

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8673 - L2 Version 2  
Chandra X-Ray Center

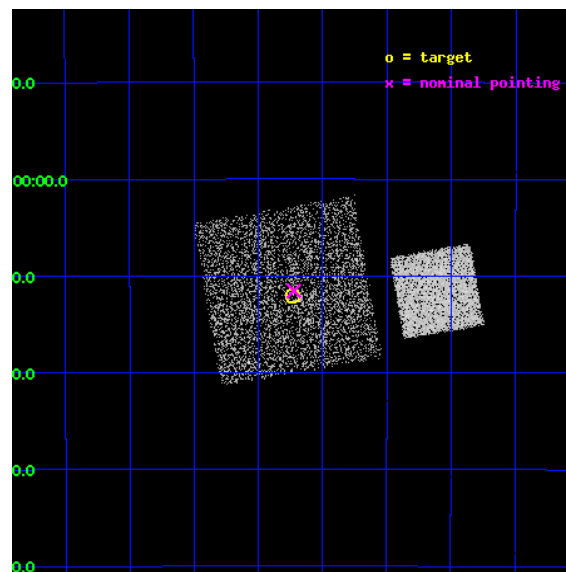
L2 Processing Date : May 15 2012

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# 1 Front

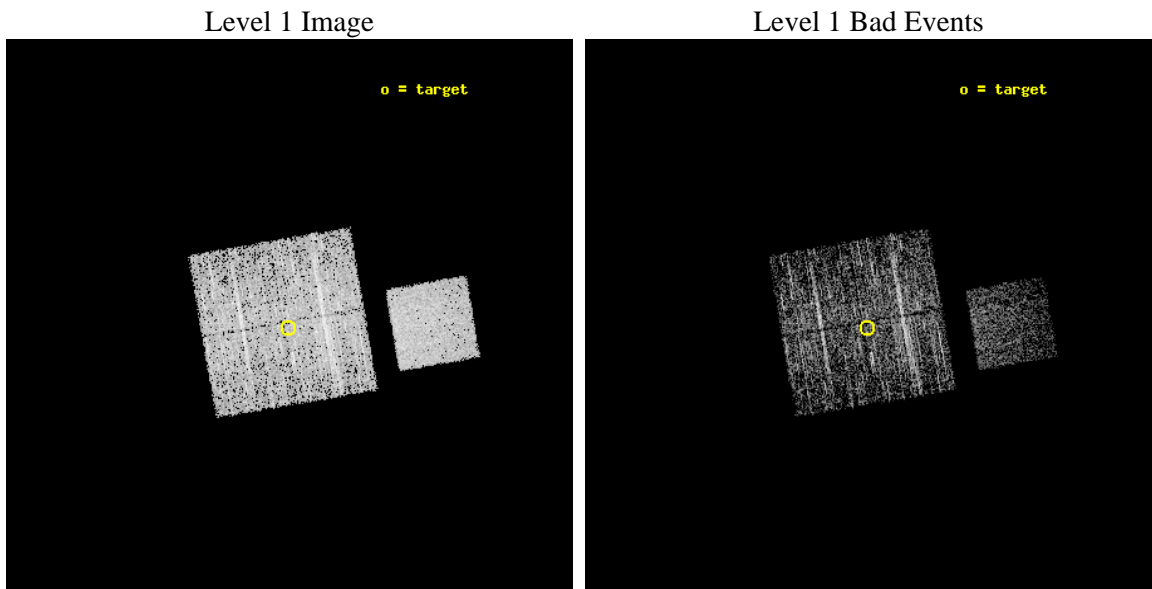
seq_num	400724	Sequence number
obs_id	8673	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GBSGTO3	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.307026	Observer's specified target RA [deg]
dec_targ	-26.200512	Observer's specified target Dec [deg]
ra_nom	266.30583712007	Nominal RA [deg]
dec_nom	-26.192557334007	Nominal Dec [deg]
roll_nom	80.208166009668	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2179.3000167608	Sum of GTIs [s]
livetime	2150.8258576645	Livetime [s]
ontime0	2179.3000167608	Sum of GTIs [s]
ontime1	2179.3000167608	Sum of GTIs [s]
ontime2	2179.3000167608	Sum of GTIs [s]
ontime3	2179.3000167608	Sum of GTIs [s]
ontime7	2179.3000167608	Sum of GTIs [s]
l2events	15829	Number of level 2 events



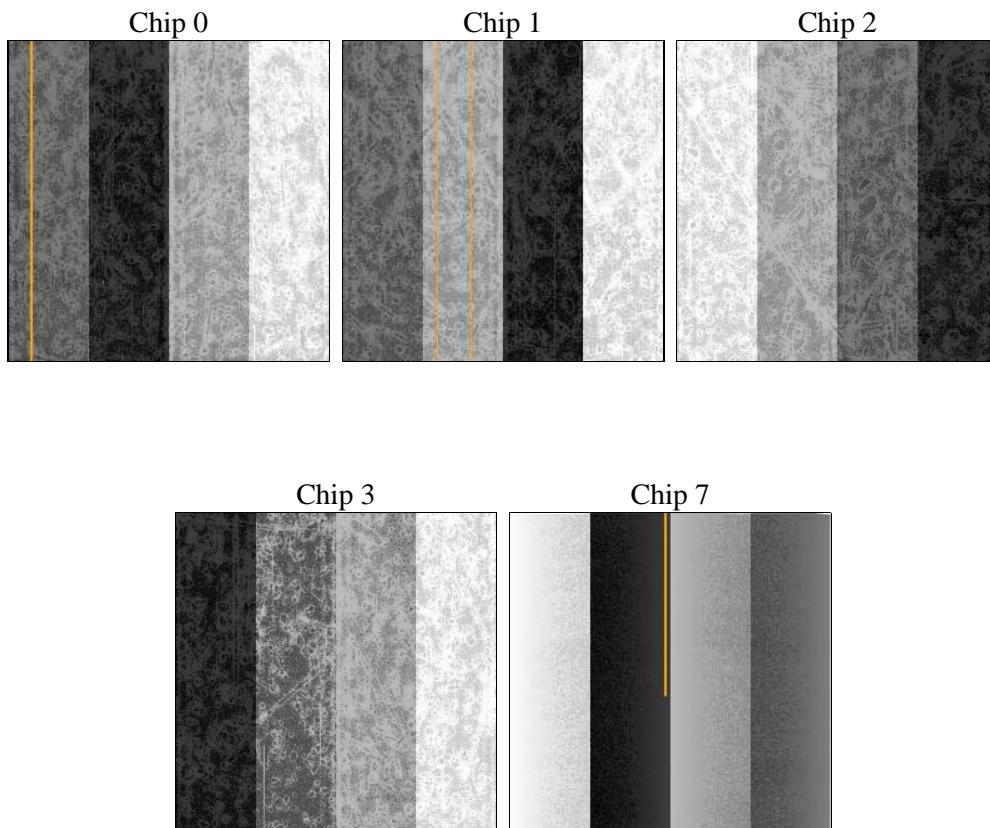
## 2 OBI

### 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	2179.3000167608	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2179.3000167608	Sum of GTIs [s]
date	2012-05-15T02:57:42	Date and time of file creation	ontime1	2179.3000167608	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2179.3000167608	Sum of GTIs [s]
			ontime3	2179.3000167608	Sum of GTIs [s]
			ontime7	2179.3000167608	Sum of GTIs [s]
			l1events	95392	Number of level 1 events

### 2.1.4 Events

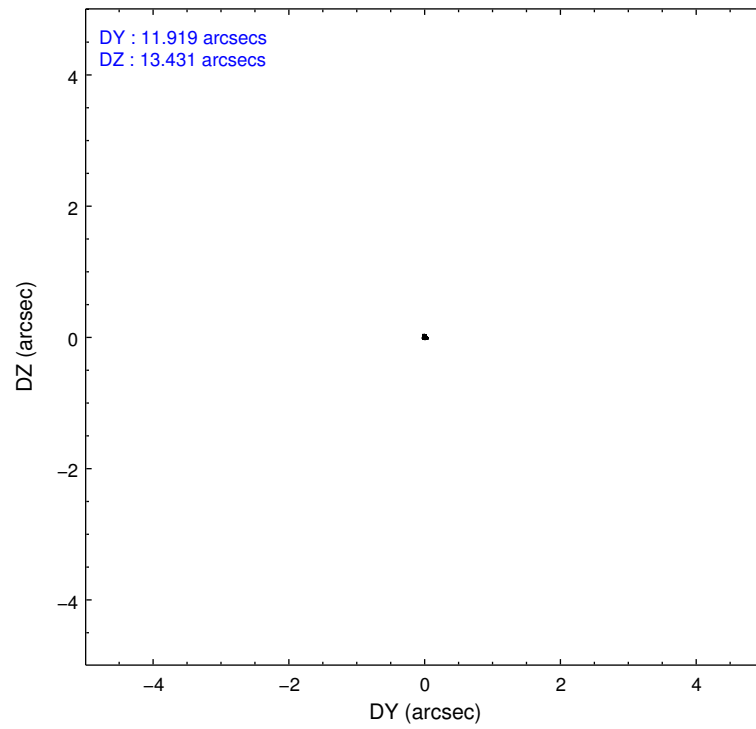
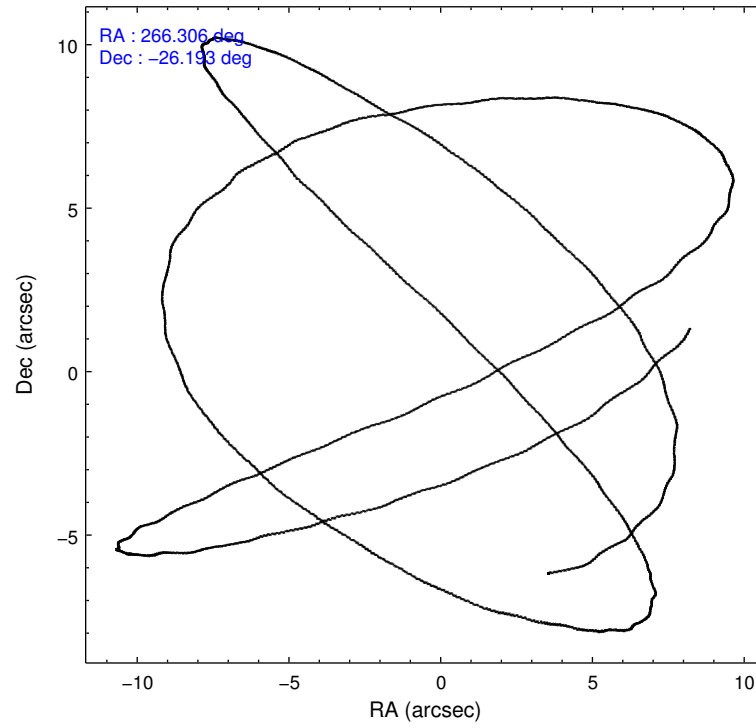
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	17517	16733	19491	20065	21586
rejected events	15542	14529	17547	18066	12279
rejected %	88%	86%	90%	90%	56%

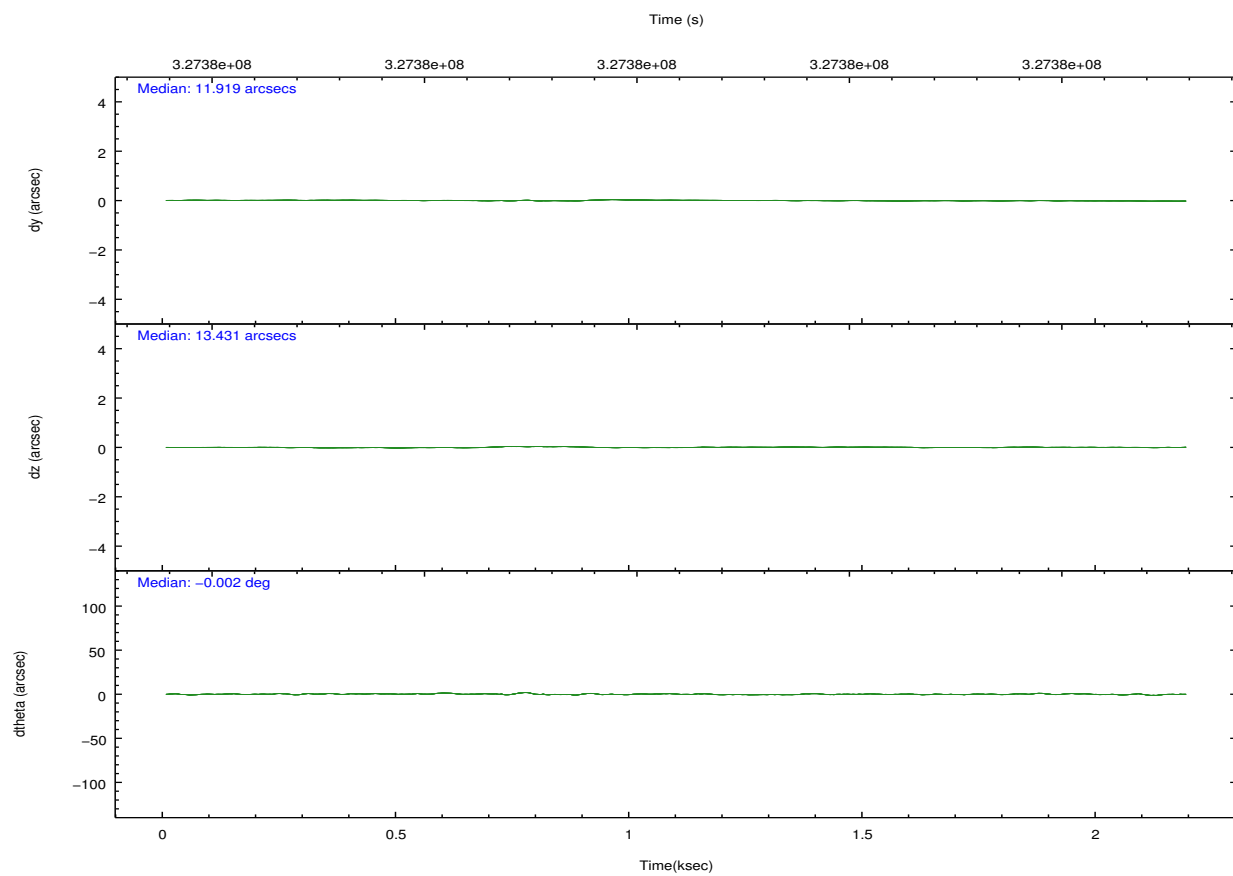
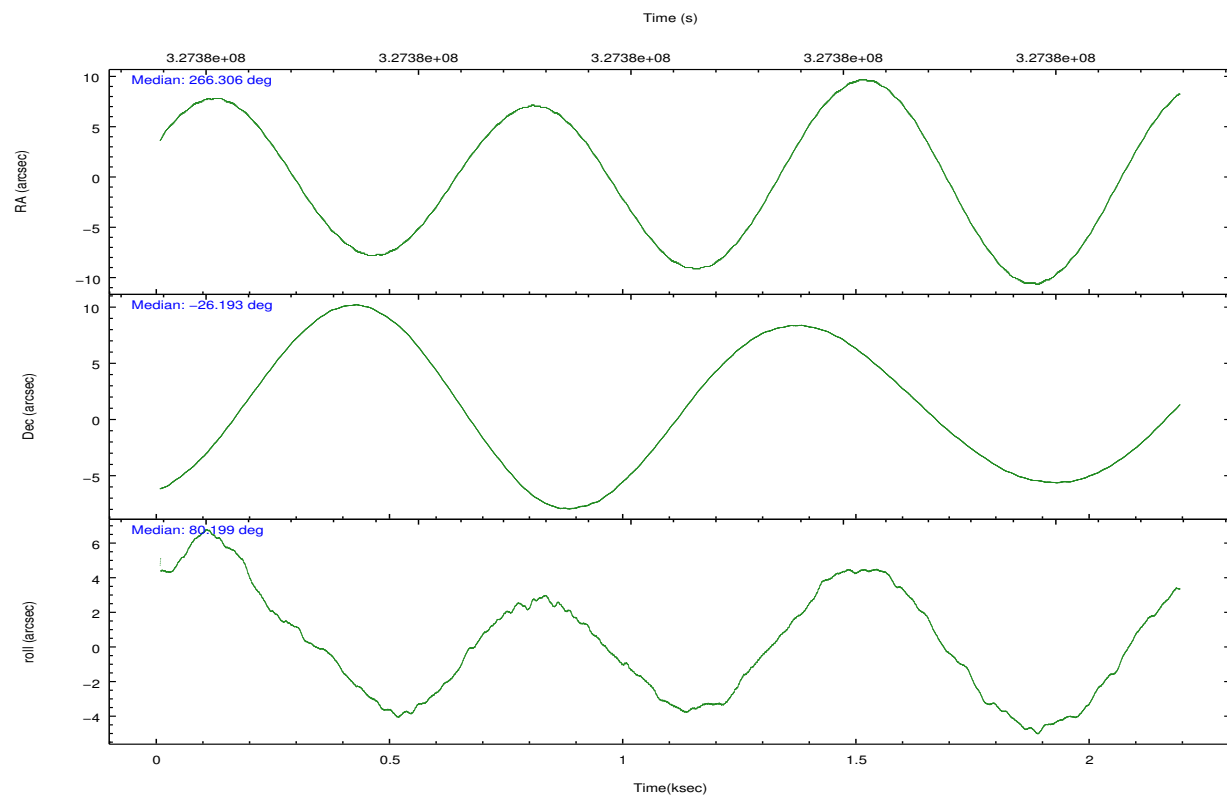
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	894	1011	841	898	950
	5%	6%	4%	4%	4%
grade 1 events	6	7	20	11	22
	0%	0%	0%	0%	0%
grade 2 events	492	468	504	491	2043
	2%	2%	2%	2%	9%
grade 3 events	202	227	206	212	953
	1%	1%	1%	1%	4%
grade 4 events	195	251	212	212	947
	1%	1%	1%	1%	4%
grade 5 events	674	735	577	781	2324
	3%	4%	2%	3%	10%
grade 6 events	368	413	347	354	5222
	2%	2%	1%	1%	24%
grade 7 events	14686	13621	16784	17106	9125
	83%	81%	86%	85%	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	266.316555	266.3058371200696	CCD I2 on	Y	Y
[deg] Pointing Dec	-26.218270	-26.1925573340069	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004209	80.20816600966758	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)	327379683.184000	327379307.37862	CCD S5 on	N	N
Observation start date	2008-05-17T02:46:58	2008-05-17T02:41:47	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327381683.184000	327381871.41624	On-chip summing requested	N	N
Observation end date	2008-05-17T03:20:18	2008-05-17T03:24:31	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





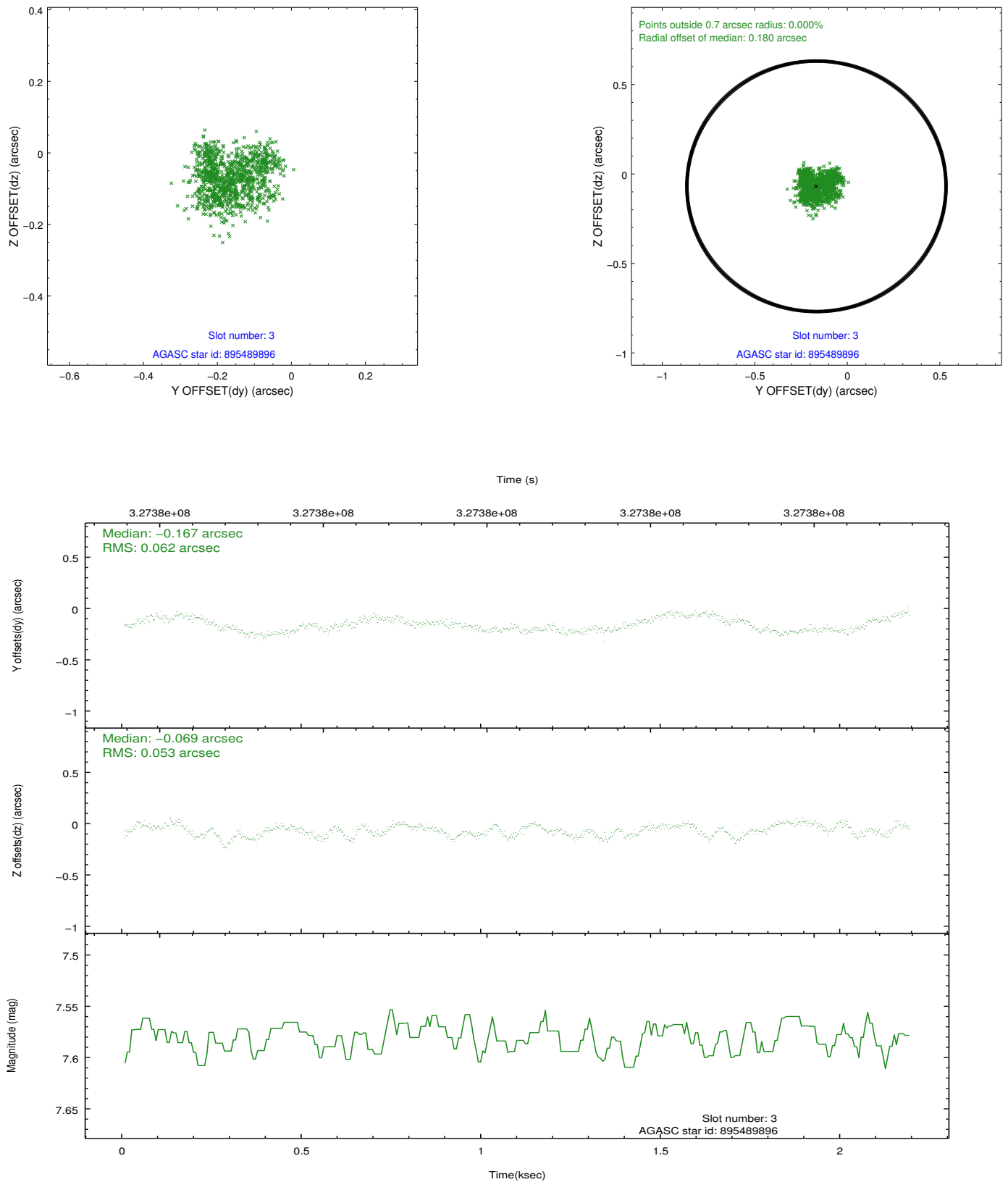
### Slot Statistics

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	534	0.011	0.038	0.007	0.012	0.000000	0.000000	927.64	-836.95
1	FID	ACIS-I-5	7.06	534	-0.159	0.038	0.007	0.012	0.000000	0.000000	-1818.99	1059.04
2	FID	ACIS-I-6	7.06	533	0.057	-0.005	0.007	0.010	0.000000	0.000000	389.98	1706.88
3	GUIDE	895489896	7.58	1067	-0.167	-0.069	0.090	0.133	266.605795	-26.200300	225.28	-908.86
4	GUIDE	896009584	9.29	1067	0.312	0.126	0.214	0.322	266.891313	-26.347528	-139.25	-1908.03
5	GUIDE	896015112	9.19	1066	0.023	-0.061	0.088	0.141	266.684847	-26.286161	-35.49	-1215.06
6	GUIDE	896015880	8.50	1068	-0.130	-0.241	0.104	0.159	265.986633	-26.306686	-499.46	991.84
7	GUIDE	896013056	8.52	1066	-0.022	0.249	0.080	0.123	266.762141	-26.954413	-2363.95	-1867.65

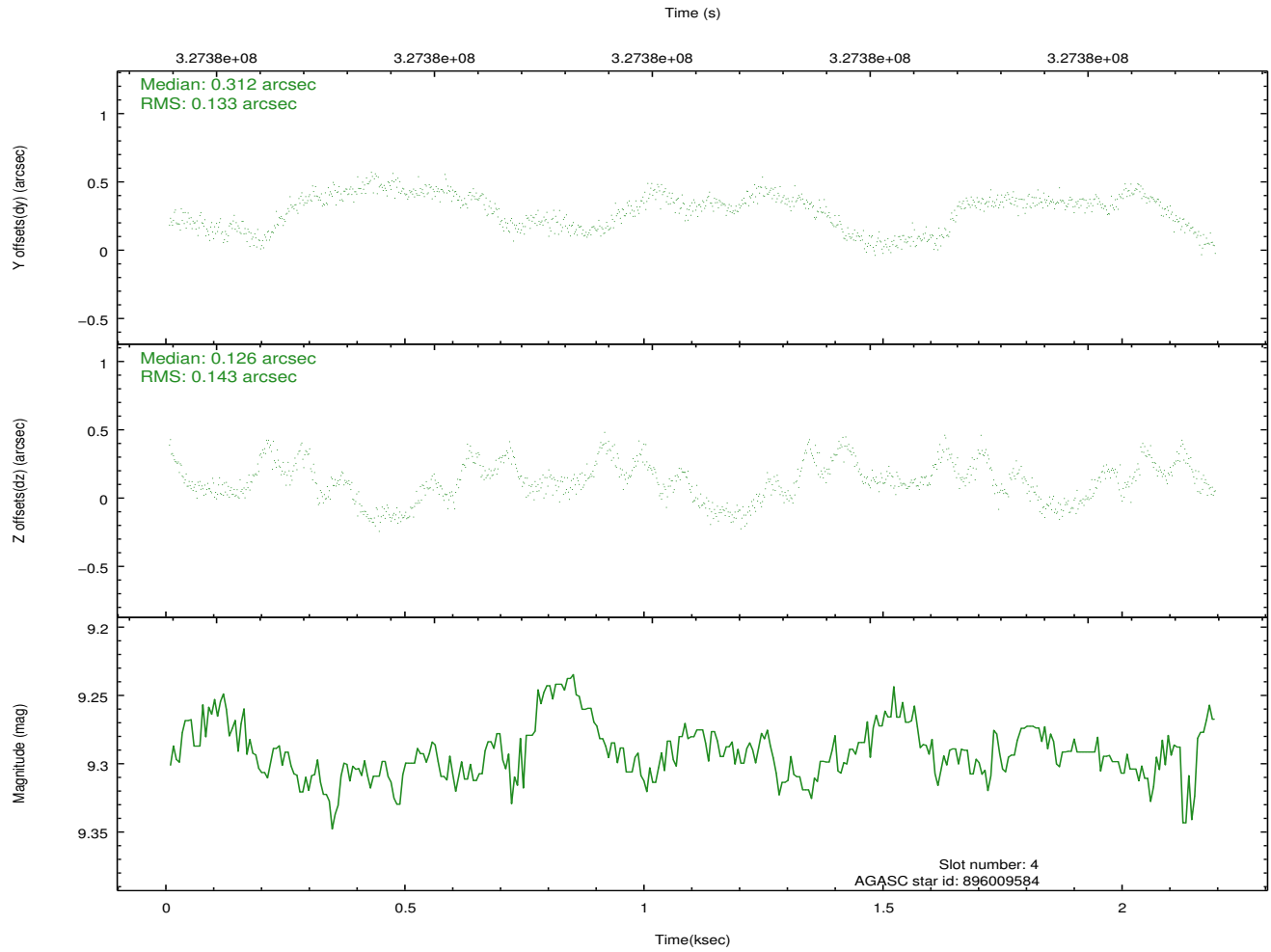
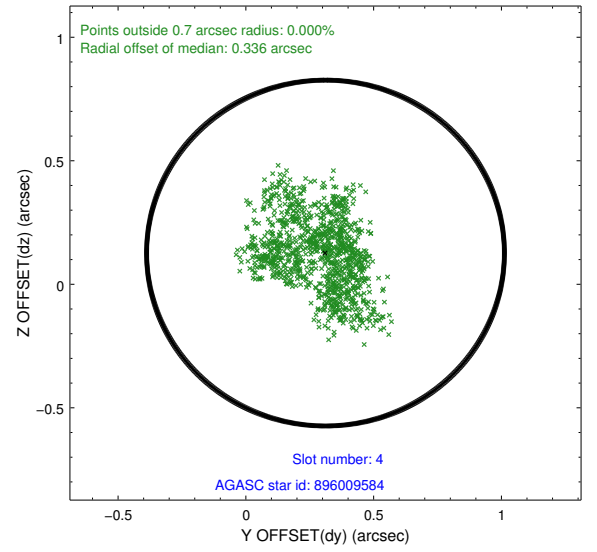
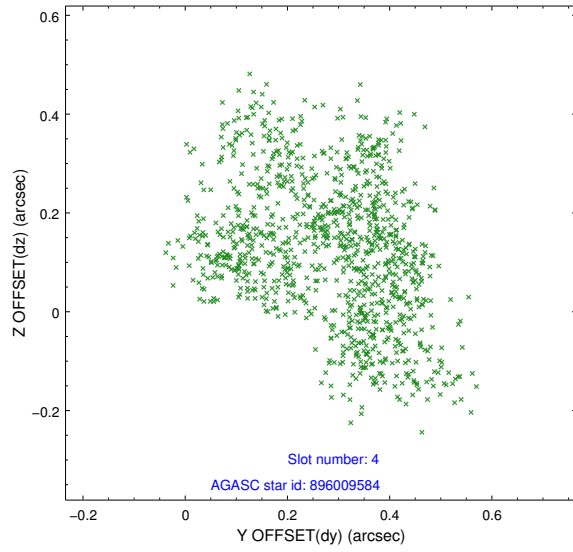


## 2.4 Star Slots

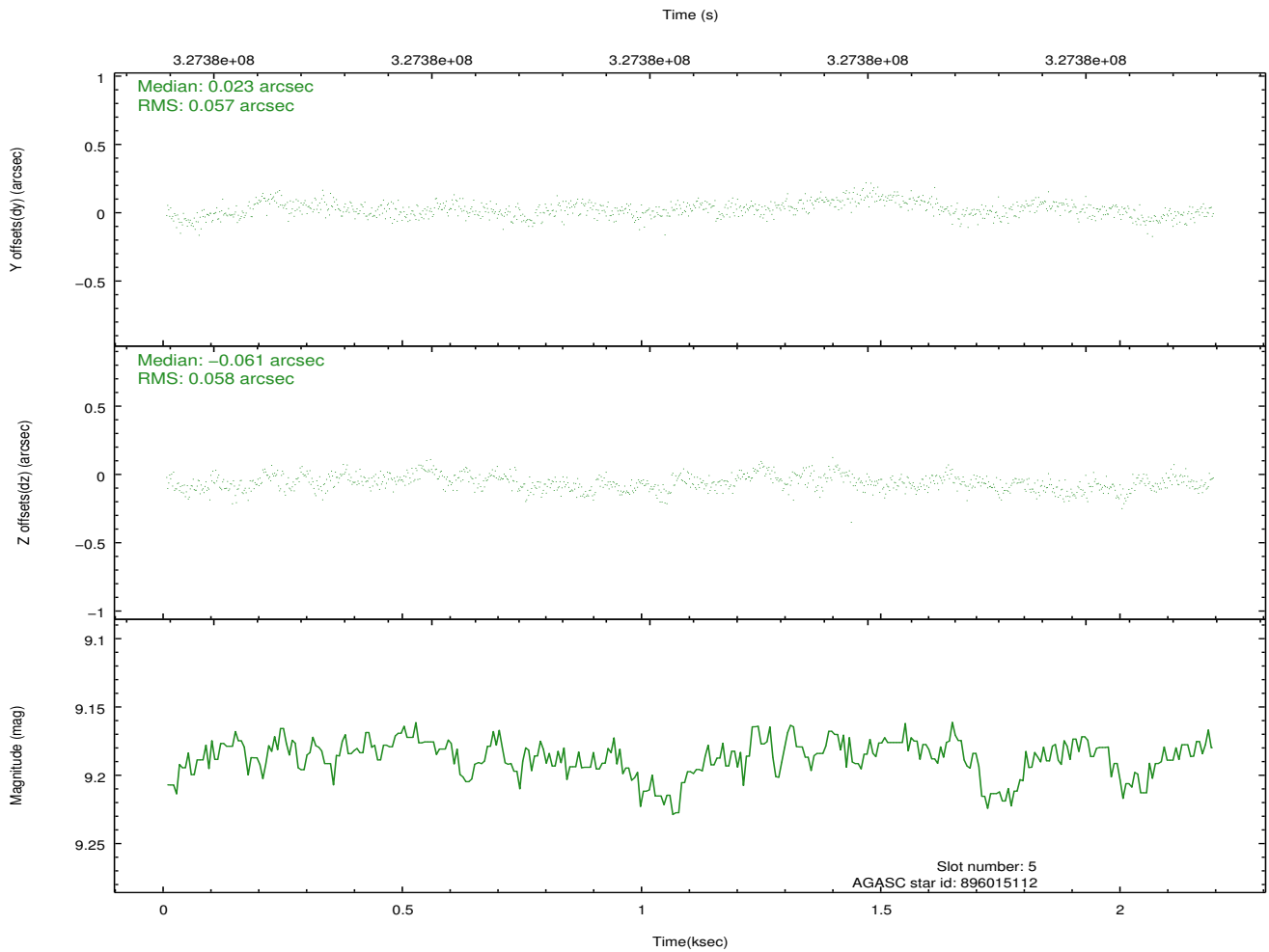
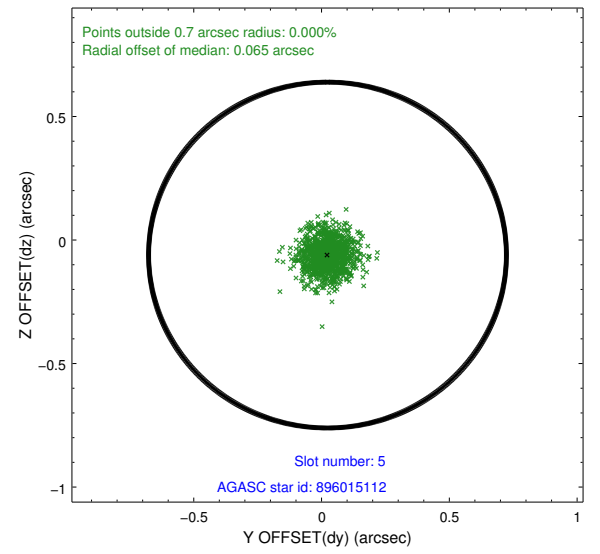
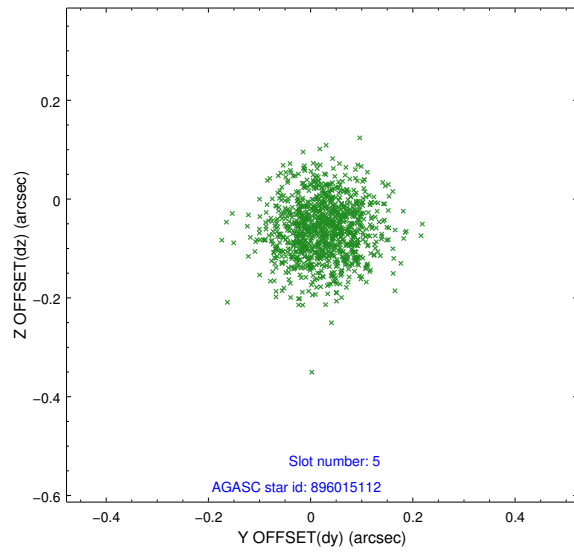
### 2.4.1 Slot 3



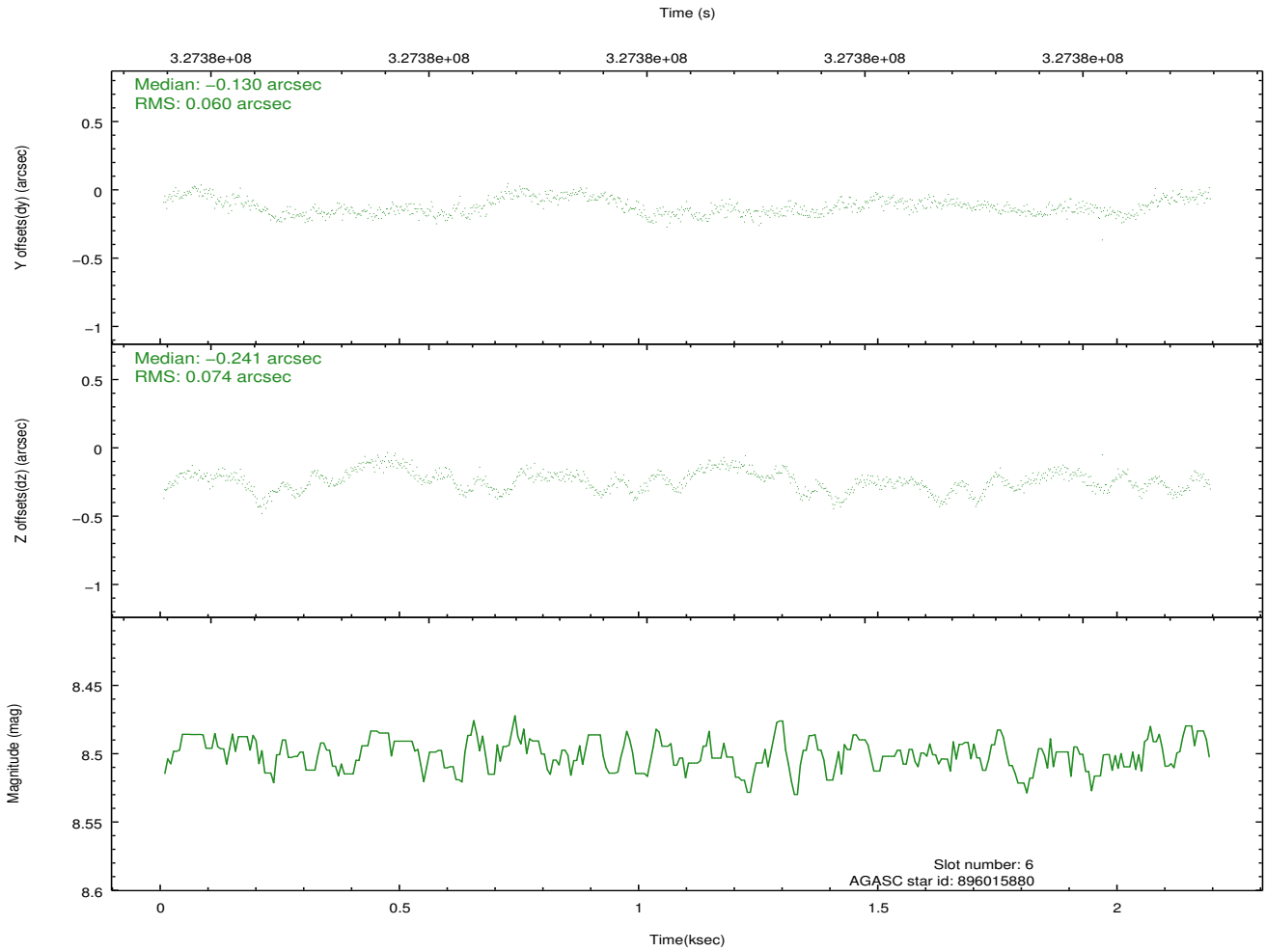
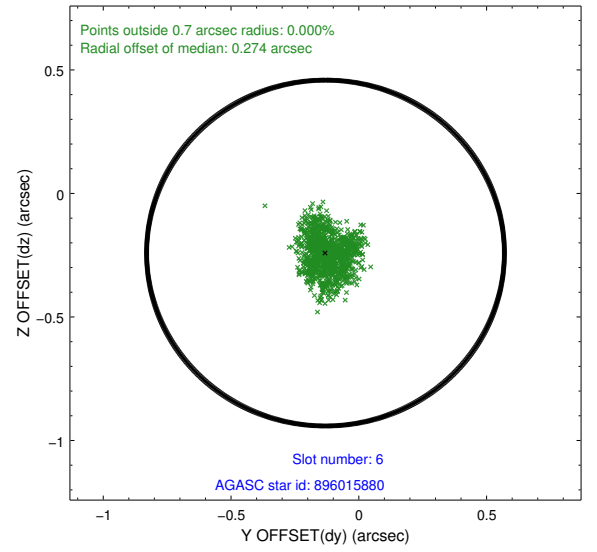
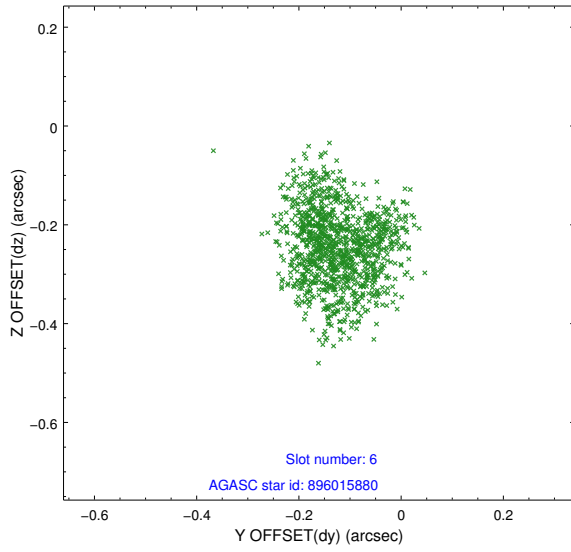
## 2.4.2 Slot 4



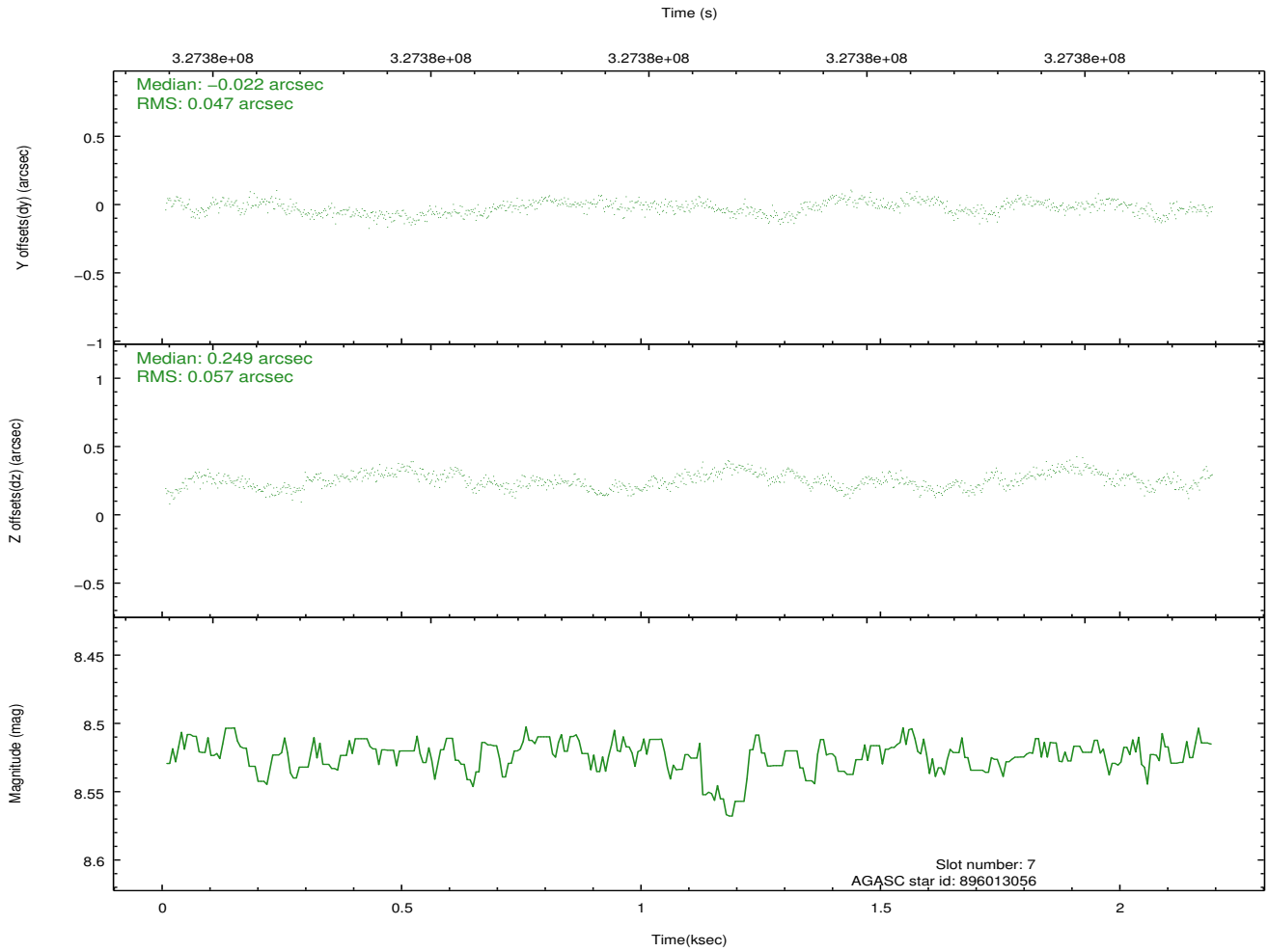
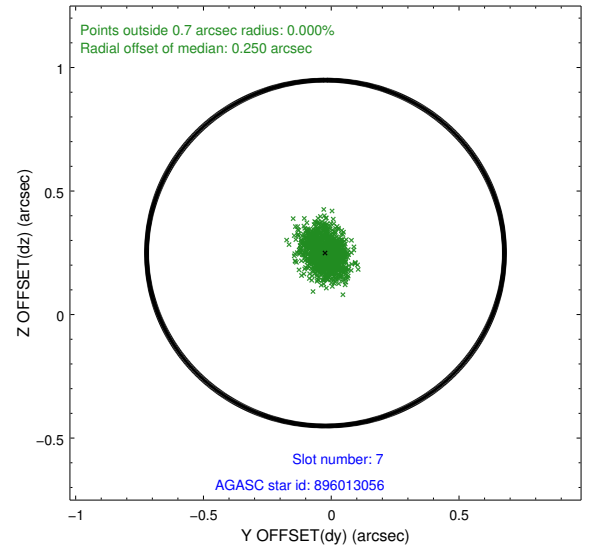
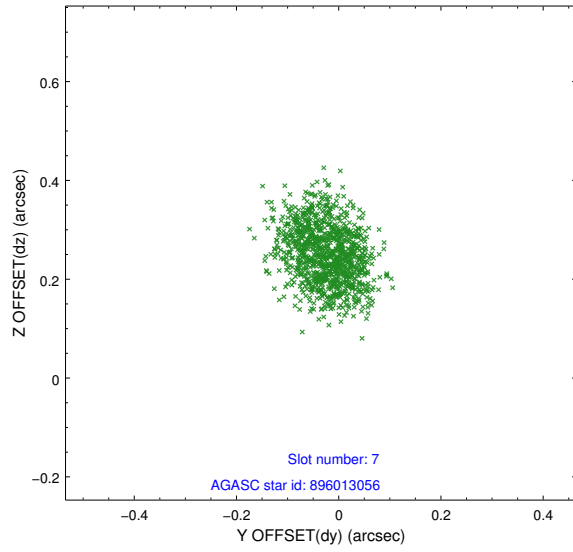
### 2.4.3 Slot 5



## 2.4.4 Slot 6

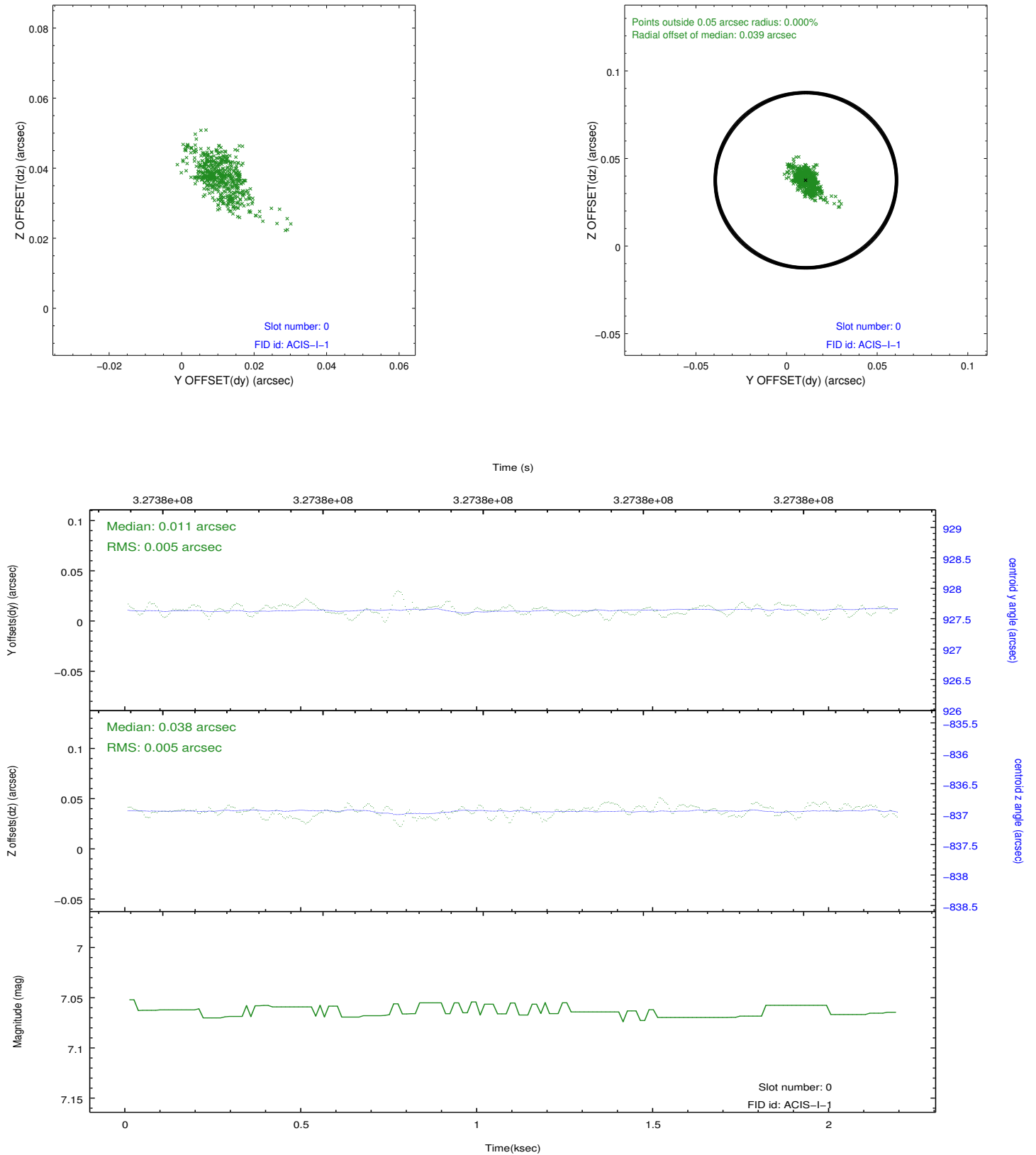


## 2.4.5 Slot 7

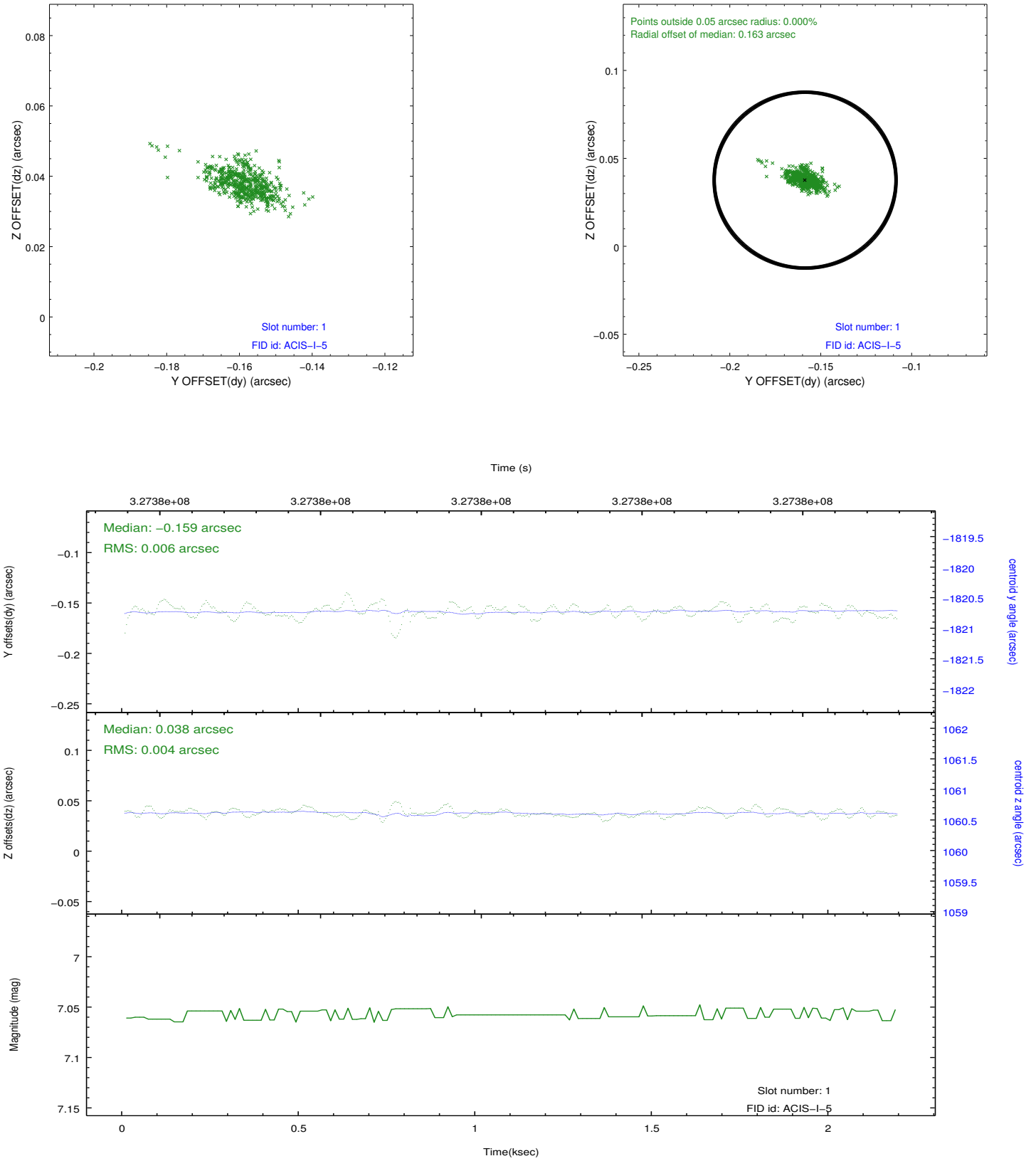


## 2.5 FID Slots

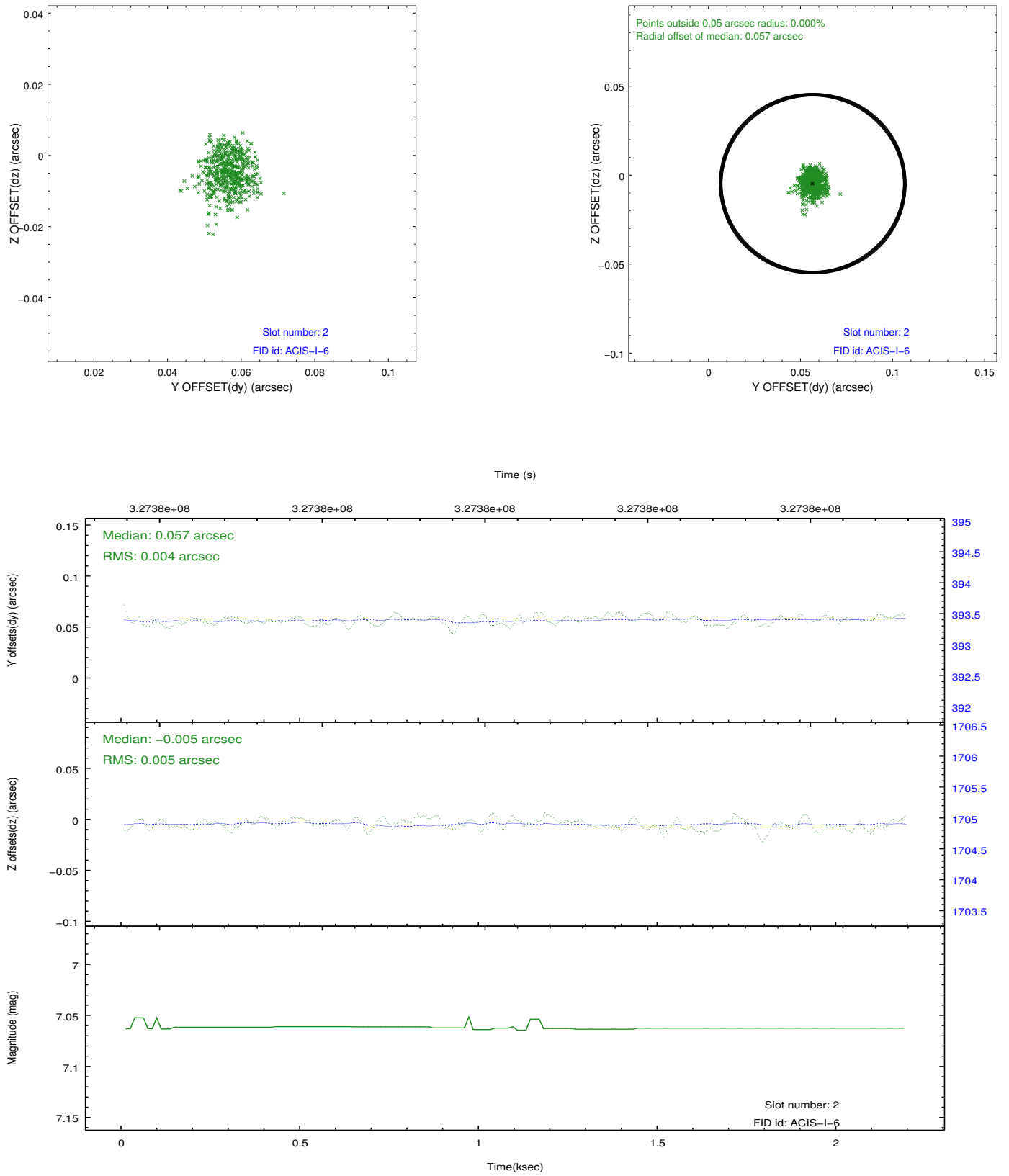
### 2.5.1 Slot 0



## 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	2.17930001

### A.2 Comments