

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 6640 - L2 Version 2  
Chandra X-Ray Center

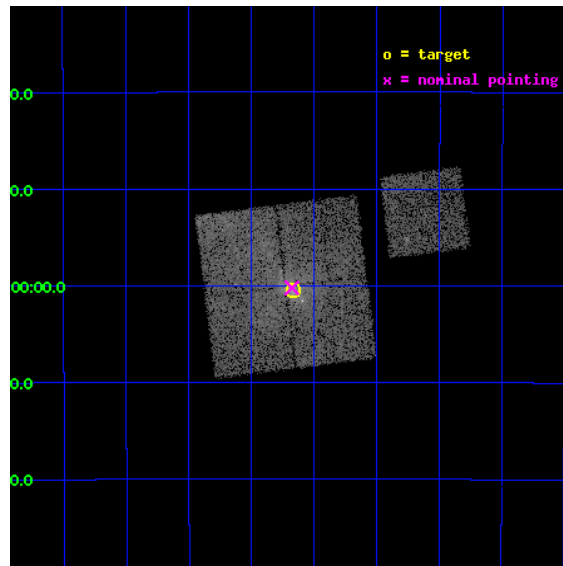
L2 Processing Date : Mar 31 2012

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# 1 Front

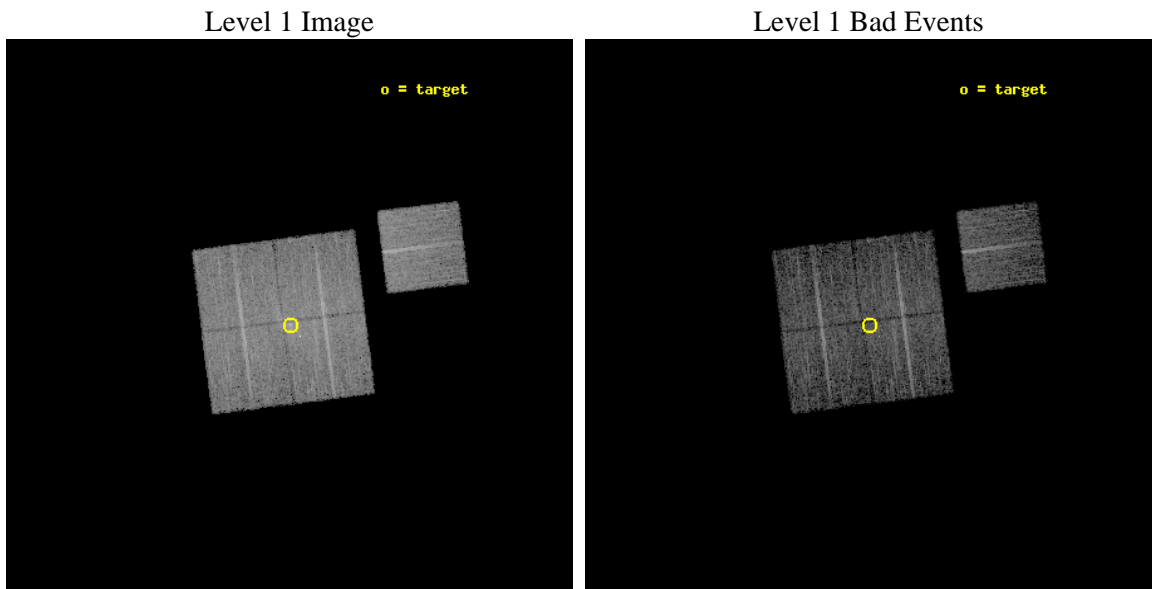
seq_num	400545	Sequence number
obs_id	6640	Observation id
title	Monitoring Faint X-ray Transients in the Galactic Center	Proposal
observer	Dr. Frederick Baganoff	Principal investigator
object	Sgr A*	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.416667	Observer's specified target RA [deg]
dec_targ	-29.007778	Observer's specified target Dec [deg]
ra_nom	266.41935073191	Nominal RA [deg]
dec_nom	-29.003805398791	Nominal Dec [deg]
roll_nom	82.843466435848	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5164.5999900401	Sum of GTIs [s]
livetime	5097.120689047	Livetime [s]
ontime0	5164.5999900401	Sum of GTIs [s]
ontime1	5164.5999900401	Sum of GTIs [s]
ontime2	5164.5999900401	Sum of GTIs [s]
ontime3	5164.5999900401	Sum of GTIs [s]
ontime6	5164.5999900401	Sum of GTIs [s]
l2events	46817	Number of level 2 events



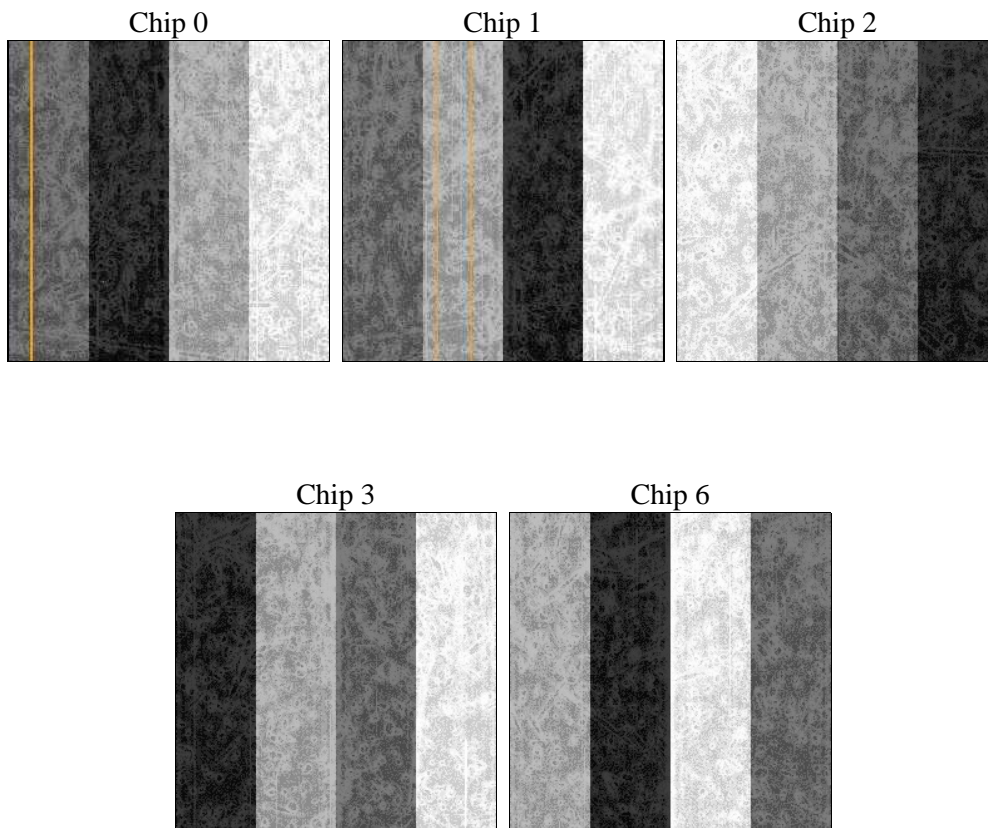
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	5164.5999900401	Sum of GTIs [s]
caldbver	4.4.8	&#160	ontime0	5164.5999900401	Sum of GTIs [s]
date	2012-03-31T11:01:34	Date and time of file creation	ontime1	5164.5999900401	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5164.5999900401	Sum of GTIs [s]
			ontime3	5164.5999900401	Sum of GTIs [s]
			ontime6	5164.5999900401	Sum of GTIs [s]
			l1events	271577	Number of level 1 events

### 2.1.4 Events

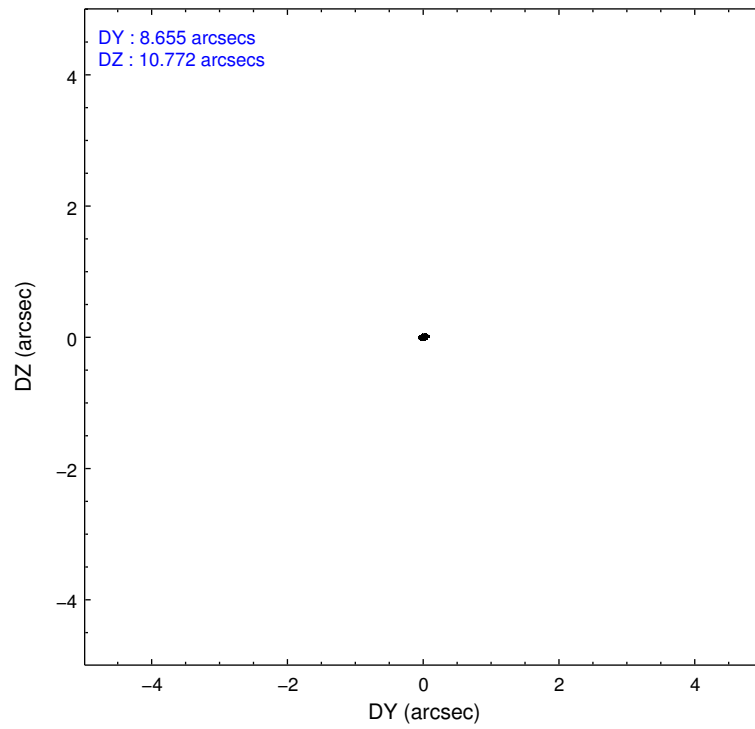
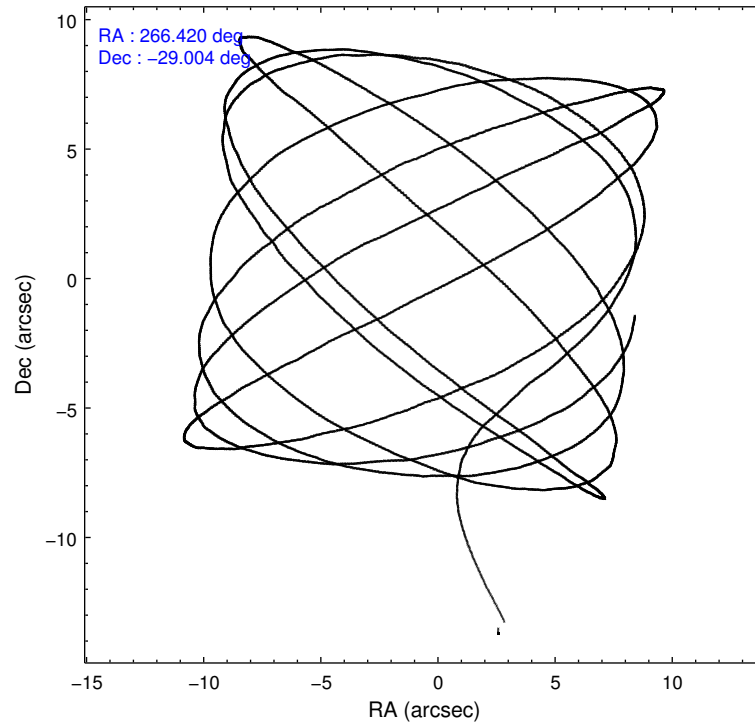
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	54562	51730	54749	58045	52491
rejected events	41106	41326	45061	46010	46025
rejected %	75%	79%	82%	79%	87%

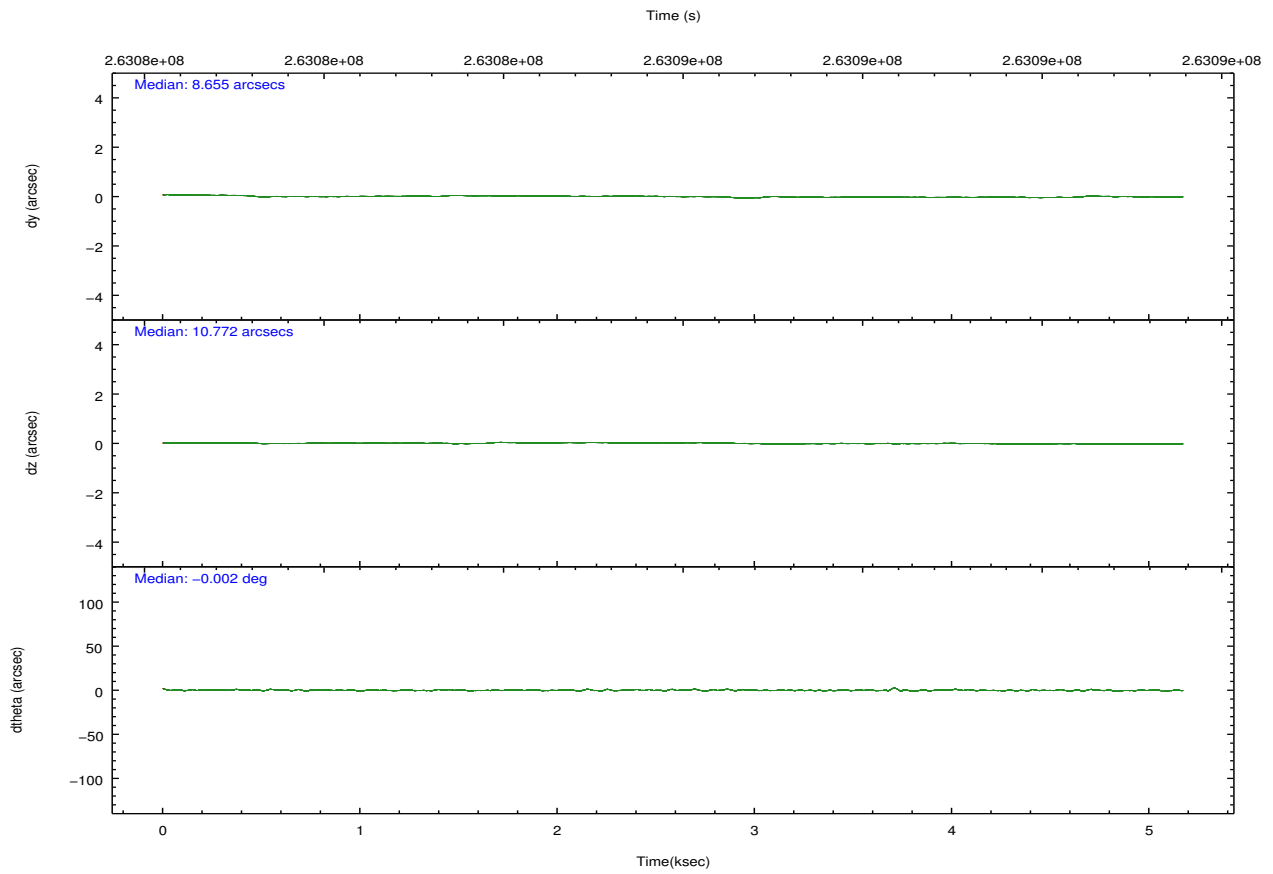
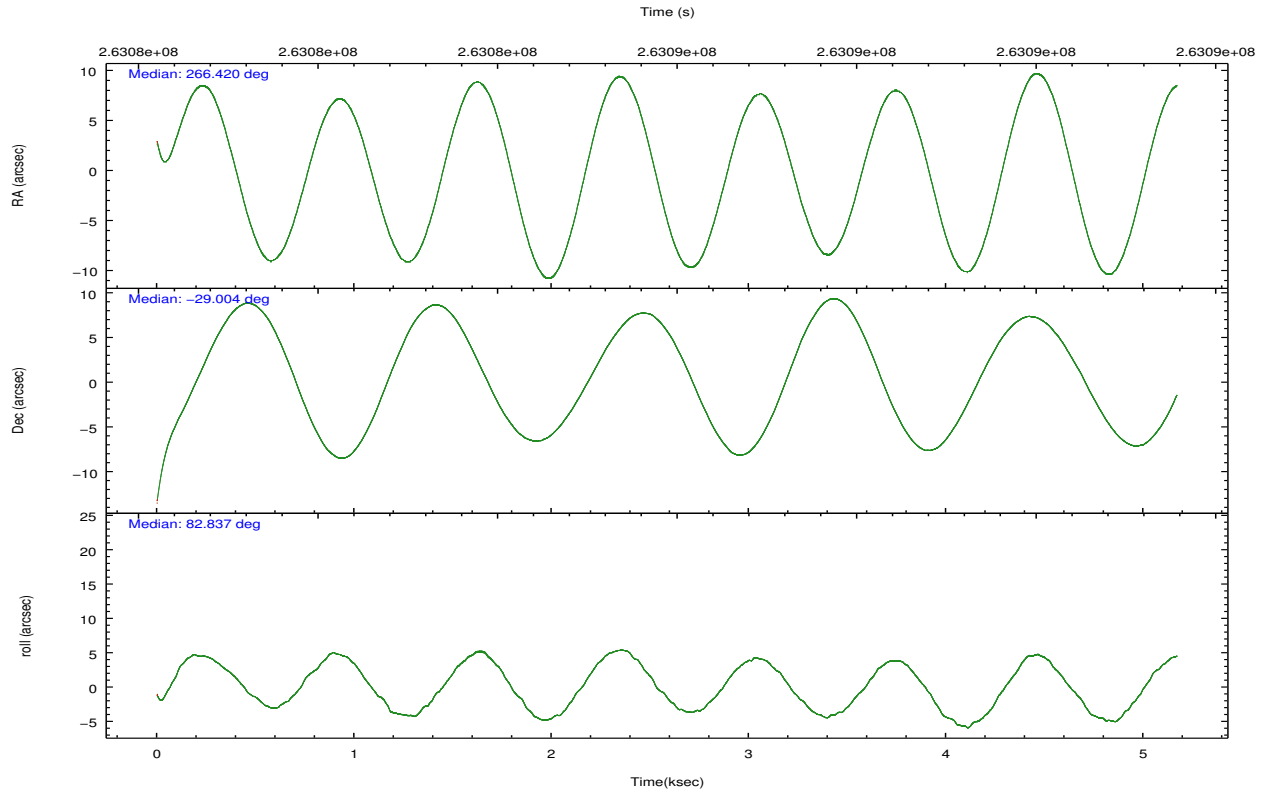
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8209	5780	5572	7028	3020
	15%	11%	10%	12%	5%
grade 1 events	67	43	50	102	37
	0%	0%	0%	0%	0%
grade 2 events	2379	2068	1828	2065	1352
	4%	3%	3%	3%	2%
grade 3 events	992	831	775	909	621
	1%	1%	1%	1%	1%
grade 4 events	932	821	744	943	594
	1%	1%	1%	1%	1%
grade 5 events	2048	2278	1957	2289	2311
	3%	4%	3%	3%	4%
grade 6 events	1642	1539	1282	1696	1277
	3%	2%	2%	2%	2%
grade 7 events	38293	38370	42541	43013	43279
	70%	74%	77%	74%	82%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	266.431600	266.4193507319101	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.028952	-29.0038053987905	Alternating exposures requested	N	N
[deg] Pointing Roll	82.640726	82.84346643584757	[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)	263083534.184000	263082386.80969			
Observation start date	2006-05-03T22:44:29	2006-05-03T22:26:26			
[s] Observation end time (MET)	263088534.184000	263089449.06002			
Observation end date	2006-05-04T00:07:49	2006-05-04T00:24:09			
Read mode	TIMED	TIMED			

## 2.3 Aspect



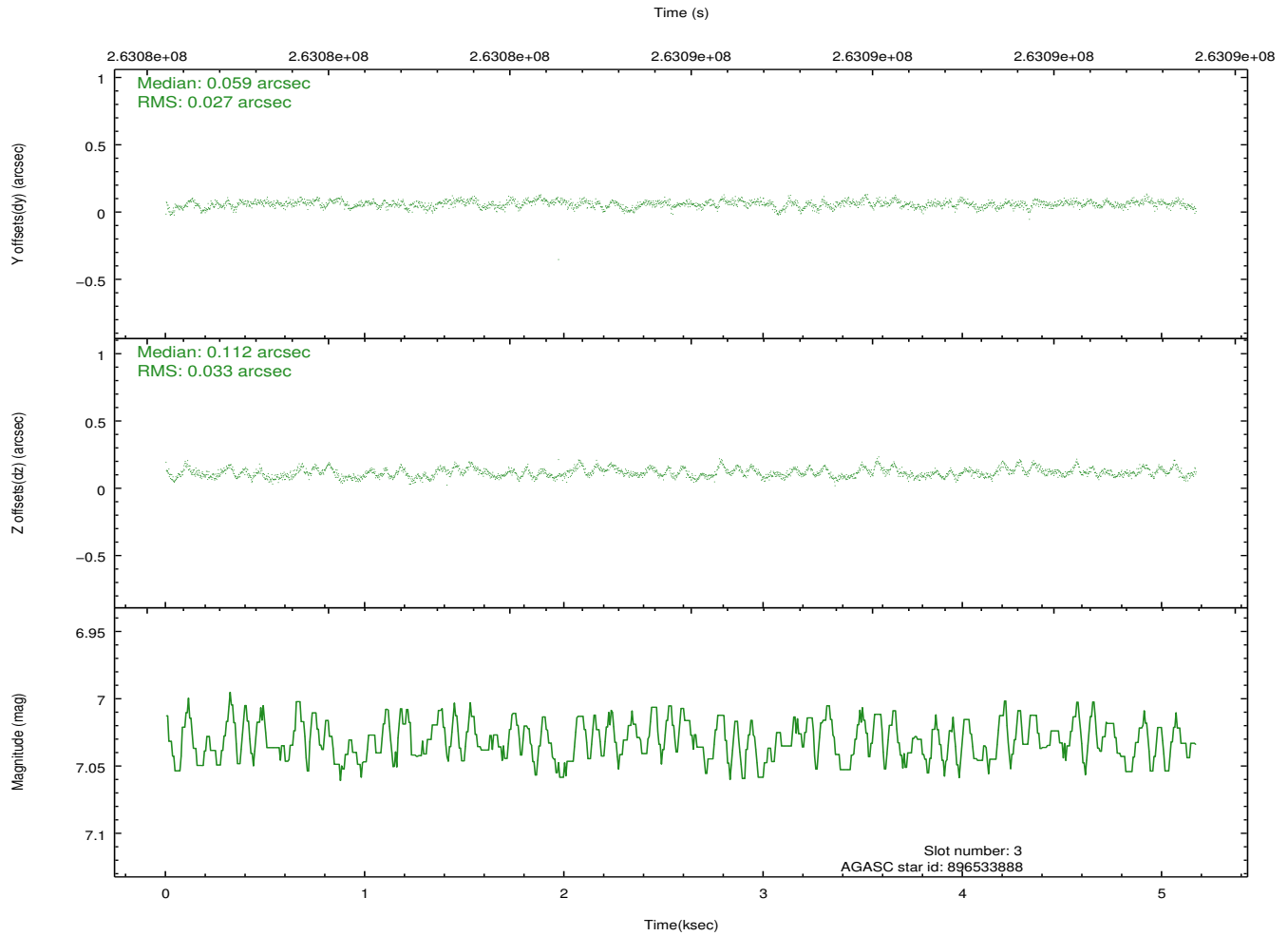
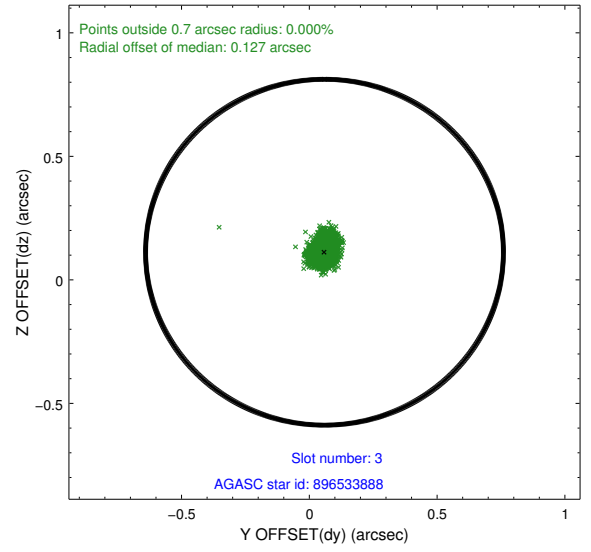
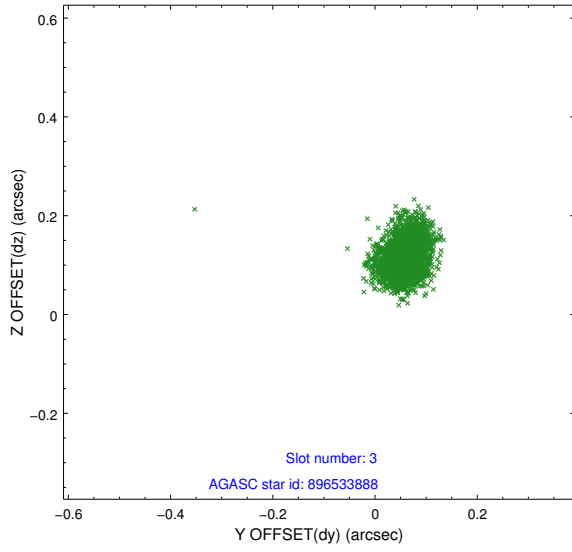


### Slot Statistics

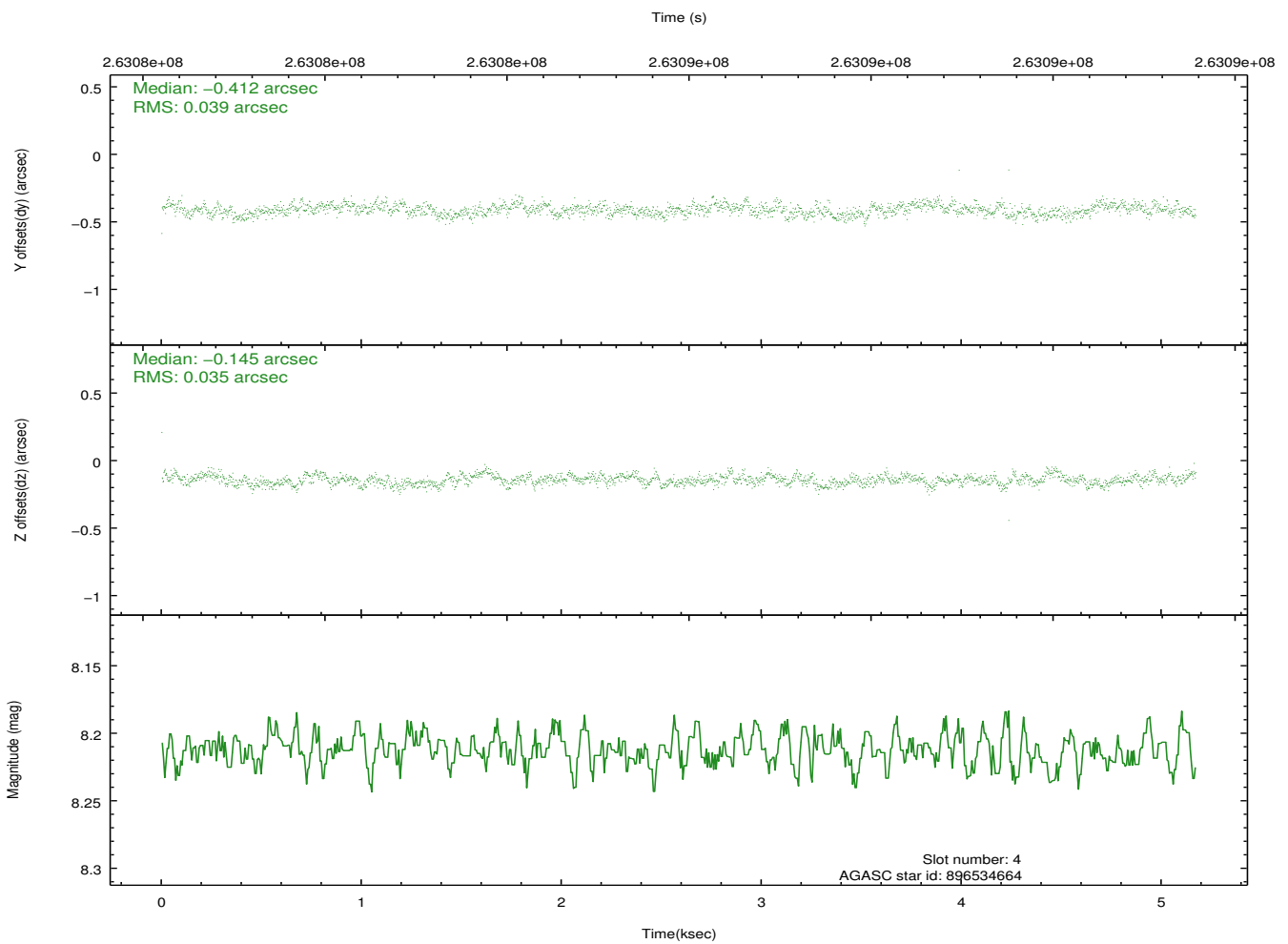
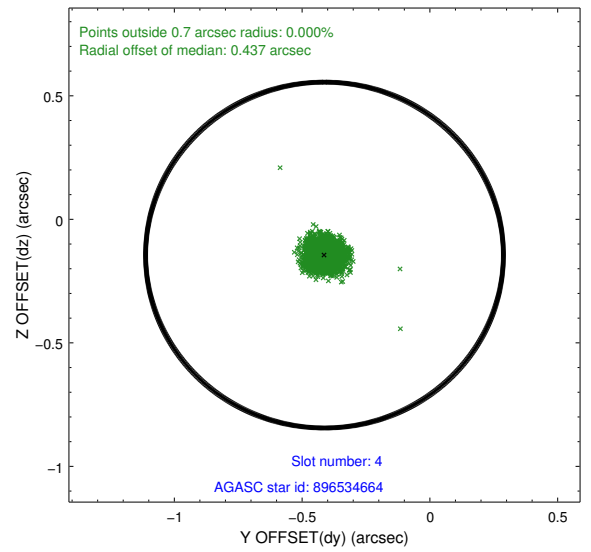
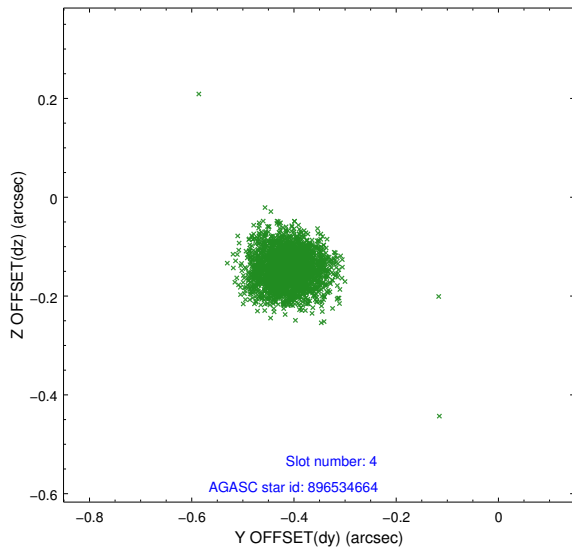
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1262	0.047	-0.044	0.006	0.011	0.000000	0.000000	931.02	-834.31
1	FID	ACIS-I-5	7.23	1261	-0.206	0.046	0.006	0.011	0.000000	0.000000	-1816.67	1062.70
2	FID	ACIS-I-6	7.25	1262	0.068	0.069	0.007	0.011	0.000000	0.000000	395.33	1708.54
3	GUIDE	896533888	7.03	2523	0.059	0.112	0.045	0.073	266.666434	-29.392757	-1204.85	-898.09
4	GUIDE	896534664	8.21	2520	-0.412	-0.145	0.055	0.088	266.405570	-28.407461	2207.74	368.38
5	GUIDE	896537776	7.53	2523	0.232	0.123	0.050	0.079	266.655684	-29.665673	-2182.70	-988.60
6	GUIDE	896541576	8.19	2522	-0.071	0.232	0.065	0.102	267.051055	-28.762912	1194.77	-1816.51
7	GUIDE	896403224	8.28	2521	0.191	-0.325	0.081	0.122	265.612825	-29.438915	-1800.89	2354.72

## 2.4 Star Slots

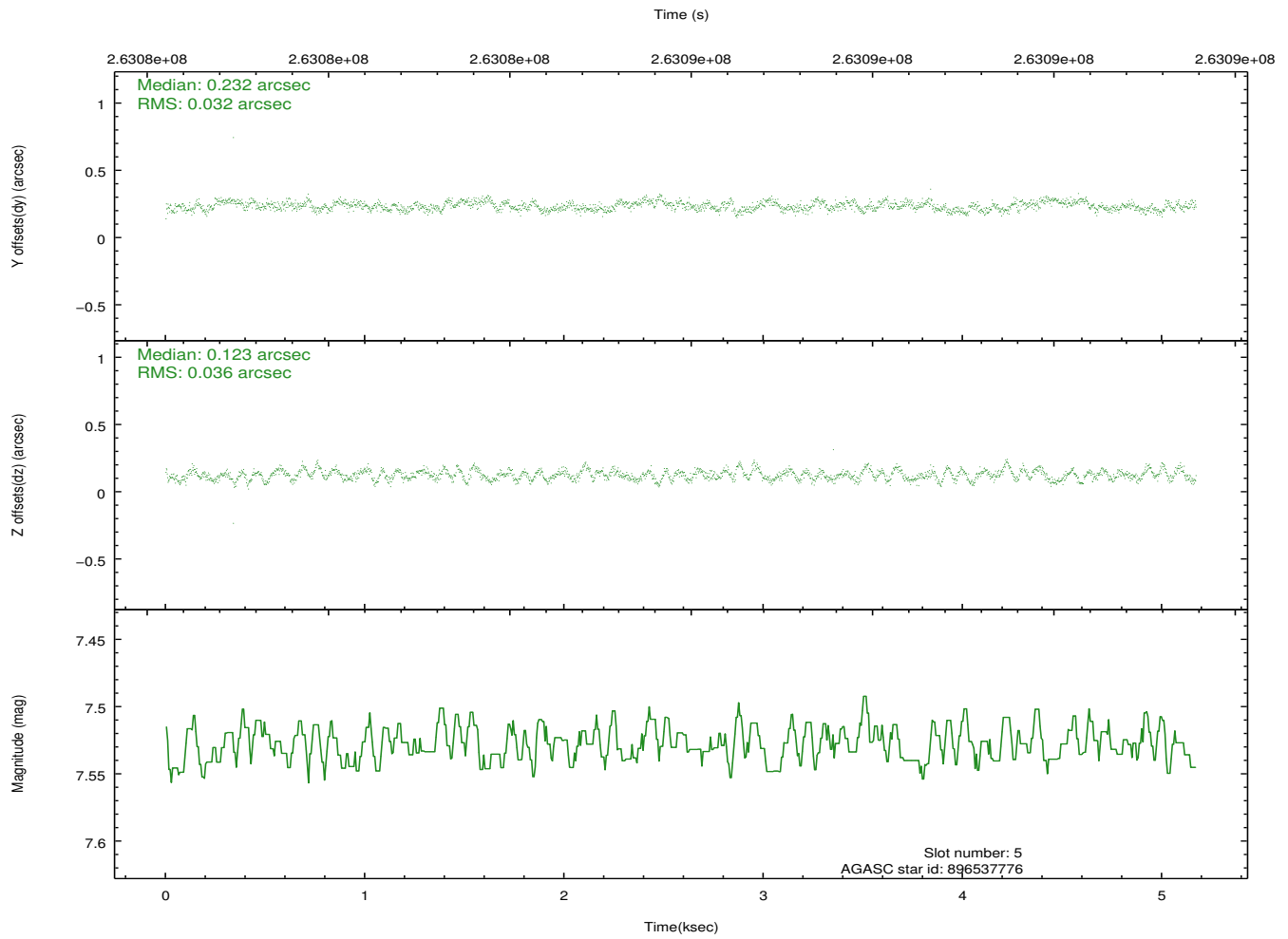
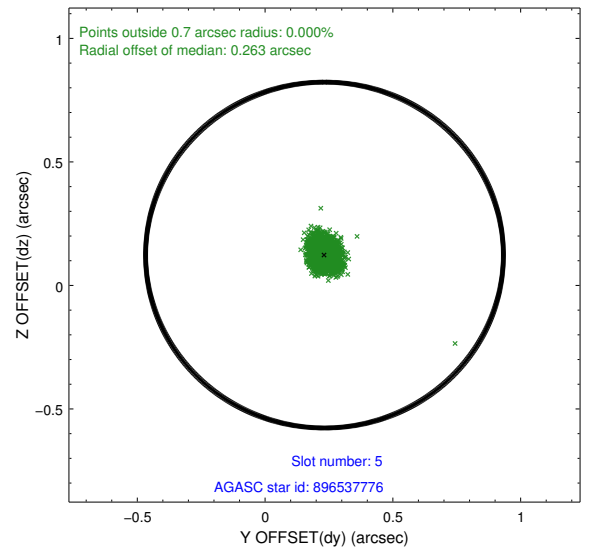
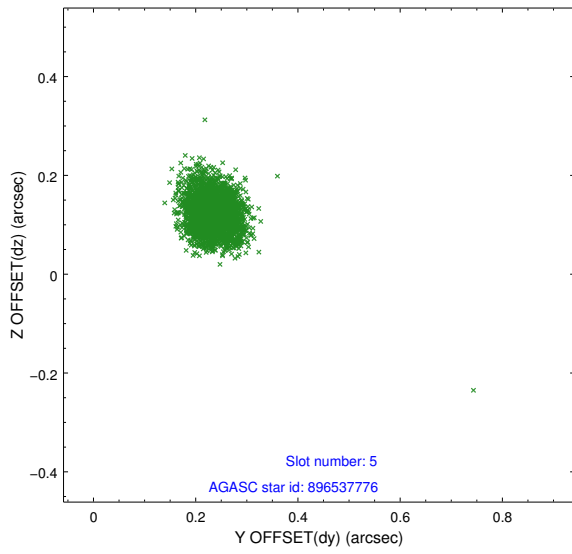
### 2.4.1 Slot 3



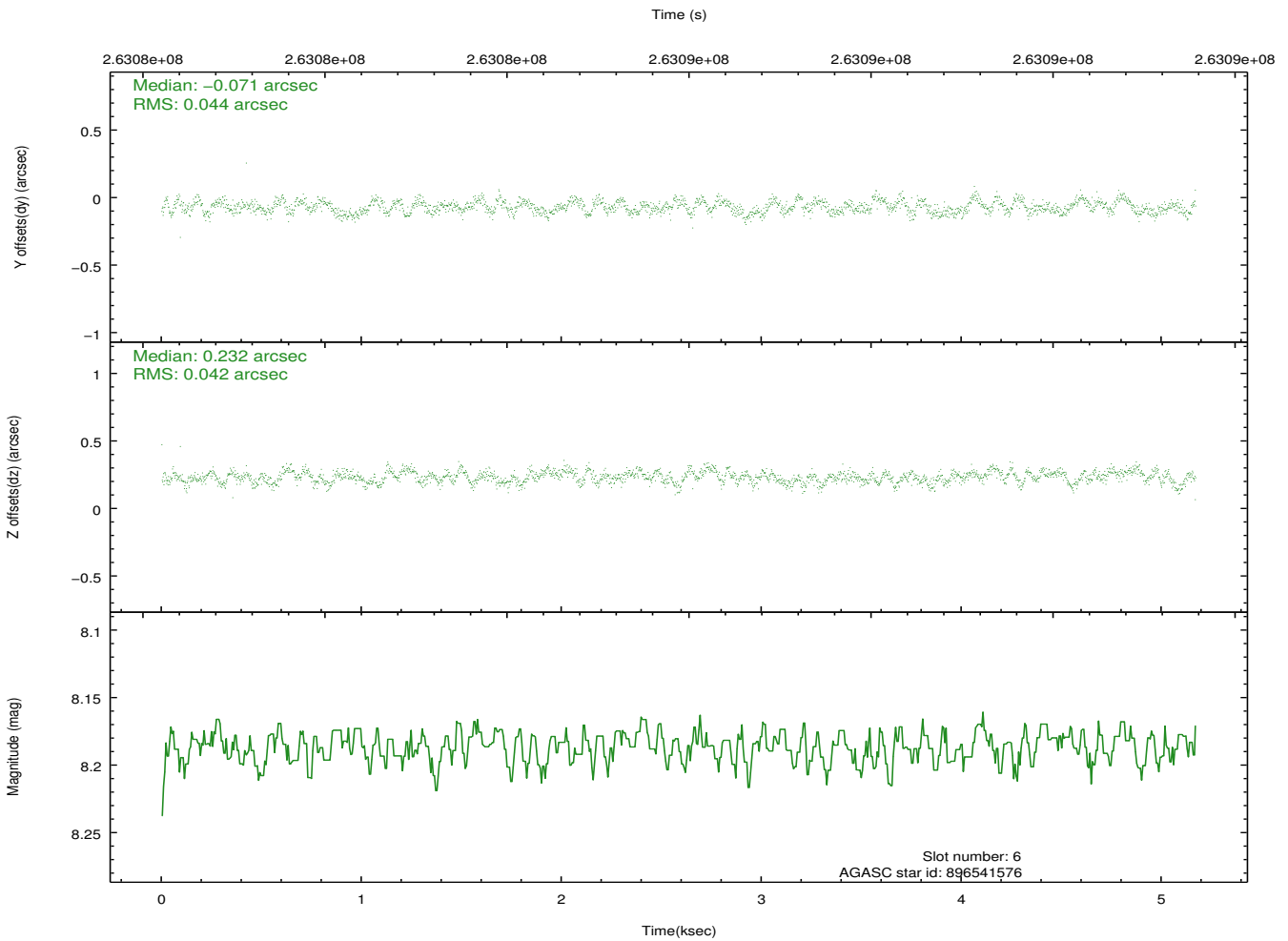
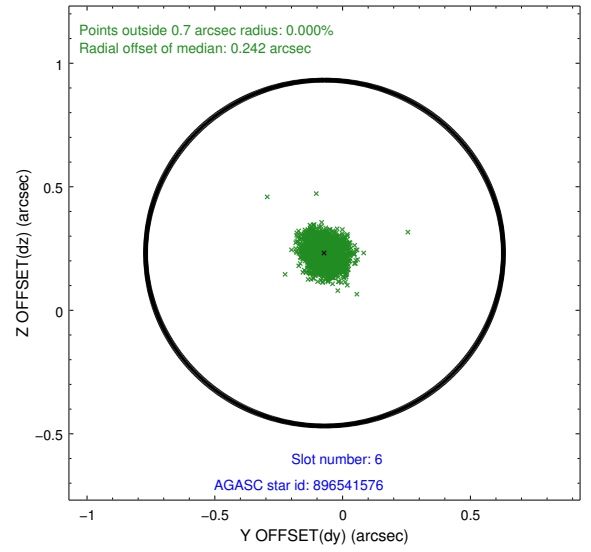
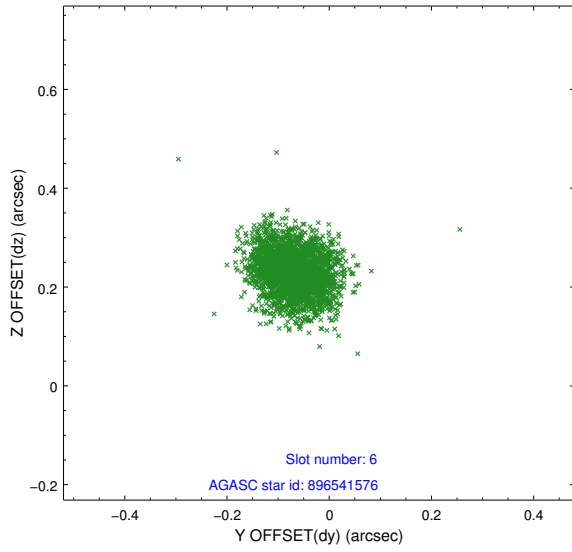
## 2.4.2 Slot 4



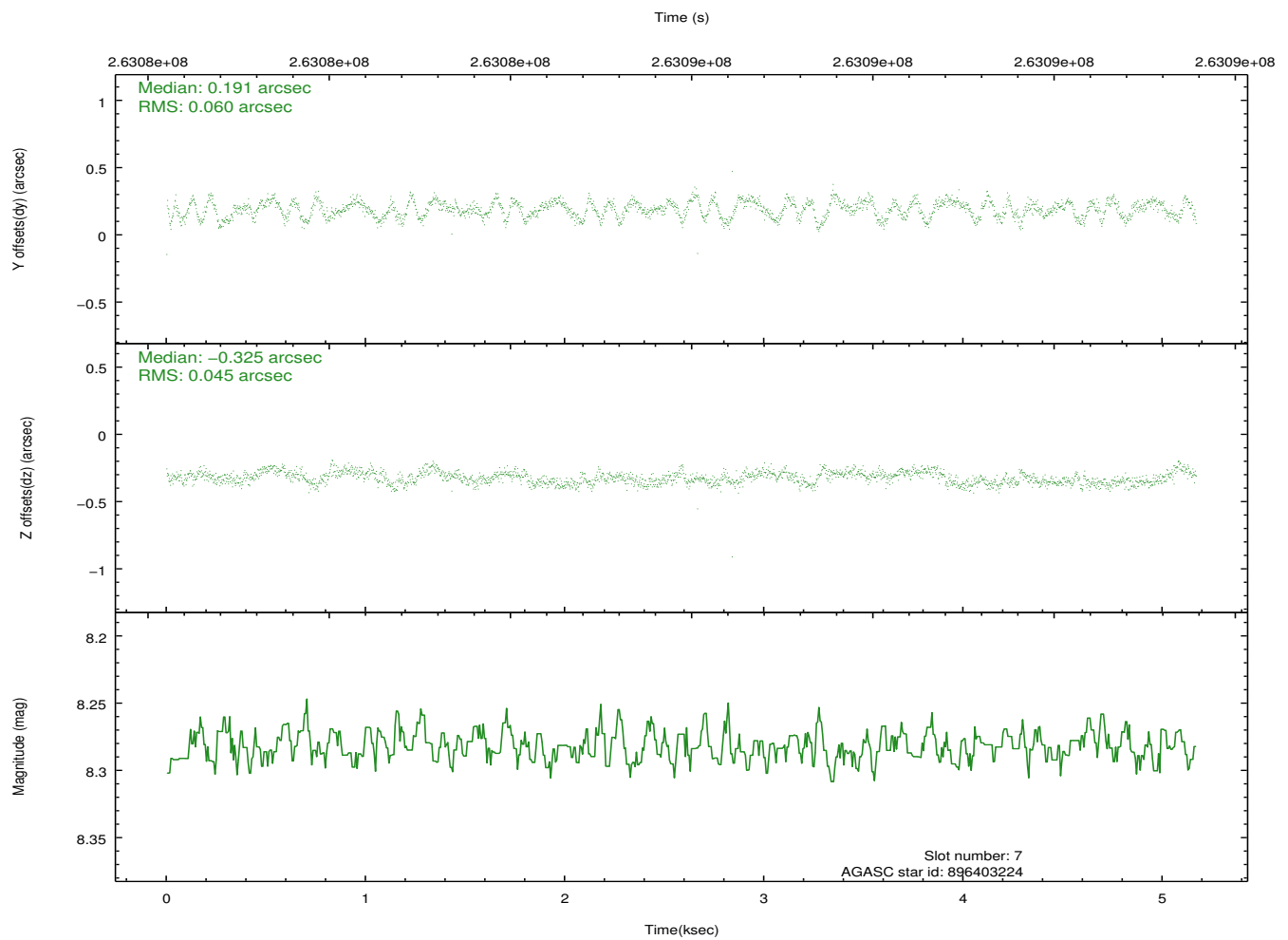
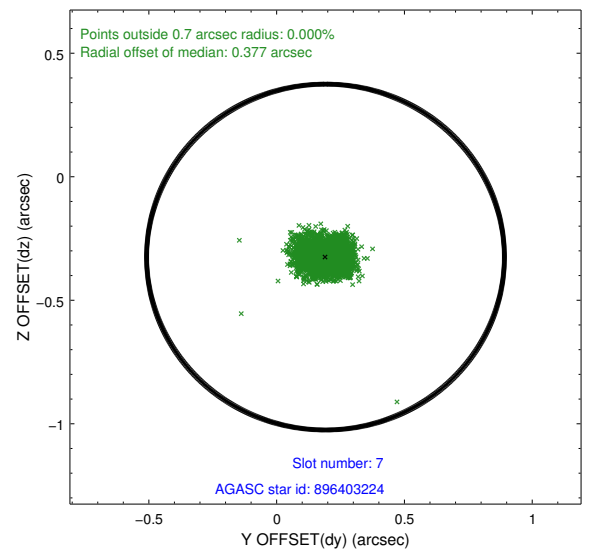
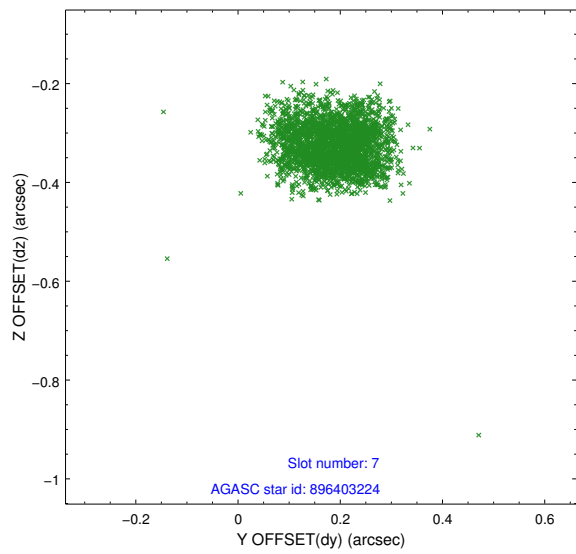
### 2.4.3 Slot 5



## 2.4.4 Slot 6

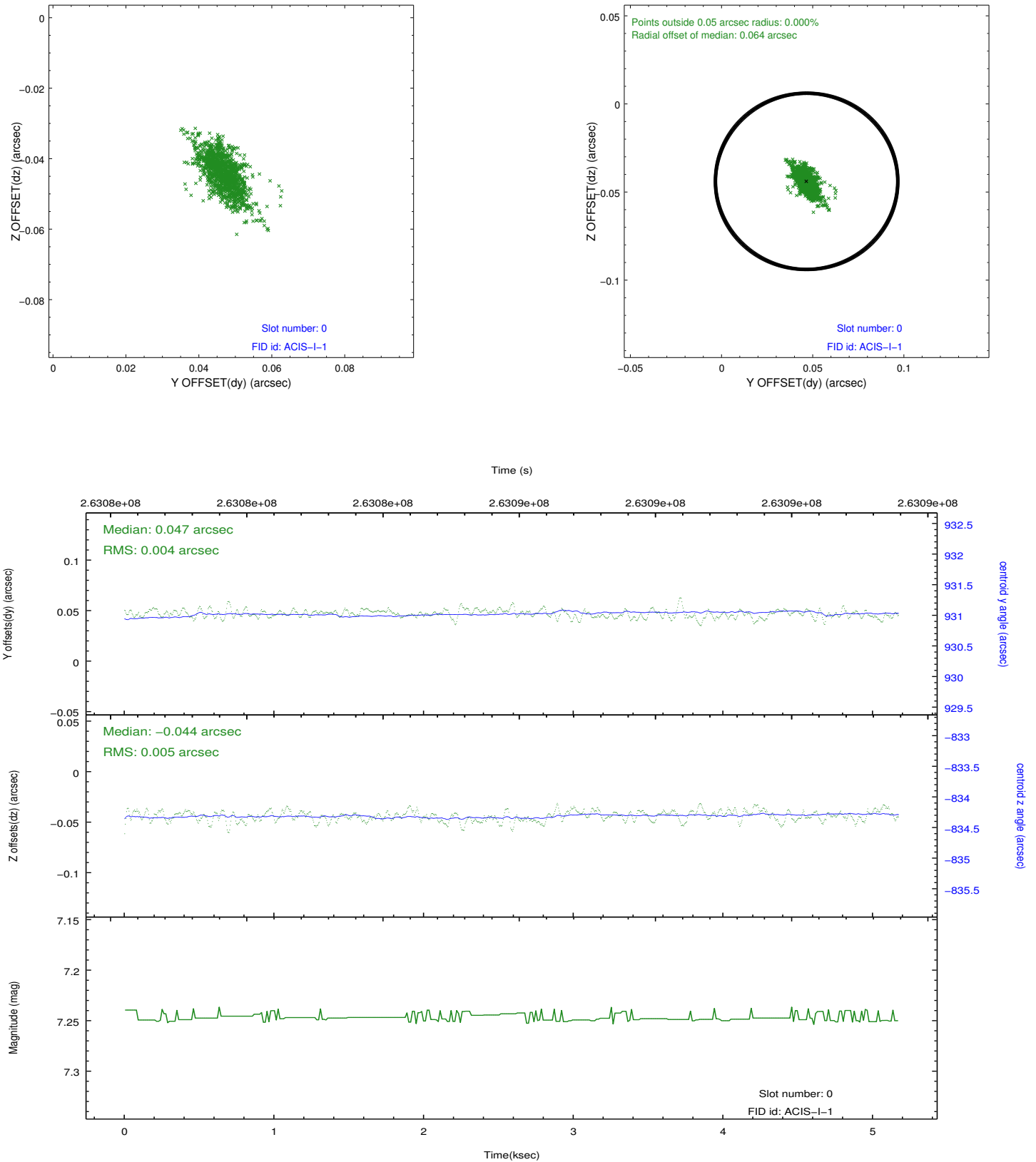


## 2.4.5 Slot 7

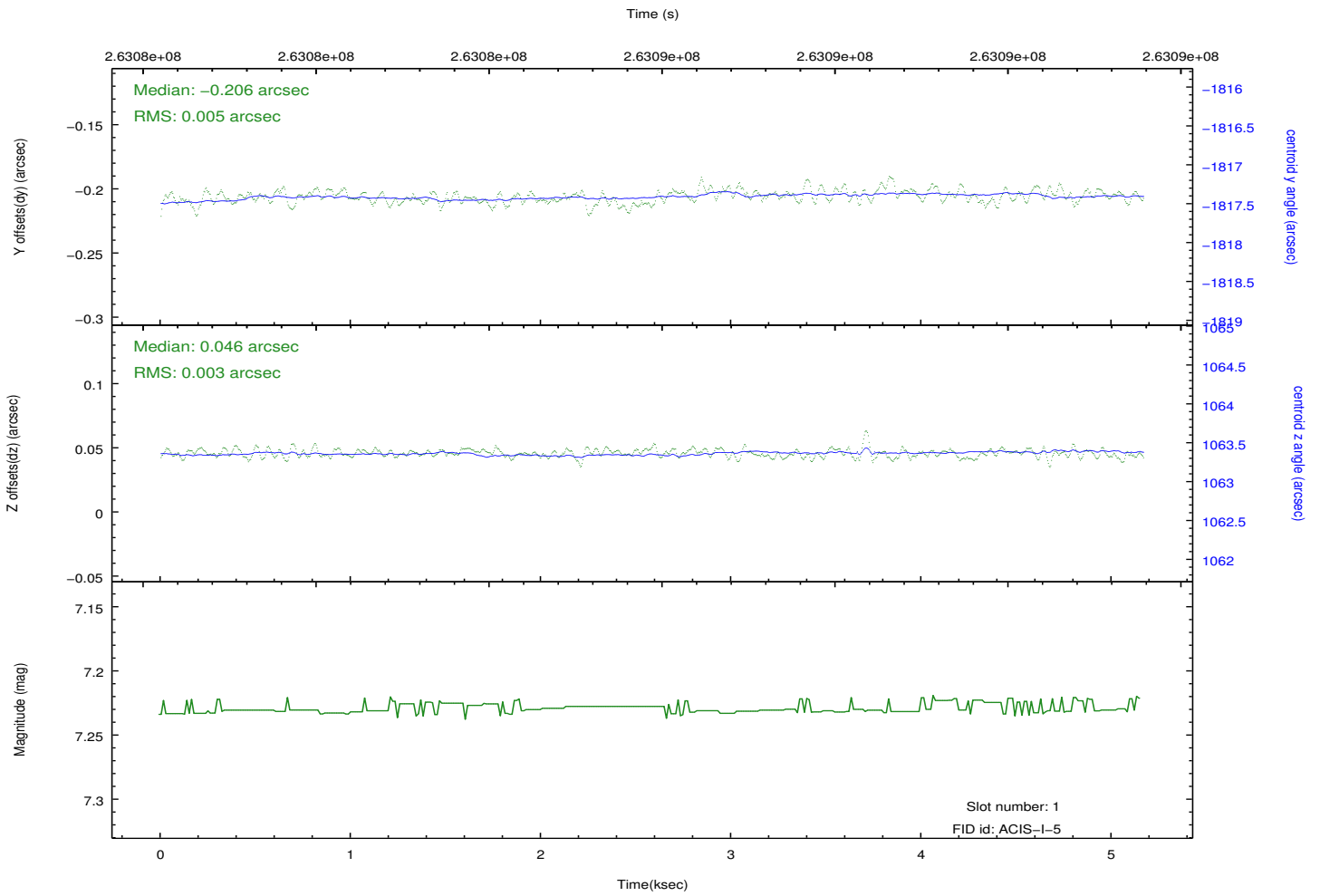
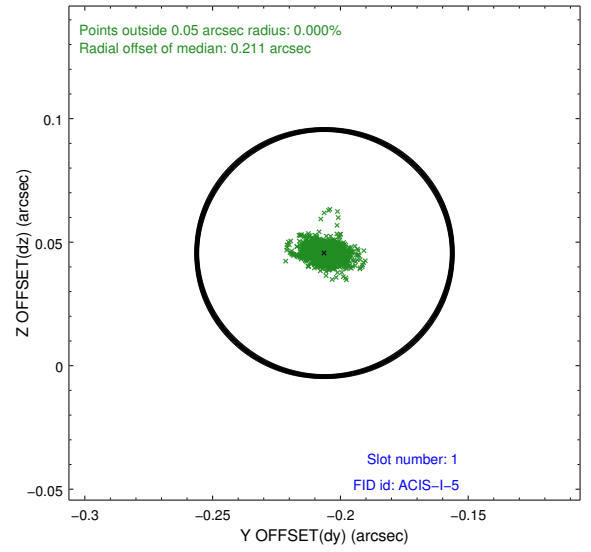
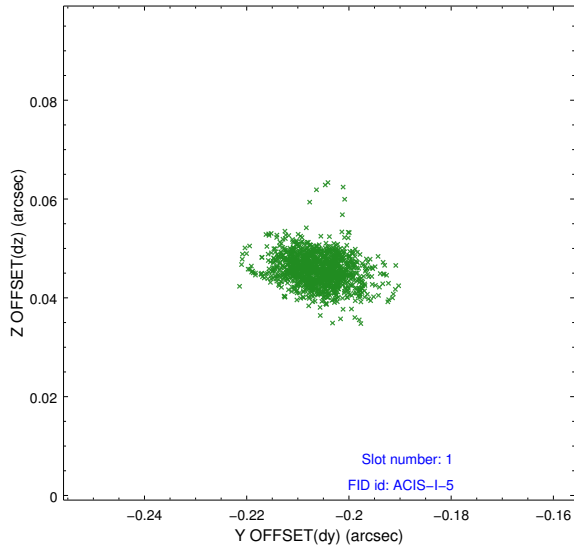


## 2.5 FID Slots

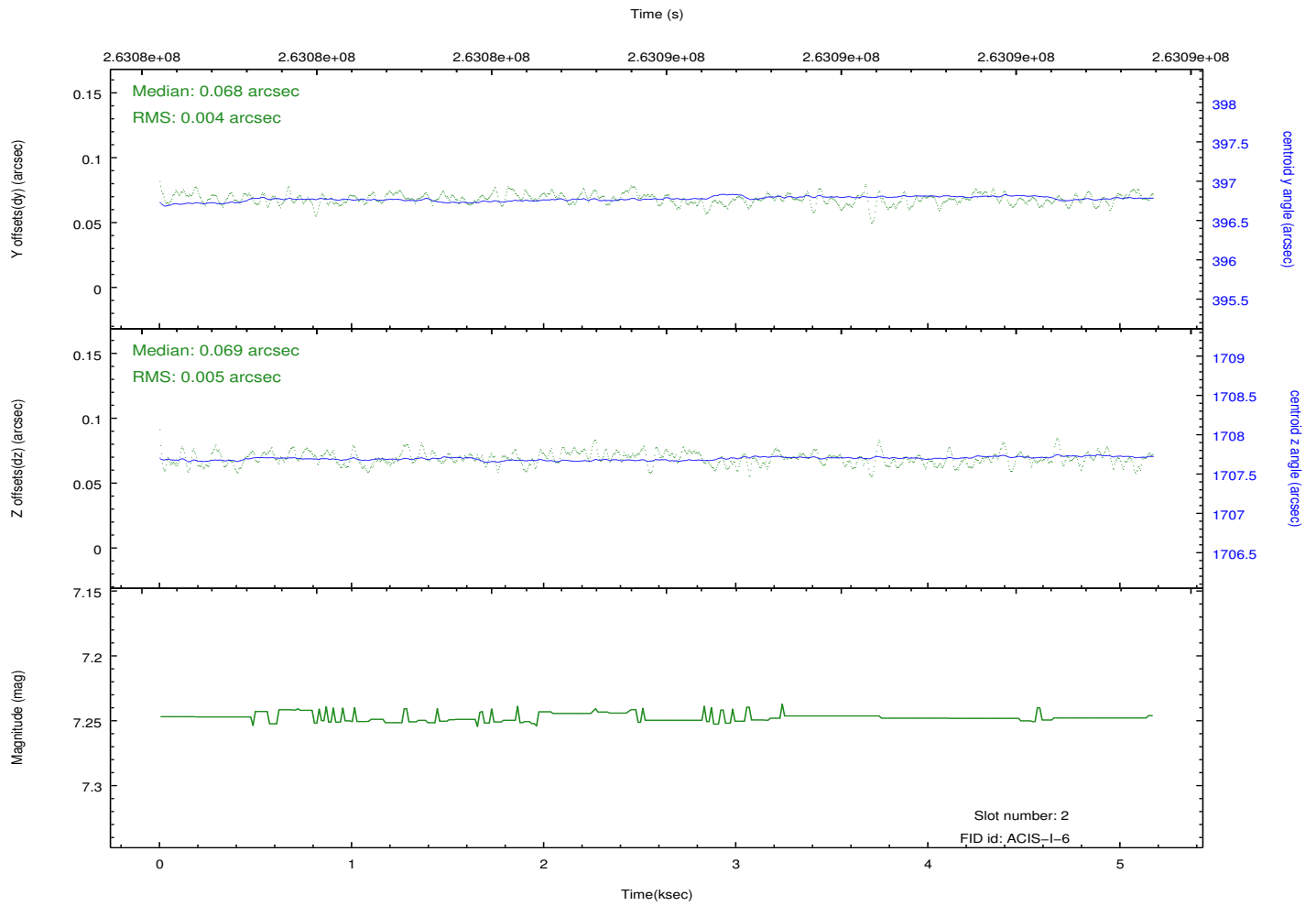
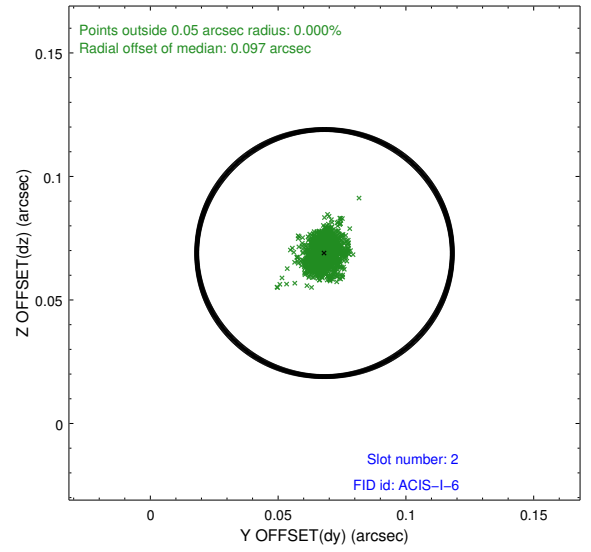
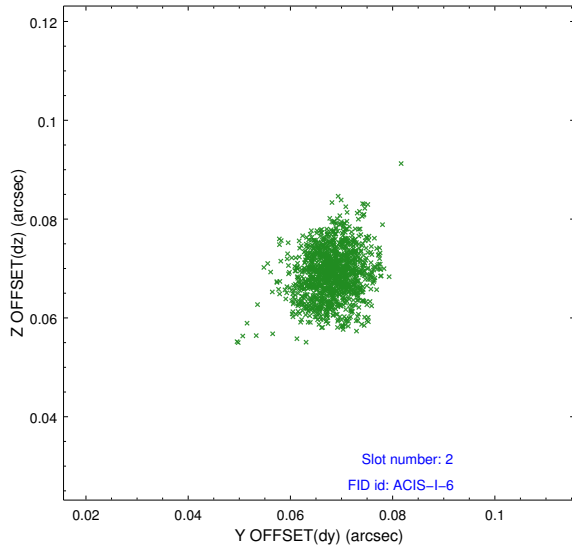
### 2.5.1 Slot 0



## 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)	2012.04.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.16459999

## A.2 Comments

Some of the bright sources near the CCD chip boundaries may have dithered onto the chip boundaries or the permanent bad columns in the bias maps. Care should be taken when doing timing analysis for these sources.