

# V&V Reference Report

## L2 ASCDS Version : 7.6.7

Observation 5158 - L2 Version 002  
Chandra X-Ray Center

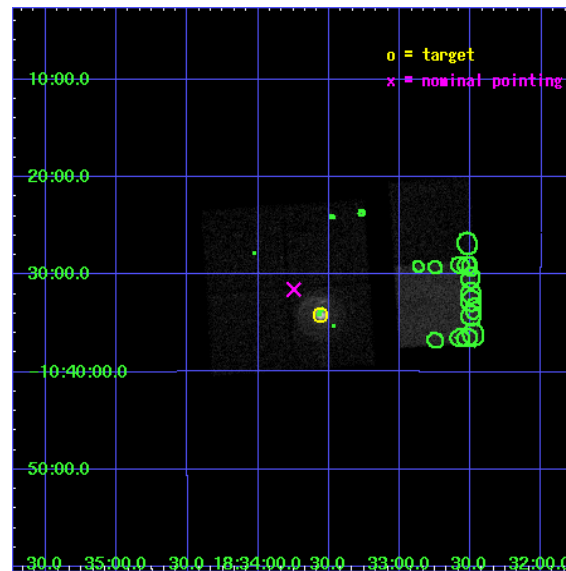
L2 Processing Date: Feb 25 2006

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# 1 Front

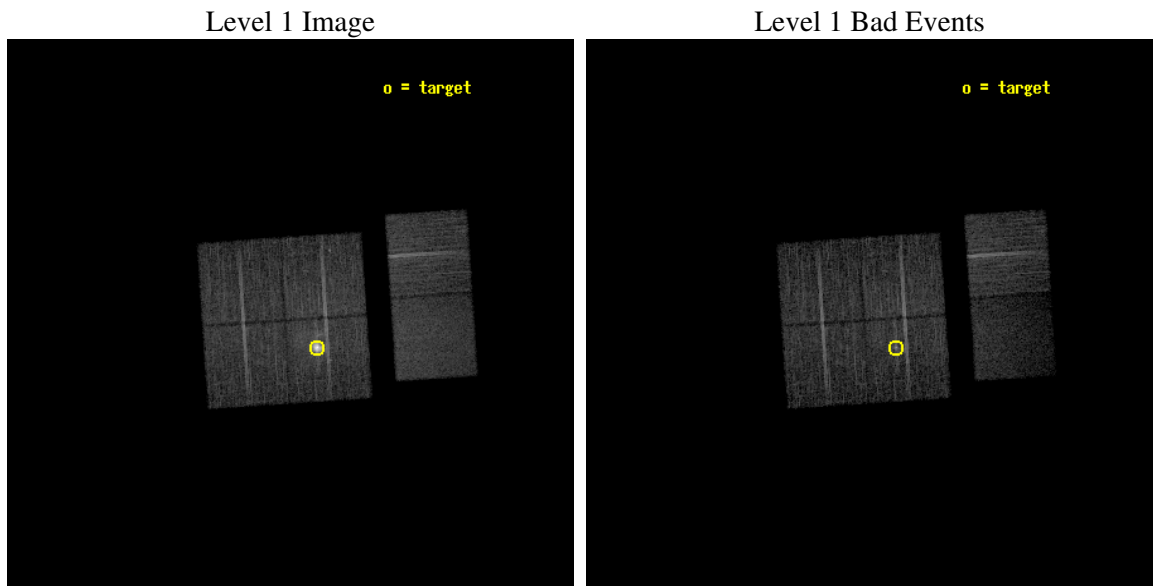
seq_num	590356
obs_id	5158
title	AO5B Observations of the Standard Candles Cas A and G21.5-09
observer	Dr. CXC Calibration
object	G21.5-09[I3,-120,-2.5,2.5,0]
dtcycle	0
cycle	P
ra_targ	278.389583
dec_targ	-10.568528
ra_nom	278.43696379871
dec_nom	-10.525769236717
roll_nom	86.142726133699
revision	2
ontime	10127.99996227
livetime	9999.7531283986
ontime0	10127.99996227
ontime1	10127.99996227
ontime2	10127.99996227
ontime3	10127.99996227
ontime6	10127.99996227
ontime7	10127.99996227
l2events	80025



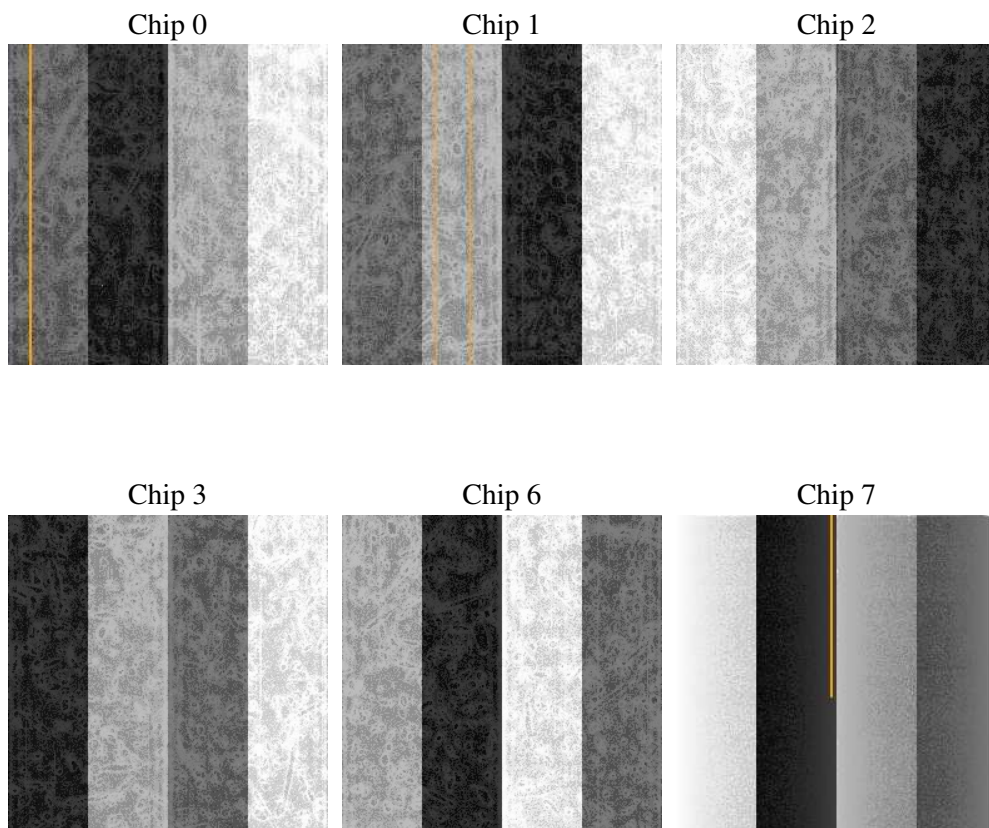
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.7
caldbver	3.2.1
date	2006-02-25T08:38:19
revision	2

sched_exp_time	10000.000000
ontime	10679.105643839
ontime0	10679.105643839
ontime1	10679.10567376
ontime2	10679.105643839
ontime3	10679.105643839
ontime6	10679.10567376
ontime7	10679.10567376
l1events	397568

### 2.1.4 Events

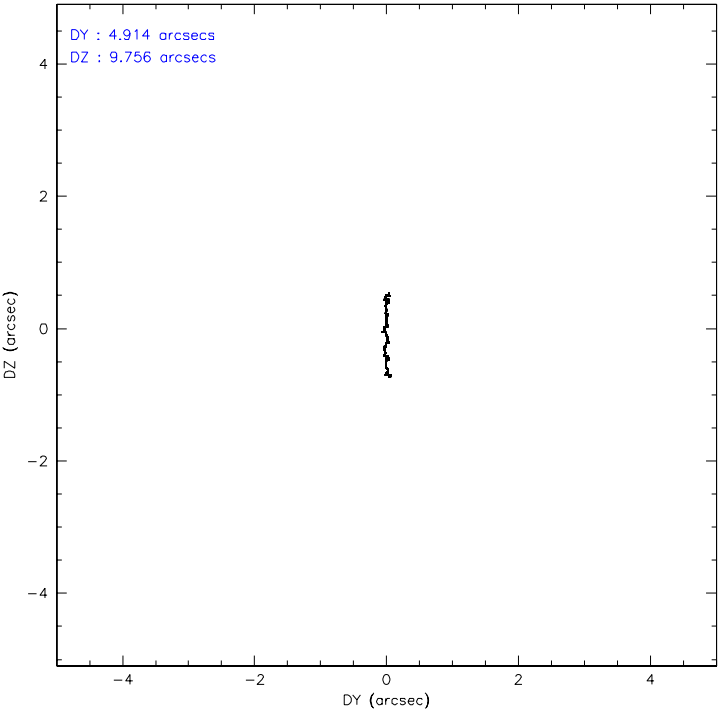
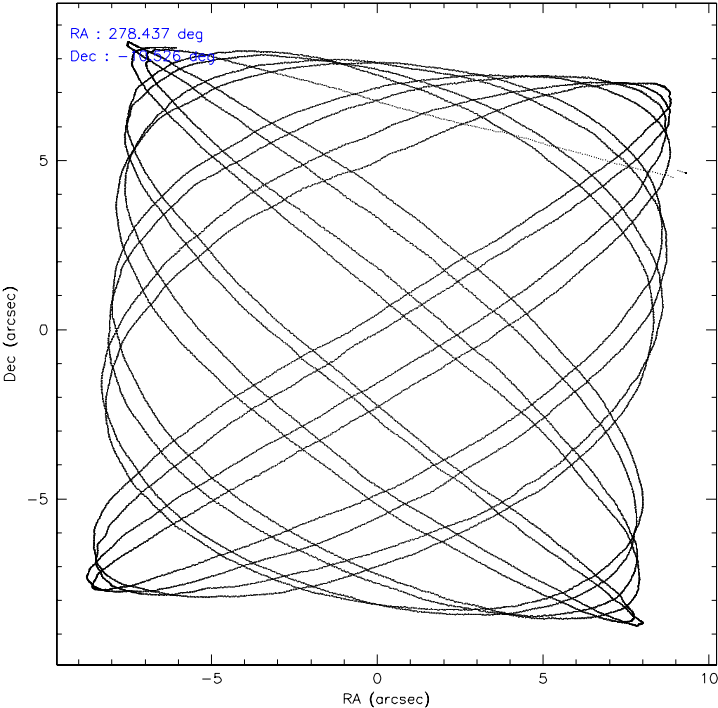
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	59105	58167	66067	90998	64246	58985
rejected events	52902	51522	59133	55112	57939	33032
rejected %	89%	88%	89%	60%	90%	56%

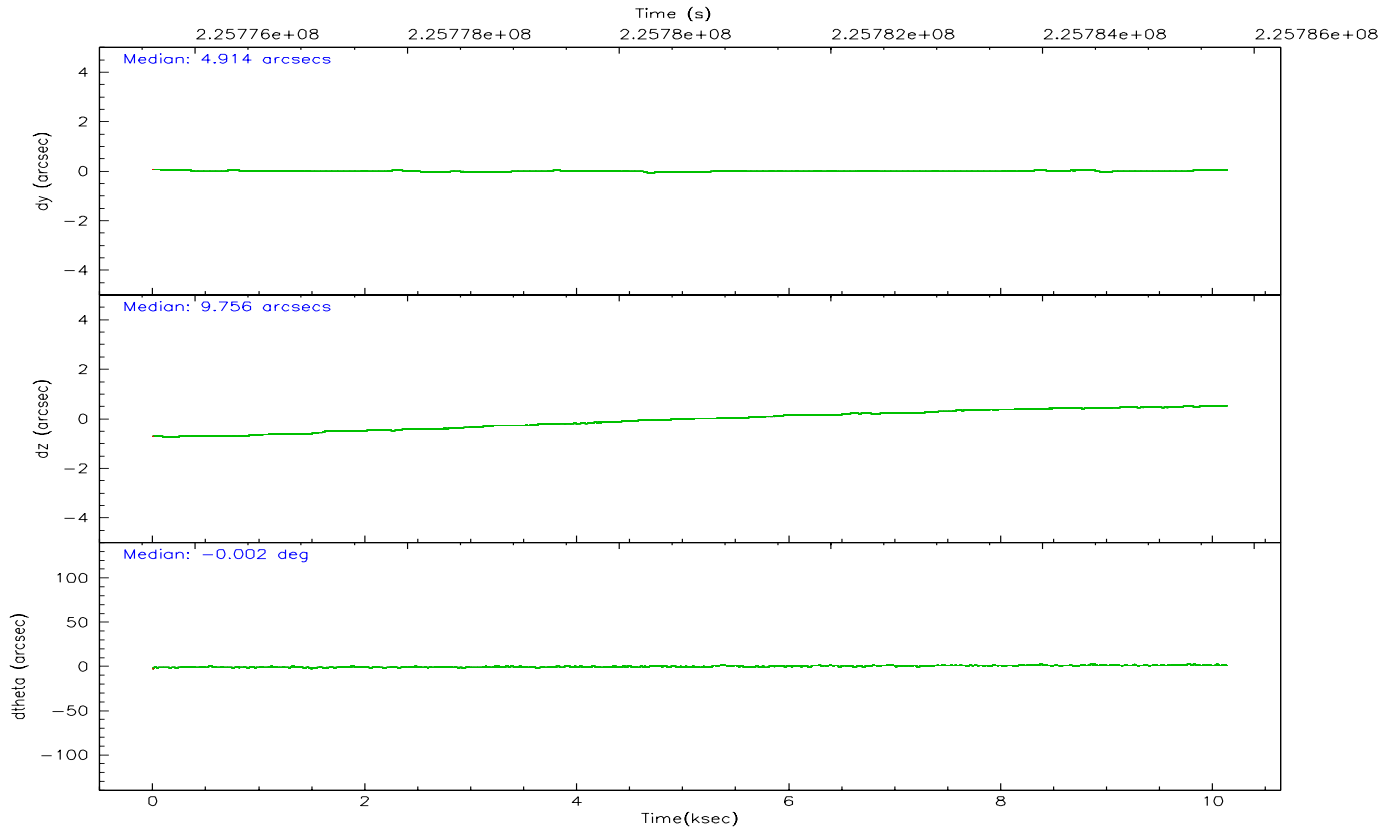
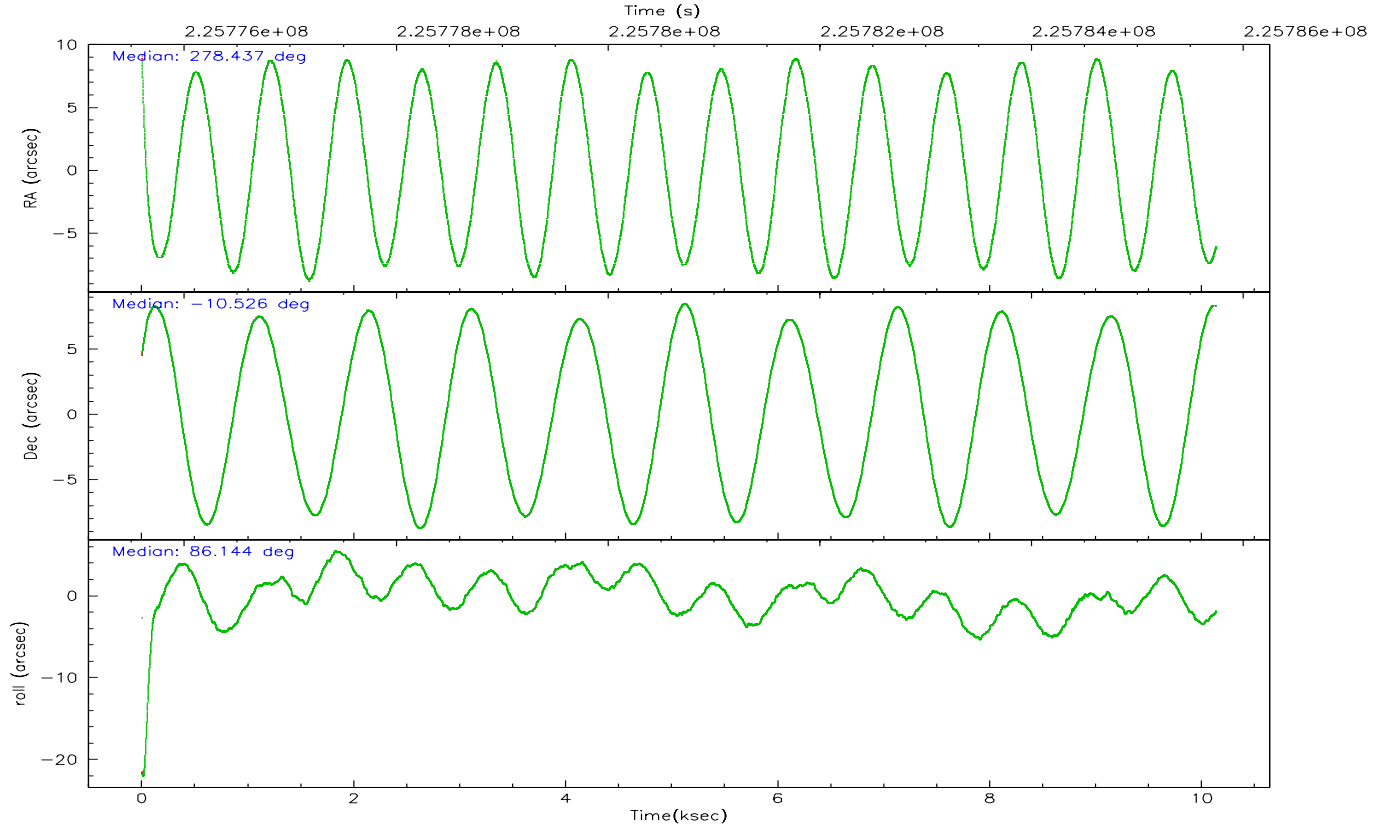
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2478	2676	3228	25376	2606	1784
	4%	4%	4%	27%	4%	3%
grade 1 events	22	24	35	286	31	29
	0%	0%	0%	0%	0%	0%
grade 2 events	1606	1502	1609	5057	1387	7114
	2%	2%	2%	5%	2%	12%
grade 3 events	697	846	710	1880	748	1743
	1%	1%	1%	2%	1%	2%
grade 4 events	646	783	725	1961	700	1678
	1%	1%	1%	2%	1%	2%
grade 5 events	1830	2042	1772	2148	2206	4771
	3%	3%	2%	2%	3%	8%
grade 6 events	1091	1321	1021	2479	1205	14995
	1%	2%	1%	2%	1%	25%
grade 7 events	50735	48973	56967	51811	55363	26871
	85%	84%	86%	56%	86%	45%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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	278.449371	278.4369637987066	Alternating exposures requested	N	N
Pointing Dec	-10.550322	-10.52576923671671	Primary exposure time	0.000000	3.2
Pointing Roll	85.936344	86.14272613369891			
Window start time	212976064.184000	212976064.184000			
Window stop time	228614464.184000	228614464.184000			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	225775737.184000	225774419.71858			
Observation start date	2005-02-26T03:27:53	2005-02-26T03:06:59			
Observation end time	225785737.184000	225785871.0191			
Observation end date	2005-02-26T06:14:33	2005-02-26T06:17:51			
Read mode	TIMED	TIMED			

2.3 Aspect





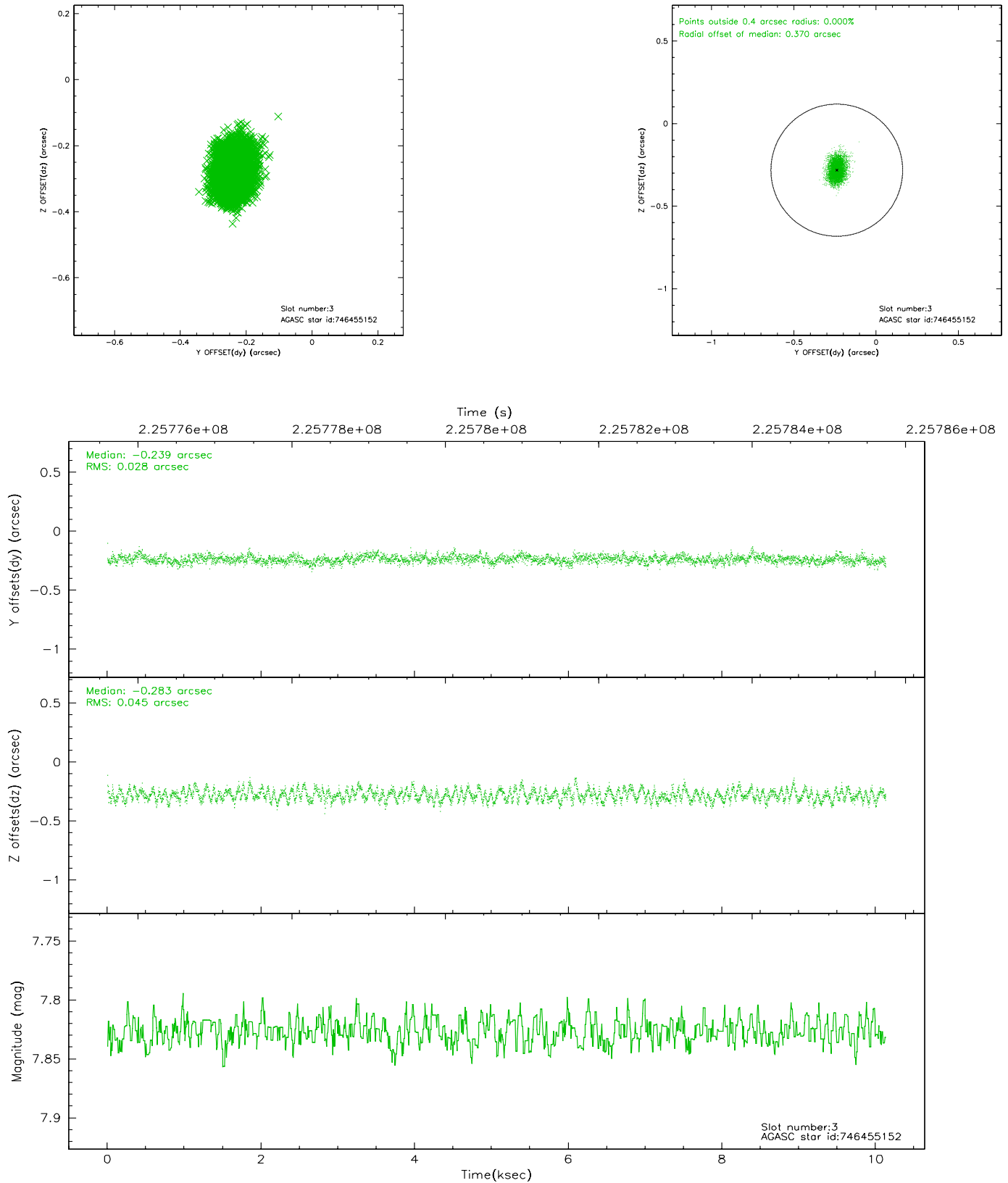
### Slot Statistics

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	2472	-0.005	0.051	0.016	0.025	0.000000	0.000000	934.82	-833.12
1	FID	ACIS-I-5	7.22	2472	-0.148	0.027	0.007	0.011	0.000000	0.000000	-1813.14	1064.09
2	FID	ACIS-I-6	7.25	2472	0.061	-0.007	0.016	0.027	0.000000	0.000000	399.86	1709.15
3	GUIDE	746455152	7.83	4944	-0.239	-0.283	0.057	0.092	278.447893	-9.976732	2059.51	151.29
4	GUIDE	746460272	8.93	4939	-0.043	0.081	0.069	0.113	278.847488	-10.152127	1529.74	-1305.62
5	GUIDE	746462392	8.52	4943	0.178	0.154	0.075	0.120	279.038421	-10.890715	-1076.90	-2164.93
6	GUIDE	746462456	8.39	4941	0.141	-0.020	0.058	0.094	278.652171	-10.530173	122.60	-711.47
7	GUIDE	746460328	9.83	4940	-0.038	0.074	0.117	0.193	278.603974	-9.898096	2380.79	-380.60

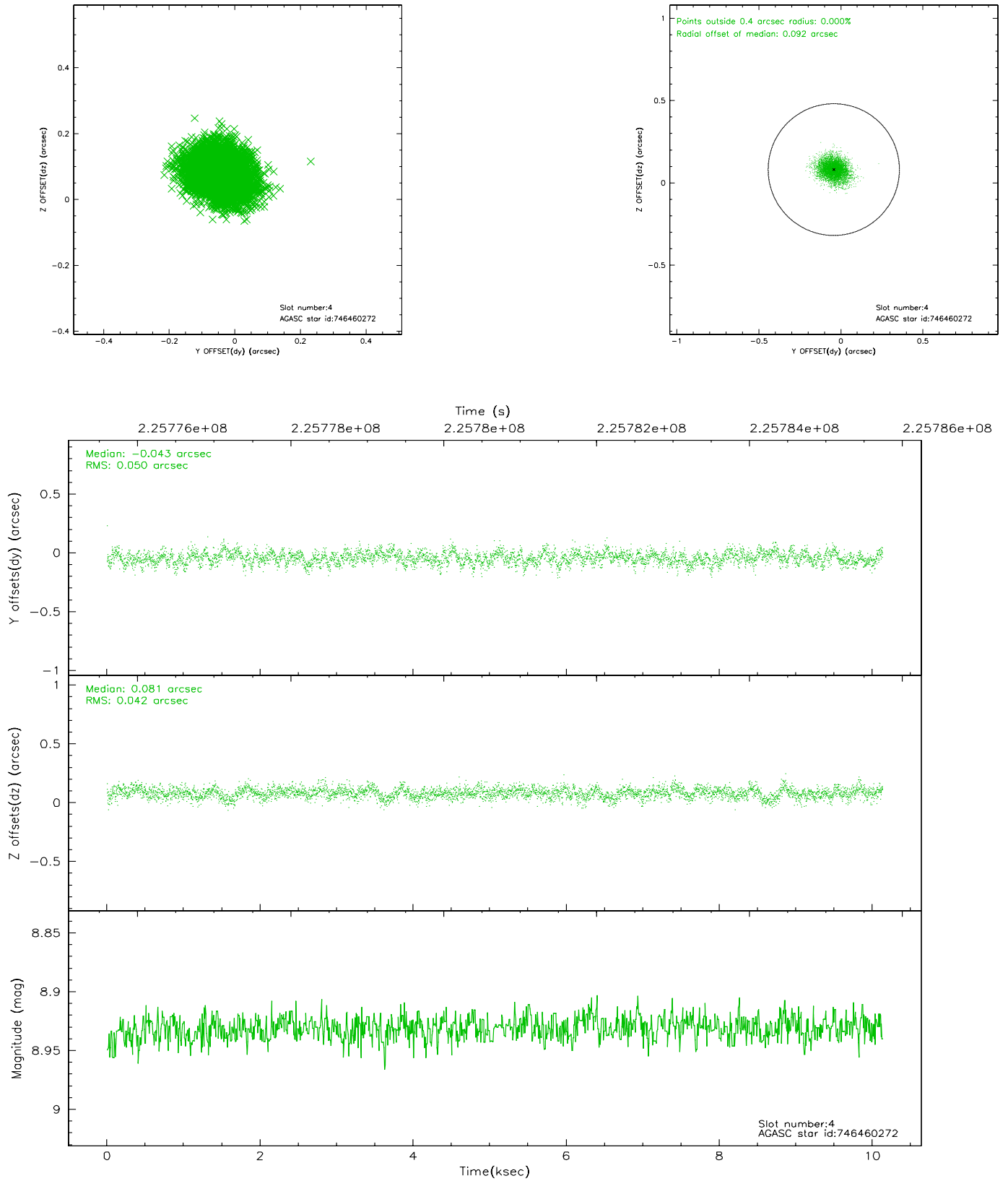


## 2.4 Star Slots

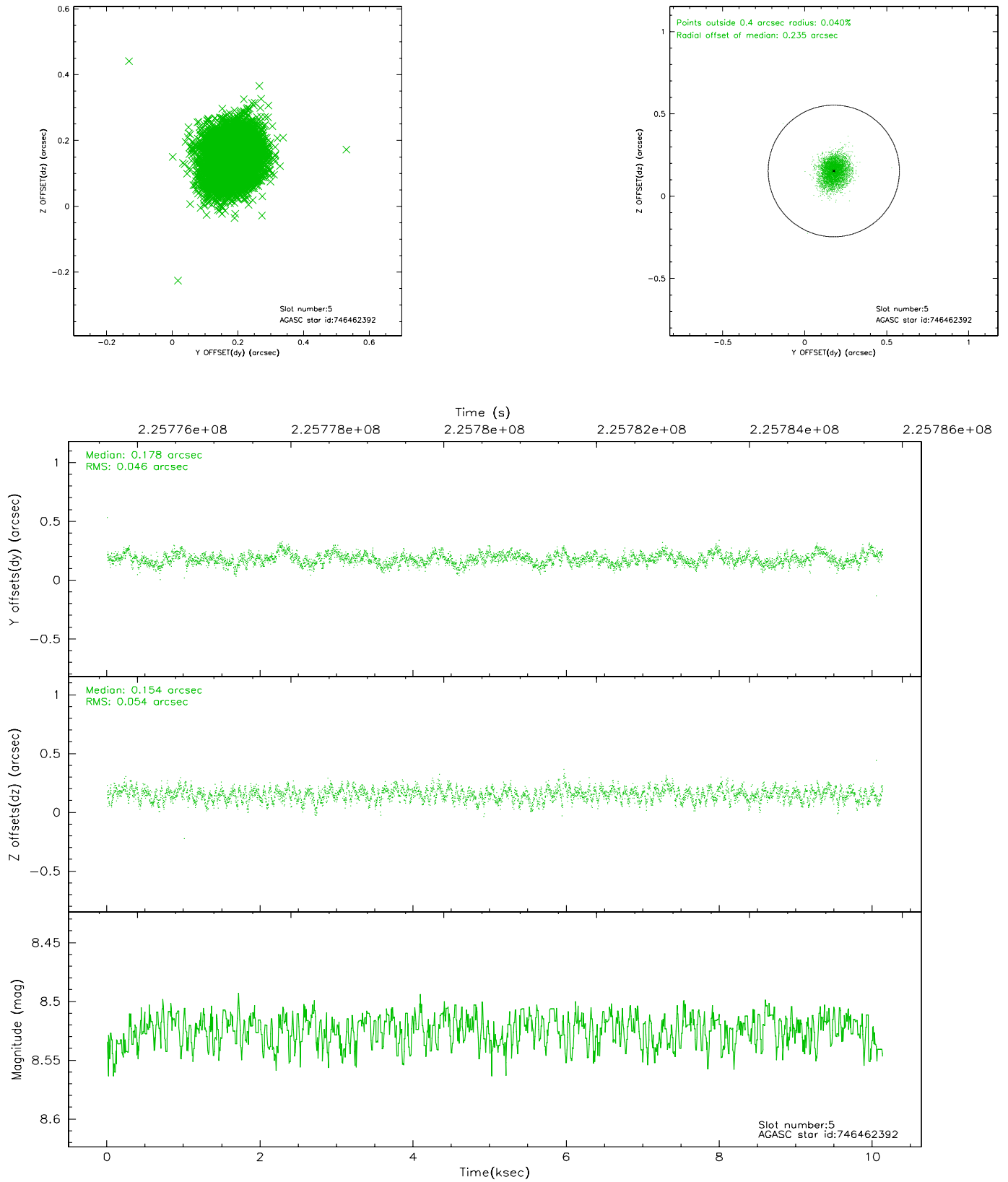
### 2.4.1 Slot 3



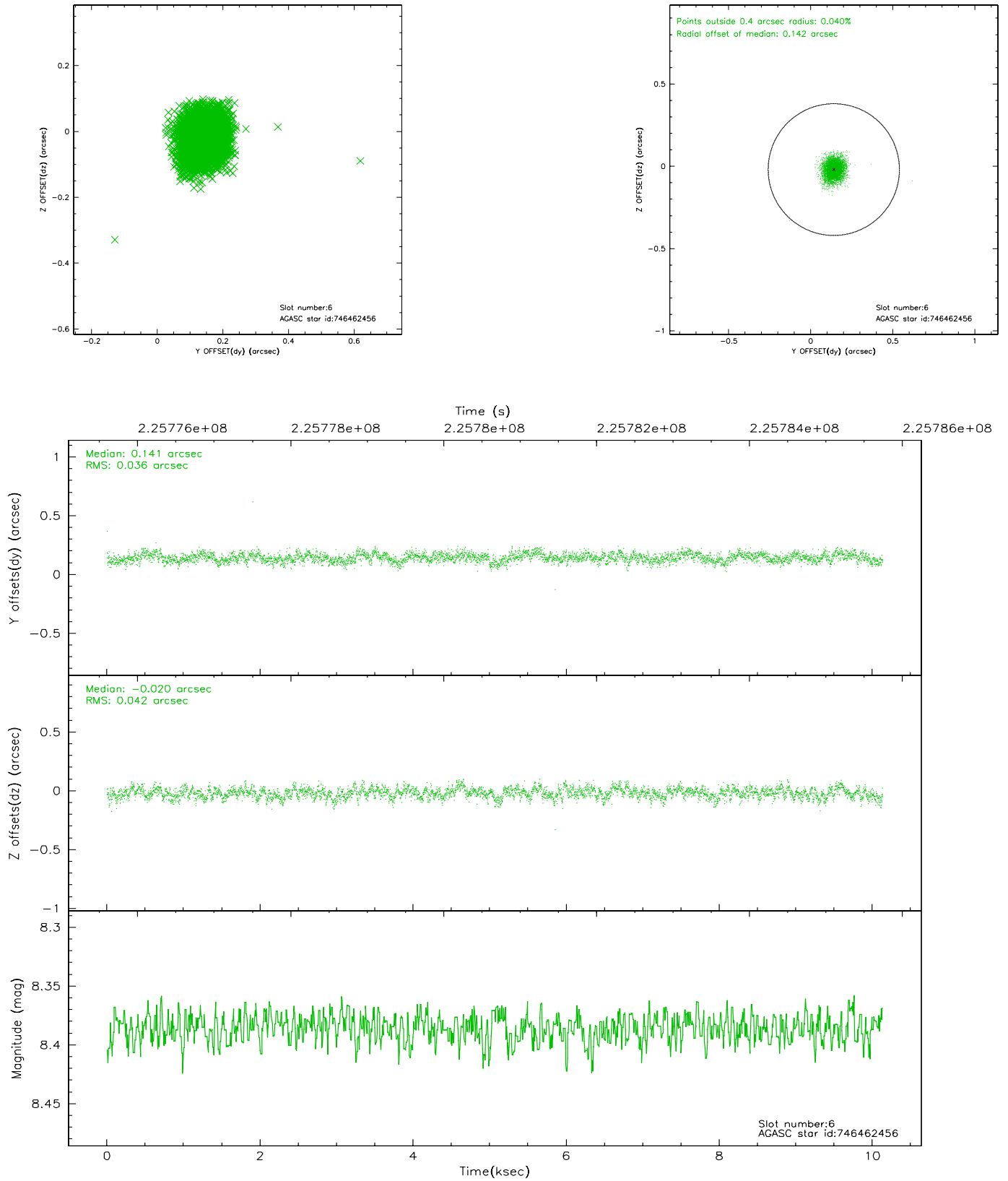
## 2.4.2 Slot 4



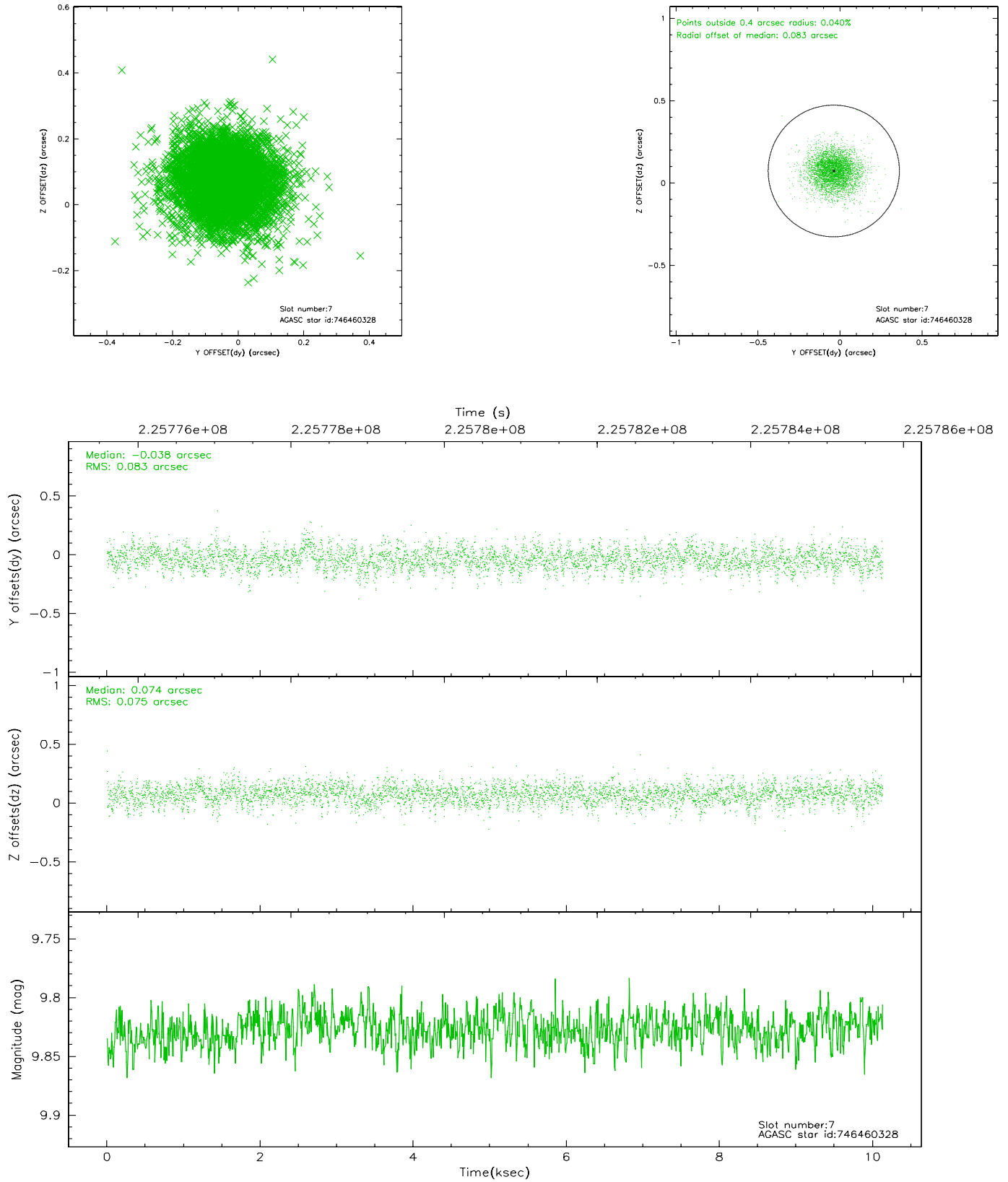
### 2.4.3 Slot 5



## 2.4.4 Slot 6

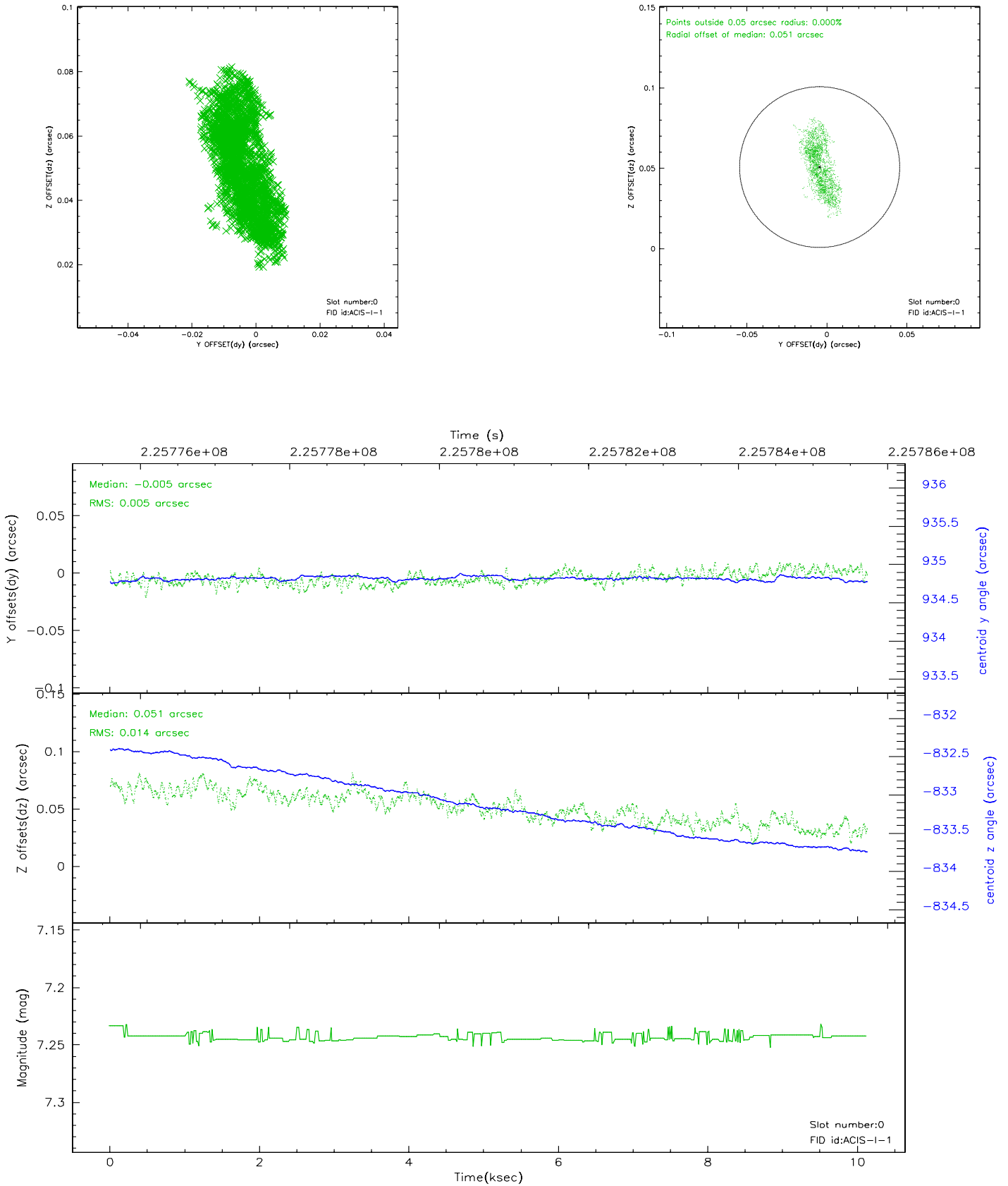


## 2.4.5 Slot 7

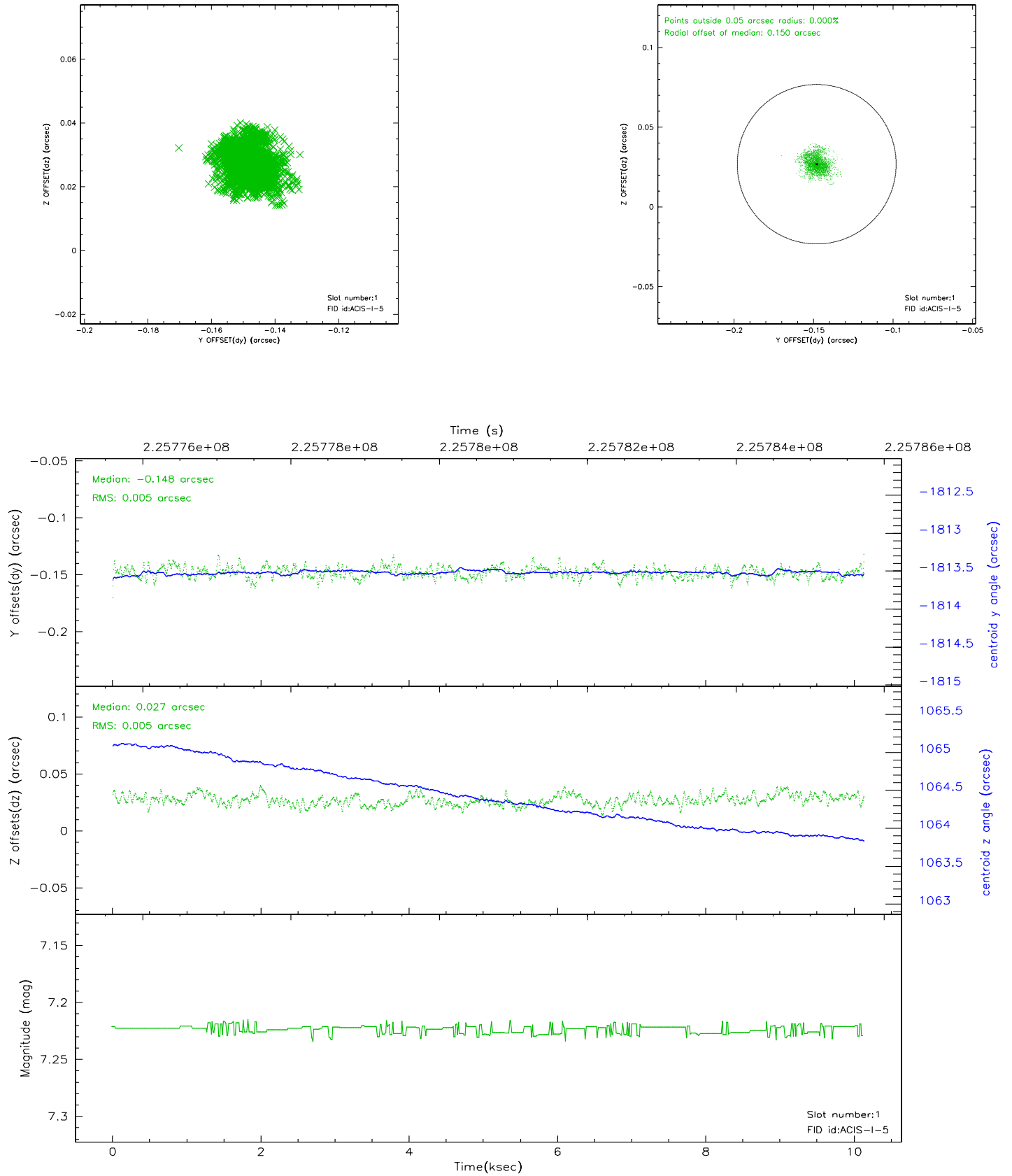


## 2.5 FID Slots

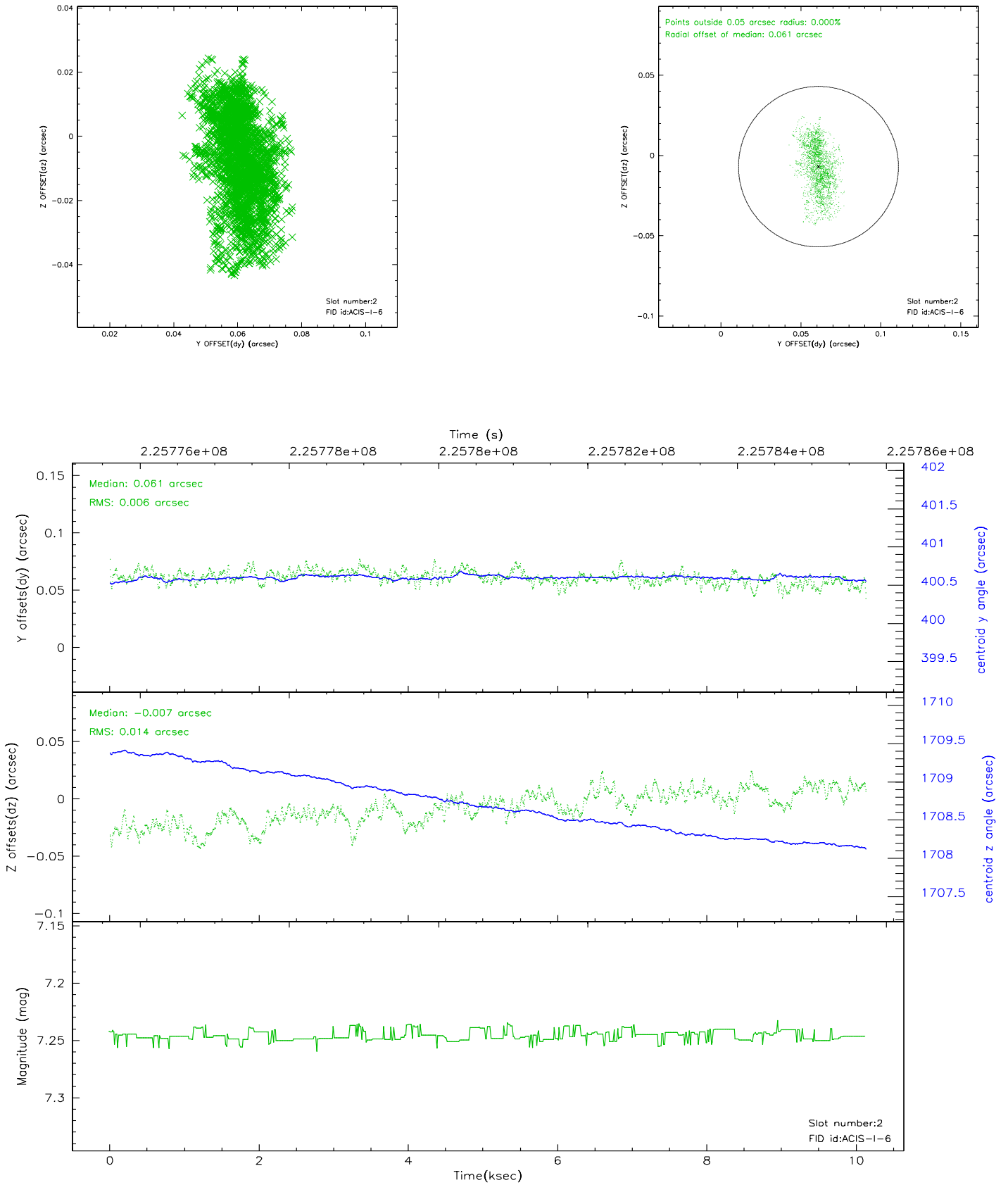
### 2.5.1 Slot 0



## 2.5.2 Slot 1

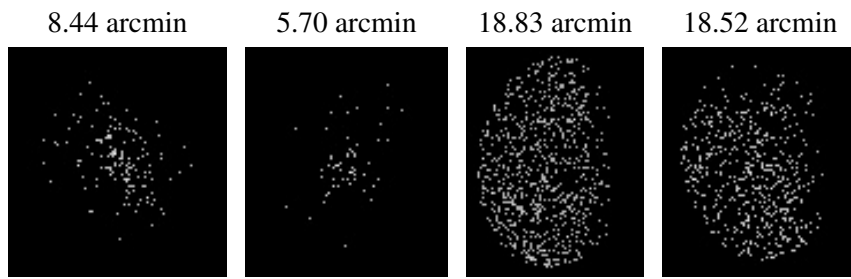


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.12799

### A.2 Comments

Window constraint met.