

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2862 - L2 Version 4  
Chandra X-Ray Center

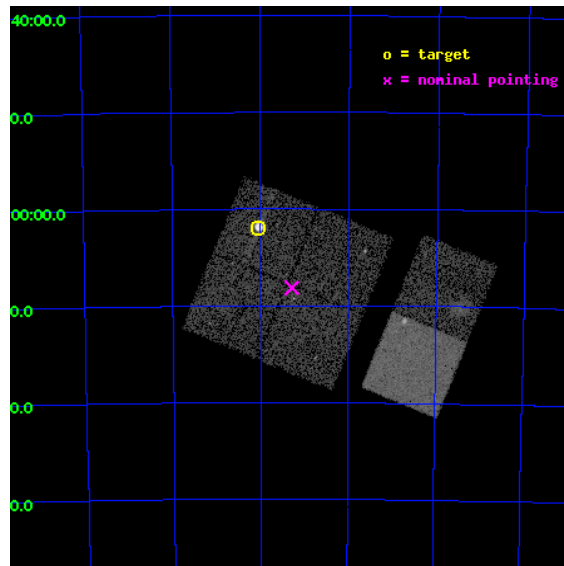
L2 Processing Date : Oct 9 2012

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# 1 Front

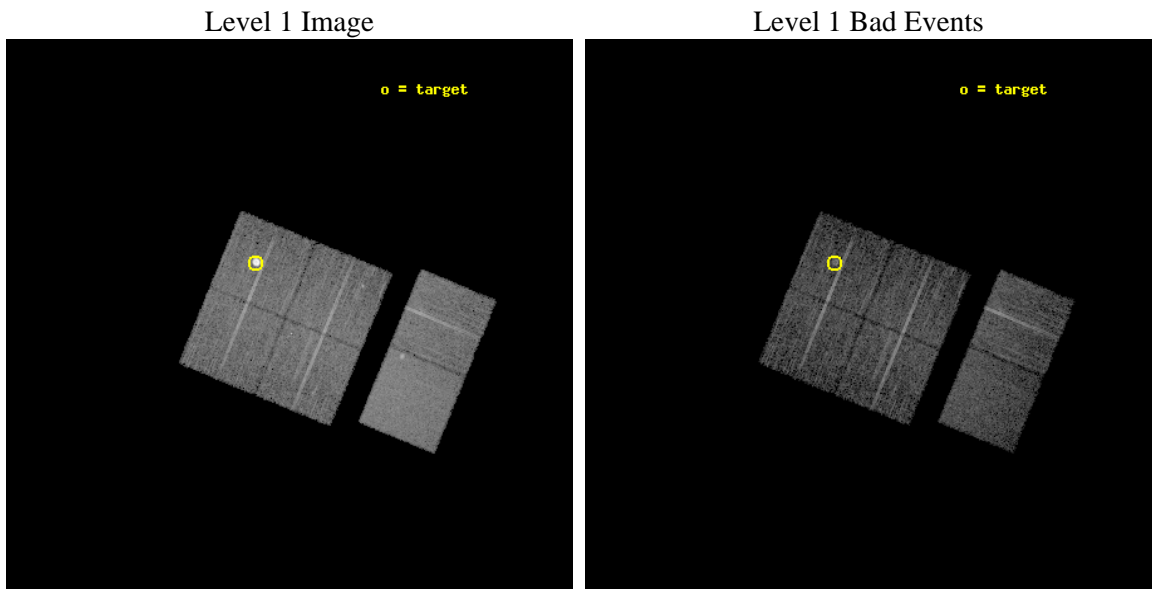
seq_num	590251	Sequence number
obs_id	2862	Observation id
title	AO3B ACIS-I CALIBRATION OBSERVATIONS OF E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72.3 [Chip I0, T=120, Offsets=4,-5,0]	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	15.822015970198	Nominal RA [deg]
dec_nom	-72.135730579208	Nominal Dec [deg]
roll_nom	112.39858964523	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7657.5999714732	Sum of GTIs [s]
livetime	7560.6348297813	Livetime [s]
ontime0	7657.5999714732	Sum of GTIs [s]
ontime1	7657.5999714732	Sum of GTIs [s]
ontime2	7657.5999714732	Sum of GTIs [s]
ontime3	7657.5999714732	Sum of GTIs [s]
ontime6	7657.5999714732	Sum of GTIs [s]
ontime7	7657.5999714732	Sum of GTIs [s]
l2events	77805	Number of level 2 events



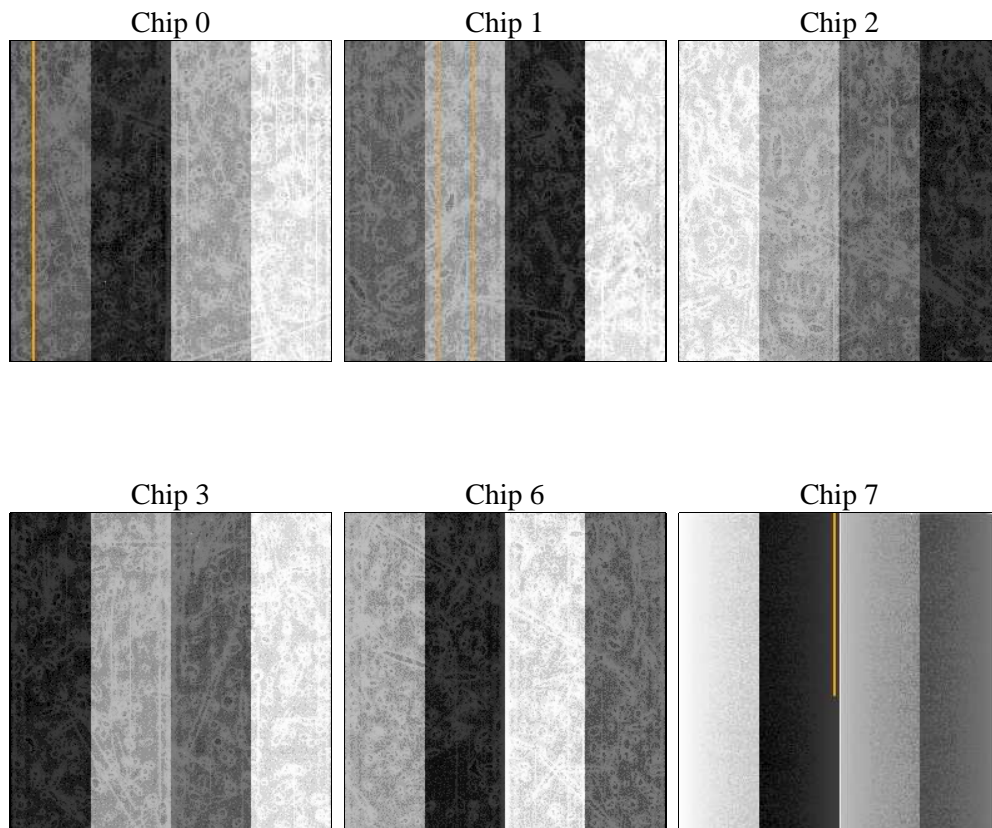
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7900.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7657.5999714732	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime0	7657.5999714732	Sum of GTIs [s]
date	2012-10-10T00:38:31	Date and time of file creation	ontime1	7657.5999714732	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	7657.5999714732	Sum of GTIs [s]
			ontime3	7657.5999714732	Sum of GTIs [s]
			ontime6	7657.5999714732	Sum of GTIs [s]
			ontime7	7657.5999714732	Sum of GTIs [s]
			l1events	332468	Number of level 1 events

### 2.1.4 Events

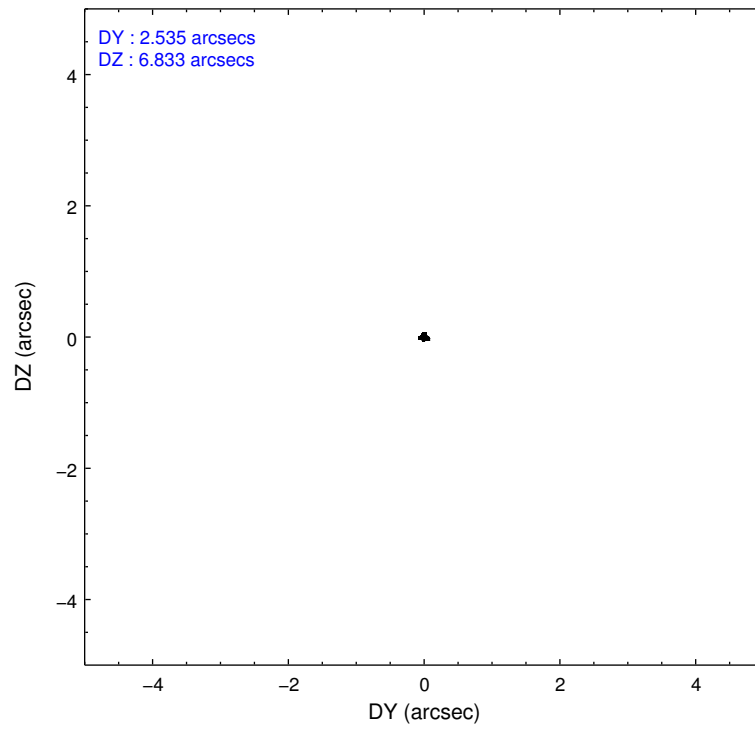
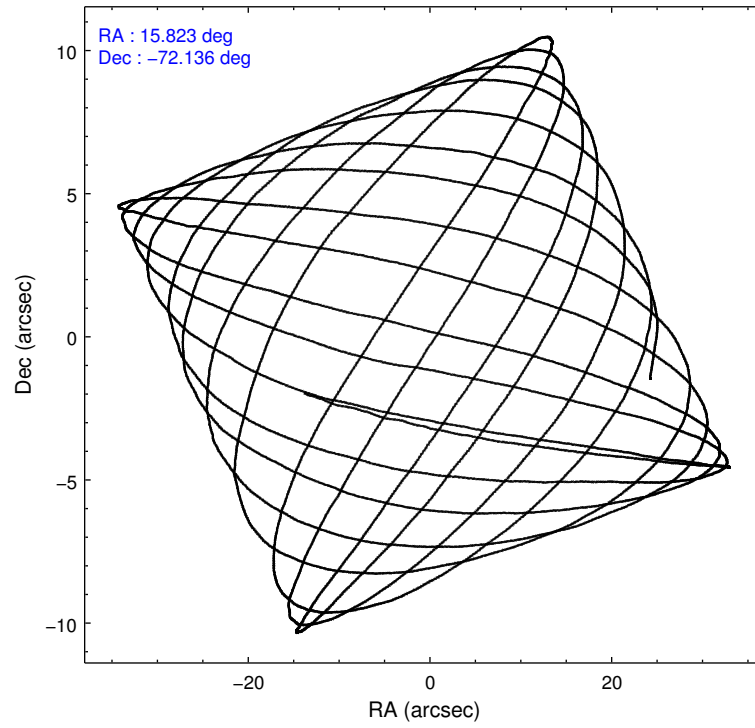
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	69705	46272	48918	49023	52287	66263	grade 0 events	23406	2956	2717	2953	2913	2816
rejected events	40227	39548	42826	42649	45906	38462		33%	6%	5%	6%	5%	4%
rejected %	57%	85%	87%	86%	87%	58%	grade 1 events	200	24	20	22	27	55
								0%	0%	0%	0%	0%	0%
							grade 2 events	2881	1343	1304	1225	1190	5550
								4%	2%	2%	2%	2%	8%
							grade 3 events	1013	628	569	574	579	2568
								1%	1%	1%	1%	1%	3%
							grade 4 events	954	638	551	531	575	2500
								1%	1%	1%	1%	1%	3%
							grade 5 events	2004	1980	1752	1993	2216	6258
								2%	4%	3%	4%	4%	9%
							grade 6 events	1249	1160	951	1092	1133	14377
								1%	2%	1%	2%	2%	21%
							grade 7 events	37998	37543	41054	40633	43654	32139
								54%	81%	83%	82%	83%	48%

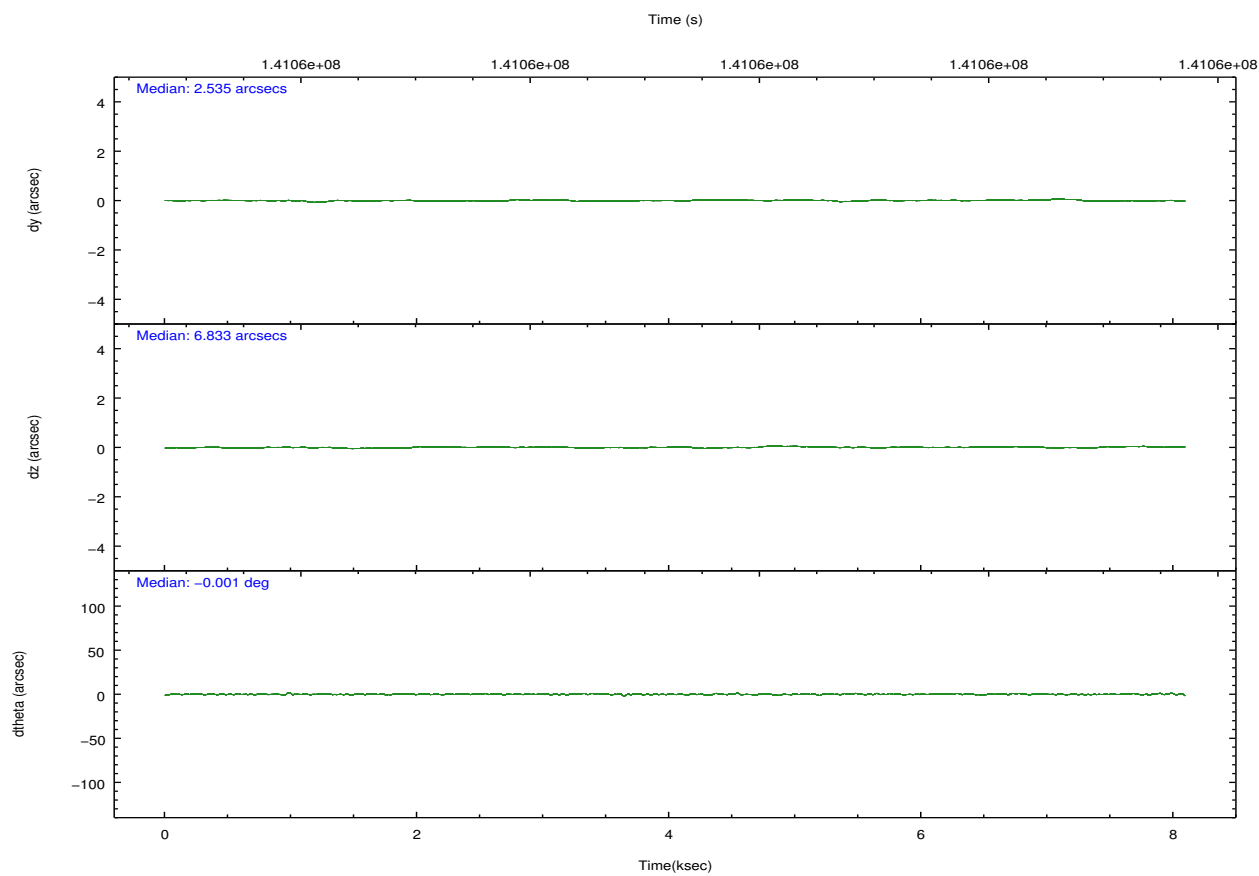
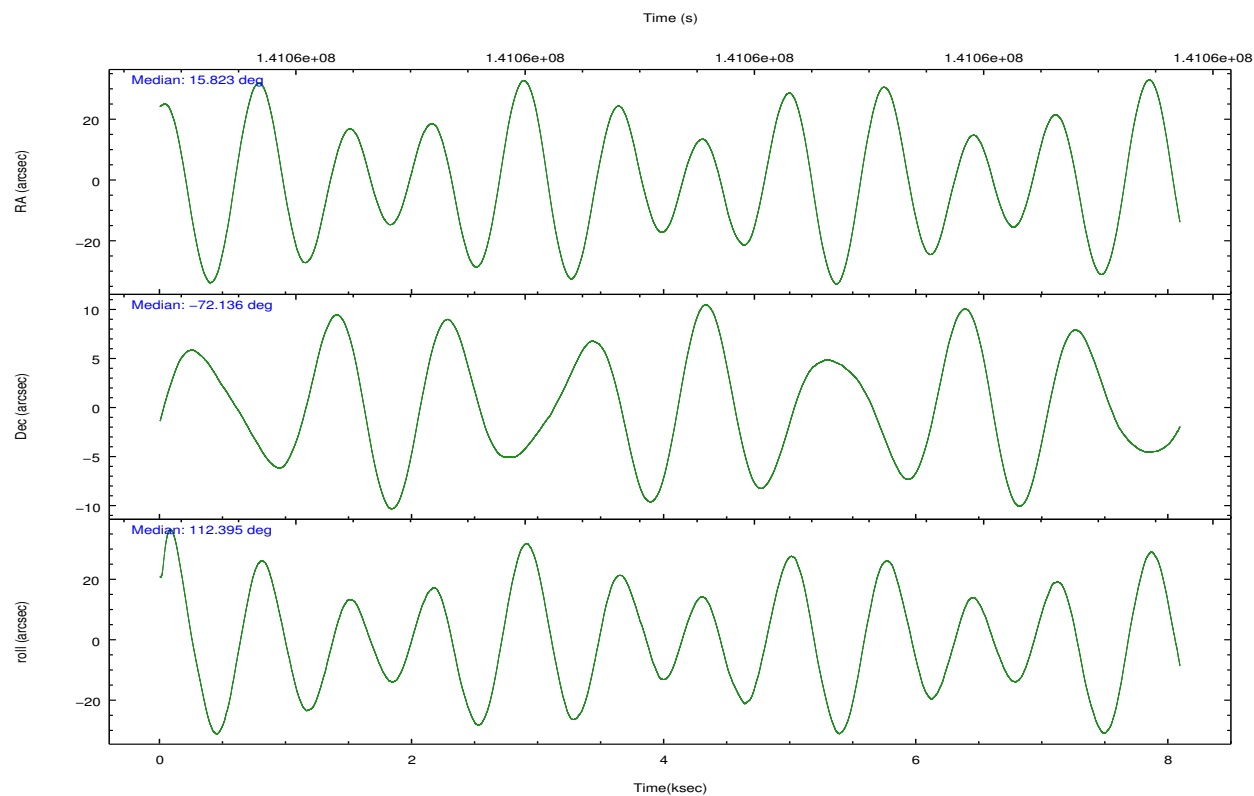


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	15.892894	15.82201597019775	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.152366	-72.13573057920811	Alternating exposures requested	N	N
[deg] Pointing Roll	112.257372	112.3985896452288	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	139276864.184000	139276864.184000			
[s] Window stop time (MET)	141782464.184000	141782464.184000			
[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)	141055413.184000	141055037.25062			
Observation start date	2002-06-21T14:02:29	2002-06-21T13:57:17			
[s] Observation end time (MET)	141063313.184000	141063446.86346			
Observation end date	2002-06-21T16:14:09	2002-06-21T16:17:26			
Read mode	TIMED	TIMED			

## 2.3 Aspect



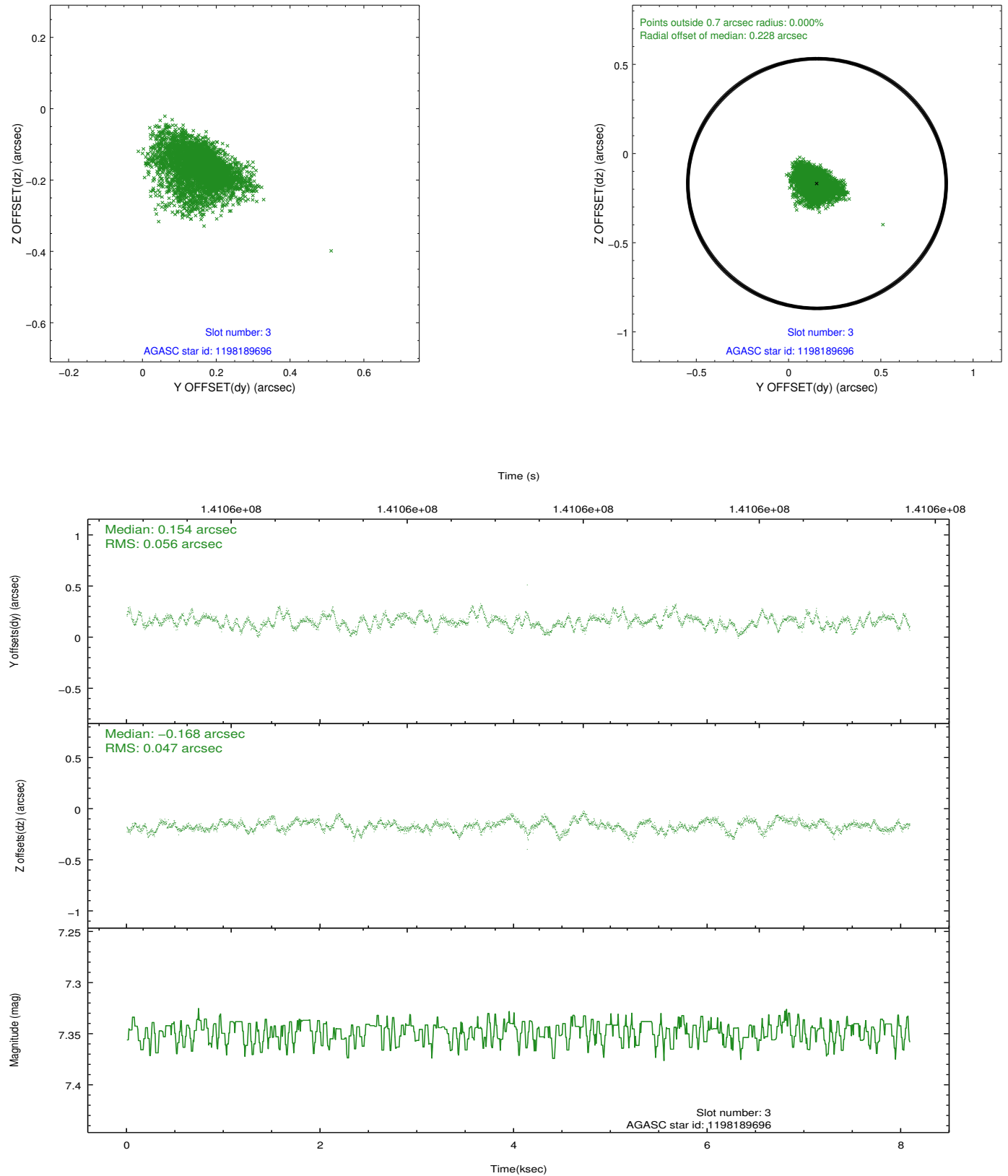


### Slot Statistics

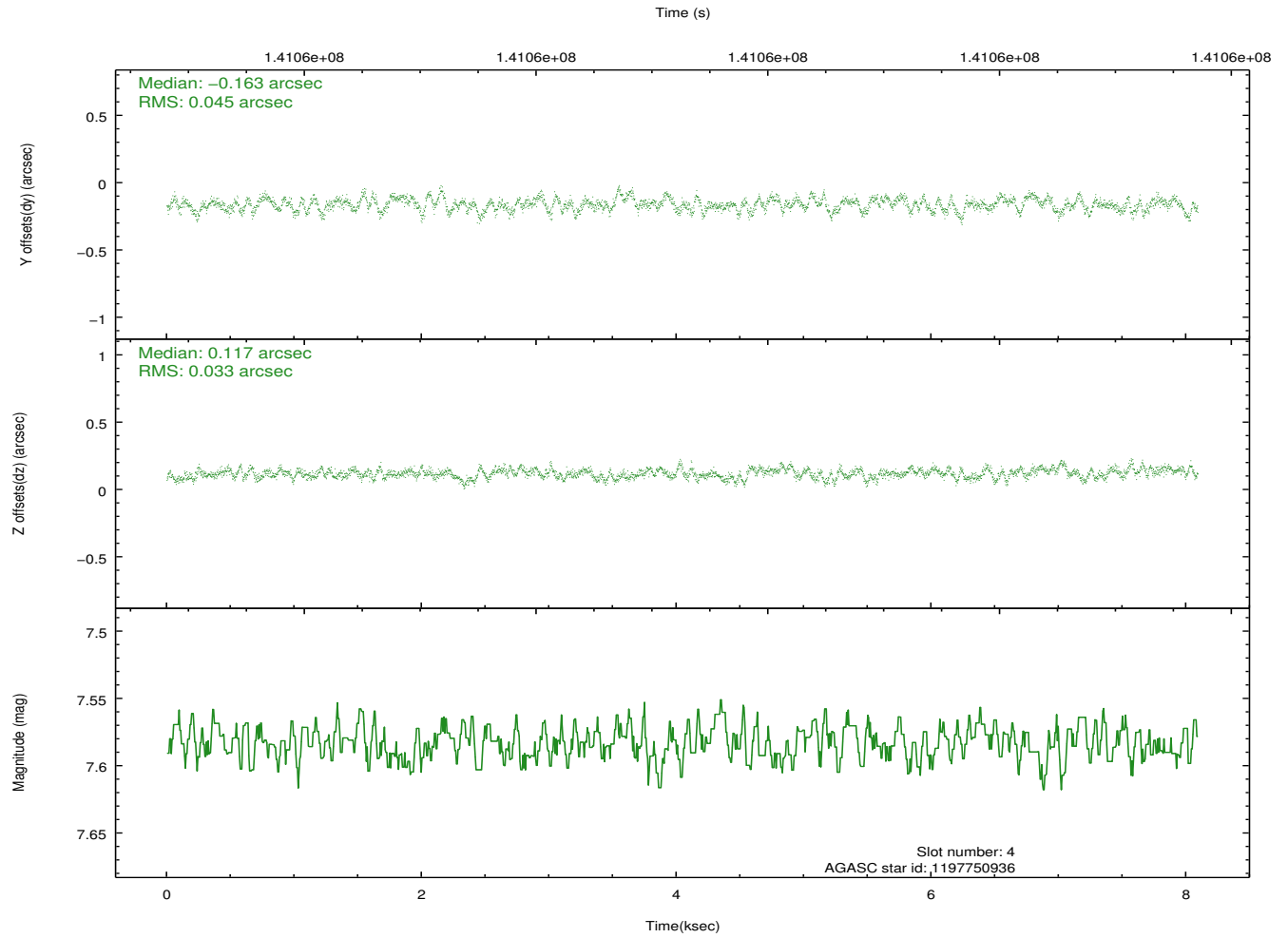
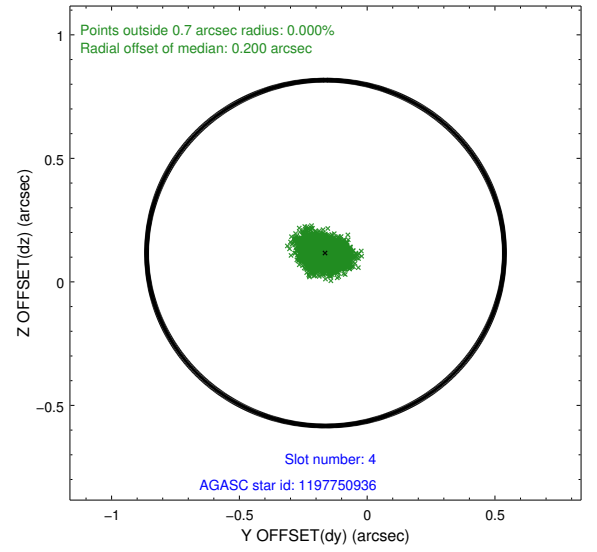
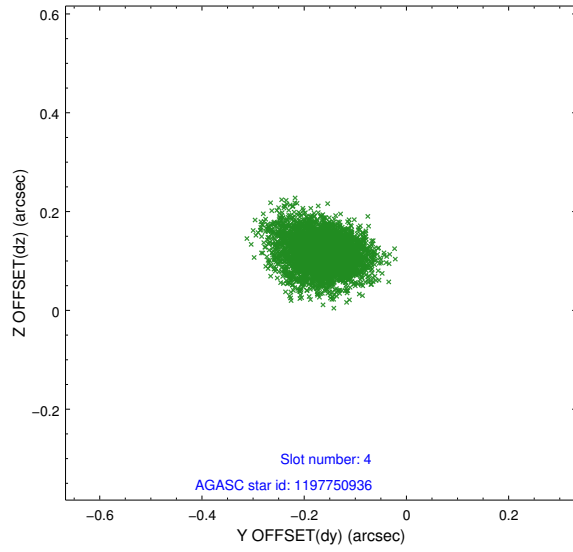
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1974	-0.001	0.013	0.006	0.011	0.000000	0.000000	937.25	-830.23
1	FID	ACIS-I-5	7.24	1974	-0.054	0.048	0.006	0.011	0.000000	0.000000	-1810.48	1067.01
2	FID	ACIS-I-6	7.26	1974	-0.036	0.009	0.007	0.011	0.000000	0.000000	402.07	1712.21
3	GUIDE	1198189696	7.35	3948	0.154	-0.168	0.077	0.131	15.223750	-72.697522	-1547.92	1408.55
4	GUIDE	1197750936	7.58	3948	-0.163	0.117	0.059	0.097	15.387940	-71.549550	2224.24	-287.07
5	GUIDE	1197884536	8.50	3947	-0.023	0.015	0.067	0.112	17.160729	-71.835289	505.10	-1742.59
6	GUIDE	1198283128	7.61	3948	0.059	0.097	0.059	0.093	17.272580	-72.642428	-2208.73	-696.24
7	GUIDE	1197749416	10.30	3943	-0.023	-0.069	0.196	0.326	13.610513	-71.871242	1860.08	2001.24

## 2.4 Star Slots

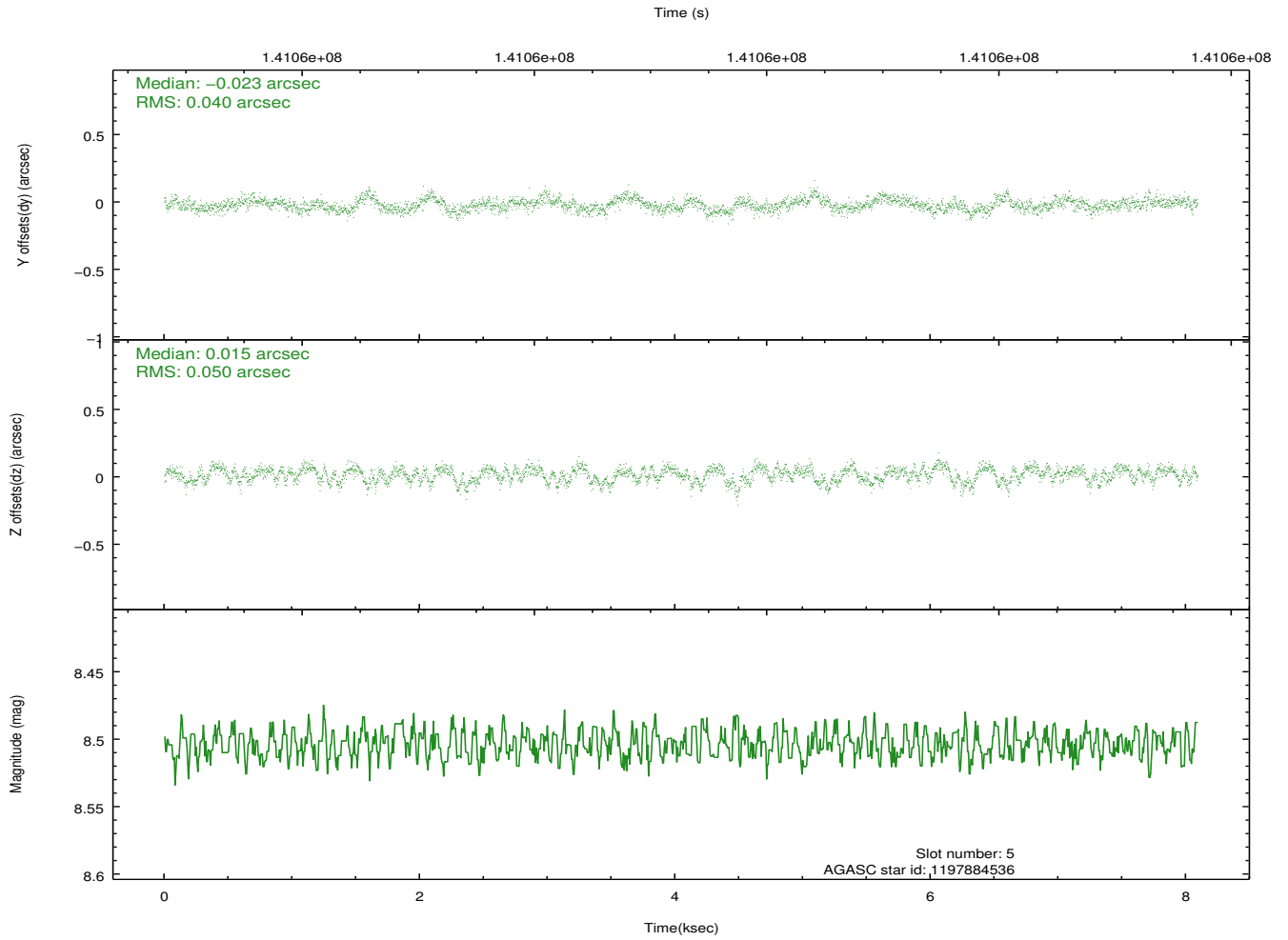
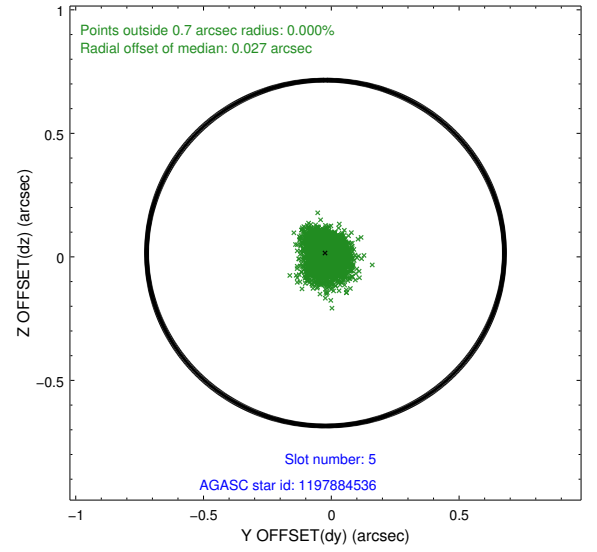
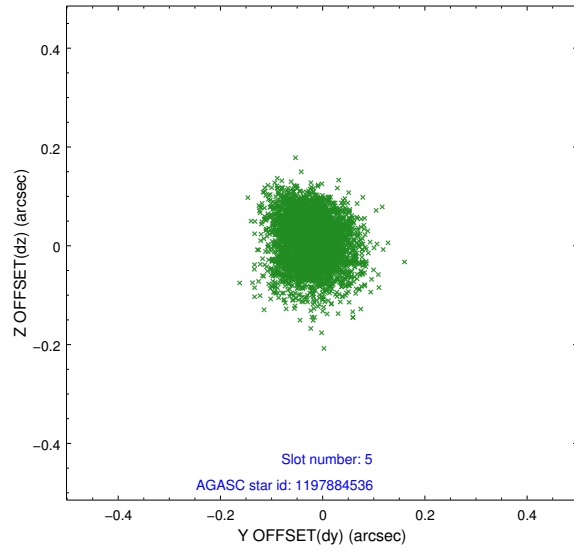
### 2.4.1 Slot 3



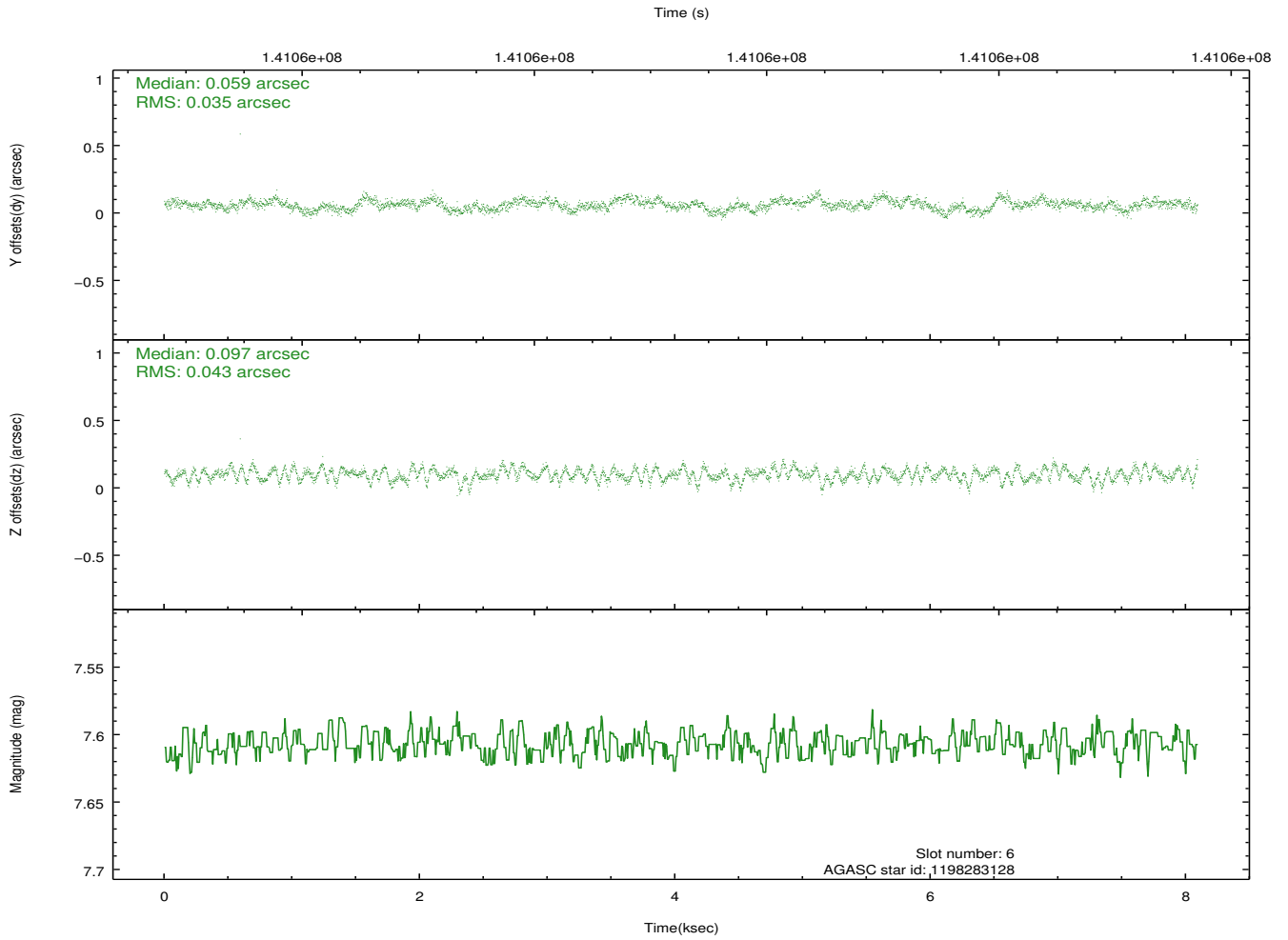
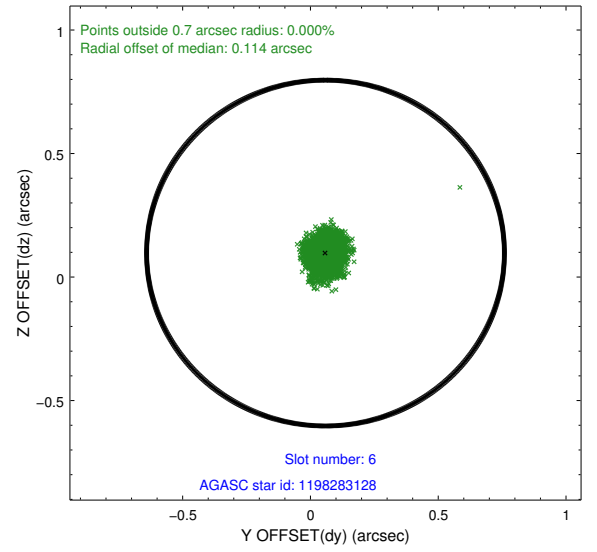
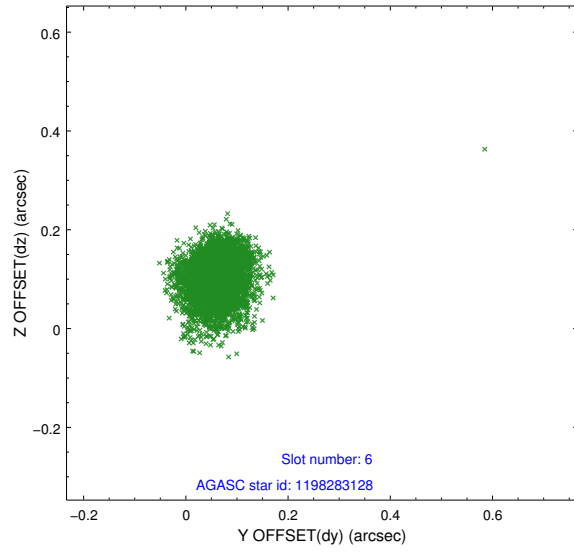
## 2.4.2 Slot 4



### 2.4.3 Slot 5

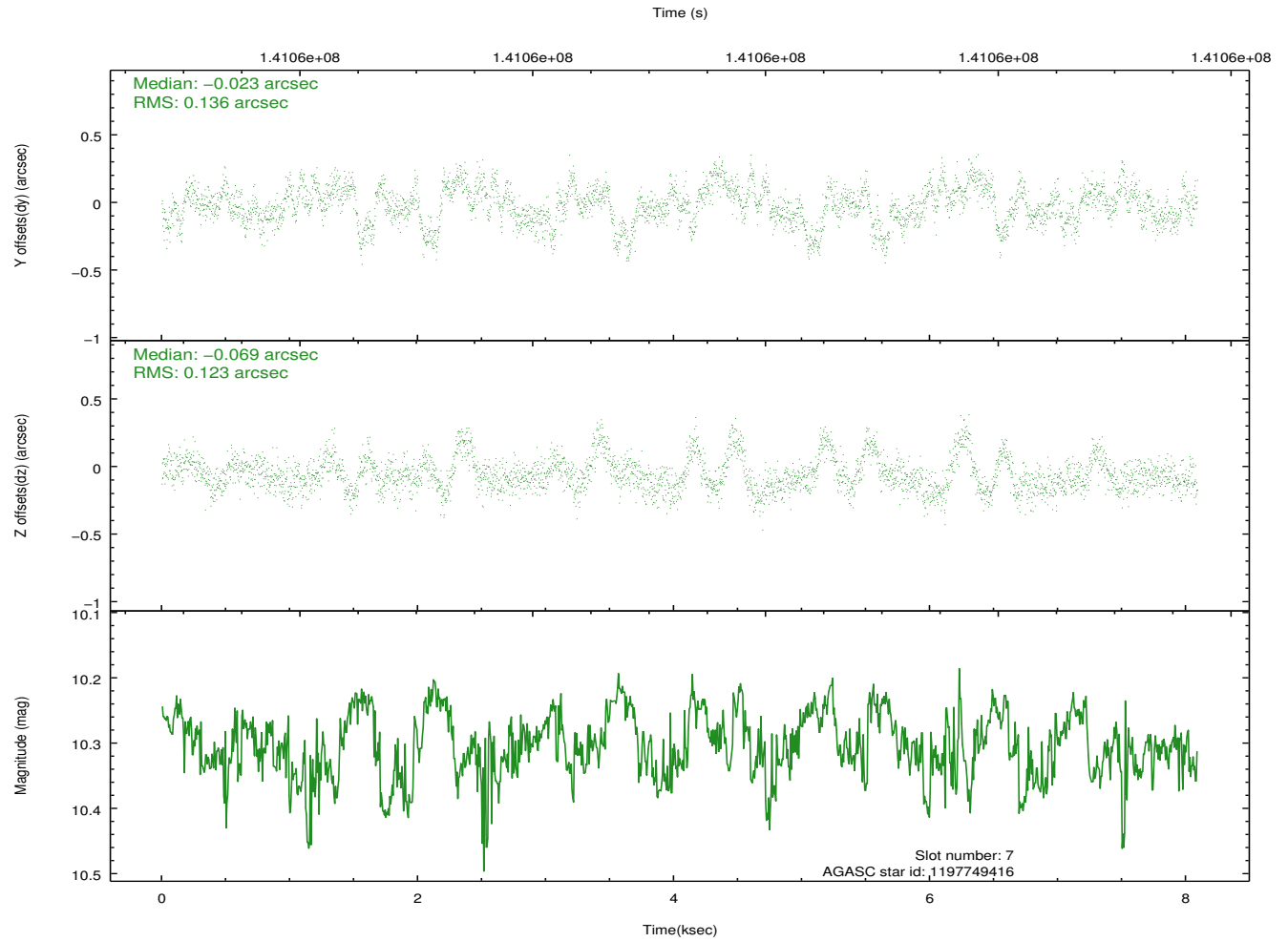
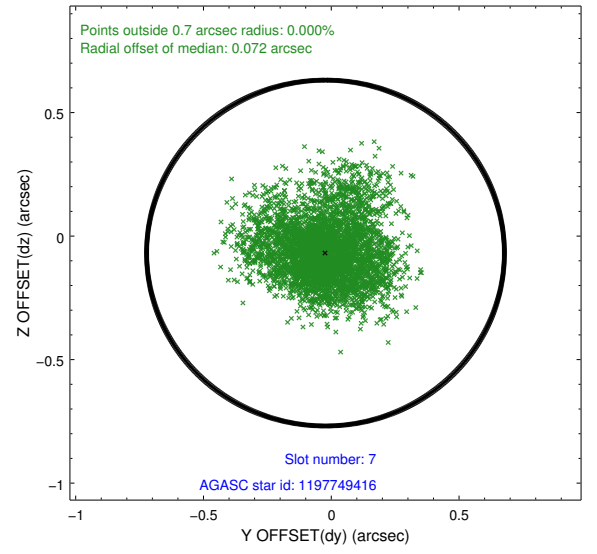
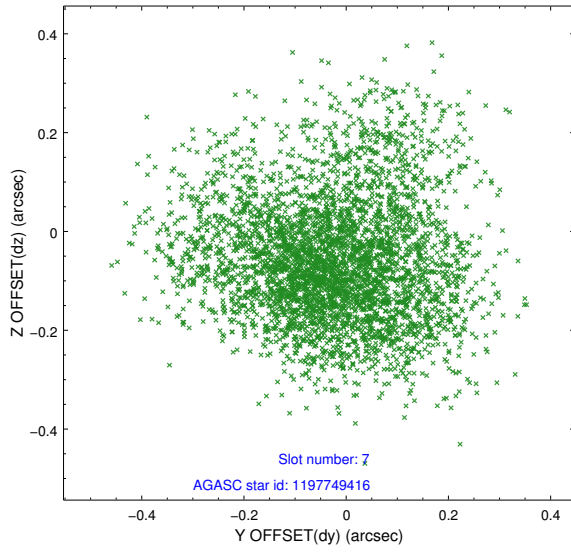


## 2.4.4 Slot 6



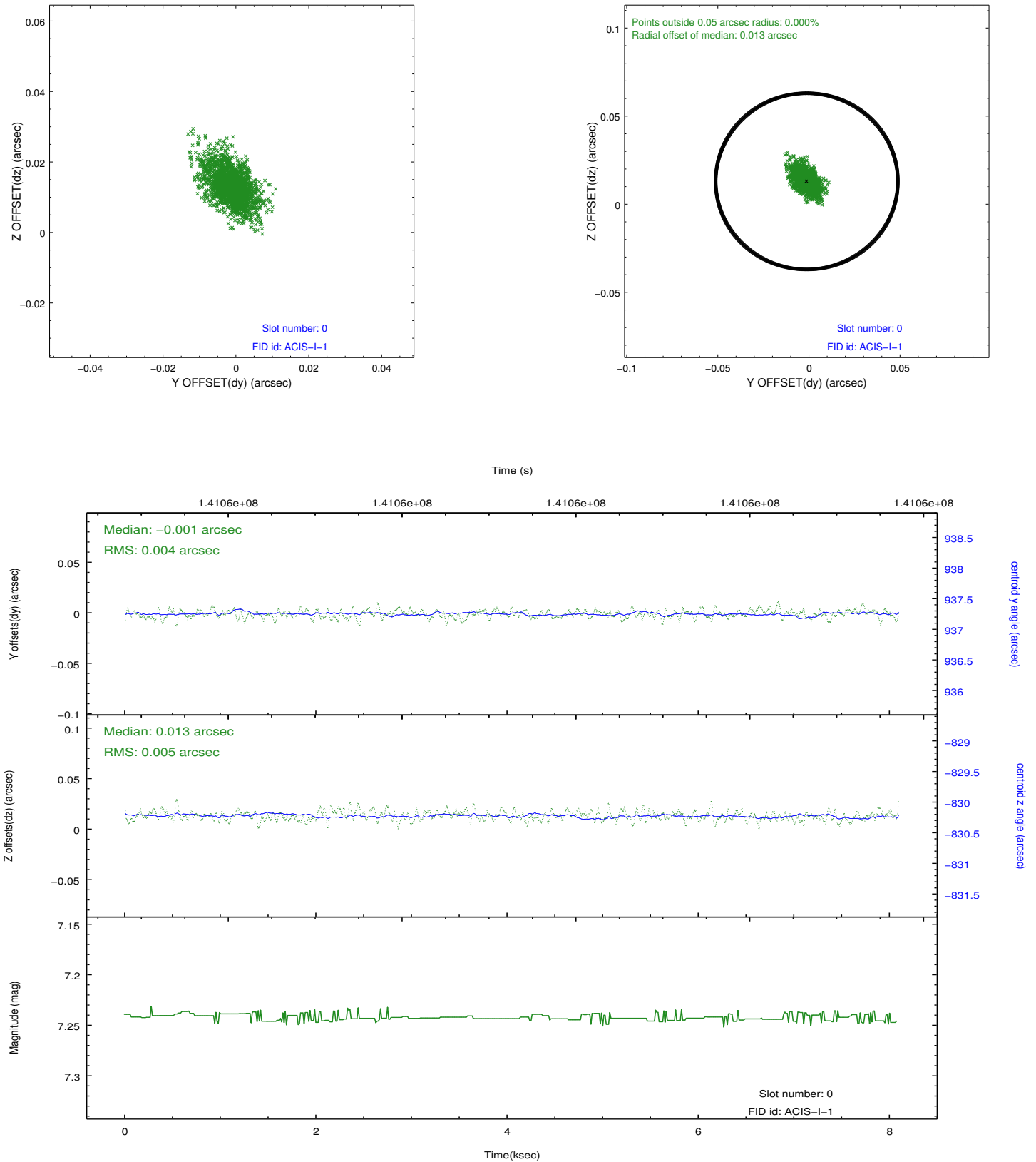


## 2.4.5 Slot 7

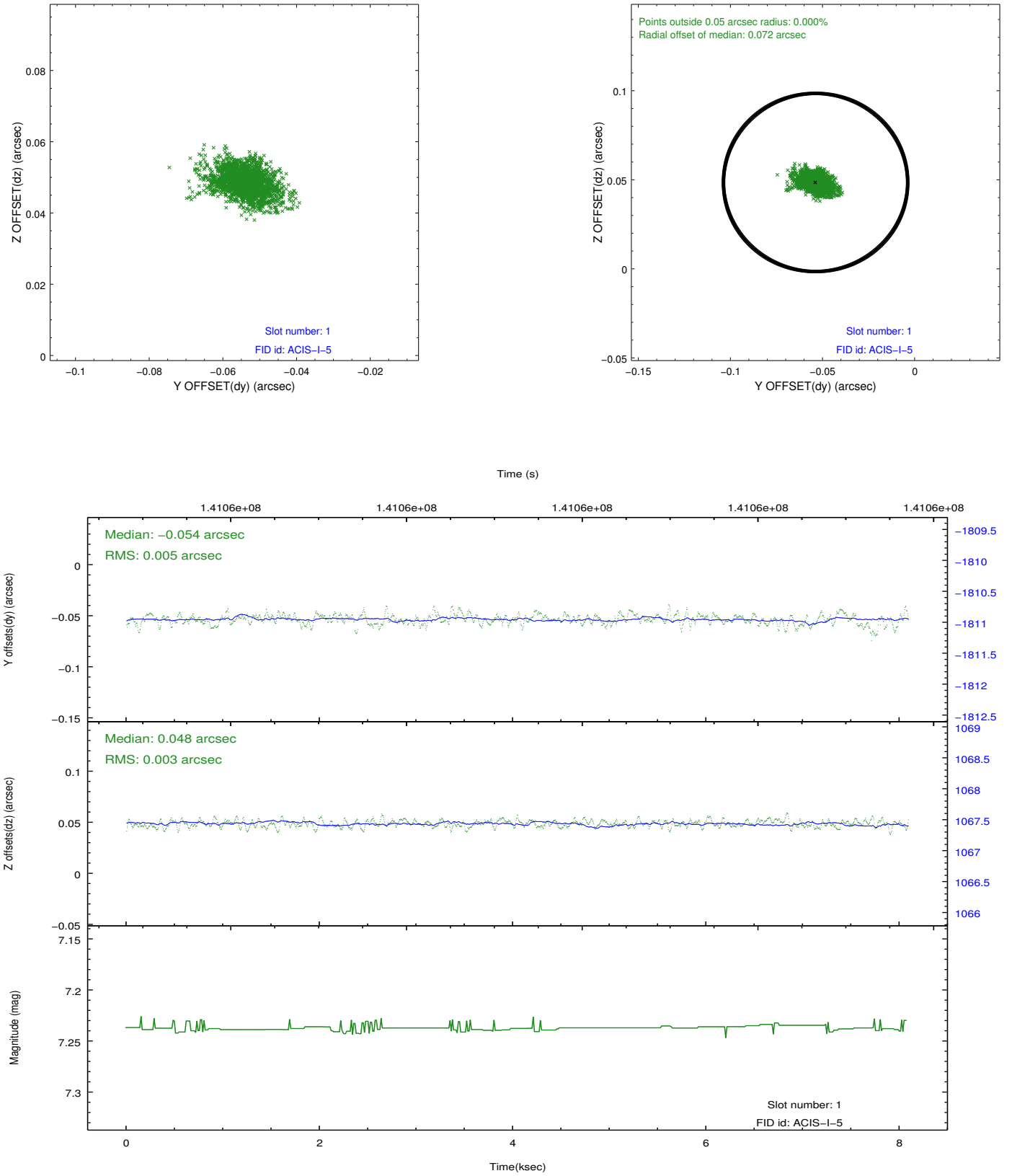


## 2.5 FID Slots

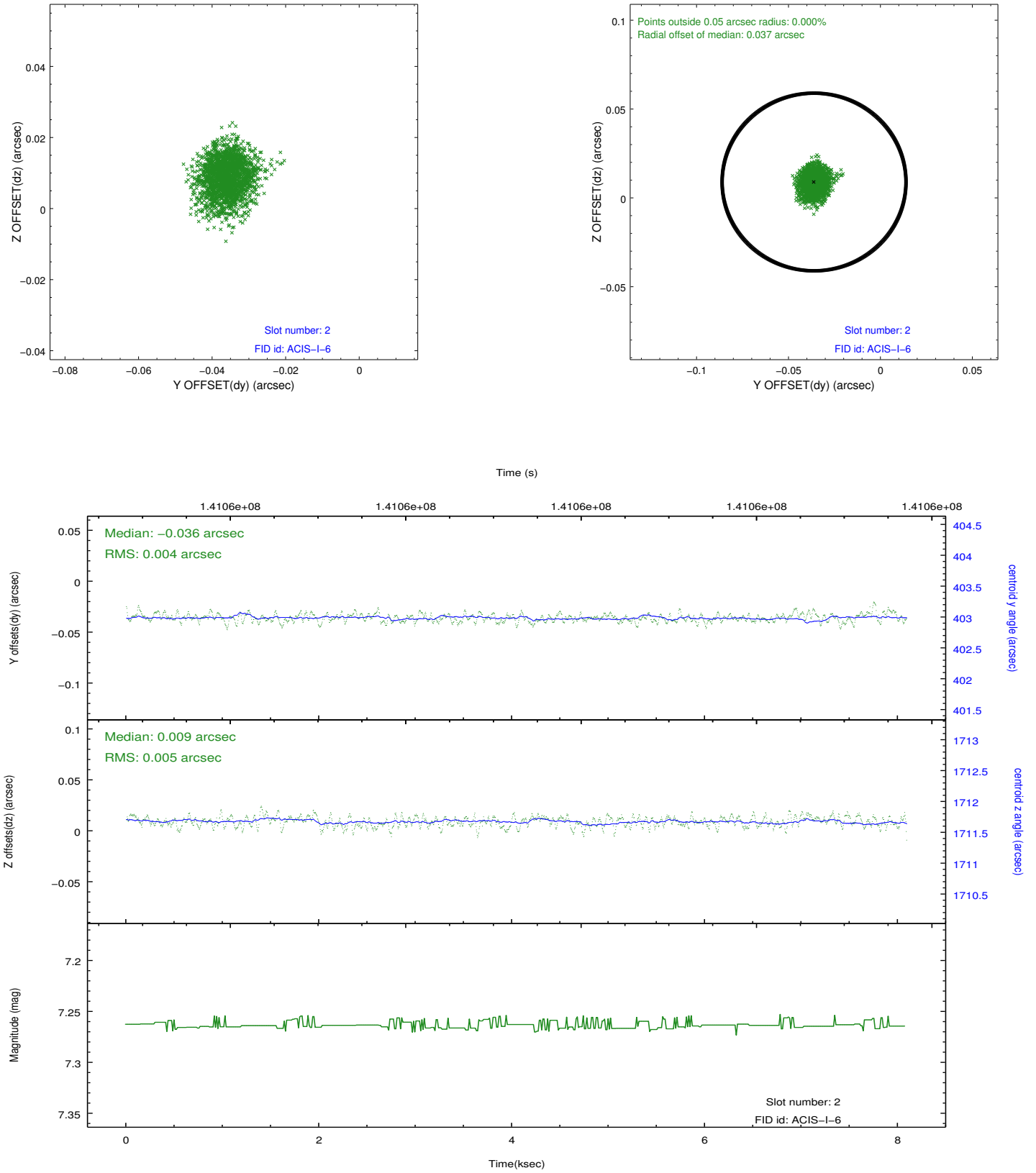
### 2.5.1 Slot 0



## 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)	2012.10.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.66

### A.2 Comments

Window constraint met.