

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9655 - L2 Version 3  
Chandra X-Ray Center

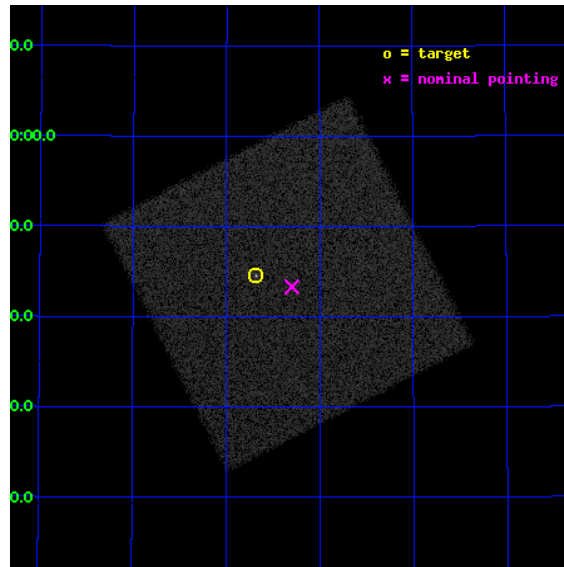
L2 Processing Date : Aug 12 2012

## 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

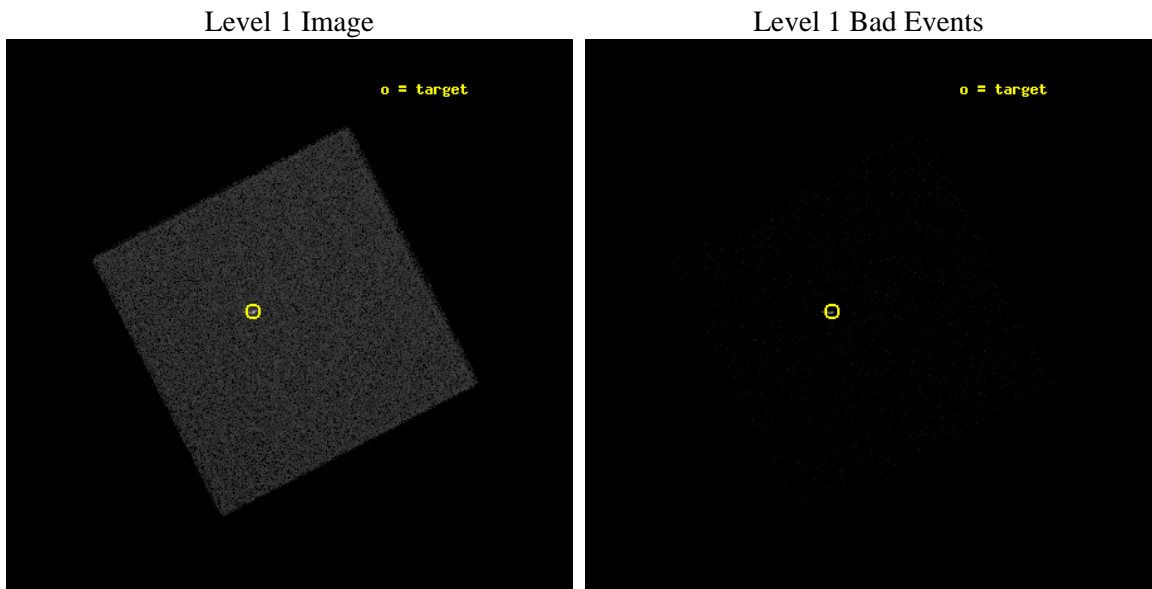
seq_num	290778	Sequence number
obs_id	9655	Observation id
title	AO9 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.07426370559	Nominal RA [deg]
dec_nom	45.722185656576	Nominal Dec [deg]
roll_nom	197.90564290931	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1360.4313168526	[s]
livetime	1345.6938566616	Ontime multiplied by DTCOR
l2events	91555	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	1360.4313168526	[s]
caldbver	4.5.1.1	&#160	l1events	163567	Number of level 1 events
date	2012-08-12T19:38:55	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

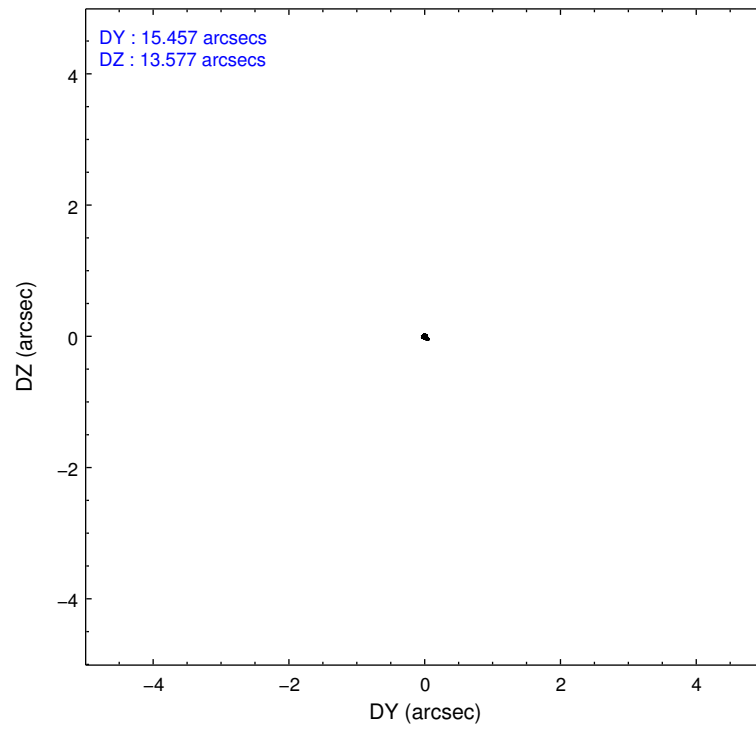
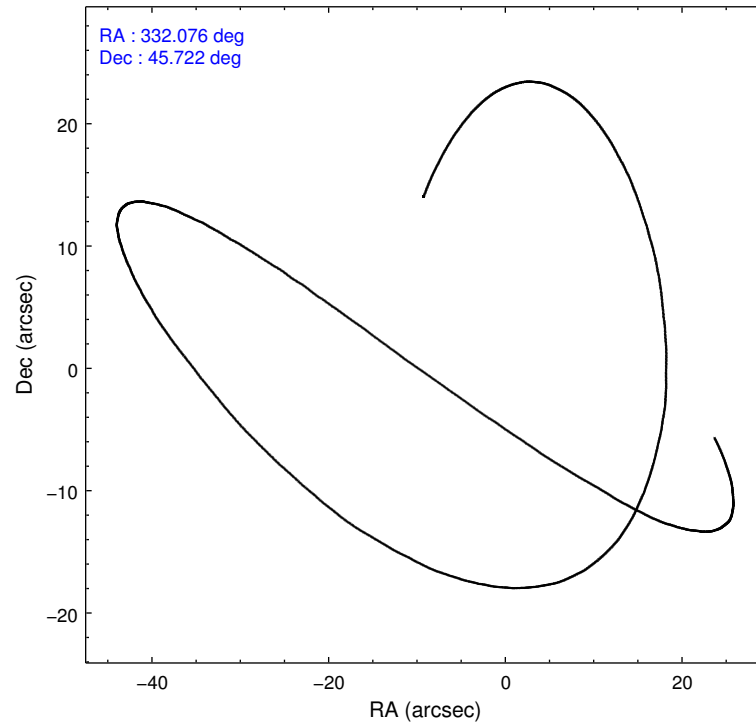
	<b>segment 0</b>
level 1 events	163567
rejected events	31940
rejected %	19%

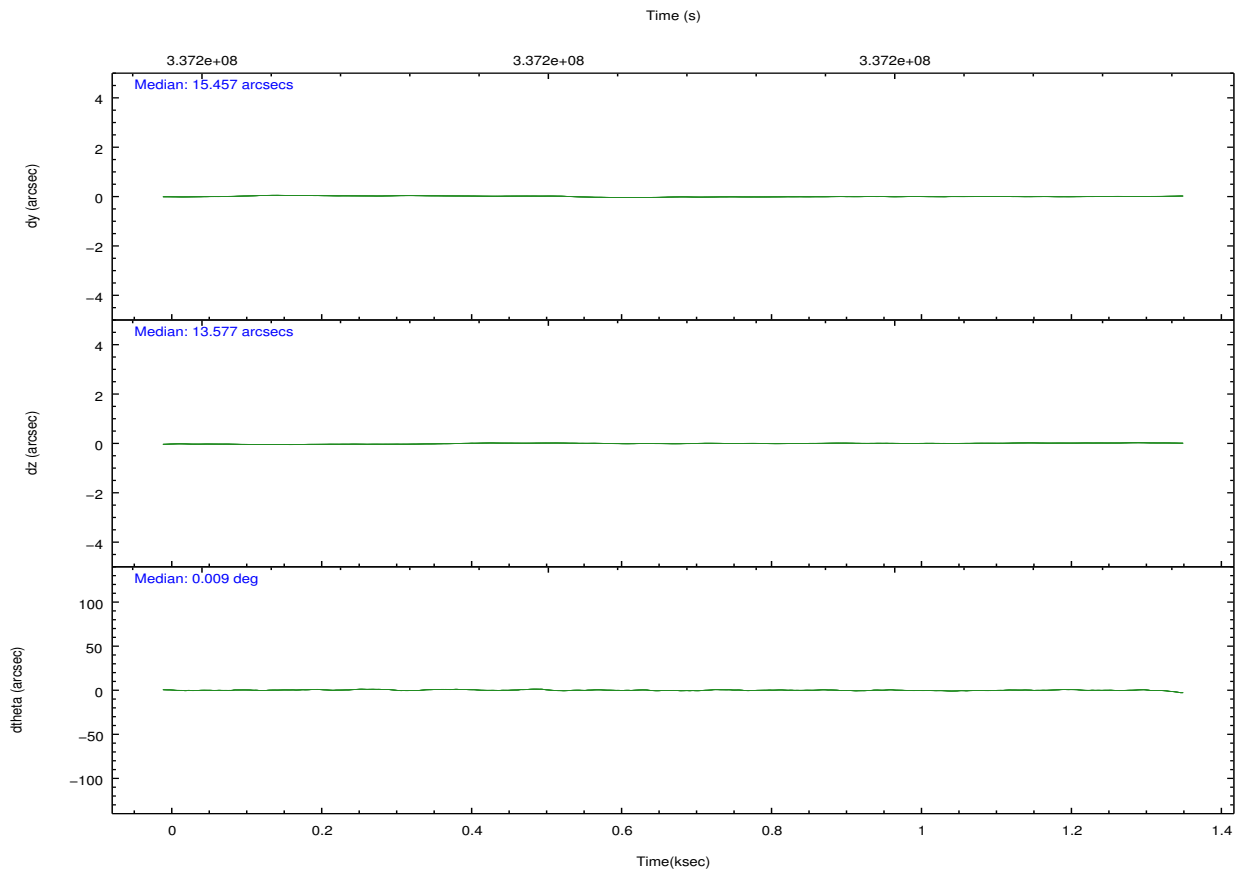
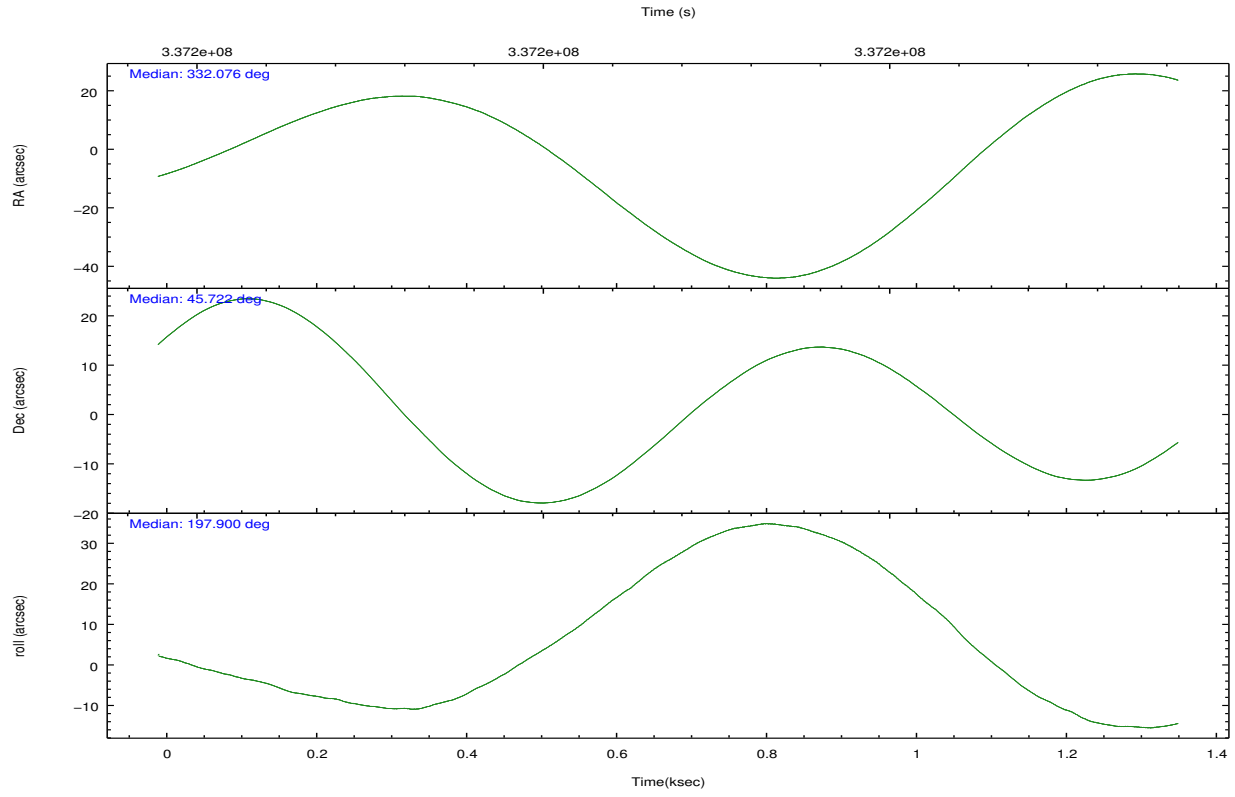
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.098558	332.0742637055897
[deg] Pointing Dec	45.742612	45.72218565657649
[deg] Pointing Roll	197.983735	197.9056429093116
[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)	337195177.184000	337194800.90643
Observation start date	2008-09-07T17:18:32	2008-09-07T17:13:20
[s] Observation end time (MET)	337196357.184000	337196490.61901
Observation end date	2008-09-07T17:38:12	2008-09-07T17:41:30

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

## 2.3 Aspect





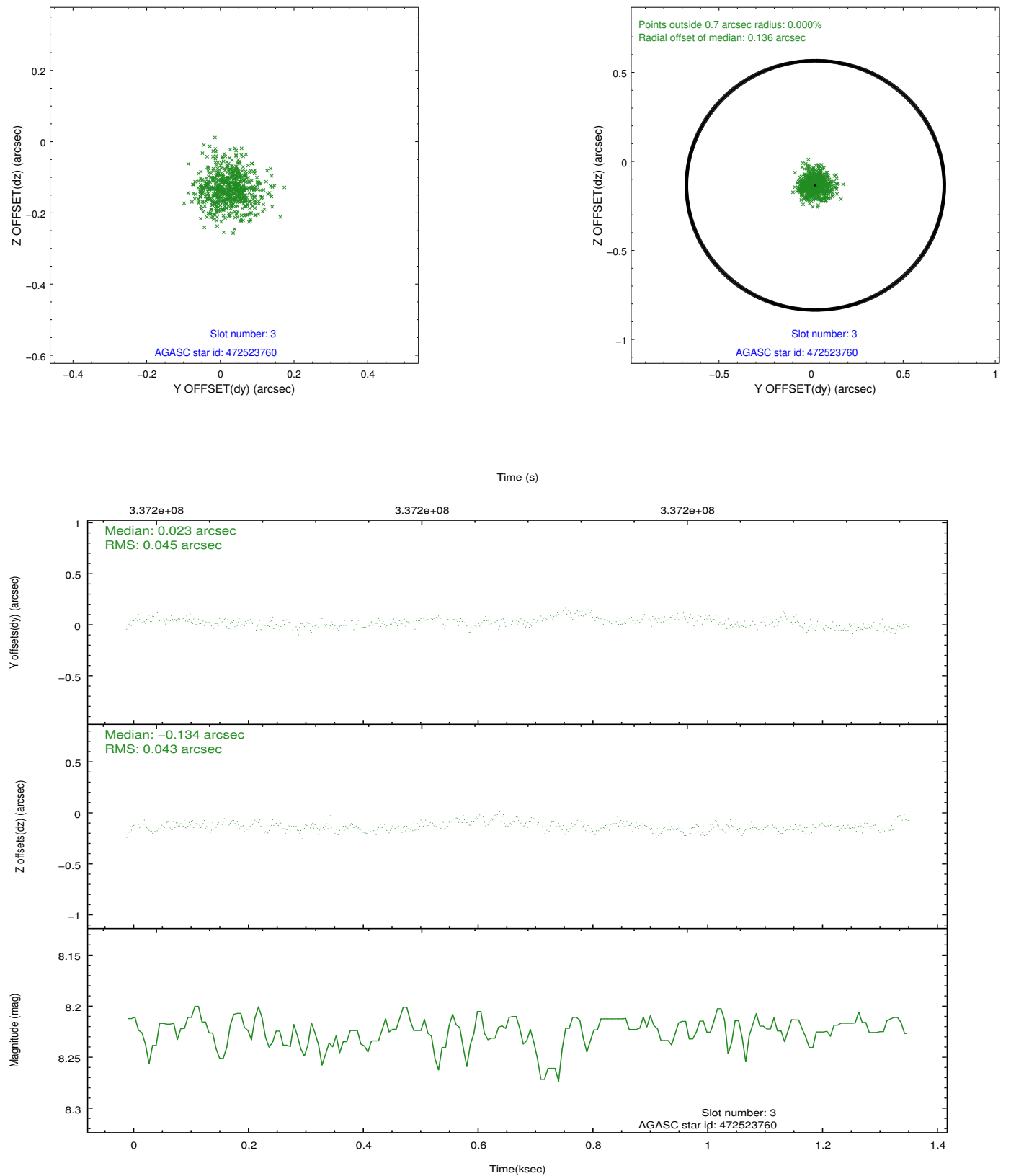
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.00	332	-0.066	0.017	0.007	0.011	0.000000	0.000000	-771.36	-1301.59
1	FID	HRC-I-2	7.03	332	0.231	-0.137	0.006	0.010	0.000000	0.000000	839.25	-1307.25
2	FID	HRC-I-3	7.08	332	-0.046	0.031	0.006	0.012	0.000000	0.000000	-1197.27	999.06
3	GUIDE	472523760	8.22	665	0.023	-0.134	0.066	0.109	331.645363	45.403260	1469.06	805.13
4	GUIDE	472527720	6.99	665	-0.241	-0.048	0.077	0.141	331.460205	45.112509	2246.09	1651.97
5	GUIDE	472535576	7.87	665	-0.130	0.082	0.067	0.103	331.438373	46.291802	956.24	-2391.49
6	GUIDE	472655152	9.44	664	0.110	0.084	0.121	0.190	332.504239	45.862991	-1097.11	-104.29
7	GUIDE	472665256	9.01	663	0.244	0.008	0.091	0.151	332.808125	46.195041	-2185.24	-1011.18

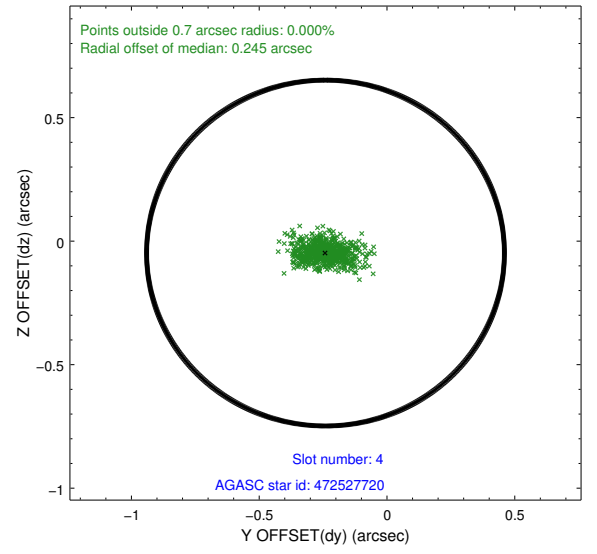
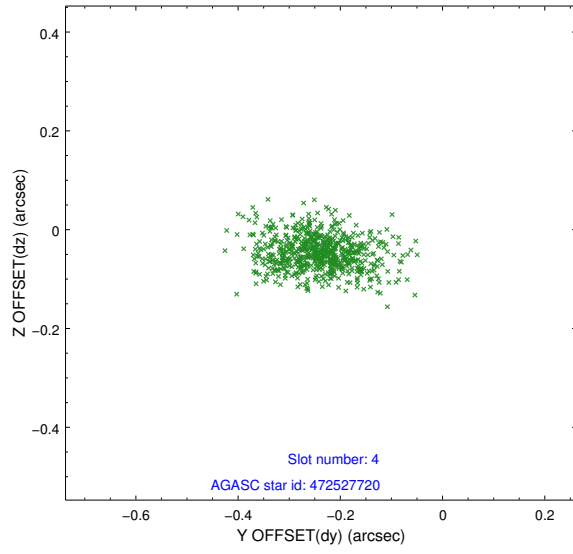


## 2.4 Star Slots

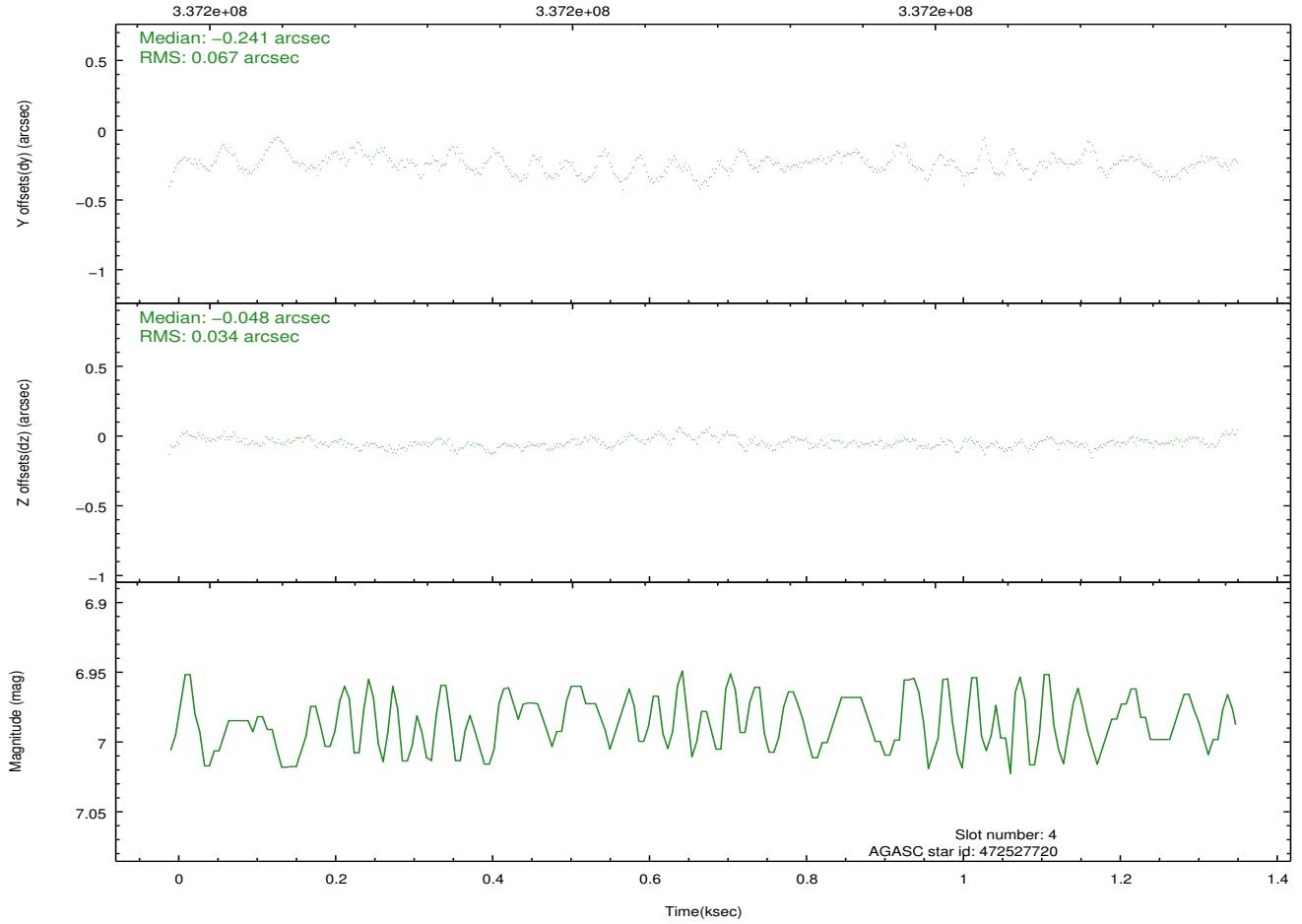
### 2.4.1 Slot 3



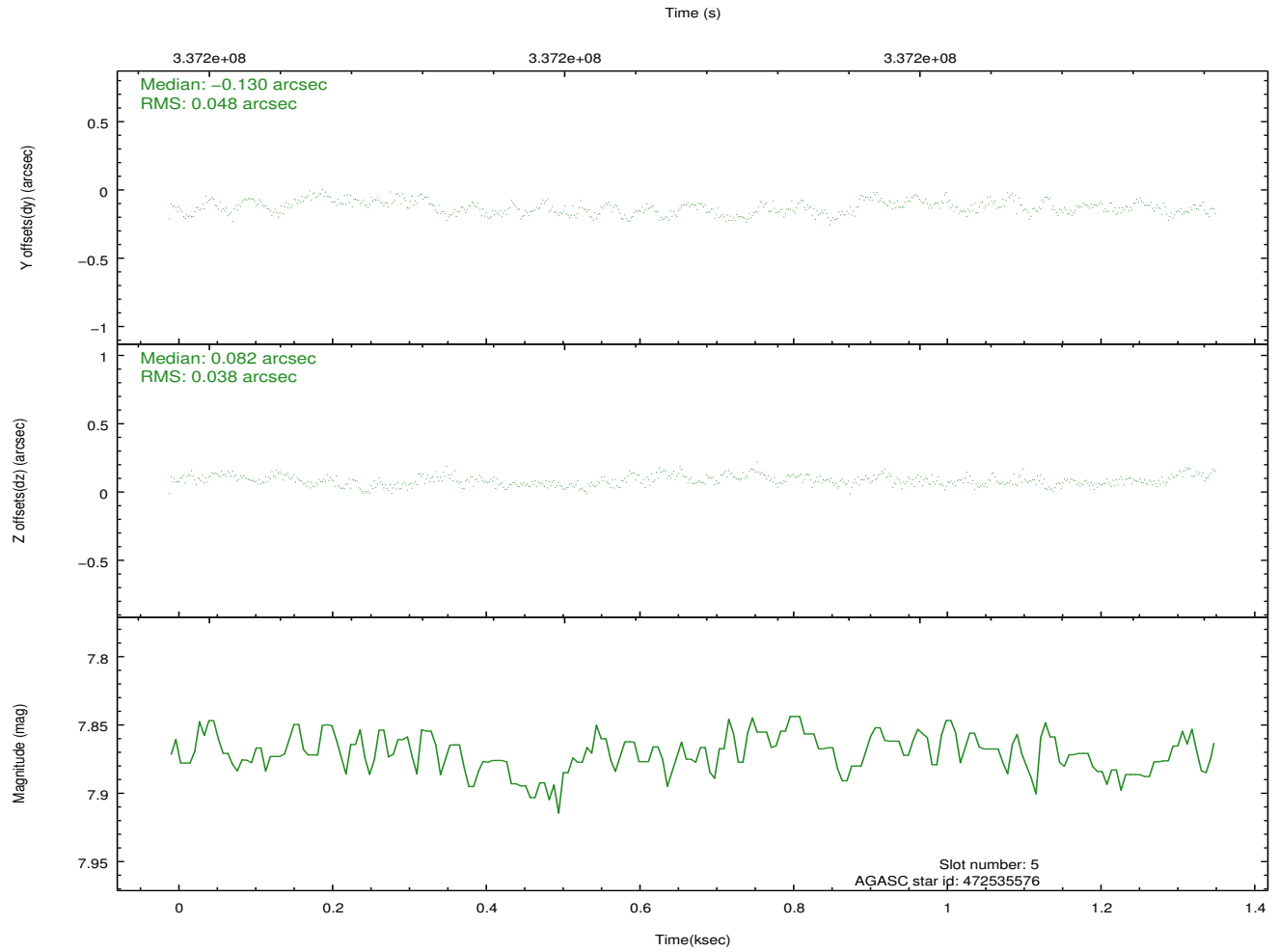
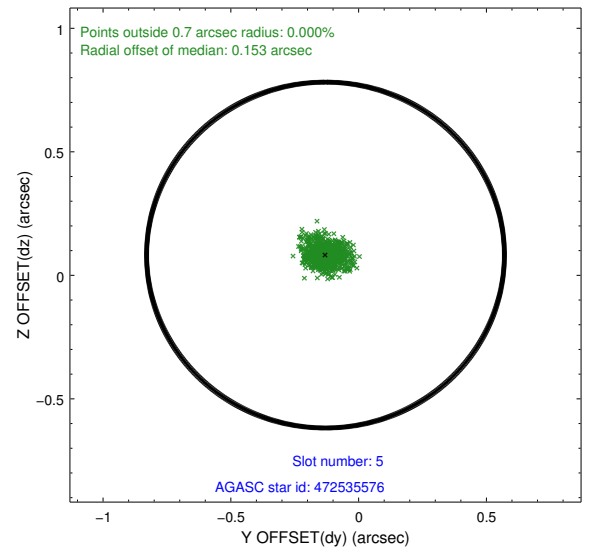
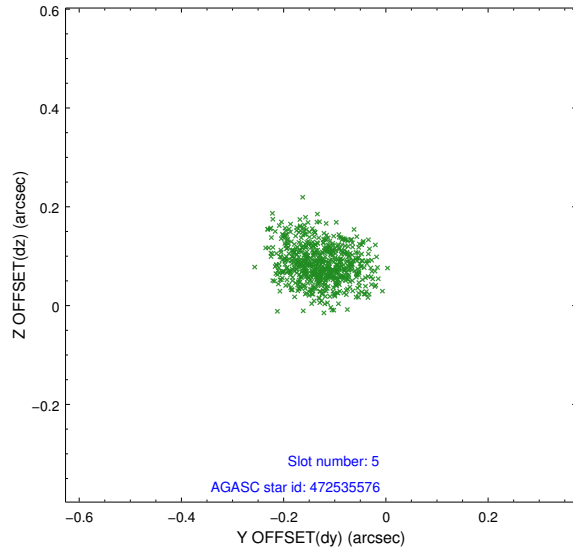
## 2.4.2 Slot 4



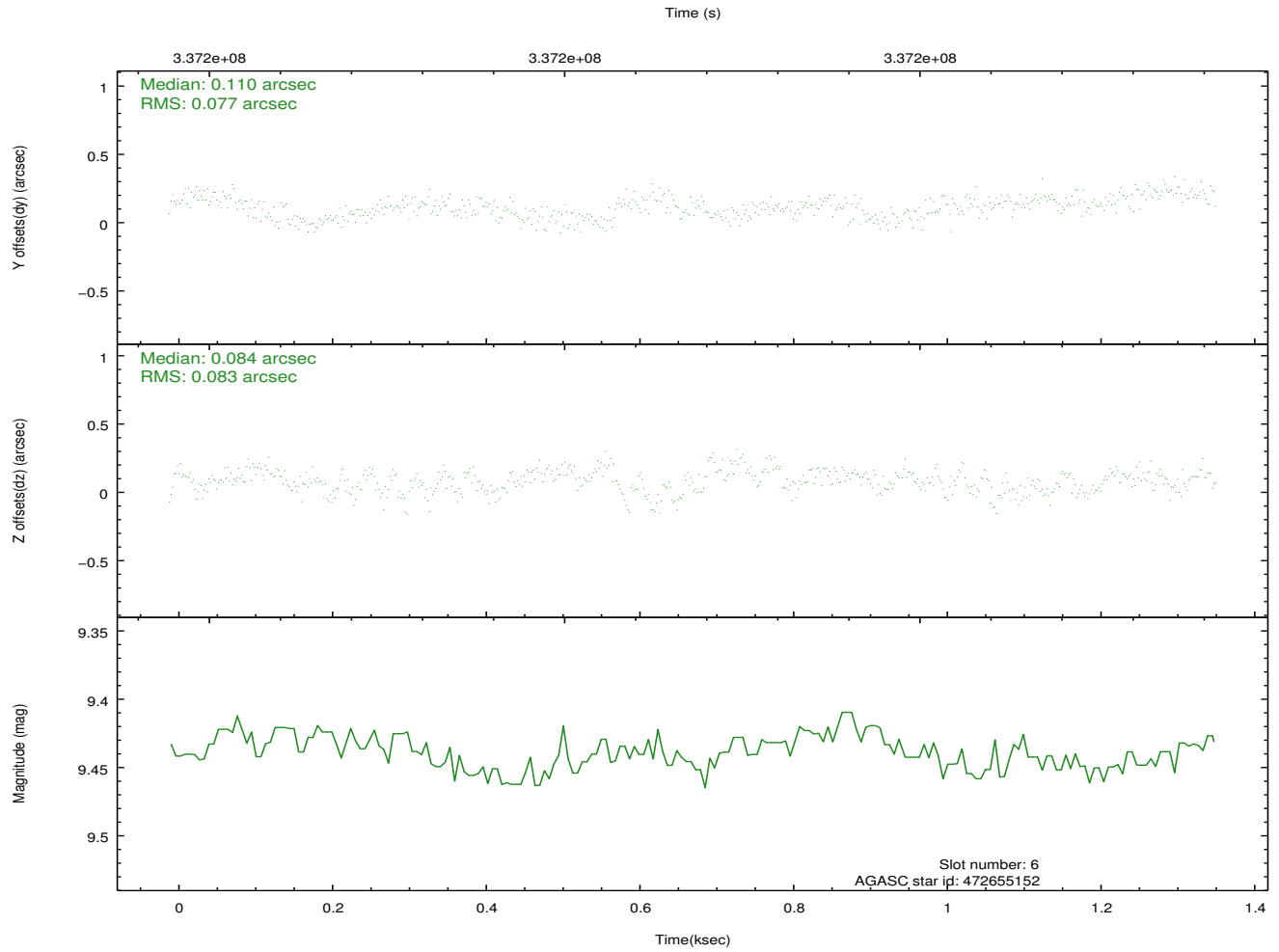
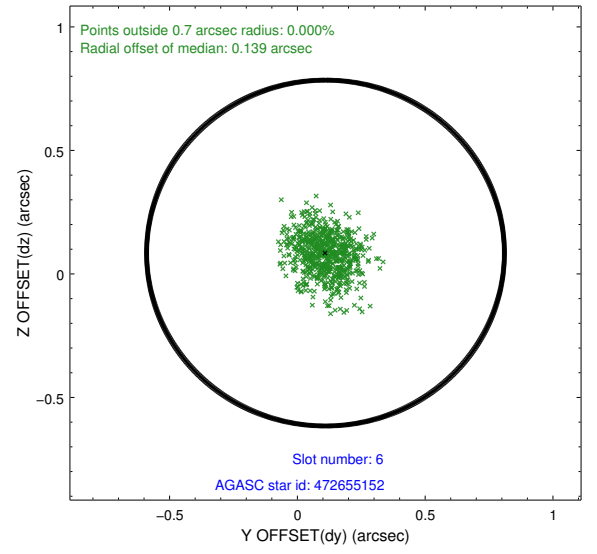
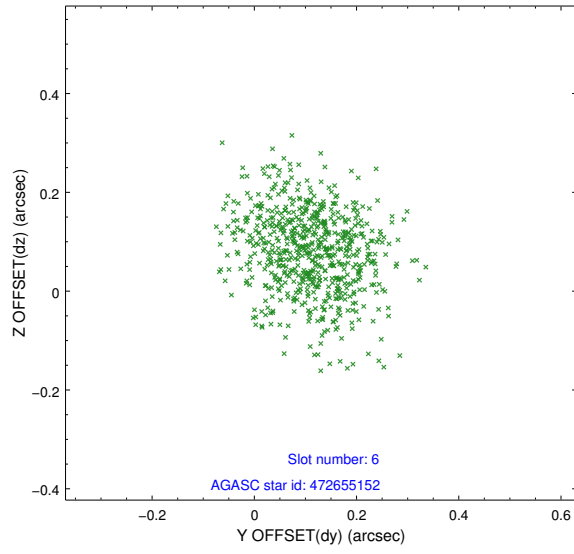
Time (s)



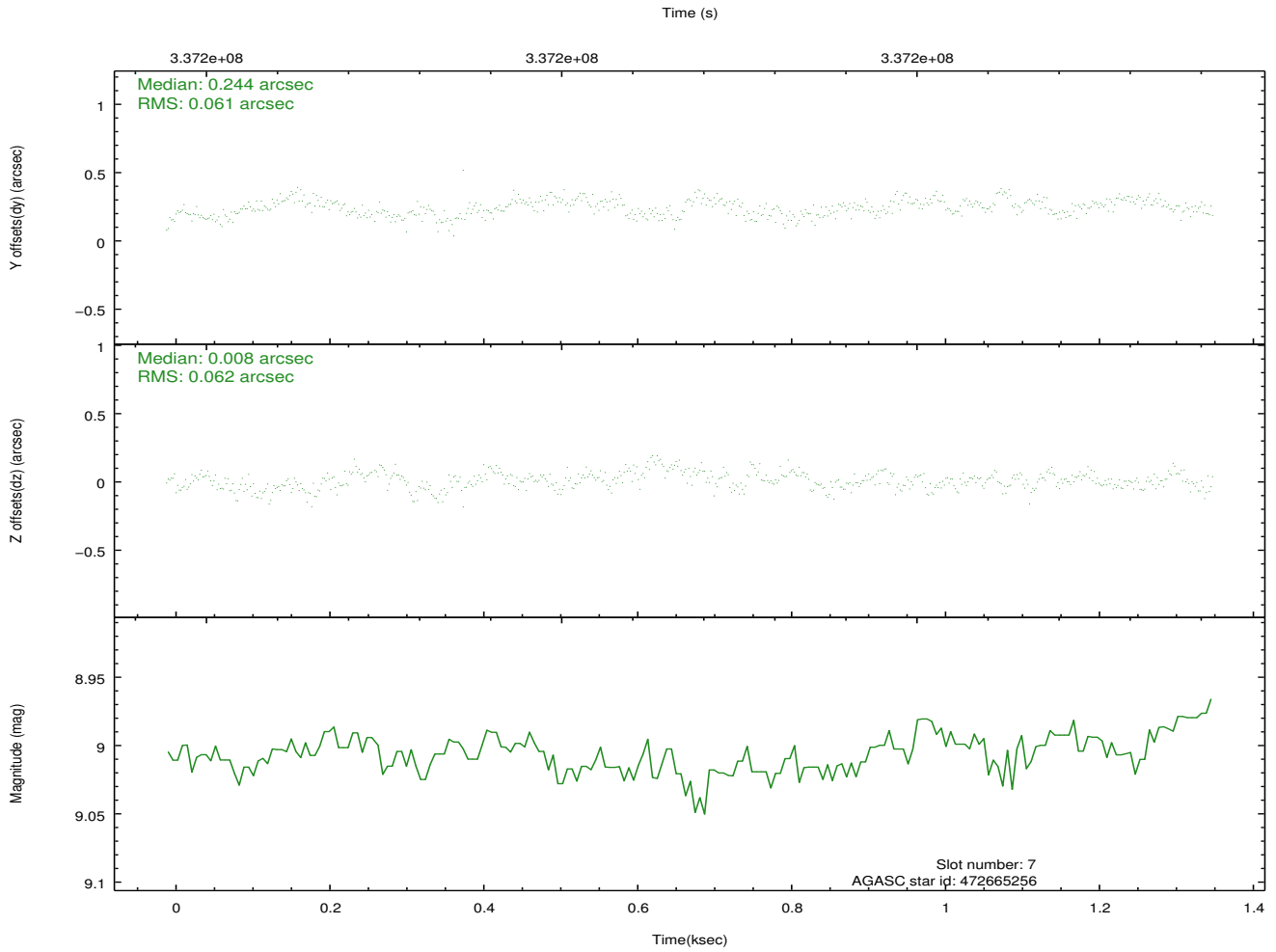
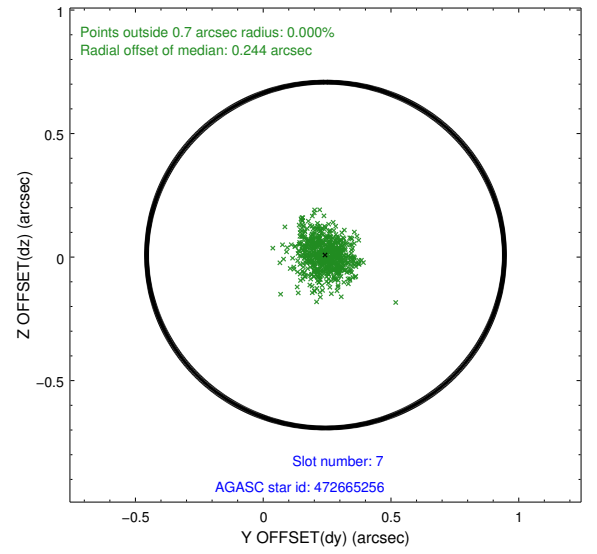
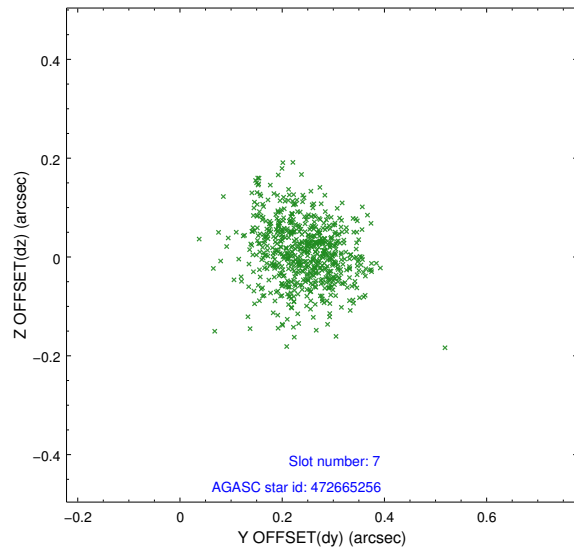
### 2.4.3 Slot 5



## 2.4.4 Slot 6

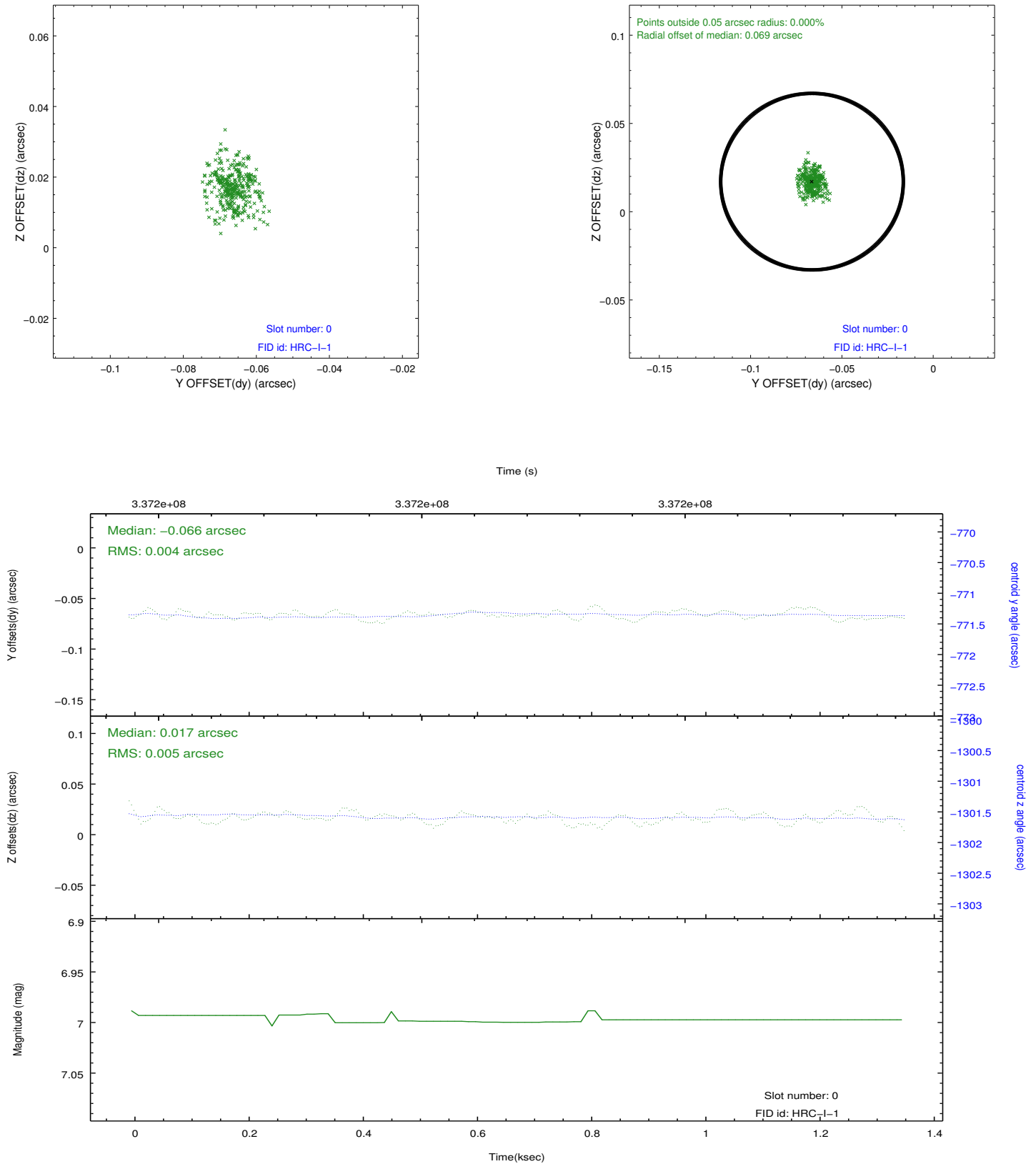


## 2.4.5 Slot 7

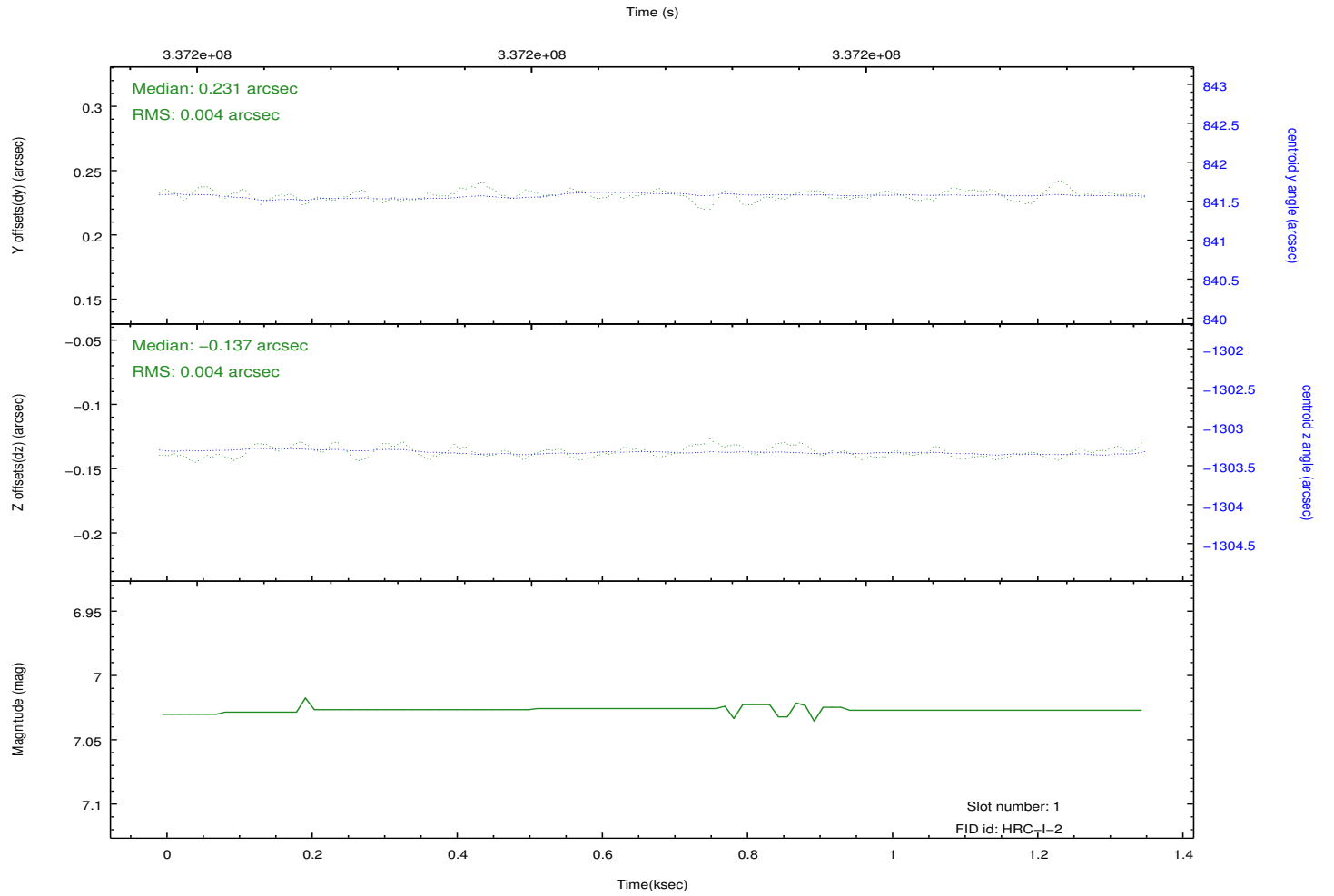
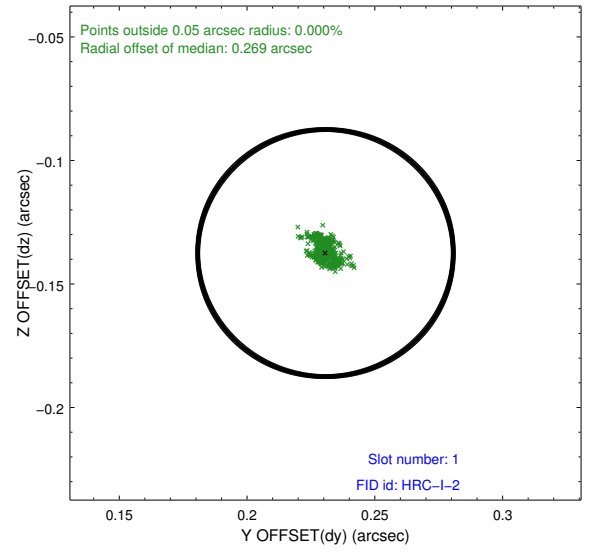
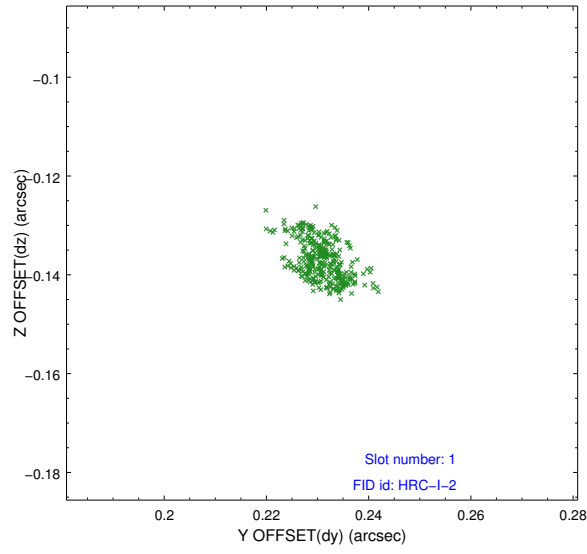


## 2.5 FID Slots

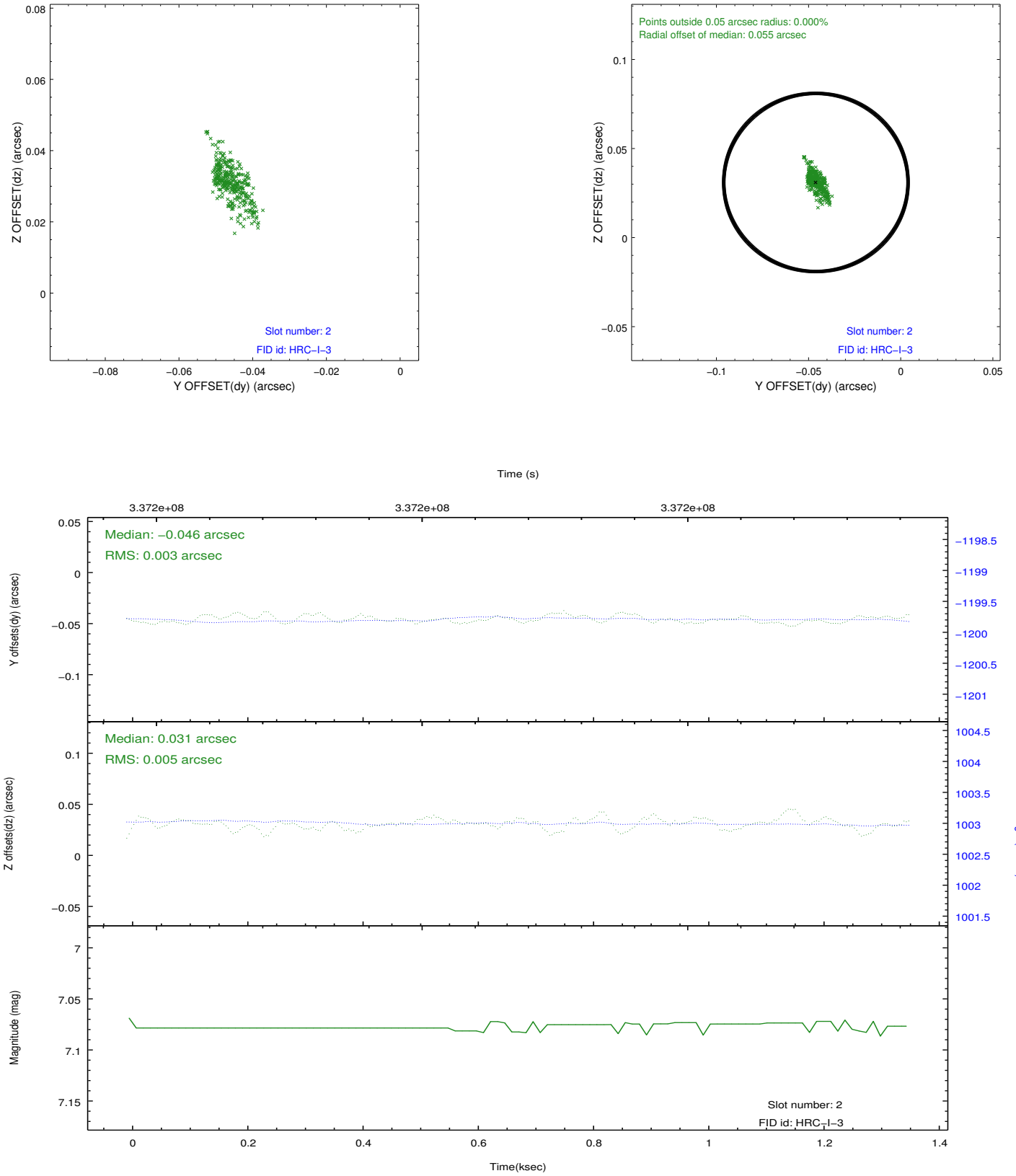
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.08.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.36043131

### A.2 Comments