

# V&V Reference Report

## L2 ASCDS Version : 10.3.1

Observation 16179 - L2 Version 1  
Chandra X-Ray Center

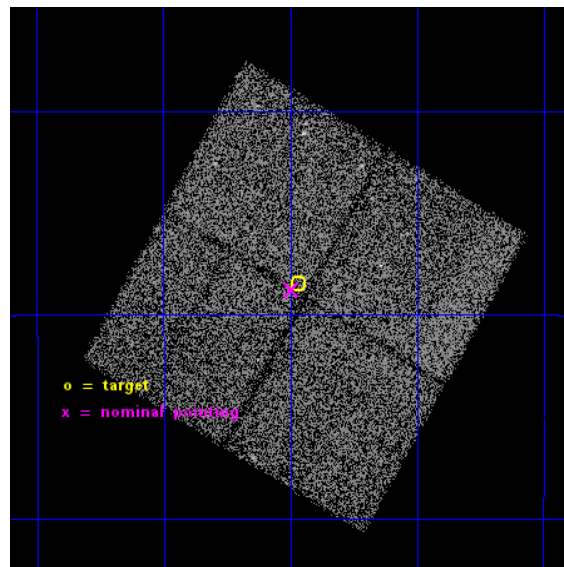
L2 Processing Date : Jan 1 2015

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# 1 Front

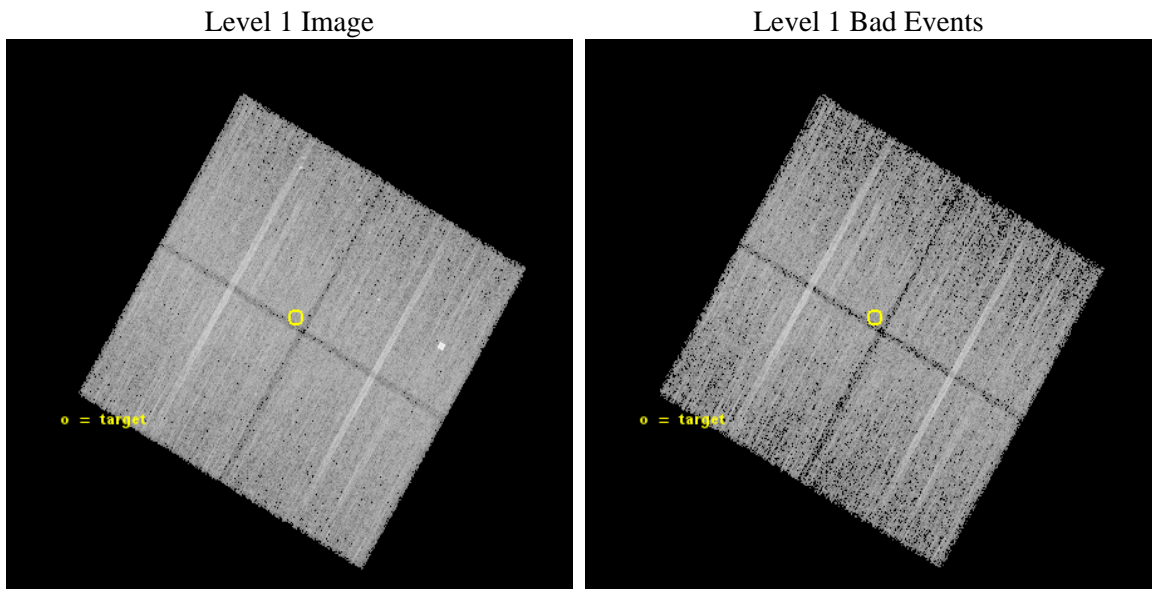
seq_num	901115	Sequence number
obs_id	16179	Observation id
title	The Chandra Deep Field-South: A Peerless Ultradeep Survey for Exploring the Distant X-ray Universe	Proposal title
observer	Prof. W.N. Brandt	Principal investigator
object	Chandra Deep Field-South	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	53.117083	Observer's specified target RA [deg]
dec_targ	-27.807333	Observer's specified target Dec [deg]
ra_nom	53.123929708283	Nominal RA [deg]
dec_nom	-27.81286722616	Nominal Dec [deg]
roll_nom	300.21188929702	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30373.759223223	Sum of GTIs [s]
livetime	29976.903698135	Livetime [s]
ontime0	30373.759213269	Sum of GTIs [s]
ontime1	30370.618232846	Sum of GTIs [s]
ontime2	30376.900233626	Sum of GTIs [s]
ontime3	30373.759223223	Sum of GTIs [s]
l2events	55404	Number of level 2 events



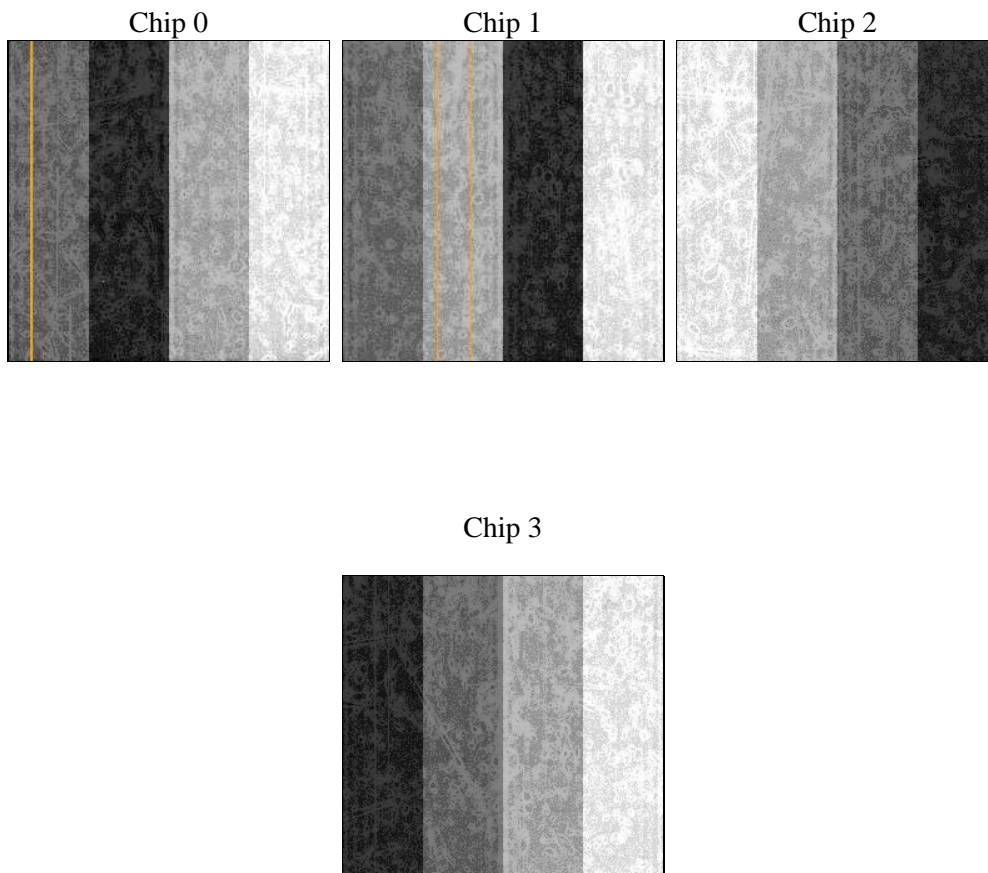
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30287.185000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	30373.759223223	Sum of GTIs [s]
caldbver	4.6.5	&#160	ontime0	30373.759213269	Sum of GTIs [s]
date	2015-01-01T14:44:21	Date and time of file creation	ontime1	30370.618232846	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	30376.900233626	Sum of GTIs [s]
			ontime3	30373.759223223	Sum of GTIs [s]
			l1events	518296	Number of level 1 events

### 2.1.4 Events

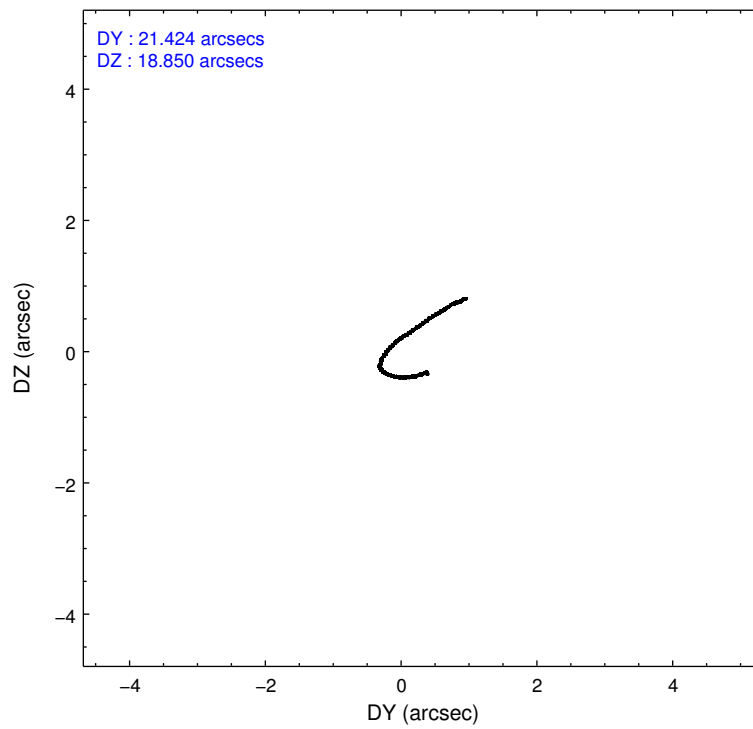
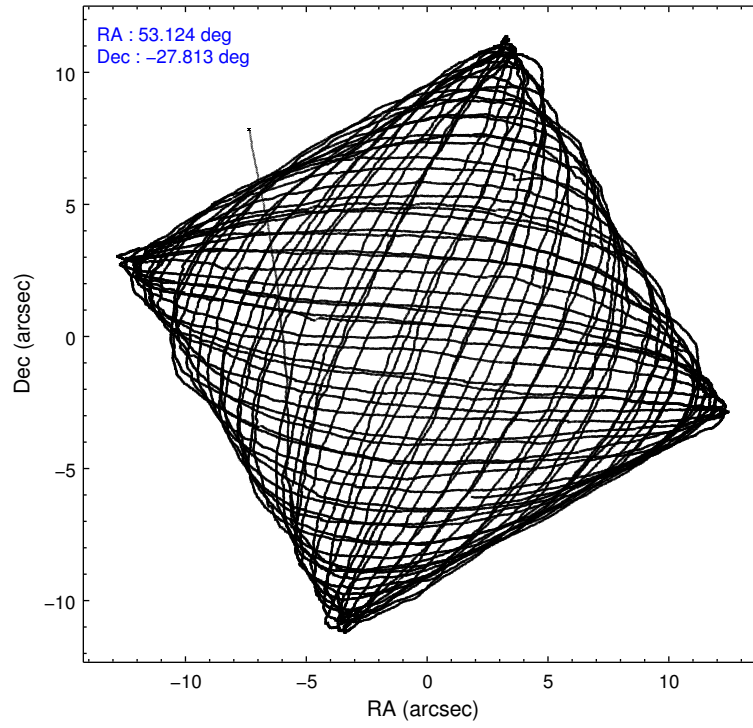
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	124441	127237	135768	130850
rejected events	108138	106672	120069	114997
rejected %	86%	83%	88%	87%

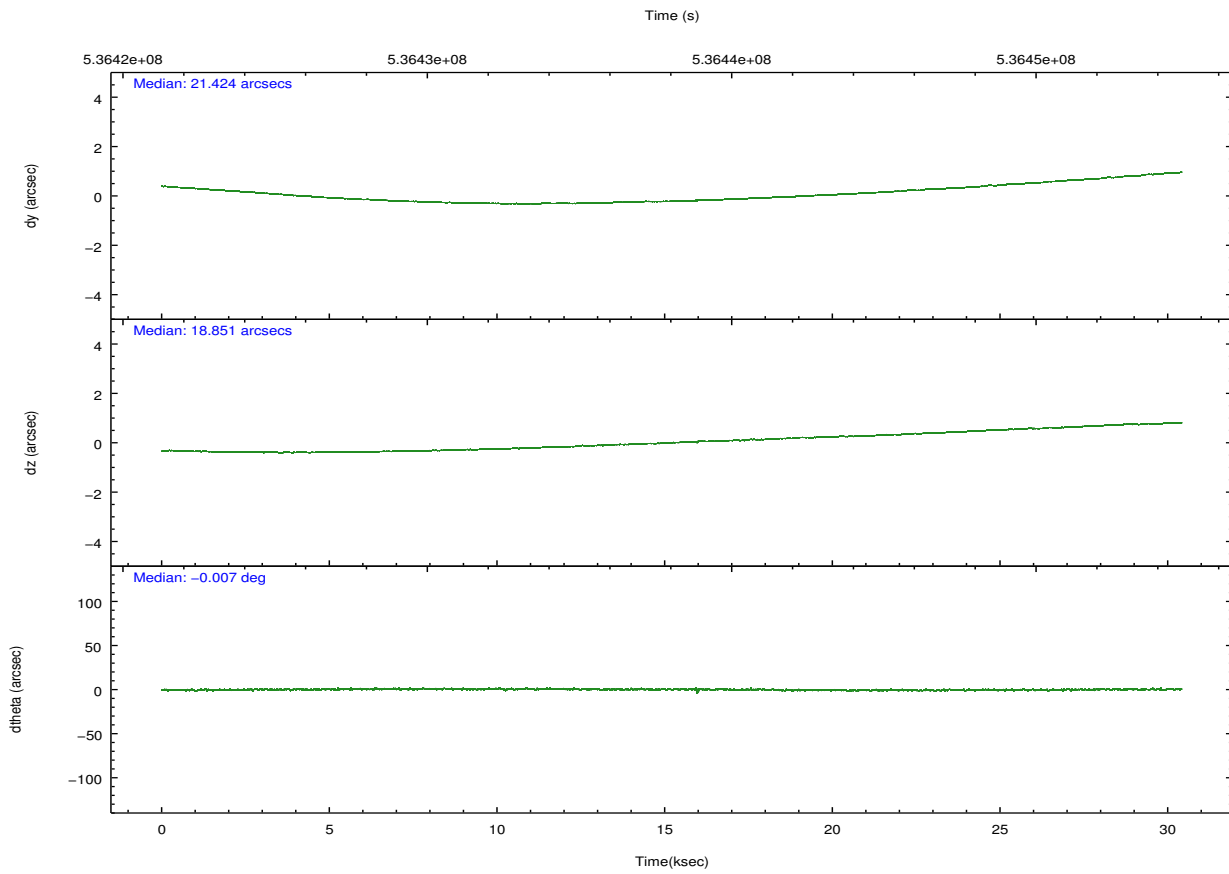
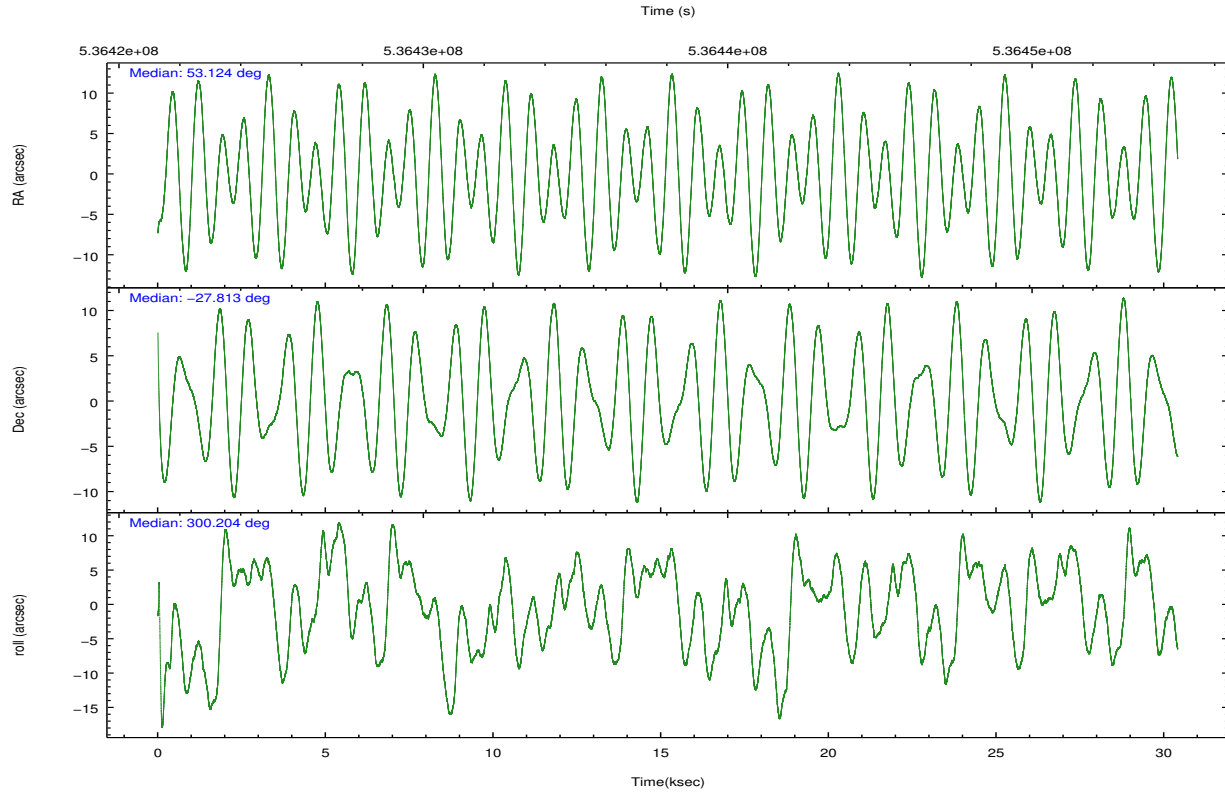
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5316	8735	5370	5578
	4%	6%	3%	4%
grade 1 events	80	90	75	77
	0%	0%	0%	0%
grade 2 events	4091	4375	3978	3644
	3%	3%	2%	2%
grade 3 events	1782	1744	1650	1653
	1%	1%	1%	1%
grade 4 events	1626	1799	1623	1694
	1%	1%	1%	1%
grade 5 events	6627	6931	6049	7392
	5%	5%	4%	5%
grade 6 events	3489	3913	3081	3288
	2%	3%	2%	2%
grade 7 events	101430	99650	113942	107524
	81%	78%	83%	82%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	53.096778	53.12392970828267	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.799228	-27.81286722616032	Alternating exposures requested	N	N
[deg] Pointing Roll	299.990531	300.2118892970209	[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	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	536422946.184000	536421424.99994			
Observation start date	2014-12-31T14:21:19	2014-12-31T13:57:04			
[s] Observation end time (MET)	536453233.184000	536453470.08923			
Observation end date	2014-12-31T22:46:06	2014-12-31T22:51:10			
Read mode	TIMED	TIMED			

## 2.3 Aspect





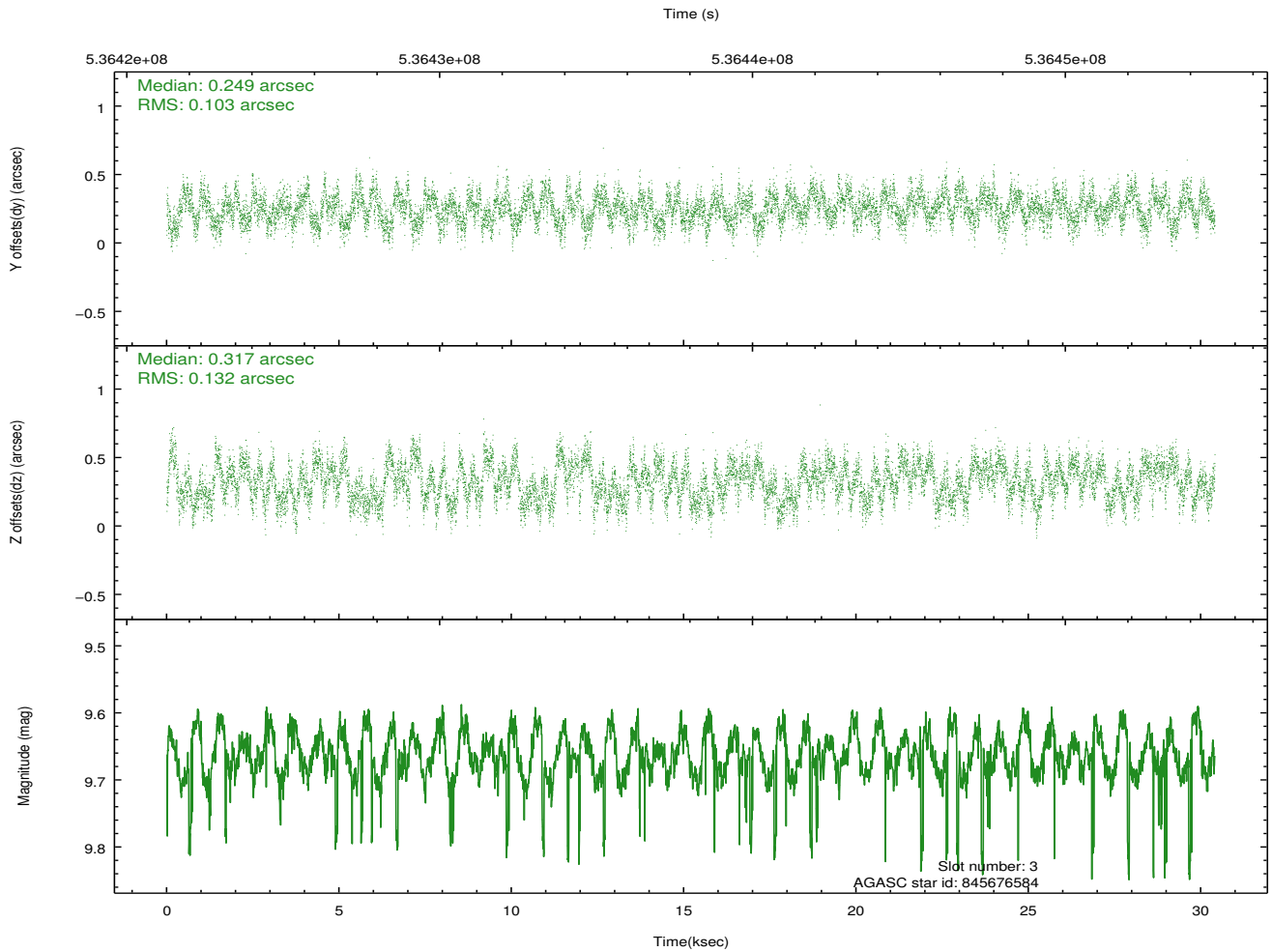
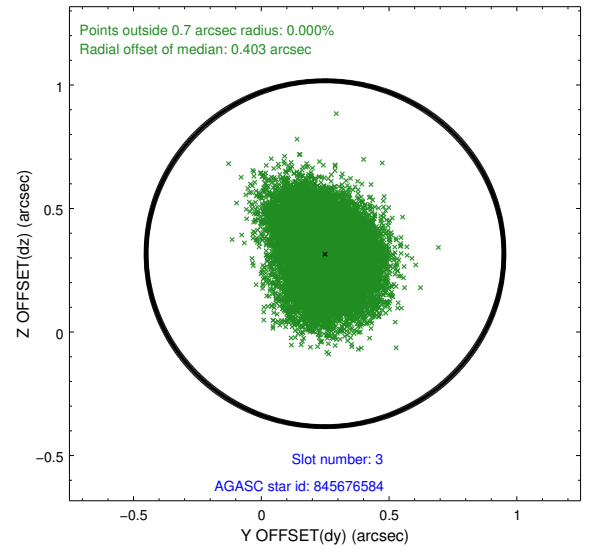
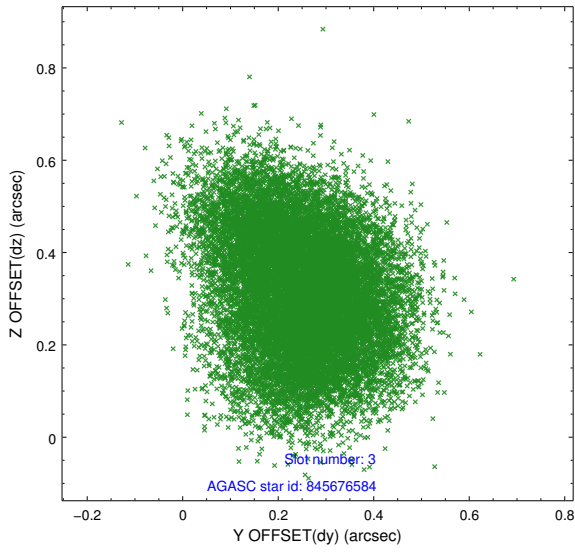
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.16	7417	0.067	-0.018	0.009	0.021	0.000000	0.000000	917.91	-842.55
1	FID		ACIS-I-2	7.05	7416	-0.023	-0.056	0.016	0.027	0.000000	0.000000	-776.23	-849.21
2	FID		ACIS-I-5	7.14	7417	-0.138	0.148	0.012	0.020	0.000000	0.000000	-1830.76	1054.83
3	GUIDE	used	845676584	9.66	14704	0.249	0.317	0.183	0.280	52.264247	-27.542890	-2118.95	-1844.64
4	GUIDE	used	845676728	9.30	14822	-0.043	0.155	0.138	0.215	52.877179	-27.664318	-769.76	-363.88
5	GUIDE	used	845676936	9.51	14818	0.304	-0.112	0.193	0.302	52.843773	-27.880153	-148.45	-842.72
6	GUIDE	used	845807880	8.76	14826	-0.297	-0.224	0.128	0.209	53.382027	-27.886093	725.52	629.28
7	GUIDE	used	845813656	10.16	14680	-0.187	-0.135	0.210	0.336	53.922767	-28.083703	2206.12	1756.51

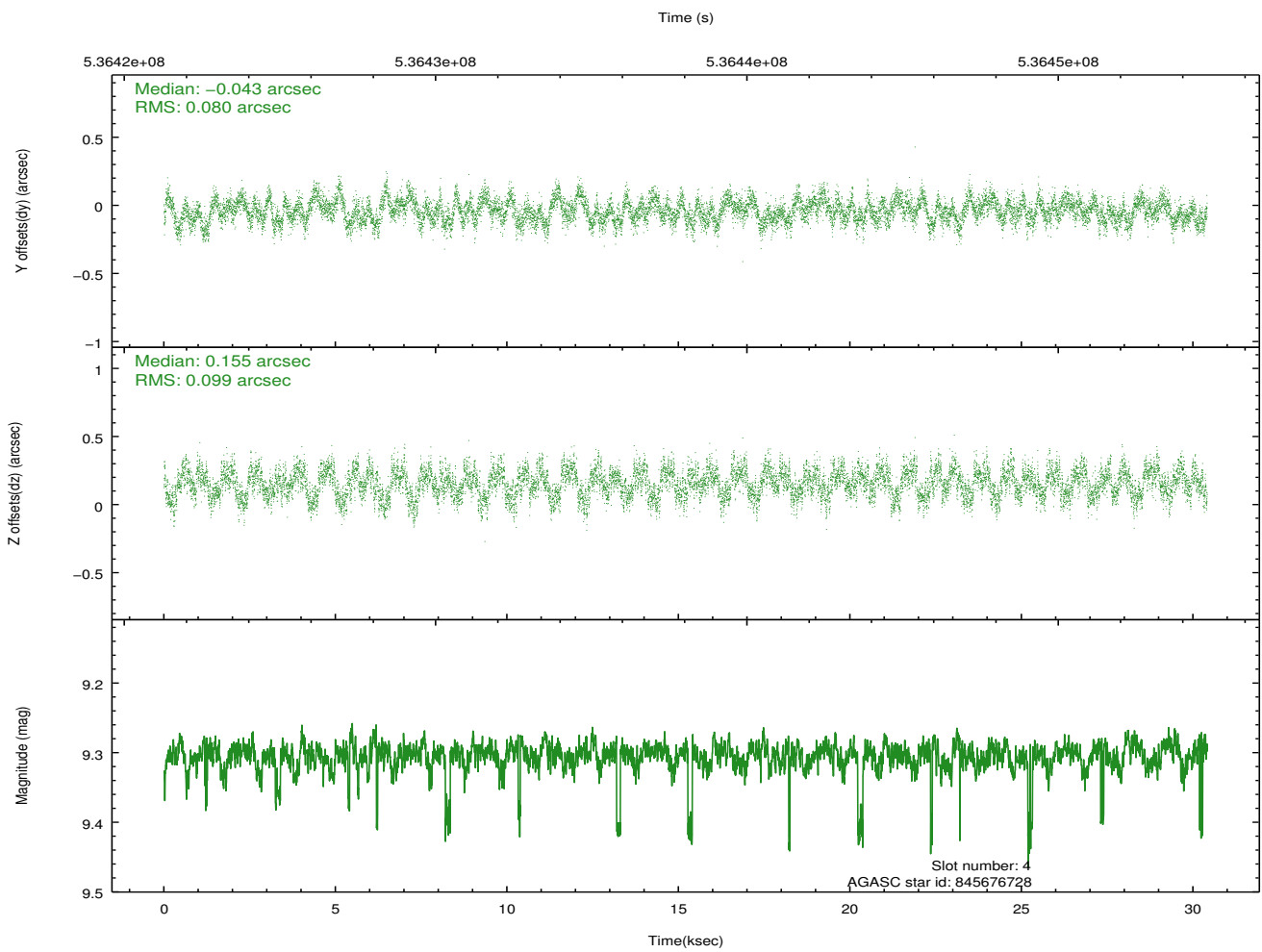
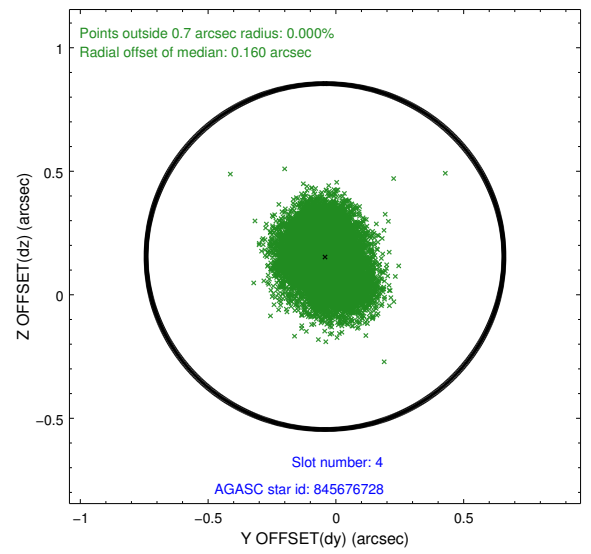
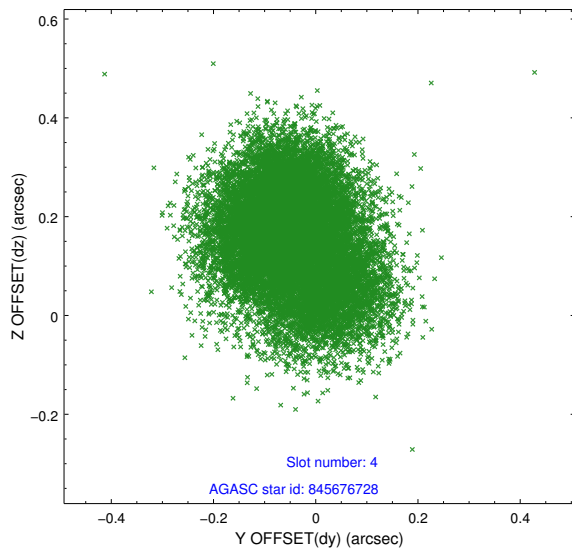
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## 2.4 Star Slots

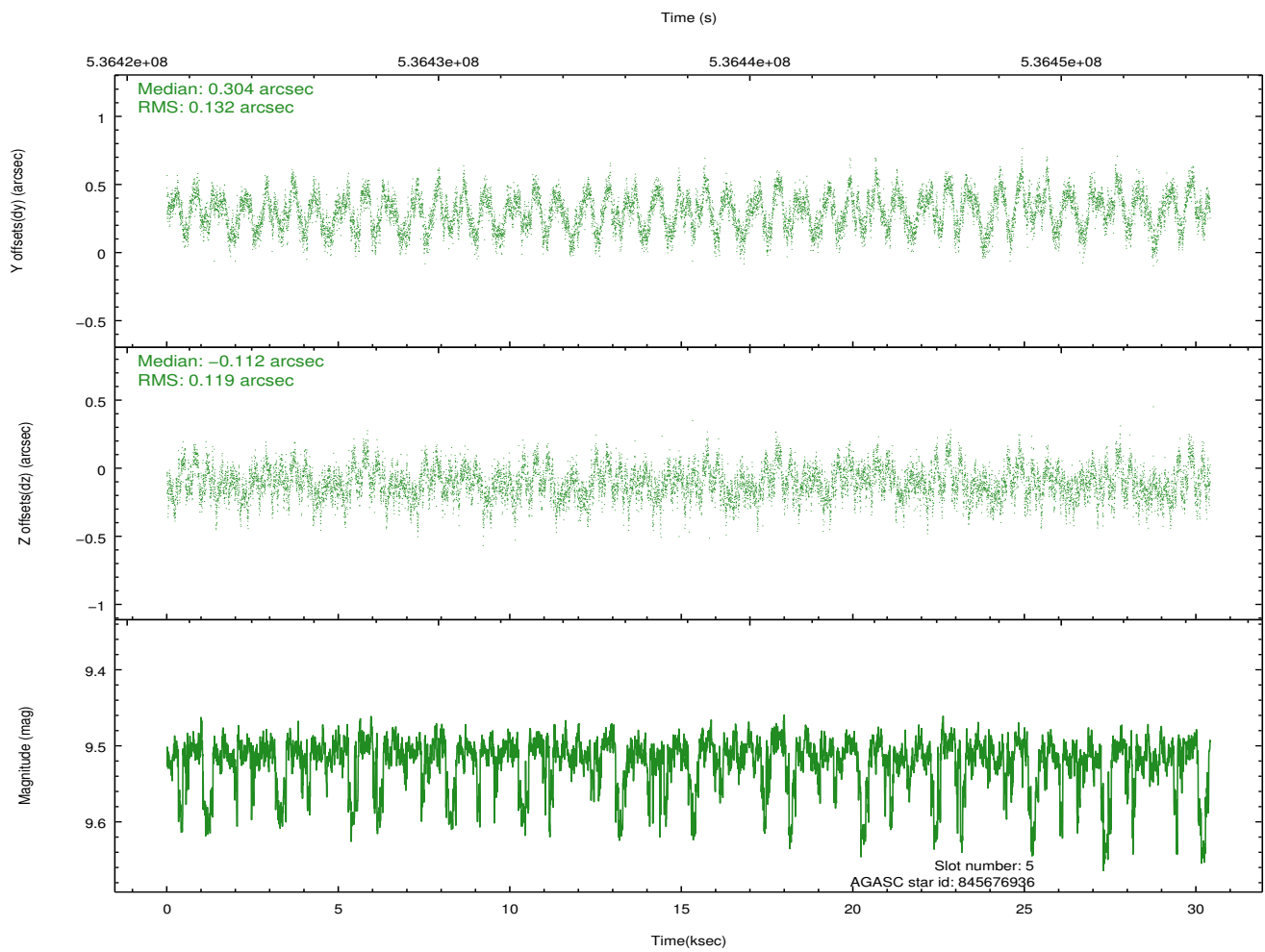
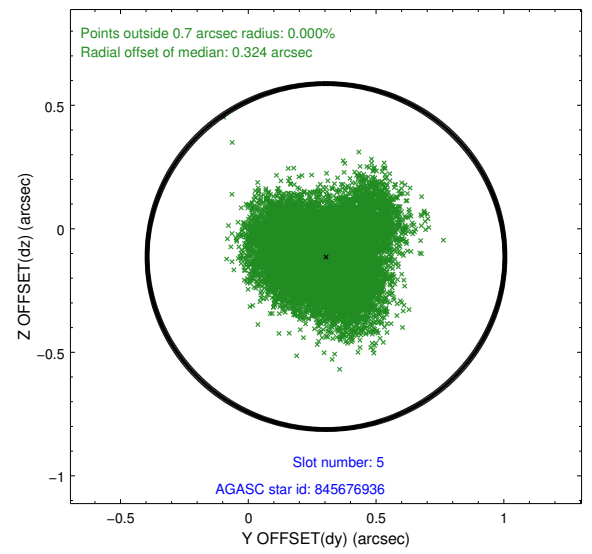
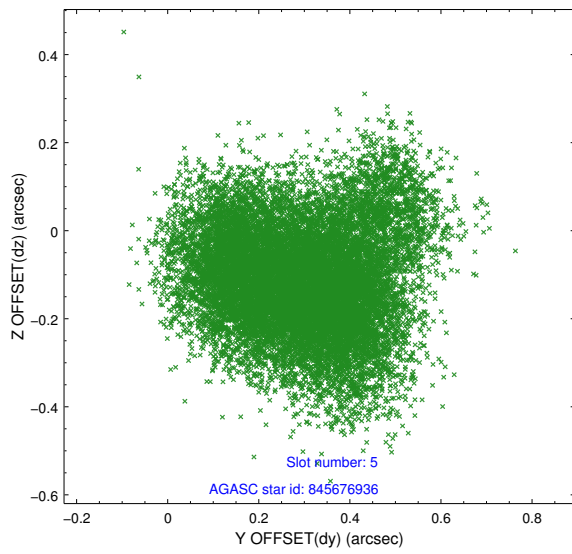
### 2.4.1 Slot 3



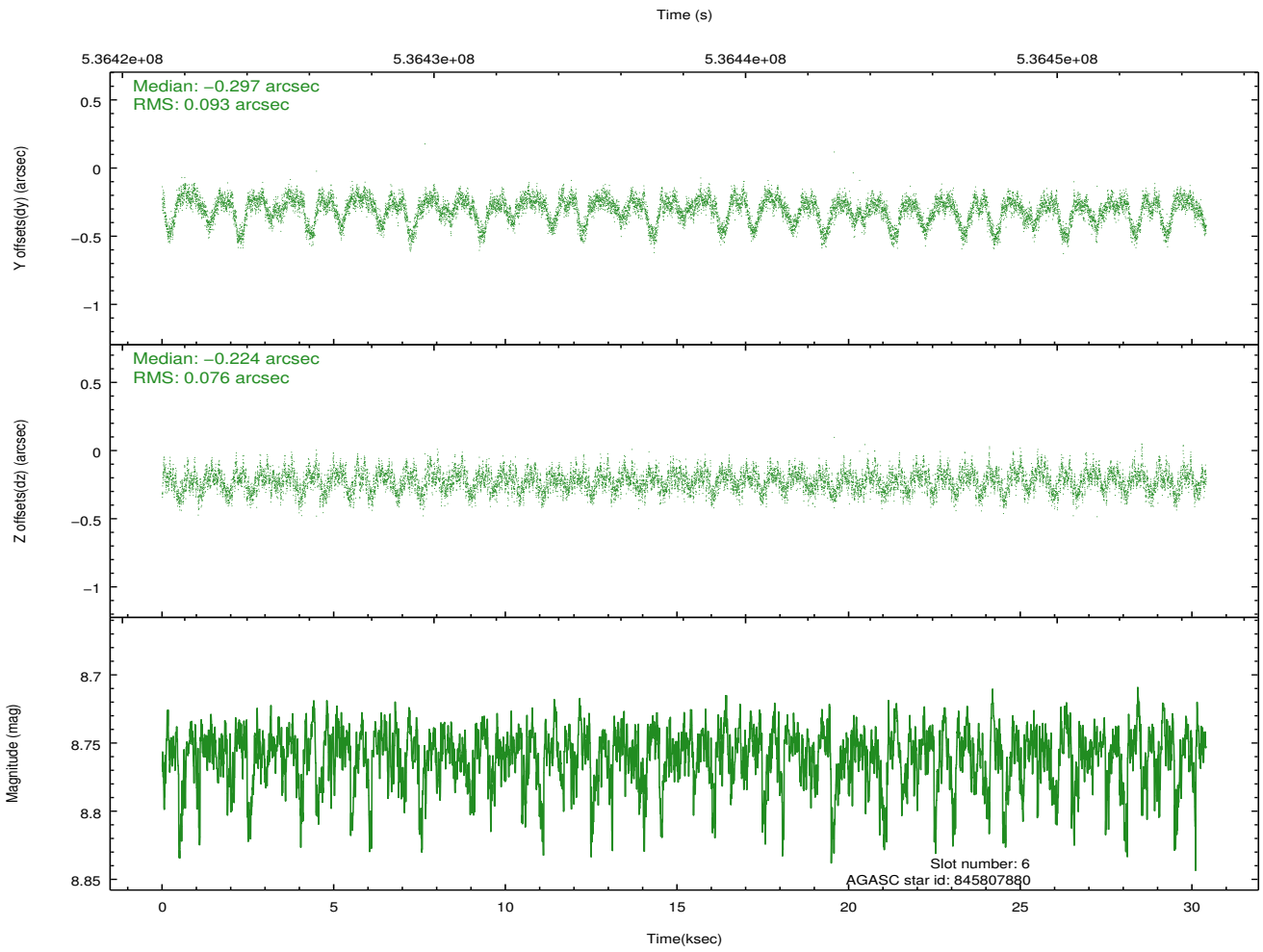
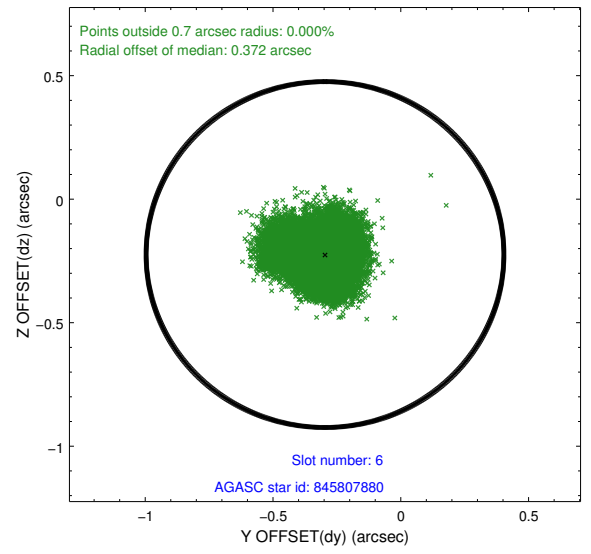
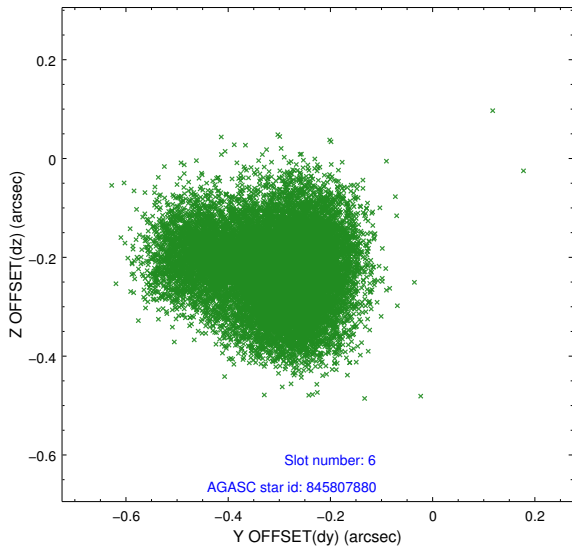
## 2.4.2 Slot 4



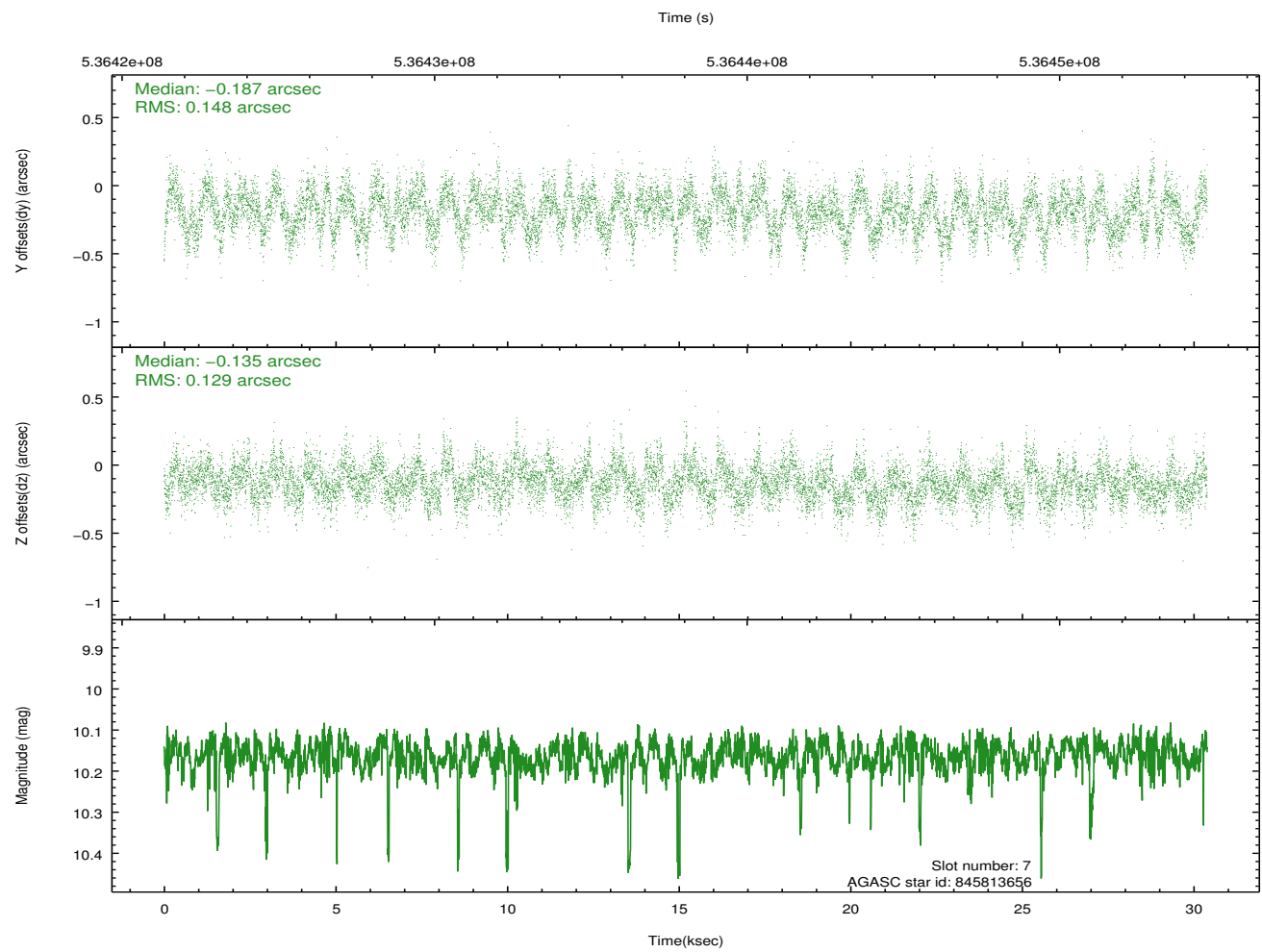
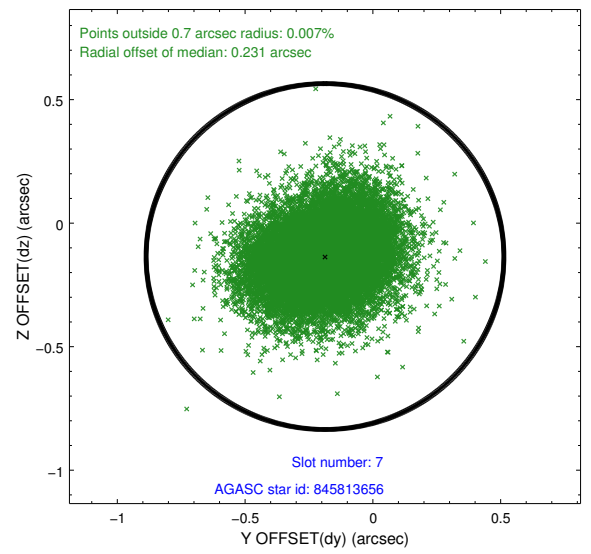
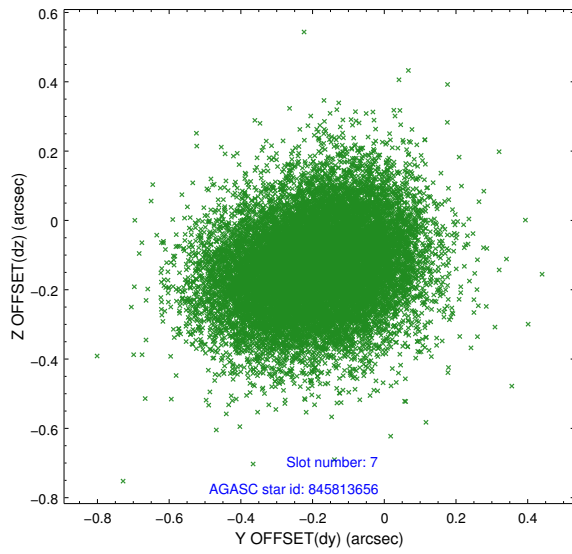
### 2.4.3 Slot 5



### 2.4.4 Slot 6

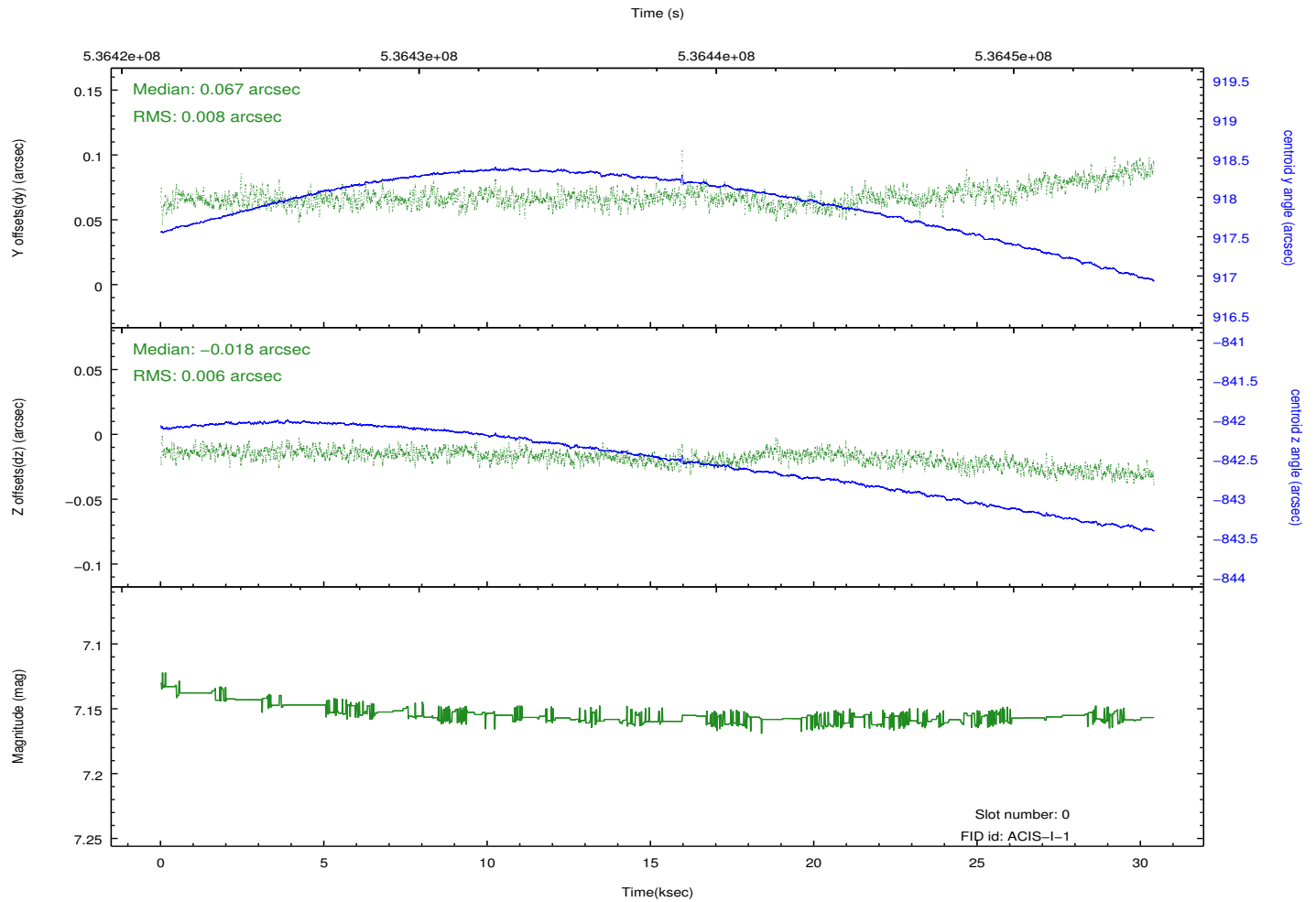
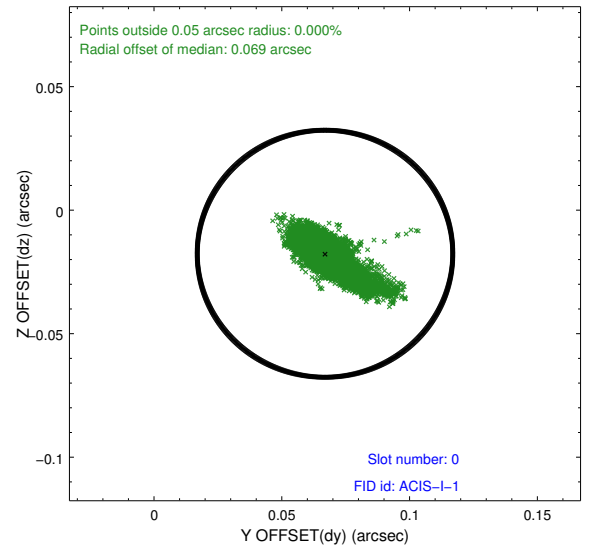
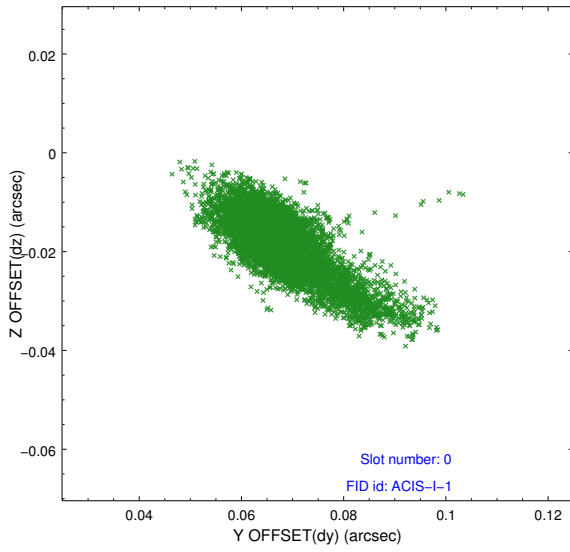


## 2.4.5 Slot 7

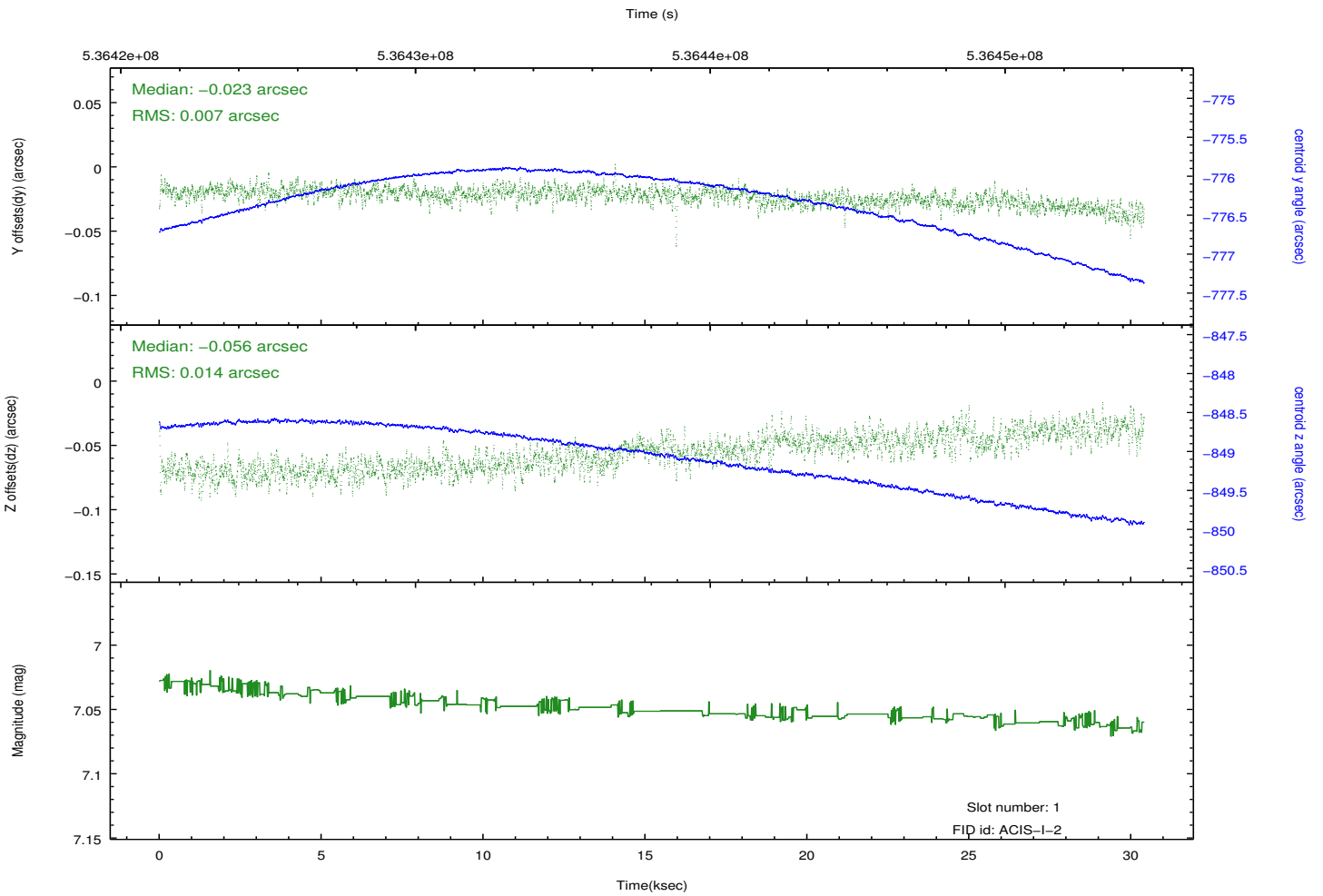
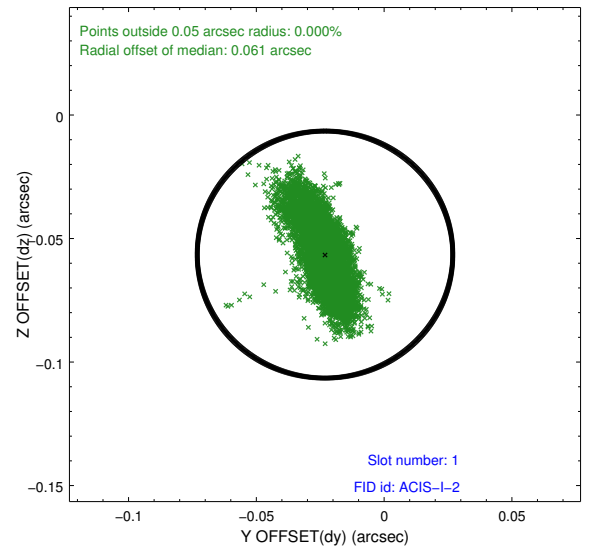
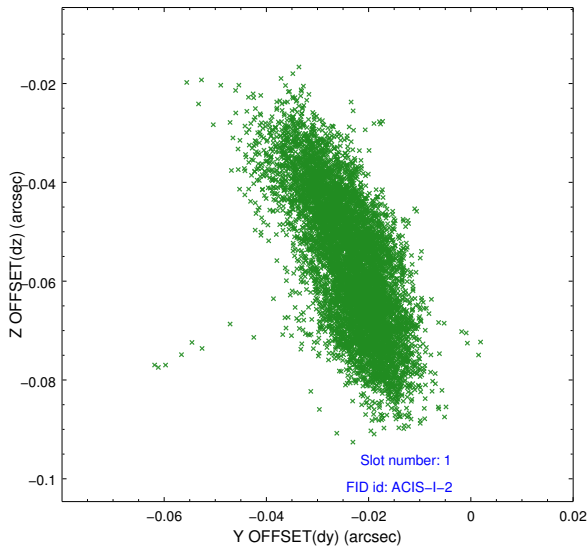


## 2.5 FID Slots

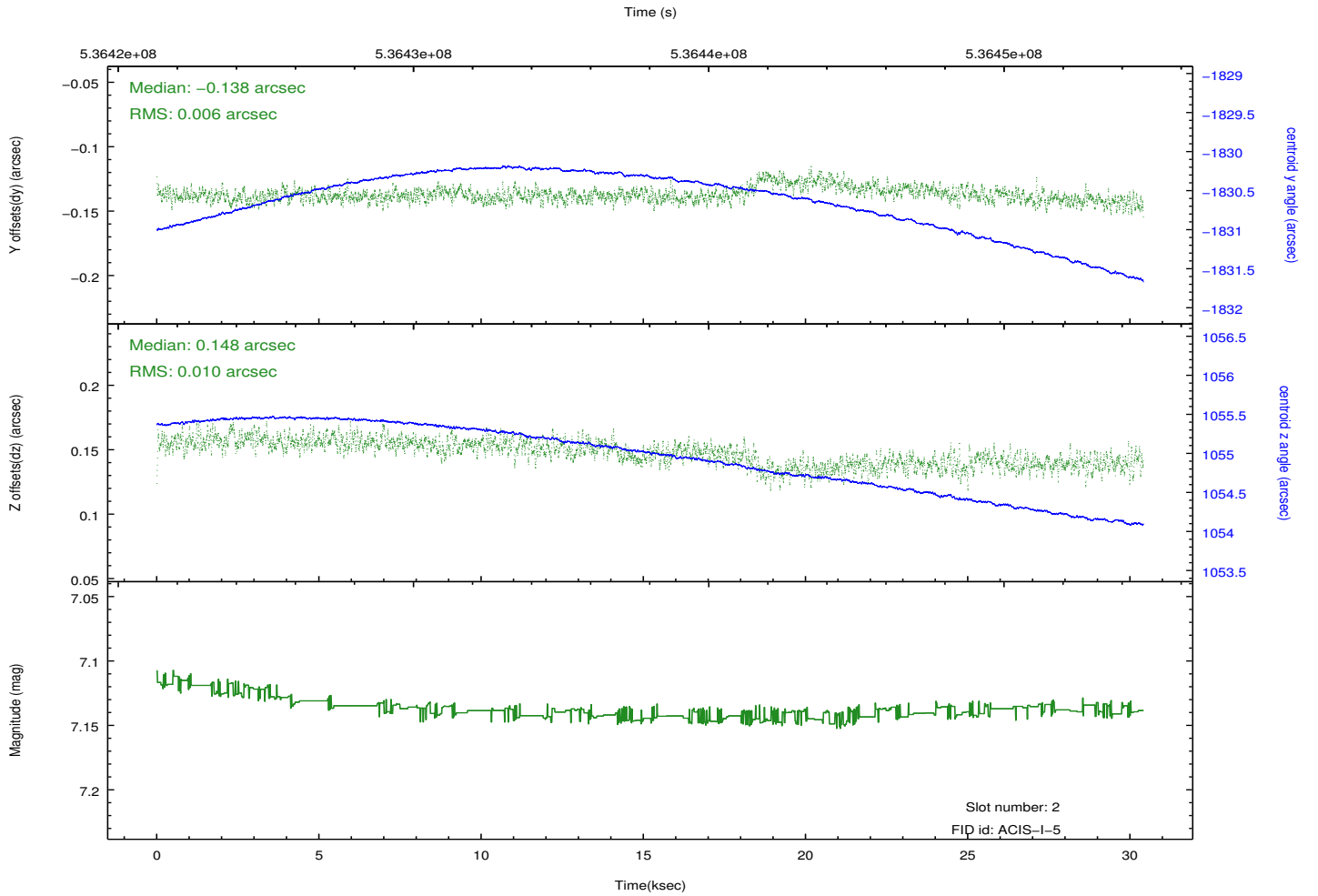
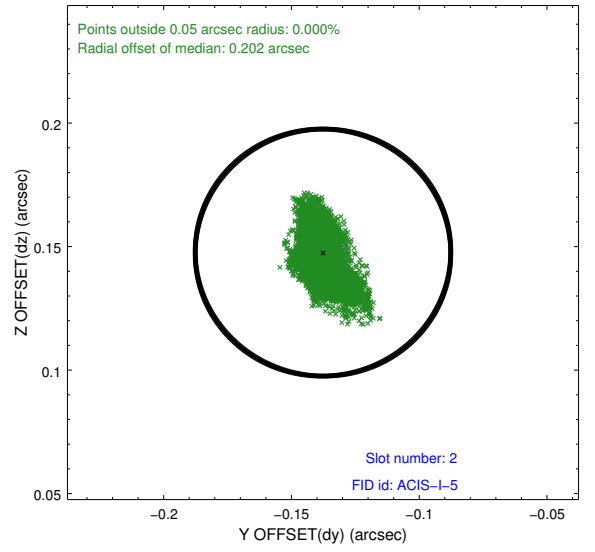
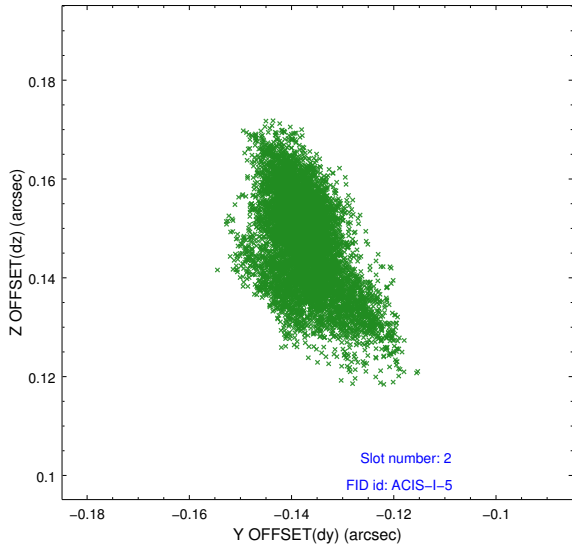
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.373759223223

### A.2 Comments