

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8737 - L2 Version 2  
Chandra X-Ray Center

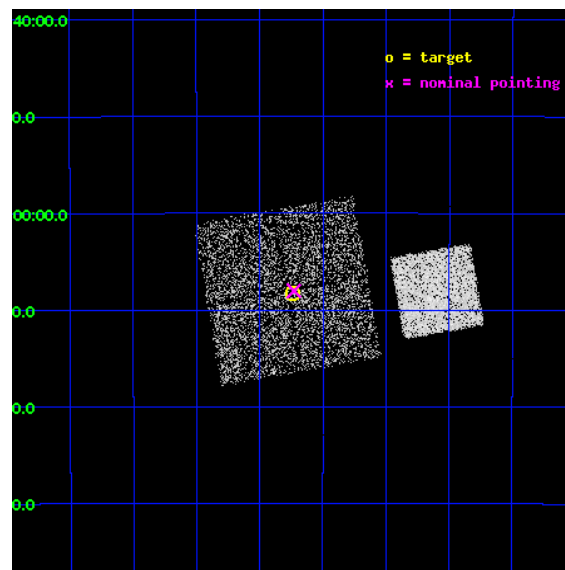
L2 Processing Date : May 14 2012

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# 1 Front

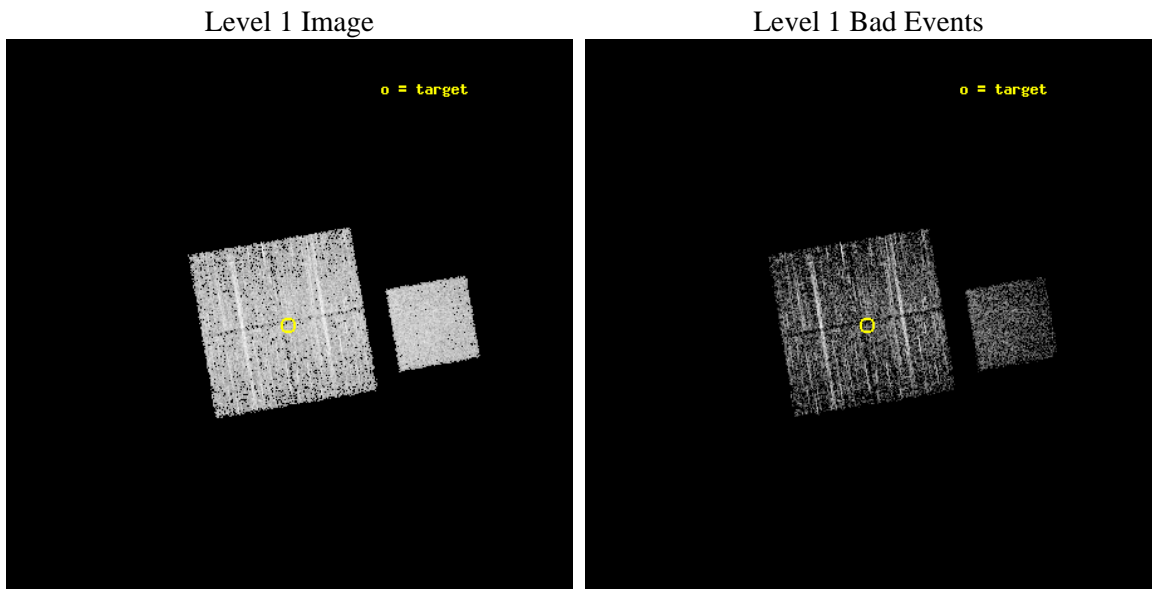
seq_num	400788	Sequence number
obs_id	8737	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.934156	Observer's specified target RA [deg]
dec_targ	-28.138584	Observer's specified target Dec [deg]
ra_nom	268.93226264733	Nominal RA [deg]
dec_nom	-28.13366090974	Nominal Dec [deg]
roll_nom	80.207809477689	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2185.5000168085	Sum of GTIs [s]
livetime	2156.9448501472	Livetime [s]
ontime0	2185.5000168085	Sum of GTIs [s]
ontime1	2185.5000168085	Sum of GTIs [s]
ontime2	2185.5000168085	Sum of GTIs [s]
ontime3	2185.5000168085	Sum of GTIs [s]
ontime7	2185.5000168085	Sum of GTIs [s]
l2events	15673	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2185.5000168085	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2185.5000168085	Sum of GTIs [s]
date	2012-05-14T23:29:08	Date and time of file creation	ontime1	2185.5000168085	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2185.5000168085	Sum of GTIs [s]
			ontime3	2185.5000168085	Sum of GTIs [s]
			ontime7	2185.5000168085	Sum of GTIs [s]
			l1events	101945	Number of level 1 events

### 2.1.4 Events

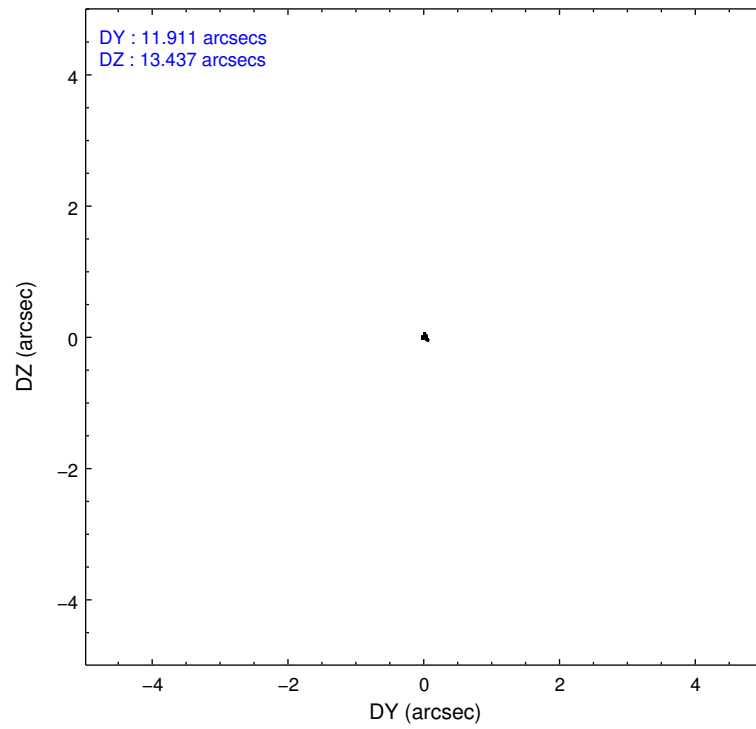
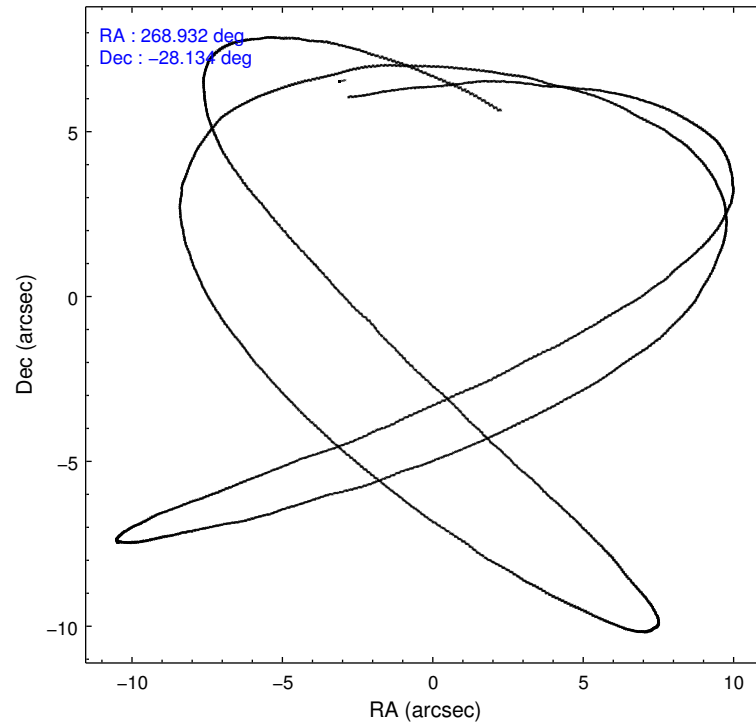
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	19285	19345	20898	19573	22844
rejected events	17309	17161	18916	17717	13658
rejected %	89%	88%	90%	90%	59%

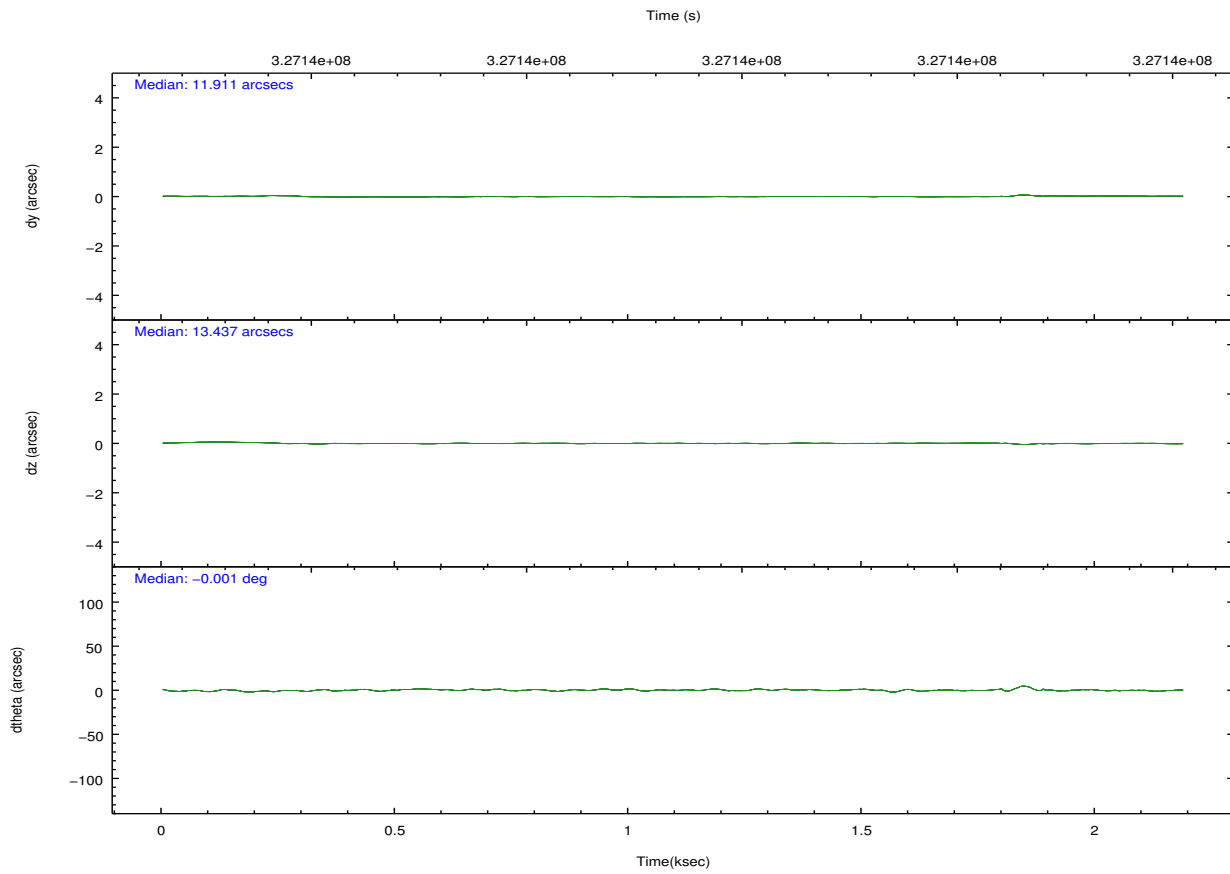
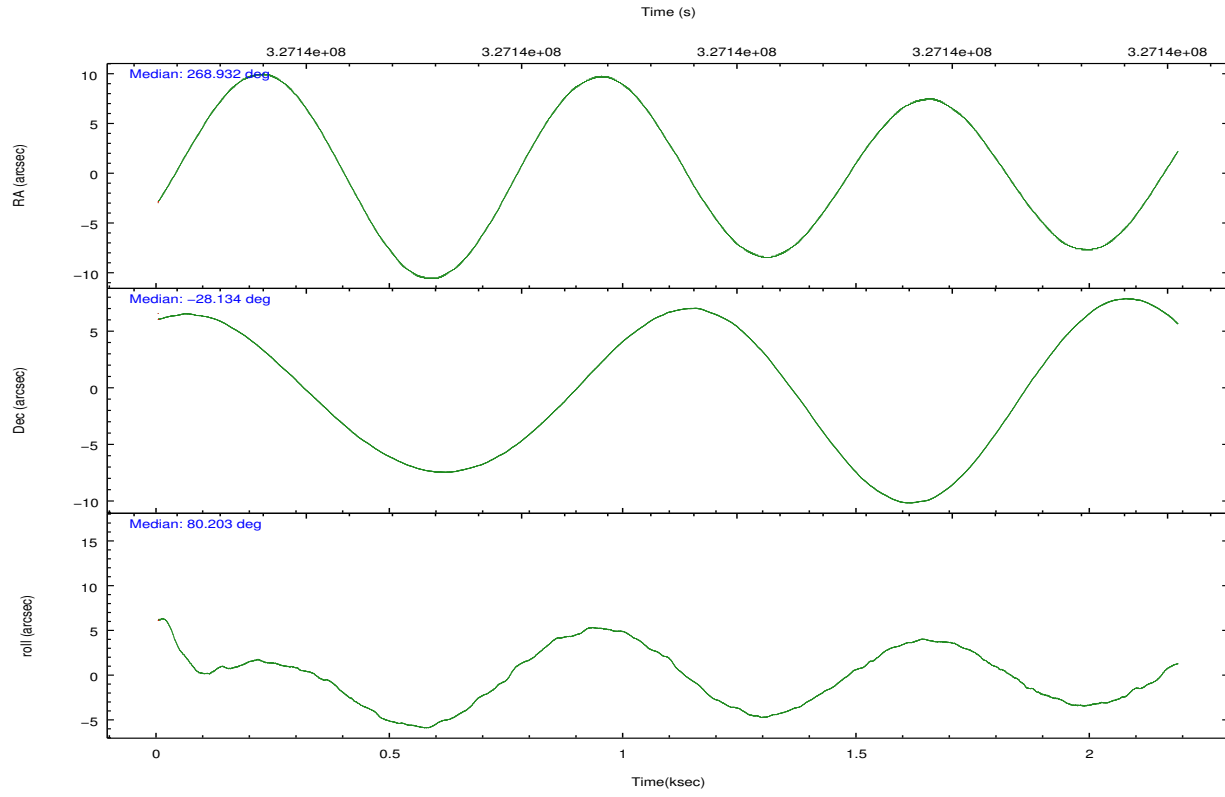
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	969	1081	956	891	1051
	5%	5%	4%	4%	4%
grade 1 events	12	14	17	17	27
	0%	0%	0%	0%	0%
grade 2 events	479	493	494	441	2094
	2%	2%	2%	2%	9%
grade 3 events	214	235	243	216	1034
	1%	1%	1%	1%	4%
grade 4 events	194	233	212	205	1033
	1%	1%	1%	1%	4%
grade 5 events	647	793	651	809	2385
	3%	4%	3%	4%	10%
grade 6 events	405	461	350	395	5369
	2%	2%	1%	2%	23%
grade 7 events	16365	16035	17975	16599	9851
	84%	82%	86%	84%	43%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	268.943200	268.9322626473294	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.159622	-28.13366090974014	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004271	80.20780947768887	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	327138942.184000	327138565.61689	CCD S5 on	N	N
Observation start date	2008-05-14T07:54:37	2008-05-14T07:49:25	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327140942.184000	327141075.84201	On-chip summing requested	N	N
Observation end date	2008-05-14T08:27:57	2008-05-14T08:31:15	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





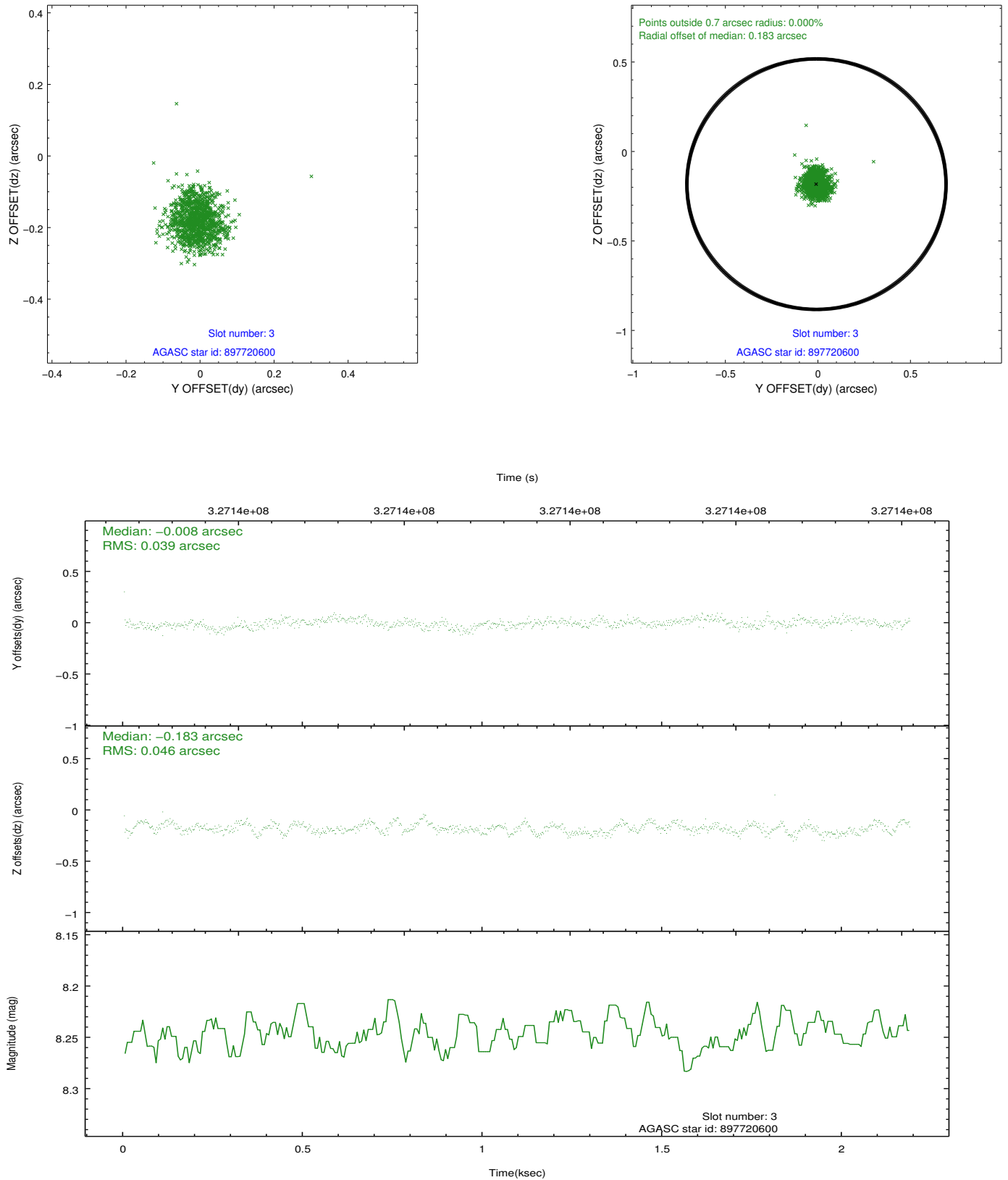
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.06	533	-0.069	0.046	0.008	0.013	0.000000	0.000000	927.54	-836.97
1	FID	ACIS-I-4	7.00	534	0.051	0.040	0.009	0.016	0.000000	0.000000	2149.40	1061.31
2	FID	ACIS-I-6	7.06	534	-0.079	-0.020	0.008	0.015	0.000000	0.000000	397.32	1706.86
3	GUIDE	897720600	8.25	1067	-0.008	-0.183	0.063	0.097	268.319864	-27.628963	1530.50	2288.61
4	GUIDE	898238128	7.70	1067	0.078	-0.068	0.057	0.099	268.450740	-28.688500	-2147.24	1202.35
5	GUIDE	898258992	7.99	1067	0.121	0.179	0.061	0.093	269.435214	-28.570389	-1191.68	-1788.19
6	GUIDE	897712808	8.71	1067	-0.268	-0.114	0.072	0.114	268.777505	-27.542029	2095.26	905.06
7	GUIDE	898236888	8.69	1066	0.070	0.184	0.077	0.120	269.539947	-28.141730	389.38	-1854.31

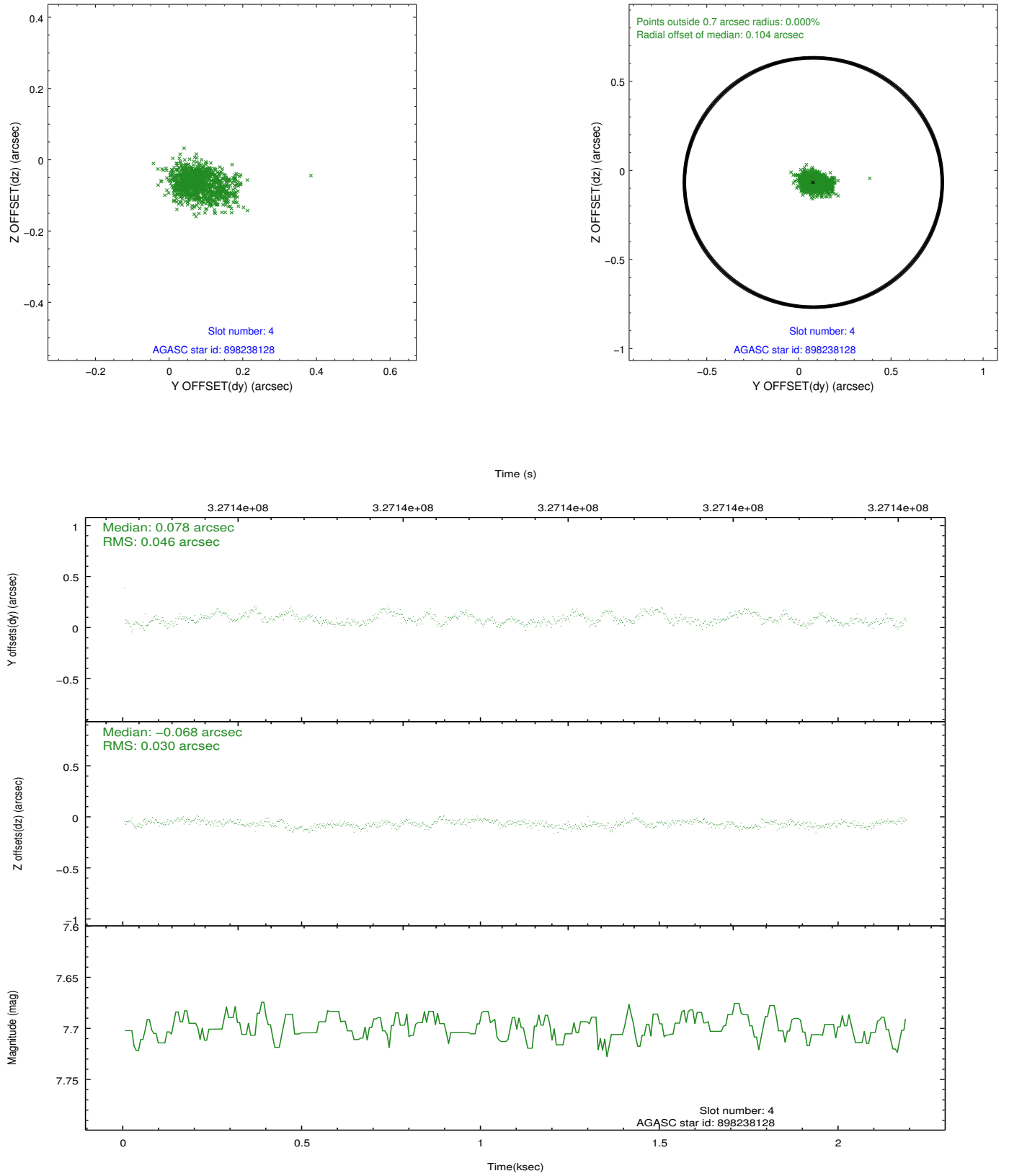


## 2.4 Star Slots

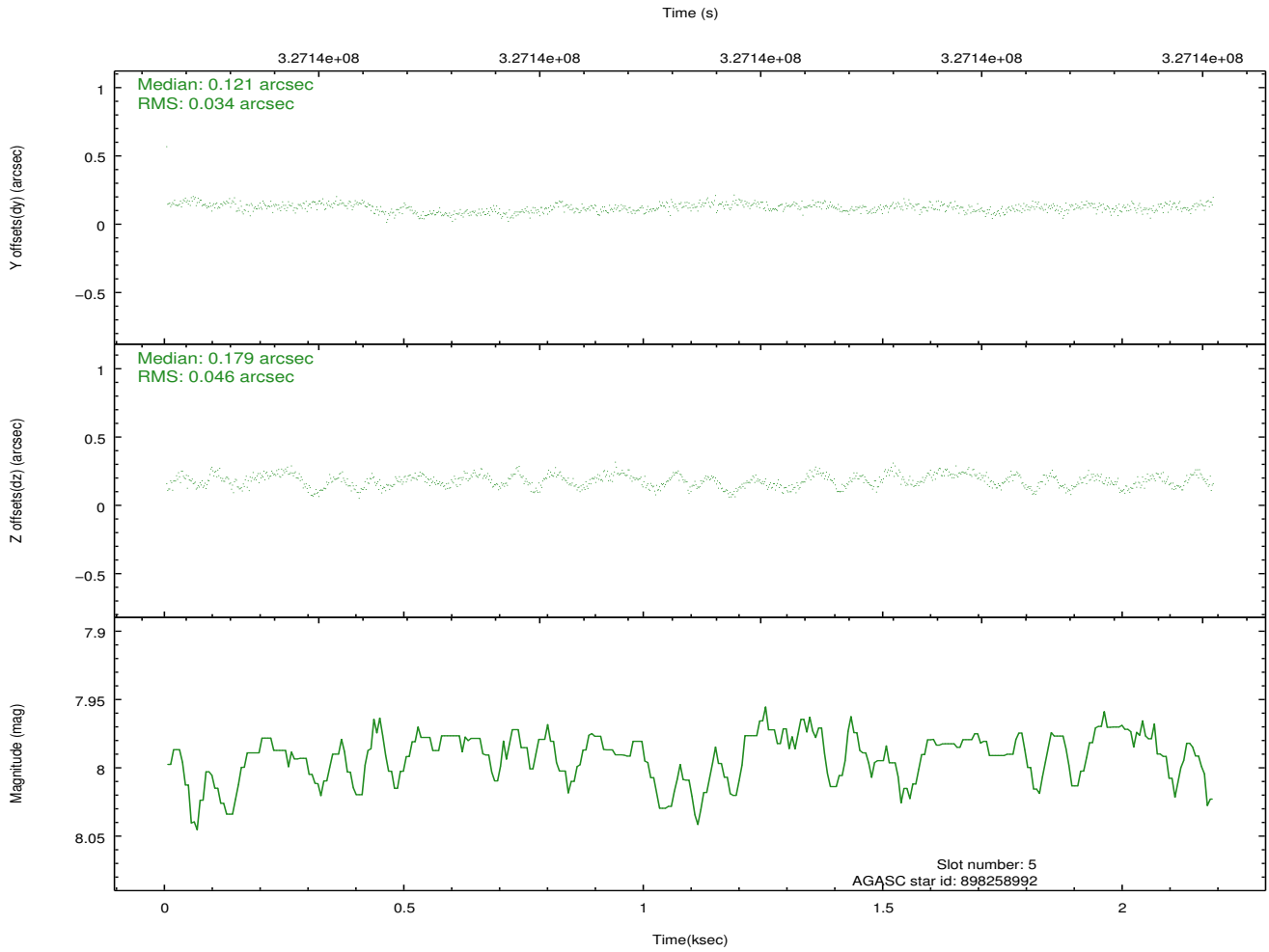
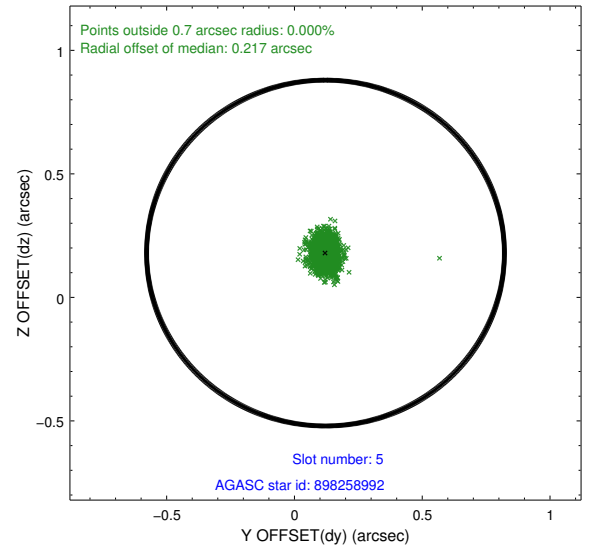
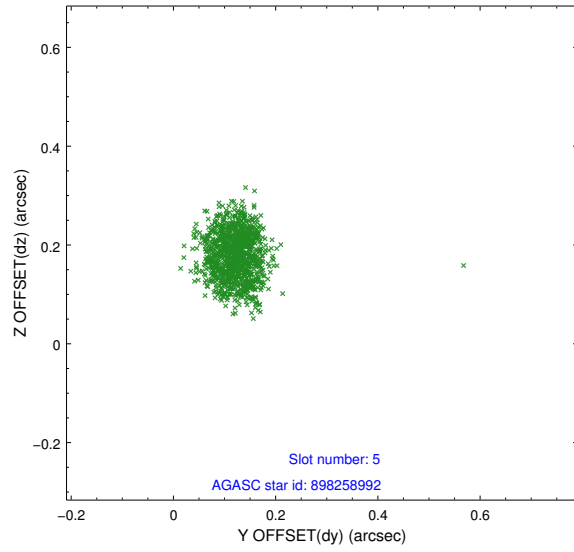
### 2.4.1 Slot 3



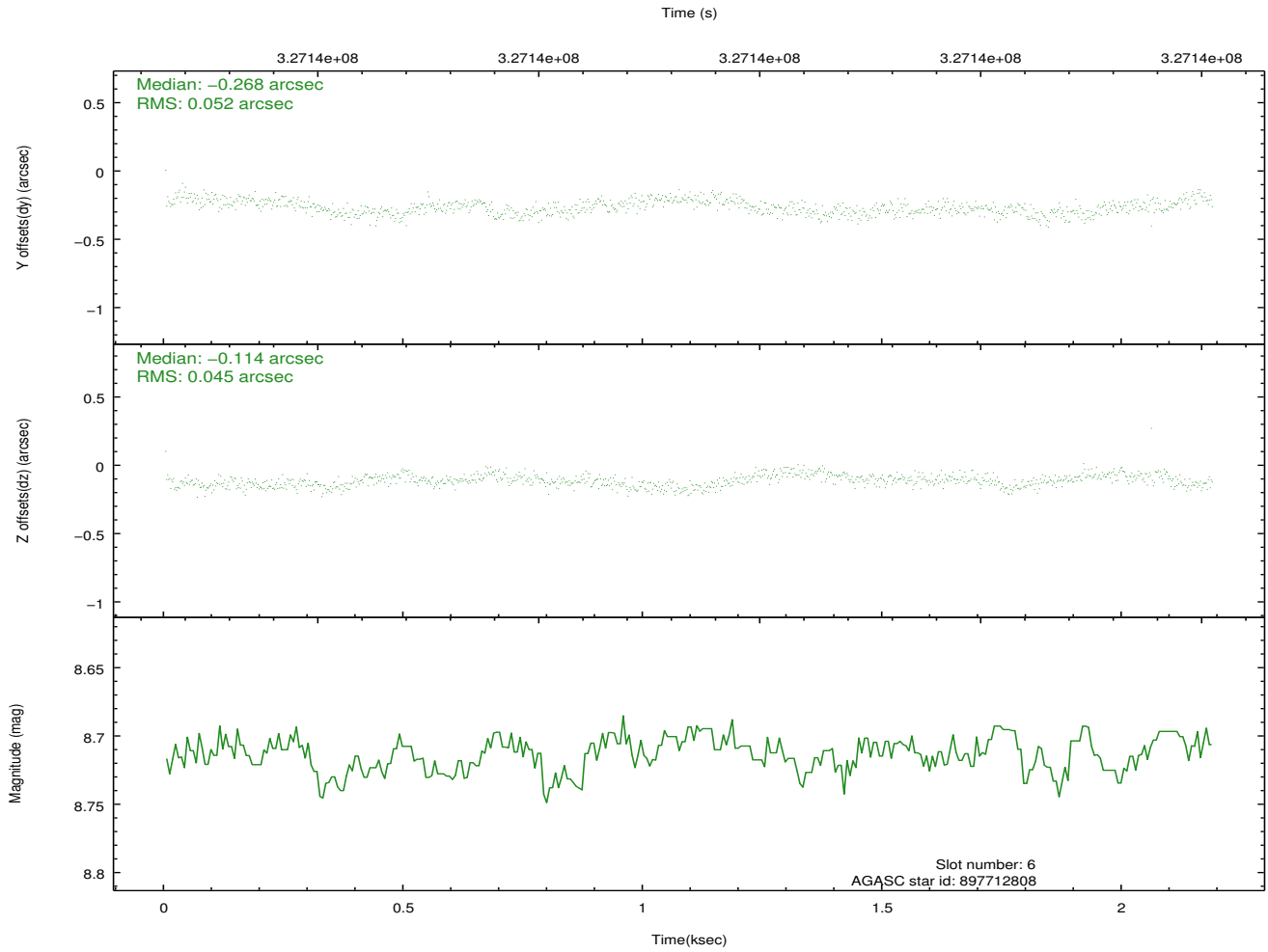
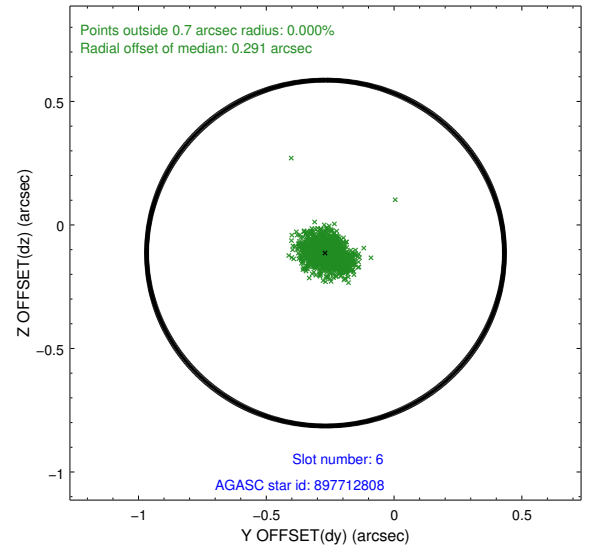
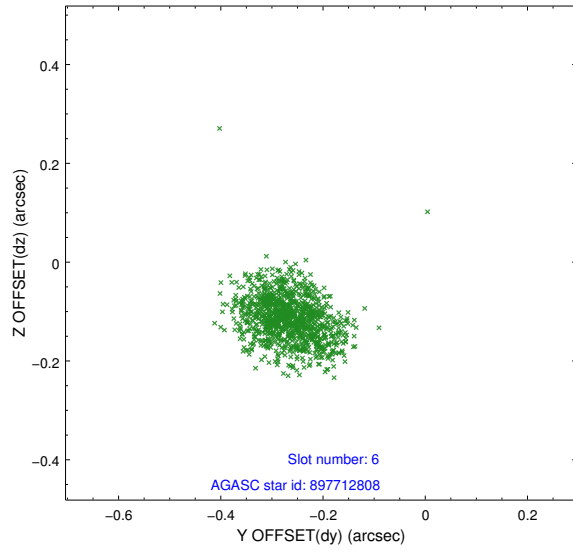
## 2.4.2 Slot 4



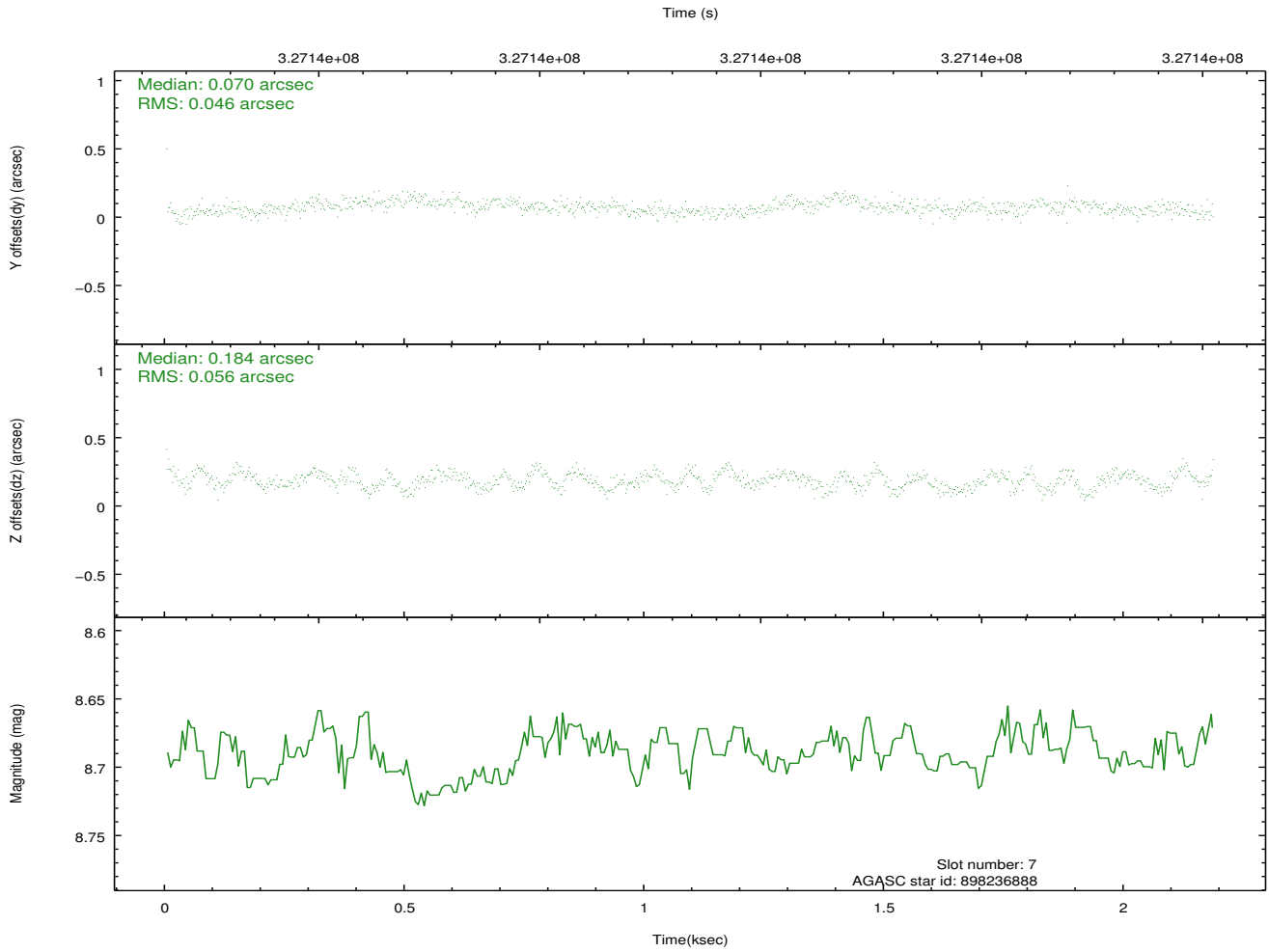
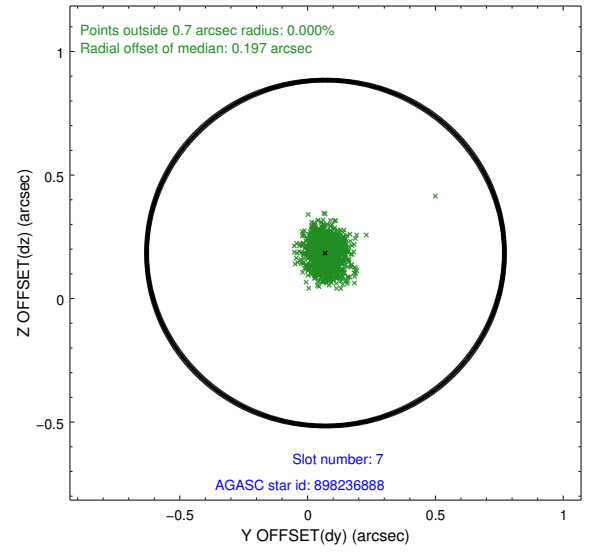
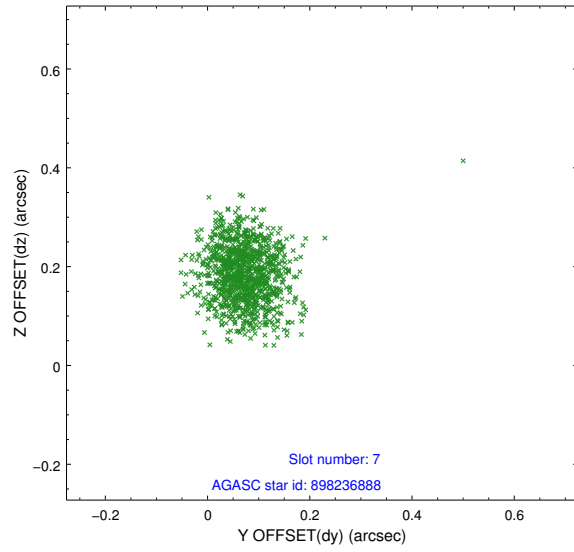
### 2.4.3 Slot 5



## 2.4.4 Slot 6

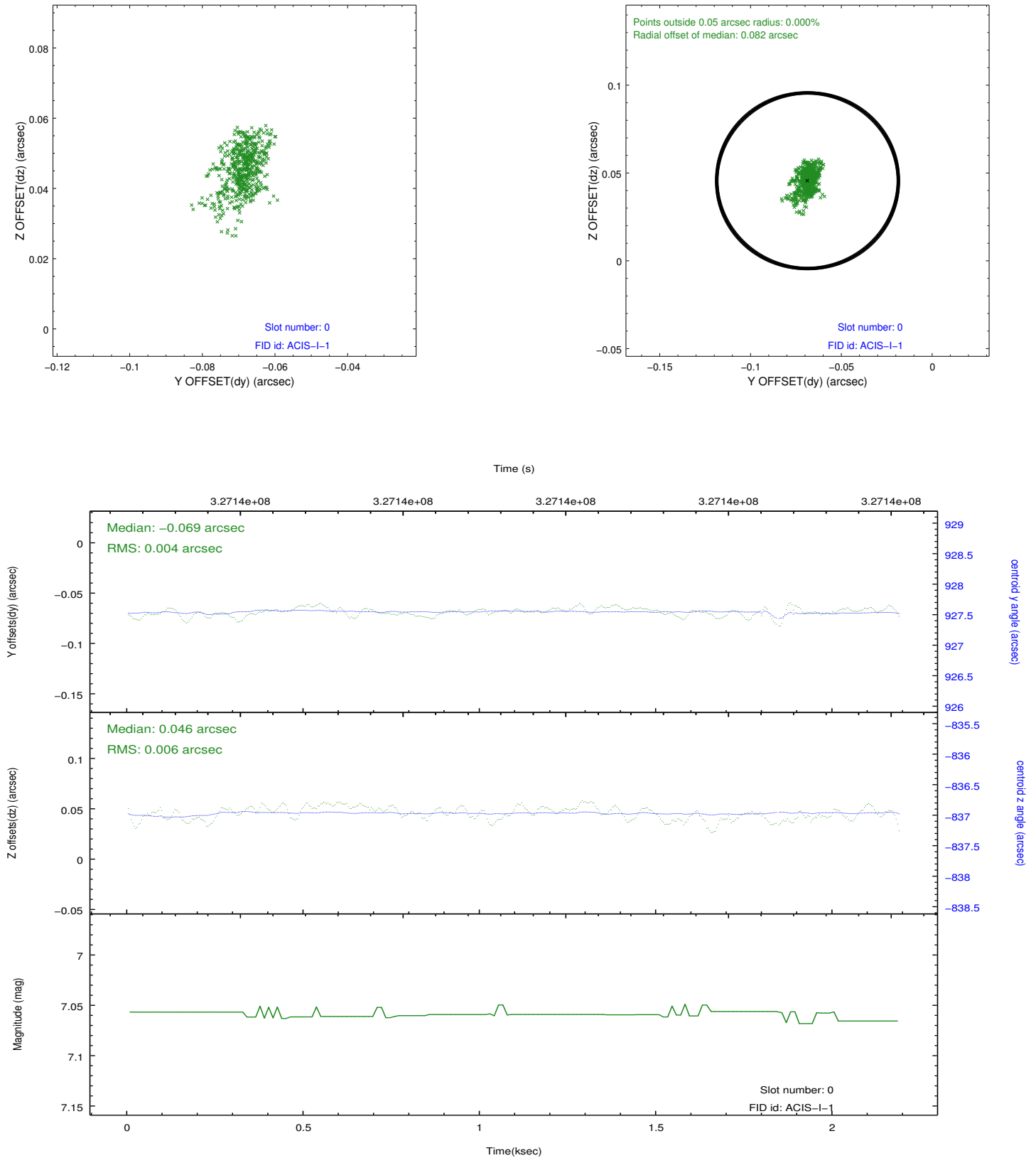


## 2.4.5 Slot 7

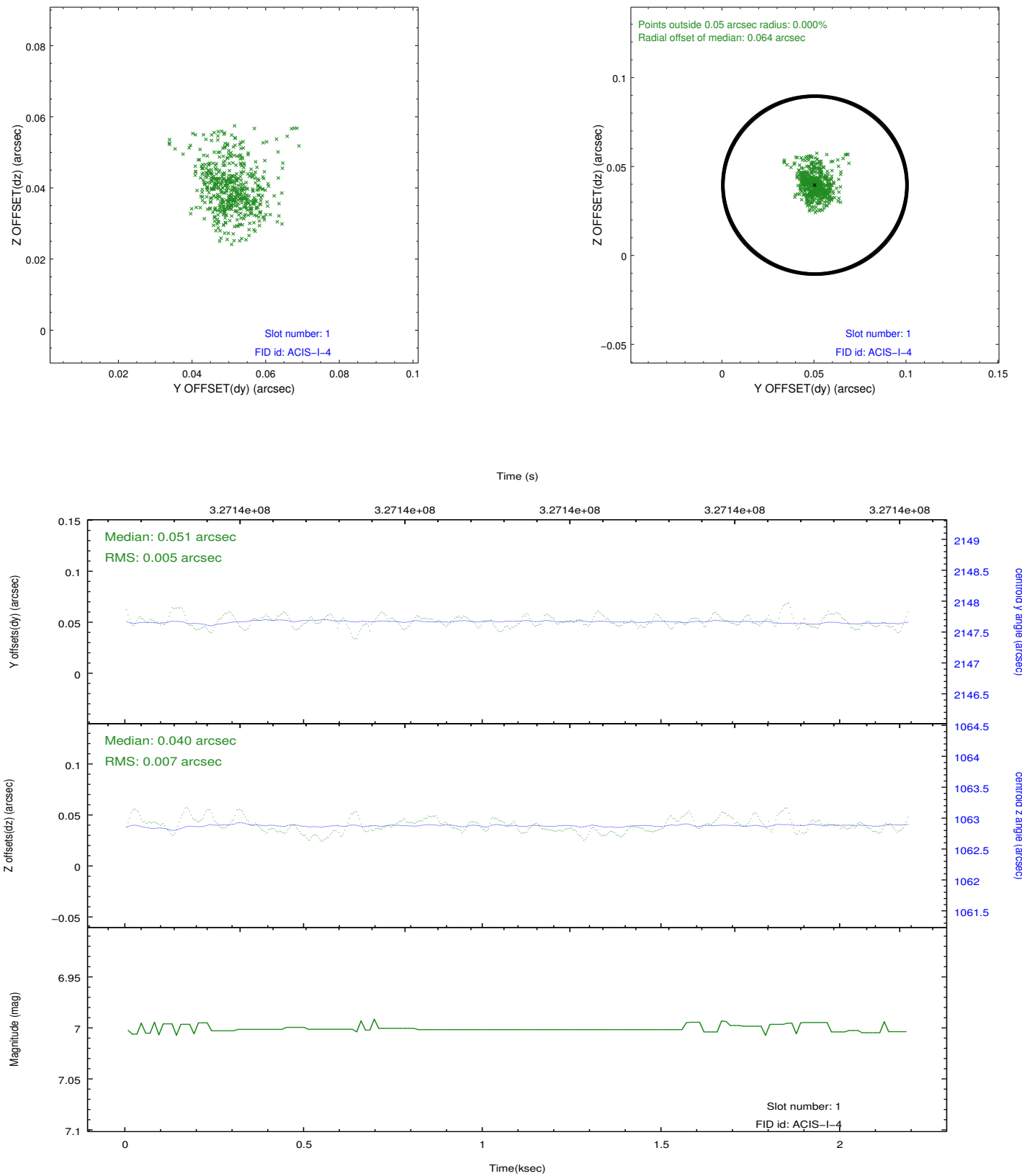


## 2.5 FID Slots

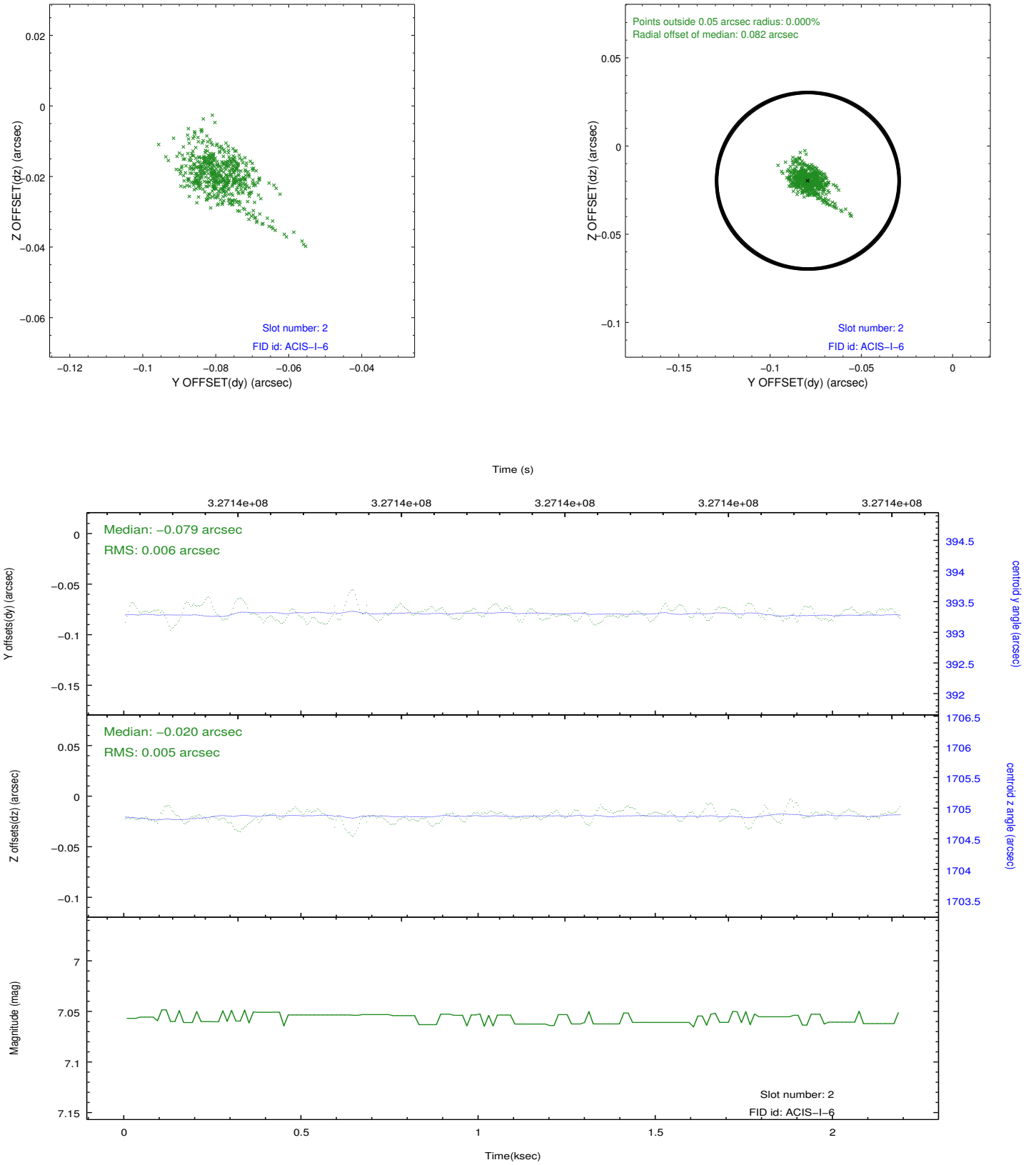
### 2.5.1 Slot 0



## 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)	2012.05.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18550001

### A.2 Comments

Joint proposal with NOAO.