

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9768 - L2 Version 2  
Chandra X-Ray Center

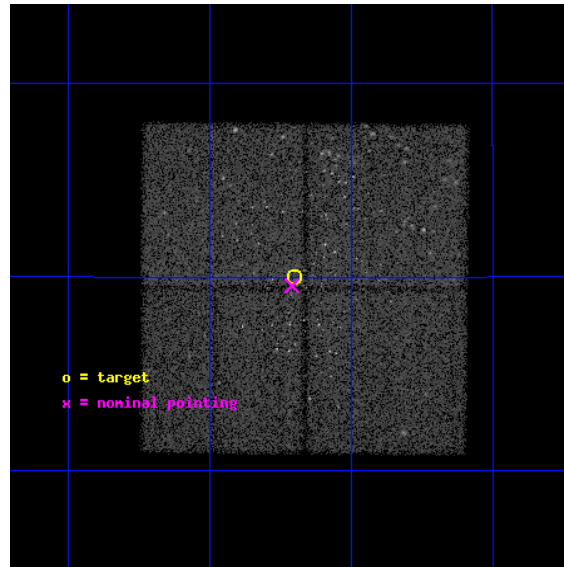
L2 Processing Date : May 11 2012

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# 1 Front

seq_num	200526	Sequence number
obs_id	9768	Observation id
title	The physics of flares in young stellar objects	Proposal title
observer	Dr Giuseppina Micela	Principal investigator
object	NGC 2264 field 1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	100.3	Observer's specified target RA [deg]
dec_targ	9.5	Observer's specified target Dec [deg]
ra_nom	100.30249939474	Nominal RA [deg]
dec_nom	9.4923114878177	Nominal Dec [deg]
roll_nom	270.39086082425	Nominal Roll [deg]
revision	2	Processing version of data
ontime	28154.182851434	Sum of GTIs [s]
livetime	27786.327725672	Livetime [s]
ontime0	28154.059731424	Sum of GTIs [s]
ontime1	28154.100771427	Sum of GTIs [s]
ontime2	28154.14181143	Sum of GTIs [s]
ontime3	28154.182851434	Sum of GTIs [s]
l2events	129046	Number of level 2 events

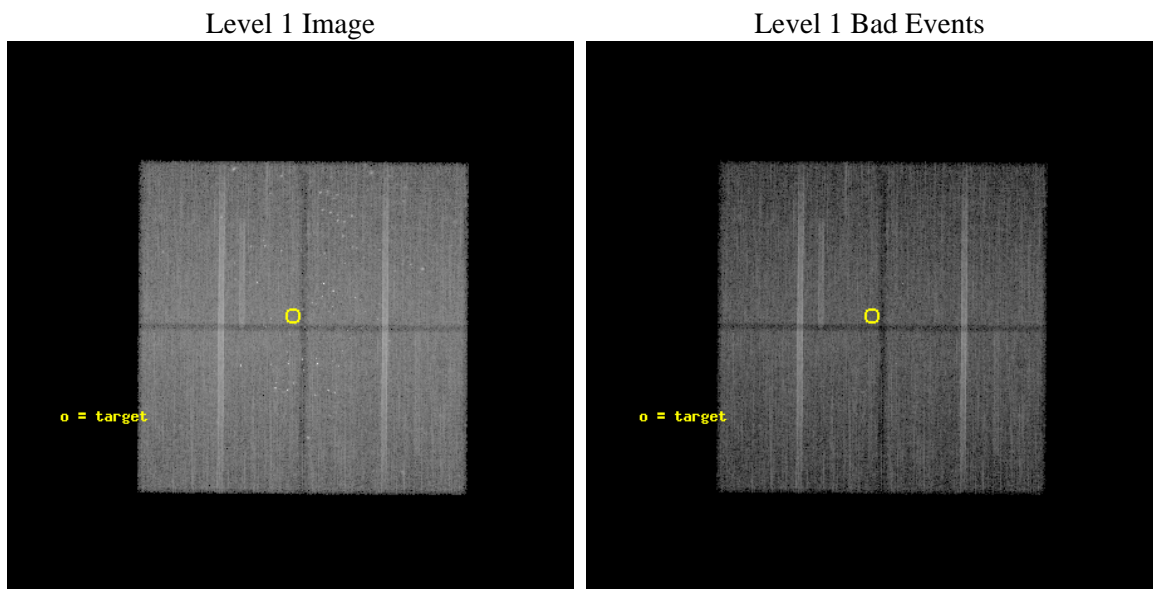




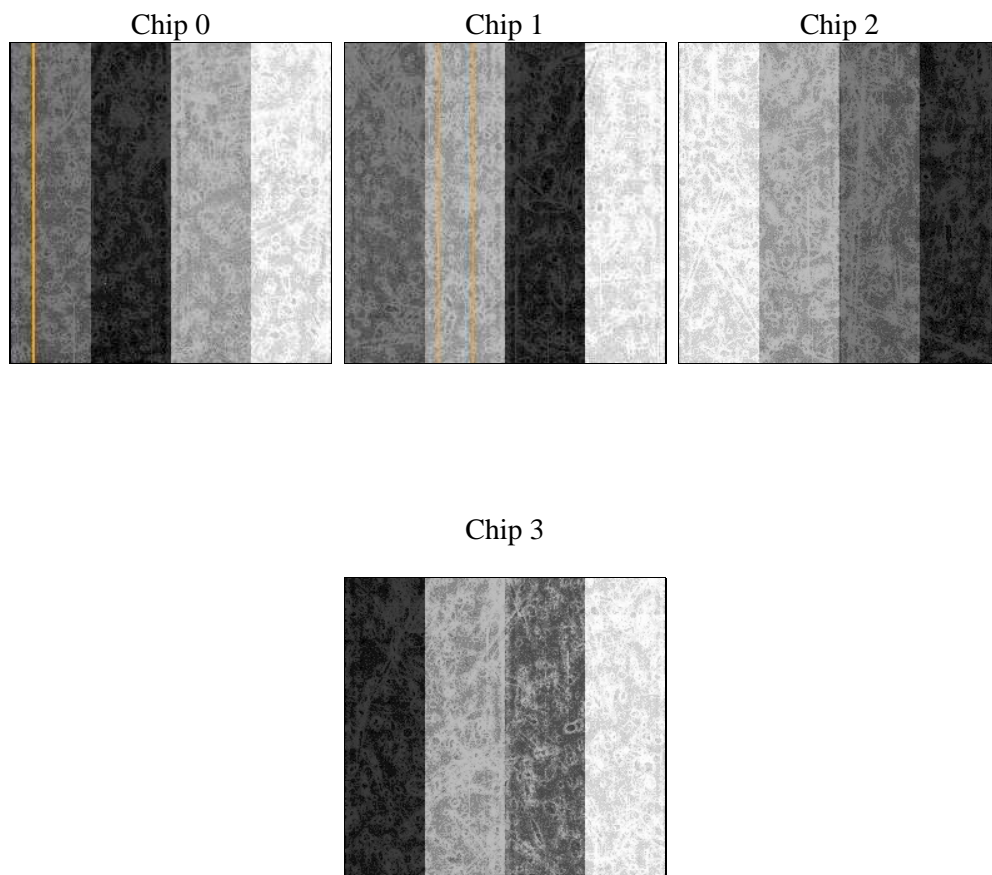
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	28000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	28154.182851434	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	28154.059731424	Sum of GTIs [s]
date	2012-05-11T13:06:20	Date and time of file creation	ontime1	28154.100771427	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	28154.14181143	Sum of GTIs [s]
			ontime3	28154.182851434	Sum of GTIs [s]
			l1events	1032485	Number of level 1 events

### 2.1.4 Events

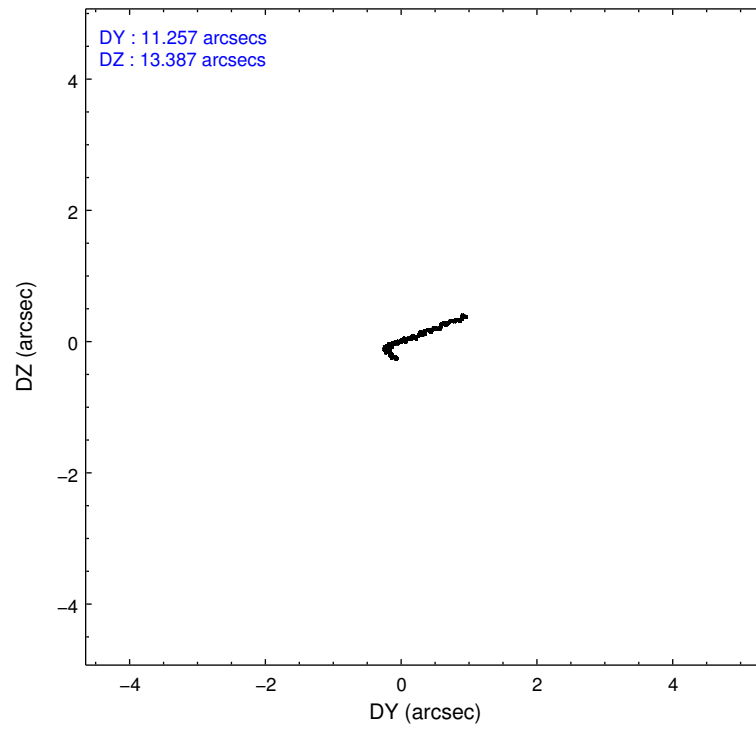
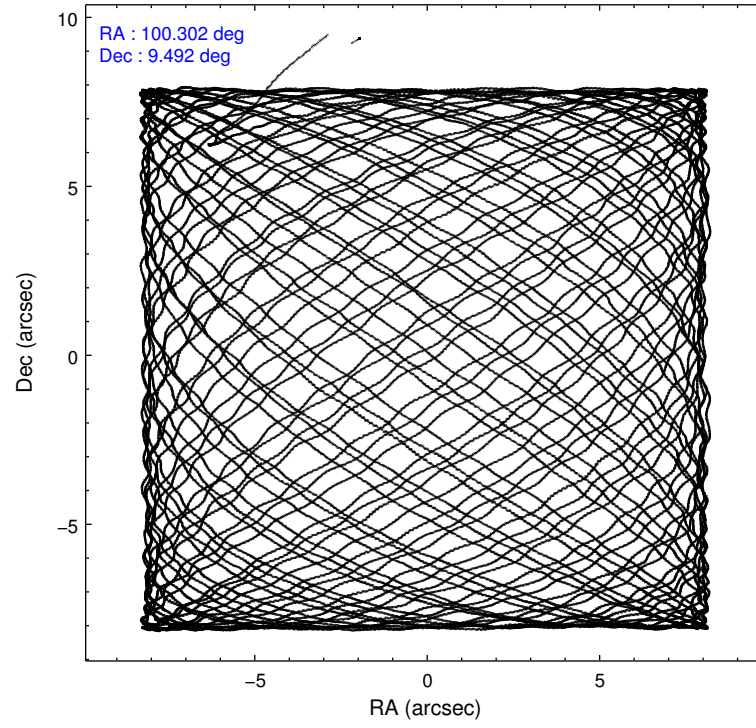
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	249669	253203	263783	265830
rejected events	213184	210754	228830	230947
rejected %	85%	83%	86%	86%

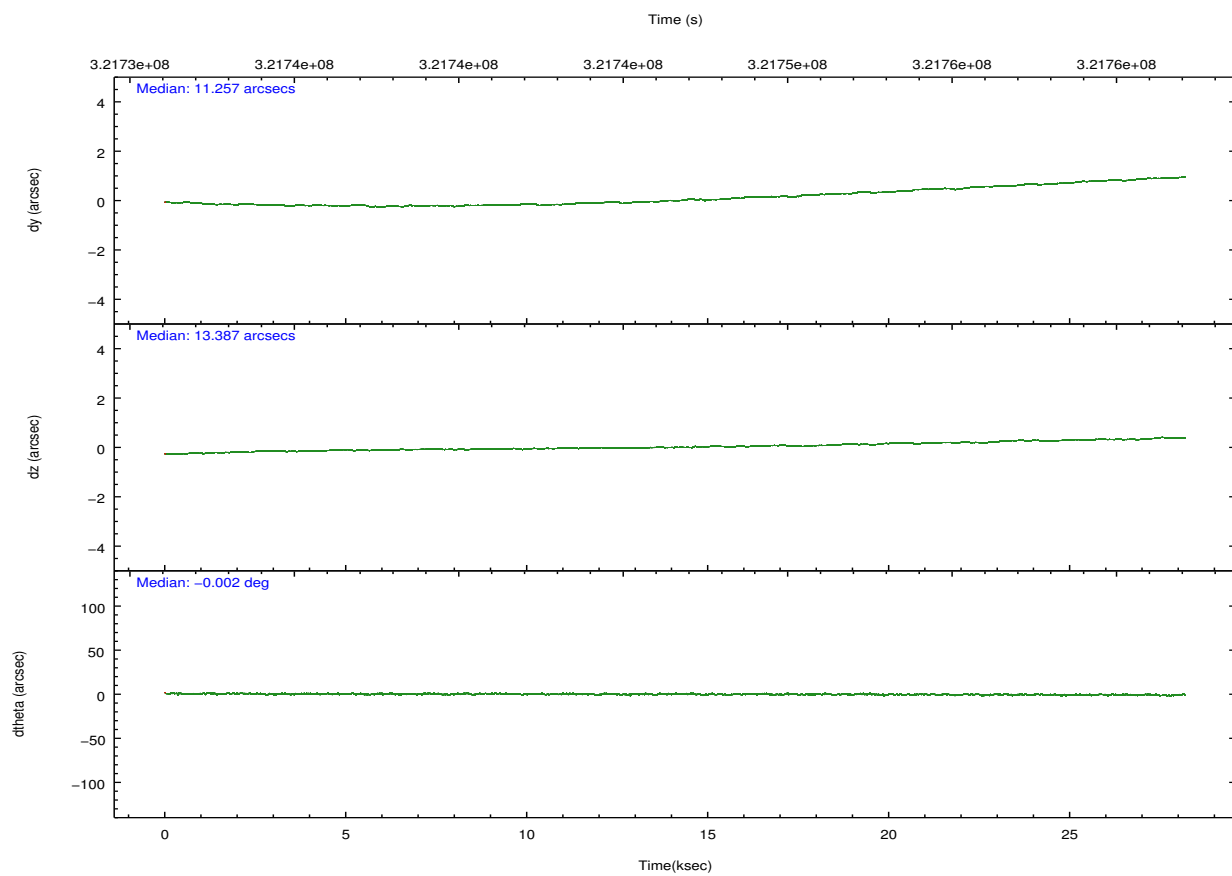
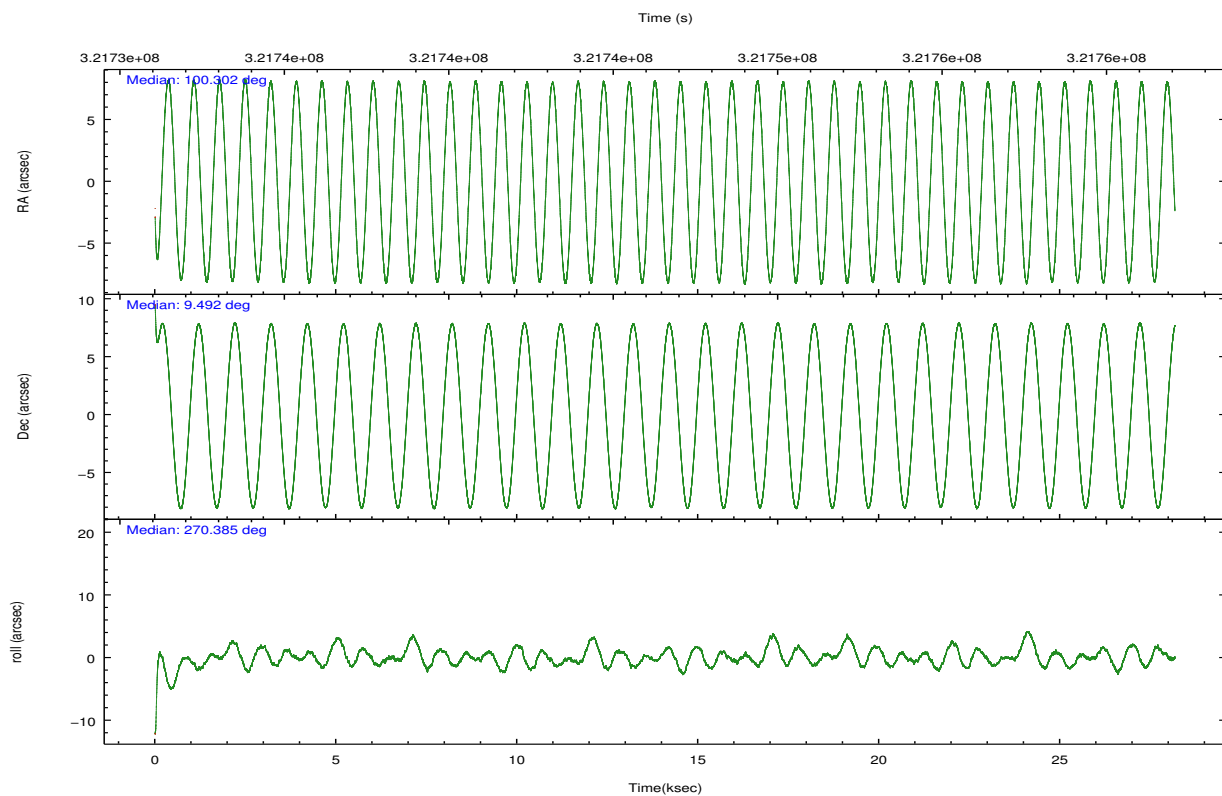
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	16980	19691	16616	16250
	6%	7%	6%	6%
grade 1 events	190	188	206	207
	0%	0%	0%	0%
grade 2 events	7622	8953	6910	6712
	3%	3%	2%	2%
grade 3 events	3166	3487	3008	3107
	1%	1%	1%	1%
grade 4 events	2968	3337	3000	3141
	1%	1%	1%	1%
grade 5 events	11072	11823	10645	12488
	4%	4%	4%	4%
grade 6 events	5759	6987	5425	5679
	2%	2%	2%	2%
grade 7 events	201912	198737	217973	218246
	80%	78%	82%	82%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	100.288292	100.3024993947421	Subarray requested	NONE	NONE
[deg] Pointing Dec	9.515963	9.492311487817739	Alternating exposures requested	N	N
[deg] Pointing Roll	270.184527	270.3908608242514	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	321580925.184000	321580925.184000			
[s] Window stop time (MET)	323305265.184000	323305265.184000			
[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)	321732666.184000	321731749.29112			
Observation start date	2008-03-12T18:10:01	2008-03-12T17:55:49			
[s] Observation end time (MET)	321760666.184000	321761440.46757			
Observation end date	2008-03-13T01:56:41	2008-03-13T02:10:40			
Read mode	TIMED	TIMED			

## 2.3 Aspect



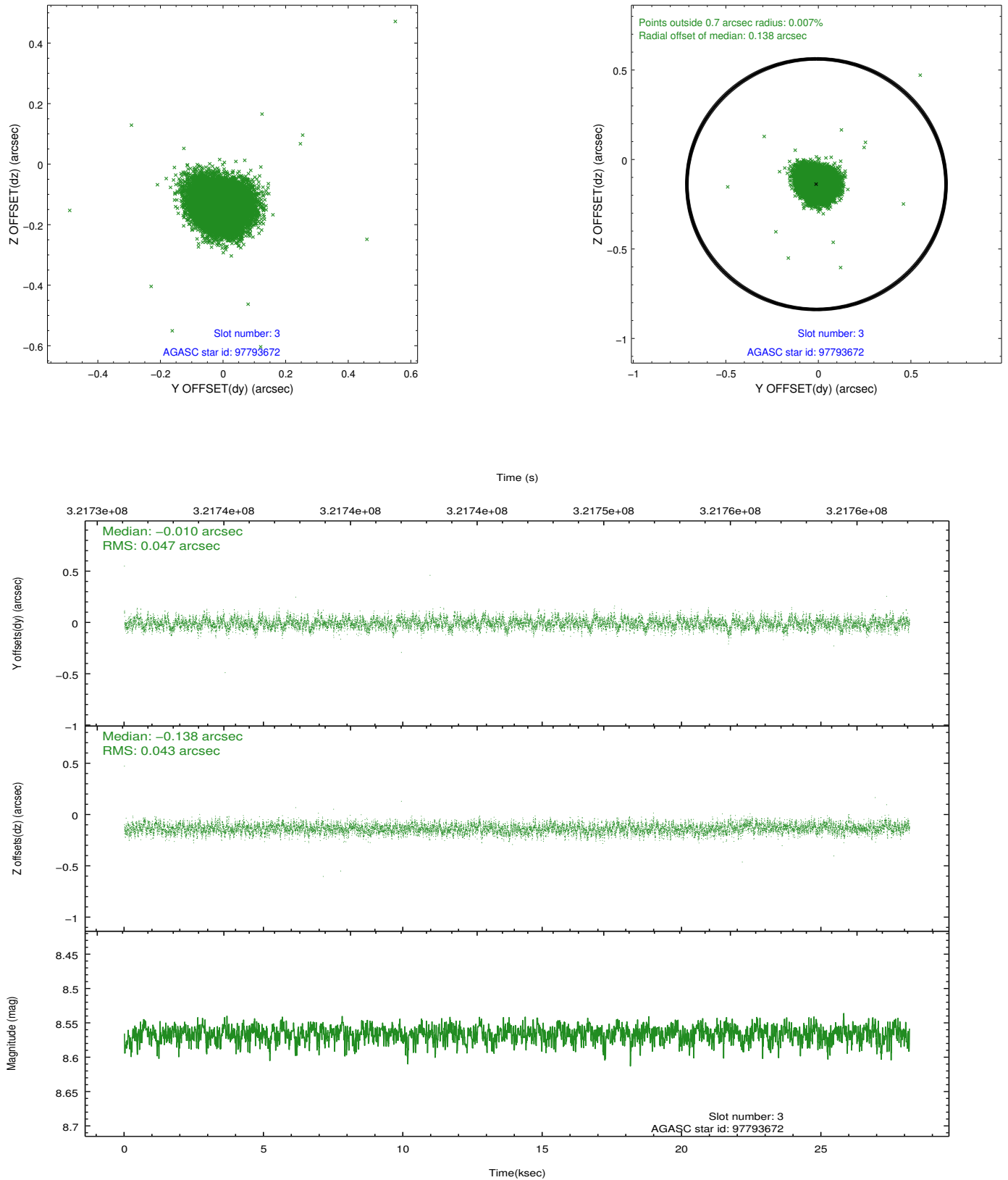


### Slot Statistics

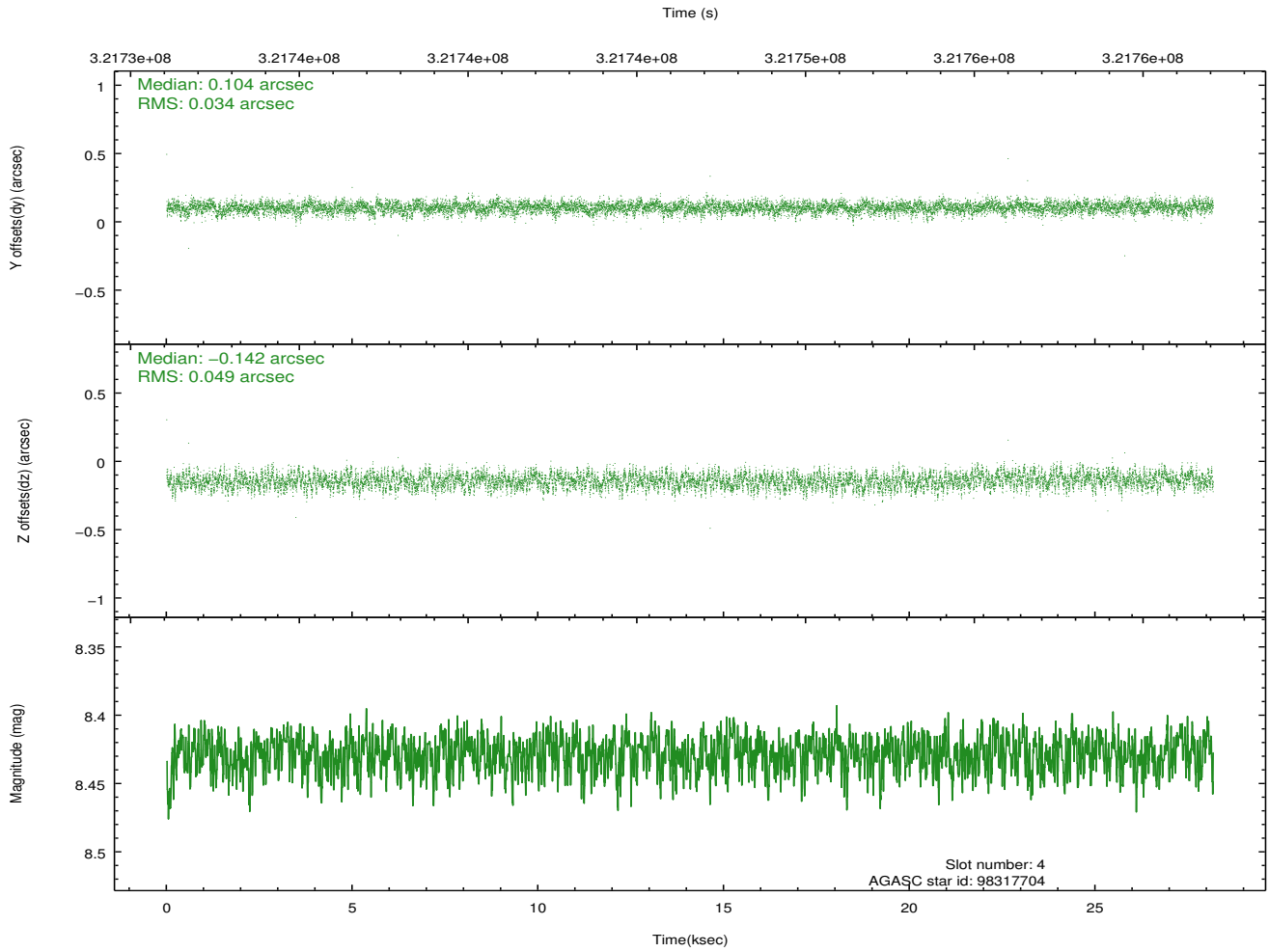
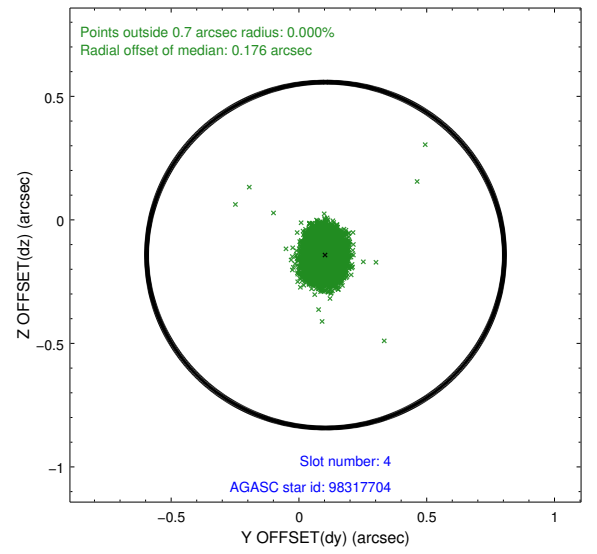
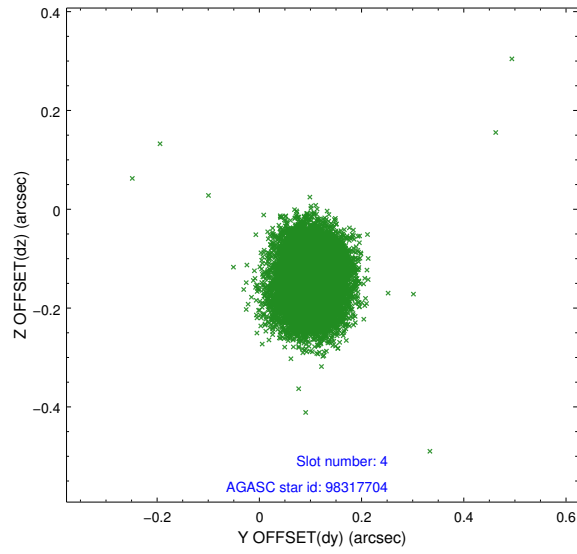
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	6872	0.037	0.014	0.011	0.024	0.000000	0.000000	928.18	-836.98
1	FID	ACIS-I-5	7.22	6872	-0.177	0.056	0.011	0.023	0.000000	0.000000	-1820.08	1060.52
2	FID	ACIS-I-6	7.24	6871	0.049	0.000	0.008	0.013	0.000000	0.000000	393.66	1705.06
3	GUIDE	97793672	8.57	13743	-0.010	-0.138	0.067	0.108	99.657664	9.160198	1272.10	-2245.17
4	GUIDE	98317704	8.43	13737	0.104	-0.142	0.063	0.102	99.789996	9.529558	-55.16	-1769.11
5	GUIDE	98317968	8.35	13735	-0.217	0.046	0.060	0.098	100.431114	10.034480	-1864.97	512.46
6	GUIDE	97784296	8.92	13731	0.265	0.149	0.090	0.142	100.681483	8.855229	2382.72	1391.76
7	GUIDE	98315960	8.73	13671	-0.140	0.087	0.068	0.114	100.661368	10.107192	-2124.64	1329.46

## 2.4 Star Slots

### 2.4.1 Slot 3

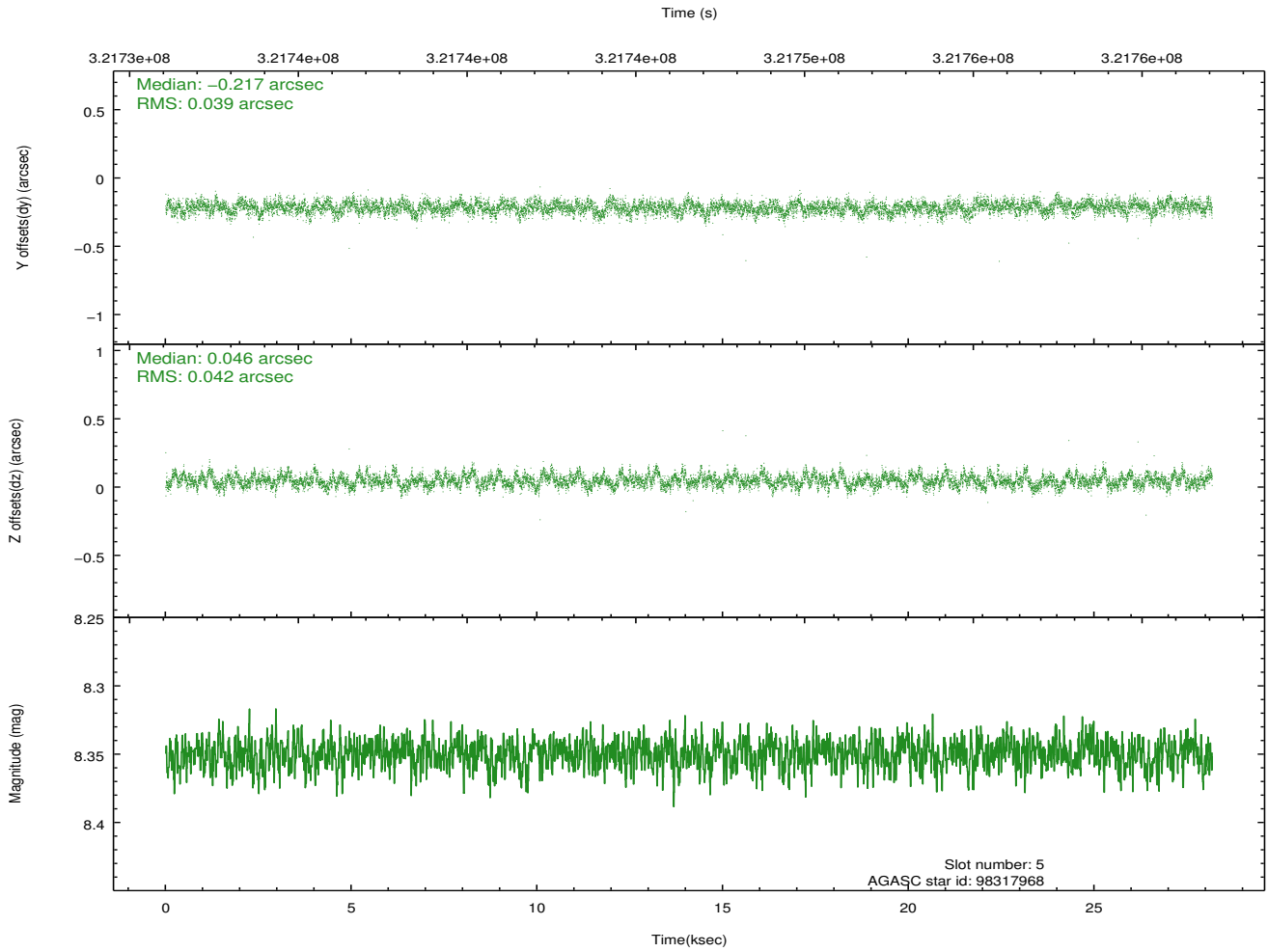
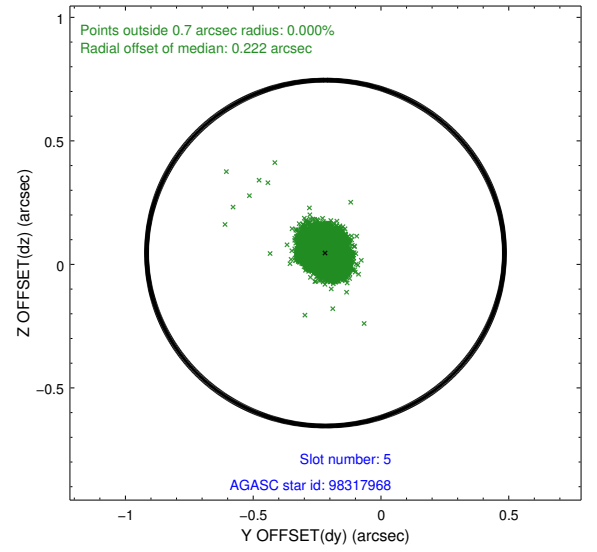
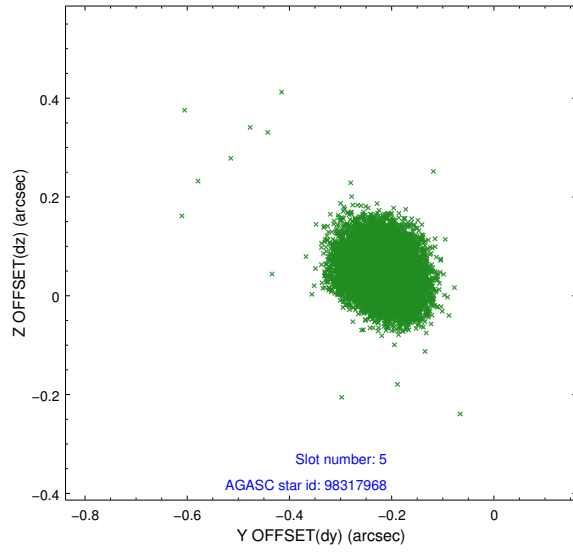


## 2.4.2 Slot 4

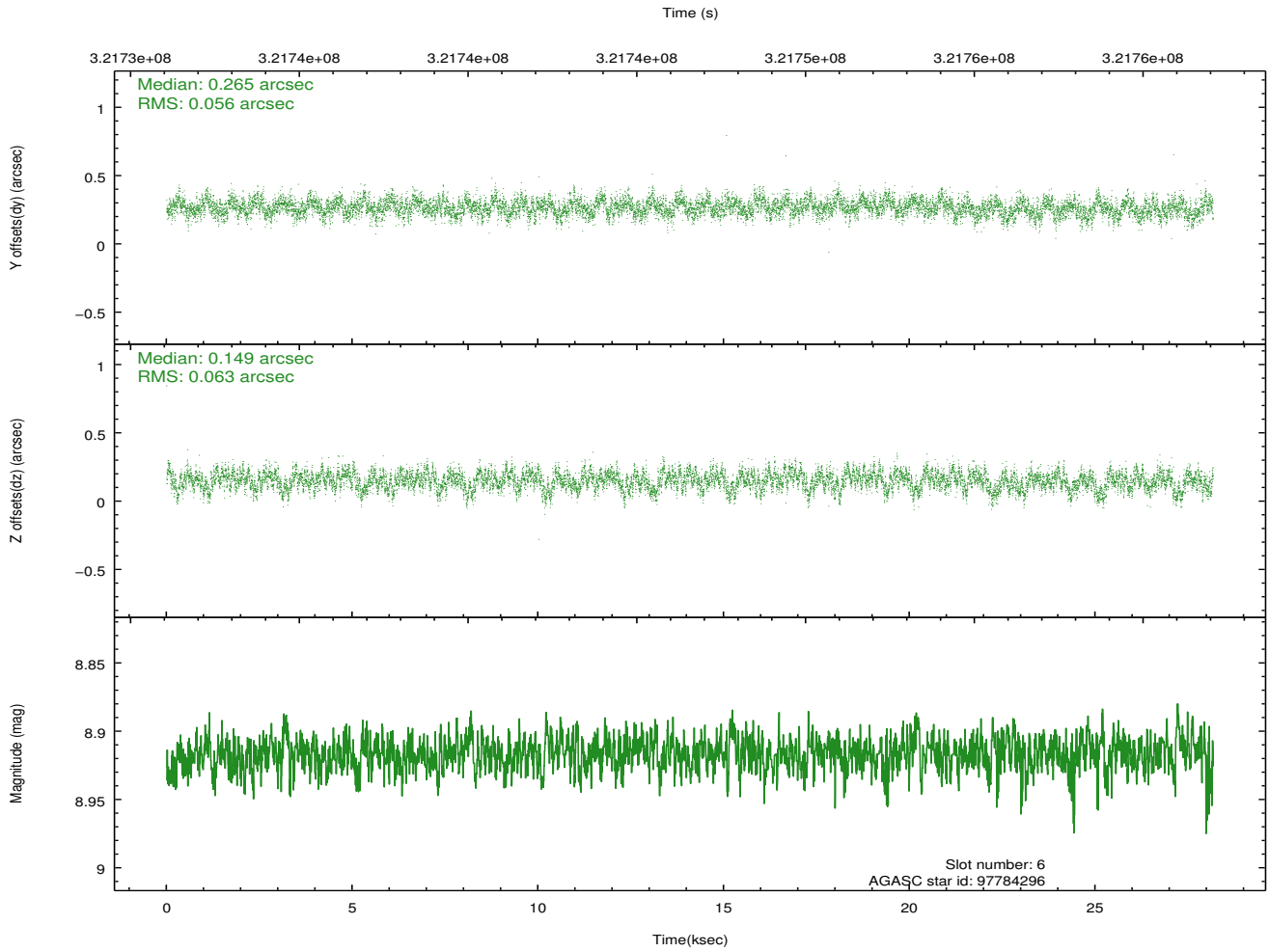
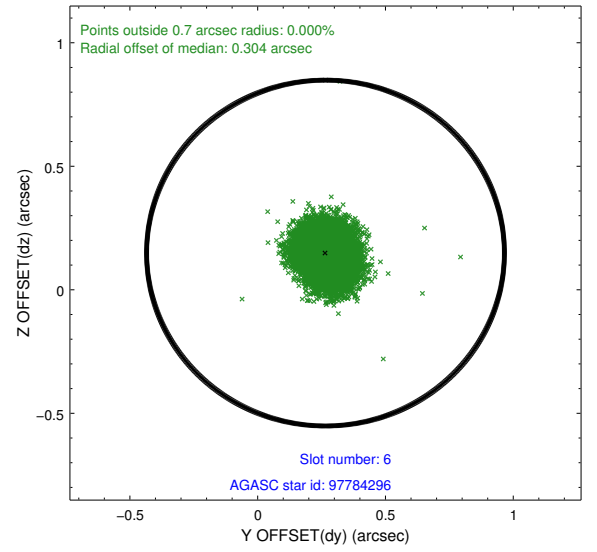
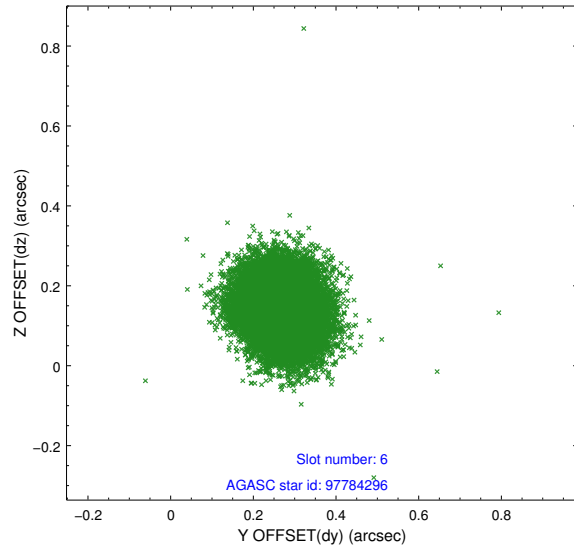




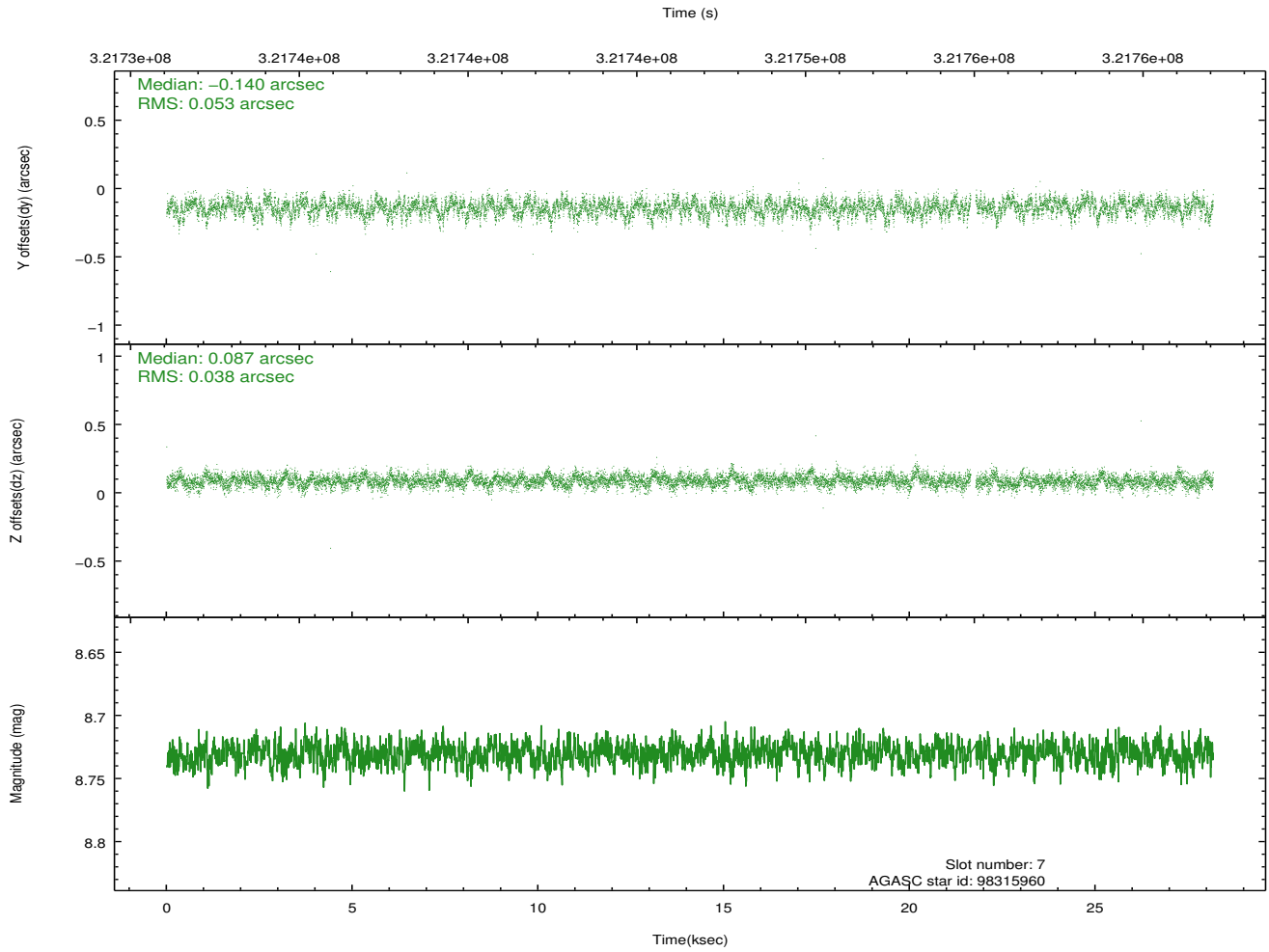
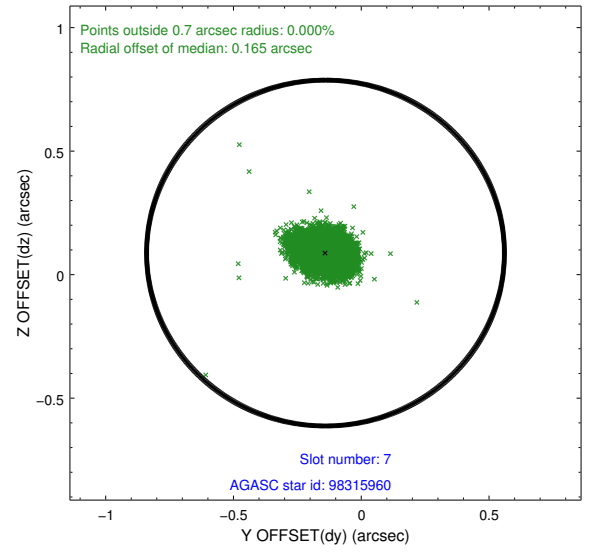
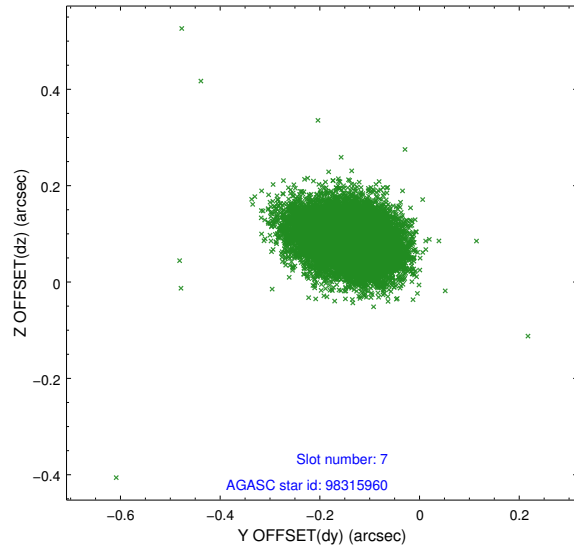
### 2.4.3 Slot 5



## 2.4.4 Slot 6

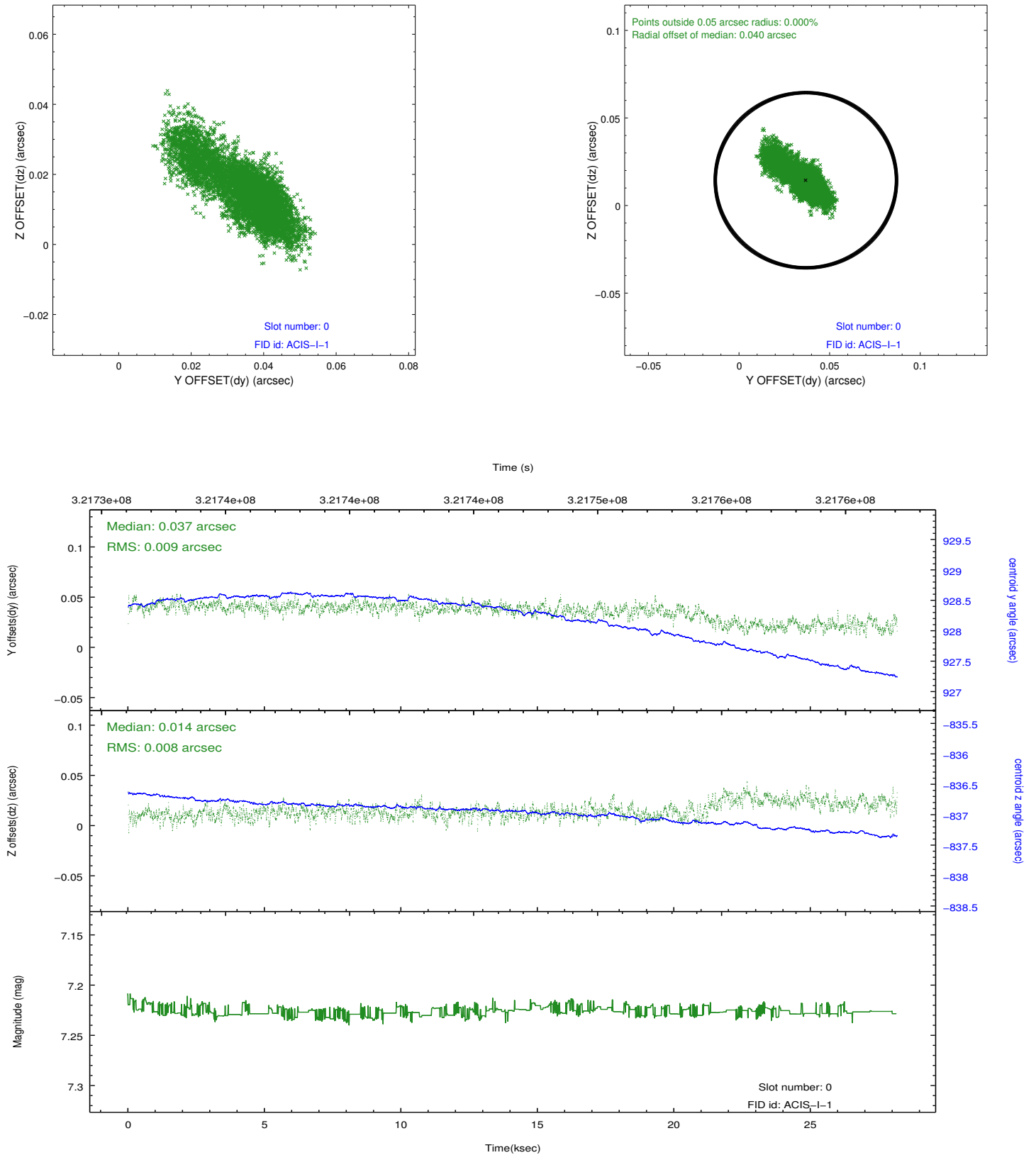


## 2.4.5 Slot 7

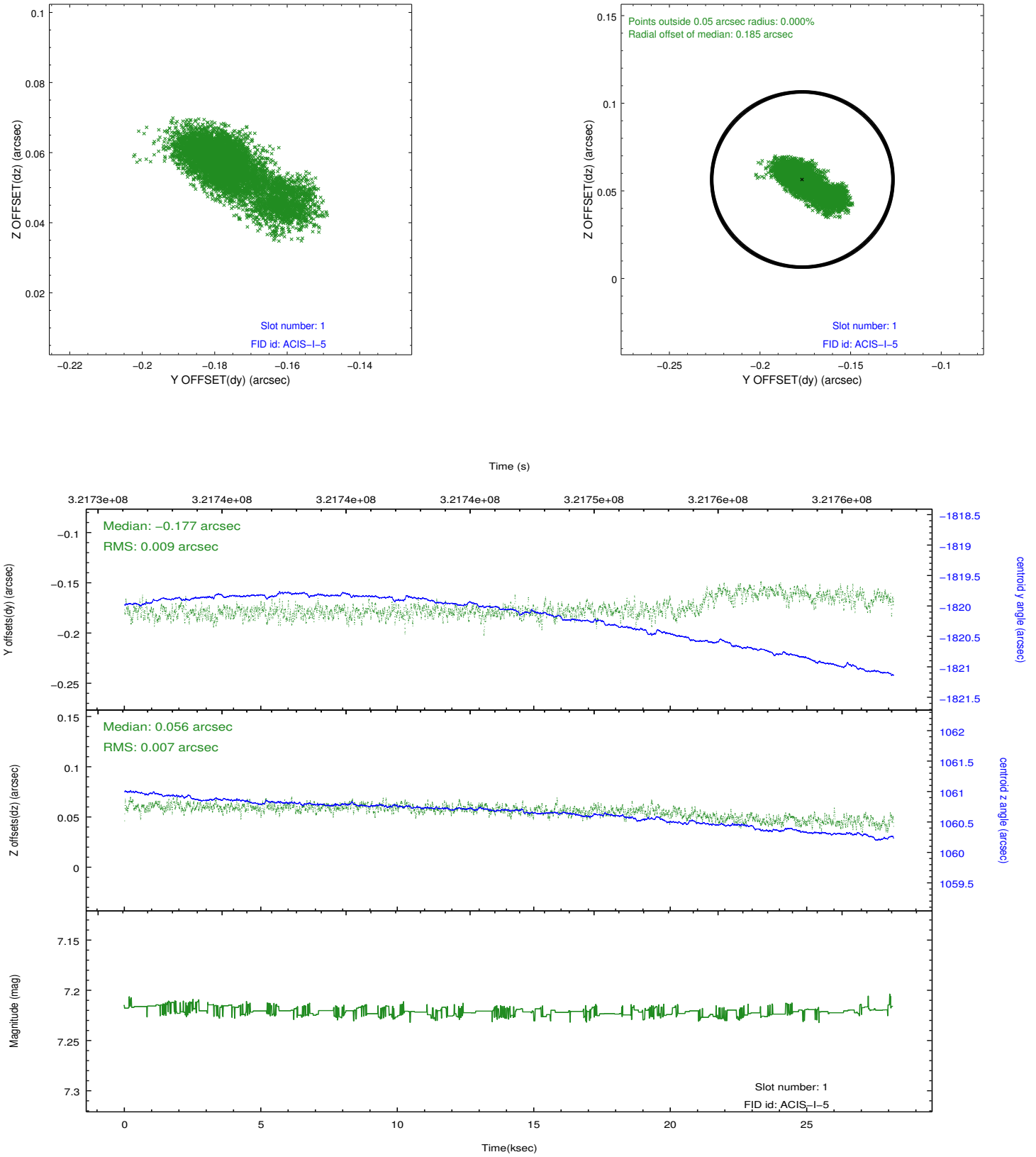


## 2.5 FID Slots

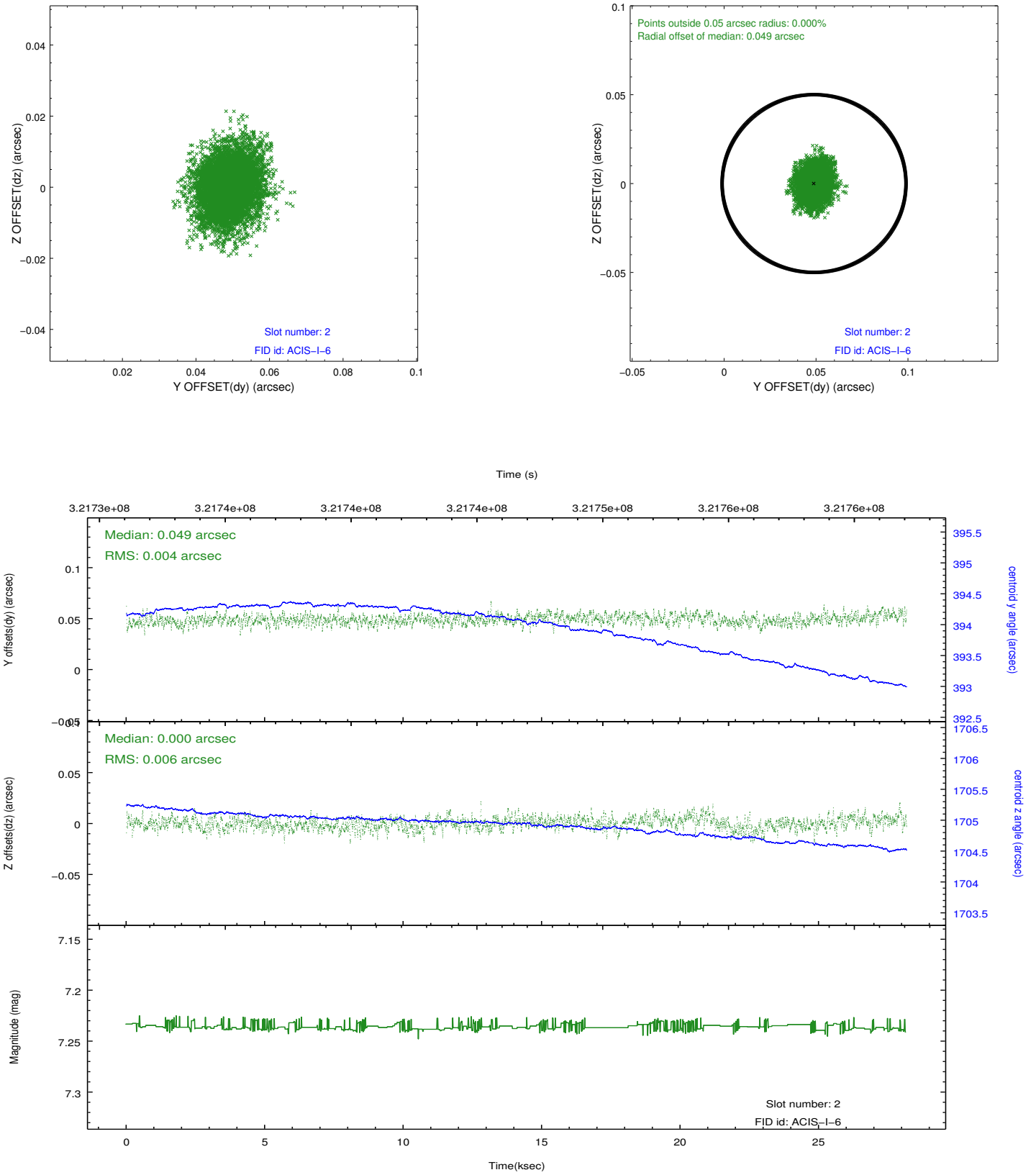
### 2.5.1 Slot 0



## 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)	2012.05.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.1542002

### A.2 Comments

Window constraint met.