

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8330 - L2 Version 3  
Chandra X-Ray Center

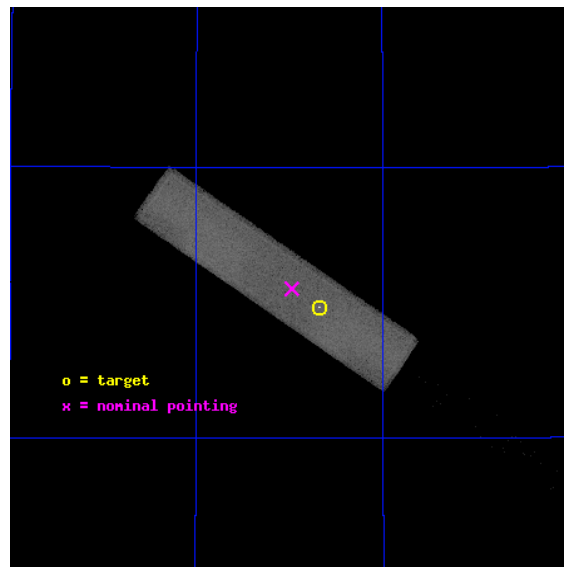
L2 Processing Date : Aug 12 2012

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# 1 Front

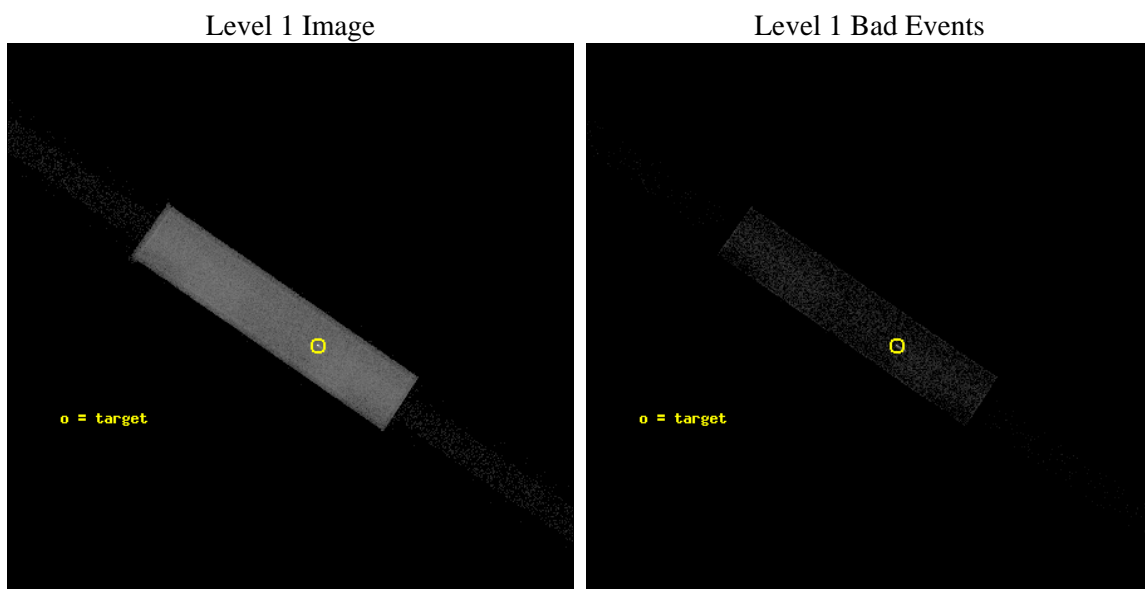
seq_num	290709	Sequence number
obs_id	8330	Observation id
title	AO8 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.24331068664	Nominal RA [deg]
dec_nom	45.776327902037	Nominal Dec [deg]
roll_nom	214.33121764361	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1159.5313056707	[s]
livetime	1128.2659085764	Ontime multiplied by DTCOR
l2events	145273	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	1159.5313056707	[s]
caldsver	4.5.1.1	&#160	l1events	212985	Number of level 1 events
date	2012-08-12T03:28:58	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

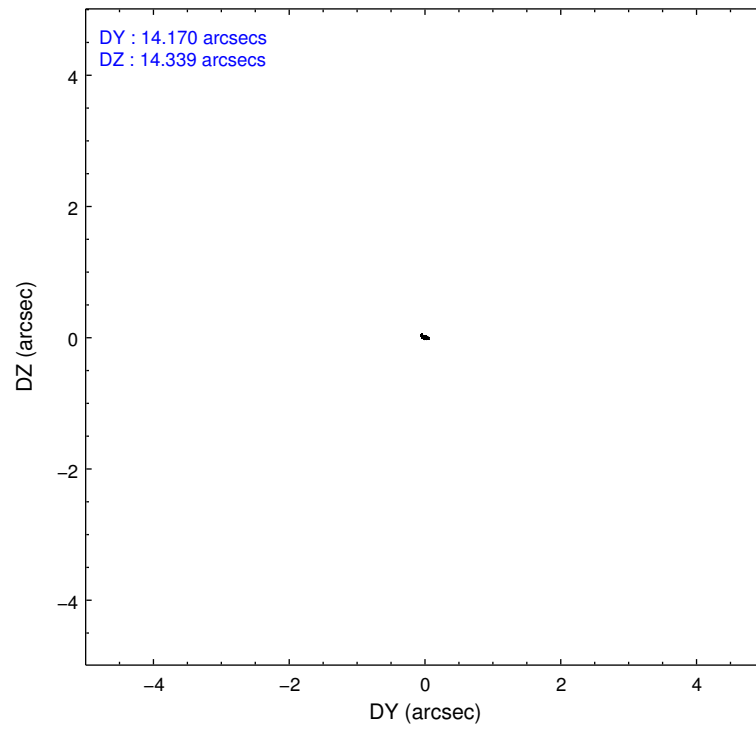
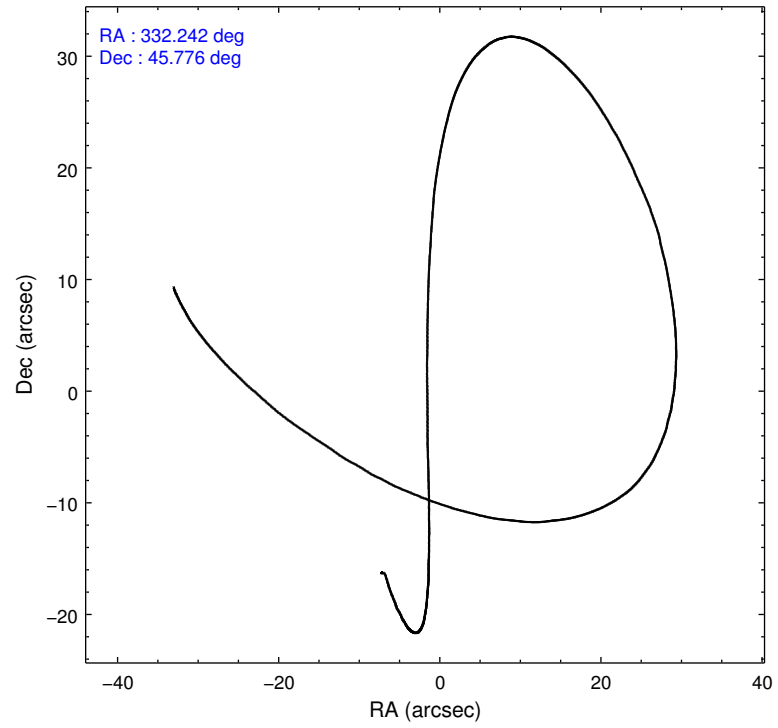
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1679	209782	1524
rejected events	1679	49655	1475
rejected %	100%	23%	96%

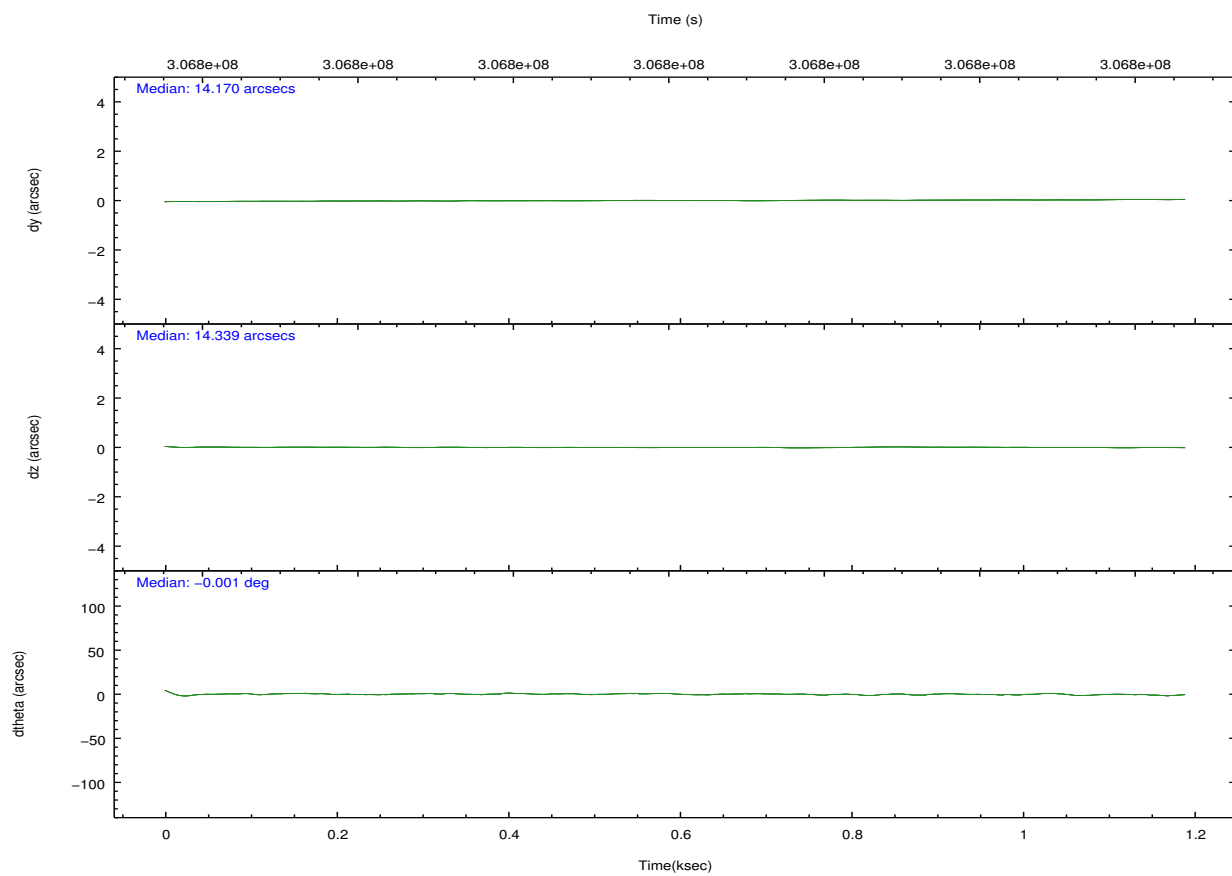
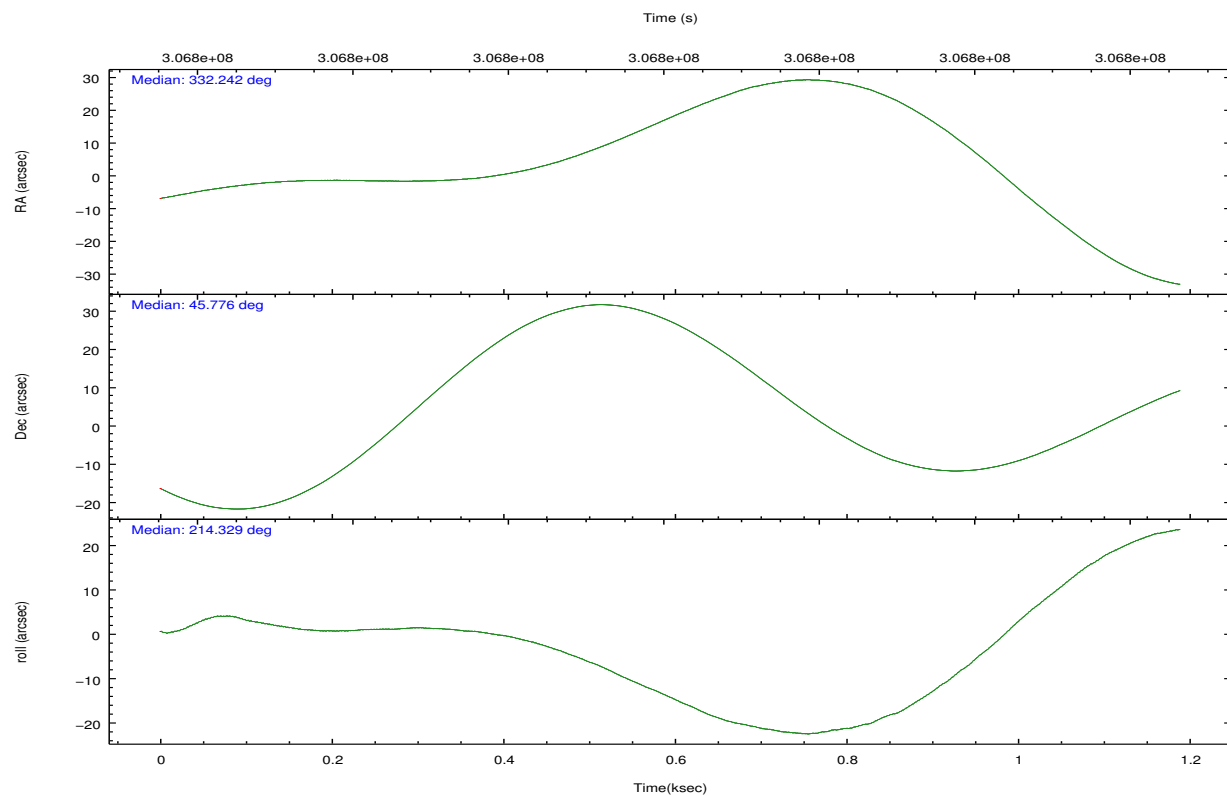
## 2.2 Compared Parameters

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	332.259216	332.2433106866375
[deg] Pointing Dec	45.803699	45.77632790203683
[deg] Pointing Roll	214.252499	214.33121764361
[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)	306799803.184000	306799427.61875
Observation start date	2007-09-21T22:08:58	2007-09-21T22:03:47
[s] Observation end time (MET)	306800803.184000	306800937.95633
Observation end date	2007-09-21T22:25:38	2007-09-21T22:28:57

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

## 2.3 Aspect





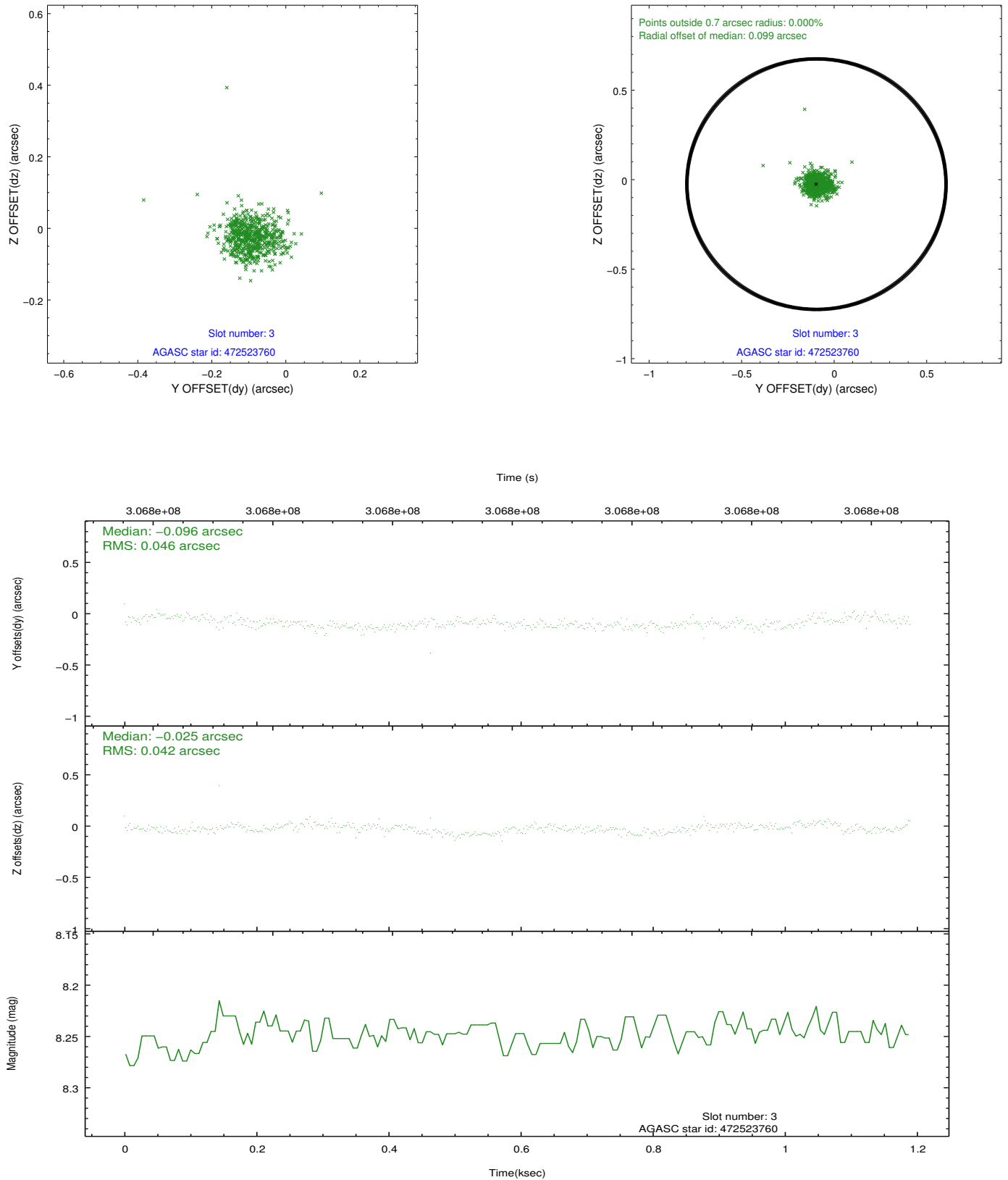
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-2	7.05	291	0.164	-0.162	0.007	0.012	0.000000	0.000000	1231.18	-455.86
1	FID	HRC-S-3	7.06	291	0.079	-0.086	0.005	0.008	0.000000	0.000000	-1167.01	564.91
2	FID	HRC-S-4	7.01	291	0.162	-0.048	0.008	0.012	0.000000	0.000000	1225.79	570.92
3	GUIDE	472523760	8.25	581	-0.096	-0.025	0.061	0.101	331.645363	45.403260	2089.21	311.04
4	GUIDE	472533912	9.16	581	0.039	0.057	0.125	0.193	331.791136	46.368695	-183.17	-2340.32
5	GUIDE	472655152	9.43	581	-0.028	-0.150	0.111	0.187	332.504239	45.862991	-630.03	161.99
6	GUIDE	472663080	9.42	581	0.062	0.051	0.098	0.154	332.652741	46.473840	-2167.92	-1449.21
7	GUIDE	472665256	9.00	579	0.023	0.072	0.087	0.136	332.808125	46.195041	-1931.20	-403.54

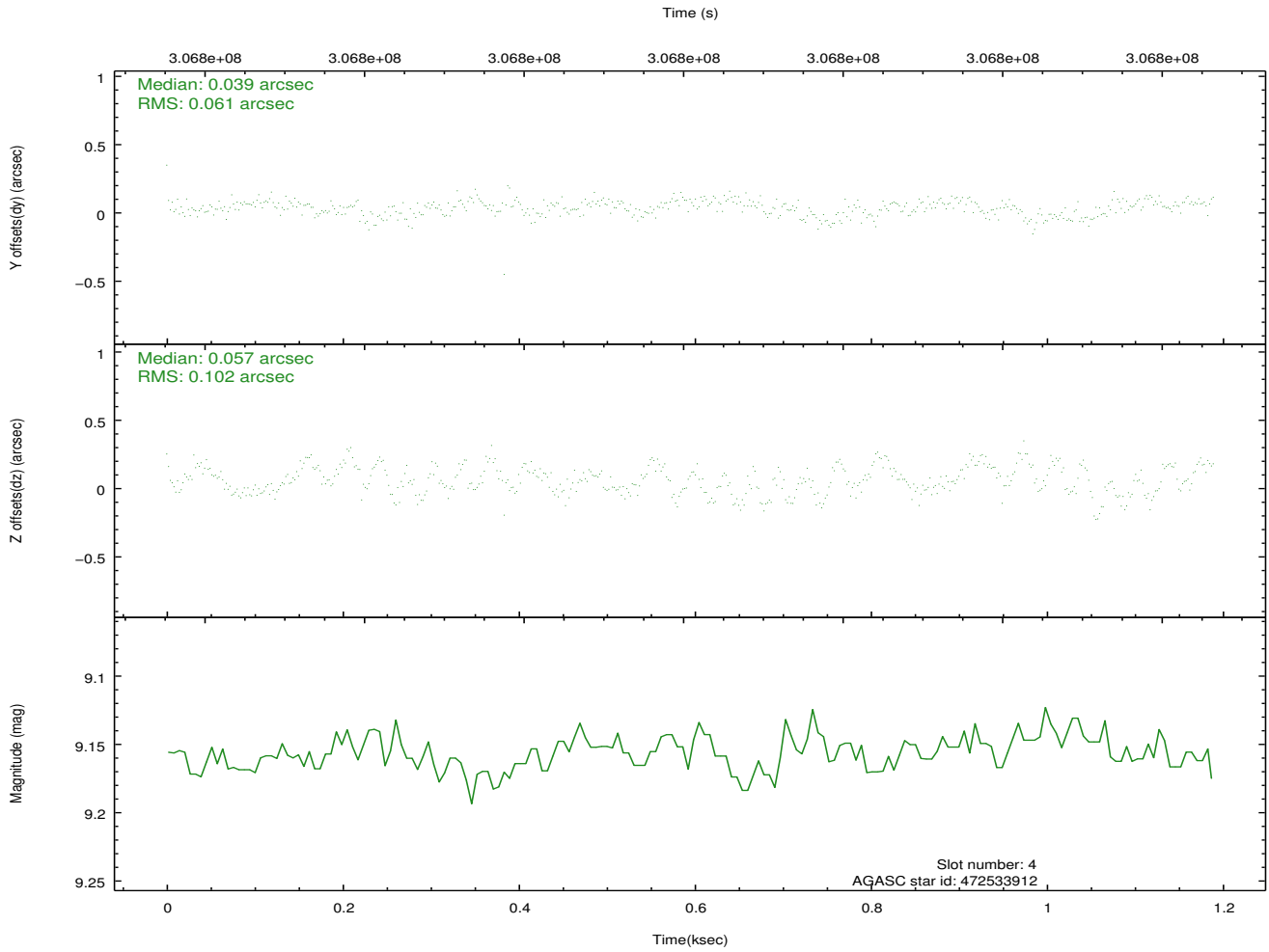
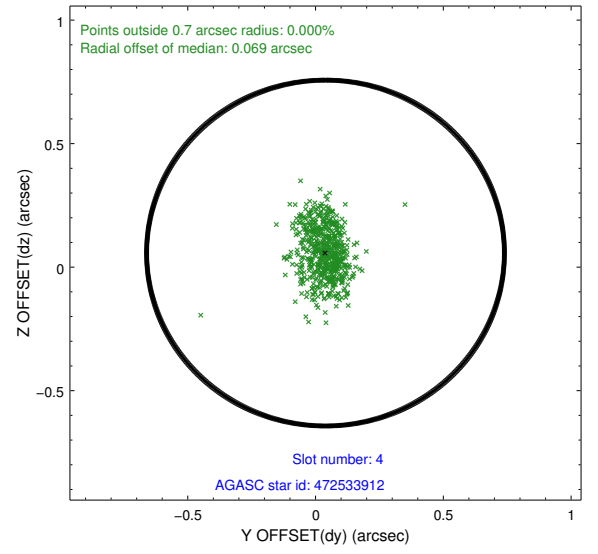
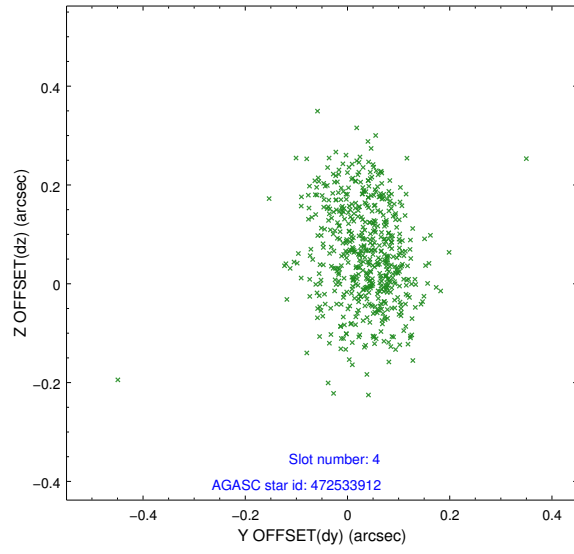


## 2.4 Star Slots

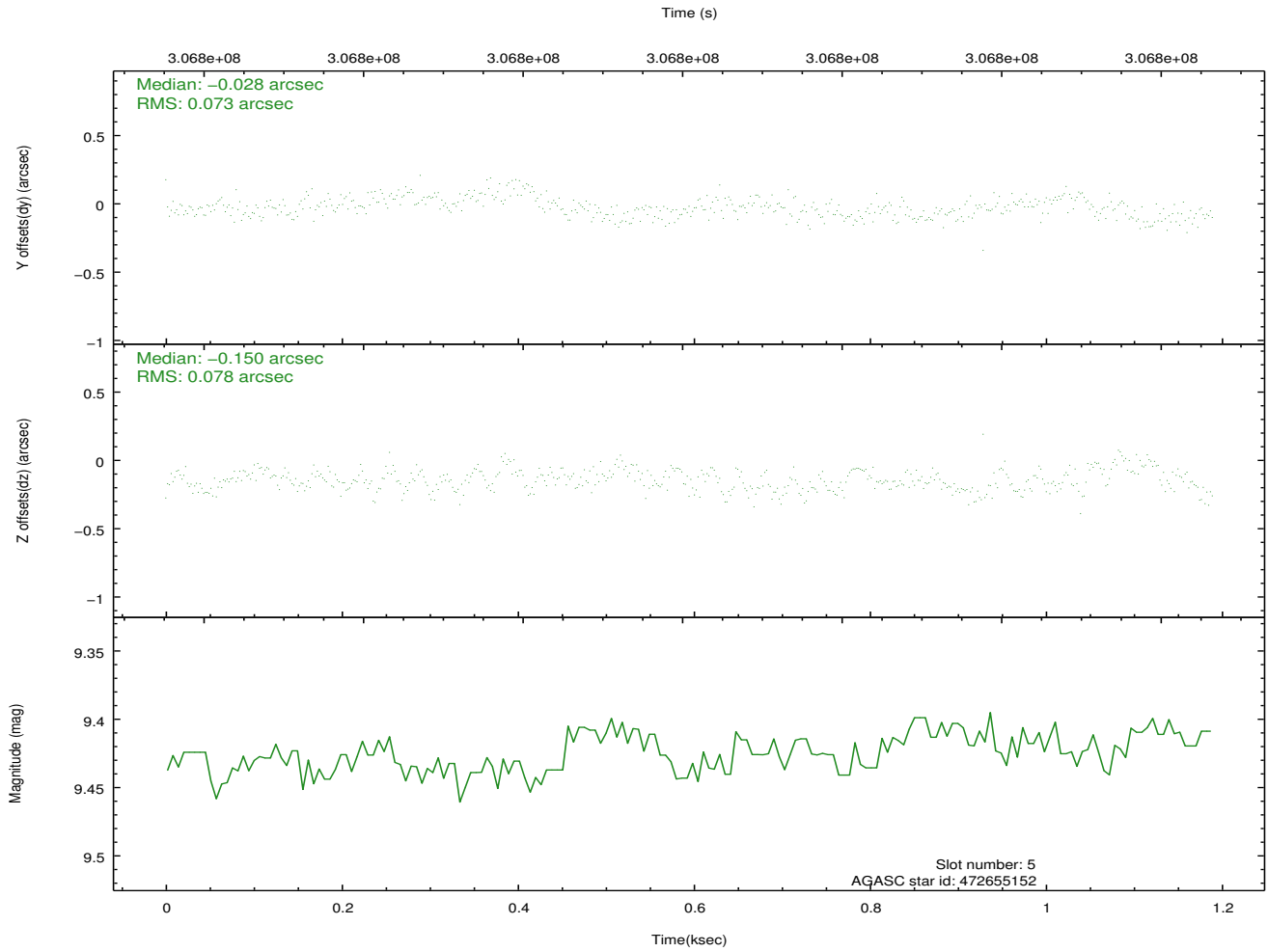
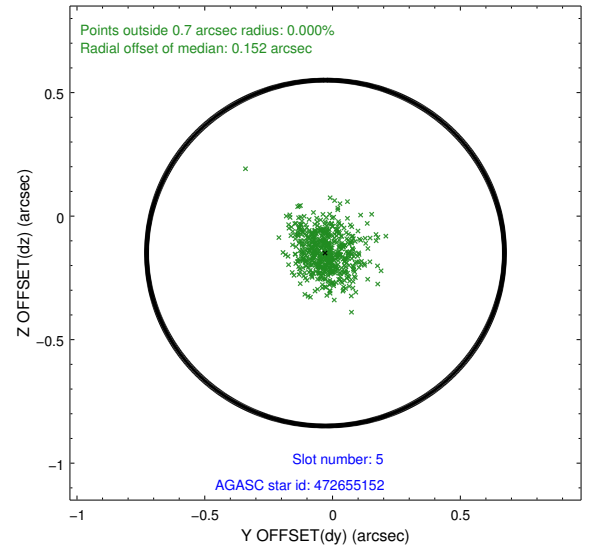
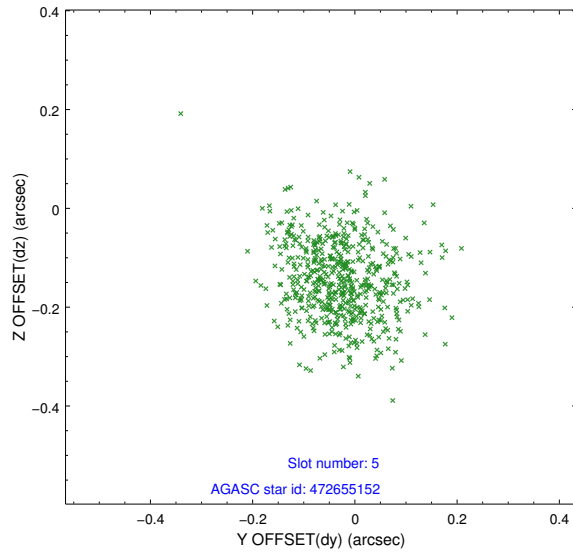
### 2.4.1 Slot 3



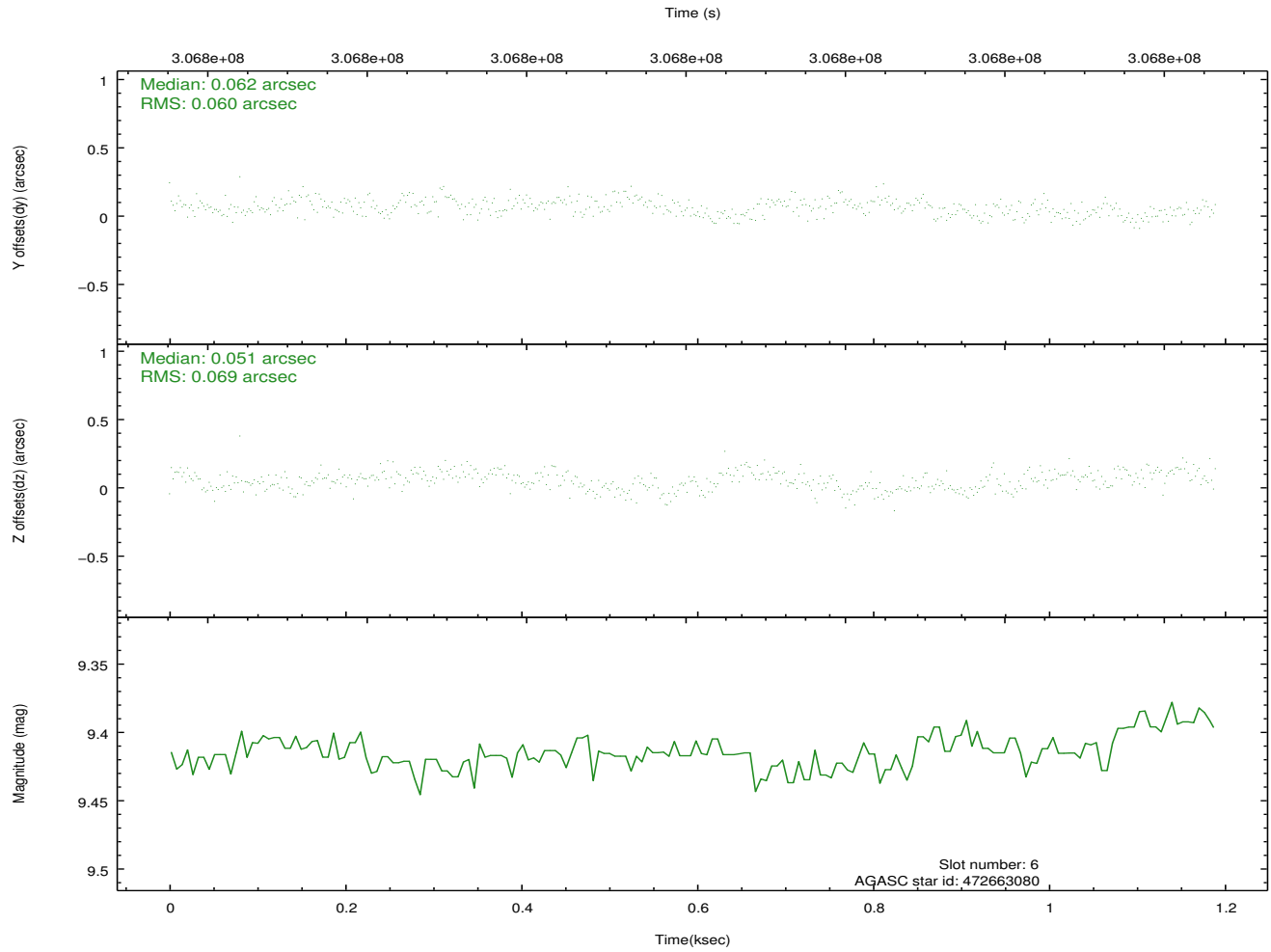
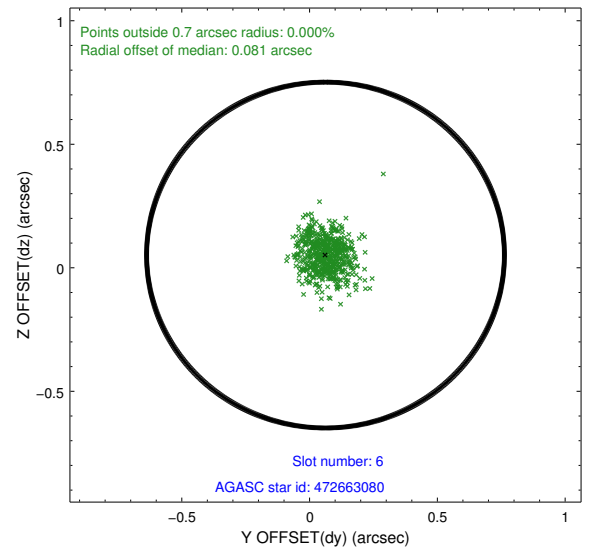
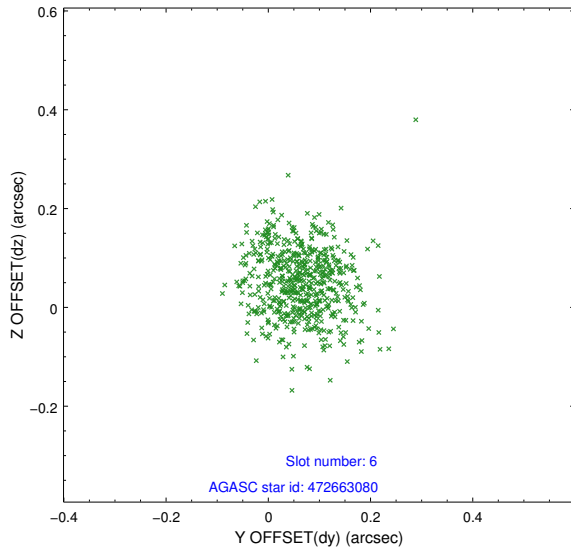
## 2.4.2 Slot 4



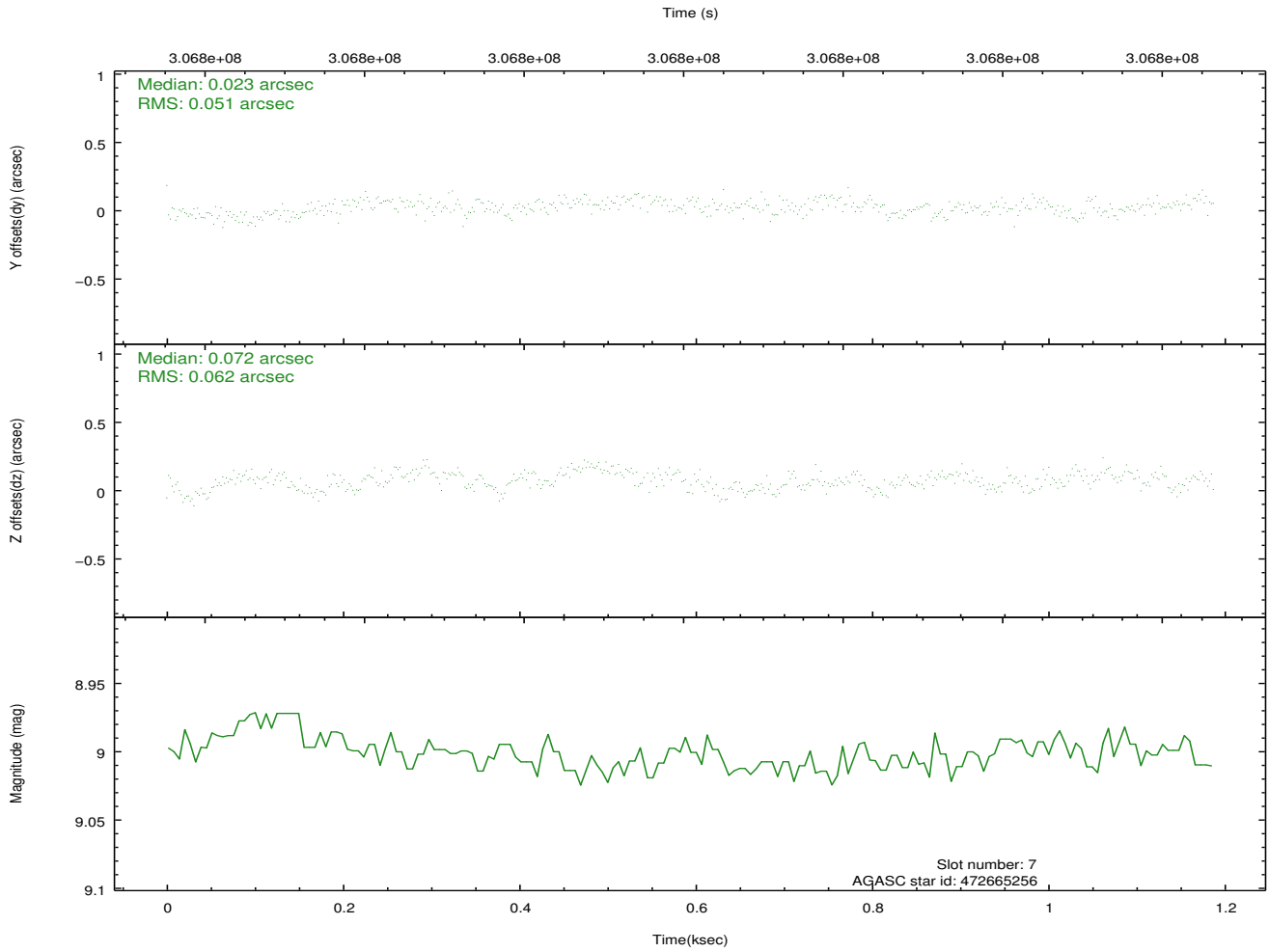
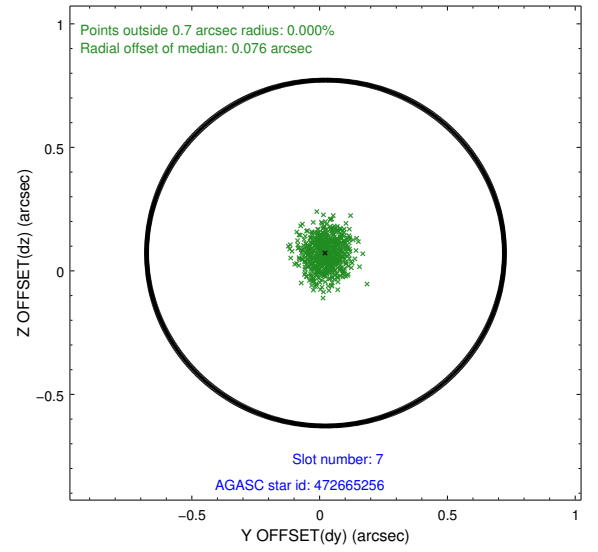
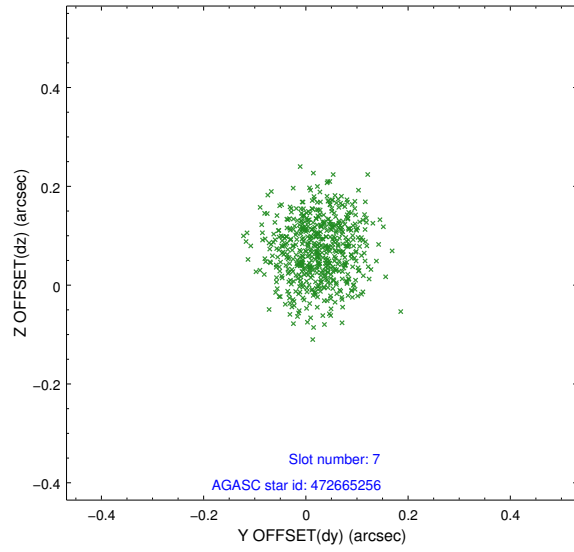
### 2.4.3 Slot 5



## 2.4.4 Slot 6

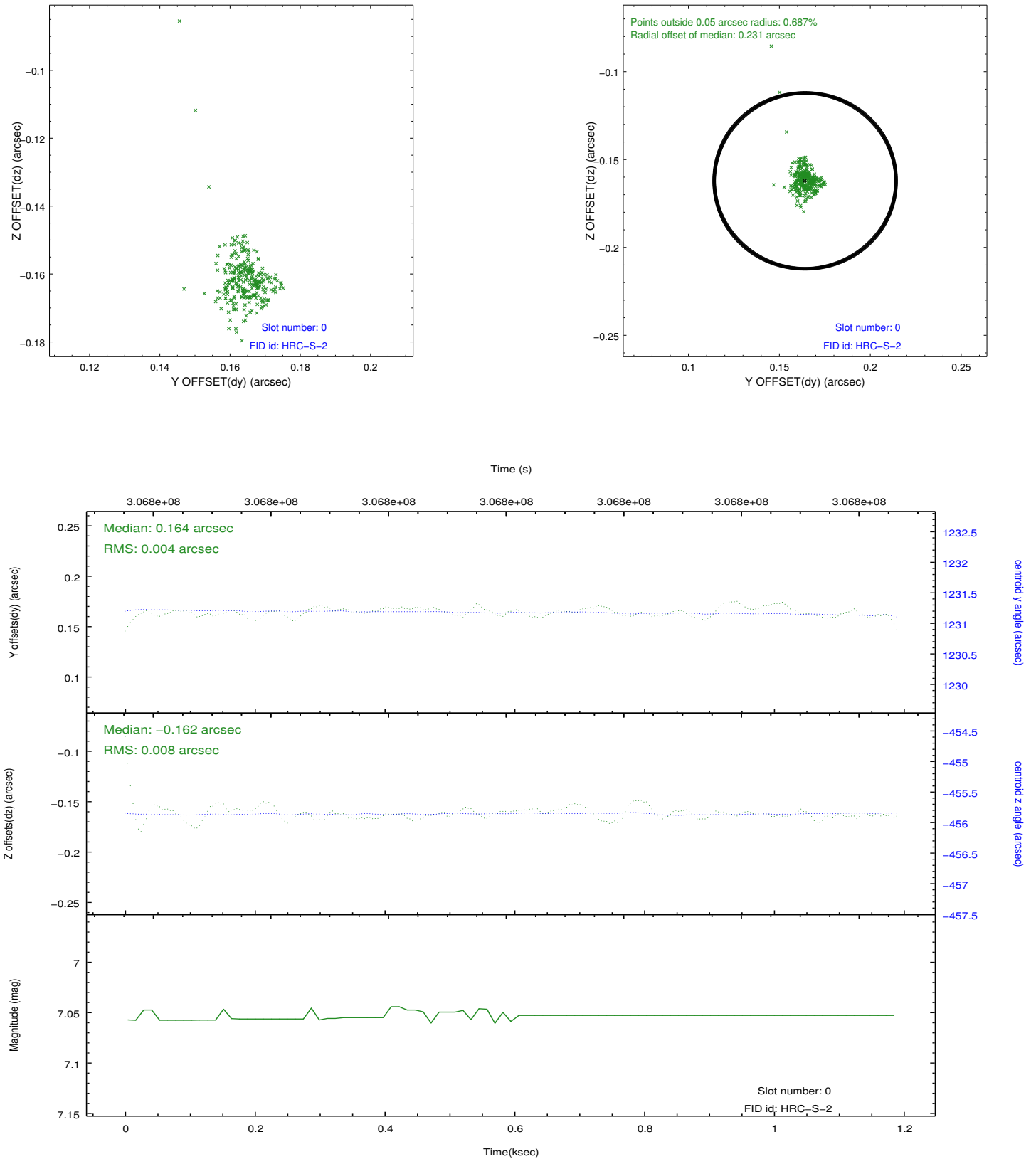


## 2.4.5 Slot 7

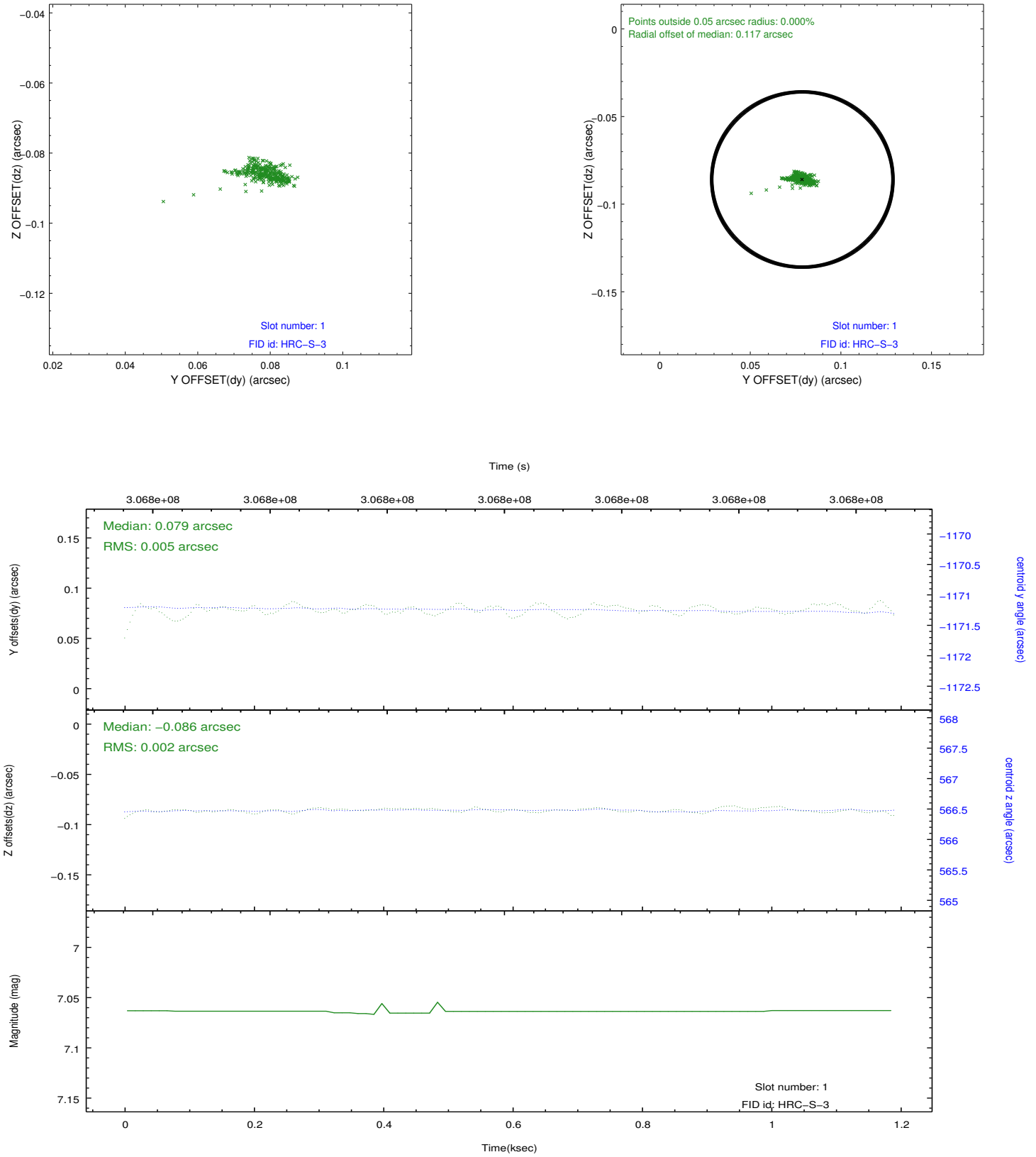


## 2.5 FID Slots

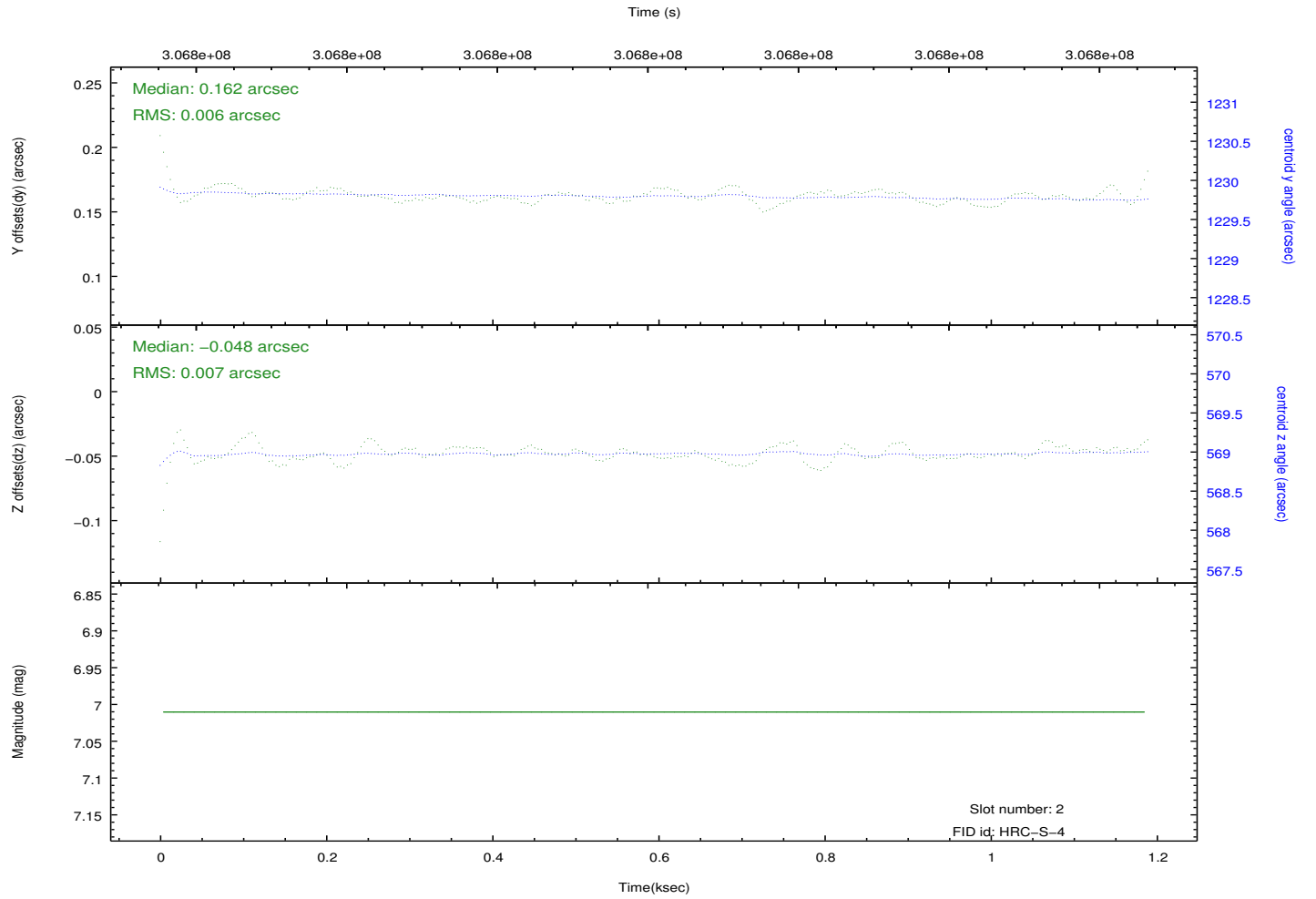
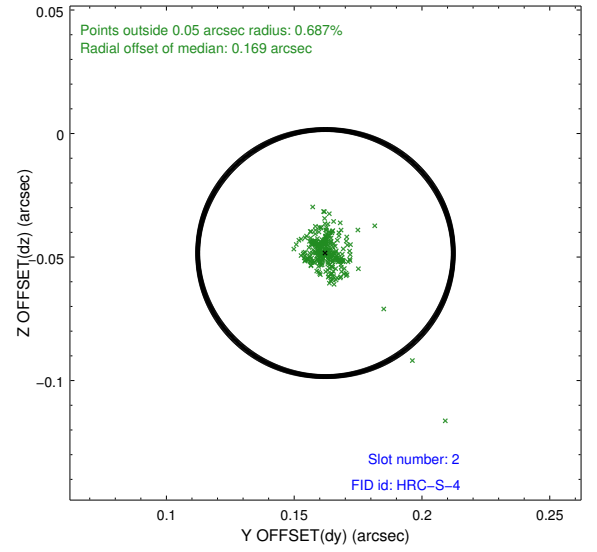
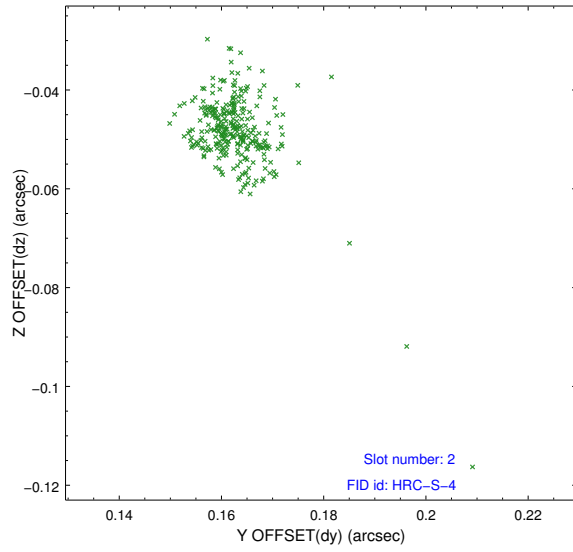
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.08.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1595313

### A.2 Comments