

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13556 - L2 Version 2  
Chandra X-Ray Center

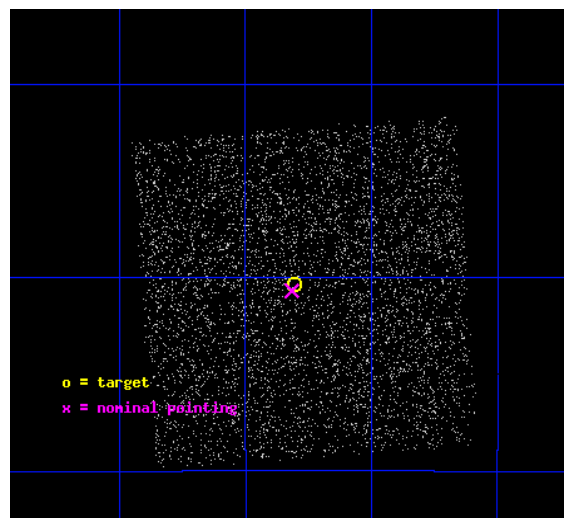
L2 Processing Date : Feb 26 2012

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# 1 Front

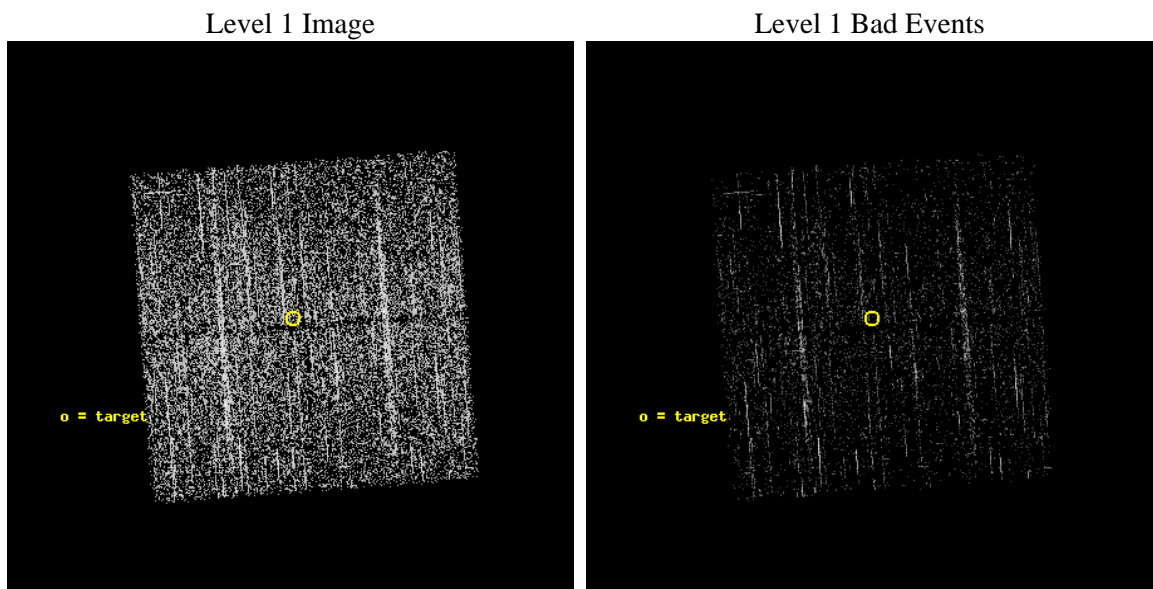
seq_num	401332	Sequence number
obs_id	13556	Observation id
title	Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr P Jonker	Principal investigator
object	GBS13-3	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	269.326873	Observer's specified target RA [deg]
dec_targ	-28.339333	Observer's specified target Dec [deg]
ra_nom	269.3290375058	Nominal RA [deg]
dec_nom	-28.344853899498	Nominal Dec [deg]
roll_nom	265.78899663684	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	5509	Number of level 2 events



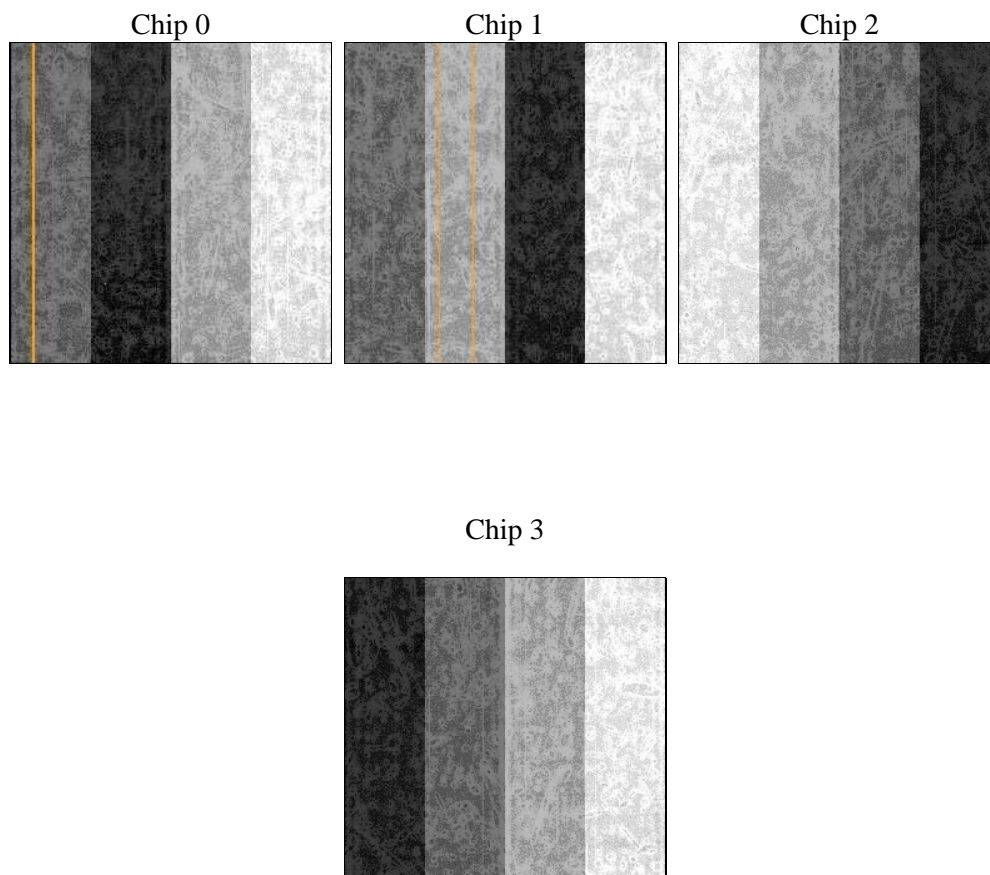
## 2 OBI

### 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	2012-02-26T02:33:49	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	45499	Number of level 1 events

### 2.1.4 Events

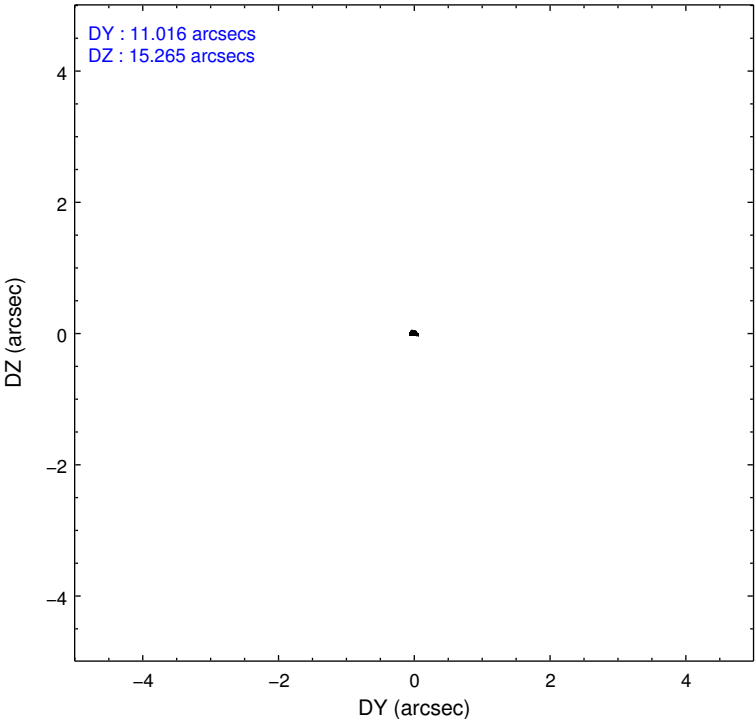
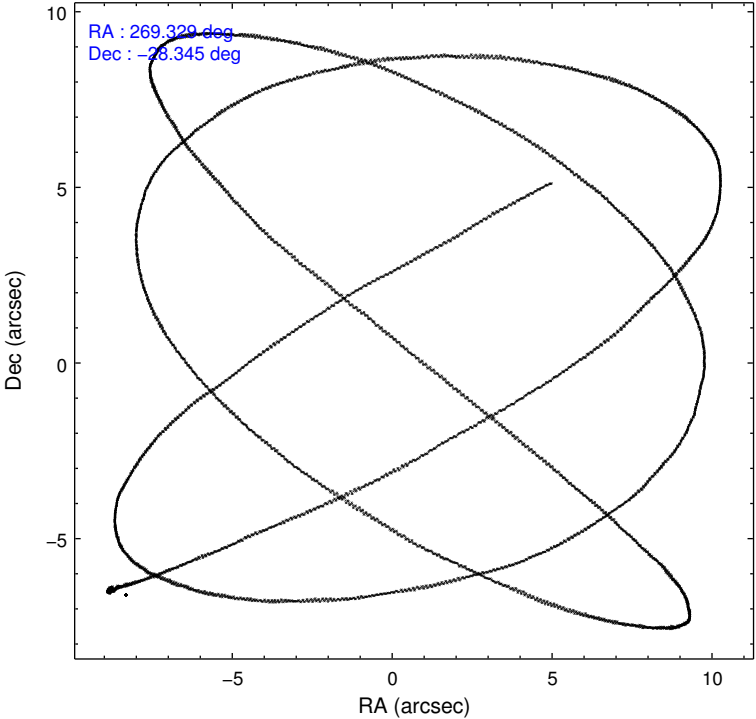
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	10735	10428	12589	11747
rejected events	9138	8732	11031	10171
rejected %	85%	83%	87%	86%

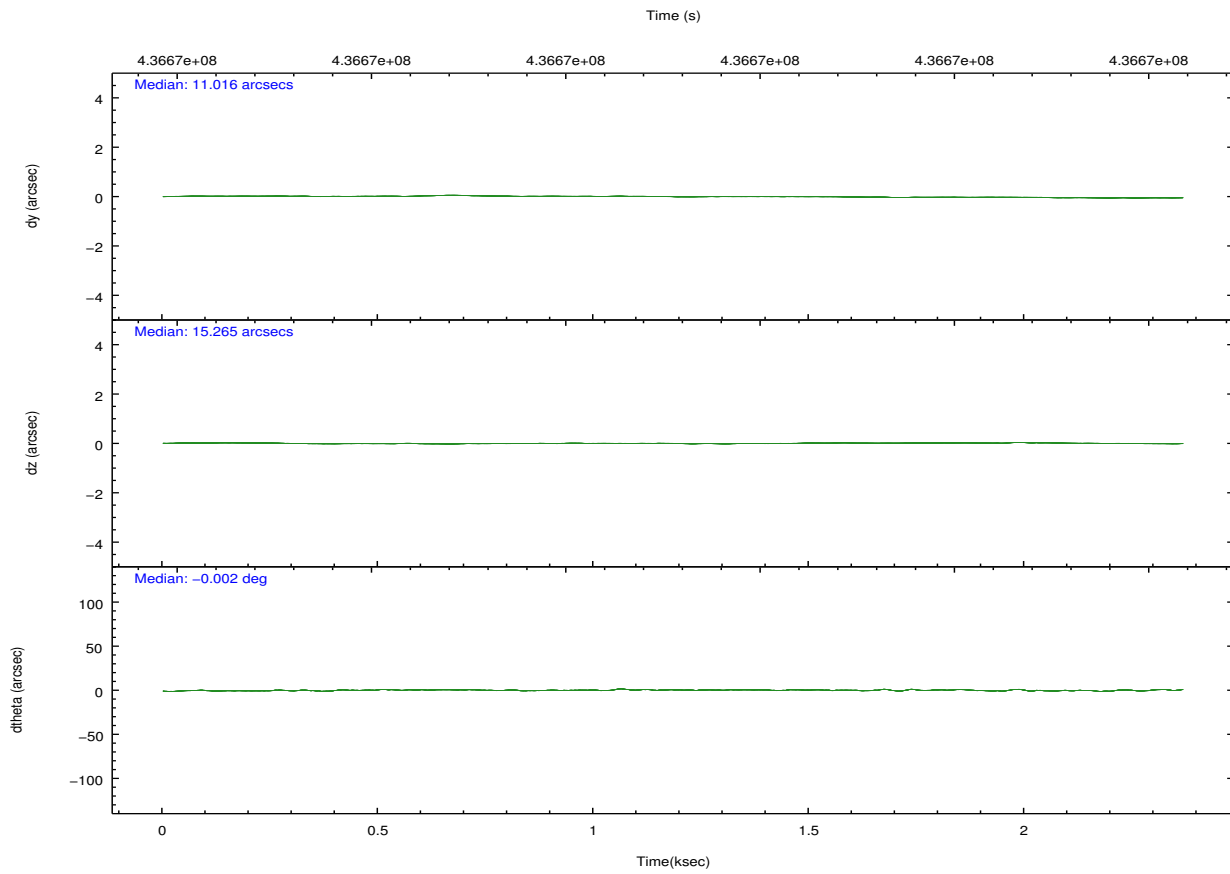
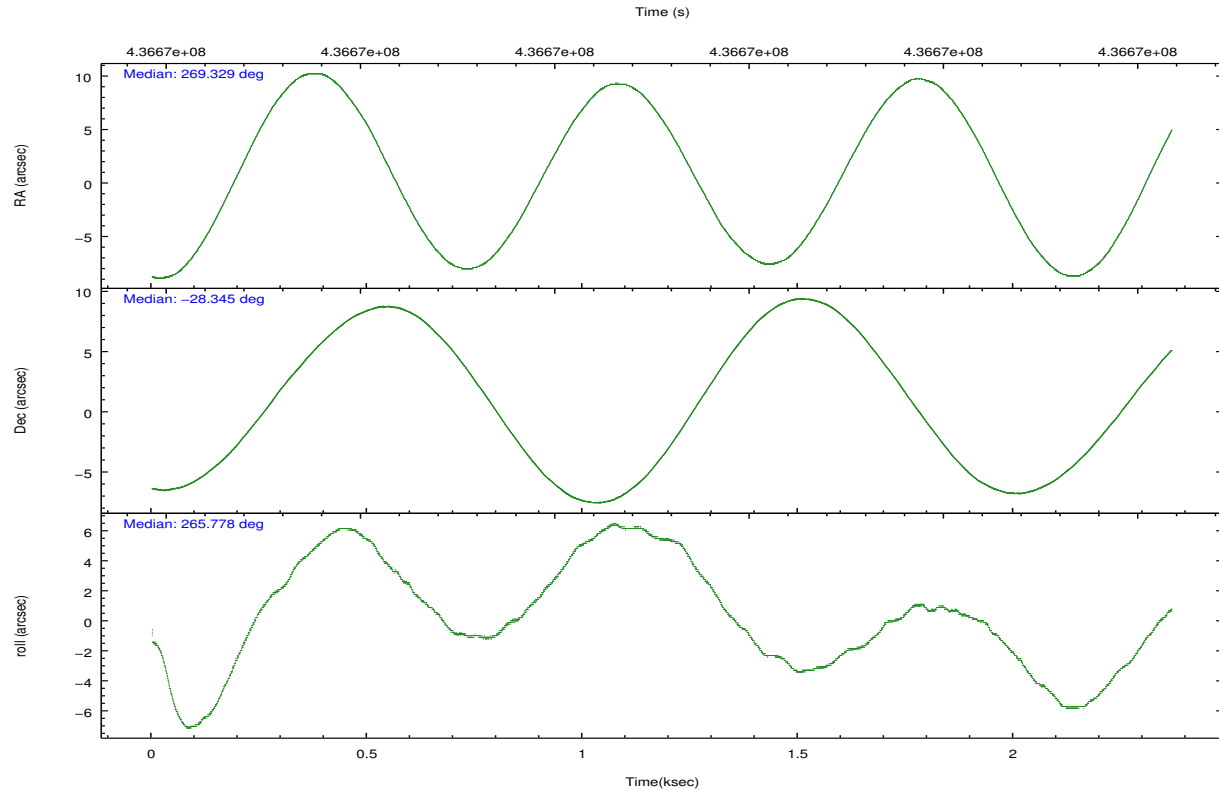
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	680	718	696	720
	6%	6%	5%	6%
grade 1 events	8	16	9	4
	0%	0%	0%	0%
grade 2 events	350	404	332	292
	3%	3%	2%	2%
grade 3 events	146	146	132	146
	1%	1%	1%	1%
grade 4 events	133	138	143	138
	1%	1%	1%	1%
grade 5 events	532	495	572	540
	4%	4%	4%	4%
grade 6 events	294	298	261	284
	2%	2%	2%	2%
grade 7 events	8592	8213	10444	9623
	80%	78%	82%	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	269.315467	269.3290375057992	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.319995	-28.34485389949841	Alternating exposures requested	N	N
[deg] Pointing Roll	265.573884	265.7889966368402	[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)	436670782.184000	436670406.55227			
Observation start date	2011-11-03T01:25:16	2011-11-03T01:20:06			
[s] Observation end time (MET)	436672962.184000	436673096.66491			
Observation end date	2011-11-03T02:01:36	2011-11-03T02:04:56			
Read mode	TIMED	TIMED			

2.3 Aspect





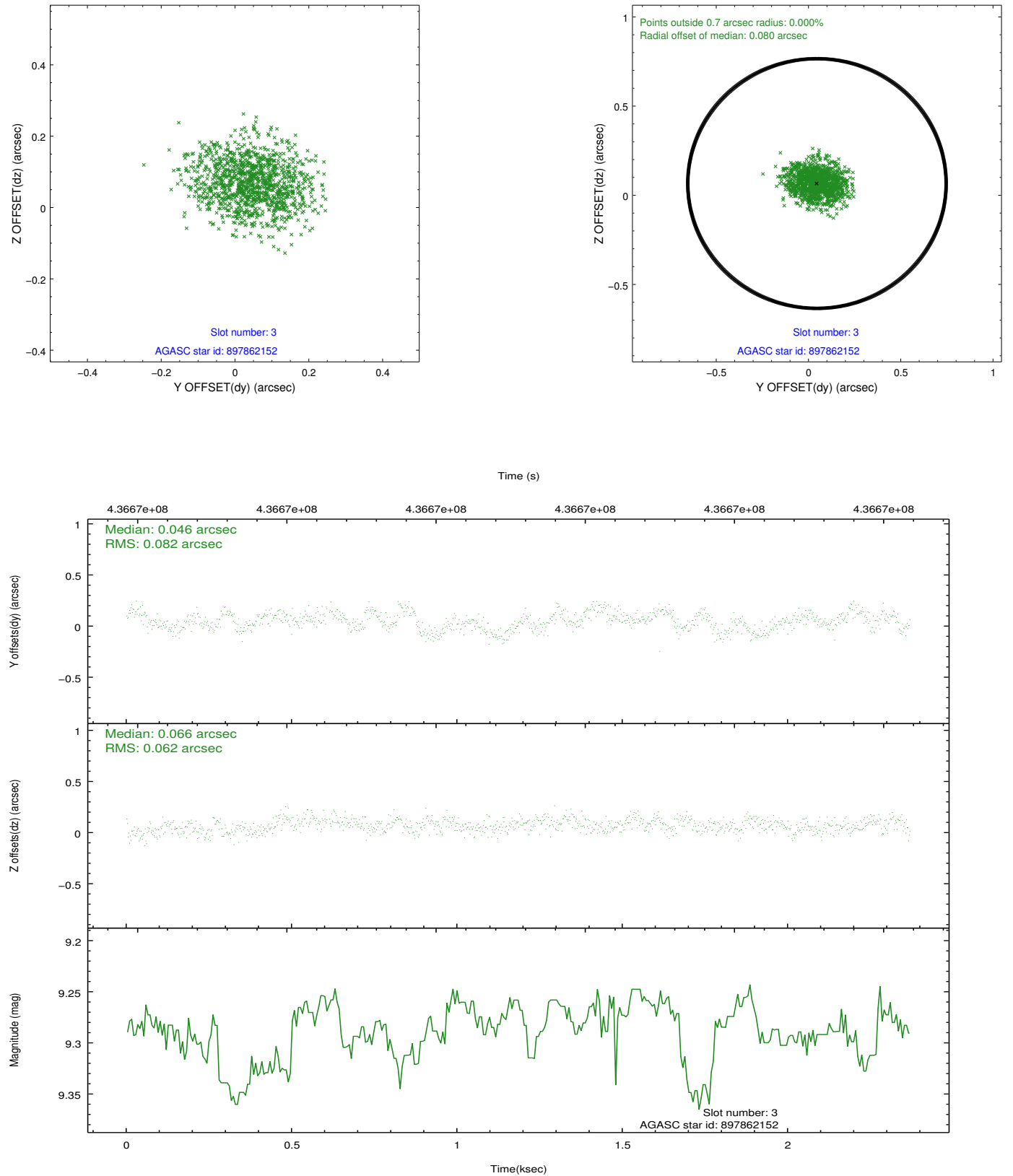
### Slot Statistics

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	0.069	-0.056	0.010	0.017	0.000000	0.000000	928.63	-838.93
1	FID	ACIS-I-5	7.02	578	-0.227	0.062	0.008	0.013	0.000000	0.000000	-1818.26	1057.30
2	FID	ACIS-I-6	7.02	578	0.067	0.064	0.008	0.015	0.000000	0.000000	391.19	1704.91
3	GUIDE	897862152	9.29	1153	0.046	0.066	0.110	0.175	270.075629	-28.076037	-1055.16	2340.69
4	GUIDE	898236640	9.02	1154	0.085	-0.166	0.103	0.162	268.893541	-28.185549	-377.27	-1369.86
5	GUIDE	898258992	7.99	1156	0.026	-0.061	0.077	0.131	269.435214	-28.570389	869.04	446.63
6	GUIDE	897720616	8.62	1156	-0.136	0.077	0.070	0.115	269.886360	-27.876425	-1728.06	1689.25
7	GUIDE	898242848	9.27	1148	-0.014	0.072	0.166	0.262	268.722136	-28.246270	-116.09	-1894.09

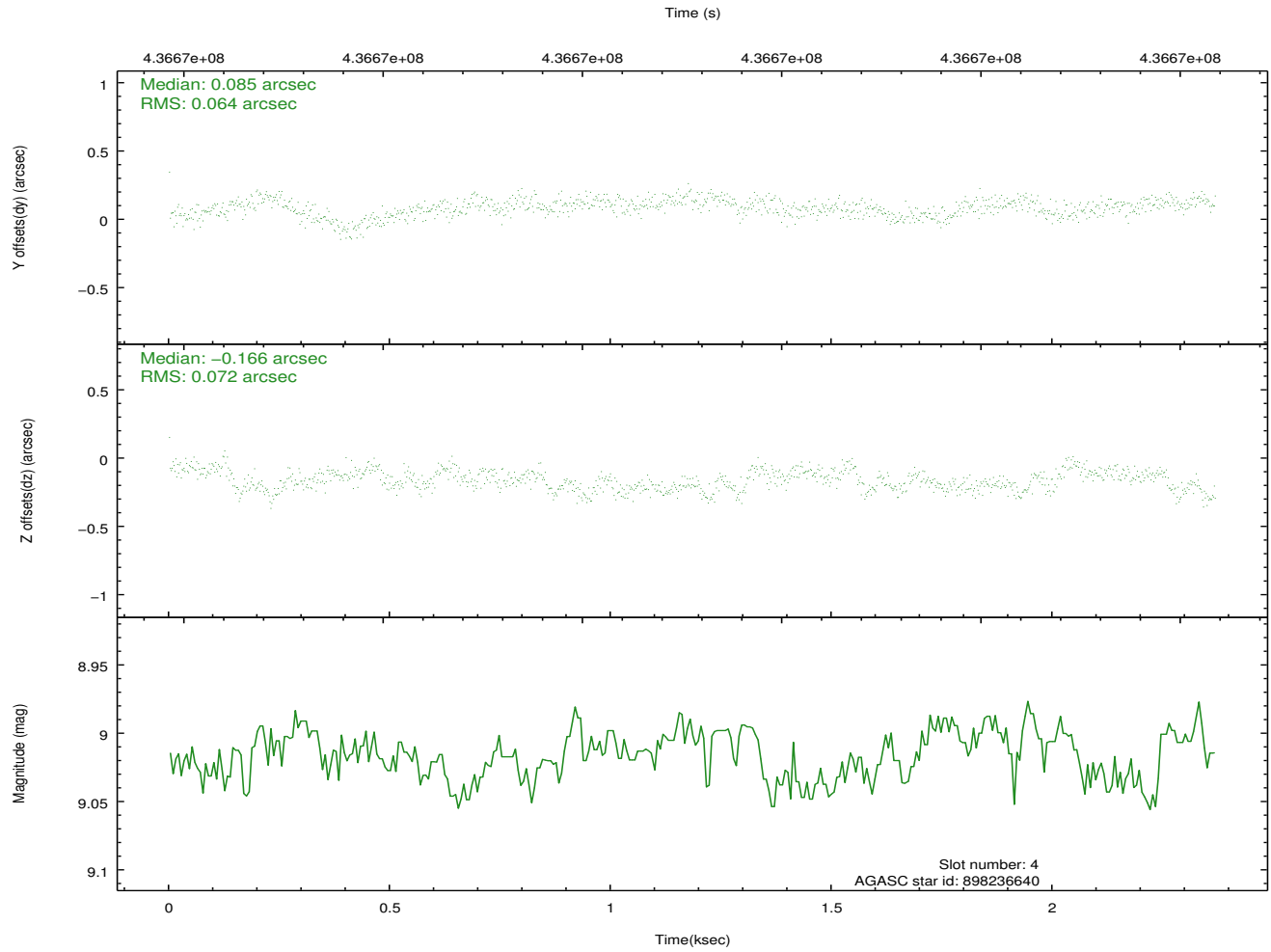
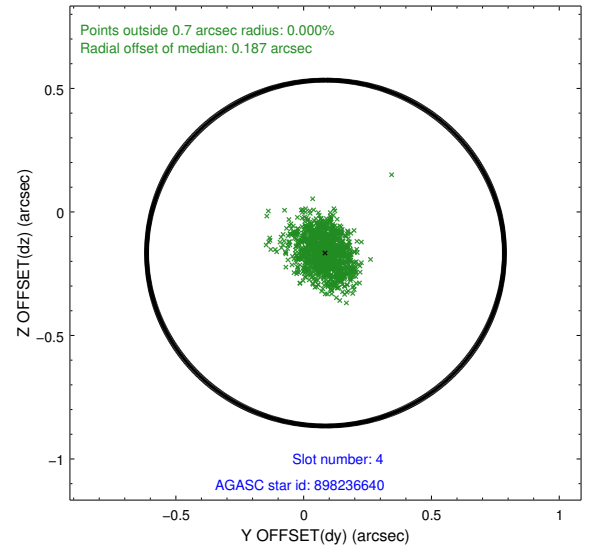
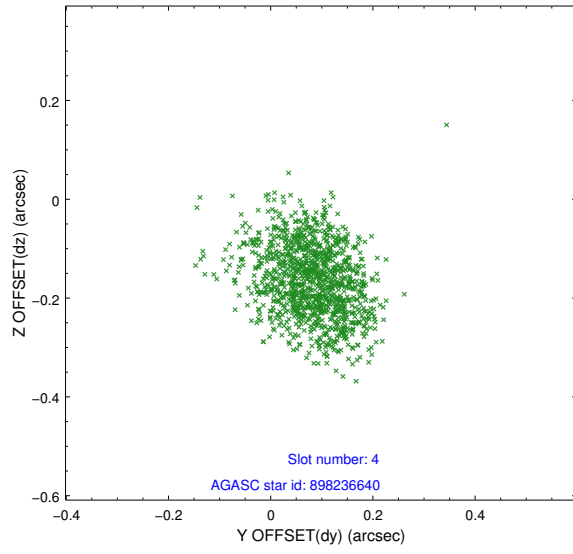


## 2.4 Star Slots

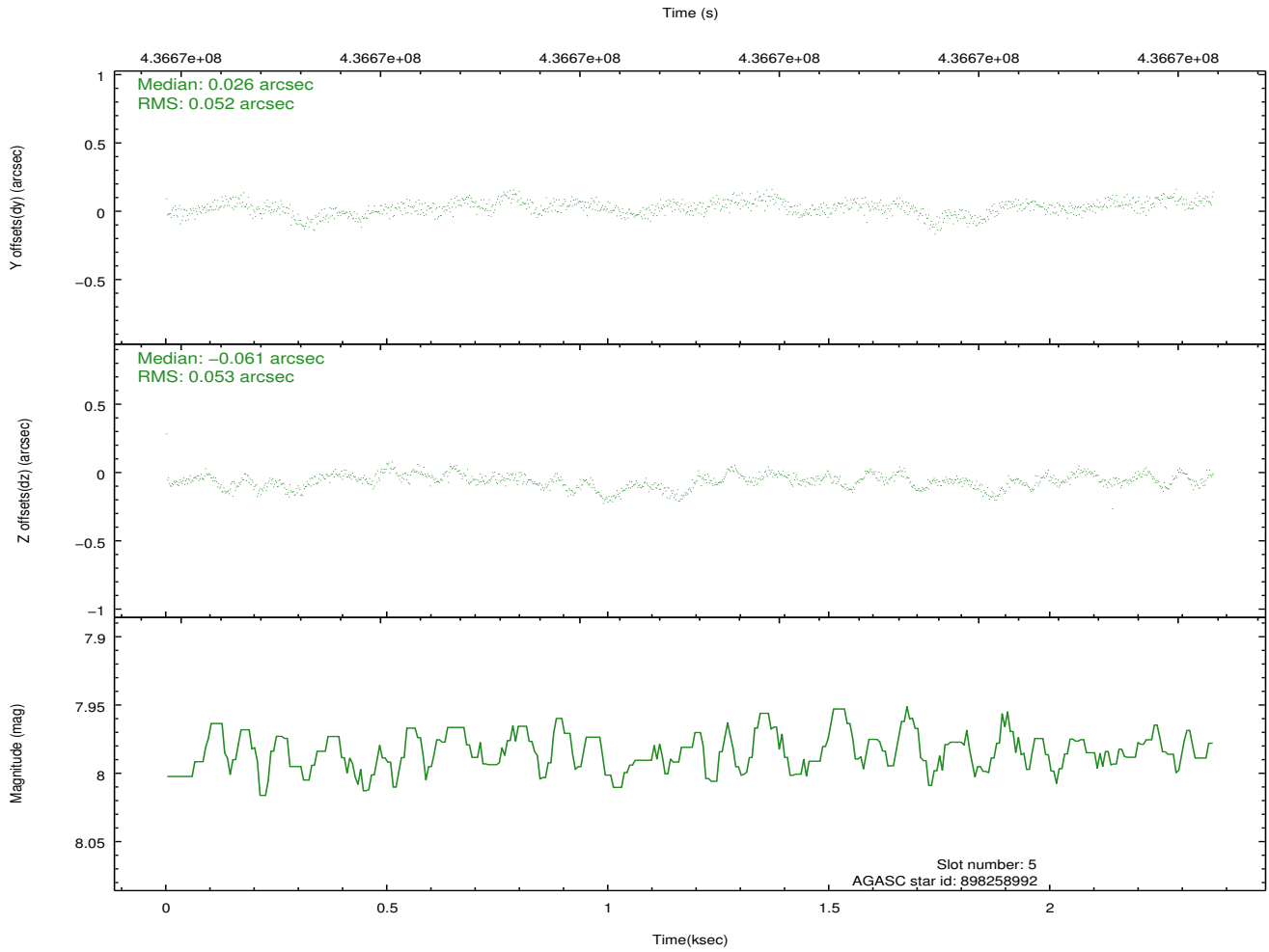
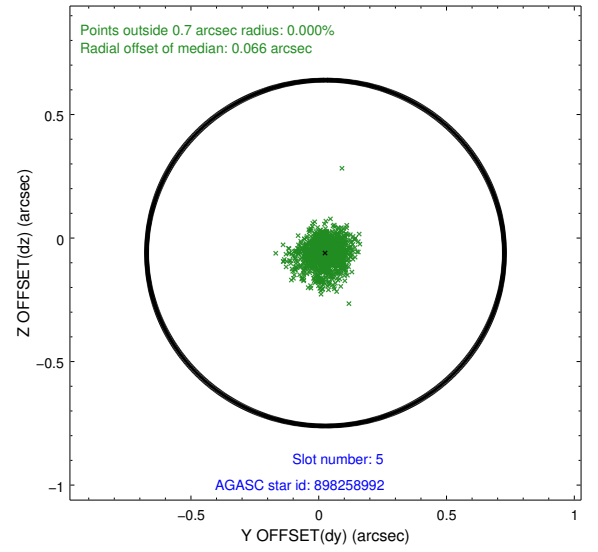
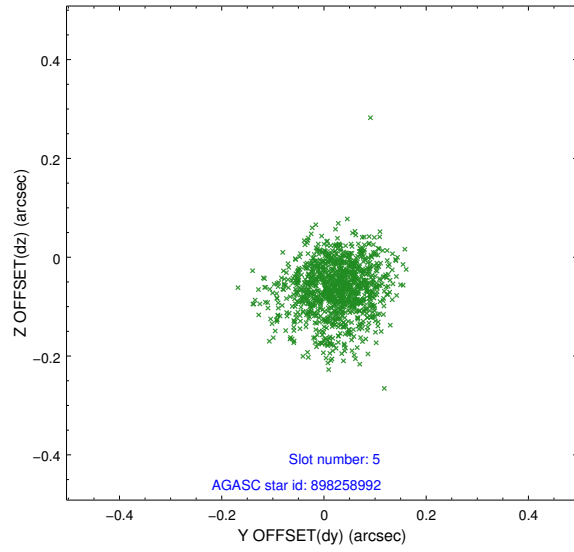
### 2.4.1 Slot 3



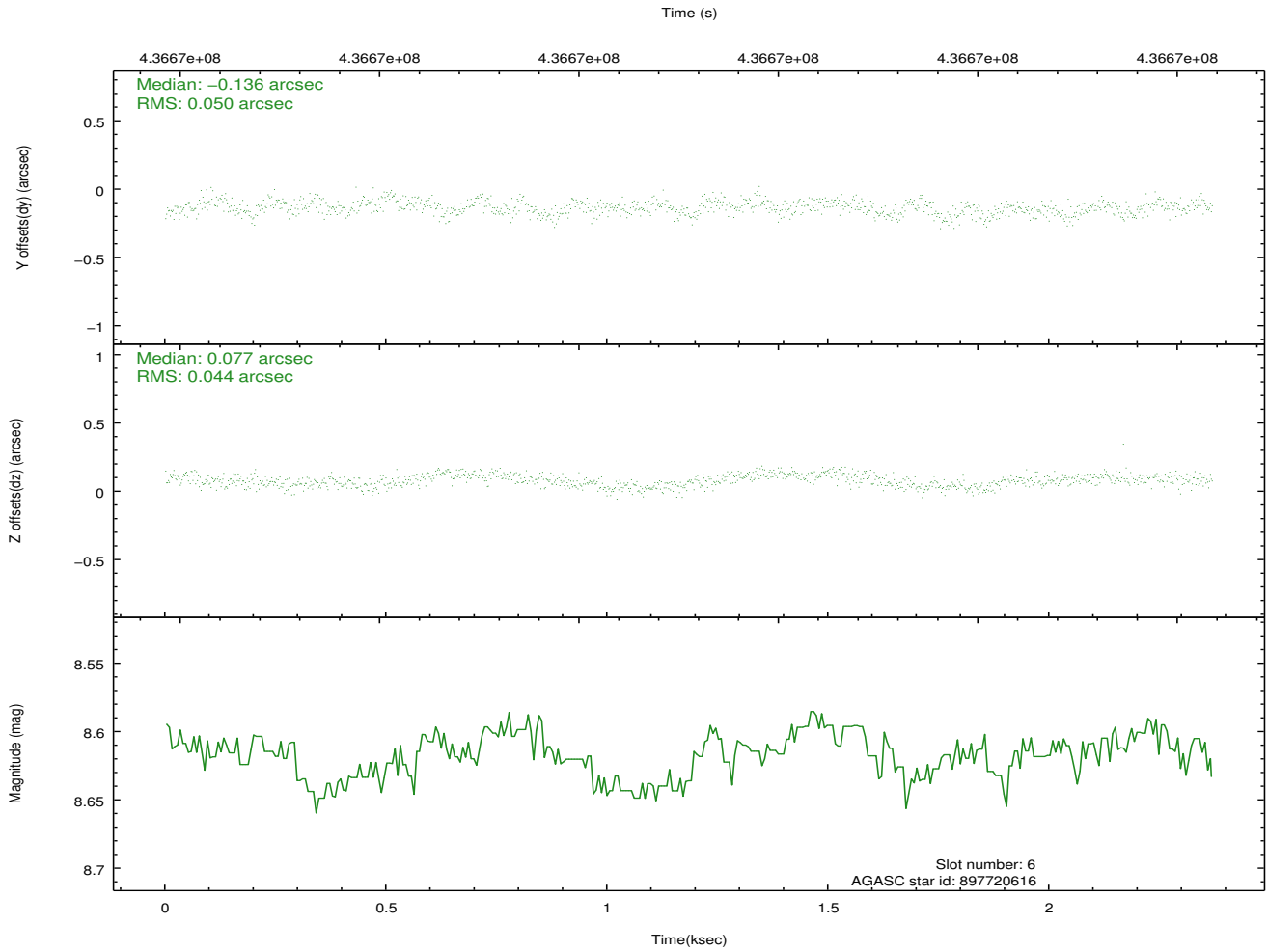
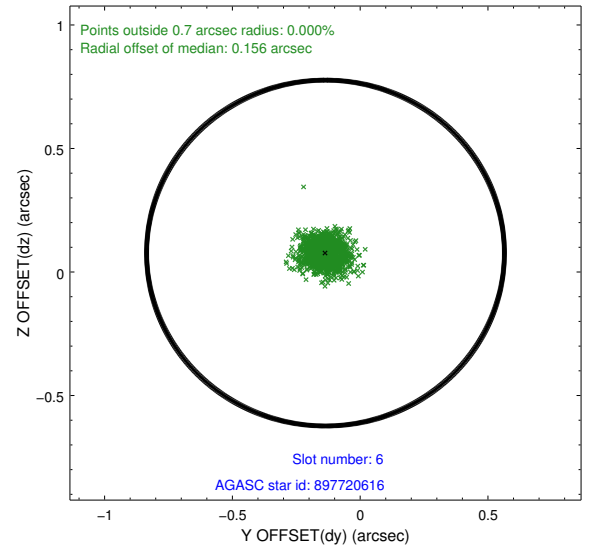
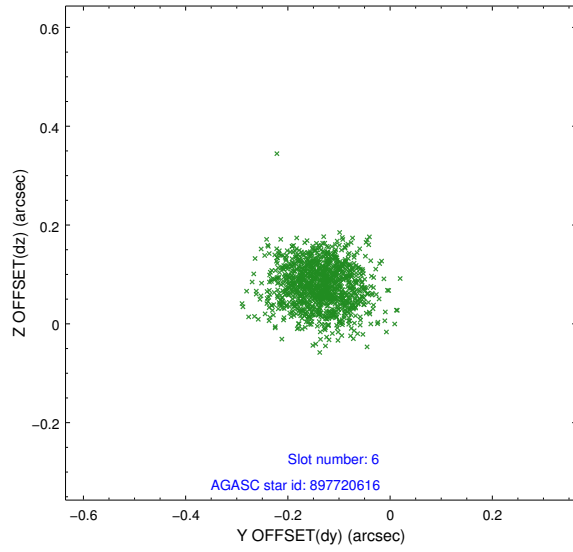
## 2.4.2 Slot 4



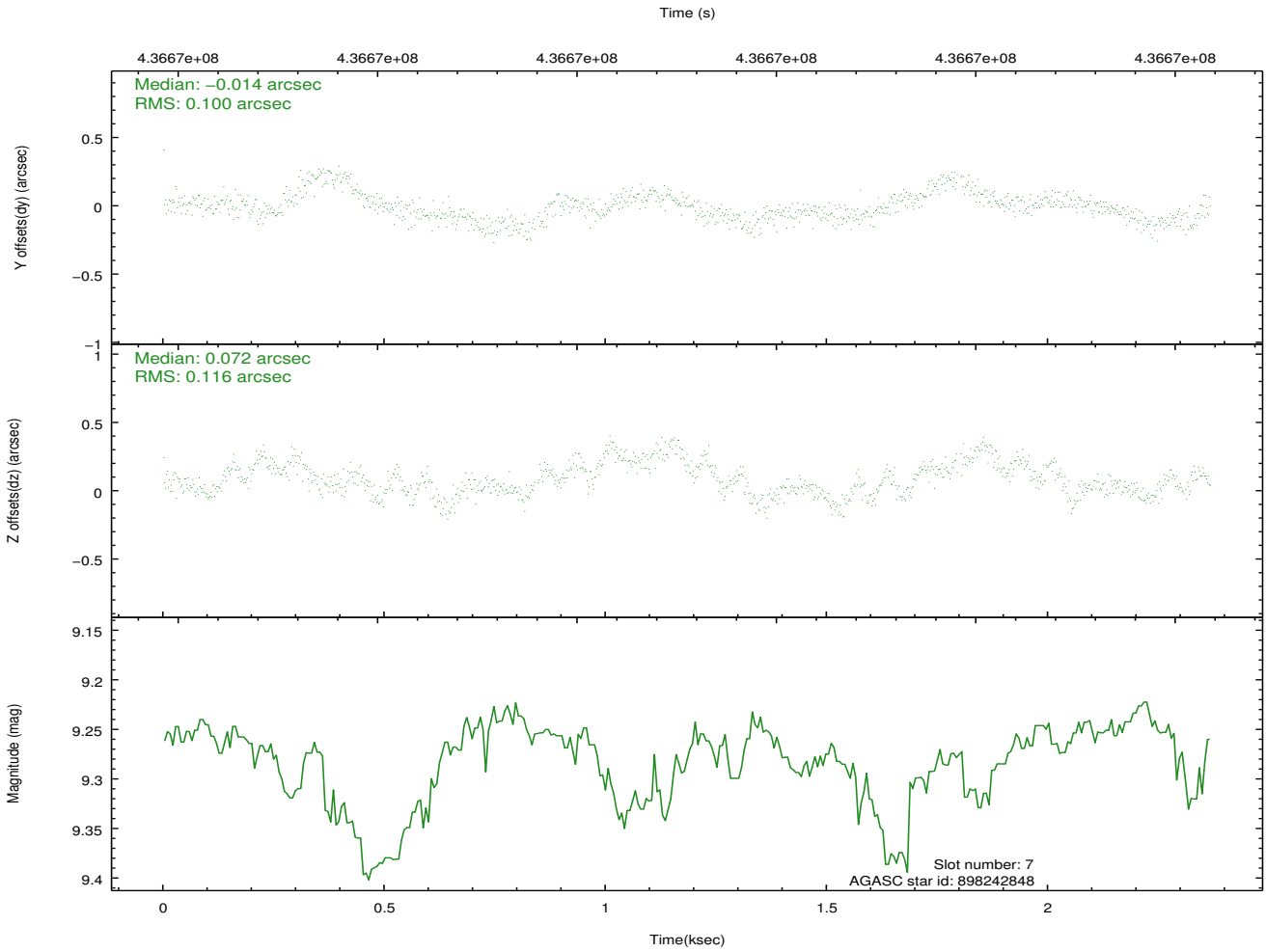
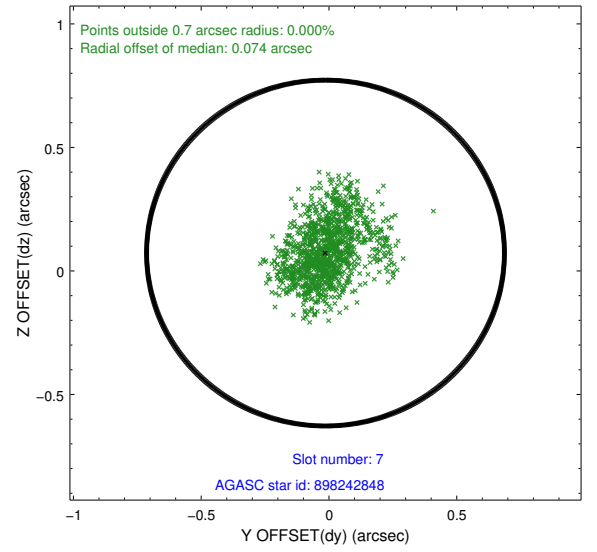
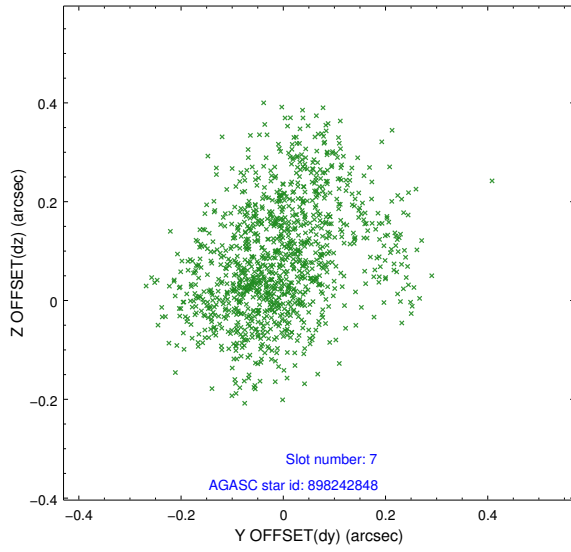
### 2.4.3 Slot 5



## 2.4.4 Slot 6

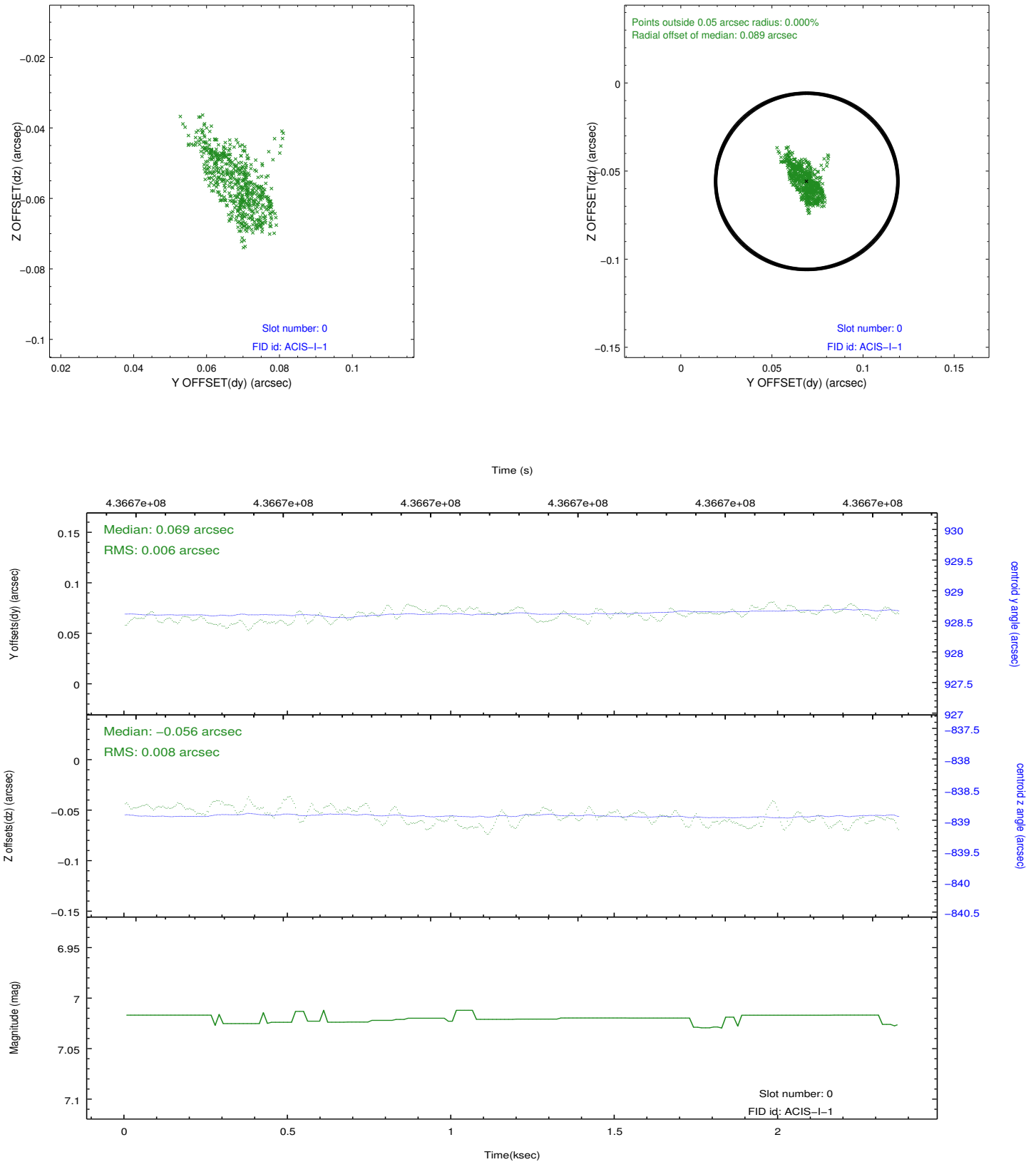


## 2.4.5 Slot 7

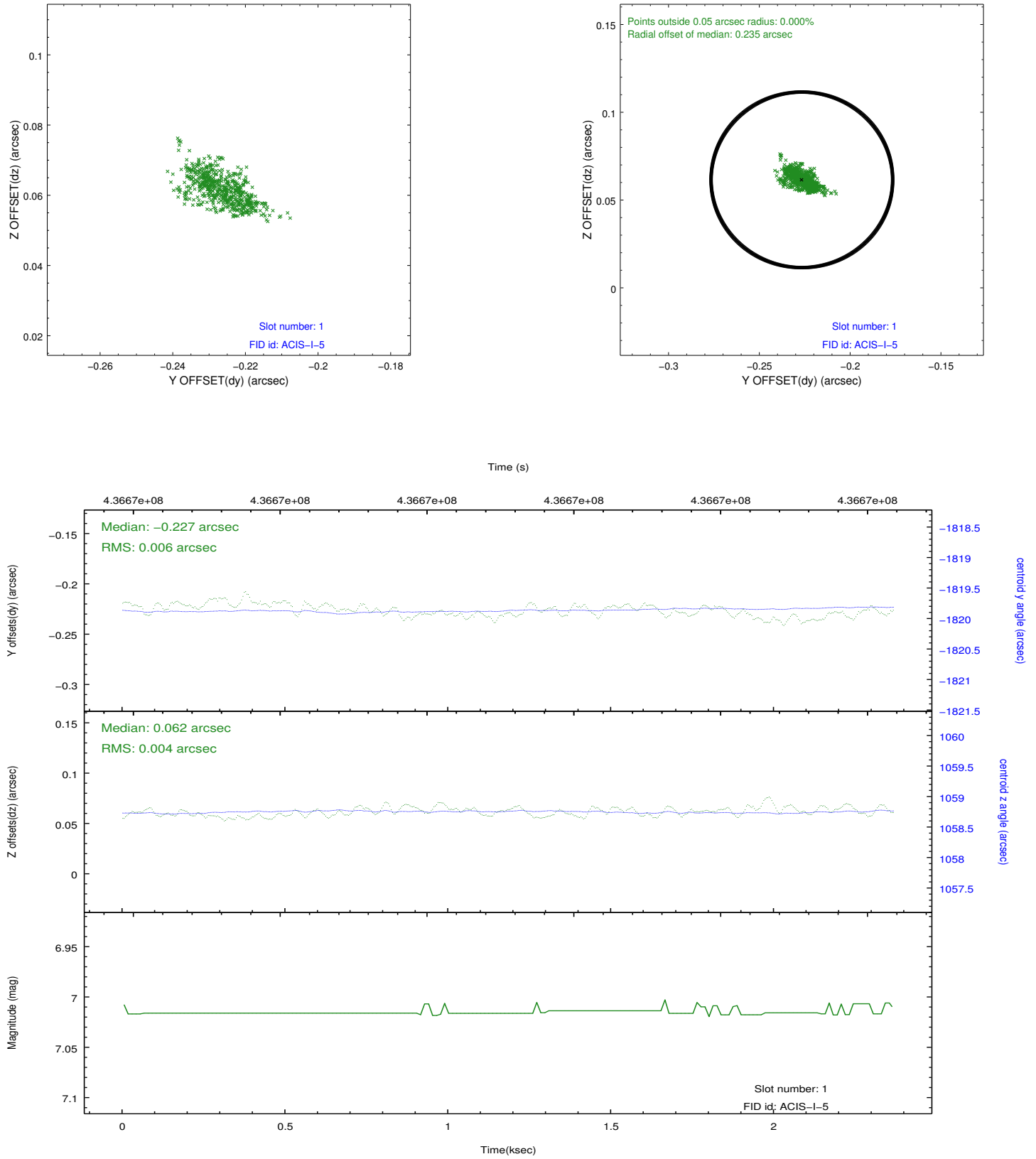


## 2.5 FID Slots

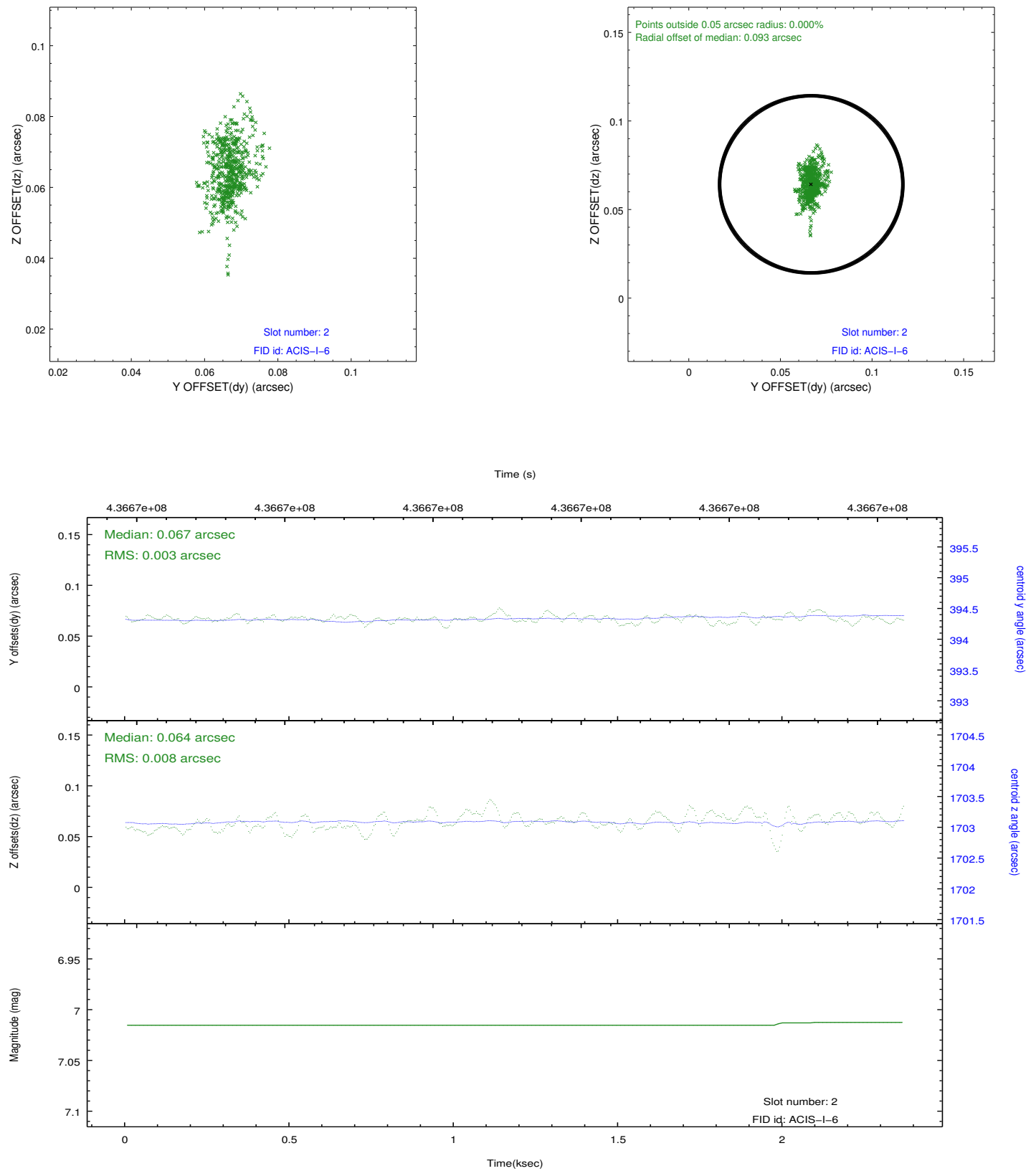
### 2.5.1 Slot 0



## 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.