

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 3982 - L2 Version 001  
Chandra X-Ray Center

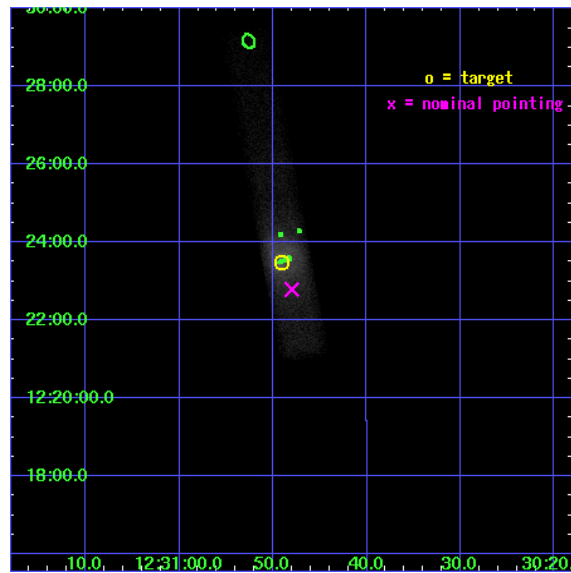
L2 Processing Date : Jul 10 2006

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>3</b>	<b>Point Sources</b>	<b>17</b>
<b>A</b>	<b>Summary</b>	<b>18</b>
A.1	Status . . . . .	18
A.2	Comments . . . . .	18

# 1 Front

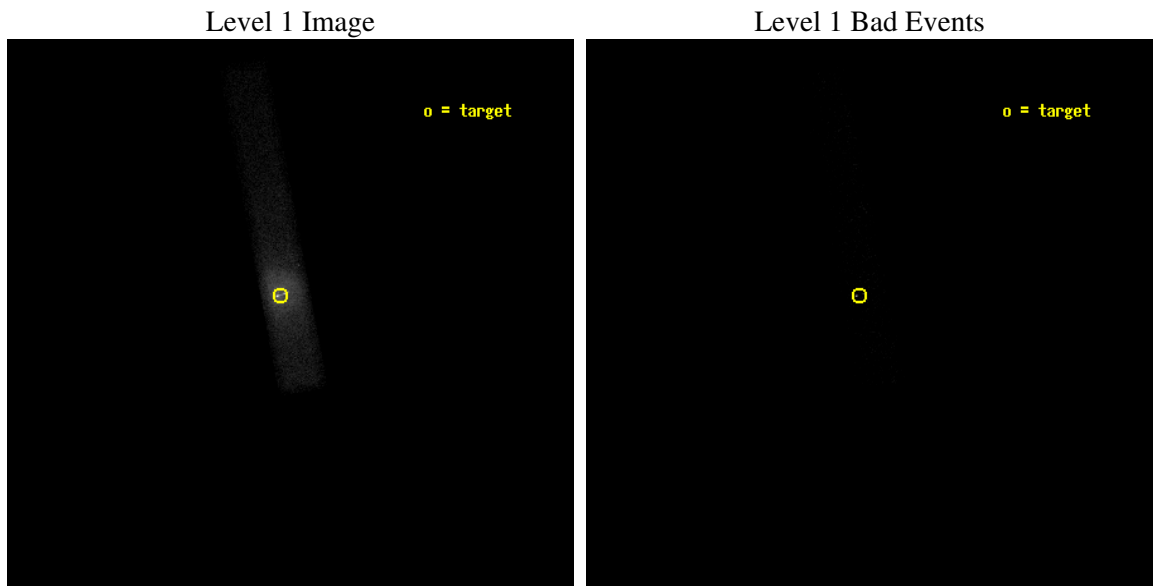
seq_num	700661
obs_id	3982
title	X-RAY VARIABILITY IN THE JET AND CORE OF M87
observer	Dr. Daniel Harris
object	M87
dtcycle	0
cycle	P
ra_targ	187.704167
dec_targ	12.391667
ra_nom	187.7000240108
dec_nom	12.379855988152
roll_nom	259.32402608076
revision	2
ontime	5337.6000795364
livetime	4840.9215305065
ontime7	5337.6000795364
l2events	57482



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldbver	3.2.2
date	2006-07-11T01:41:08
revision	2

sched_exp_time	5000.000000
ontime	5859.1430297792
ontime7	5859.1430297792
l1events	64442

### 2.1.4 Events

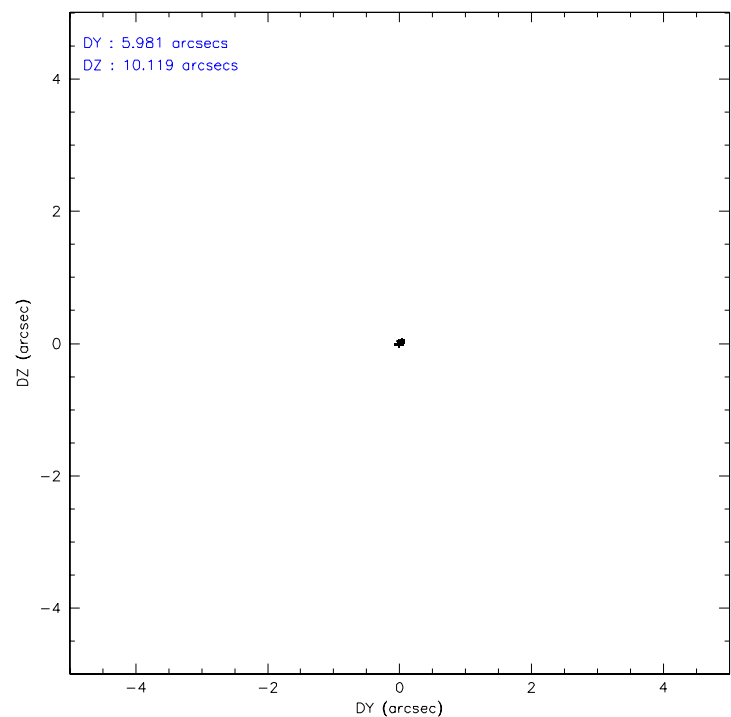
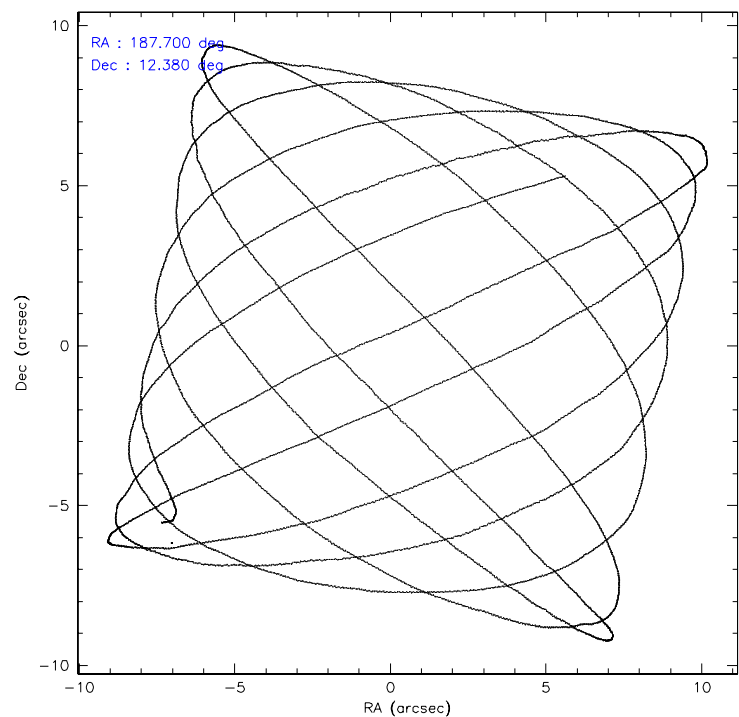
	<b>ccd 7</b>
level 1 events	64442
rejected events	6388
rejected %	9%

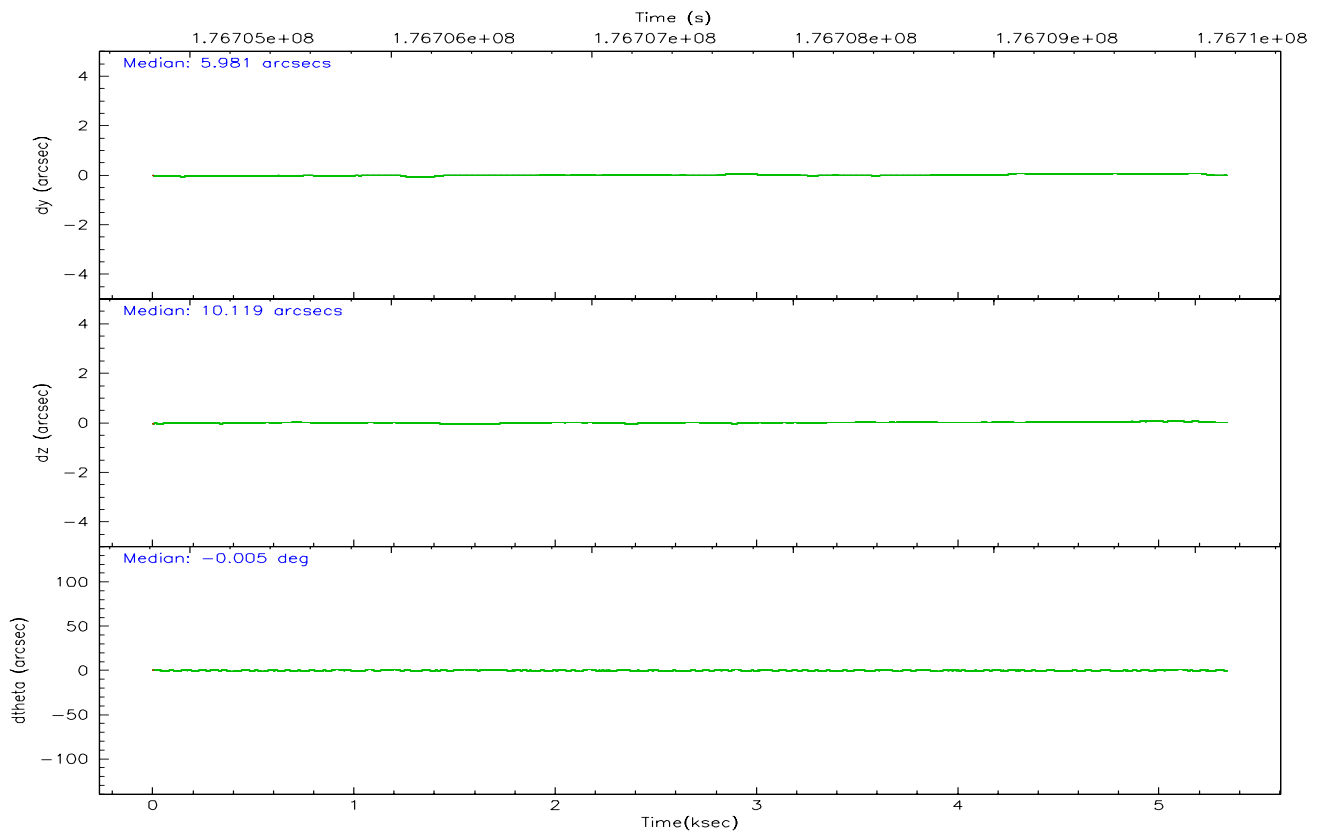
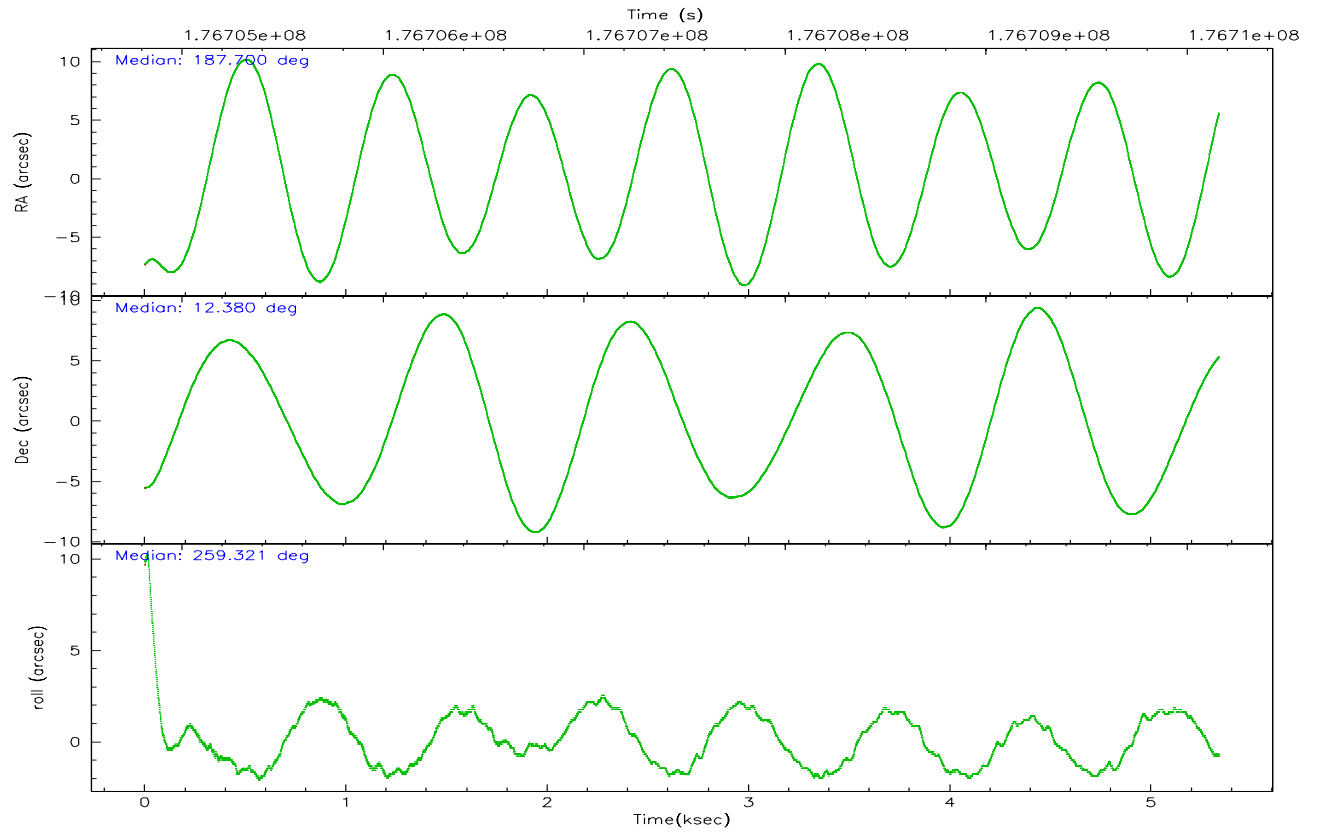
	<b>ccd 7</b>
grade 0 events	18482
	28%
grade 1 events	137
	0%
grade 2 events	15923
	24%
grade 3 events	6798
	10%
grade 4 events	6536
	10%
grade 5 events	1078
	1%
grade 6 events	11961
	18%
grade 7 events	3527
	5%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	1/8	1/8
Pointing RA	187.690524	187.700024010804	Subarray start row	0	449
Pointing Dec	12.405414	12.37985598815213	Subarray row count	1024	128
Pointing Roll	259.169424	259.3240260807572	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	0.4
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	176705156.184000	176704117.97999			
Observation start date	2003-08-08T04:44:52	2003-08-08T04:28:37			
Observation end time	176710156.184000	176711057.23029			
Observation end date	2003-08-08T06:08:12	2003-08-08T06:24:17			
Read mode	TIMED	TIMED			

2.3 Aspect





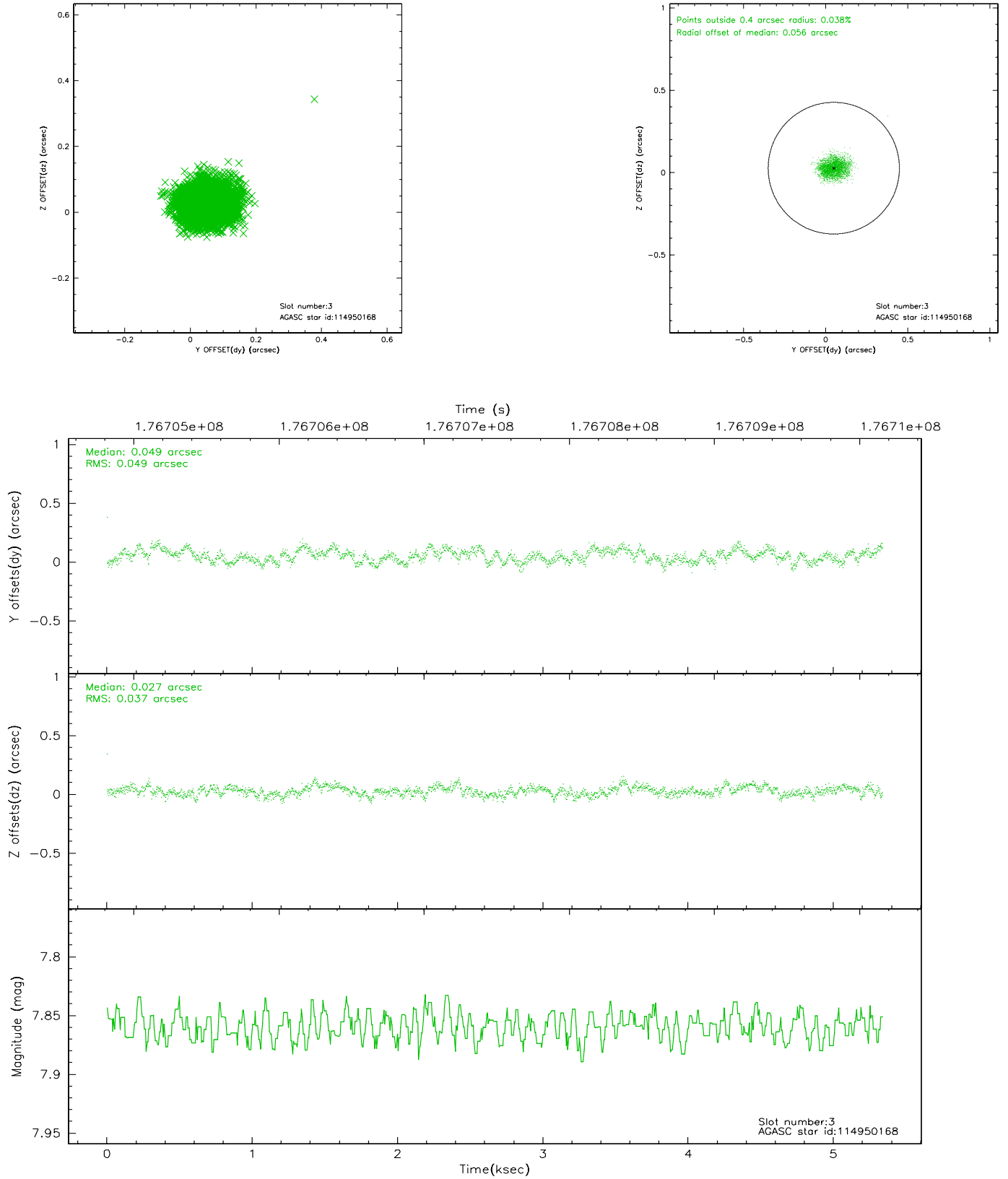
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1303	-0.055	-0.007	0.006	0.011	0.000000	0.000000	-758.73	-1731.39
1	FID	ACIS-S-4	7.20	1302	0.044	0.028	0.005	0.009	0.000000	0.000000	2154.10	176.00
2	FID	ACIS-S-5	7.23	1303	-0.020	-0.013	0.006	0.010	0.000000	0.000000	-1810.12	170.86
3	GUIDE	114950168	7.86	2604	0.049	0.027	0.066	0.101	187.143398	12.117441	1378.76	-1696.48
4	GUIDE	114950584	9.19	2602	0.068	0.194	0.124	0.185	187.487323	11.827248	2179.60	-312.21
5	GUIDE	114952792	9.50	2602	0.009	-0.059	0.092	0.153	187.070263	12.344747	623.45	-2101.88
6	GUIDE	114955056	8.32	2605	0.137	-0.065	0.066	0.108	187.914001	12.127854	833.98	959.83
7	GUIDE	115348424	9.51	2604	-0.265	-0.100	0.094	0.150	187.199498	13.087929	-2090.81	-2152.61

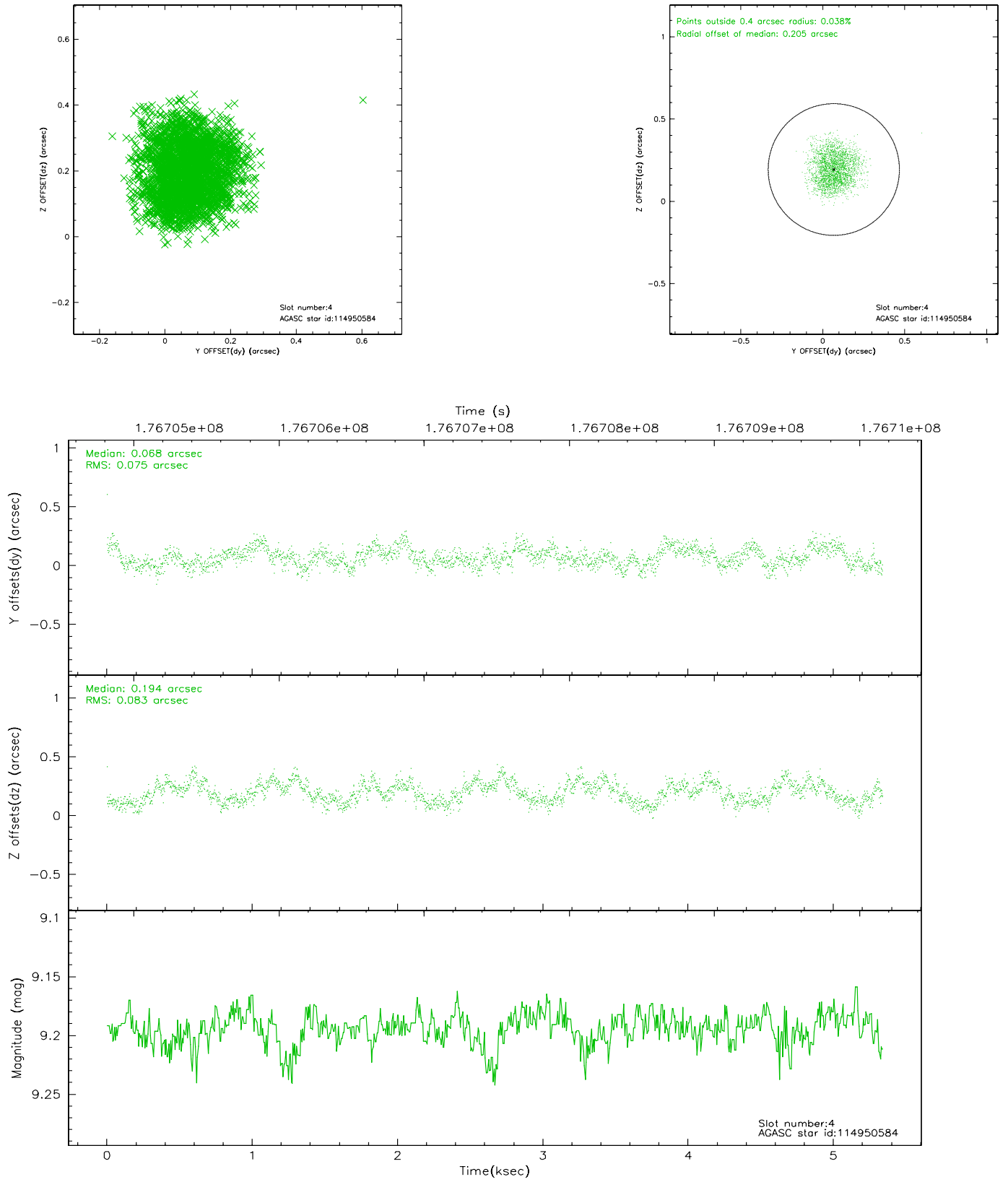


## 2.4 Star Slots

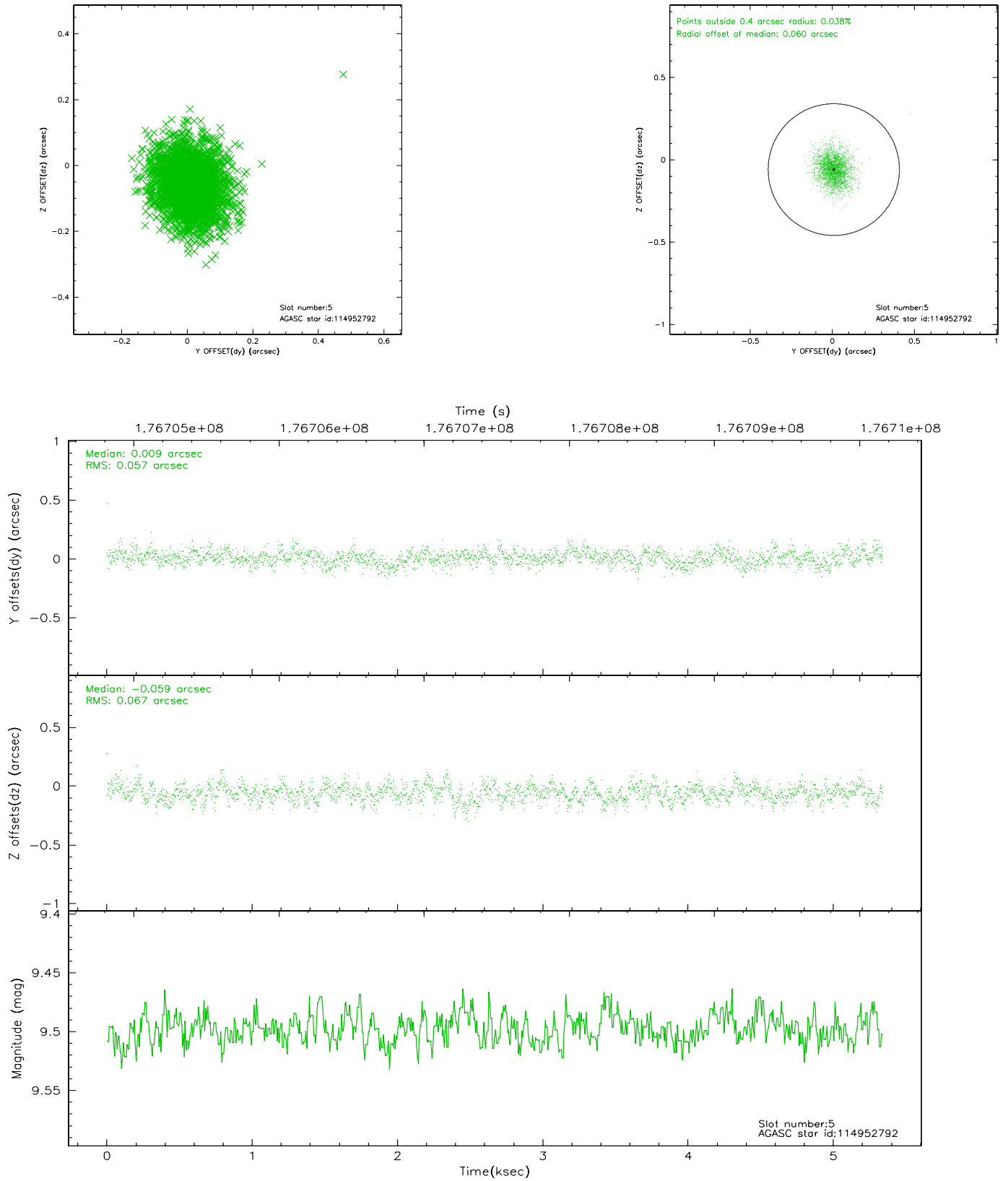
### 2.4.1 Slot 3



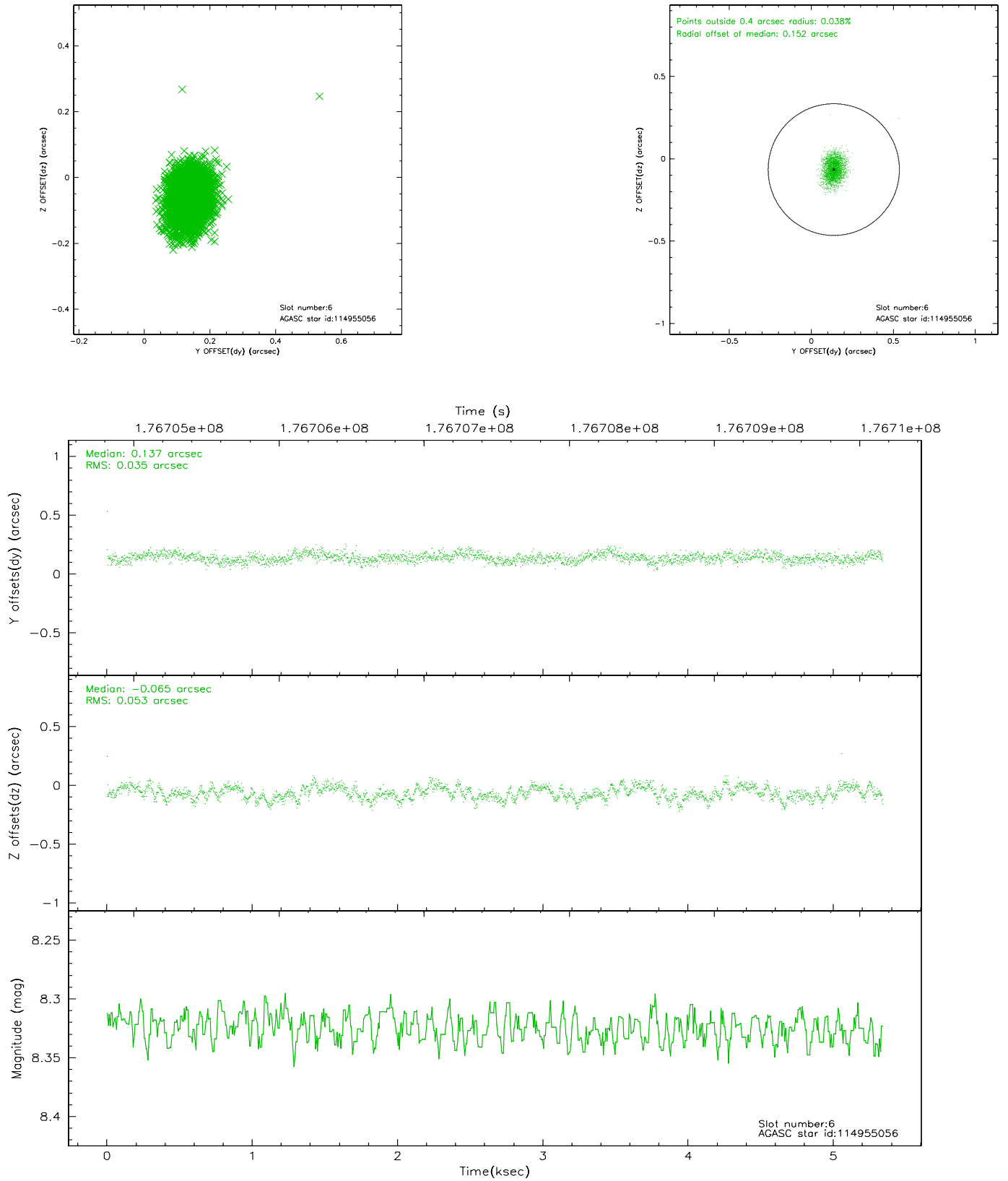
## 2.4.2 Slot 4



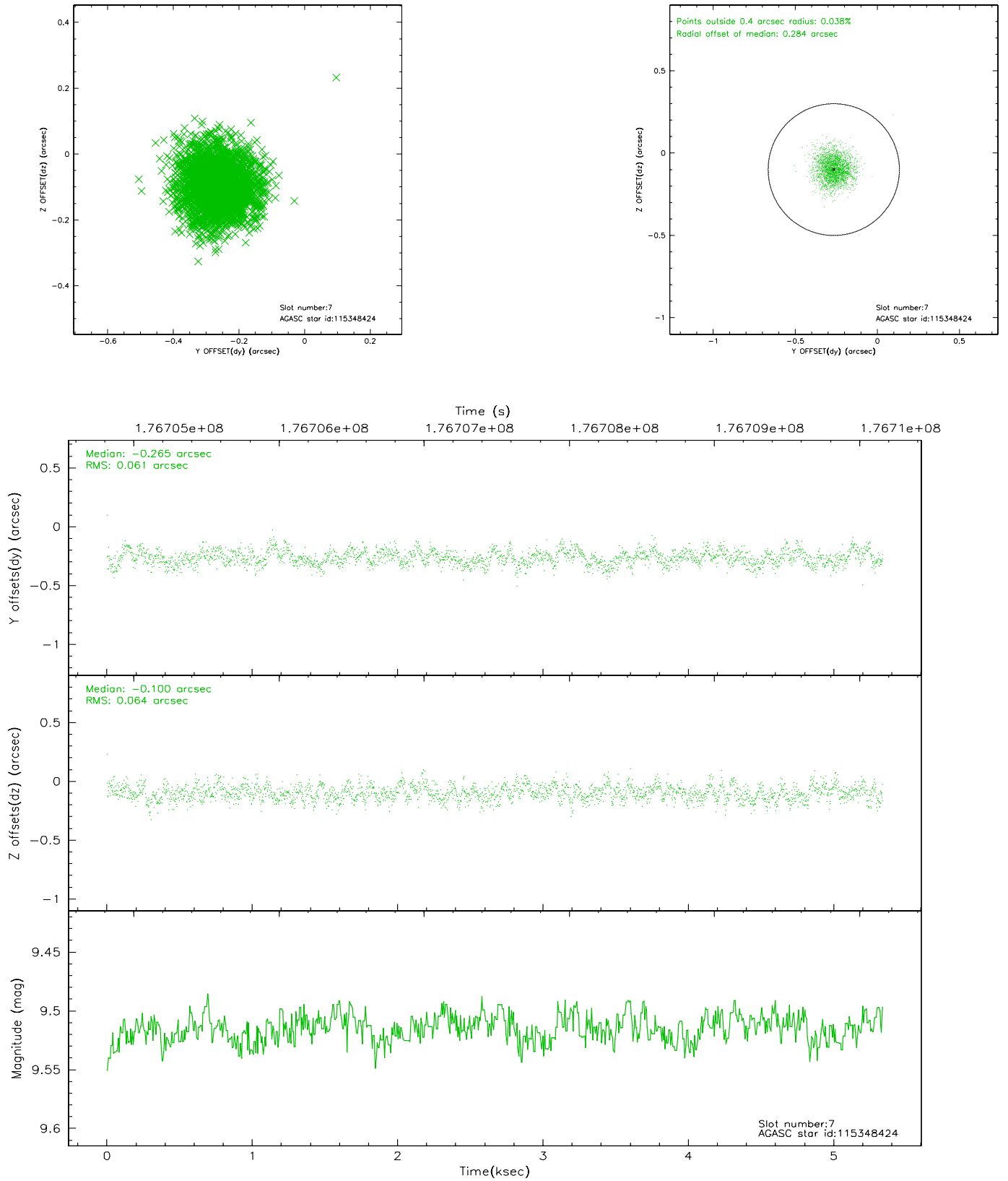
### 2.4.3 Slot 5



## 2.4.4 Slot 6

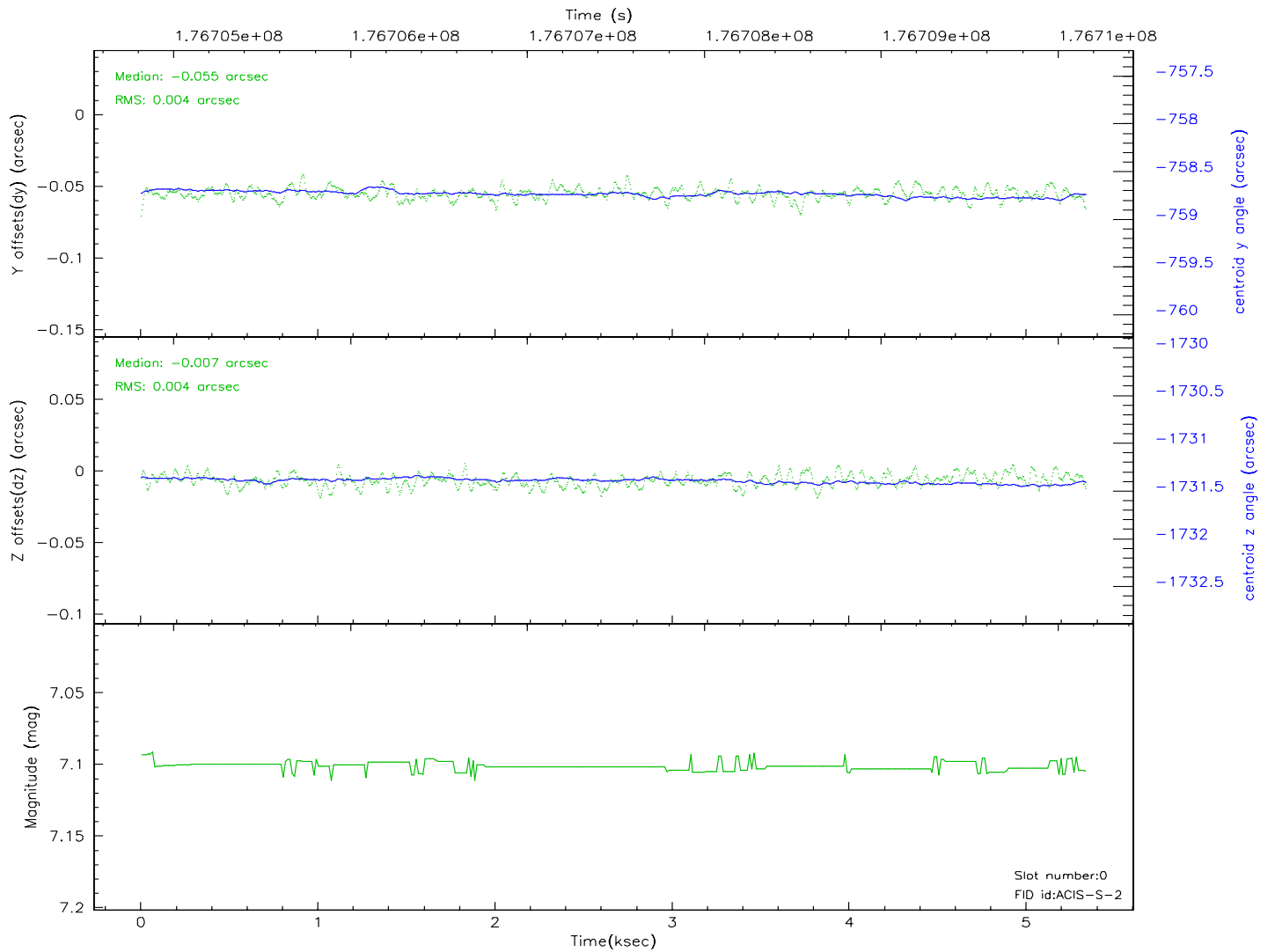
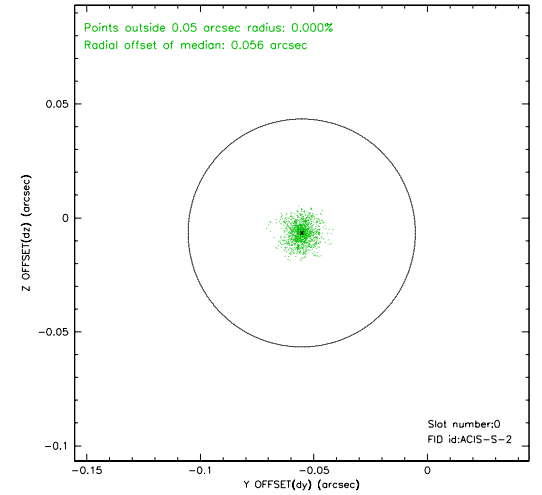
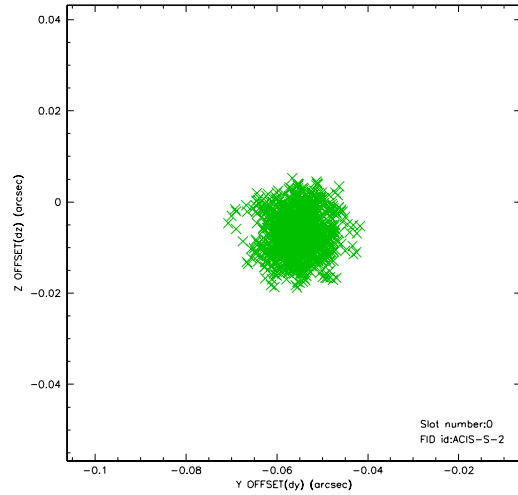


## 2.4.5 Slot 7

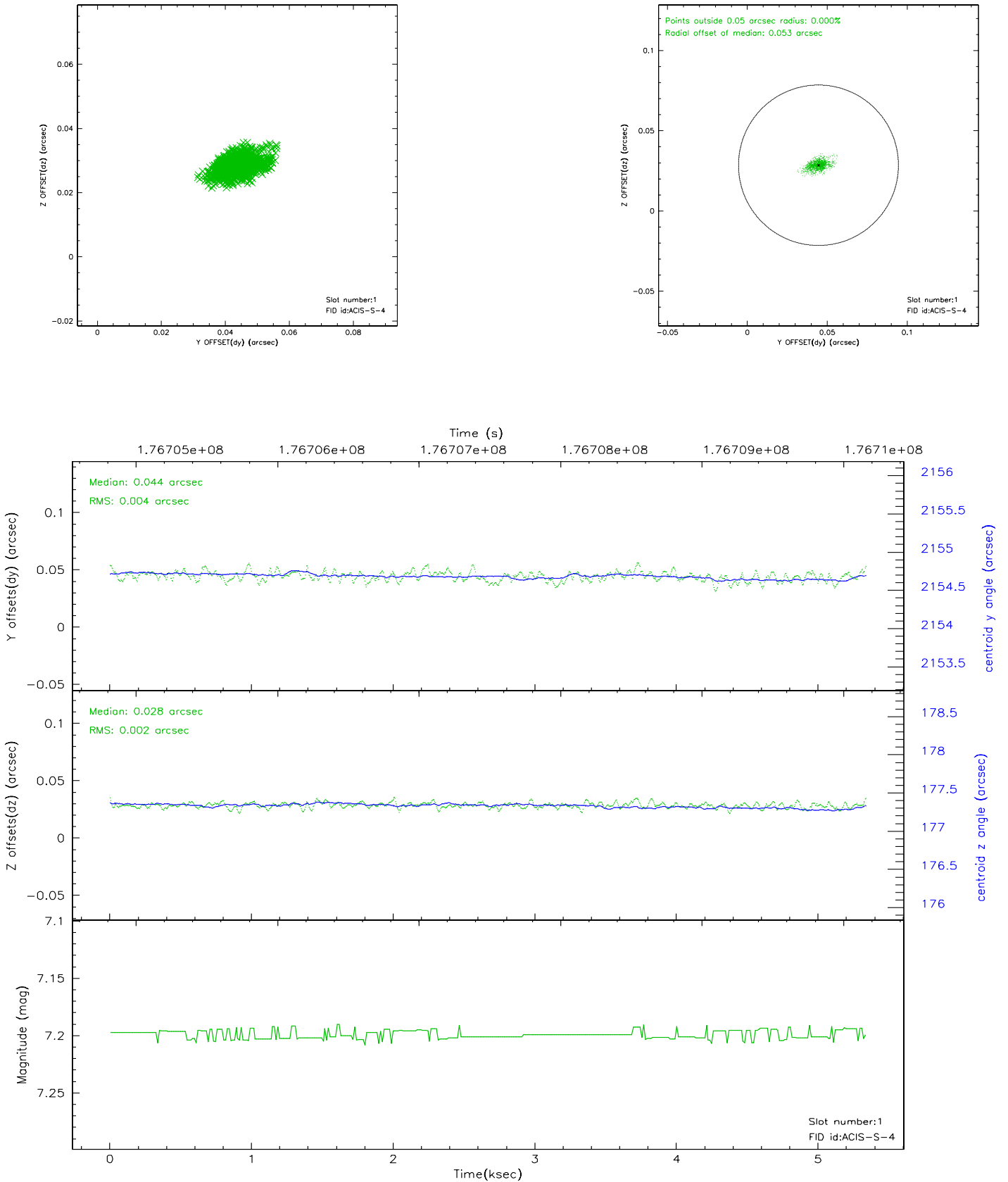


## 2.5 FID Slots

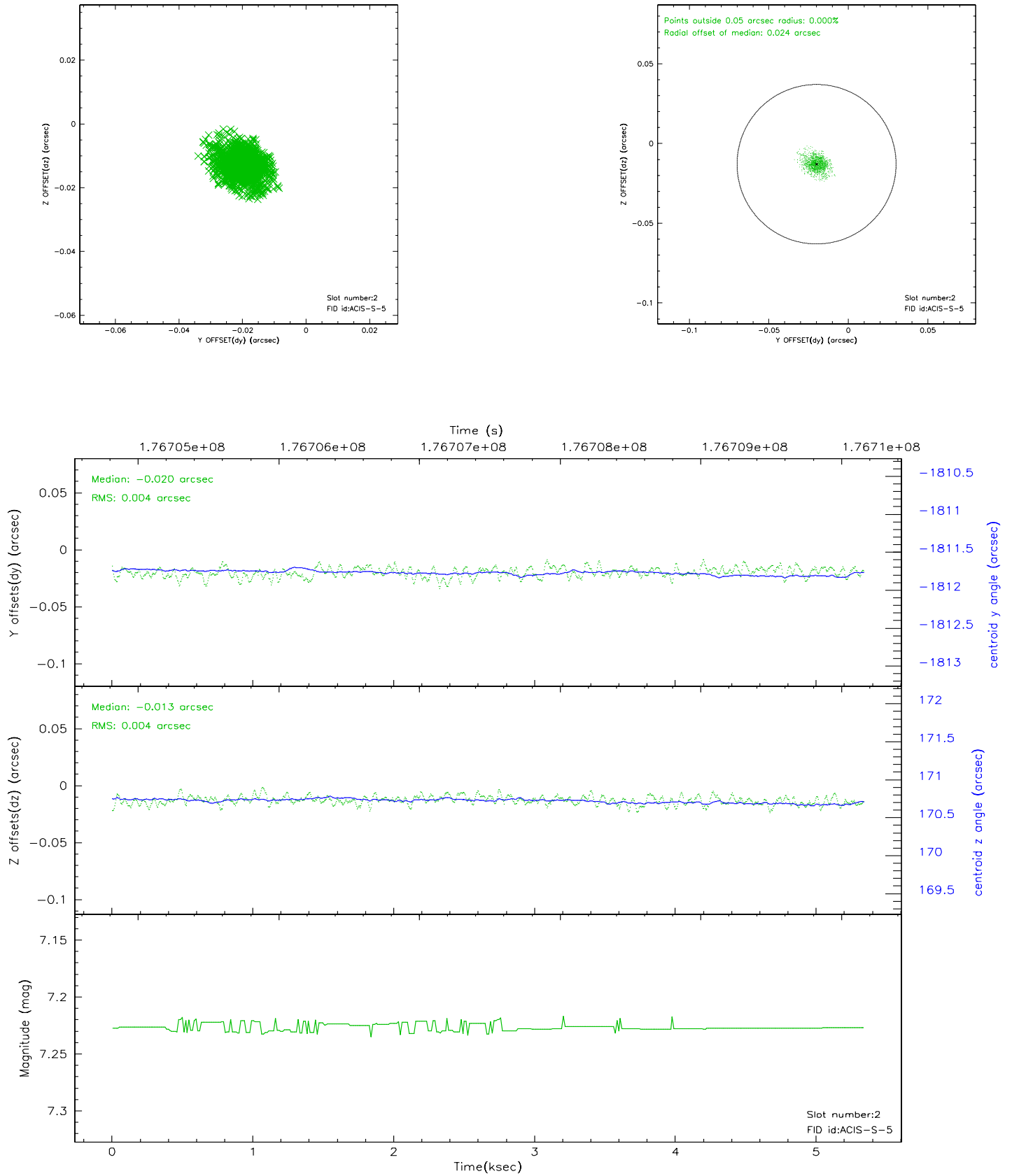
### 2.5.1 Slot 0



## 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	5.337

## A.2 Comments

Monitor constraint met.