

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 6390 - L2 Version 6  
Chandra X-Ray Center

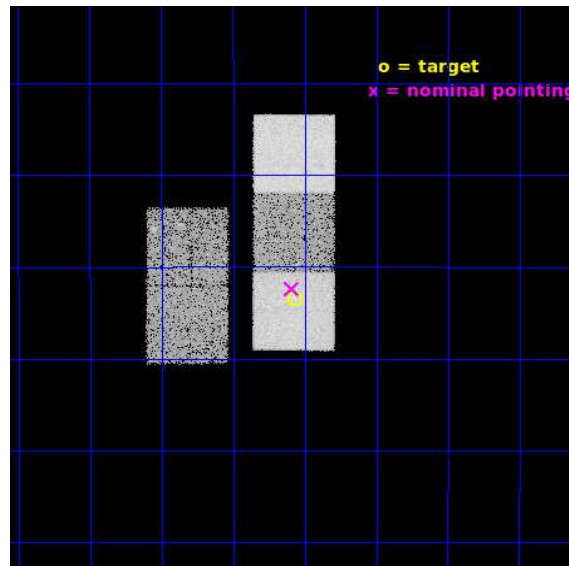
L2 Processing Date : Oct 10 2020

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# 1 Front

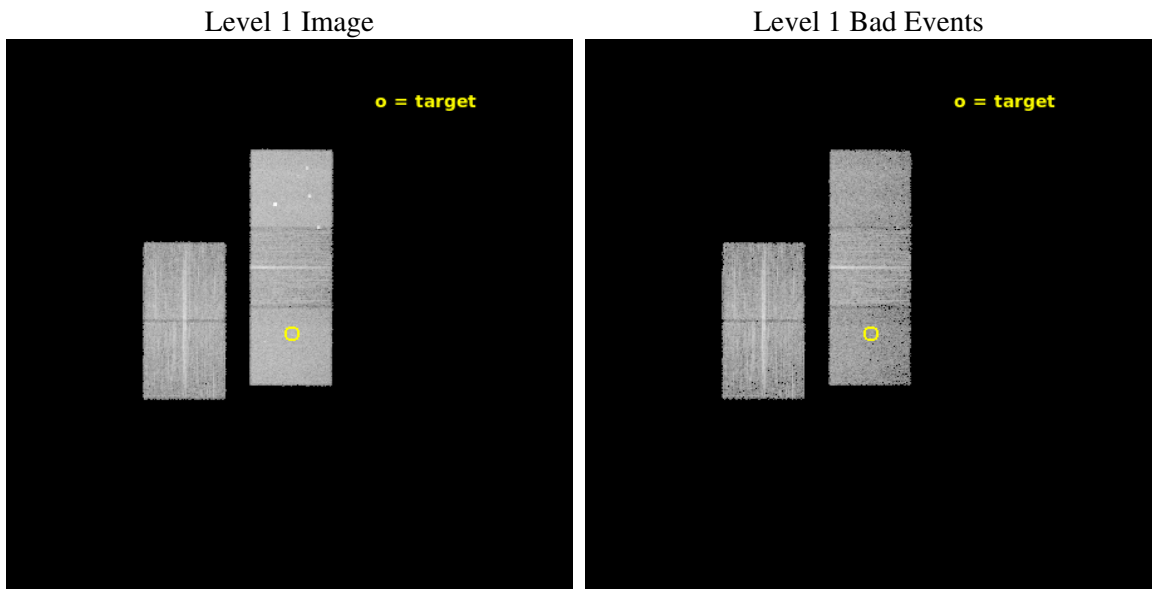
seq_num	800500	Sequence number
obs_id	6390	Observation id
title	A detailed study of a z>1 galaxy cluster	Proposal title
observer	Dr Laurence Jones	Principal investigator
object	2XLSSd J022404.2-041331	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.017083	Observer's specified target RA [deg]
dec_targ	-4.224694	Observer's specified target Dec [deg]
ra_nom	36.021999516896	Nominal RA [deg]
dec_nom	-4.206067569475	Nominal Dec [deg]
roll_nom	90.152705344588	Nominal Roll [deg]
revision	6	Processing version of data
ontime	12006.299976885	Sum of GTIs [s]
livetime	11849.428828778	Livetime [s]
ontime2	12003.159086168	Sum of GTIs [s]
ontime3	12006.299976885	Sum of GTIs [s]
ontime5	12006.299976885	Sum of GTIs [s]
ontime6	12006.299976885	Sum of GTIs [s]
ontime7	12006.299976885	Sum of GTIs [s]
l2events	128133	Number of level 2 events



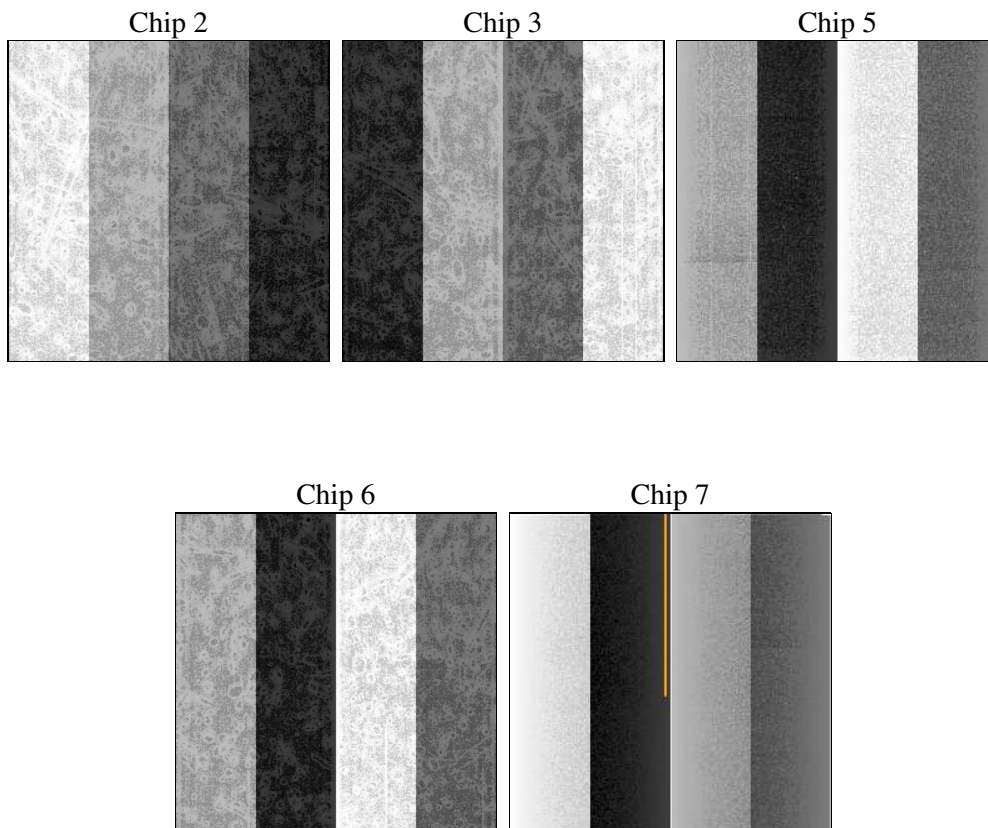
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	41664.172000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	12006.299976885	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime2	12003.159086168	Sum of GTIs [s]
date	2020-10-10T09:16:45	Date and time of file creation	ontime3	12006.299976885	Sum of GTIs [s]
revision	6	Processing version of data	ontime5	12006.299976885	Sum of GTIs [s]
			ontime6	12006.299976885	Sum of GTIs [s]
			ontime7	12006.299976885	Sum of GTIs [s]
			l1events	394955	Number of level 1 events

### 2.1.4 Events

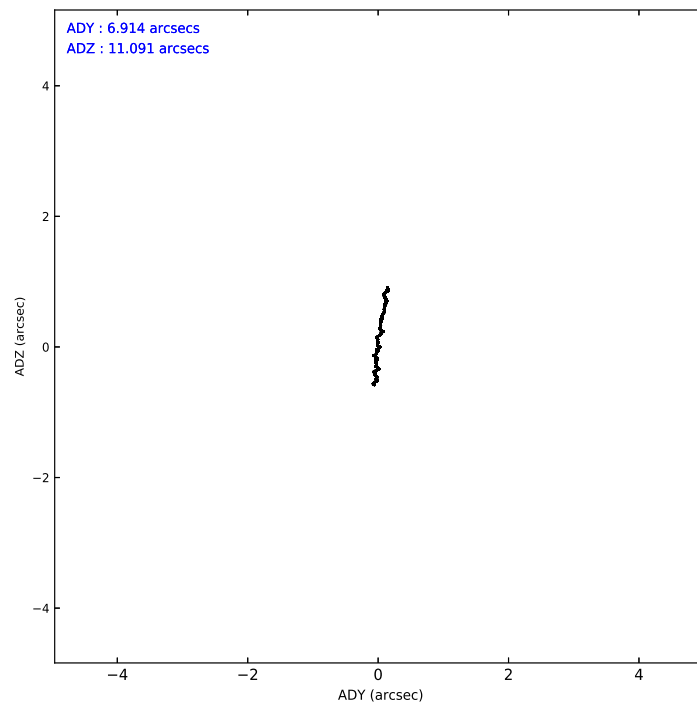
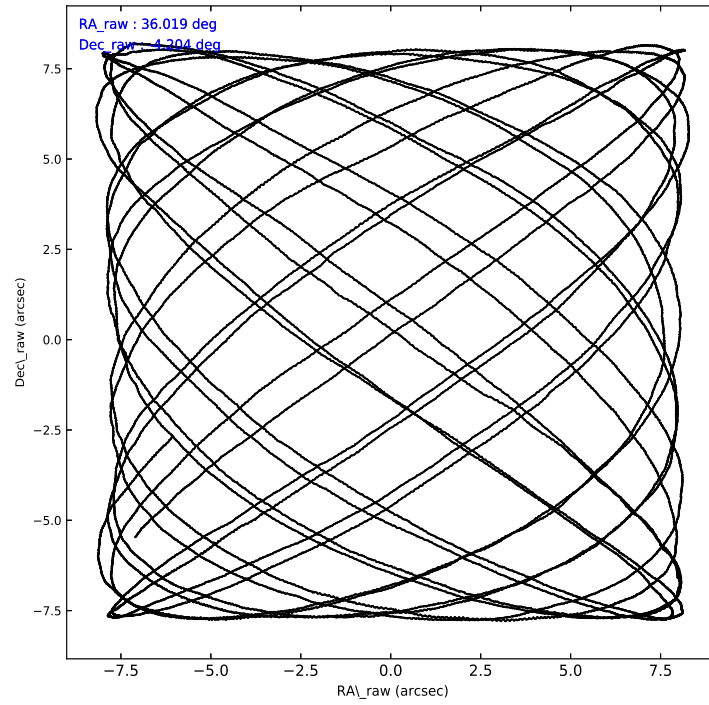
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	69368	67012	103211	70361	85003
rejected events	58343	56631	44629	58656	38463
rejected %	84%	84%	43%	83%	45%

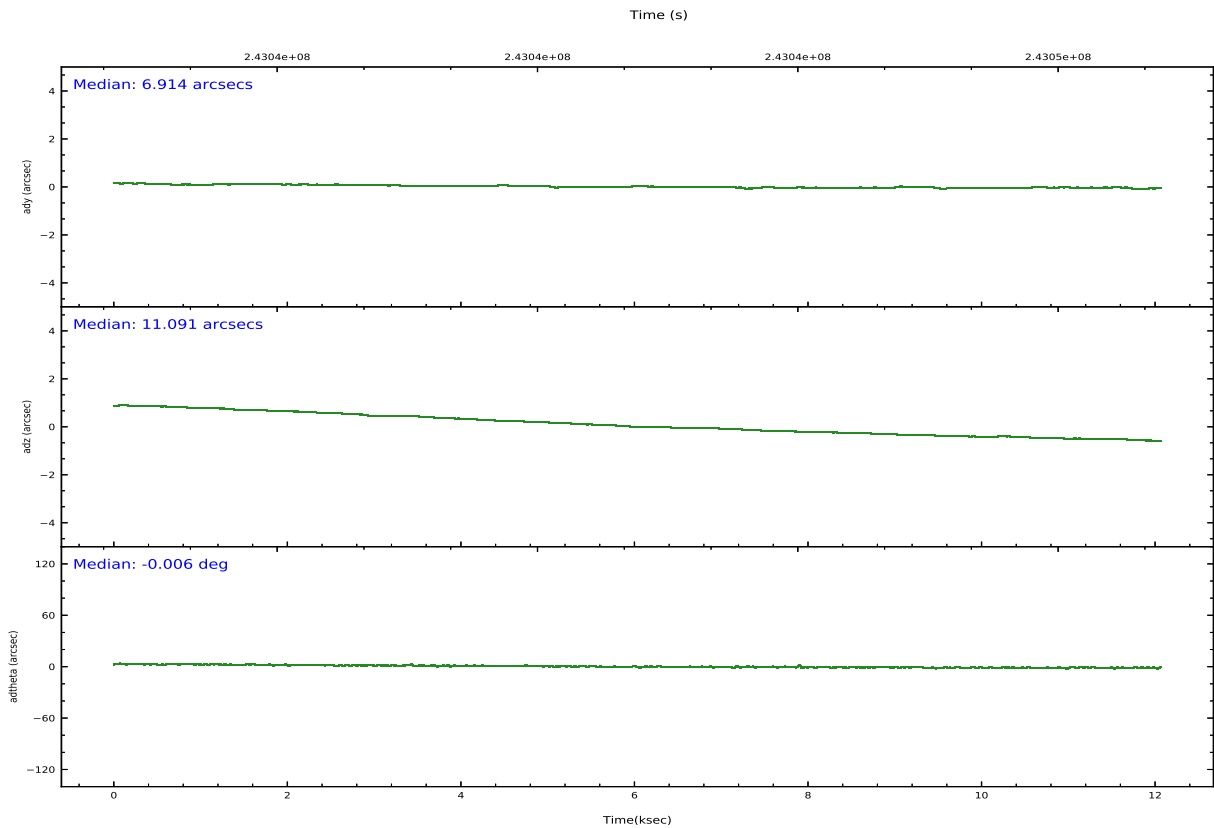
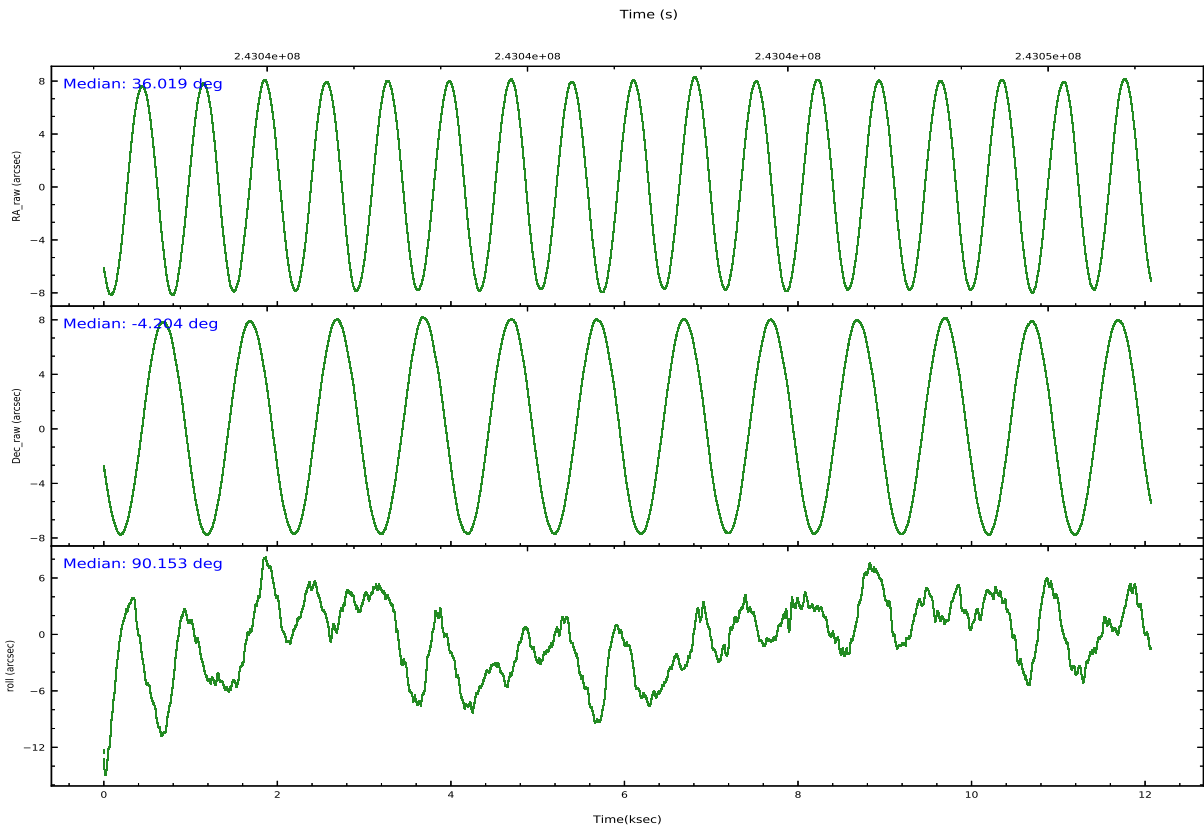
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	4584	4088	7169	4452	5422
	6%	6%	6%	6%	6%
grade 1 events	41	36	100	38	63
	0%	0%	0%	0%	0%
grade 2 events	2430	2046	18774	2269	9460
	3%	3%	18%	3%	11%
grade 3 events	895	996	2695	1034	4642
	1%	1%	2%	1%	5%
grade 4 events	992	965	2751	1006	4511
	1%	1%	2%	1%	5%
grade 5 events	1948	2312	7231	2446	7616
	2%	3%	7%	3%	8%
grade 6 events	2209	2344	27731	3025	22943
	3%	3%	26%	4%	26%
grade 7 events	56269	54225	36760	56091	30346
	81%	80%	35%	79%	35%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	8	8
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
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	36.032793	36.021999516896	Subarray requested	NONE	NONE
[deg] Pointing Dec	-4.227361	-4.206067569475	Alternating exposures requested	N	N
[deg] Pointing Roll	90.001156	90.152705344588	[s] Primary exposure time	3.1	3.1
[mm] SIM focus pos	-0.6828225247311905	-0.6828225247311905			
[mm] SIM defocus	0.001444942264670179	0.001444942264670179			
[mm] SIM translation stage pos	-190.1425803651734	-190.1425803651734			
[mm] SIM translation stage offset	0.01005726120618533	0.01005726120618533			
[s] Observation start time (MET)	243035116.184000	243035116.184			
Observation start date	2005-09-13T21:44:12	2005-09-13T21:45:16			
[s] Observation end time (MET)	243047239.000000	243047239			
Observation end date	2005-09-14T01:07:19	2005-09-14T01:07:18			
Read mode	TIMED	TIMED			

## 2.3 Aspect





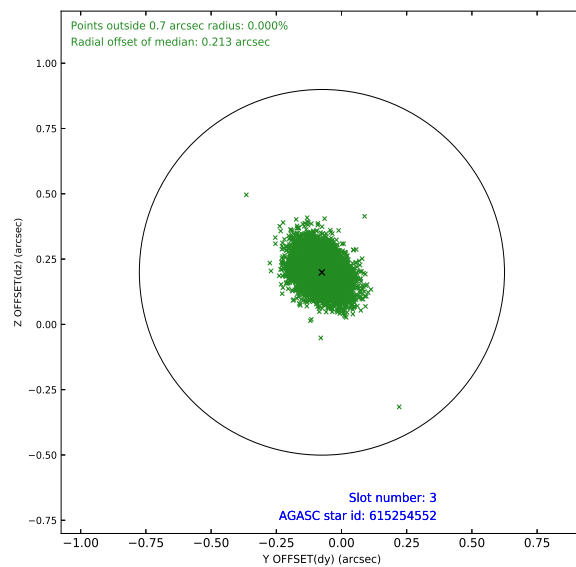
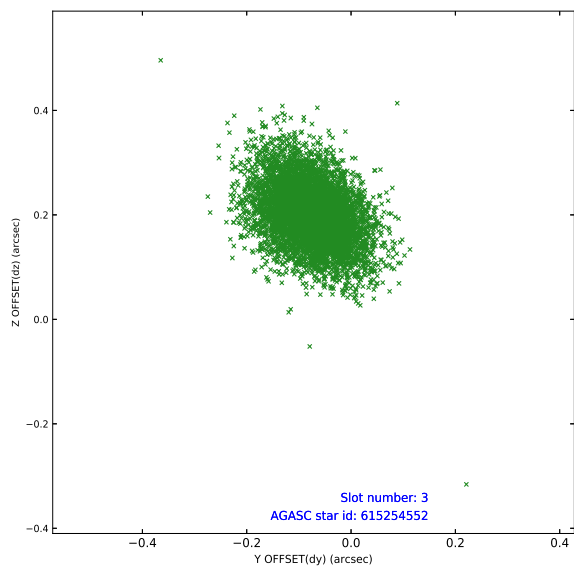
### Slot Statistics

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-2	7.10	2945	1.000	-0.082	-0.058	0.011	0.023	0.000000	0.000000	-759.71	-1732
1	FID		ACIS-S-4	7.21	2945	1.000	0.148	0.054	0.008	0.017	0.000000	0.000000	2153.55	175
2	FID		ACIS-S-5	7.23	2945	1.000	-0.099	0.012	0.009	0.019	0.000000	0.000000	-1812.10	169
3	GUIDE	used	615254552	9.21	5882	1.000	-0.075	0.199	0.083	0.141	36.600600	-3.877551	1259.16	-2038
4	GUIDE	used	615256360	7.79	5888	1.000	-0.147	0.127	0.065	0.110	36.286608	-3.875886	1265.71	-911
5	GUIDE	used	615256944	9.83	5888	1.000	0.129	-0.247	0.132	0.296	35.497386	-4.510719	-1020.43	1921
6	GUIDE	used	615260160	9.72	5885	1.000	0.033	-0.115	0.106	0.177	35.737387	-3.921265	1101.20	1061
7	GUIDE	used	615261280	10.30	5885	1.000	0.069	0.045	0.185	0.311	36.528599	-4.553299	-1173.43	-1779

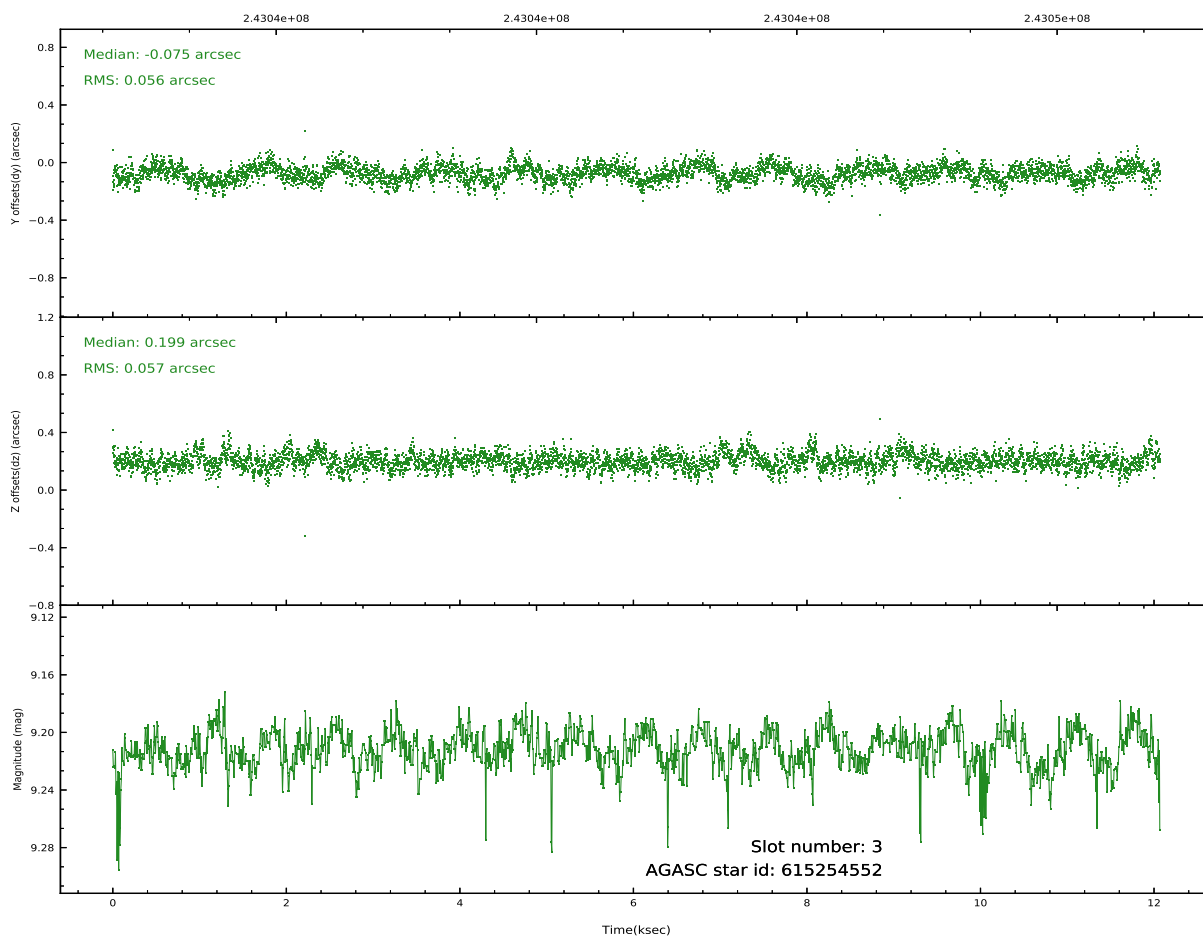
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## 2.4 Star Slots

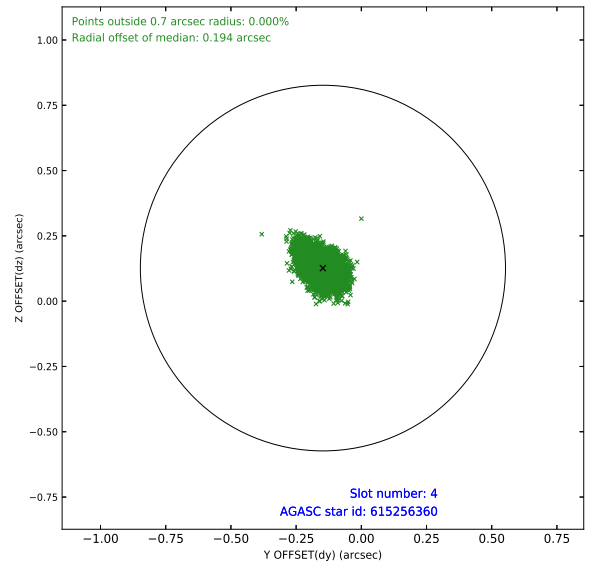
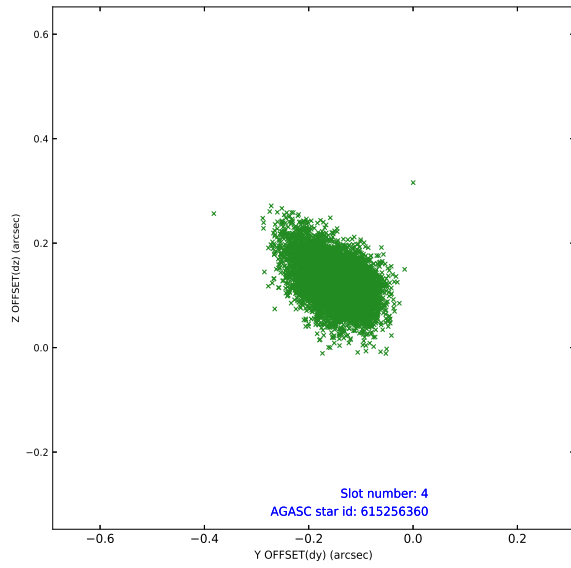
### 2.4.1 Slot 3



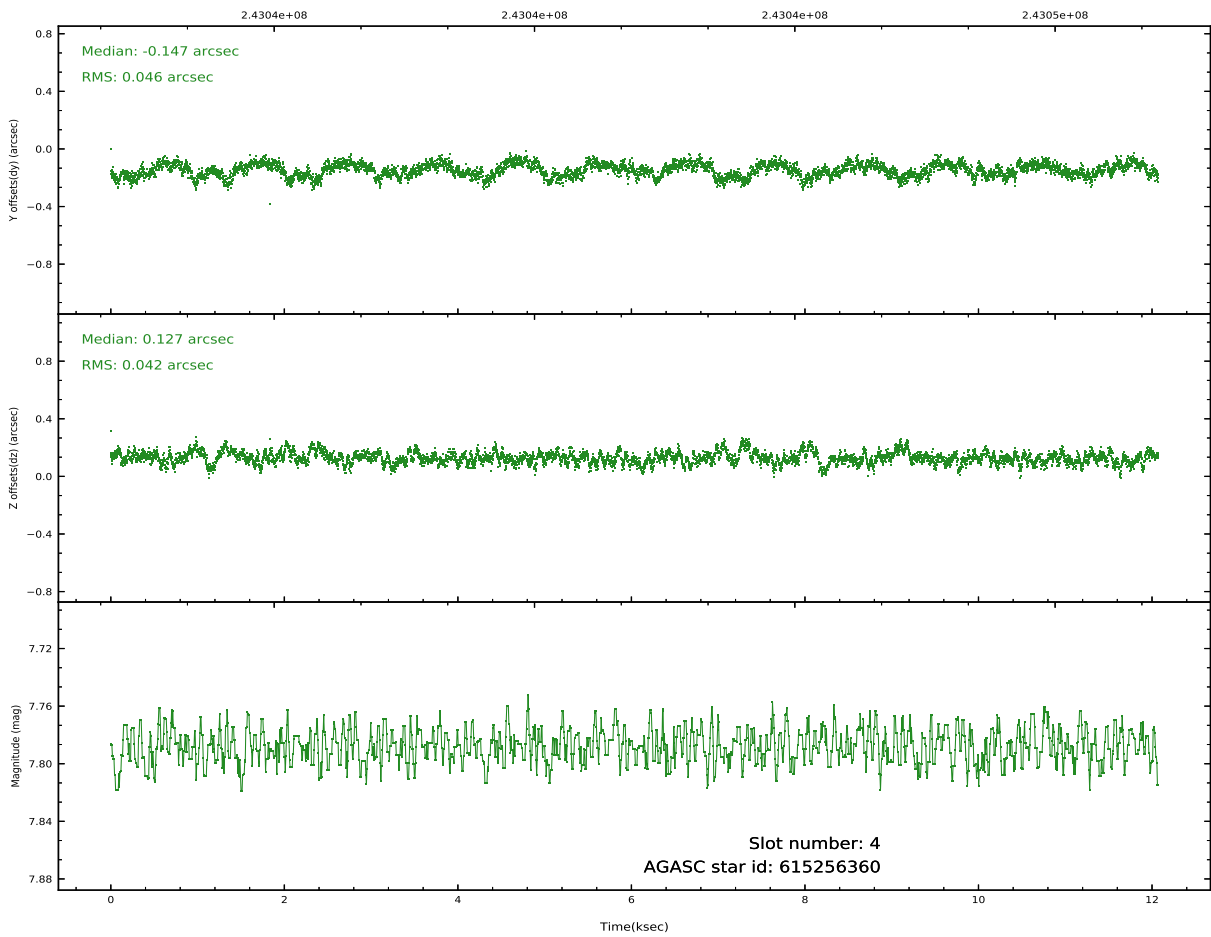
Time (s)



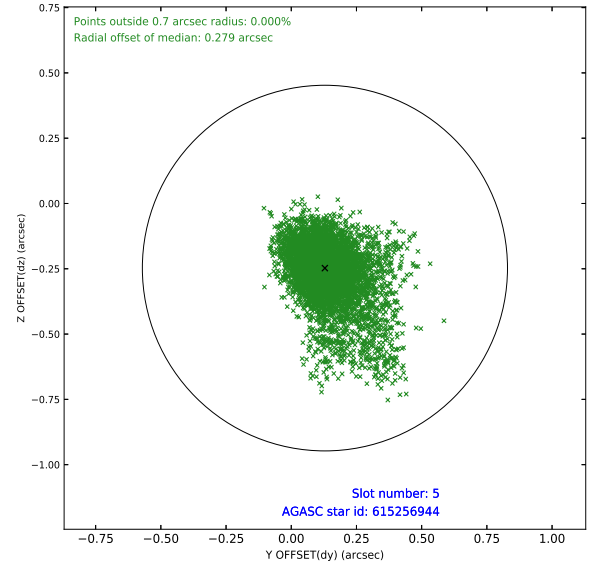
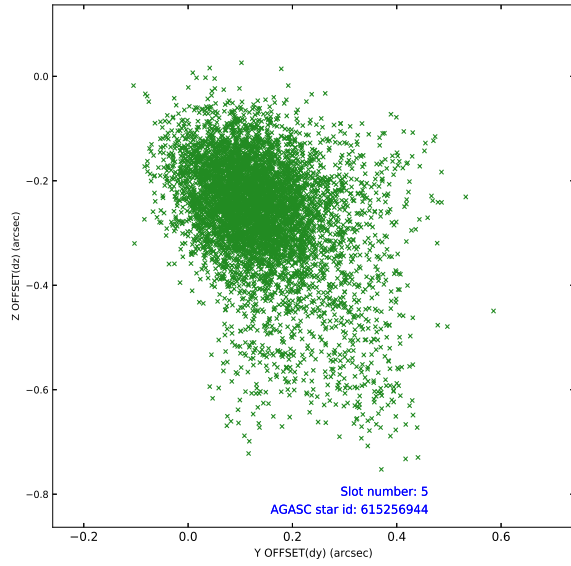
## 2.4.2 Slot 4



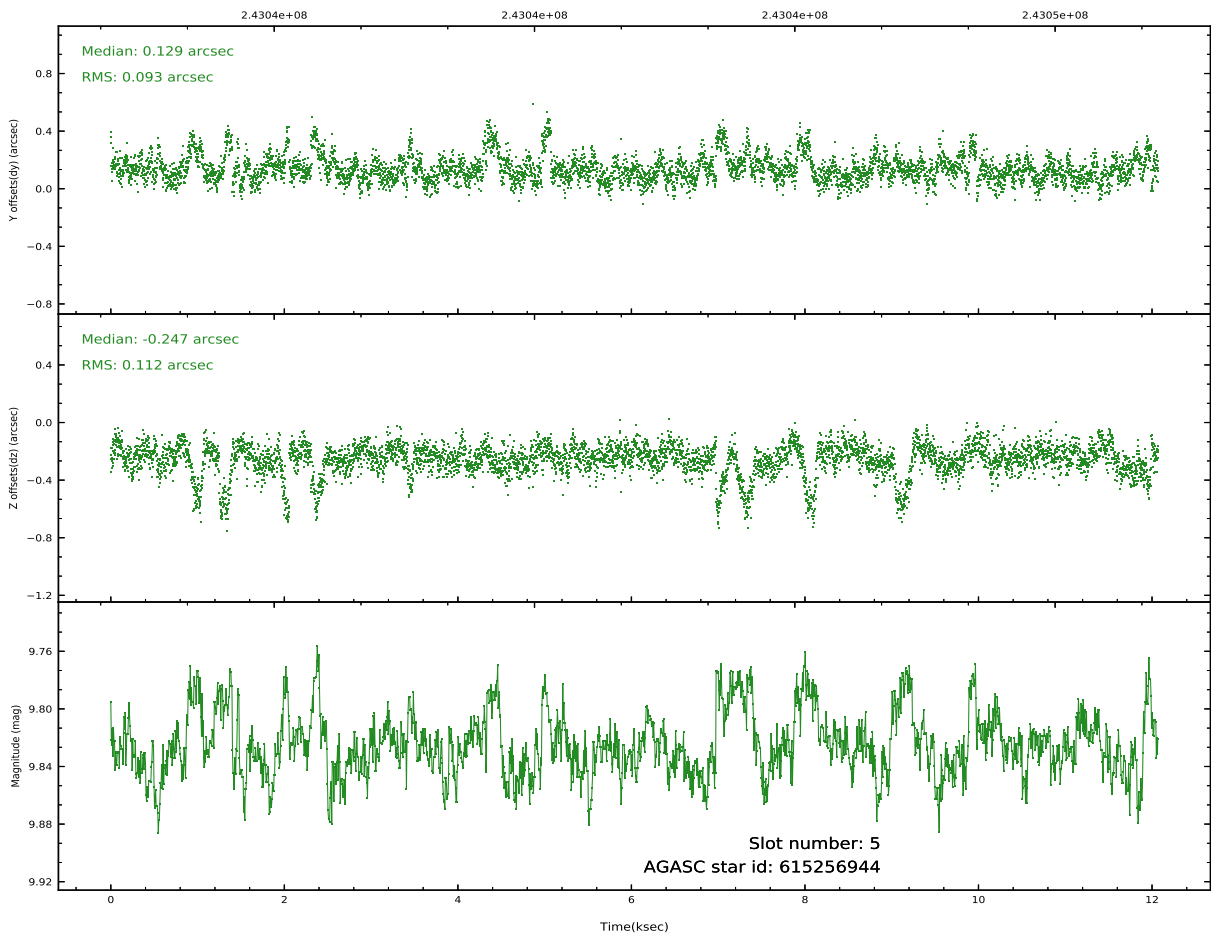
Time (s)



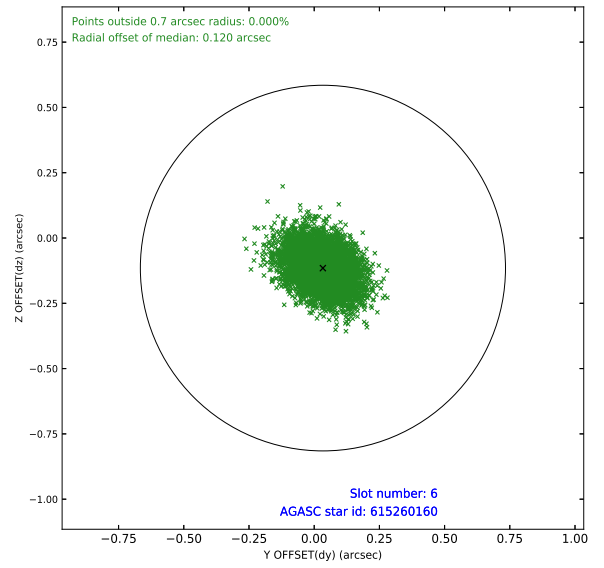
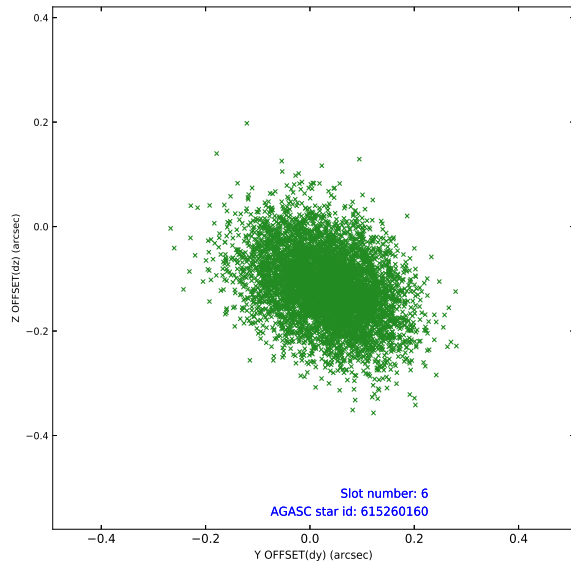
### 2.4.3 Slot 5



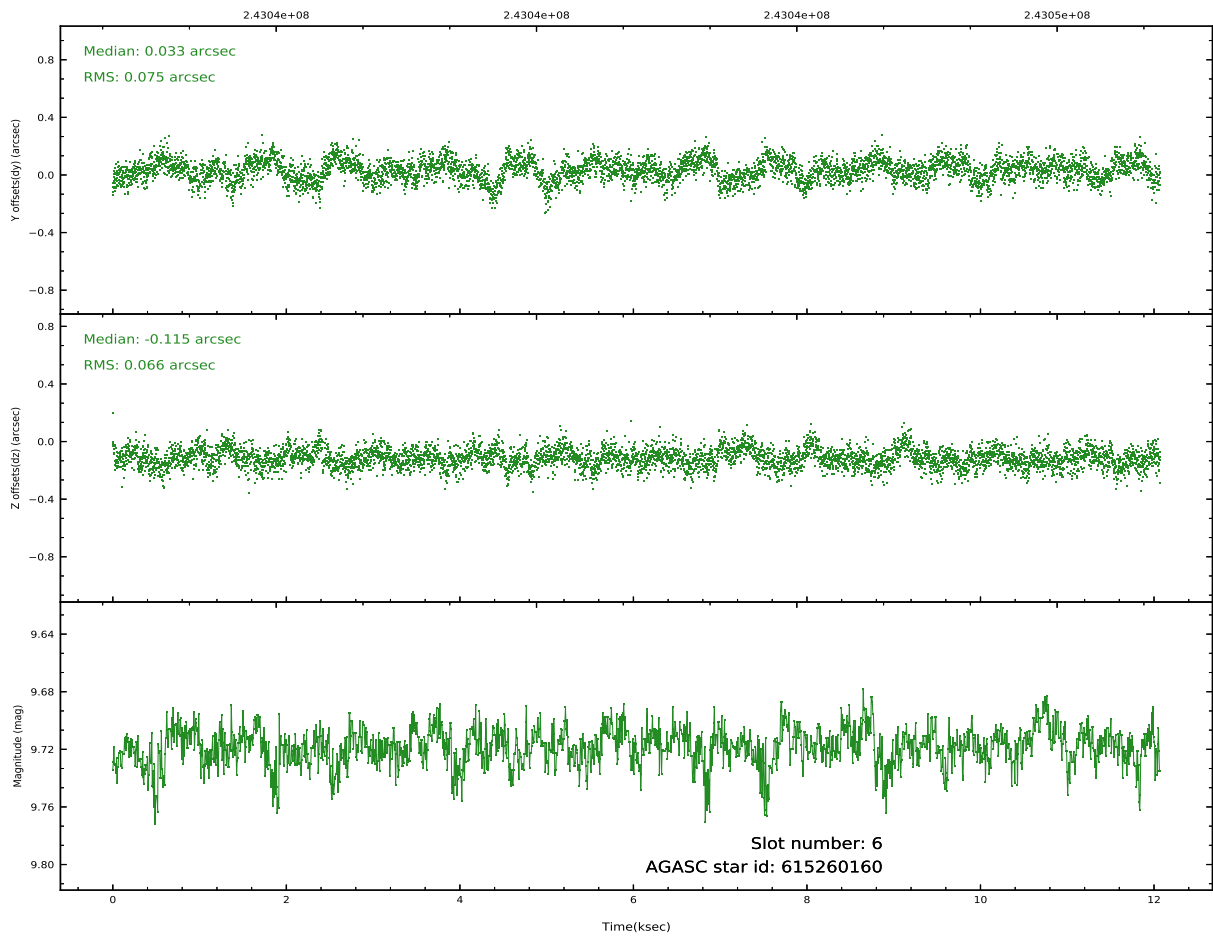
Time (s)



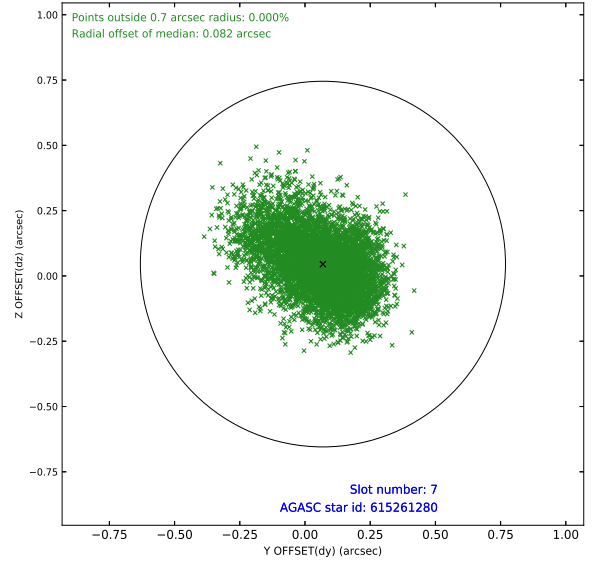
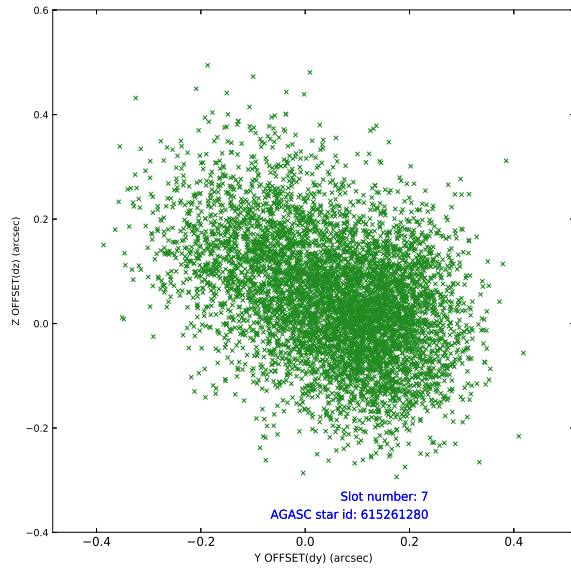
## 2.4.4 Slot 6



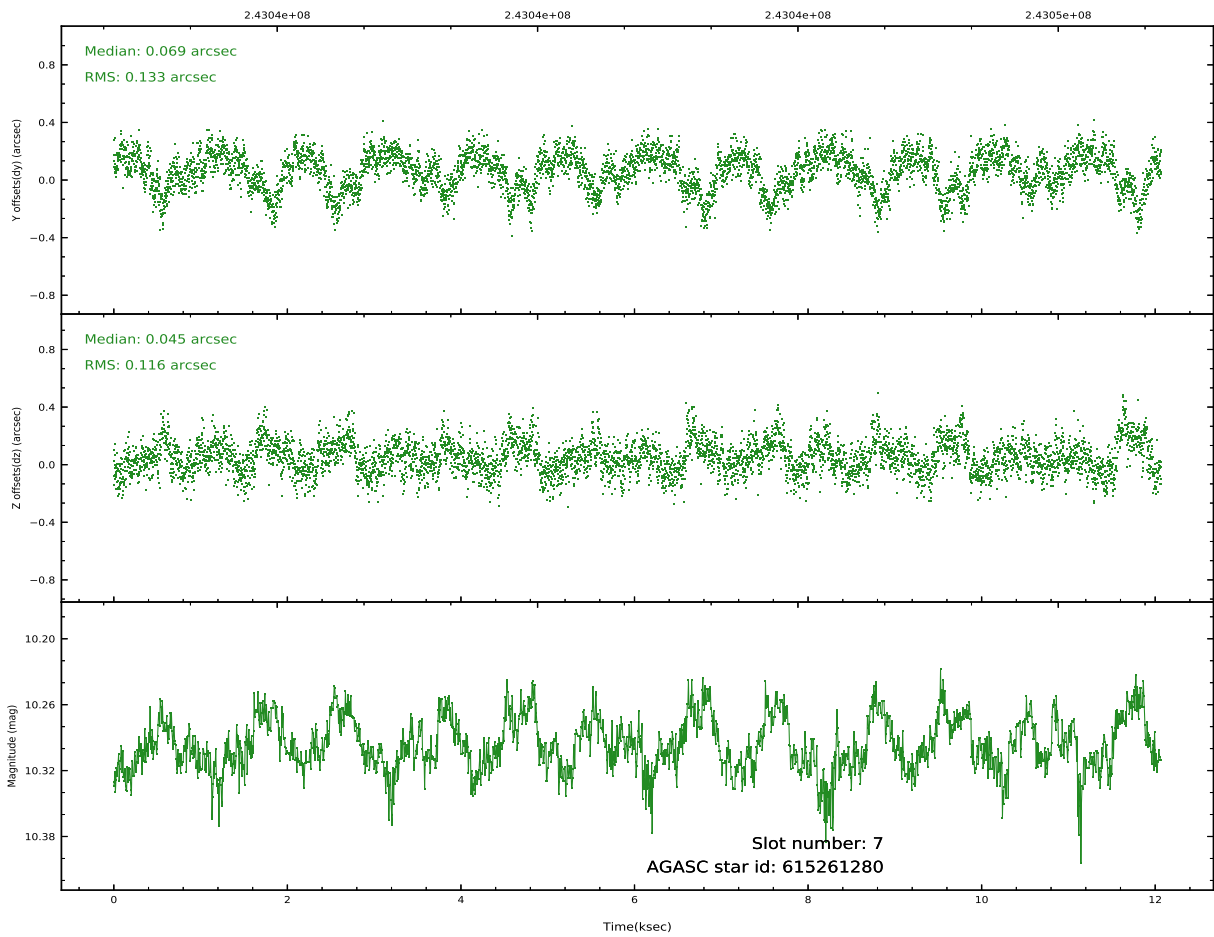
Time (s)



## 2.4.5 Slot 7

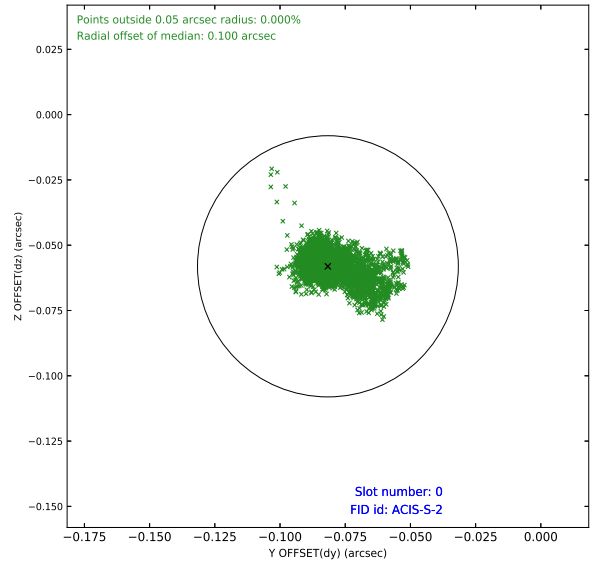
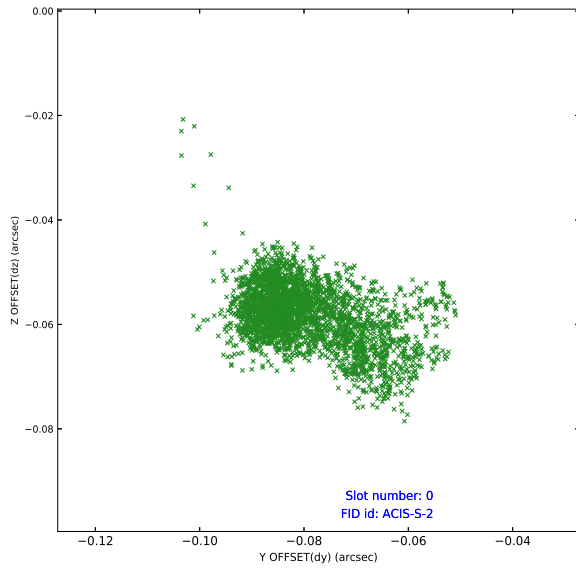


Time (s)

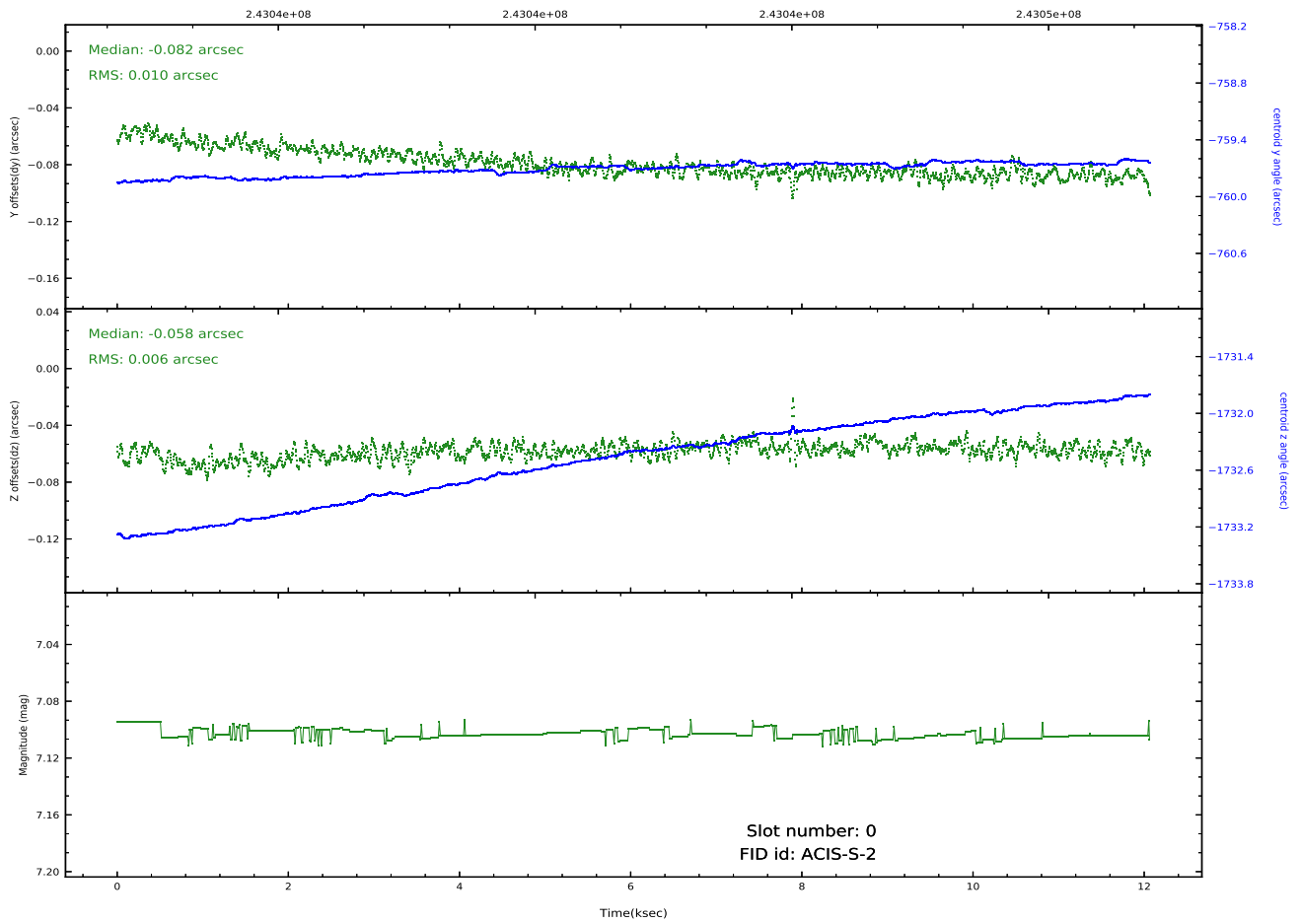


## 2.5 FID Slots

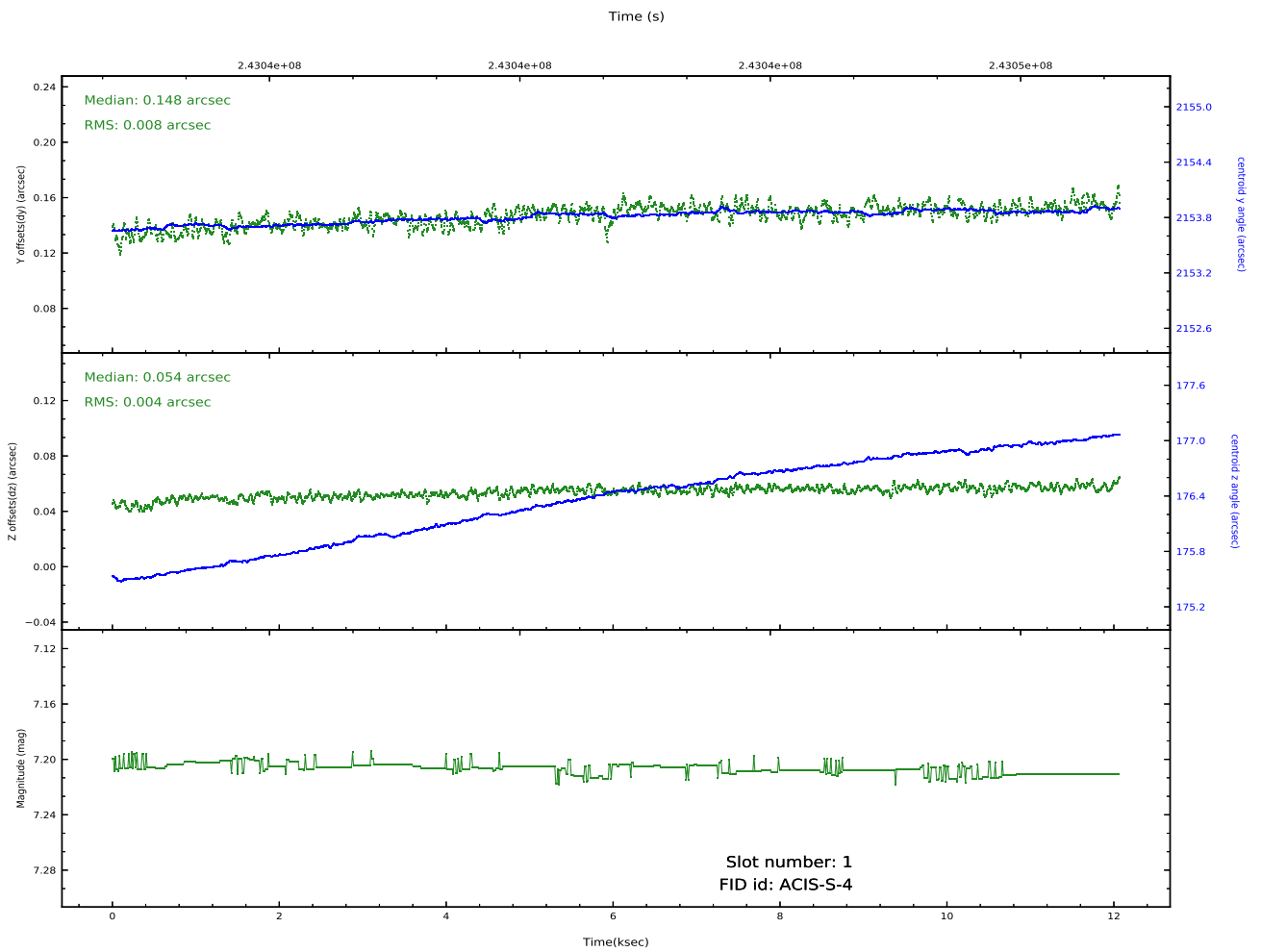
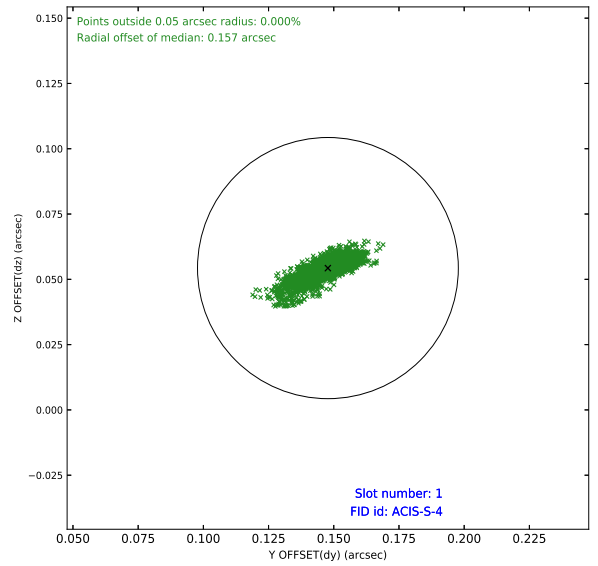
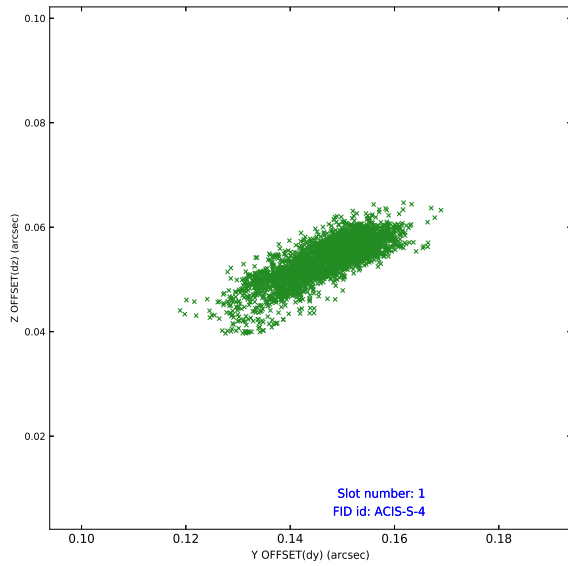
### 2.5.1 Slot 0



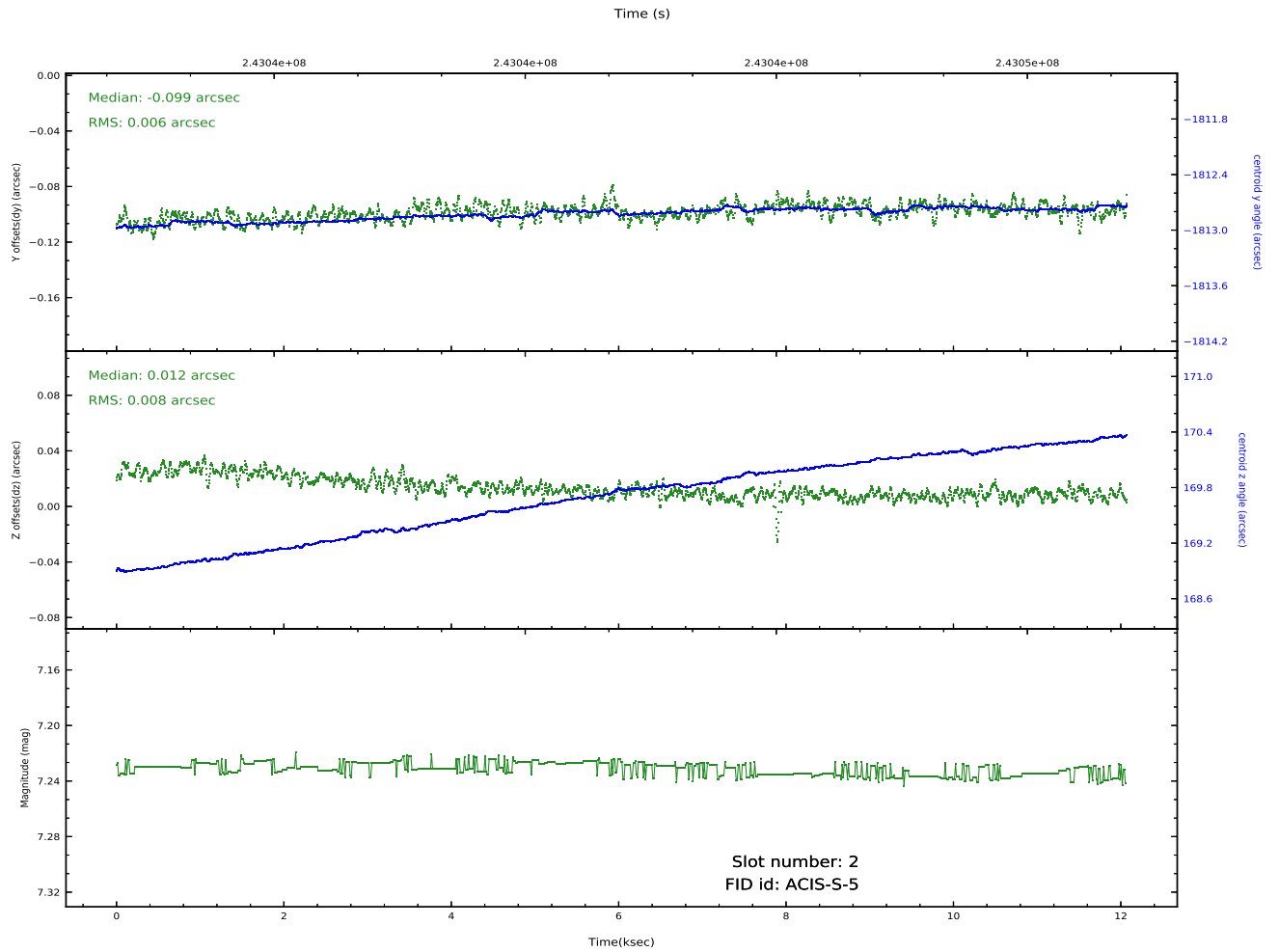
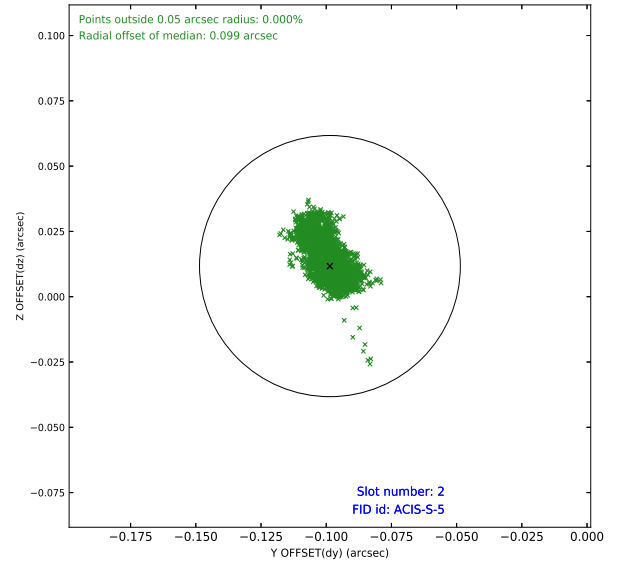
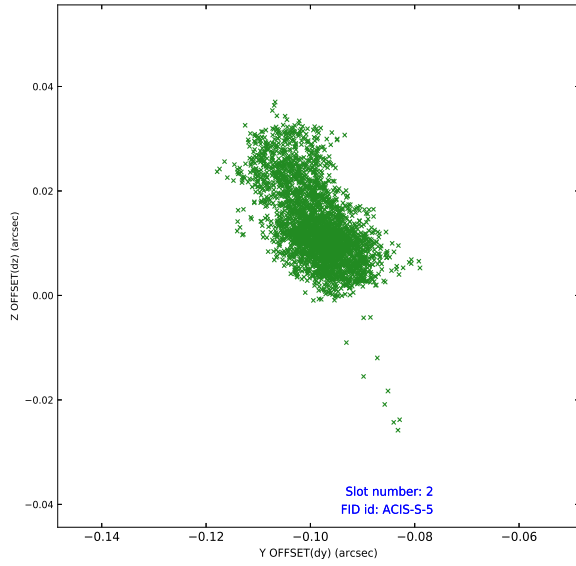
Time (s)



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.23259

## A.2 Comments

Charge time for this observation remains at previous value of 12.23259 ksec, although with the current processing the charge time would have been 12.006 ksec.

===

This observation was interrupted by safing of the science instruments due to high solar radiation environment. The observation was interrupted at 2005:257:01:06.

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Joint proposal with XMM.