

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9662 - L2 Version 3  
Chandra X-Ray Center

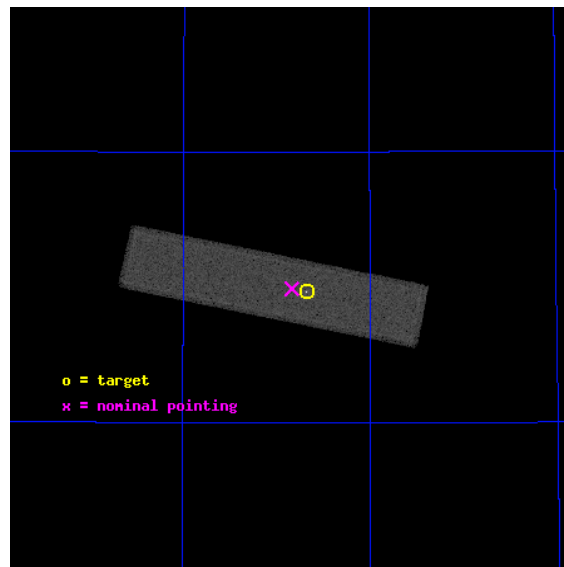
L2 Processing Date : Aug 12 2012

## 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

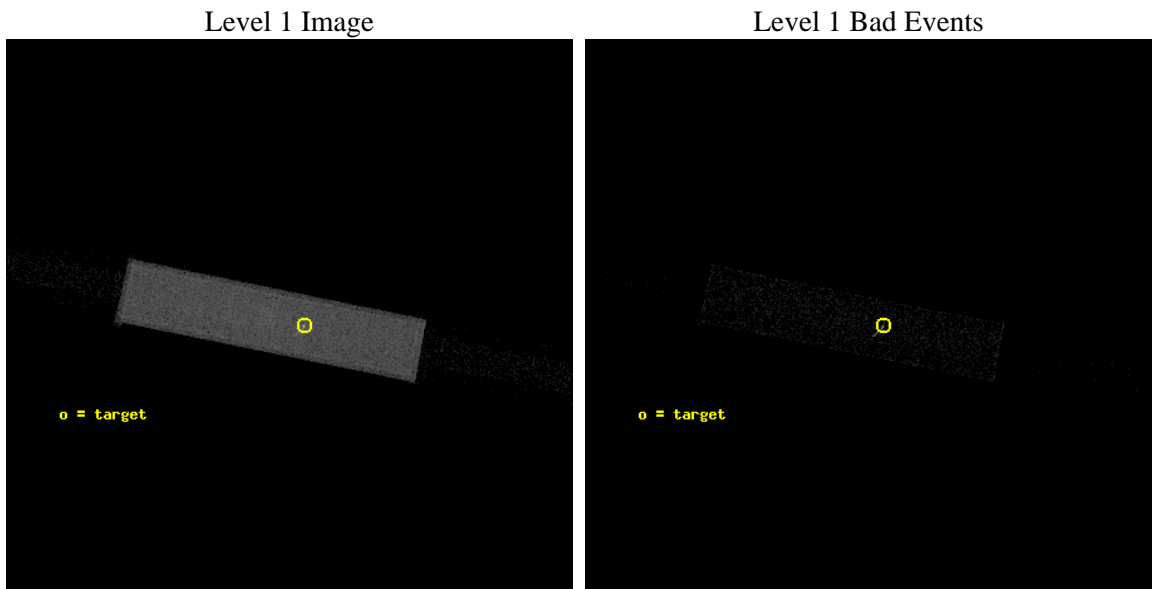
seq_num	290785	Sequence number
obs_id	9662	Observation id
title	AO9 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.20873738137	Nominal RA [deg]
dec_nom	45.747791458357	Nominal Dec [deg]
roll_nom	191.35560951685	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1333.5250654817	[s]
livetime	1321.6886086531	Ontime multiplied by DTCOR
l2events	84950	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	1180.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1333.5250654817	[s]
caldbver	4.5.1.1	&#160	l1events	130009	Number of level 1 events
date	2012-08-12T16:53:50	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

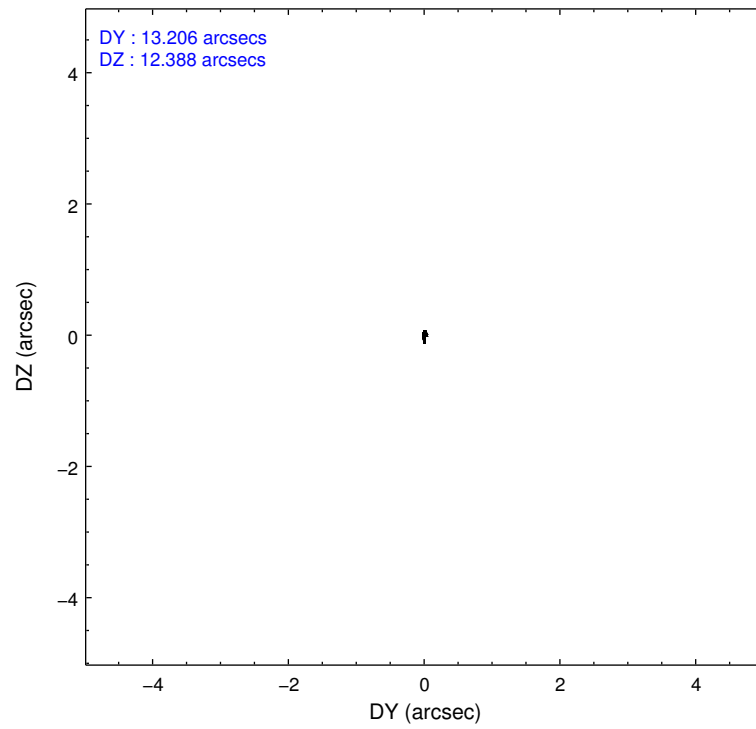
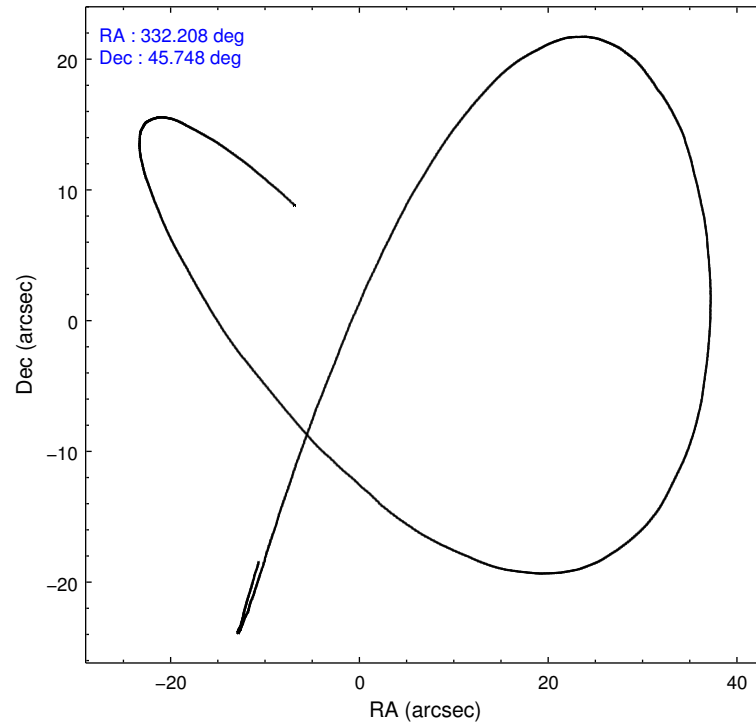
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1058	127877	1074
rejected events	1058	26321	1074
rejected %	100%	20%	100%

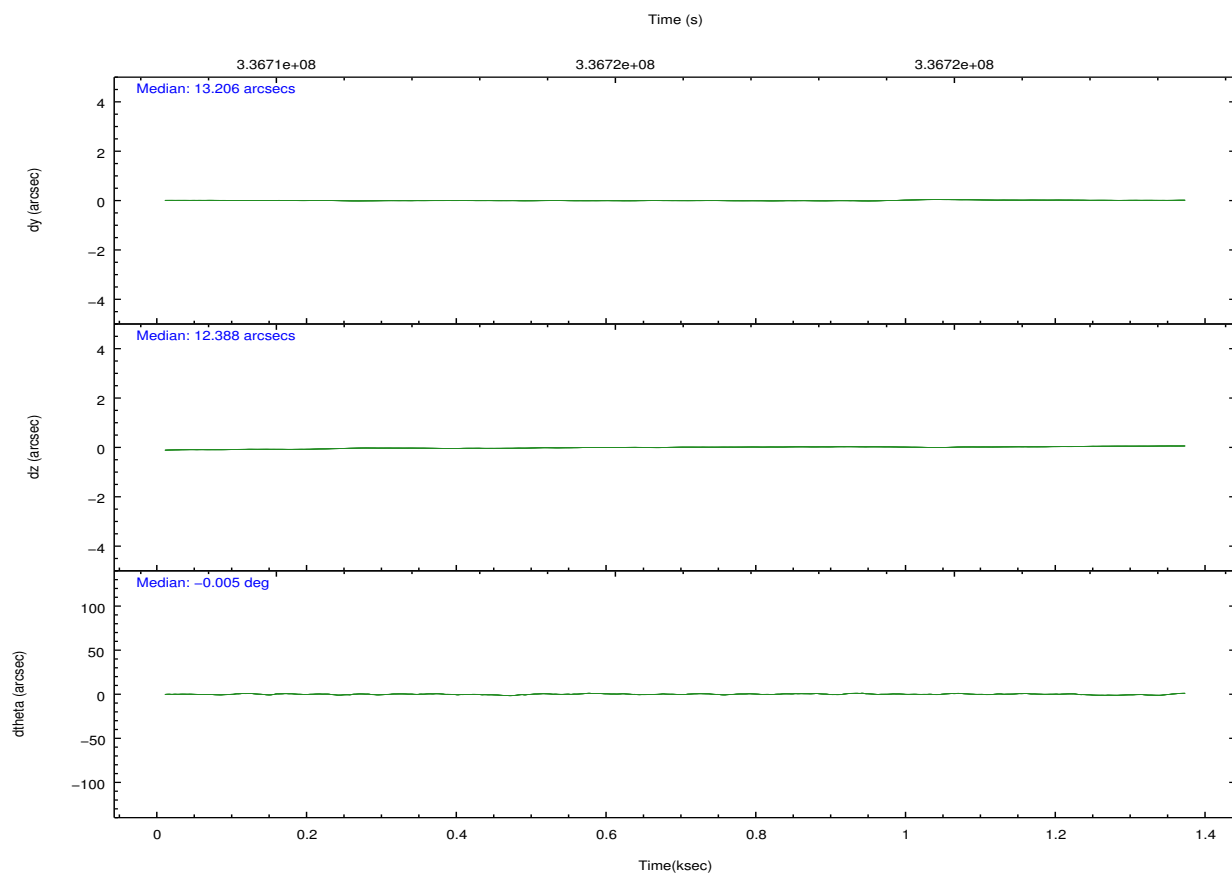
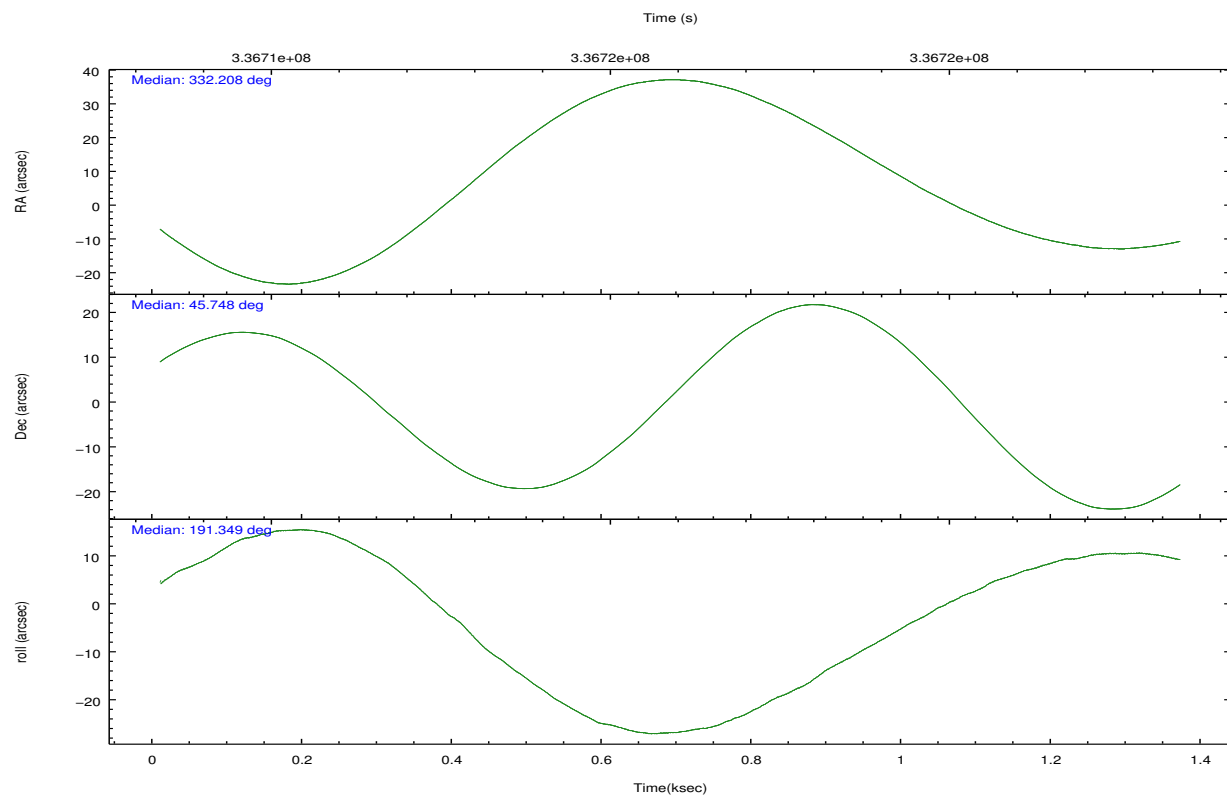
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.239628	332.2087373813669
[deg] Pointing Dec	45.767985	45.74779145835711
[deg] Pointing Roll	191.266142	191.3556095168506
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	336714593.184000	336714216.82032
Observation start date	2008-09-02T03:48:48	2008-09-02T03:43:36
[s] Observation end time (MET)	336715773.184000	336715907.04541
Observation end date	2008-09-02T04:08:28	2008-09-02T04:11:47

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect





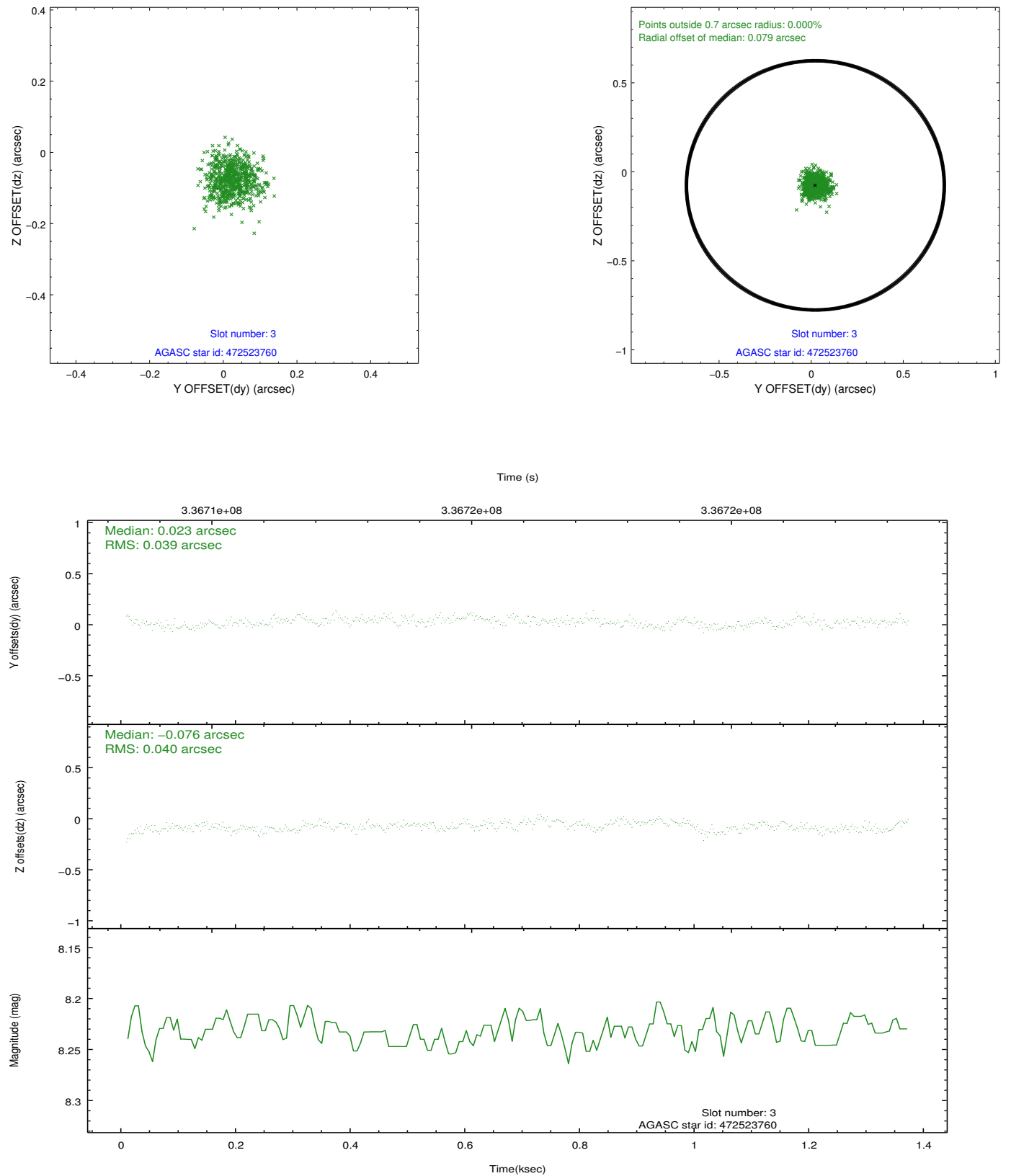
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.02	333	0.083	-0.122	0.007	0.011	0.000000	0.000000	-1167.55	-461.14
1	FID	HRC-S-2	7.01	333	0.219	-0.119	0.004	0.007	0.000000	0.000000	1228.74	-455.11
2	FID	HRC-S-3	7.01	333	0.087	-0.061	0.007	0.012	0.000000	0.000000	-1166.59	567.08
3	GUIDE	472523760	8.23	666	0.023	-0.076	0.059	0.096	331.645363	45.403260	1725.26	989.16
4	GUIDE	472533912	9.15	666	0.005	0.014	0.110	0.179	331.791136	46.368695	669.18	-2339.89
5	GUIDE	472535576	7.88	666	-0.111	0.033	0.065	0.112	331.438373	46.291802	1582.36	-2251.77
6	GUIDE	472665256	9.00	665	0.202	0.050	0.087	0.128	332.808125	46.195041	-1691.27	-1239.37
7	GUIDE	472527720	7.00	665	-0.125	-0.032	0.086	0.140	331.460205	45.112509	2395.05	1916.65

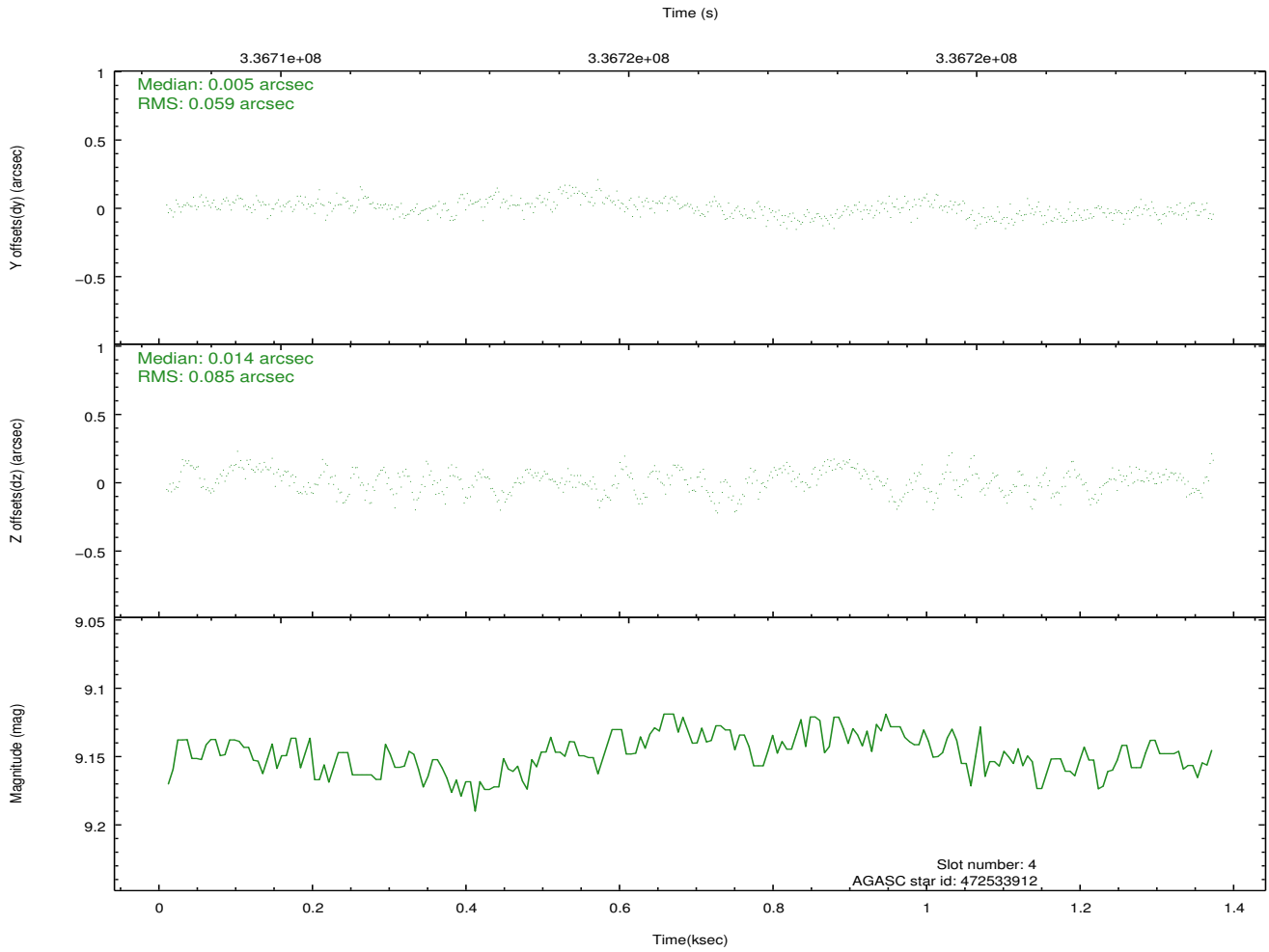
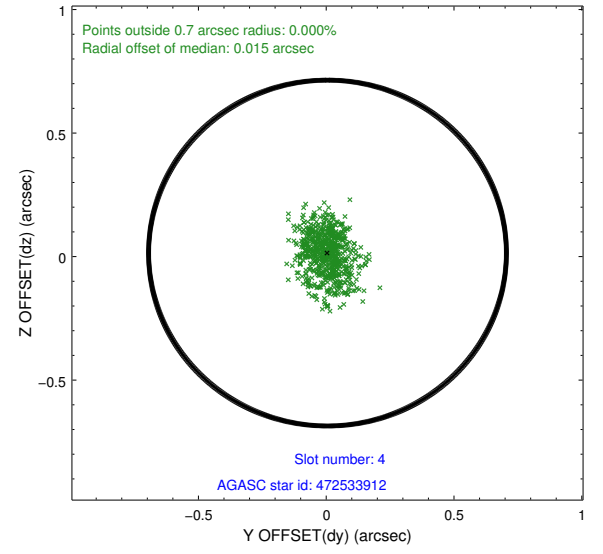
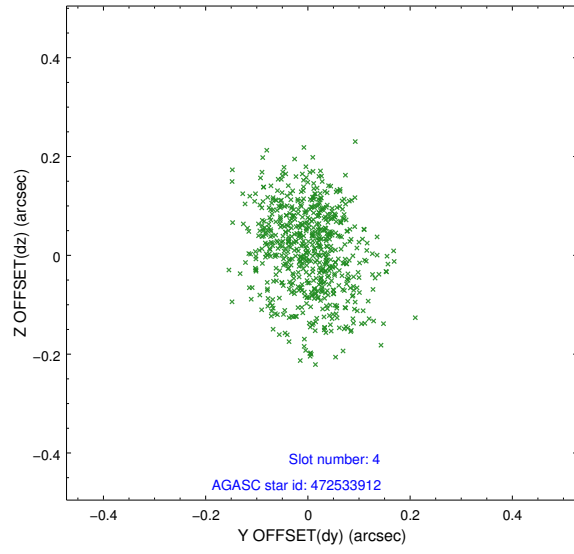


## 2.4 Star Slots

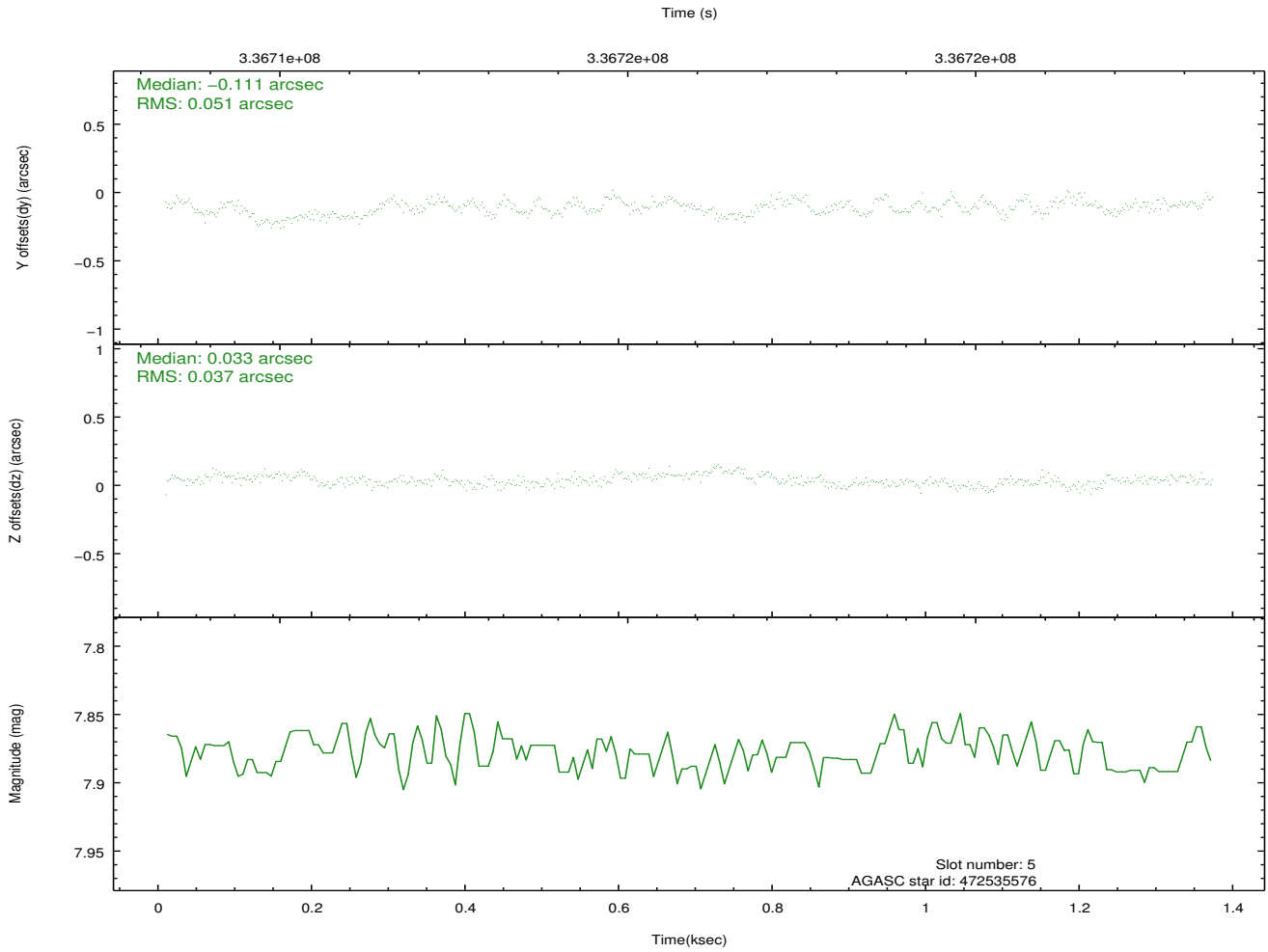
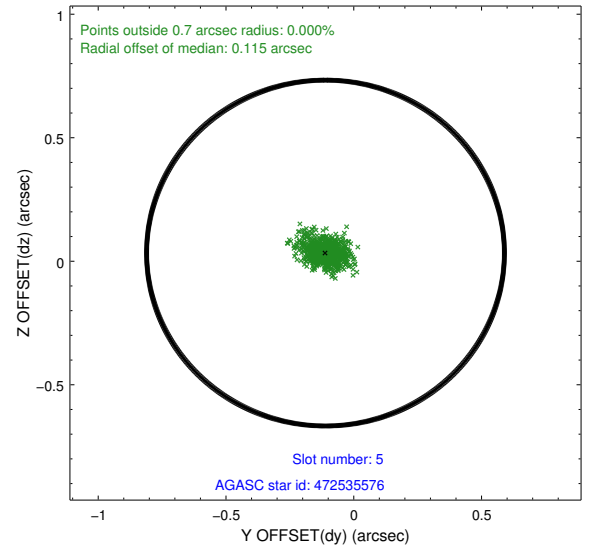
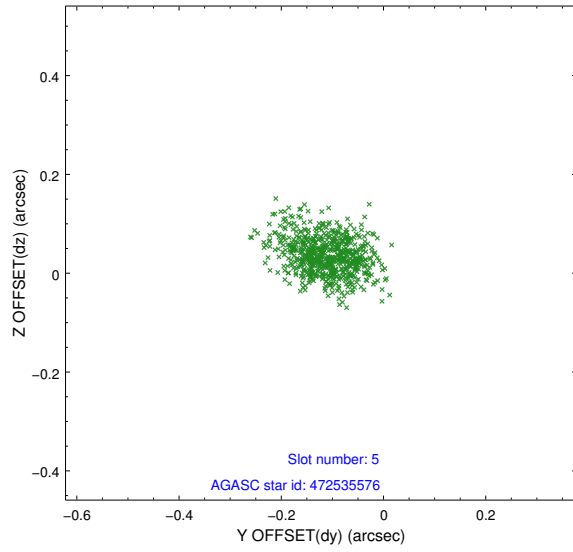
### 2.4.1 Slot 3



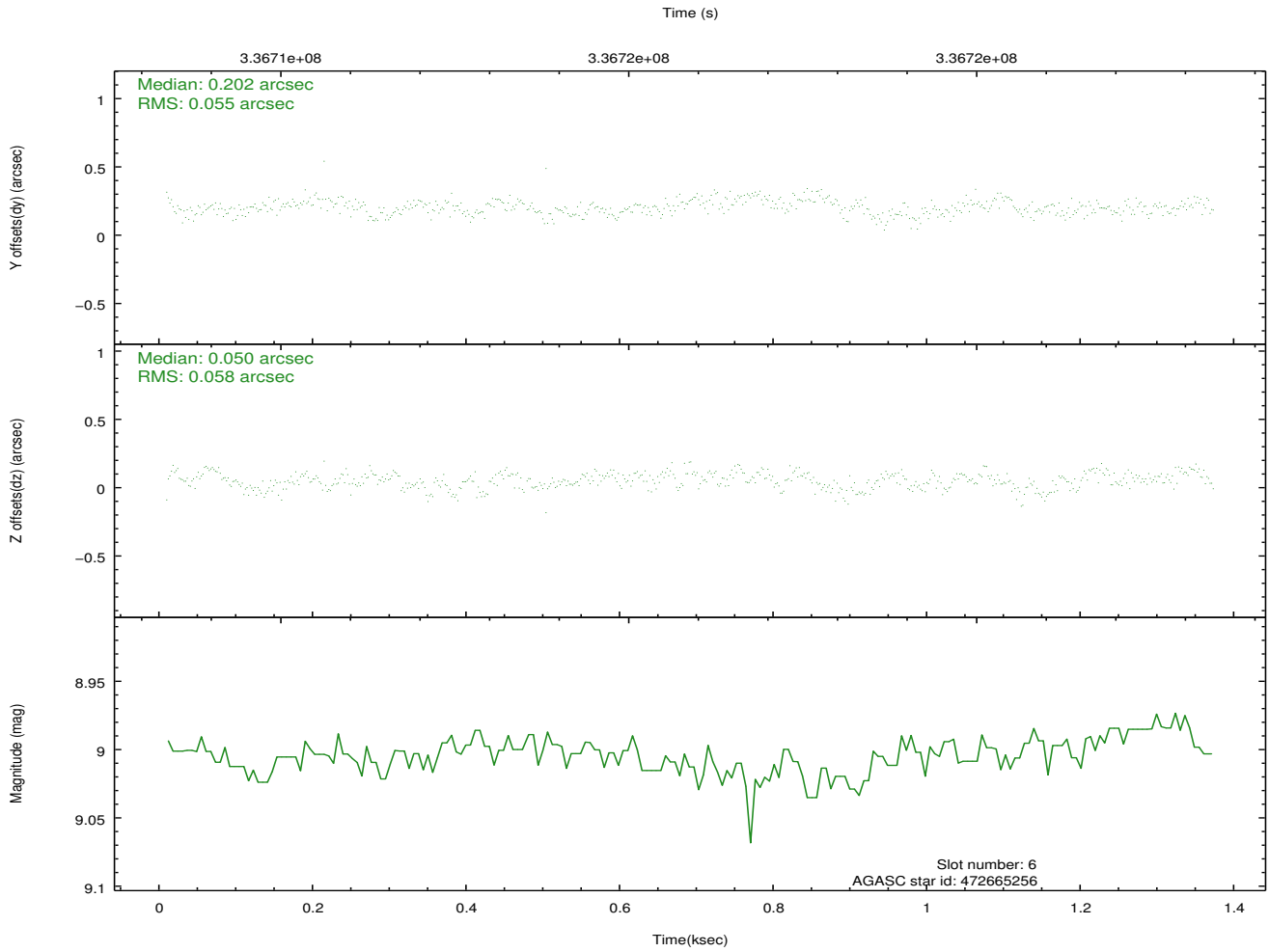
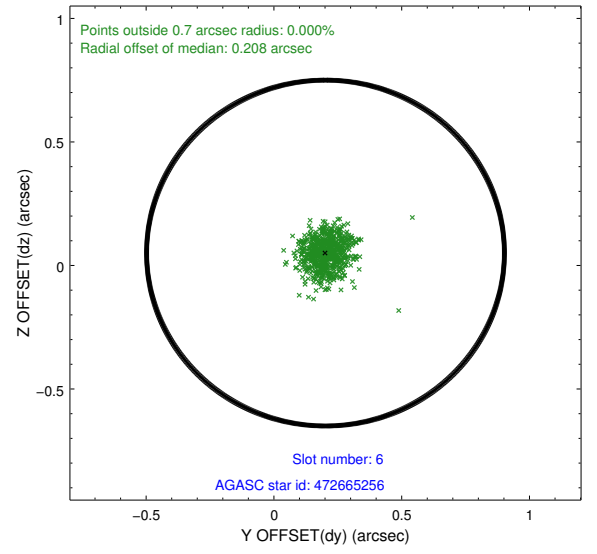
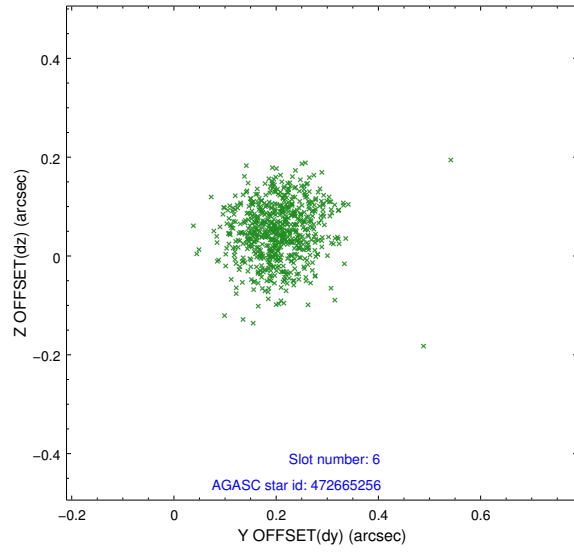
## 2.4.2 Slot 4



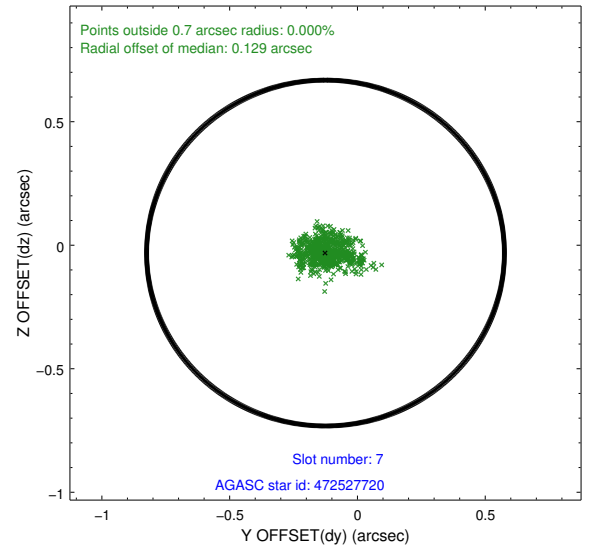
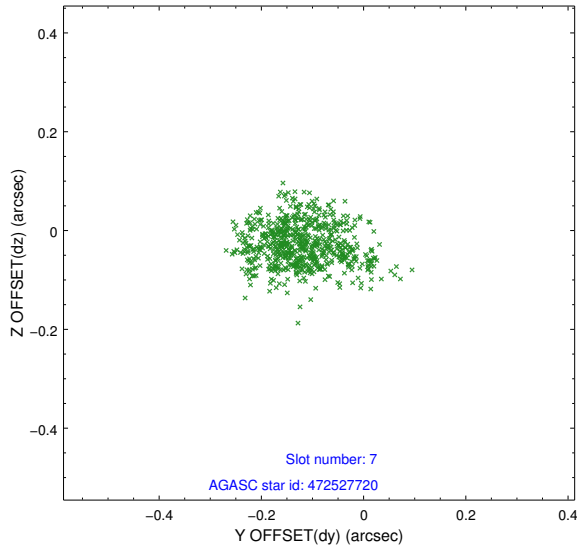
### 2.4.3 Slot 5



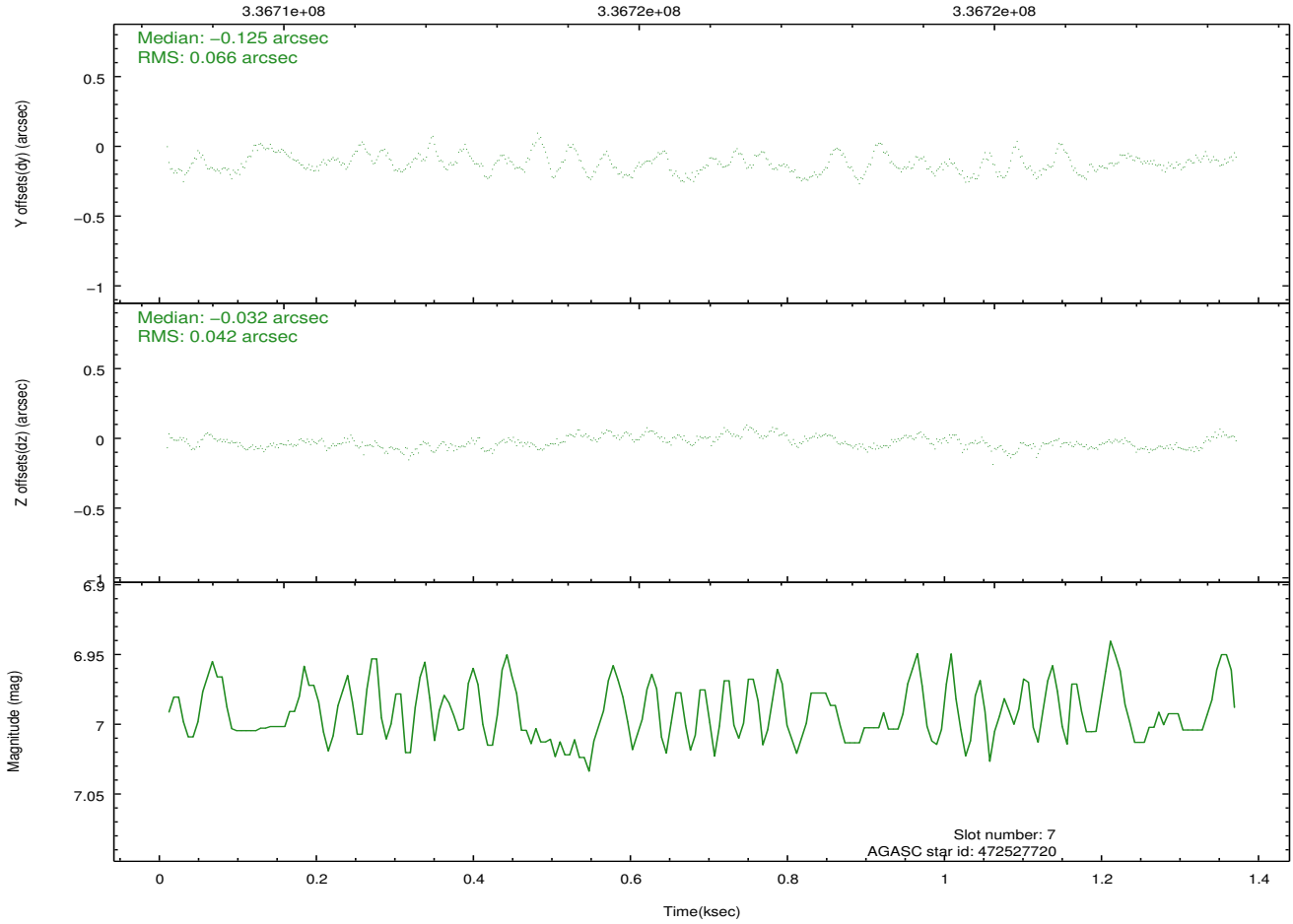
## 2.4.4 Slot 6



## 2.4.5 Slot 7

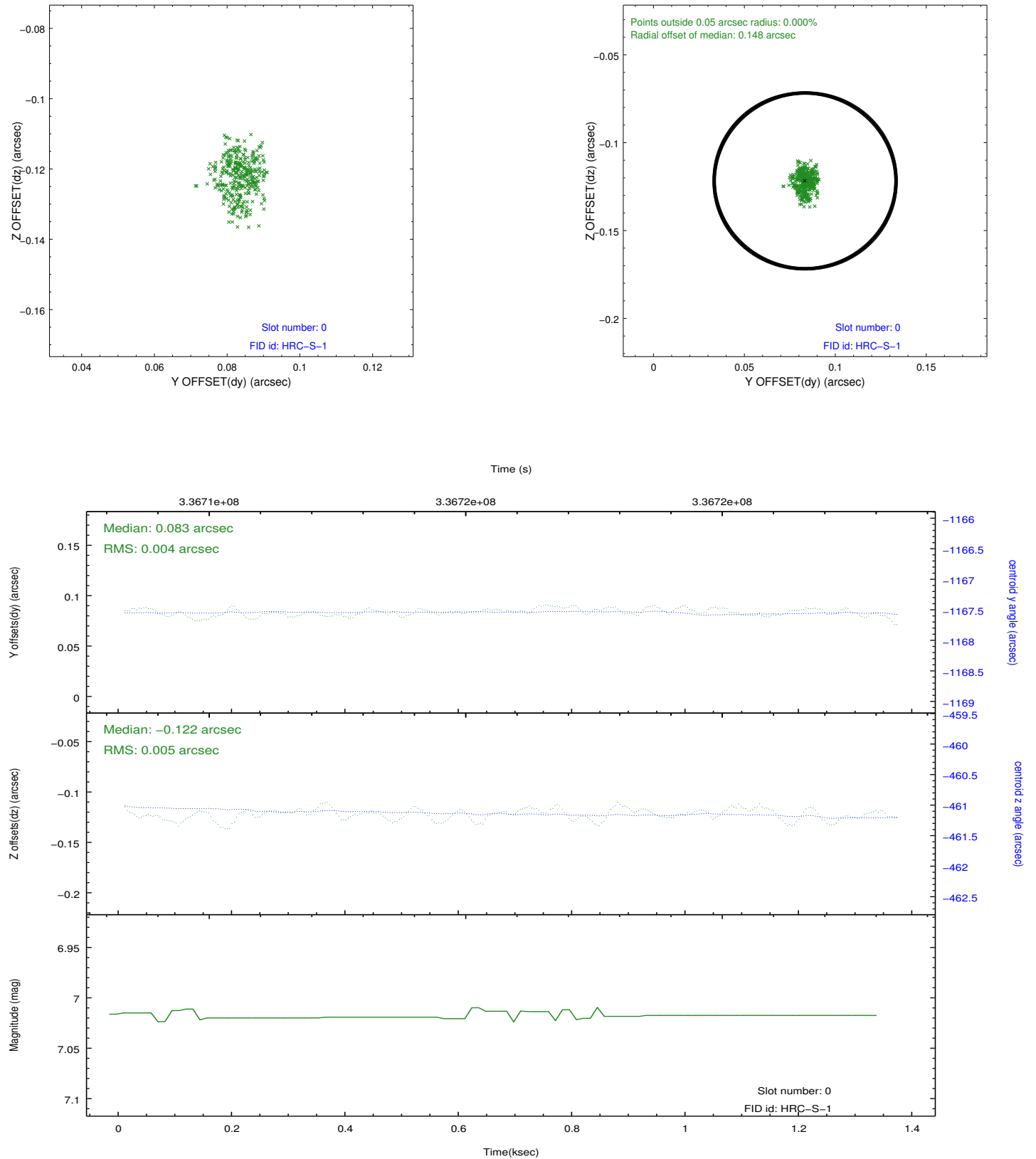


Time (s)

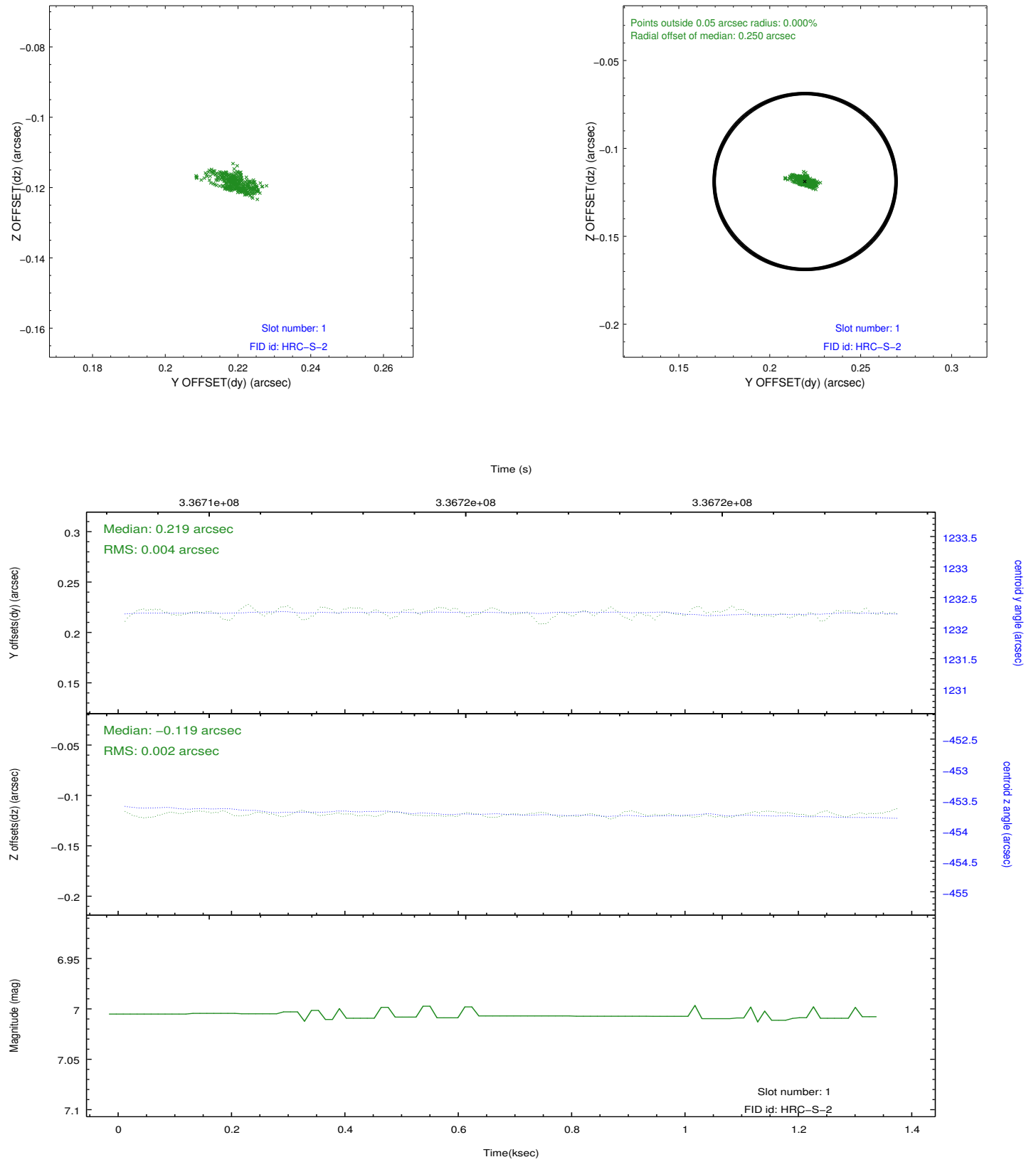


## 2.5 FID Slots

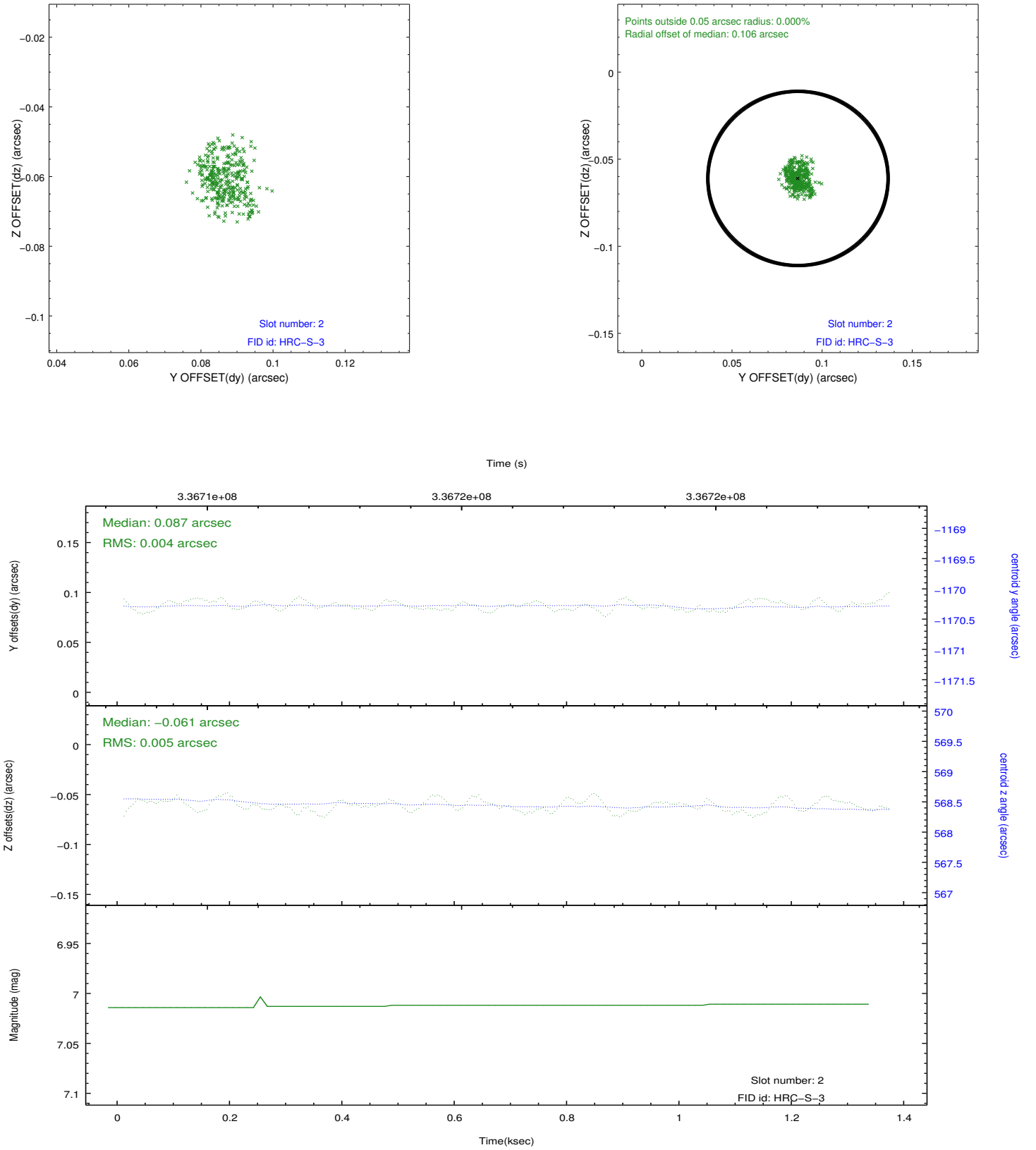
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.08.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.33352506

### A.2 Comments