

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5772 - L2 Version 4  
Chandra X-Ray Center

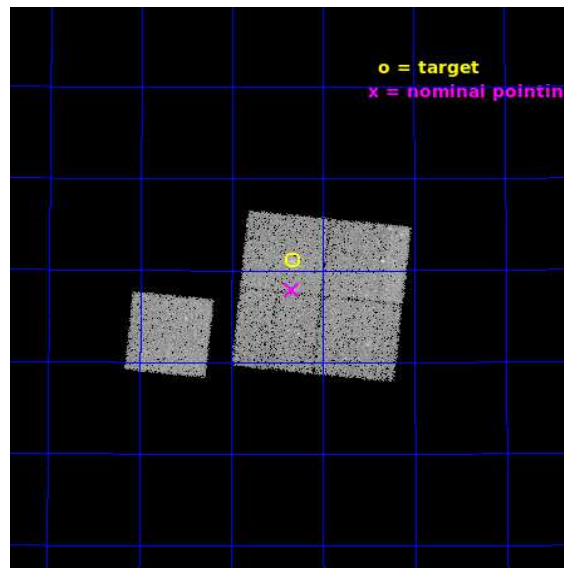
L2 Processing Date : Oct 9 2020

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# 1 Front

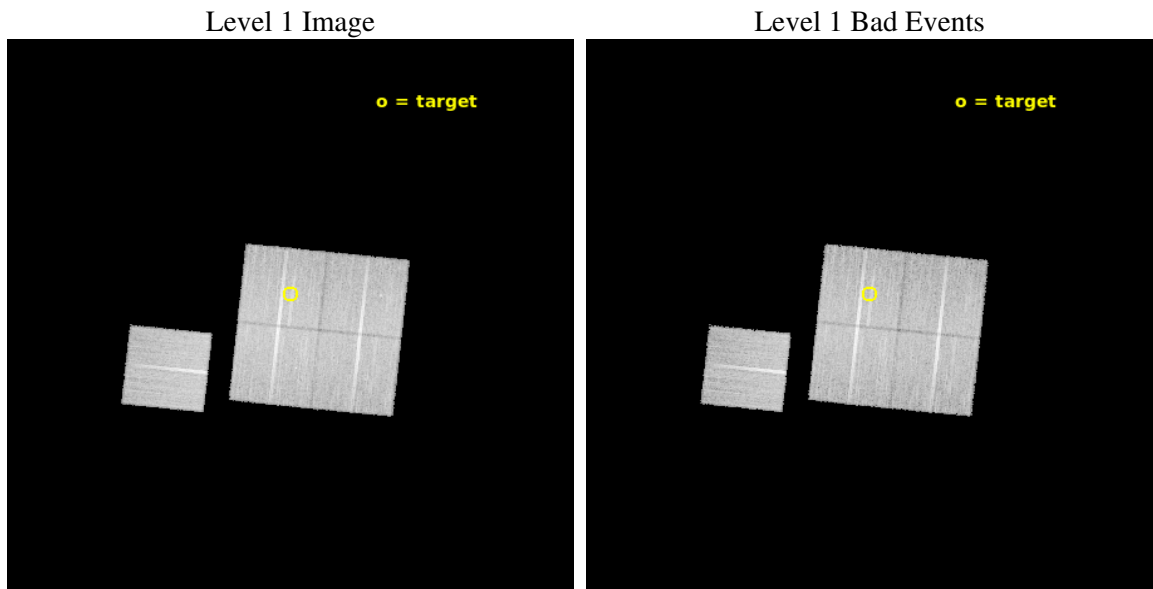
seq_num	800485	Sequence number
obs_id	5772	Observation id
title	Chandra observations of high-redshift clusters of galaxies from the 400 Square Degrees ROSAT PSPC survey	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	CIG J1334+5031	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	203.584583	Observer's specified target RA [deg]
dec_targ	50.518056	Observer's specified target Dec [deg]
ra_nom	203.5850797927	Nominal RA [deg]
dec_nom	50.465374895353	Nominal Dec [deg]
roll_nom	276.0264984873	Nominal Roll [deg]
revision	4	Processing version of data
ontime	19750.059001744	Sum of GTIs [s]
livetime	19492.009941104	Livetime [s]
ontime0	19753.19996199	Sum of GTIs [s]
ontime1	19746.917981684	Sum of GTIs [s]
ontime2	19746.9180215	Sum of GTIs [s]
ontime3	19750.059001744	Sum of GTIs [s]
ontime6	19753.19996199	Sum of GTIs [s]
l2events	67822	Number of level 2 events



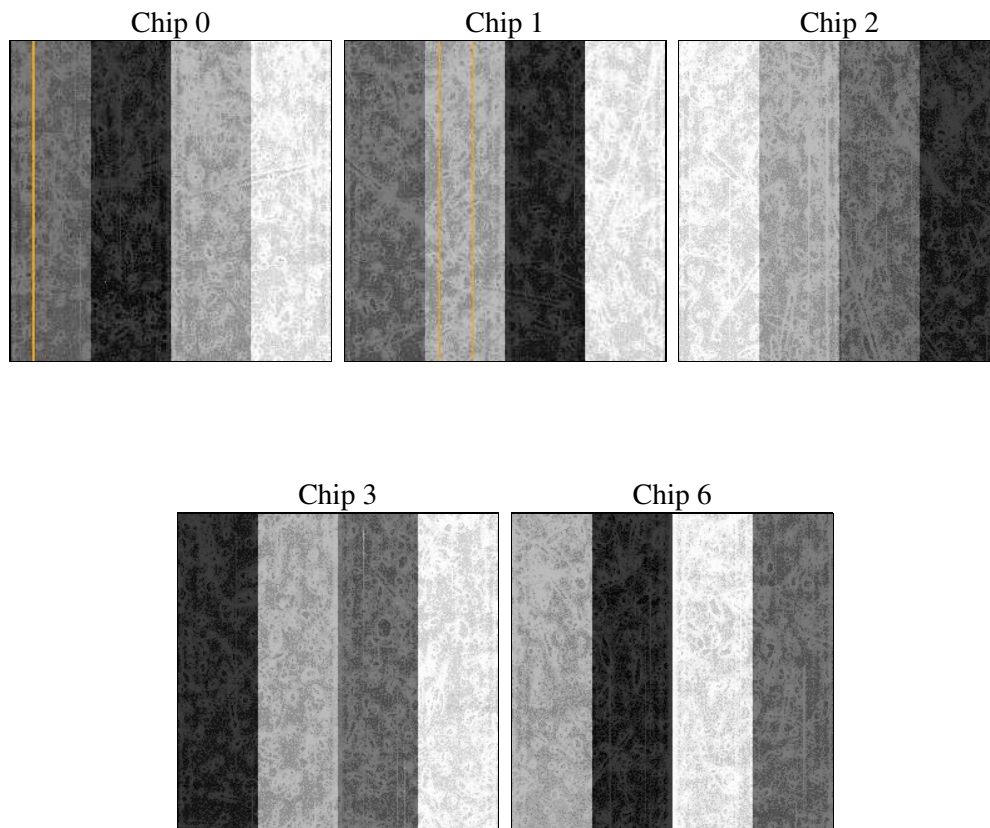
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	19592.056000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	19750.059001744	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime0	19753.19996199	Sum of GTIs [s]
date	2020-10-09T18:03:52	Date and time of file creation	ontime1	19746.917981684	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	19746.9180215	Sum of GTIs [s]
			ontime3	19750.059001744	Sum of GTIs [s]
			ontime6	19753.19996199	Sum of GTIs [s]
			l1events	617033	Number of level 1 events

### 2.1.4 Events

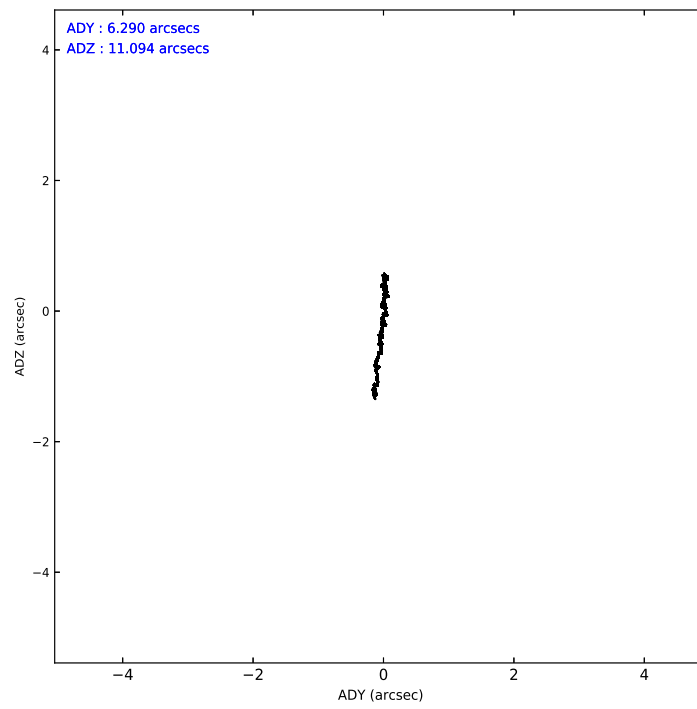
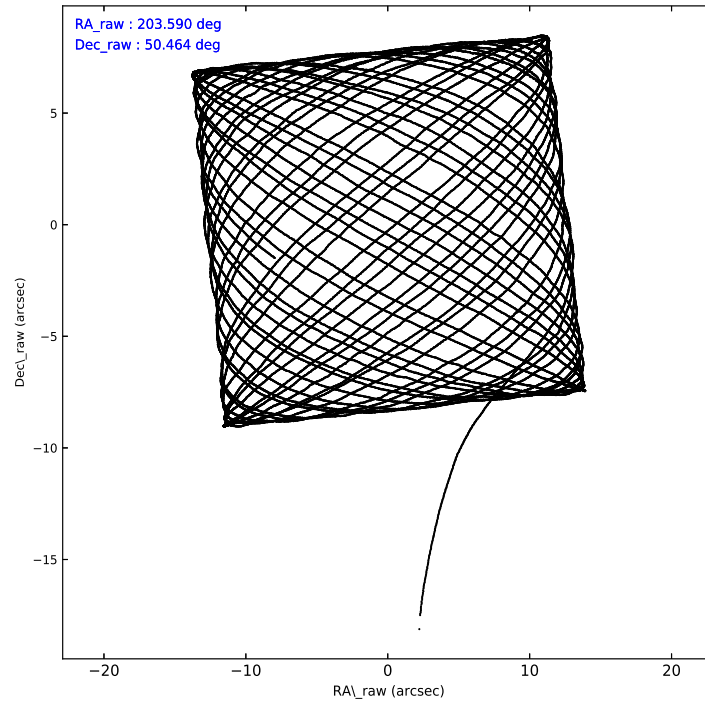
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	119307	115543	132707	124666	124810
rejected events	104254	98000	117164	109356	108160
rejected %	87%	84%	88%	87%	86%

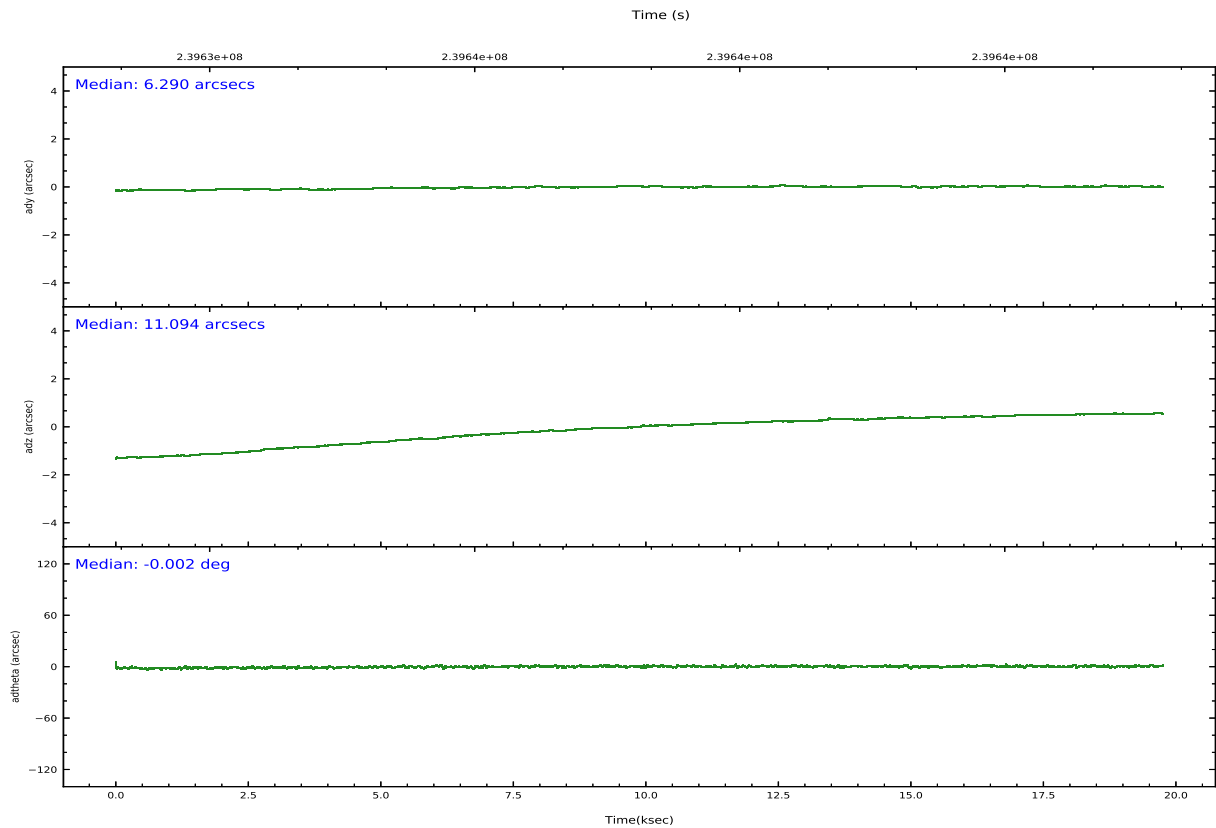
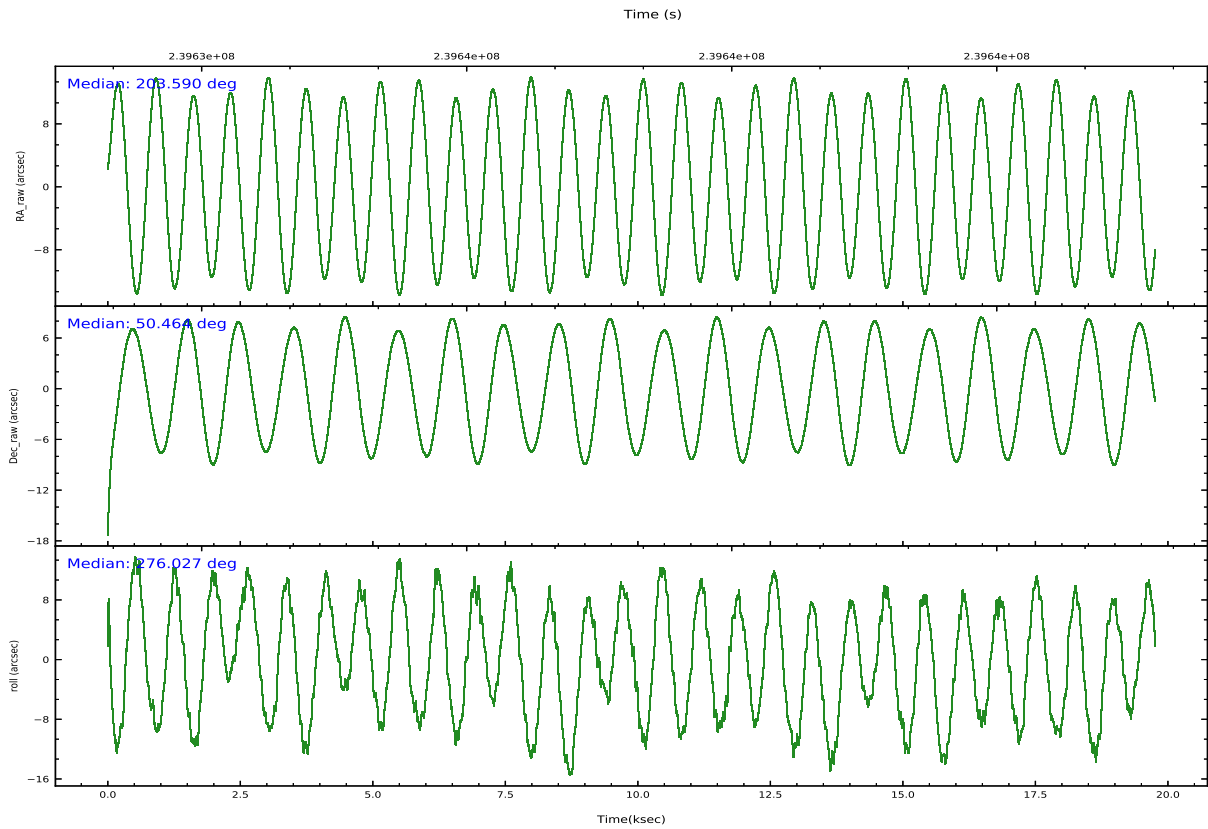
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	6579	8071	7124	7327	7821
	5%	6%	5%	5%	6%
grade 1 events	79	75	89	92	71
	0%	0%	0%	0%	0%
grade 2 events	3223	3476	3231	2925	3220
	2%	3%	2%	2%	2%
grade 3 events	1536	1633	1395	1433	1566
	1%	1%	1%	1%	1%
grade 4 events	1400	1631	1467	1419	1462
	1%	1%	1%	1%	1%
grade 5 events	4232	4697	3936	4960	4866
	3%	4%	2%	3%	3%
grade 6 events	2492	2886	2456	2378	2746
	2%	2%	1%	1%	2%
grade 7 events	99766	93074	113009	104132	103058
	83%	80%	85%	83%	82%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	203.564971	203.5850797927	Subarray requested	NONE	NONE
[deg] Pointing Dec	50.485956	50.465374895353	Alternating exposures requested	N	N
[deg] Pointing Roll	275.840979	276.0264984873	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-225.840463	-225.8458576473255			
[mm] SIM translation stage offset	-7.752	-7.746595355604228			
[s] Observation start time (MET)	239628396.184000	239627282.0247			
Observation start date	2005-08-05T11:25:32	2005-08-05T11:08:02			
[s] Observation end time (MET)	239647988.184000	239648217.65066			
Observation end date	2005-08-05T16:52:04	2005-08-05T16:56:57			
Read mode	TIMED	TIMED			

## 2.3 Aspect





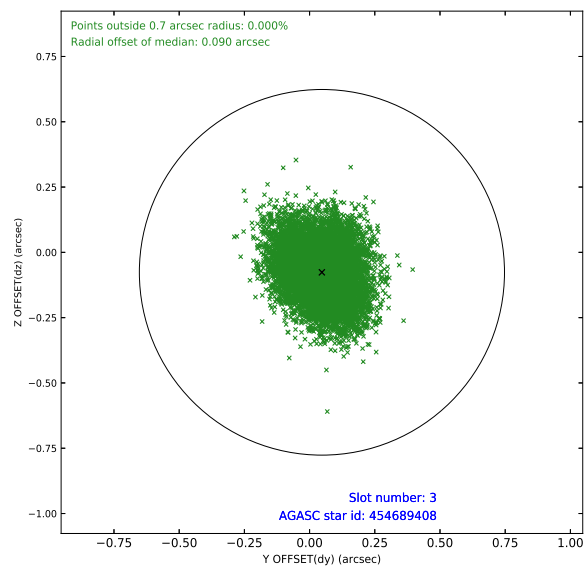
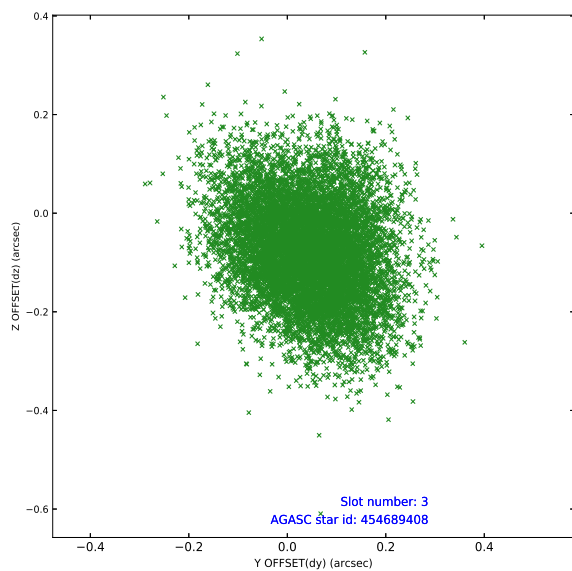
### Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.18	4820	1.000	-0.167	-0.084	0.015	0.026	0.000000	0.000000	-761.47	-998
1	FID		ACIS-I-4	7.14	4819	1.000	-0.012	0.138	0.019	0.027	0.000000	0.000000	2152.64	907
2	FID		ACIS-I-6	7.25	4820	1.000	0.081	0.009	0.027	0.044	0.000000	0.000000	399.54	1548
3	GUIDE	used	454689408	9.86	9632	1.000	0.047	-0.076	0.140	0.231	204.048480	51.127713	-2190.54	1322
4	GUIDE	used	454692248	9.31	9631	1.000	-0.029	-0.062	0.098	0.158	202.744066	50.628741	-712.20	-1811
5	GUIDE	used	454692736	9.73	9626	1.000	0.162	0.023	0.108	0.174	203.552835	50.198777	1025.57	-132
6	GUIDE	used	454694864	7.97	9639	1.000	-0.155	0.132	0.066	0.106	203.458203	50.950289	-1687.34	-70
7	GUIDE	used	454695192	9.48	9629	1.000	-0.032	-0.012	0.103	0.170	204.457251	51.057745	-1854.63	2218

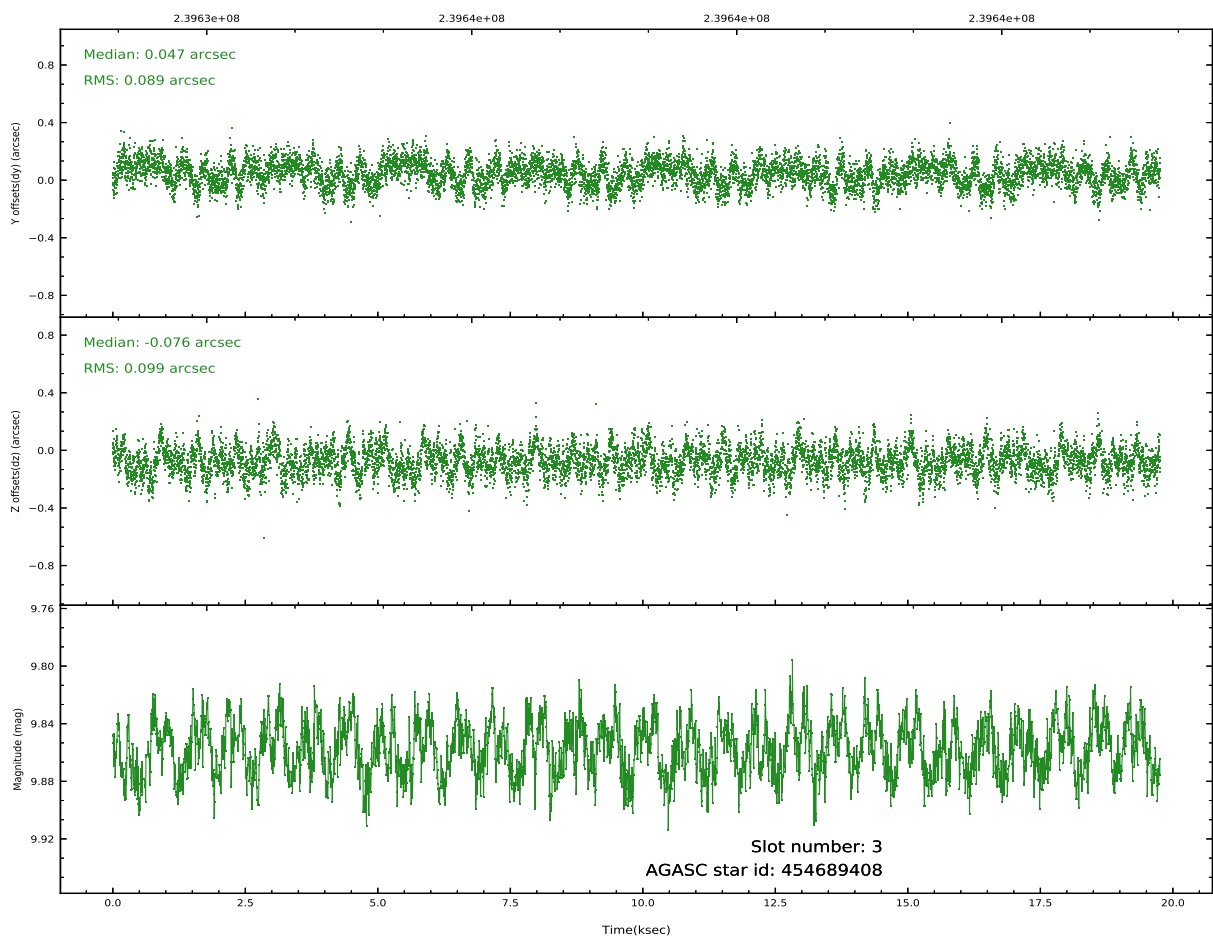
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## 2.4 Star Slots

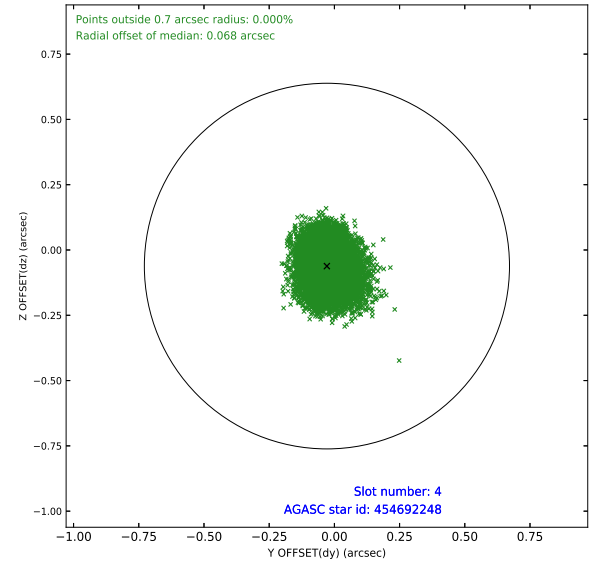
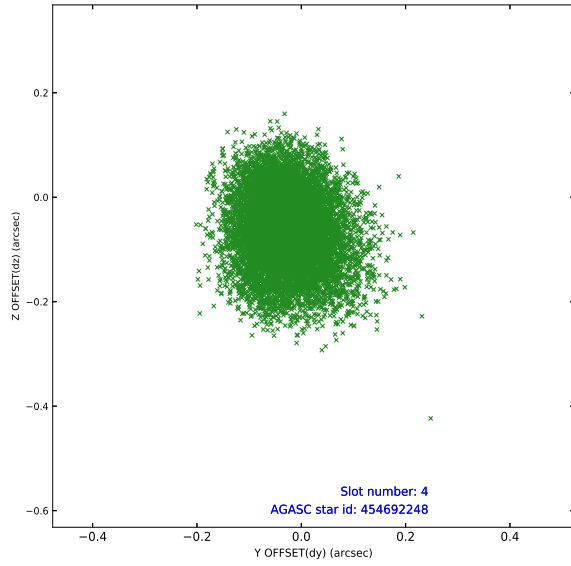
### 2.4.1 Slot 3



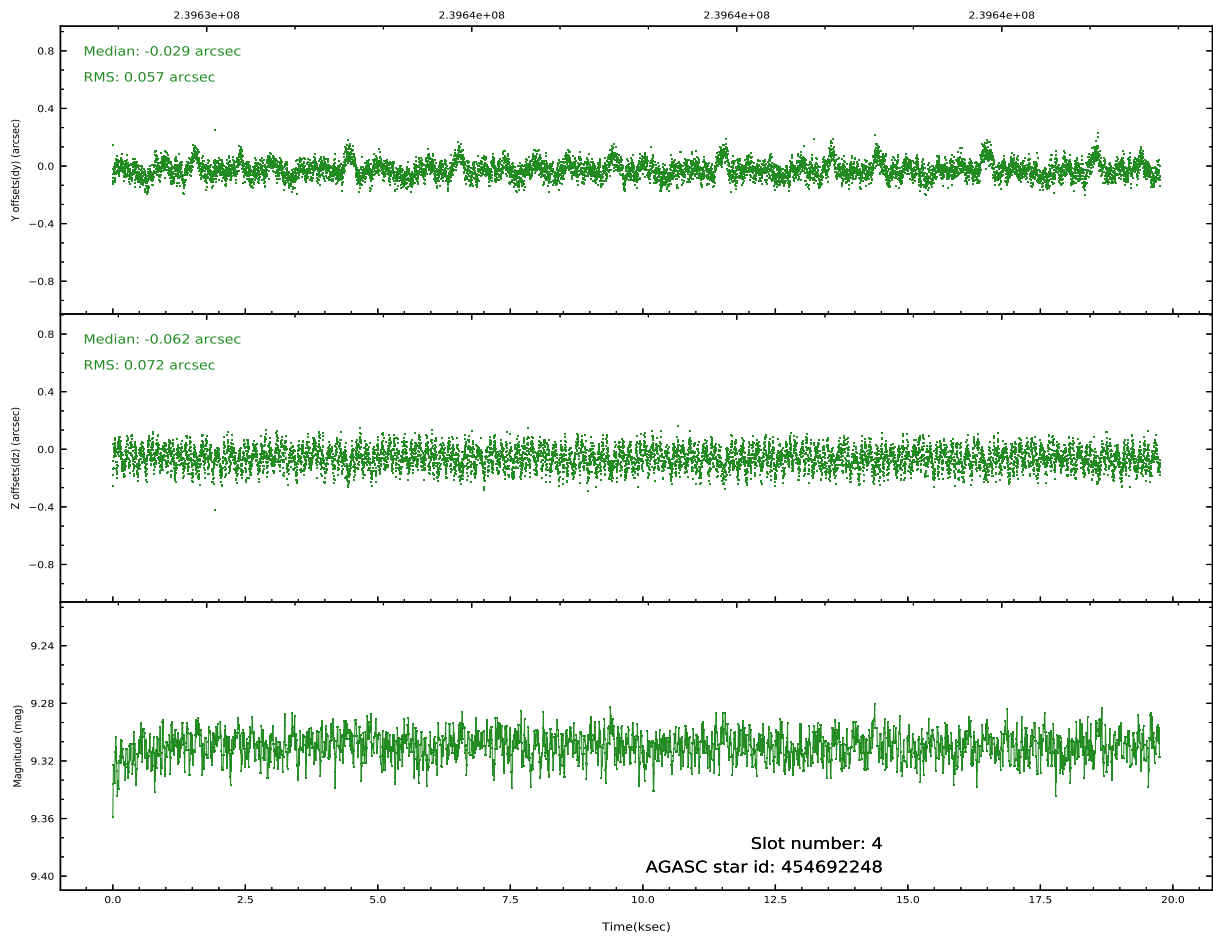
Time (s)



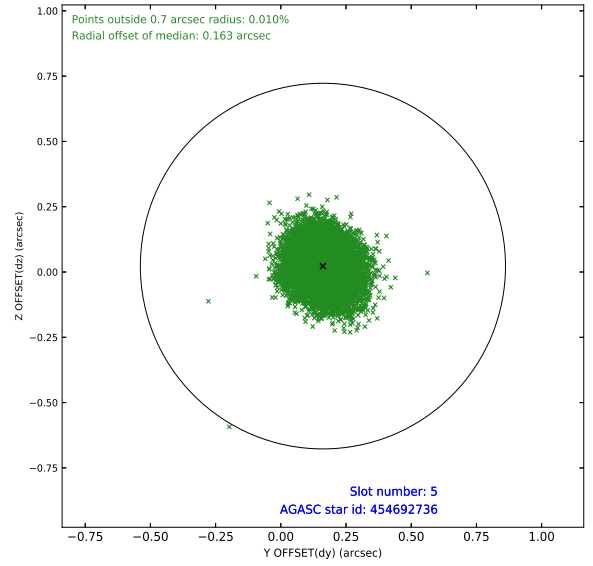
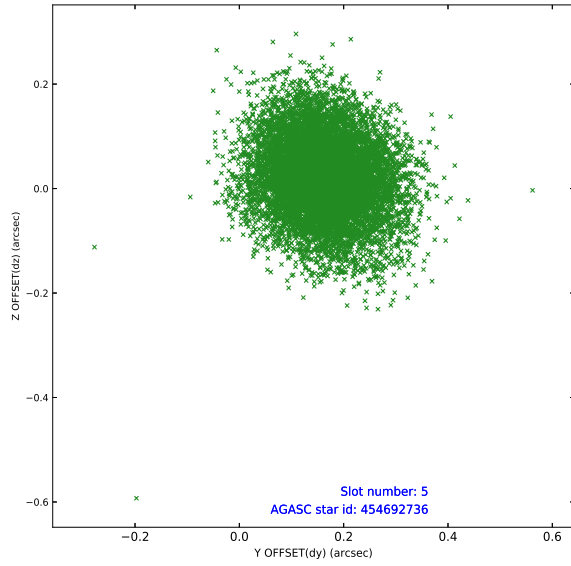
## 2.4.2 Slot 4



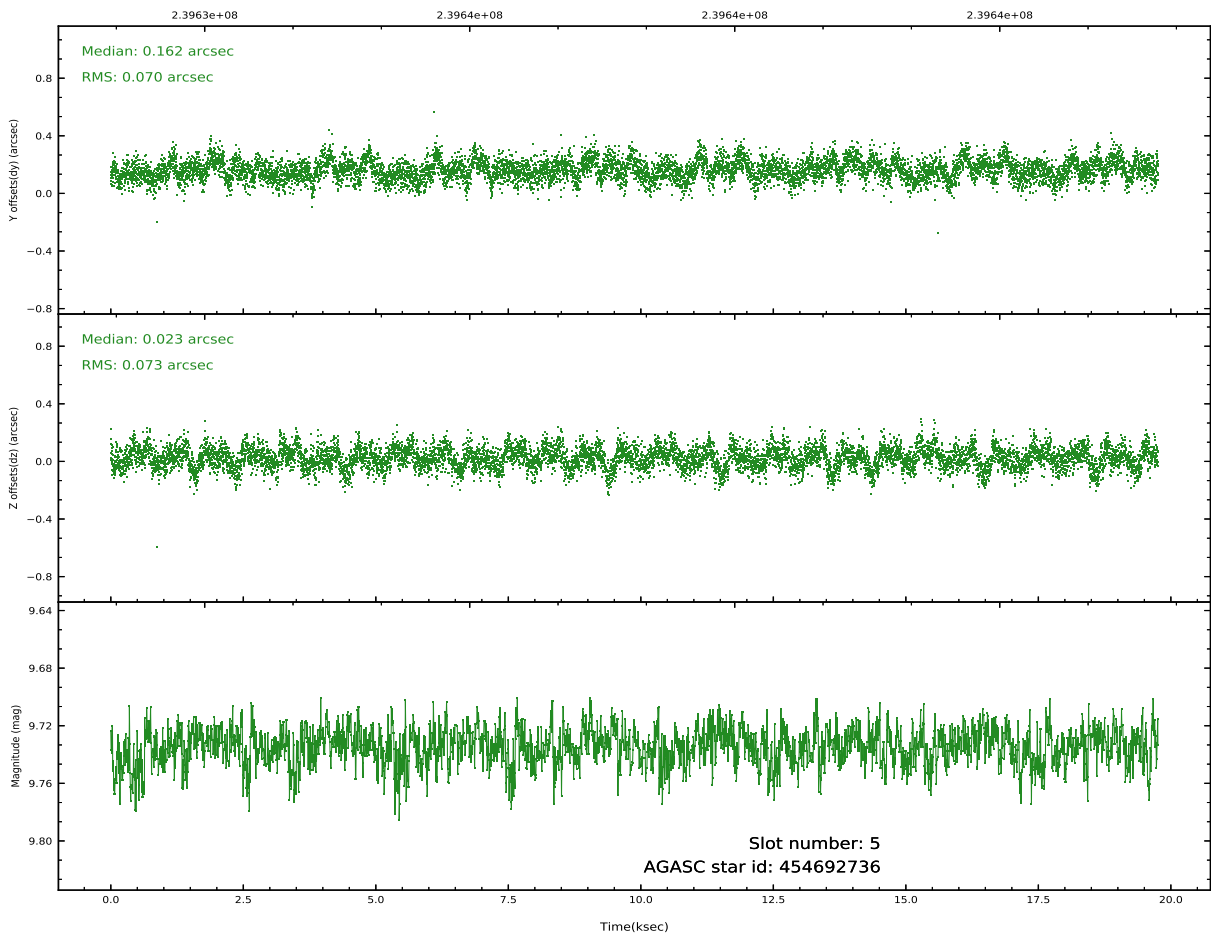
Time (s)



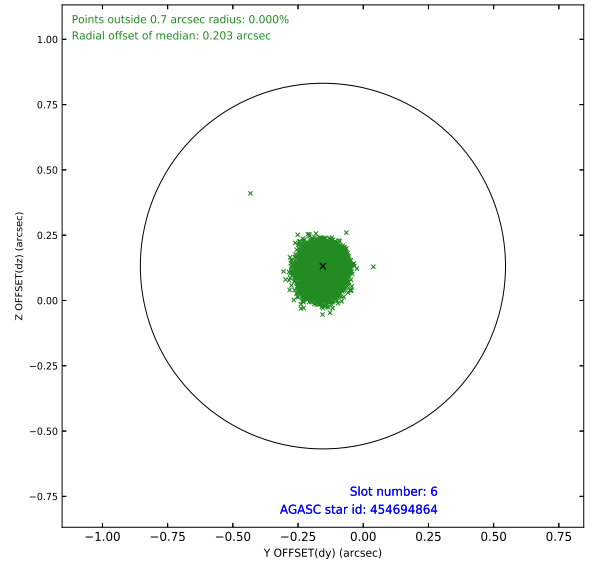
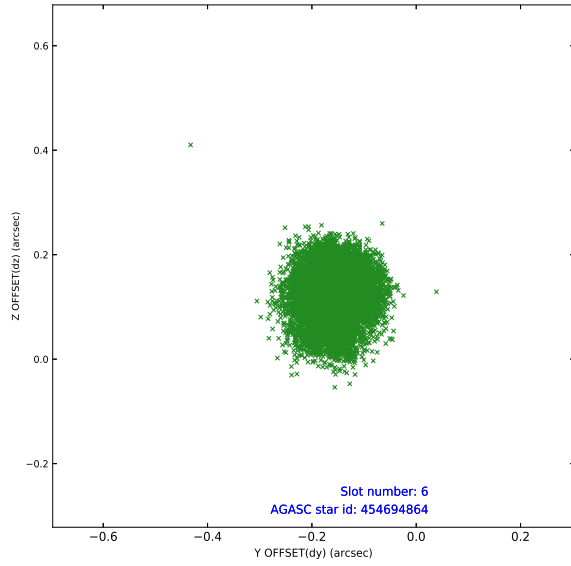
### 2.4.3 Slot 5



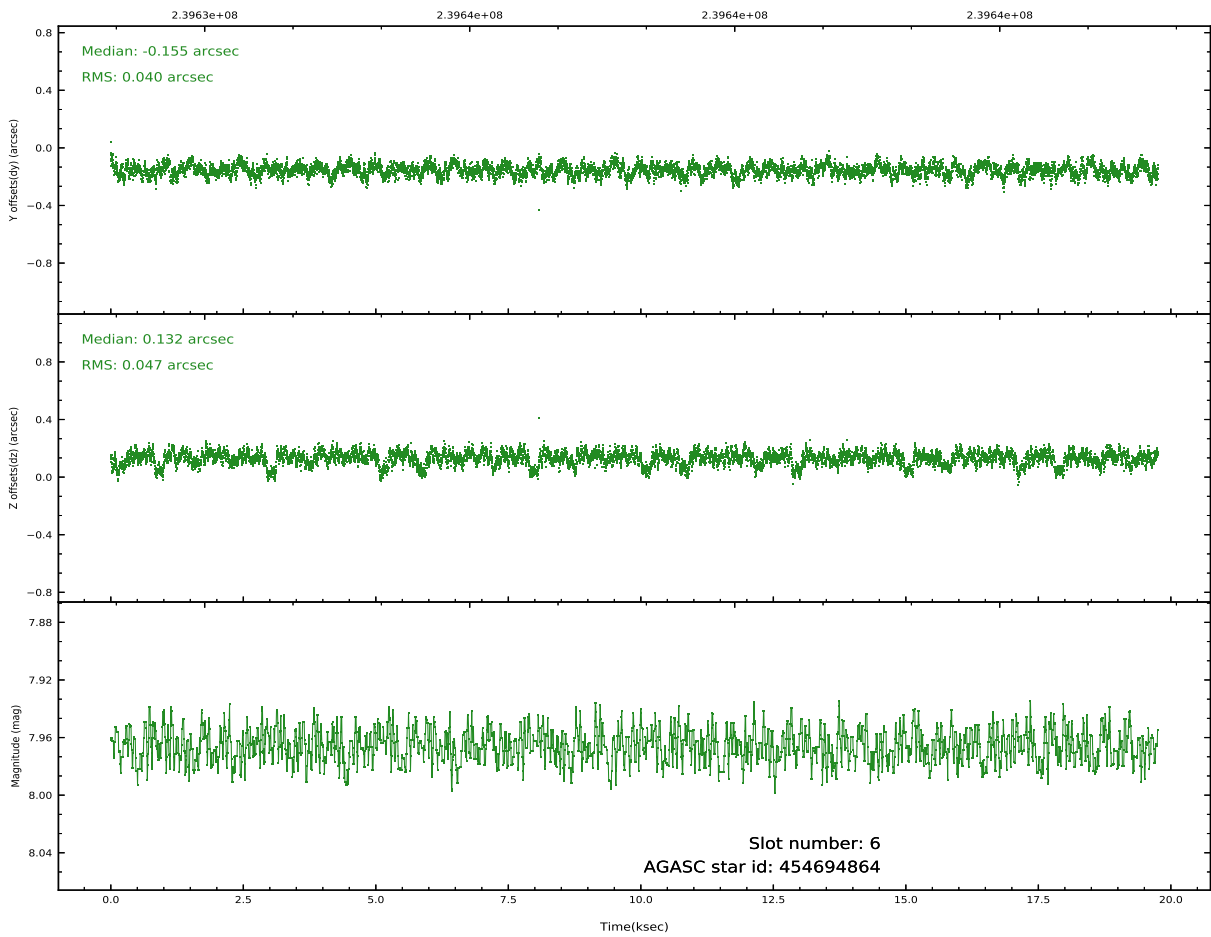
Time (s)



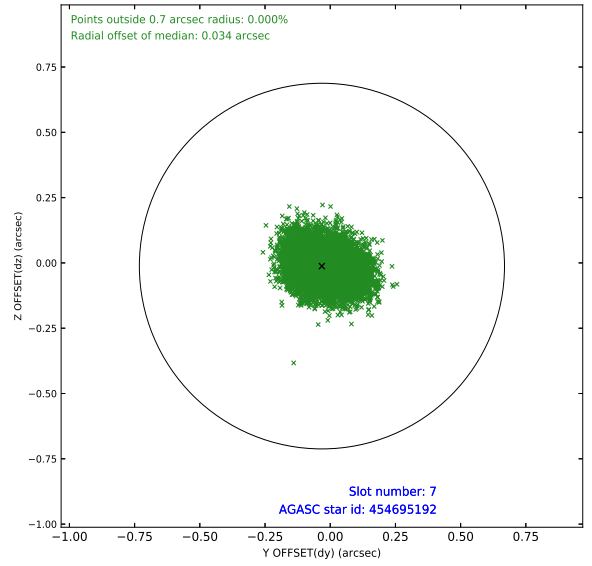
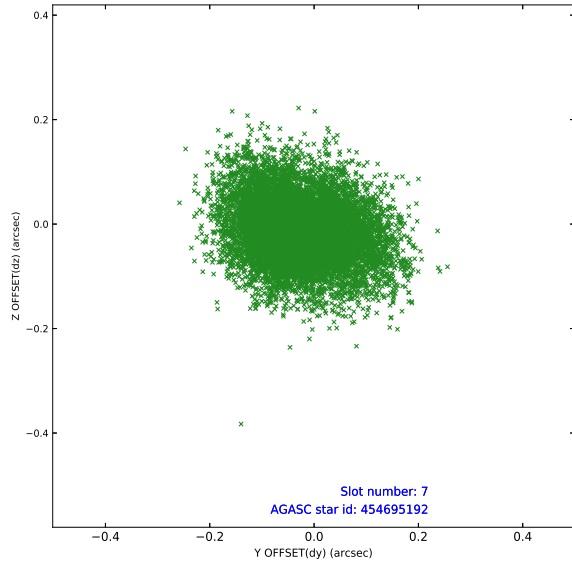
## 2.4.4 Slot 6



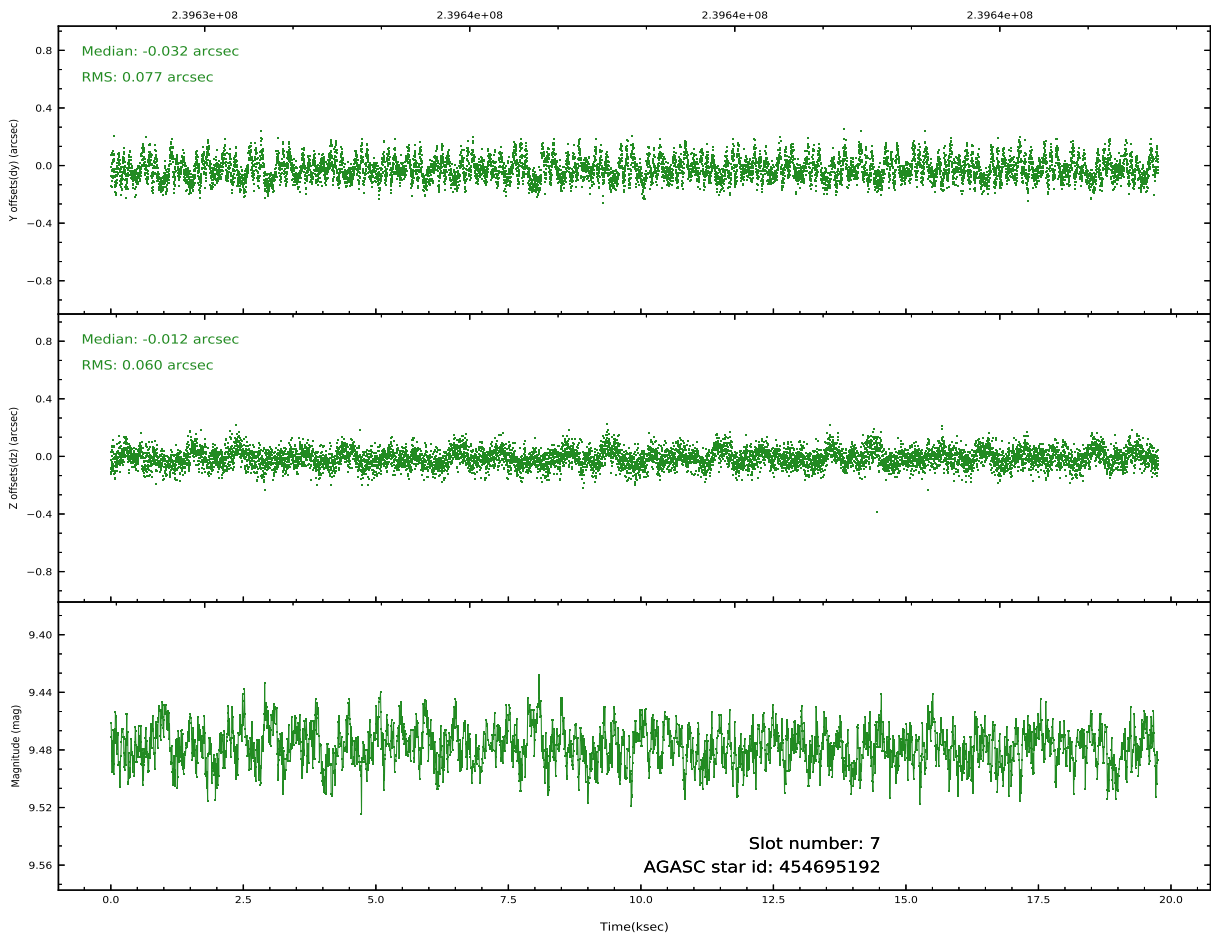
Time (s)



## 2.4.5 Slot 7

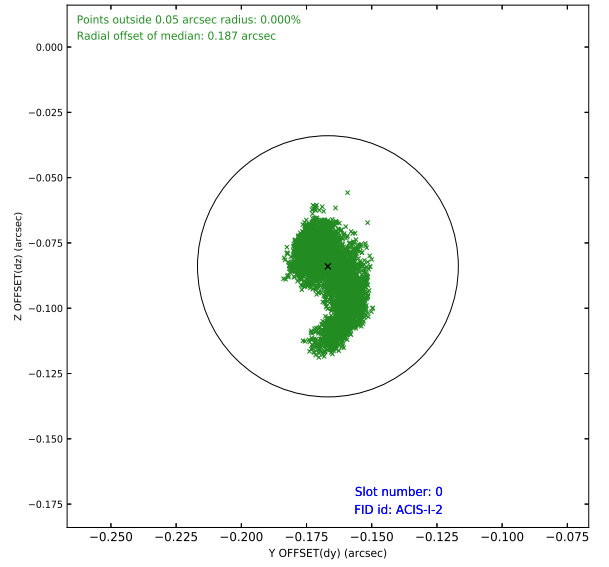
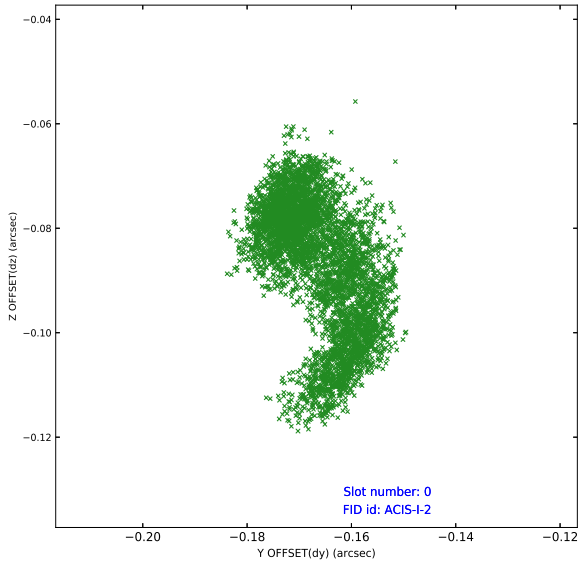


Time (s)

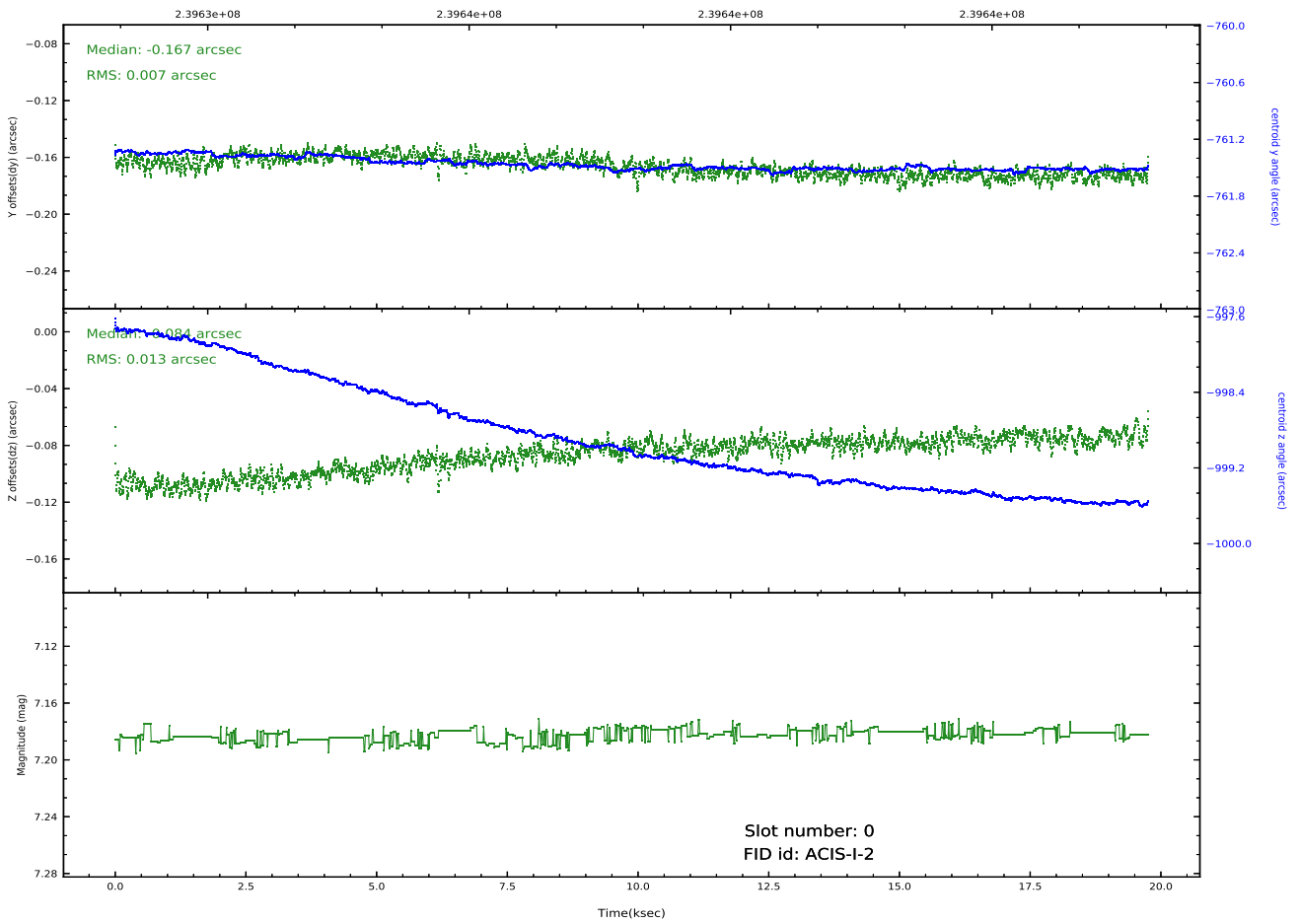


## 2.5 FID Slots

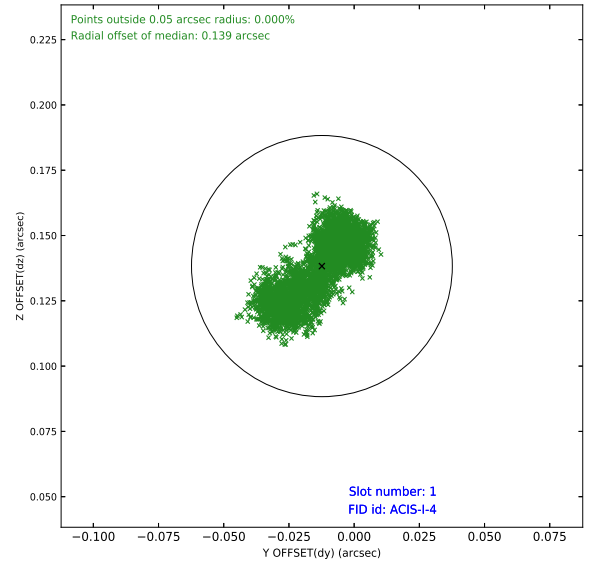
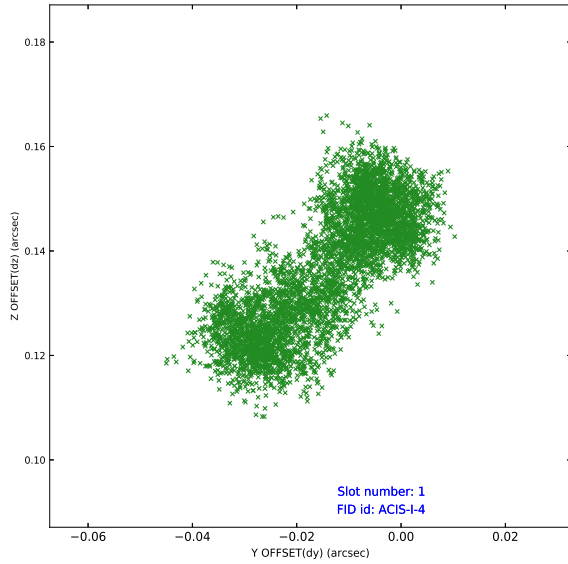
### 2.5.1 Slot 0



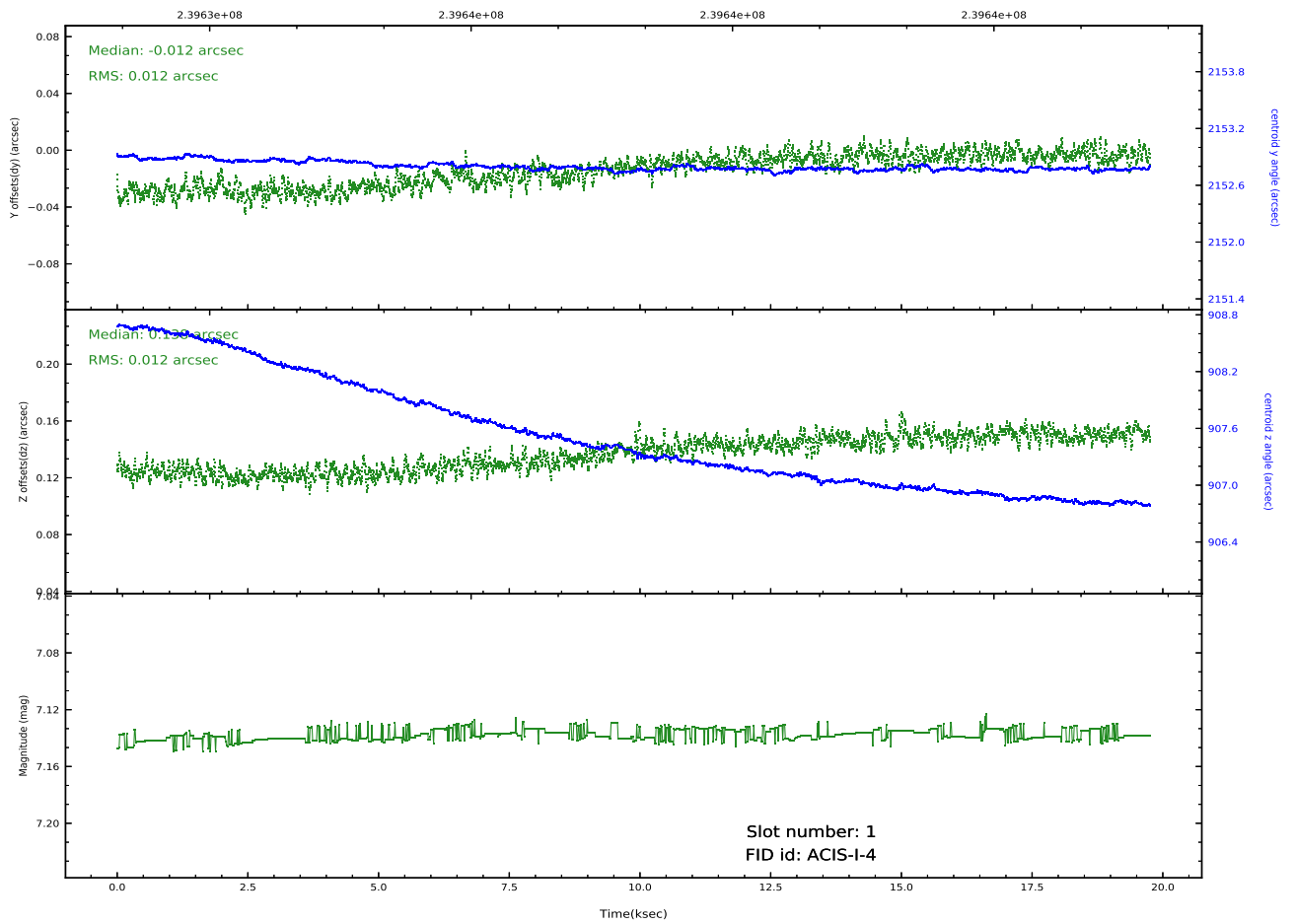
Time (s)



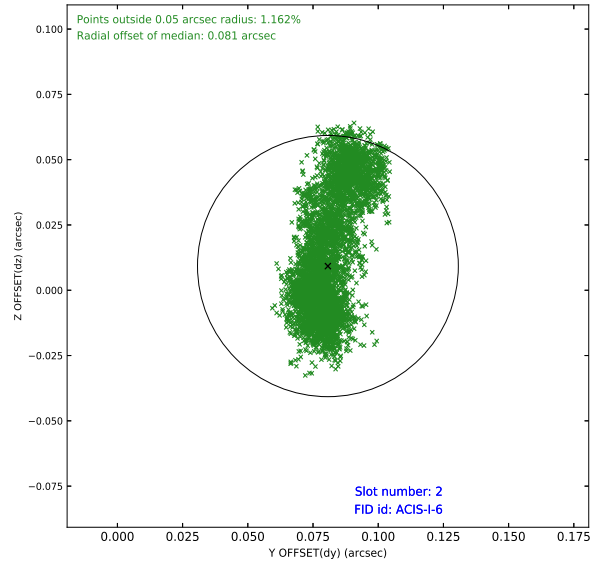
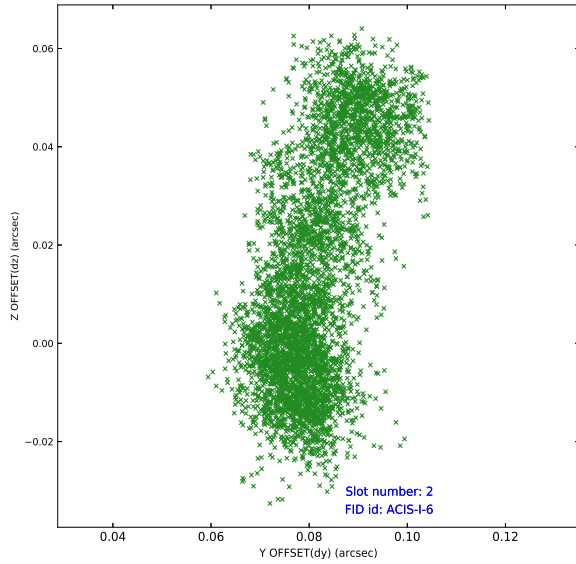
## 2.5.2 Slot 1



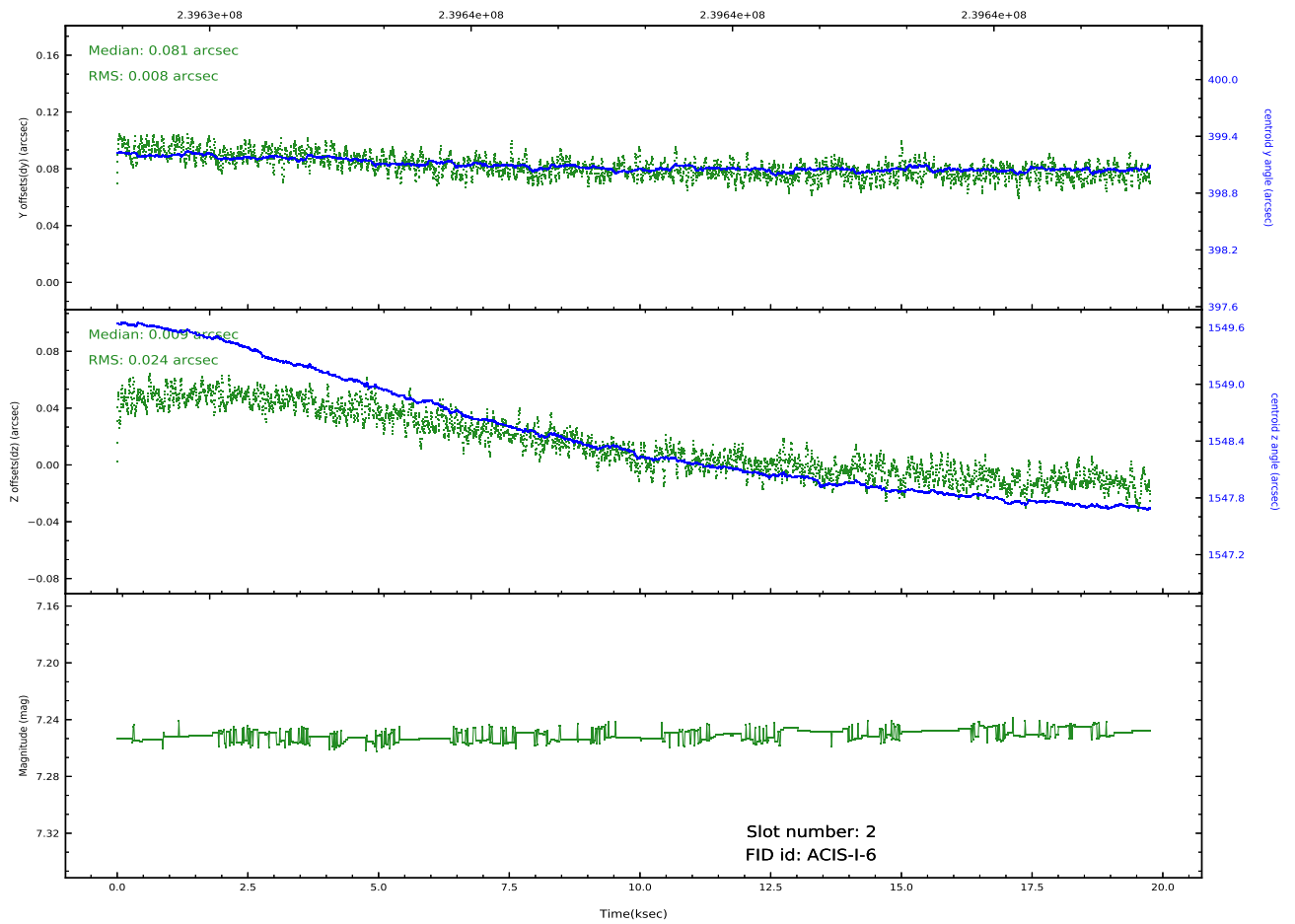
Time (s)



### 2.5.3 Slot 2



Time (s)



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.7501

## A.2 Comments