

# V&V Reference Report

## L2 ASCDS Version : 10.9

Observation 23349 - L2 Version 1  
Chandra X-Ray Center

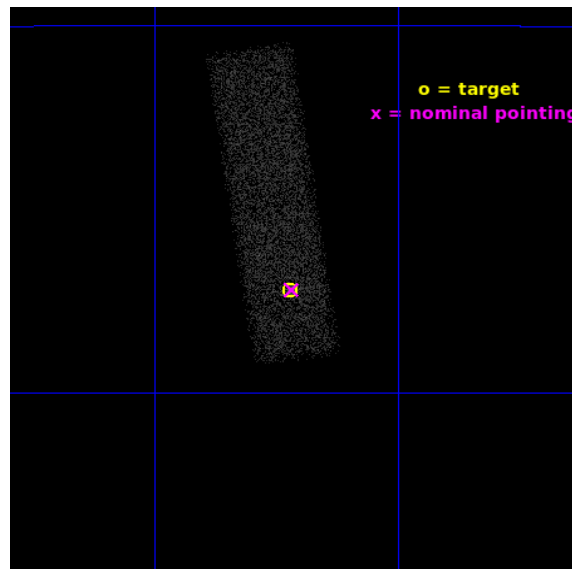
L2 Processing Date : Aug 5 2020

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

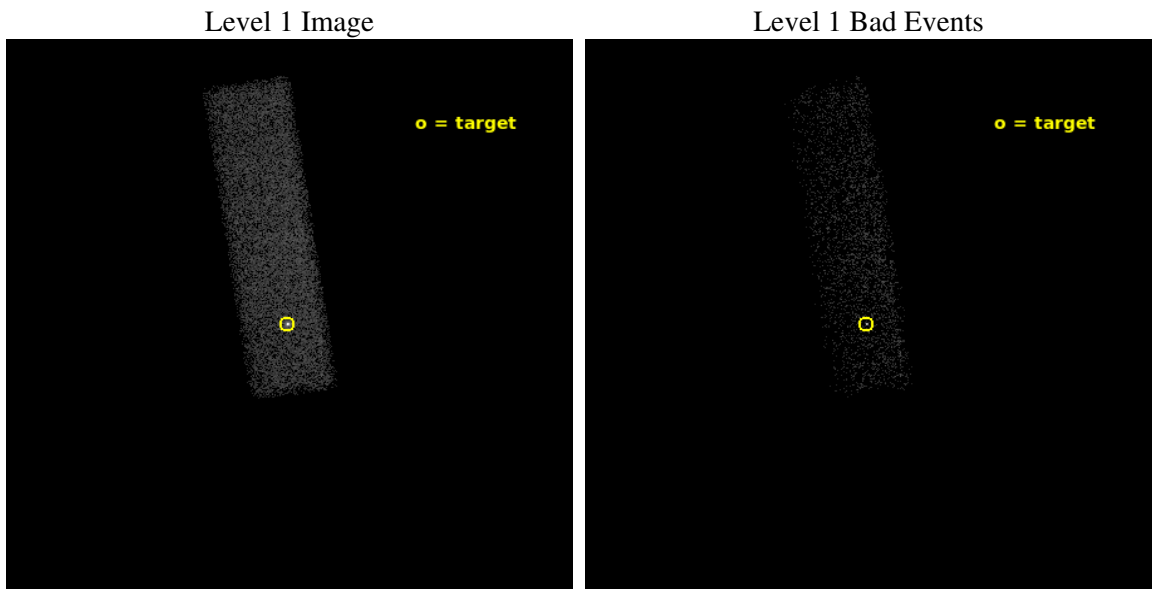
seq_num	704057	Sequence number
obs_id	23349	Observation id
title	C-BASS: A Chandra Legacy Survey of AGN at the Highest Spatial Resolutions	Proposal title
observer	Michael Koss	Principal investigator
object	ESO 450-16	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	237.180313	Observer's specified target RA [deg]
dec_targ	-32.119881	Observer's specified target Dec [deg]
ra_nom	237.17945766621	Nominal RA [deg]
dec_nom	-32.119814043099	Nominal Dec [deg]
roll_nom	261.59938572016	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10060.796999931	Sum of GTIs [s]
livetime	9569.8630266635	Livetime [s]
ontime7	10060.796999931	Sum of GTIs [s]
l2events	16527	Number of level 2 events



## 2 OBI

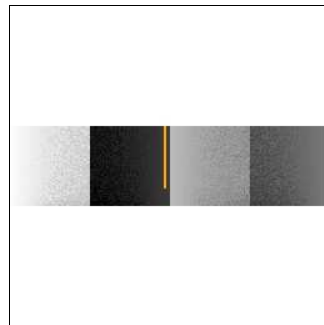
### 2.1 OBI

#### 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	10060.796999931	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime7	10060.796999931	Sum of GTIs [s]
date	2020-08-05T04:50:11	Date and time of file creation	l1events	31388	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

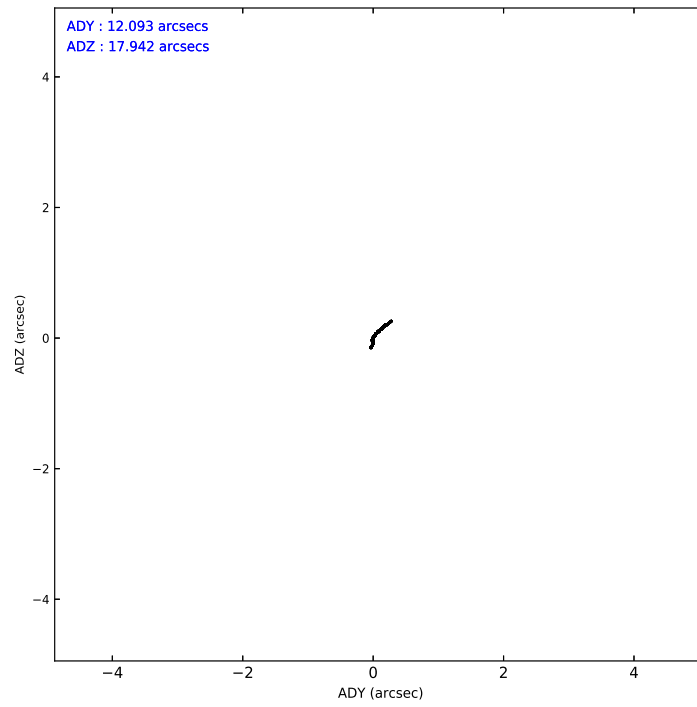
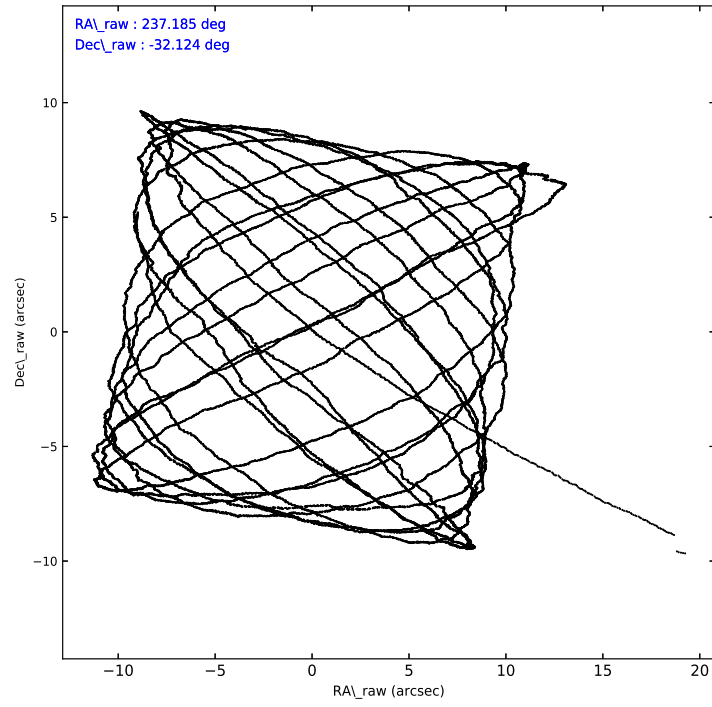
	<b>ccd 7</b>
level 1 events	31388
rejected events	14443
rejected %	<b>46%</b>

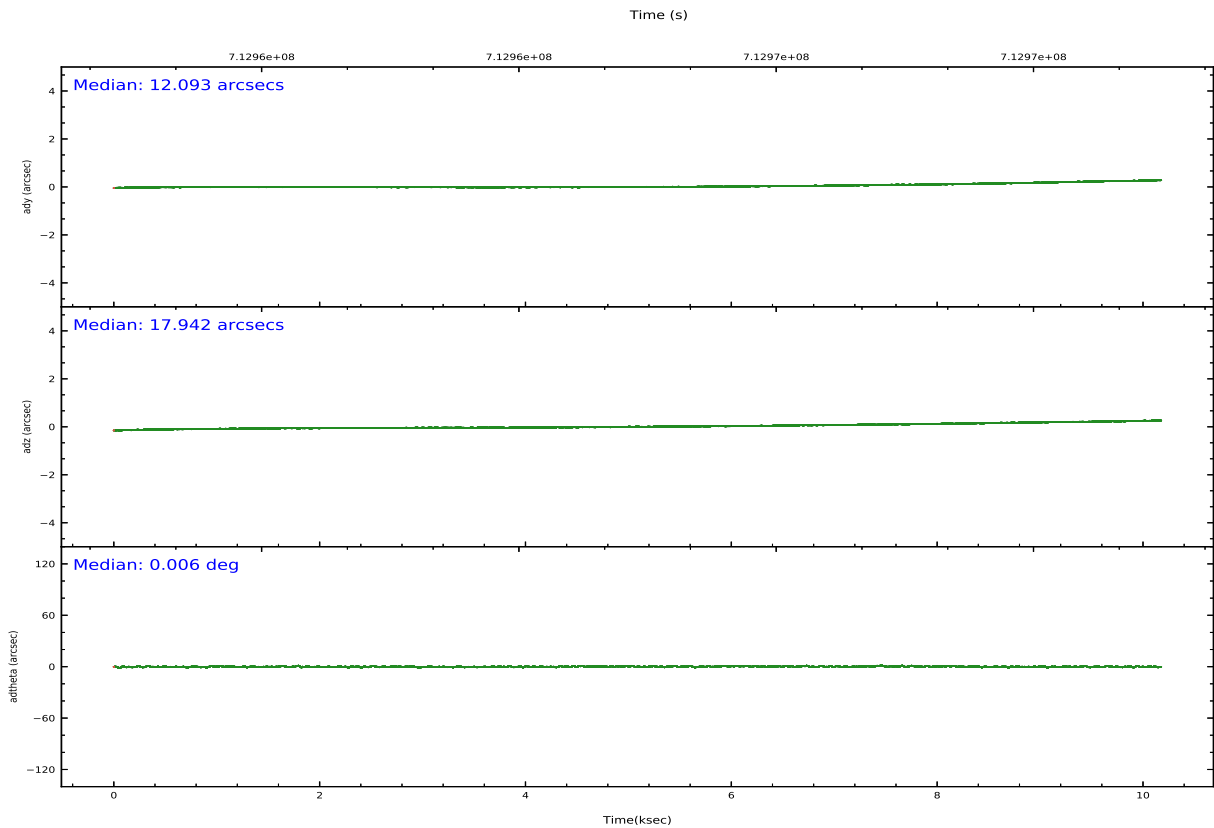
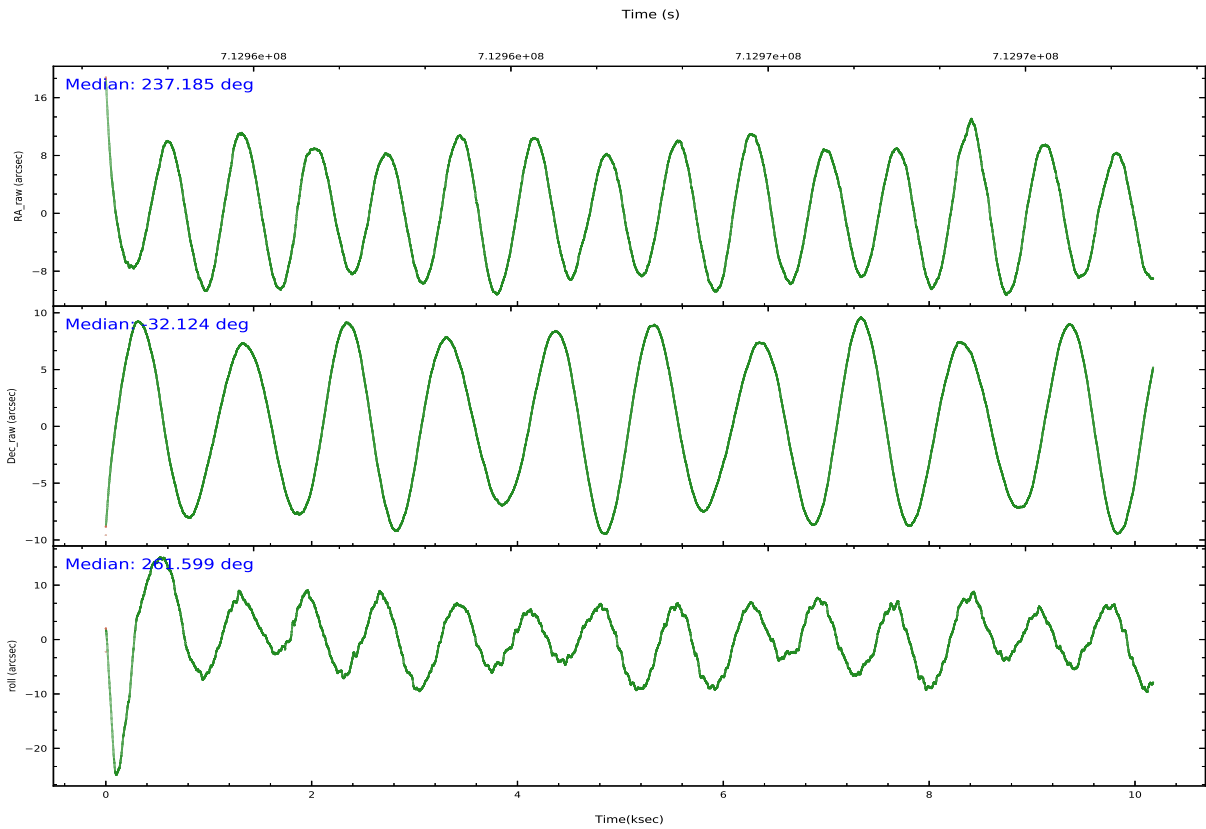
	<b>ccd 7</b>
grade 0 events	2246
	7%
grade 1 events	80
	0%
grade 2 events	3515
	11%
grade 3 events	1842
	5%
grade 4 events	1869
	5%
grade 5 events	2690
	8%
grade 6 events	7475
	23%
grade 7 events	11671
	37%

## 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	237.172567	237.17945766621	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-32.098654	-32.119814043099	Subarray start row	385	385
[deg] Pointing Roll	261.438804	261.59938572016	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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	712961240.184000	712960391.59076			
Observation start date	2020-08-04T20:46:11	2020-08-04T20:33:11			
[s] Observation end time (MET)	712971240.184000	712971947.9539599			
Observation end date	2020-08-04T23:32:51	2020-08-04T23:45:47			
Read mode	TIMED	TIMED			

## 2.3 Aspect



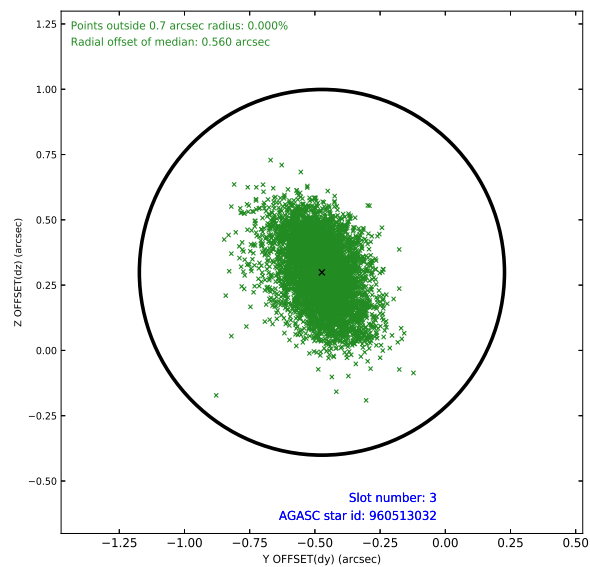
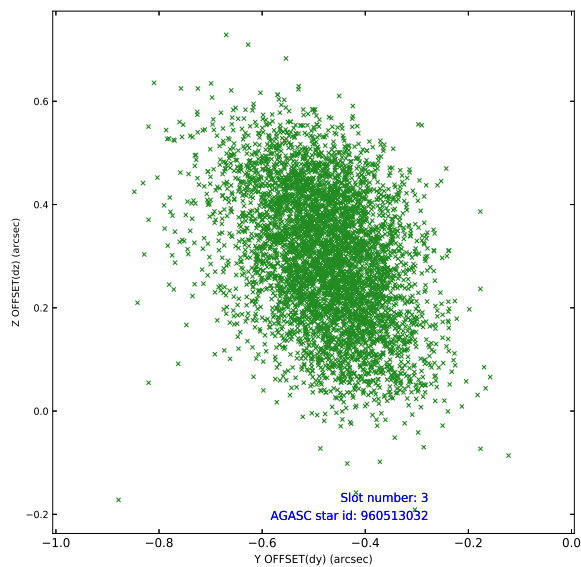


### Slot Statistics

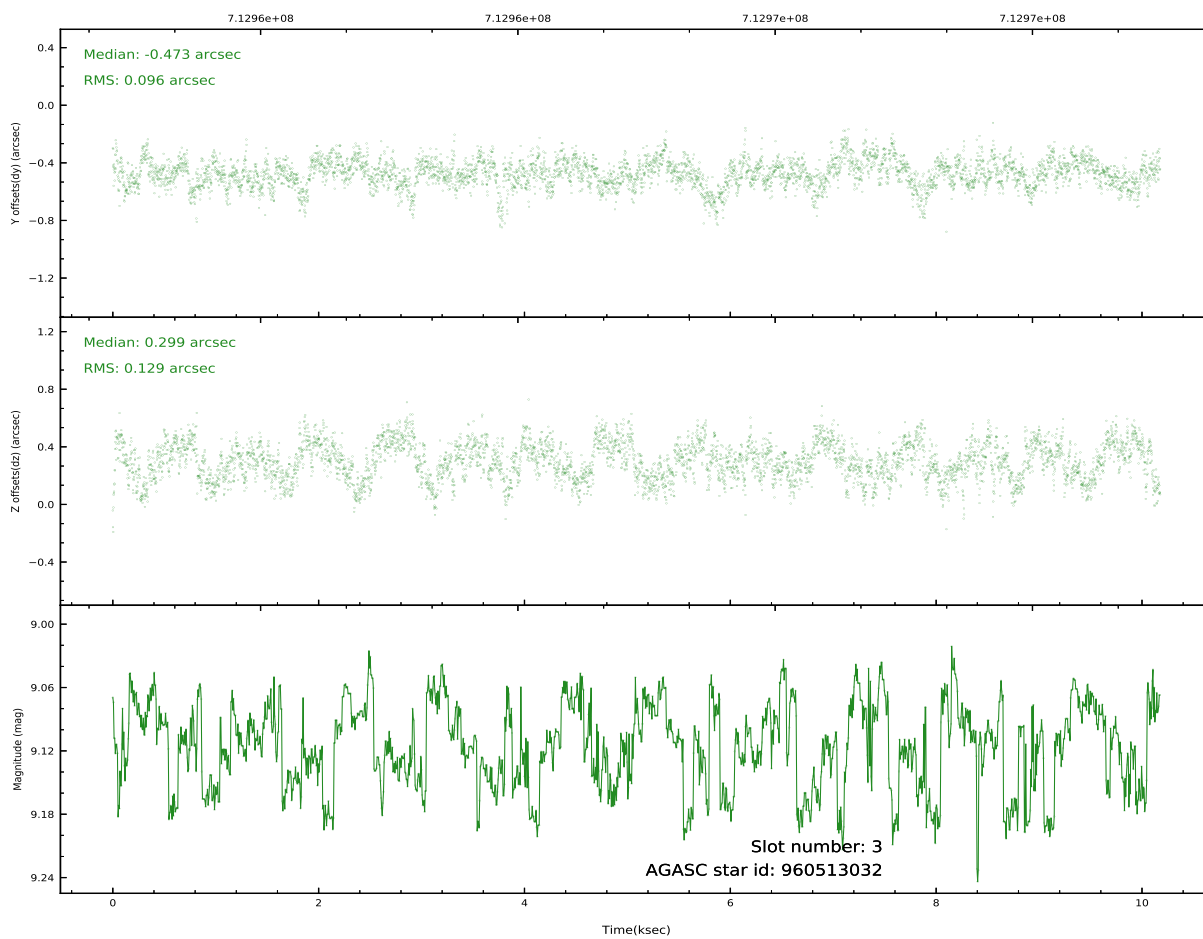
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.15	2483	1.000	0.215	-0.124	0.008	0.013	0.000000	0.000000	-765.13	-1739
1	FID		ACIS-S-4	7.29	2483	1.000	0.111	-0.070	0.007	0.012	0.000000	0.000000	2148.14	168
2	FID		ACIS-S-5	7.29	2483	1.000	-0.357	0.202	0.010	0.017	0.000000	0.000000	-1817.55	163
3	GUIDE	used	960513032	9.11	4961	1.000	-0.473	0.299	0.170	0.280	237.613833	-31.536167	-2201.48	1038
4	GUIDE	used	961019936	9.22	4955	1.000	0.193	-0.044	0.255	0.394	236.837303	-32.682542	2231.26	-691
5	GUIDE	used	961020208	8.30	4962	1.000	-0.008	-0.088	0.109	0.195	237.450254	-32.132786	-2.76	855
6	GUIDE	used	961021064	9.06	4962	1.000	0.070	-0.173	0.166	0.267	236.573461	-32.204433	653.26	-1747
7	GUIDE	used	961030176	8.05	4960	1.000	0.226	0.012	0.128	0.211	236.920796	-32.736671	2386.54	-412

## 2.4 Star Slots

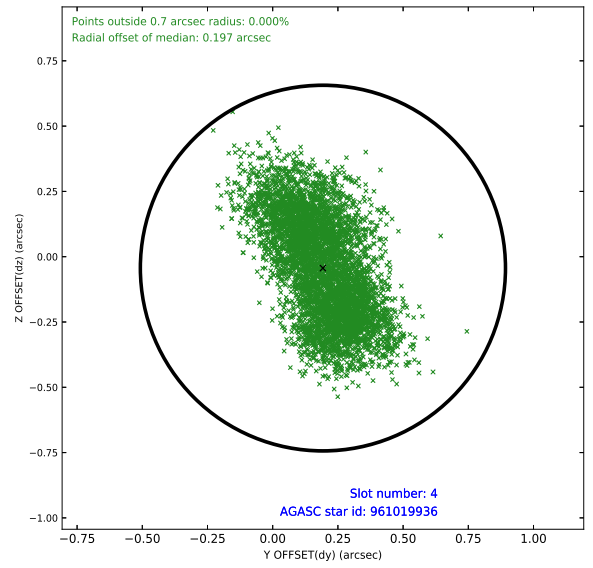
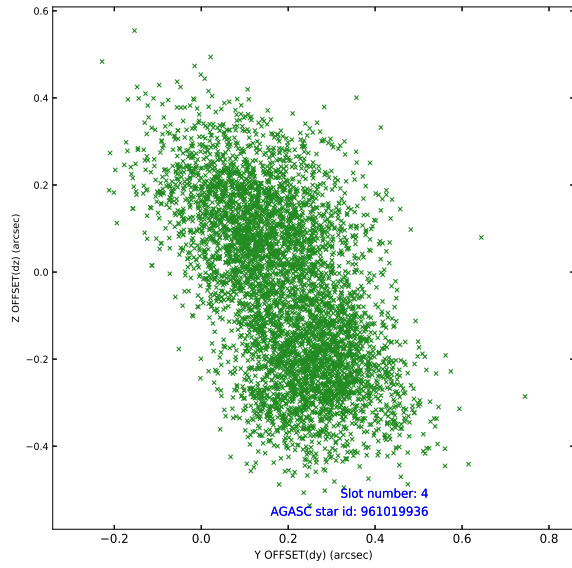
### 2.4.1 Slot 3



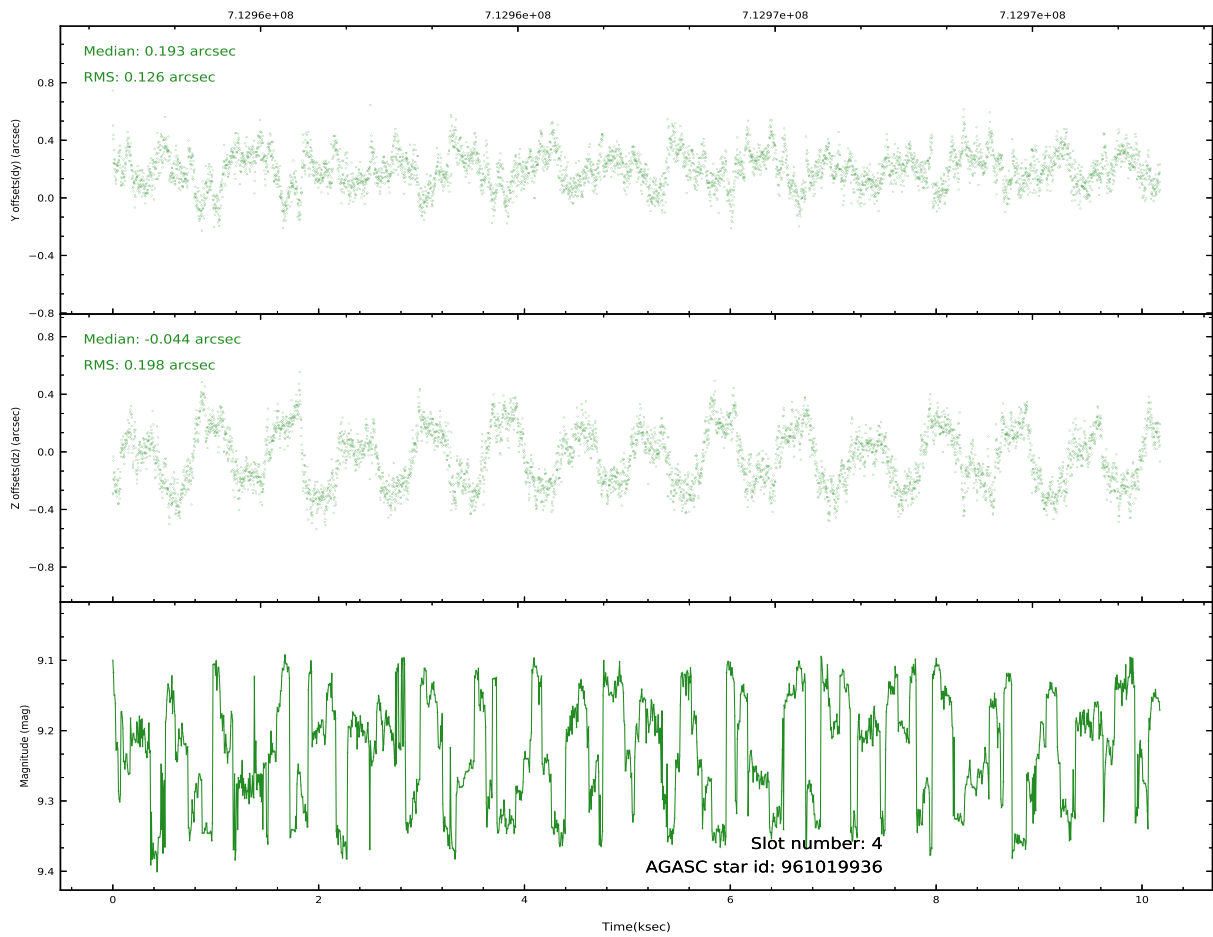
Time (s)



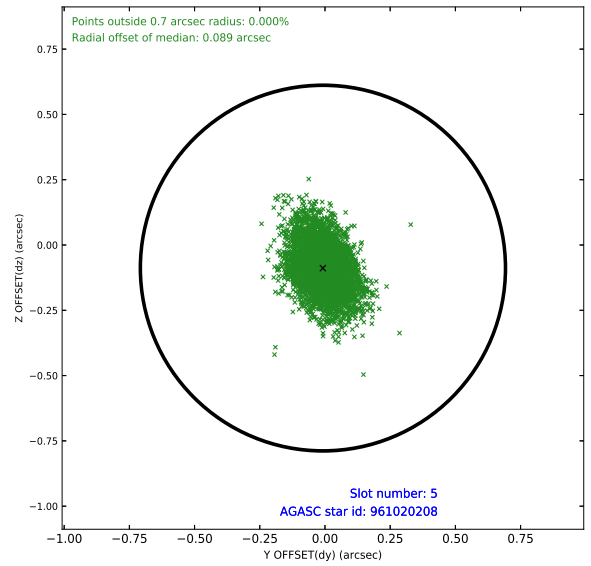
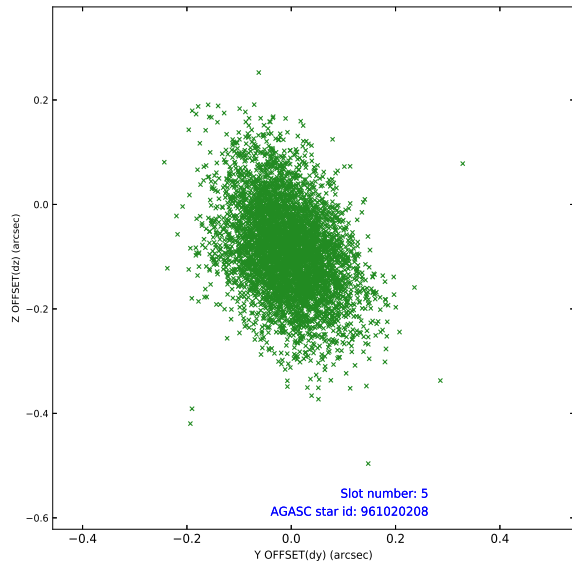
## 2.4.2 Slot 4



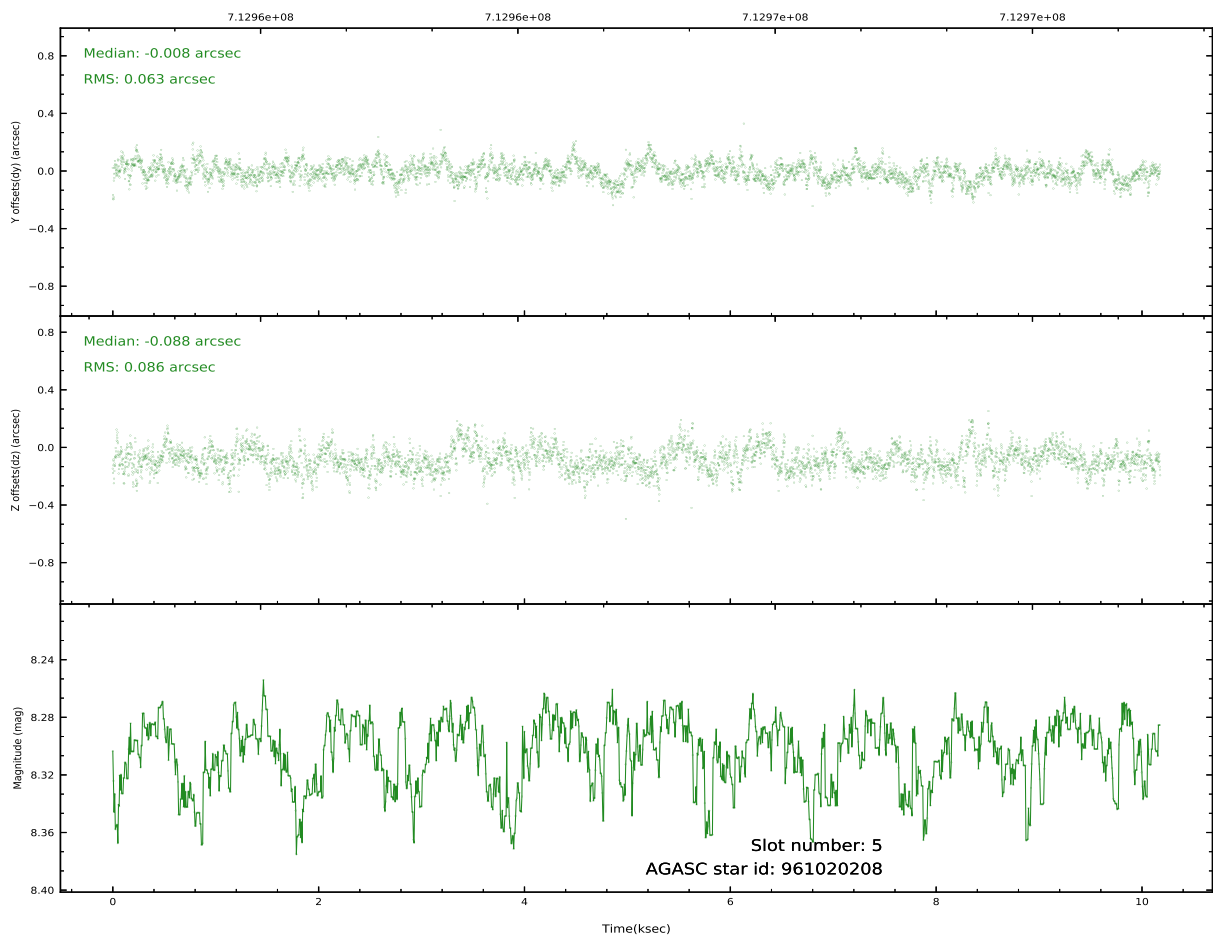
Time (s)



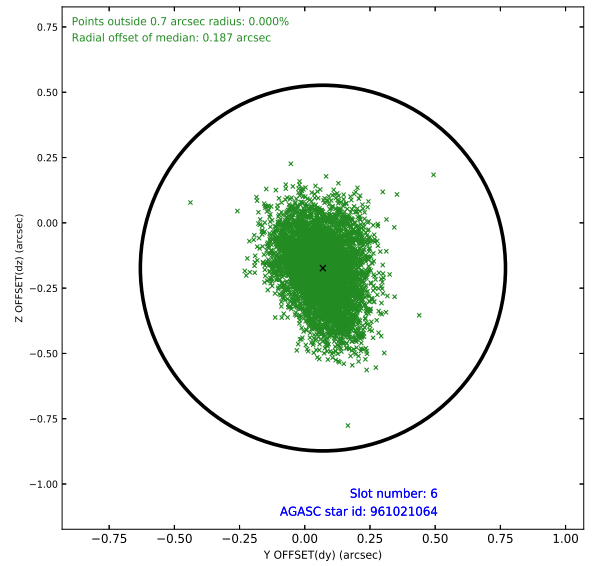
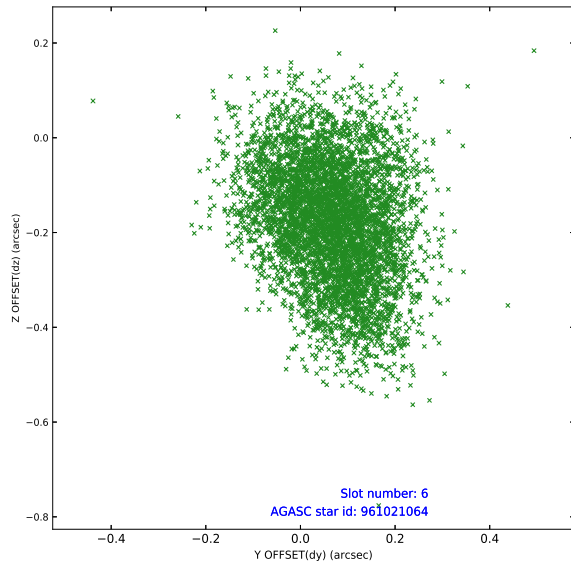
### 2.4.3 Slot 5



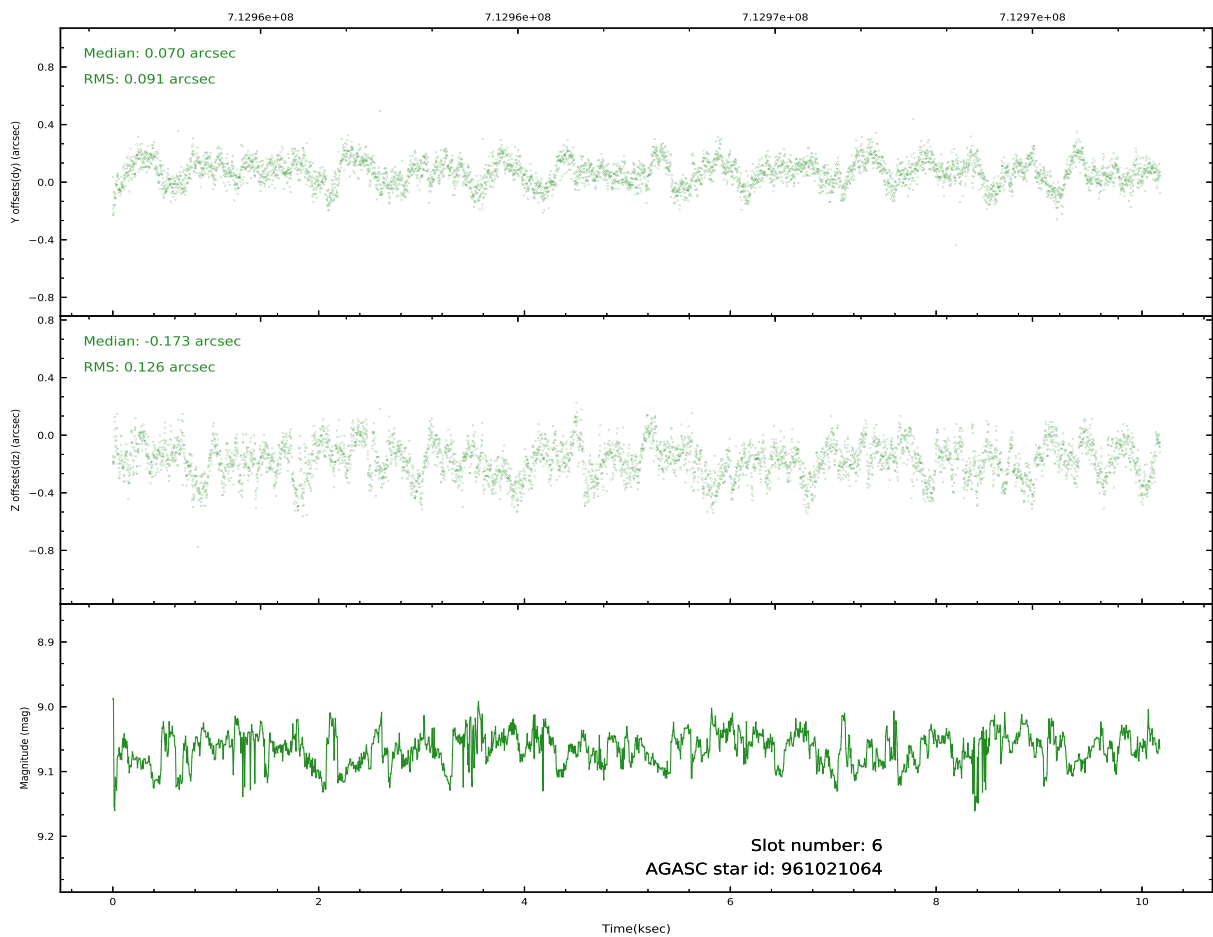
Time (s)



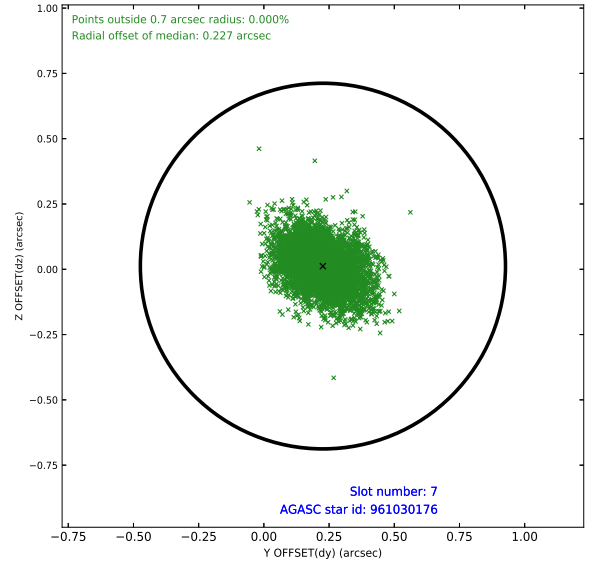
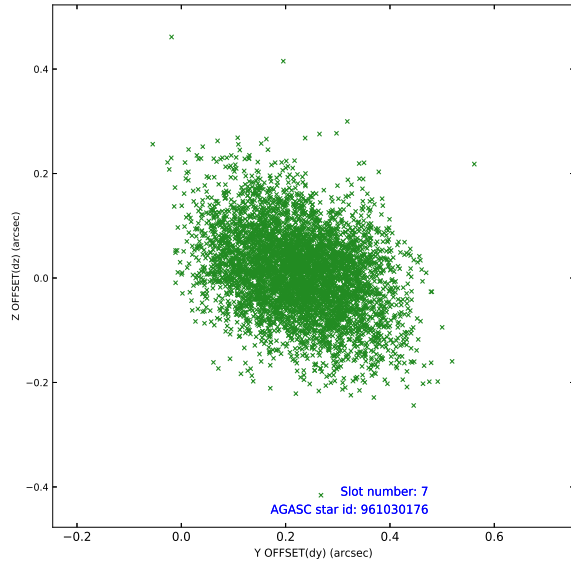
## 2.4.4 Slot 6



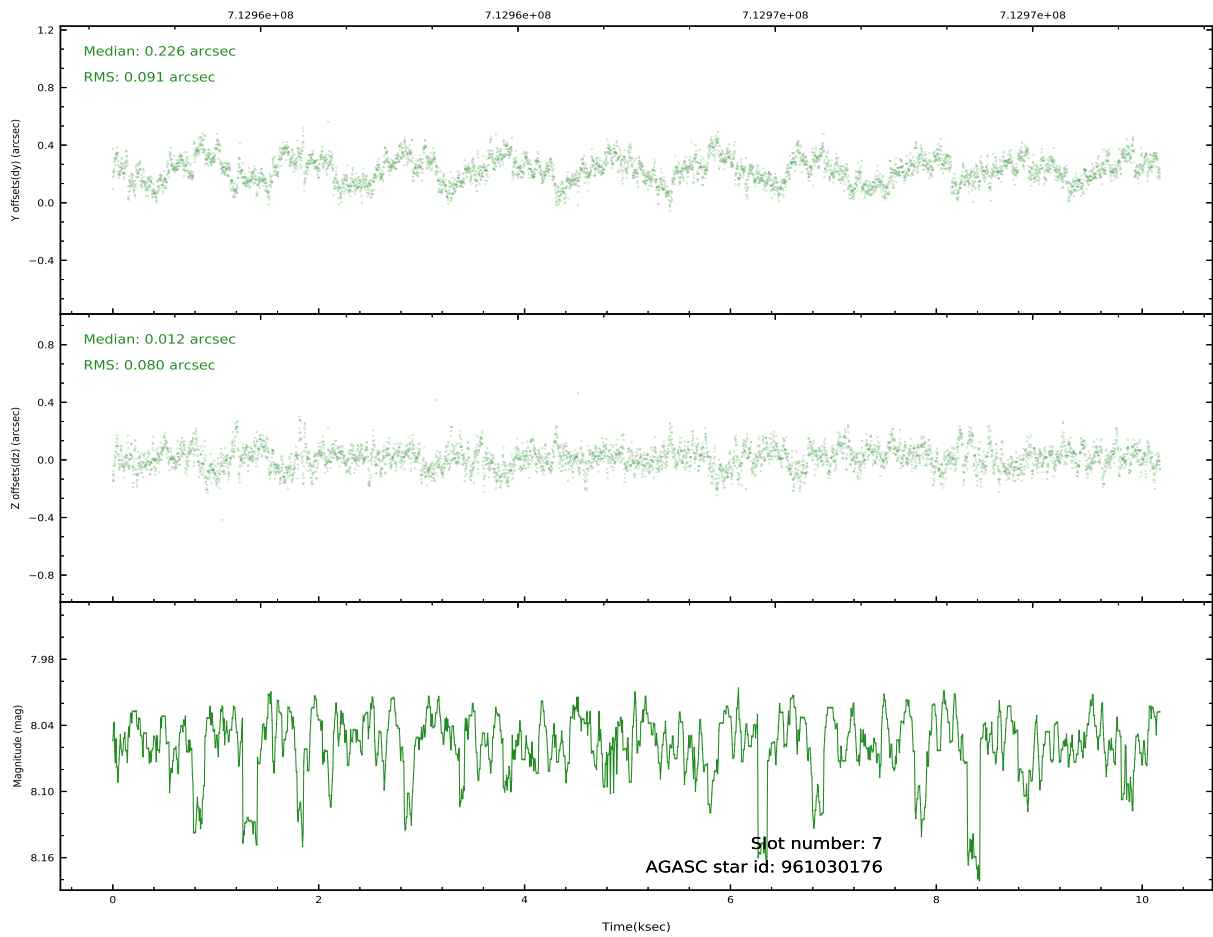
Time (s)



## 2.4.5 Slot 7

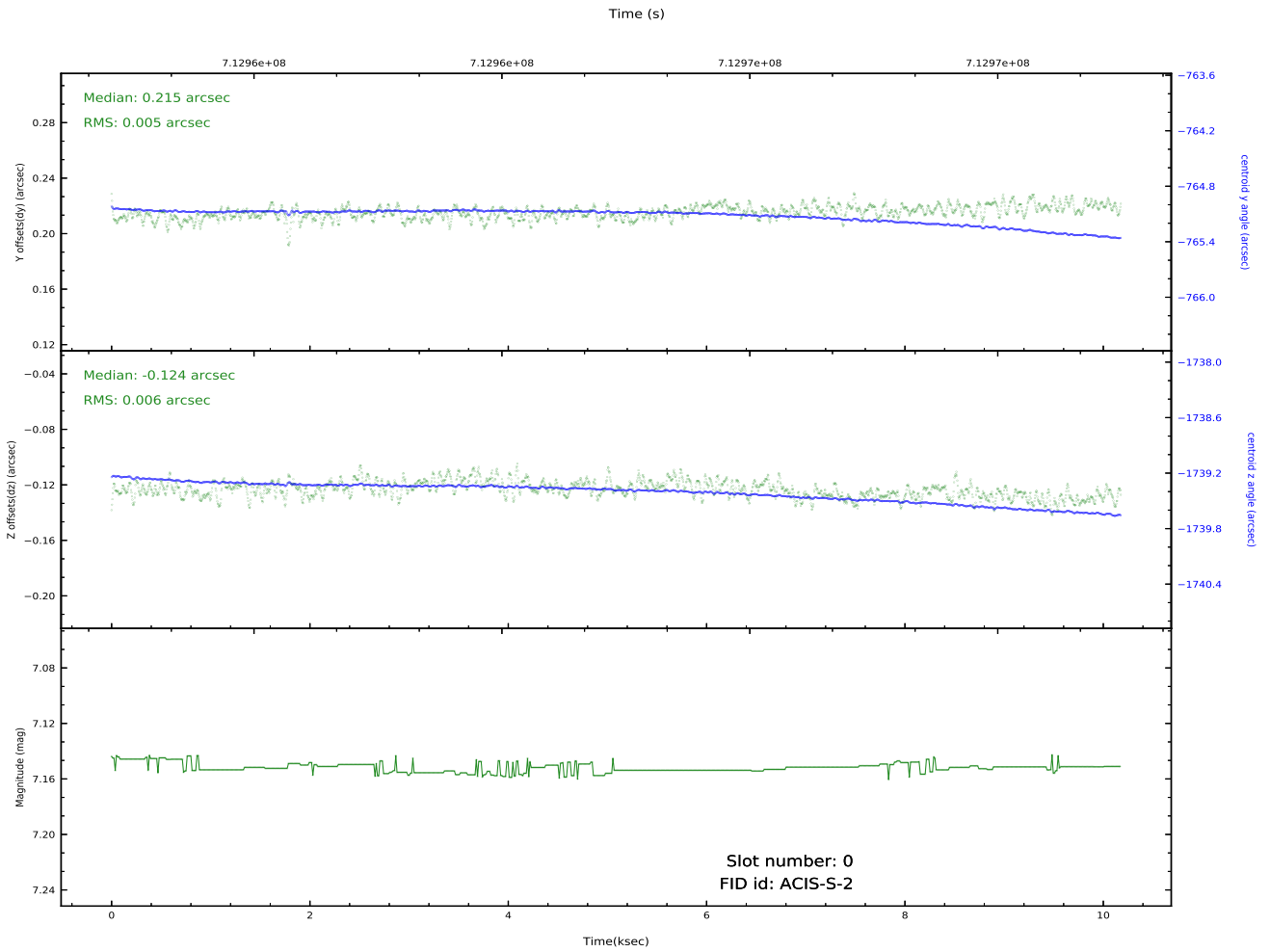
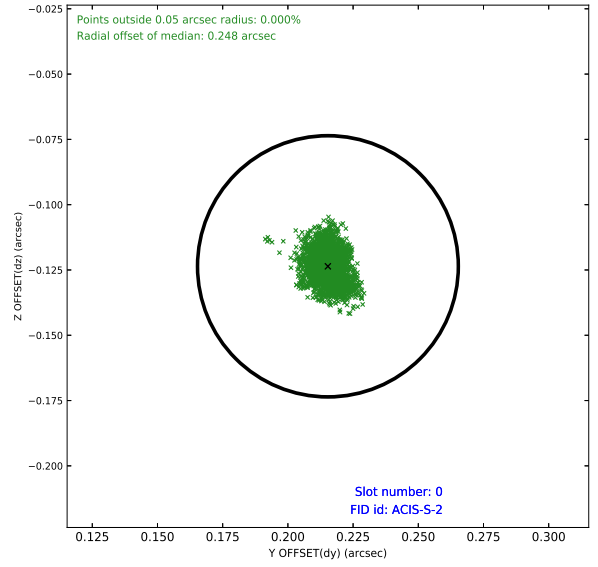
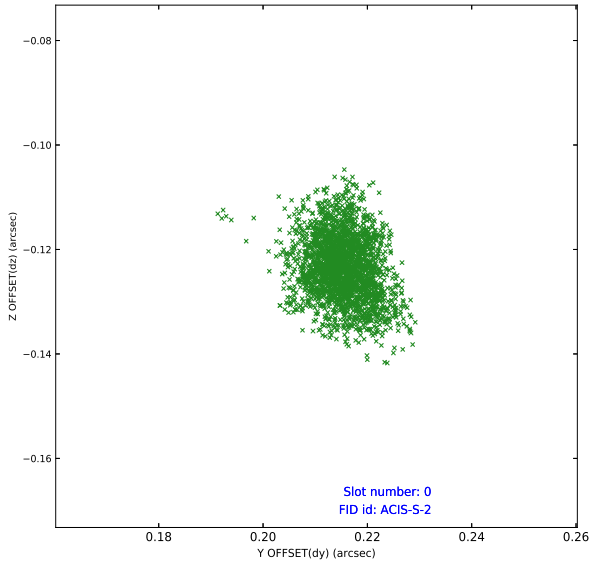


Time (s)

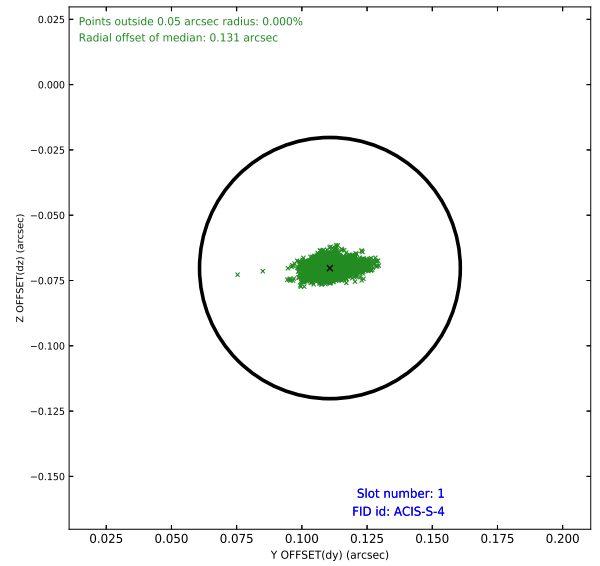
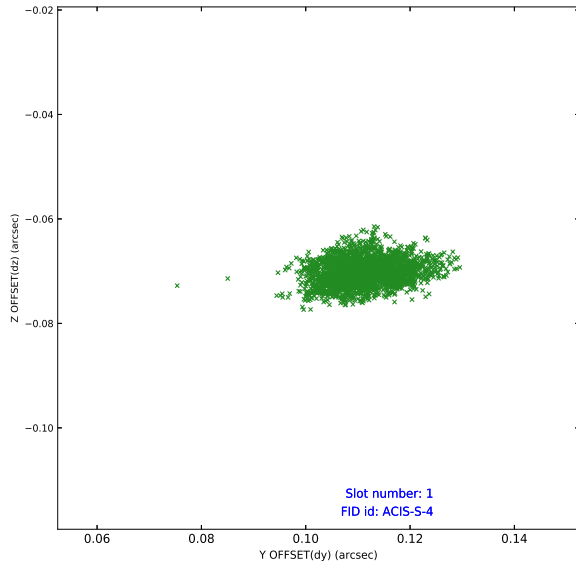


## 2.5 FID Slots

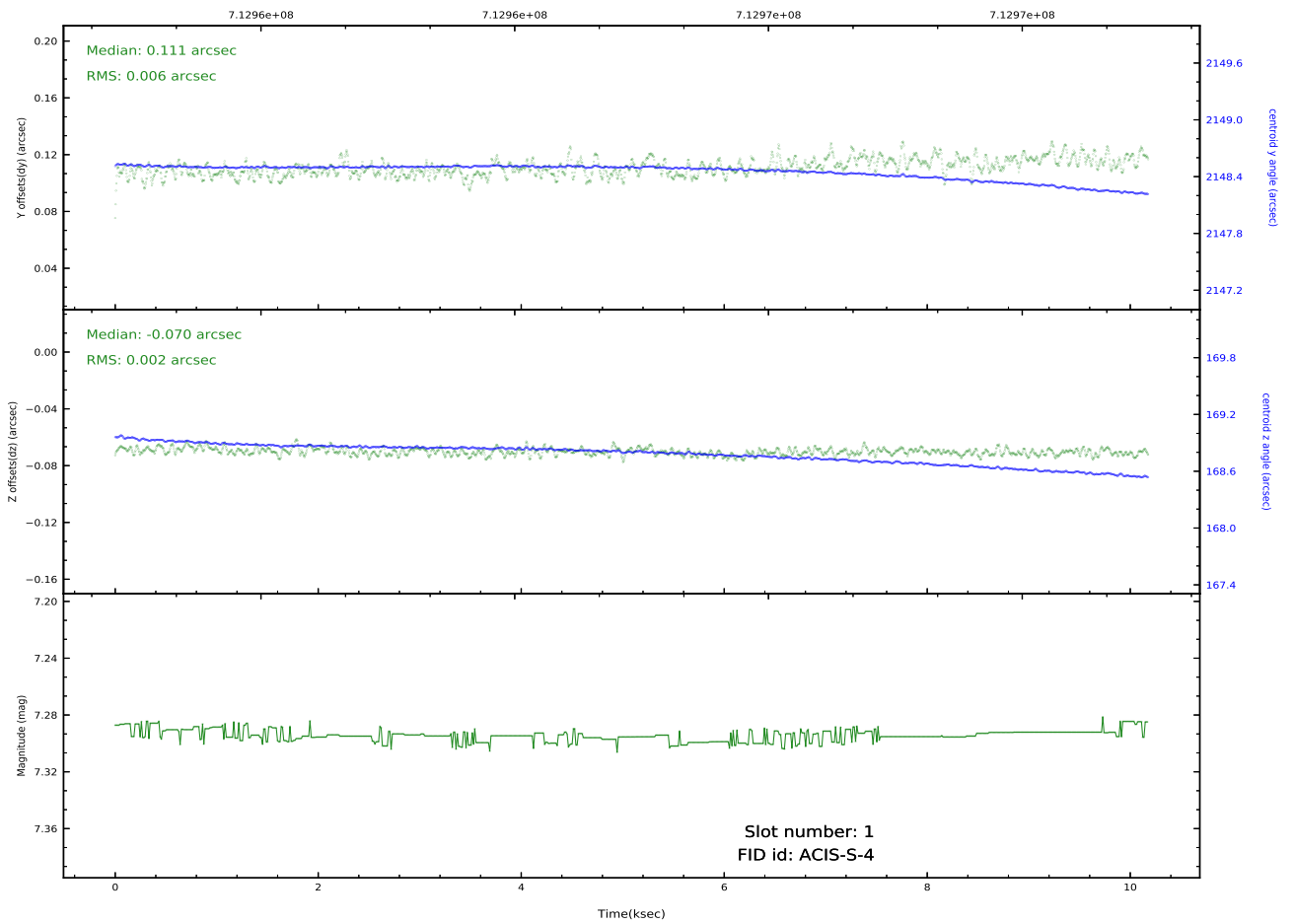
### 2.5.1 Slot 0



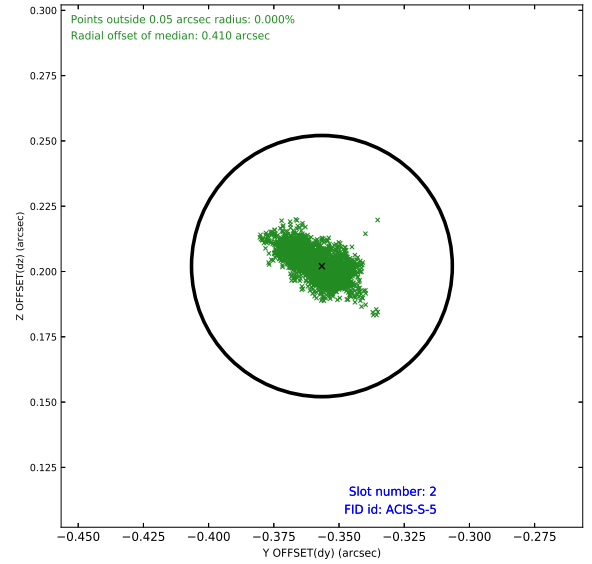
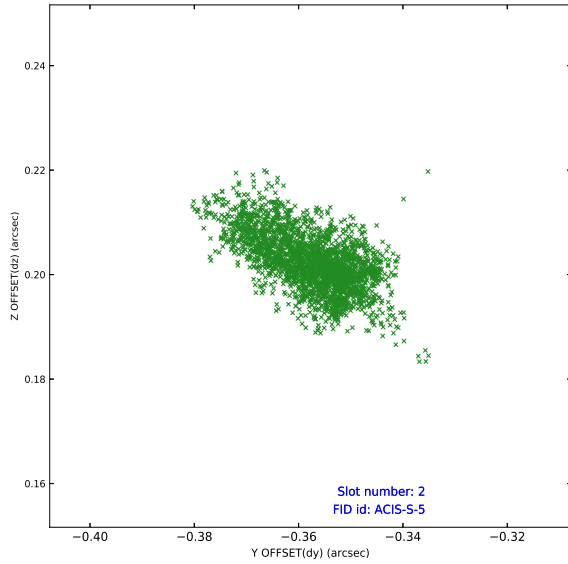
## 2.5.2 Slot 1



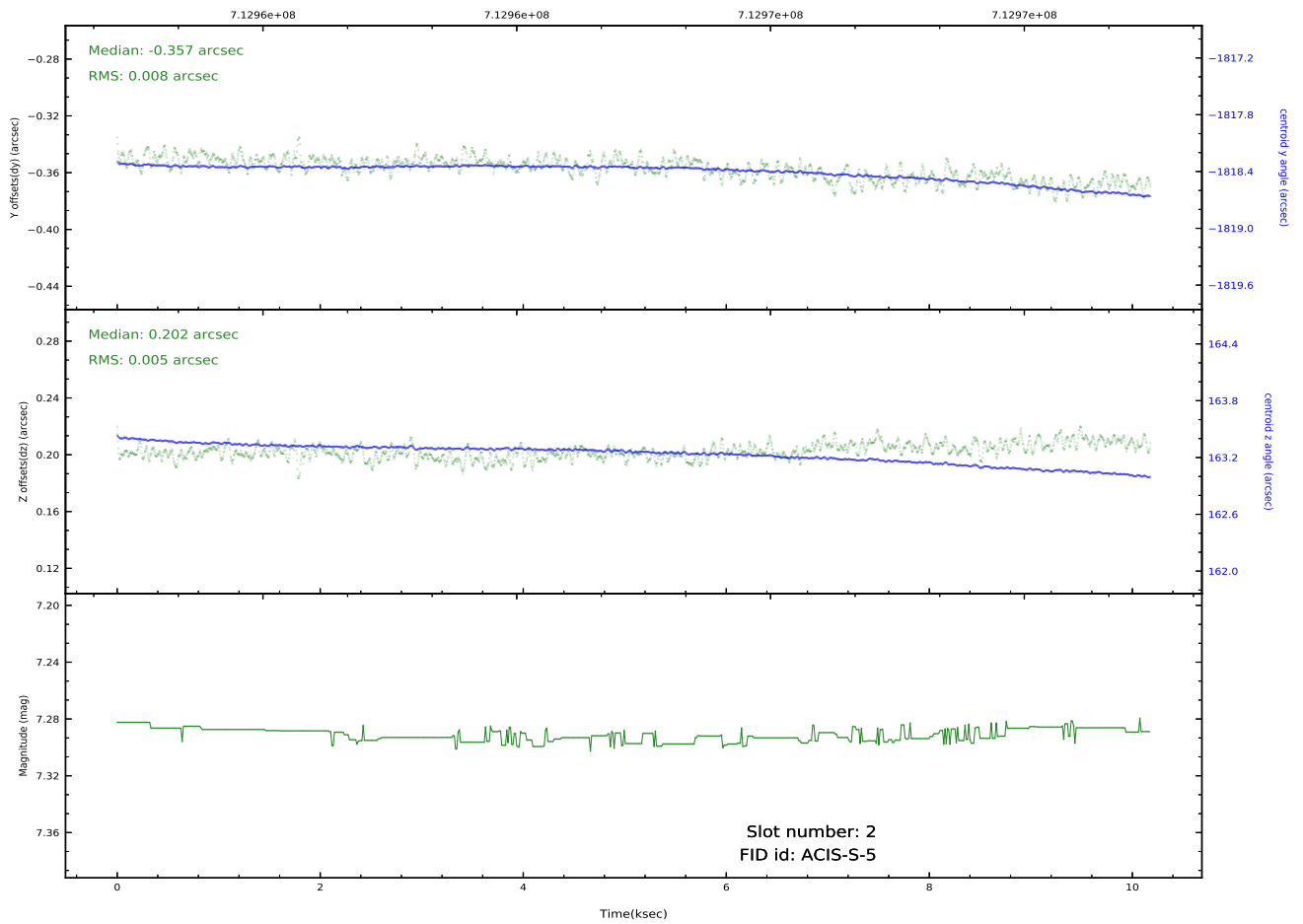
Time (s)



### 2.5.3 Slot 2



Time (s)



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.08.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.060796999931

## A.2 Comments