

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 3546 - L2 Version 001  
Chandra X-Ray Center

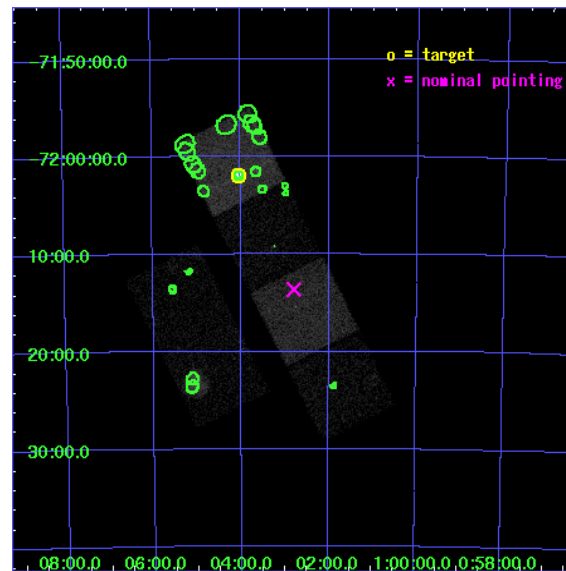
L2 Processing Date : Jul 10 2006

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# 1 Front

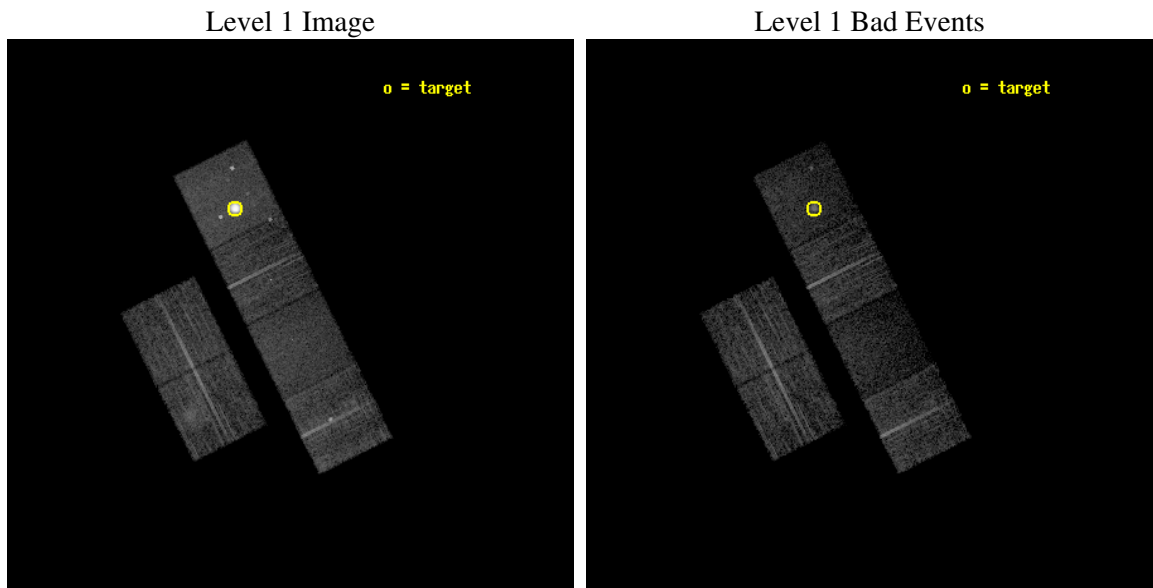
seq_num	590301
obs_id	3546
title	AO4B ACIS-S CALIBRATION OBSERVATIONS OF E0102-72
observer	Dr. CXC Calibration
object	E0102-72[S1,-120,13.29,0,0]
dtcycle	0
cycle	P
ra_targ	16.01
dec_targ	-72.032028
ra_nom	15.698617092357
dec_nom	-72.227346849883
roll_nom	63.513030606186
revision	2
ontime	7961.5999703407
livetime	7860.7853976163
ontime2	7961.5999703407
ontime3	7961.5999703407
ontime5	7961.5999703407
ontime6	7961.5999703407
ontime7	7961.5999703407
ontime8	7961.5999703407
l2events	101043



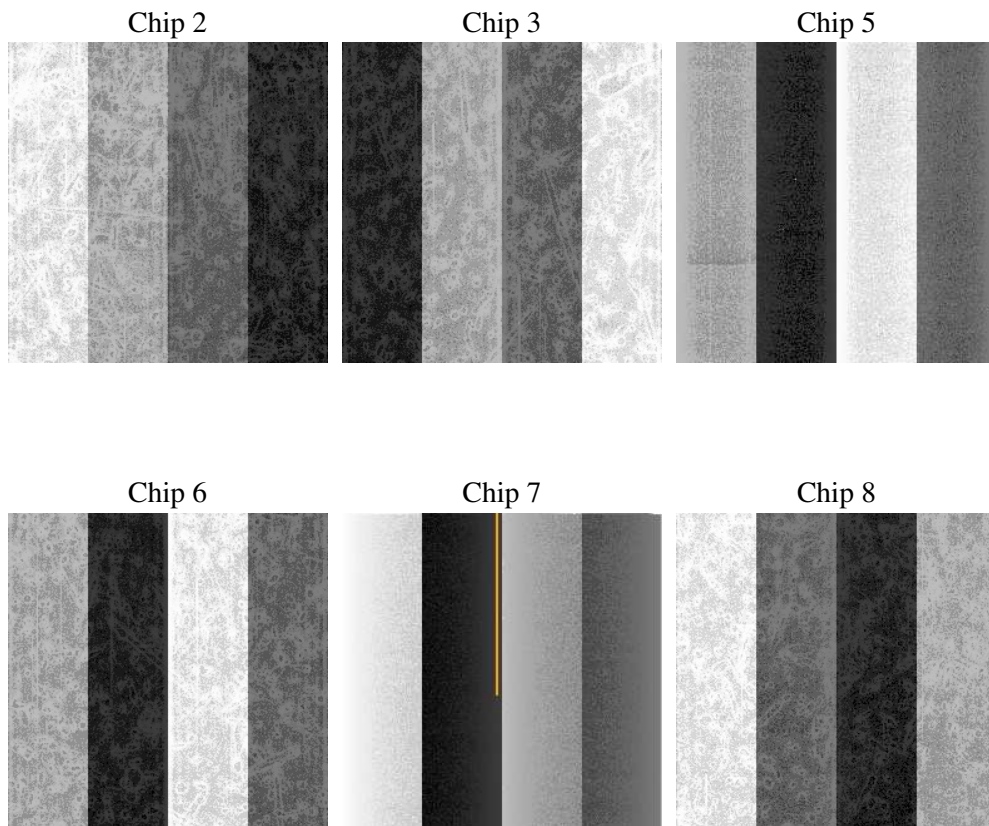
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldbver	3.2.2
date	2006-07-11T01:50:07
revision	2

sched_exp_time	8000.000000
ontime	7966.3859204352
ontime2	7966.3859204352
ontime3	7966.3859204352
ontime5	7966.3859204352
ontime6	7966.3859204352
ontime7	7966.3859204352
ontime8	7966.3859204352
l1events	302075

### 2.1.4 Events

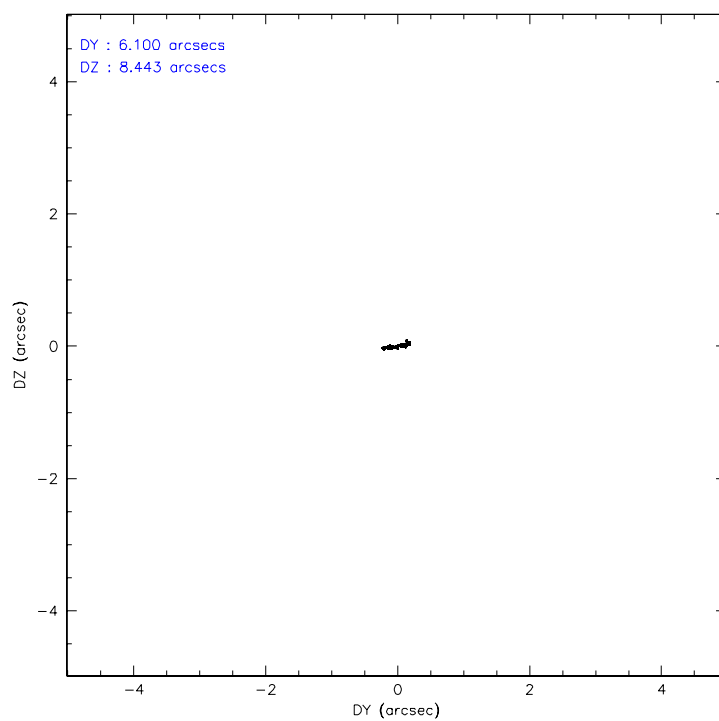
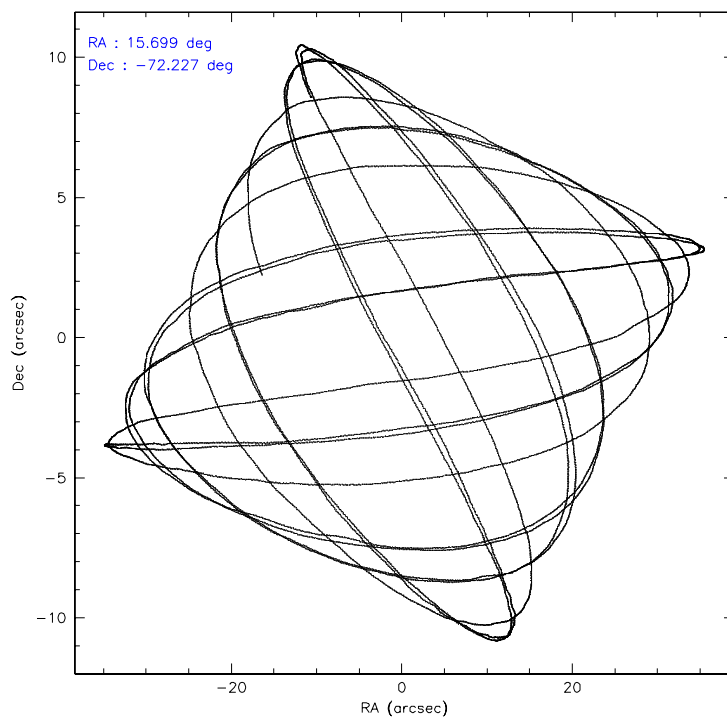
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	40992	42400	96399	38741	36319	47224
rejected events	36896	36738	23719	33973	19172	35743
rejected %	90%	86%	24%	87%	52%	75%

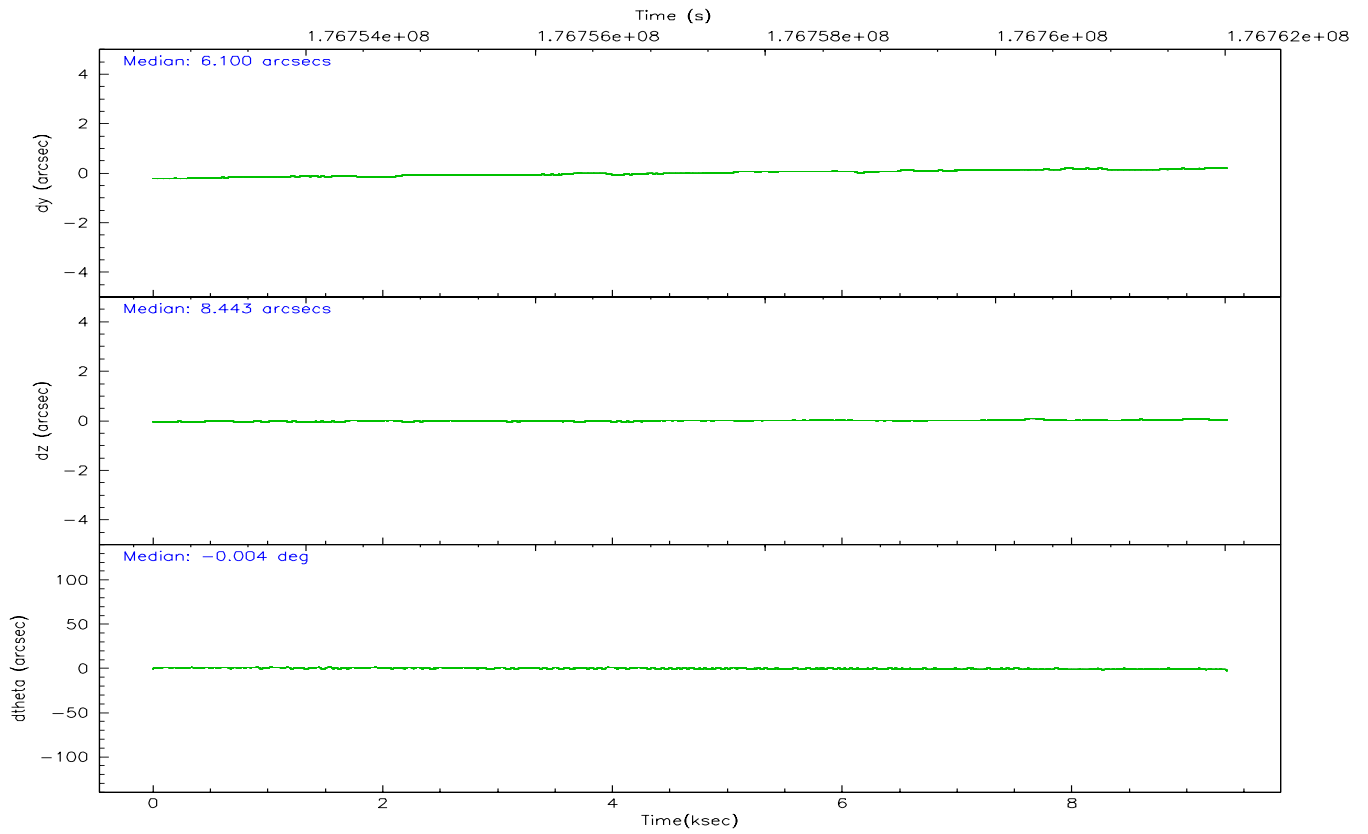
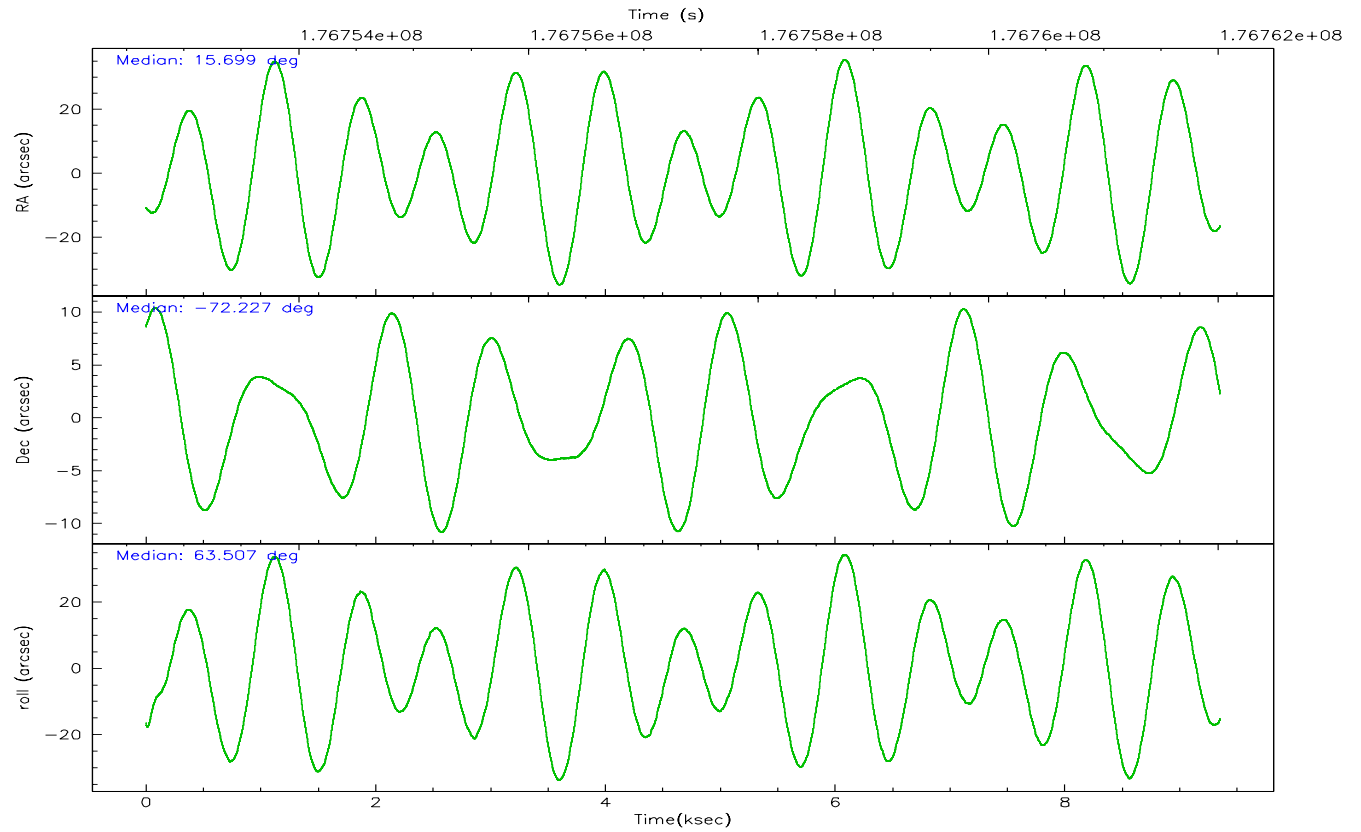
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1719	3225	24758	2143	1337	3712
	4%	7%	25%	5%	3%	7%
grade 1 events	22	24	295	20	26	37
	0%	0%	0%	0%	0%	0%
grade 2 events	871	885	21462	939	4425	2508
	2%	2%	22%	2%	12%	5%
grade 3 events	427	447	4717	454	1145	1223
	1%	1%	4%	1%	3%	2%
grade 4 events	424	457	4988	428	1113	1120
	1%	1%	5%	1%	3%	2%
grade 5 events	1101	1266	3090	1308	2793	1858
	2%	2%	3%	3%	7%	3%
grade 6 events	656	655	16829	806	9140	2924
	1%	1%	17%	2%	25%	6%
grade 7 events	35772	35441	20260	32643	16340	33842
	87%	83%	21%	84%	44%	71%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	15.705373	15.69861709235714	Alternating exposures requested	N	N
Pointing Dec	-72.254565	-72.22734684988308	Primary exposure time	0.000000	3.2
Pointing Roll	63.362841	63.51303060618609			
Window start time	174614464.184000	174614464.184000			
Window stop time	177292864.184000	177292864.184000			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	176754023.184000	176752477.48206			
Observation start date	2003-08-08T18:19:19	2003-08-08T17:54:37			
Observation end time	176762023.184000	176762157.58247			
Observation end date	2003-08-08T20:32:39	2003-08-08T20:35:57			
Read mode	TIMED	TIMED			

## 2.3 Aspect





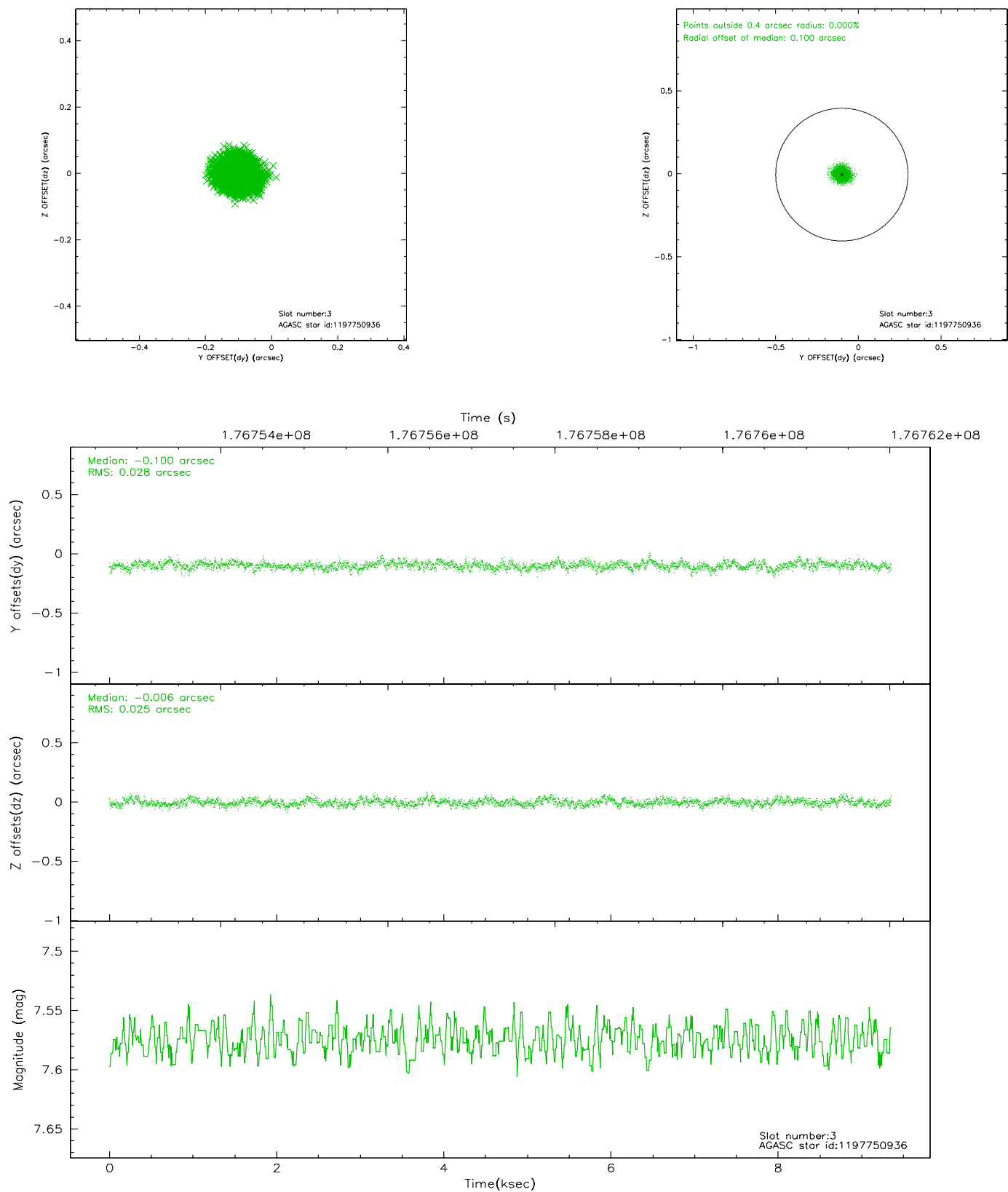
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	2281	0.023	0.011	0.006	0.011	0.000000	0.000000	937.17	-1725.30
1	FID	ACIS-S-5	7.23	2282	-0.035	0.032	0.006	0.011	0.000000	0.000000	-1811.50	171.77
2	FID	ACIS-S-6	7.35	2281	-0.009	-0.031	0.007	0.012	0.000000	0.000000	402.15	816.25
3	GUIDE	1197750936	7.57	4563	-0.100	-0.006	0.040	0.065	15.387940	-71.549550	2105.26	1460.82
4	GUIDE	1197884712	8.30	4561	0.109	0.020	0.055	0.089	16.087398	-72.252690	193.30	-372.05
5	GUIDE	1197885328	7.25	4563	-0.078	-0.126	0.044	0.072	16.283090	-71.733943	1964.95	255.85
6	GUIDE	1198189696	7.36	4563	0.009	0.074	0.048	0.074	15.223750	-72.697522	-1658.07	-255.14
7	GUIDE	1197885104	9.36	4561	0.060	0.038	0.081	0.131	17.845067	-72.189368	1228.04	-2019.14

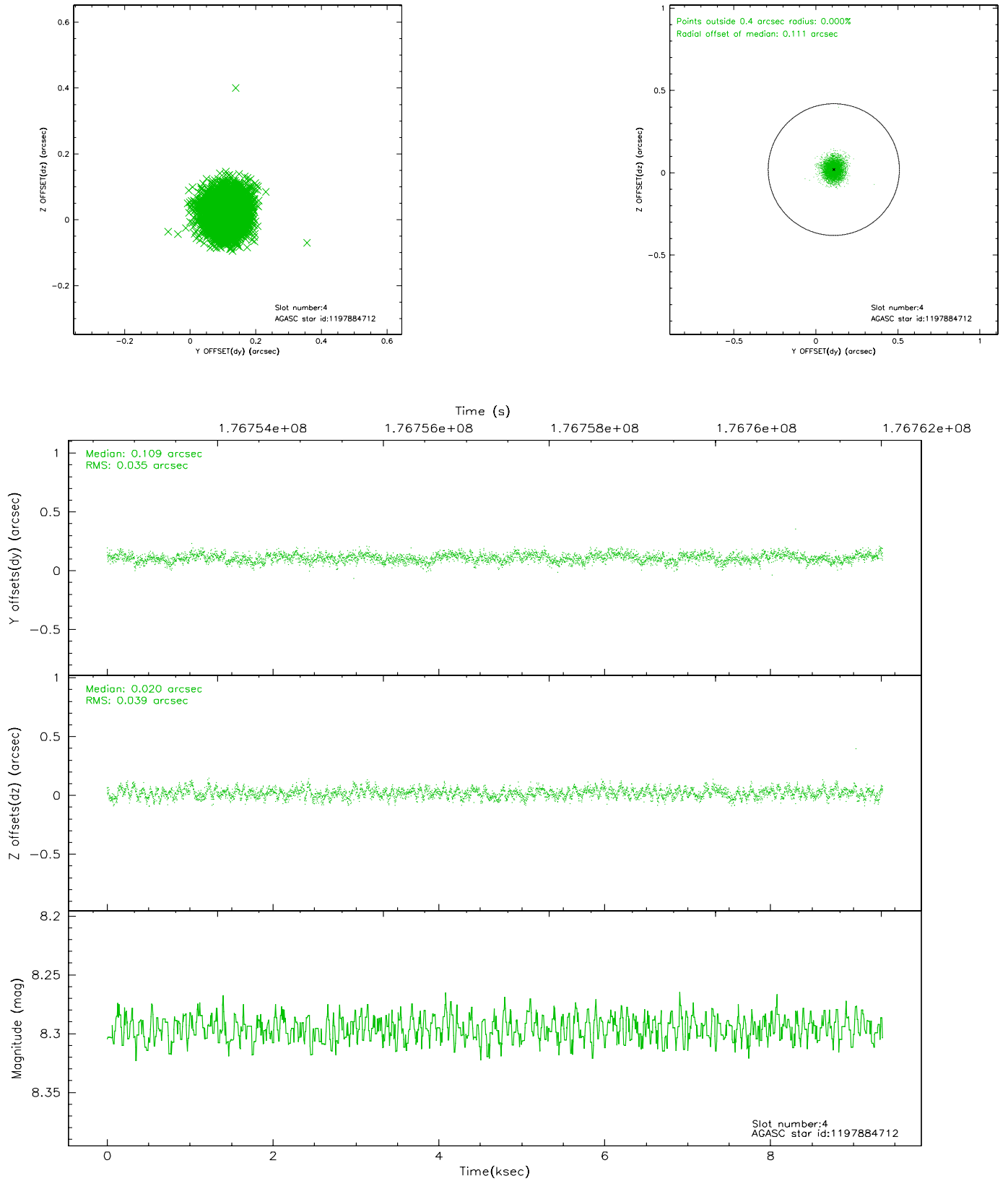


## 2.4 Star Slots

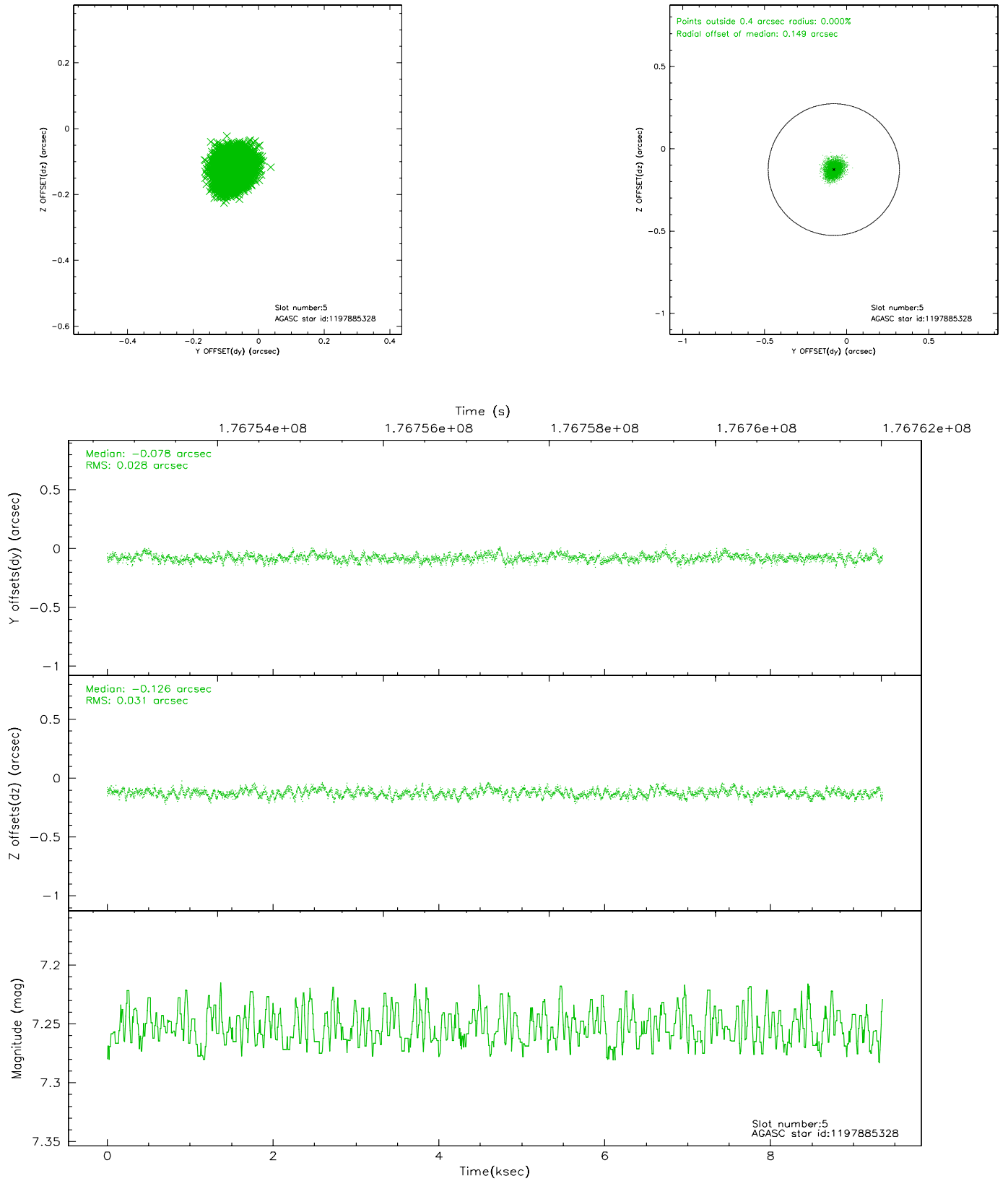
### 2.4.1 Slot 3



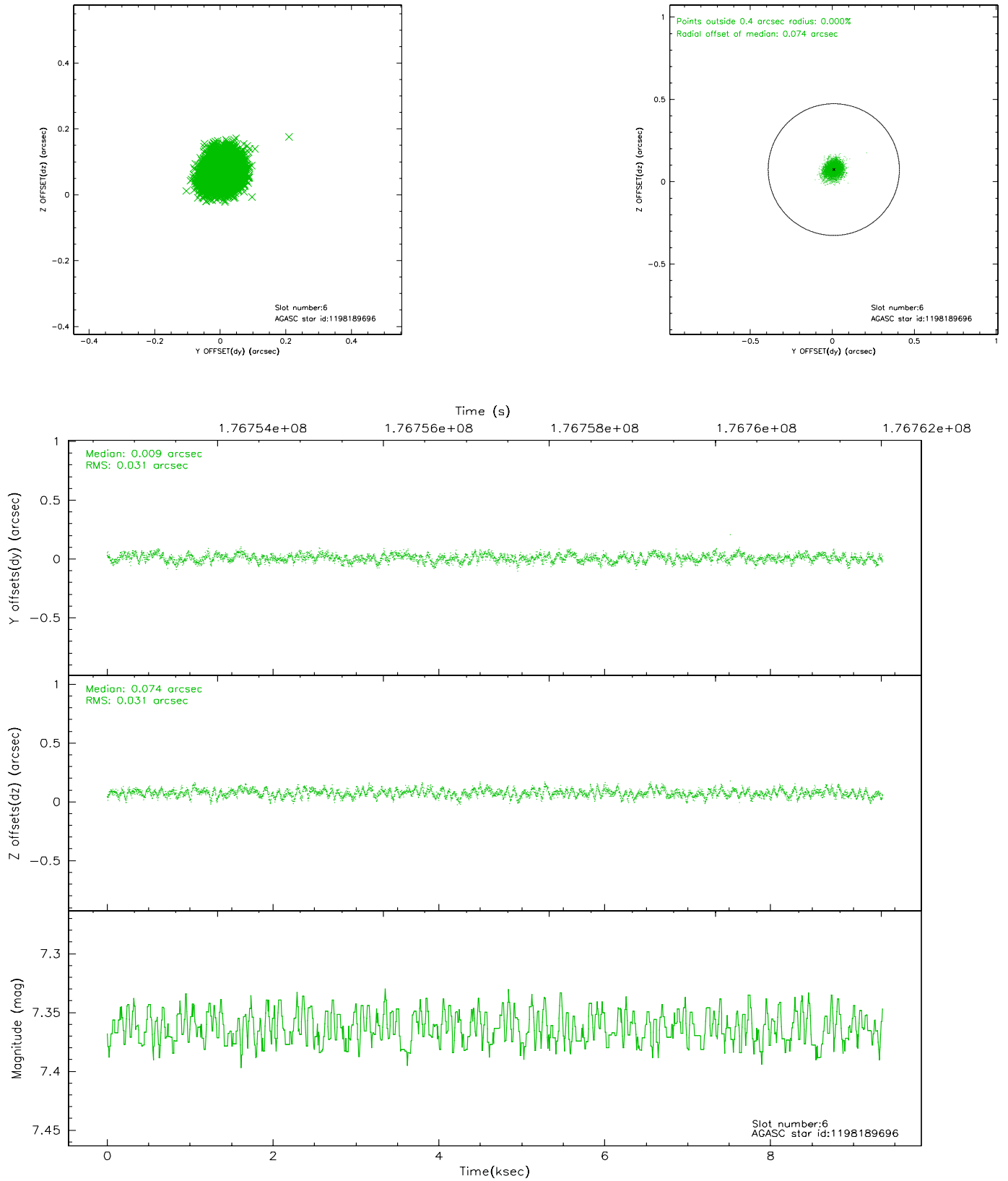
## 2.4.2 Slot 4



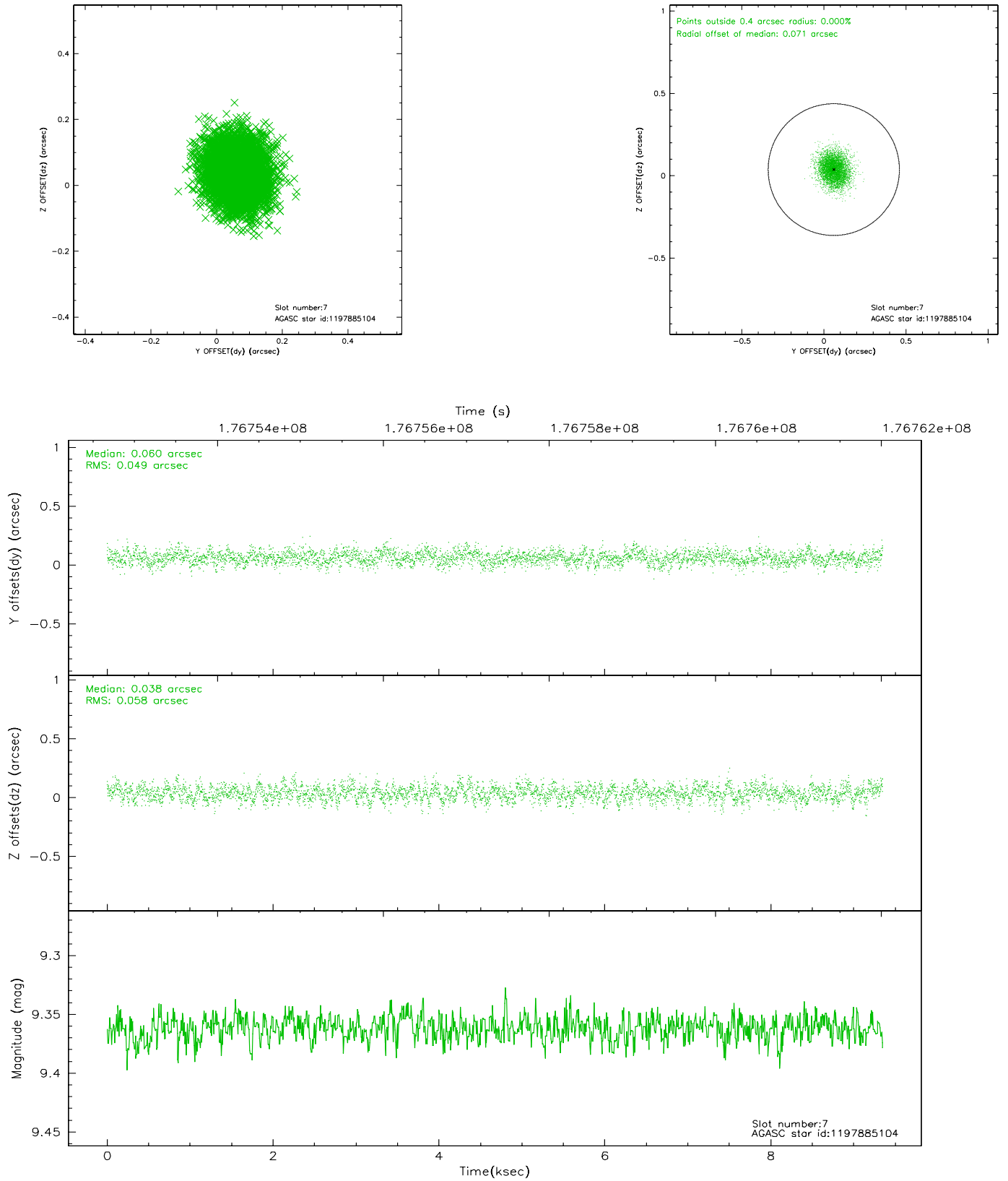
### 2.4.3 Slot 5



## 2.4.4 Slot 6

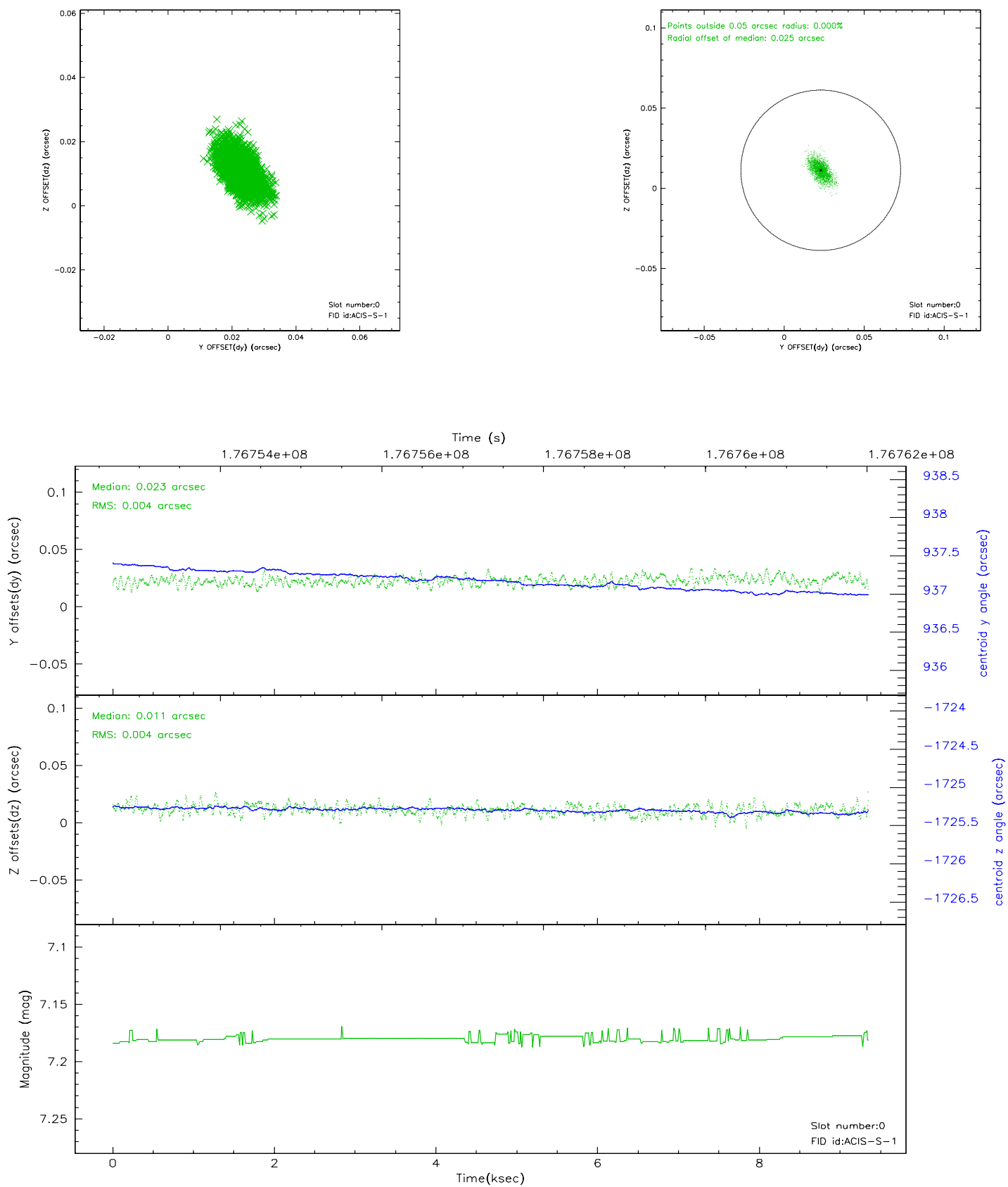


## 2.4.5 Slot 7

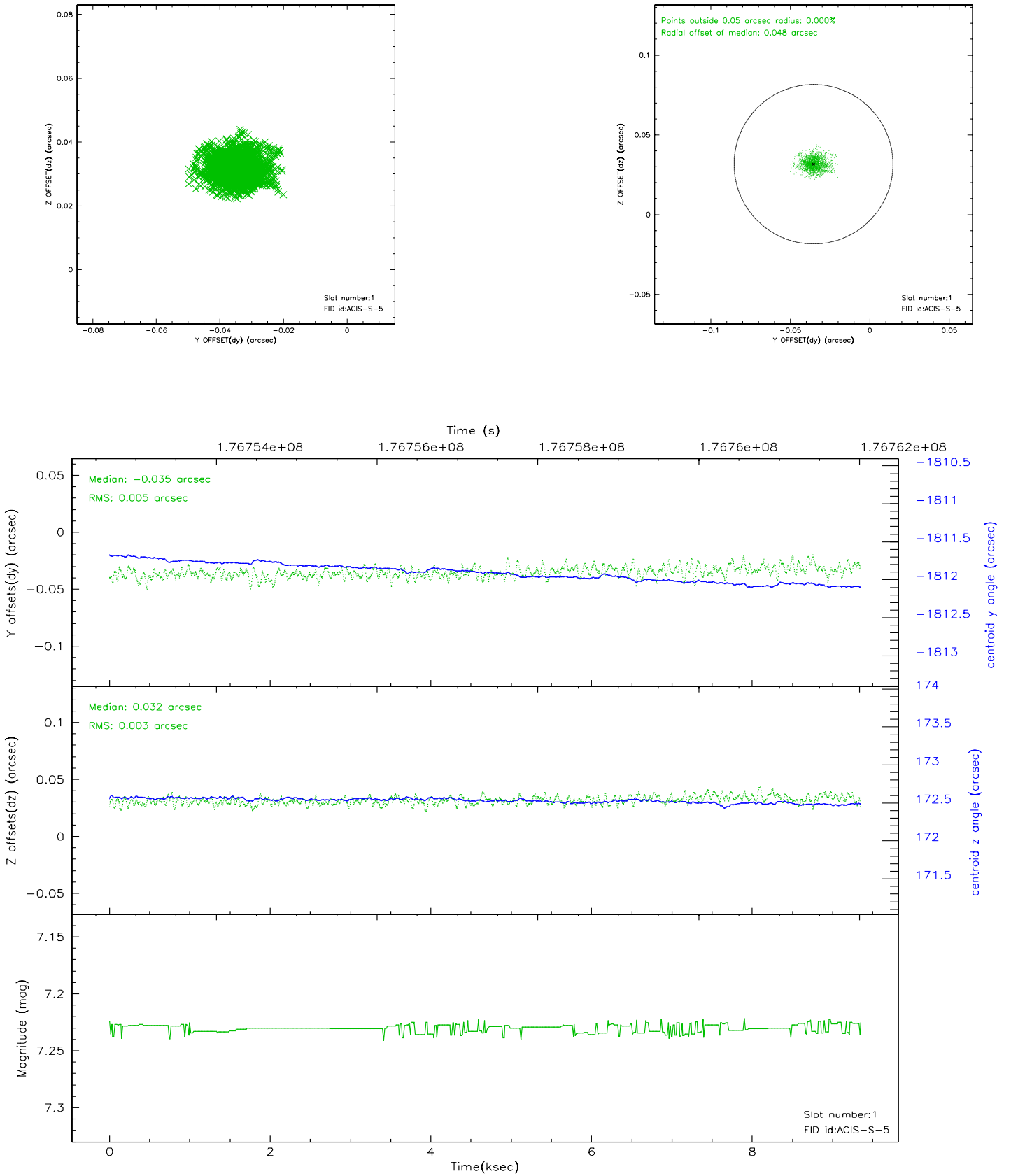


## 2.5 FID Slots

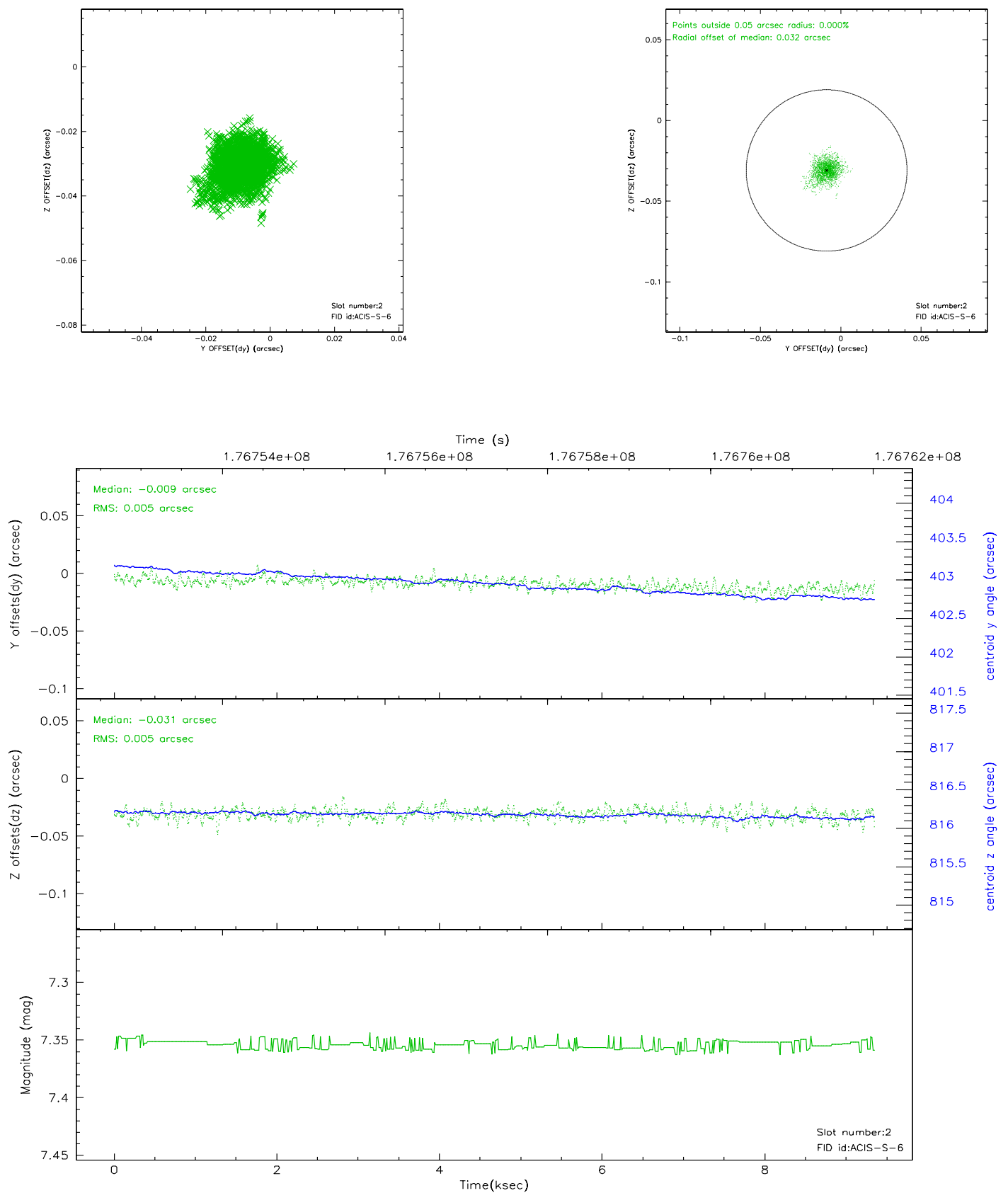
### 2.5.1 Slot 0



## 2.5.2 Slot 1

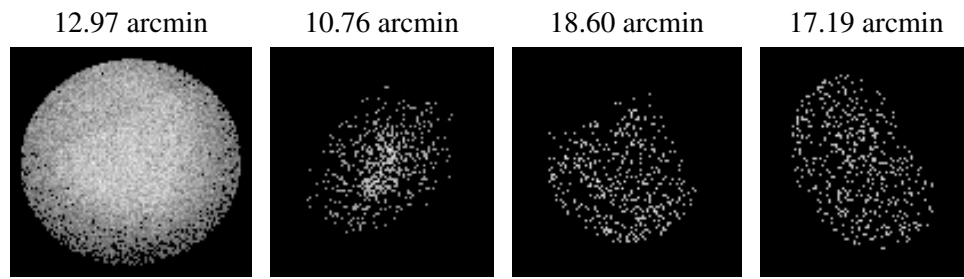


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.07.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.964

### A.2 Comments

Window constraint met.