

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4818 - L2 Version 5  
Chandra X-Ray Center

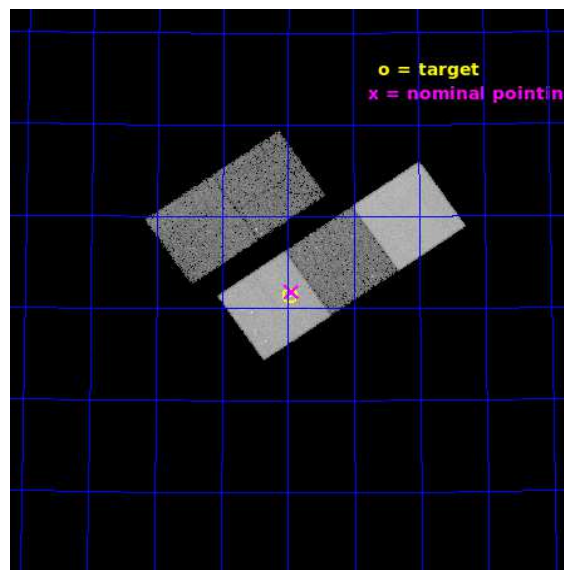
L2 Processing Date : Oct 7 2020

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# 1 Front

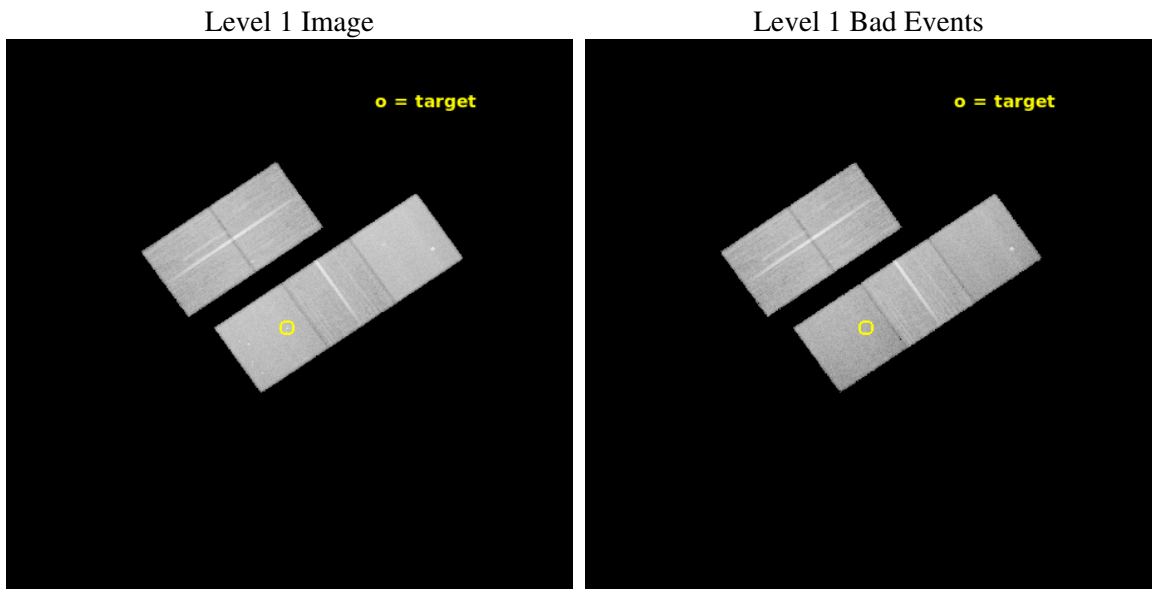
seq_num	700901	Sequence number
obs_id	4818	Observation id
title	ANISOTROPIC INVERSE COMPTON SCATTERING IN THE POWERFUL RADIO GALAXY 3C 325	Proposal title
observer	Dr. Gianfranco Brunetti	Principal investigator
object	3C 325	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	237.494167	Observer's specified target RA [deg]
dec_targ	62.689167	Observer's specified target Dec [deg]
ra_nom	237.48543478568	Nominal RA [deg]
dec_nom	62.697263835102	Nominal Dec [deg]
roll_nom	145.23380503489	Nominal Roll [deg]
revision	5	Processing version of data
ontime	29040.799944133	Sum of GTIs [s]
livetime	28661.360513337	Livetime [s]
ontime2	29034.462359369	Sum of GTIs [s]
ontime3	29031.362429082	Sum of GTIs [s]
ontime5	29040.799944133	Sum of GTIs [s]
ontime6	29040.799944133	Sum of GTIs [s]
ontime7	29040.799944133	Sum of GTIs [s]
l2events	250110	Number of level 2 events



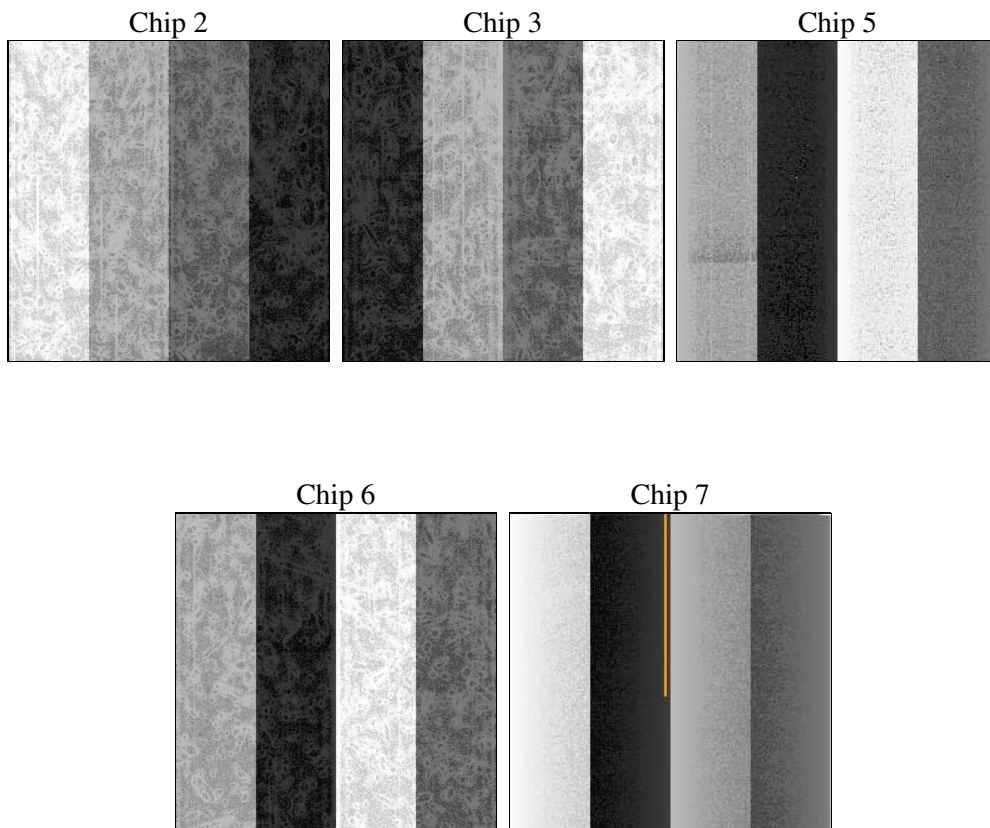
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	29000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	29040.799944133	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime2	29034.462359369	Sum of GTIs [s]
date	2020-10-07T23:33:23	Date and time of file creation	ontime3	29031.362429082	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	29040.799944133	Sum of GTIs [s]
			ontime6	29040.799944133	Sum of GTIs [s]
			ontime7	29040.799944133	Sum of GTIs [s]
			l1events	1026370	Number of level 1 events

### 2.1.4 Events

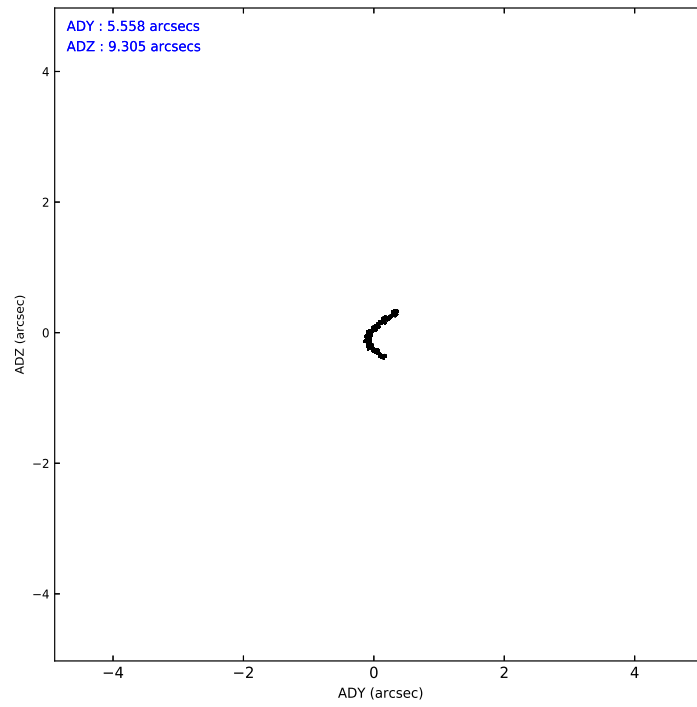
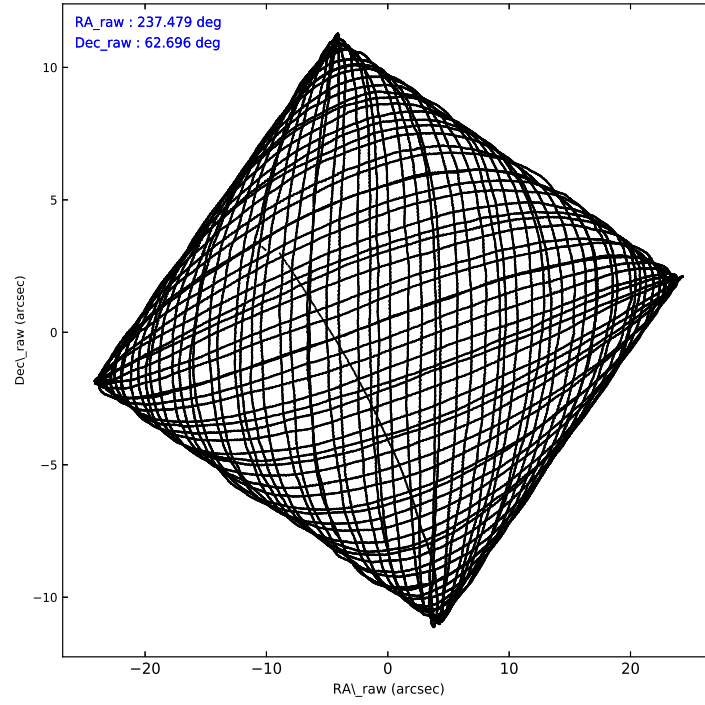
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	190342	187414	249372	189818	209424
rejected events	172587	169288	133124	170870	117171
rejected %	90%	90%	53%	90%	55%

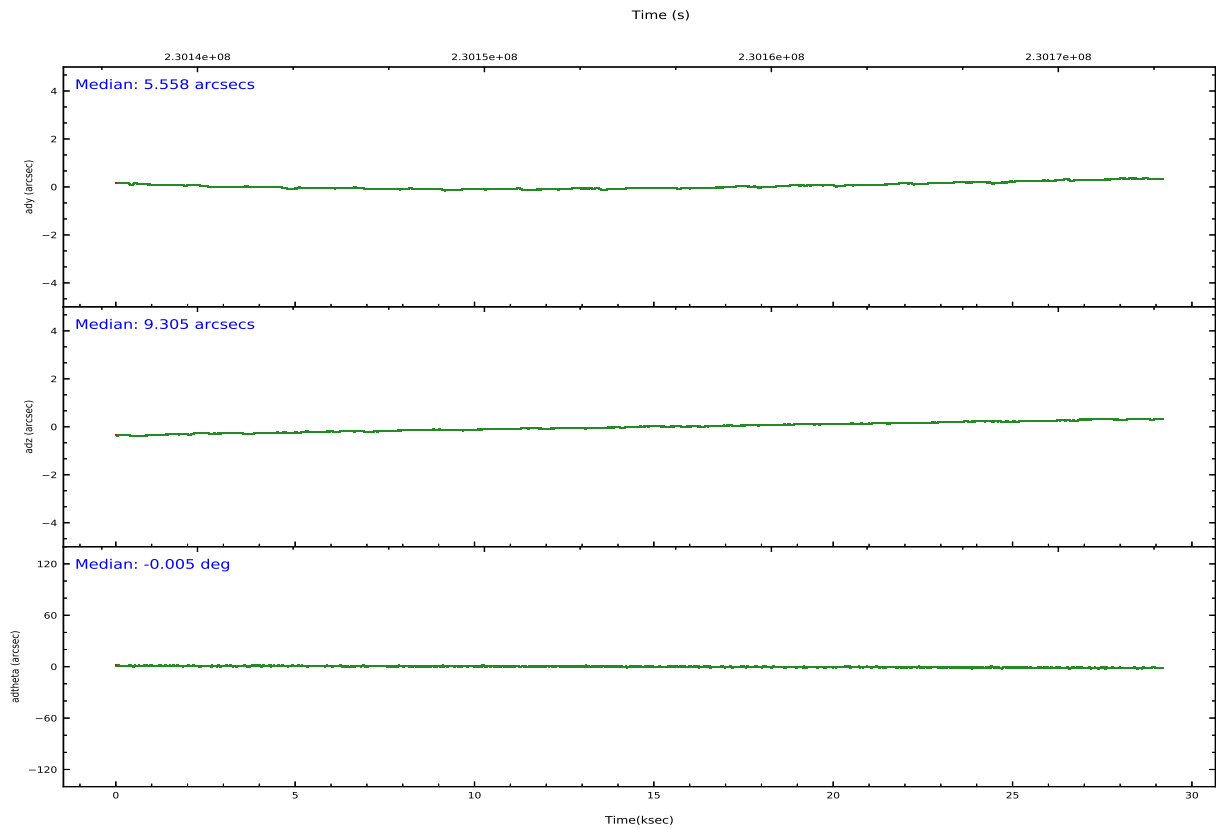
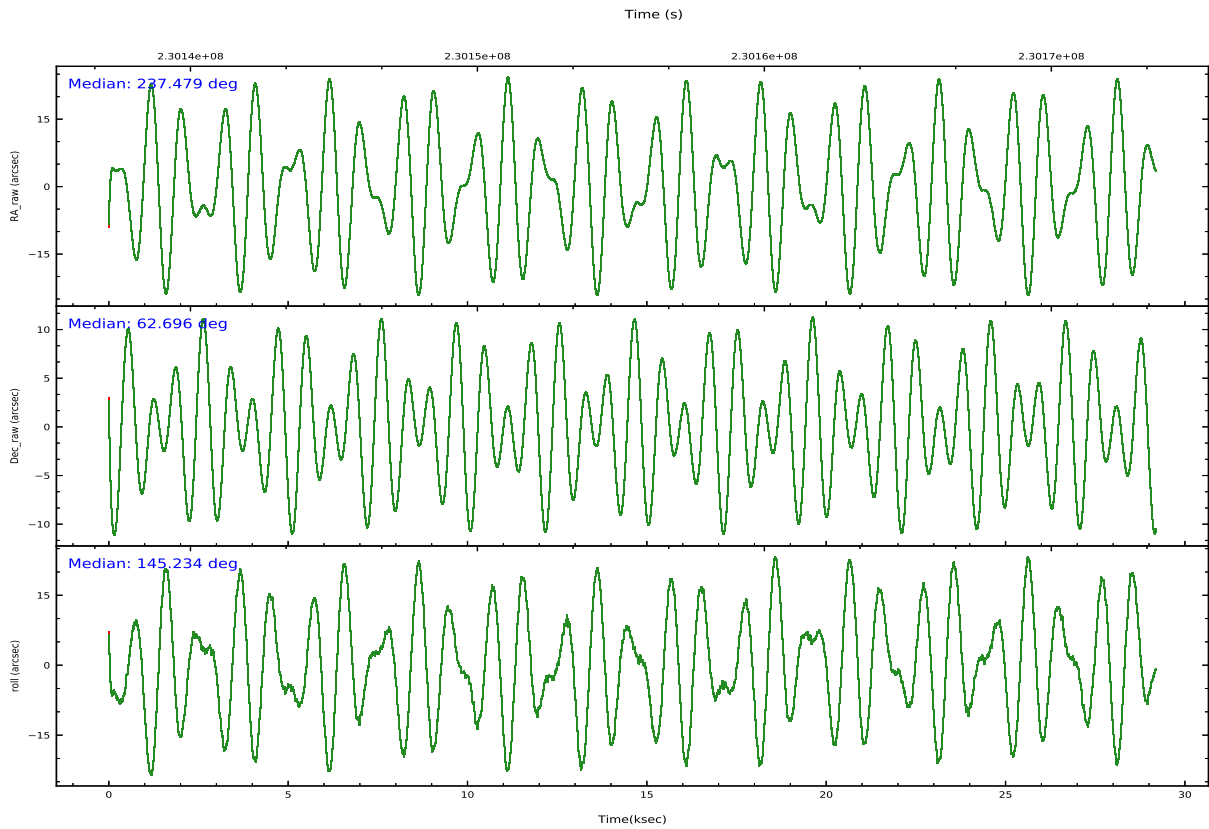
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	6175	6578	6737	6318	8108
	3%	3%	2%	3%	3%
grade 1 events	80	81	169	59	172
	0%	0%	0%	0%	0%
grade 2 events	4276	3737	33592	4272	17159
	2%	1%	13%	2%	8%
grade 3 events	2078	2100	4526	2163	8342
	1%	1%	1%	1%	3%
grade 4 events	2008	2084	4268	2122	8428
	1%	1%	1%	1%	4%
grade 5 events	6349	7556	21104	7834	22581
	3%	4%	8%	4%	10%
grade 6 events	3221	3629	67139	4074	50221
	1%	1%	26%	2%	23%
grade 7 events	166155	161649	111837	162976	94413
	87%	86%	44%	85%	45%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23567	ACIS-23567	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	237.538451	237.48543478568	Subarray requested	NONE	NONE
[deg] Pointing Dec	62.694092	62.697263835102	Alternating exposures requested	N	N
[deg] Pointing Roll	145.020651	145.23380503489	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	230141921.184000	230140986.02921			
Observation start date	2005-04-17T16:17:37	2005-04-17T16:03:06			
[s] Observation end time (MET)	230170921.184000	230171536.1556			
Observation end date	2005-04-18T00:20:57	2005-04-18T00:32:16			
Read mode	TIMED	TIMED			

## 2.3 Aspect





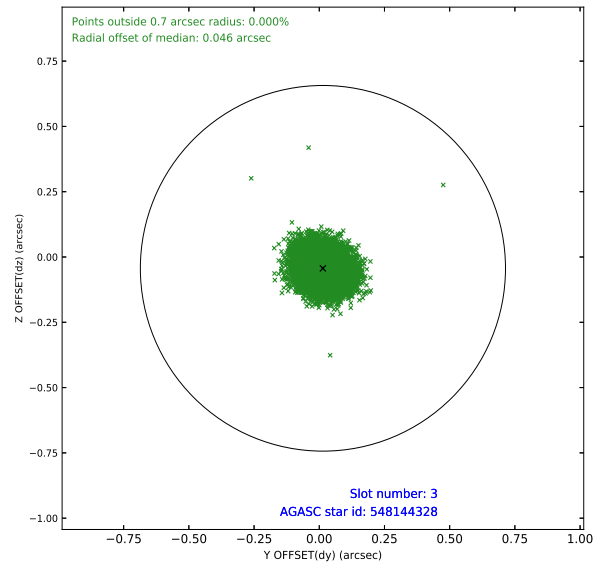
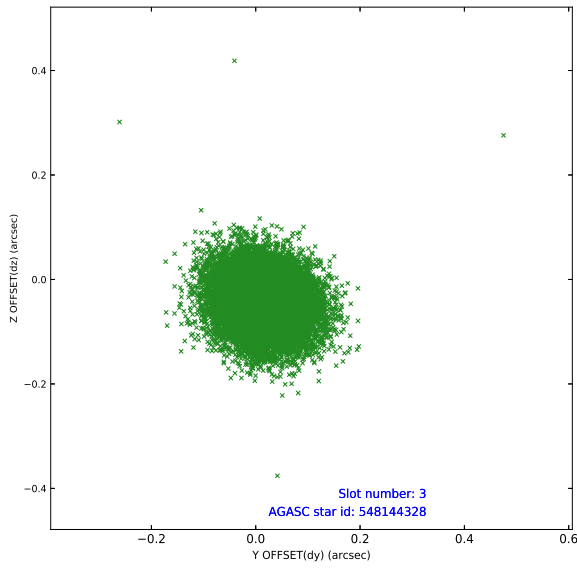
### Slot Statistics

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	7121	1.000	-0.096	-0.086	0.009	0.014	0.000000	0.000000	-758.38	-1730
1	FID		ACIS-S-4	7.21	7122	1.000	0.182	0.069	0.007	0.014	0.000000	0.000000	2155.10	177
2	FID		ACIS-S-5	7.23	7122	1.000	-0.117	0.025	0.009	0.018	0.000000	0.000000	-1811.18	171
3	GUIDE	used	548144328	9.27	14240	1.000	0.014	-0.043	0.071	0.117	238.146367	62.317666	-1607.05	523
4	GUIDE	used	548145888	8.78	14241	1.000	0.008	0.103	0.079	0.127	237.124487	62.344352	-153.56	1426
5	GUIDE	used	548541328	9.16	14237	1.000	-0.069	-0.074	0.078	0.127	237.408583	62.671659	129.66	189
6	GUIDE	used	548550376	9.00	14236	1.000	0.058	-0.001	0.069	0.111	236.215563	62.860309	2137.36	737
7	GUIDE	used	548550496	8.42	14236	1.000	-0.012	0.019	0.060	0.098	237.278131	63.142551	1273.23	-1080

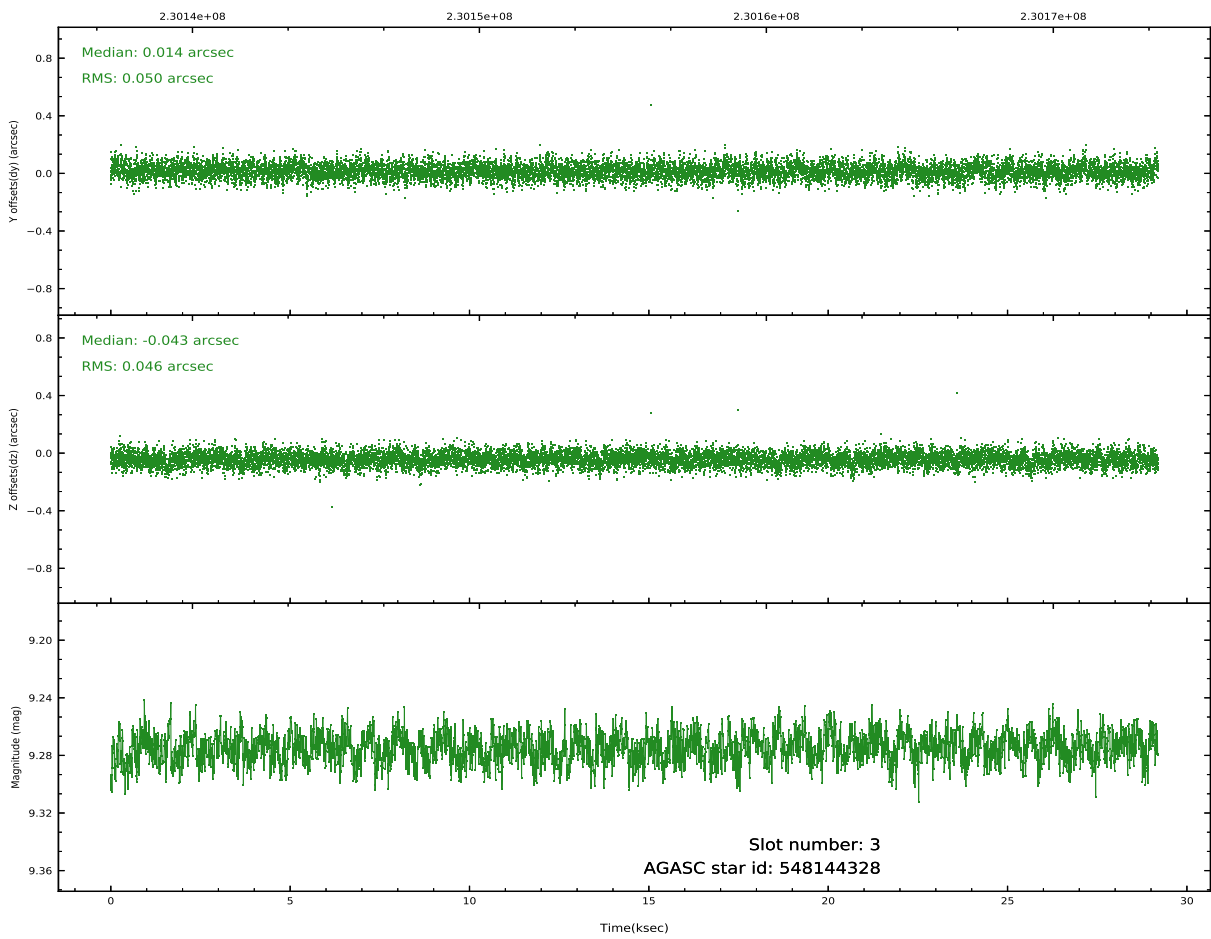
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## 2.4 Star Slots

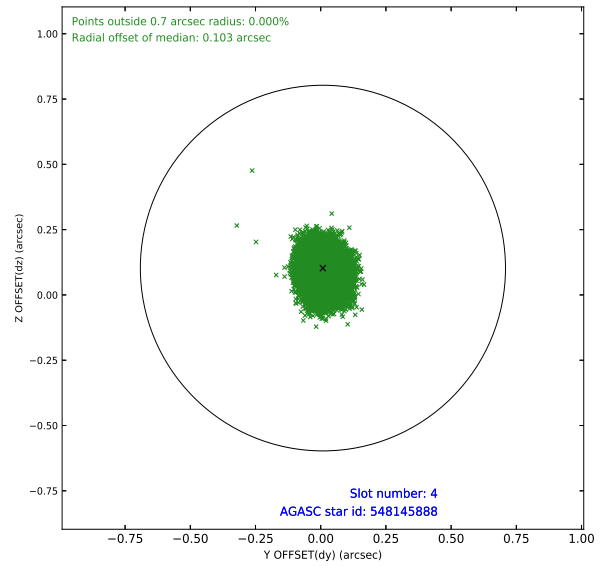
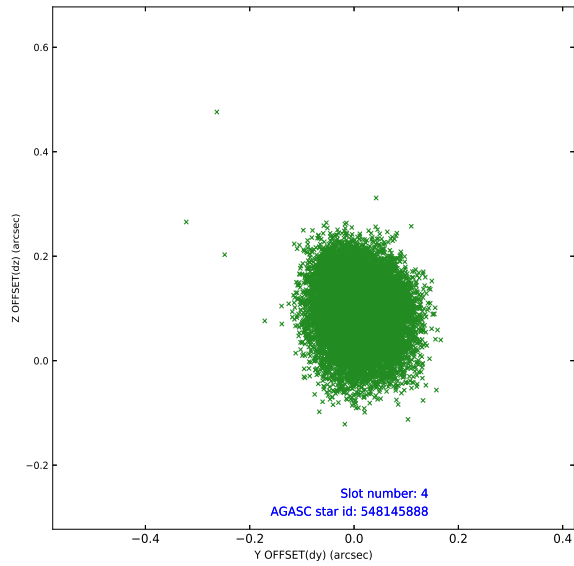
### 2.4.1 Slot 3



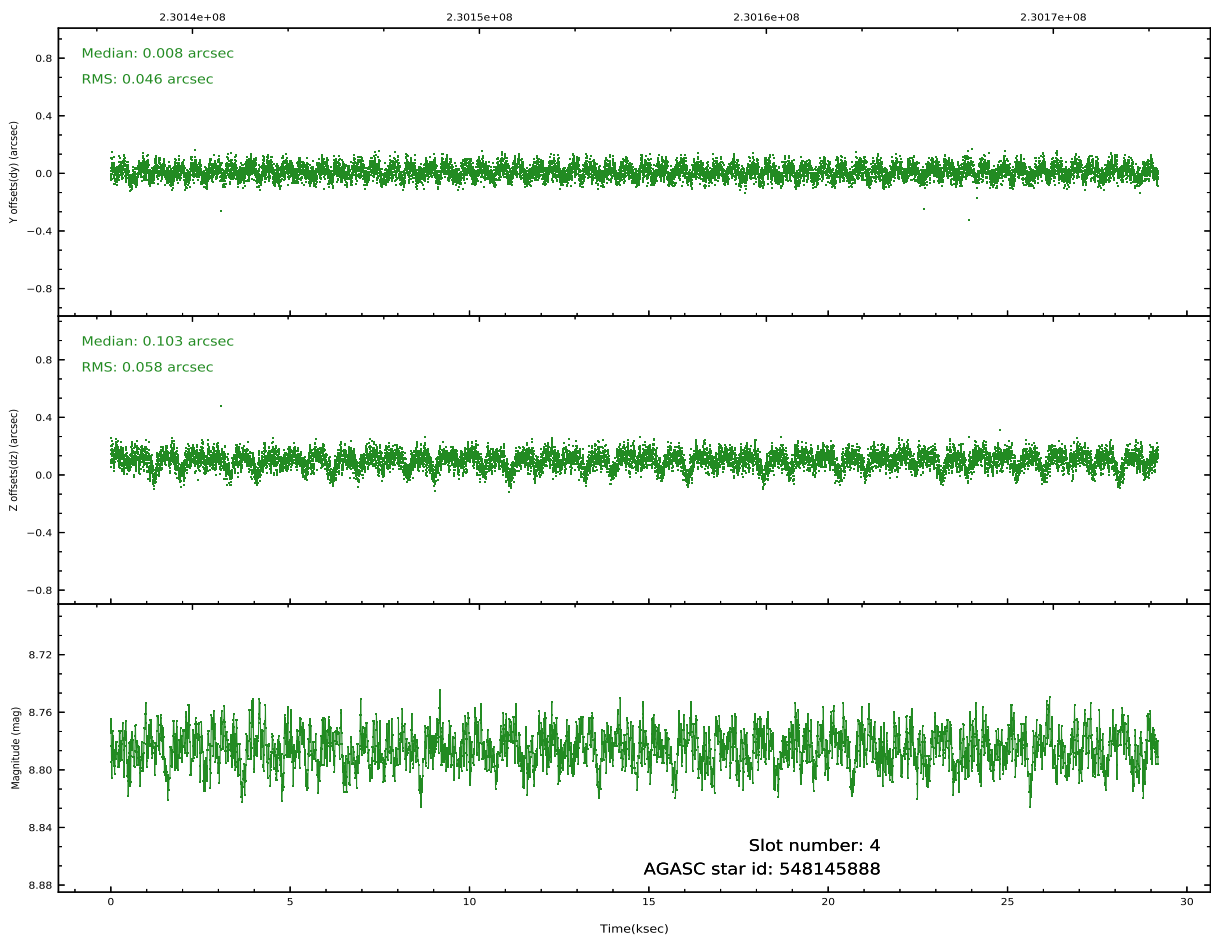
Time (s)



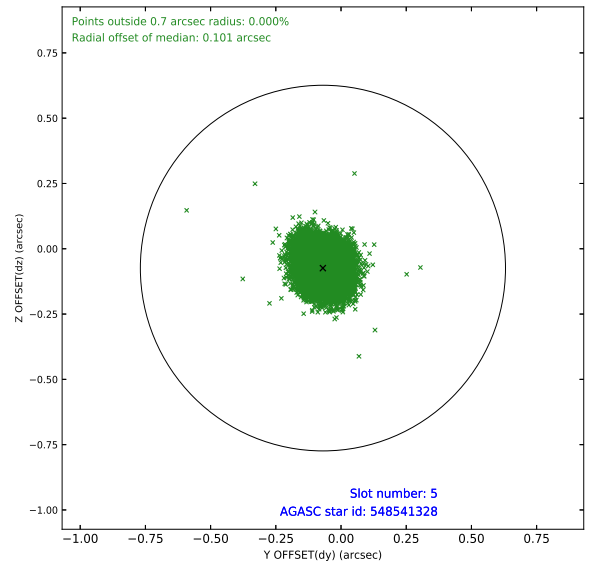
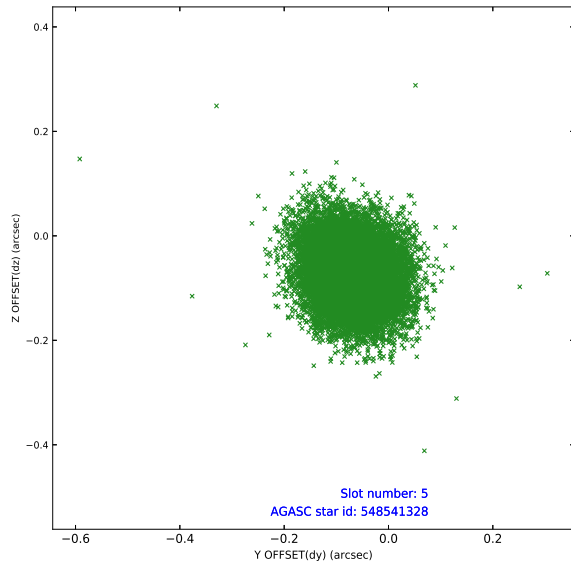
## 2.4.2 Slot 4



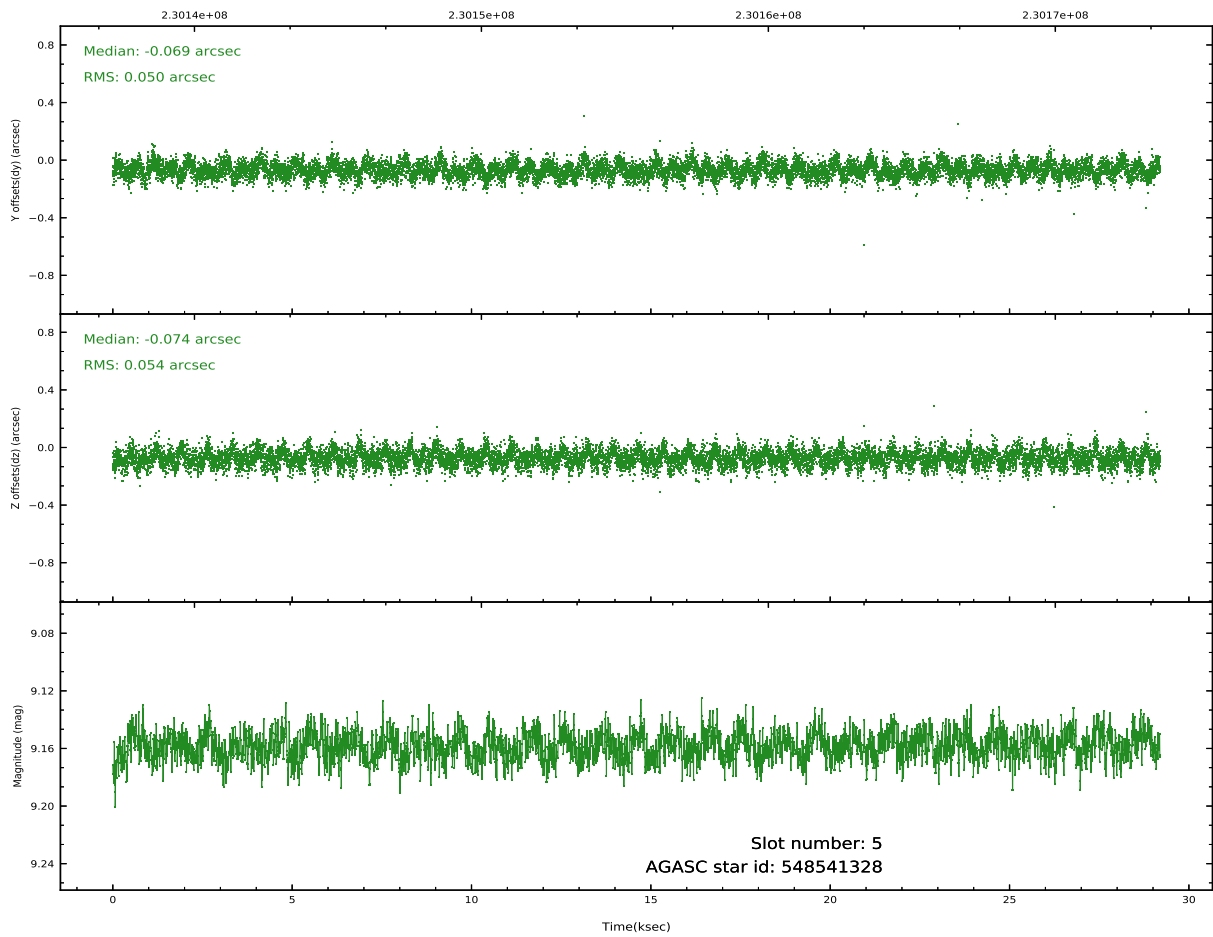
Time (s)



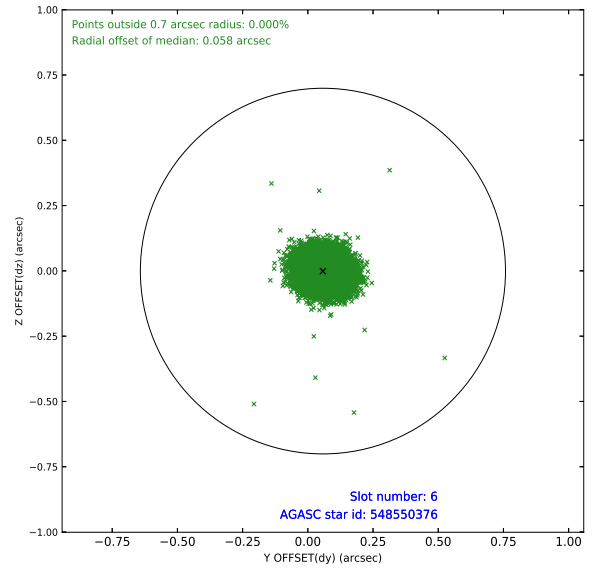
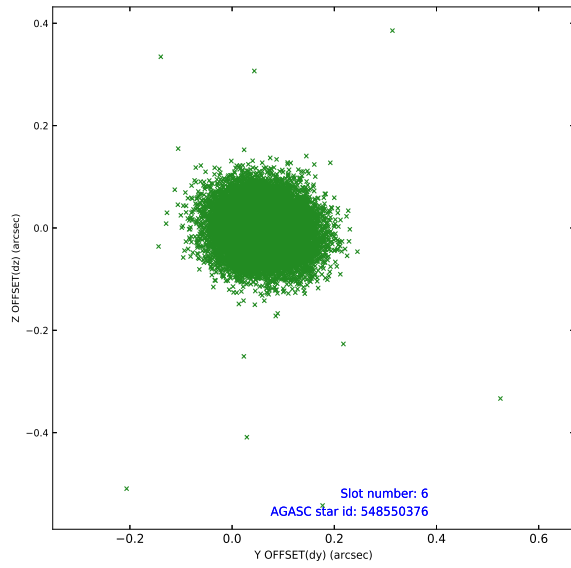
### 2.4.3 Slot 5



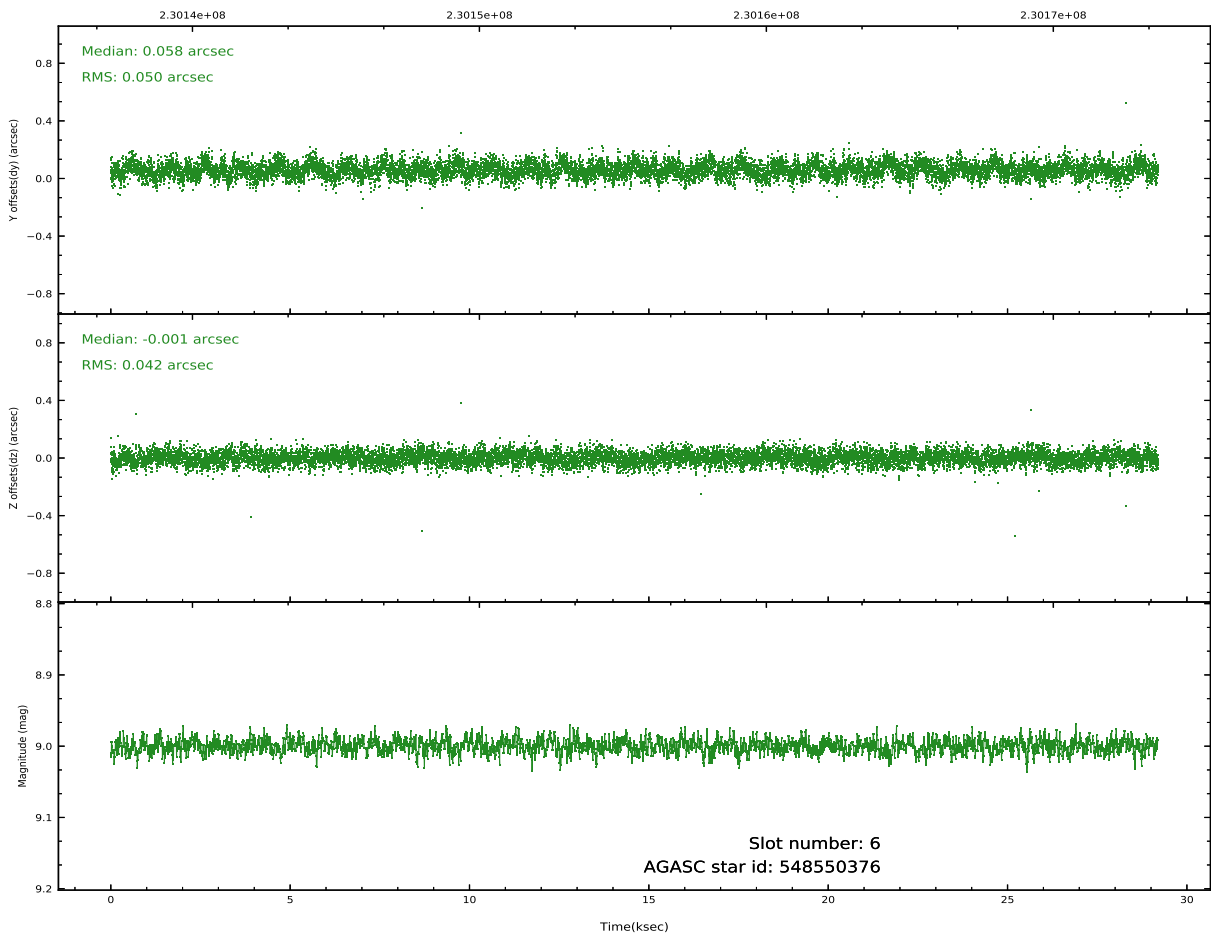
Time (s)



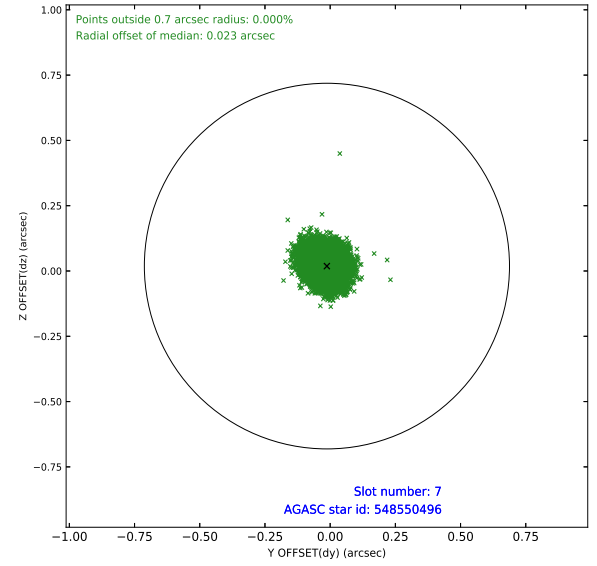
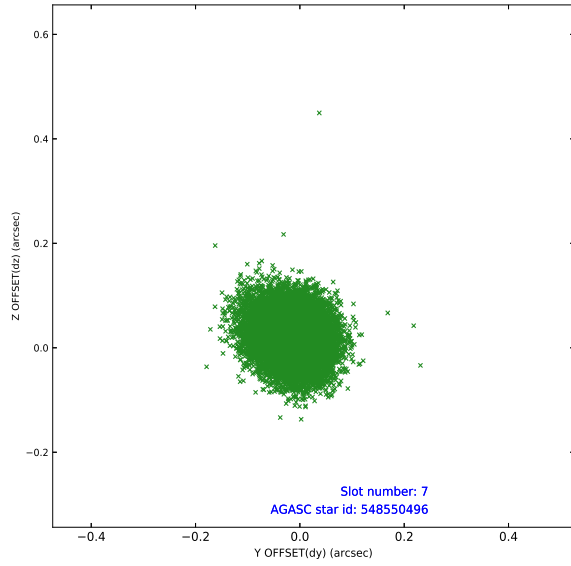
## 2.4.4 Slot 6



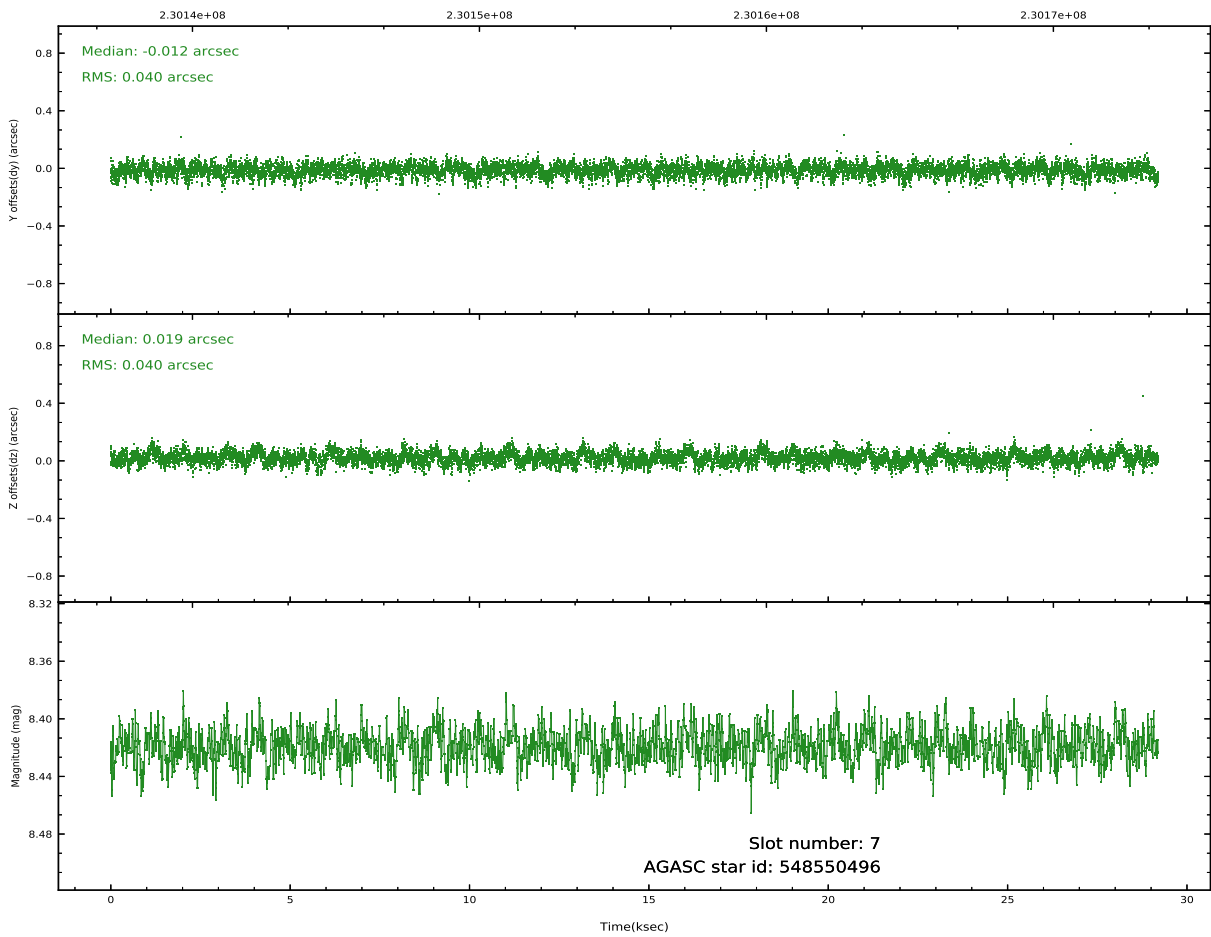
Time (s)



## 2.4.5 Slot 7

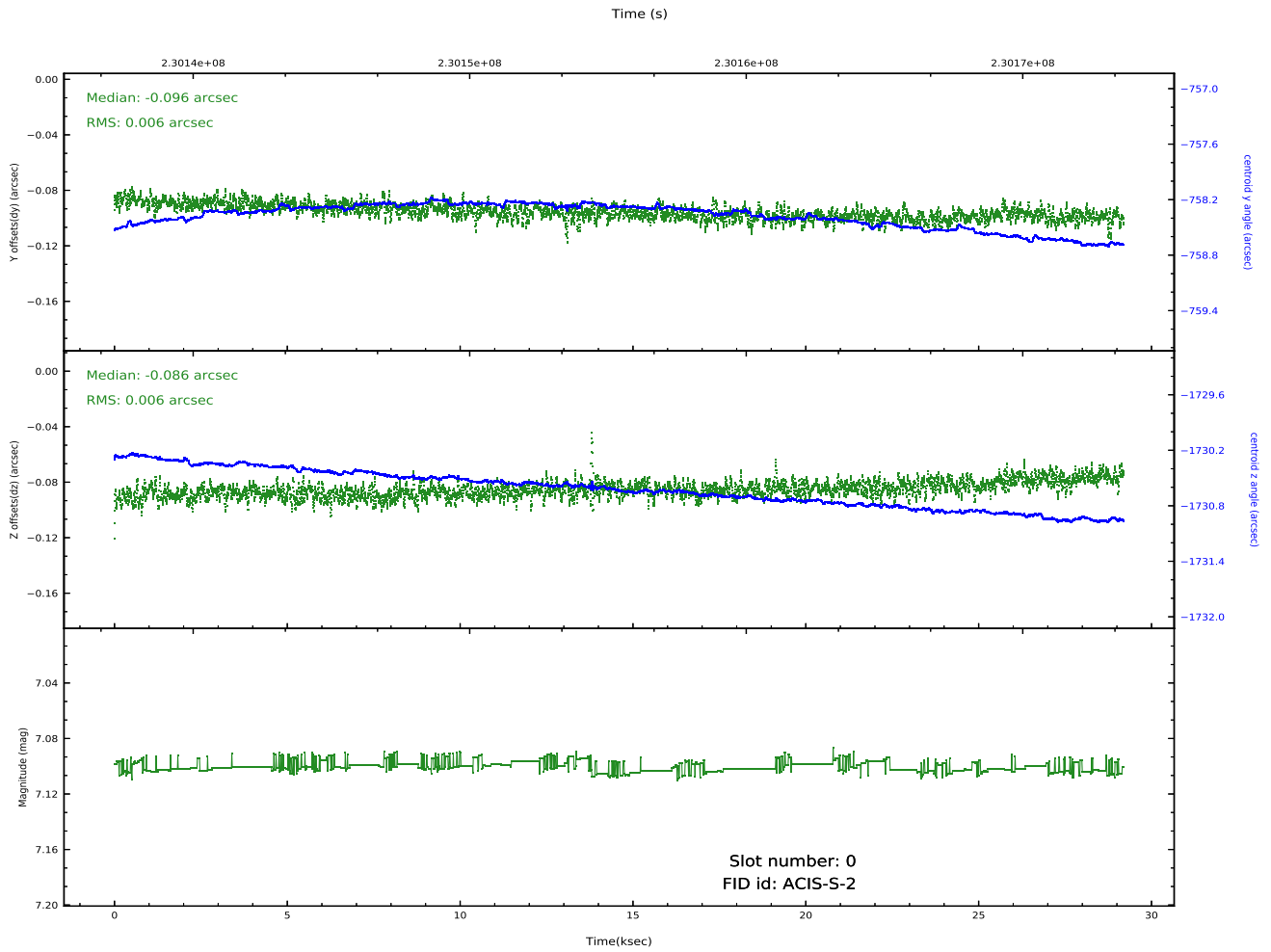
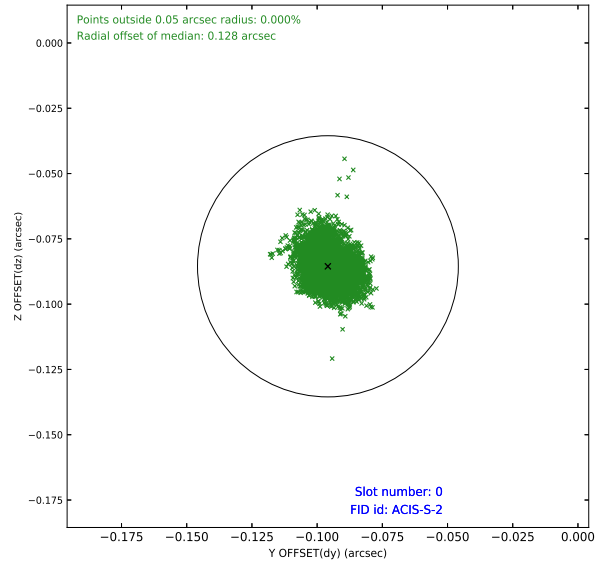
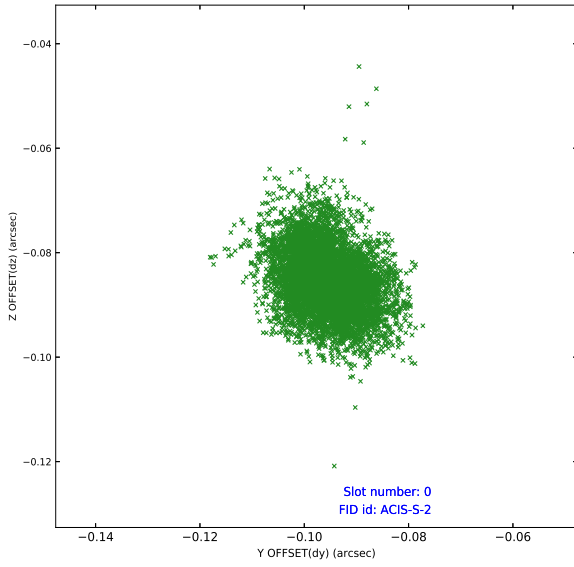


Time (s)

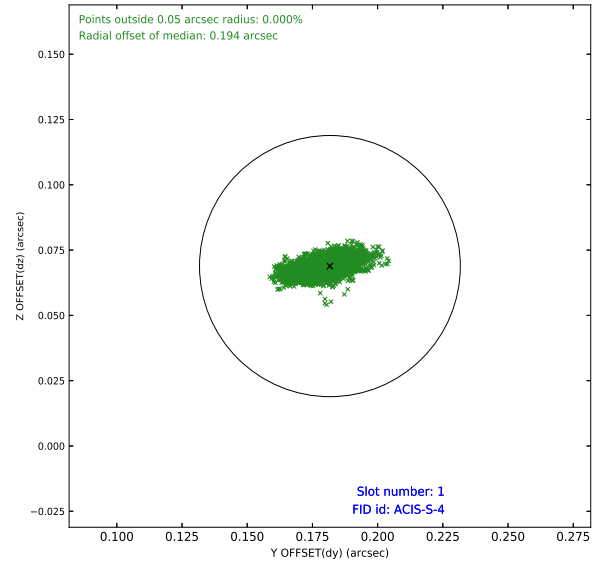
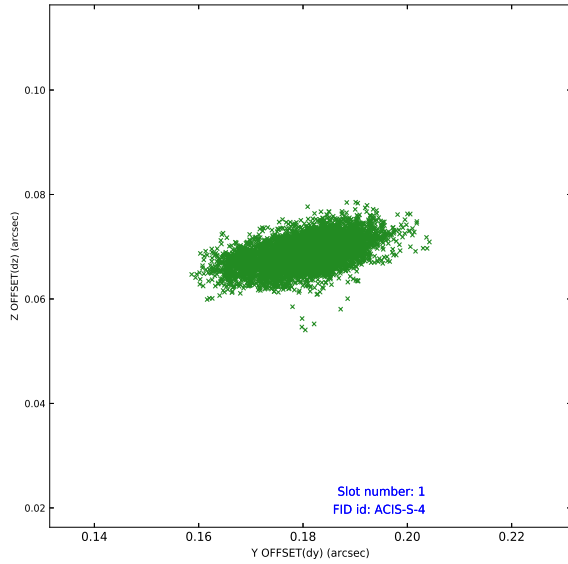


## 2.5 FID Slots

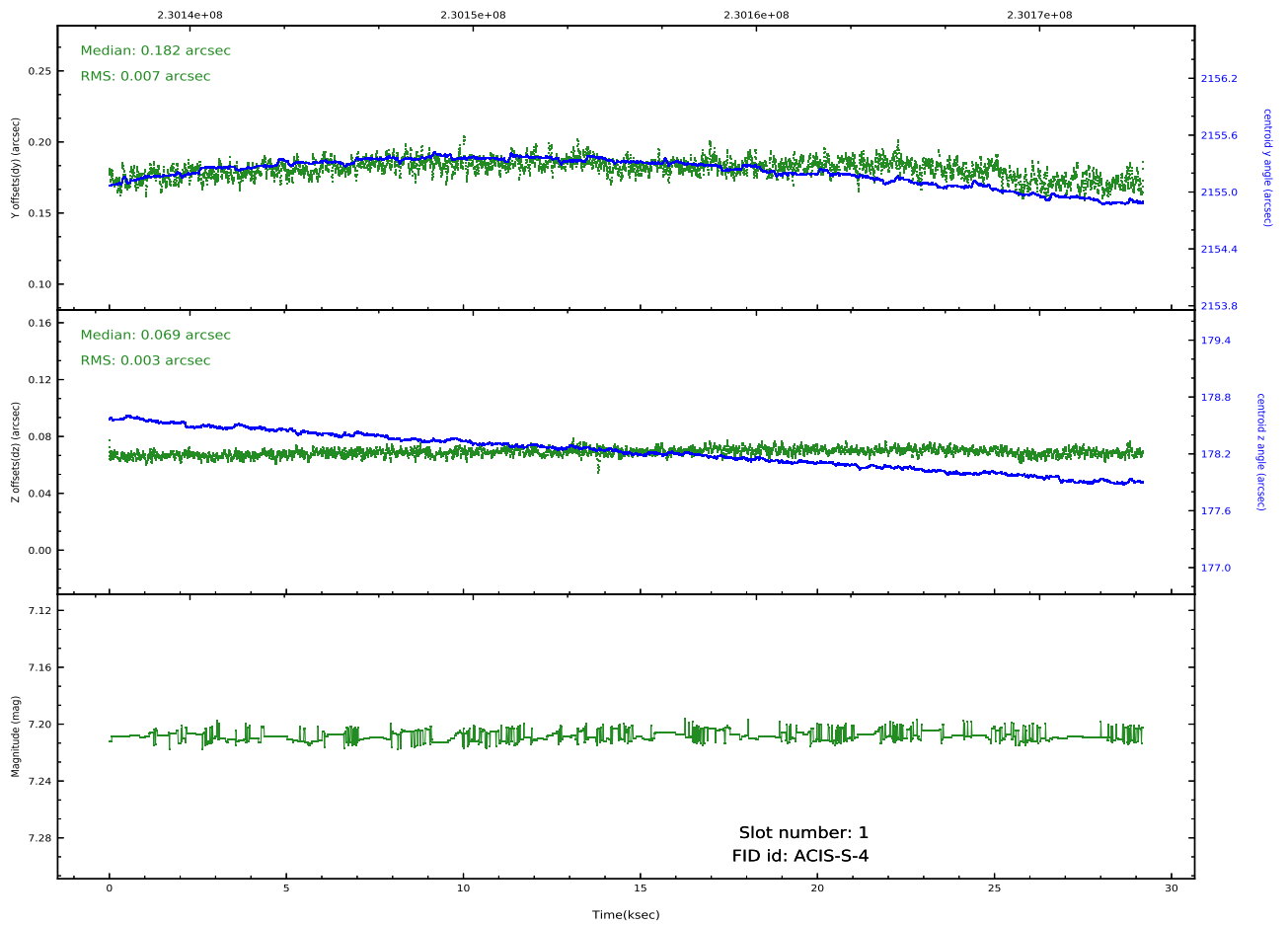
### 2.5.1 Slot 0



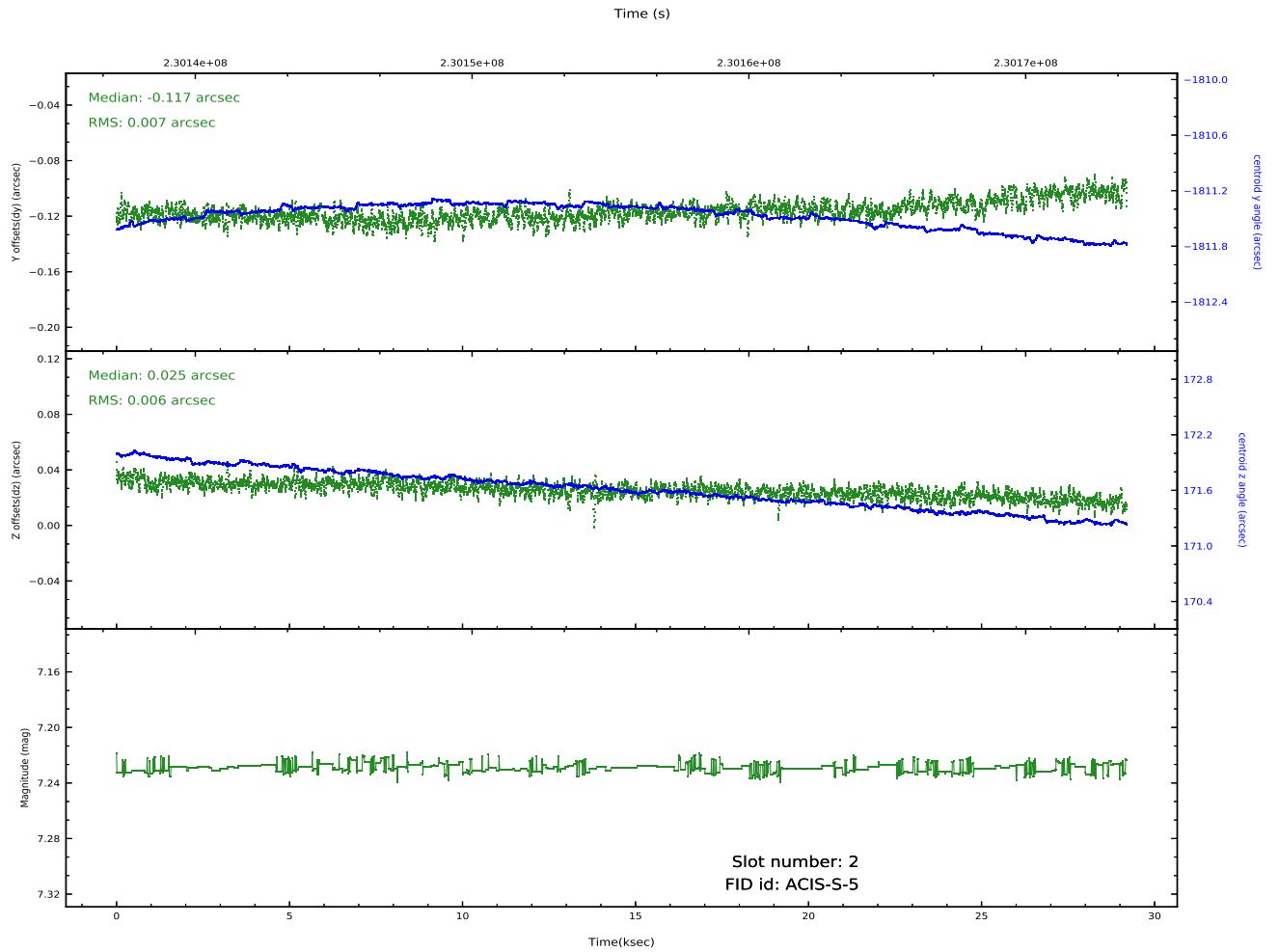
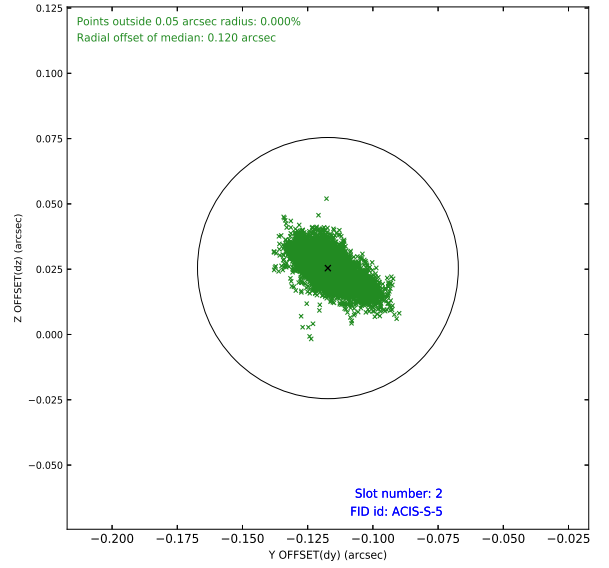
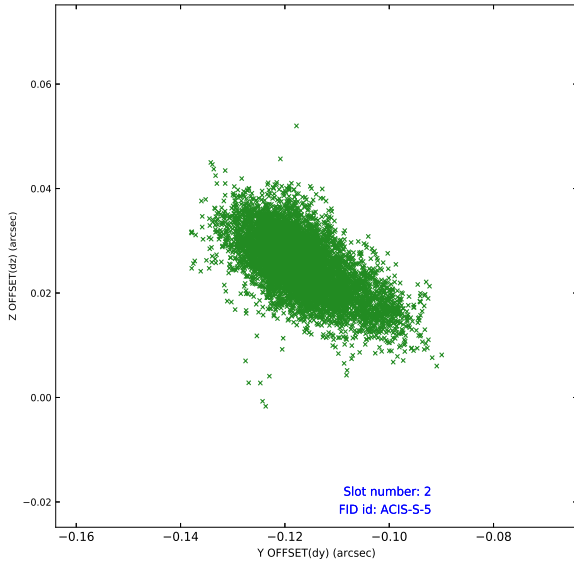
## 2.5.2 Slot 1



Time (s)



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.04079

## A.2 Comments