

# V&V Reference Report

## L2 ASCDS Version : 10.9.2

Observation 20404 - L2 Version 2  
Chandra X-Ray Center

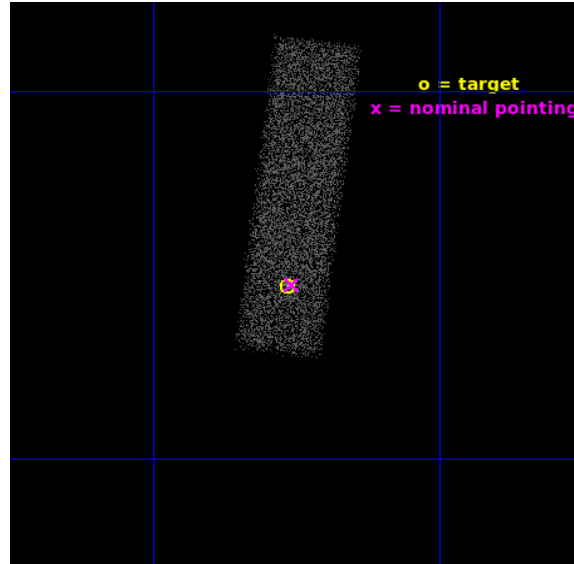
L2 Processing Date : Oct 24 2020

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# 1 Front

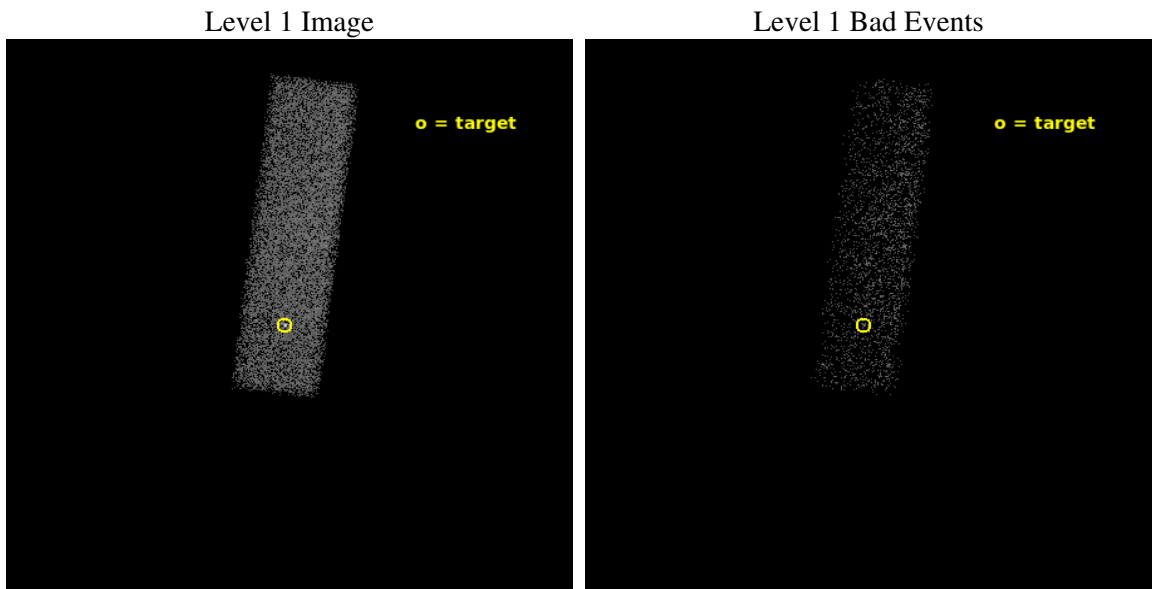
seq_num	703509	Sequence number
obs_id	20404	Observation id
title	A SEARCH FOR BEACONS IN THE EARLY UNIVERSE: A SURVEY OF HIGH REDSHIFT RADIO JETS	Proposal title
observer	Daniel Schwartz	Principal investigator
object	J0909+0354	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	137.31625	Observer's specified target RA [deg]
dec_targ	3.911861	Observer's specified target Dec [deg]
ra_nom	137.31446987867	Nominal RA [deg]
dec_nom	3.9123895817611	Nominal Dec [deg]
roll_nom	277.14864889761	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10060.652880073	Sum of GTIs [s]
liveltime	9569.7259393823	Livetime [s]
ontime7	10060.652880073	Sum of GTIs [s]
l2events	12377	Number of level 2 events



## 2 OBI

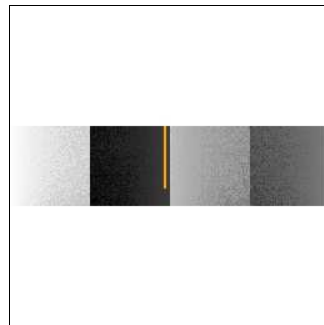
### 2.1 OBI

#### 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	10.9.2	Processing system revision	ontime	10060.652880073	Sum of GTIs [s]
caldbver	4.9.3	&#160	ontime7	10060.652880073	Sum of GTIs [s]
date	2020-10-25T00:23:59	Date and time of file creation	l1events	25183	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

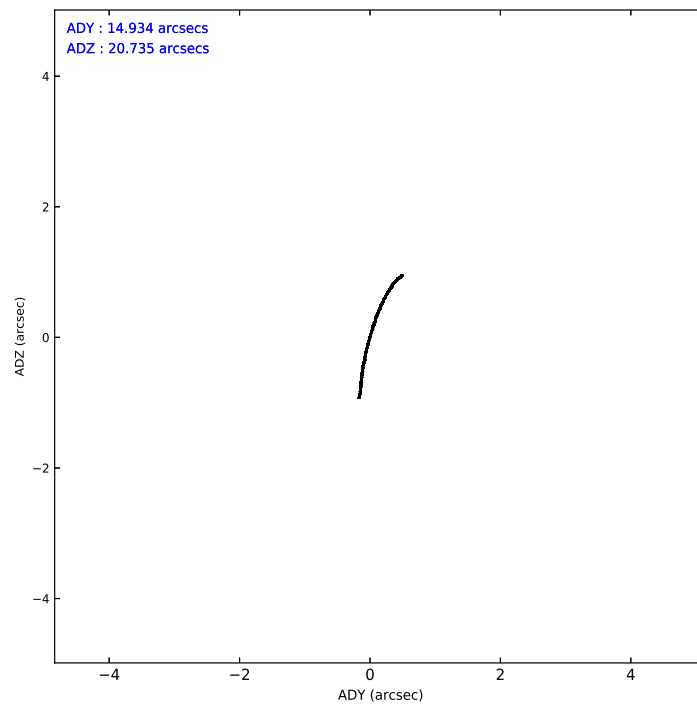
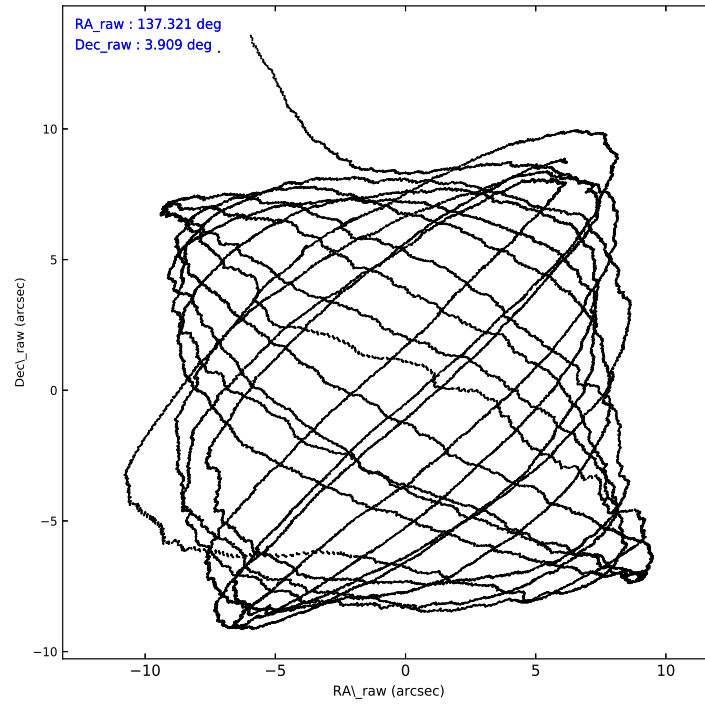
	ccd 7
level 1 events	25183
rejected events	12430
rejected %	49%

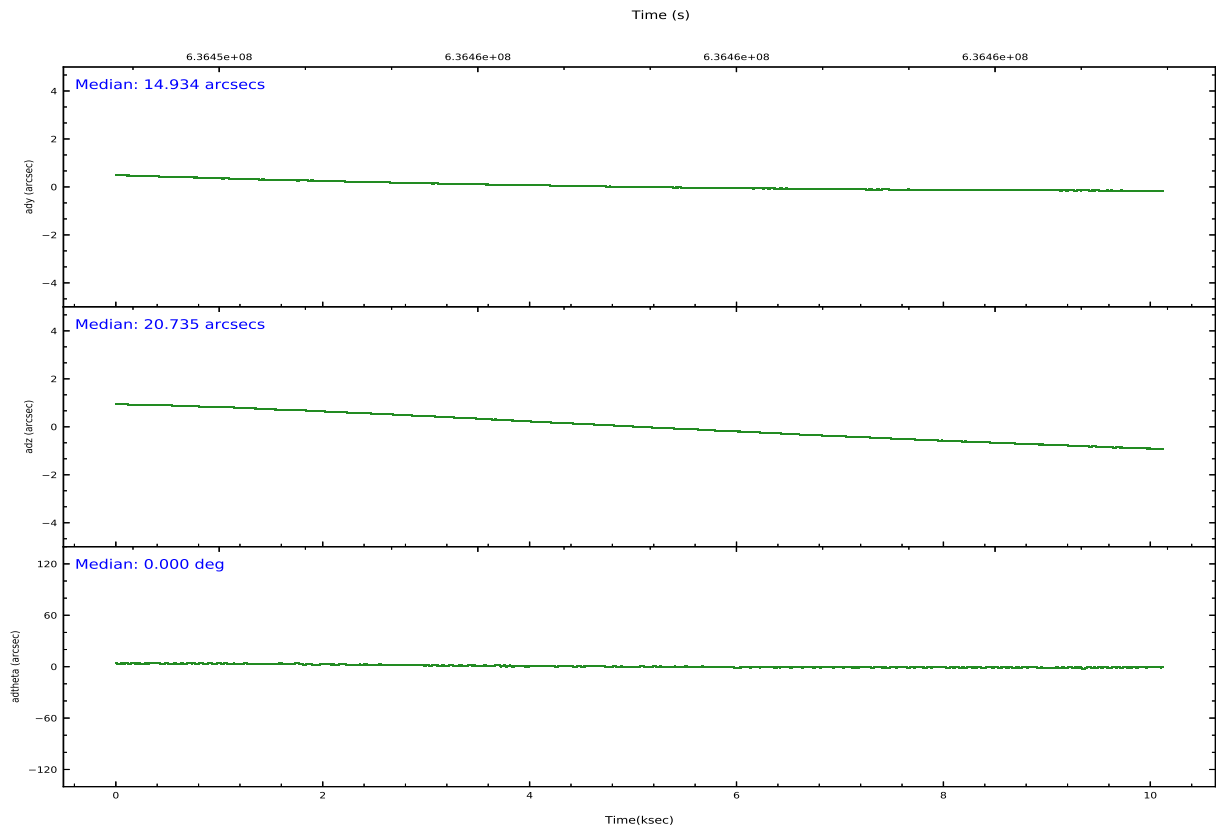
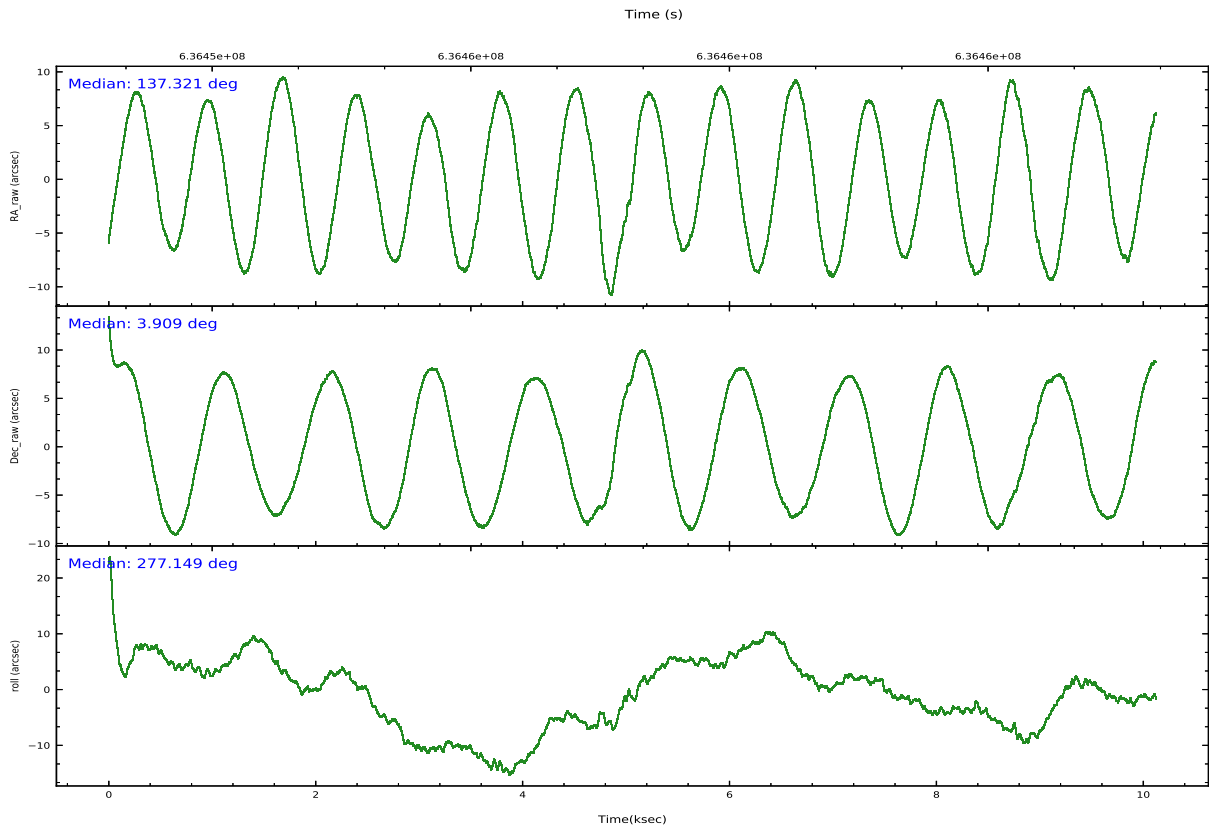
	ccd 7
grade 0 events	1302
	5%
grade 1 events	43
	0%
grade 2 events	2687
	10%
grade 3 events	1446
	5%
grade 4 events	1370
	5%
grade 5 events	2628
	10%
grade 6 events	5948
	23%
grade 7 events	9759
	38%

## 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	137.304064	137.31446987867	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	3.930399	3.9123895817611	Subarray start row	385	385
[deg] Pointing Roll	277.000831	277.14864889761	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)	636451624.184000	636450333.789			
Observation start date	2018-03-03T08:05:55	2018-03-03T07:45:33			
[s] Observation end time (MET)	636461624.184000	636462780.8772399			
Observation end date	2018-03-03T10:52:35	2018-03-03T11:13:00			
Read mode	TIMED	TIMED			

## 2.3 Aspect





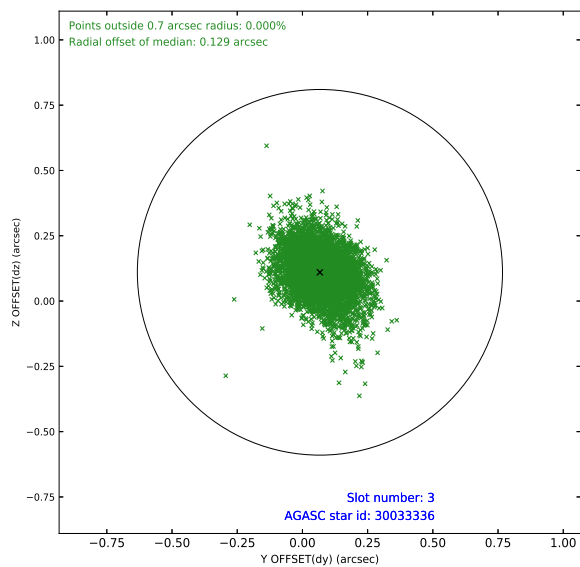
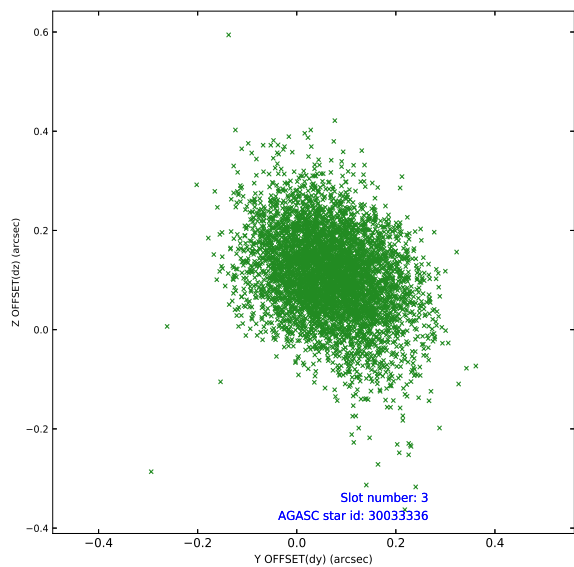
### Slot Statistics

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-1	7.11	2470	1.000	0.215	-0.132	0.012	0.023	0.000000	0.000000	928.11	-1738
1	FID		ACIS-S-4	7.13	2470	1.000	0.082	-0.008	0.017	0.031	0.000000	0.000000	2145.85	165
2	FID		ACIS-S-5	7.11	2469	1.000	-0.321	0.152	0.014	0.023	0.000000	0.000000	-1820.44	160
3	GUIDE	used	30033336	8.37	4937	1.000	0.067	0.110	0.126	0.211	137.224687	3.959187	-137.02	-269
4	GUIDE	used	30151936	9.09	4929	1.000	0.042	0.010	0.151	0.259	137.901540	3.778656	803.34	2063
5	GUIDE	used	30151984	9.32	4936	1.000	-0.072	0.073	0.250	0.352	137.883374	3.692105	1104.88	1962
6	GUIDE	used	30152104	9.04	4934	1.000	-0.044	-0.145	0.131	0.227	137.924617	3.566742	1570.92	2054
7	GUIDE	used	30020504	8.06	4939	1.000	0.002	-0.053	0.143	0.231	136.634200	3.859872	-40.58	-2418

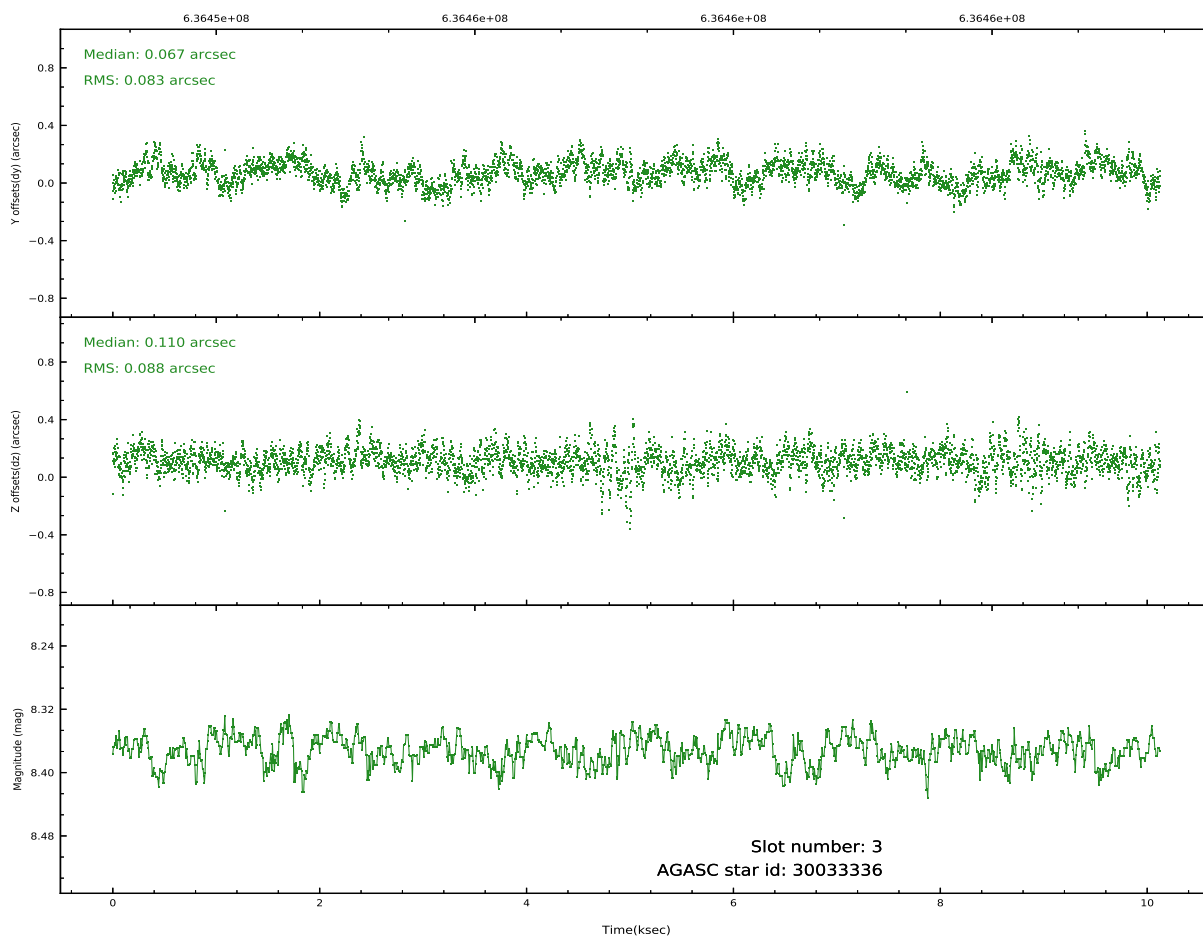
∞

## 2.4 Star Slots

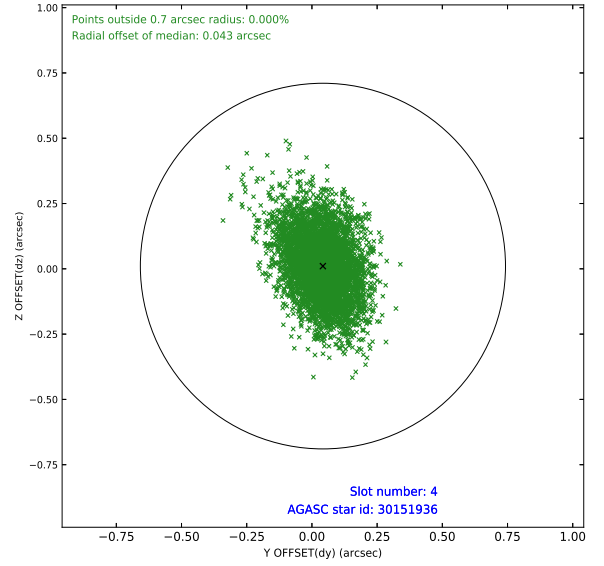
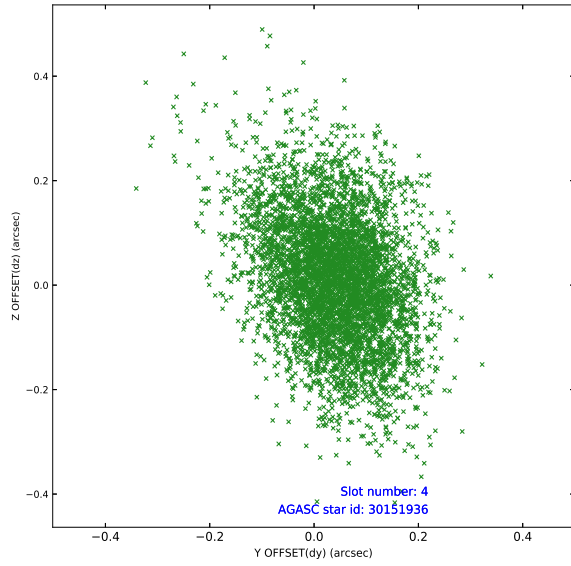
### 2.4.1 Slot 3



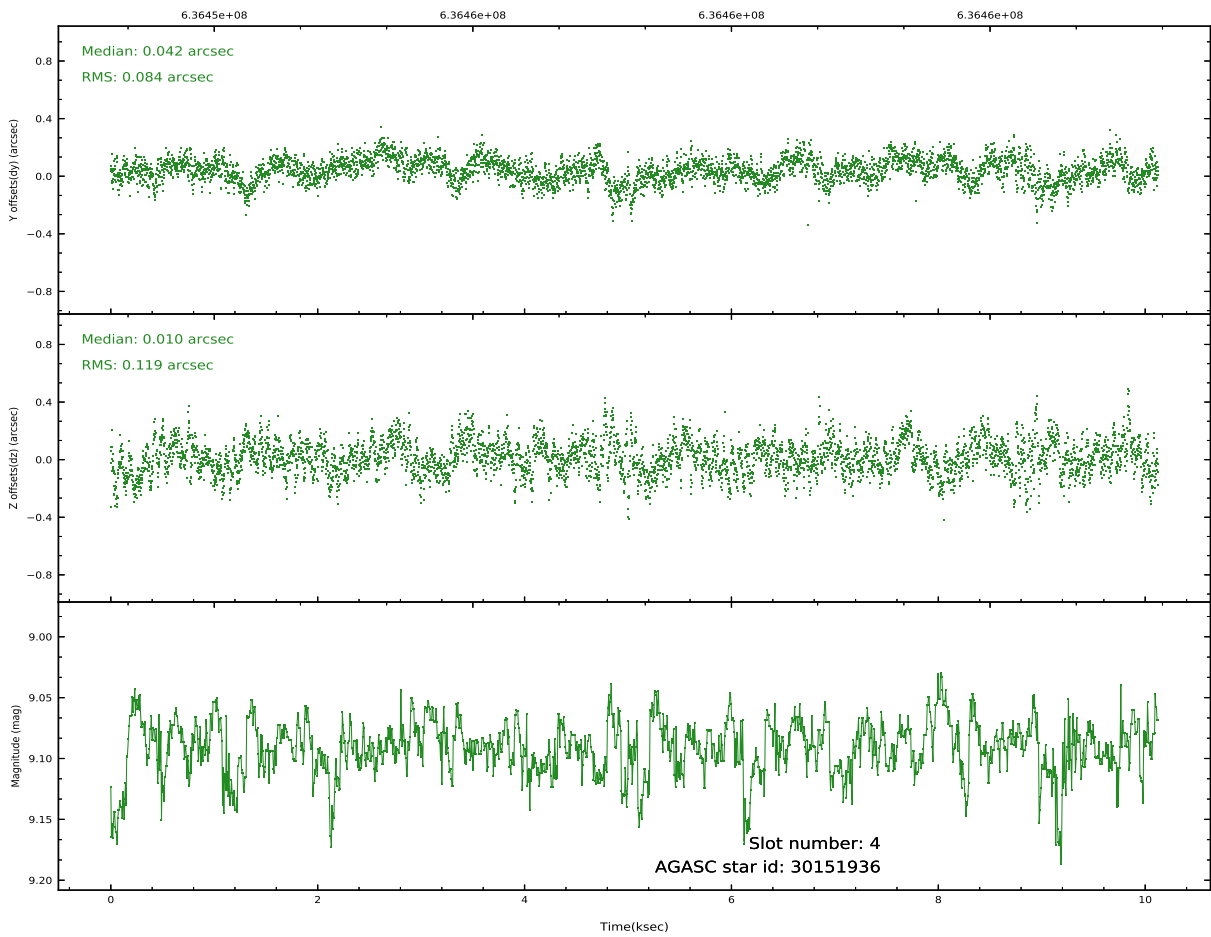
Time (s)



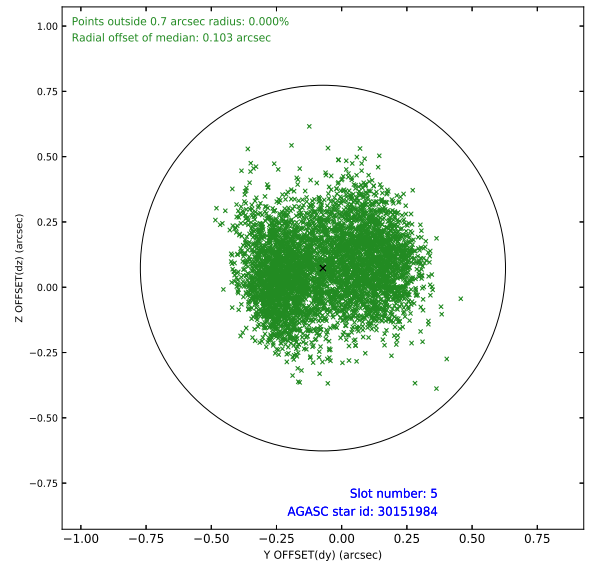
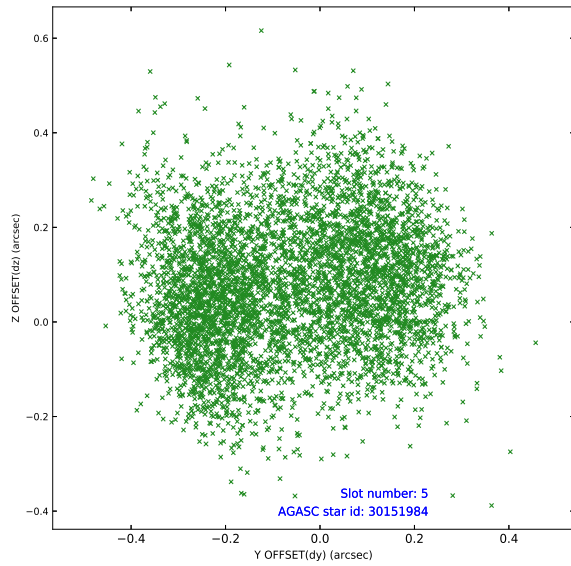
## 2.4.2 Slot 4



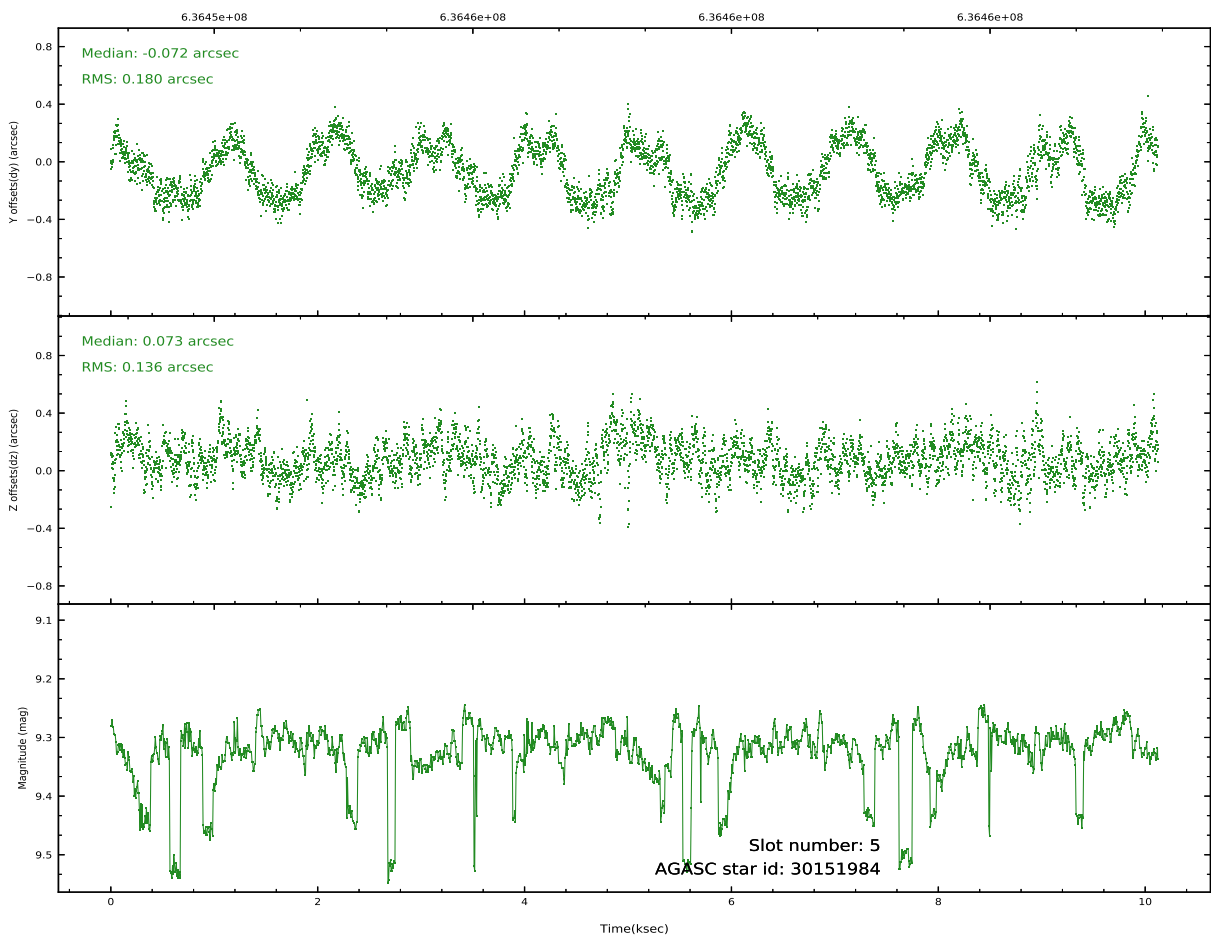
Time (s)



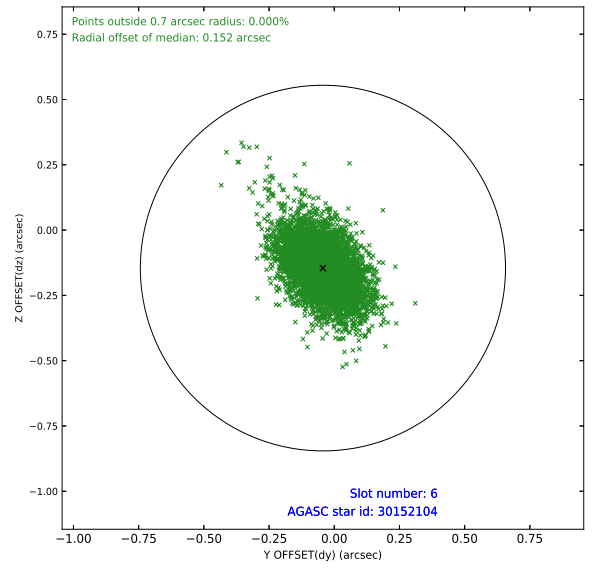
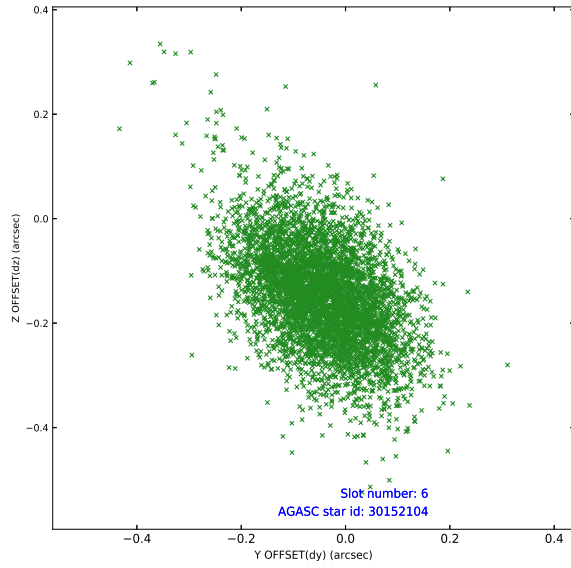
### 2.4.3 Slot 5



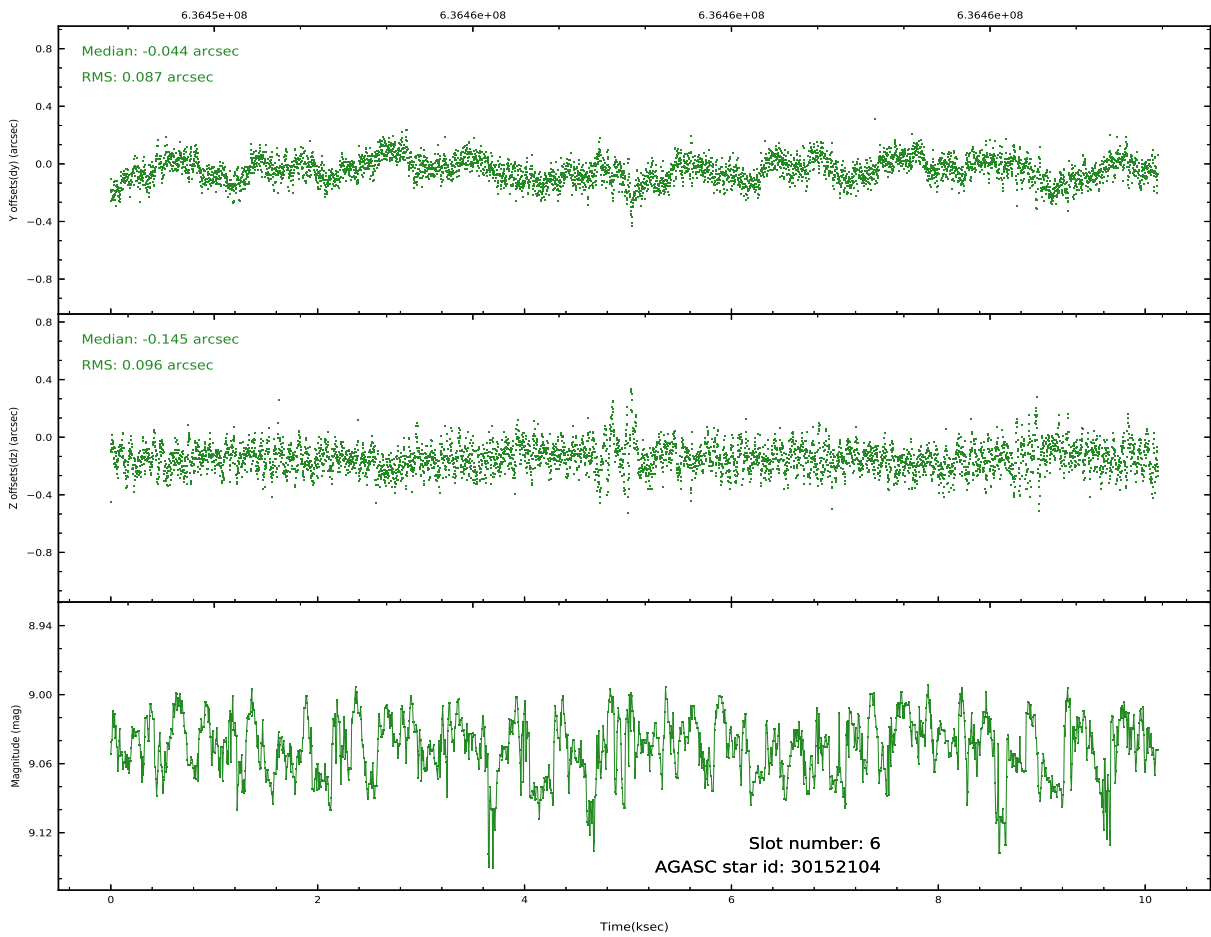
Time (s)



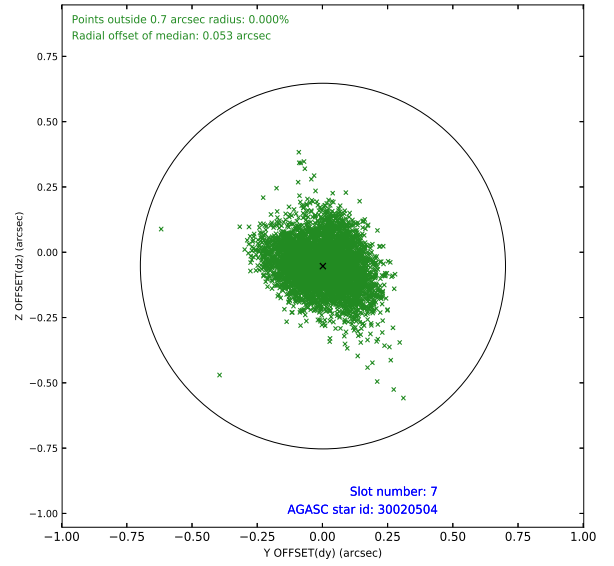
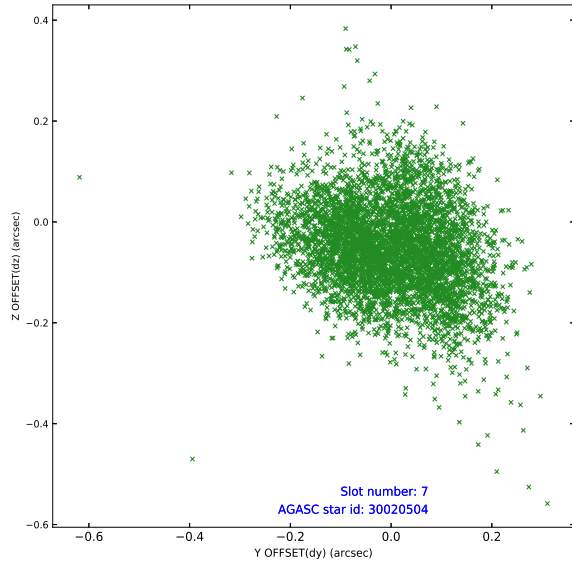
## 2.4.4 Slot 6



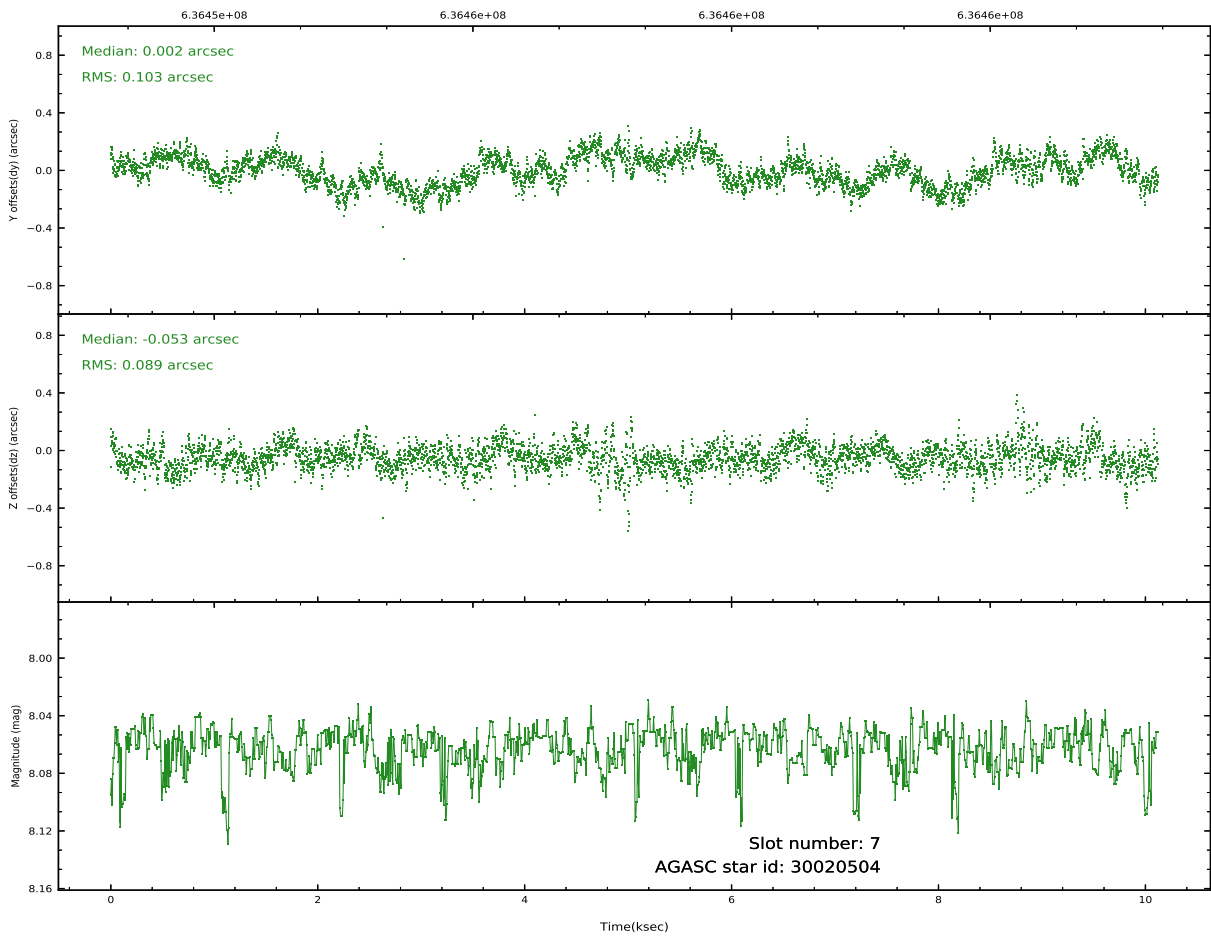
Time (s)



## 2.4.5 Slot 7

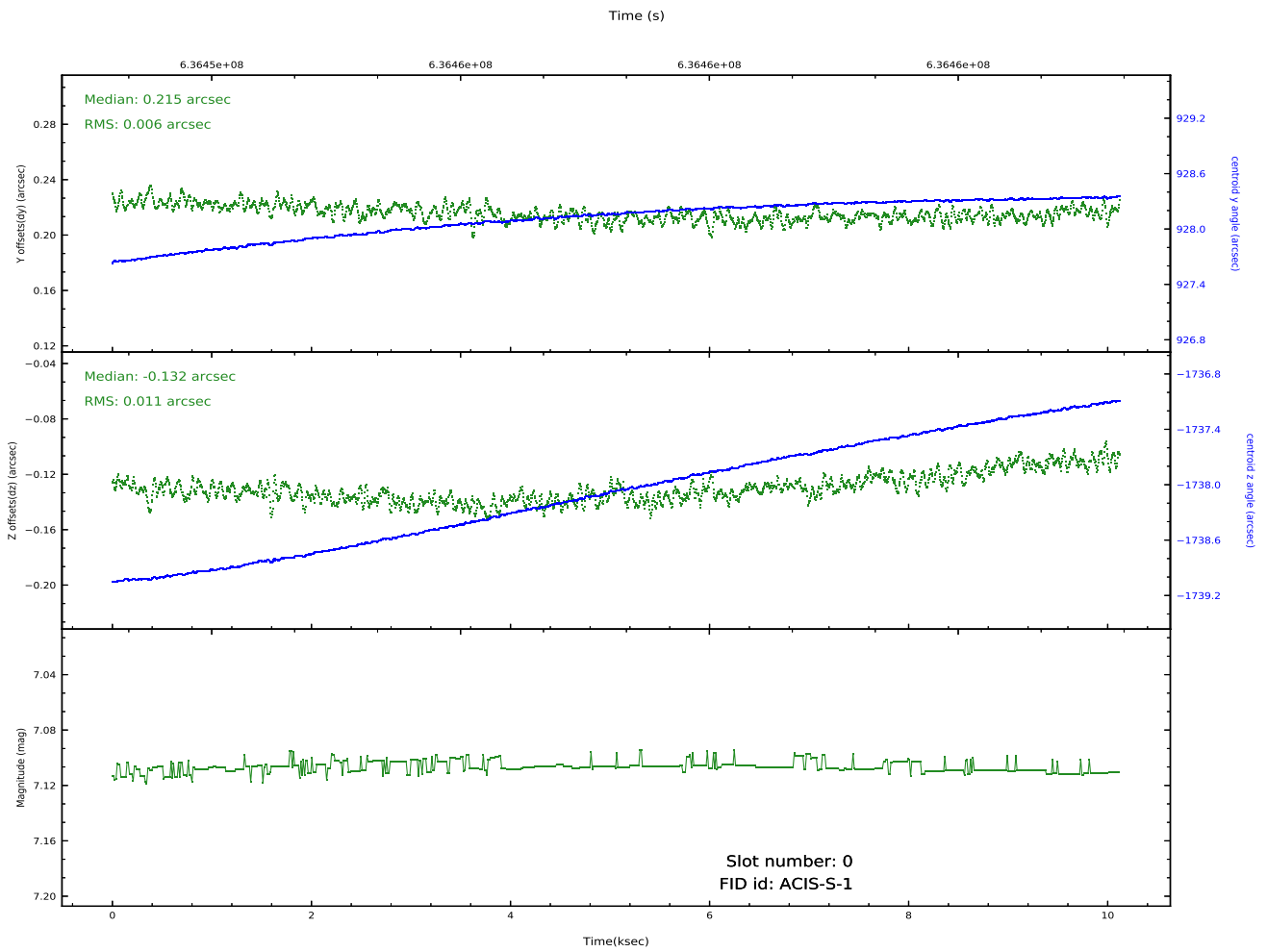
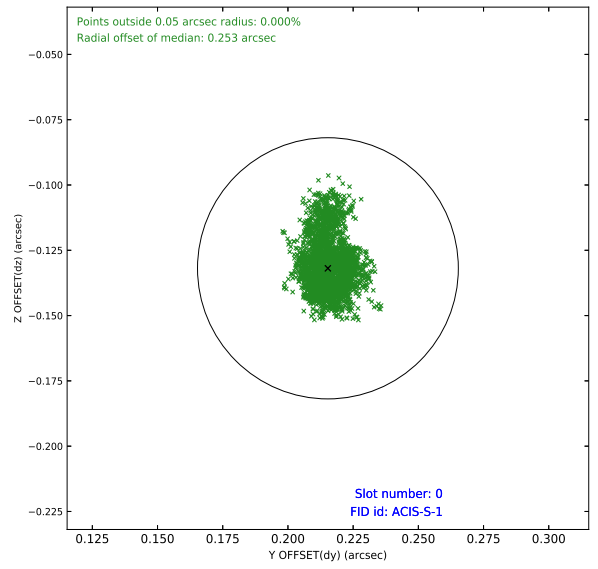
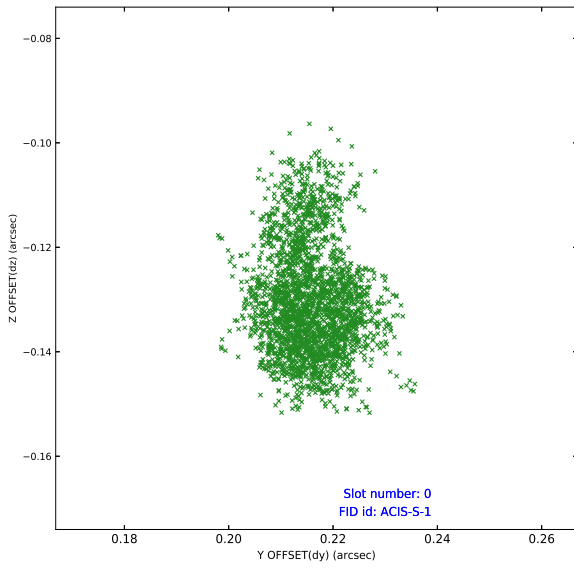


Time (s)

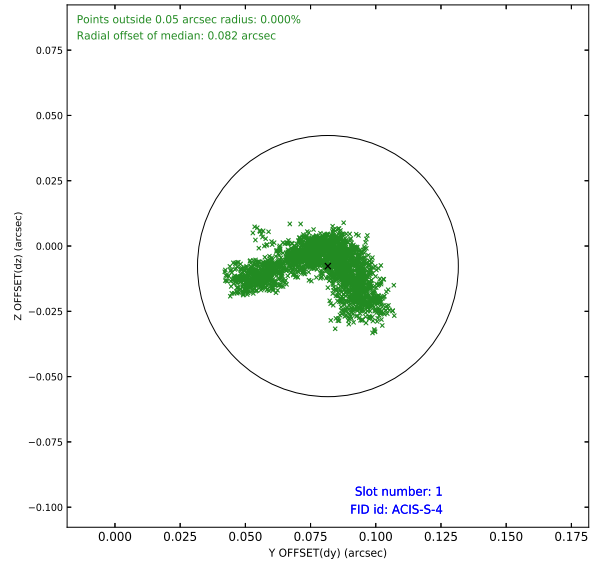
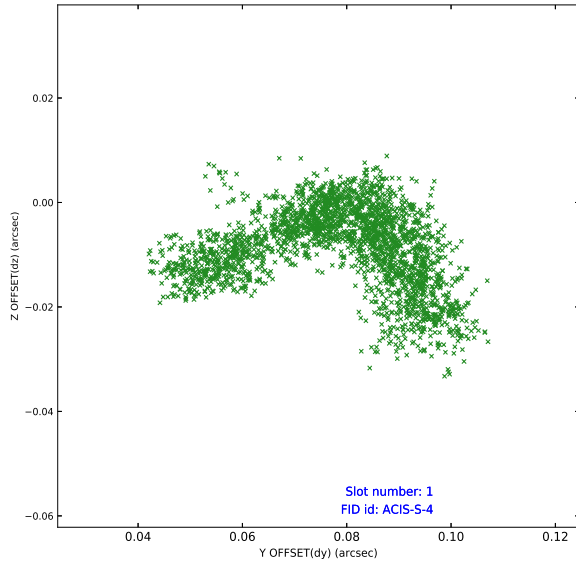


## 2.5 FID Slots

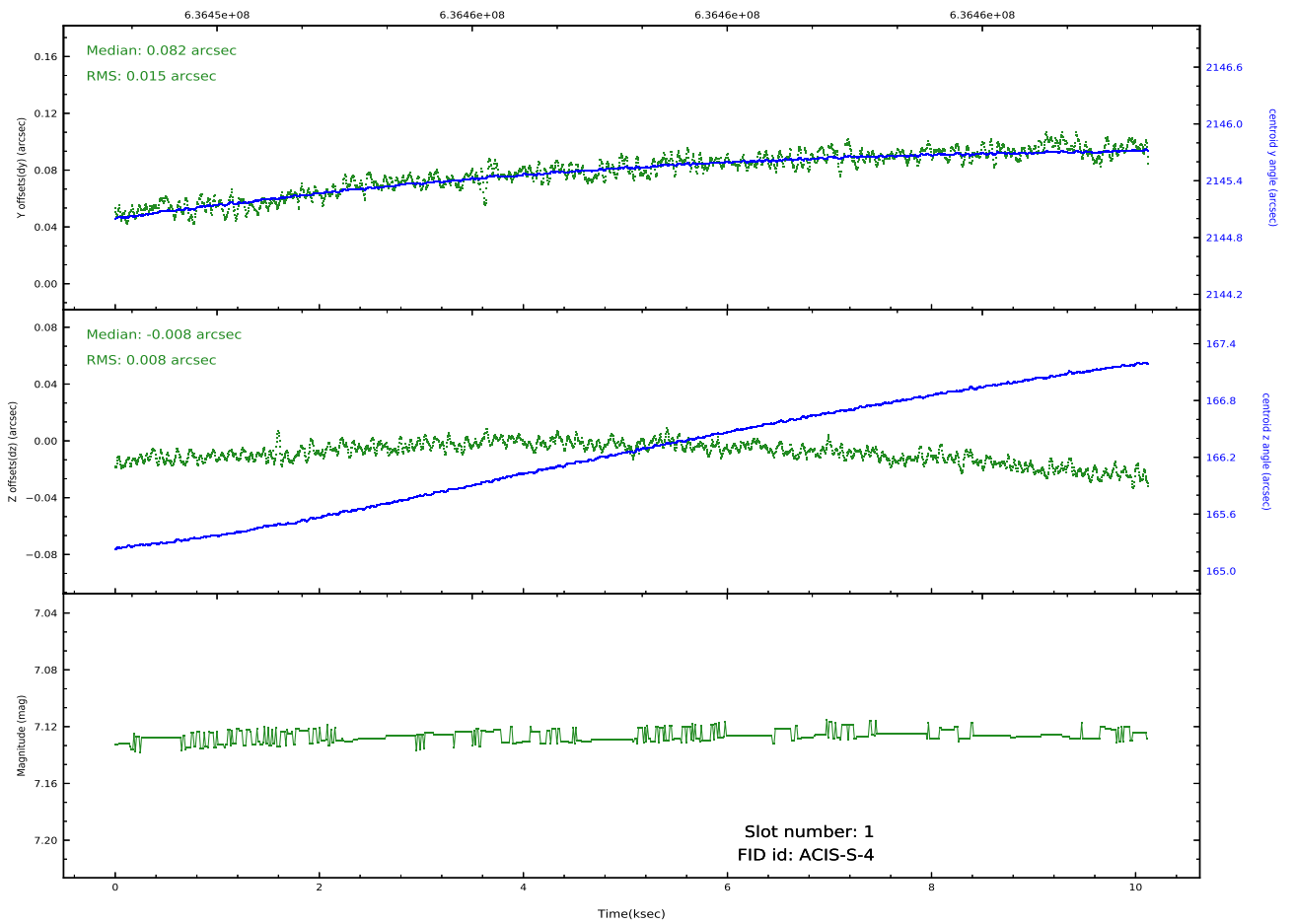
### 2.5.1 Slot 0



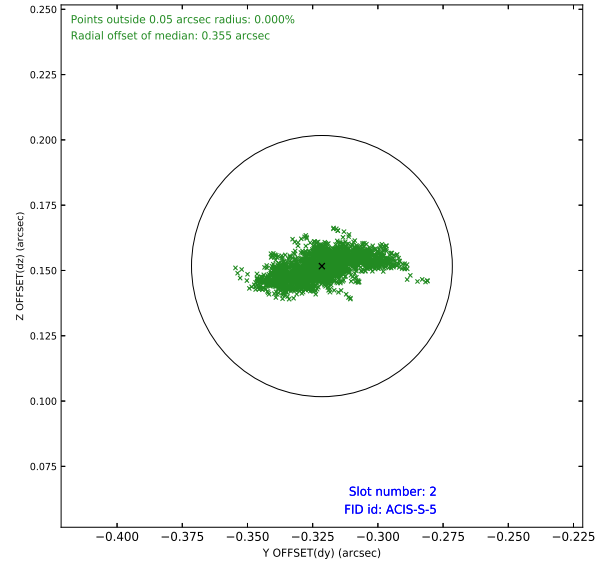
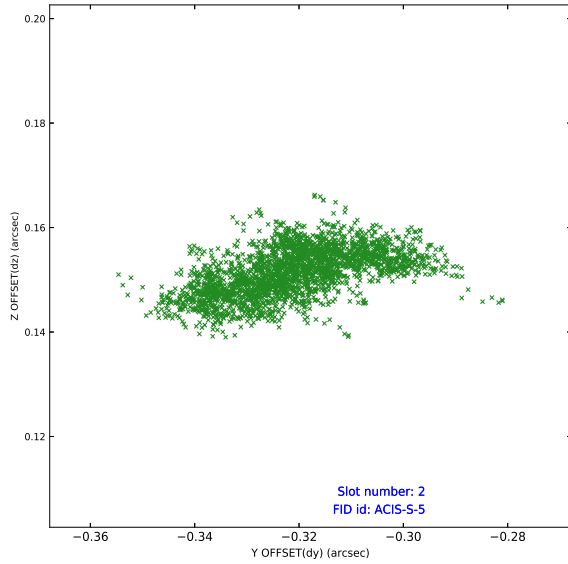
## 2.5.2 Slot 1



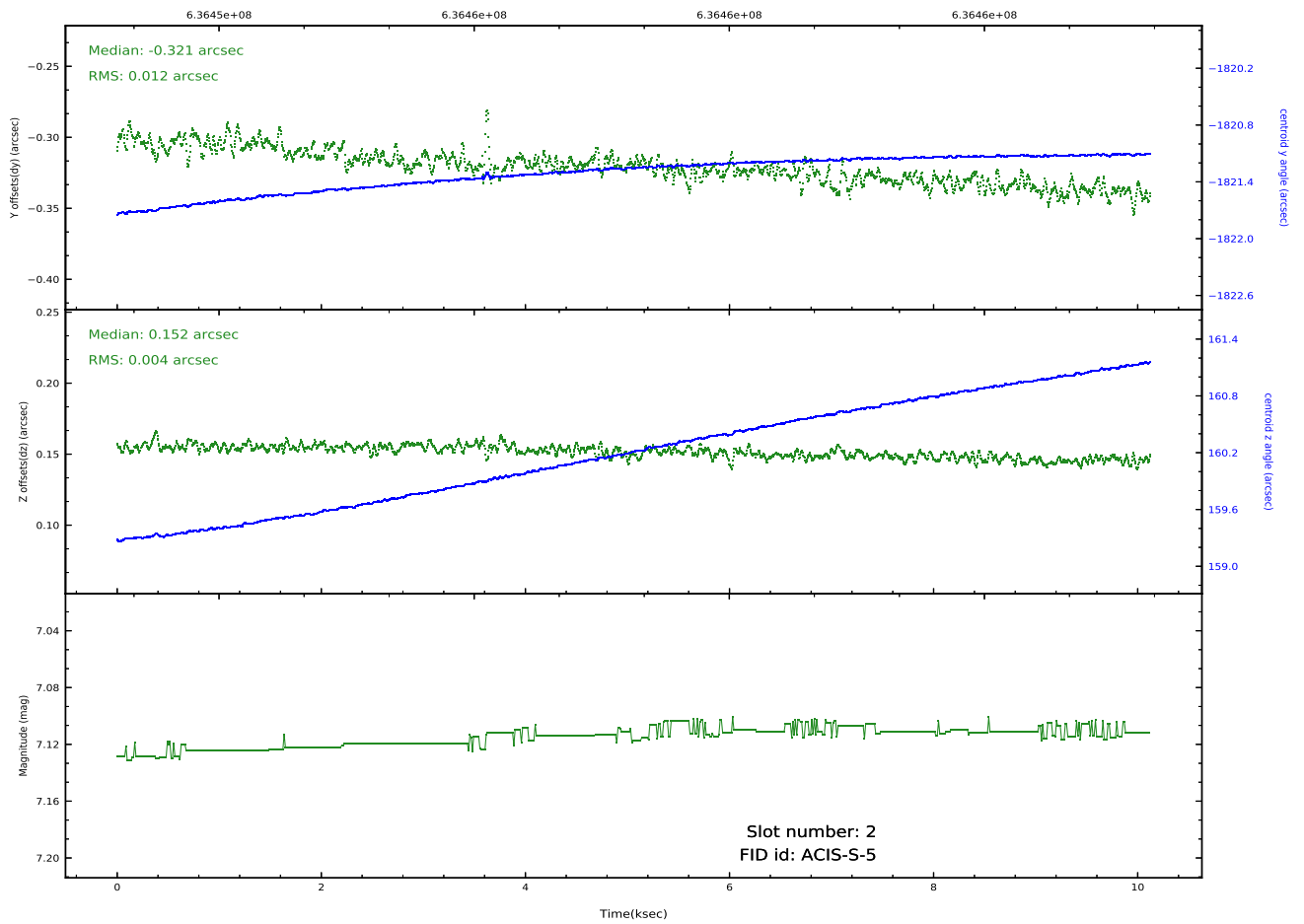
Time (s)



## 2.5.3 Slot 2



Time (s)



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.060652888894

## A.2 Comments