

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8691 - L2 Version 2  
Chandra X-Ray Center

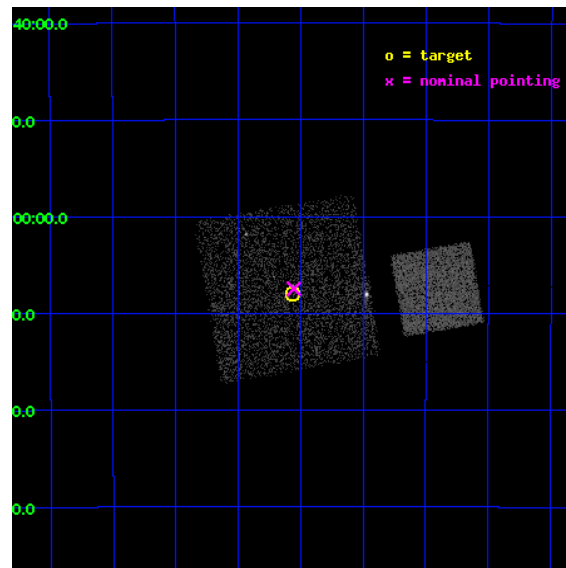
L2 Processing Date : May 15 2012

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# 1 Front

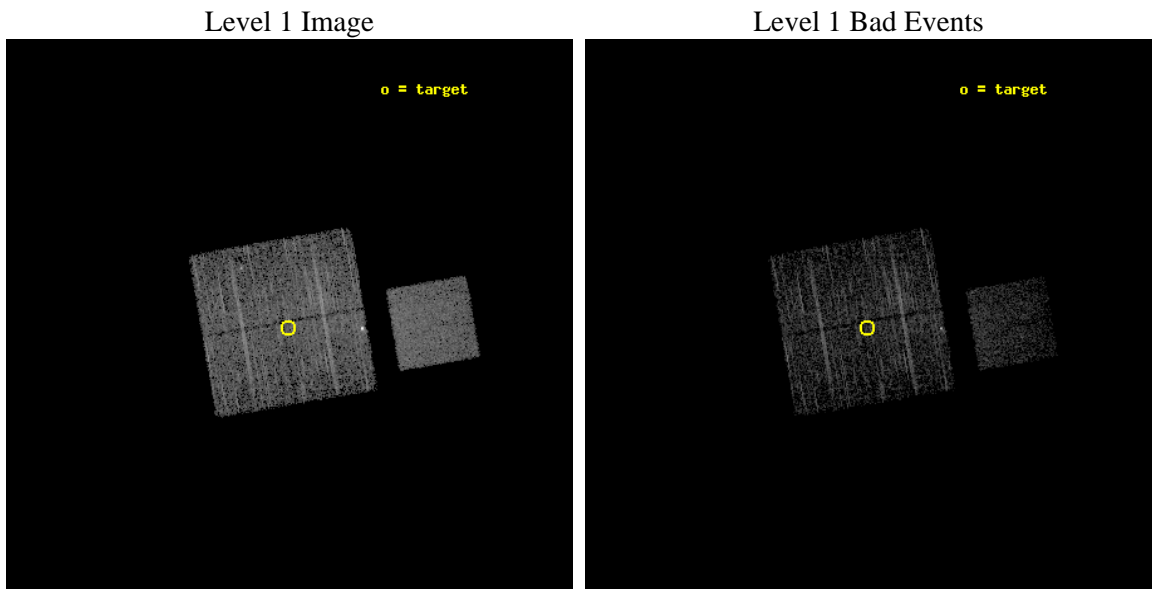
seq_num	400742	Sequence number
obs_id	8691	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO5	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.514708	Observer's specified target RA [deg]
dec_targ	-29.132549	Observer's specified target Dec [deg]
ra_nom	264.5134802088	Nominal RA [deg]
dec_nom	-29.124424059211	Nominal Dec [deg]
roll_nom	80.208101872099	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2182.4000167847	Sum of GTIs [s]
livetime	2153.8853539059	Livetime [s]
ontime0	2182.4000167847	Sum of GTIs [s]
ontime1	2182.4000167847	Sum of GTIs [s]
ontime2	2182.4000167847	Sum of GTIs [s]
ontime3	2182.4000167847	Sum of GTIs [s]
ontime7	2182.4000167847	Sum of GTIs [s]
l2events	19239	Number of level 2 events



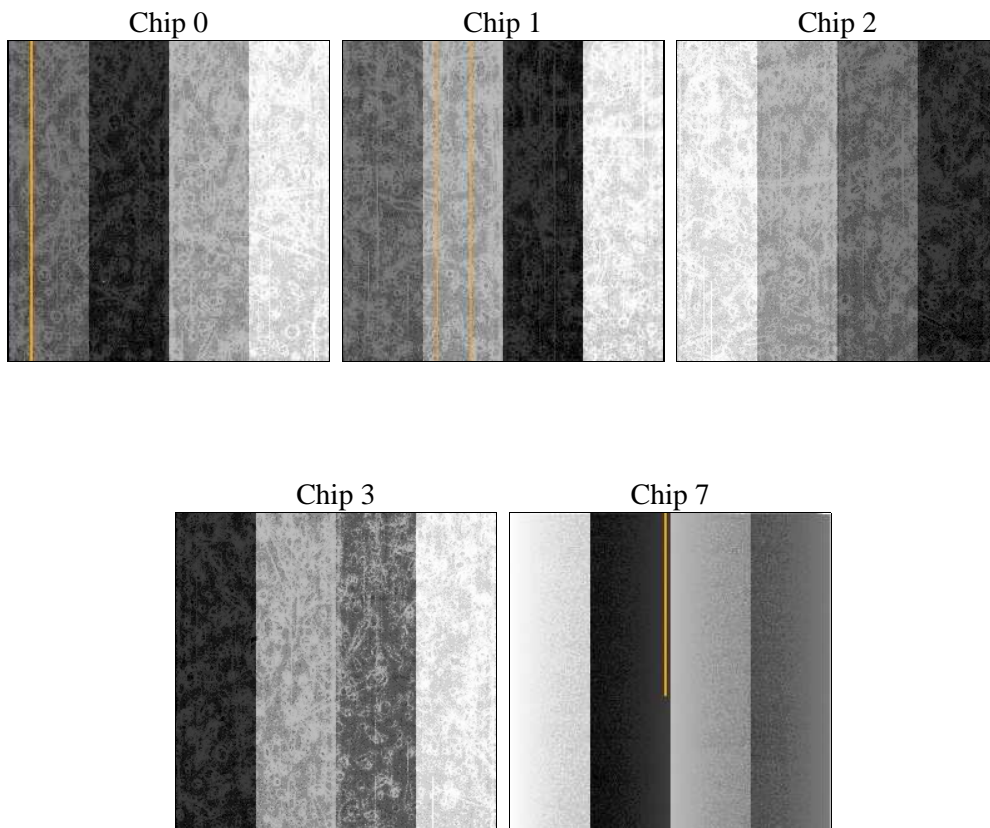
## 2 OBI

### 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	2182.4000167847	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2182.4000167847	Sum of GTIs [s]
date	2012-05-15T03:52:29	Date and time of file creation	ontime1	2182.4000167847	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2182.4000167847	Sum of GTIs [s]
			ontime3	2182.4000167847	Sum of GTIs [s]
			ontime7	2182.4000167847	Sum of GTIs [s]
			l1events	105823	Number of level 1 events

### 2.1.4 Events

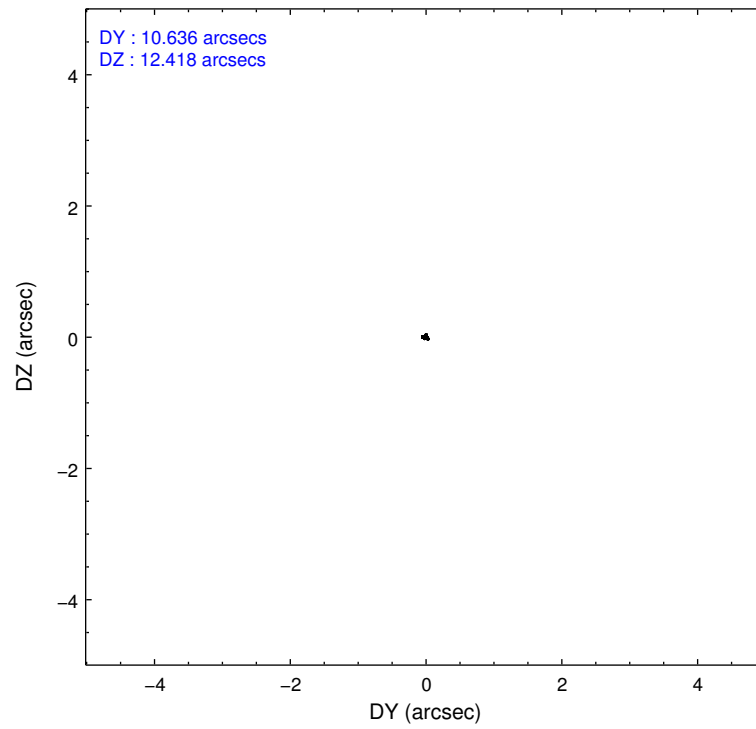
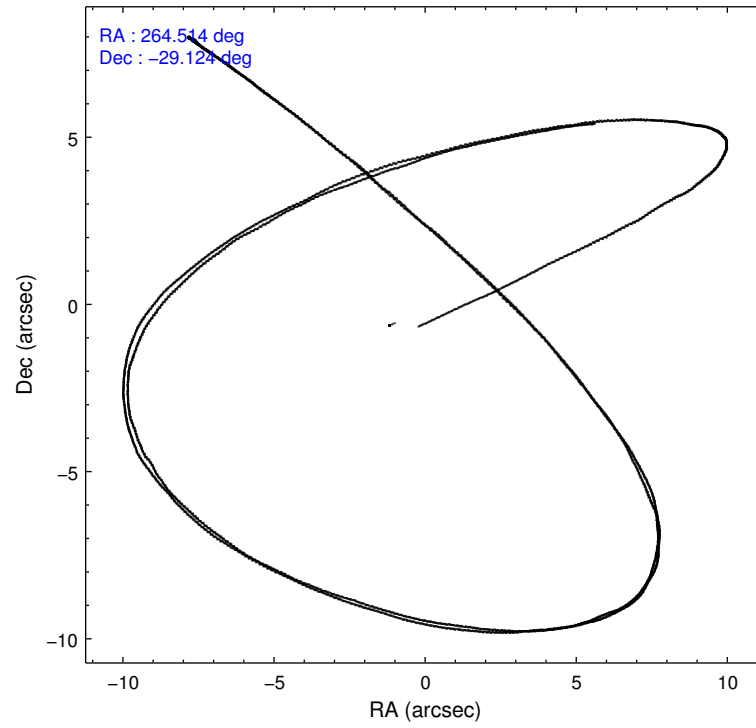
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	19245	18607	21567	23438	22966
rejected events	17012	16324	19536	18219	13791
rejected %	88%	87%	90%	77%	60%

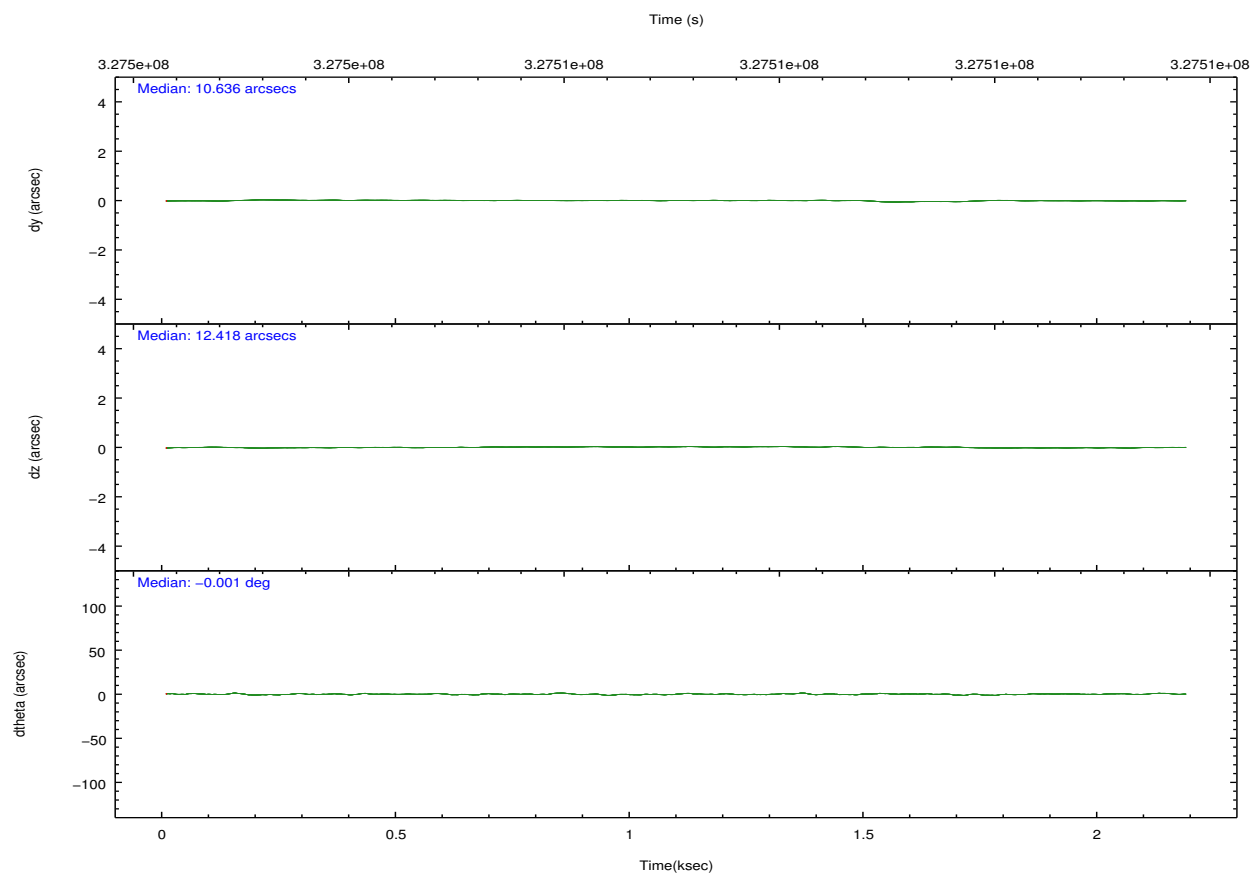
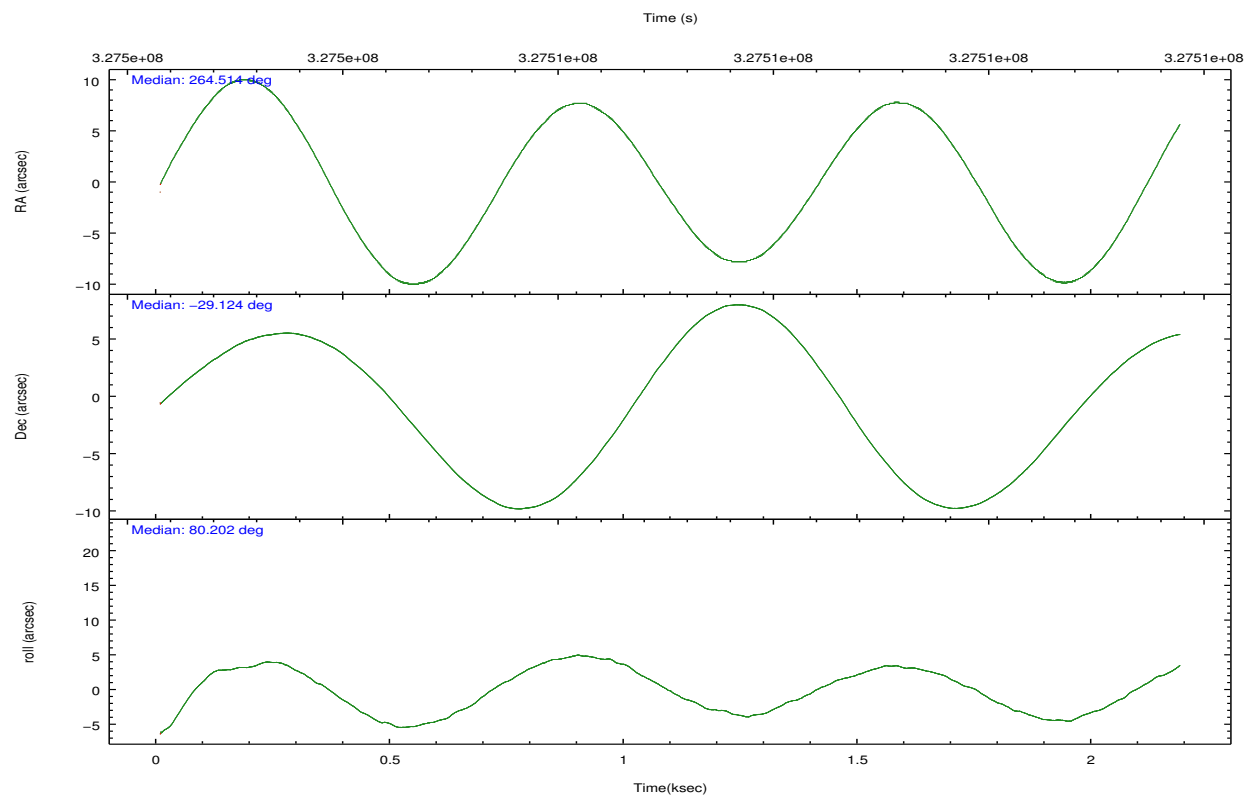
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	1124	1041	1115	3477	1057
	5%	5%	5%	14%	4%
grade 1 events	13	23	7	146	32
	0%	0%	0%	0%	0%
grade 2 events	556	563	473	959	2213
	2%	3%	2%	4%	9%
grade 3 events	271	270	228	388	945
	1%	1%	1%	1%	4%
grade 4 events	223	242	253	389	957
	1%	1%	1%	1%	4%
grade 5 events	702	783	697	901	2333
	3%	4%	3%	3%	10%
grade 6 events	379	495	364	643	5493
	1%	2%	1%	2%	23%
grade 7 events	15977	15190	18430	16535	9936
	83%	81%	85%	70%	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	264.524492	264.5134802087958	CCD I2 on	Y	Y
[deg] Pointing Dec	-29.150302	-29.12442405921076	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004771	80.20810187209936	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)	327504864.184000	327504488.07222	CCD S5 on	N	N
Observation start date	2008-05-18T13:33:19	2008-05-18T13:28:08	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327506864.184000	327506997.78484	On-chip summing requested	N	N
Observation end date	2008-05-18T14:06:39	2008-05-18T14:09:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





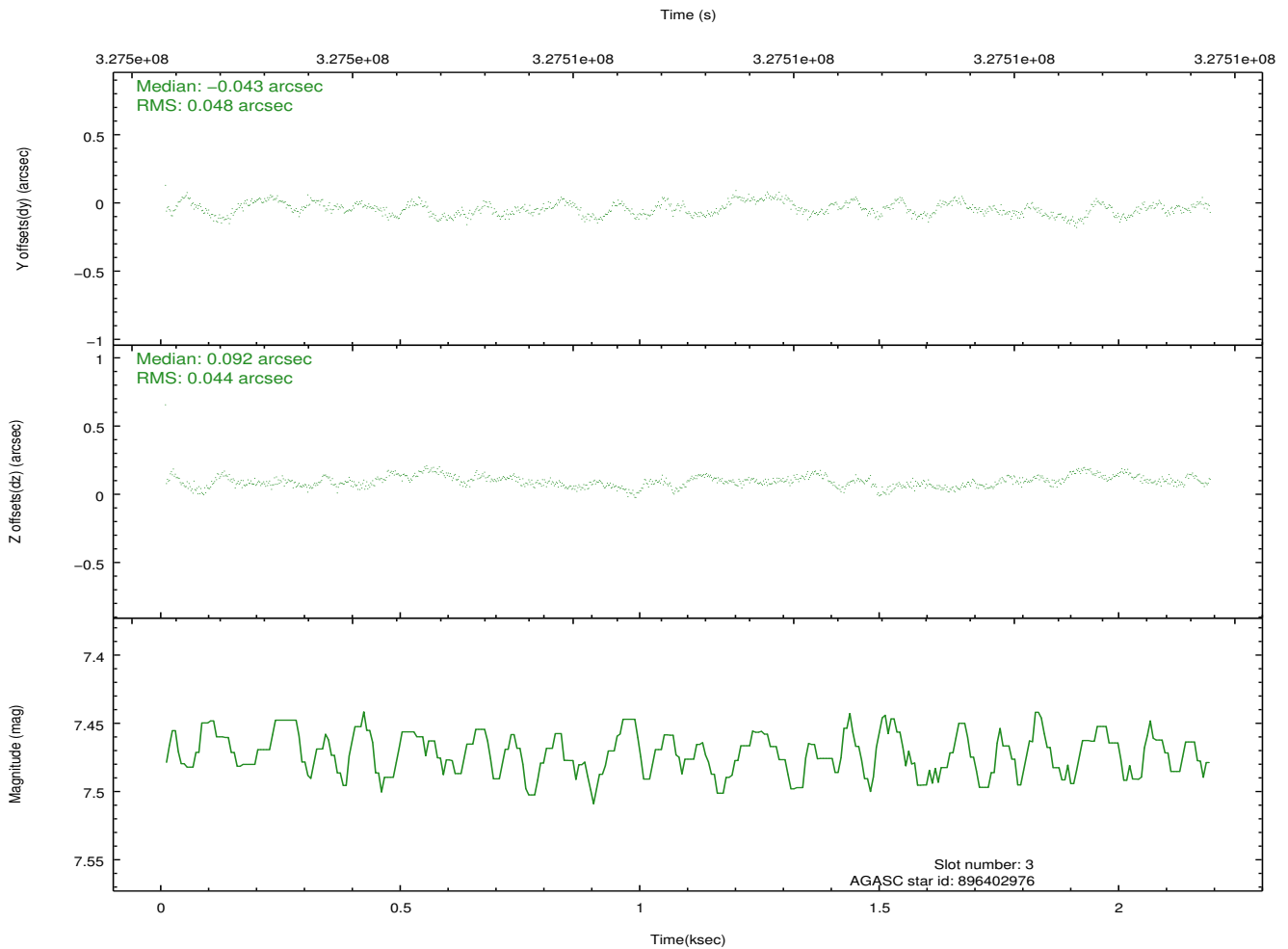
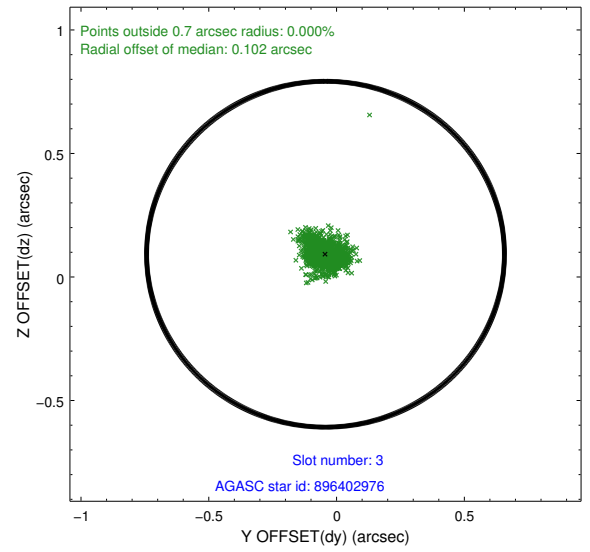
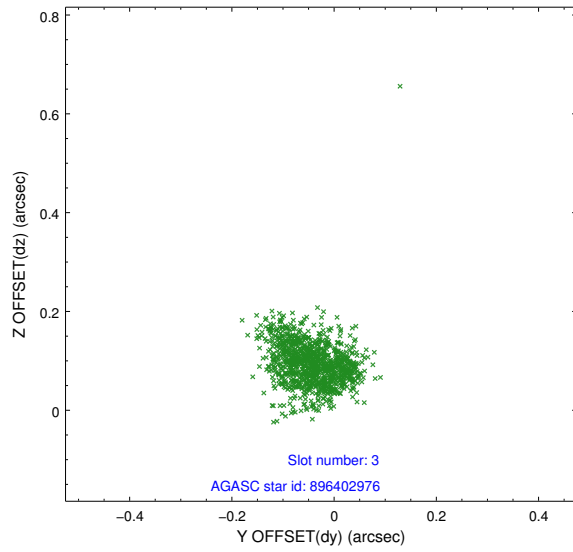
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	6.95	533	-0.059	-0.075	0.008	0.012	0.000000	0.000000	-765.30	-842.38
1	FID	ACIS-I-4	7.00	533	0.113	0.059	0.005	0.009	0.000000	0.000000	2147.60	1062.37
2	FID	ACIS-I-5	7.03	533	-0.156	0.084	0.008	0.012	0.000000	0.000000	-1815.36	1063.72
3	GUIDE	896402976	7.47	1065	-0.043	0.092	0.068	0.107	265.099474	-28.923203	1115.28	-1642.85
4	GUIDE	896403072	8.33	1065	-0.083	-0.249	0.073	0.128	263.956439	-28.943077	420.44	1889.47
5	GUIDE	896404376	6.68	1065	-0.049	0.017	0.096	0.159	264.835179	-29.530972	-1181.66	-1194.80
6	GUIDE	896406904	8.98	1065	0.103	-0.020	0.070	0.109	264.311862	-29.742267	-2215.88	283.23
7	GUIDE	896405480	8.23	1064	0.071	0.162	0.087	0.135	265.220460	-29.599691	-1223.43	-2427.07

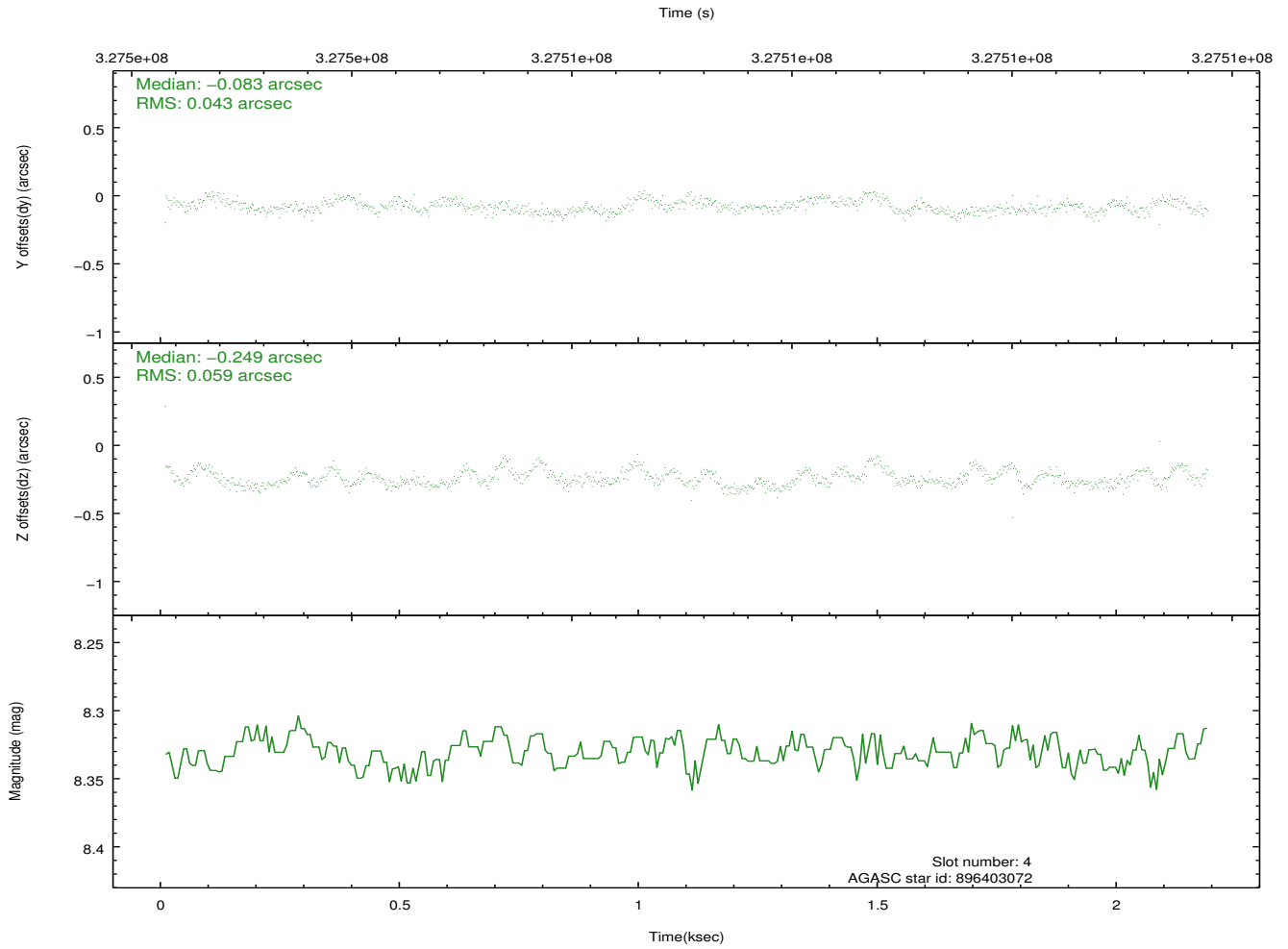
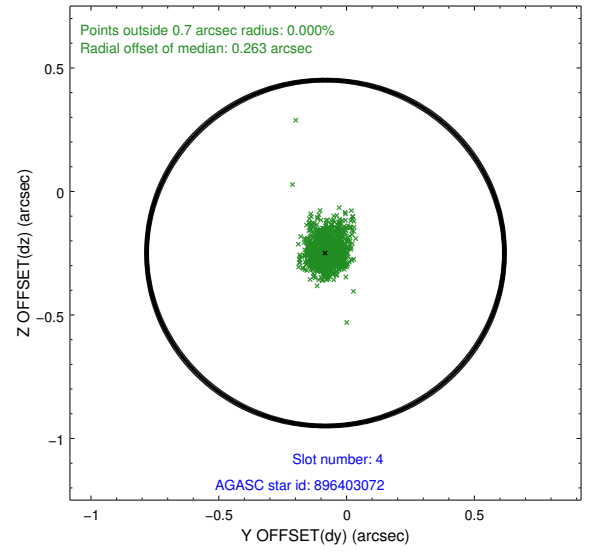
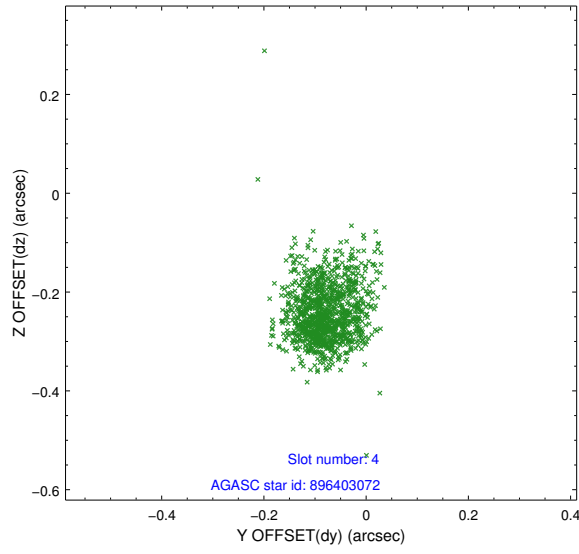


## 2.4 Star Slots

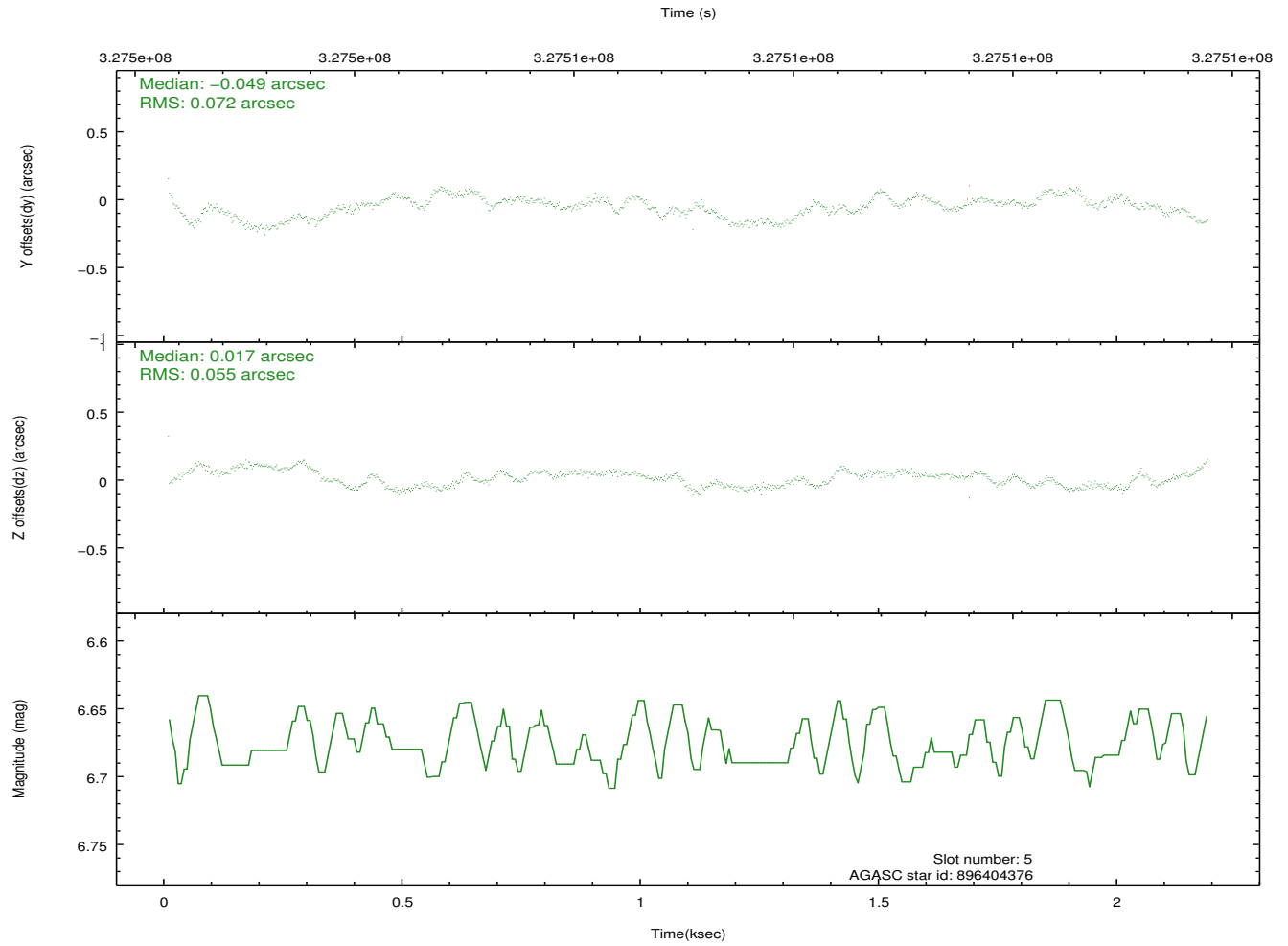
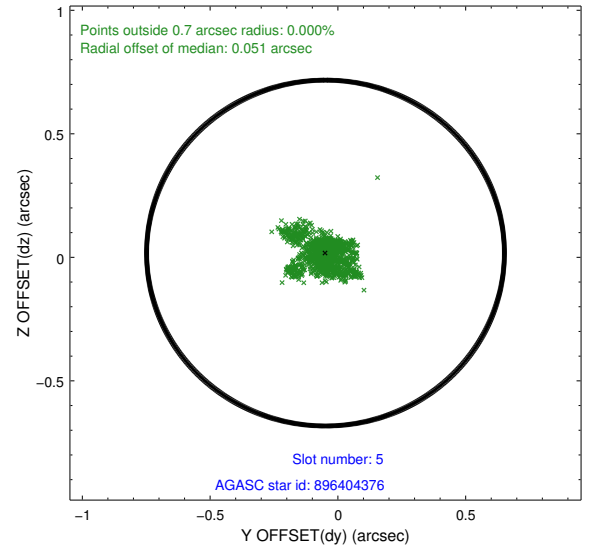
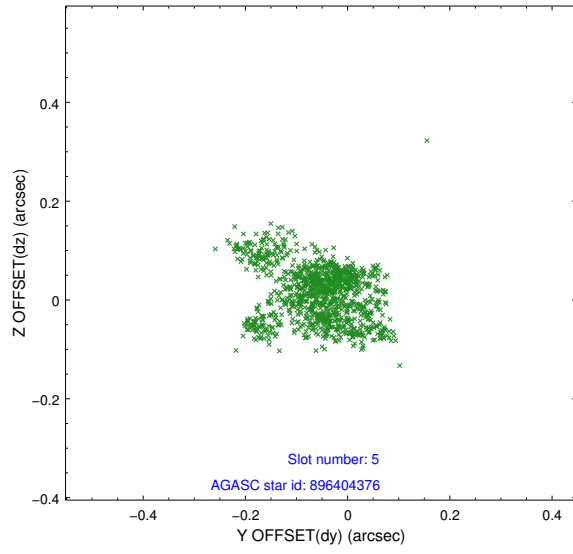
### 2.4.1 Slot 3



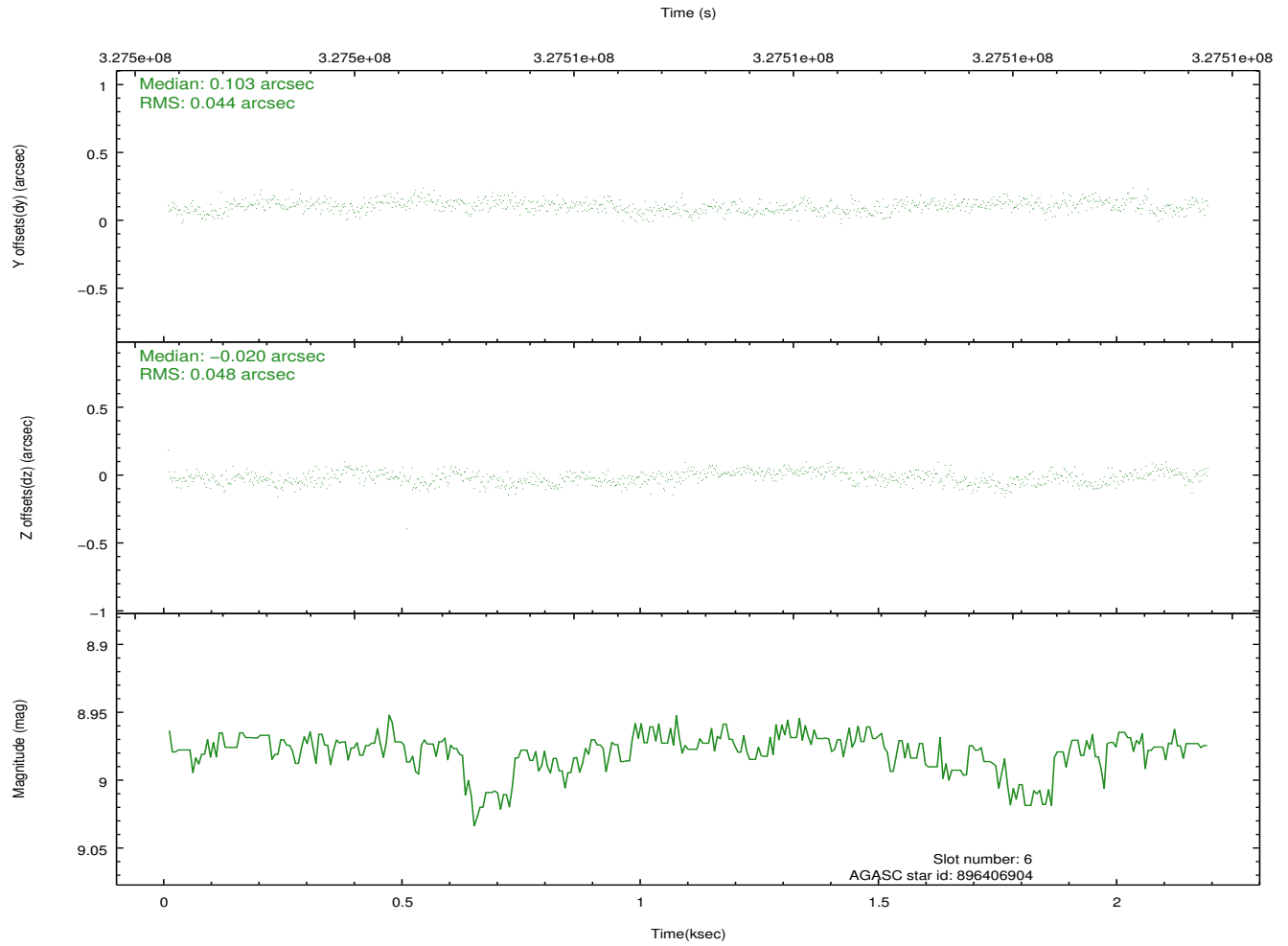
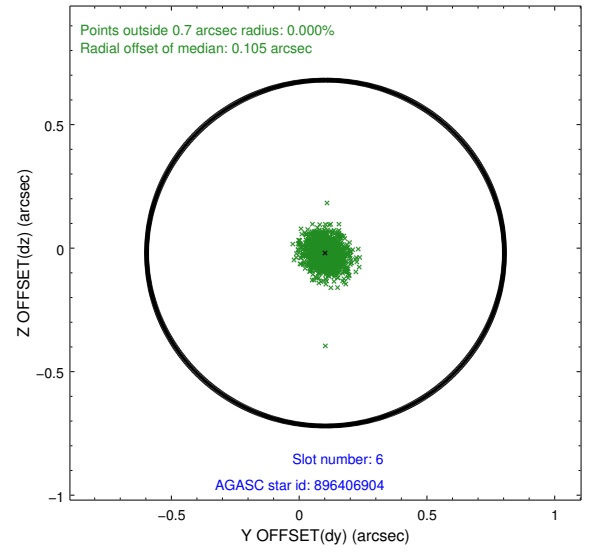
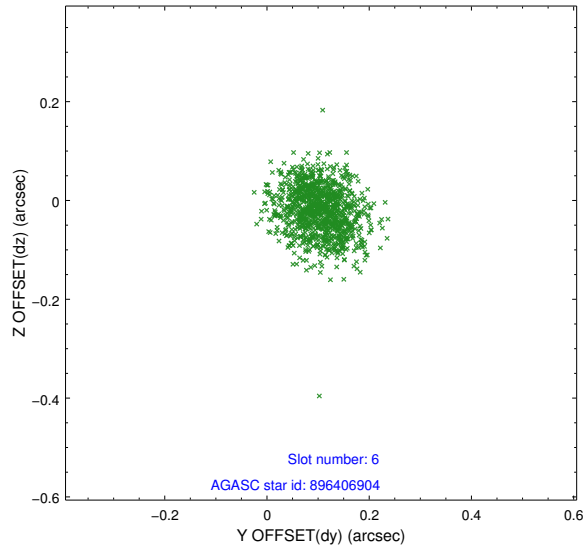
## 2.4.2 Slot 4



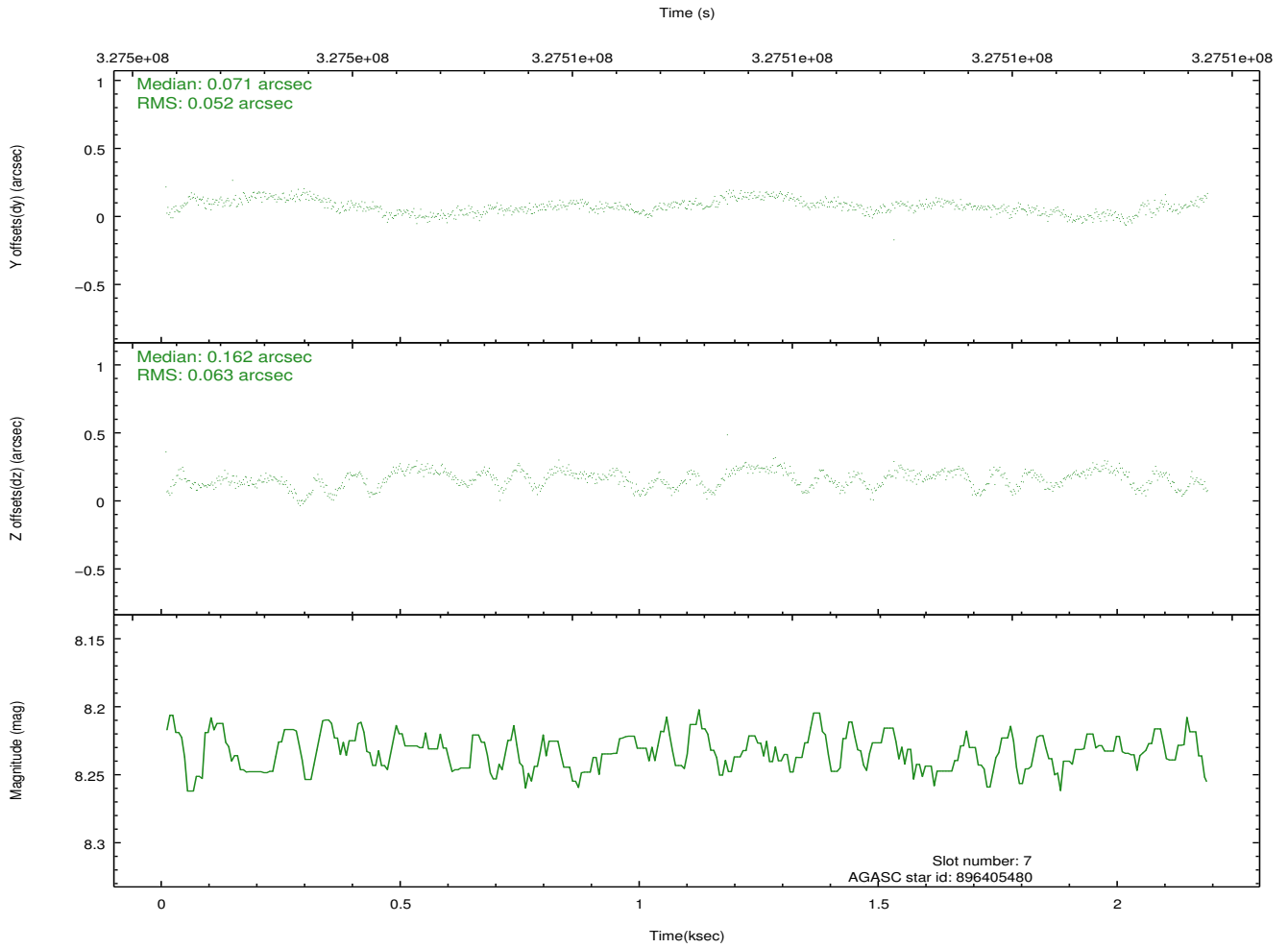
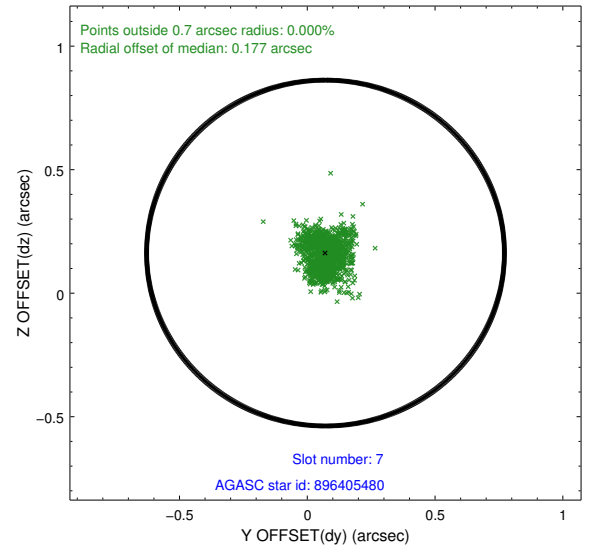
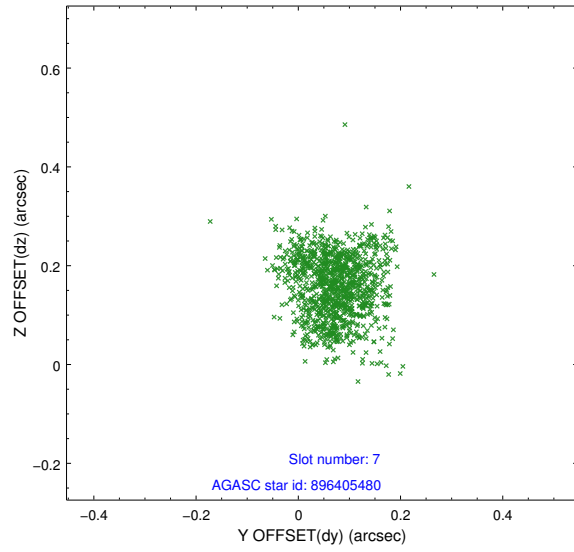
### 2.4.3 Slot 5



## 2.4.4 Slot 6

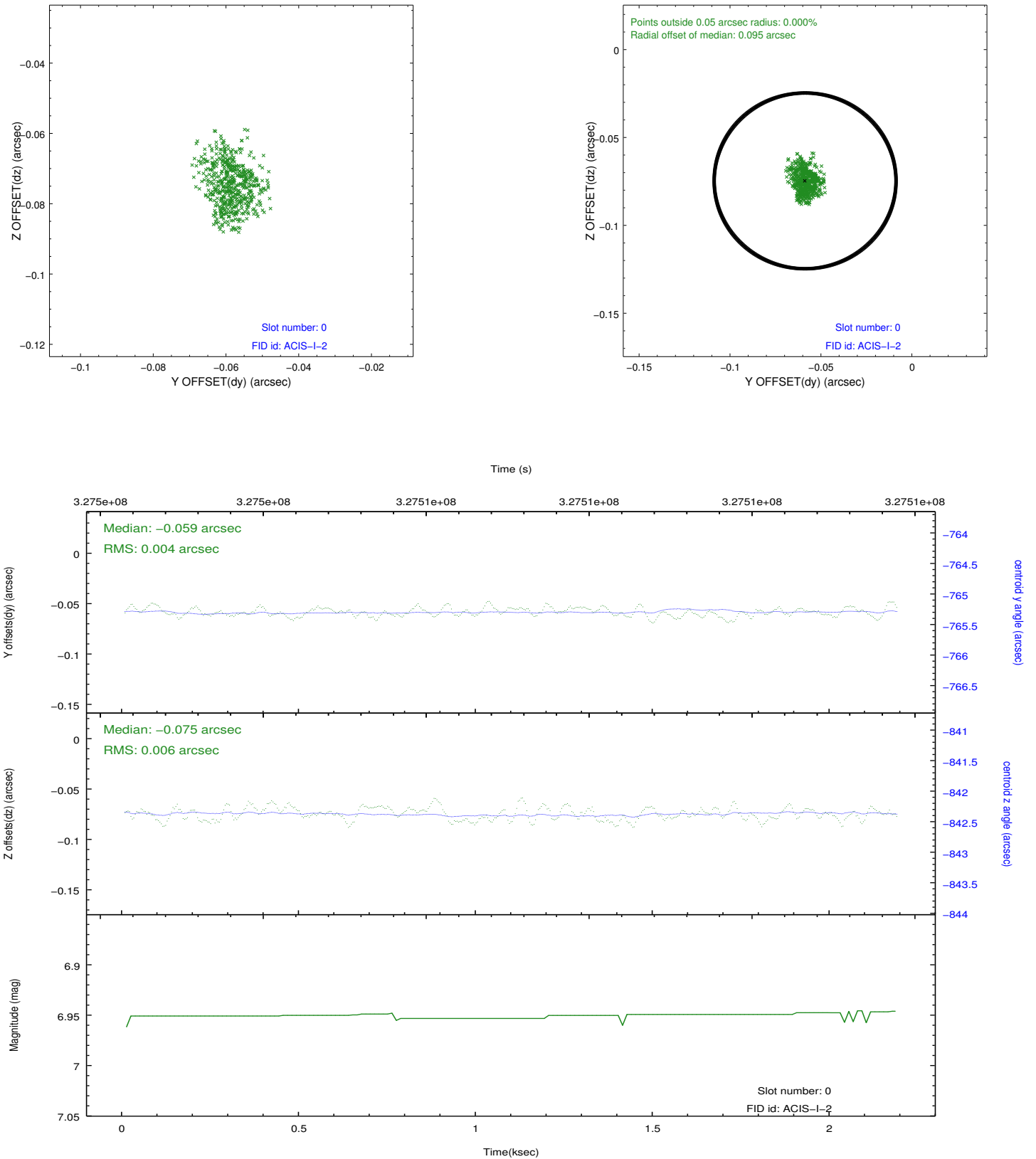


## 2.4.5 Slot 7

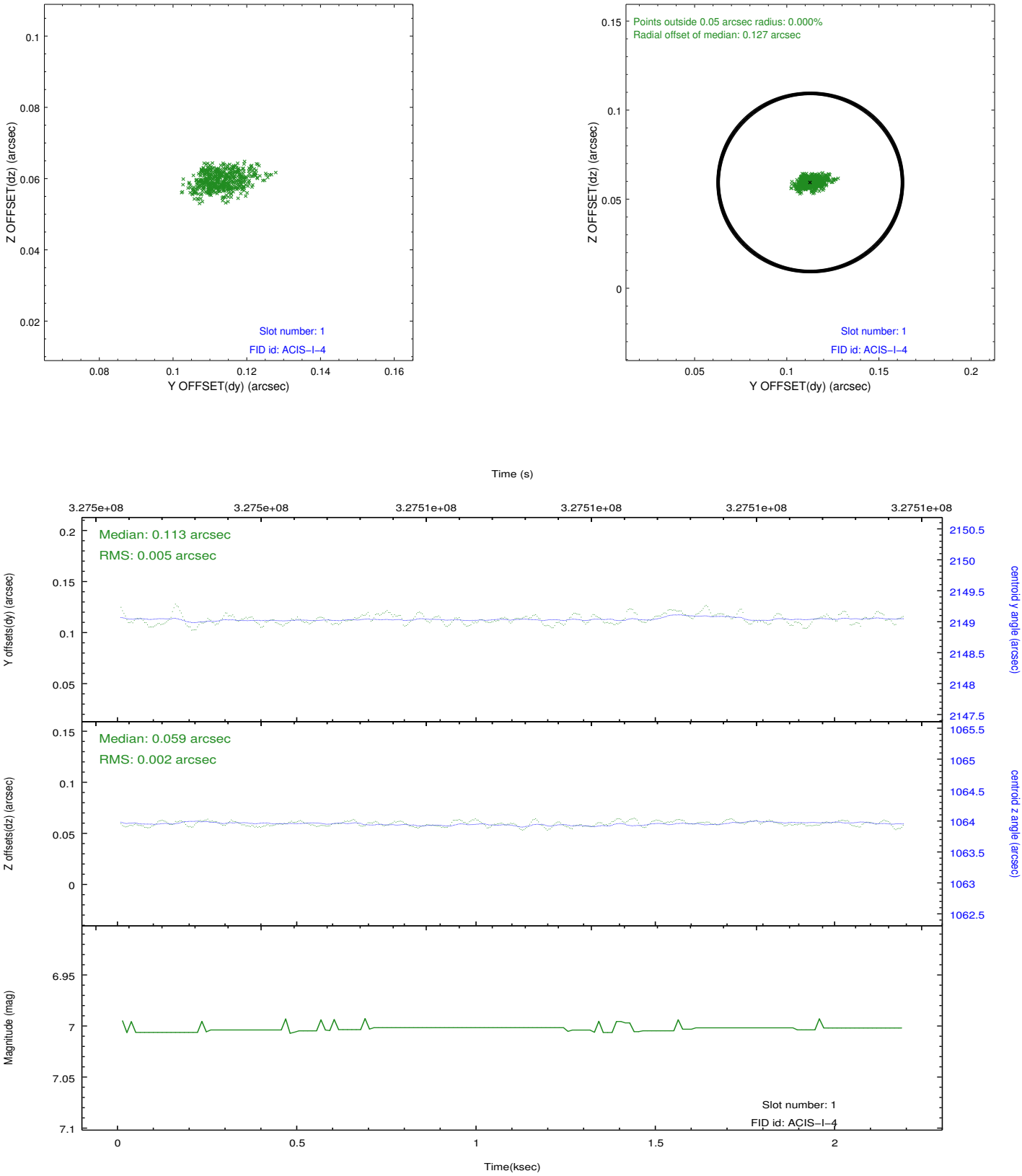


## 2.5 FID Slots

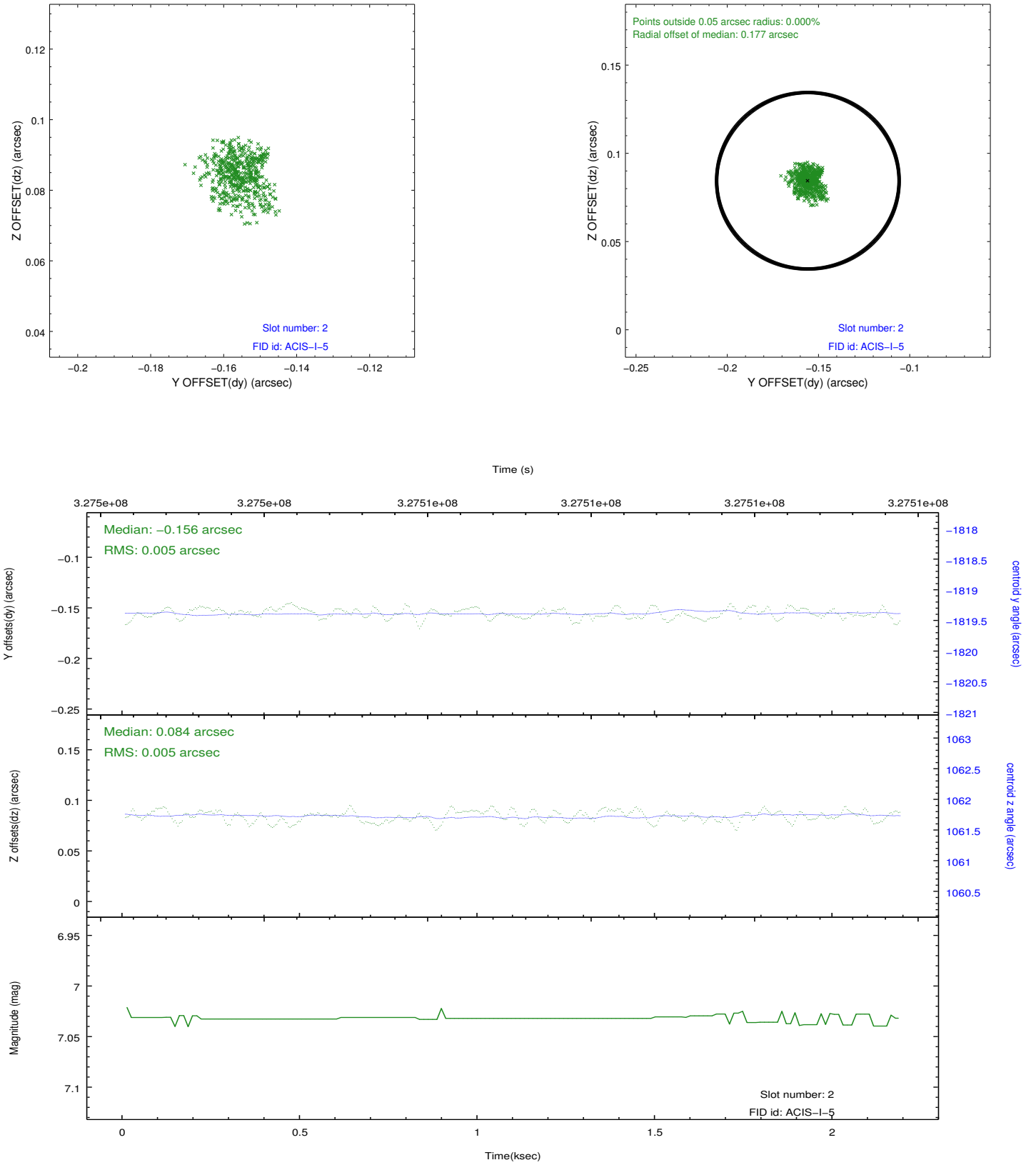
### 2.5.1 Slot 0



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	2.18240001

### A.2 Comments