

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13548 - L2 Version 2  
Chandra X-Ray Center

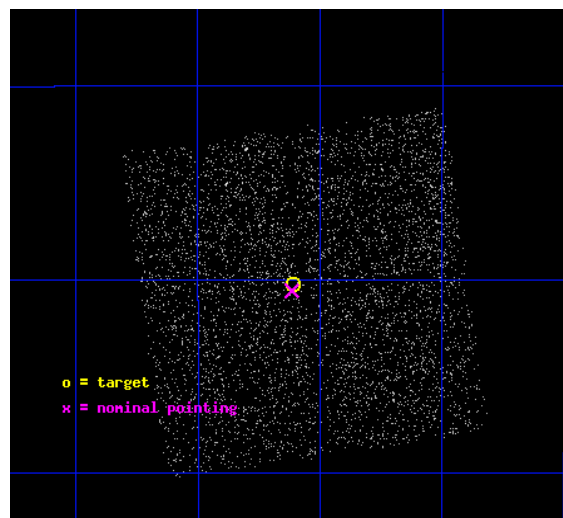
L2 Processing Date : Feb 25 2012

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# 1 Front

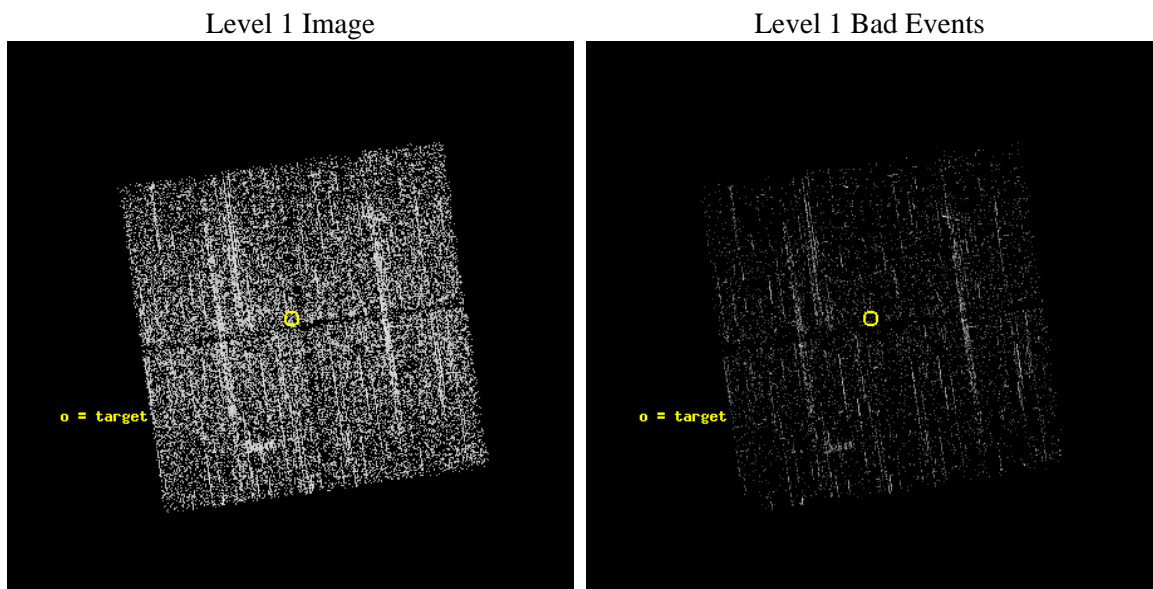
seq_num	401324	Sequence number
obs_id	13548	Observation id
title	Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr P Jonker	Principal investigator
object	GBS13-2	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.901883	Observer's specified target RA [deg]
dec_targ	-31.504437	Observer's specified target Dec [deg]
ra_nom	266.90385147281	Nominal RA [deg]
dec_nom	-31.509710918916	Nominal Dec [deg]
roll_nom	261.89087344621	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1970.5898122191	Sum of GTIs [s]
livetime	1944.8426055954	Livetime [s]
ontime0	1973.6076824665	Sum of GTIs [s]
ontime1	1961.0848810673	Sum of GTIs [s]
ontime2	1970.5488020778	Sum of GTIs [s]
ontime3	1970.5898122191	Sum of GTIs [s]
l2events	5065	Number of level 2 events



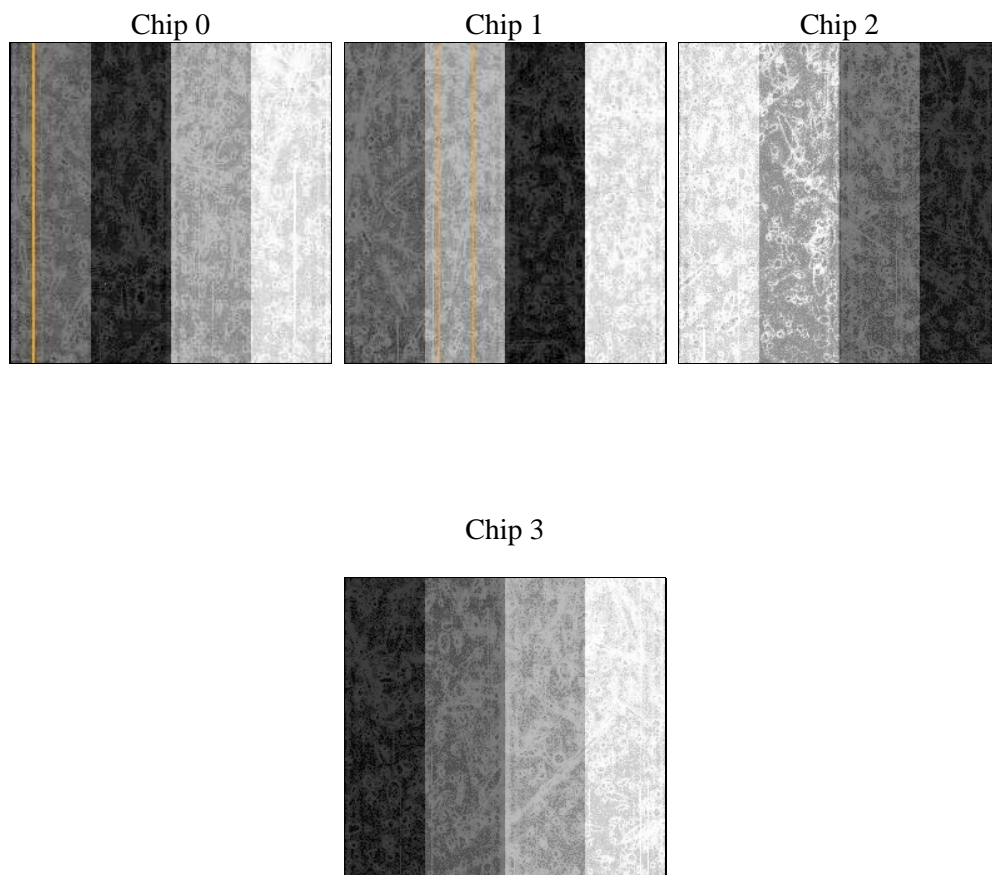
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1970.5898122191	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	1973.6076824665	Sum of GTIs [s]
date	2012-02-26T01:18:34	Date and time of file creation	ontime1	1961.0848810673	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1970.5488020778	Sum of GTIs [s]
			ontime3	1970.5898122191	Sum of GTIs [s]
			l1events	43886	Number of level 1 events

### 2.1.4 Events

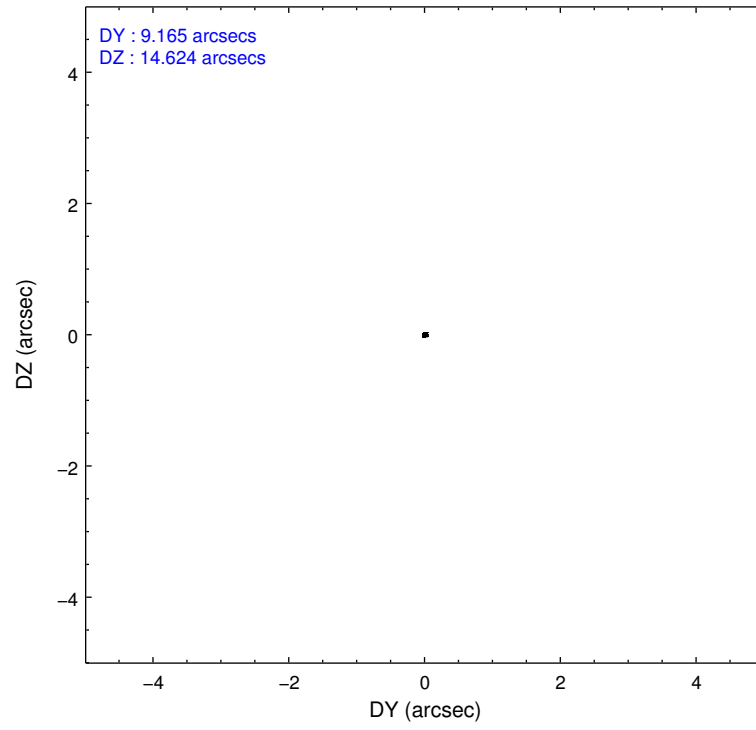
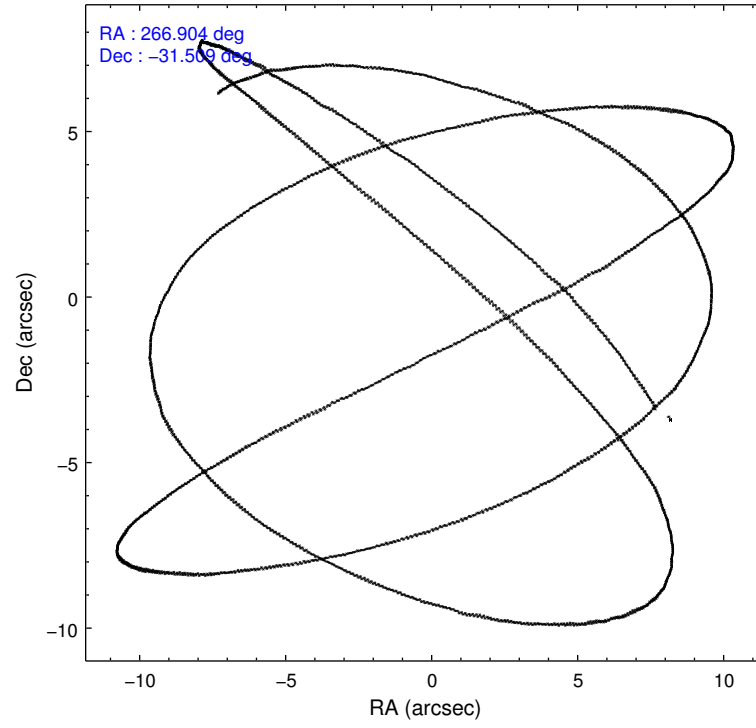
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	10817	10097	11883	11089
rejected events	9271	8489	10494	9658
rejected %	85%	84%	88%	87%

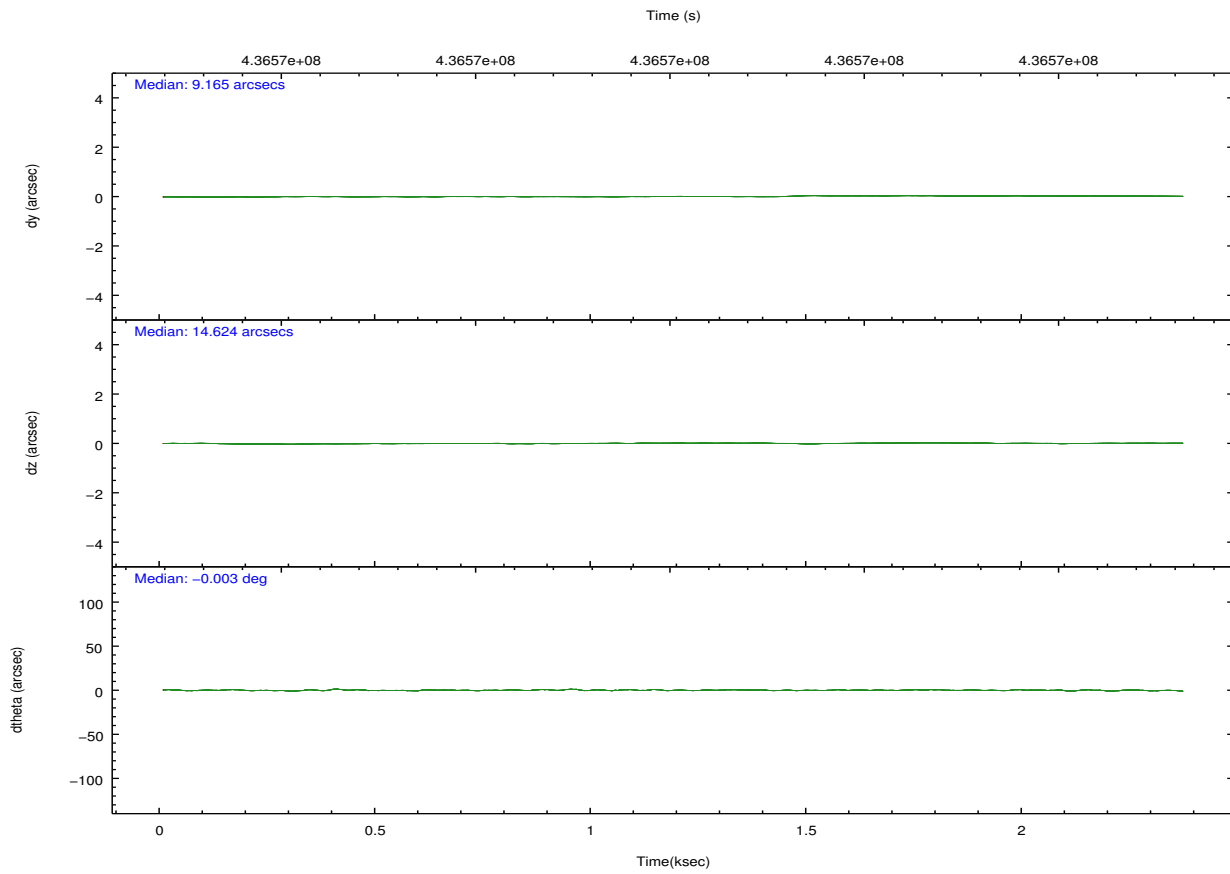
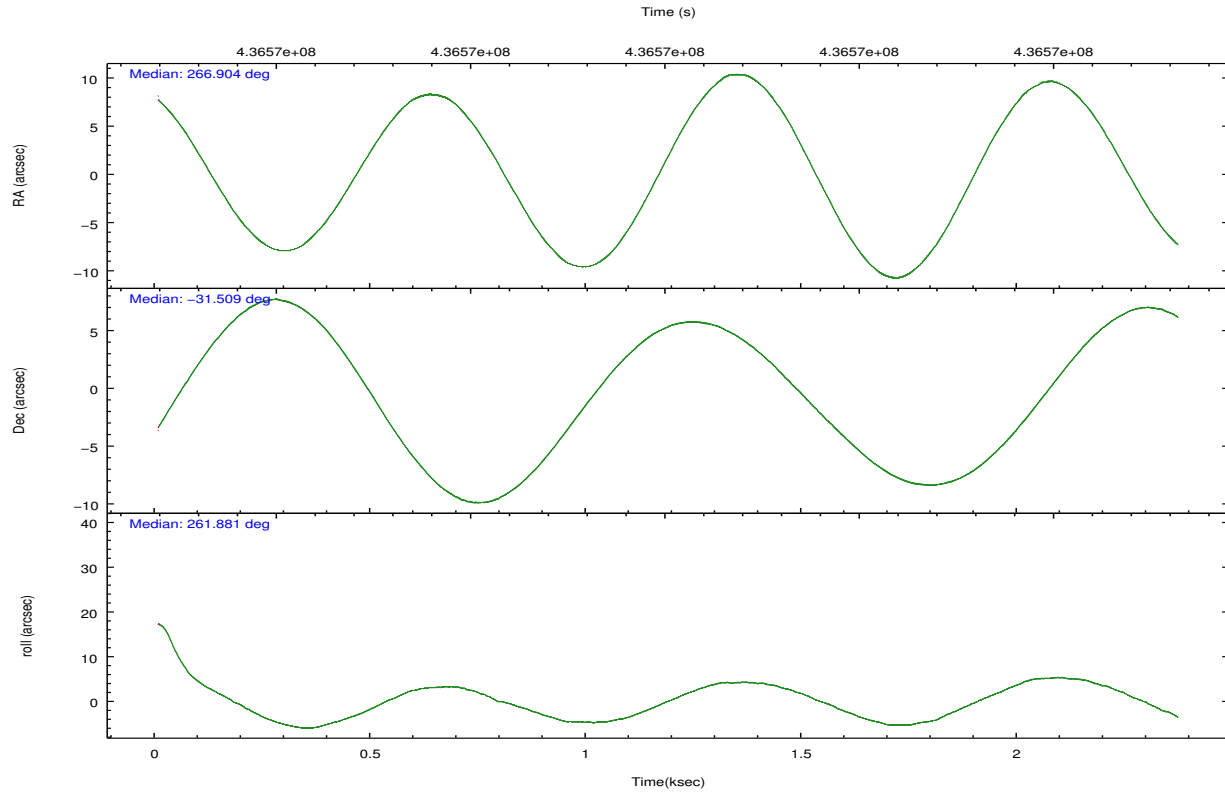
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	571	655	513	589
	5%	6%	4%	5%
grade 1 events	5	7	4	3
	0%	0%	0%	0%
grade 2 events	408	349	357	311
	3%	3%	3%	2%
grade 3 events	140	124	141	140
	1%	1%	1%	1%
grade 4 events	122	178	145	150
	1%	1%	1%	1%
grade 5 events	514	518	486	592
	4%	5%	4%	5%
grade 6 events	310	315	239	245
	2%	3%	2%	2%
grade 7 events	8747	7951	9998	9059
	80%	78%	84%	81%

## 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	266.891680	266.9038514728124	Subarray requested	NONE	NONE
[deg] Pointing Dec	-31.484474	-31.50971091891628	Alternating exposures requested	N	N
[deg] Pointing Roll	261.675833	261.8908734462098	[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)	436570019.184000	436569643.40947			
Observation start date	2011-11-01T21:25:53	2011-11-01T21:20:43			
[s] Observation end time (MET)	436572199.184000	436572333.00961			
Observation end date	2011-11-01T22:02:13	2011-11-01T22:05:33			
Read mode	TIMED	TIMED			

## 2.3 Aspect





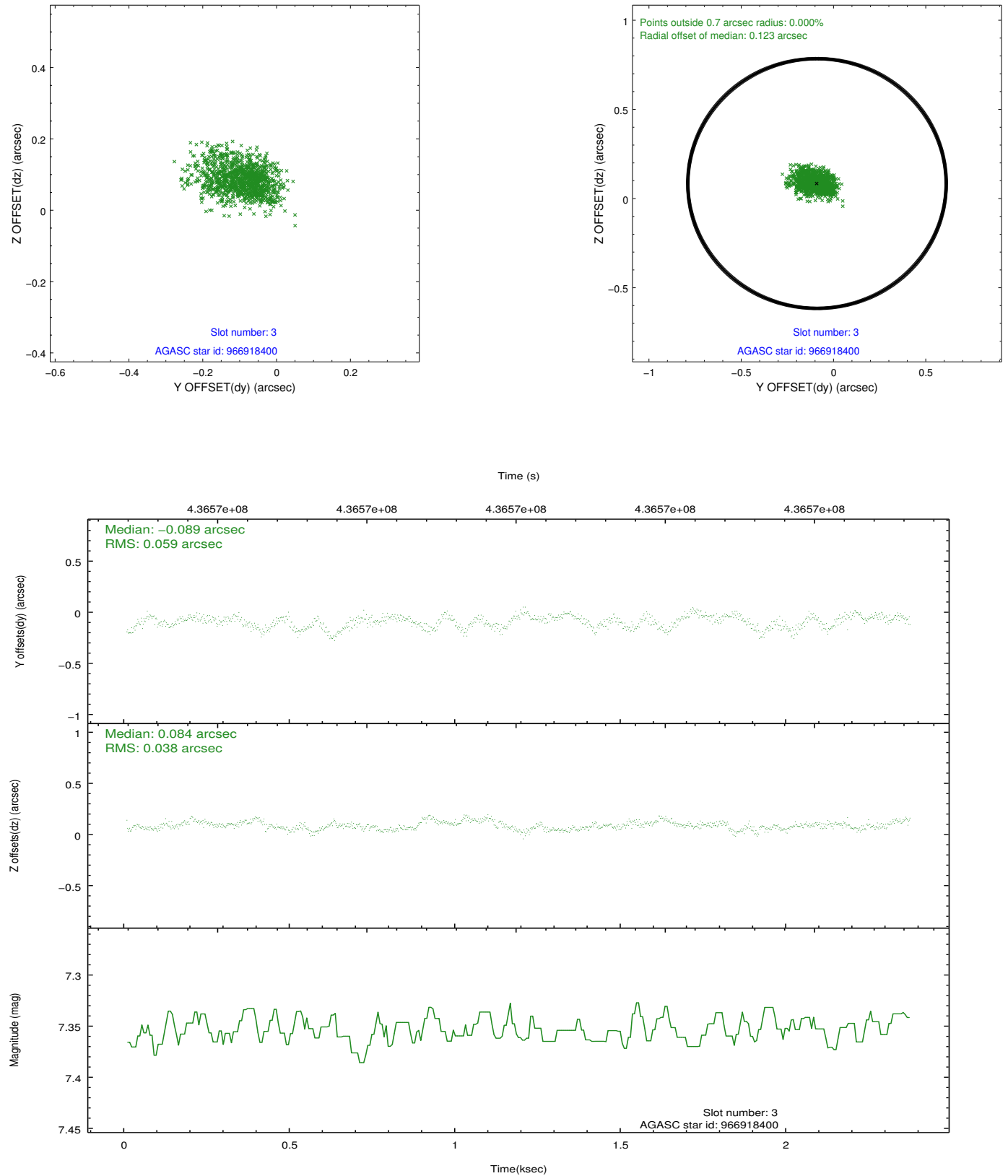
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	578	0.049	-0.009	0.006	0.010	0.000000	0.000000	930.51	-838.22
1	FID	ACIS-I-5	7.01	578	-0.203	0.058	0.006	0.009	0.000000	0.000000	-1816.35	1057.94
2	FID	ACIS-I-6	7.02	578	0.062	0.021	0.007	0.010	0.000000	0.000000	393.06	1705.53
3	GUIDE	966918400	7.35	1155	-0.089	0.084	0.073	0.122	267.537101	-30.960086	-2149.86	1699.26
4	GUIDE	966925512	8.27	1155	0.040	0.047	0.057	0.091	266.373606	-31.056700	-1288.94	-1801.65
5	GUIDE	967450832	9.11	1155	0.090	-0.281	0.104	0.169	266.078096	-31.879979	1778.63	-2254.57
6	GUIDE	966926896	9.20	1151	0.178	-0.075	0.085	0.143	266.197771	-31.663459	955.29	-2011.02
7	GUIDE	967060208	8.62	1152	-0.211	0.223	0.104	0.166	267.770250	-30.970101	-2212.88	2415.49

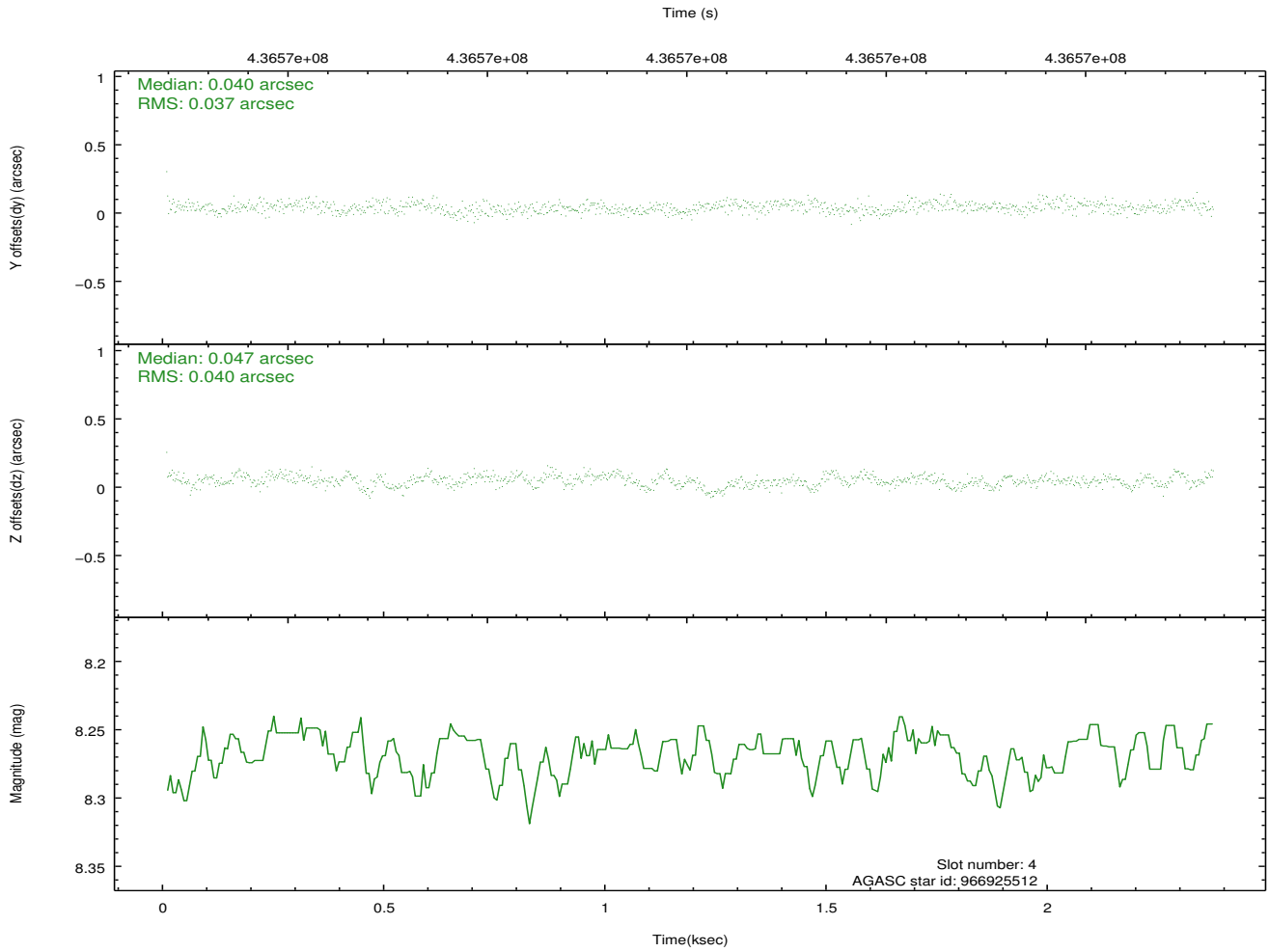
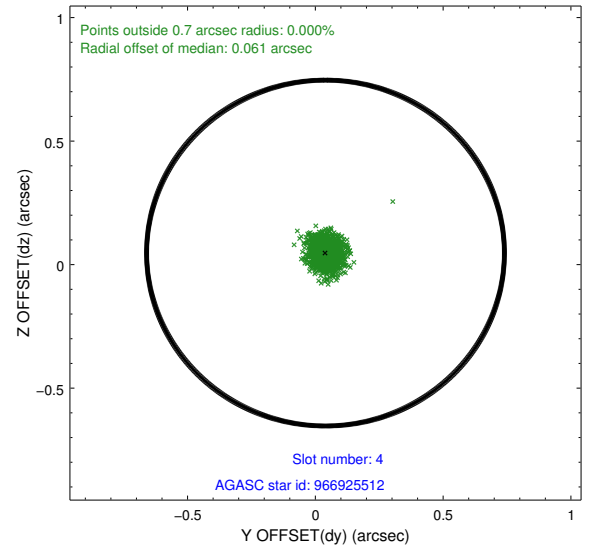
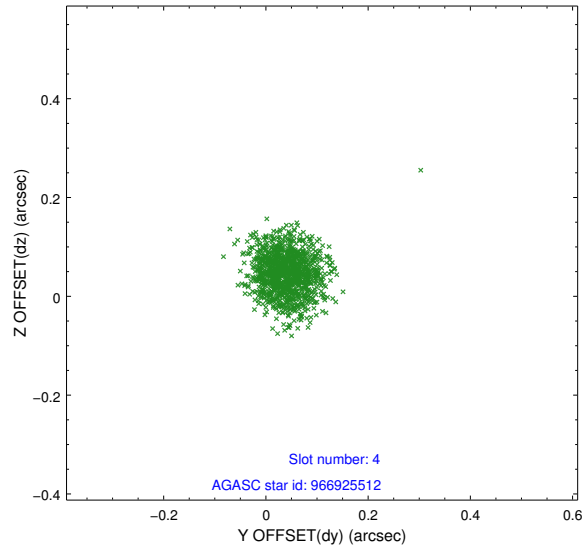


## 2.4 Star Slots

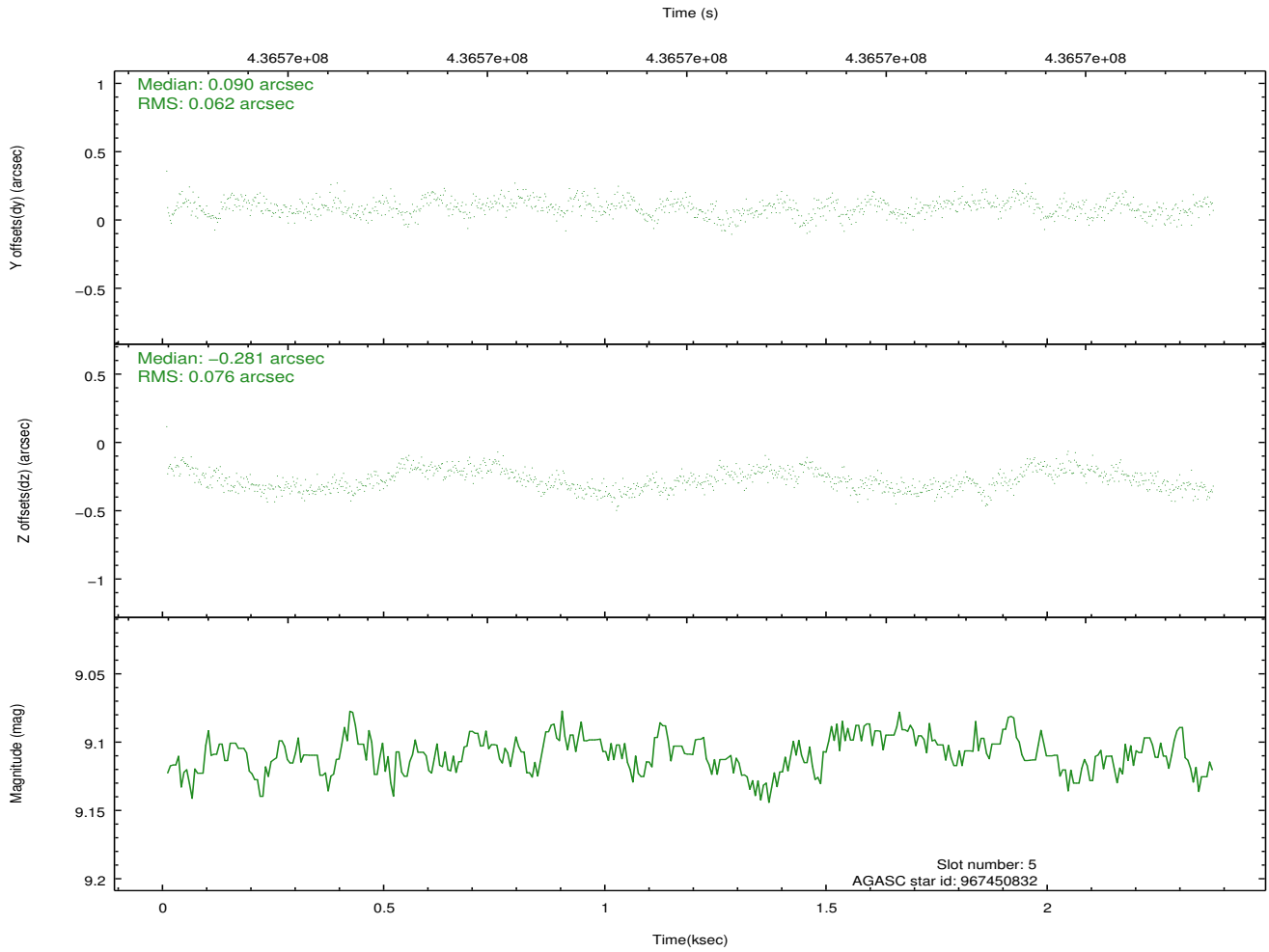
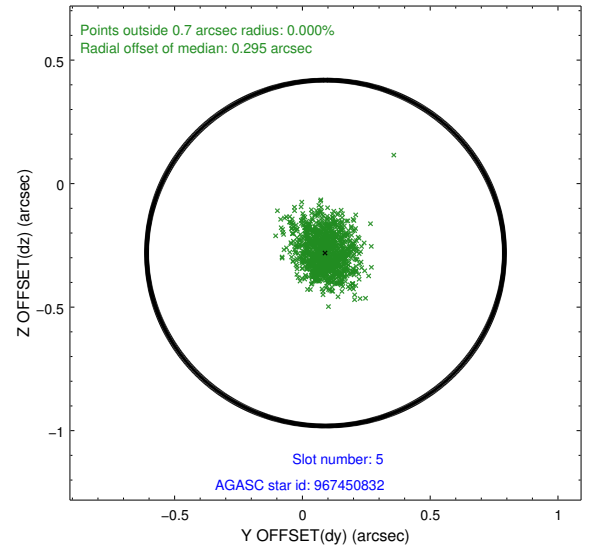
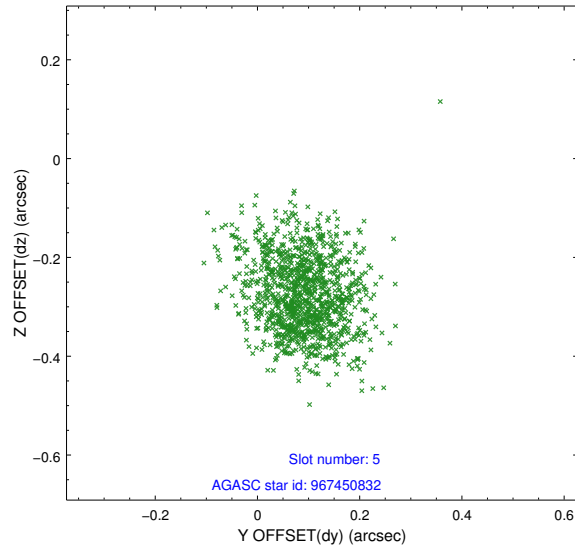
### 2.4.1 Slot 3



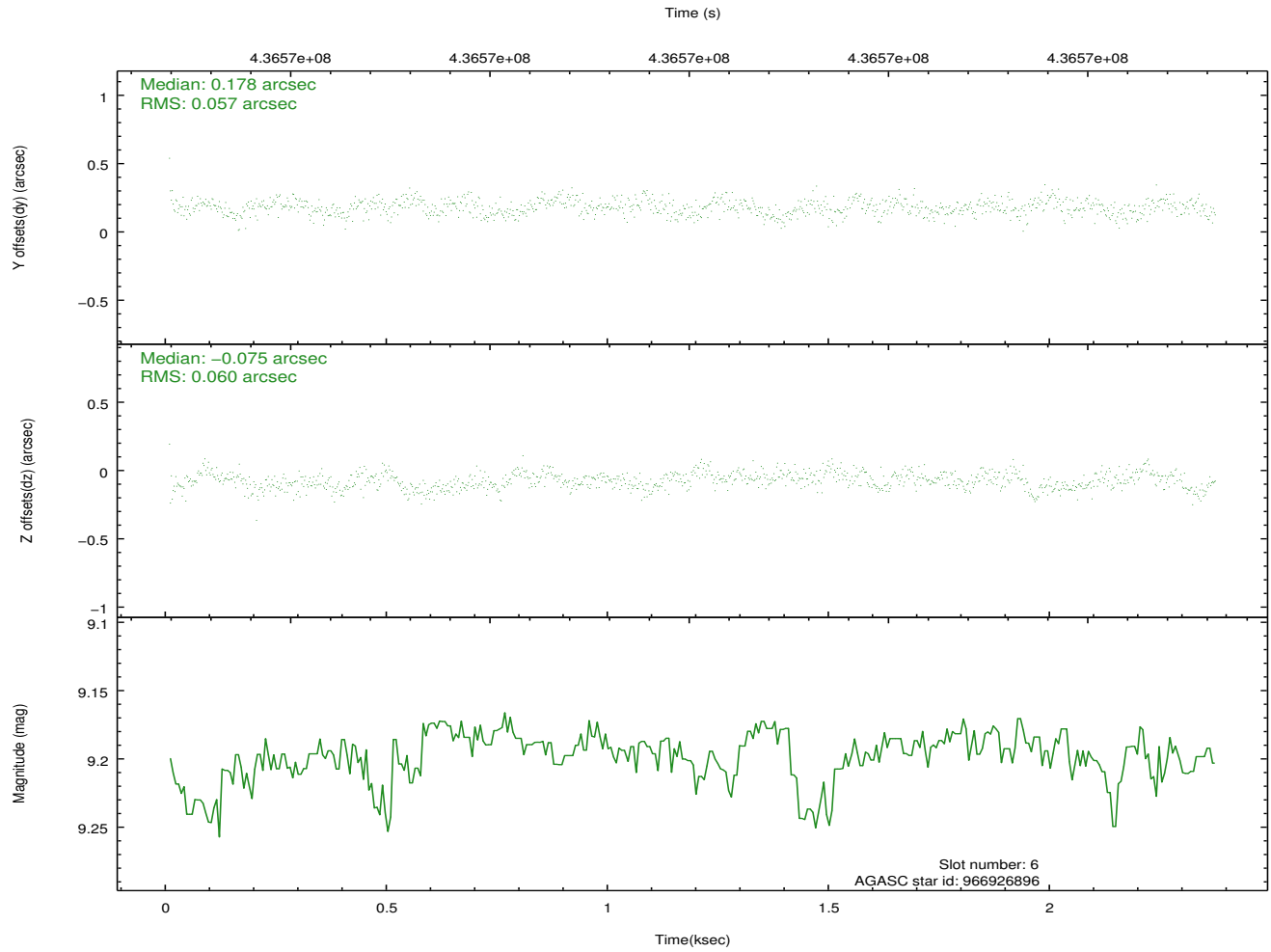
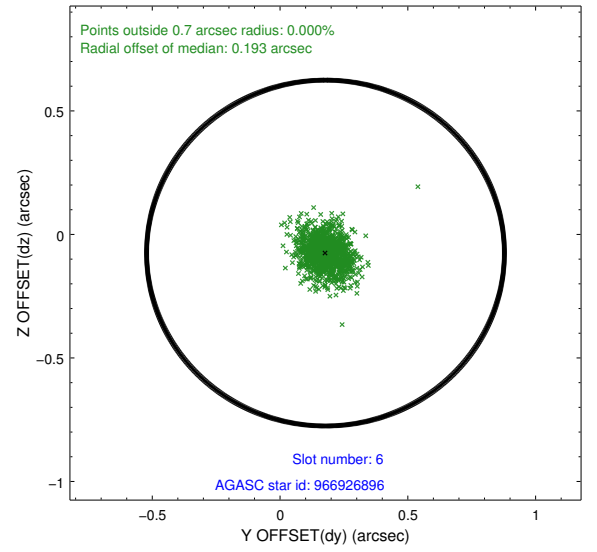
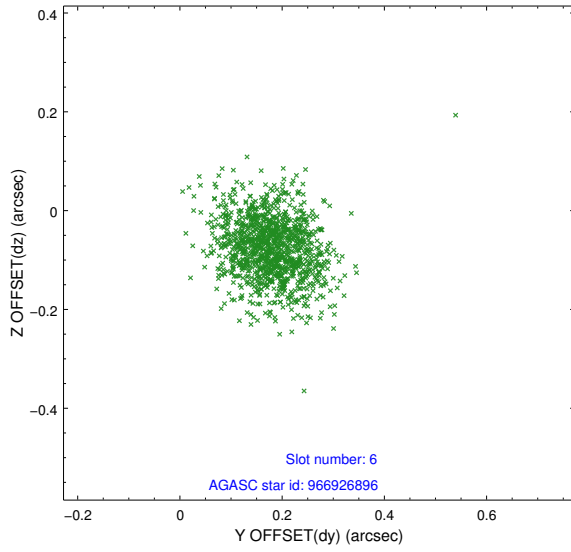
## 2.4.2 Slot 4



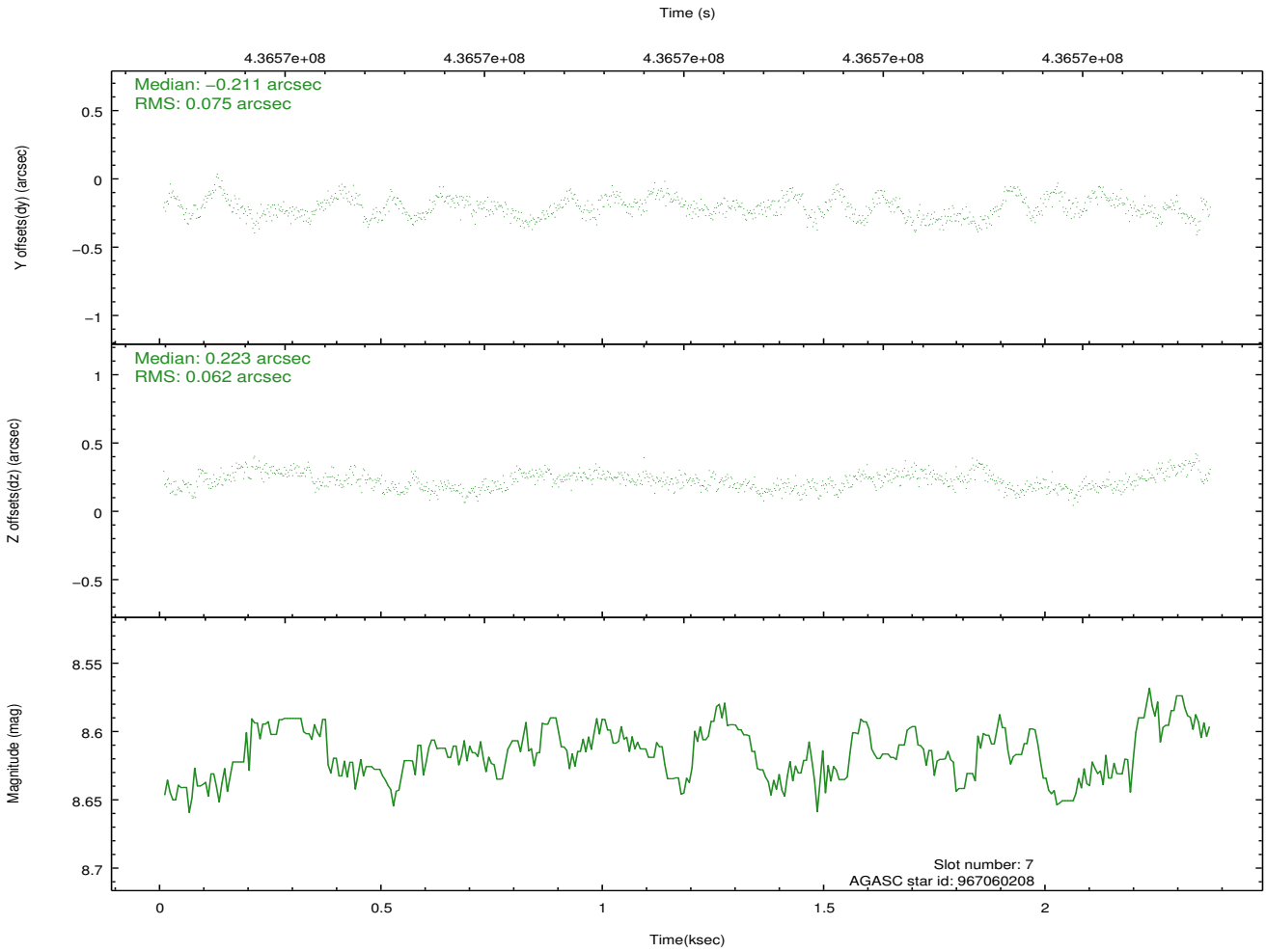
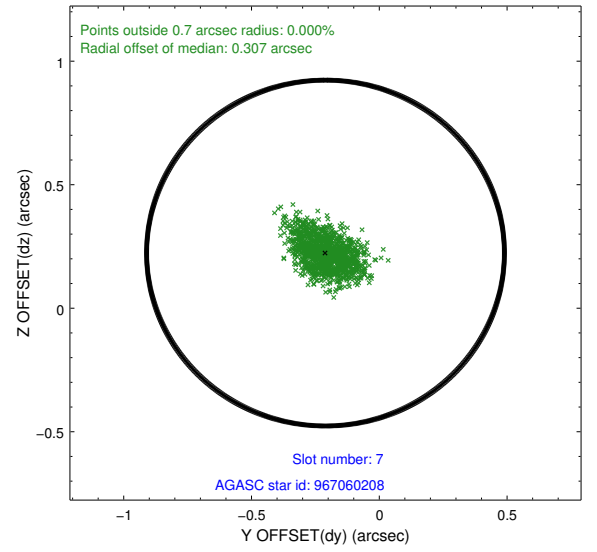
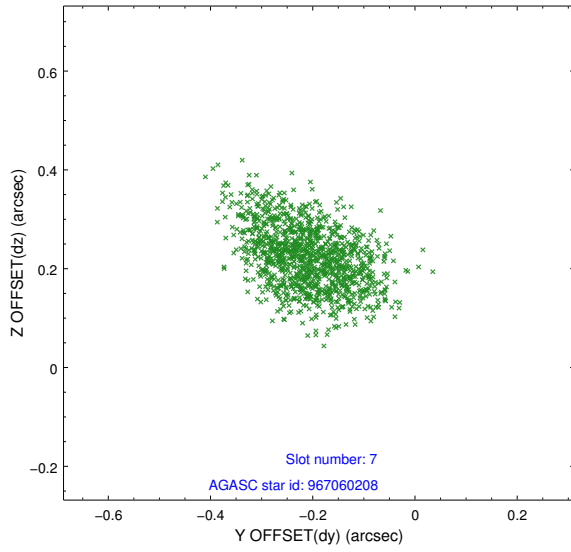
### 2.4.3 Slot 5



## 2.4.4 Slot 6

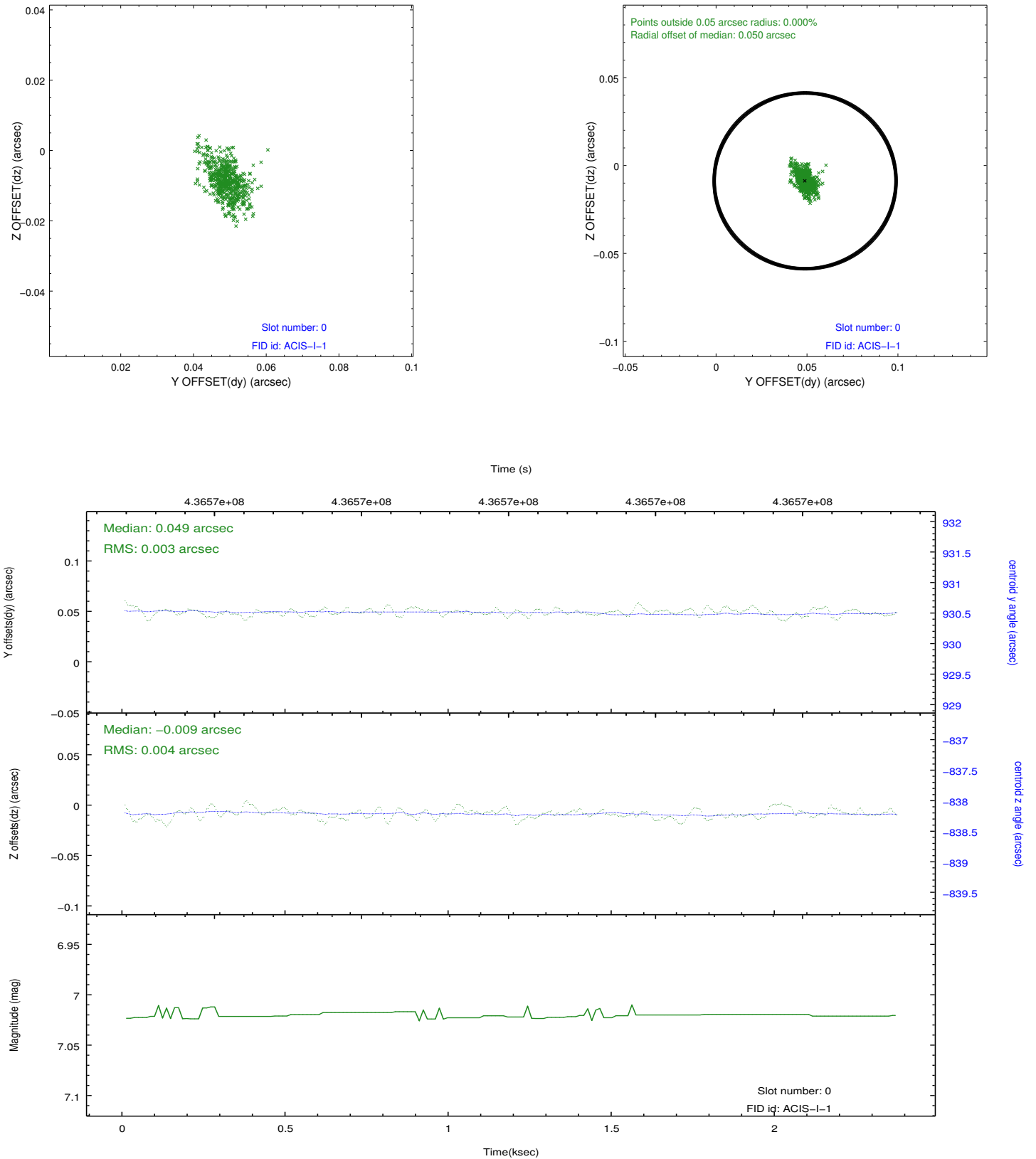


## 2.4.5 Slot 7

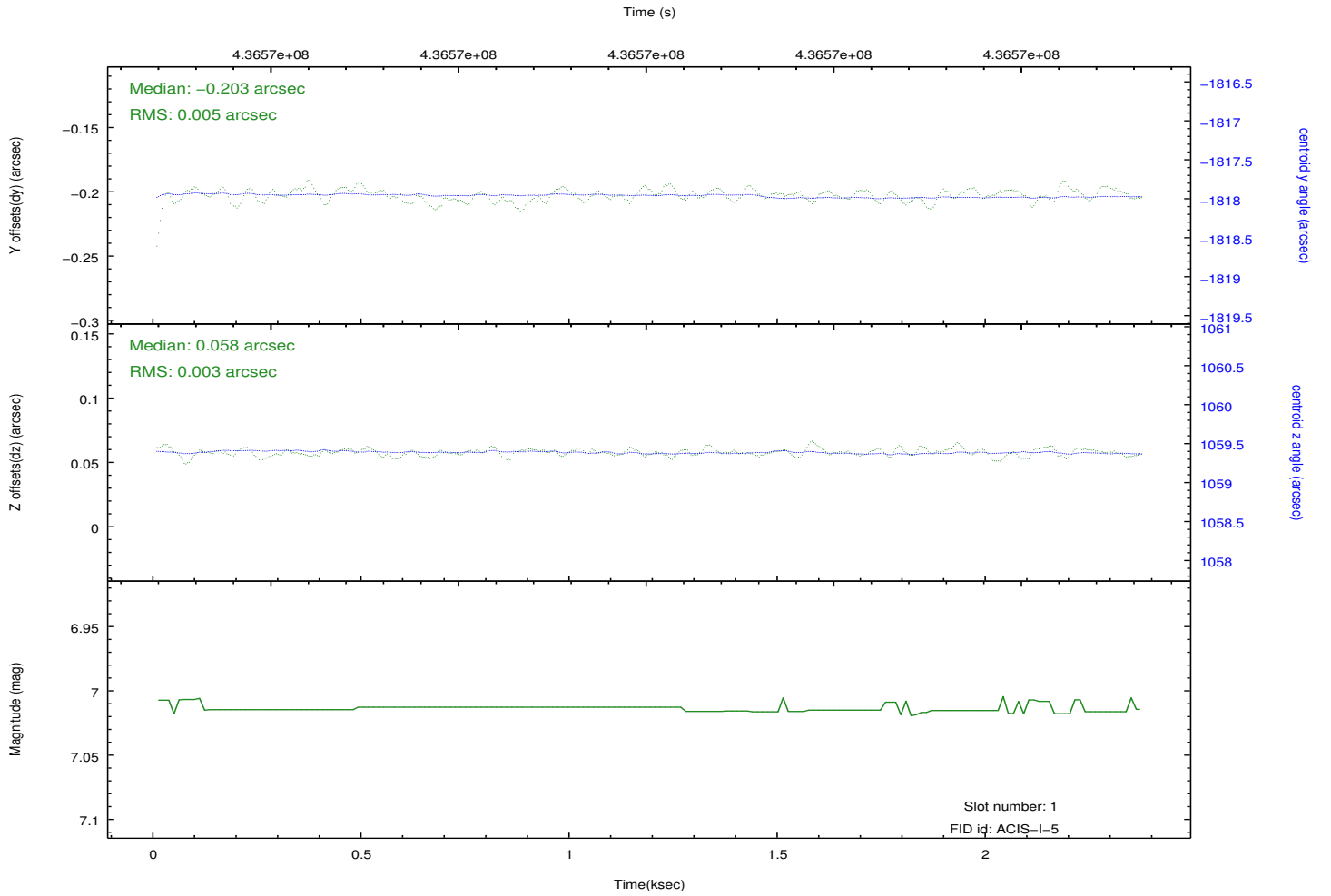
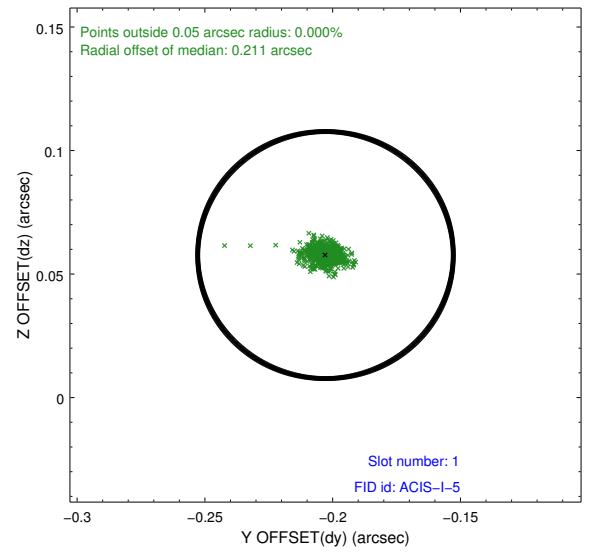
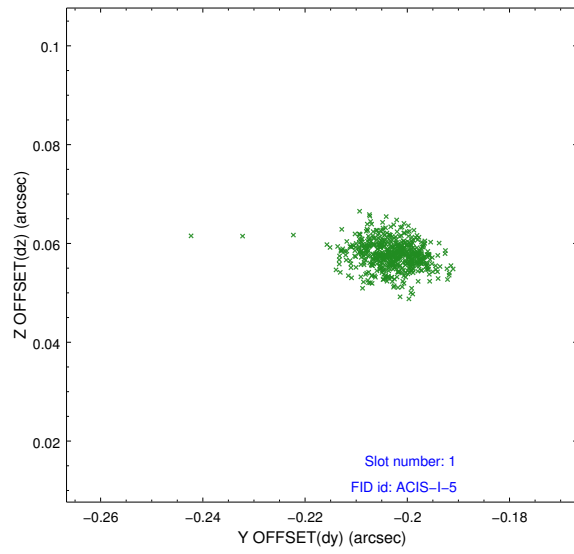


## 2.5 FID Slots

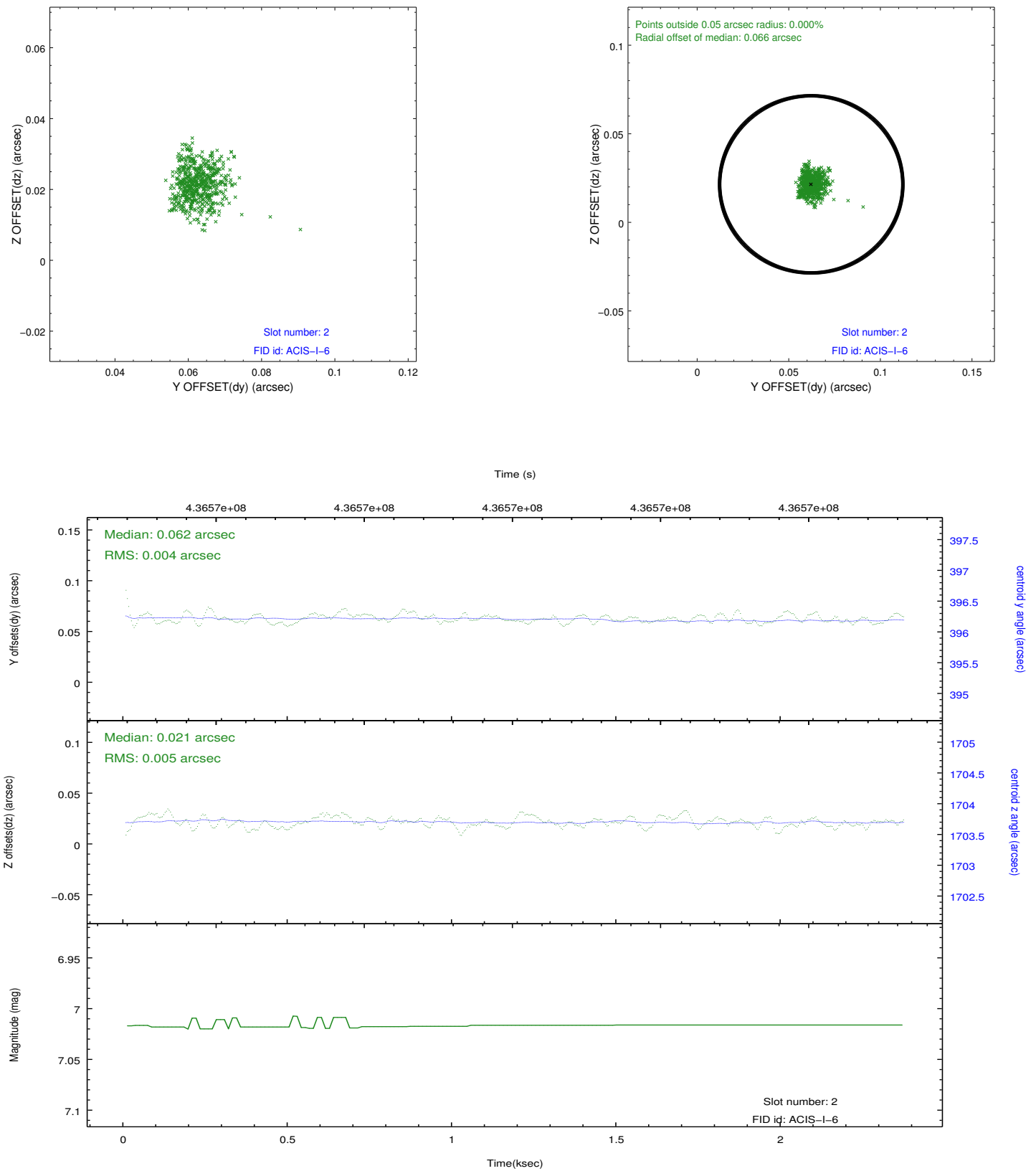
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9705898041725

### A.2 Comments

Joint Proposal: NOAO