

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9682 - L2 Version 3  
Chandra X-Ray Center

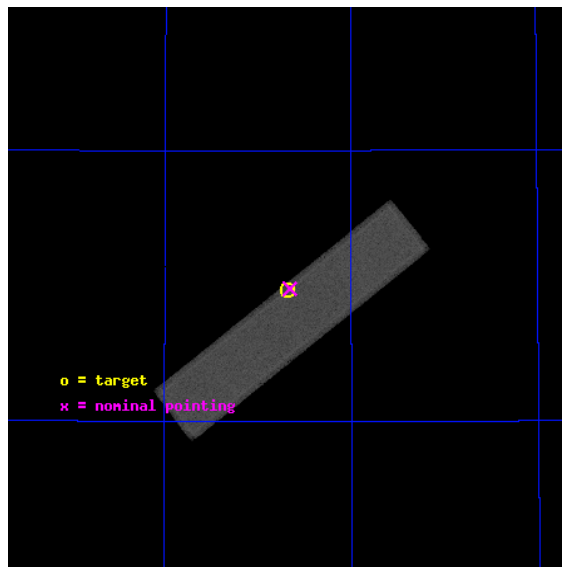
L2 Processing Date : Aug 12 2012

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# 1 Front

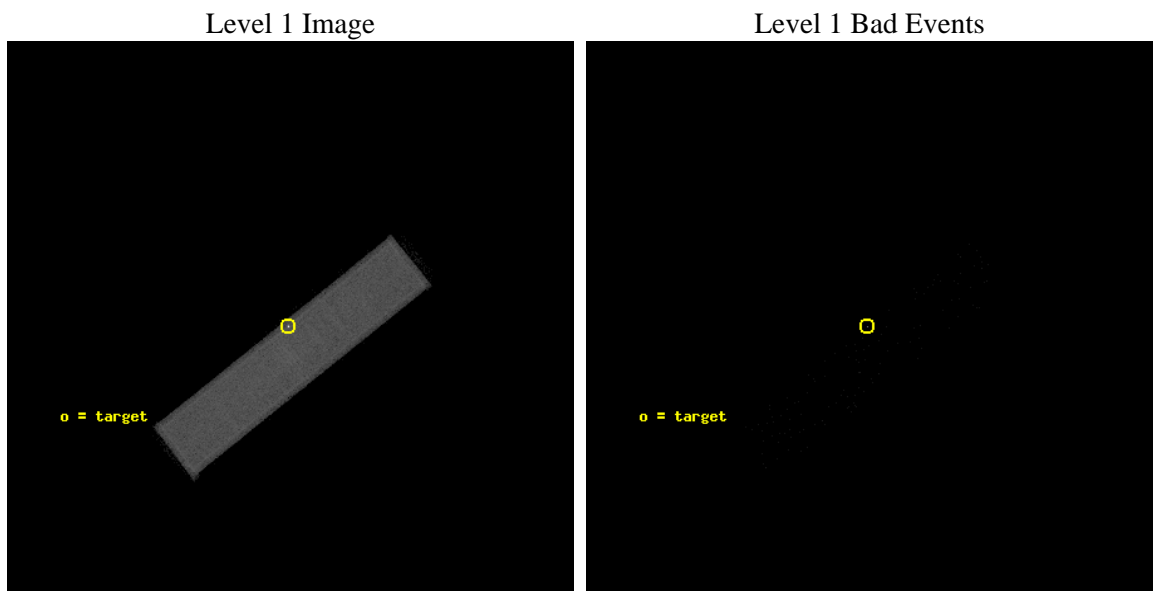
seq_num	290805	Sequence number
obs_id	9682	Observation id
title	AO9 Calibration Observations to Measure the Relative Alignment of the 4 Focal Plane Detectors	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.16443987164	Nominal RA [deg]
dec_nom	45.745230525987	Nominal Dec [deg]
roll_nom	141.37131902839	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3180.8314057589	[s]
livetime	3152.6849041148	Ontime multiplied by DTCOR
l2events	199949	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	3180.8314057589	[s]
caldsver	4.5.1.1	&#160	l1events	256444	Number of level 1 events
date	2012-08-12T14:43:57	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

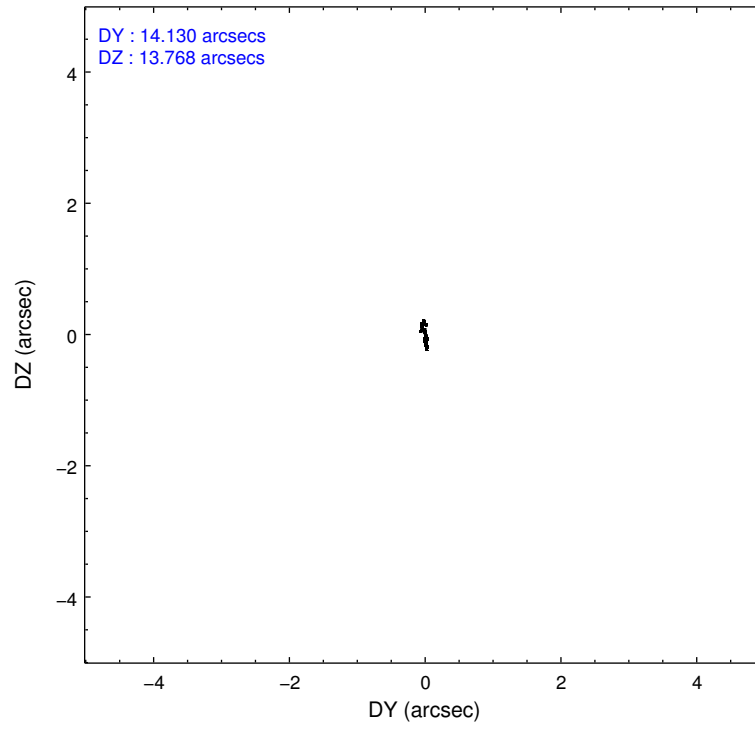
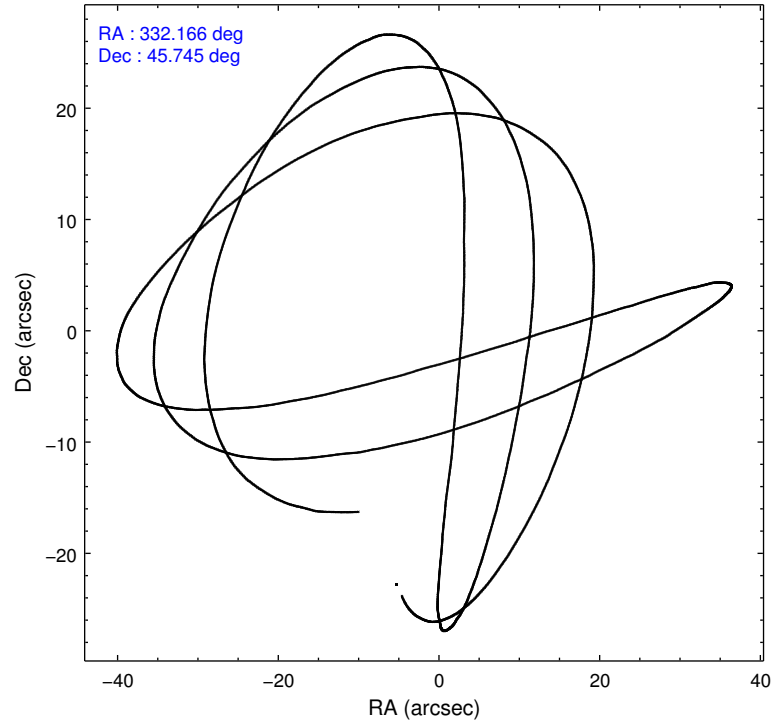
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1078	254322	1044
rejected events	1078	15140	1044
rejected %	100%	5%	100%

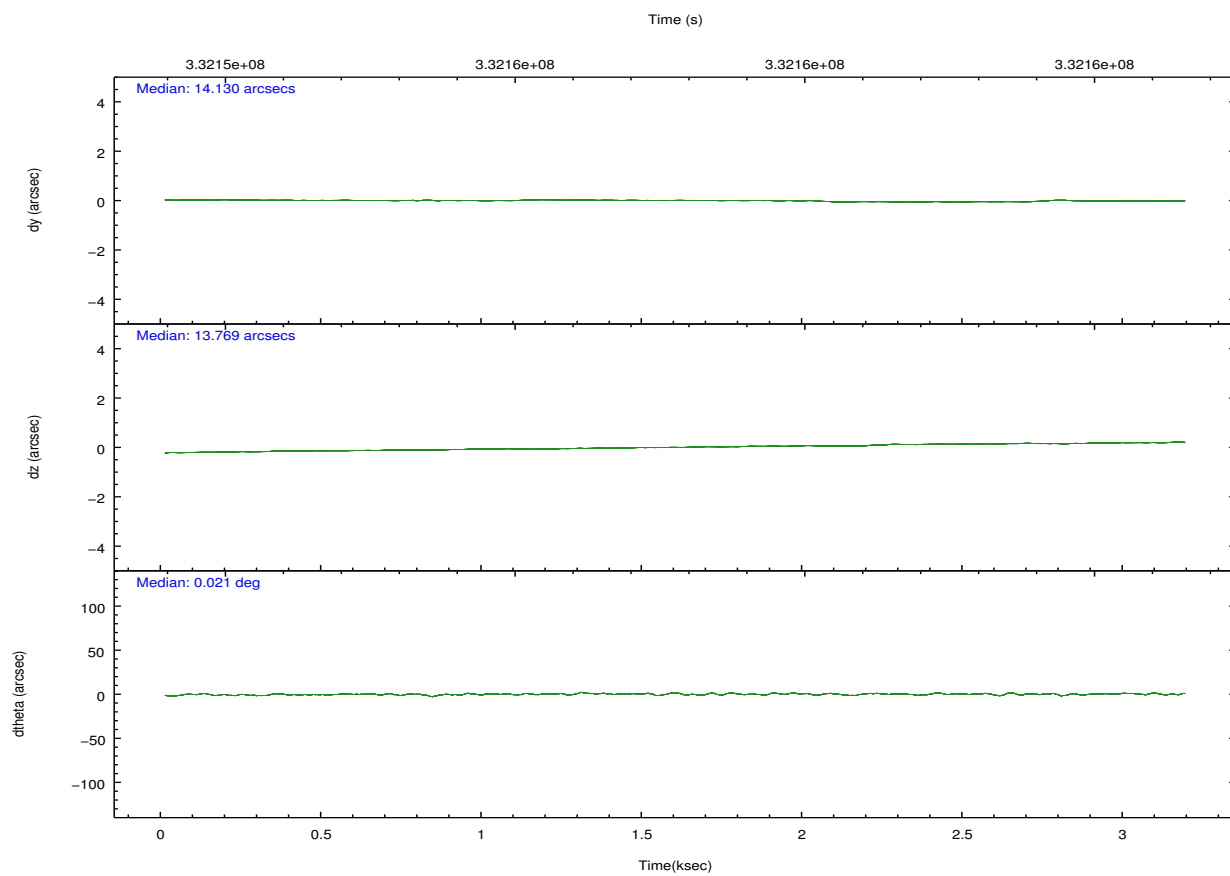
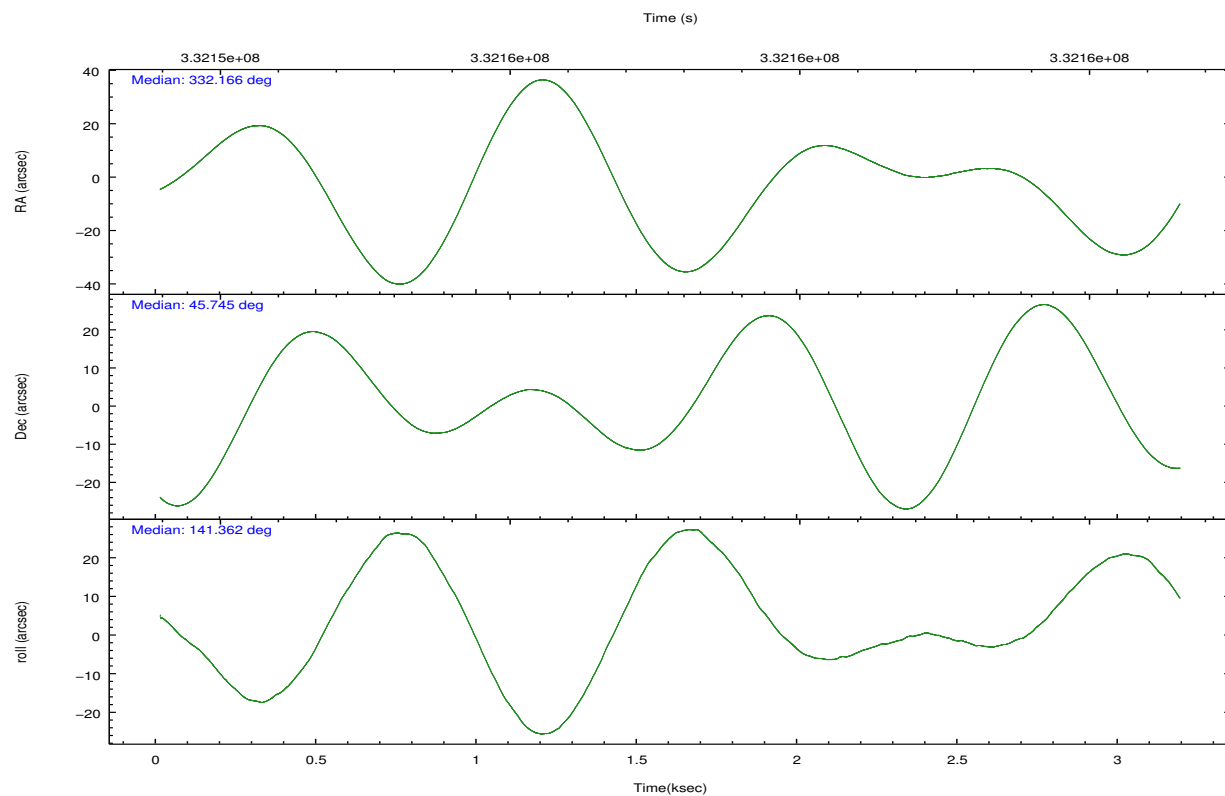
## 2.2 Compared Parameters

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	332.205657	332.1644398716425
[deg] Pointing Dec	45.742426	45.74523052598686
[deg] Pointing Roll	141.274464	141.3713190283925
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	242.455976	242.4629674753355
[mm] SIM translation stage offset	8	7.993010918219198
[s] Observation start time (MET)	332154149.184000	332153772.98696
Observation start date	2008-07-11T09:01:24	2008-07-11T08:56:12
[s] Observation end time (MET)	332157149.184000	332157309.23713
Observation end date	2008-07-11T09:51:24	2008-07-11T09:55:09

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

## 2.3 Aspect





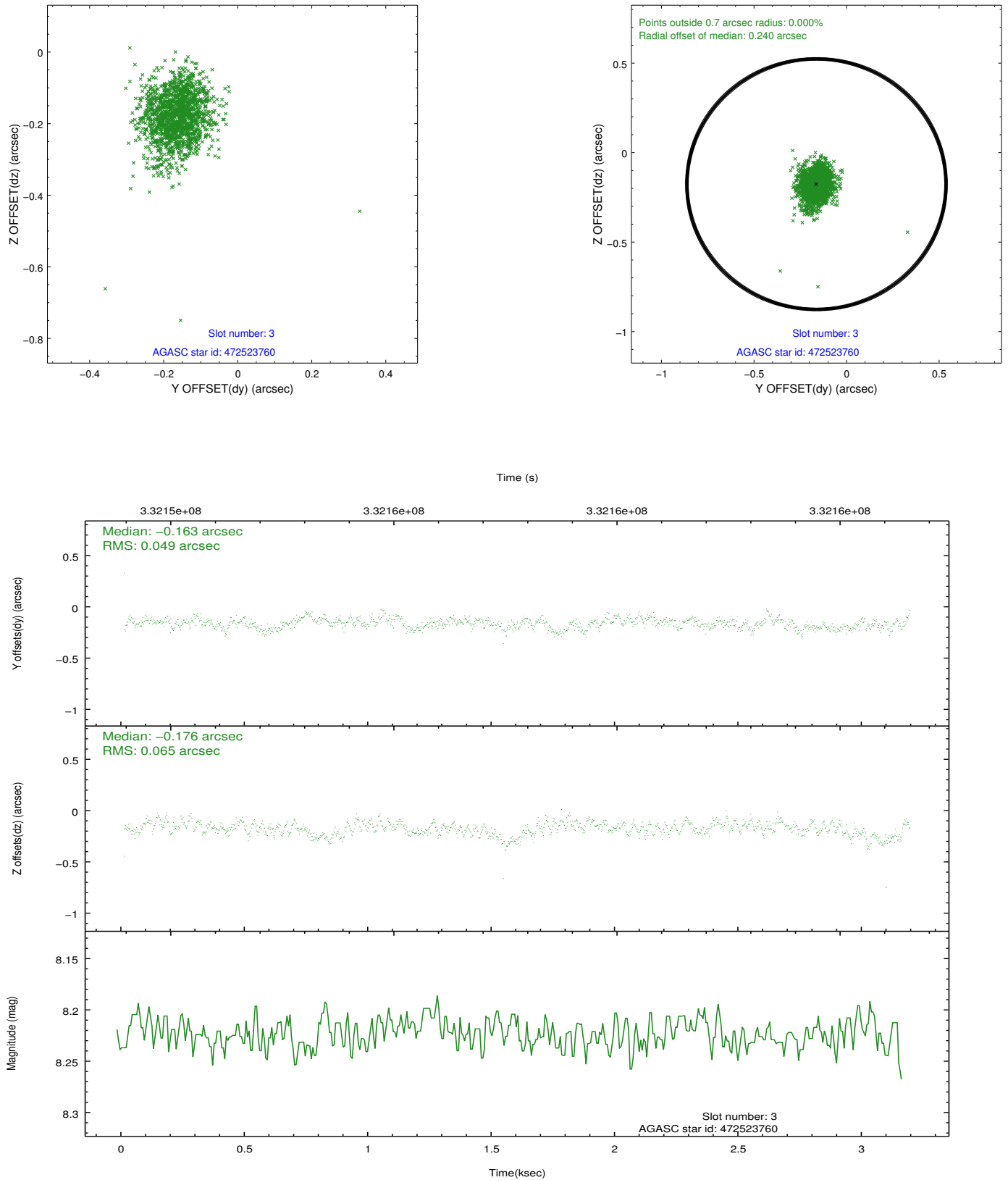
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.98	776	0.298	-0.120	0.007	0.014	0.000000	0.000000	-1169.03	-297.44
1	FID	HRC-S-3	7.02	776	-0.328	-0.003	0.008	0.015	0.000000	0.000000	-1173.45	731.81
2	FID	HRC-S-4	7.00	776	0.418	-0.171	0.005	0.011	0.000000	0.000000	1228.25	734.52
3	GUIDE	472523760	8.22	1550	-0.163	-0.176	0.082	0.139	331.645363	45.403260	343.66	1834.14
4	GUIDE	472533912	9.15	1549	-0.090	-0.052	0.123	0.202	331.791136	46.368695	2215.71	-1115.85
5	GUIDE	472654568	9.42	1548	0.104	-0.104	0.116	0.182	332.194449	45.063576	-1505.45	1922.90
6	GUIDE	472655152	9.42	1553	0.183	0.032	0.124	0.209	332.504239	45.862991	-312.40	-807.18
7	GUIDE	472665256	9.02	1551	-0.035	0.303	0.091	0.151	332.808125	46.195041	-148.34	-2215.50

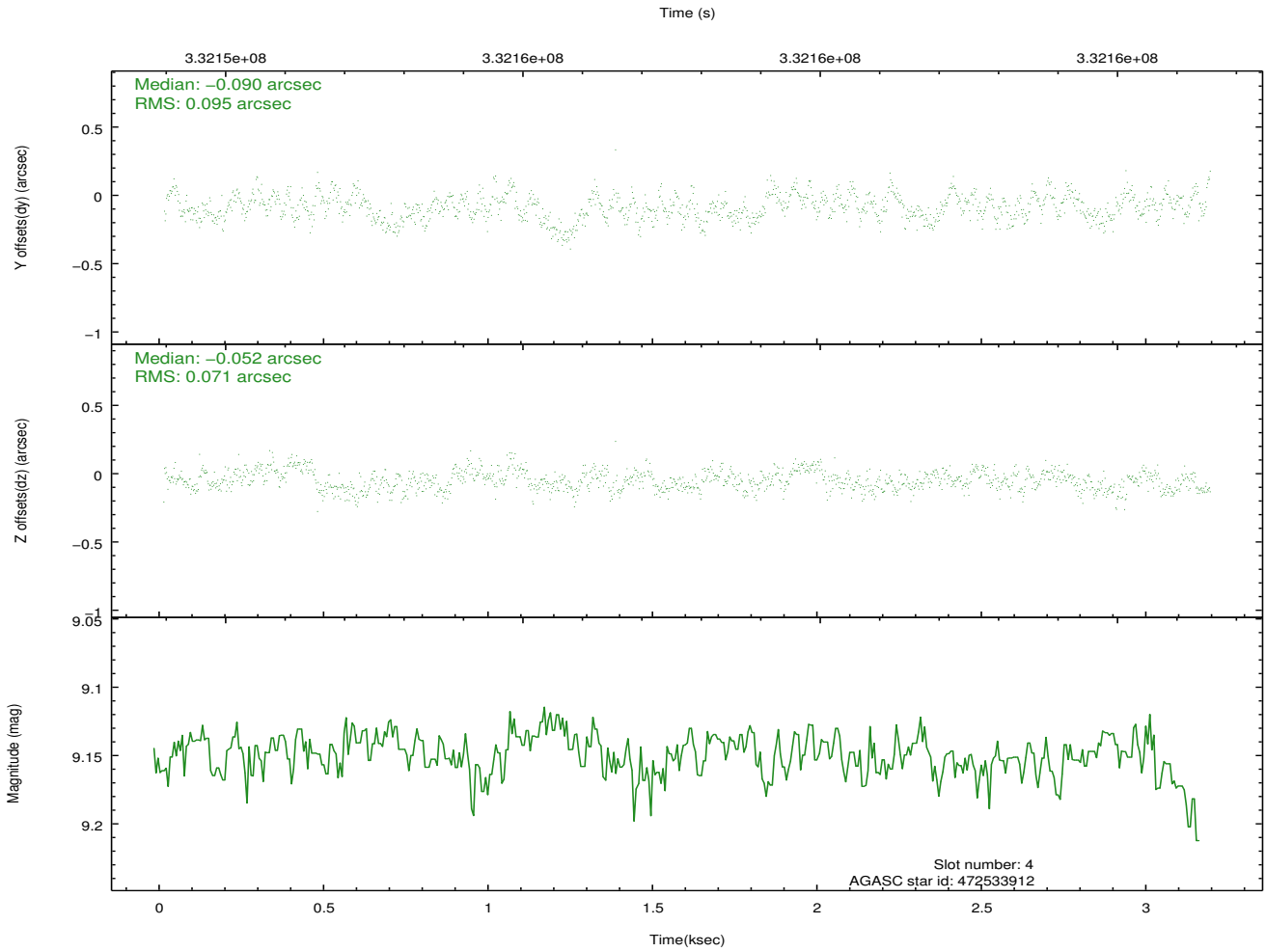
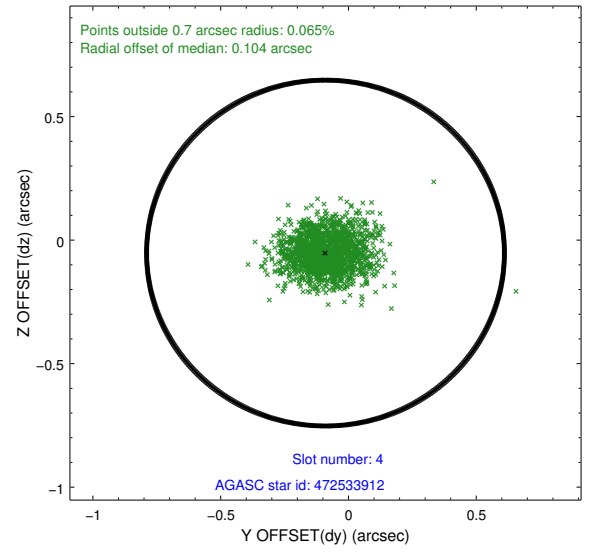
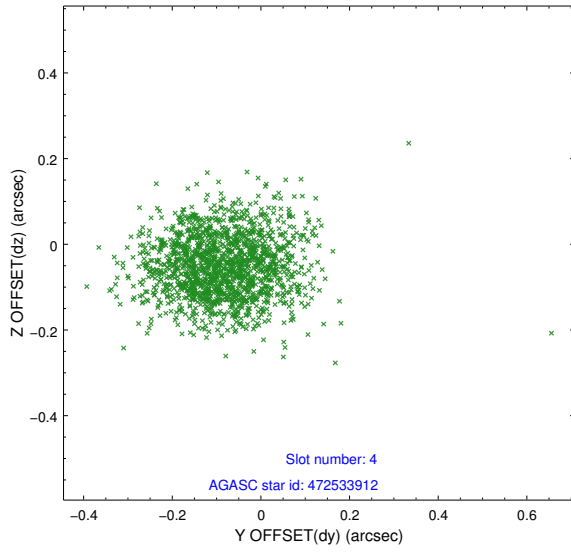


## 2.4 Star Slots

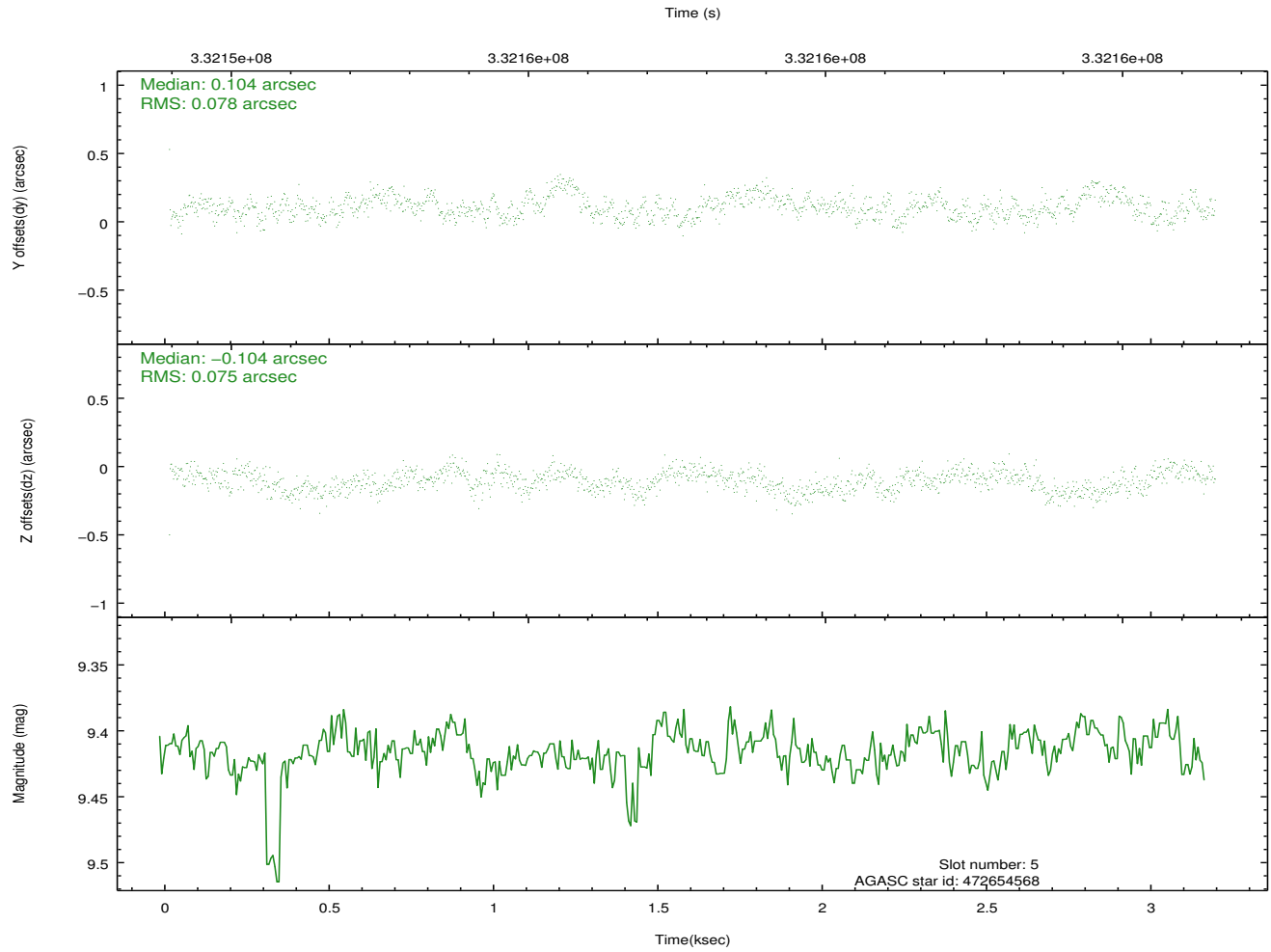
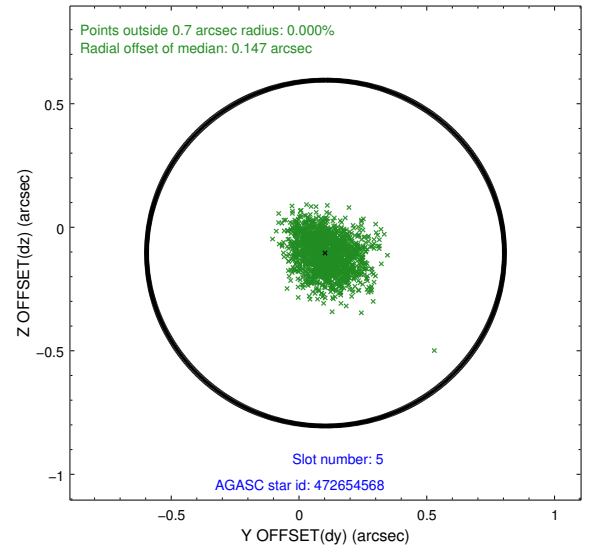
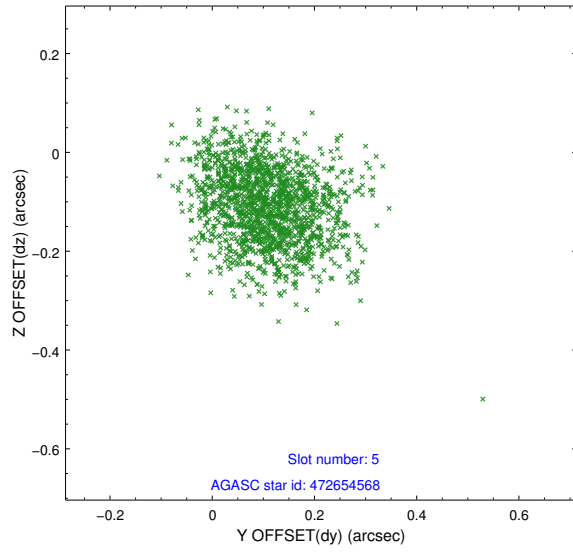
### 2.4.1 Slot 3



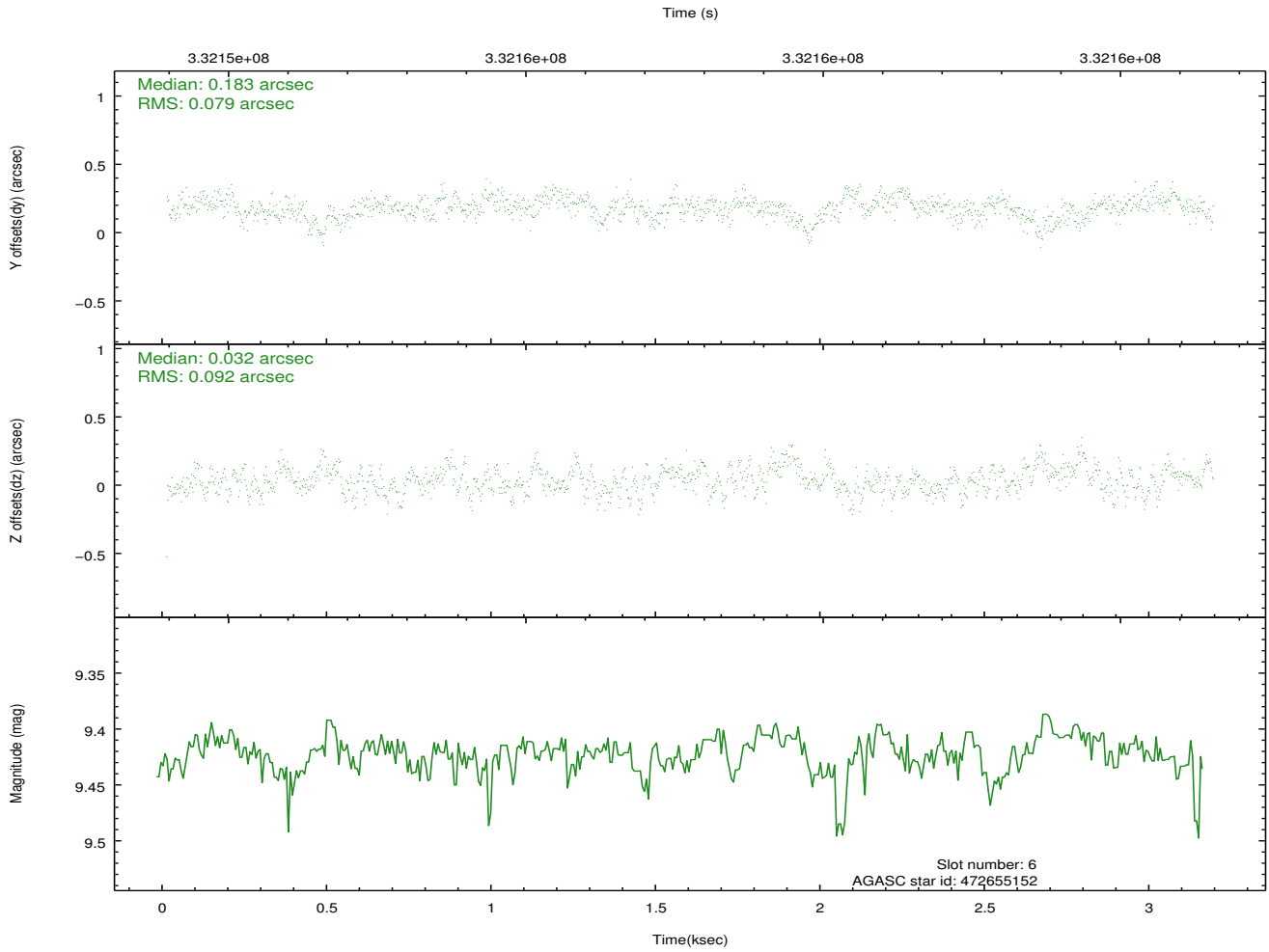
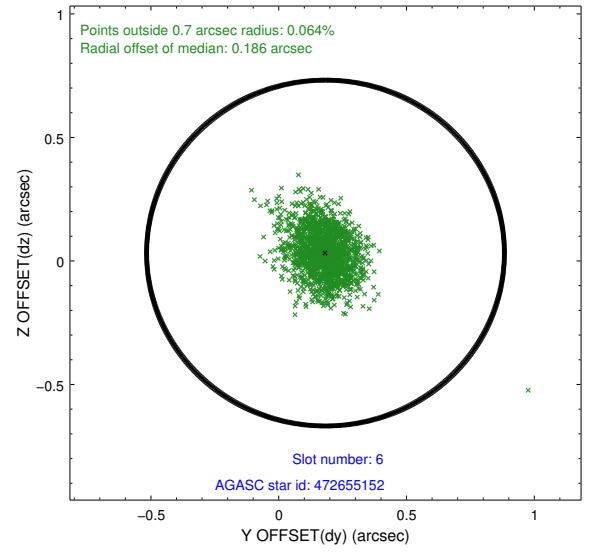
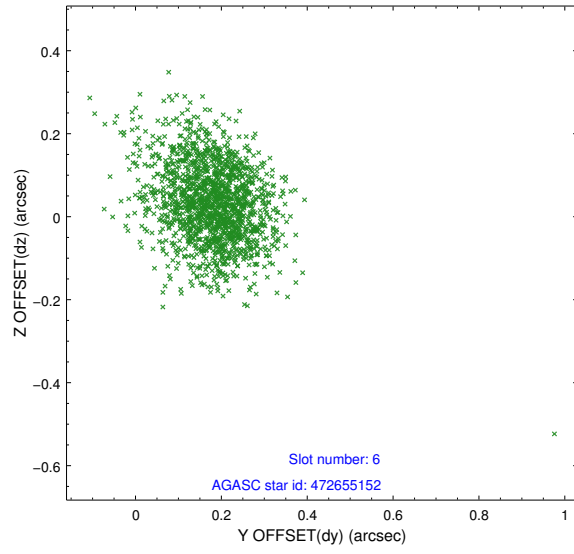
## 2.4.2 Slot 4



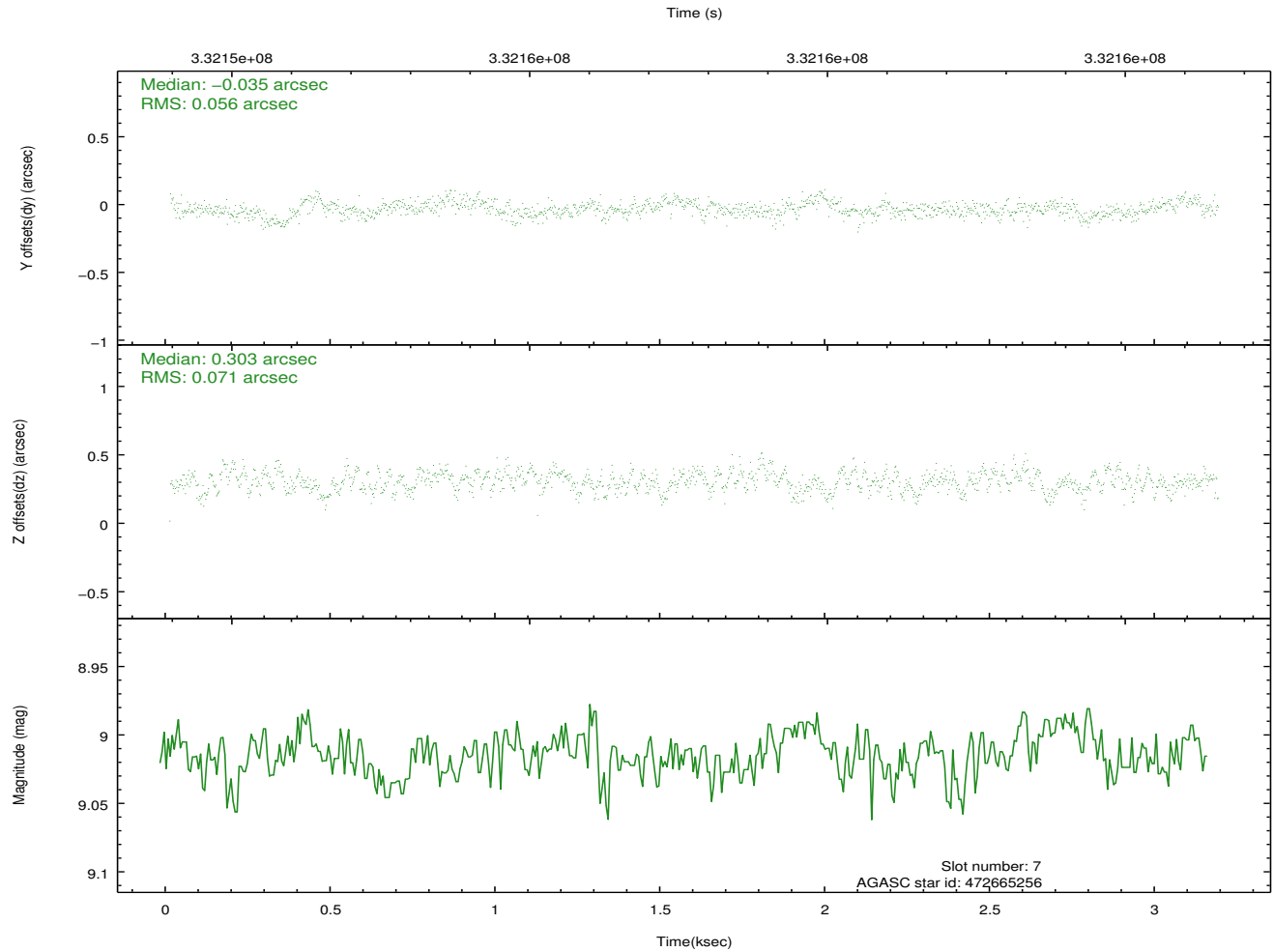
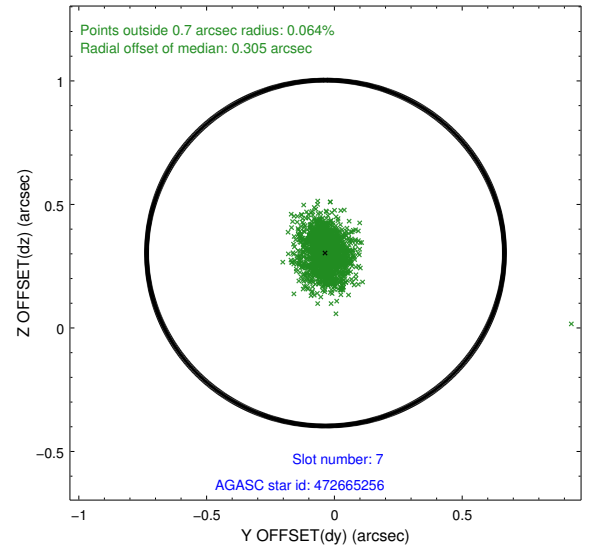
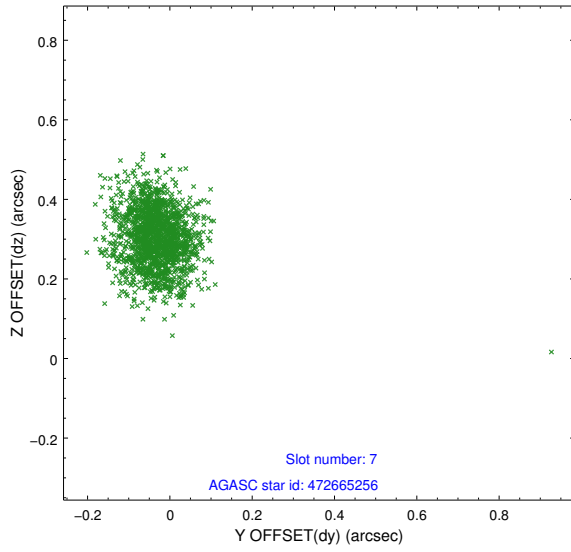
### 2.4.3 Slot 5



## 2.4.4 Slot 6

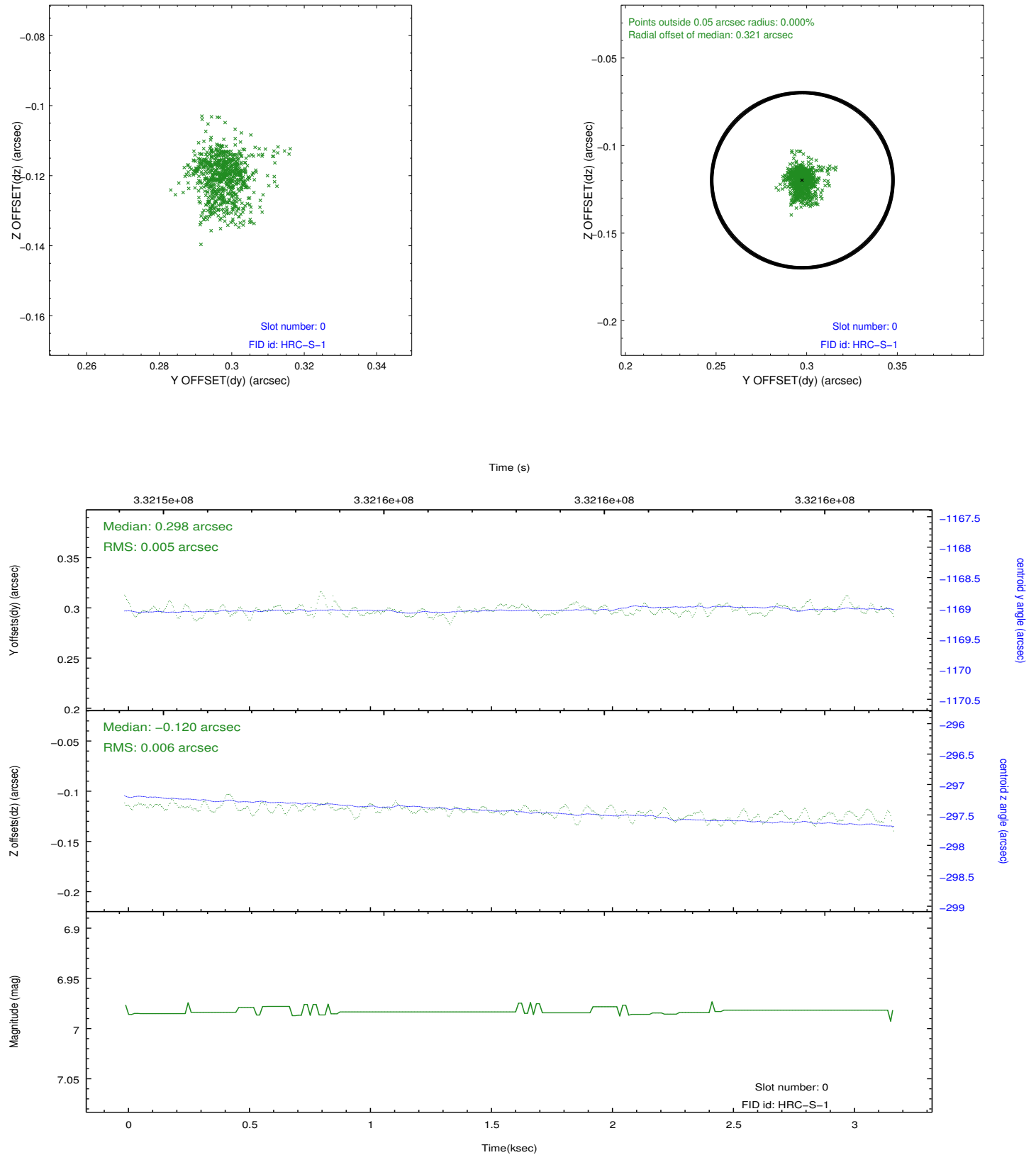


## 2.4.5 Slot 7

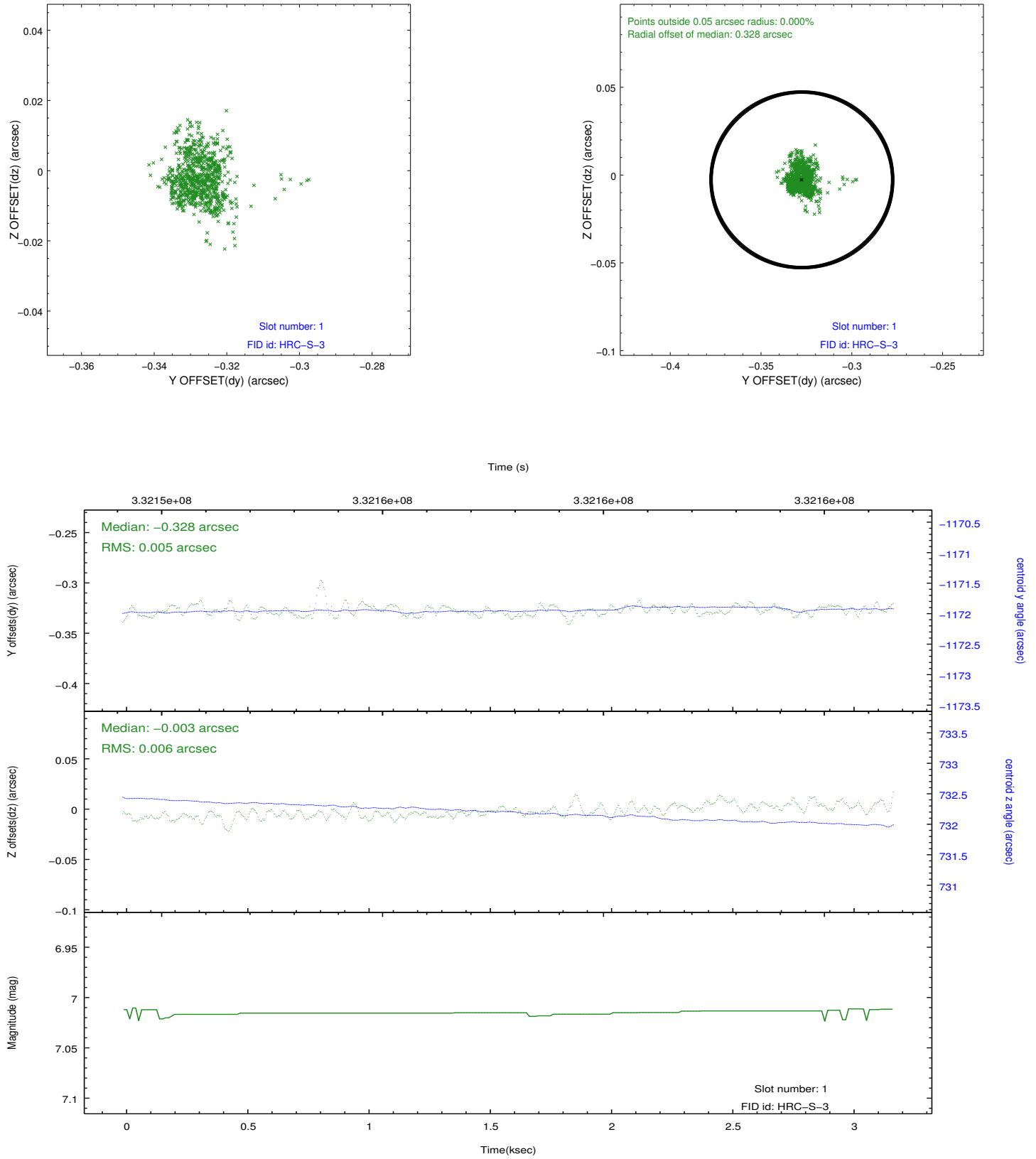


## 2.5 FID Slots

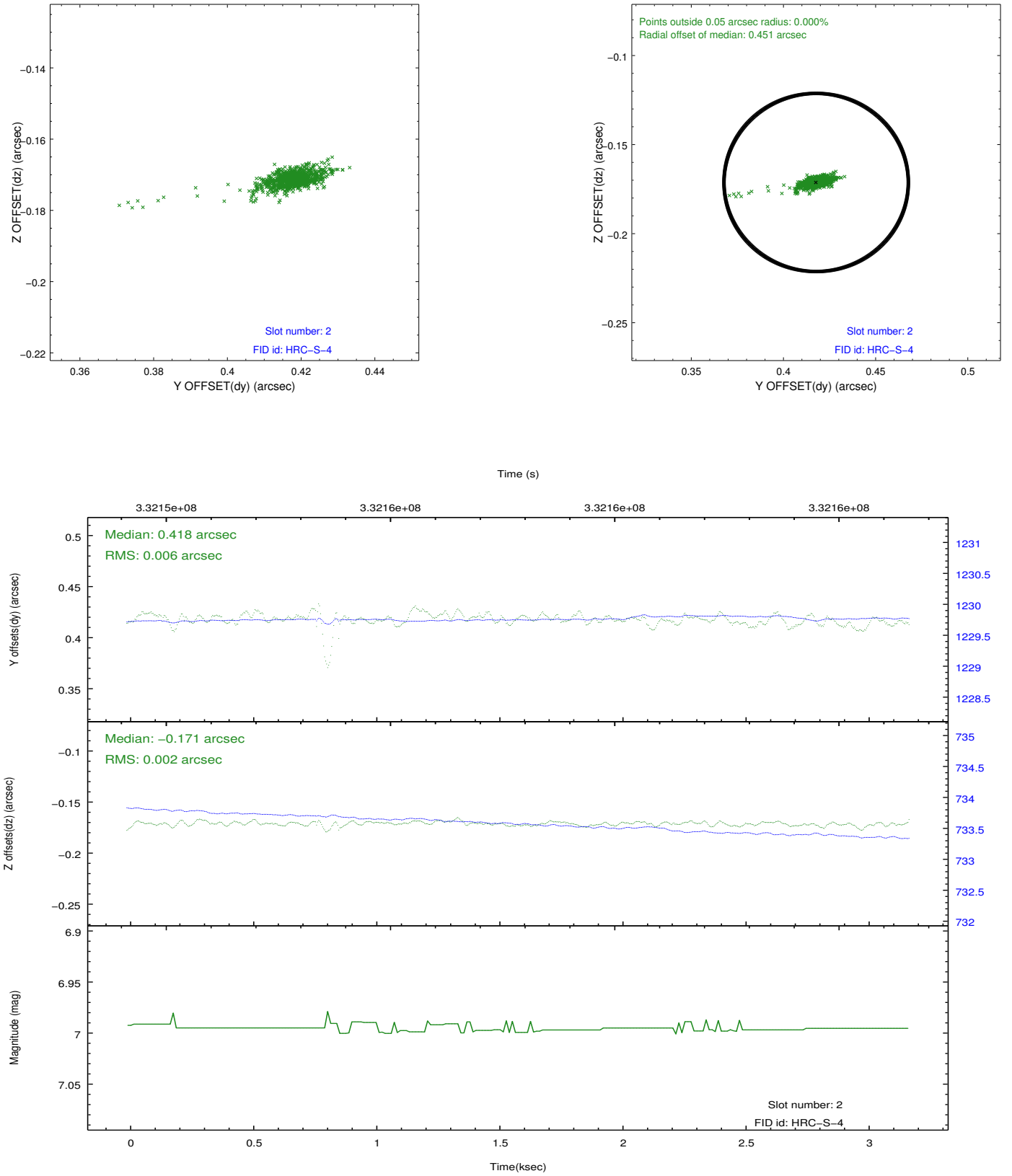
### 2.5.1 Slot 0



## 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	3.1808314

## A.2 Comments

Obsid 9682 is a 3ks HRC-S CAL observation with a SIM offset of 7.99 [mm]. The fid median radial offset of 0.451 arcsec (slot 2) is not a problem for Aspect.