

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5651 - L2 Version 4  
Chandra X-Ray Center

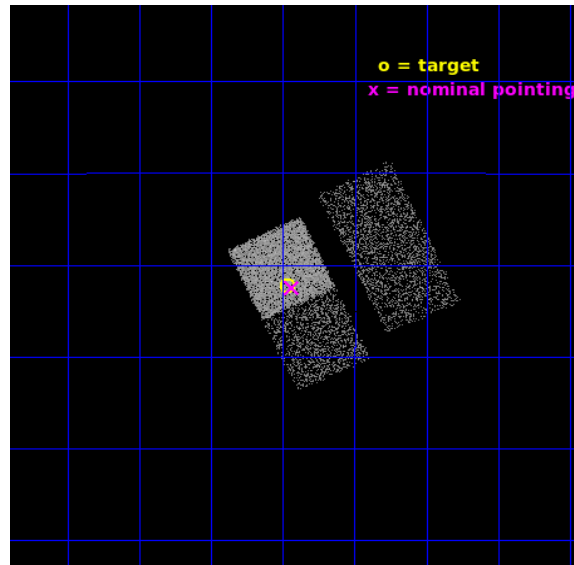
L2 Processing Date : Oct 8 2020

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# 1 Front

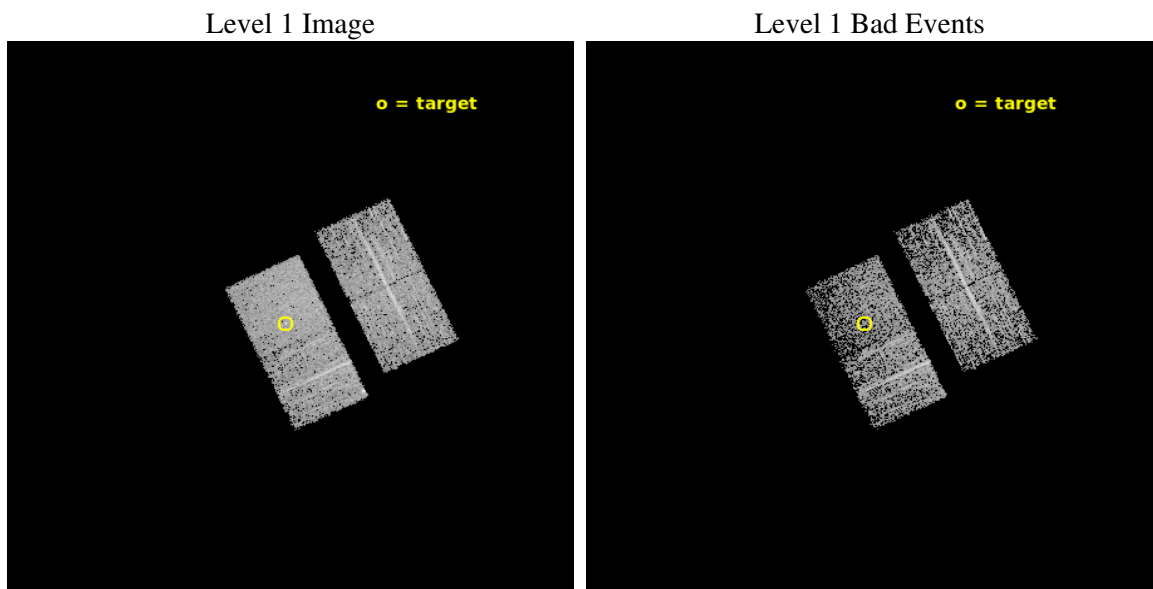
seq_num	701074	Sequence number
obs_id	5651	Observation id
title	The Spectral Energy Distribution and Fe II Emission in Intermediate-Redshift Narrow-line Seyfert 1 Galaxies	Proposal title
observer	Professor Karen Leighly	Principal investigator
object	SDSS J130158.04-014212.1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	195.491667	Observer's specified target RA [deg]
dec_targ	-1.703361	Observer's specified target Dec [deg]
ra_nom	195.48438236705	Nominal RA [deg]
dec_nom	-1.7077536591266	Nominal Dec [deg]
roll_nom	244.68687763569	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3180.5999938548	Sum of GTIs [s]
livetime	3139.0431134114	Livetime [s]
ontime2	3180.5999938548	Sum of GTIs [s]
ontime3	3180.5999938548	Sum of GTIs [s]
ontime6	3180.5999938548	Sum of GTIs [s]
ontime7	3180.5999938548	Sum of GTIs [s]
l2events	14733	Number of level 2 events



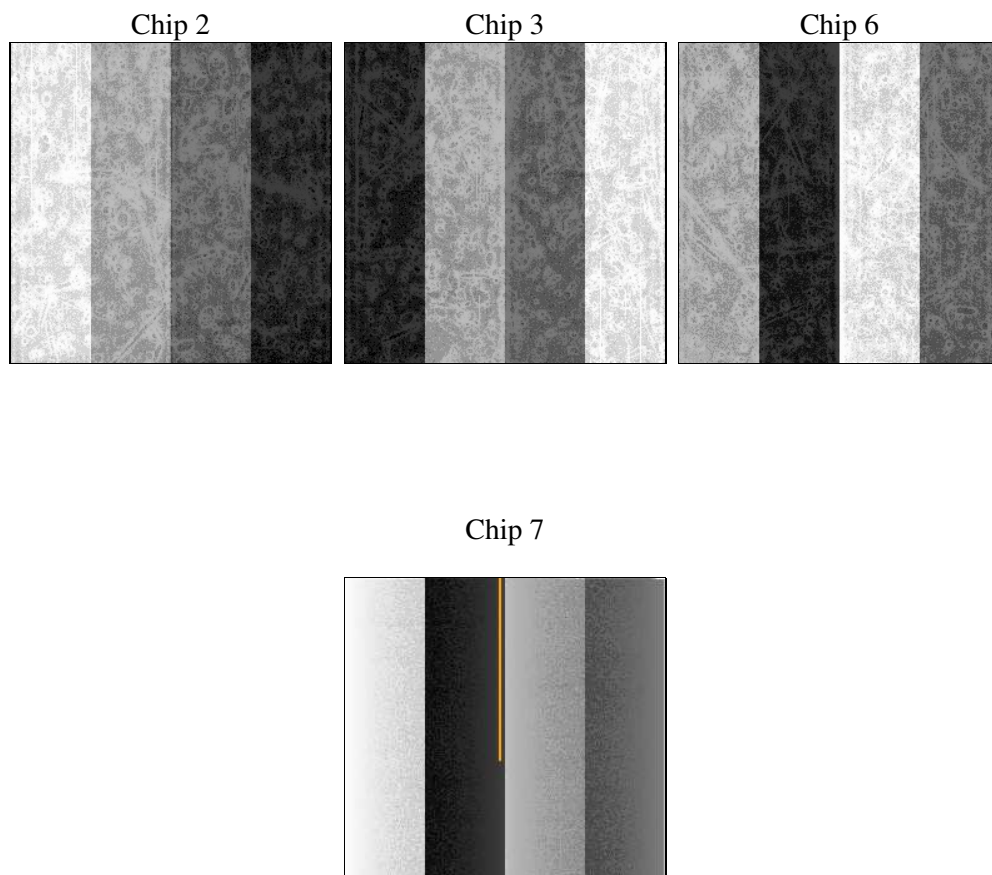
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	3180.5999938548	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime2	3180.5999938548	Sum of GTIs [s]
date	2020-10-08T18:25:22	Date and time of file creation	ontime3	3180.5999938548	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	3180.5999938548	Sum of GTIs [s]
			ontime7	3180.5999938548	Sum of GTIs [s]
			l1events	85027	Number of level 1 events

### 2.1.4 Events

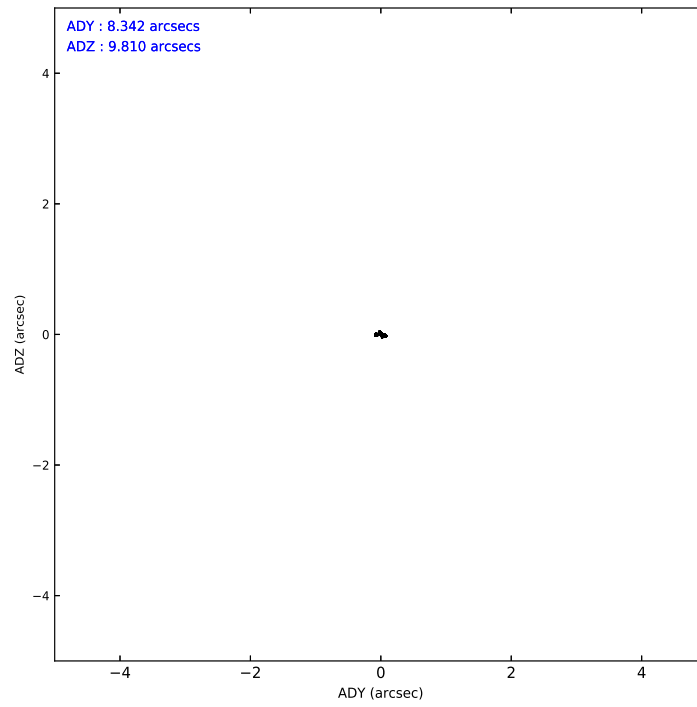
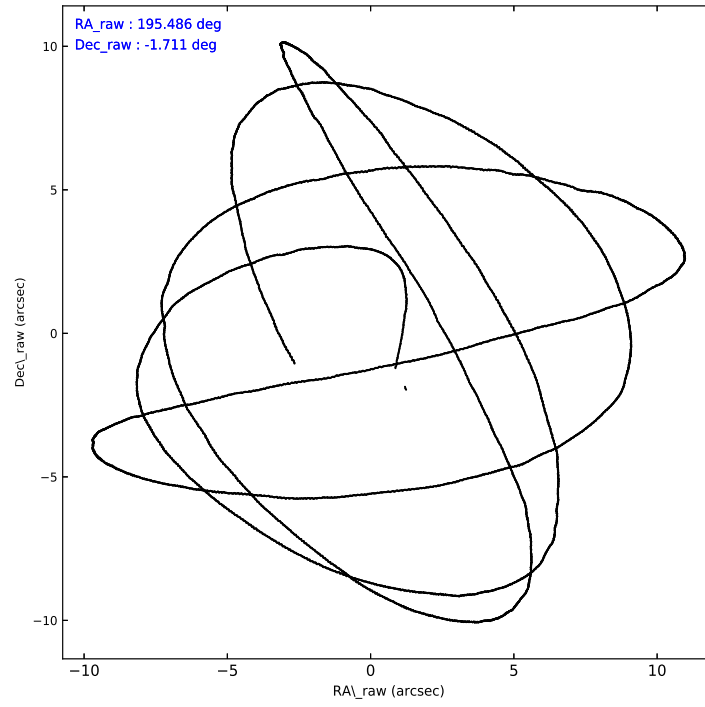
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	20466	19814	21247	23500
rejected events	18578	18049	18958	13229
rejected %	90%	91%	89%	56%

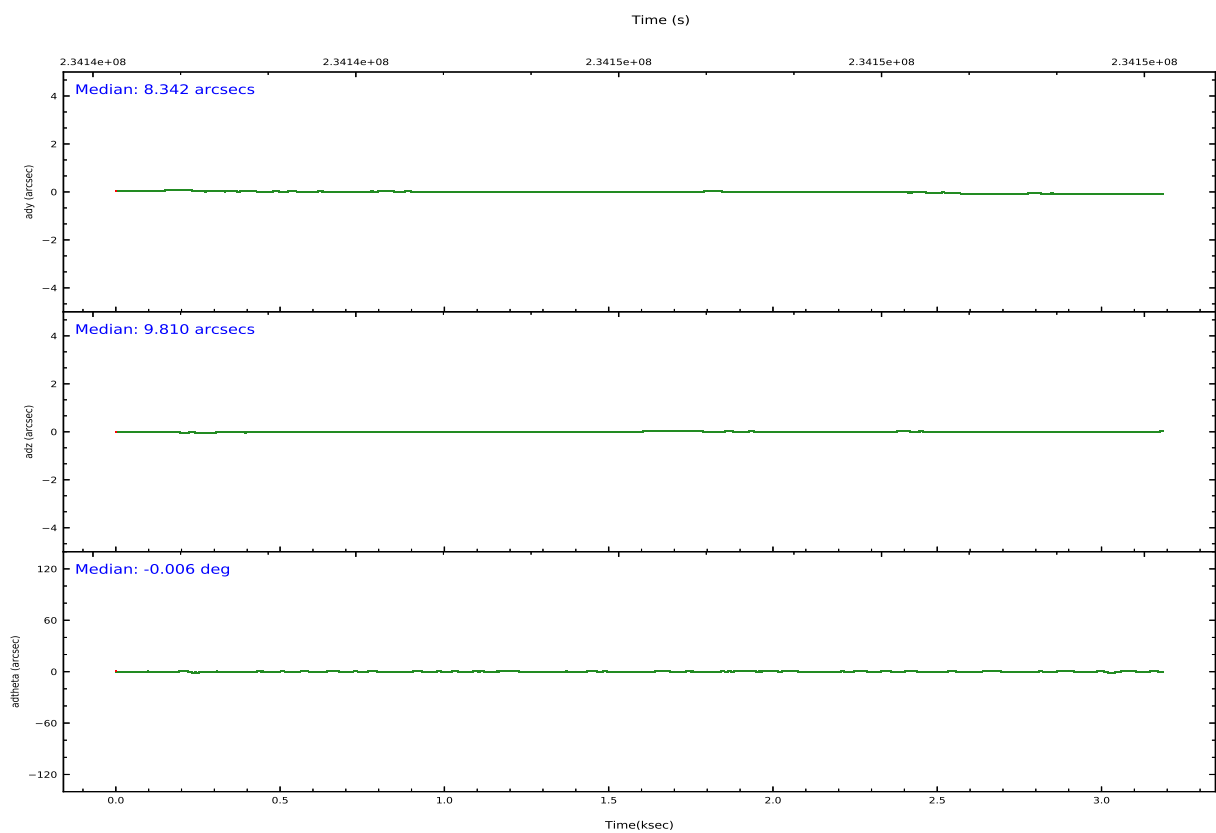
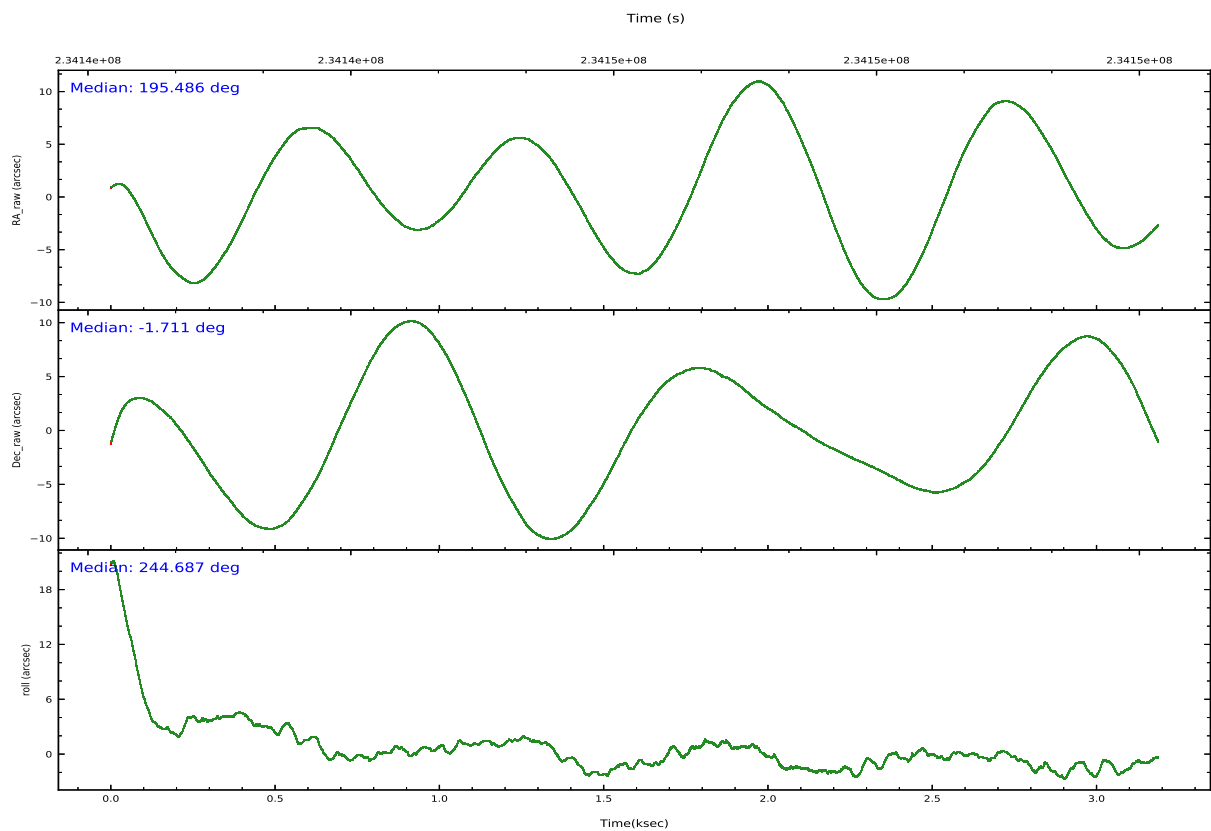
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	720	637	1052	1047
	3%	3%	4%	4%
grade 1 events	13	10	14	18
	0%	0%	0%	0%
grade 2 events	470	375	437	2139
	2%	1%	2%	9%
grade 3 events	217	240	249	1033
	1%	1%	1%	4%
grade 4 events	214	222	252	1008
	1%	1%	1%	4%
grade 5 events	757	867	844	2509
	3%	4%	3%	10%
grade 6 events	395	367	438	5590
	1%	1%	2%	23%
grade 7 events	17680	17096	17961	10156
	86%	86%	84%	43%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-2367	ACIS-2367	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	195.483471	195.48438236705	Subarray requested	NONE	NONE
[deg] Pointing Dec	-1.684140	-1.7077536591266	Alternating exposures requested	N	N
[deg] Pointing Roll	244.532908	244.68687763569	[s] Primary exposure time	0.000000	3.1
[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)	234144257.184000	234143091.02396			
Observation start date	2005-06-03T00:03:13	2005-06-02T23:44:51			
[s] Observation end time (MET)	234147257.184000	234148026.39919			
Observation end date	2005-06-03T00:53:13	2005-06-03T01:07:06			
Read mode	TIMED	TIMED			

## 2.3 Aspect





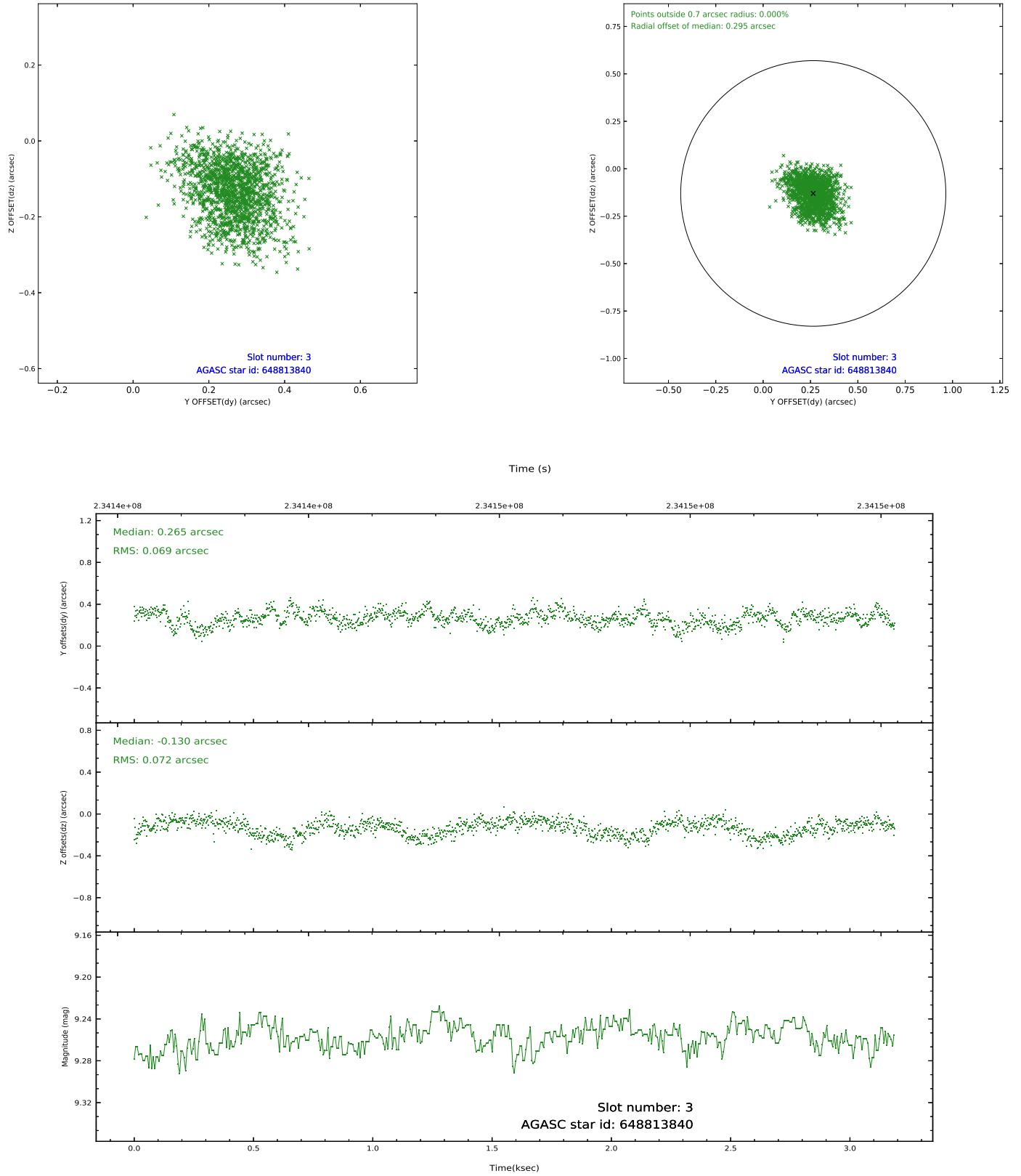
Slot Statistics

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	7.11	778	1.000	-0.072	-0.075	0.006	0.010	0.000000	0.000000	-761.12	-1731
1	FID		ACIS-S-4	7.21	778	1.000	0.197	0.055	0.006	0.012	0.000000	0.000000	2151.44	175
2	FID		ACIS-S-5	7.23	778	1.000	-0.156	0.029	0.007	0.011	0.000000	0.000000	-1811.56	171
3	GUIDE	used	648813840	9.26	1553	1.000	0.265	-0.130	0.106	0.170	194.717621	-1.945504	2036.04	-2081
4	GUIDE	used	649730488	7.82	1555	1.000	-0.100	-0.241	0.071	0.109	195.031921	-1.185947	-918.50	-2239
5	GUIDE	used	649732424	10.04	1555	1.000	-0.062	0.217	0.120	0.199	196.234606	-1.442922	-1946.62	2066
6	GUIDE	used	649732968	9.34	1553	1.000	-0.083	0.041	0.080	0.129	195.738103	-1.507213	-970.29	555
7	GUIDE	used	649733928	9.96	1549	1.000	-0.019	0.121	0.127	0.211	196.067923	-1.879789	-268.79	2202

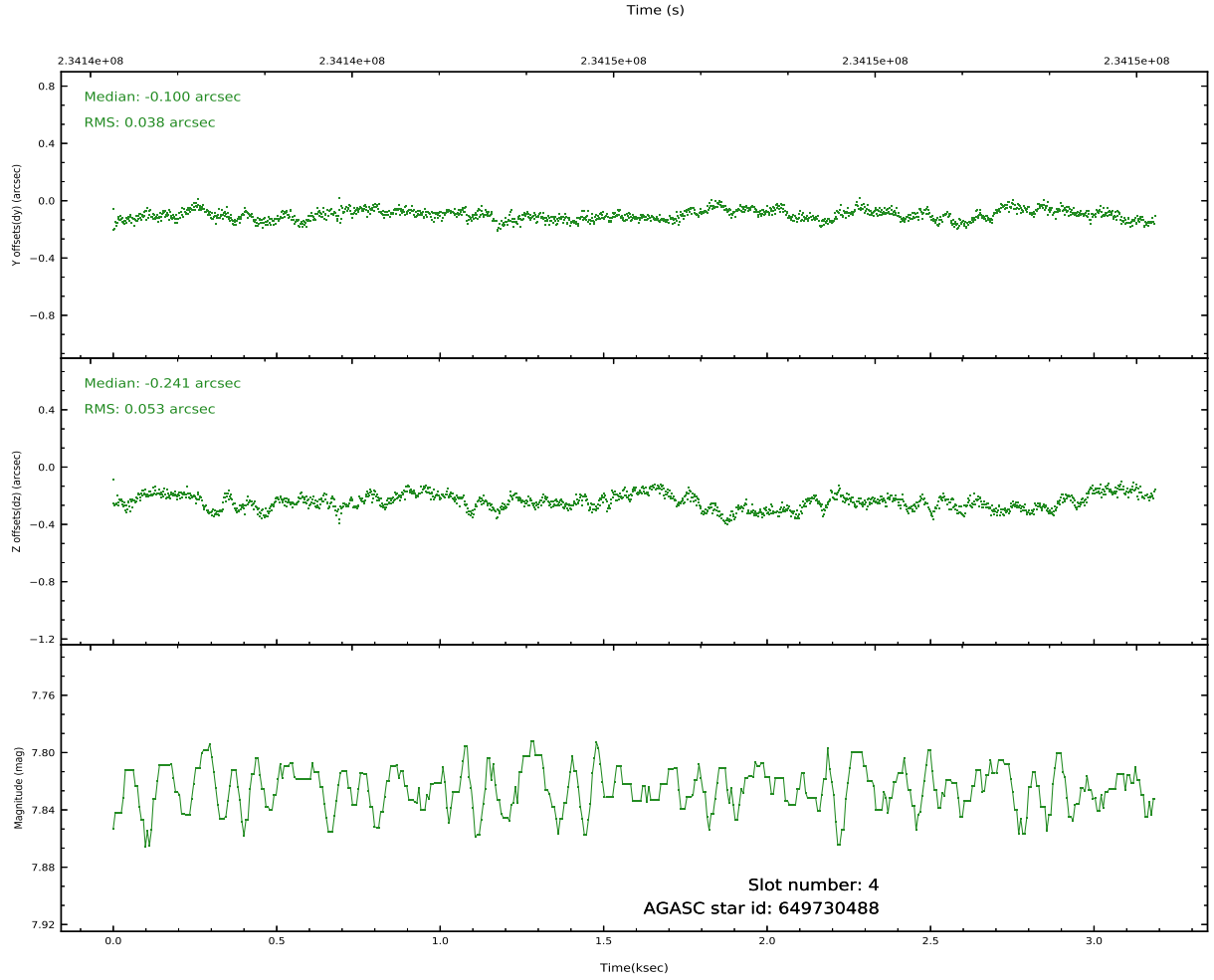
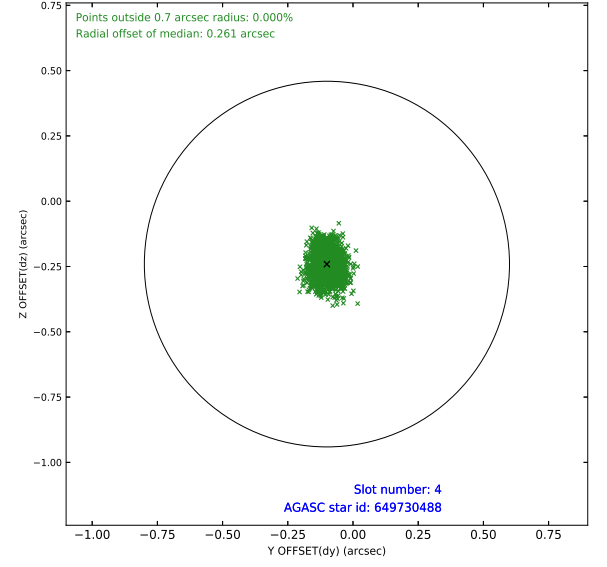
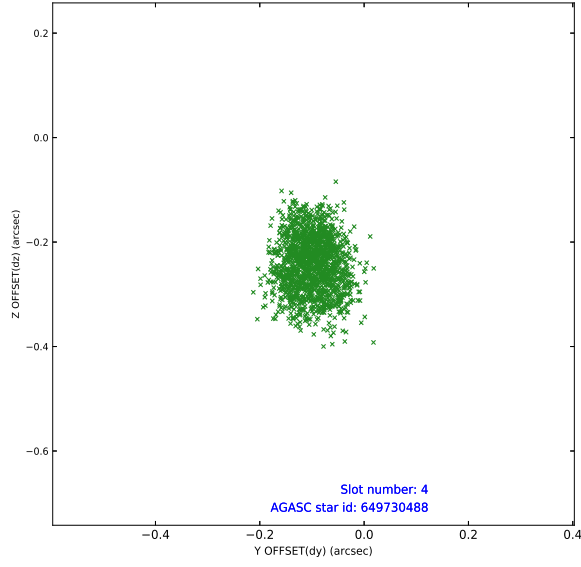


## 2.4 Star Slots

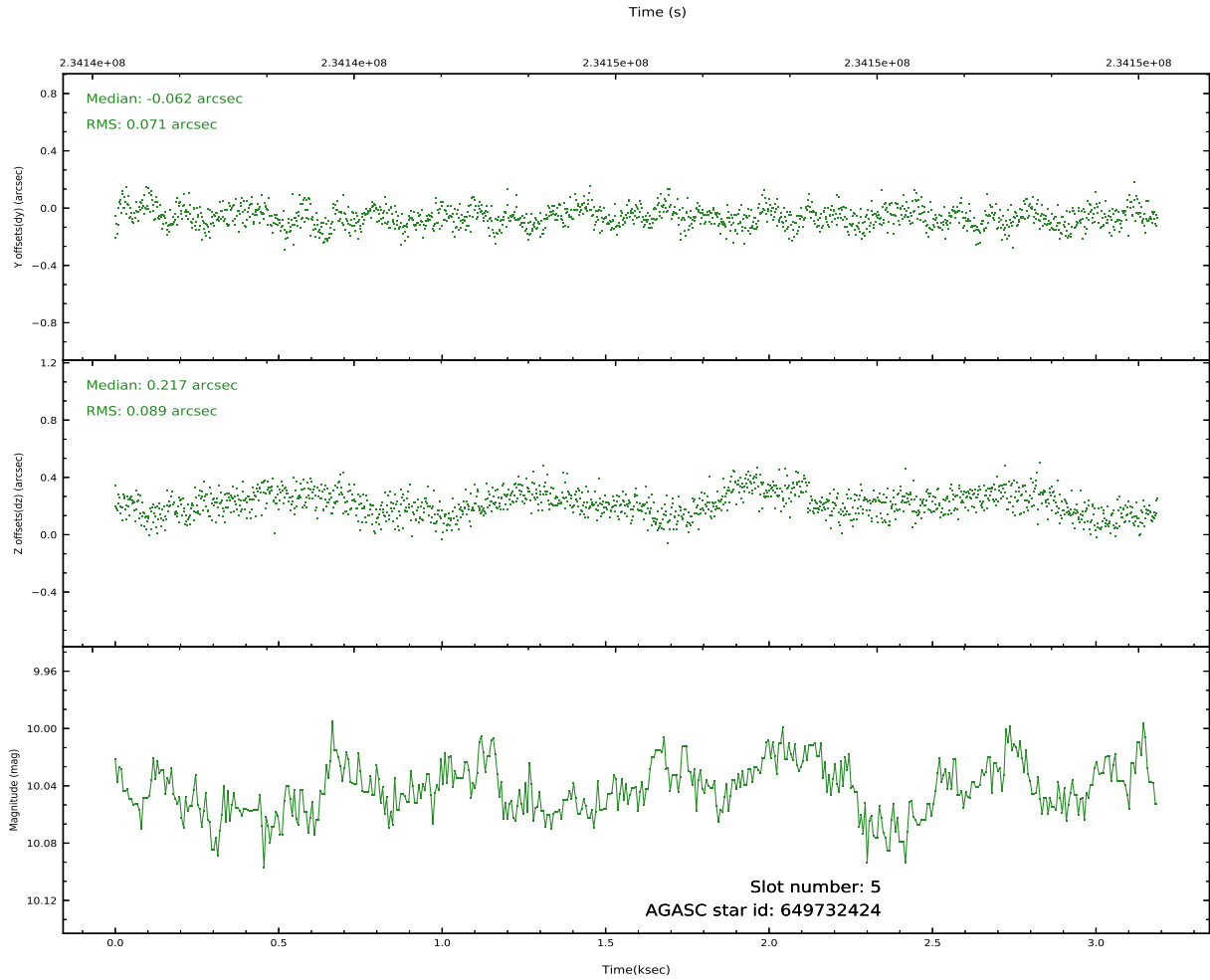
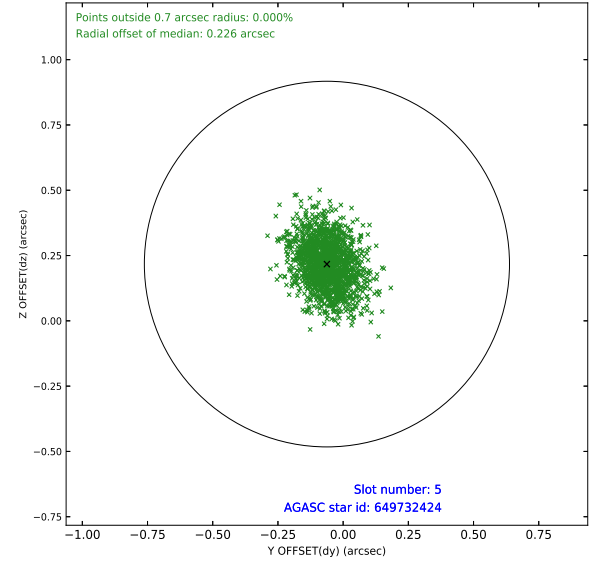
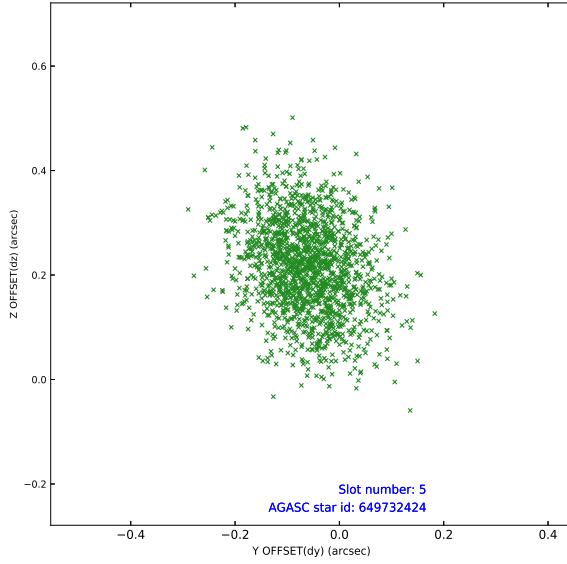
### 2.4.1 Slot 3



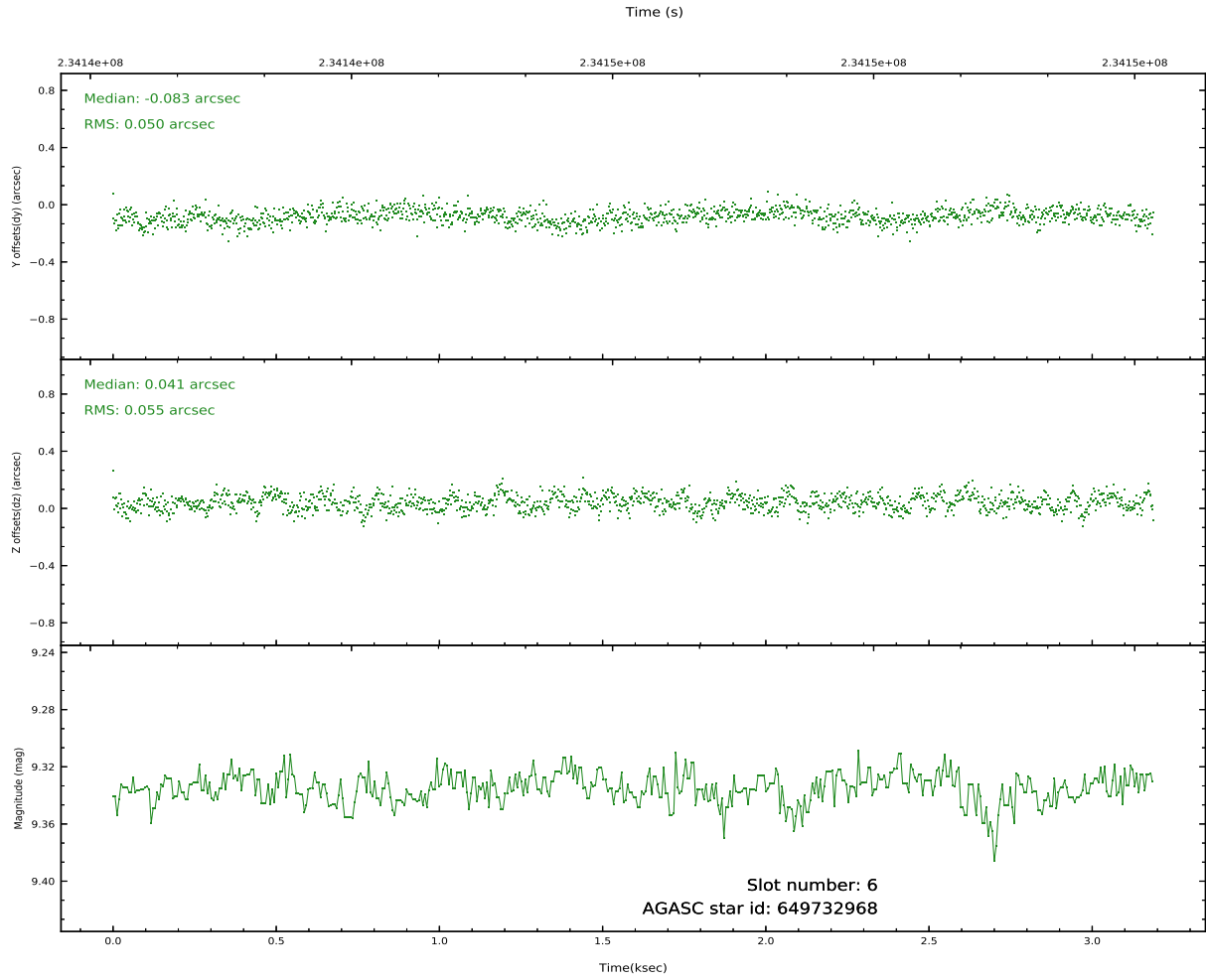
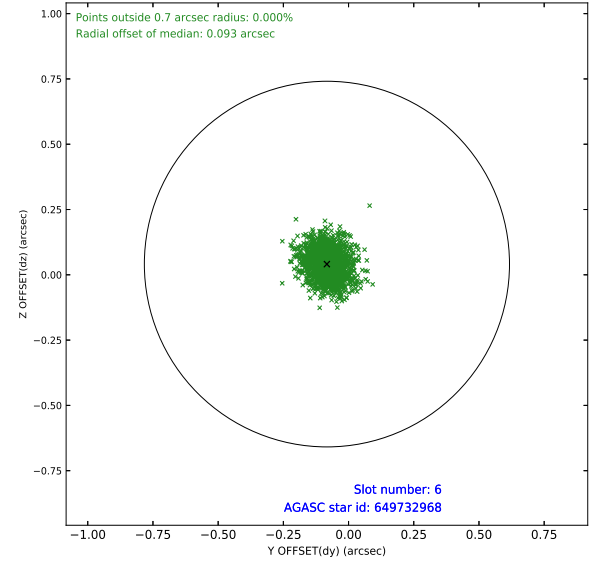
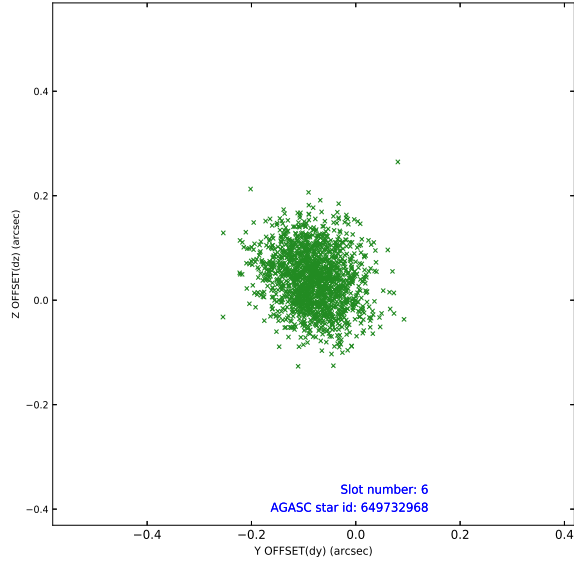
## 2.4.2 Slot 4



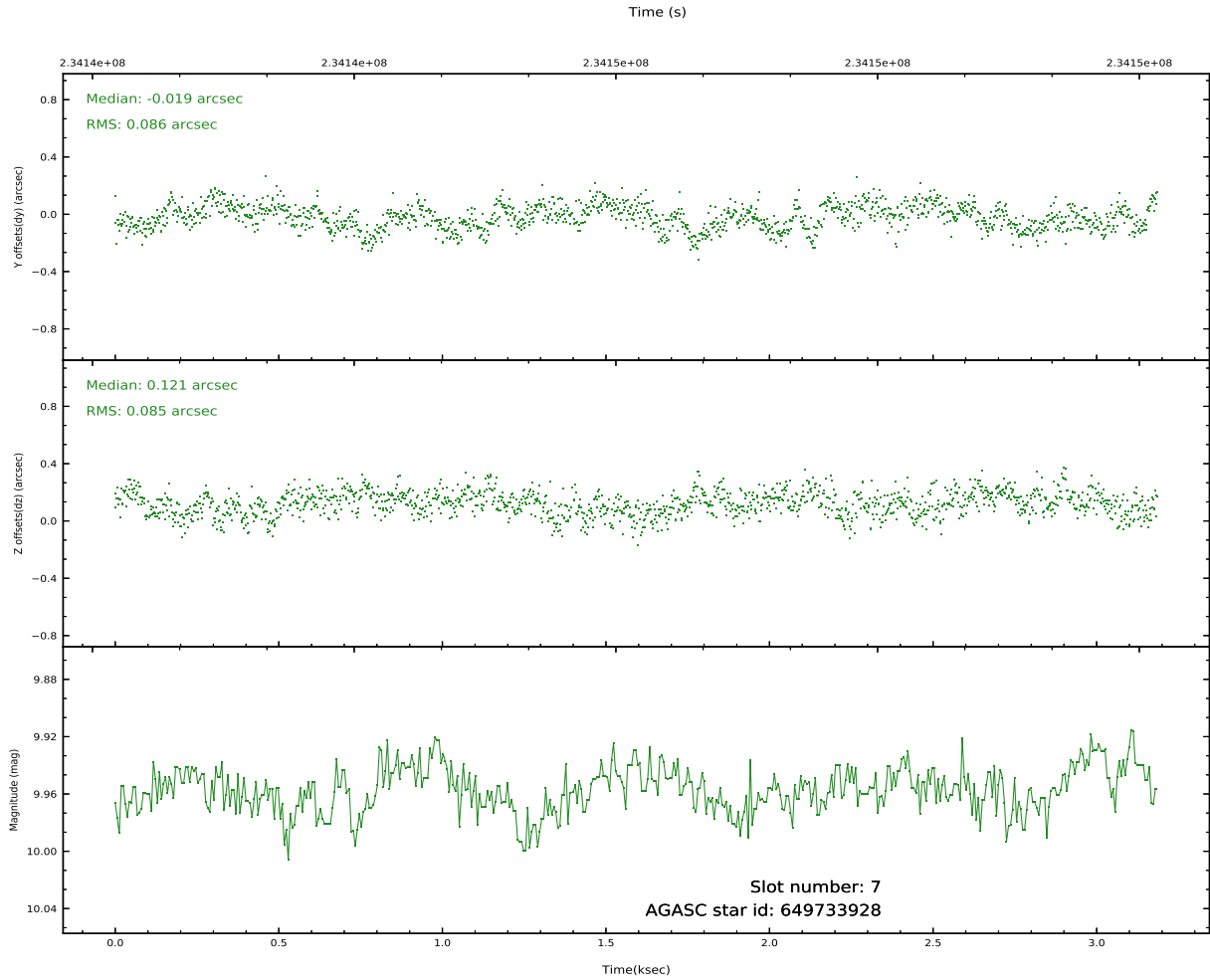
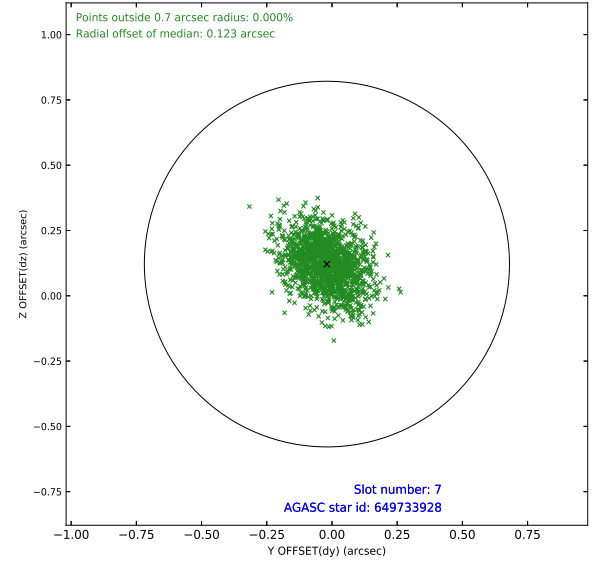
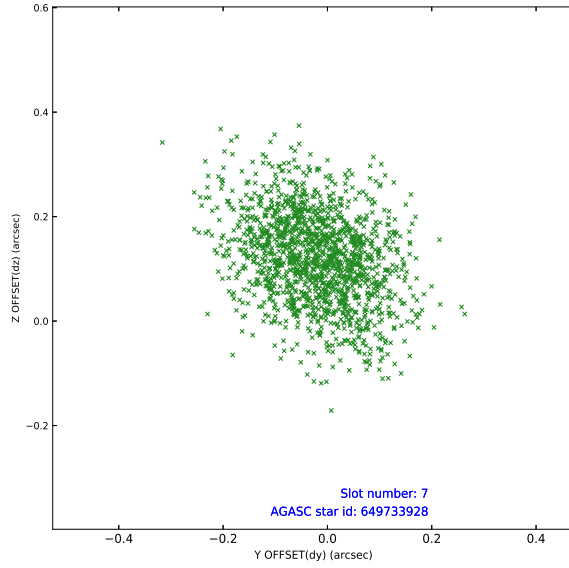
### 2.4.3 Slot 5



## 2.4.4 Slot 6

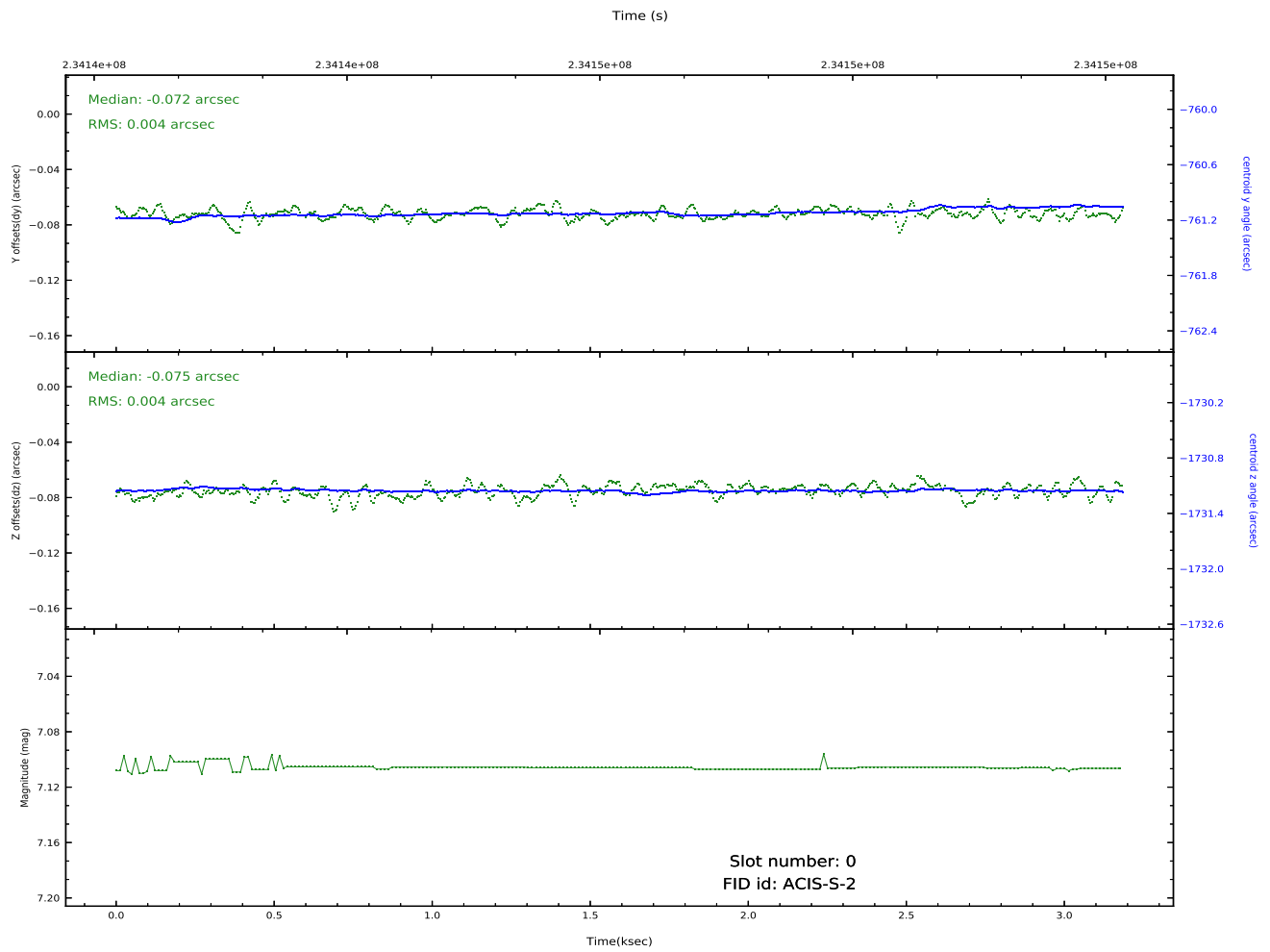
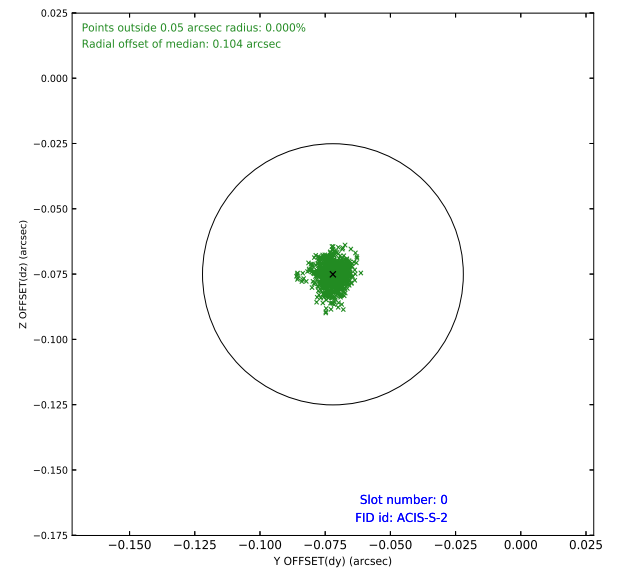
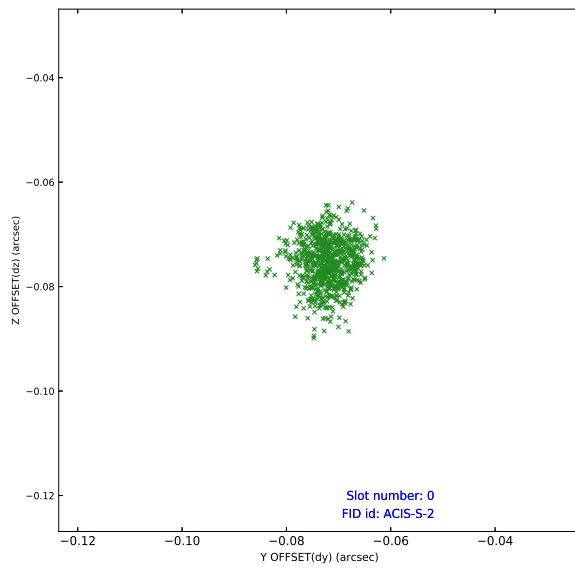


## 2.4.5 Slot 7

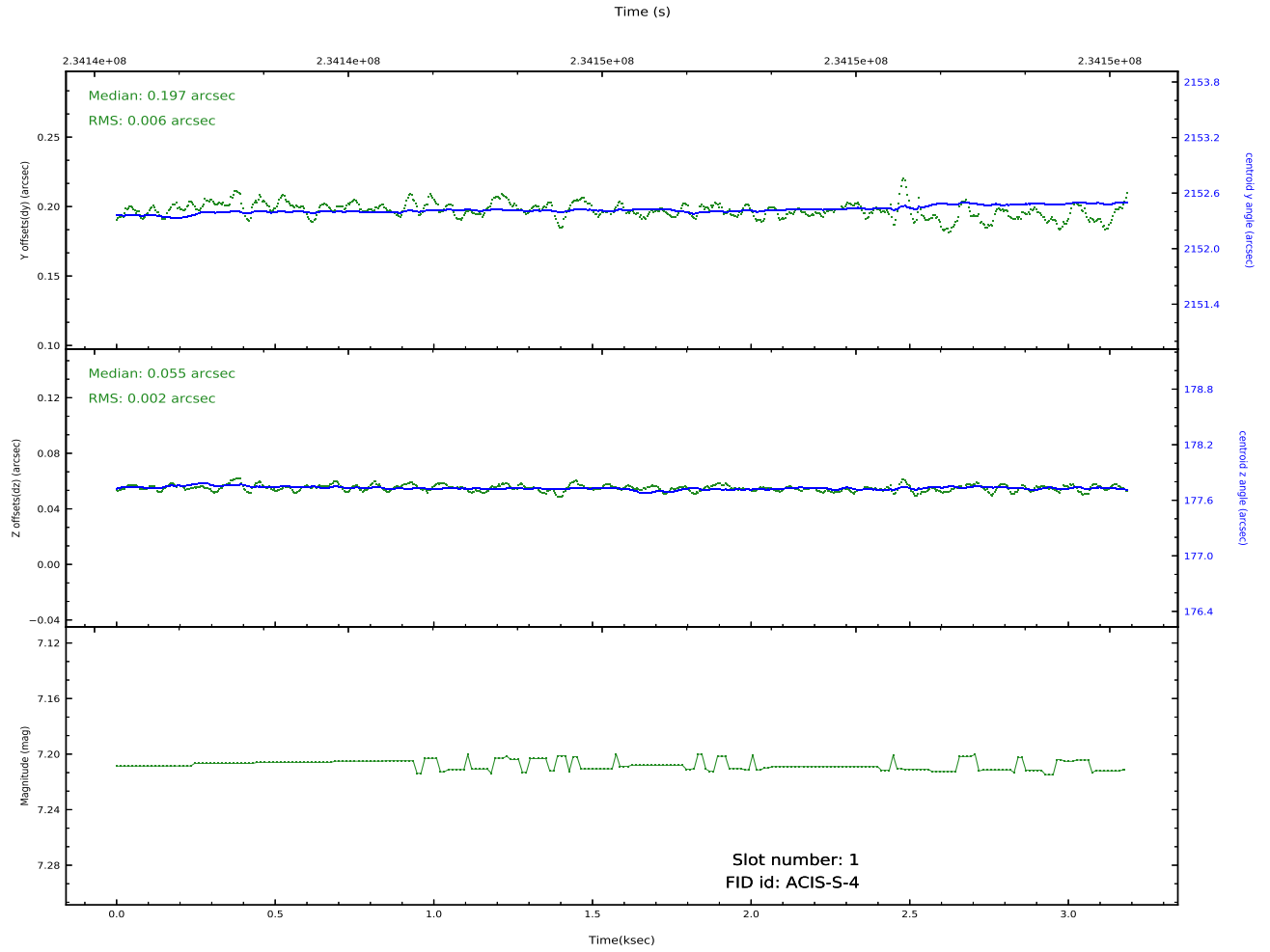
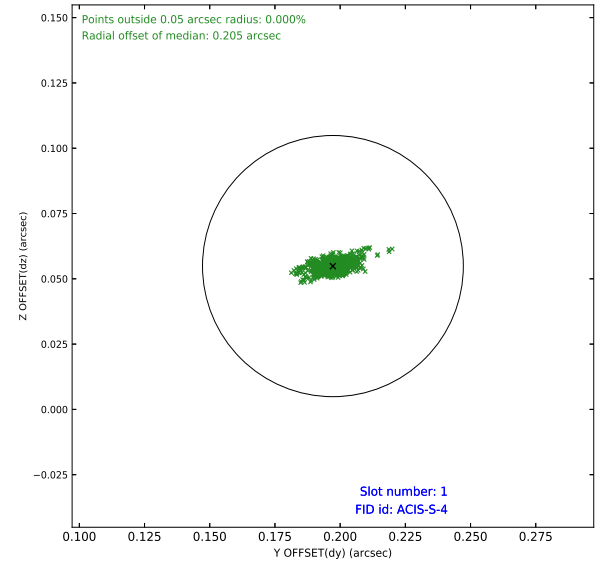
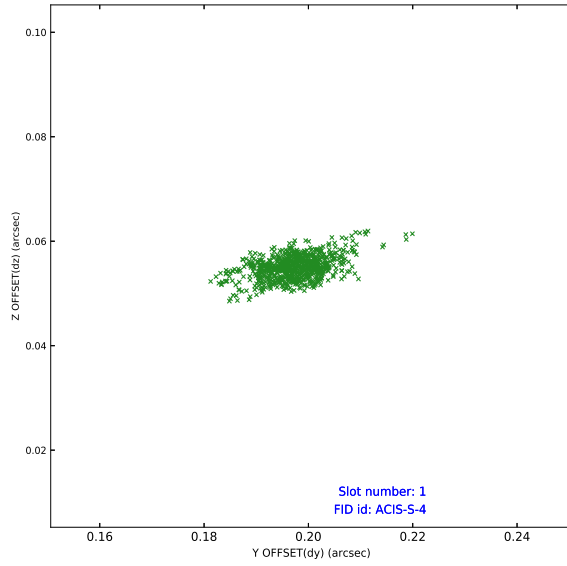


## 2.5 FID Slots

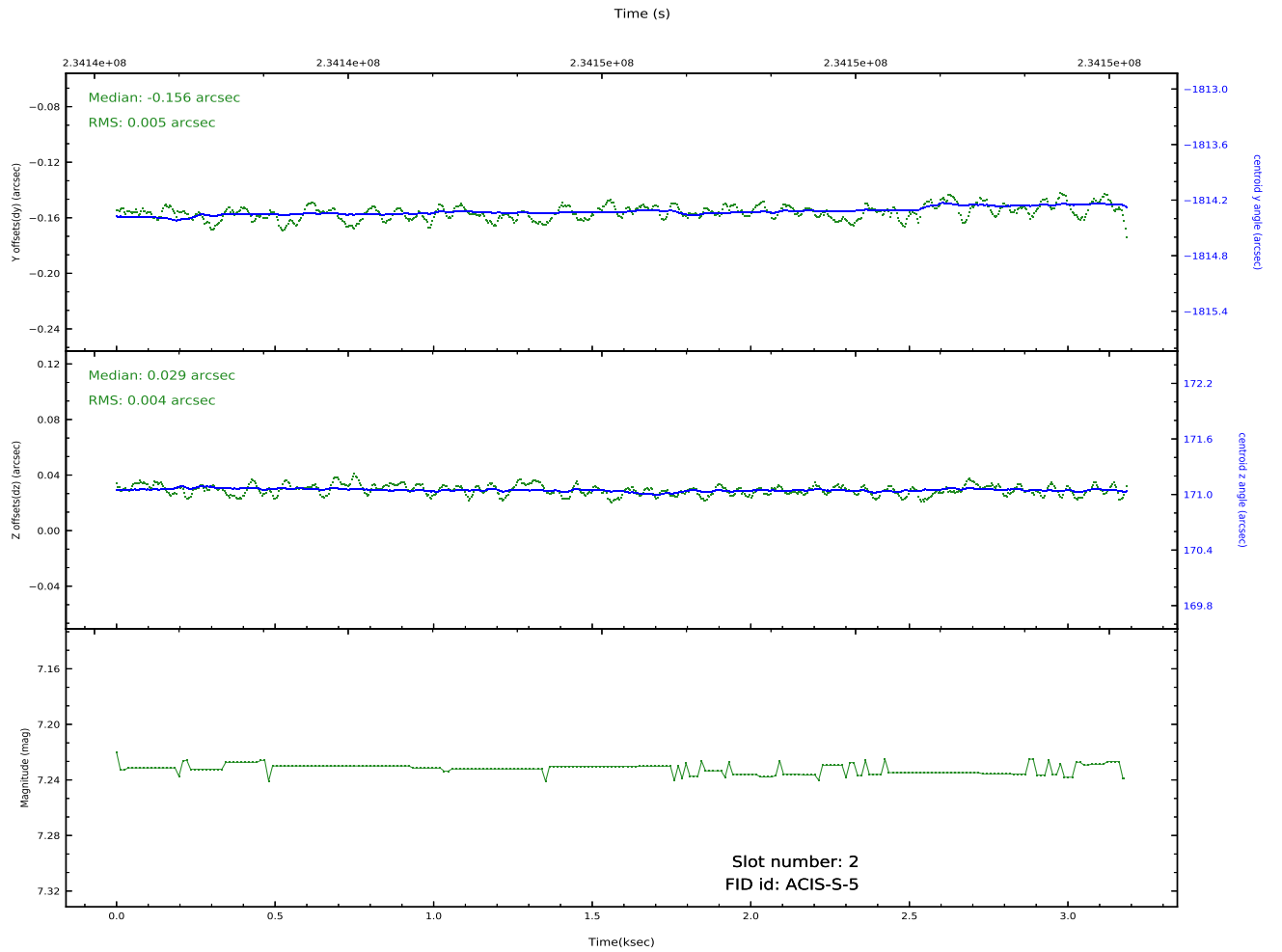
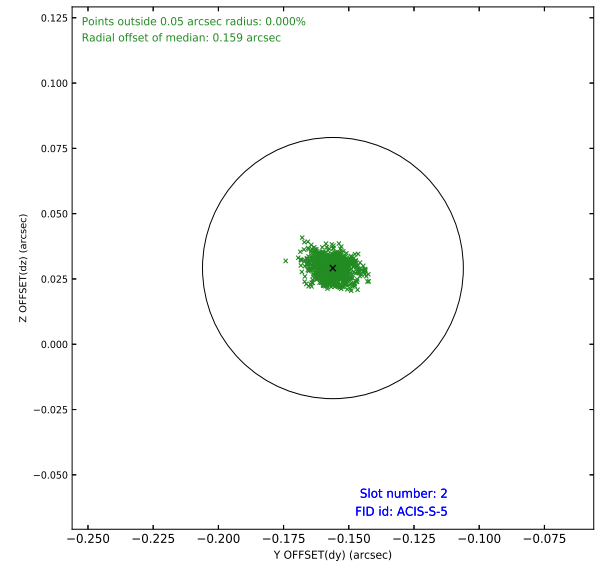
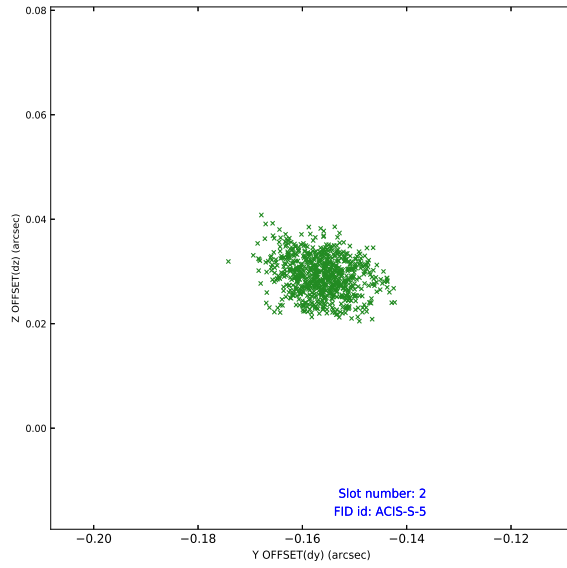
### 2.5.1 Slot 0



## 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)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.180599

### **A.2 Comments**