

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8701 - L2 Version 2  
Chandra X-Ray Center

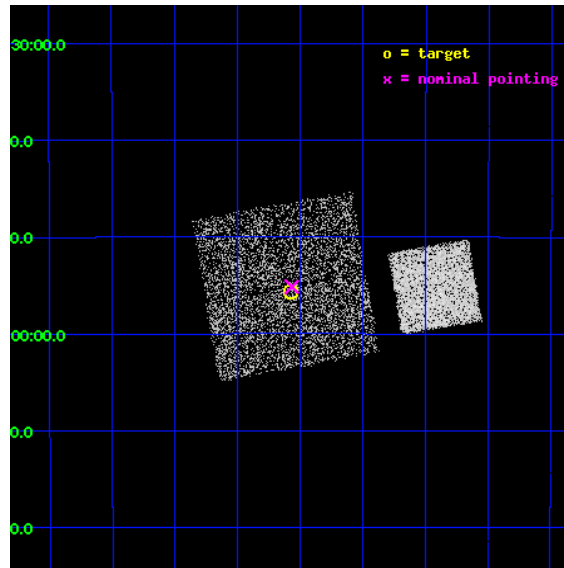
L2 Processing Date : May 15 2012

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# 1 Front

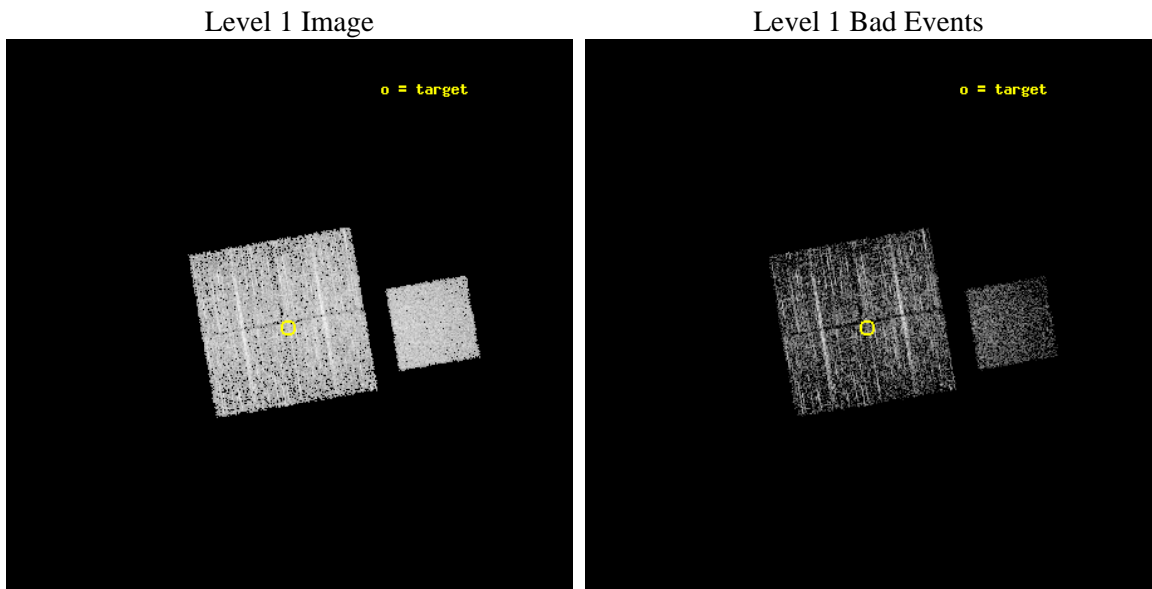
seq_num	400752	Sequence number
obs_id	8701	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO6	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.39268	Observer's specified target RA [deg]
dec_targ	-28.927266	Observer's specified target Dec [deg]
ra_nom	264.3914582324	Nominal RA [deg]
dec_nom	-28.919288778767	Nominal Dec [deg]
roll_nom	80.208112706087	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	2182.3590165377	Sum of GTIs [s]
ontime3	2185.5000168085	Sum of GTIs [s]
ontime7	2185.5000168085	Sum of GTIs [s]
l2events	16092	Number of level 2 events



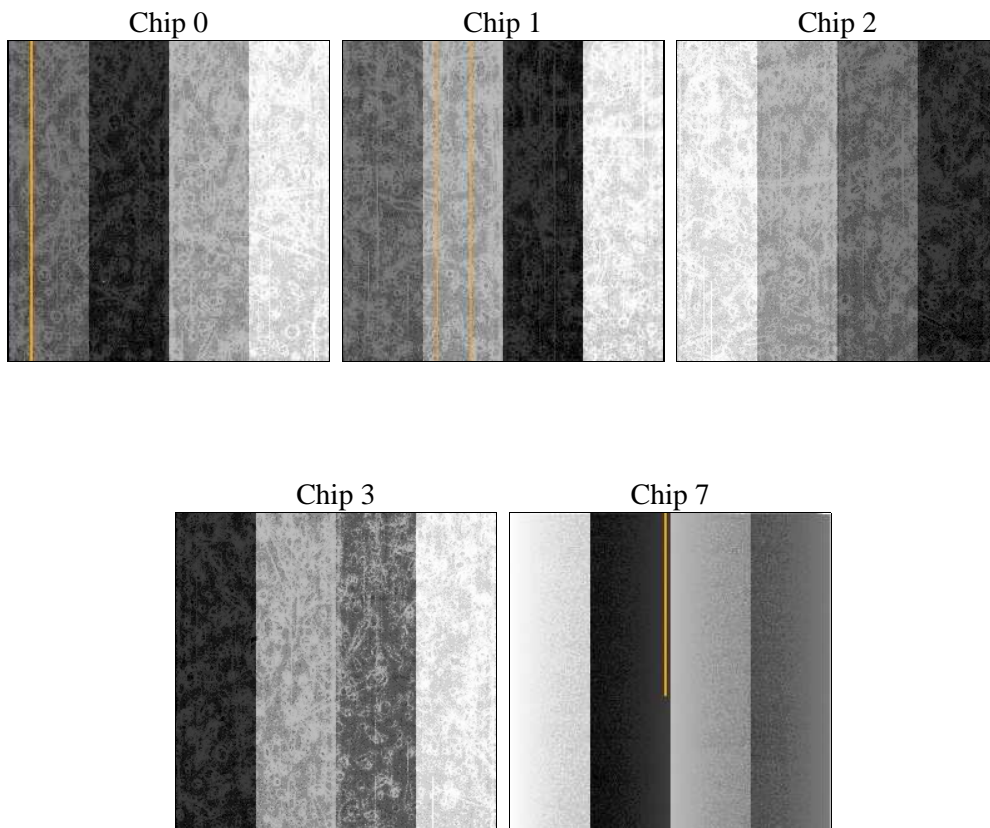
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	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	2012-05-15T03:11:08	Date and time of file creation	ontime1	2185.5000168085	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2182.3590165377	Sum of GTIs [s]
			ontime3	2185.5000168085	Sum of GTIs [s]
			ontime7	2185.5000168085	Sum of GTIs [s]
			l1events	102859	Number of level 1 events

### 2.1.4 Events

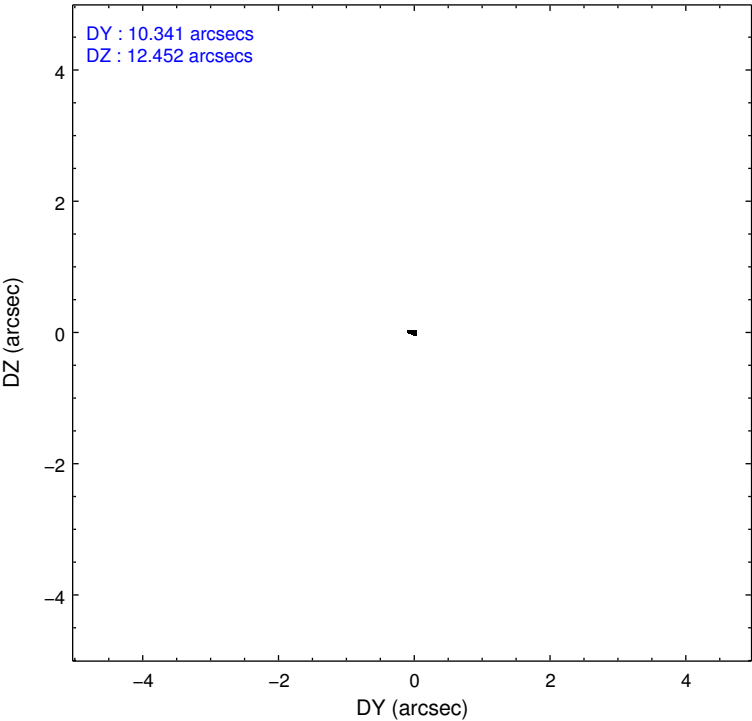
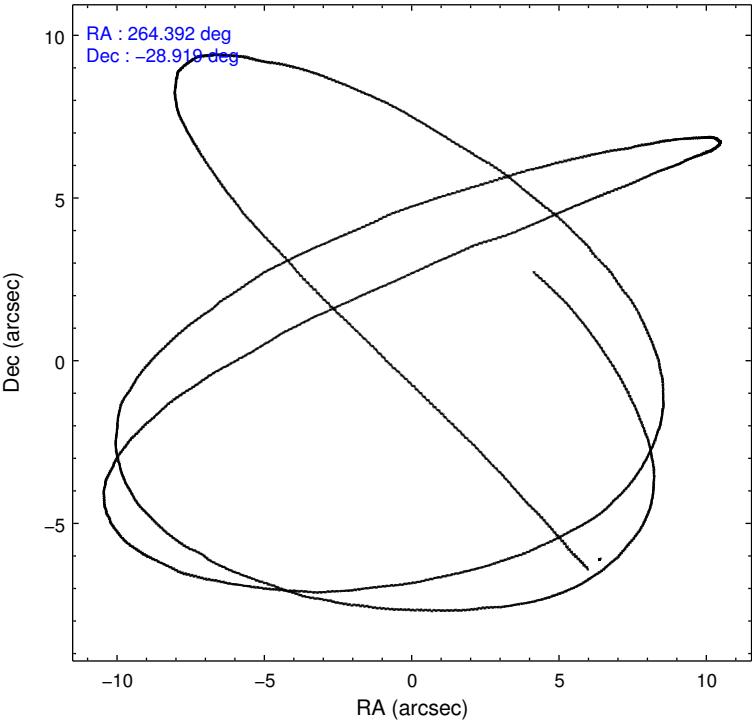
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	18685	19059	22336	19877	22902
rejected events	16574	16729	20401	17878	13560
rejected %	88%	87%	91%	89%	59%

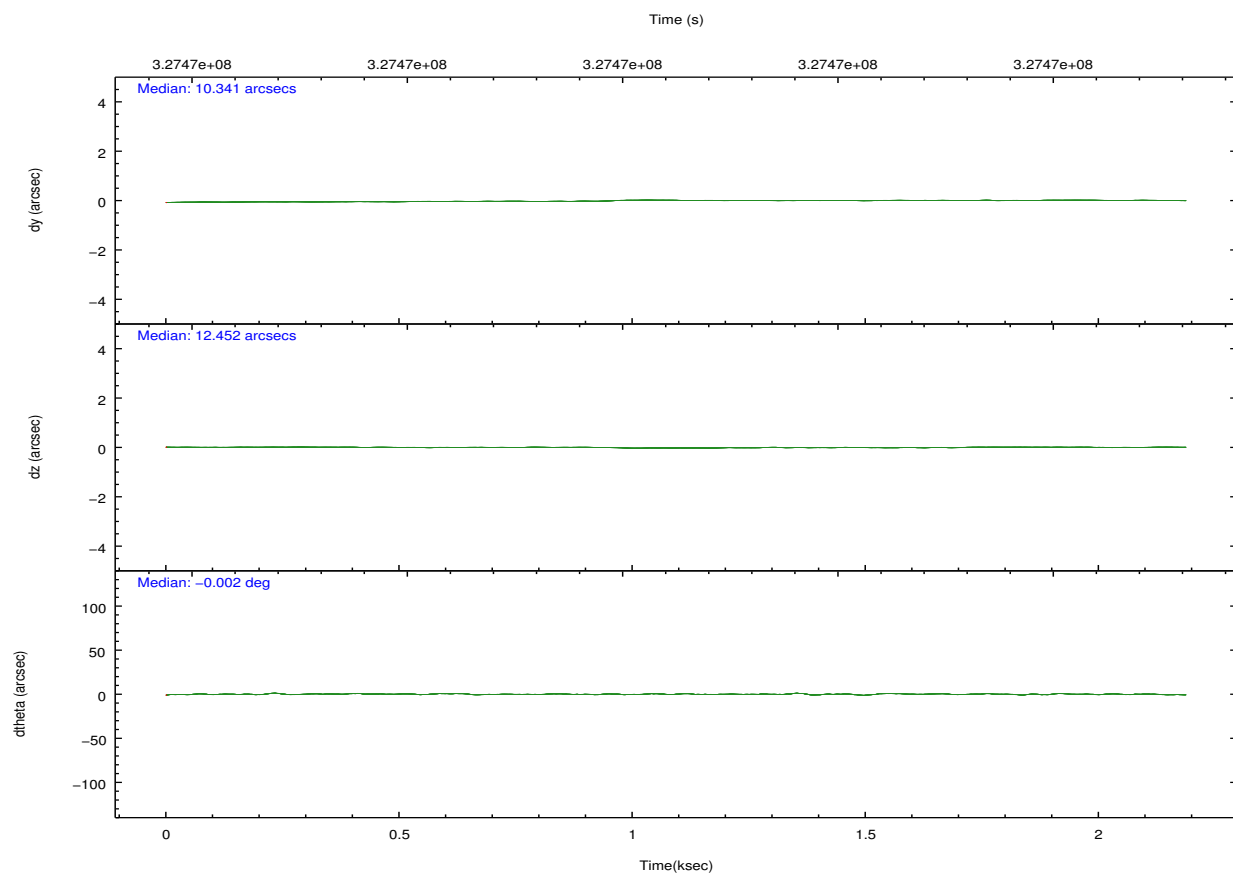
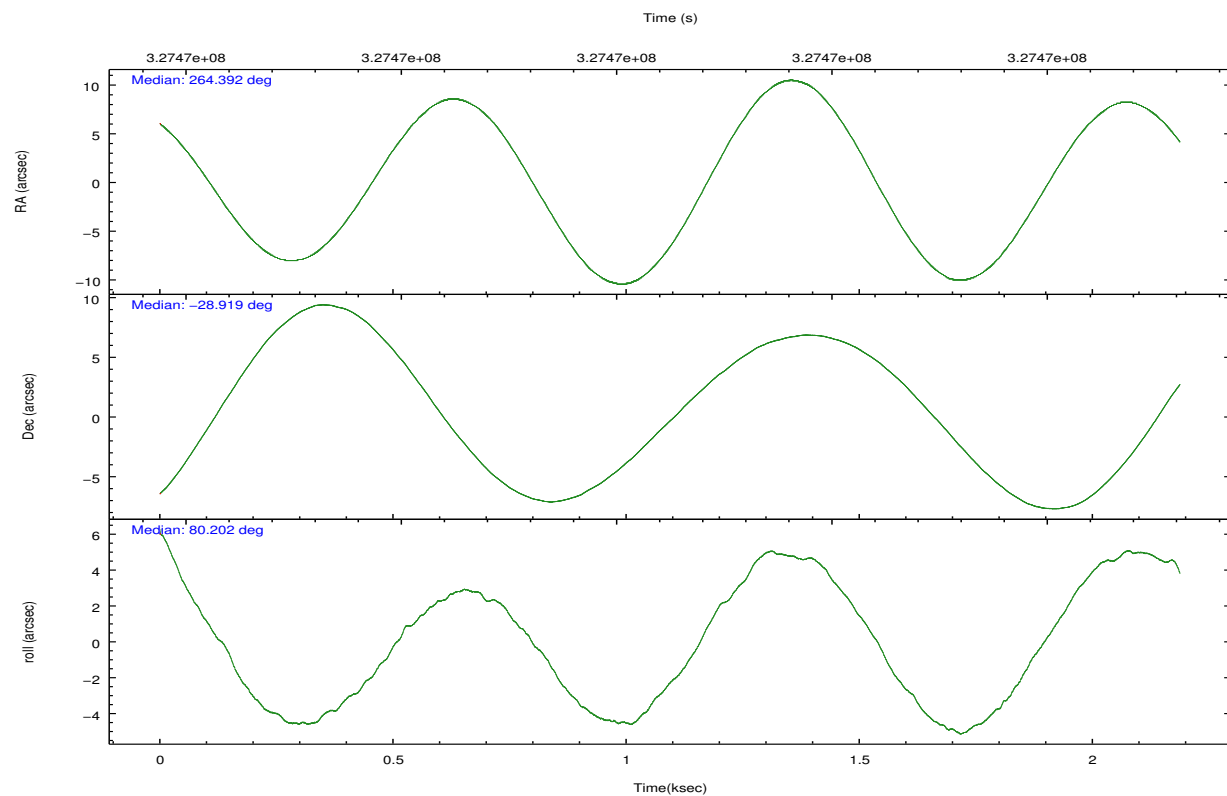
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1014	1147	948	948	1108
	5%	6%	4%	4%	4%
grade 1 events	17	15	13	18	32
	0%	0%	0%	0%	0%
grade 2 events	541	545	500	441	2221
	2%	2%	2%	2%	9%
grade 3 events	221	240	240	252	976
	1%	1%	1%	1%	4%
grade 4 events	232	272	205	225	911
	1%	1%	0%	1%	3%
grade 5 events	674	806	637	820	2406
	3%	4%	2%	4%	10%
grade 6 events	415	485	338	404	5466
	2%	2%	1%	2%	23%
grade 7 events	15571	15549	19455	16769	9782
	83%	81%	87%	84%	42%

## 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	264.402451	264.3914582324048	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.945023	-28.91928877876652	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004727	80.20811270608746	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)	327469724.184000	327469347.99551	CCD S5 on	N	N
Observation start date	2008-05-18T03:47:39	2008-05-18T03:42:27	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327471724.184000	327471857.70813	On-chip summing requested	N	N
Observation end date	2008-05-18T04:20:59	2008-05-18T04:24:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





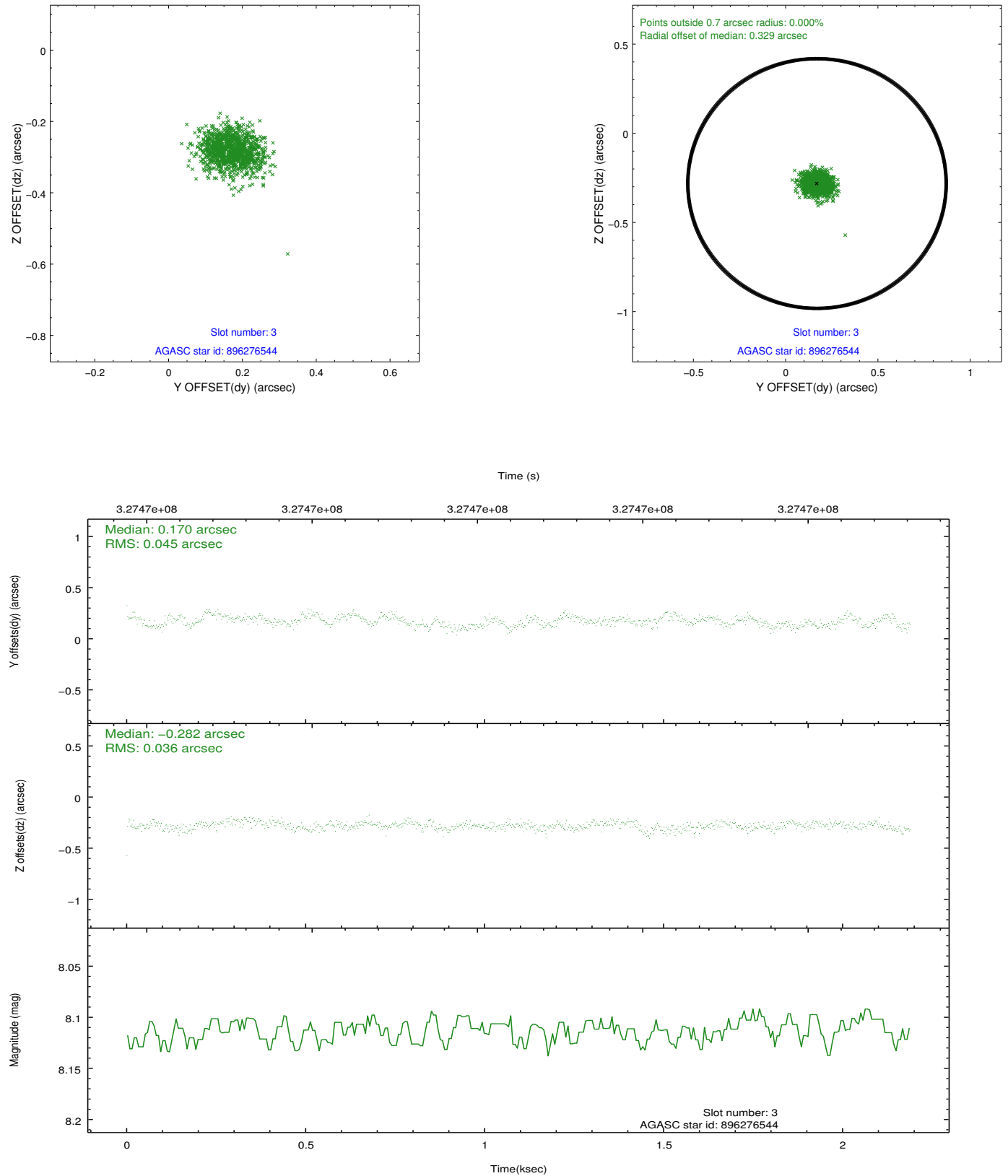
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.04	534	0.054	-0.001	0.007	0.013	0.000000	0.000000	929.31	-835.99
1	FID	ACIS-I-5	7.02	534	-0.194	0.067	0.007	0.013	0.000000	0.000000	-1817.38	1060.10
2	FID	ACIS-I-6	7.03	534	0.049	0.004	0.007	0.011	0.000000	0.000000	391.64	1707.90
3	GUIDE	896276544	8.11	1068	0.170	-0.282	0.061	0.097	263.666616	-29.255819	-1509.97	2080.17
4	GUIDE	896402976	7.47	1068	-0.063	0.145	0.065	0.102	265.099474	-28.923203	451.25	-2148.30
5	GUIDE	896404376	6.67	1068	-0.061	0.095	0.069	0.105	264.835179	-29.530972	-1843.81	-1703.63
6	GUIDE	896405616	7.85	1068	0.017	0.135	0.068	0.112	264.752771	-28.412560	2076.61	-760.76
7	GUIDE	896402712	8.05	1062	-0.069	-0.085	0.059	0.096	263.793333	-28.203661	2290.13	2365.09

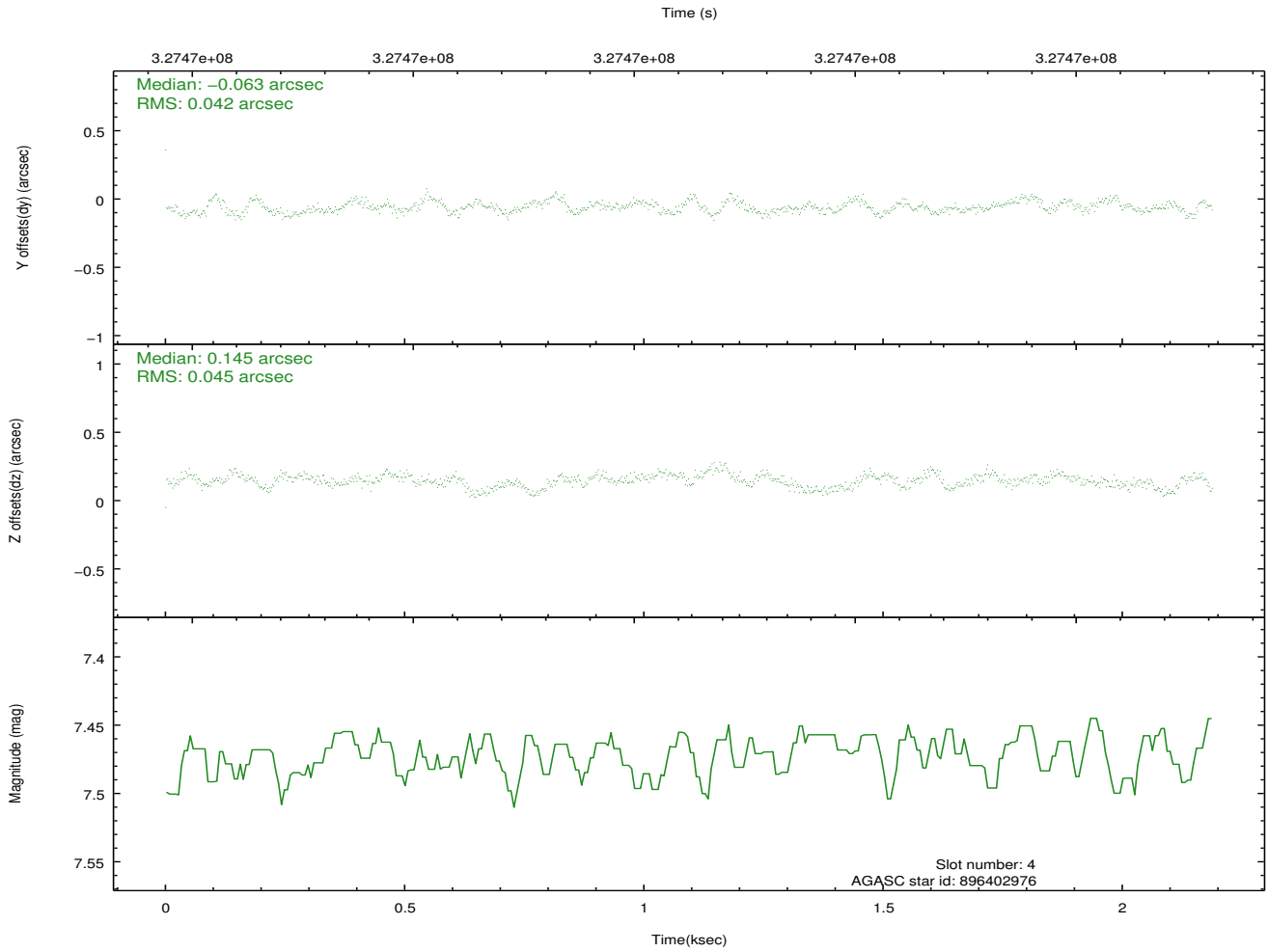
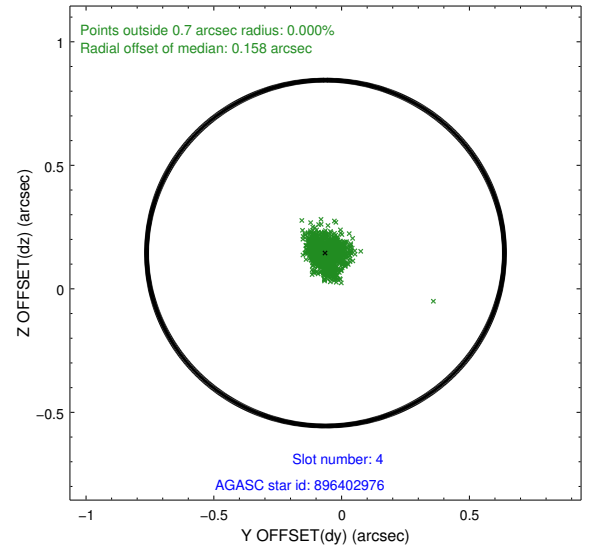
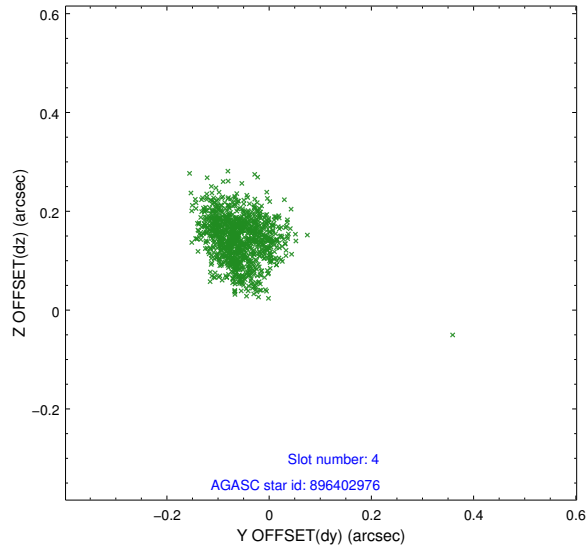


## 2.4 Star Slots

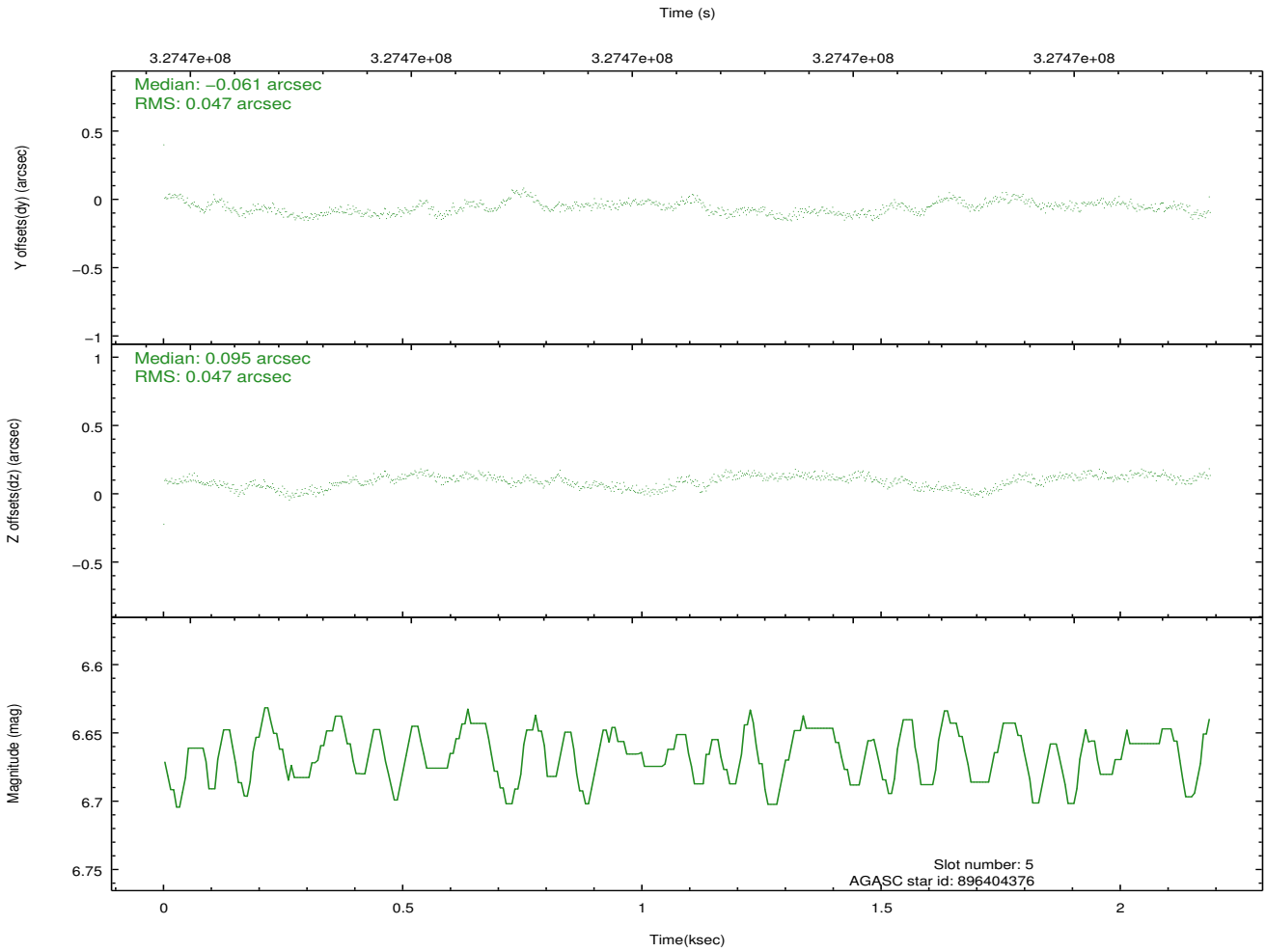
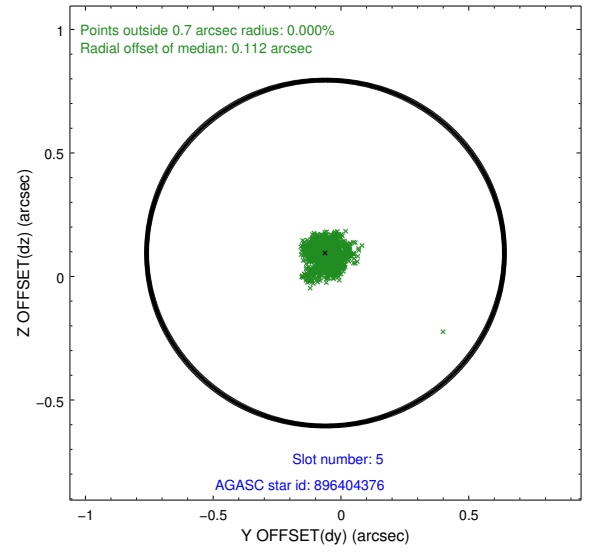
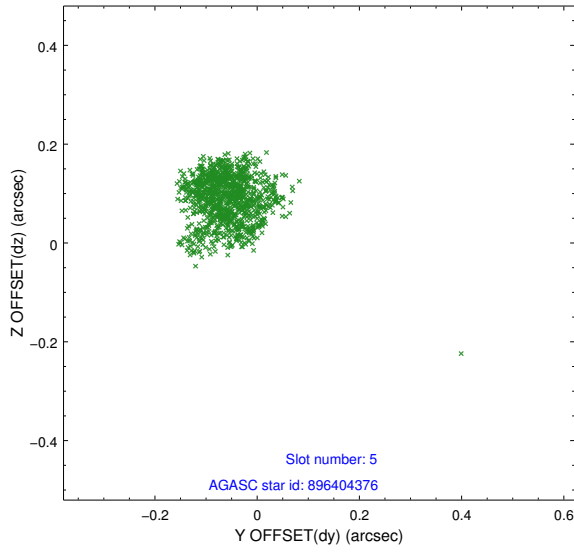
### 2.4.1 Slot 3



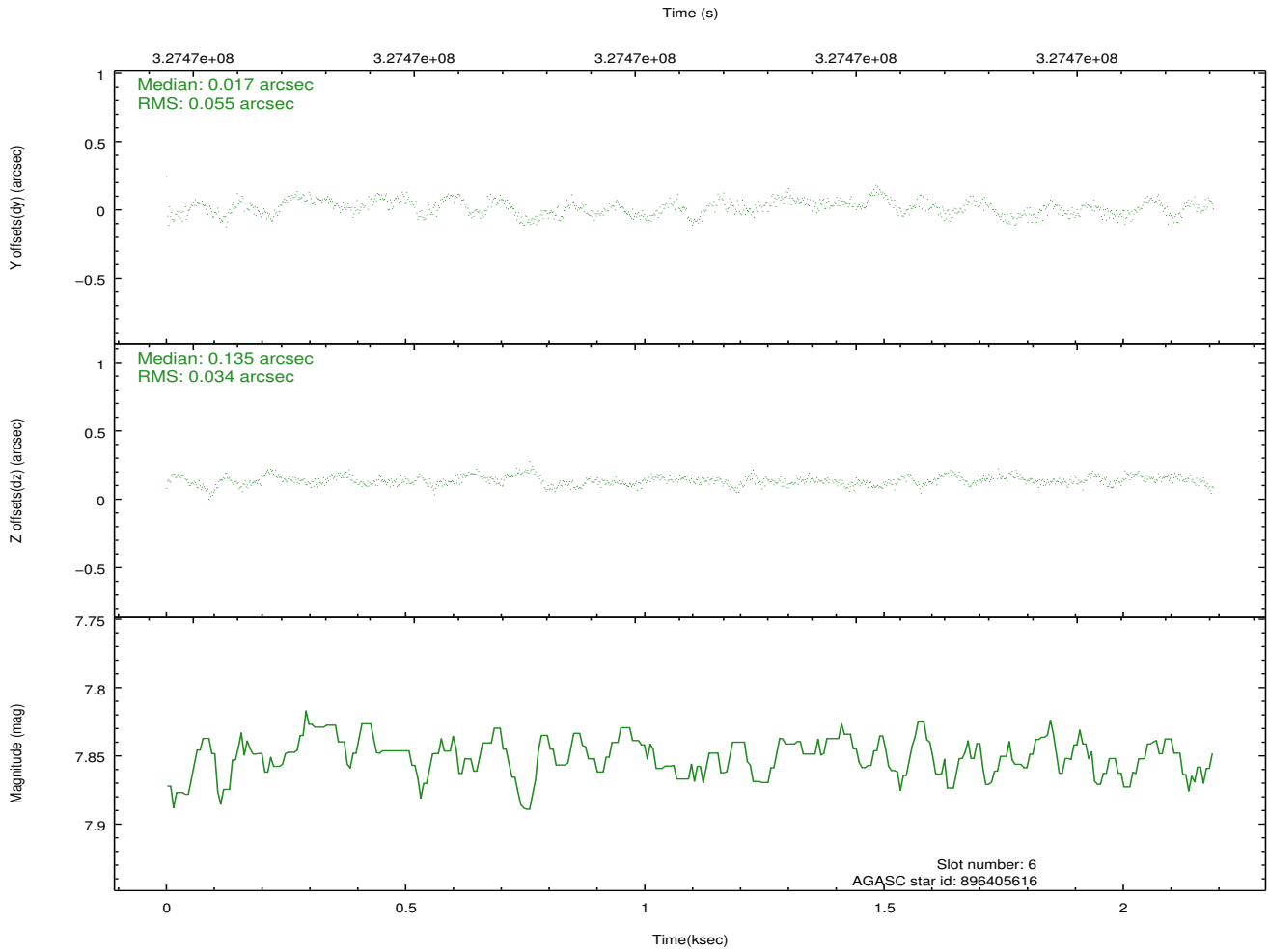
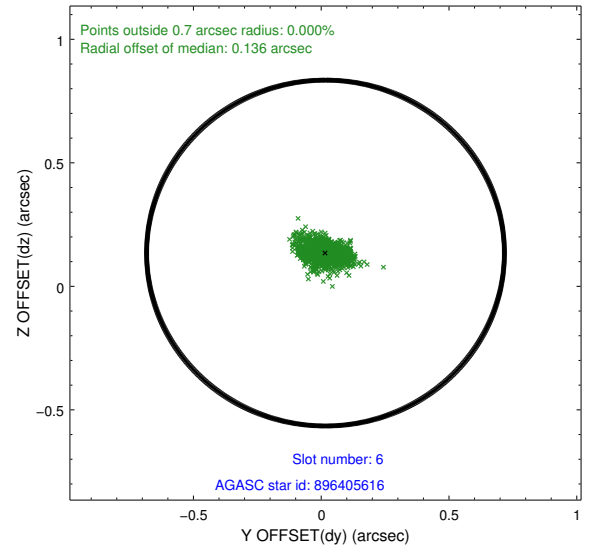
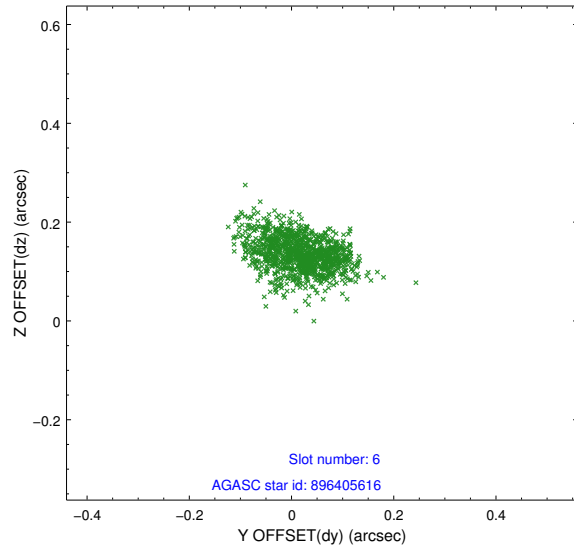
## 2.4.2 Slot 4



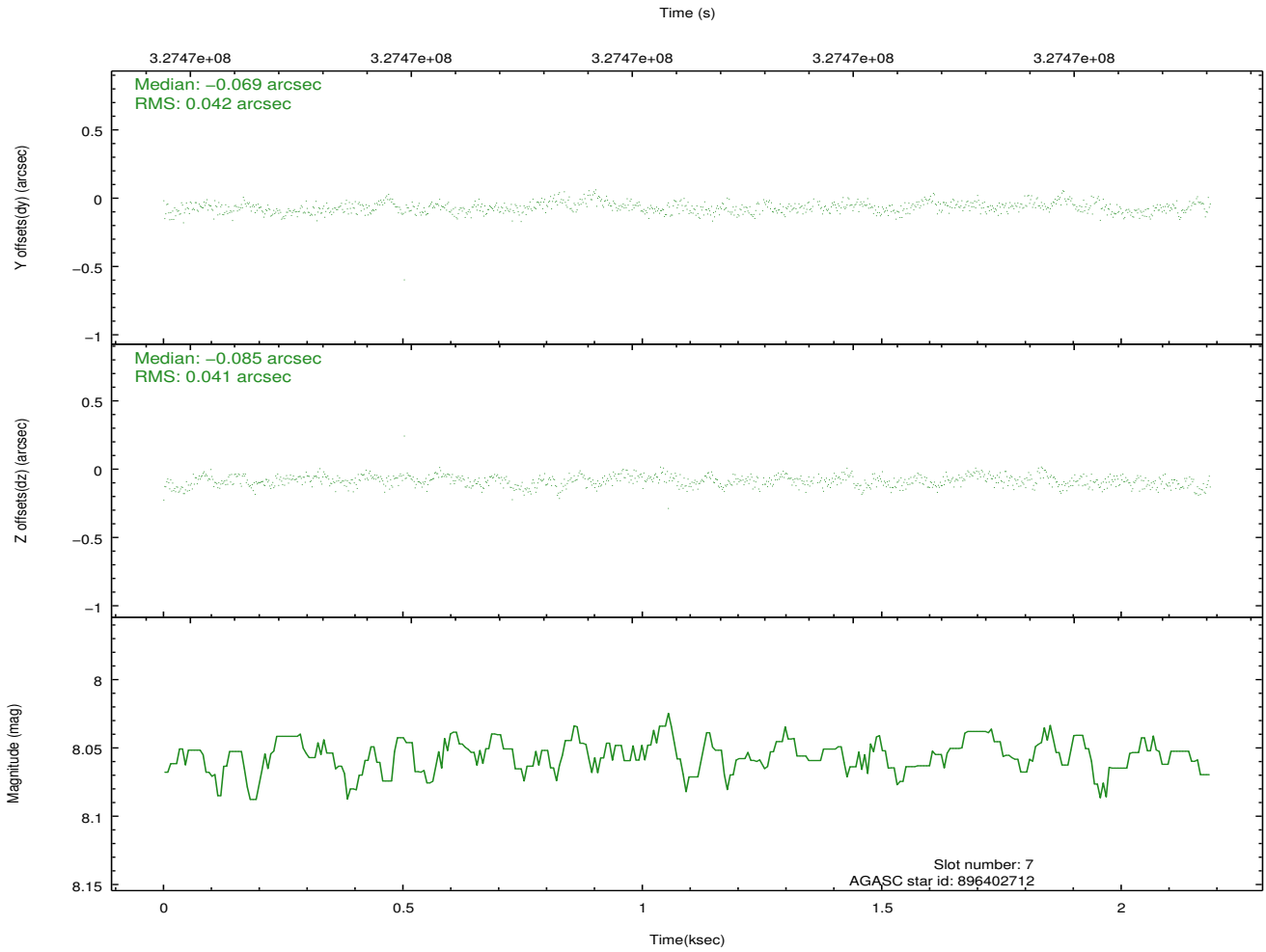
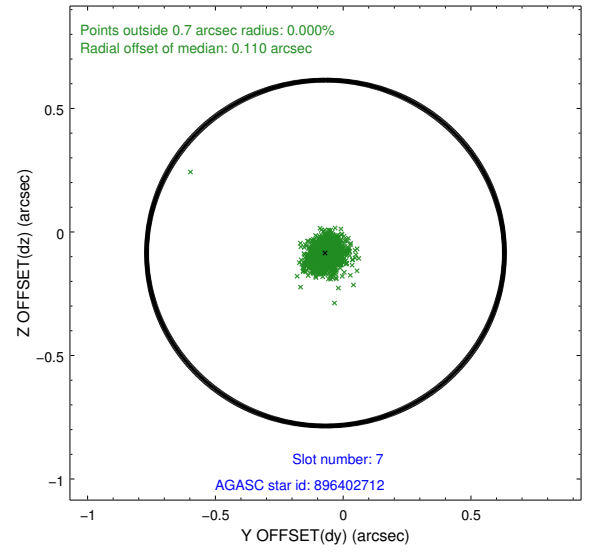
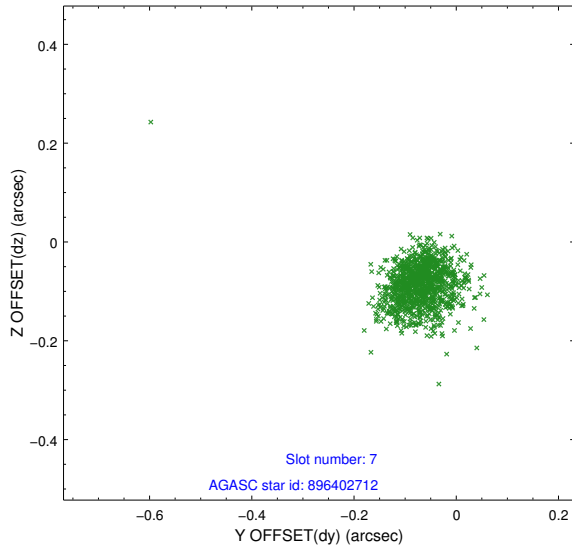
### 2.4.3 Slot 5



## 2.4.4 Slot 6

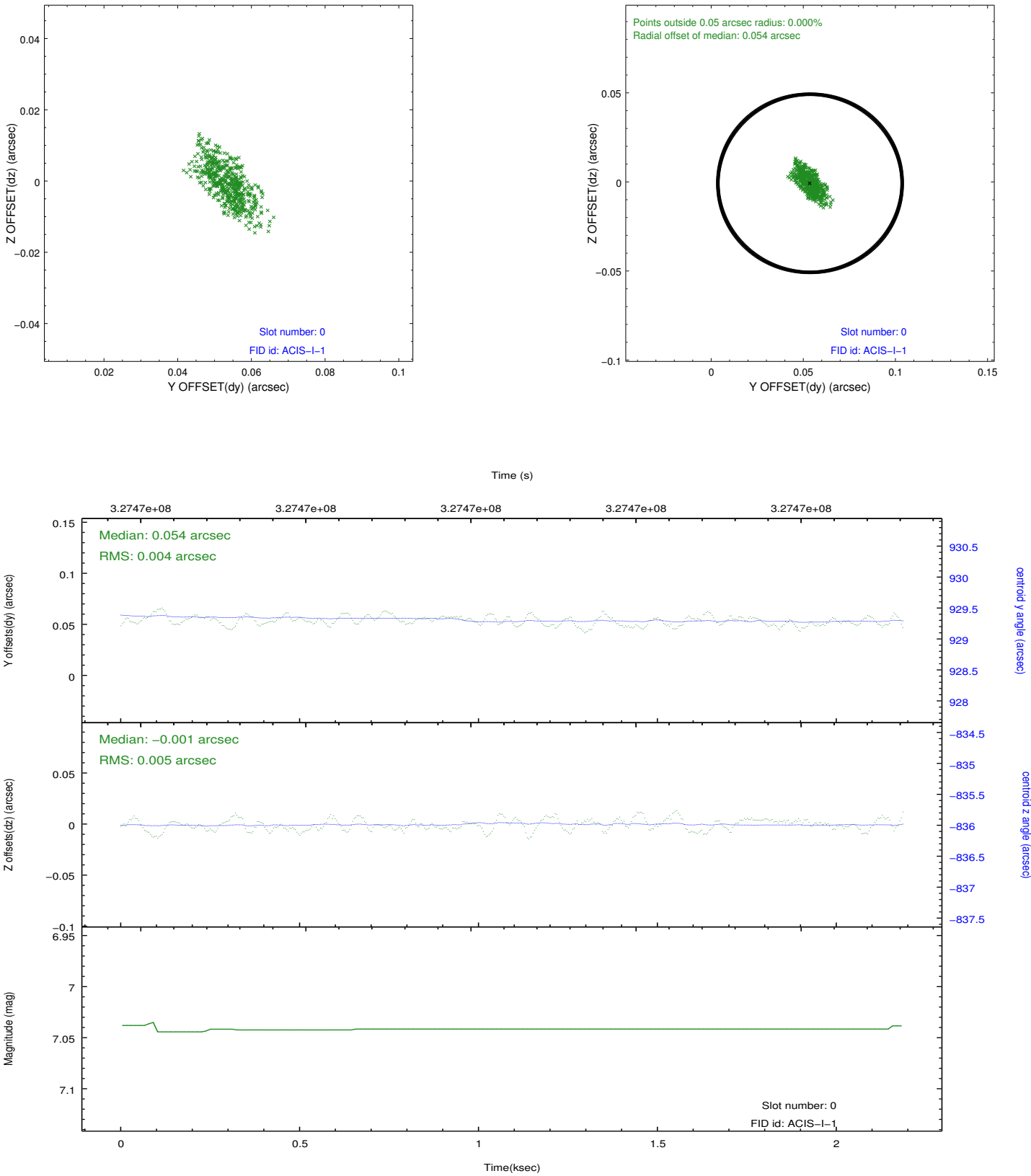


## 2.4.5 Slot 7

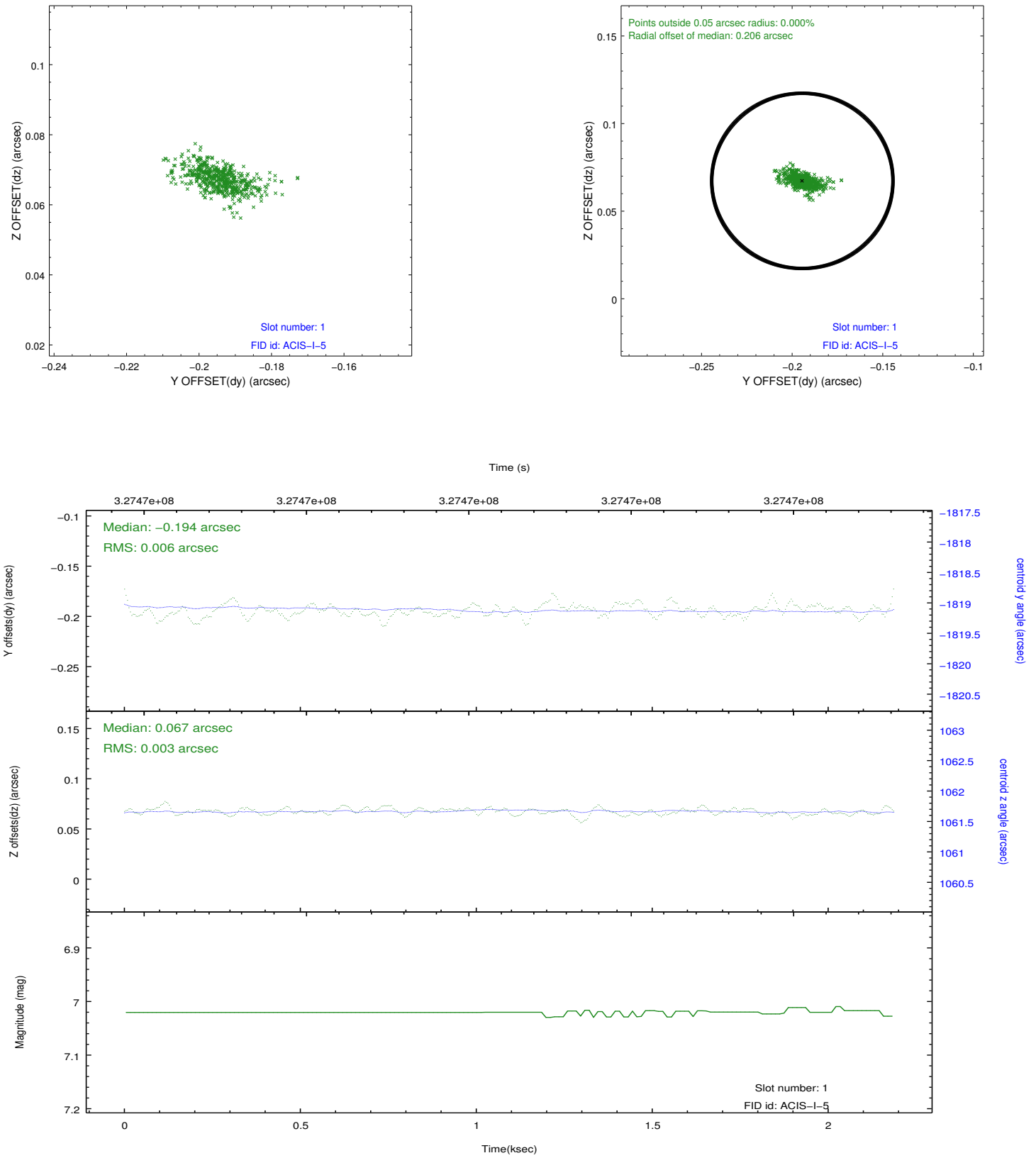


## 2.5 FID Slots

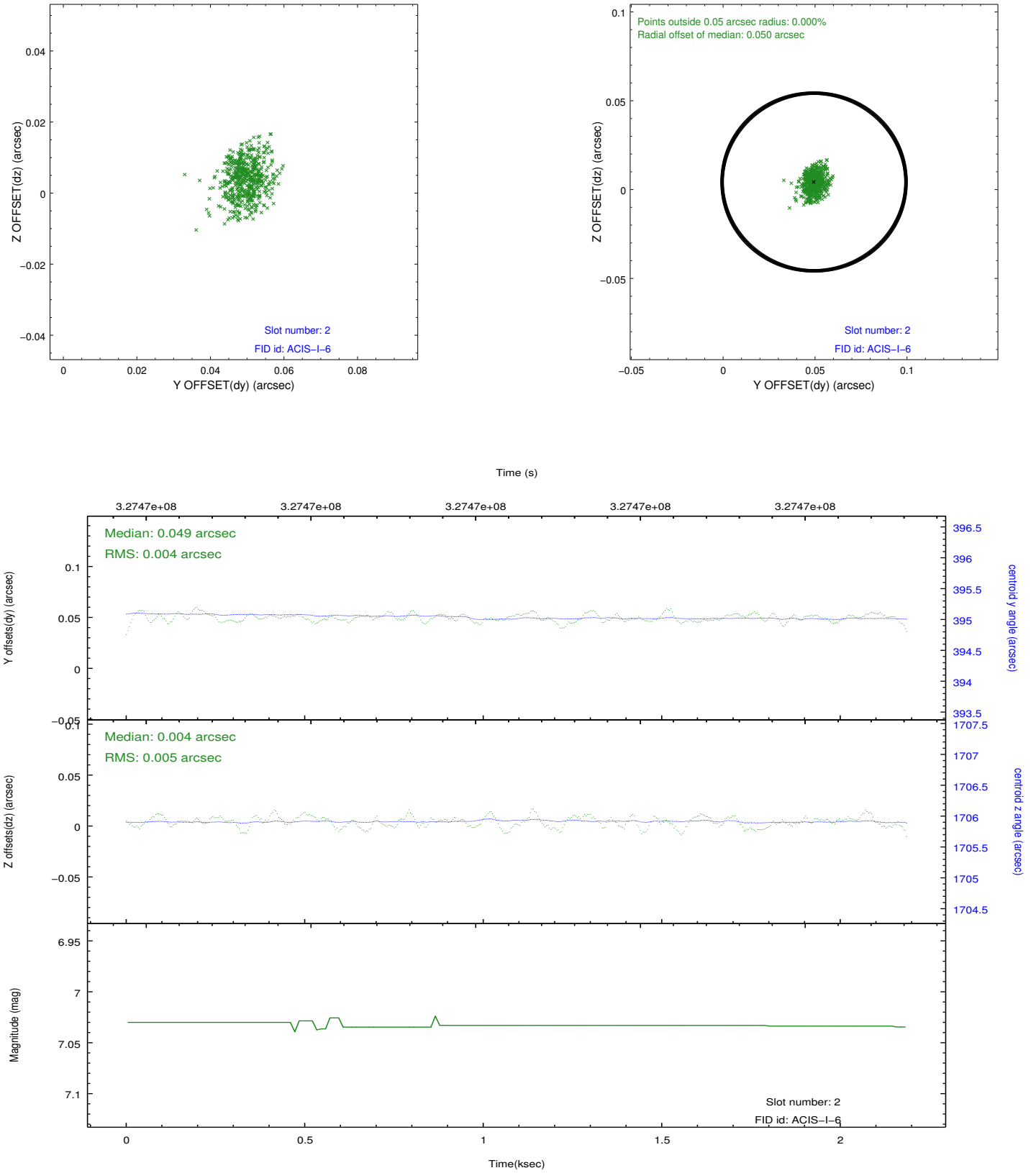
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18550001

### A.2 Comments