

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5342 - L2 Version 3  
Chandra X-Ray Center

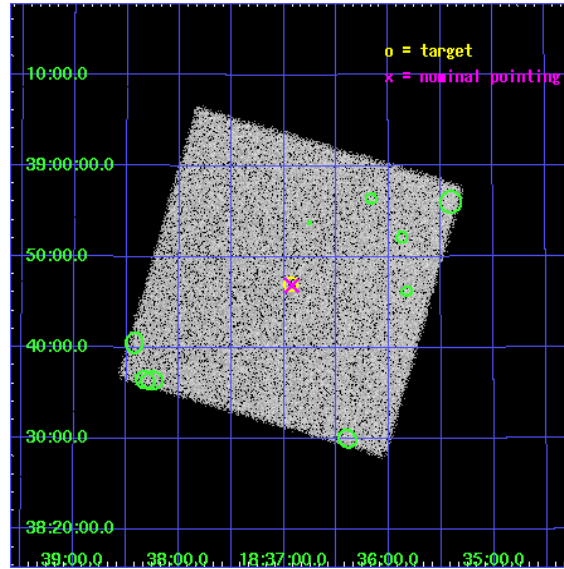
L2 Processing Date : Nov 23 2007

## 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	Parameters . . . . .	4
2.1.3	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

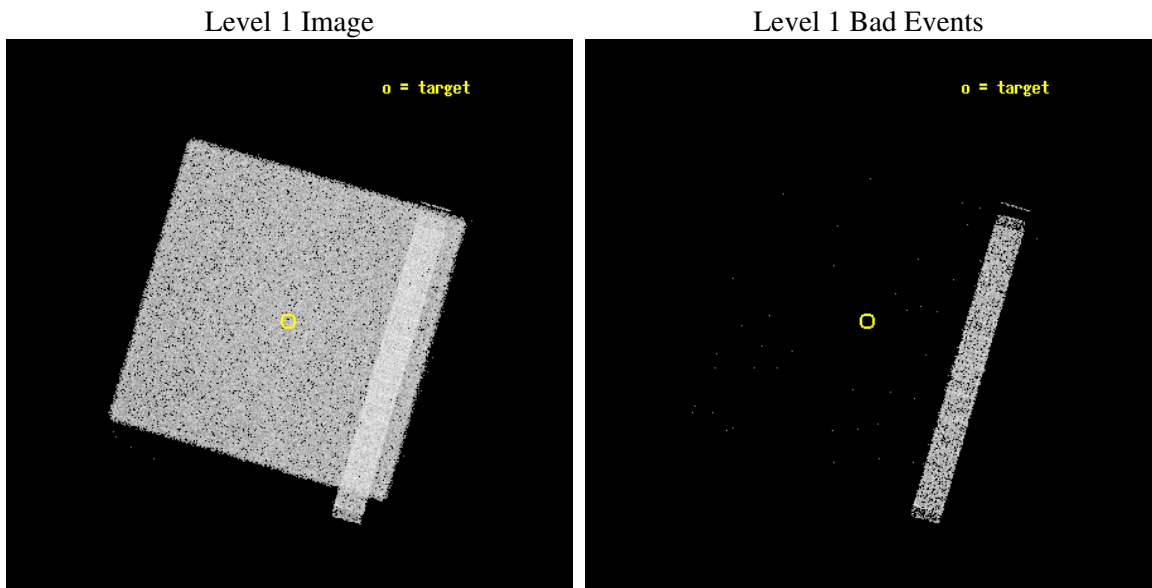
seq_num	290439
obs_id	5342
title	Monitoring the health of the HRC UV Ion shield
observer	Dr. CXC Calibration
object	Vega
ra_targ	279.235
dec_targ	38.783778
ra_nom	279.23095260025
dec_nom	38.781302523127
roll_nom	241.38267505358
revision	3
ontime	3160.3313908279
livetime	3139.3378325978
l2events	108945



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	2
ascdsver	7.6.11.2
caldbver	3.4.1
date	2007-11-24T00:16:05
revision	3

sched_exp_time	3000.000000
ontime	3160.3313908279
l1events	233534

### 2.1.3 Events

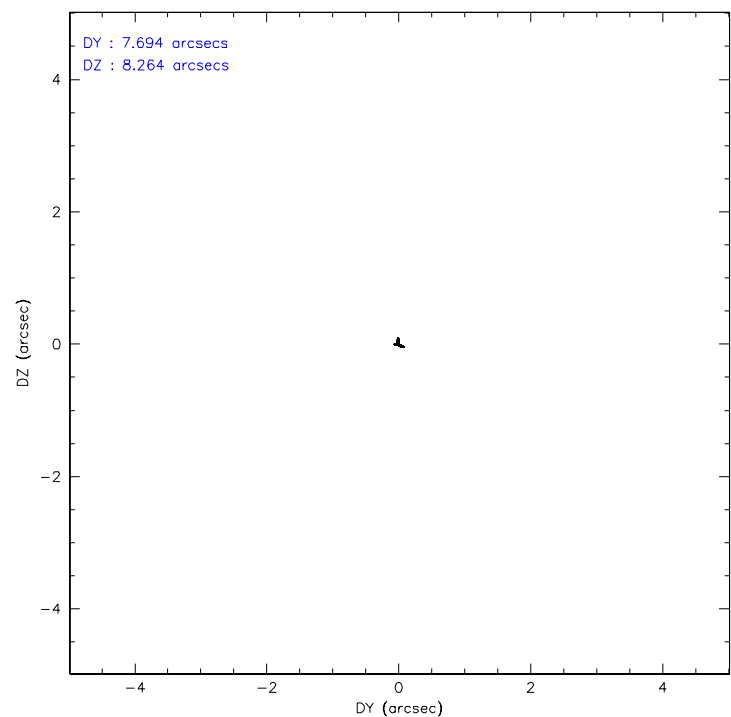
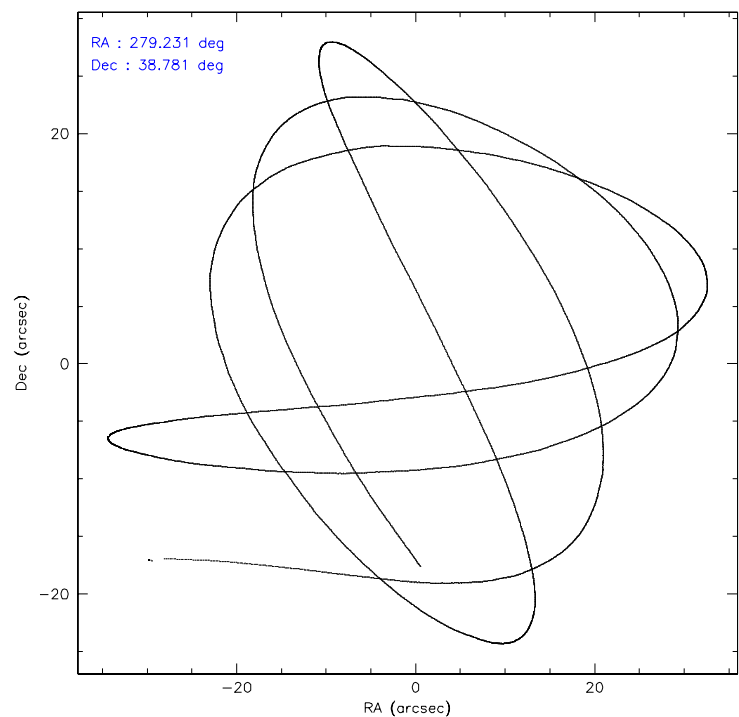
#### Level 1 Events

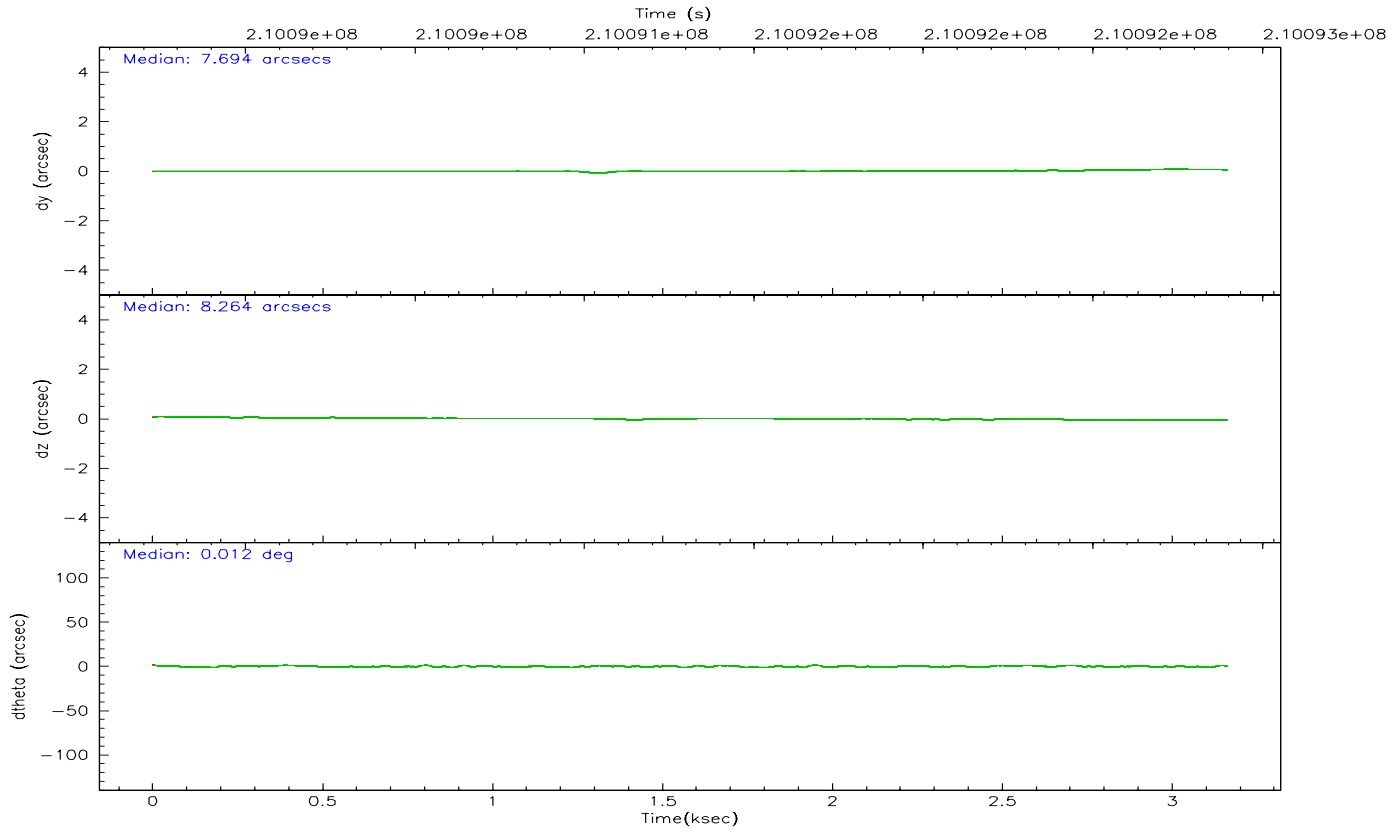
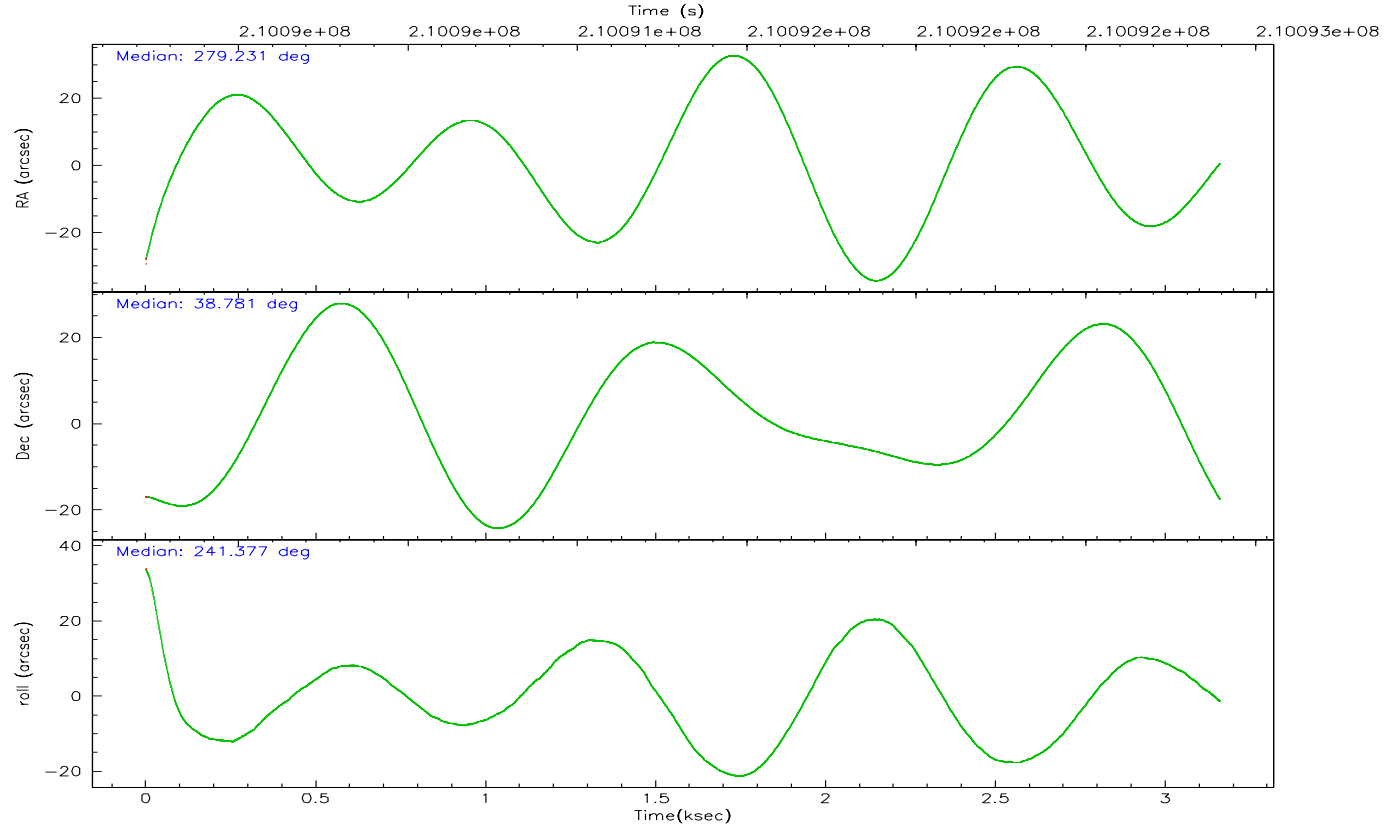
	<b>segment 0</b>
level 1 events	233534
rejected events	70601
rejected %	30%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	279.229185	279.230952600245			
Pointing Dec	38.808254	38.78130252312747			
Pointing Roll	241.479186	241.3826750535846			
Window start time	207705664.184000	207705664.184000			
Window stop time	210384004.184000	210384004.184000			
SIM focus pos (mm)	-1.040293	-1.038866356238299			
SIM defocus (mm)	0	0.001426264420575141			
SIM translation stage pos (mm)	126.985494	126.9829799899862			
SIM translation stage offset (mm)	0	0.002508901615314585			
Observation start time	210089891.184000	210088814.28891			
Observation start date	2004-08-28T14:17:07	2004-08-28T14:00:14			
Observation end time	210092891.184000	210093907.51413			
Observation end date	2004-08-28T15:07:07	2004-08-28T15:25:07			

2.3 Aspect



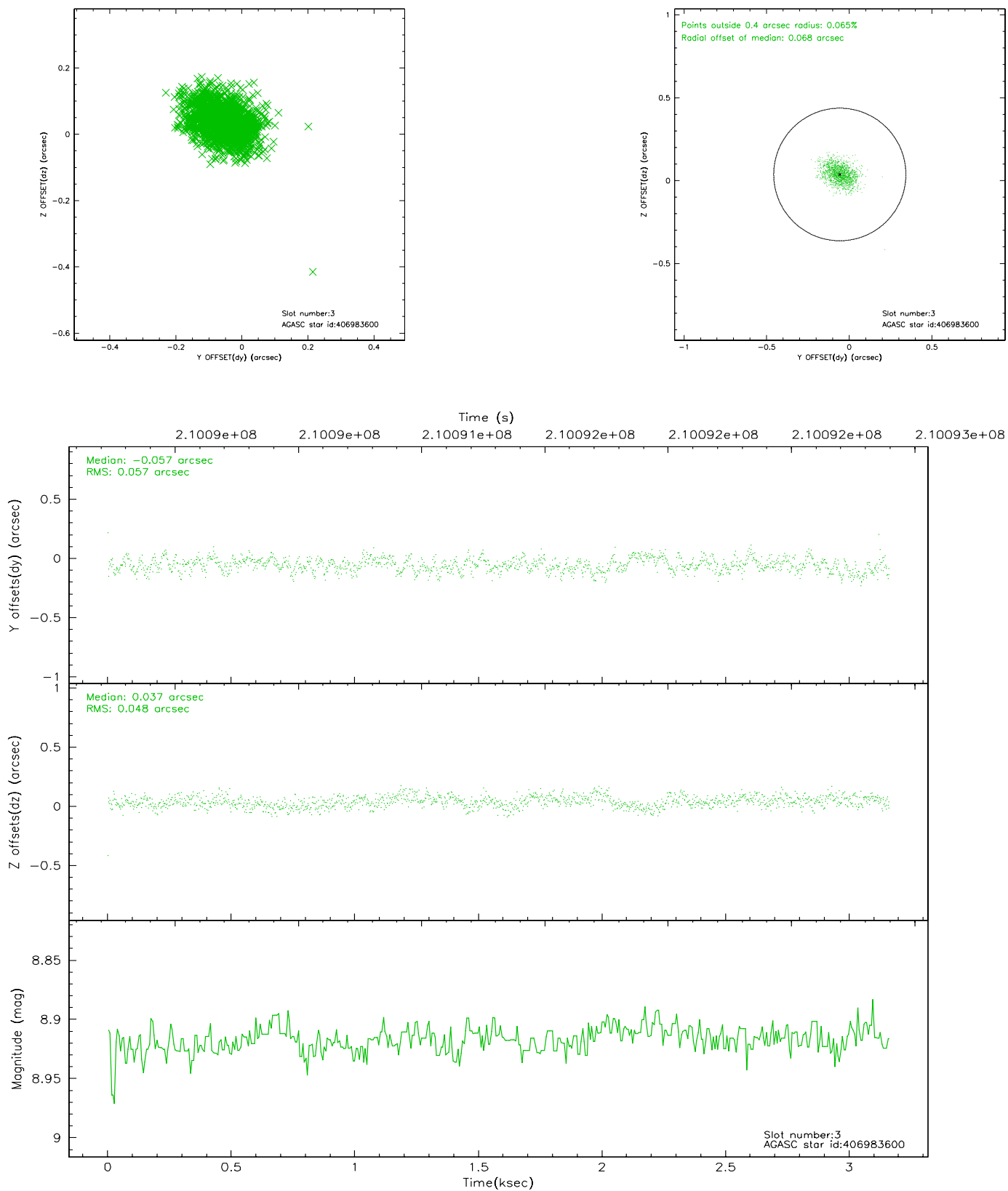


### Slot Statistics

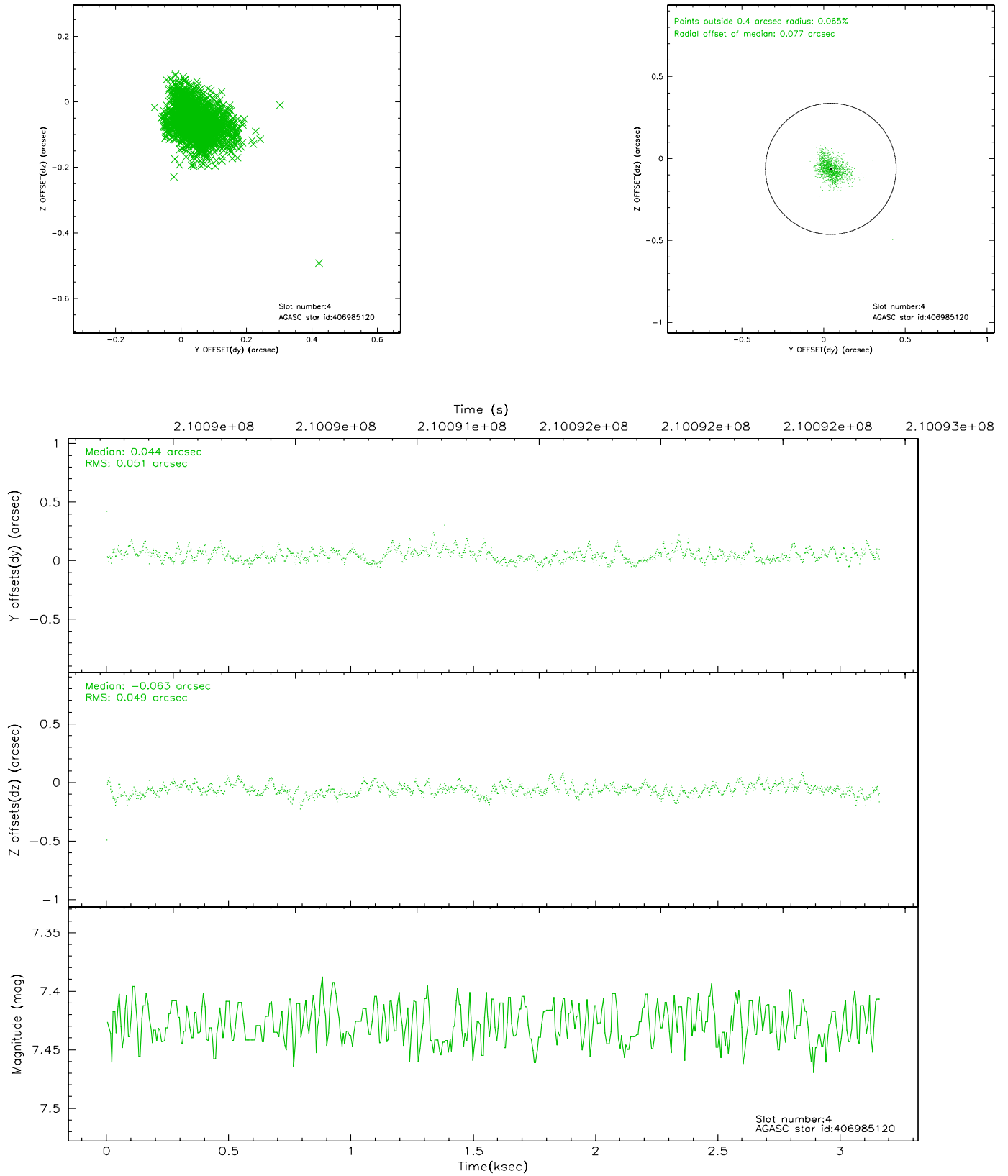
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.98	772	-0.007	0.015	0.006	0.010	0.000000	0.000000	-763.40	-1296.08
1	FID	HRC-I-2	7.01	772	0.120	-0.078	0.007	0.012	0.000000	0.000000	848.37	-1299.53
2	FID	HRC-I-4	7.00	772	0.004	-0.030	0.005	0.010	0.000000	0.000000	1280.65	1004.22
3	GUIDE	406983600	8.92	1543	-0.057	0.037	0.080	0.126	279.940957	39.020708	-1628.58	1380.90
4	GUIDE	406985120	7.43	1543	0.044	-0.063	0.072	0.123	278.839732	38.894839	245.07	-1107.69
5	GUIDE	406989616	8.22	1542	0.041	-0.037	0.074	0.118	279.202881	38.520843	945.50	428.44
6	GUIDE	406990192	9.00	1542	0.145	0.092	0.082	0.138	278.510952	38.533654	1829.15	-1308.22
7	GUIDE	407510432	8.13	1542	-0.176	-0.034	0.085	0.135	278.762778	39.530640	-1667.49	-2382.14

## 2.4 Star Slots

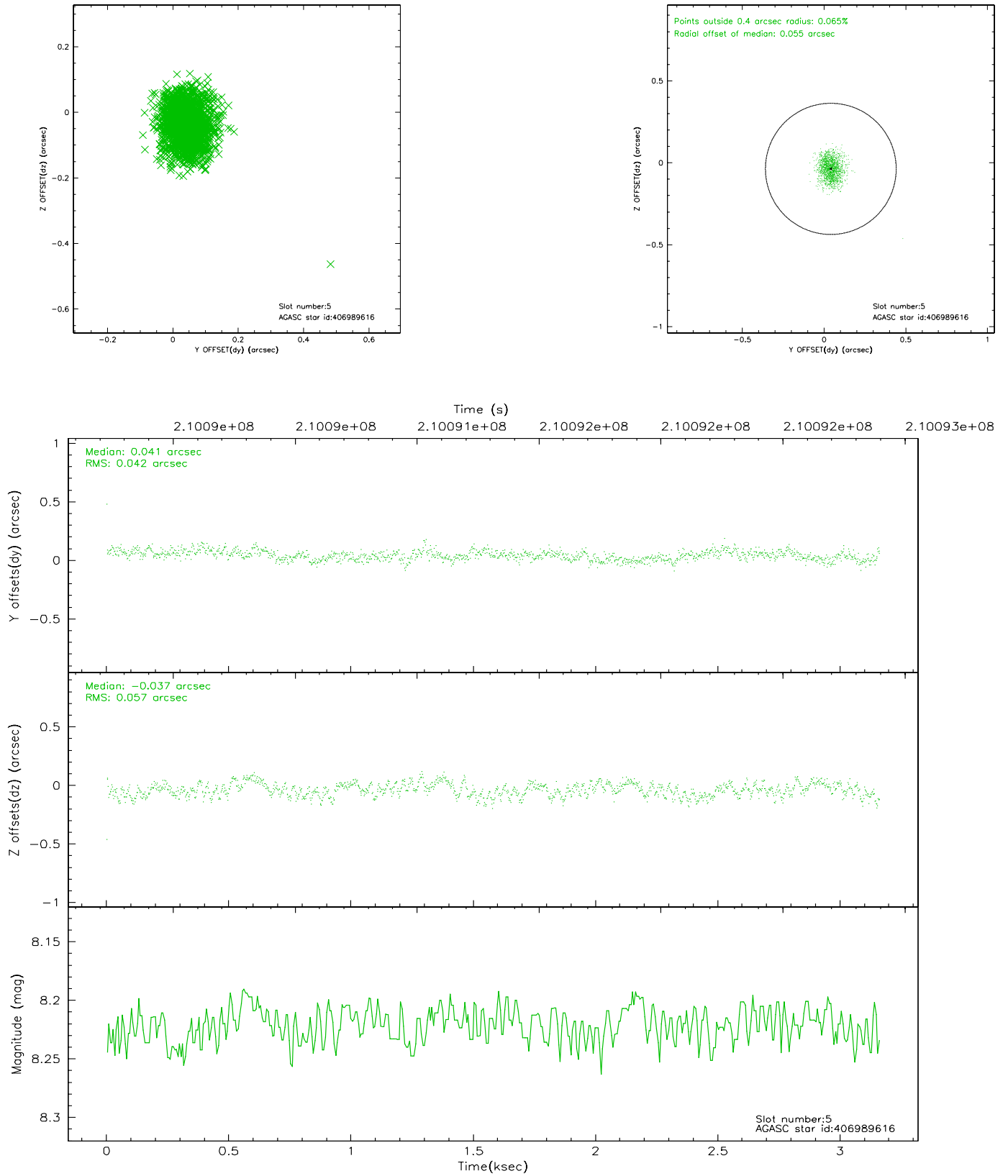
### 2.4.1 Slot 3



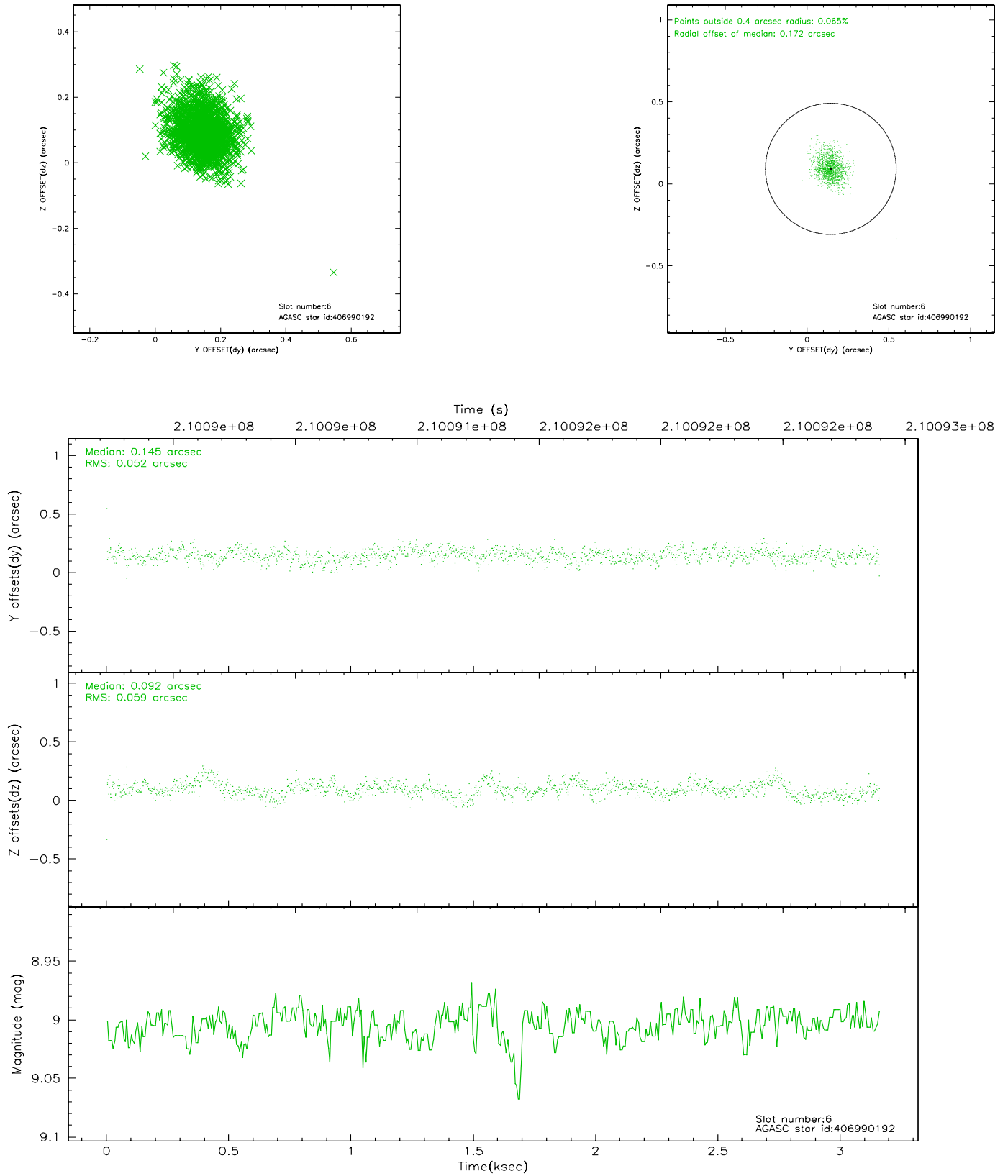
## 2.4.2 Slot 4



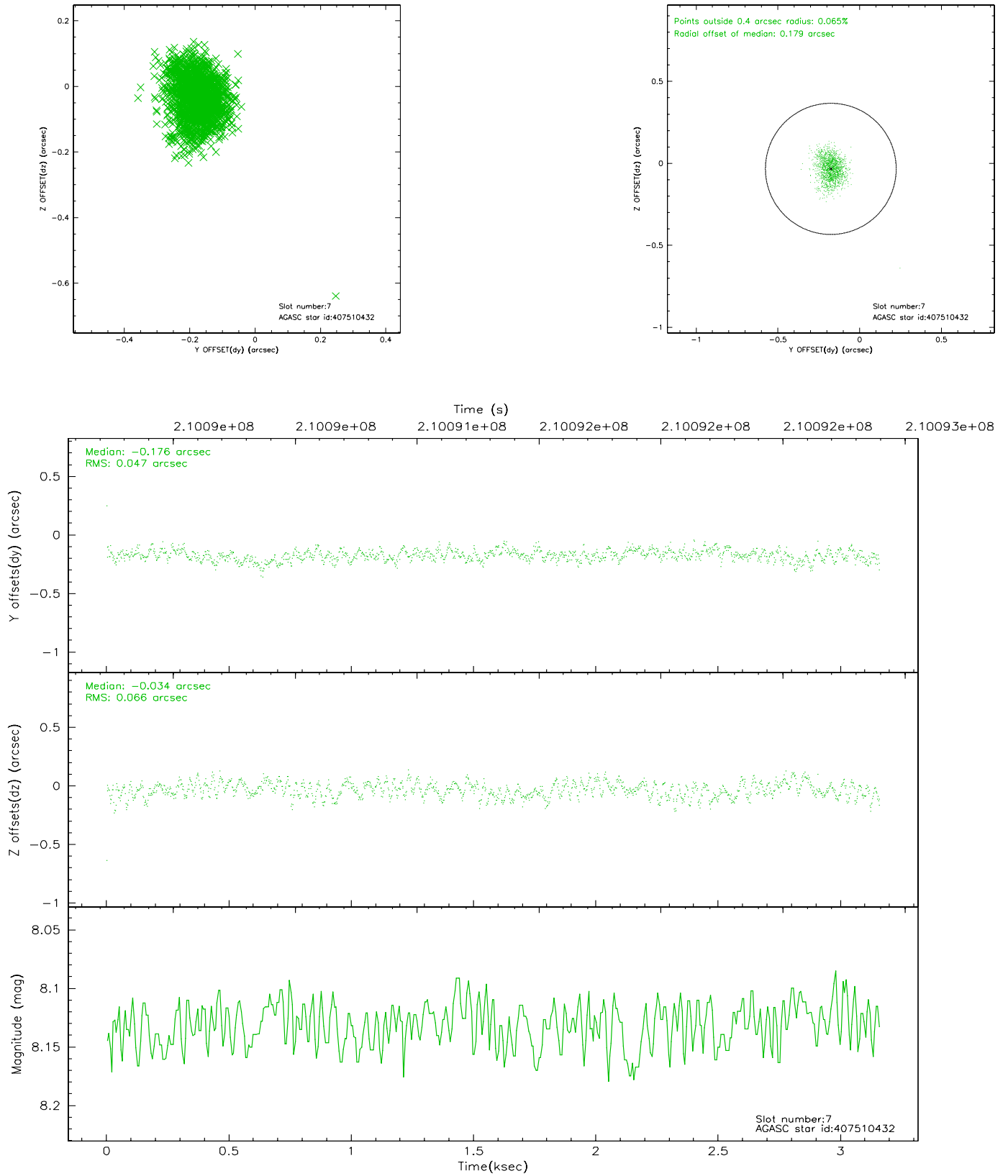
### 2.4.3 Slot 5



## 2.4.4 Slot 6

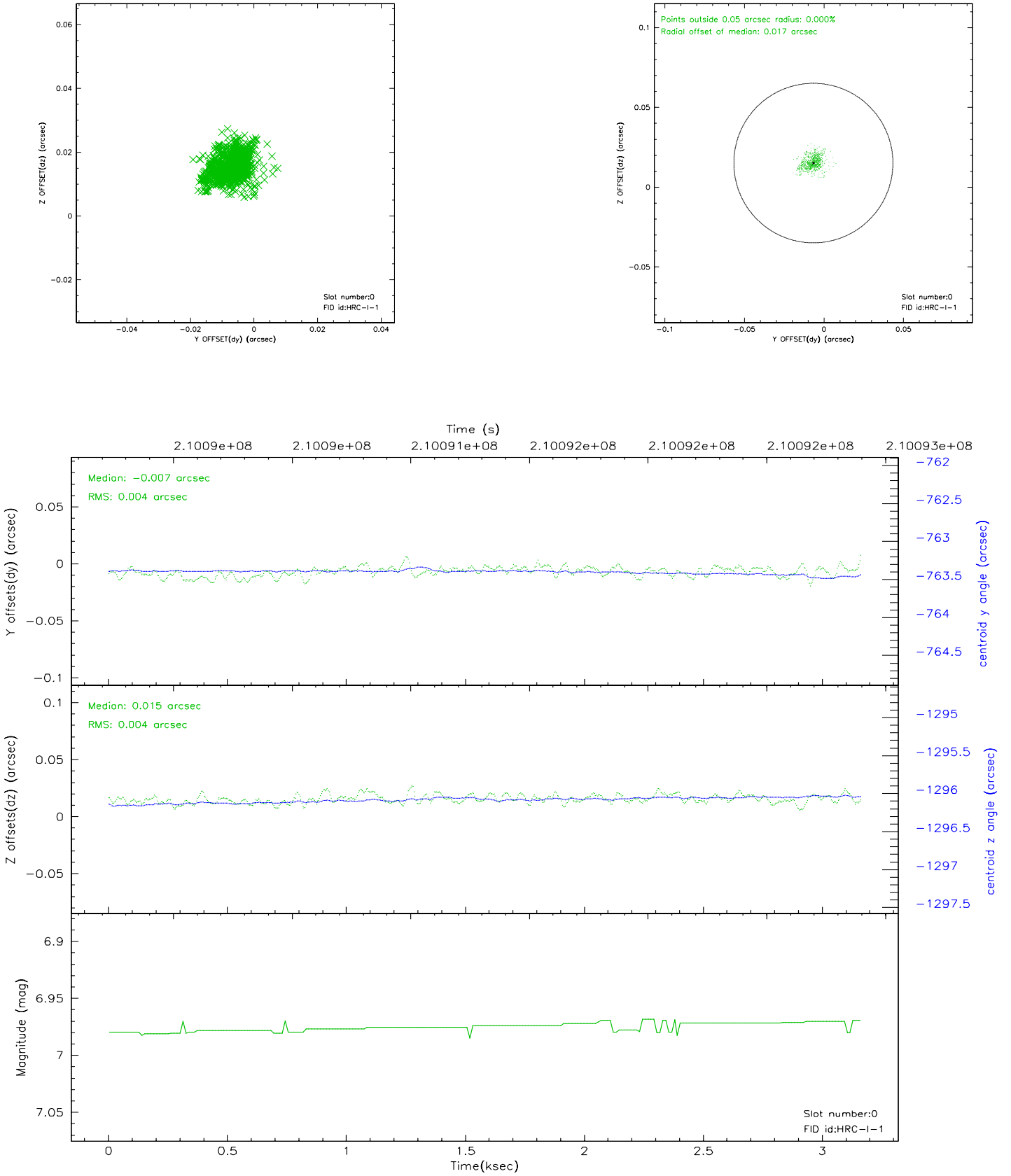


## 2.4.5 Slot 7

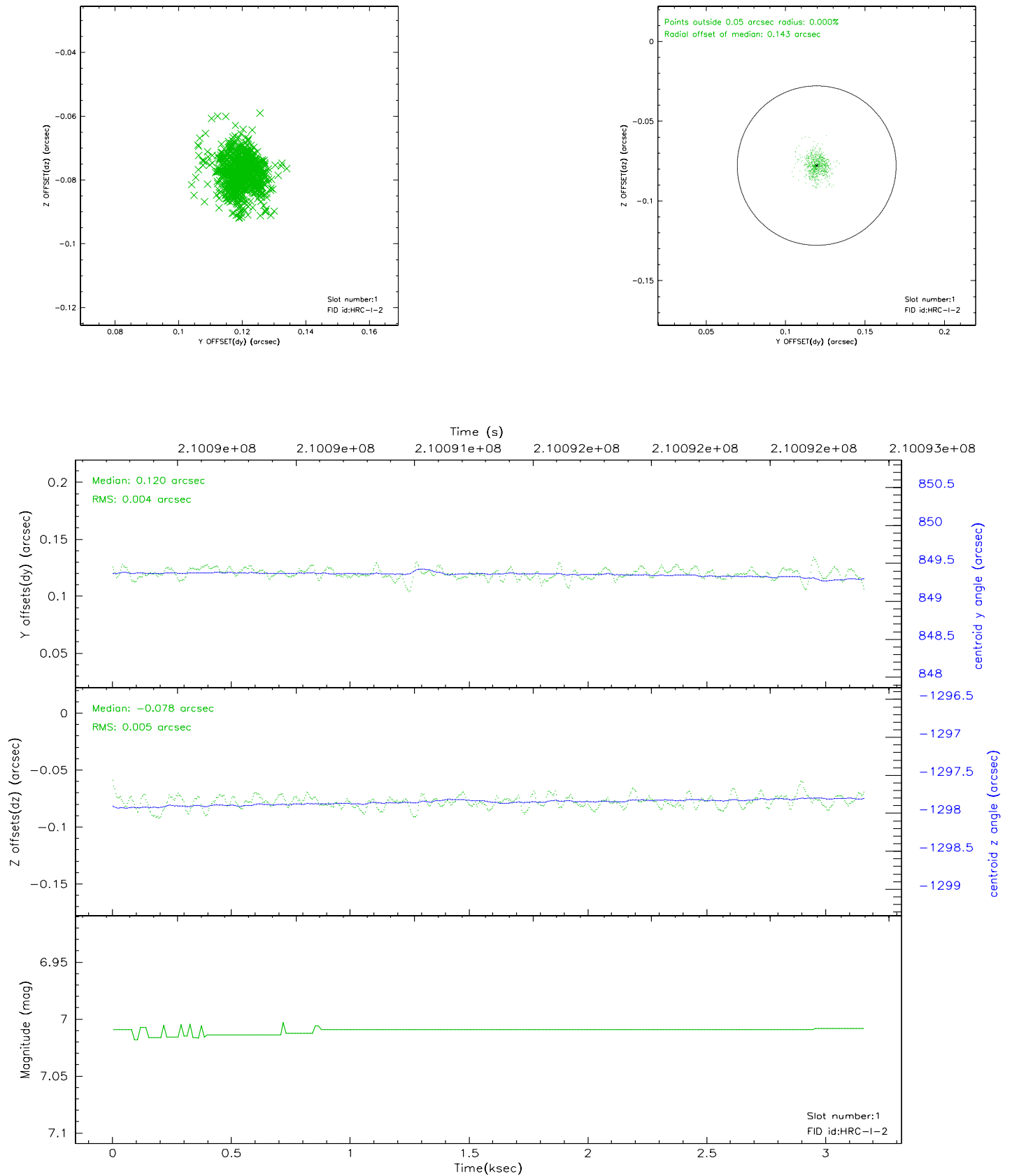


## 2.5 FID Slots

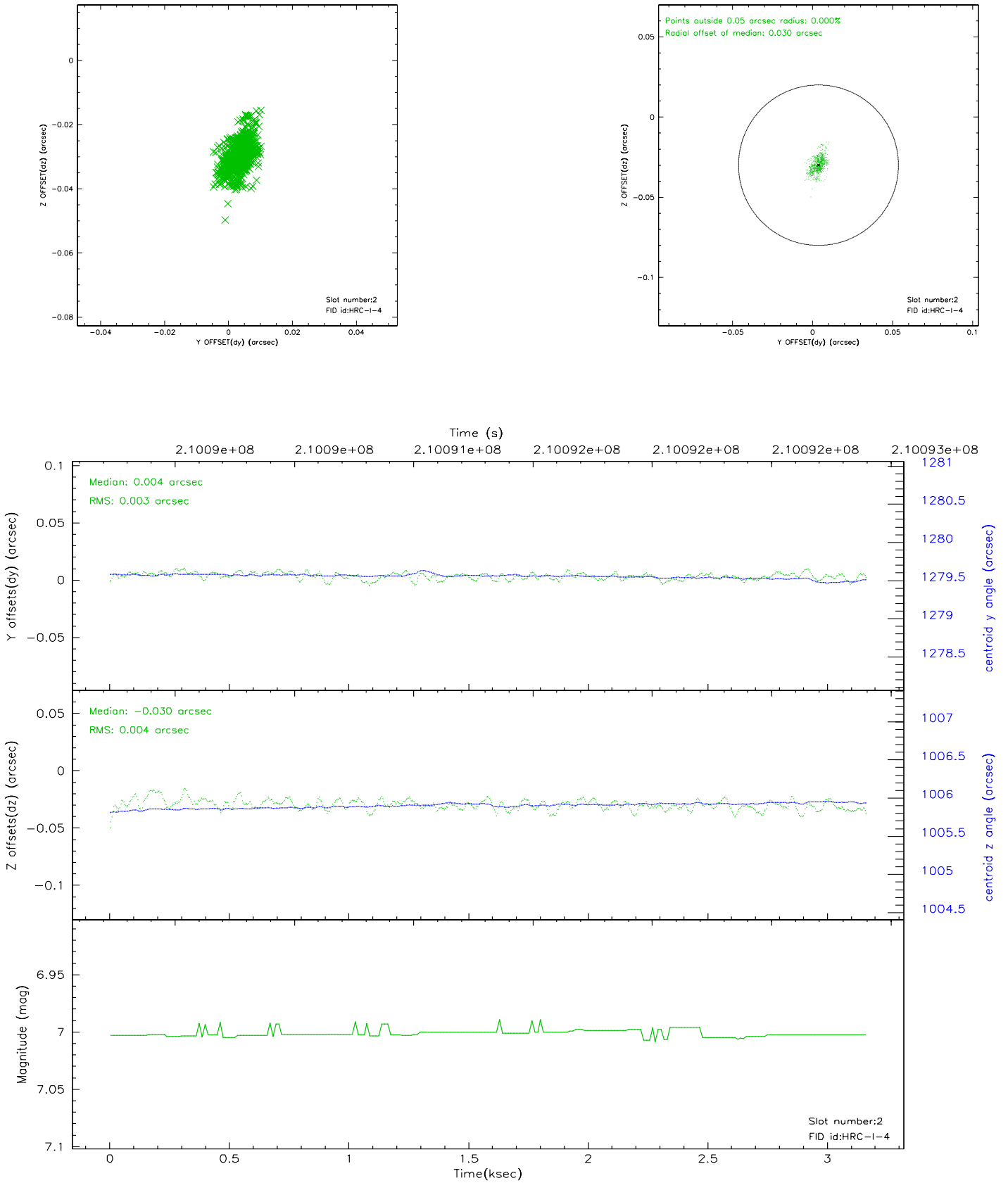
### 2.5.1 Slot 0



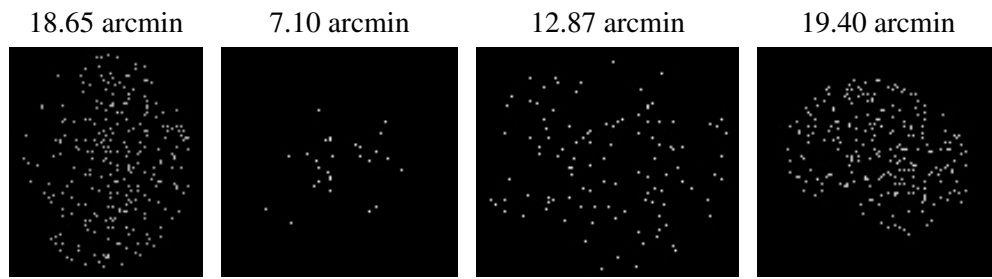
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.12.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.16

## A.2 Comments

Window constraint met.

The current observation has been reprocessed as part of Repro III ('C' supplement) the purpose of which is to update all HRC-I ObsIDs since Jan 2000 to the latest calibrations available for that configuration. Specifically, we are updating the DEGAP solution and the Gain Maps applied. For more information see the Repro IIIC web page at

<http://asc.harvard.edu/cda/repro3.html#IIIC>

and the associated links.