

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9684 - L2 Version 3  
Chandra X-Ray Center

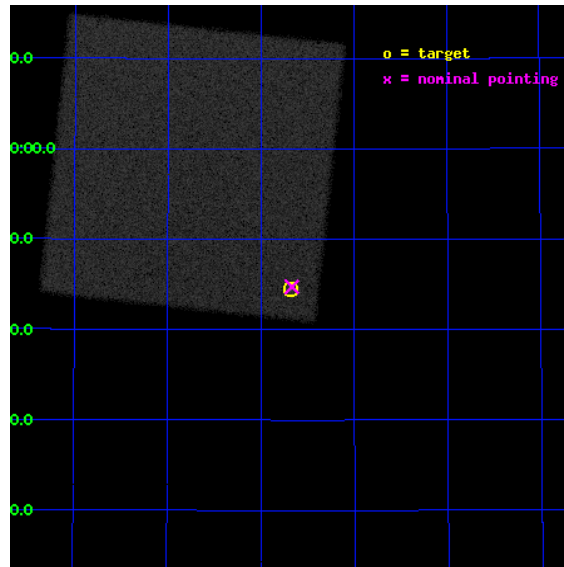
L2 Processing Date : Aug 12 2012

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# 1 Front

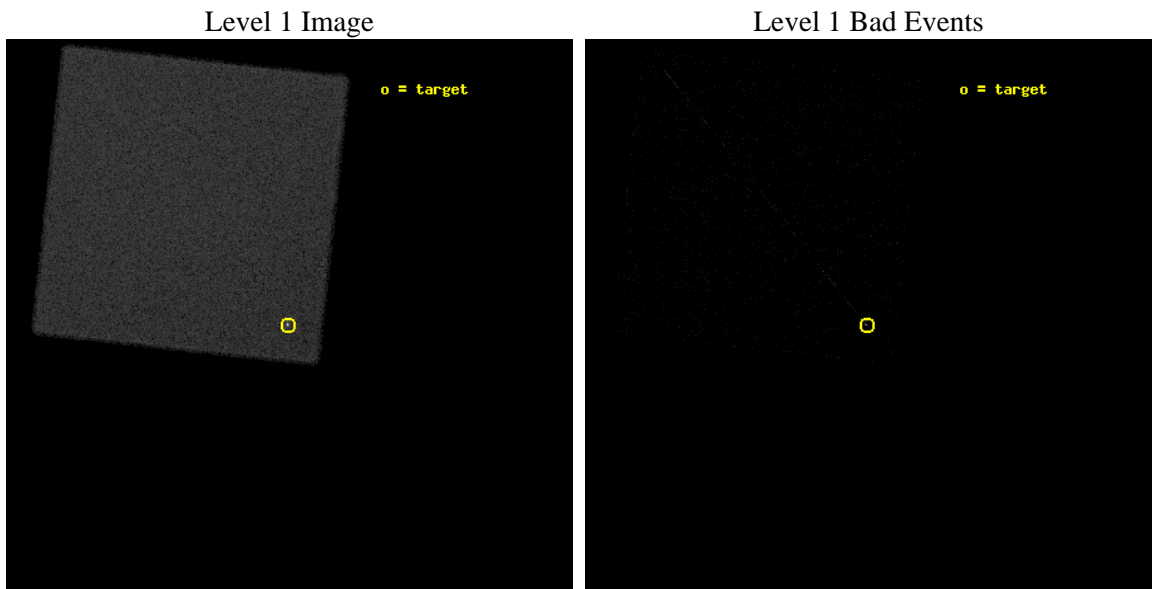
seq_num	290807	Sequence number
obs_id	9684	Observation id
title	AO9 Calibration Observations to Measure the Relative Alignment of the 4 Focal Plane Detectors	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.16695740211	Nominal RA [deg]
dec_nom	45.746102489576	Nominal Dec [deg]
roll_nom	141.20669379661	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3184.9314060211	[s]
livetime	3150.6912419661	Ontime multiplied by DTCOR
l2events	209911	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	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3184.9314060211	[s]
caldbver	4.5.1.1	&#160	l1events	323076	Number of level 1 events
date	2012-08-12T14:44:50	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

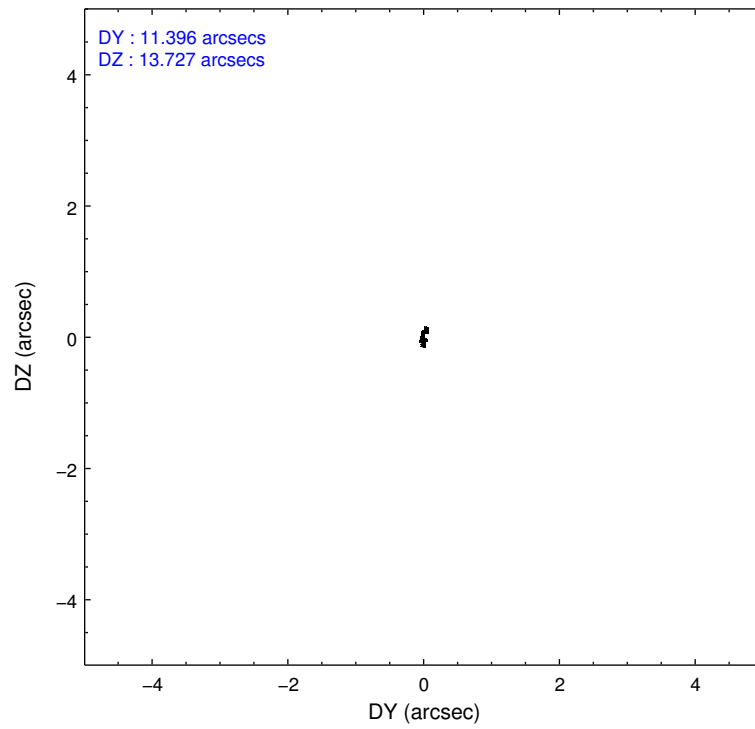
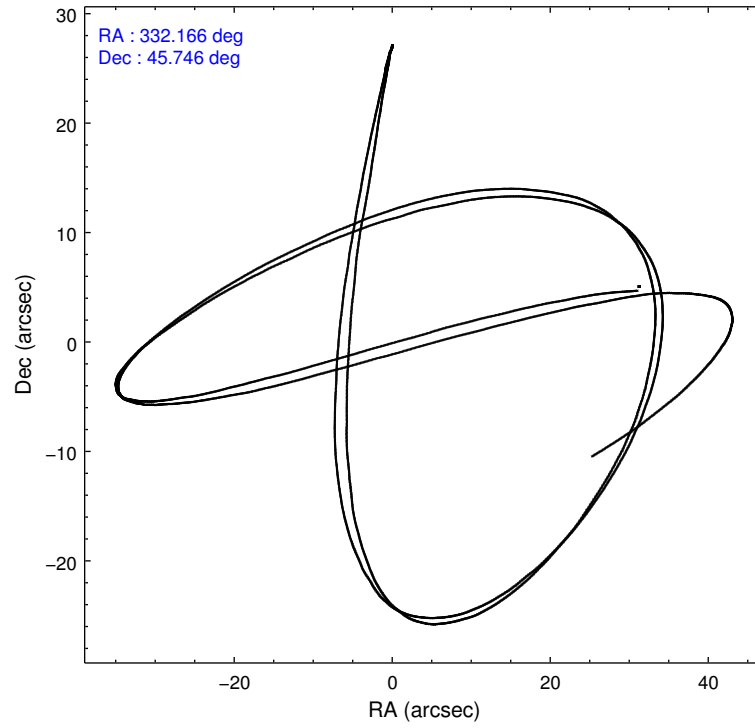
	<b>segment 0</b>
level 1 events	323076
rejected events	19228
rejected %	5%

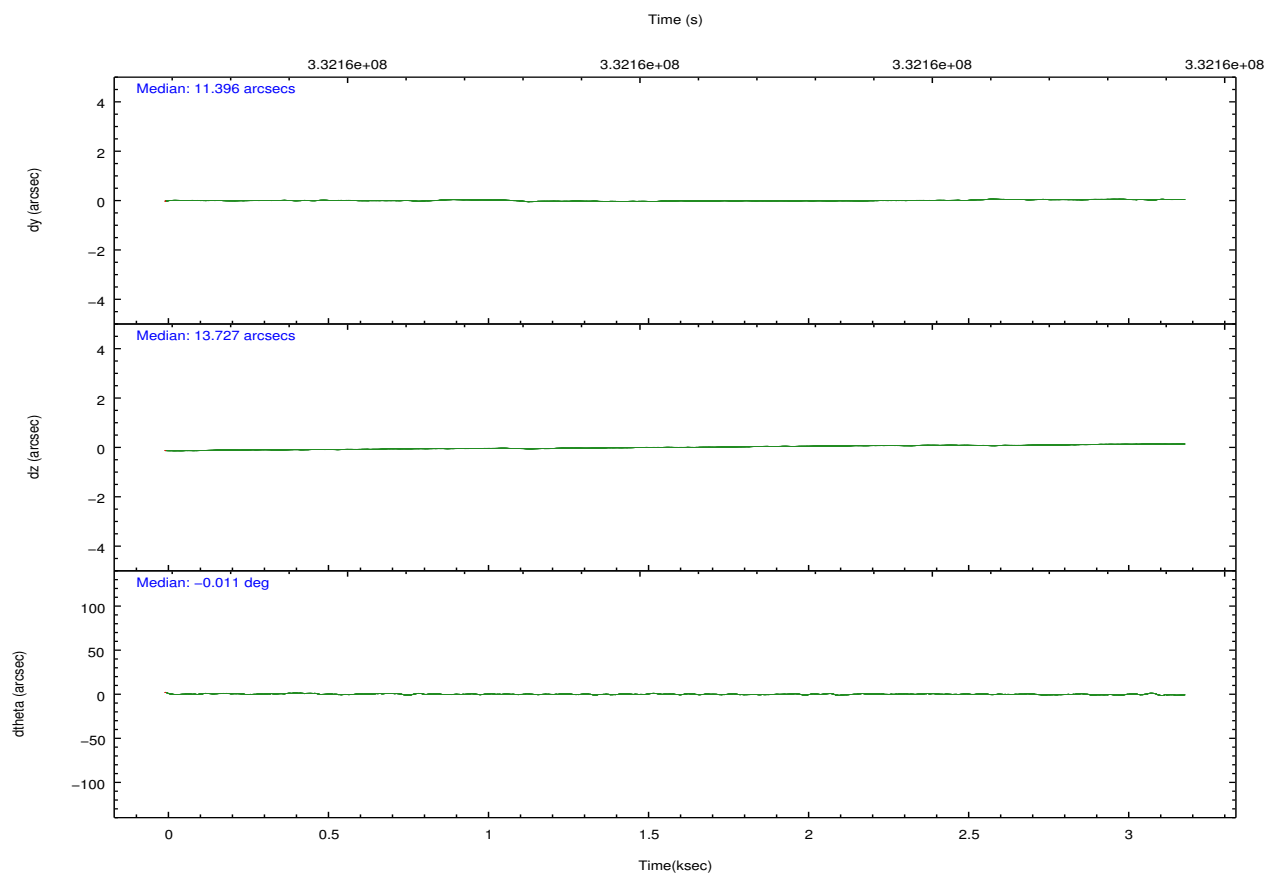
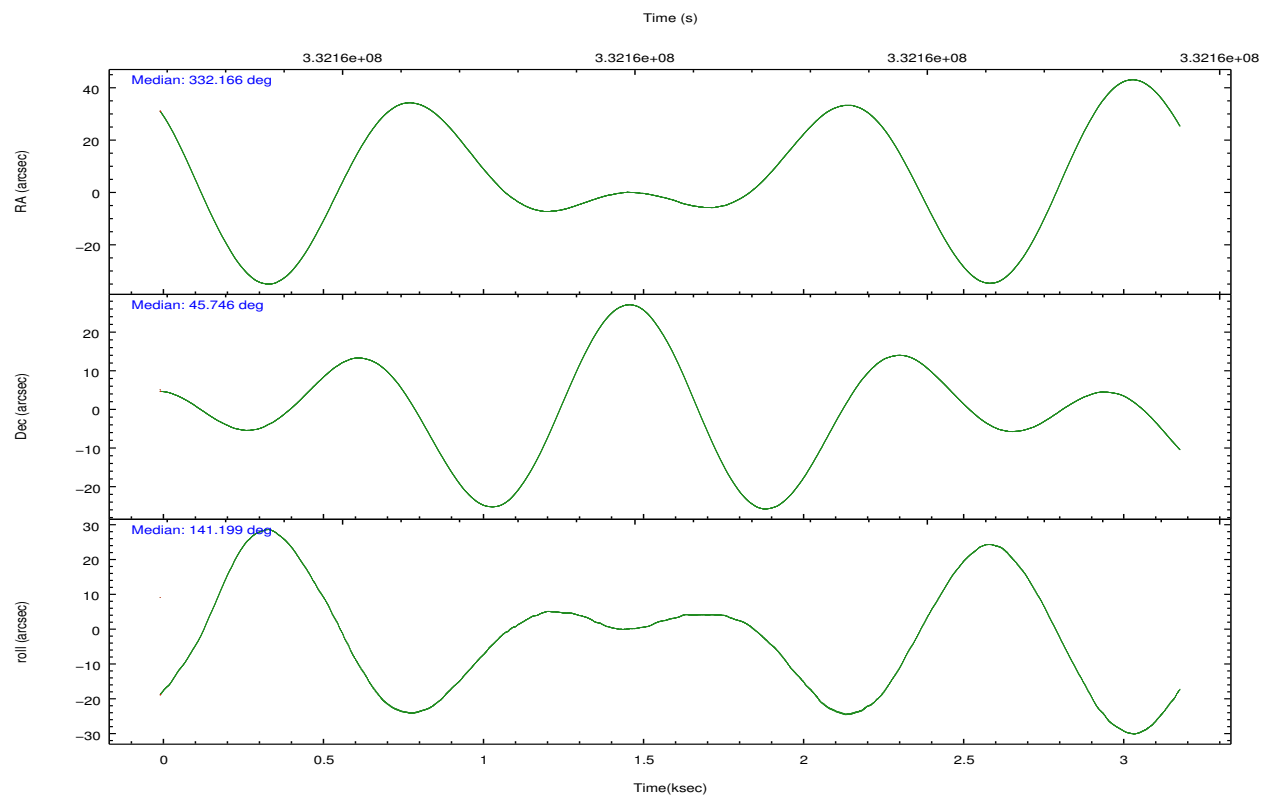
## 2.2 Compared Parameters

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	332.205657	332.1669574021094
[deg] Pointing Dec	45.742426	45.74610248957601
[deg] Pointing Roll	141.274464	141.2066937966113
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	176.985494	176.9901970227131
[mm] SIM translation stage offset	-50	-50.00470813111153
[s] Observation start time (MET)	332157712.184000	332157309.23713
Observation start date	2008-07-11T10:00:47	2008-07-11T09:55:09
[s] Observation end time (MET)	332160712.184000	332160845.99981
Observation end date	2008-07-11T10:50:47	2008-07-11T10:54:05

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

## 2.3 Aspect





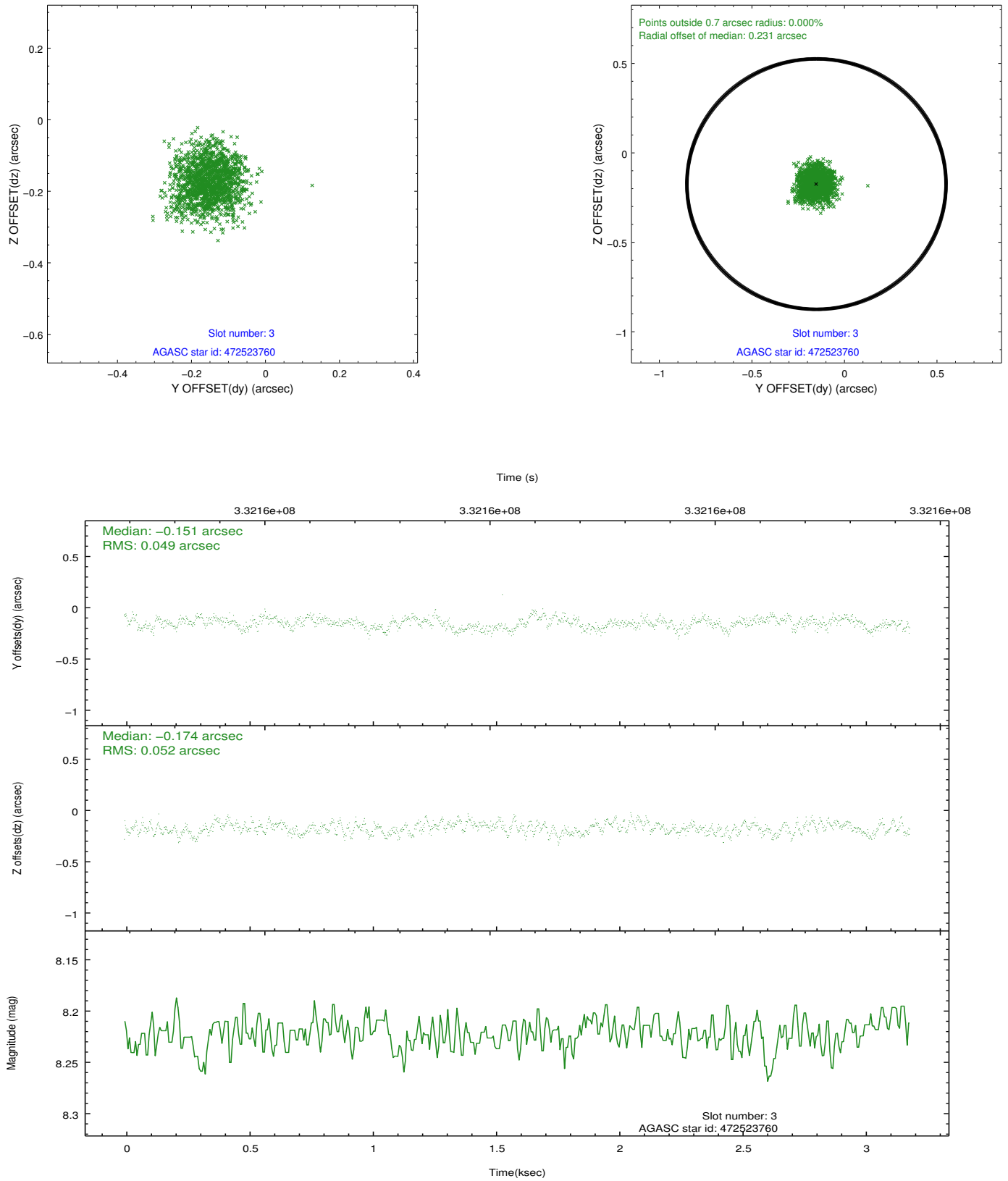
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.88	778	0.056	-1.403	0.008	0.014	0.000000	0.000000	-766.34	-2330.50
1	FID	HRC-I-2	6.97	778	-0.263	0.572	0.006	0.010	0.000000	0.000000	846.02	-2333.58
2	FID	HRC-I-3	7.12	778	0.323	0.726	0.006	0.010	0.000000	0.000000	-1193.20	-28.06
3	GUIDE	472523760	8.22	1555	-0.151	-0.174	0.077	0.121	331.645363	45.403260	343.62	1835.14
4	GUIDE	472533912	9.14	1554	-0.090	-0.047	0.131	0.204	331.791136	46.368695	2215.65	-1114.89
5	GUIDE	472654568	9.42	1555	0.101	-0.111	0.109	0.174	332.194449	45.063576	-1505.52	1923.90
6	GUIDE	472655152	9.42	1550	0.185	0.013	0.125	0.203	332.504239	45.862991	-312.45	-806.27
7	GUIDE	472665256	9.01	1554	-0.037	0.318	0.098	0.159	332.808125	46.195041	-148.38	-2214.54

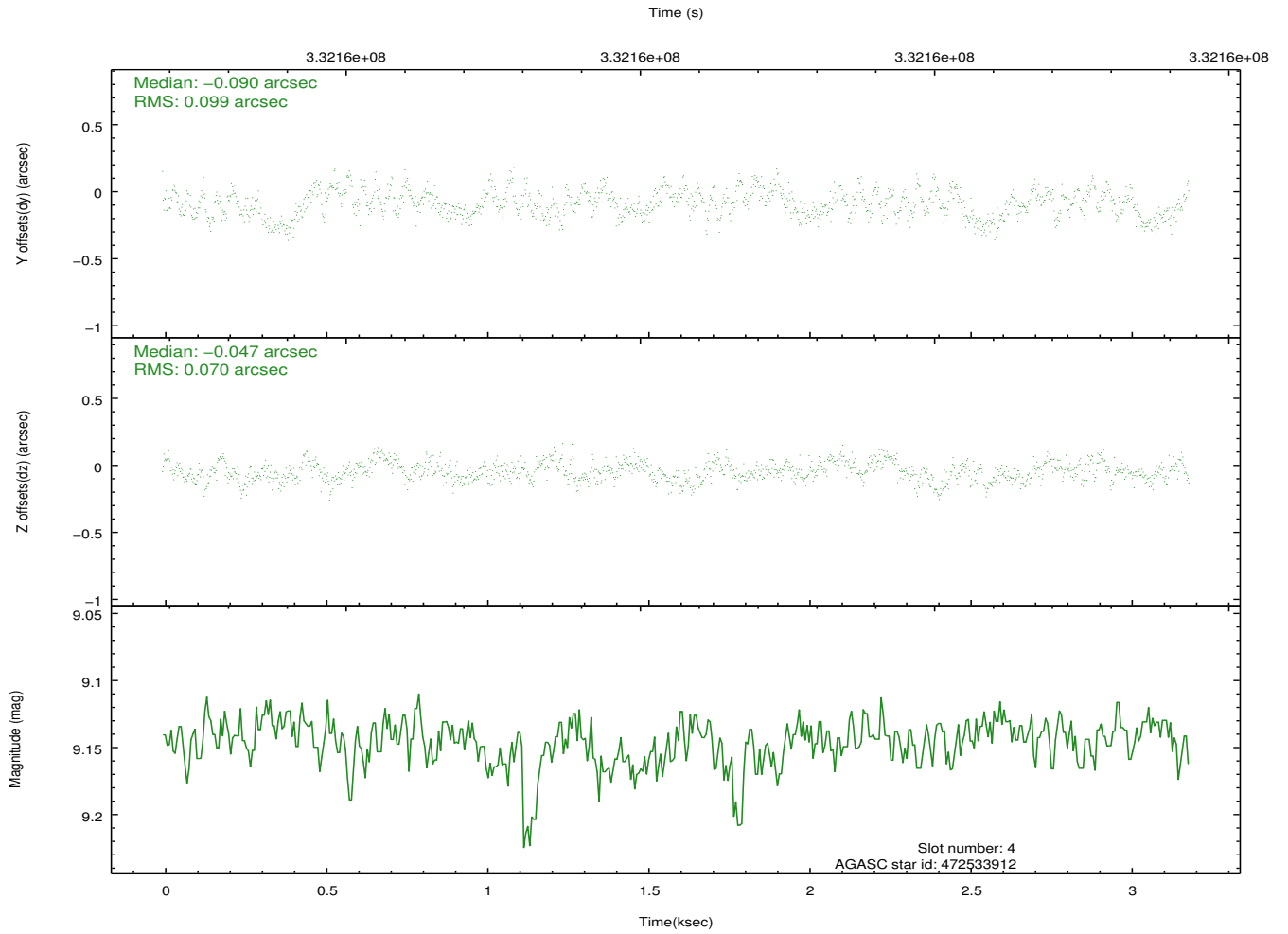
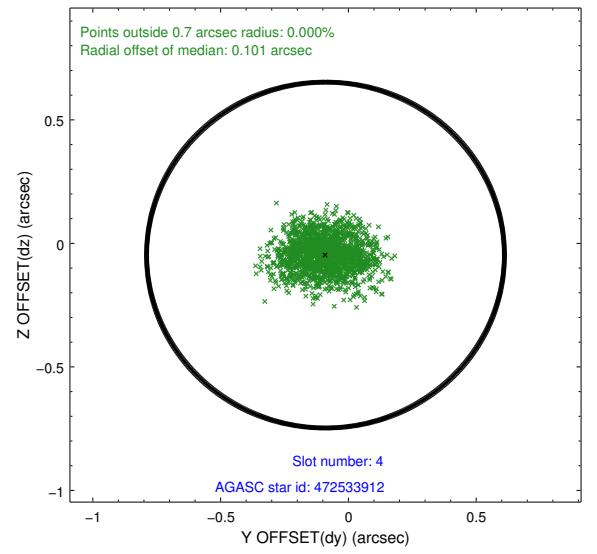
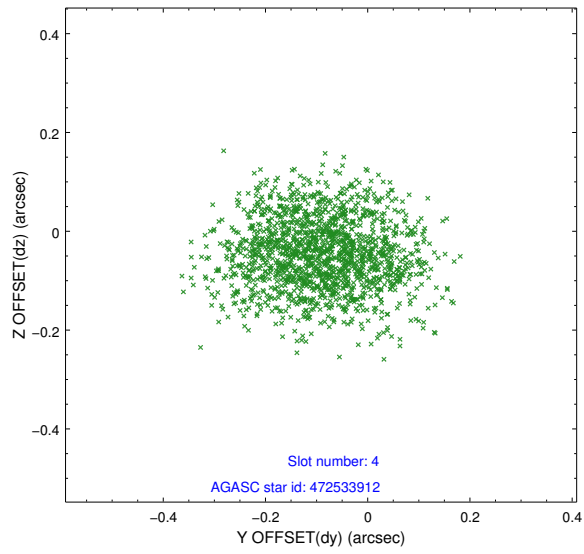


## 2.4 Star Slots

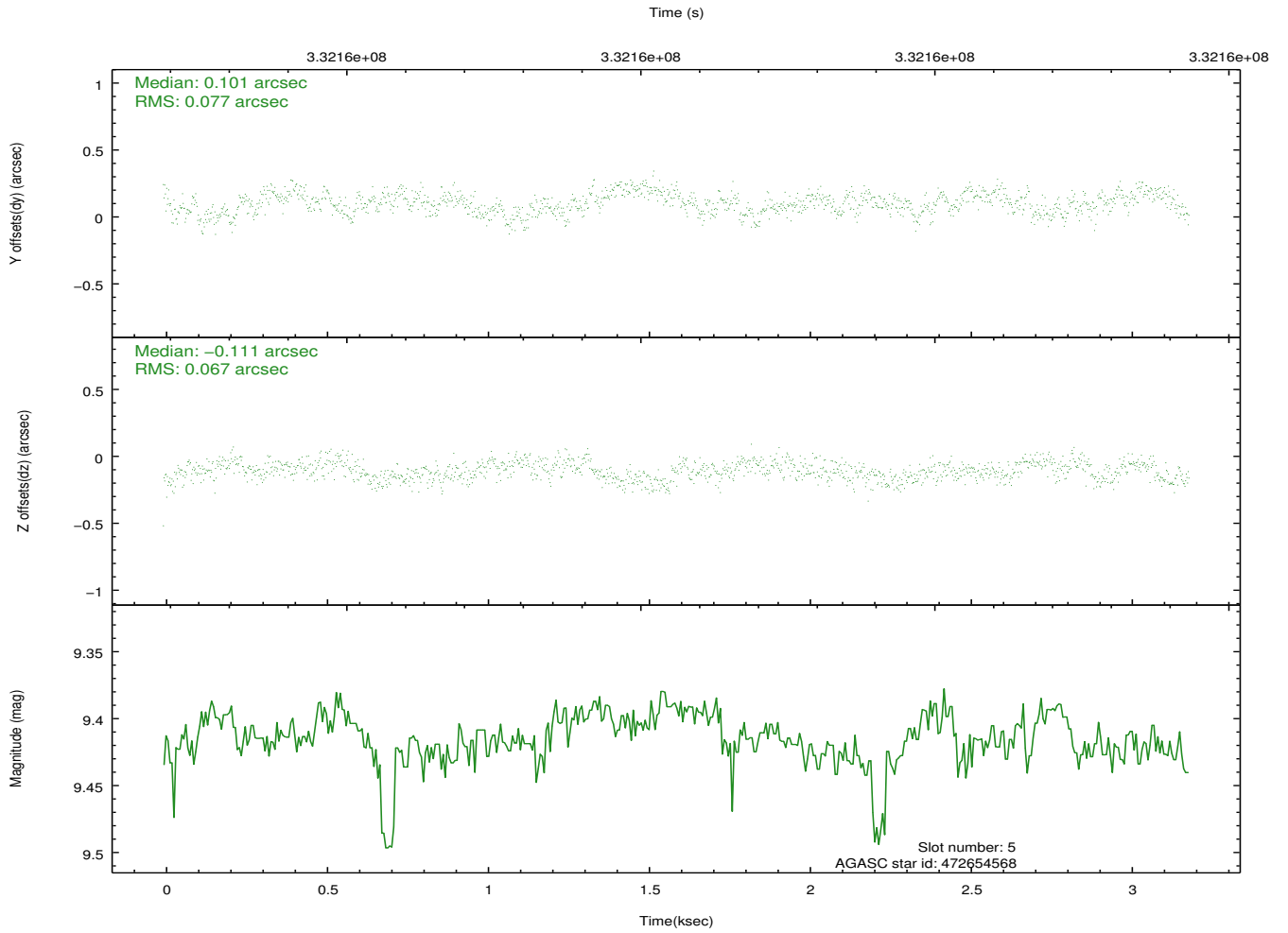
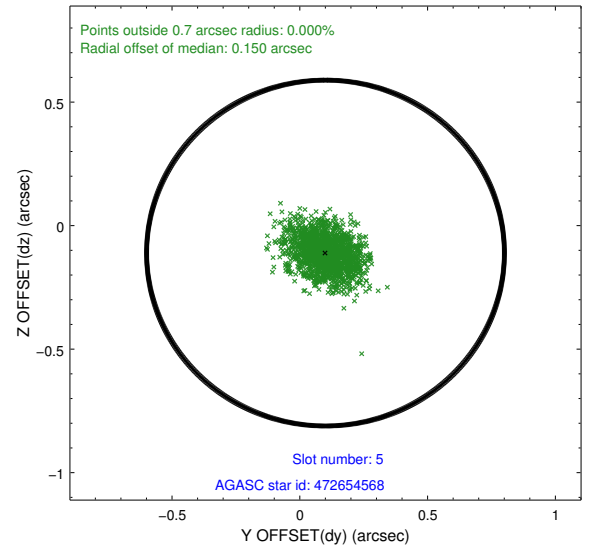
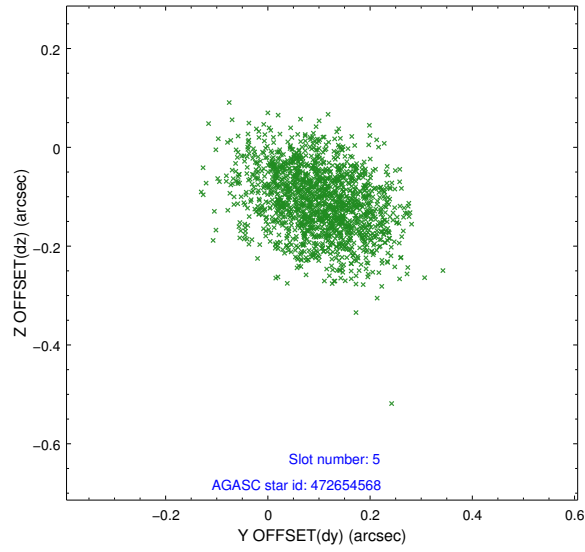
### 2.4.1 Slot 3



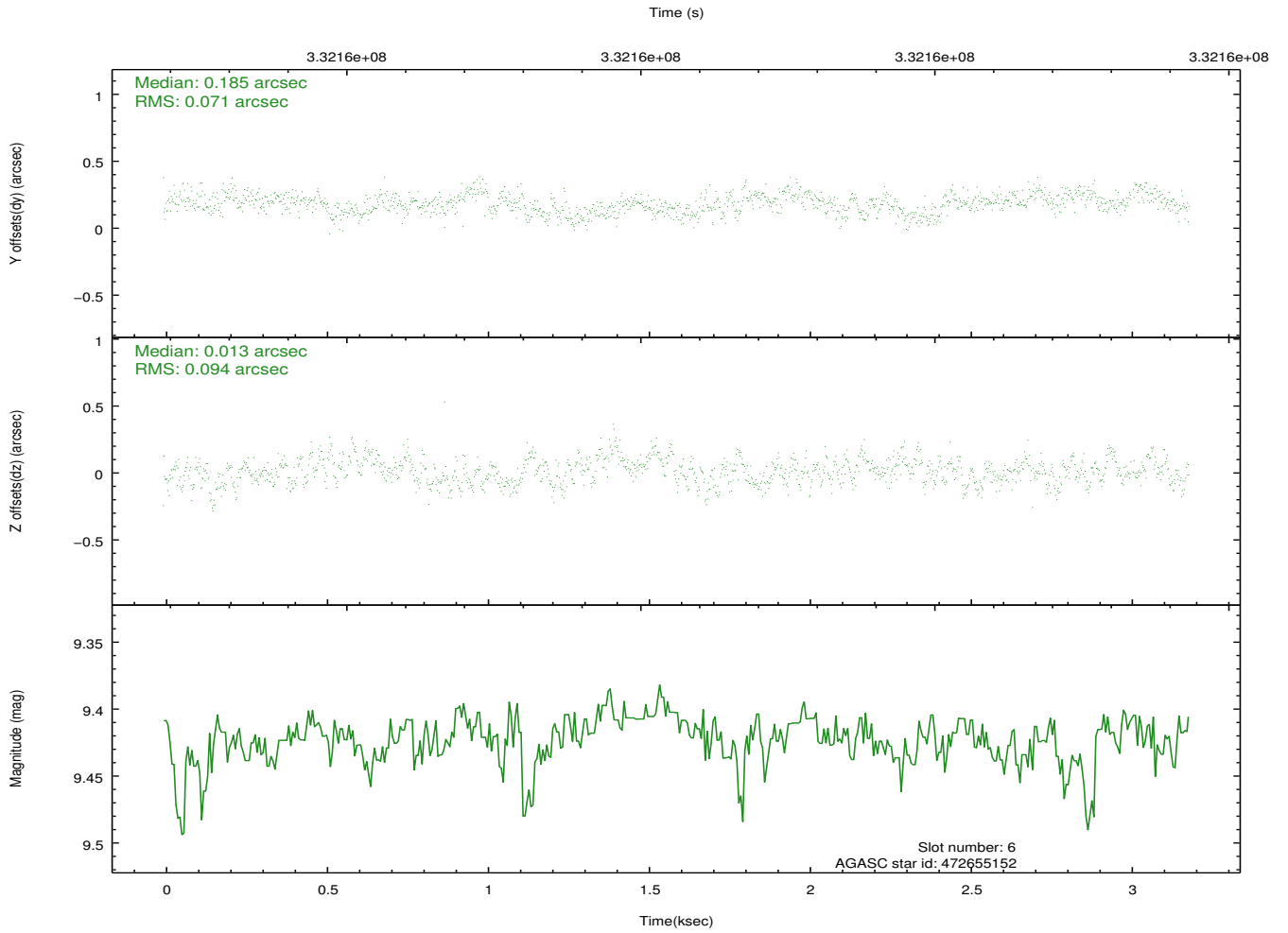
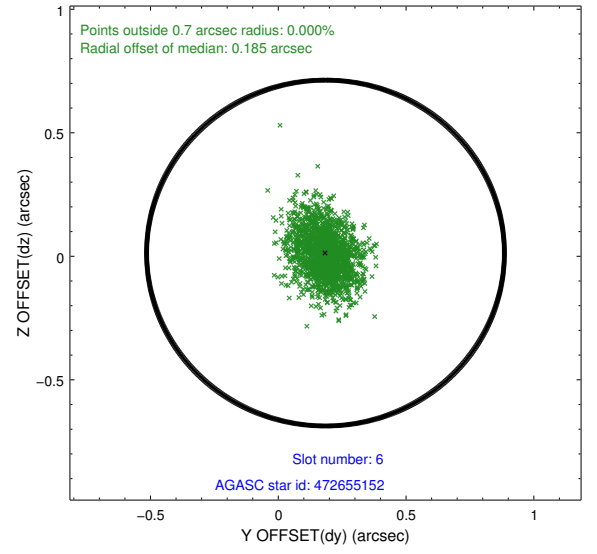
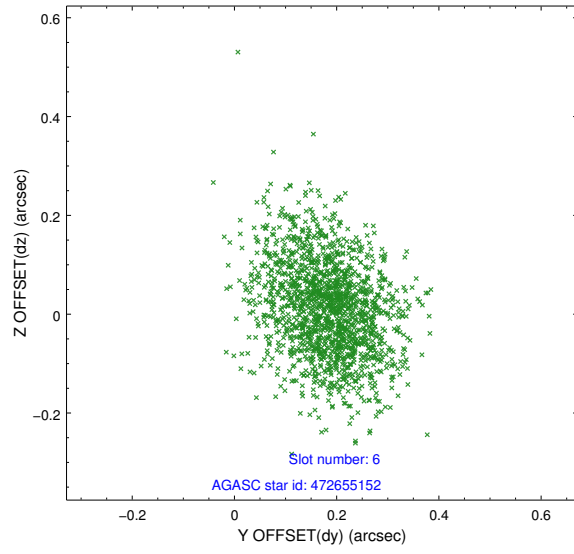
## 2.4.2 Slot 4



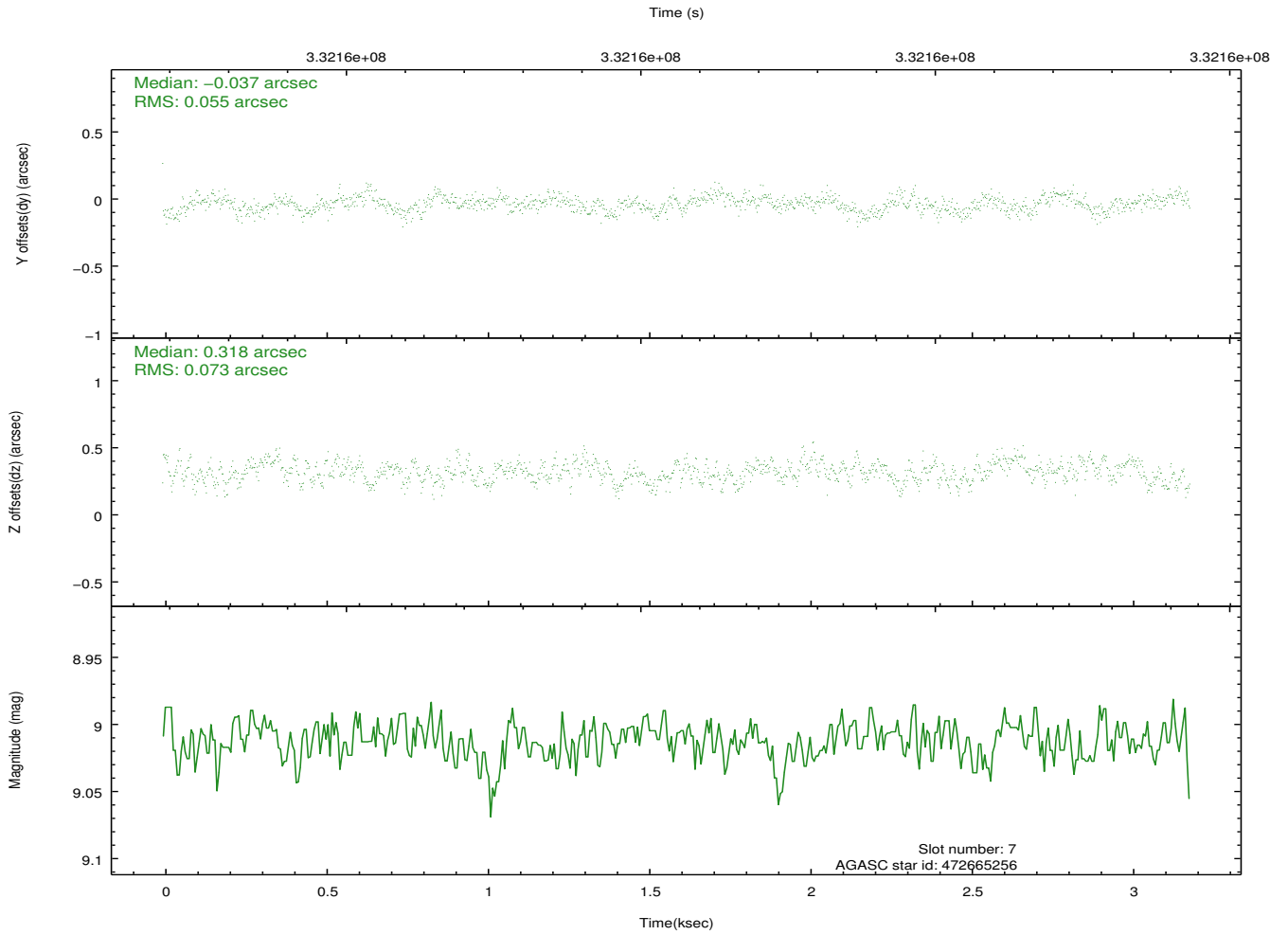
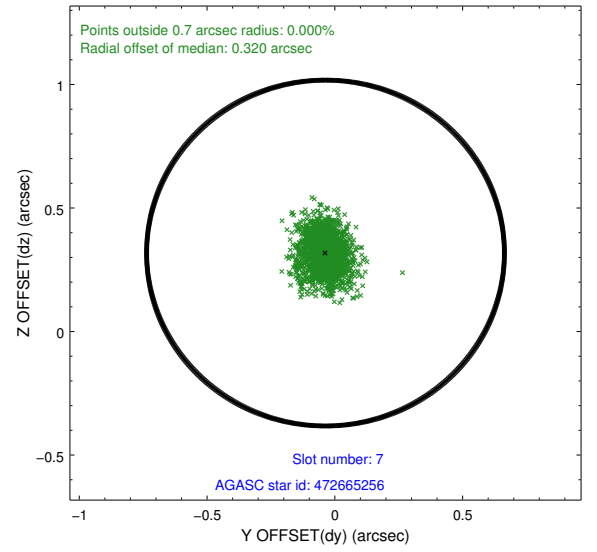
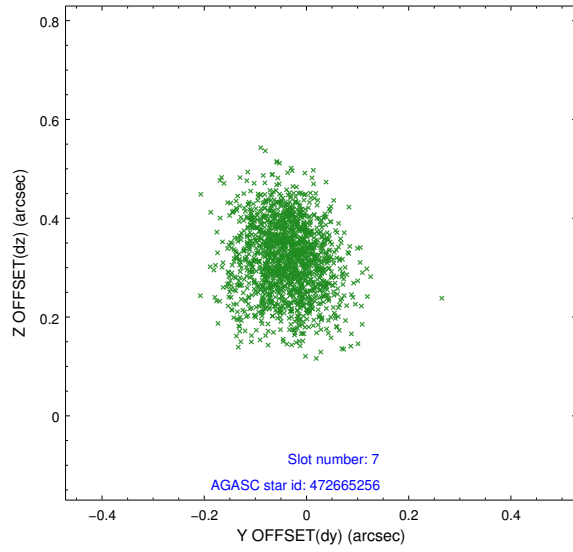
### 2.4.3 Slot 5



## 2.4.4 Slot 6

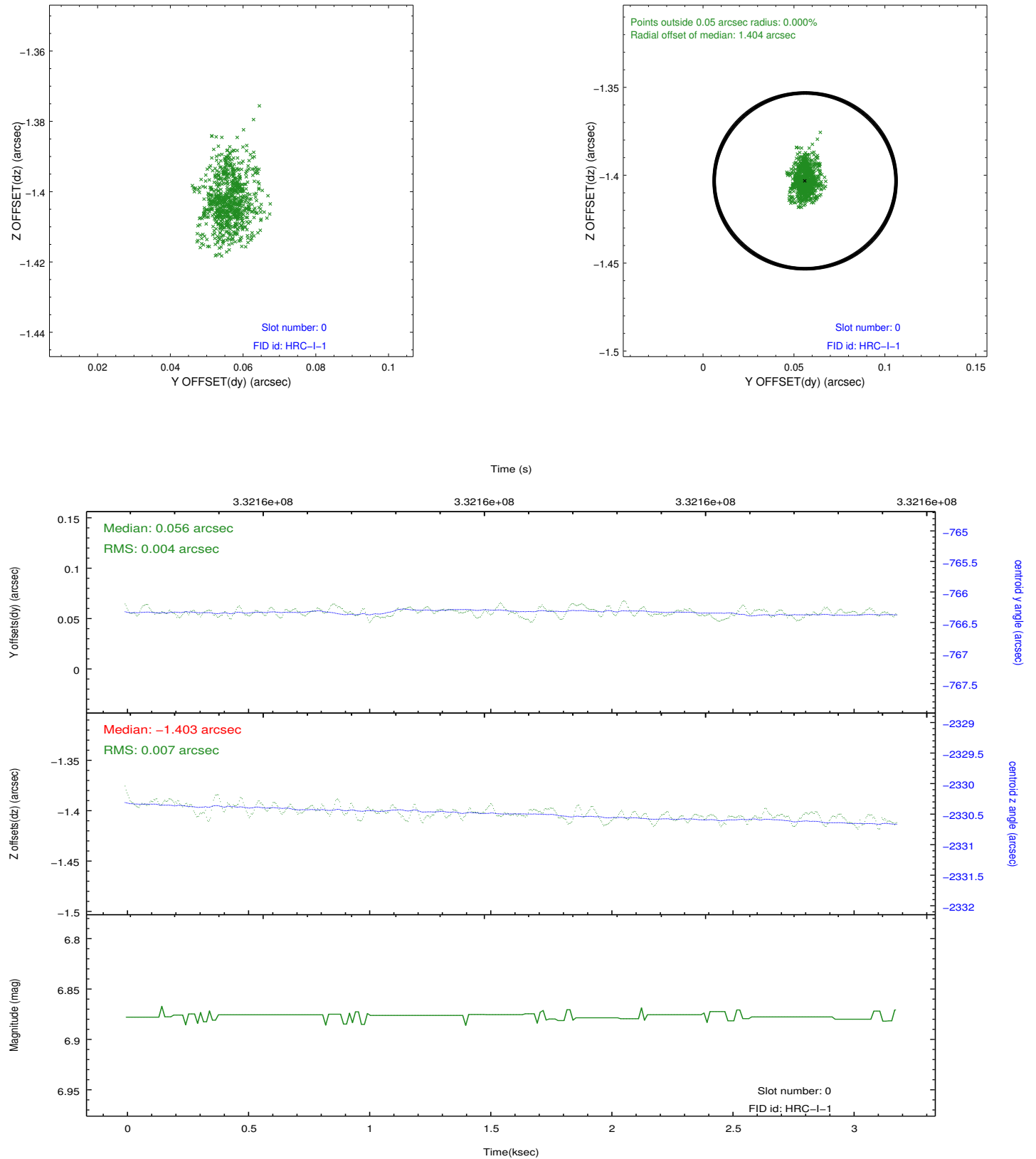


## 2.4.5 Slot 7

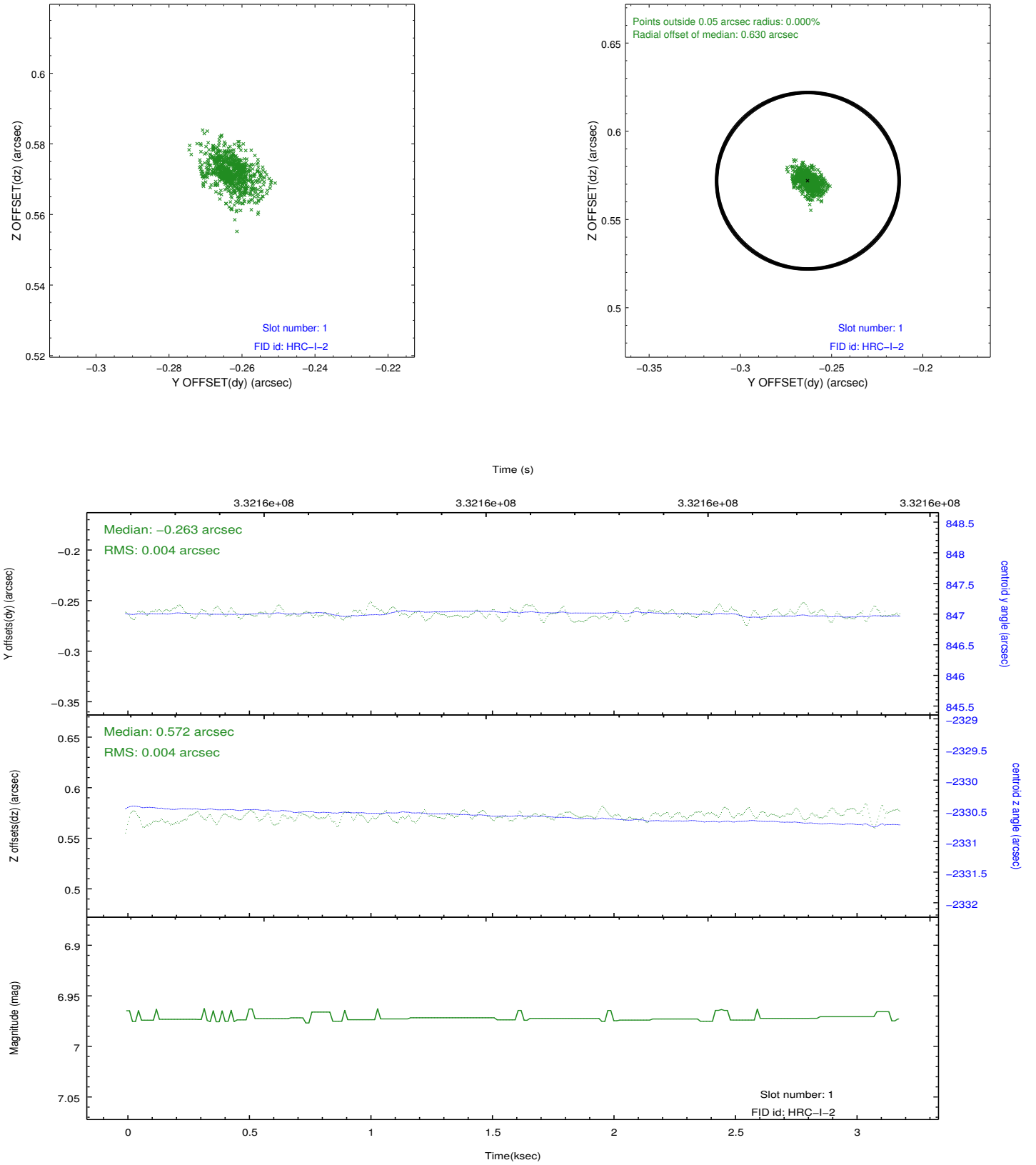


## 2.5 FID Slots

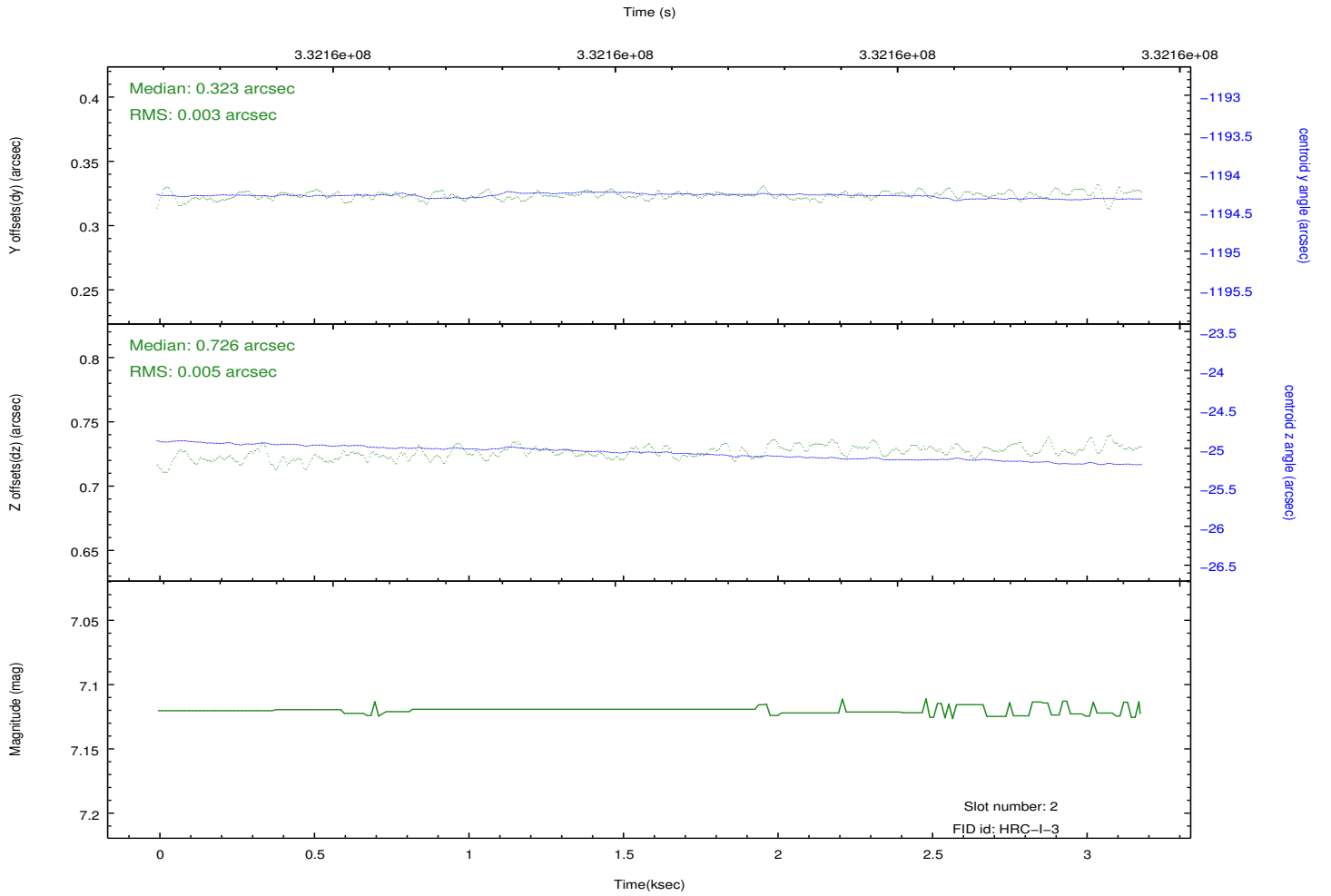
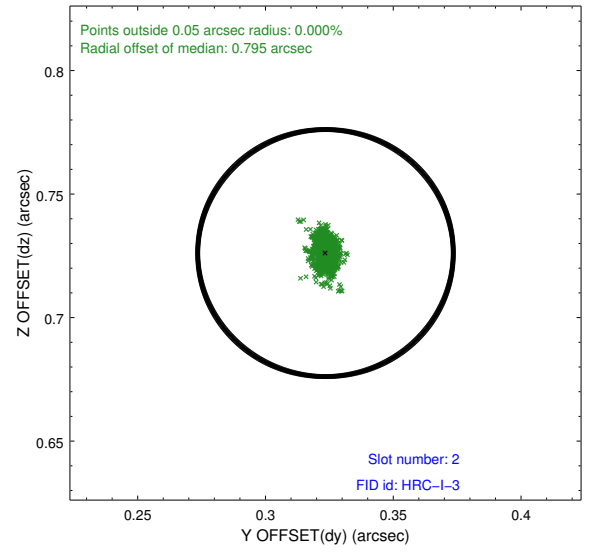
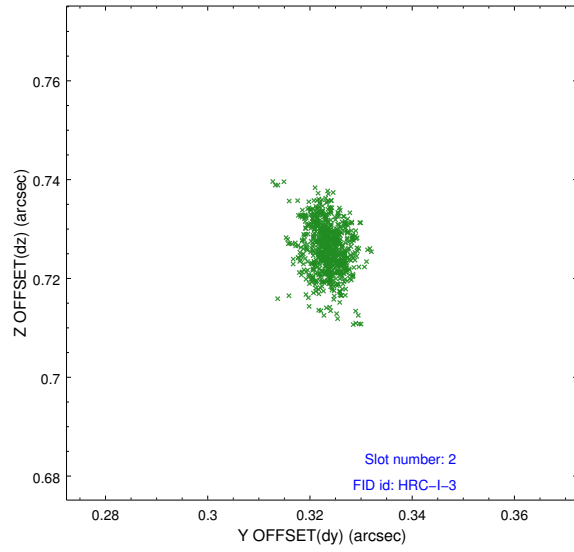
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1849314

## A.2 Comments

Obsid 9684 is a 3ks HRC-I CAL observation with a SIM offset of -50.00 [mm]. The fid median radial offsets of 1.404 arcsec (slot 0), 0.630 arcsec (slot 1), and 0.795 arcsec (slot 2) are not a problem for Aspect.