

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4526 - L2 Version 5  
Chandra X-Ray Center

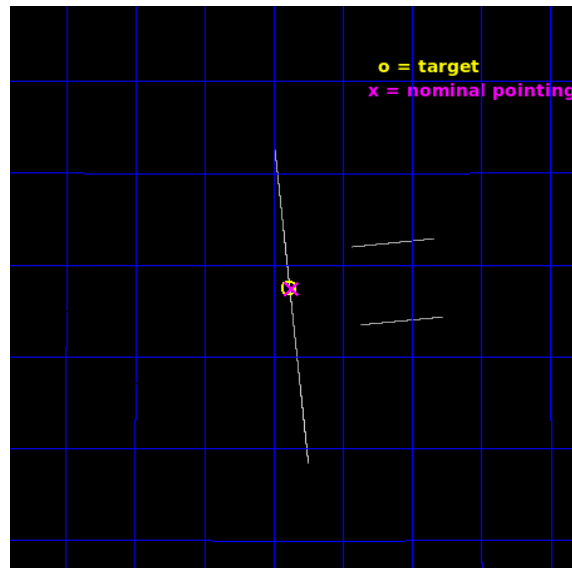
L2 Processing Date : Sep 23 2020

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# 1 Front

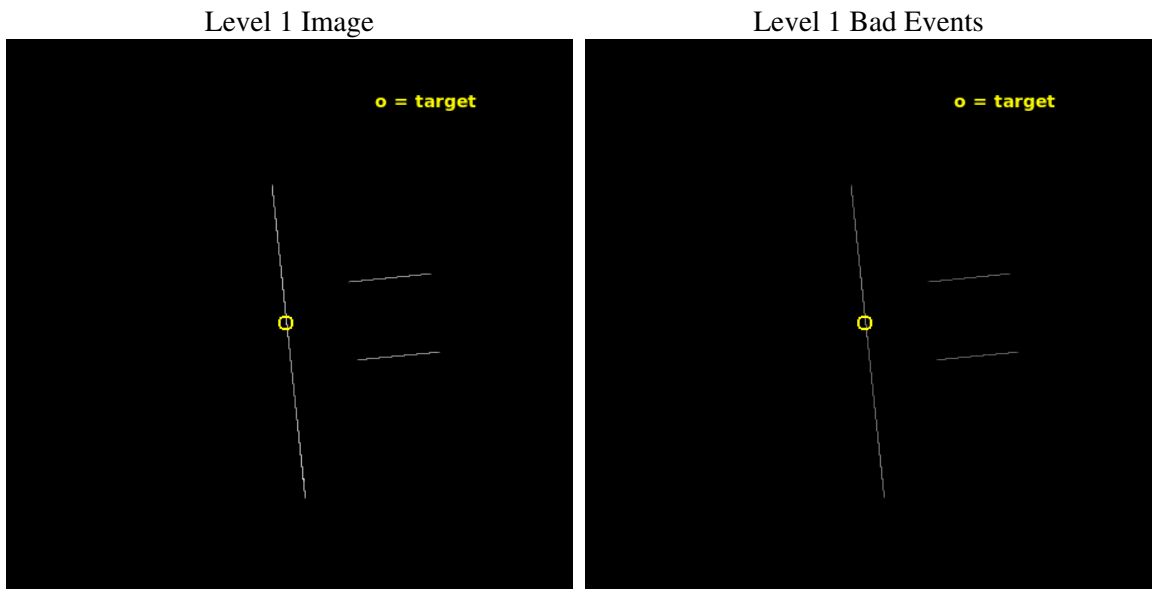
seq_num	300120	Sequence number
obs_id	4526	Observation id
title	Timing the Orbit of RX J0806.3+1527	Proposal title
observer	Tod Strohmayer	Principal investigator
object	RX J0806.3+1527	Source name
ra_targ	121.596667	Observer's specified target RA [deg]
dec_targ	15.458389	Observer's specified target Dec [deg]
ra_nom	121.59178667535	Nominal RA [deg]
dec_nom	15.457059106936	Nominal Dec [deg]
roll_nom	264.14061459381	Nominal Roll [deg]
revision	5	Processing version of data
ontime	10426.334003478	Sum of GTIs [s]
livetime	10385.606136277	Livetime [s]
ontime2	10423.412235111	Sum of GTIs [s]
ontime3	10423.414235473	Sum of GTIs [s]
ontime5	10421.955514044	Sum of GTIs [s]
ontime6	10423.415284842	Sum of GTIs [s]
ontime7	10426.334003478	Sum of GTIs [s]
ontime8	10426.33400318	Sum of GTIs [s]
l2events	125856	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	10250.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10426.334003478	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime2	10423.412235111	Sum of GTIs [s]
date	2020-09-24T01:33:45	Date and time of file creation	ontime3	10423.414235473	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	10421.955514044	Sum of GTIs [s]
			ontime6	10423.415284842	Sum of GTIs [s]
			ontime7	10426.334003478	Sum of GTIs [s]
			ontime8	10426.33400318	Sum of GTIs [s]
			l1events	274936	Number of level 1 events

### 2.1.3 Events

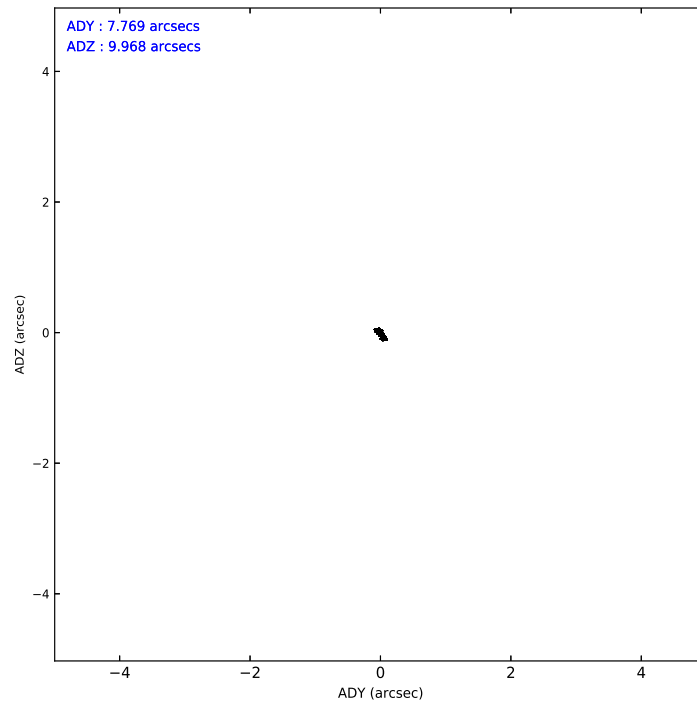
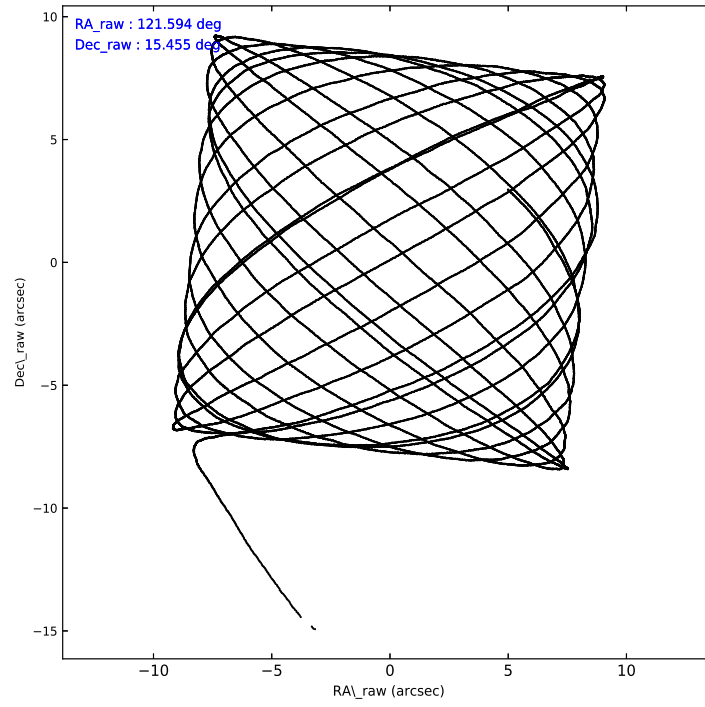
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	24673	26414	96115	26178	60896	40660	grade 0 events	2206	2441	27258	2096	5161	5648
rejected events	13731	14170	20506	14111	20357	15900		8%	9%	28%	8%	8%	13%
rejected %	55%	53%	21%	53%	33%	39%	grade 1 events	48	49	77	55	72	105
								0%	0%	0%	0%	0%	0%
							grade 2 events	11586	12208	25656	11985	15015	15001
								46%	46%	26%	45%	24%	36%
							grade 3 events	1622	2009	1246	1754	2229	2946
								6%	7%	1%	6%	3%	7%
							grade 4 events	1656	1662	1181	1614	2271	2876
								6%	6%	1%	6%	3%	7%
							grade 5 events	2665	2906	5980	3169	7442	4185
								10%	11%	6%	12%	12%	10%
							grade 6 events	4890	5139	34717	5505	28706	9899
								19%	19%	36%	21%	47%	24%
							grade 7 events	0	0	0	0	0	0
								0%	0%	0%	0%	0%	0%

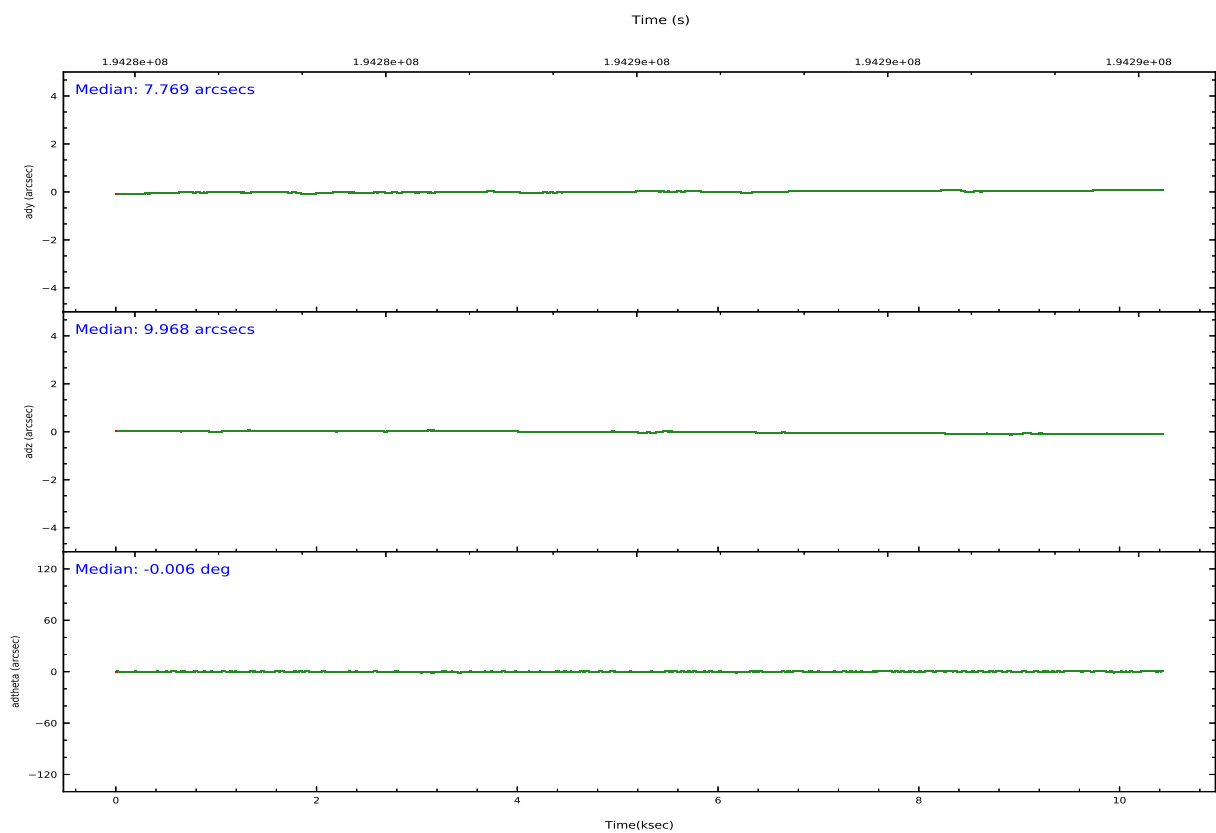
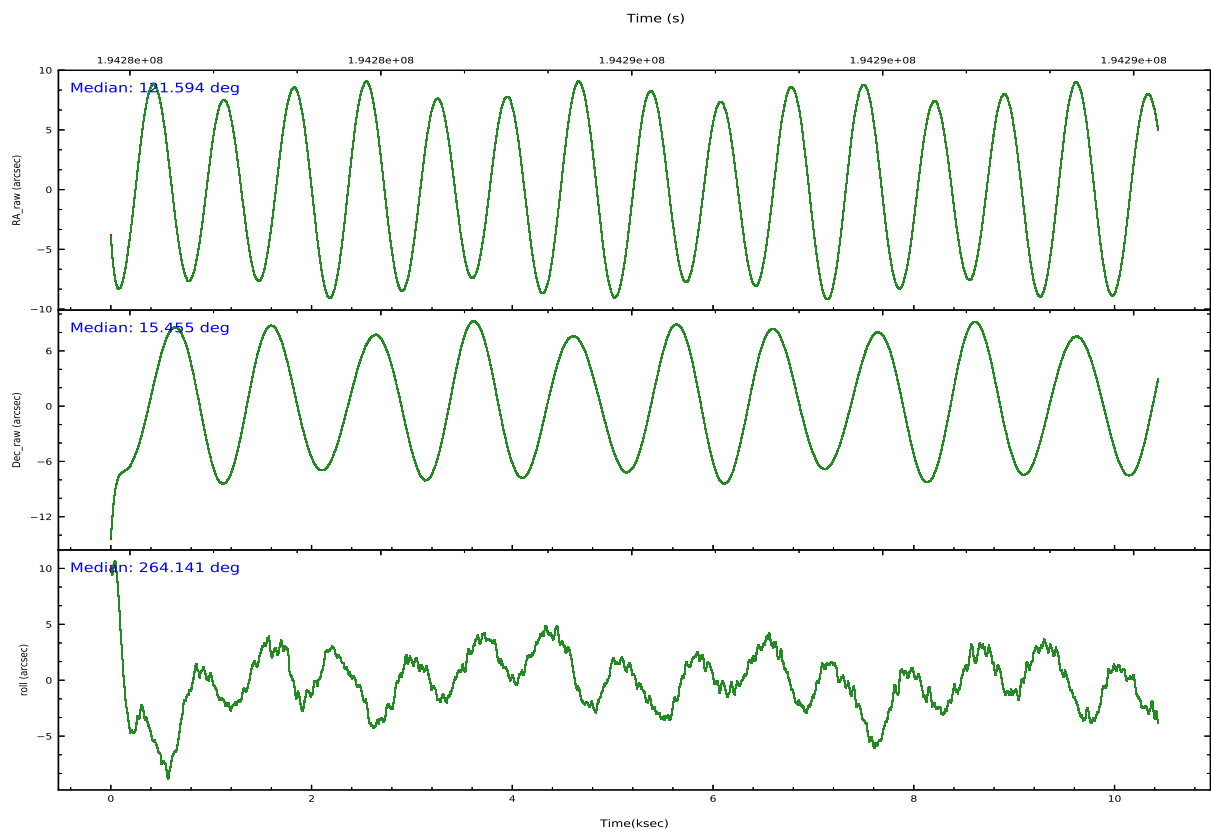


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_GRADED	CC33_GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	121.582602	121.59178667535	Subarray requested	NONE	NONE
[deg] Pointing Dec	15.479256	15.457059106936	Alternating exposures requested	N	N
[deg] Pointing Roll	263.987285	264.14061459381	[s] Primary exposure time	0.000000	0
[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)	194282495.184000	194281499.34035			
Observation start date	2004-02-27T15:20:31	2004-02-27T15:04:59			
[s] Observation end time (MET)	194292745.184000	194293586.65338			
Observation end date	2004-02-27T18:11:21	2004-02-27T18:26:26			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect



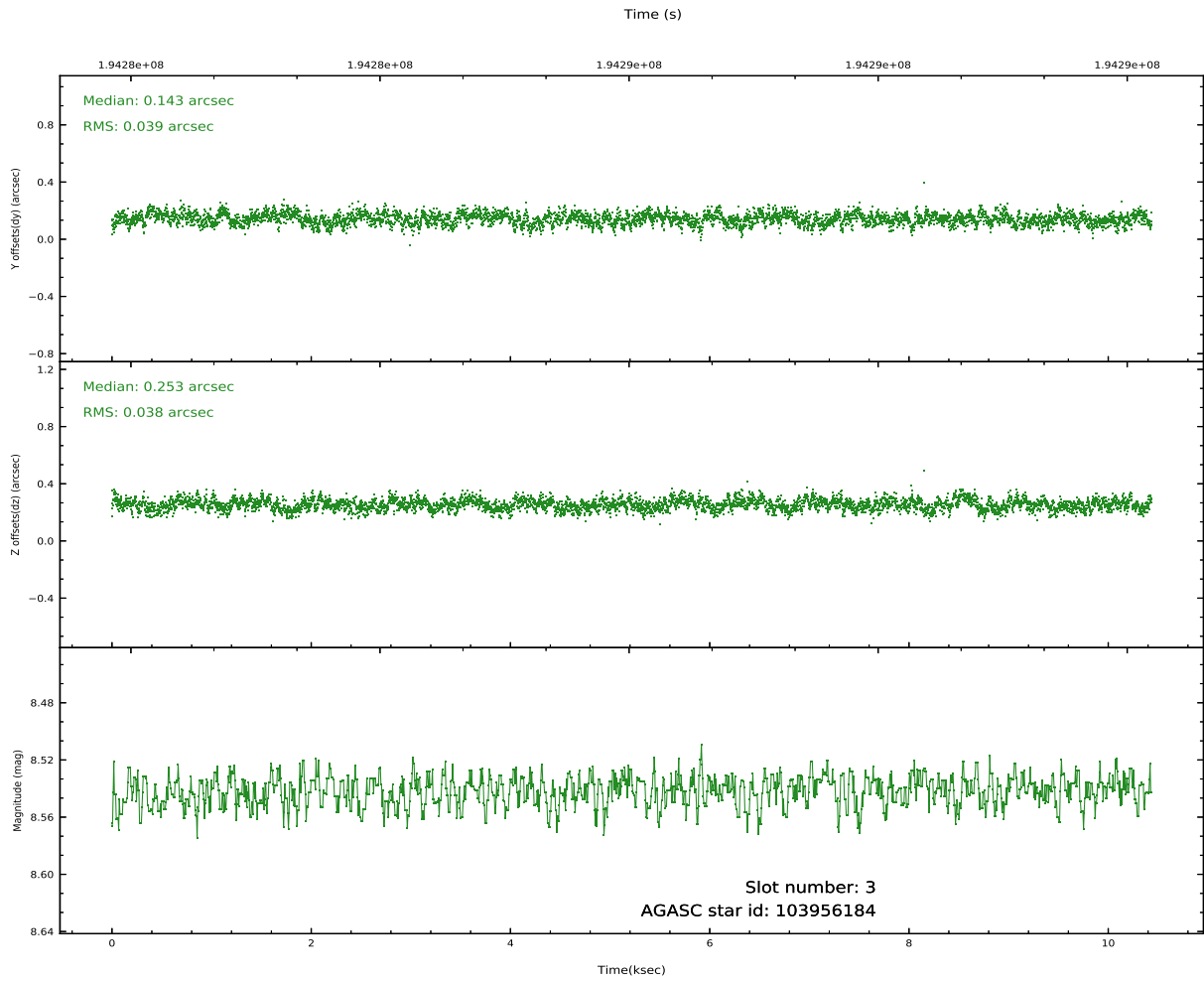
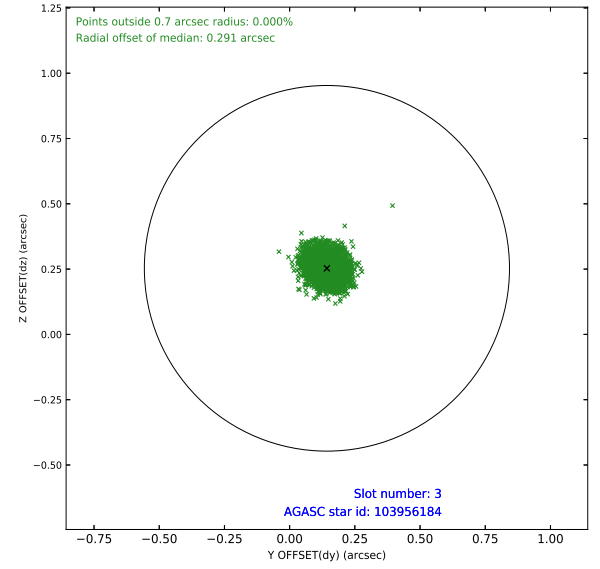
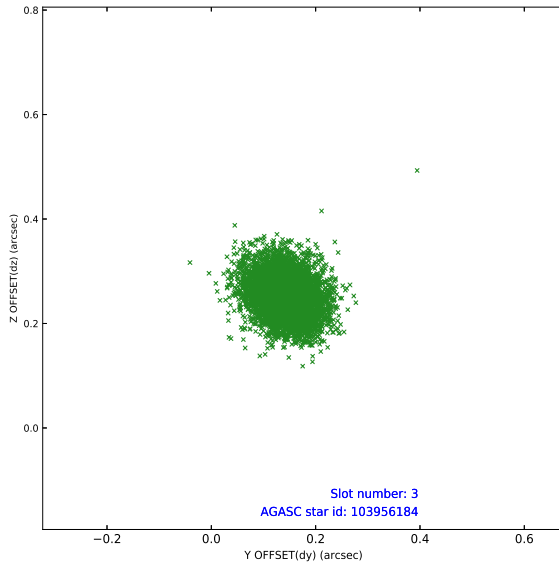


Slot Statistics

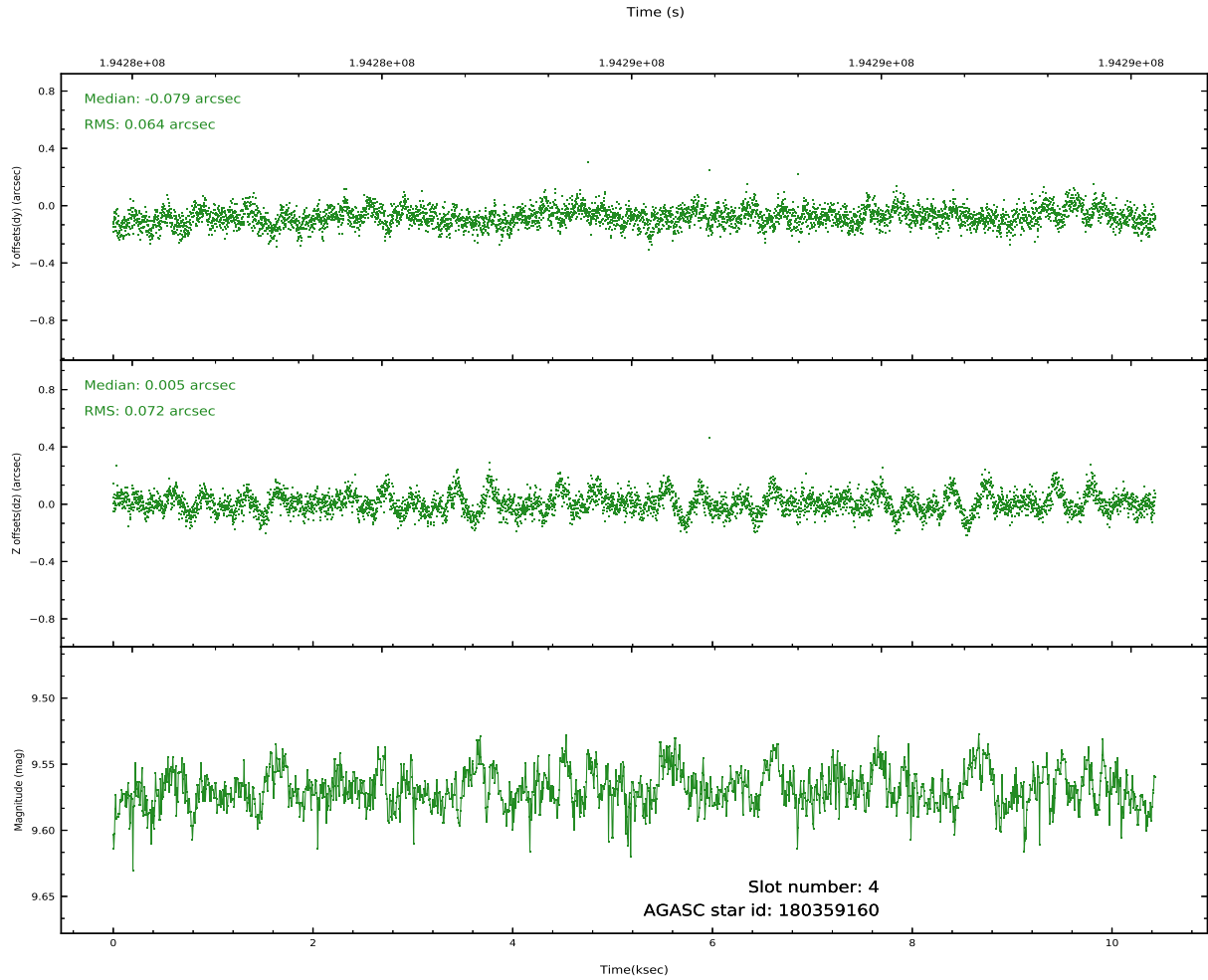
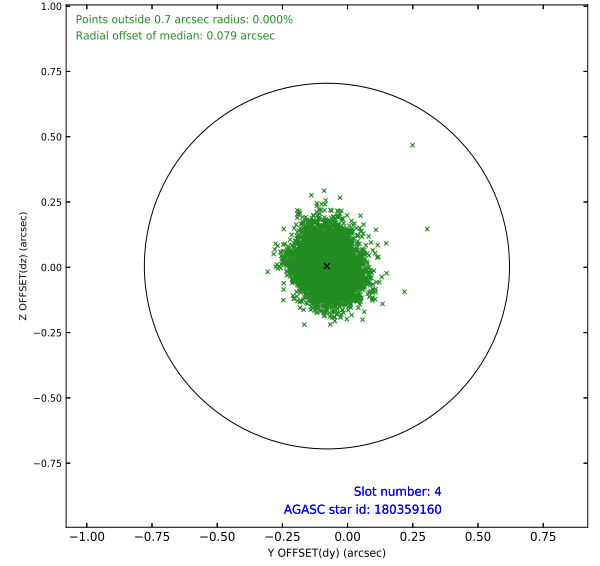
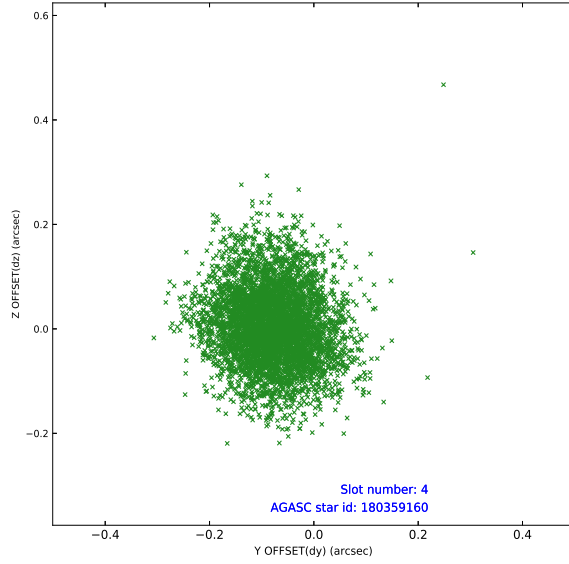
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2543	1.000	-0.069	-0.056	0.007	0.012	0.000000	0.000000	-760.55	-1731
1	FID		ACIS-S-4	7.20	2542	1.000	0.144	0.048	0.006	0.011	0.000000	0.000000	2152.64	176
2	FID		ACIS-S-5	7.23	2542	1.000	-0.106	0.016	0.007	0.012	0.000000	0.000000	-1812.85	170
3	GUIDE	used	103956184	8.54	5087	1.000	0.143	0.253	0.058	0.093	122.093586	14.853591	2051.78	2004
4	GUIDE	used	180359160	9.57	5083	1.000	-0.079	0.005	0.101	0.167	121.837257	16.020694	-2030.93	672
5	GUIDE	used	180367416	9.11	5085	1.000	-0.122	-0.109	0.085	0.139	120.920648	15.525818	70.14	-2301
6	GUIDE	used	180370112	8.38	5087	1.000	0.056	-0.179	0.060	0.095	121.144488	15.364256	570.88	-1470
7	GUIDE	used	180372496	7.91	5084	1.000	0.002	0.031	0.058	0.094	121.745221	15.155380	1100.34	684

## 2.4 Star Slots

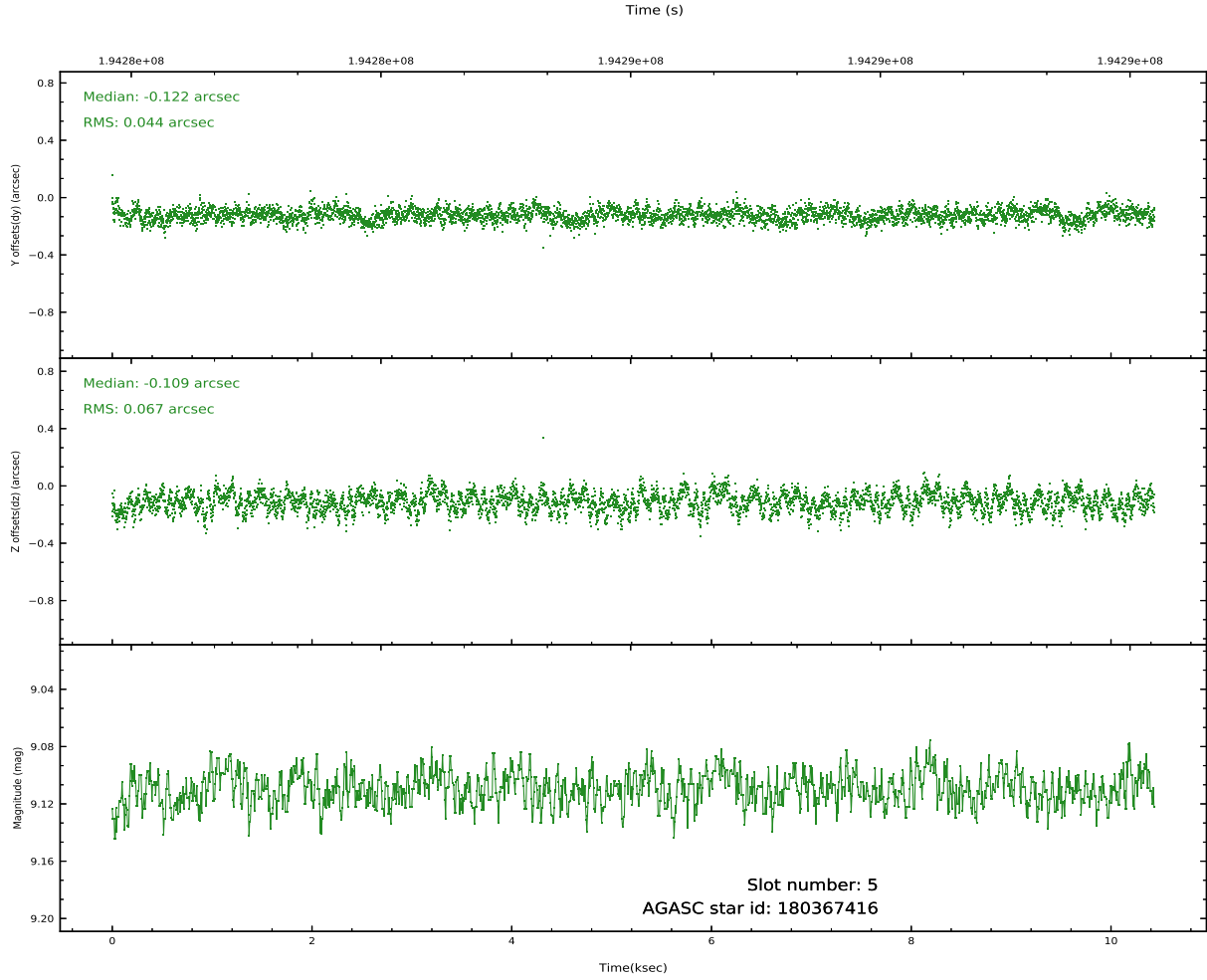
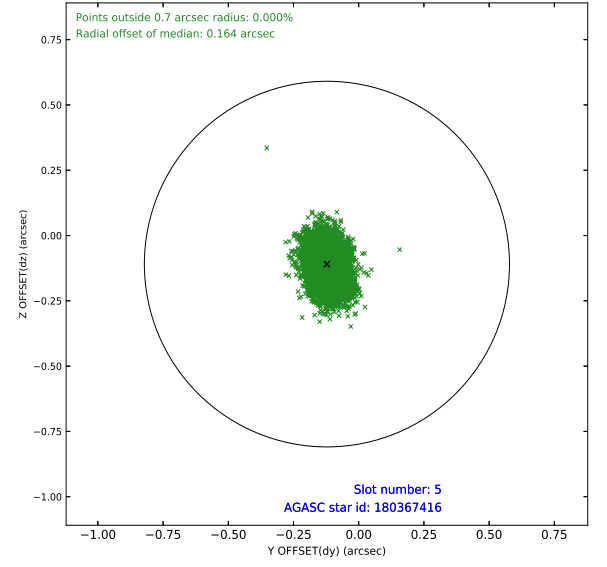
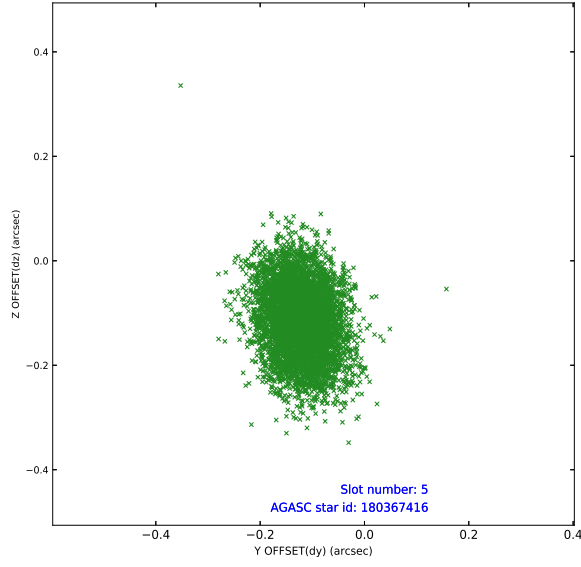
### 2.4.1 Slot 3



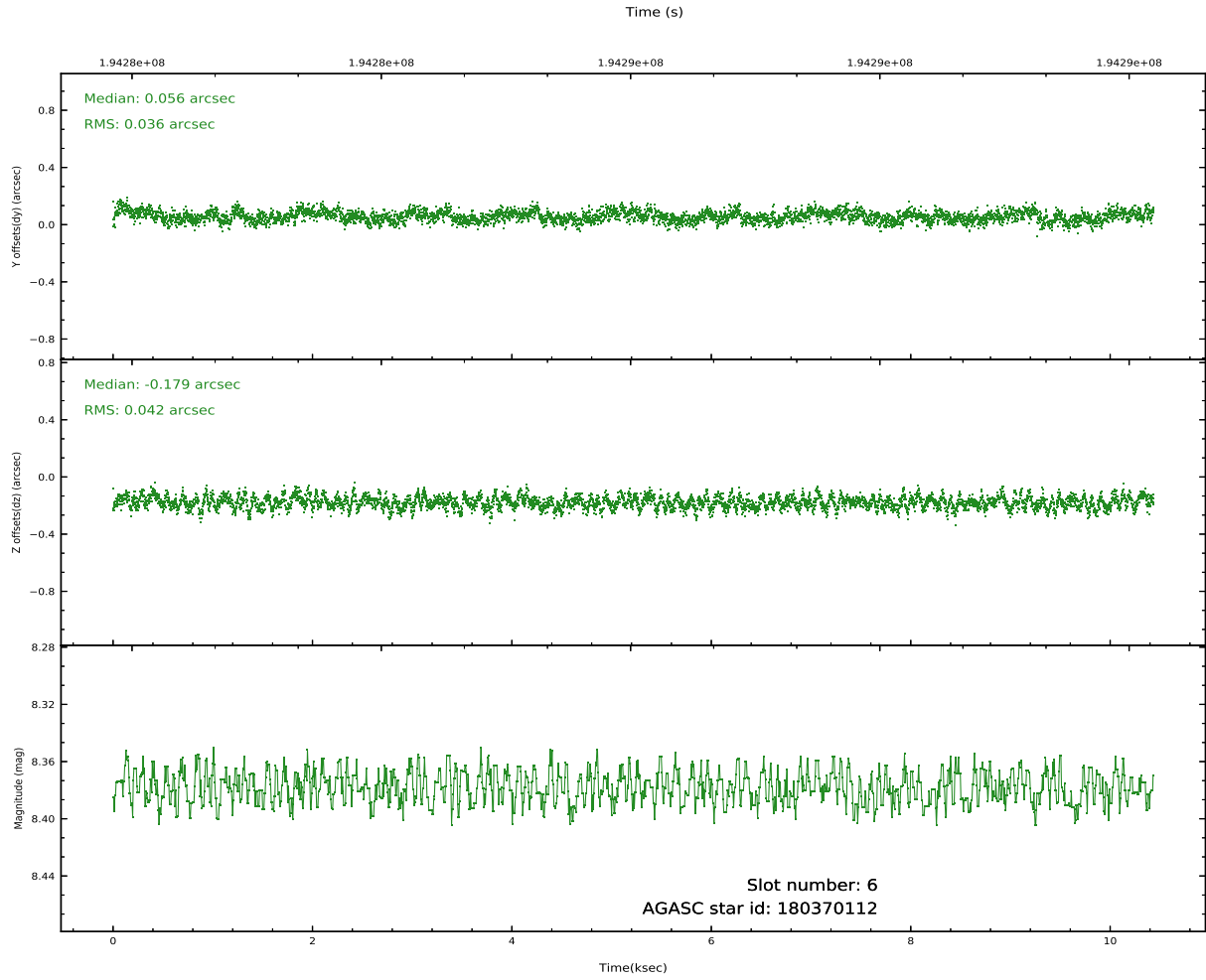
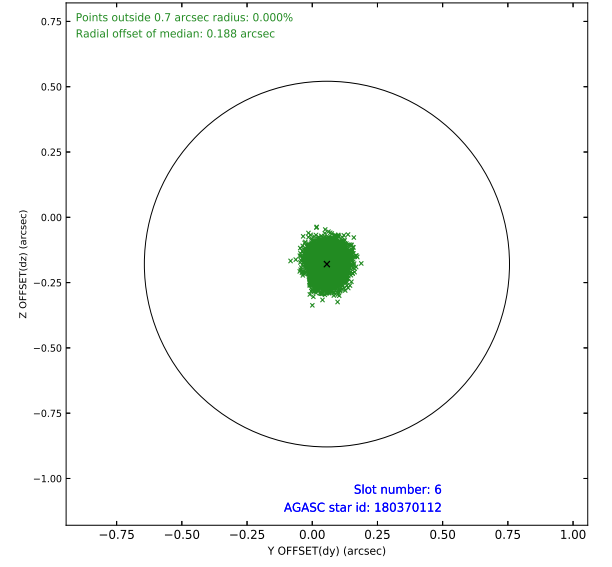
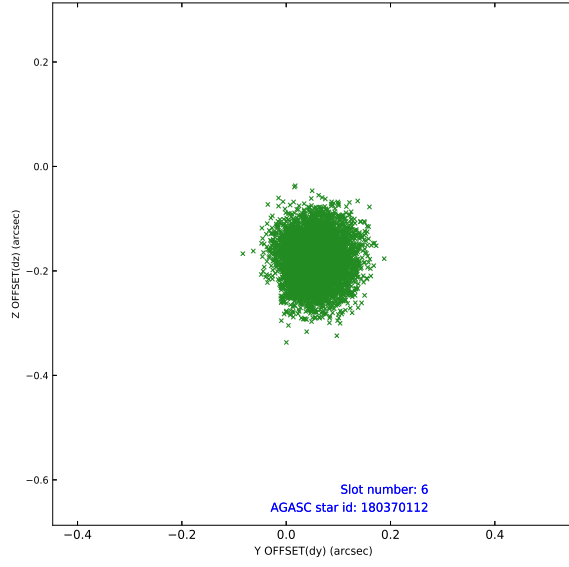
## 2.4.2 Slot 4



### 2.4.3 Slot 5

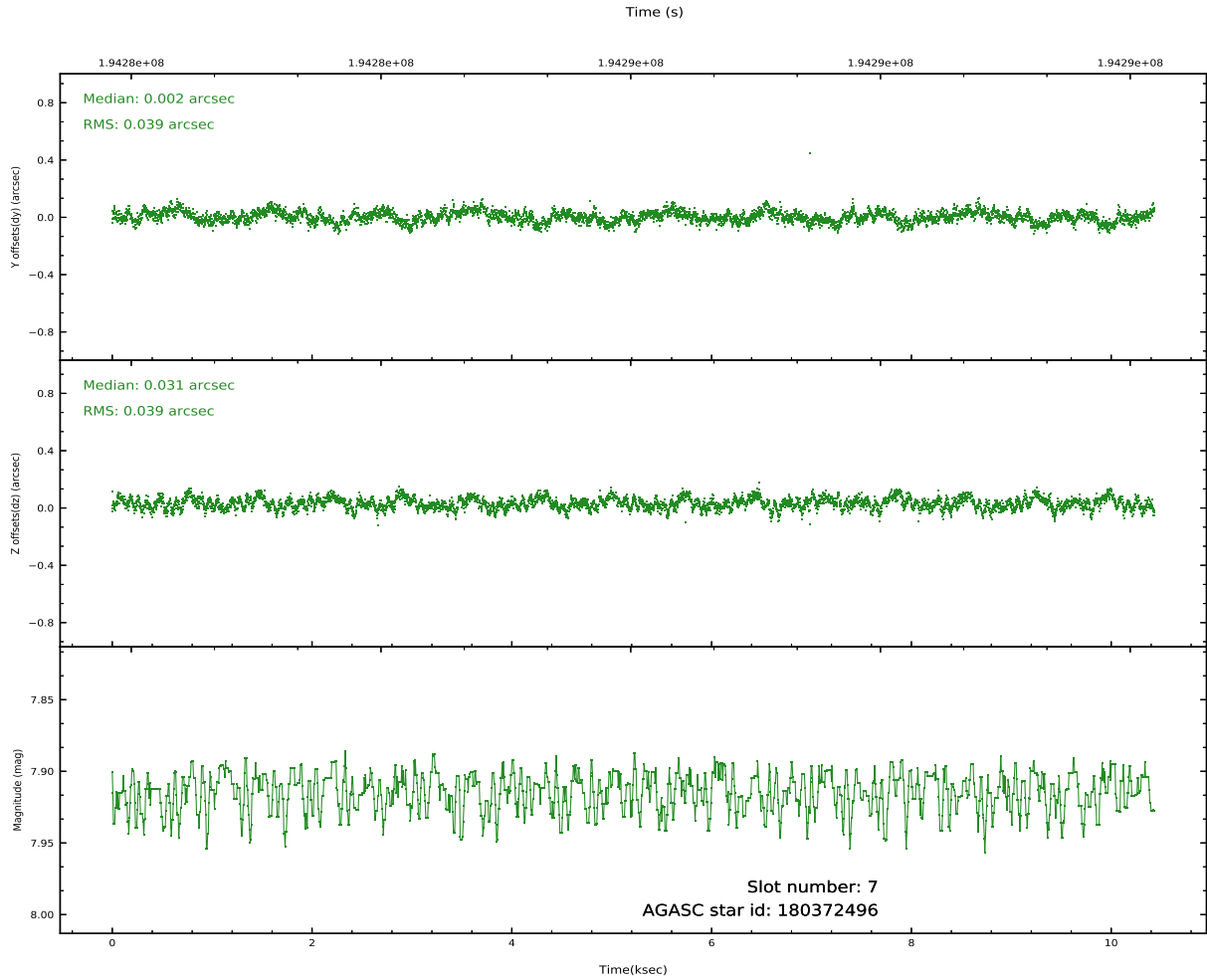
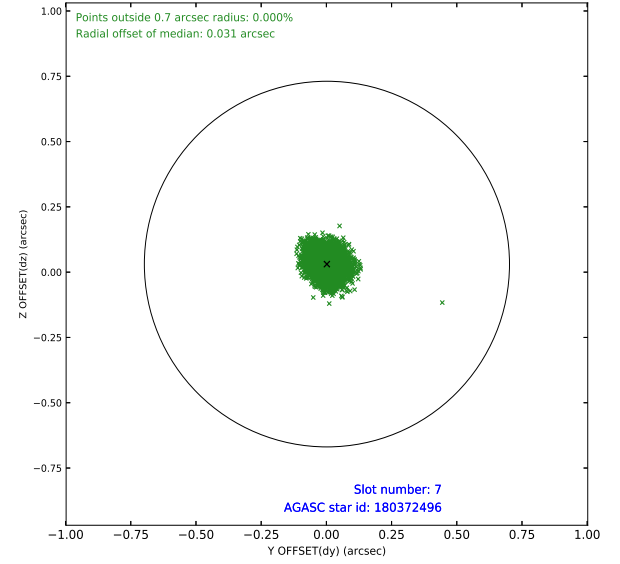
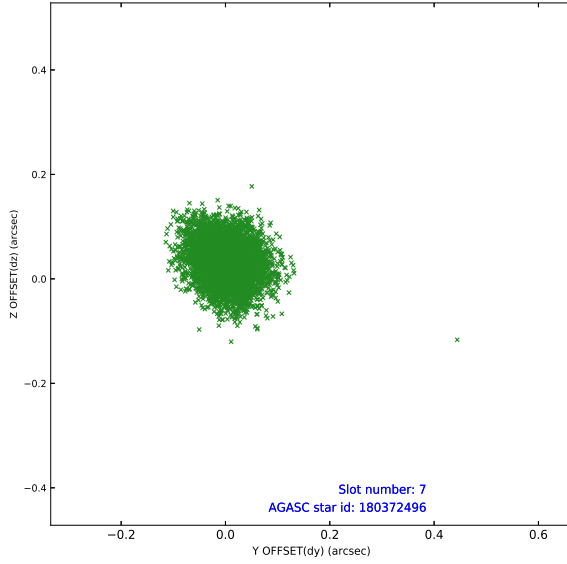


## 2.4.4 Slot 6



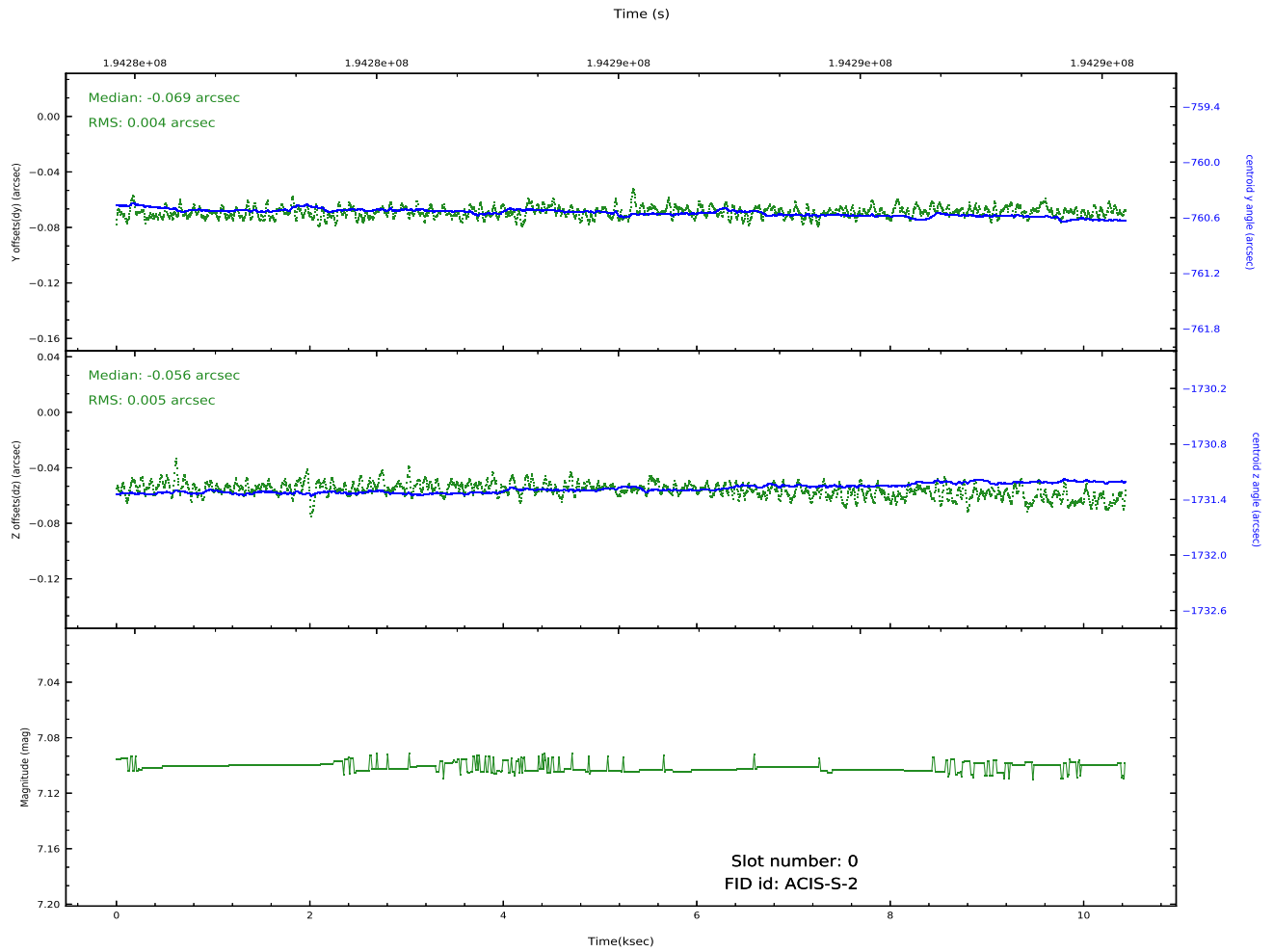
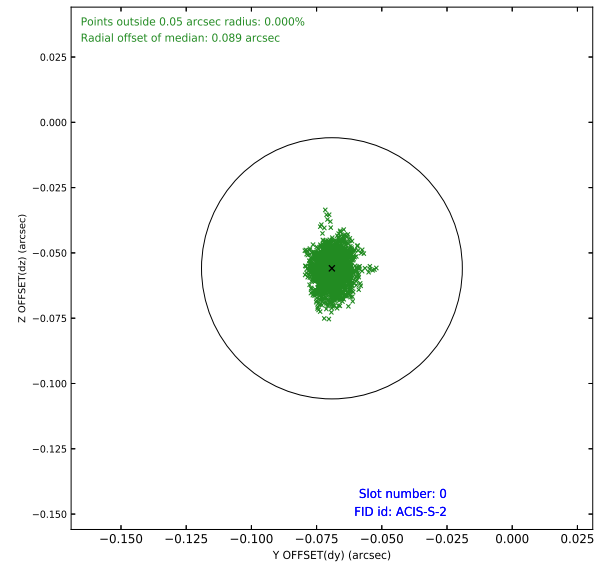
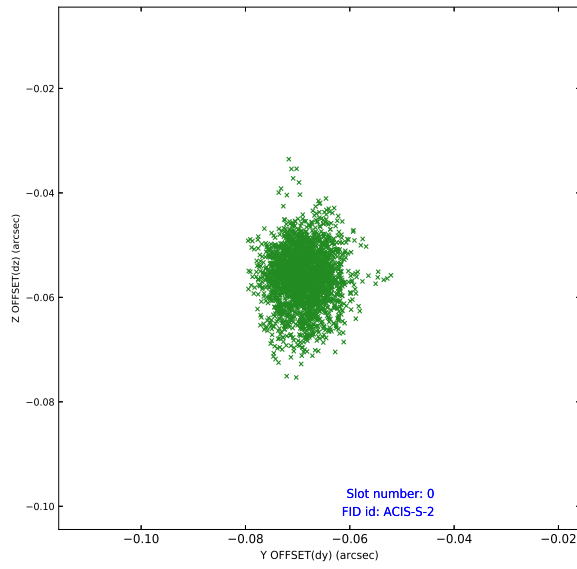


## 2.4.5 Slot 7

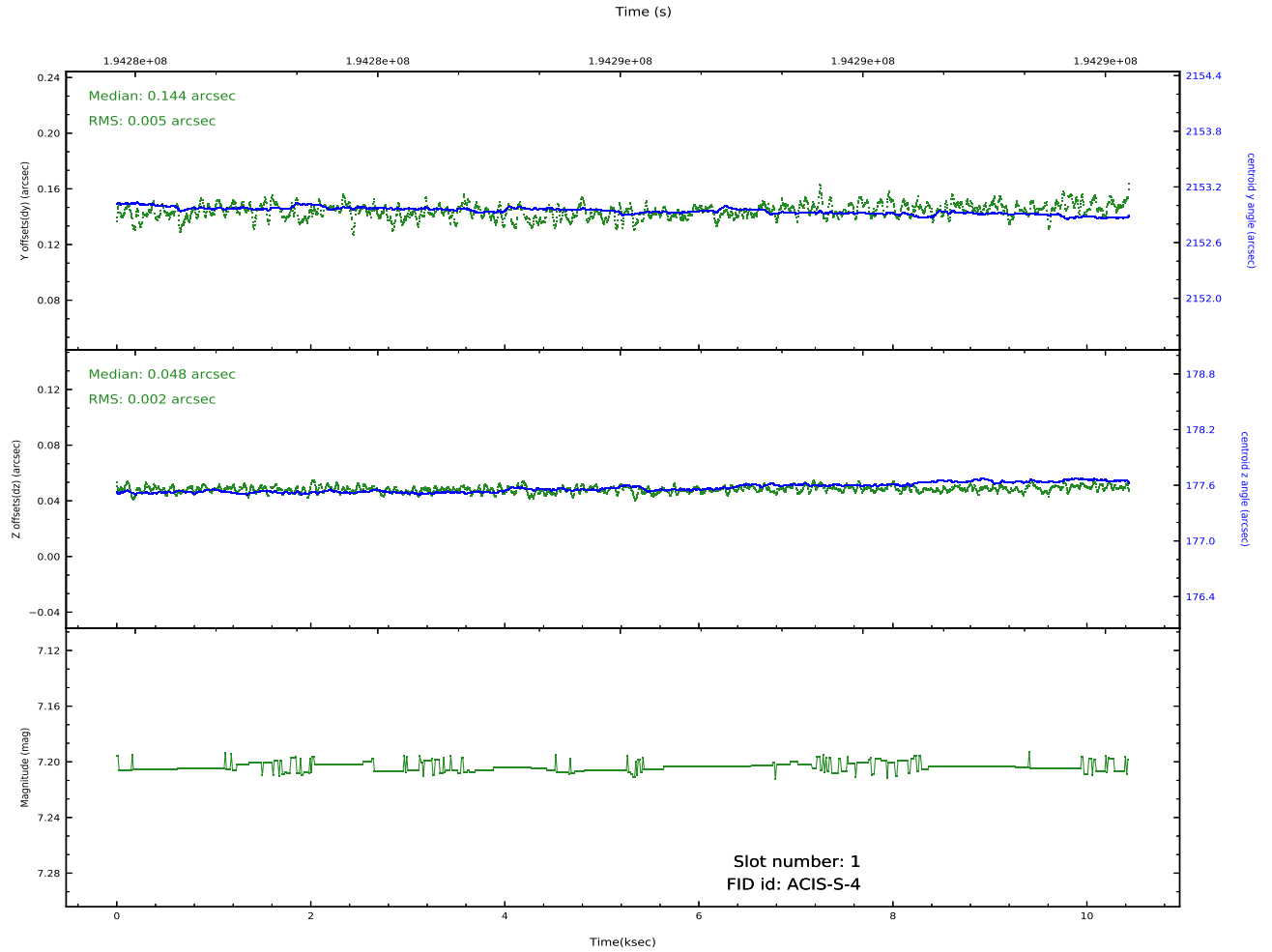
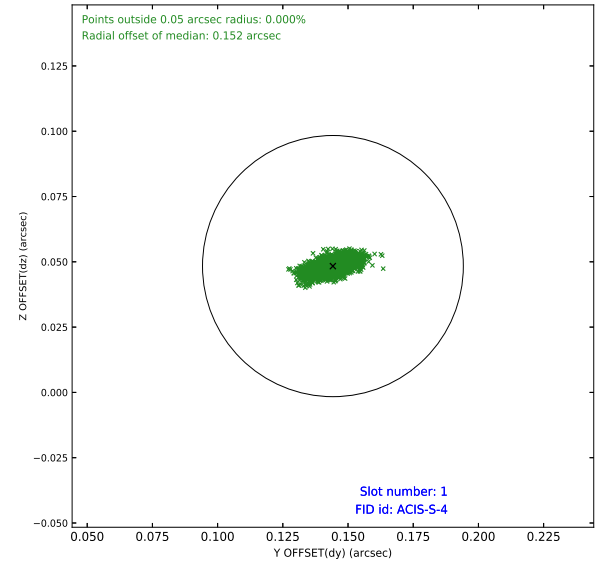
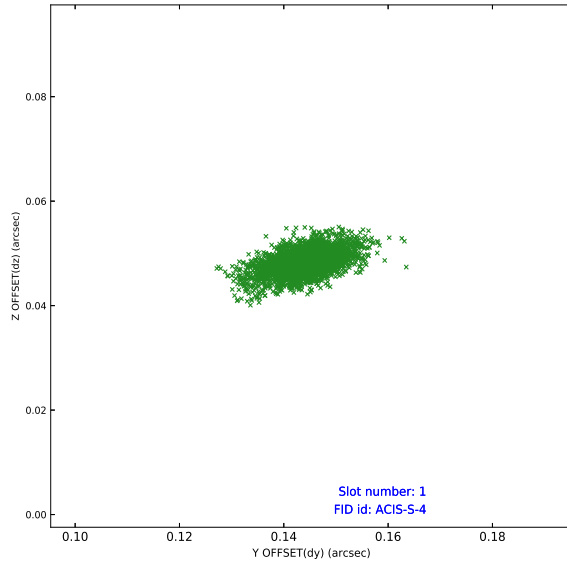


## 2.5 FID Slots

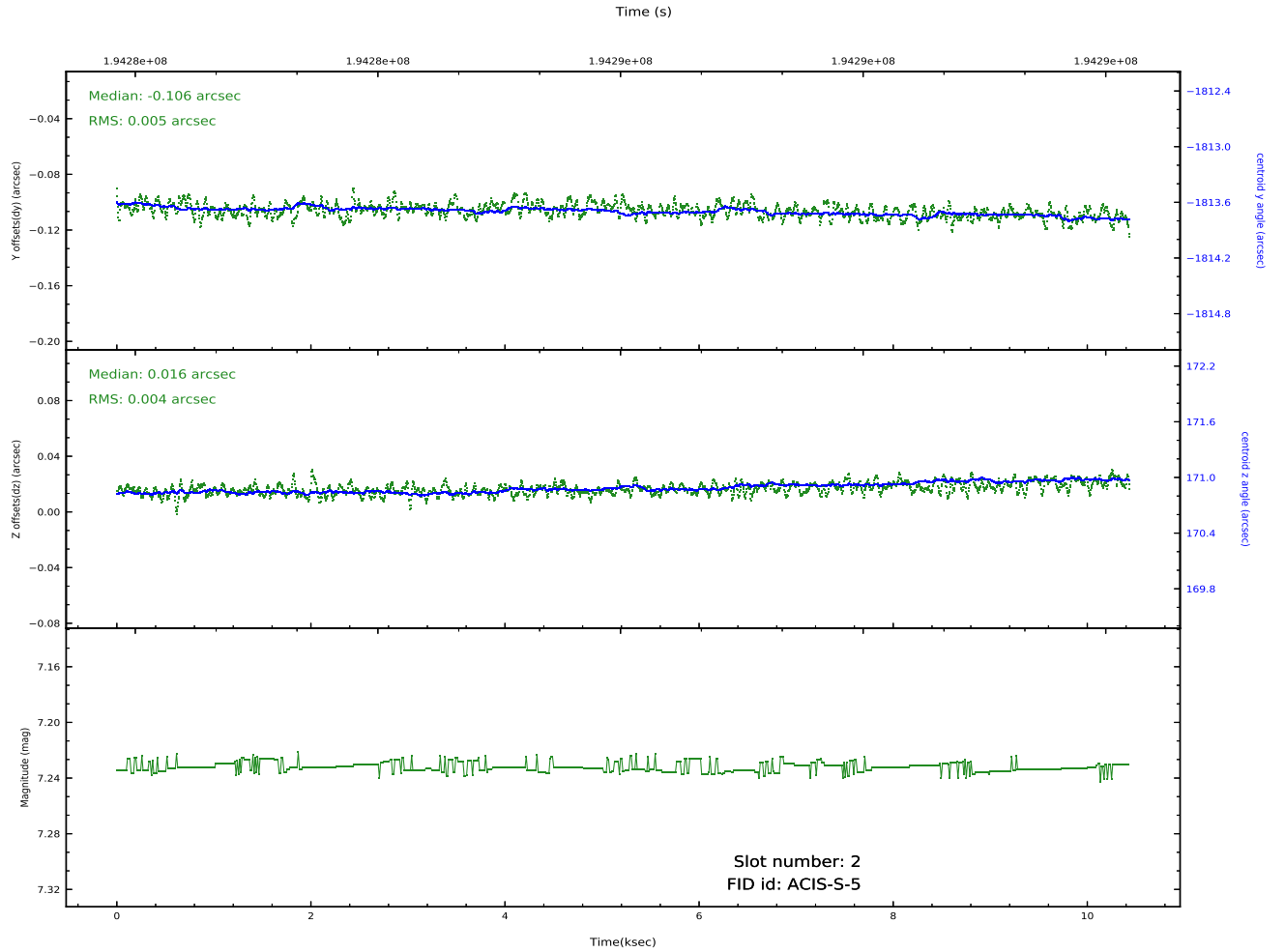
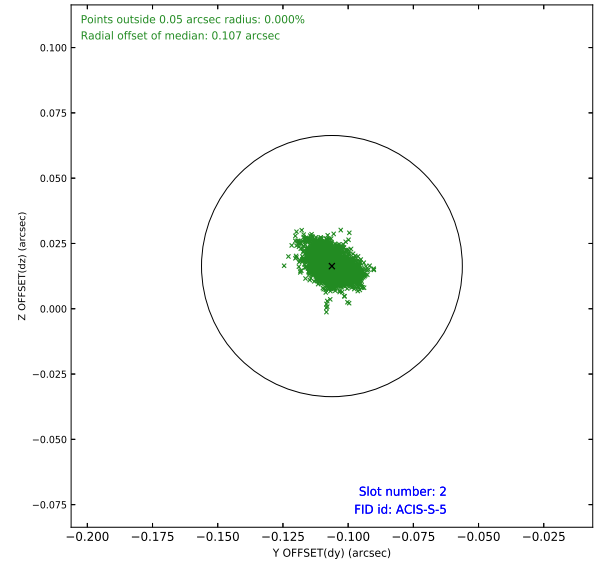
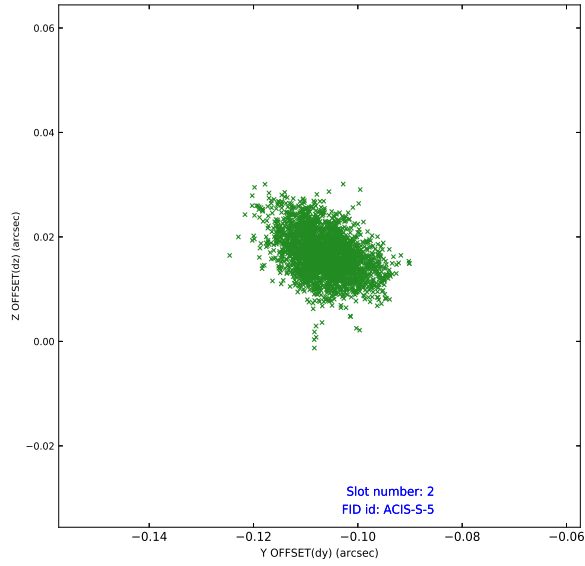
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	David Principe
V&V Date (YYYY-MM-DD)	2020.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.43

### A.2 Comments