

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13555 - L2 Version 2  
Chandra X-Ray Center

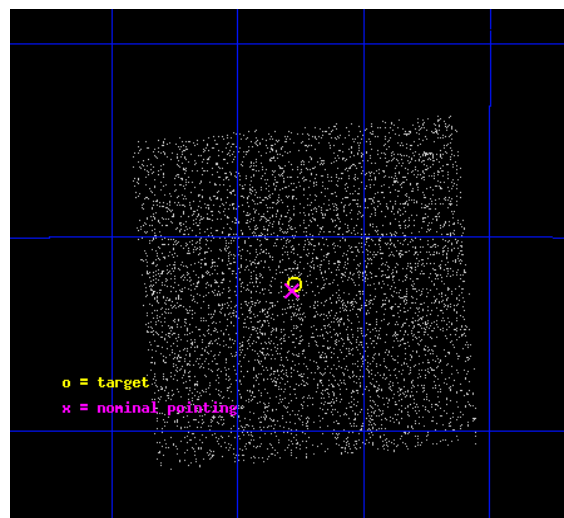
L2 Processing Date : Feb 26 2012

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# 1 Front

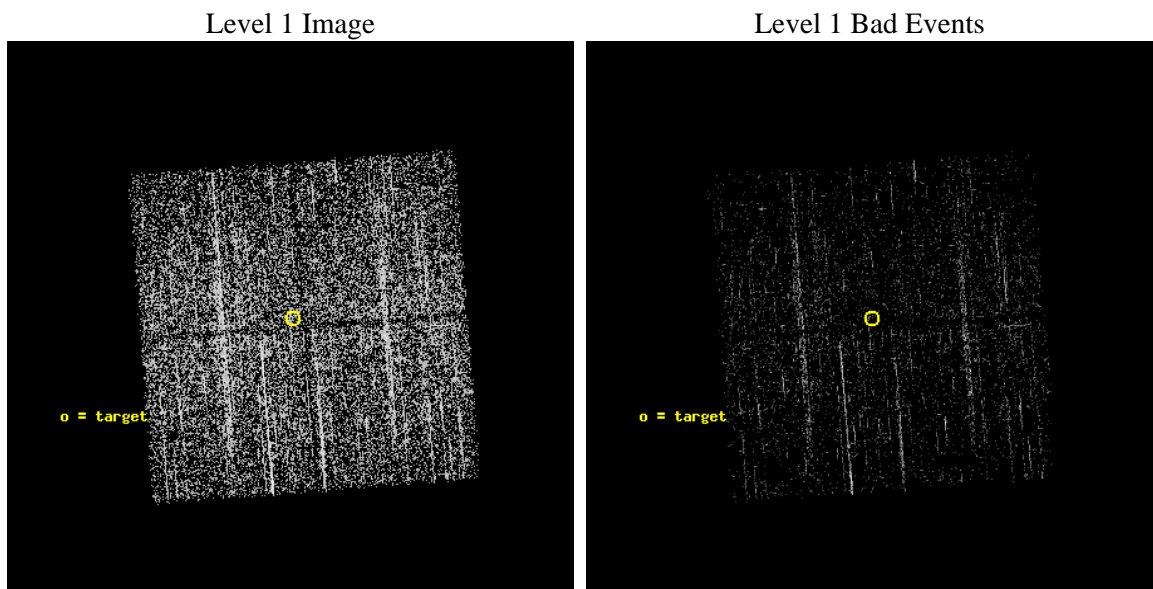
seq_num	401331	Sequence number
obs_id	13555	Observation id
title	Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr P Jonker	Principal investigator
object	GBS13-3	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	269.194032	Observer's specified target RA [deg]
dec_targ	-28.541175	Observer's specified target Dec [deg]
ra_nom	269.19645736782	Nominal RA [deg]
dec_nom	-28.546307233331	Nominal Dec [deg]
roll_nom	265.54898350261	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1971.6000151634	Sum of GTIs [s]
livetime	1945.8396094945	Livetime [s]
ontime0	1971.6000151634	Sum of GTIs [s]
ontime1	1971.6000151634	Sum of GTIs [s]
ontime2	1971.6000151634	Sum of GTIs [s]
ontime3	1971.6000151634	Sum of GTIs [s]
l2events	5700	Number of level 2 events



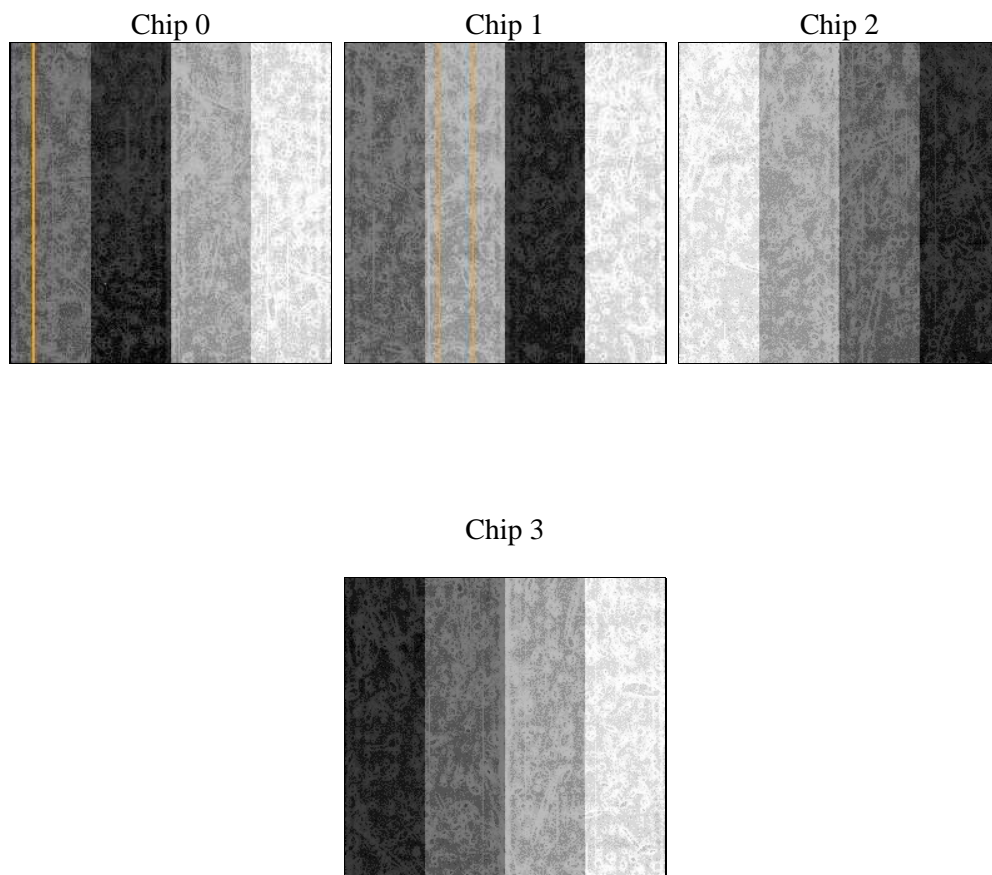
## 2 OBI

### 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	1971.6000151634	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	1971.6000151634	Sum of GTIs [s]
date	2012-02-26T02:33:48	Date and time of file creation	ontime1	1971.6000151634	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1971.6000151634	Sum of GTIs [s]
			ontime3	1971.6000151634	Sum of GTIs [s]
			l1events	44652	Number of level 1 events

### 2.1.4 Events

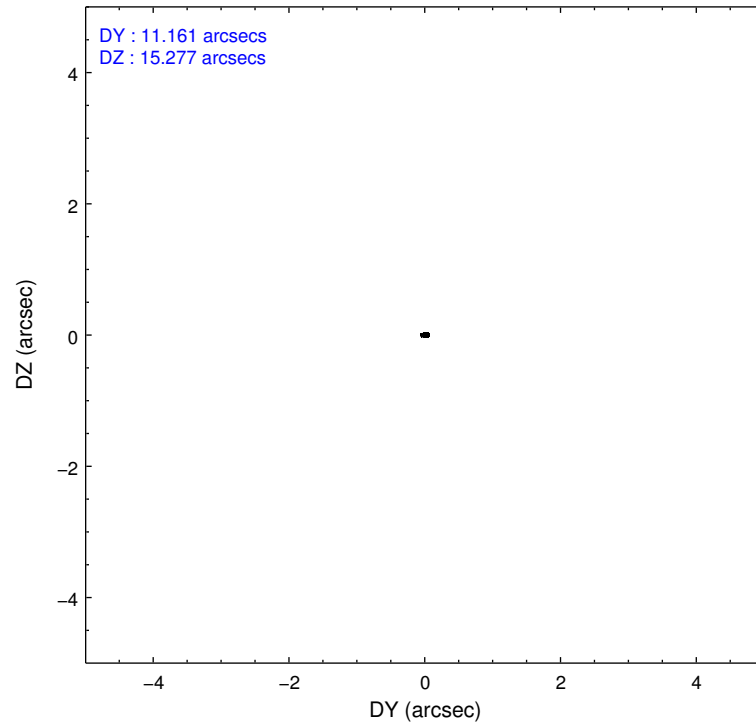
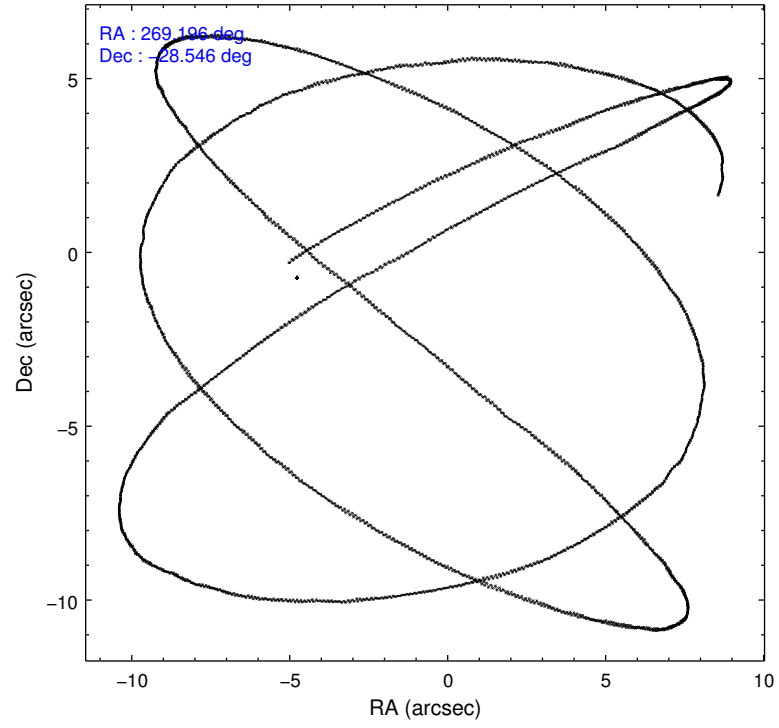
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	11297	10517	12202	10636
rejected events	9574	8743	10579	9026
rejected %	84%	83%	86%	84%

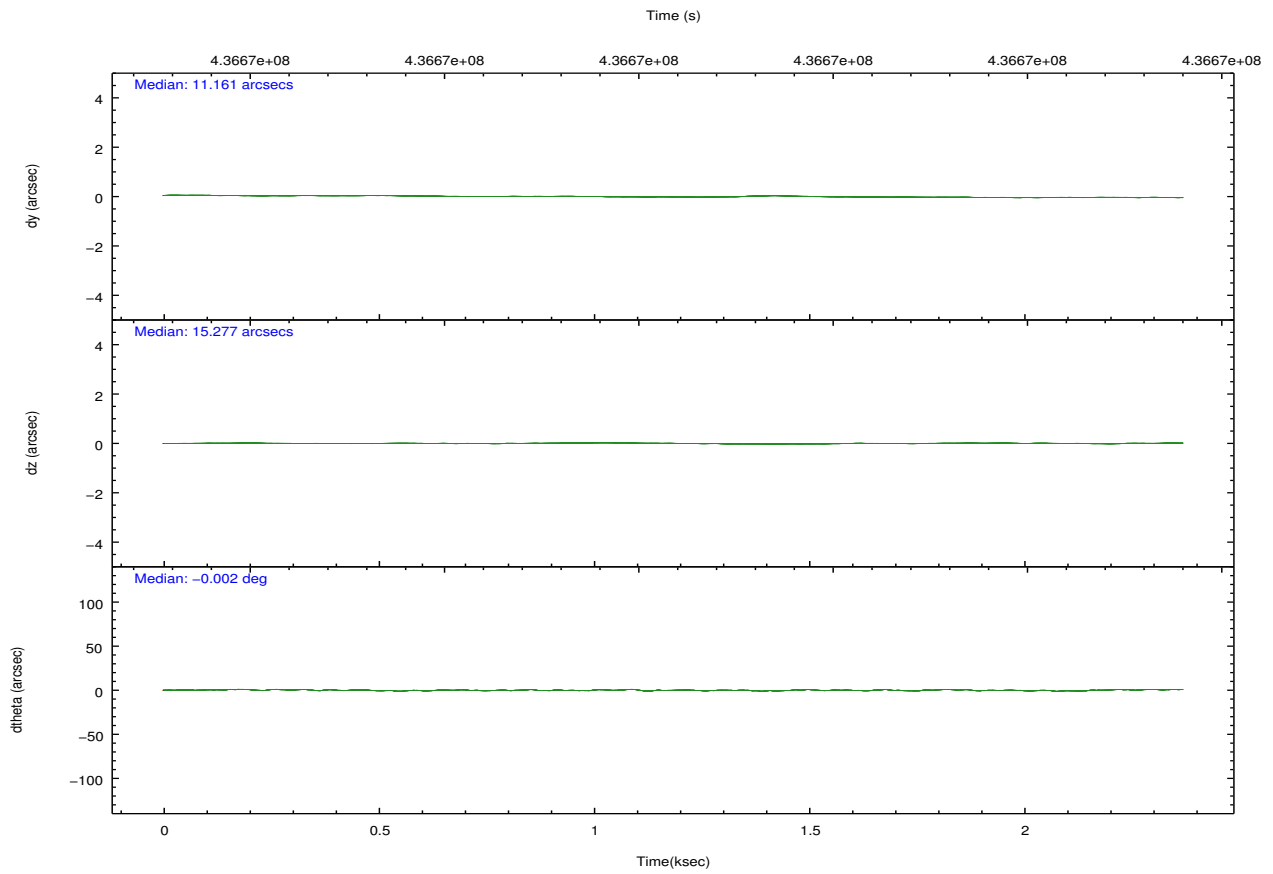
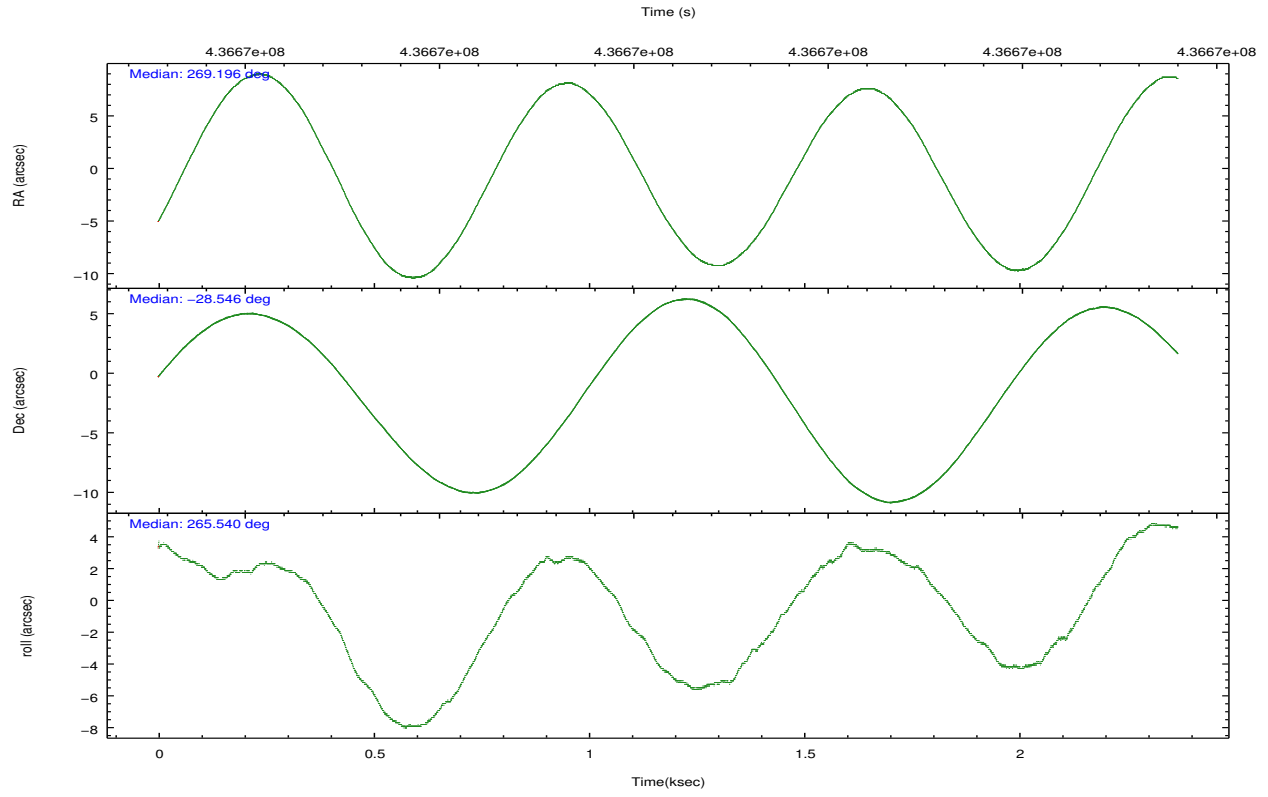
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	768	781	689	714
	6%	7%	5%	6%
grade 1 events	8	10	6	9
	0%	0%	0%	0%
grade 2 events	371	372	363	300
	3%	3%	2%	2%
grade 3 events	141	148	144	156
	1%	1%	1%	1%
grade 4 events	154	150	154	163
	1%	1%	1%	1%
grade 5 events	558	552	515	539
	4%	5%	4%	5%
grade 6 events	297	327	276	279
	2%	3%	2%	2%
grade 7 events	9000	8177	10055	8476
	79%	77%	82%	79%

## 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	269.182703	269.1964573678209	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.521806	-28.54630723333112	Alternating exposures requested	N	N
[deg] Pointing Roll	265.333742	265.5489835026124	[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)	436668092.184000	436667716.43963			
Observation start date	2011-11-03T00:40:26	2011-11-03T00:35:16			
[s] Observation end time (MET)	436670272.184000	436670406.55227			
Observation end date	2011-11-03T01:16:46	2011-11-03T01:20:06			
Read mode	TIMED	TIMED			

## 2.3 Aspect





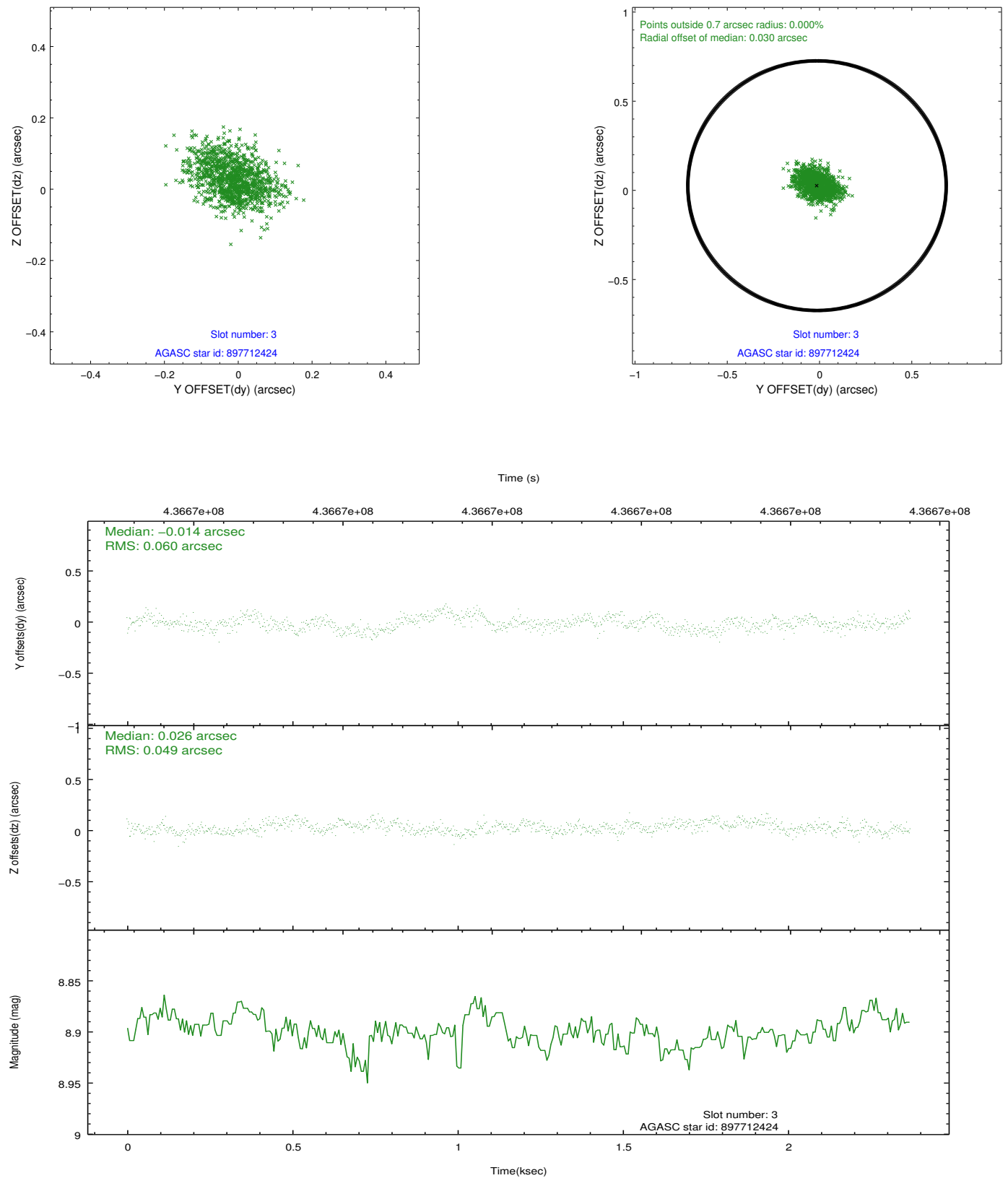
### Slot Statistics

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	579	0.059	-0.046	0.006	0.011	0.000000	0.000000	928.46	-838.93
1	FID	ACIS-I-5	7.02	579	-0.213	0.057	0.006	0.012	0.000000	0.000000	-1818.40	1057.29
2	FID	ACIS-I-6	7.02	579	0.063	0.058	0.006	0.011	0.000000	0.000000	391.04	1704.89
3	GUIDE	897712424	8.90	1156	-0.014	0.026	0.084	0.138	269.567786	-28.090711	-1643.27	1092.48
4	GUIDE	897721048	7.89	1157	-0.067	0.097	0.058	0.092	268.989561	-28.030814	-1711.38	-754.89
5	GUIDE	898238128	7.73	1157	0.166	-0.087	0.081	0.123	268.450740	-28.688500	793.57	-2255.31
6	GUIDE	898252768	8.81	1156	0.054	-0.096	0.105	0.162	269.910789	-28.705322	480.07	2343.54
7	GUIDE	898258992	7.98	1085	-0.139	0.059	0.056	0.092	269.435214	-28.570389	111.69	811.89

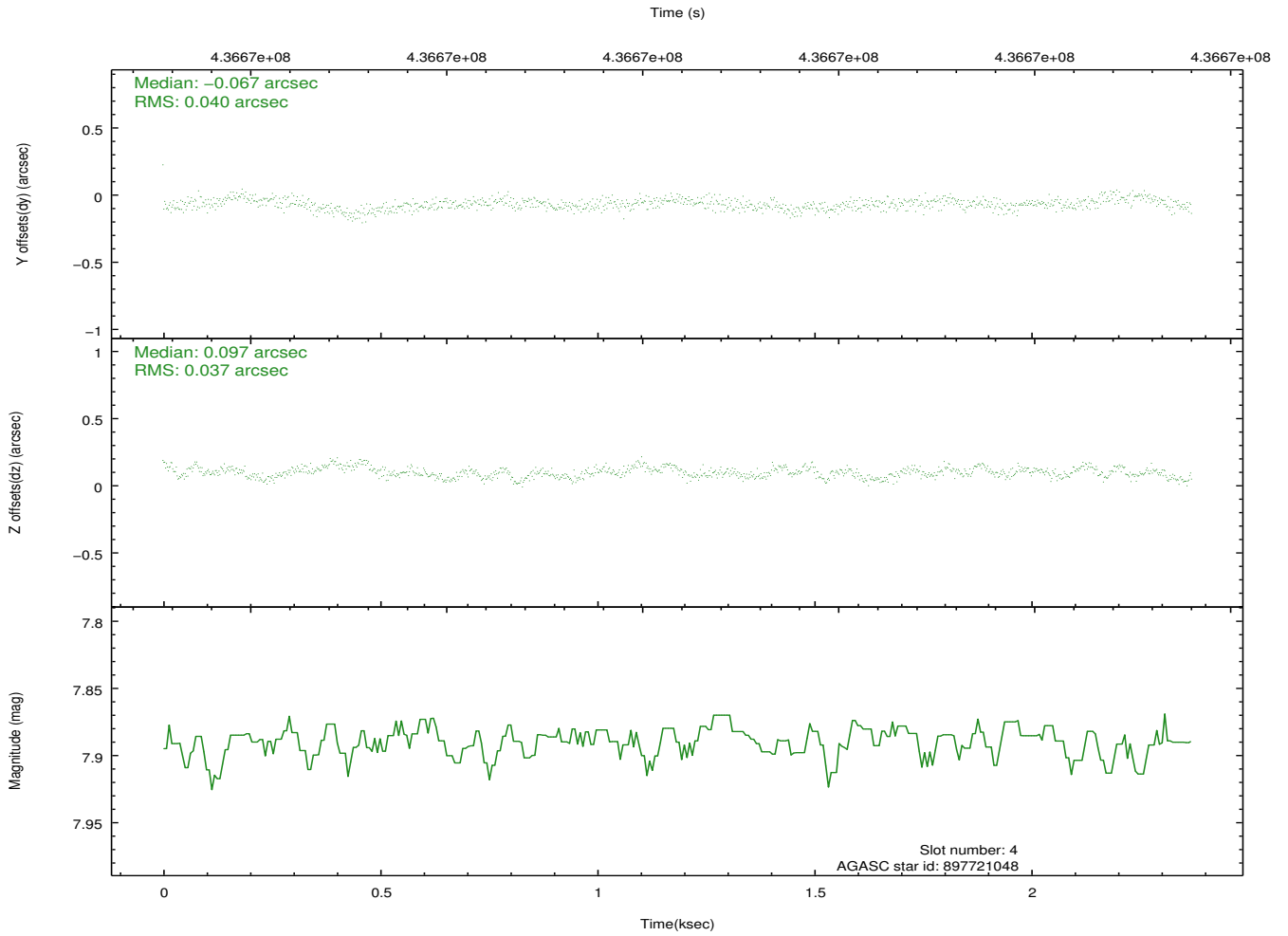
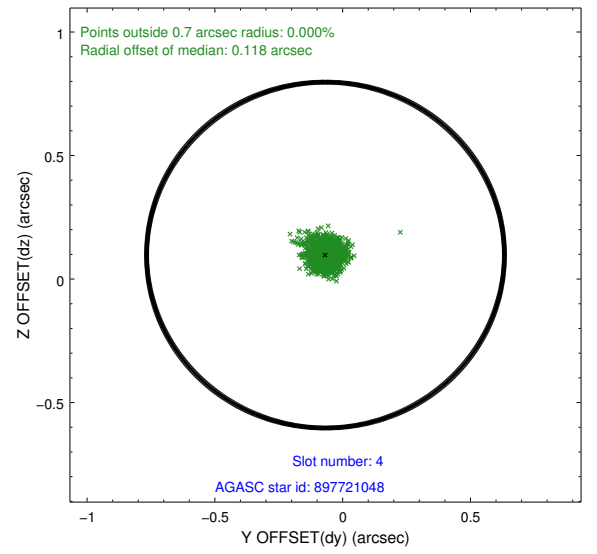
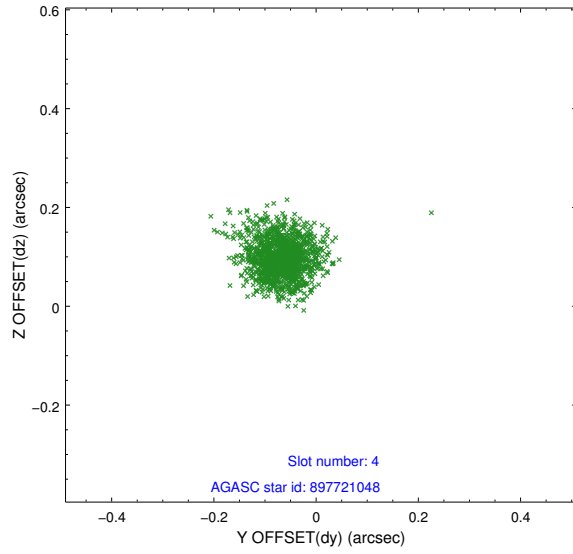


## 2.4 Star Slots

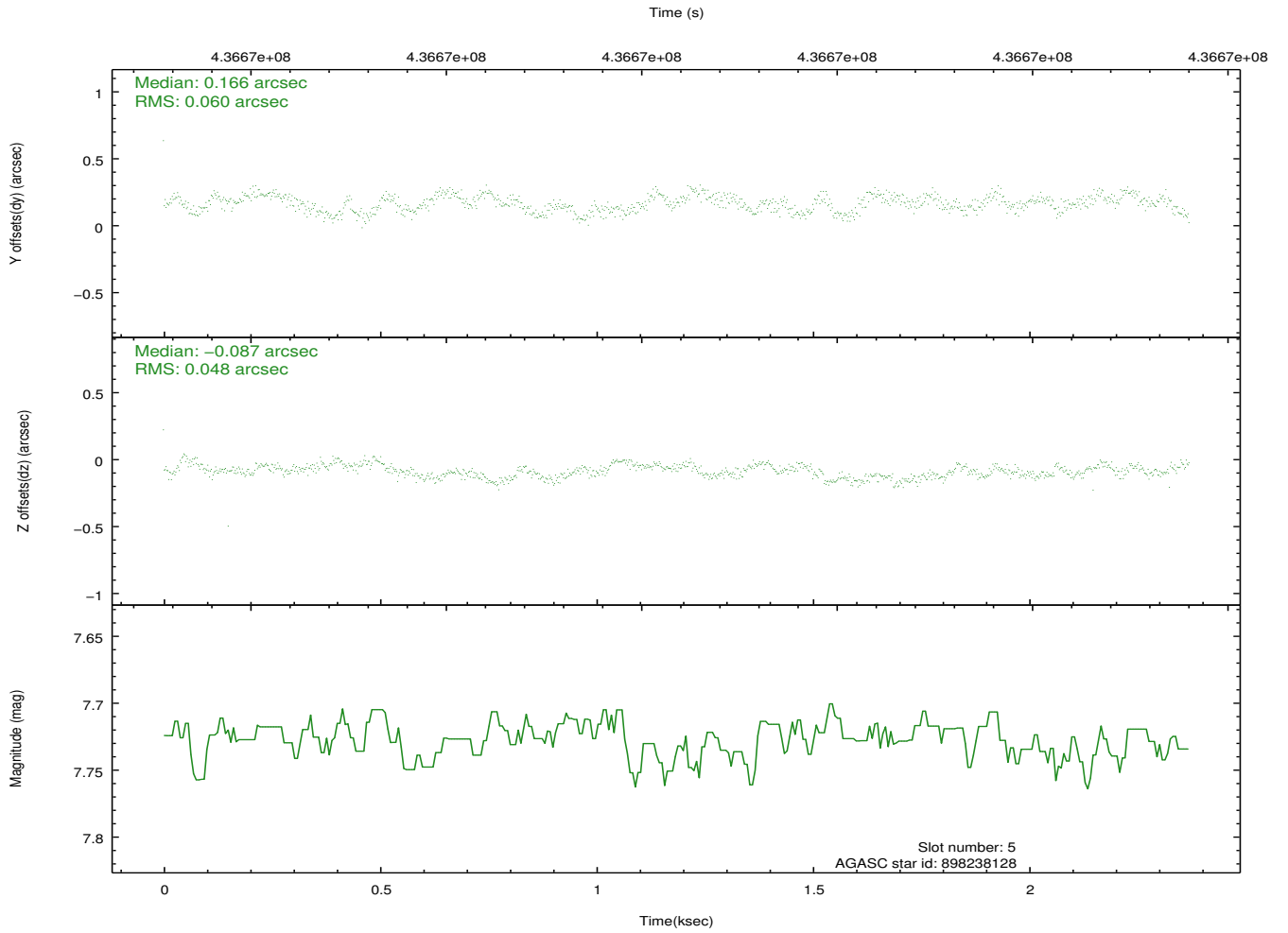
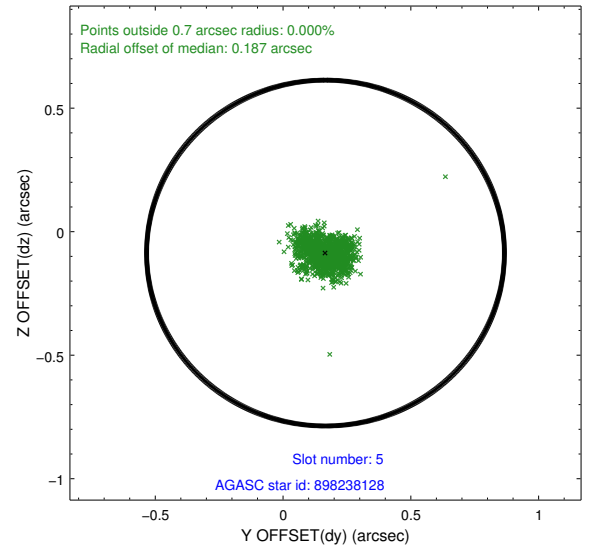
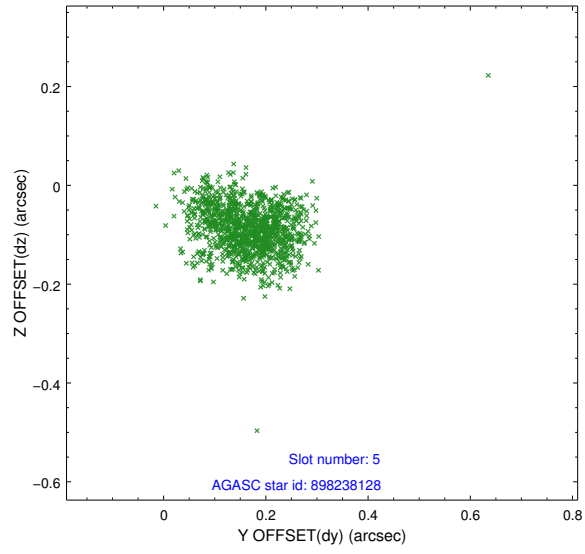
### 2.4.1 Slot 3



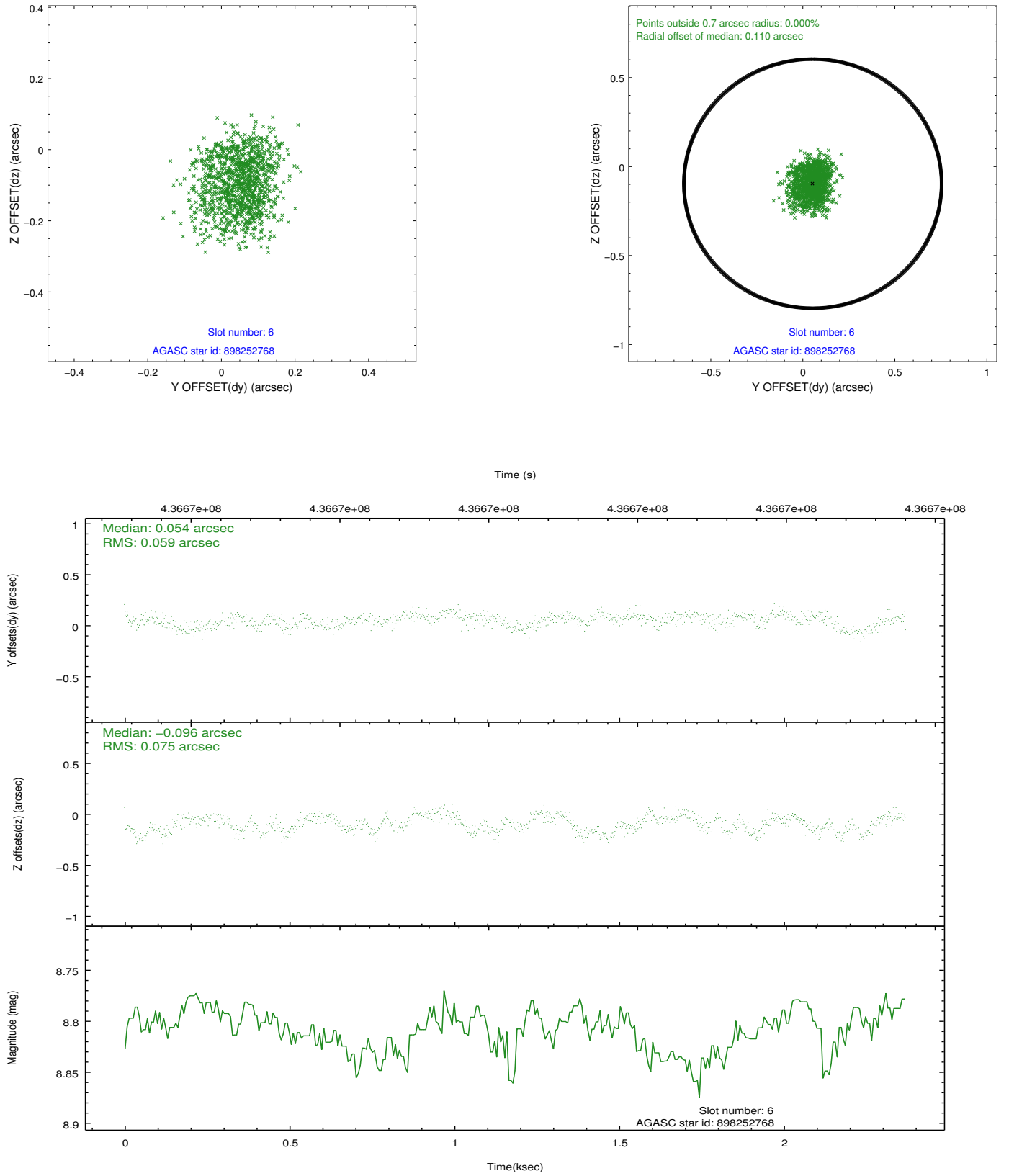
## 2.4.2 Slot 4



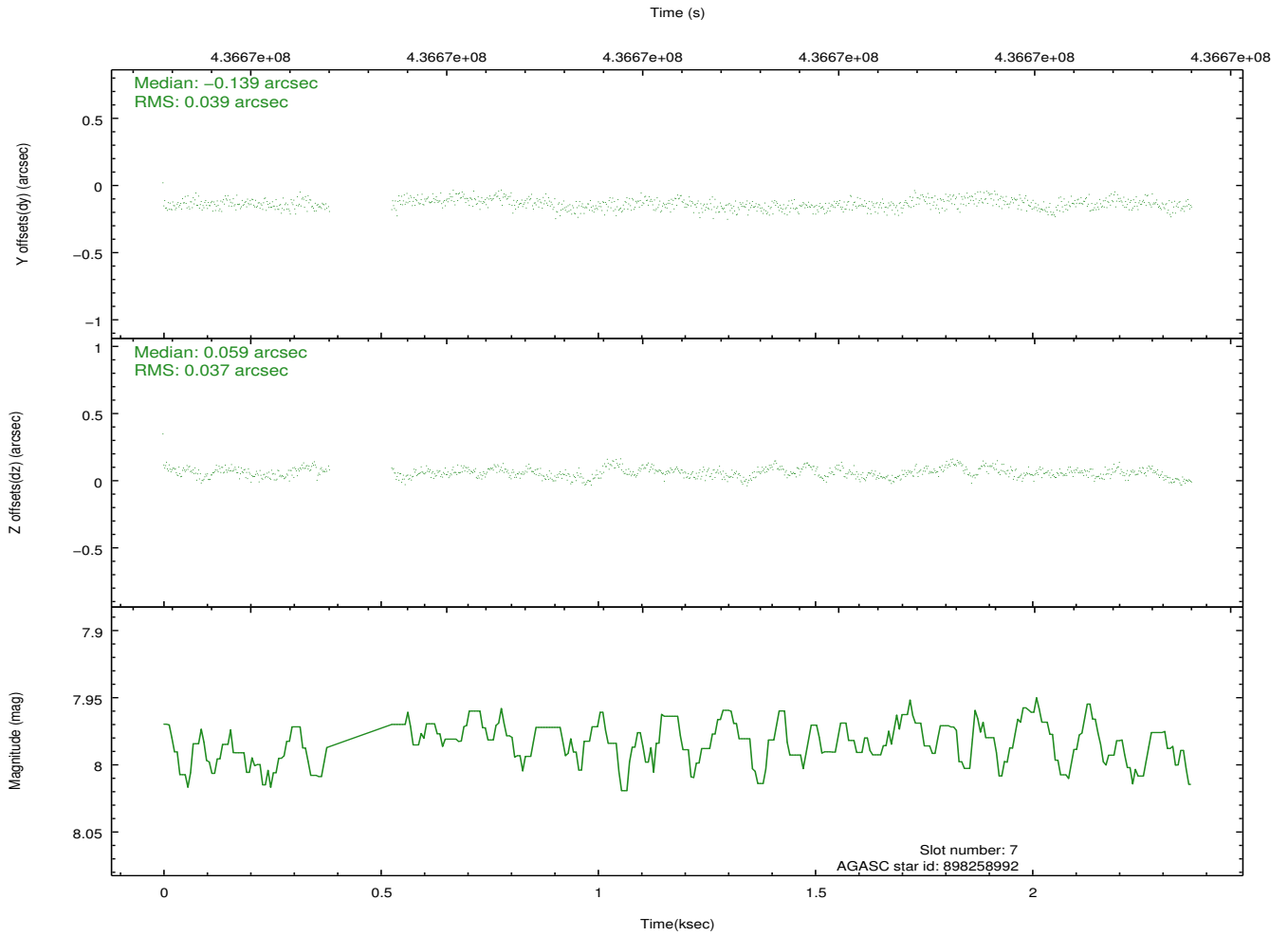
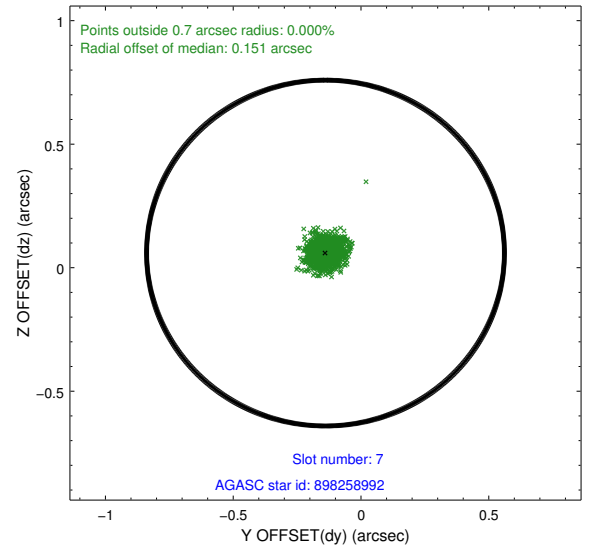
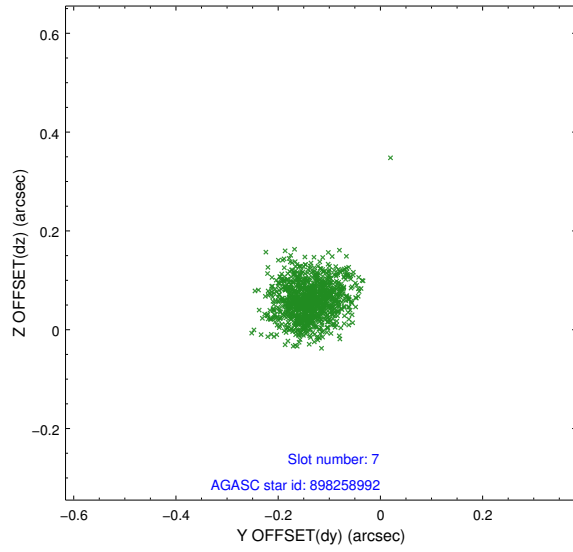
### 2.4.3 Slot 5



## 2.4.4 Slot 6

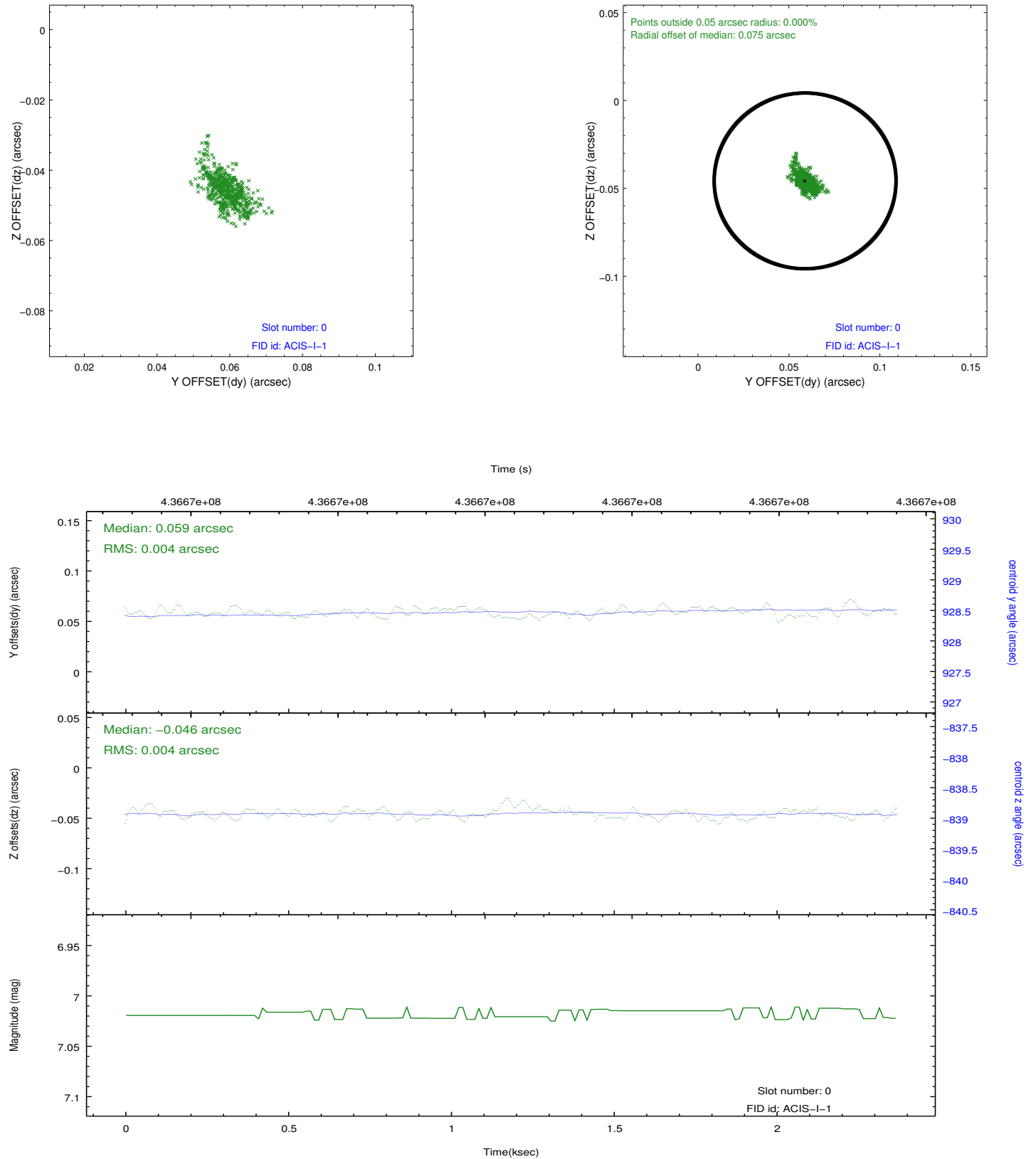


## 2.4.5 Slot 7

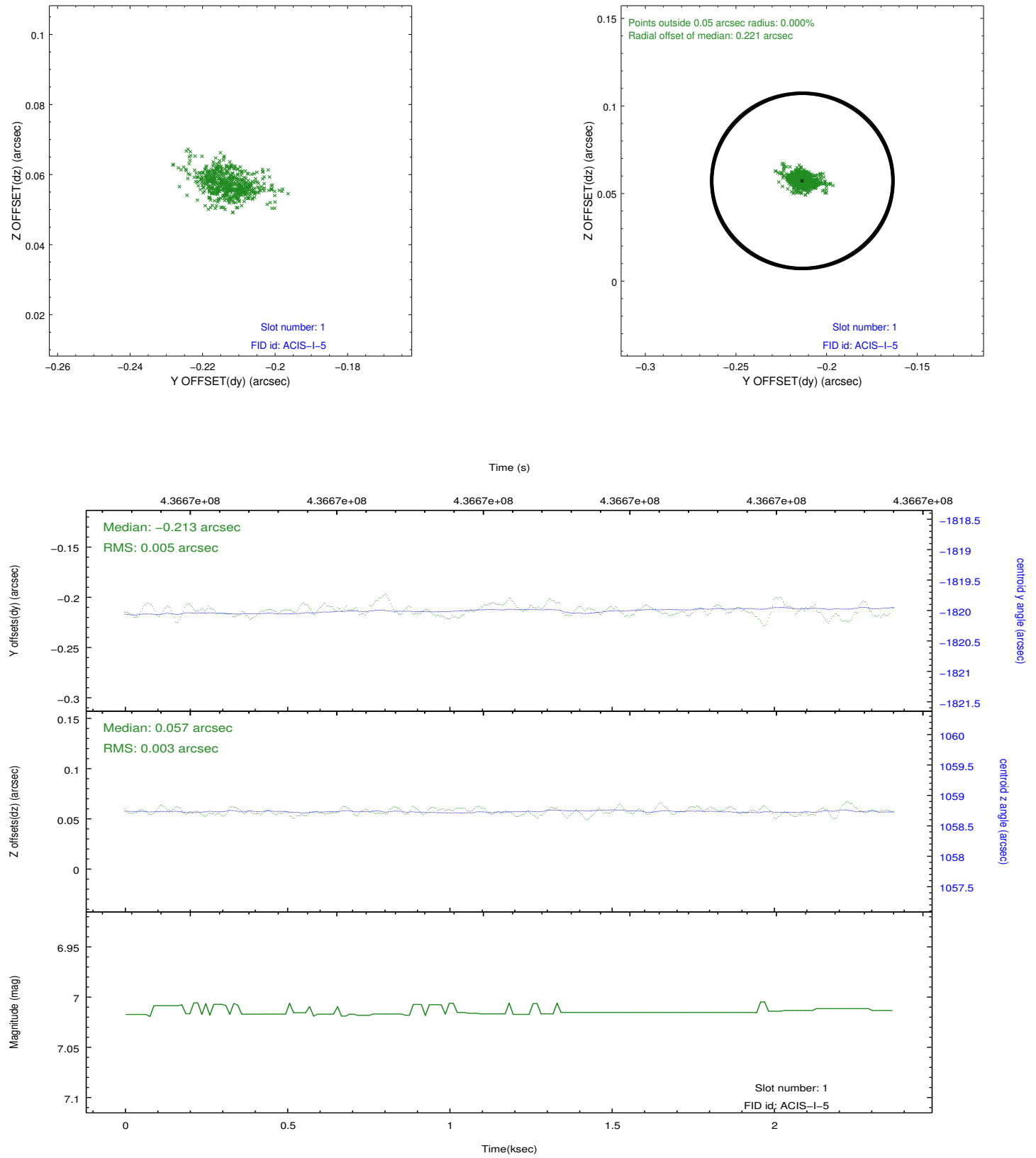


## 2.5 FID Slots

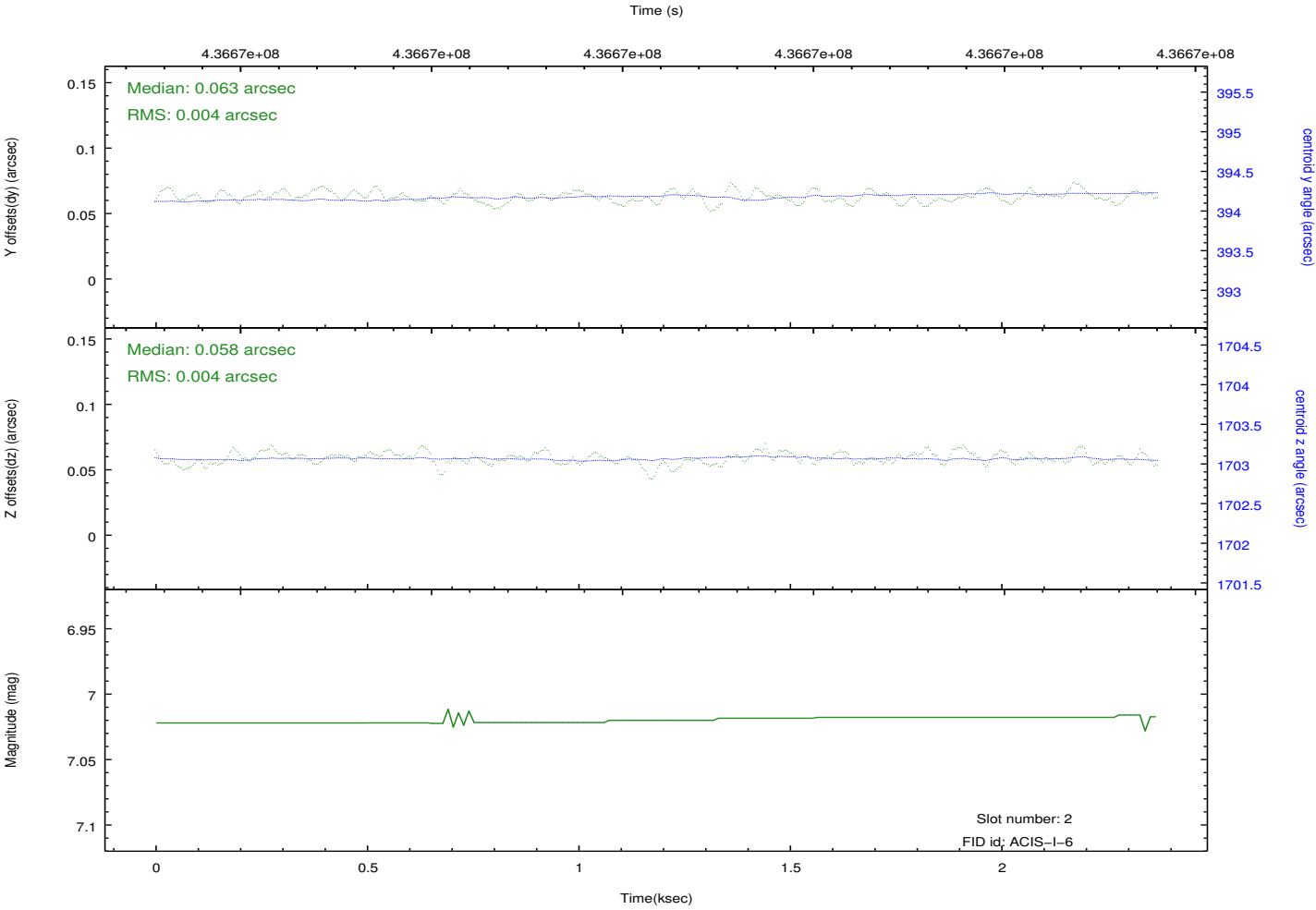
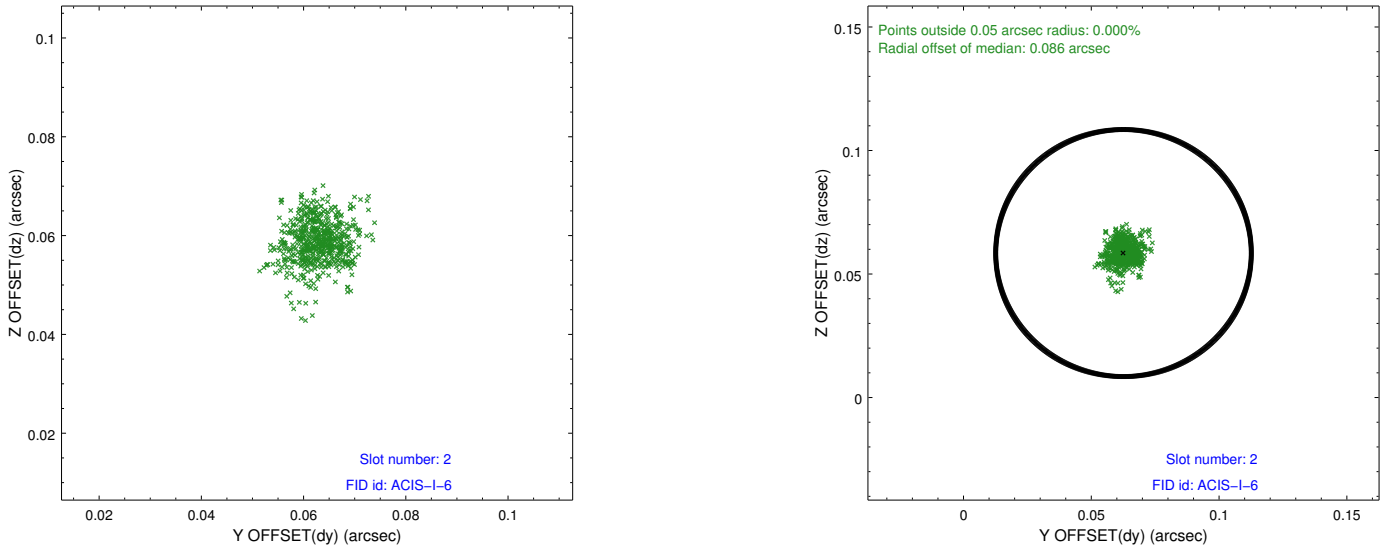
### 2.5.1 Slot 0



## 2.5.2 Slot 1



2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9716000151634

### A.2 Comments

Joint proposal with NOAO.