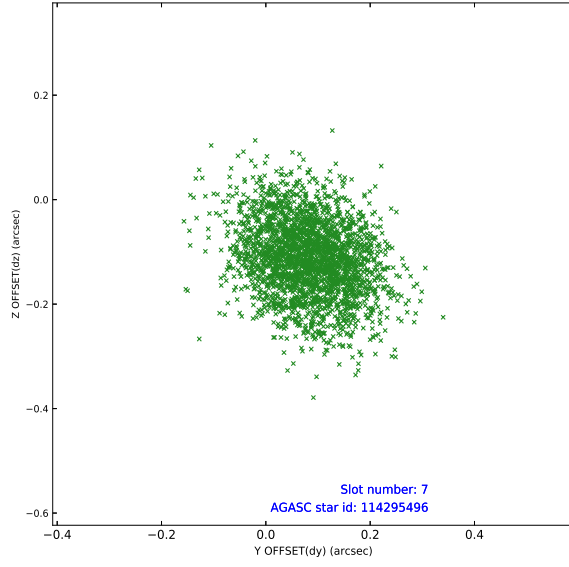


## 2.4.4 Slot 6



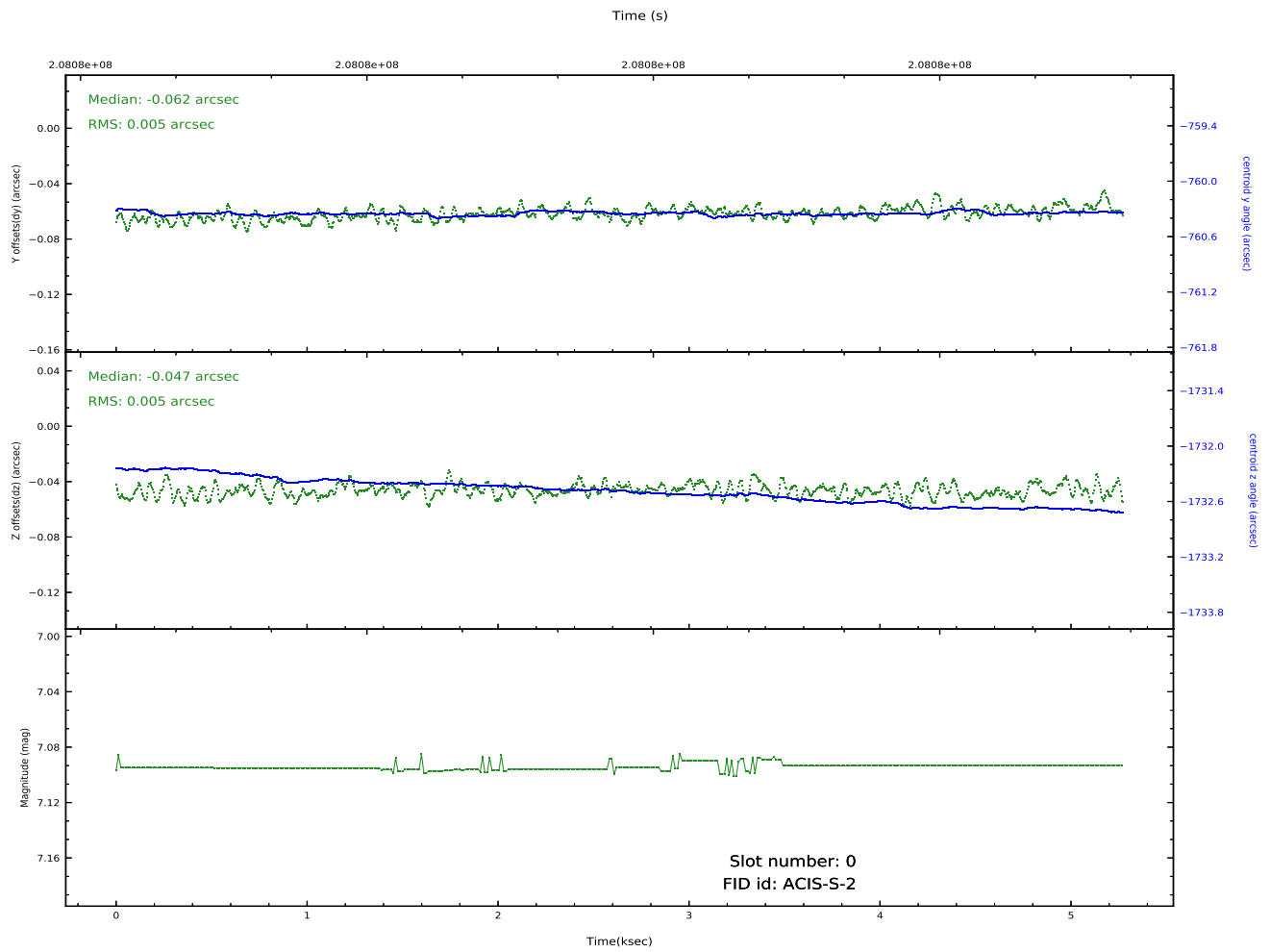
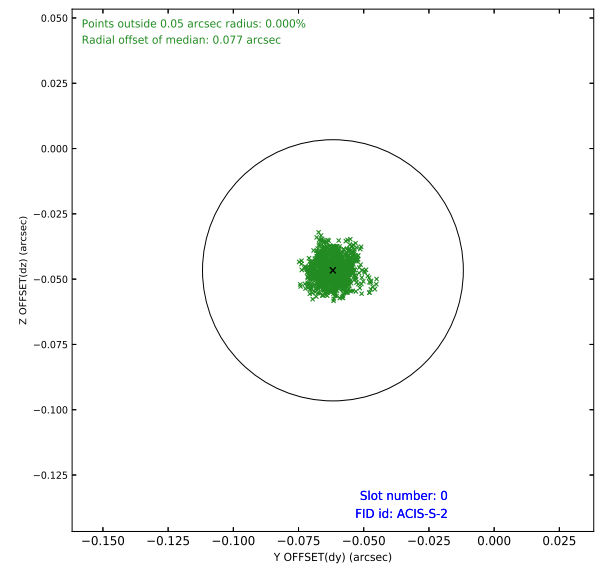
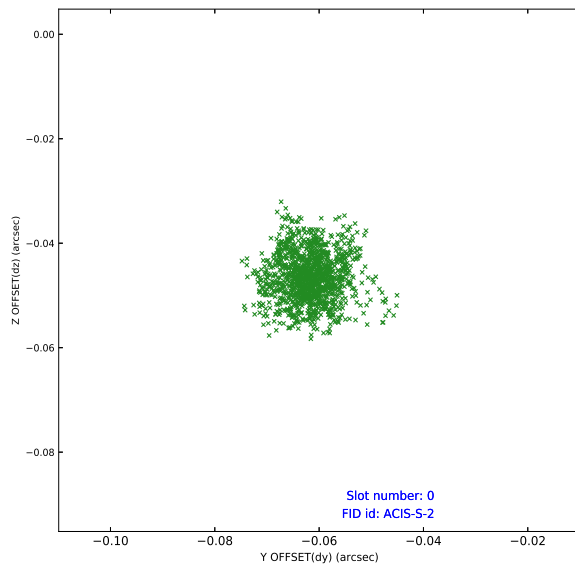


## 2.4.5 Slot 7

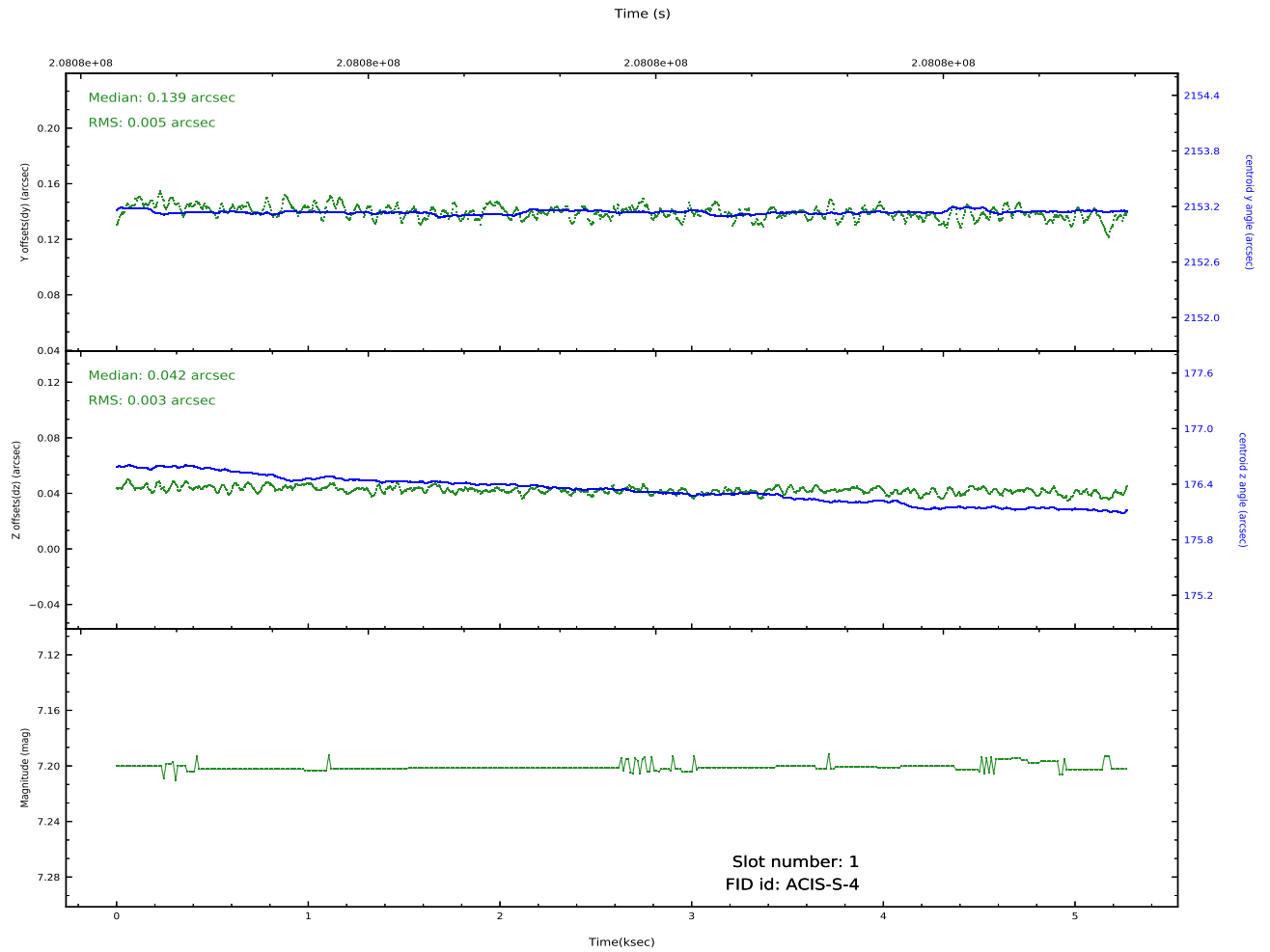
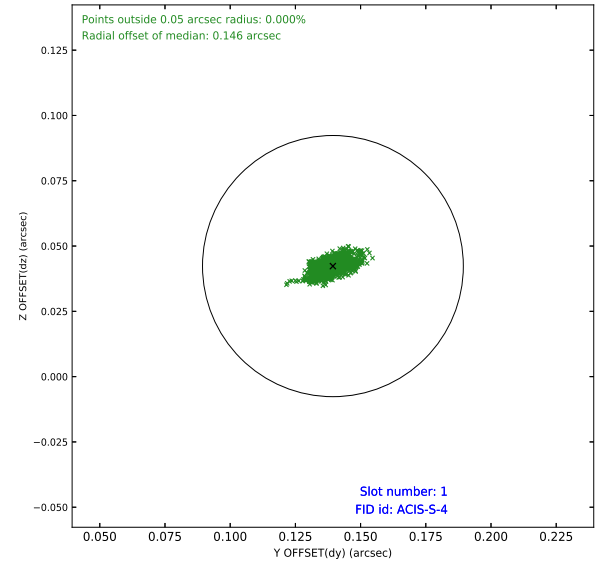
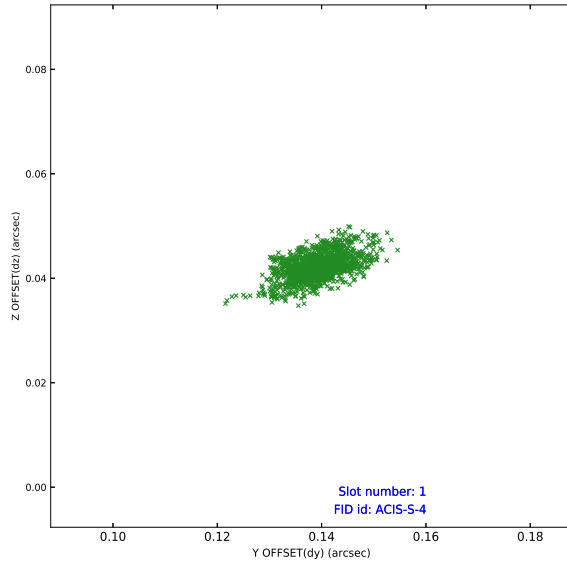


## 2.5 FID Slots

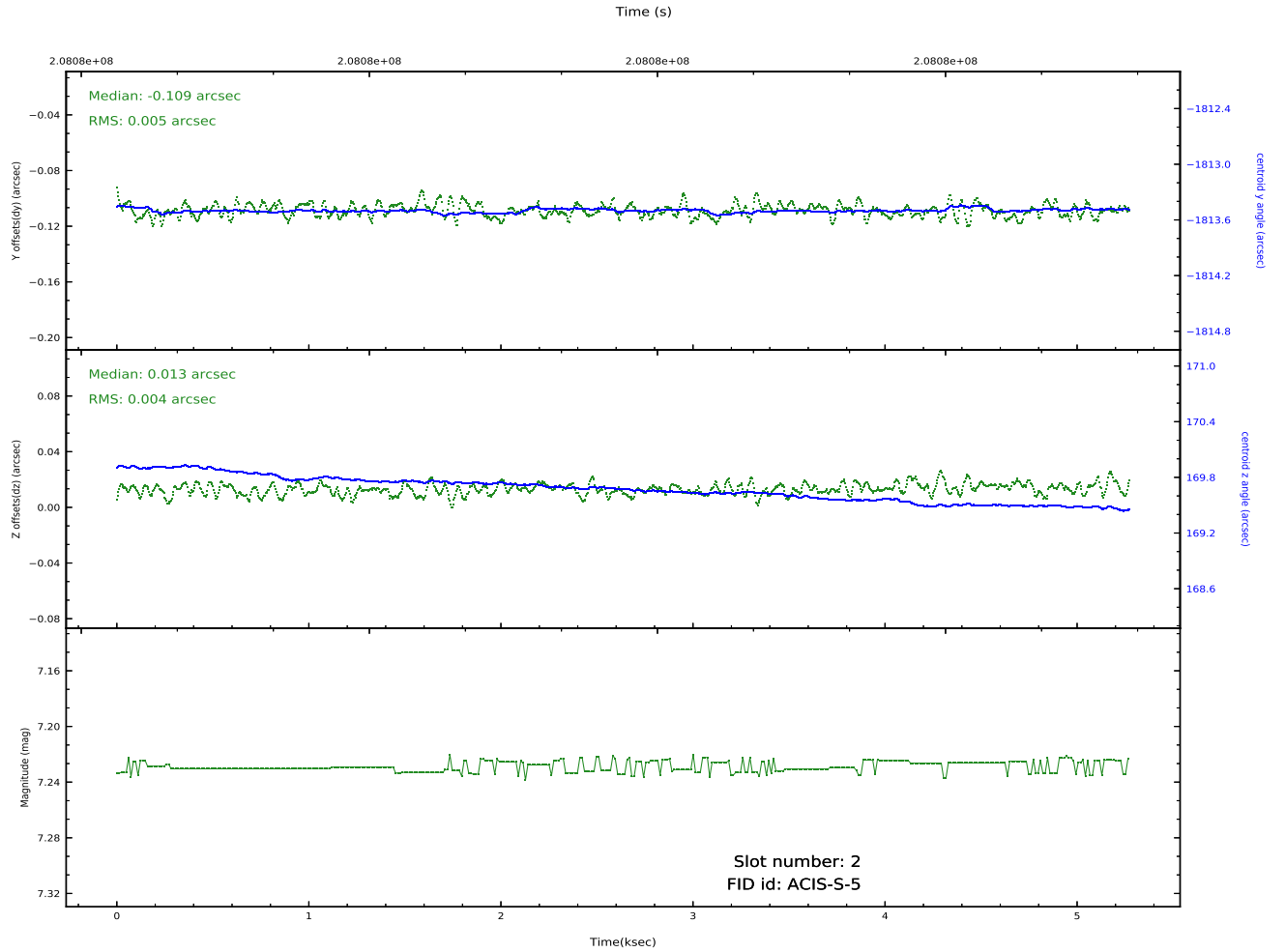
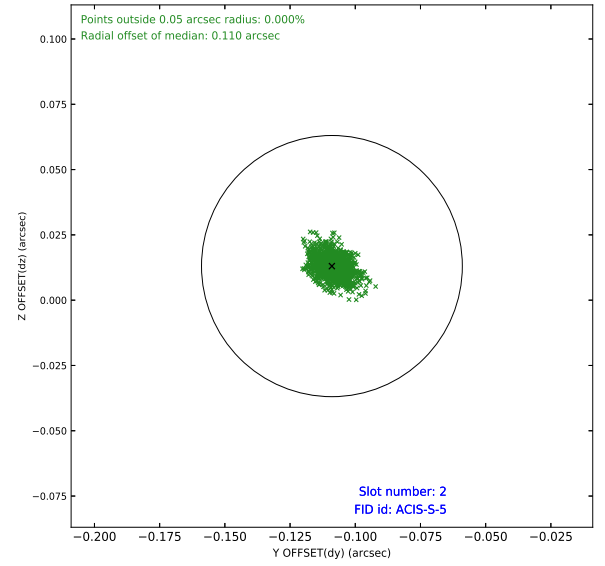
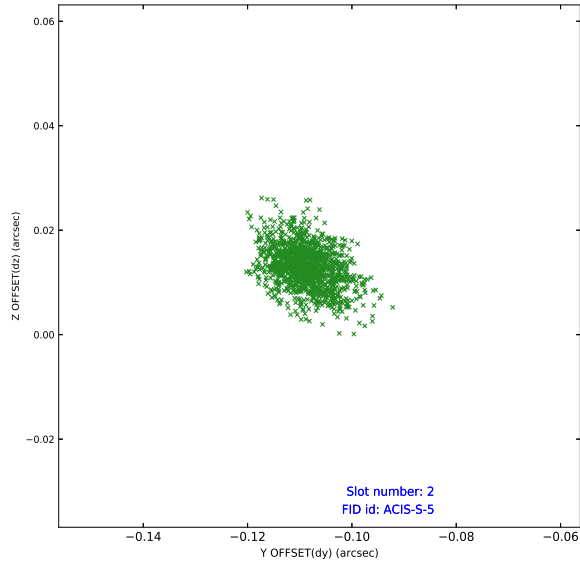
### 2.5.1 Slot 0



## 2.5.2 Slot 1



## 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.273

### A.2 Comments