

# V&V Reference Report

## L2 ASCDS Version : 10.9

Observation 23362 - L2 Version 1  
Chandra X-Ray Center

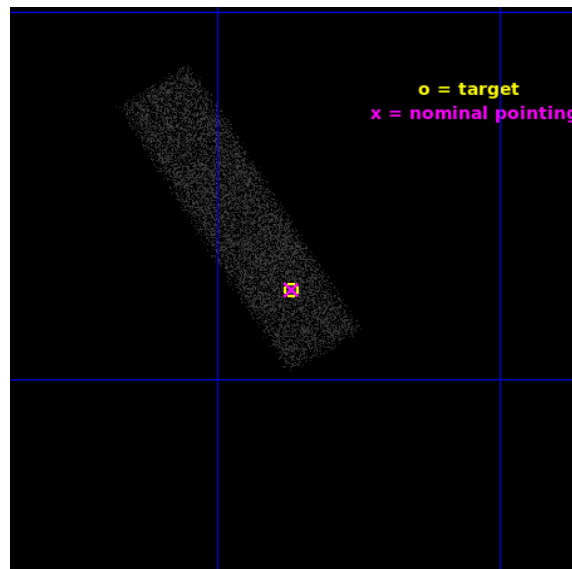
L2 Processing Date : Aug 10 2020

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# 1 Front

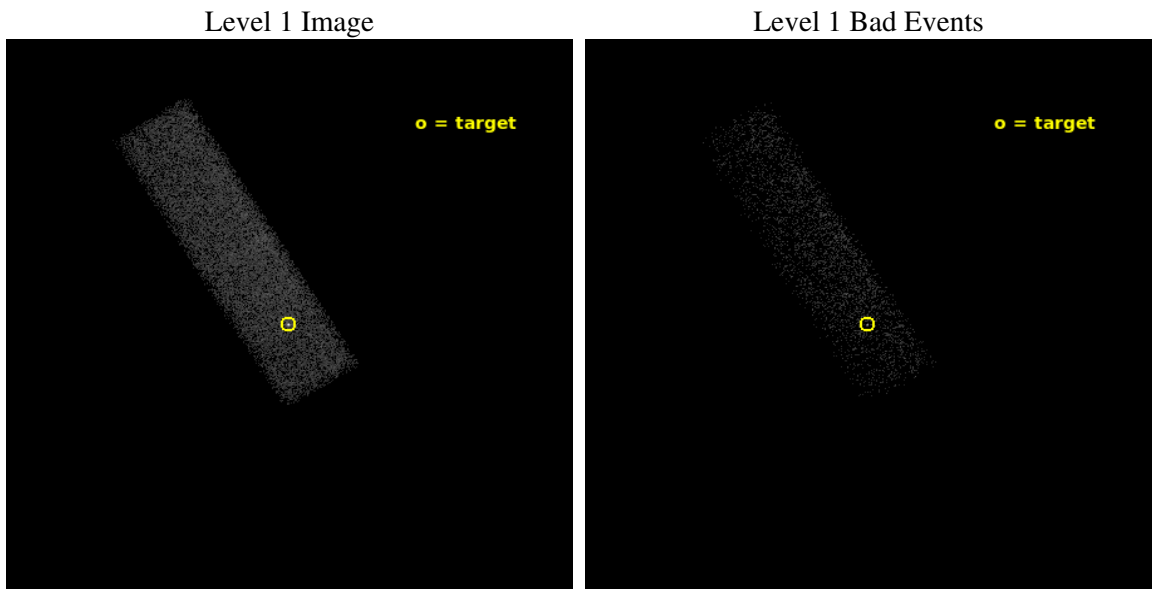
seq_num	704059	Sequence number
obs_id	23362	Observation id
title	C-BASS: A Chandra Legacy Survey of AGN at the Highest Spatial Resolutions	Proposal title
observer	Michael Koss	Principal investigator
object	2MASX J20442214-0957356	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	311.092316	Observer's specified target RA [deg]
dec_targ	-9.959887	Observer's specified target Dec [deg]
ra_nom	311.09186960398	Nominal RA [deg]
dec_nom	-9.9595444194418	Nominal Dec [deg]
roll_nom	238.42241658914	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10061.227496028	Sum of GTIs [s]
livetime	9570.2725159593	Livetime [s]
ontime7	10061.227496028	Sum of GTIs [s]
l2events	15115	Number of level 2 events



## 2 OBI

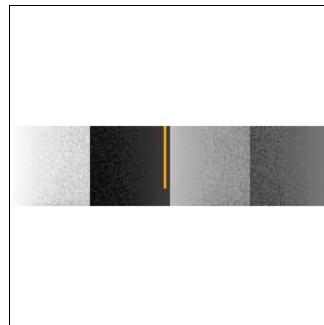
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9	Processing system revision	ontime	10061.227496028	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime7	10061.227496028	Sum of GTIs [s]
date	2020-08-11T02:21:39	Date and time of file creation	l1events	30279	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

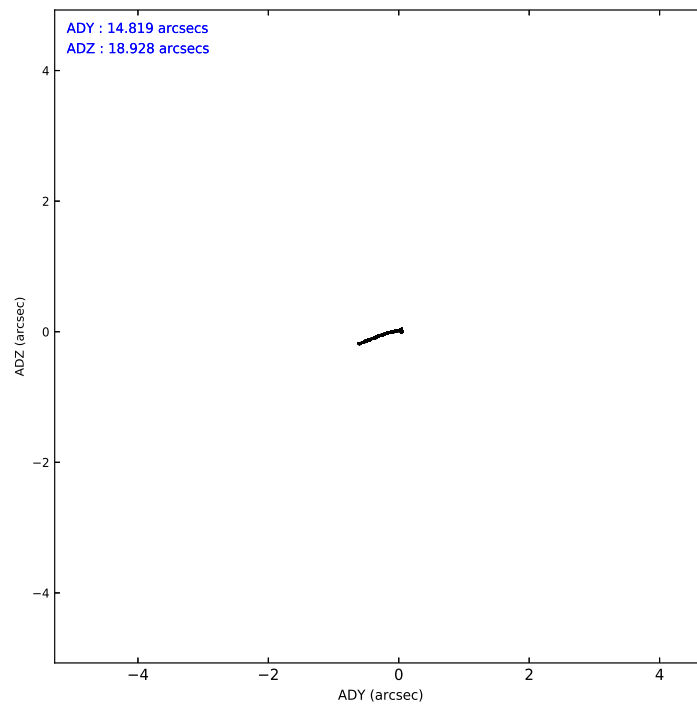
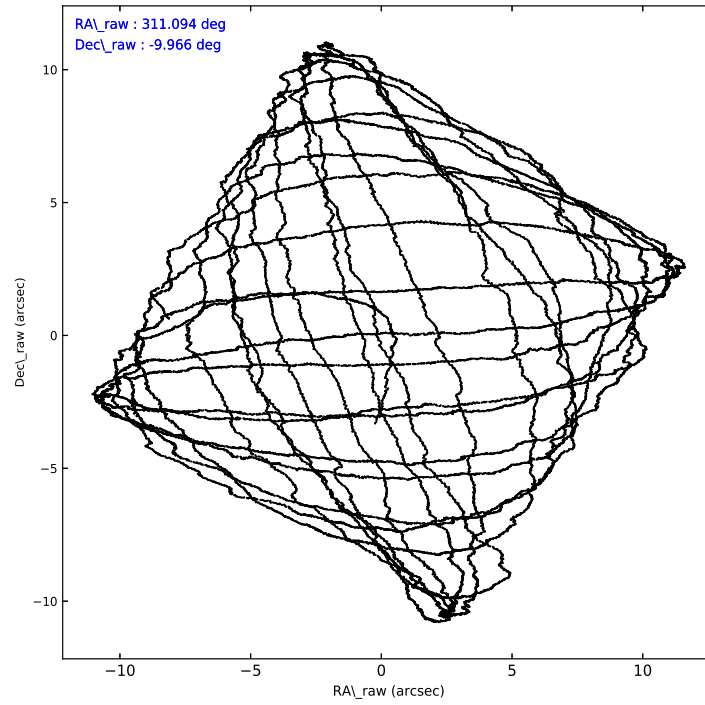
	<b>ccd 7</b>
level 1 events	30279
rejected events	14678
rejected %	<b>48%</b>

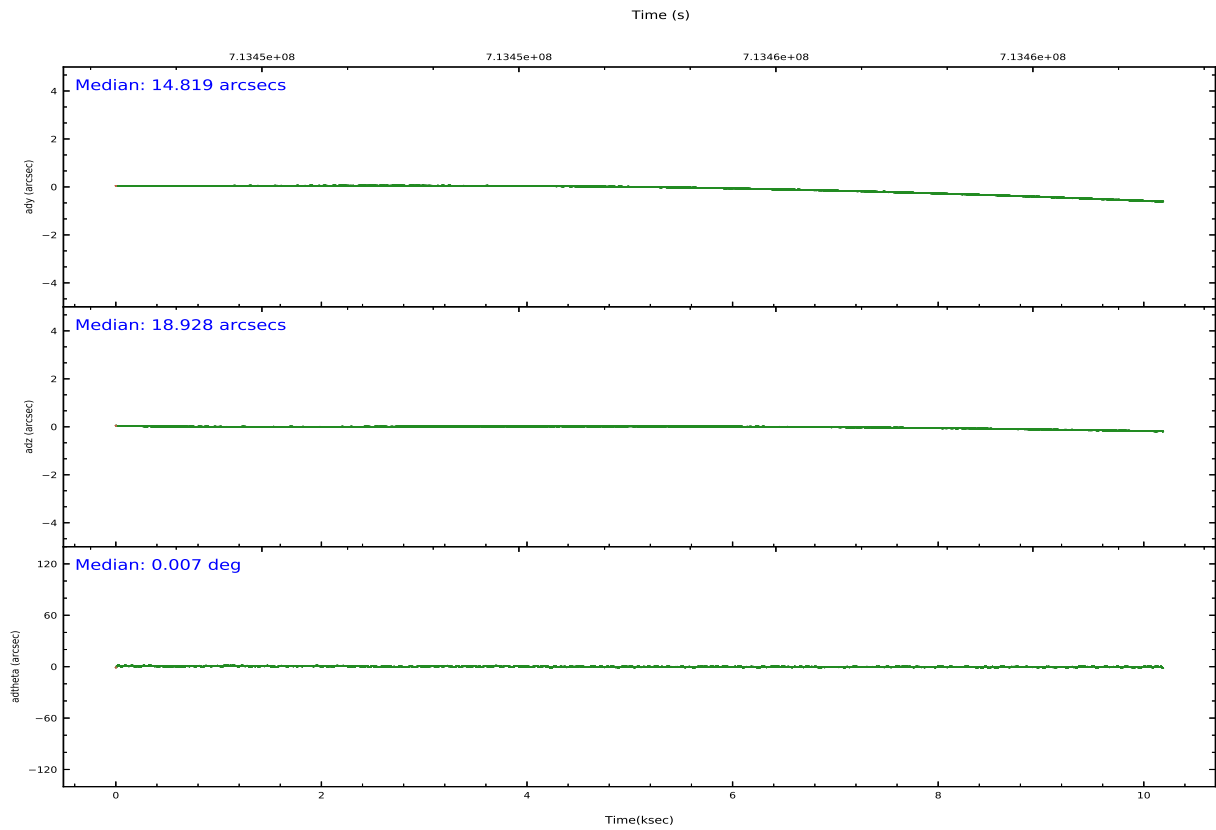
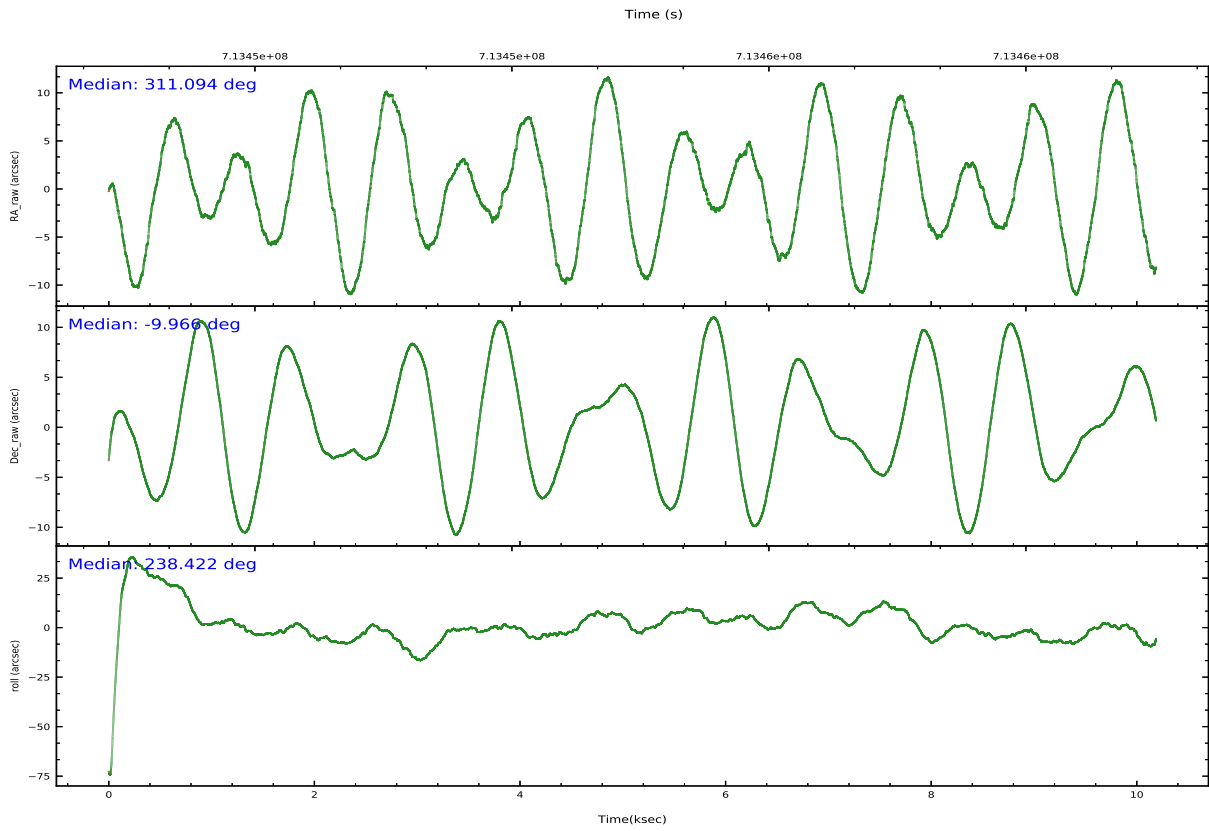
	<b>ccd 7</b>
grade 0 events	1853
	6%
grade 1 events	58
	0%
grade 2 events	3292
	10%
grade 3 events	1667
	5%
grade 4 events	1529
	5%
grade 5 events	2782
	9%
grade 6 events	7262
	23%
grade 7 events	11836
	39%

## 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	311.094588	311.09186960398	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-9.938519	-9.9595444194418	Subarray start row	385	385
[deg] Pointing Roll	238.260588	238.42241658914	Subarray row count	256	256
[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	0.8
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	713448767.184000	713447988.22054			
Observation start date	2020-08-10T12:11:38	2020-08-10T11:59:48			
[s] Observation end time (MET)	713458767.184000	713459428.7587399			
Observation end date	2020-08-10T14:58:18	2020-08-10T15:10:28			
Read mode	TIMED	TIMED			

## 2.3 Aspect





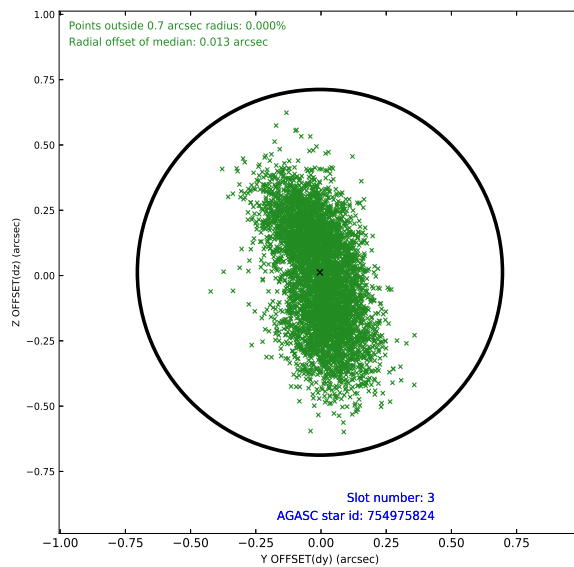
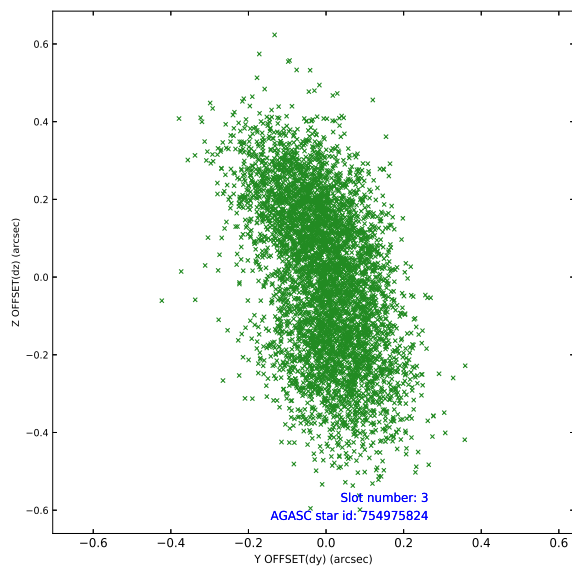
### Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2485	1.000	0.191	-0.111	0.009	0.015	0.000000	0.000000	-767.83	-1740
1	FID		ACIS-S-4	7.23	2486	1.000	0.148	-0.062	0.007	0.014	0.000000	0.000000	2145.54	167
2	FID		ACIS-S-5	7.21	2486	1.000	-0.371	0.182	0.008	0.012	0.000000	0.000000	-1820.20	162
3	GUIDE	used	754975824	9.19	4964	1.000	-0.004	0.012	0.242	0.394	311.474980	-9.986287	-562.00	1237
4	GUIDE	used	754976080	9.35	4963	1.000	0.151	0.179	0.189	0.340	311.089163	-9.610799	-992.45	-636
5	GUIDE	used	754978536	8.87	4964	1.000	-0.155	-0.021	0.181	0.304	311.664229	-9.547449	-2257.32	981
6	GUIDE	used	754980840	9.69	4541	0.994	-0.026	-0.065	0.309	0.492	310.977239	-10.538546	2055.58	782
7	GUIDE	used	754982760	8.72	4966	1.000	0.029	-0.090	0.170	0.297	311.420520	-10.122139	-43.28	1330

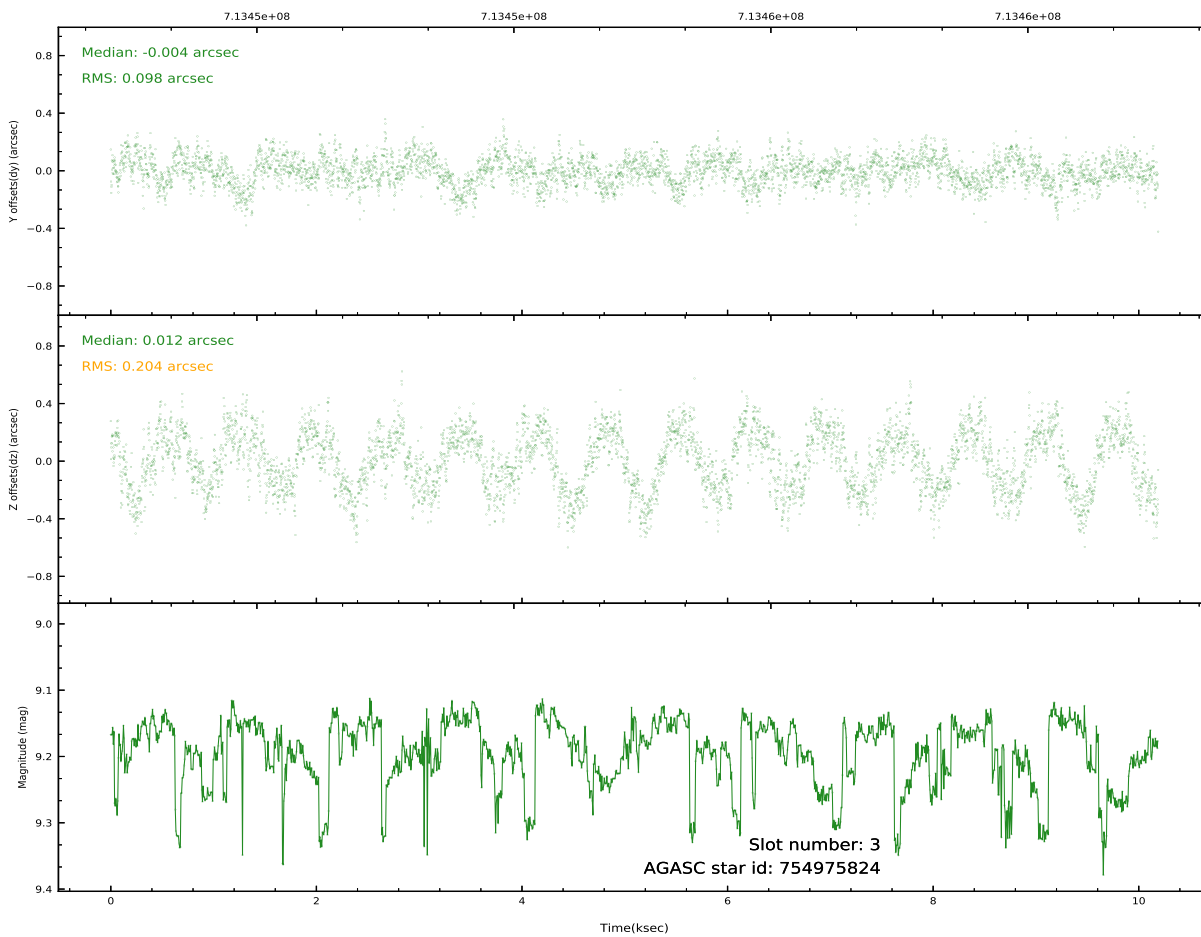
∞

## 2.4 Star Slots

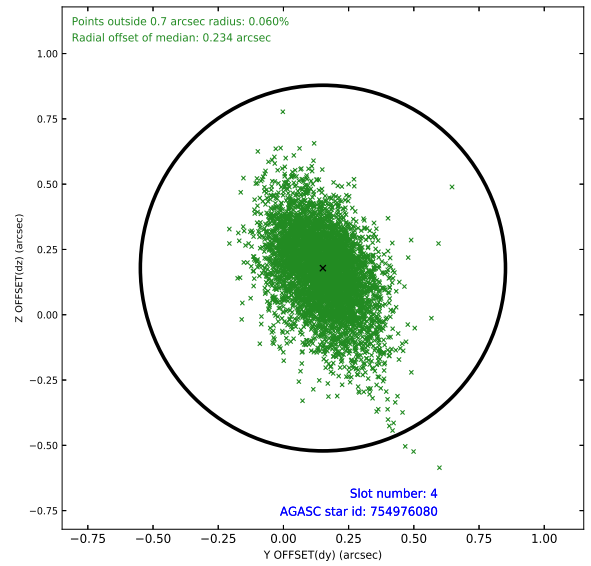
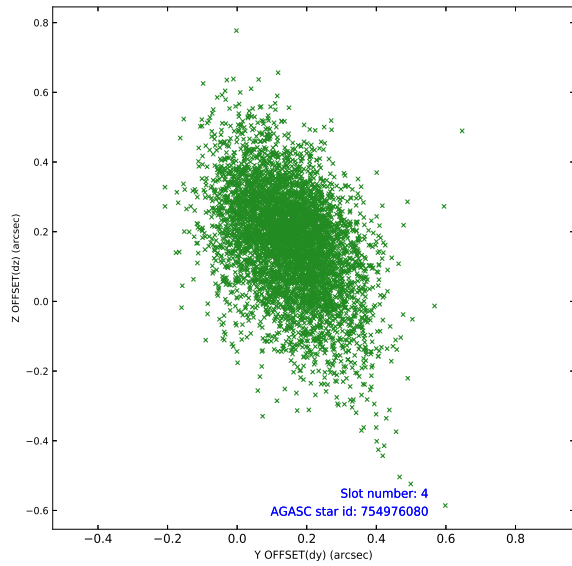
### 2.4.1 Slot 3



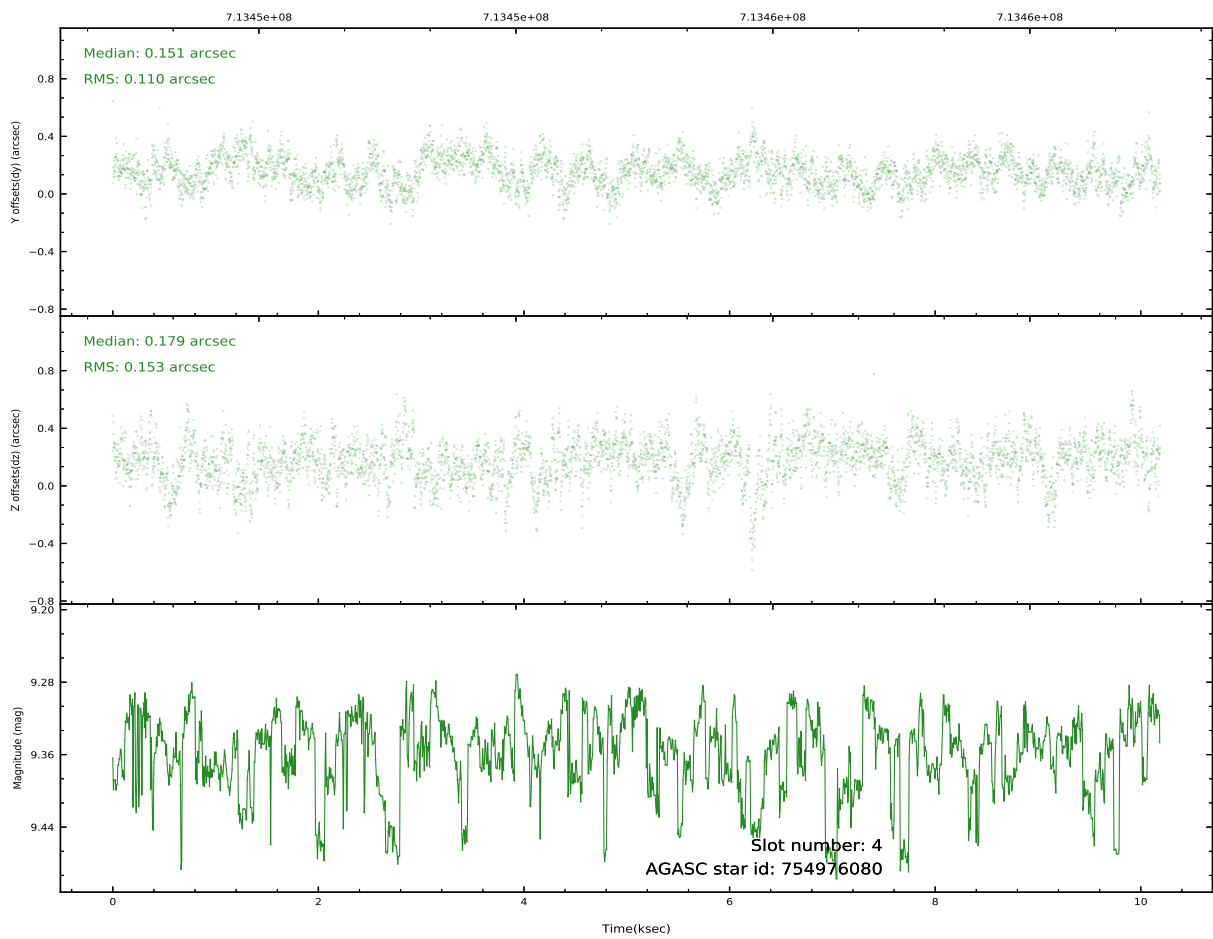
Time (s)



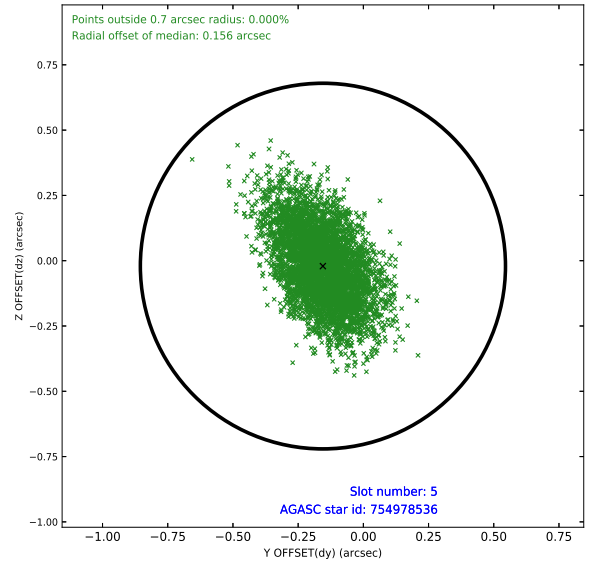
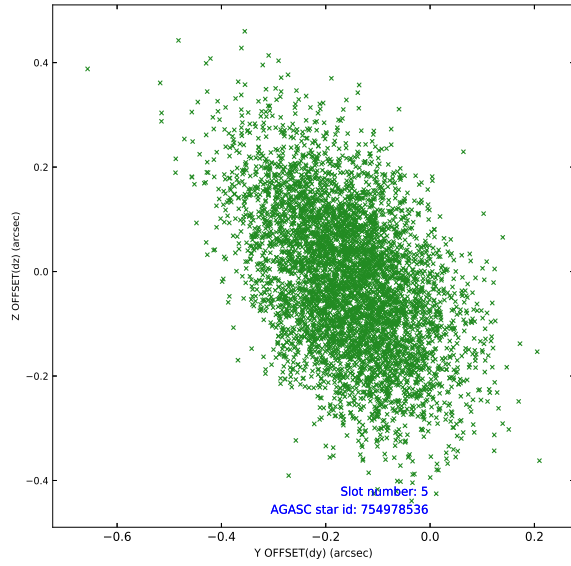
## 2.4.2 Slot 4



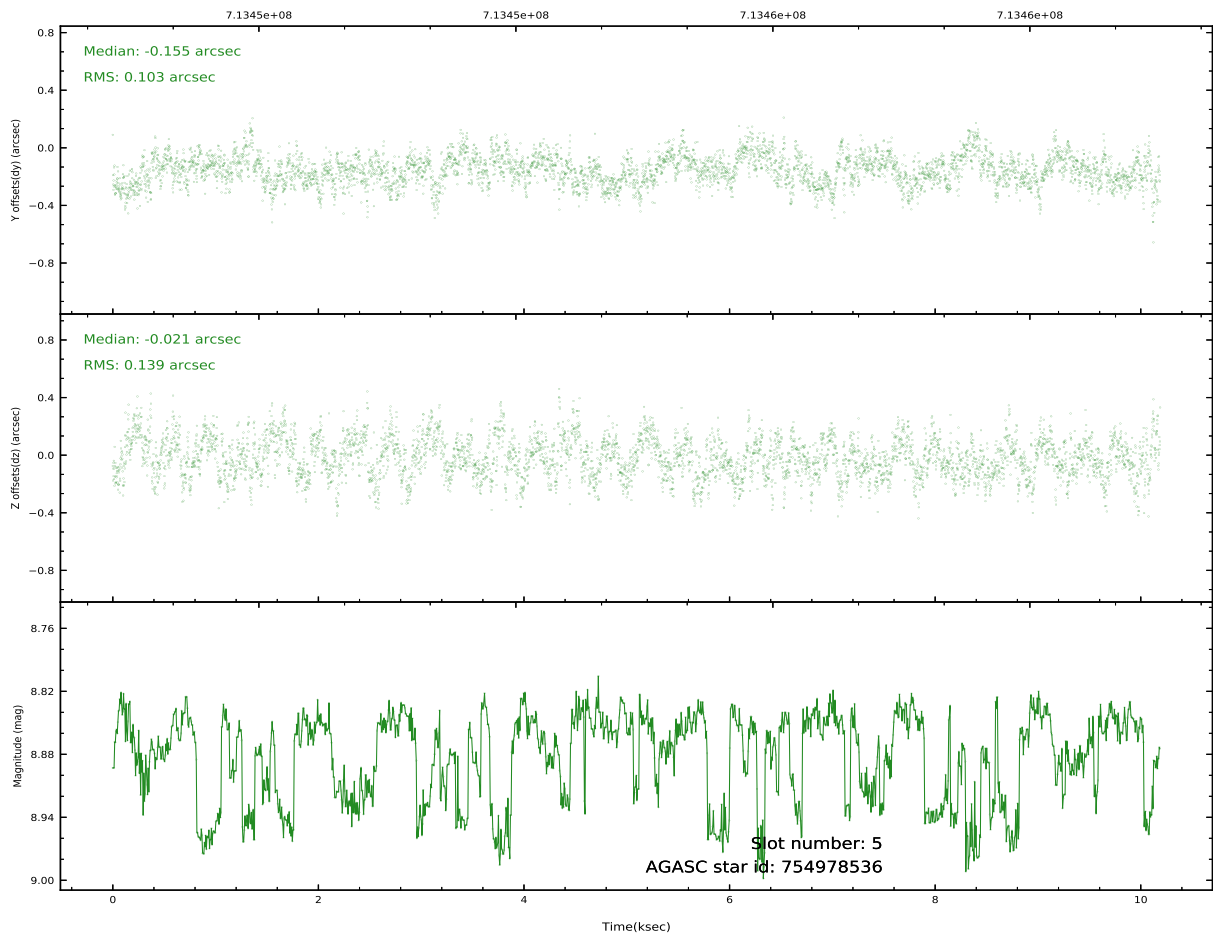
Time (s)



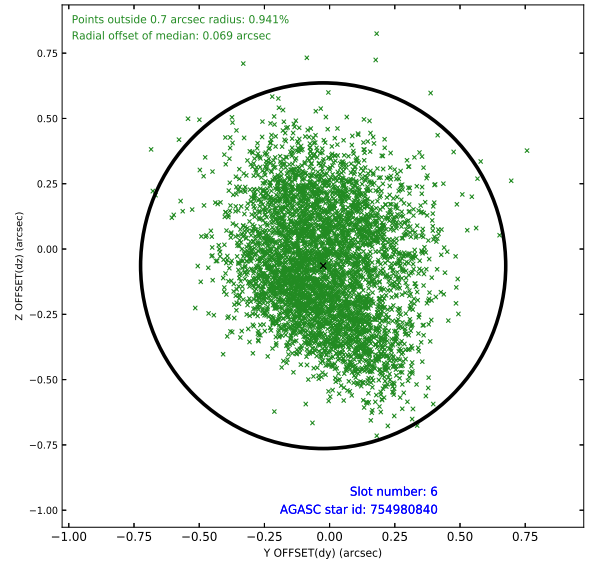
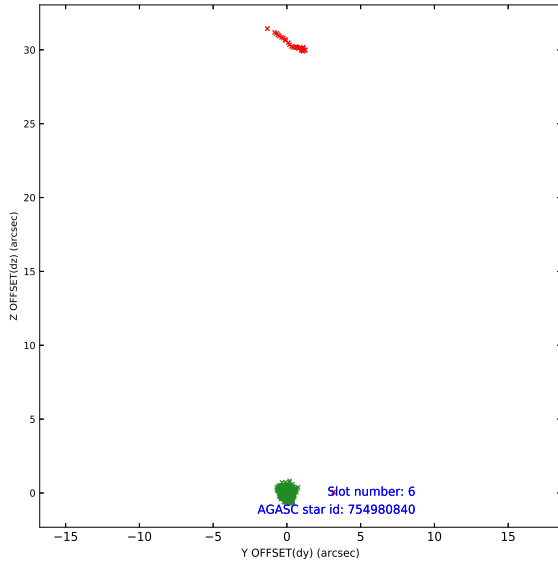
### 2.4.3 Slot 5



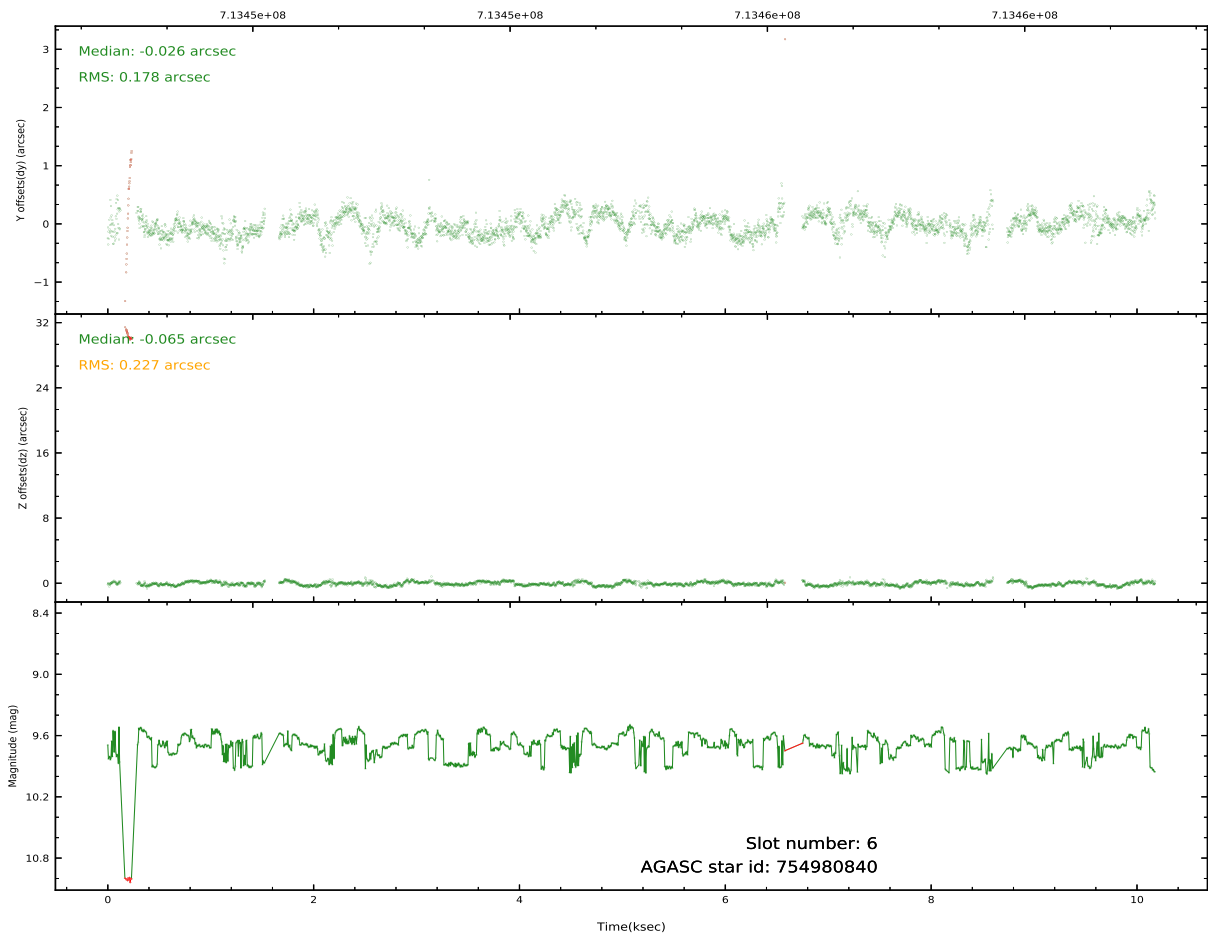
Time (s)



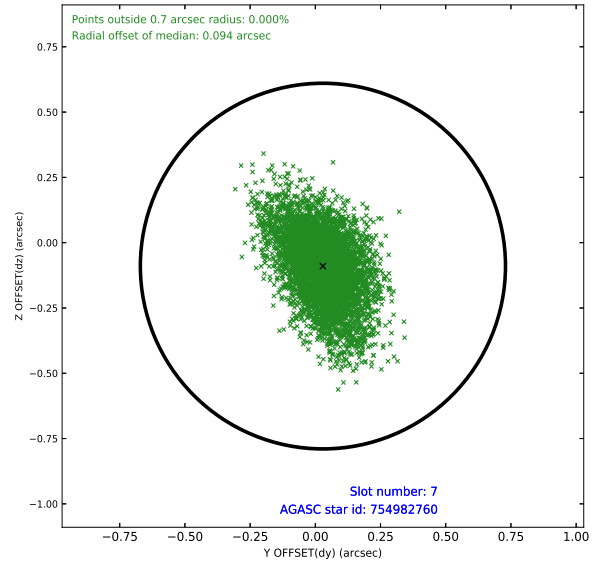
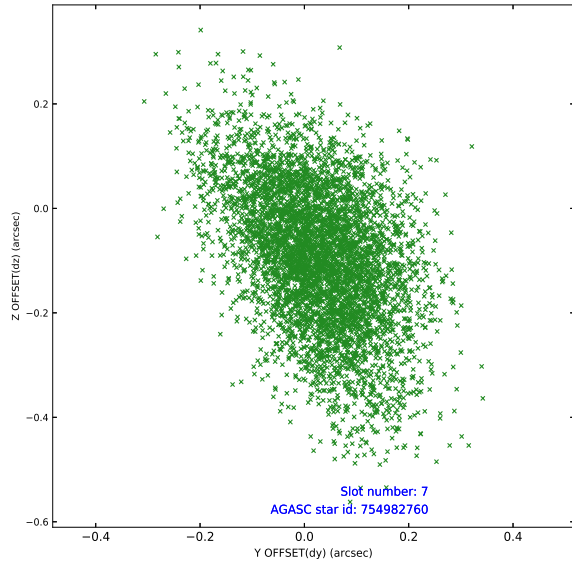
## 2.4.4 Slot 6



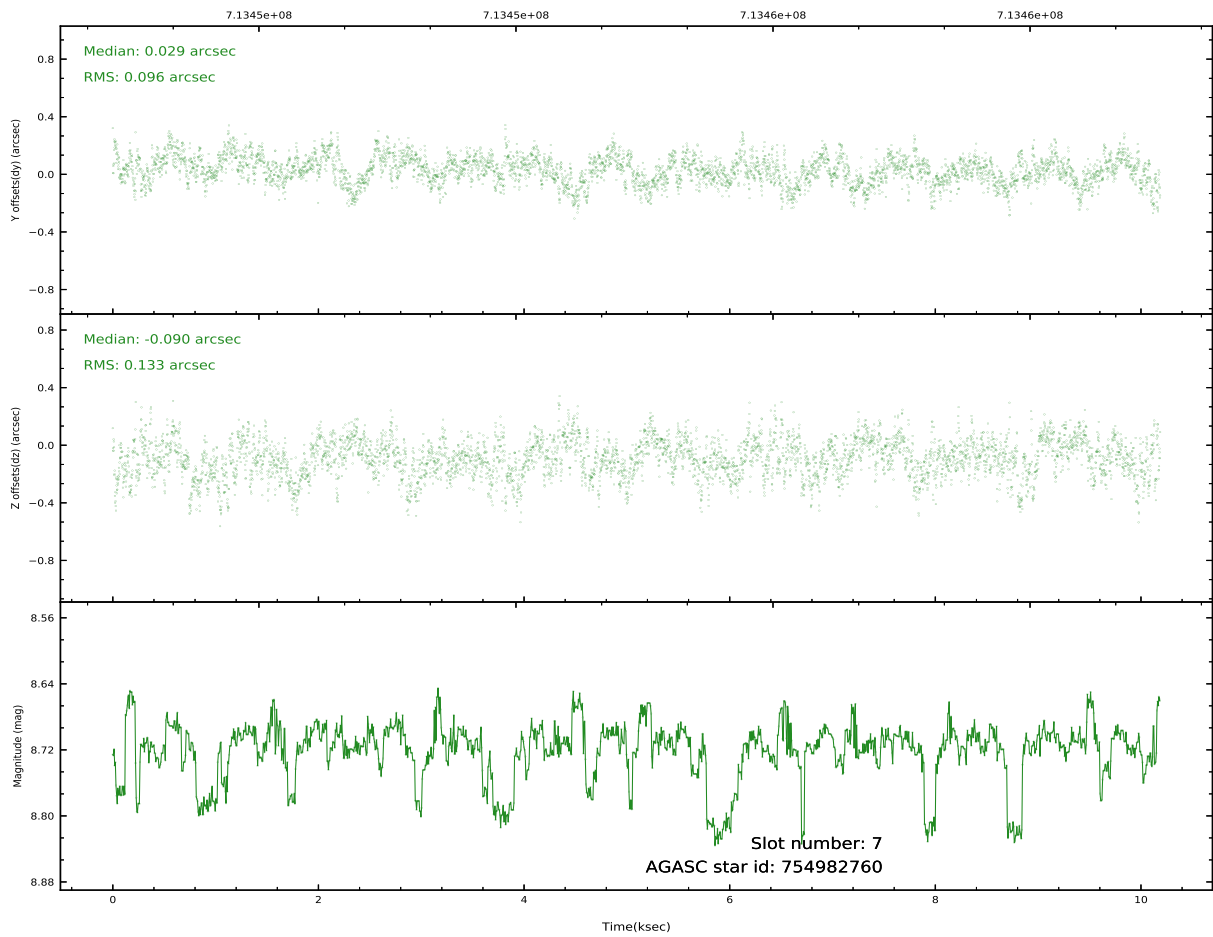
Time (s)



## 2.4.5 Slot 7

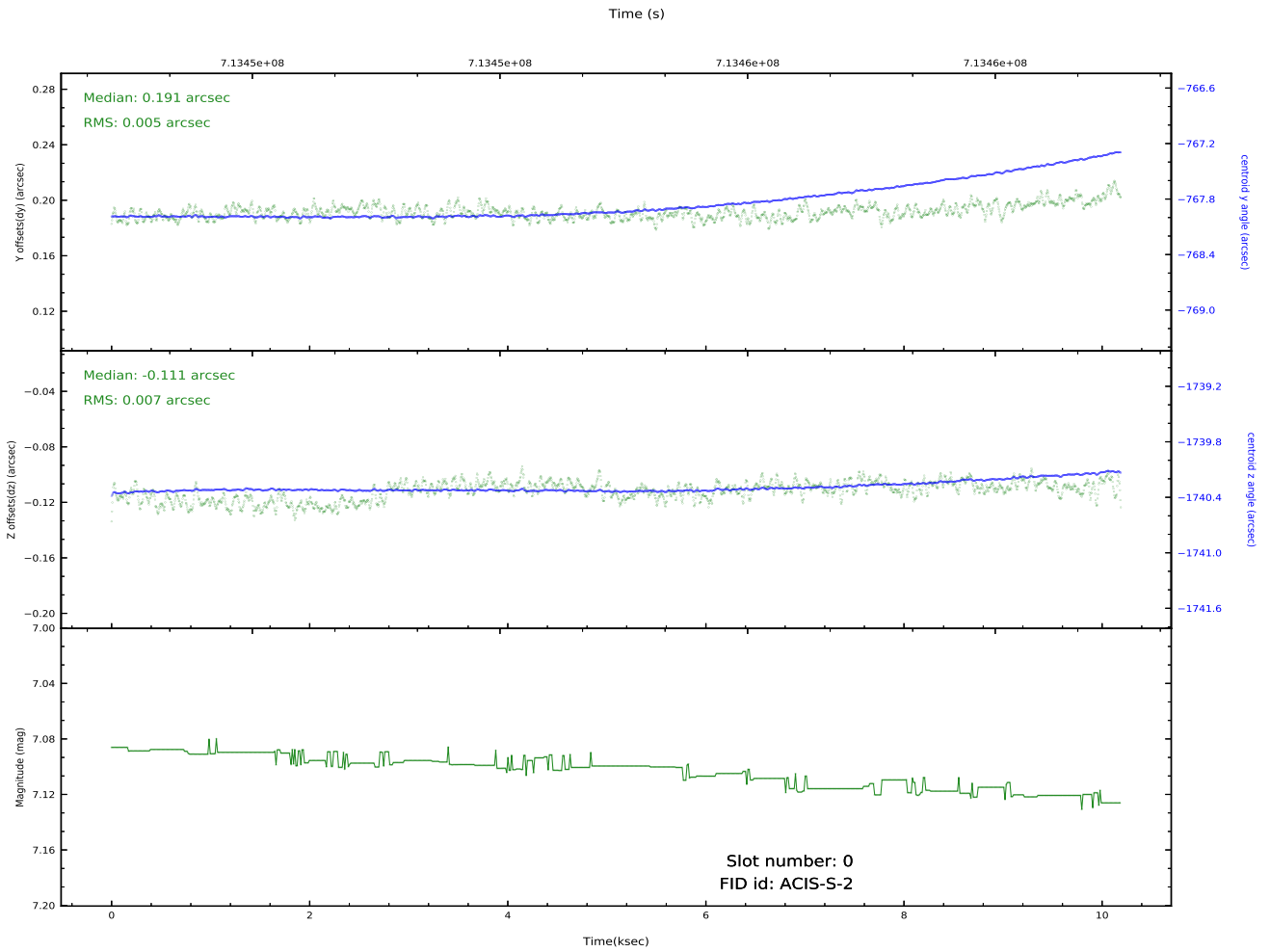
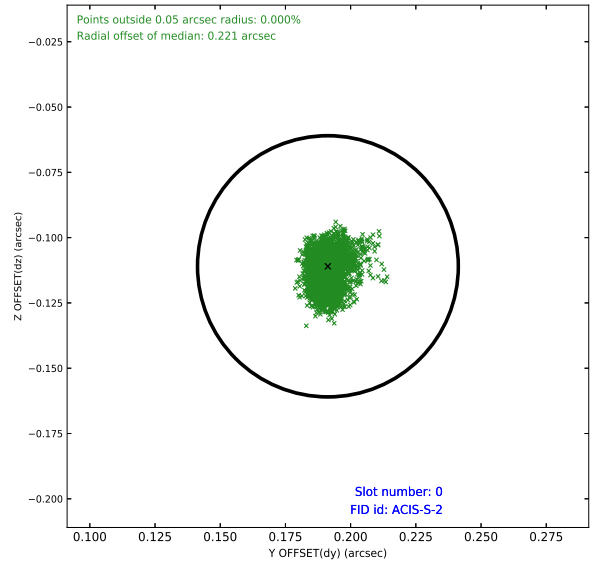
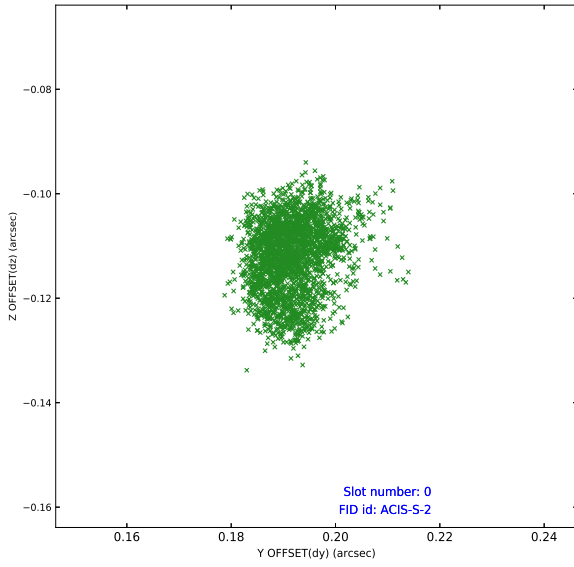


Time (s)

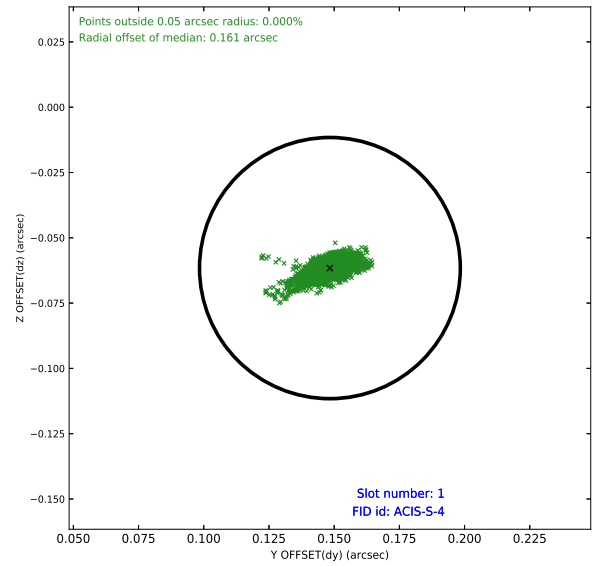
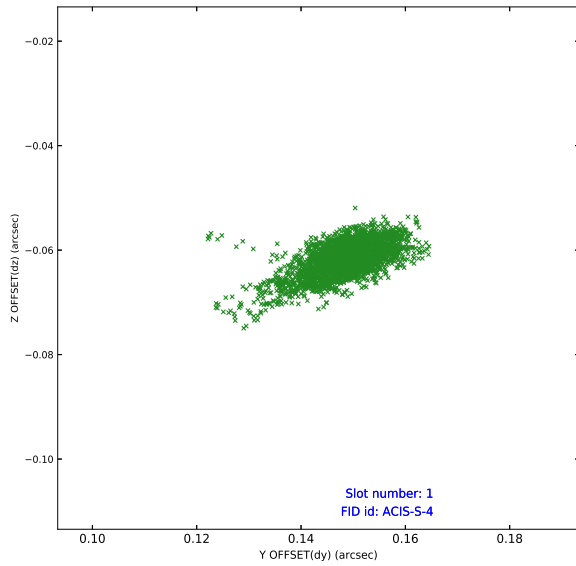


## 2.5 FID Slots

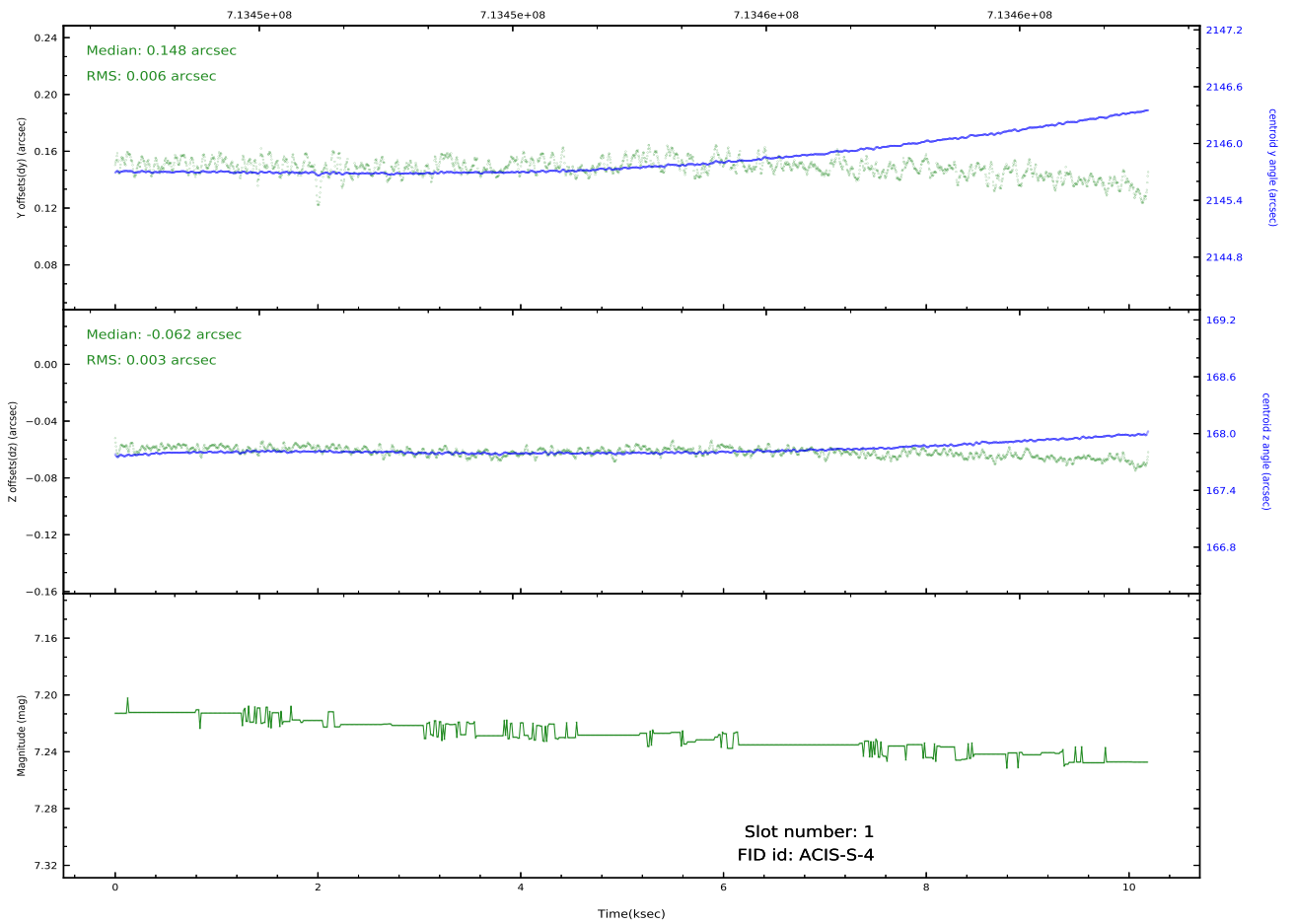
### 2.5.1 Slot 0



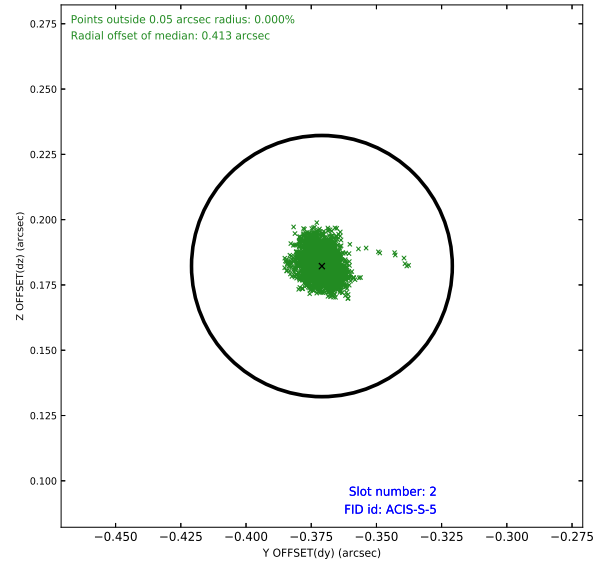
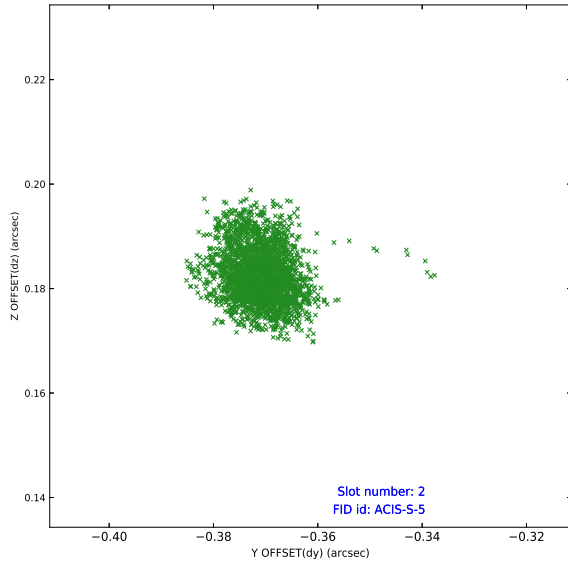
## 2.5.2 Slot 1



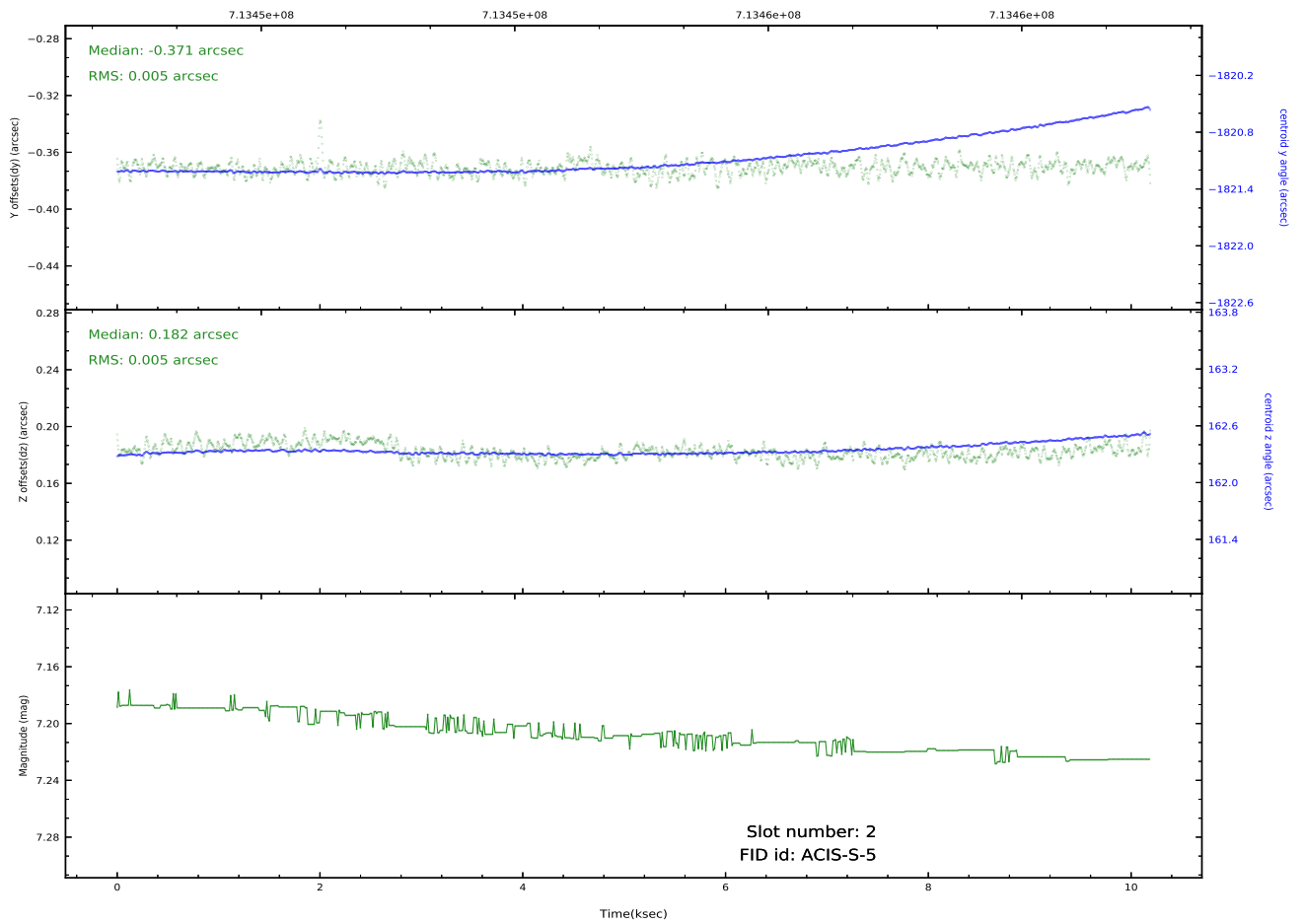
Time (s)



### 2.5.3 Slot 2



Time (s)



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.061227496028

## A.2 Comments