

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7713 - L2 Version 2  
Chandra X-Ray Center

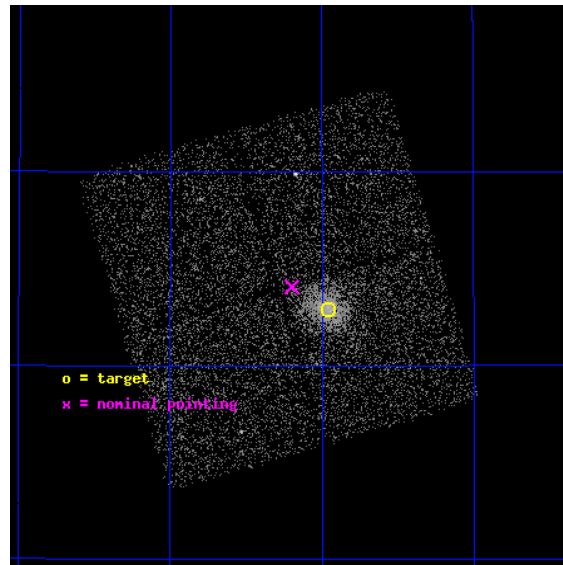
L2 Processing Date : May 8 2012

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# 1 Front

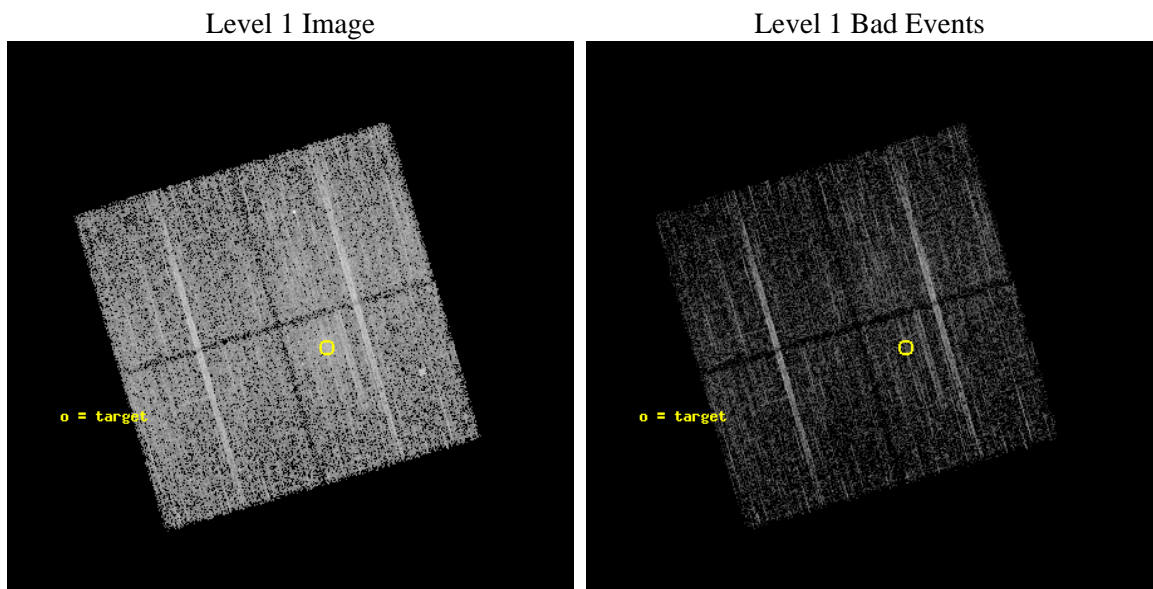
seq_num	701381	Sequence number
obs_id	7713	Observation id
title	Snapshot Survey for X-ray Outbursts in Rich Clusters of Galaxies	P
observer	Professor Gordon Garmire	Principal investigator
object	ABELL1995	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	223.239583	Observer's specified target RA [deg]
dec_targ	58.048667	Observer's specified target Dec [deg]
ra_nom	223.29985665731	Nominal RA [deg]
dec_nom	58.068080594213	Nominal Dec [deg]
roll_nom	73.59702772719	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7173.4000551701	Sum of GTIs [s]
livetime	7079.674302469	Livetime [s]
ontime0	7170.2590848207	Sum of GTIs [s]
ontime1	7170.2590948343	Sum of GTIs [s]
ontime2	7170.2590848207	Sum of GTIs [s]
ontime3	7173.4000551701	Sum of GTIs [s]
l2events	16072	Number of level 2 events



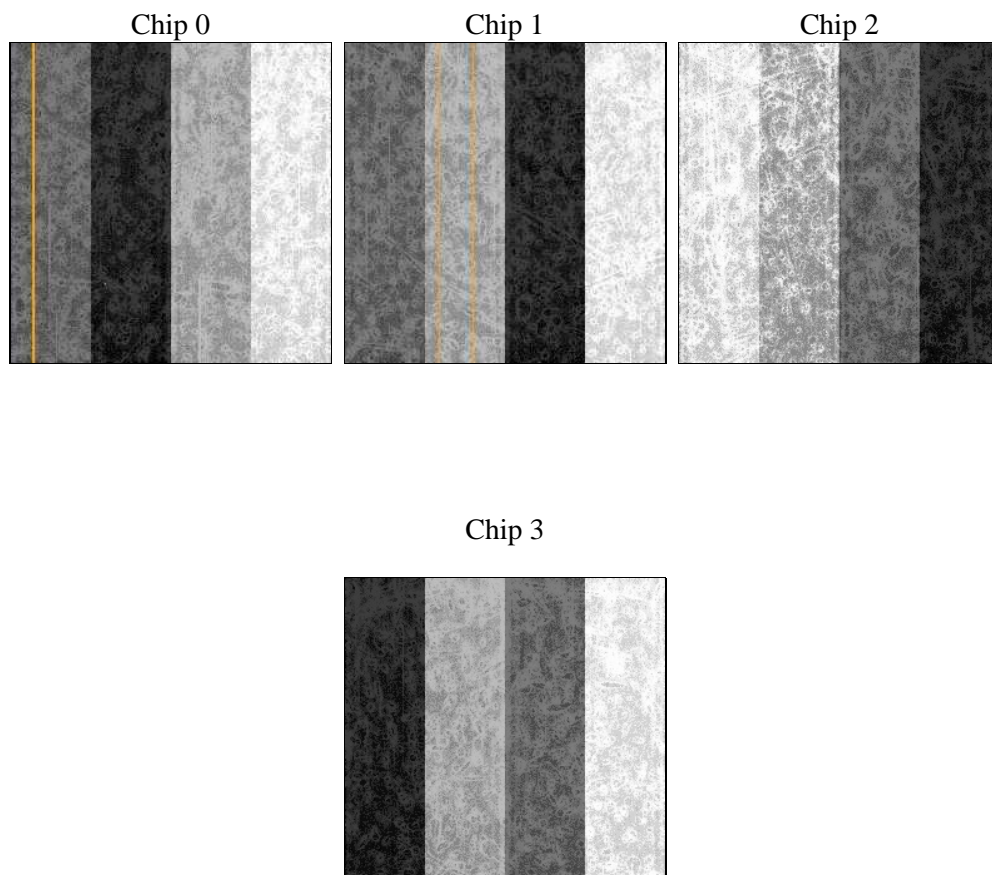
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	7173.4000551701	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	7170.2590848207	Sum of GTIs [s]
date	2012-05-08T14:37:10	Date and time of file creation	ontime1	7170.2590948343	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	7170.2590848207	Sum of GTIs [s]
			ontime3	7173.4000551701	Sum of GTIs [s]
			l1events	192280	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	44674	43966	53656	49984
rejected events	40454	39378	49095	43196
rejected %	90%	89%	91%	86%

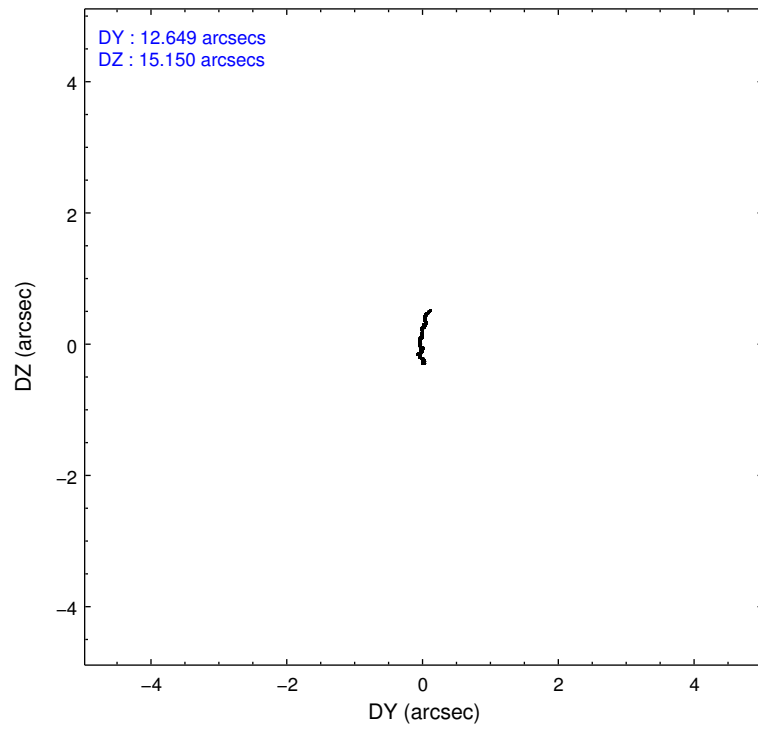
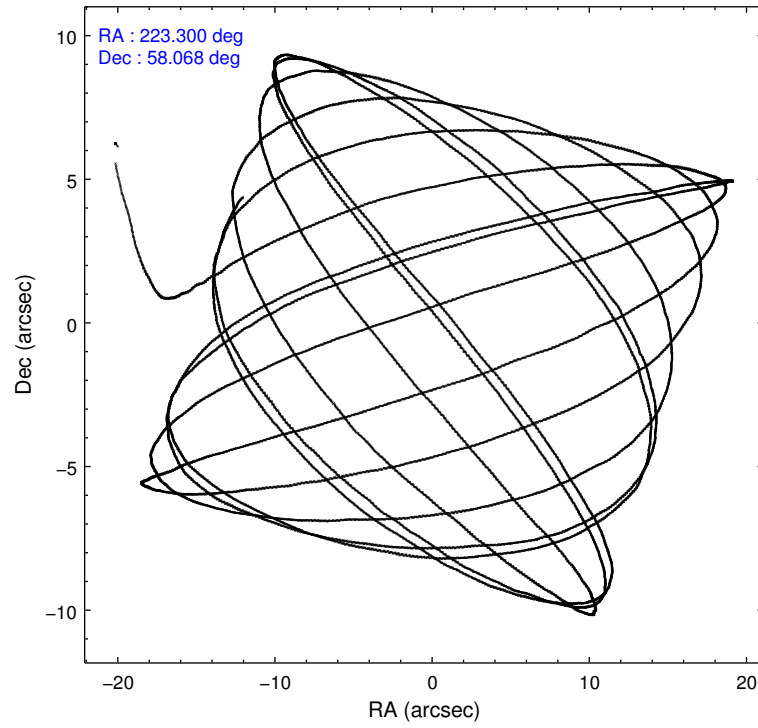
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1706	1825	2039	3716
	3%	4%	3%	7%
grade 1 events	31	24	28	39
	0%	0%	0%	0%
grade 2 events	1073	977	1085	1071
	2%	2%	2%	2%
grade 3 events	473	580	392	539
	1%	1%	0%	1%
grade 4 events	454	529	478	845
	1%	1%	0%	1%
grade 5 events	849	978	786	1012
	1%	2%	1%	2%
grade 6 events	590	737	640	724
	1%	1%	1%	1%
grade 7 events	39498	38316	48208	42038
	88%	87%	89%	84%

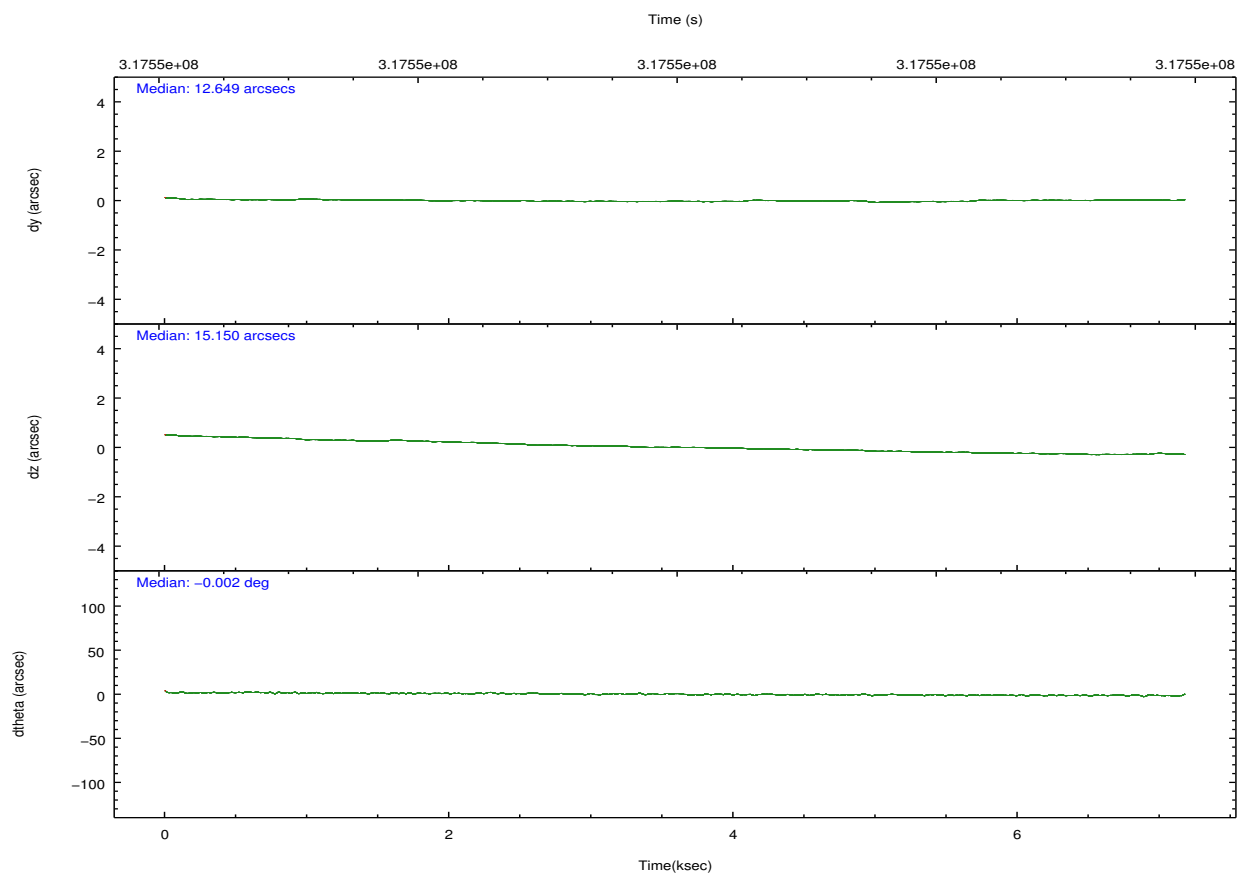
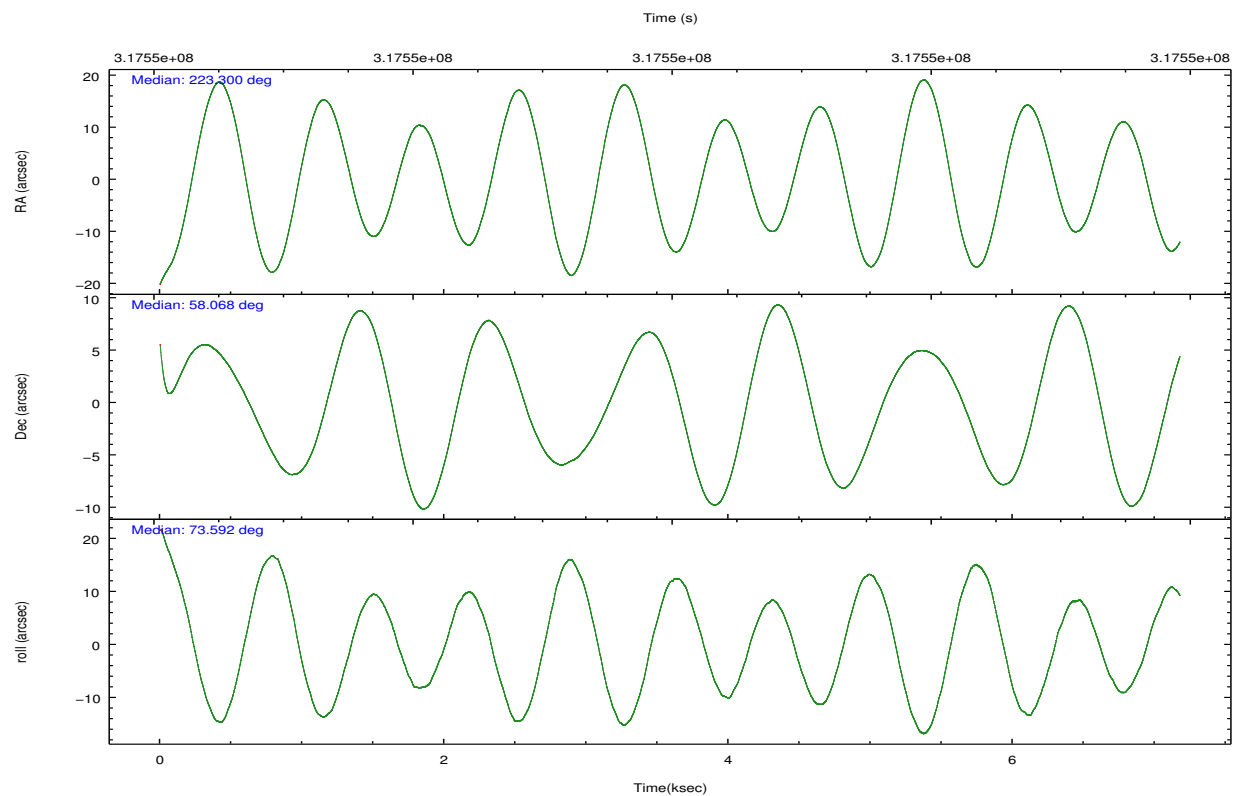


## 2.2 Compared Parameters

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	223.312368	223.2998566573149	Subarray requested	NONE	NONE
[deg] Pointing Dec	58.041366	58.06808059421252	Alternating exposures requested	N	N
[deg] Pointing Roll	73.377716	73.59702772719022	[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)	317546583.184000	317545603.47539			
Observation start date	2008-01-24T07:21:58	2008-01-24T07:06:43			
[s] Observation end time (MET)	317553583.184000	317554467.16332			
Observation end date	2008-01-24T09:18:38	2008-01-24T09:34:27			
Read mode	TIMED	TIMED			

## 2.3 Aspect



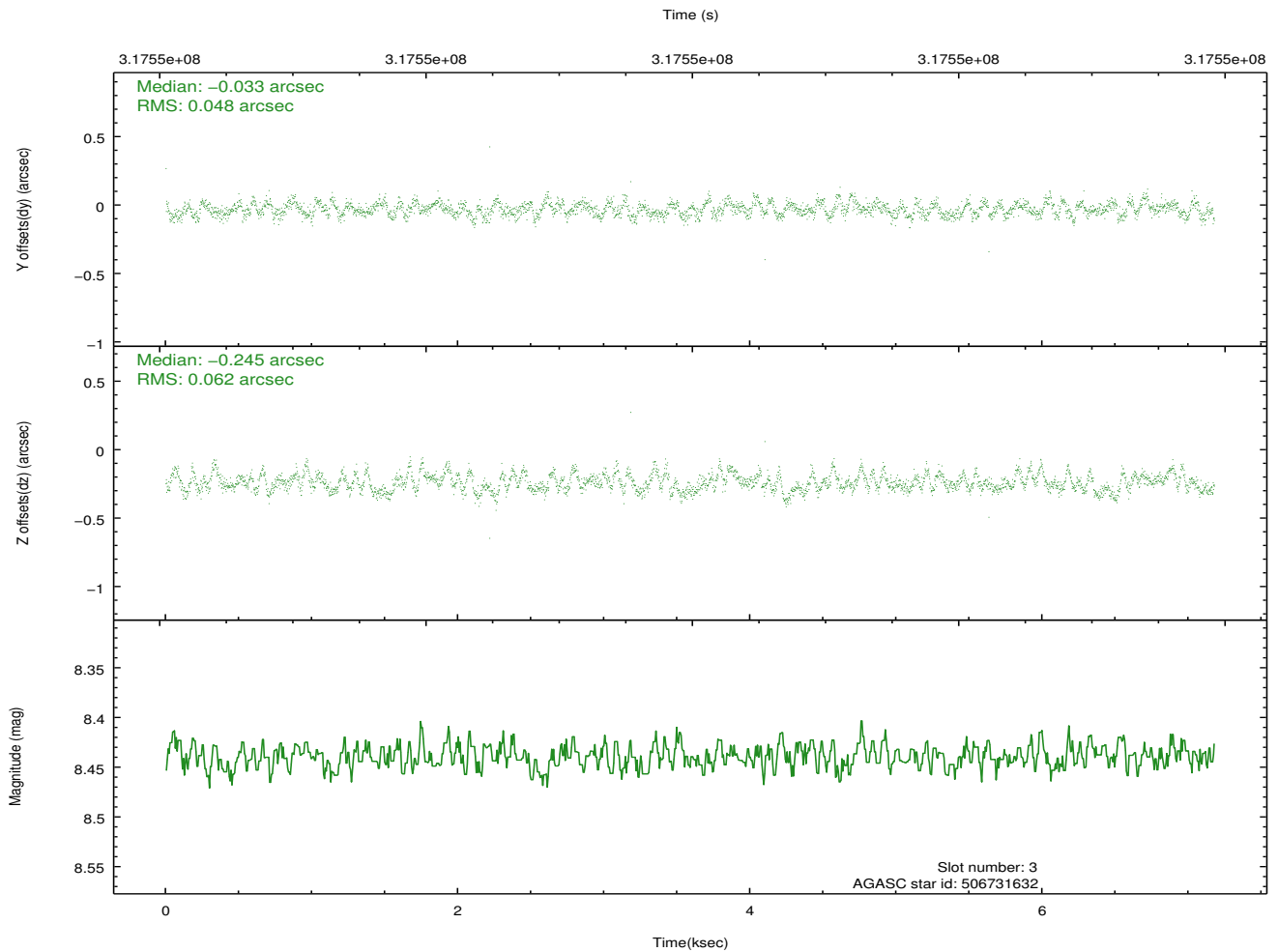
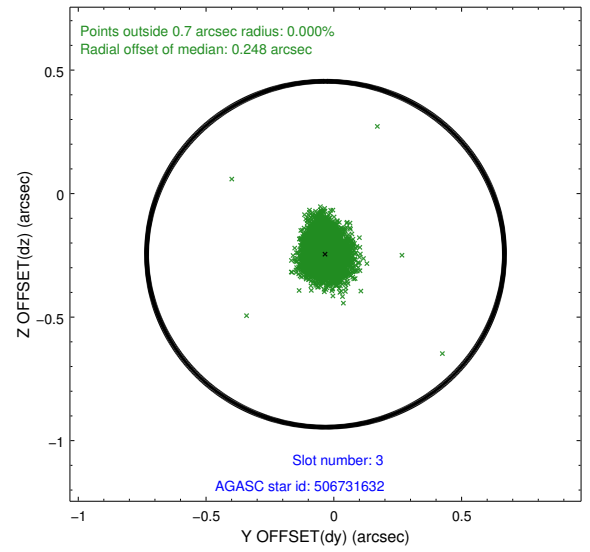
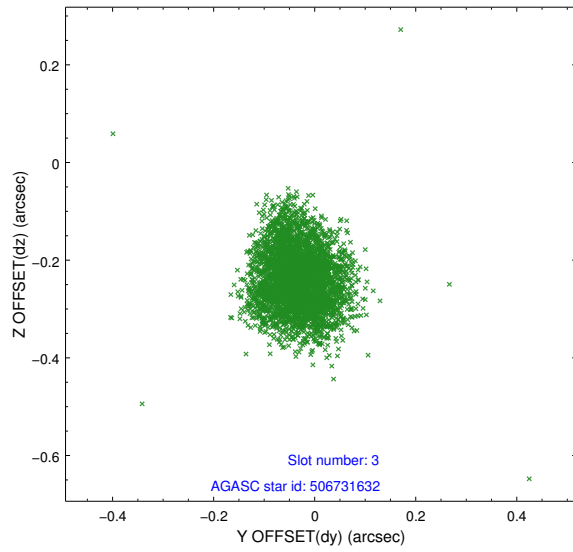


### Slot Statistics

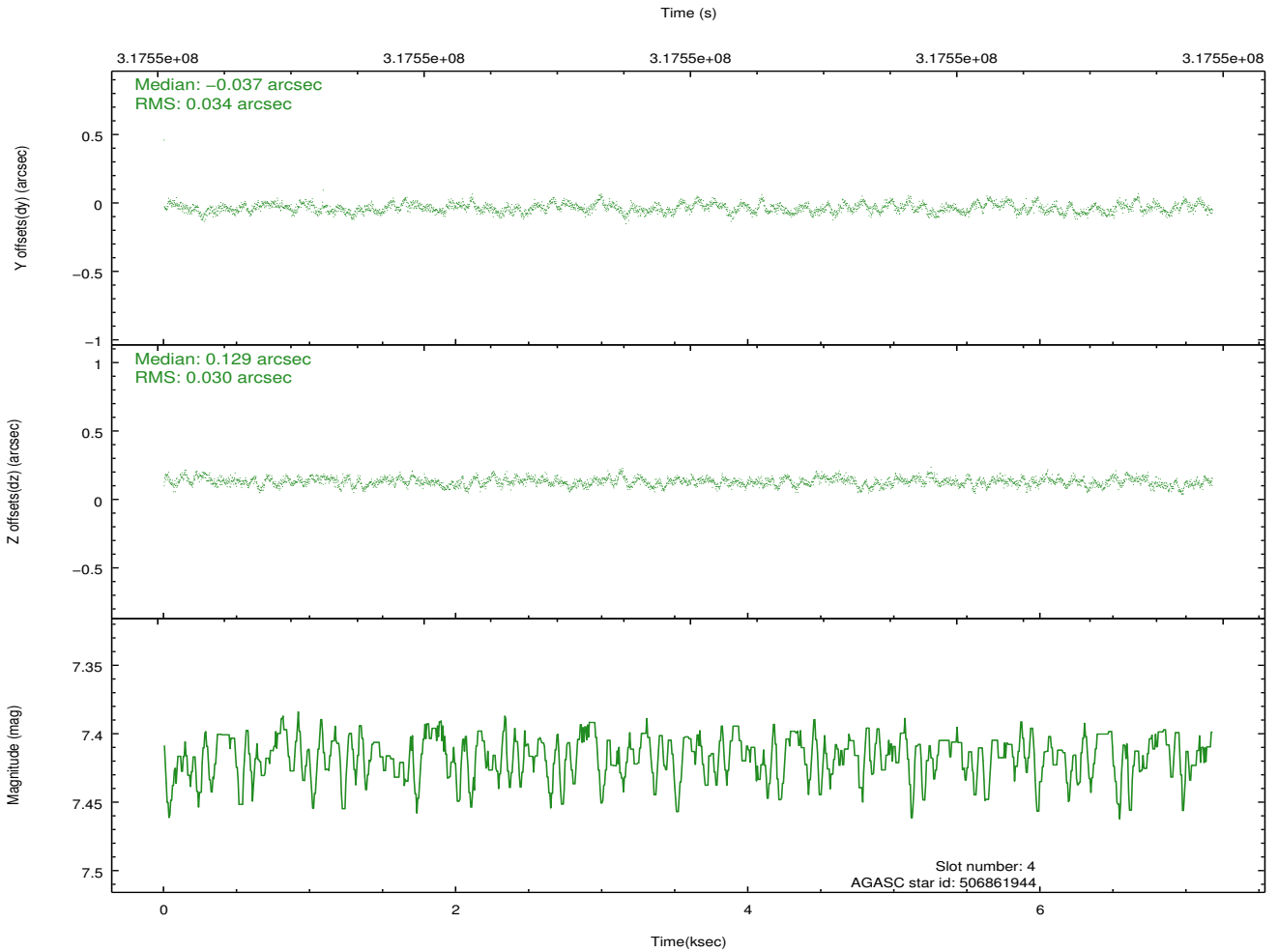
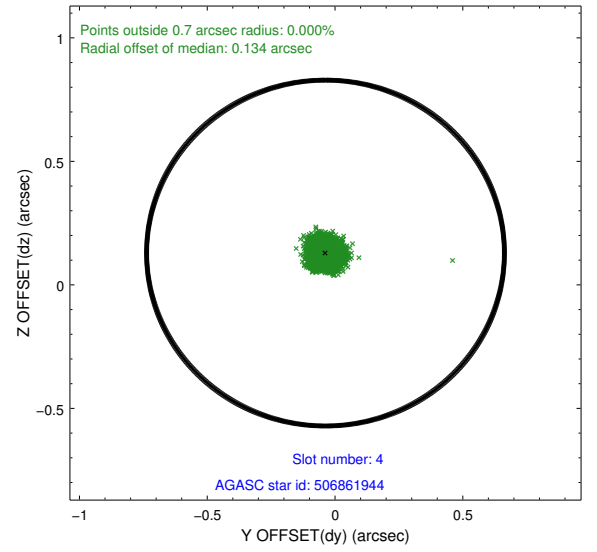
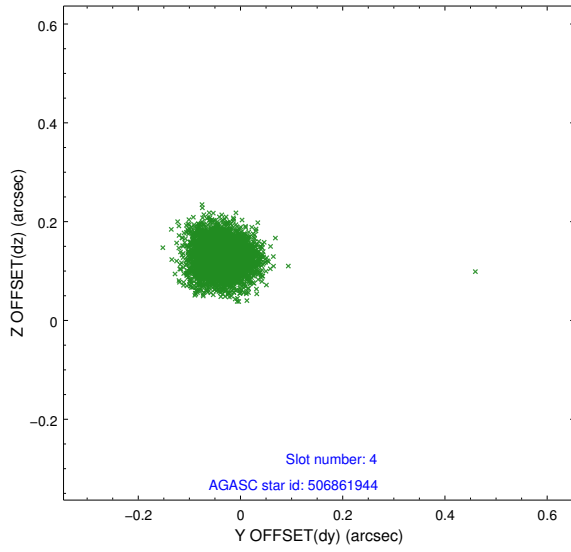
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	1751	0.033	-0.020	0.013	0.024	0.000000	0.000000	926.91	-838.81
1	FID	ACIS-I-5	7.22	1751	-0.196	0.038	0.007	0.012	0.000000	0.000000	-1820.98	1058.34
2	FID	ACIS-I-6	7.23	1751	0.072	0.053	0.010	0.018	0.000000	0.000000	391.62	1703.76
3	GUIDE	506731632	8.44	3500	-0.033	-0.245	0.082	0.131	222.088013	58.057364	-591.69	2256.46
4	GUIDE	506861944	7.42	3501	-0.037	0.129	0.049	0.077	224.335957	57.649138	-774.90	-2288.41
5	GUIDE	506864456	7.93	3501	-0.064	0.074	0.054	0.088	222.497108	57.914314	-875.52	1364.74
6	GUIDE	506866648	8.93	3501	0.067	-0.041	0.085	0.138	222.617544	58.105639	-150.04	1335.01
7	GUIDE	506861776	8.71	3500	0.066	0.083	0.062	0.102	222.438135	58.830368	2266.54	2377.63

## 2.4 Star Slots

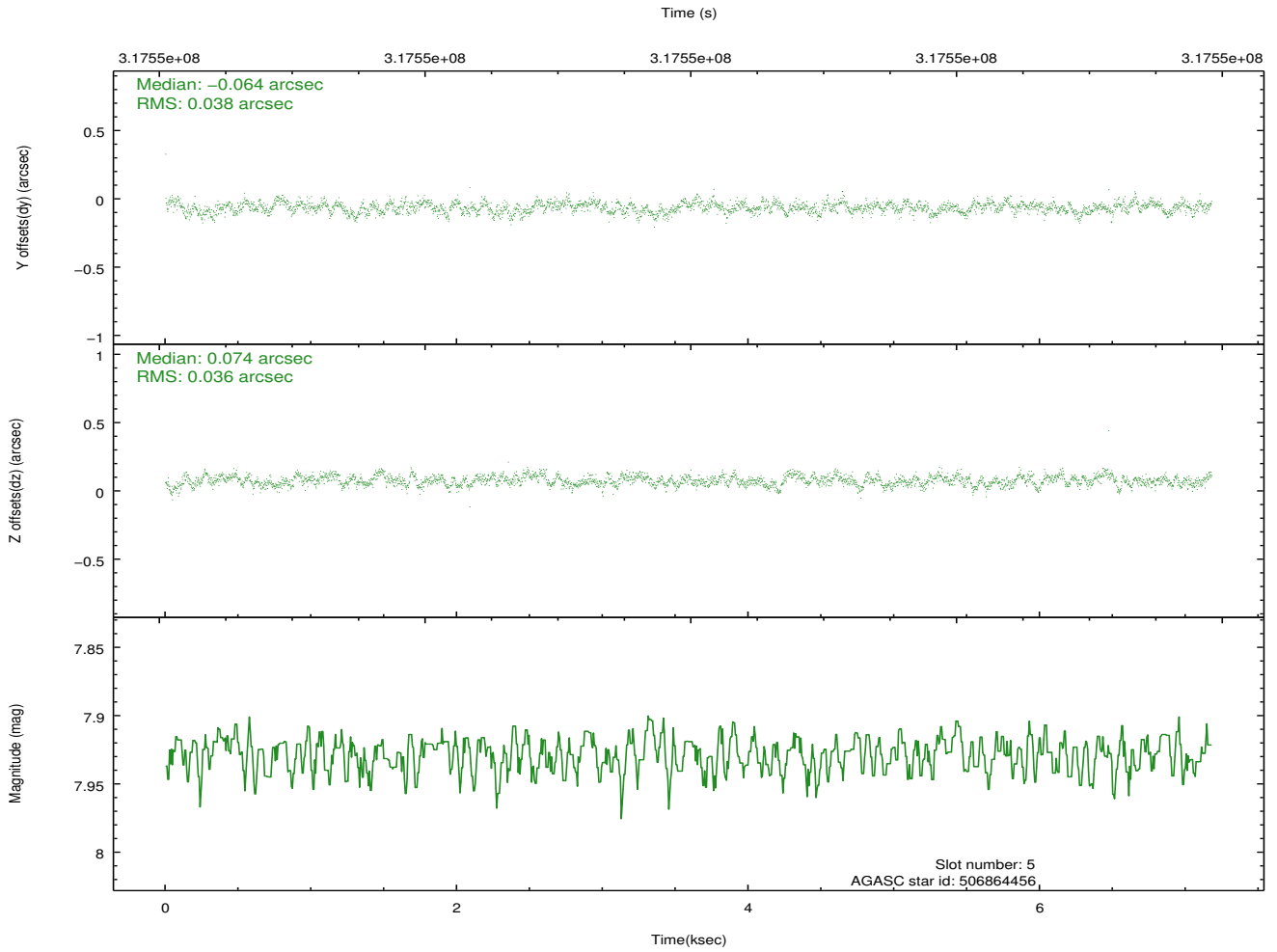
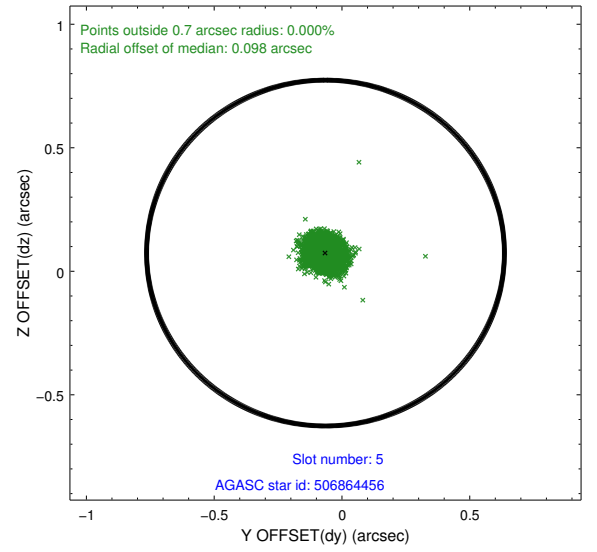
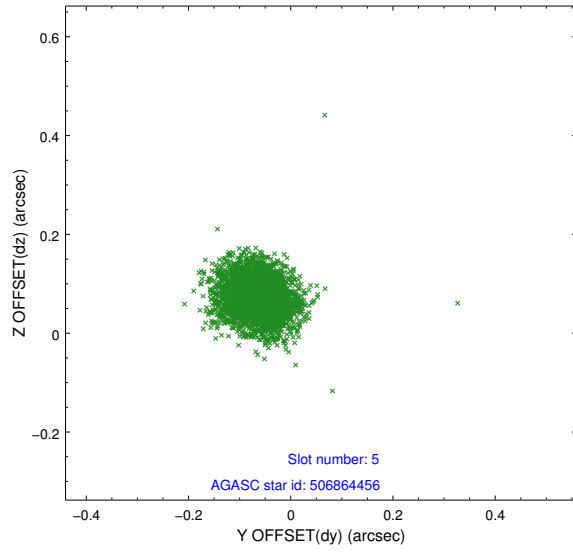
### 2.4.1 Slot 3



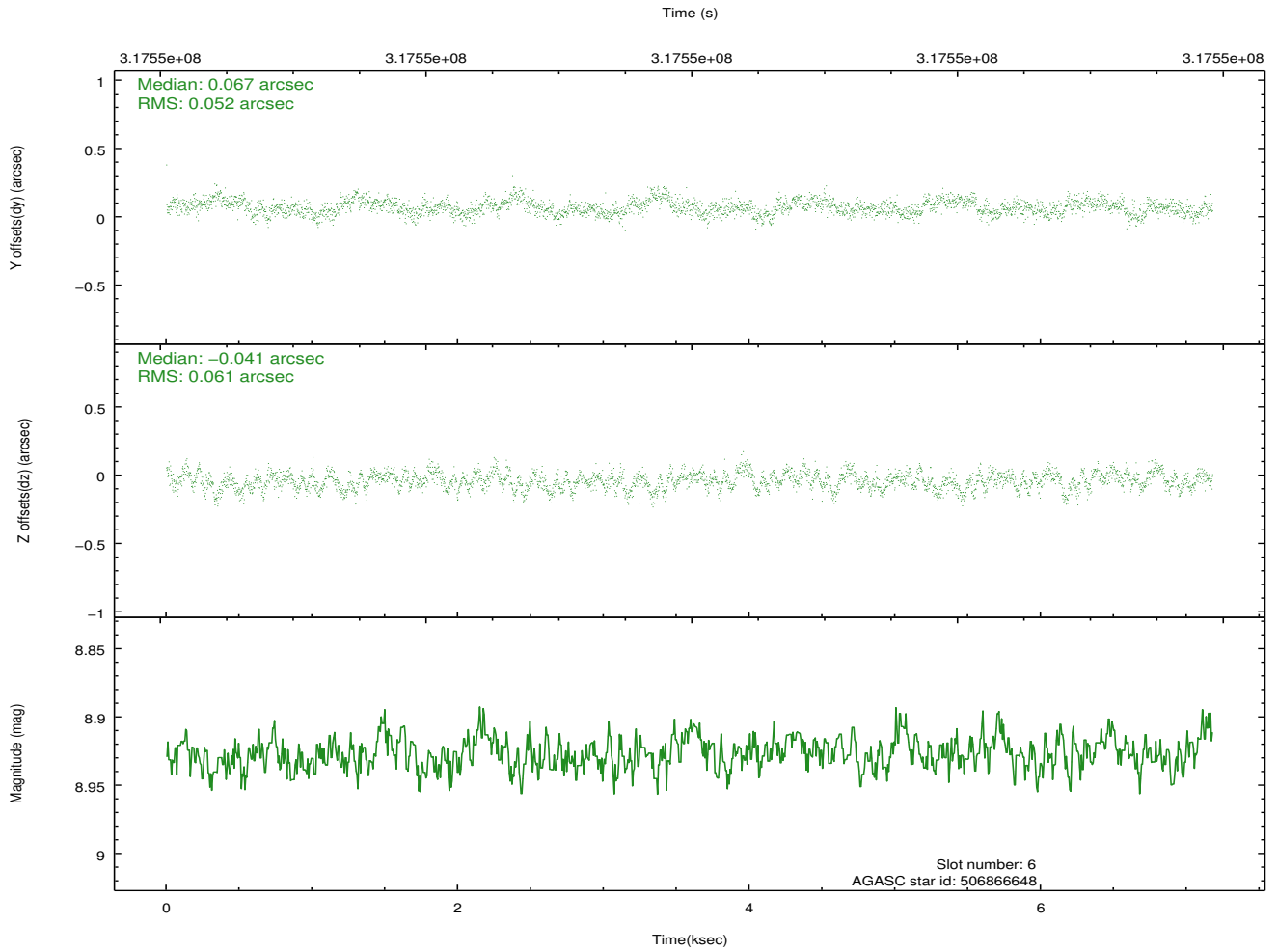
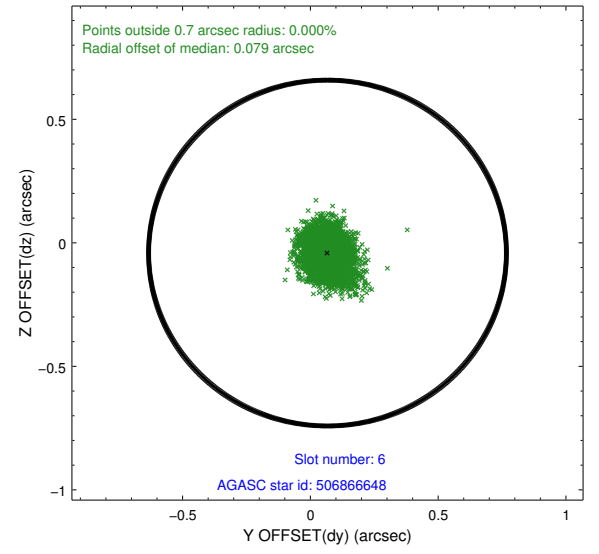
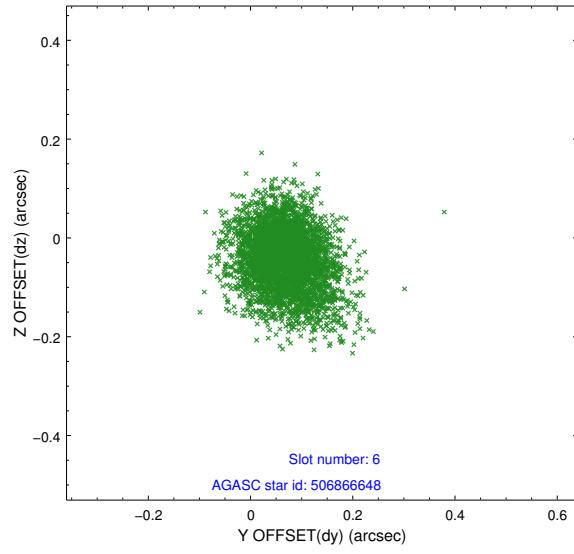
## 2.4.2 Slot 4



### 2.4.3 Slot 5

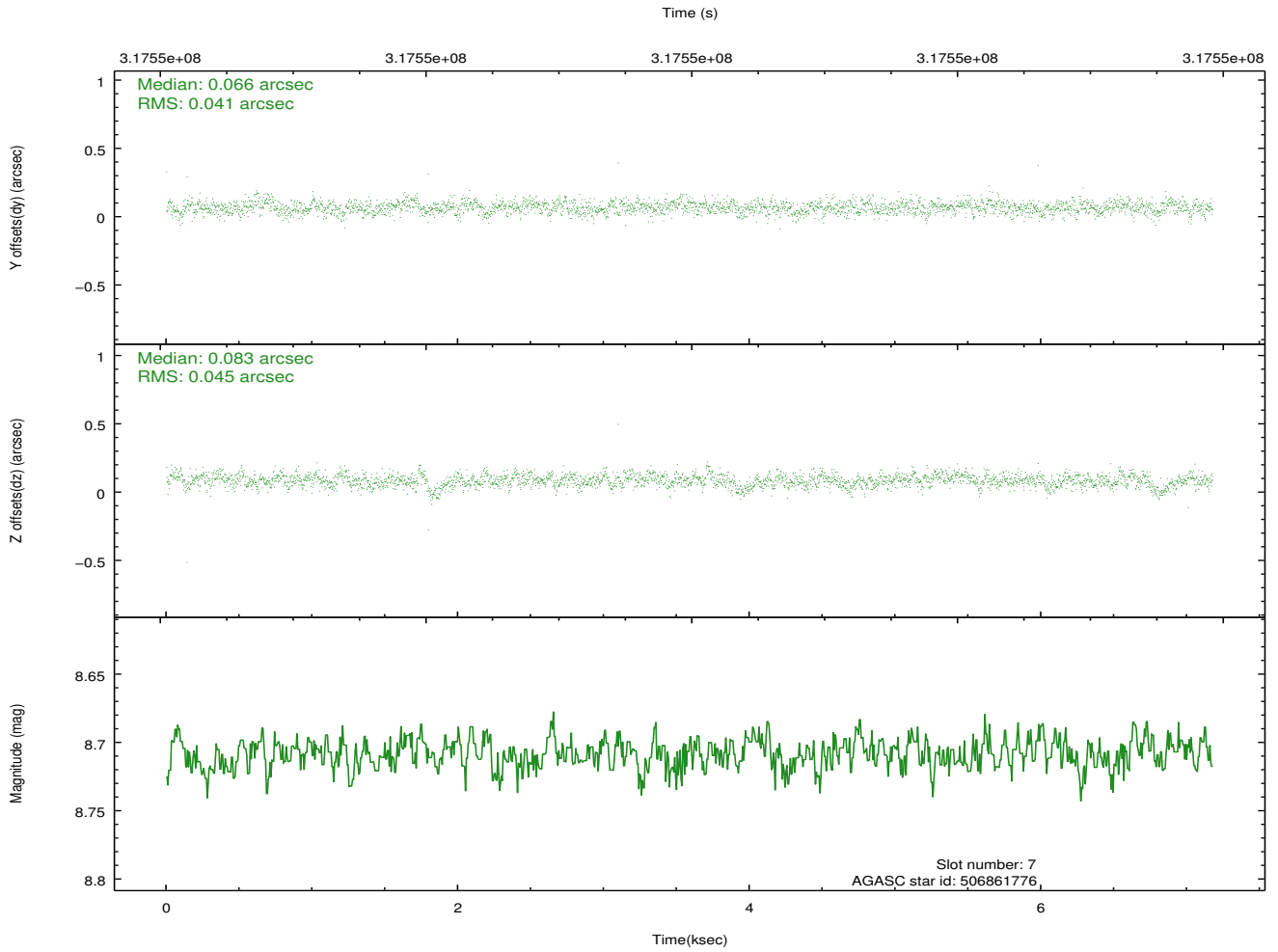
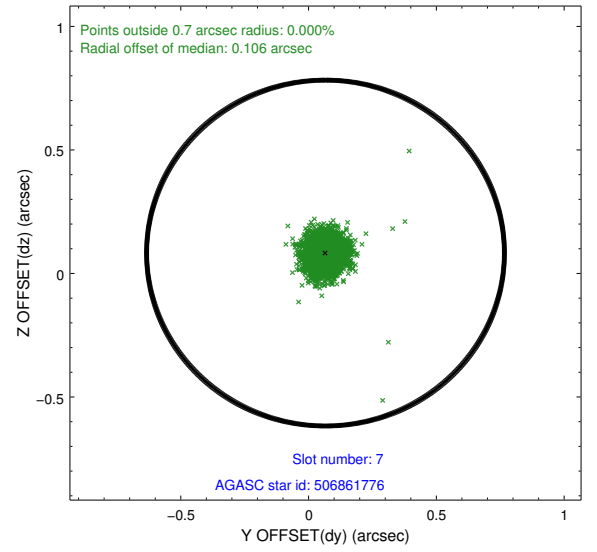
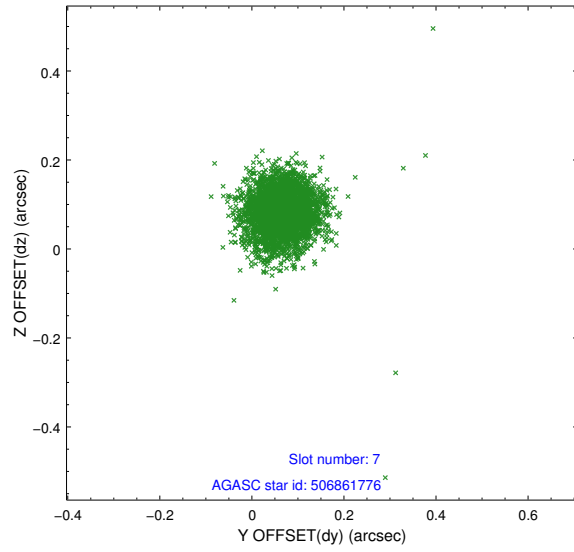


## 2.4.4 Slot 6



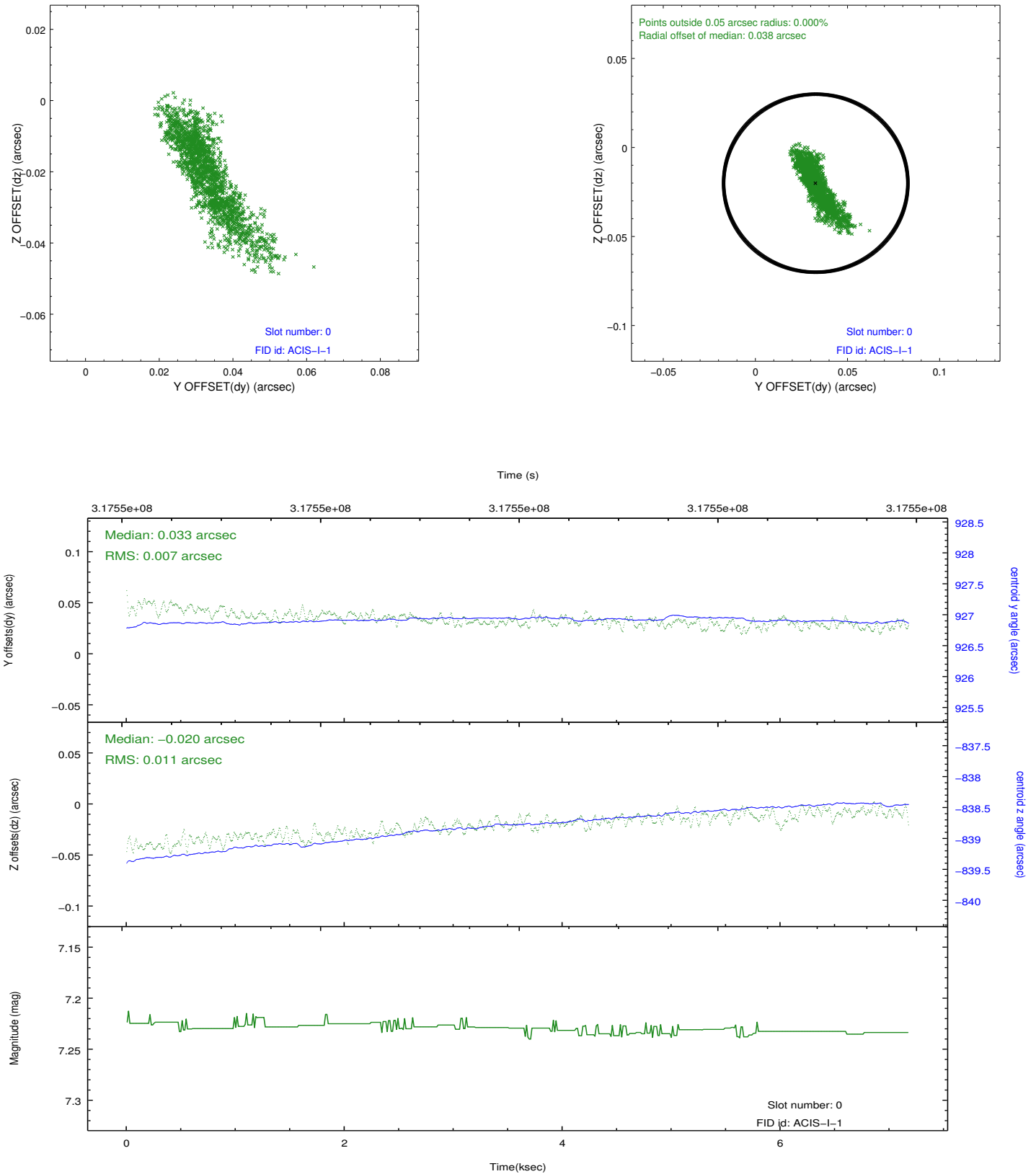


## 2.4.5 Slot 7

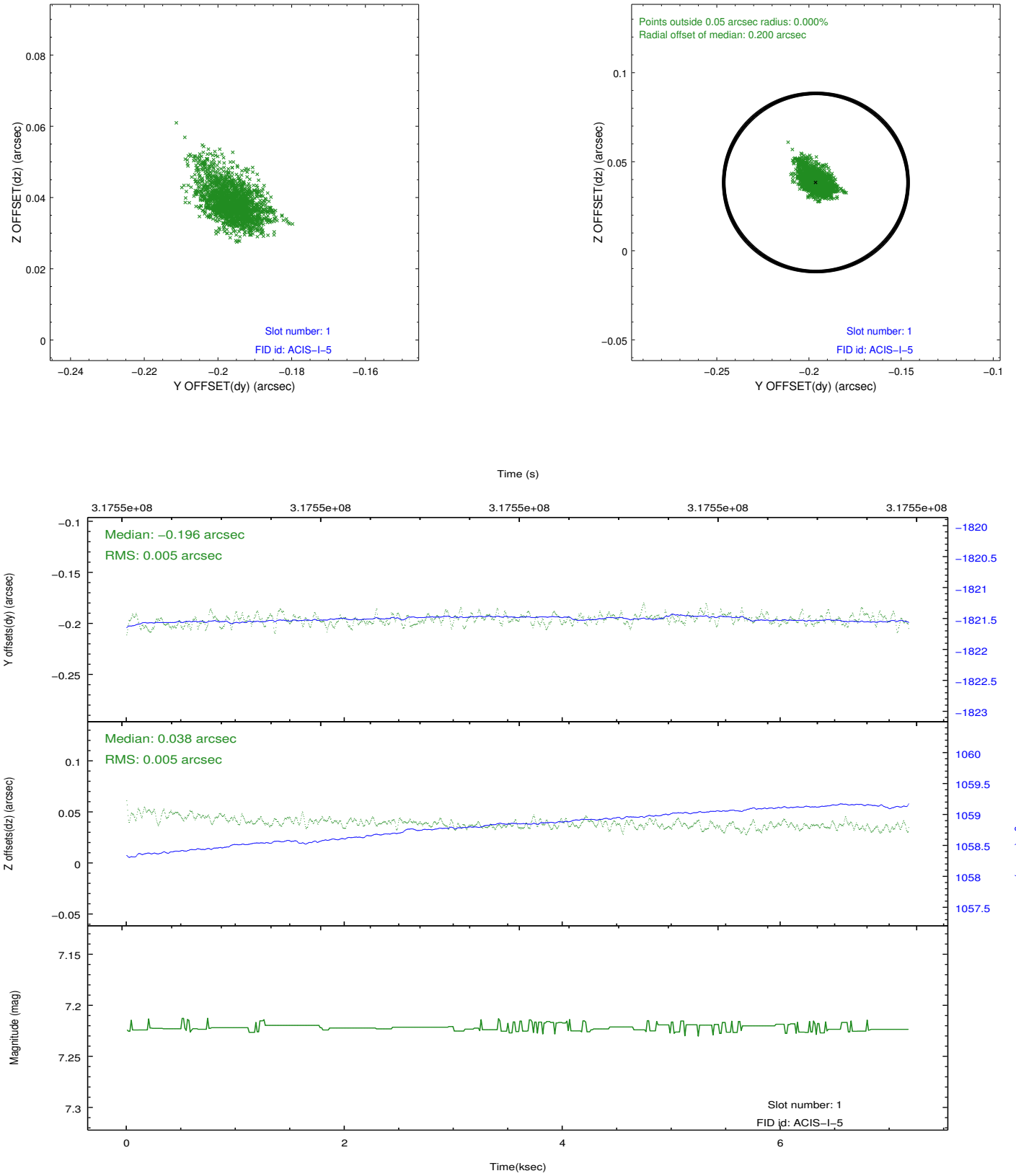


## 2.5 FID Slots

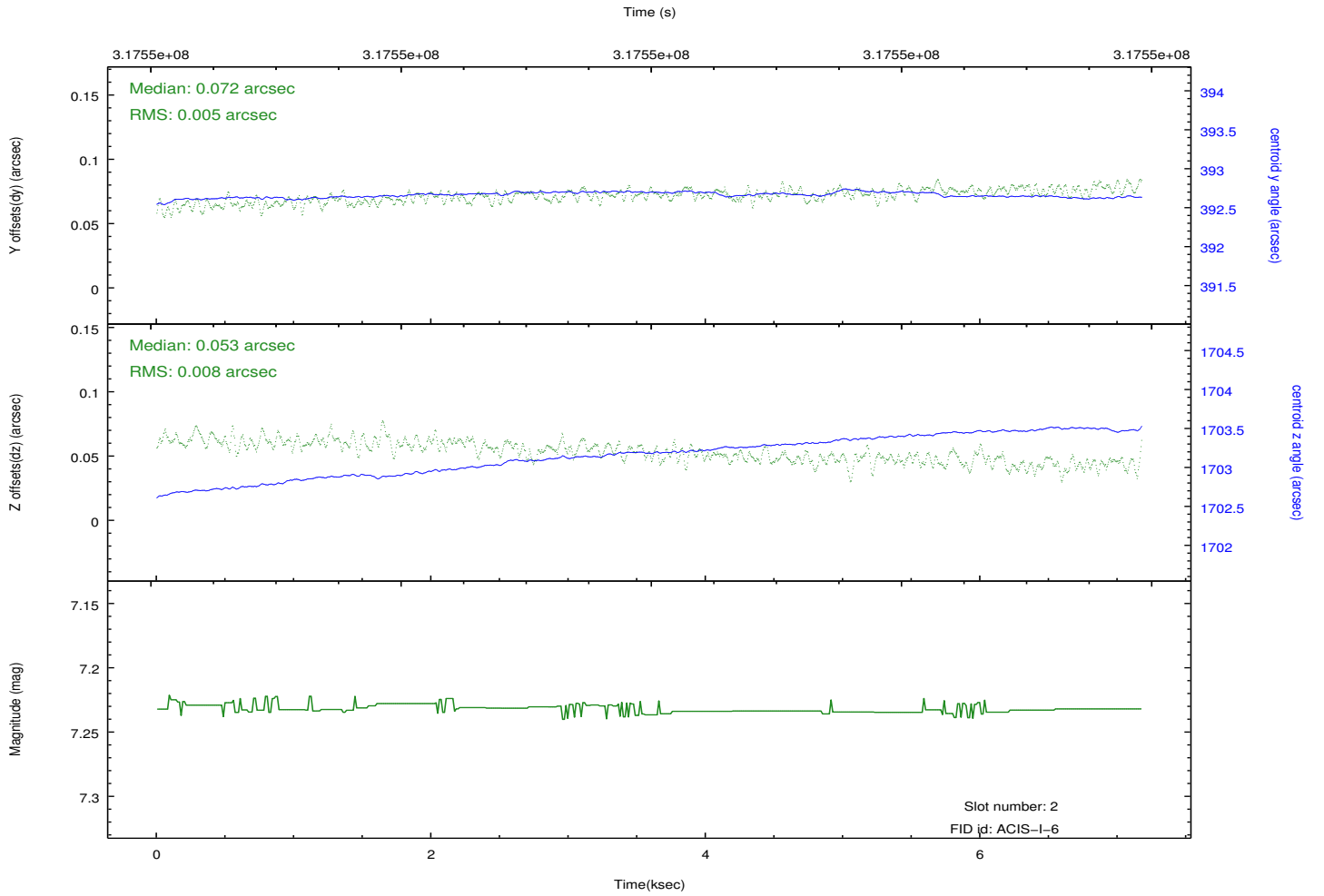
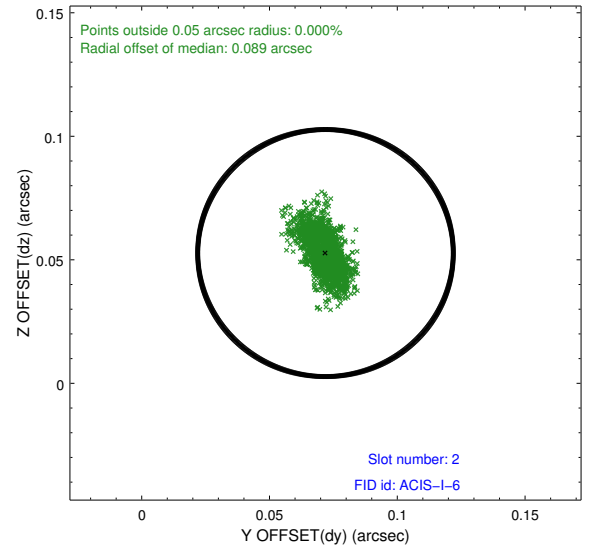
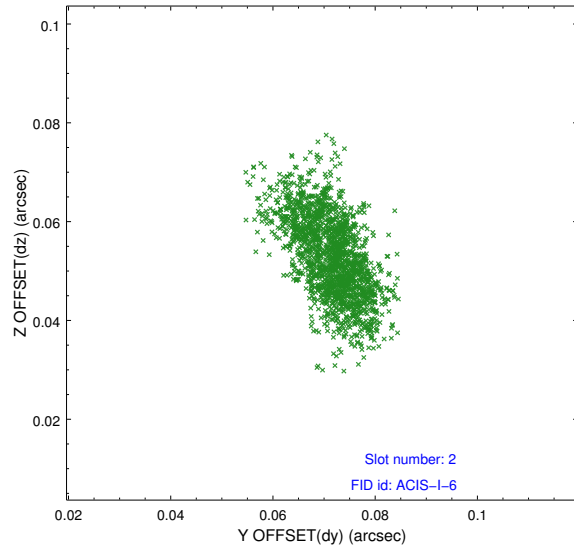
### 2.5.1 Slot 0



## 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)	2012.05.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.17340005

### A.2 Comments