

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 1570 - L2 Version 4  
Chandra X-Ray Center

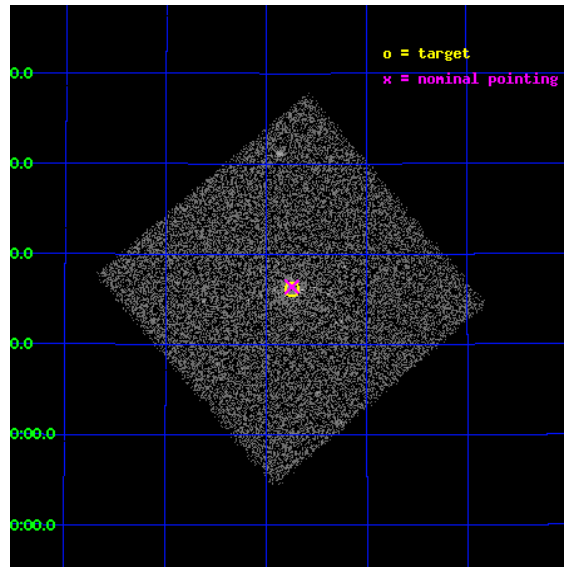
L2 Processing Date : Sep 17 2012

## 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>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

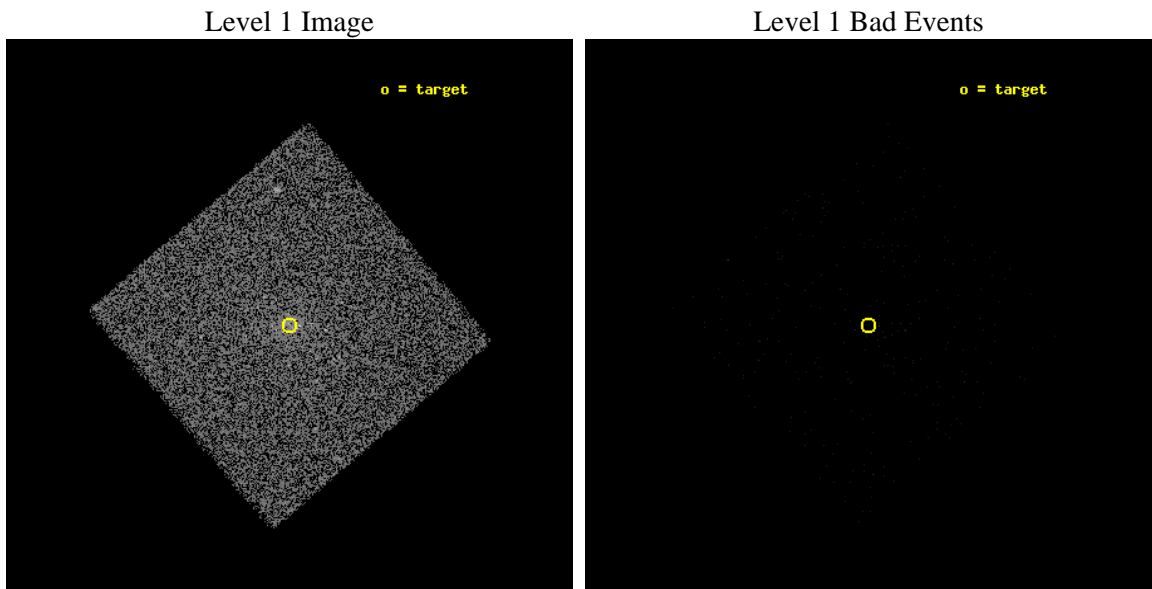
seq_num	600127	Sequence number
obs_id	1570	Observation id
title	HRC MONITORING OF M31	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	M31 - CENTER	Source name
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.268972	Observer's specified target Dec [deg]
ra_nom	10.685923443591	Nominal RA [deg]
dec_nom	41.2730986313	Nominal Dec [deg]
roll_nom	94.691216191688	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1190.0250463933	[s]
livetime	1183.9742147122	Ontime multiplied by DTCOR
l2events	31789	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1190.0250463933	[s]
caldbver	4.5.1.1	&#160	l1events	58648	Number of level 1 events
date	2012-09-17T18:20:03	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

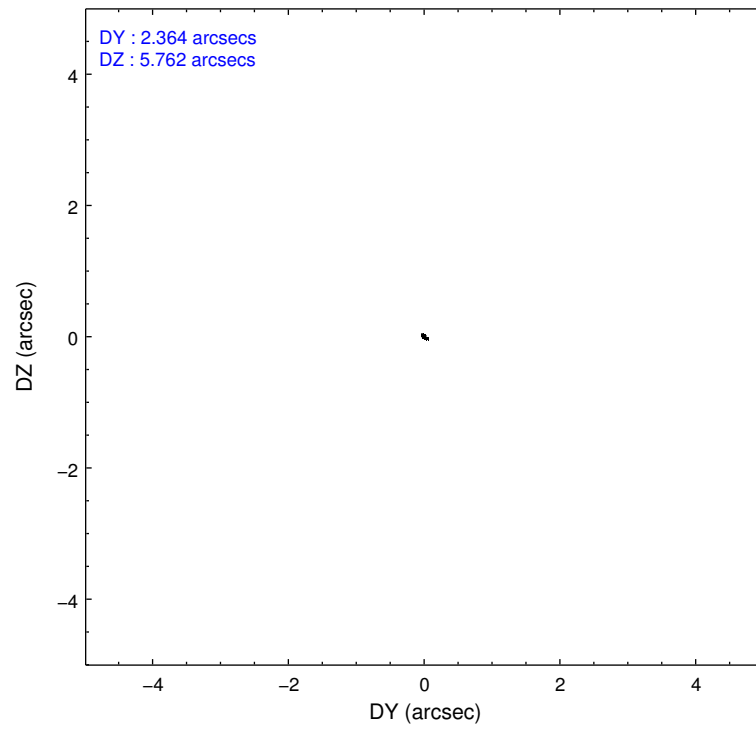
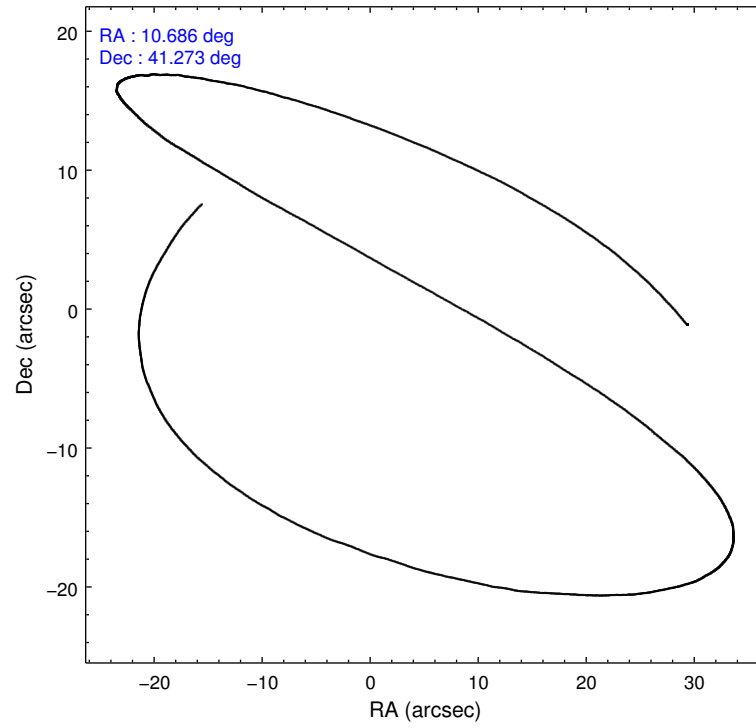
#### Level 1 Events

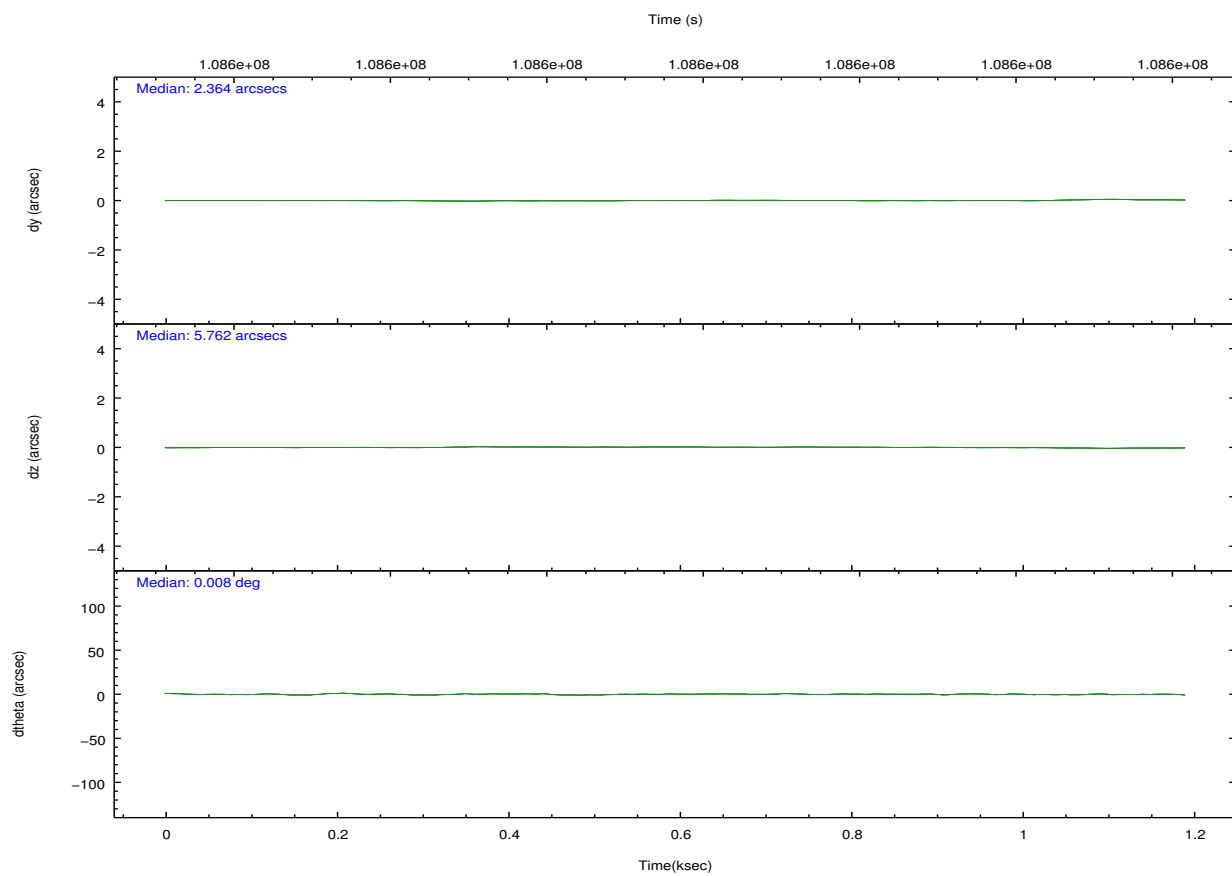
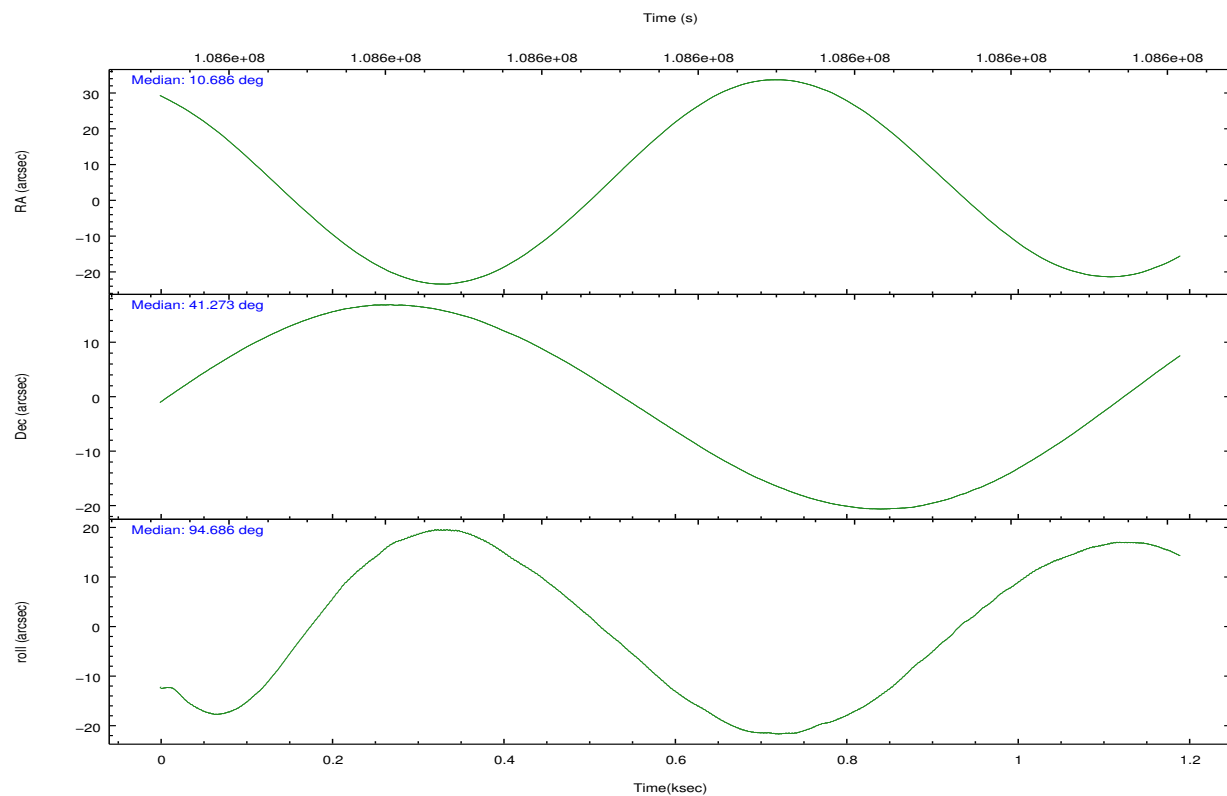
	<b>segment 0</b>
level 1 events	58648
rejected events	12281
rejected %	20%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
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			
[deg] Pointing RA	10.707910	10.68592344359052			
[deg] Pointing Dec	41.251012	41.27309863130009			
[deg] Pointing Roll	94.772261	94.6912161916883			
[s] Window start time (MET)	108172864.184000	108172864.184000			
[s] Window stop time (MET)	108691264.184000	108691264.184000			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	108598756.184000	108598380.71402			
Observation start date	2001-06-10T22:18:12	2001-06-10T22:13:00			
[s] Observation end time (MET)	108599756.184000	108599890.53908			
Observation end date	2001-06-10T22:34:52	2001-06-10T22:38:10			

## 2.3 Aspect





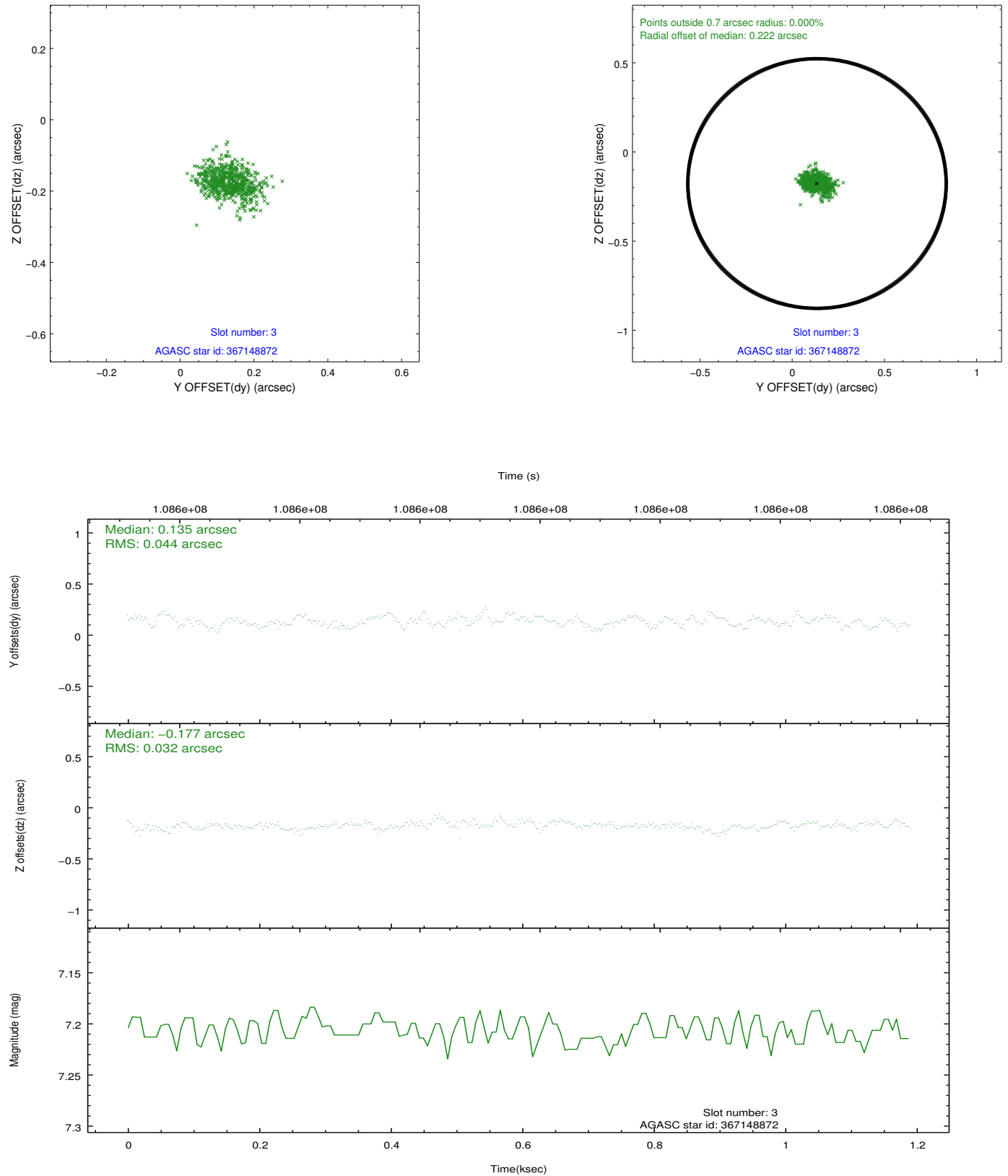
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-2	7.02	291	0.018	0.008	0.006	0.010	0.000000	0.000000	854.84	-1295.12
1	FID	HRC-I-3	7.07	291	0.035	-0.055	0.005	0.009	0.000000	0.000000	-1183.35	1006.47
2	FID	HRC-I-4	7.01	291	0.065	-0.041	0.006	0.010	0.000000	0.000000	1280.95	1012.03
3	GUIDE	367148872	7.21	582	0.135	-0.177	0.058	0.095	10.505940	40.688258	-1972.58	716.44
4	GUIDE	367138920	7.73	582	0.025	0.111	0.075	0.110	11.513485	40.808909	-1762.08	-2056.02
5	GUIDE	367674552	8.85	582	-0.086	0.077	0.067	0.110	11.016238	41.570845	1076.58	-928.04
6	GUIDE	367657896	9.01	582	-0.012	0.073	0.083	0.132	11.197765	41.313576	119.75	-1341.71
7	GUIDE	367665472	9.49	581	-0.067	-0.097	0.090	0.150	10.241611	41.730843	1828.90	1101.04

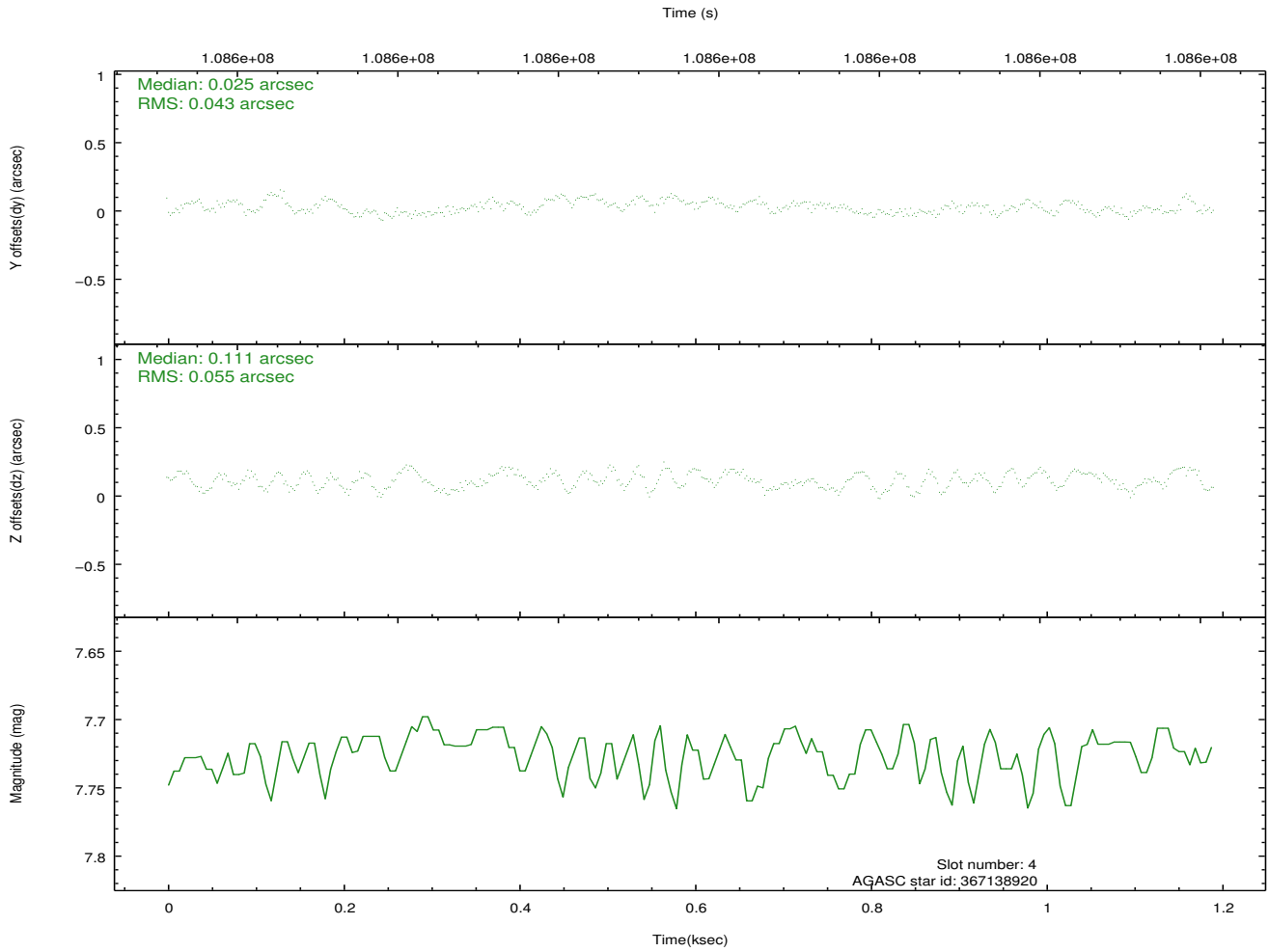
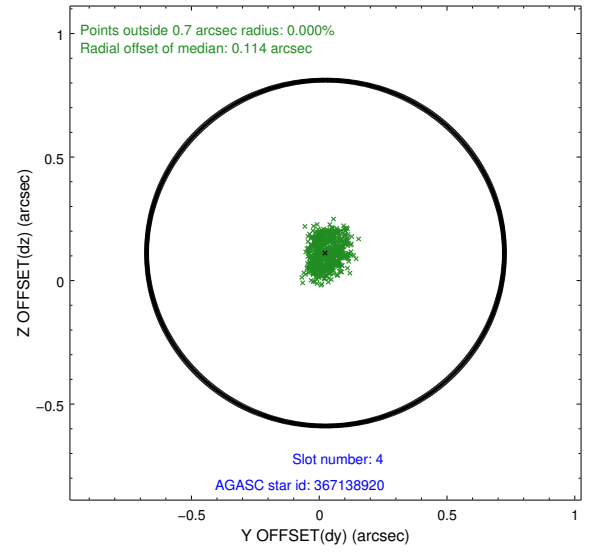
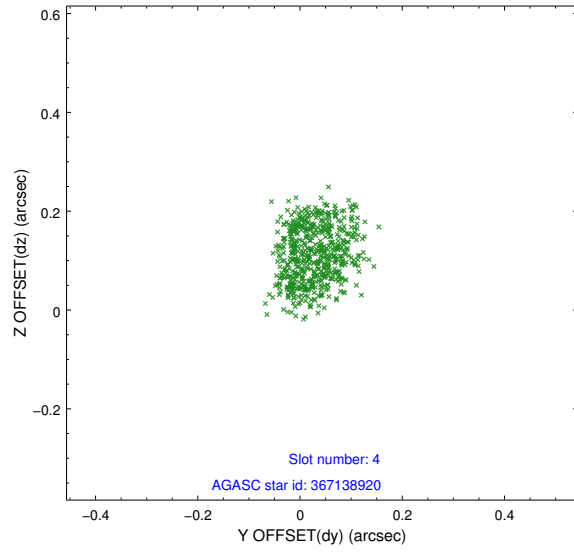


## 2.4 Star Slots

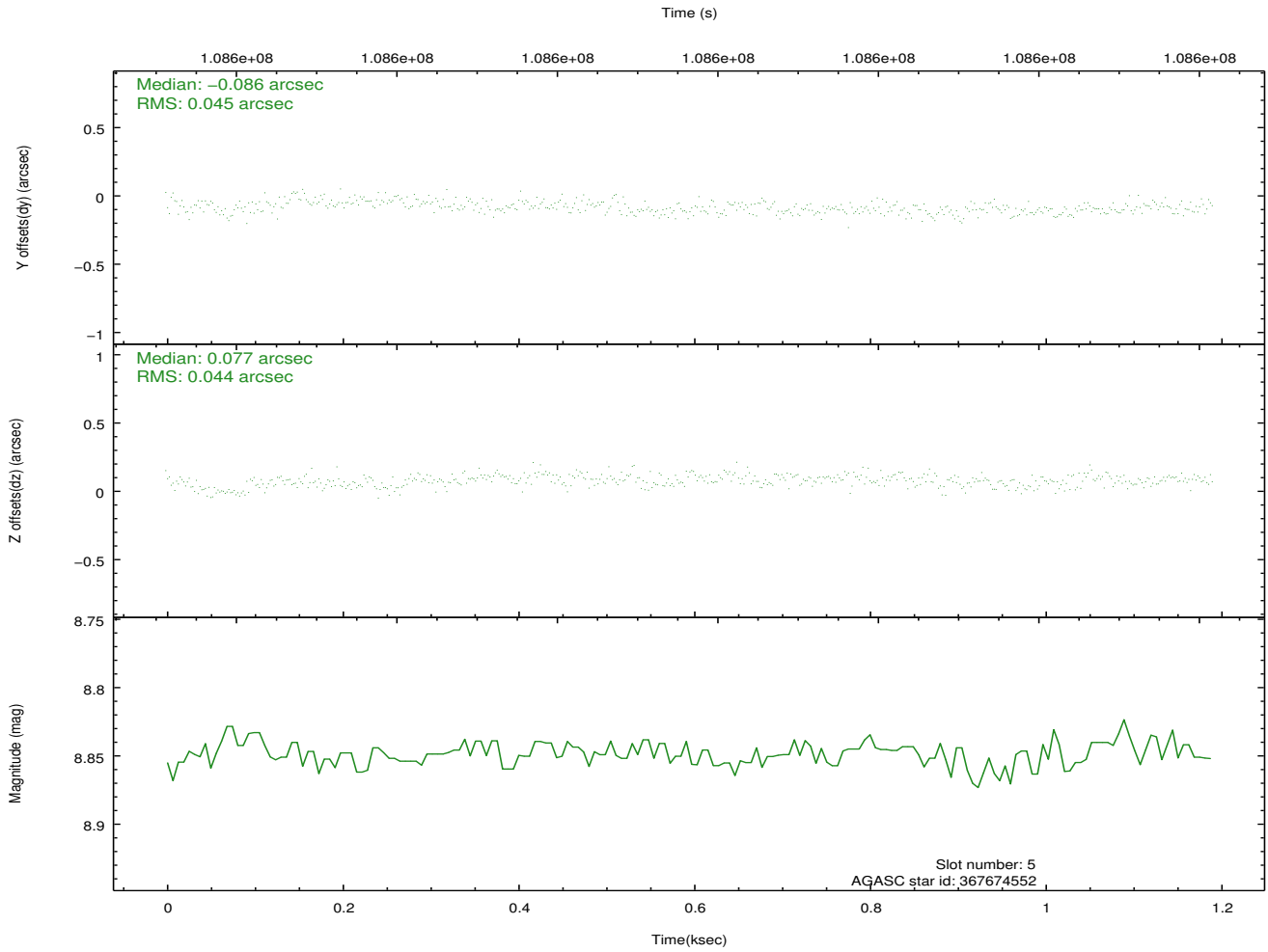
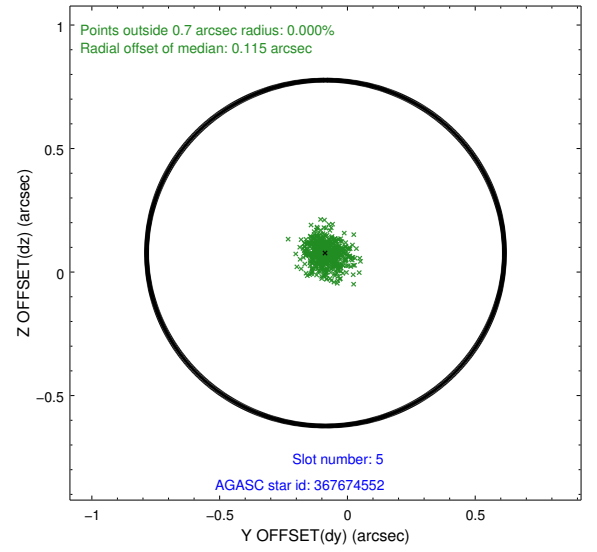
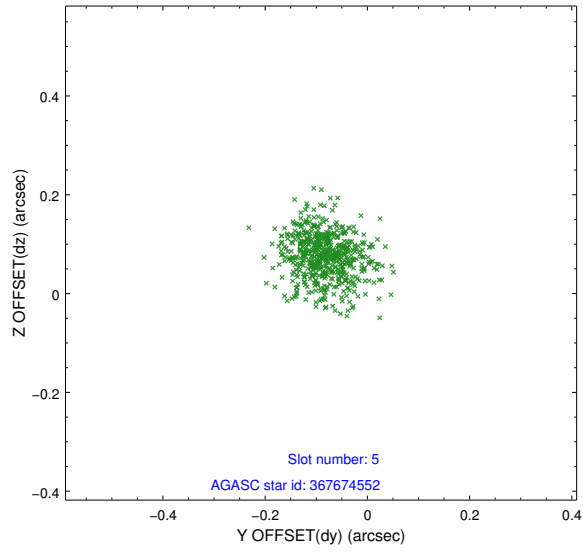
### 2.4.1 Slot 3



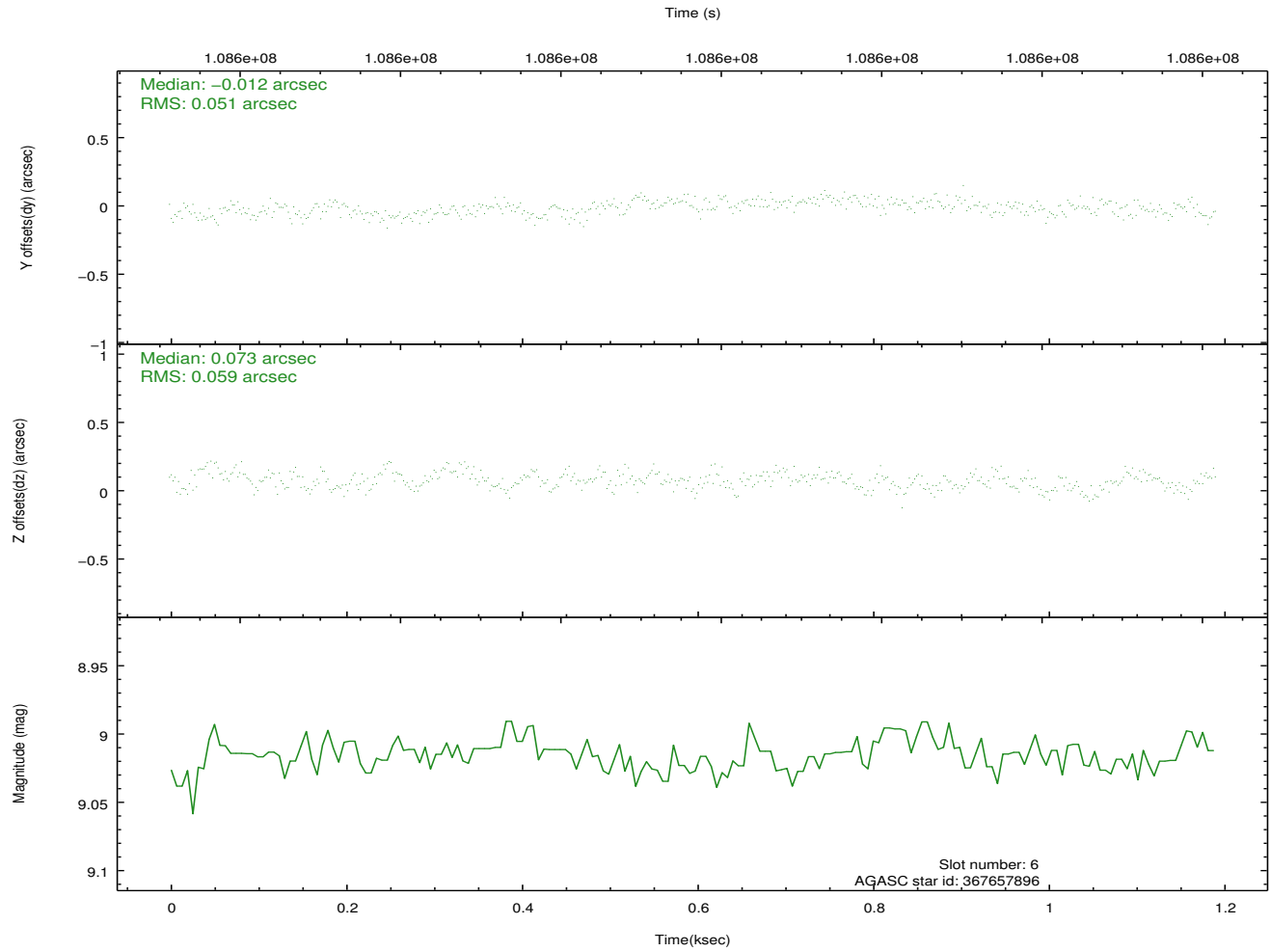
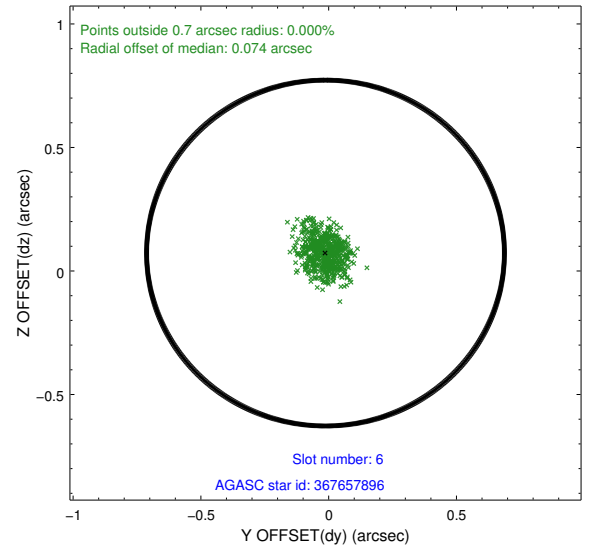
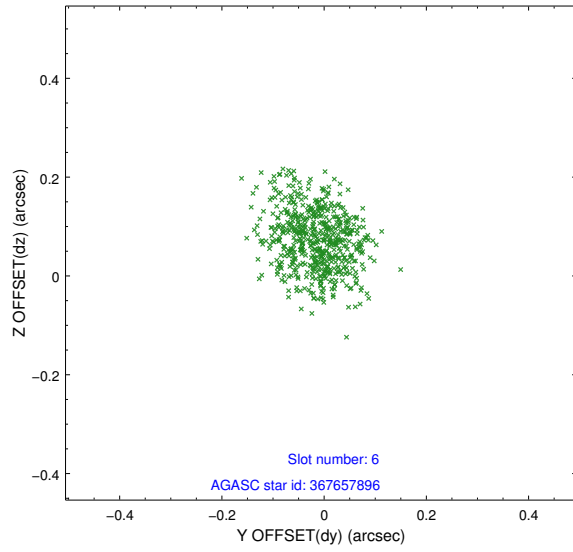
## 2.4.2 Slot 4



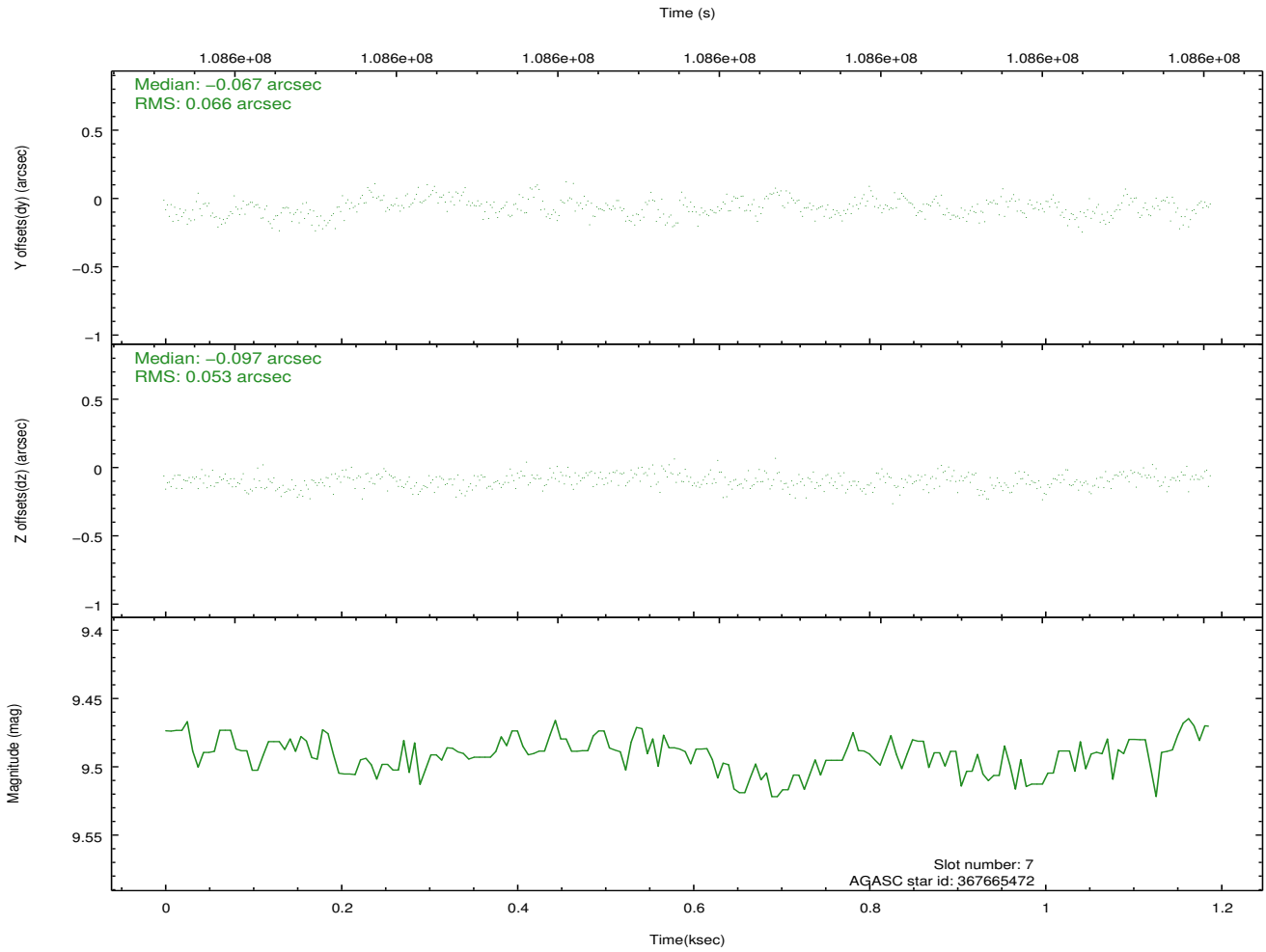
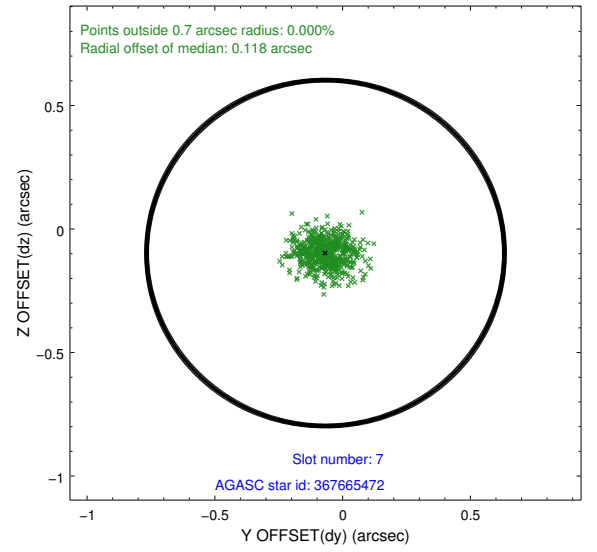
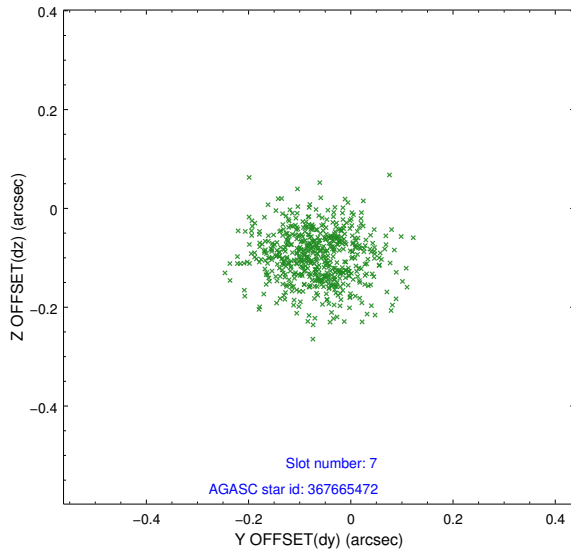
### 2.4.3 Slot 5



## 2.4.4 Slot 6

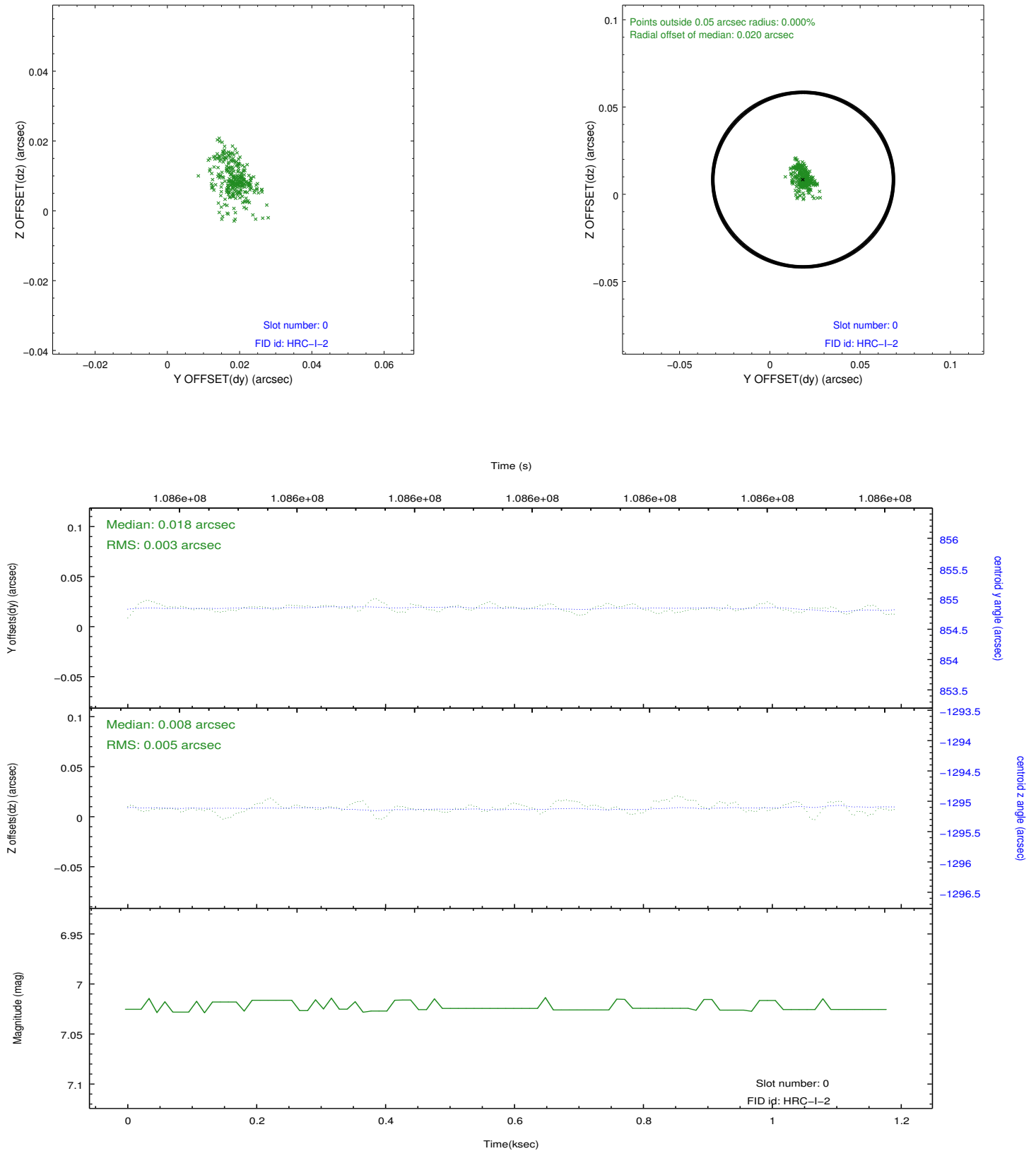


## 2.4.5 Slot 7

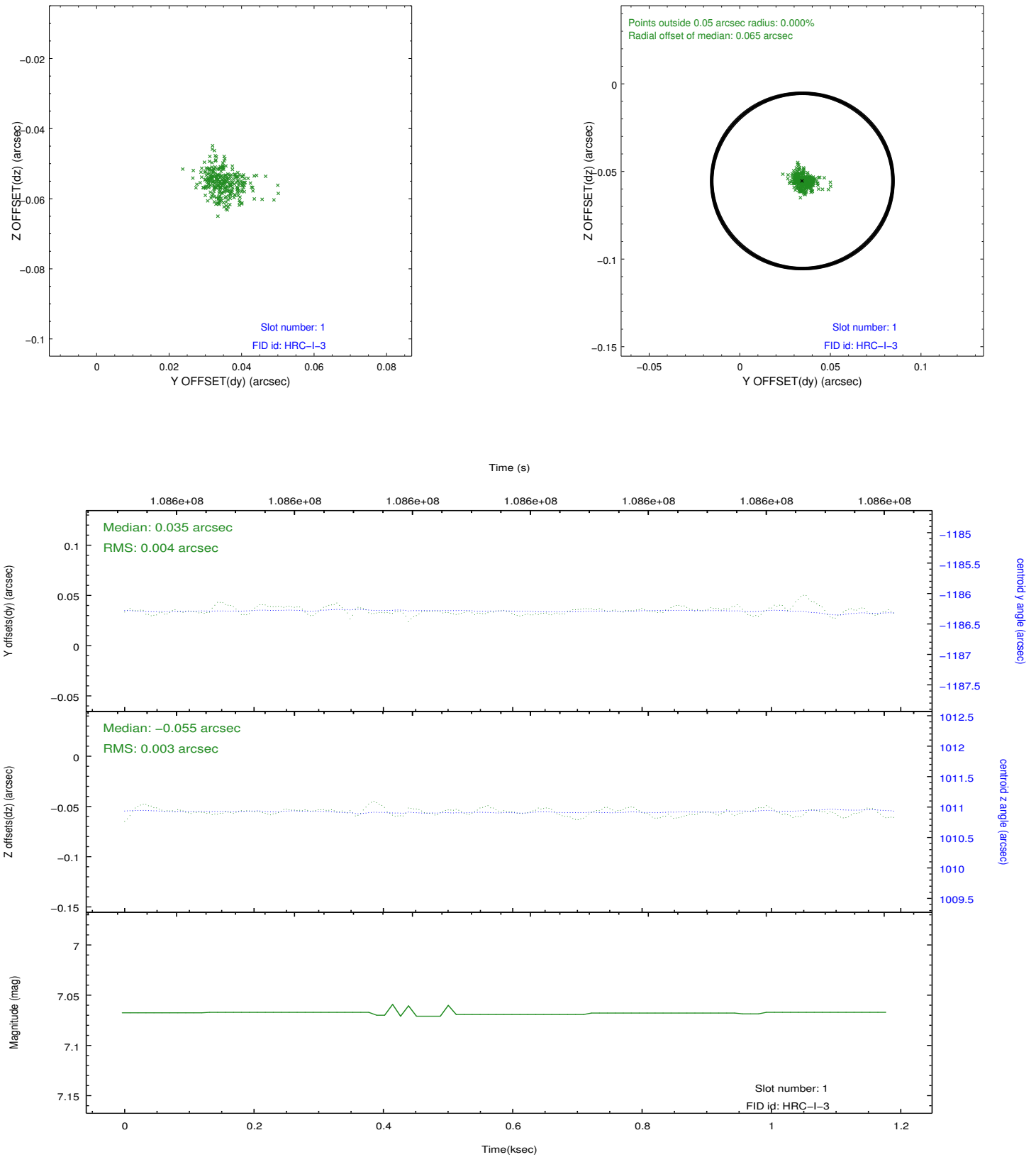


## 2.5 FID Slots

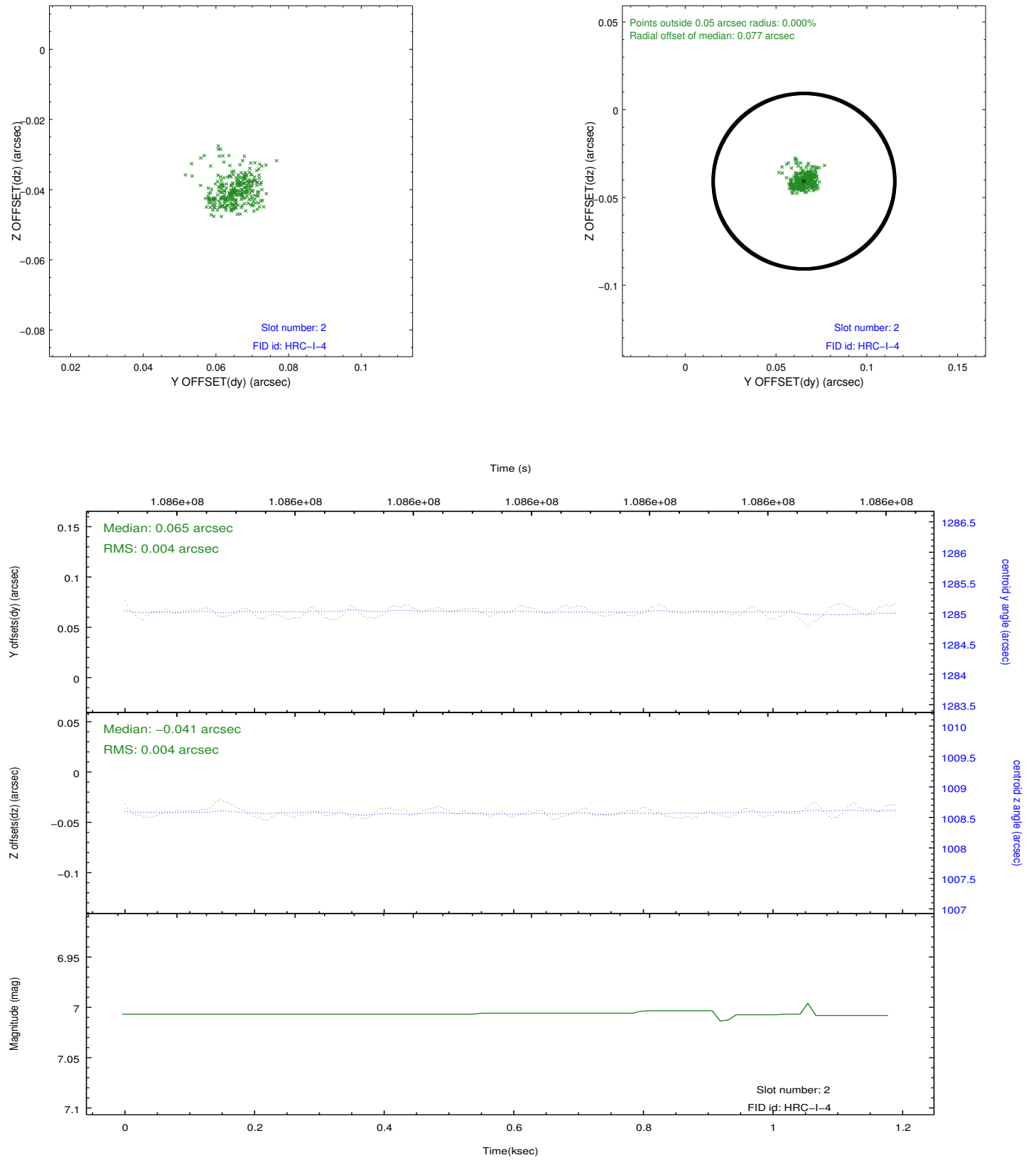
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.09.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.19

### A.2 Comments

Window preference met.