

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11923 - L2 Version 2  
Chandra X-Ray Center

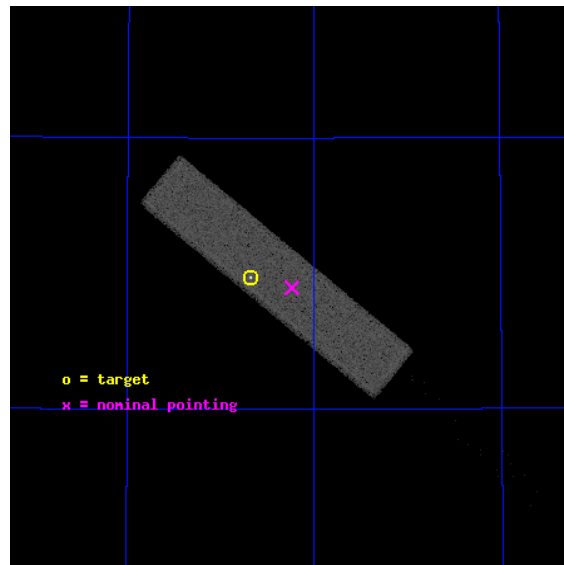
L2 Processing Date : Jul 3 2012

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# 1 Front

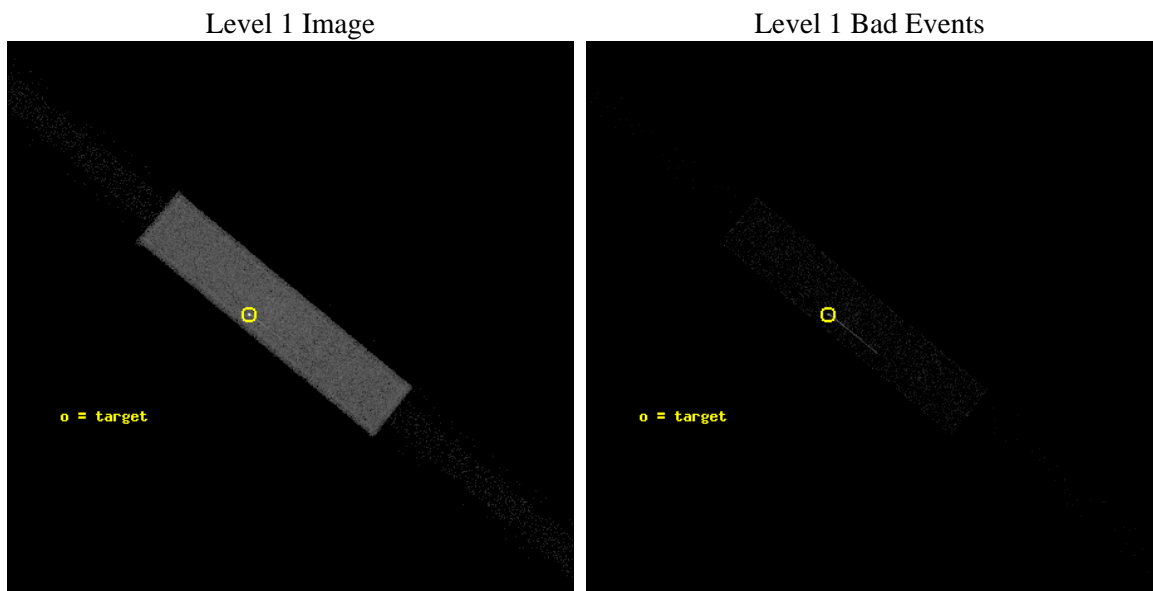
seq_num	290912	Sequence number
obs_id	11923	Observation id
title	AO-11 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.05956887305	Nominal RA [deg]
dec_nom	45.723630492399	Nominal Dec [deg]
roll_nom	219.39339551225	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1151.3313089609	[s]
livetime	1141.7674064609	Ontime multiplied by DTCOR
l2events	71169	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	1151.3313089609	[s]
caldsver	4.5.0	&#160	l1events	110266	Number of level 1 events
date	2012-07-03T23:46:03	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

Level 1 Events

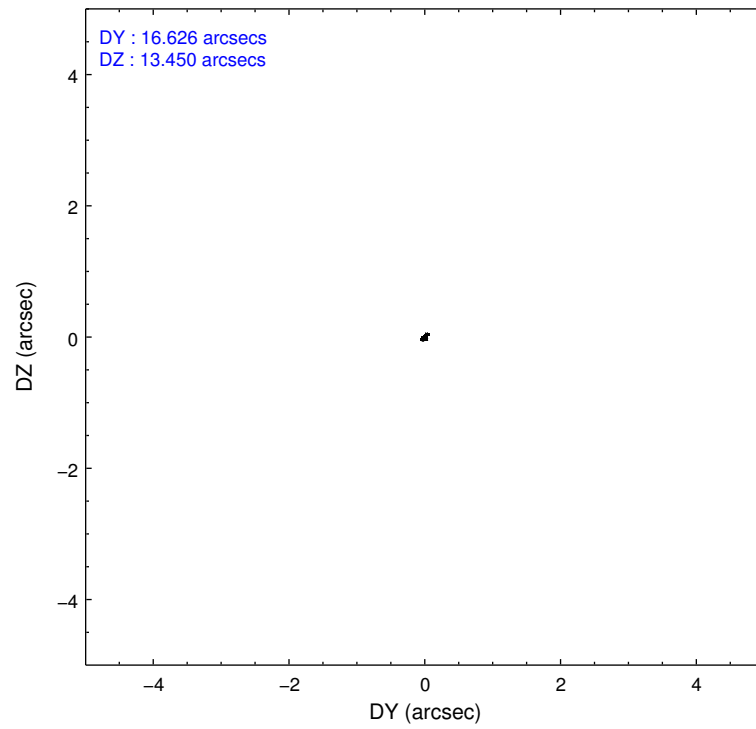
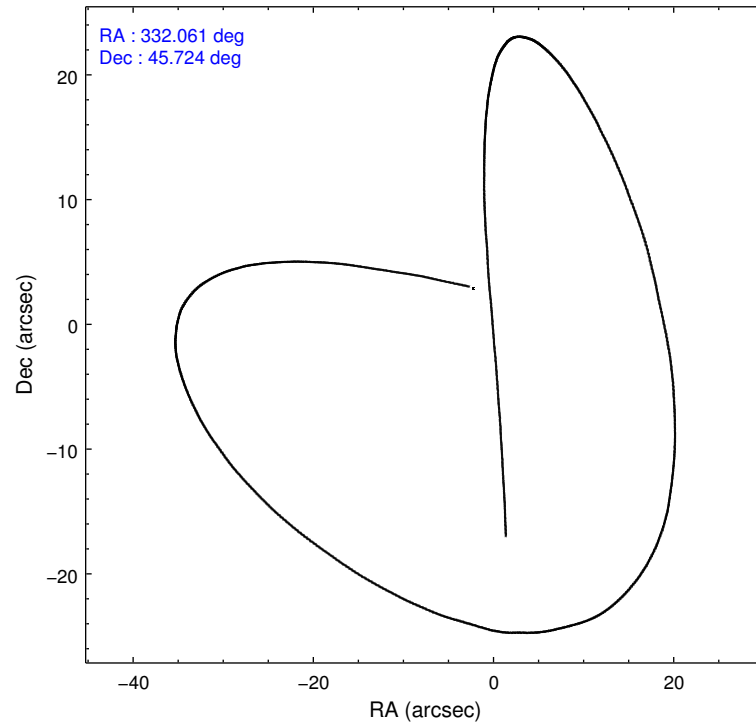
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	877	108481	908
rejected events	876	24876	870
rejected %	99%	22%	95%

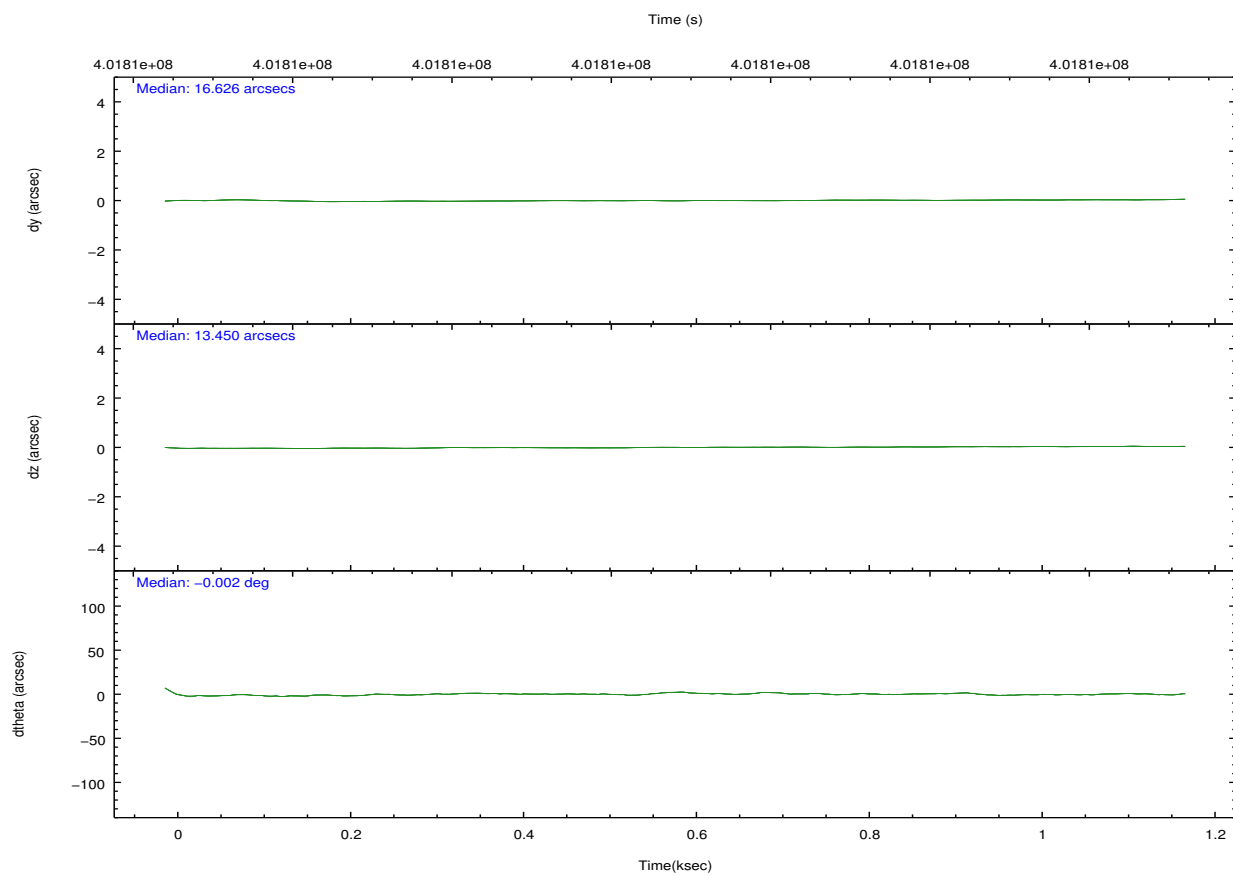
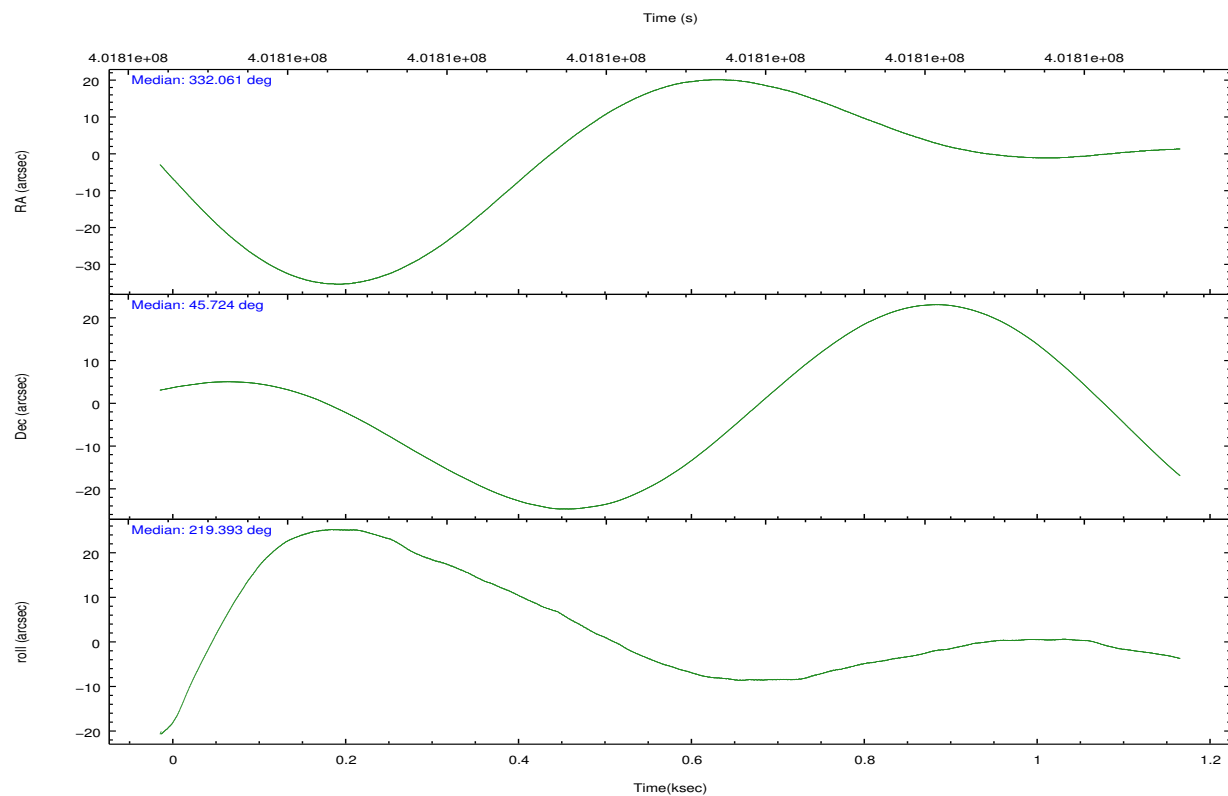
## 2.2 Compared Parameters

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	332.073038	332.0595688730458
[deg] Pointing Dec	45.750262	45.72363049239866
[deg] Pointing Roll	219.316445	219.3933955122504
[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)	401805669.184000	401805293.23881
Observation start date	2010-09-25T12:40:03	2010-09-25T12:34:53
[s] Observation end time (MET)	401806669.184000	401806803.06389
Observation end date	2010-09-25T12:56:43	2010-09-25T13:00:03

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

## 2.3 Aspect





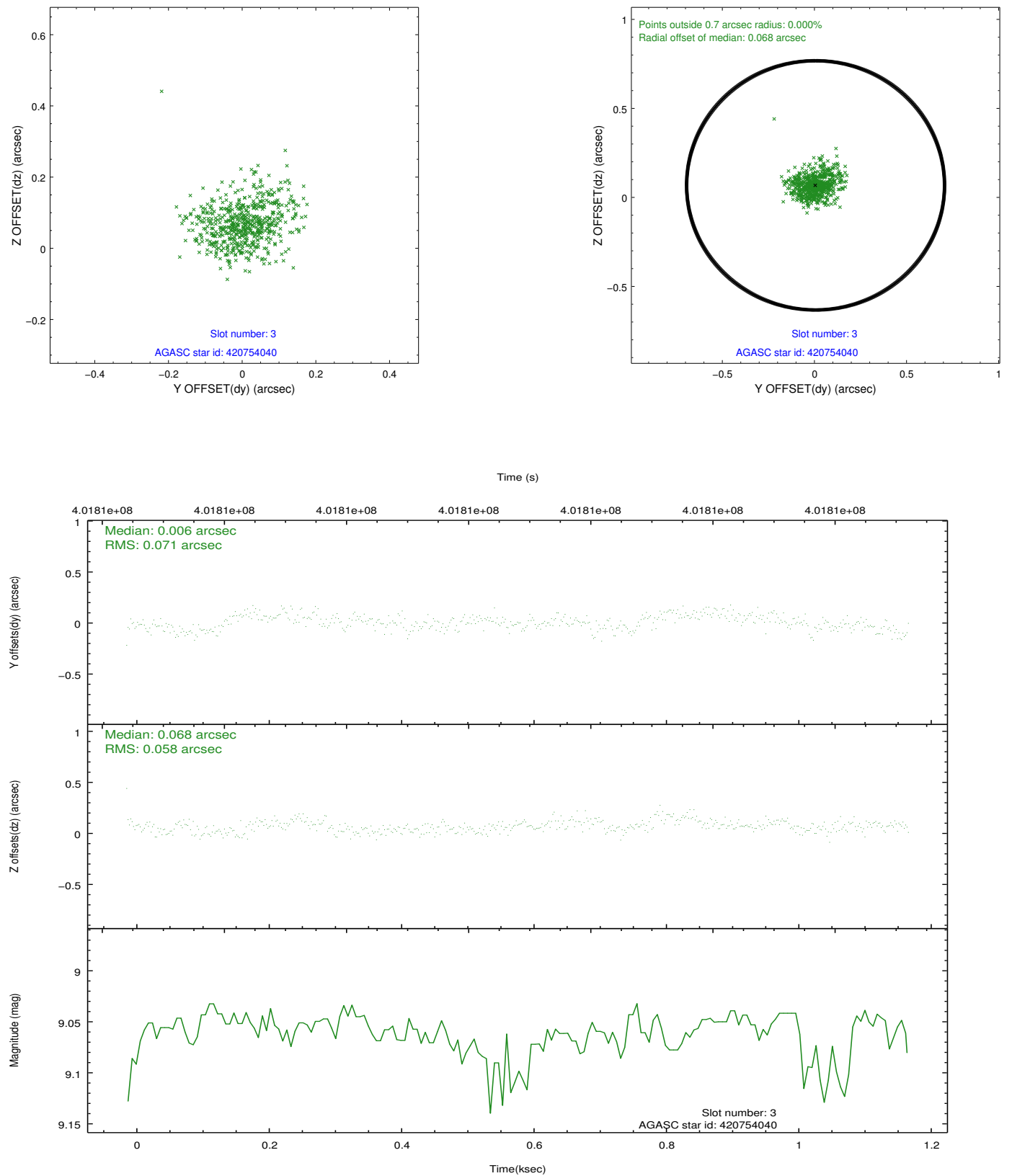
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.99	288	-0.039	-0.145	0.005	0.012	0.000000	0.000000	-1171.20	-462.22
1	FID	HRC-S-2	6.97	287	0.208	-0.036	0.013	0.025	0.000000	0.000000	1224.62	-456.41
2	FID	HRC-S-4	6.93	288	0.234	-0.124	0.012	0.022	0.000000	0.000000	1231.58	568.25
3	GUIDE	420754040	9.06	577	0.006	0.068	0.098	0.153	331.917939	44.882543	2284.16	2170.06
4	GUIDE	472523760	8.24	577	0.026	-0.077	0.068	0.110	331.645363	45.403260	1630.27	286.65
5	GUIDE	472533912	9.14	576	0.067	0.182	0.135	0.206	331.791136	46.368695	-866.59	-2162.72
6	GUIDE	472651904	6.41	577	-0.108	-0.224	0.078	0.146	332.170077	45.742257	-171.79	175.60
7	GUIDE	472655152	9.42	570	0.024	0.041	0.157	0.237	332.504239	45.862991	-1095.39	372.78

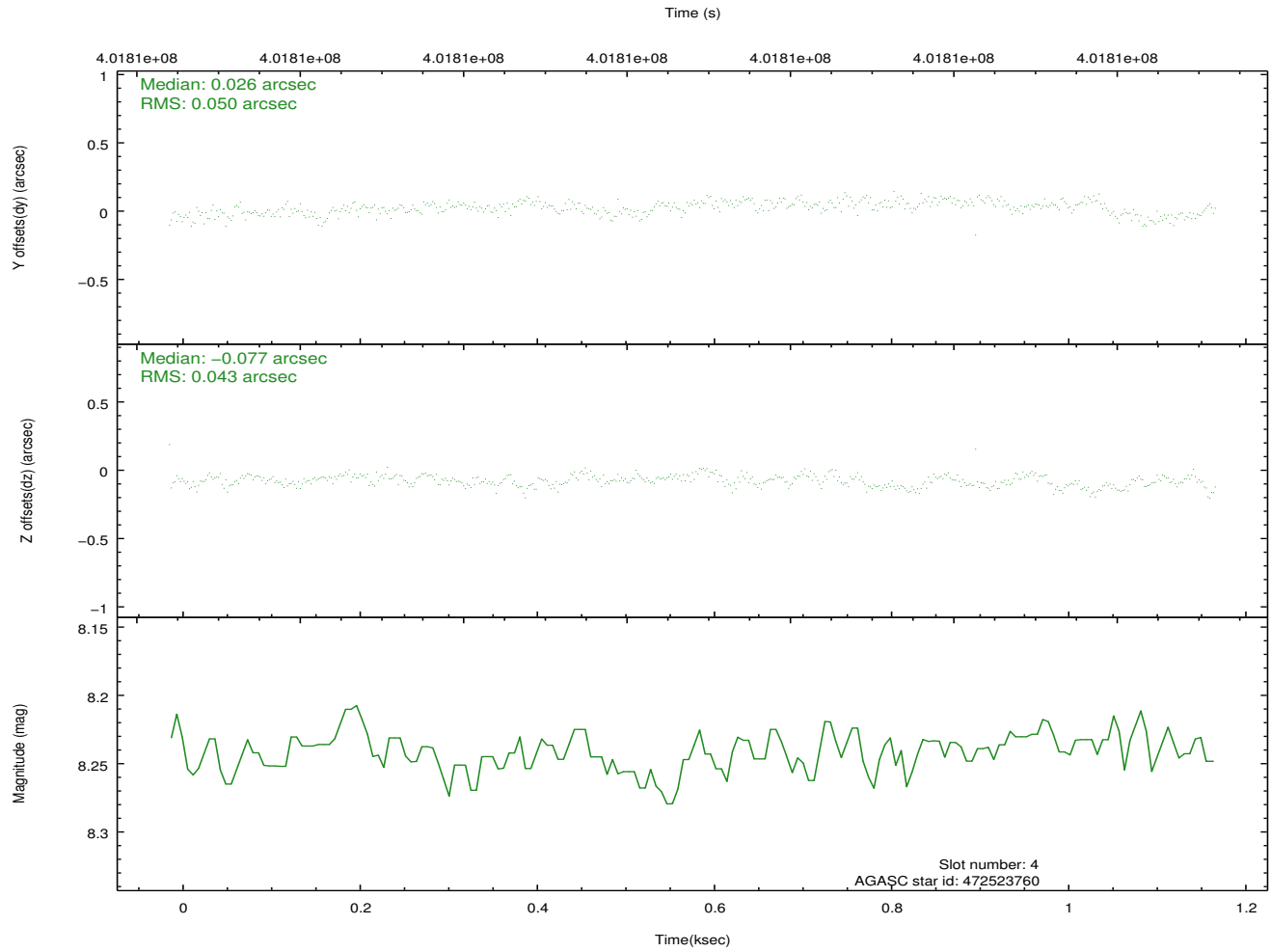
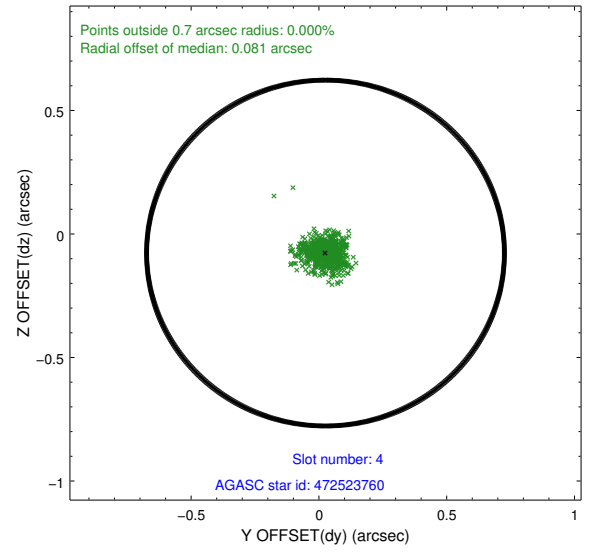
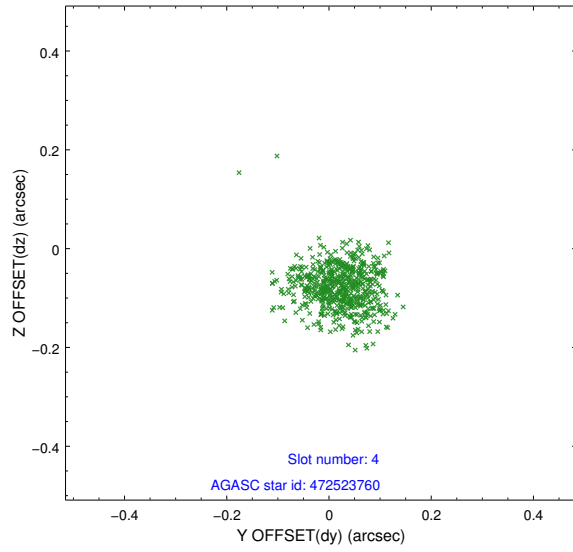


## 2.4 Star Slots

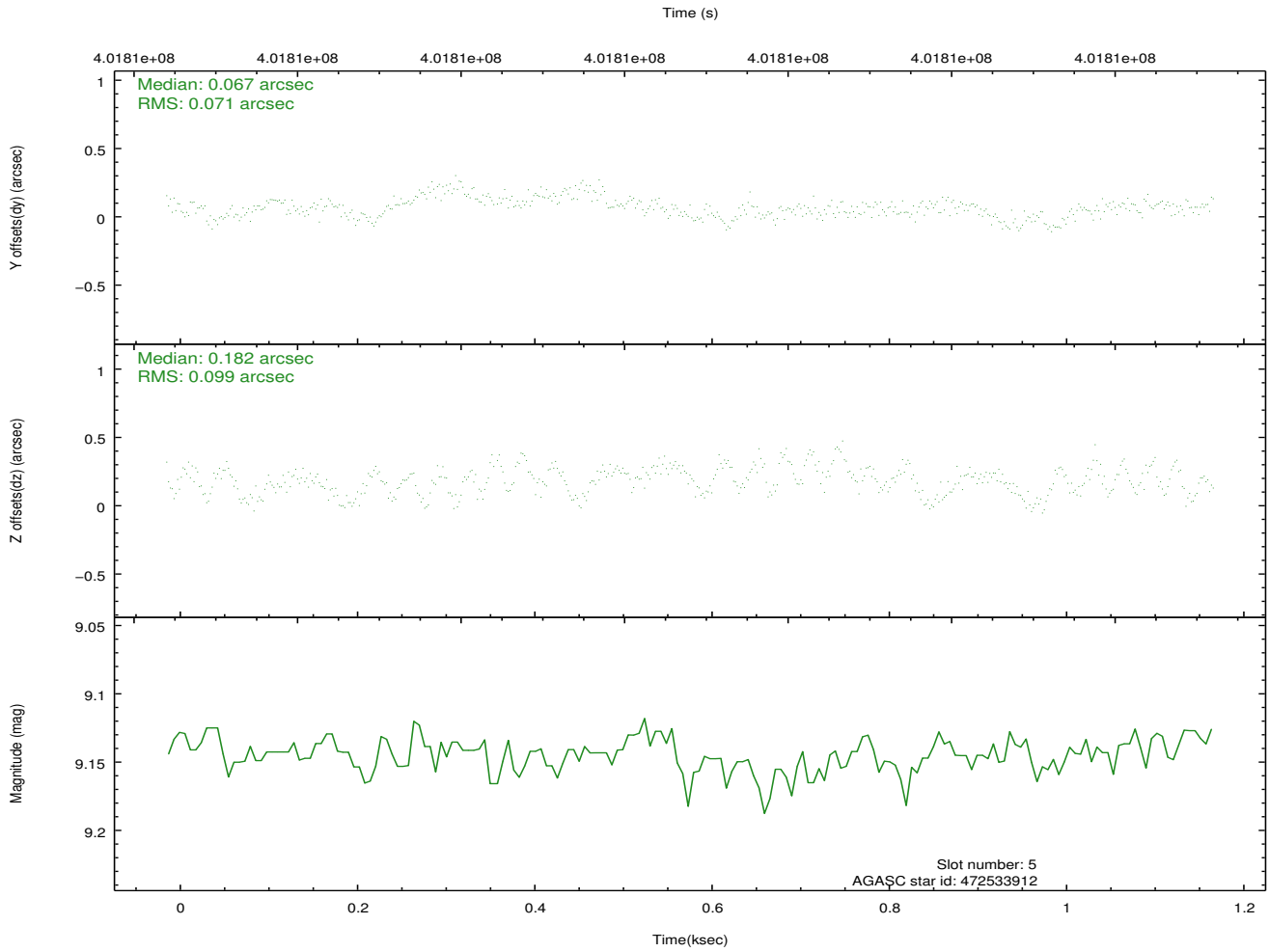
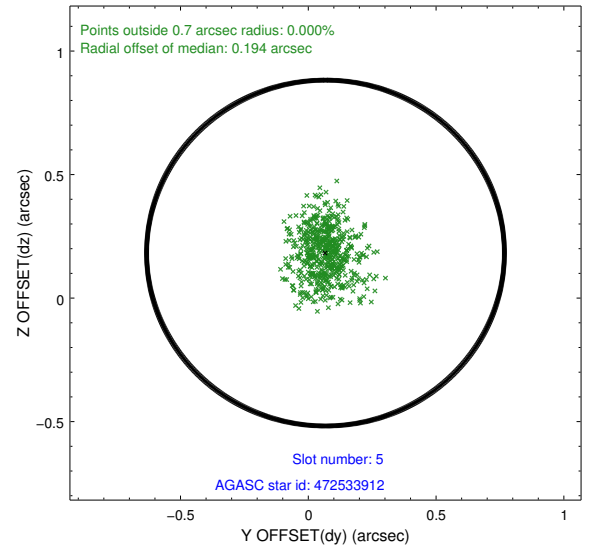
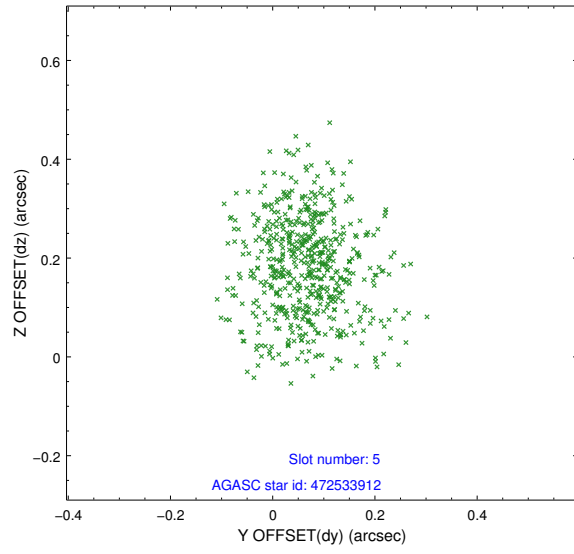
### 2.4.1 Slot 3



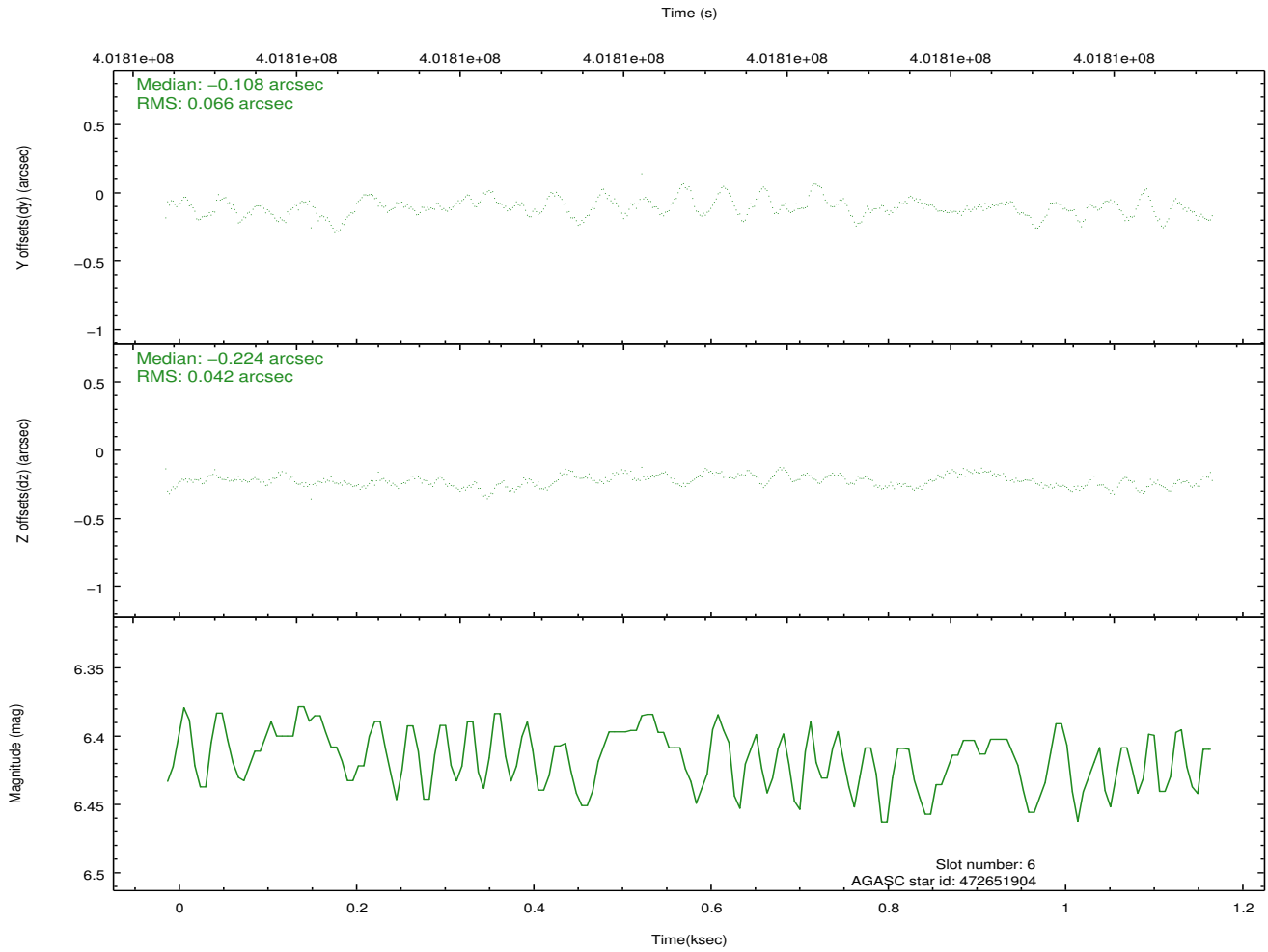
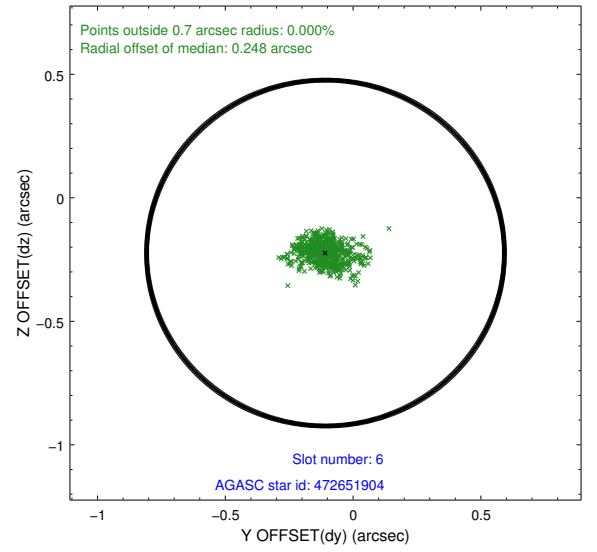
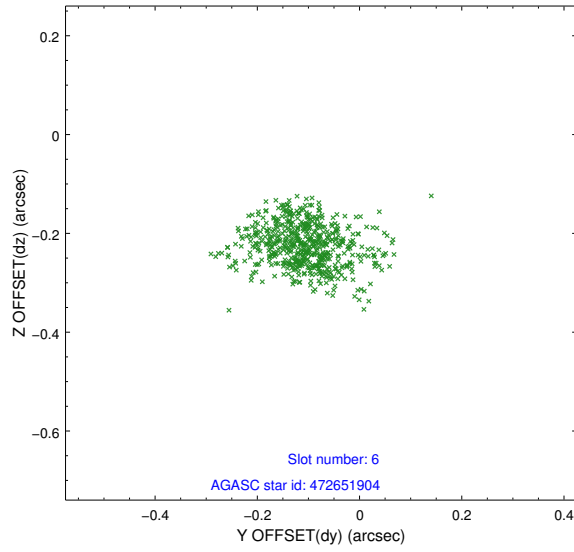
## 2.4.2 Slot 4



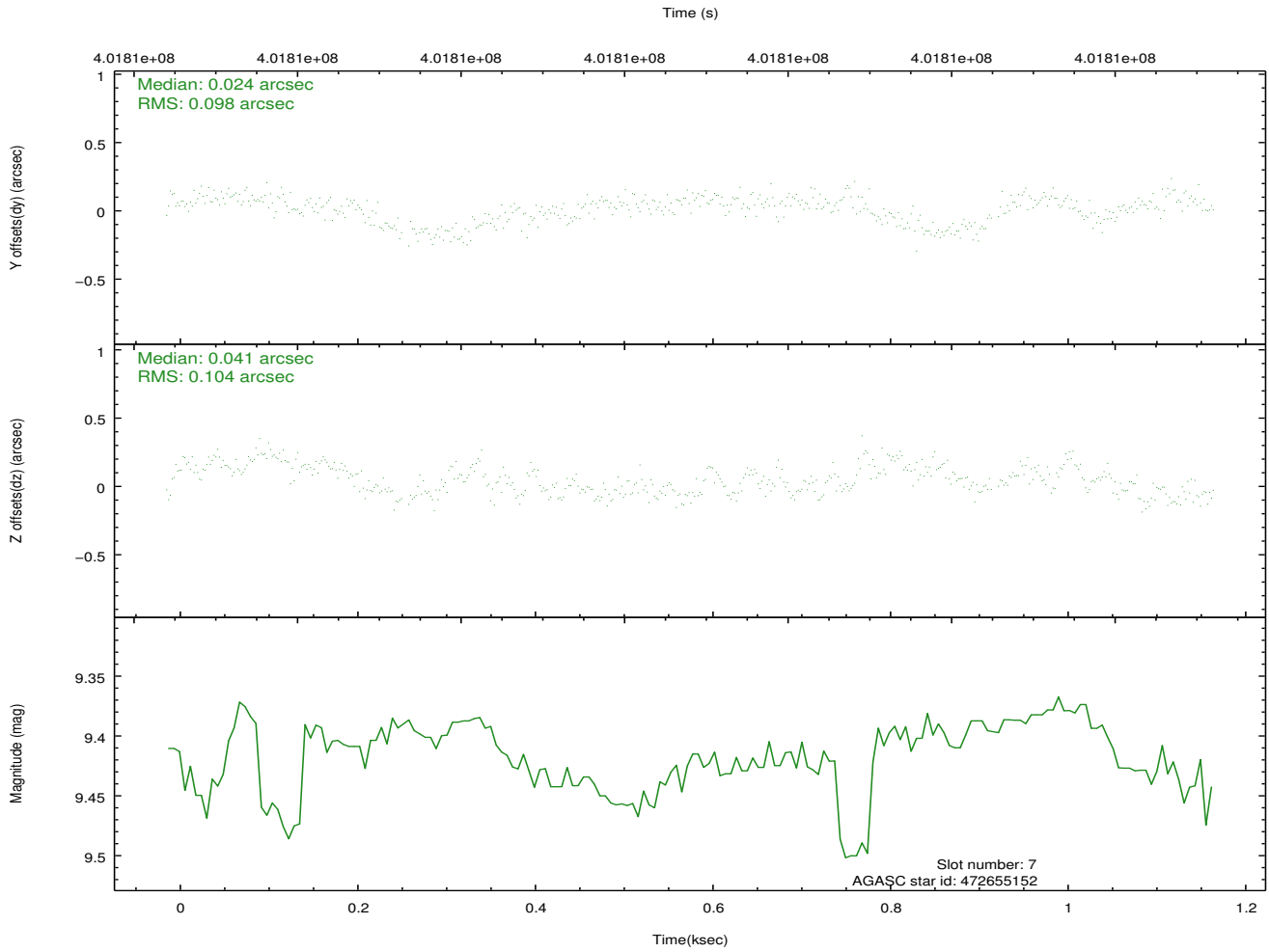
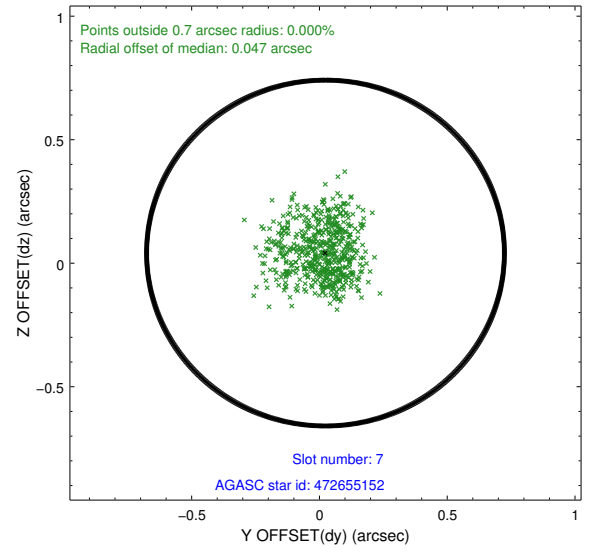
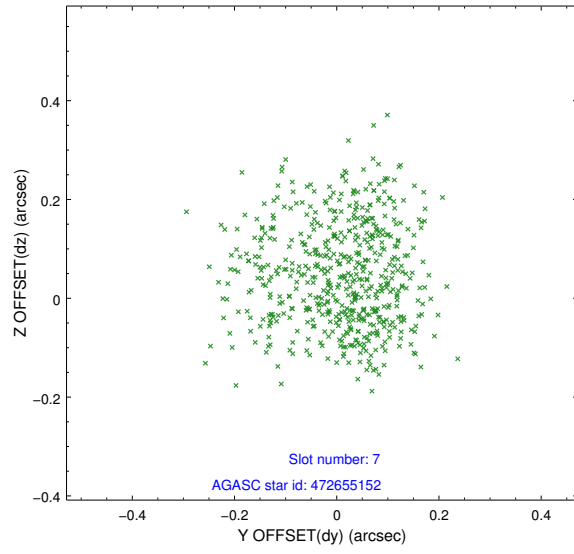
### 2.4.3 Slot 5



## 2.4.4 Slot 6

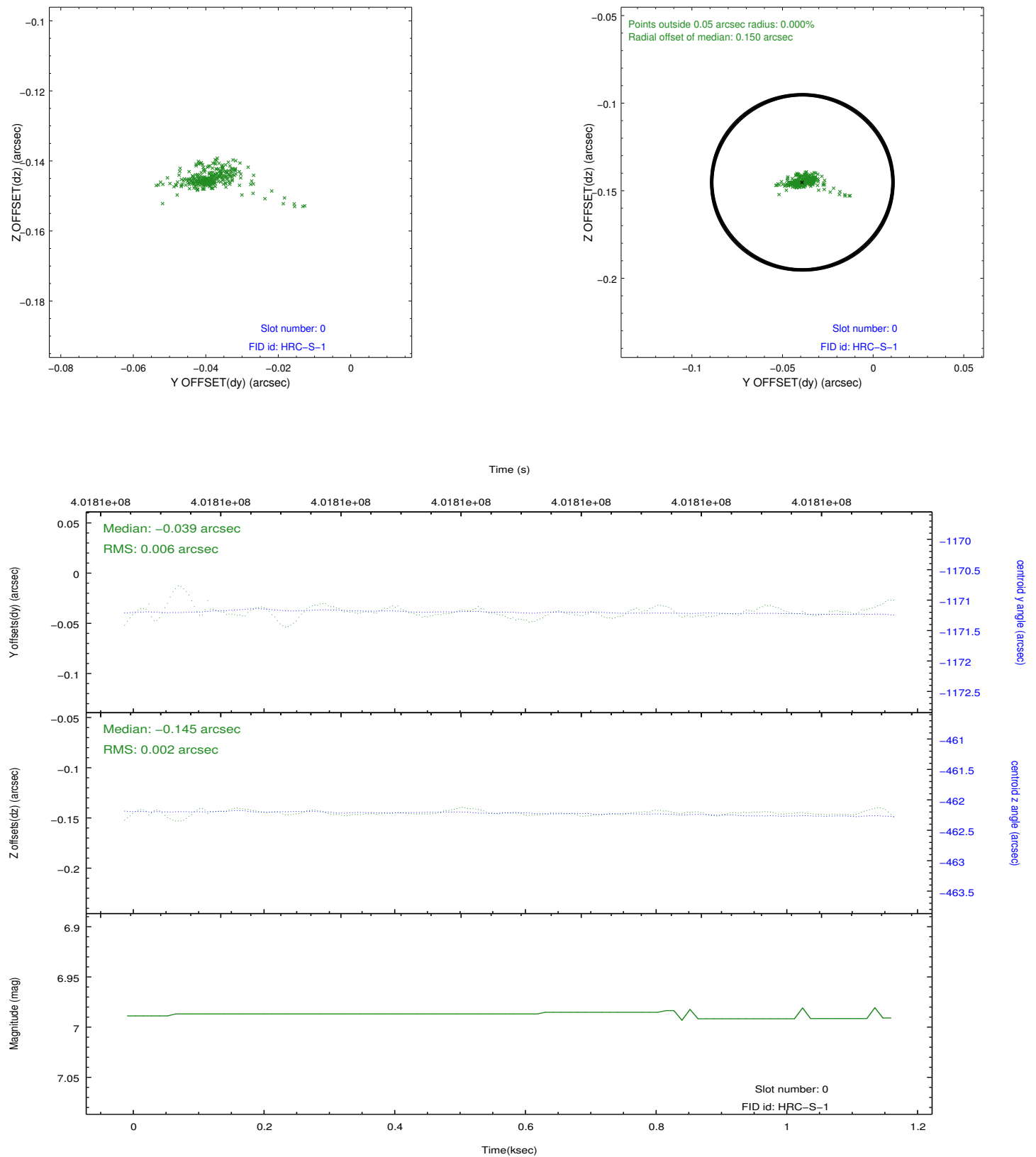


## 2.4.5 Slot 7

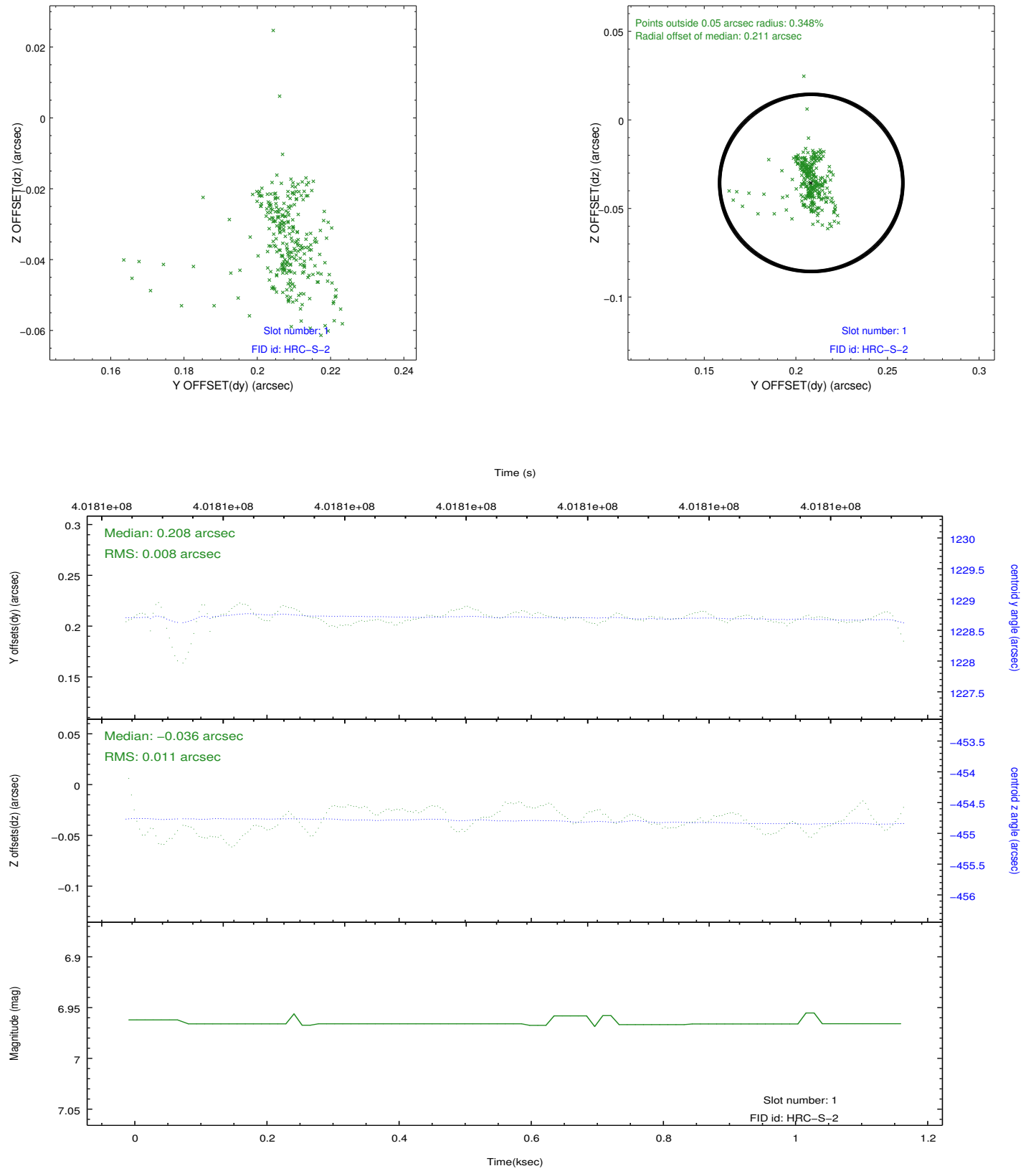


## 2.5 FID Slots

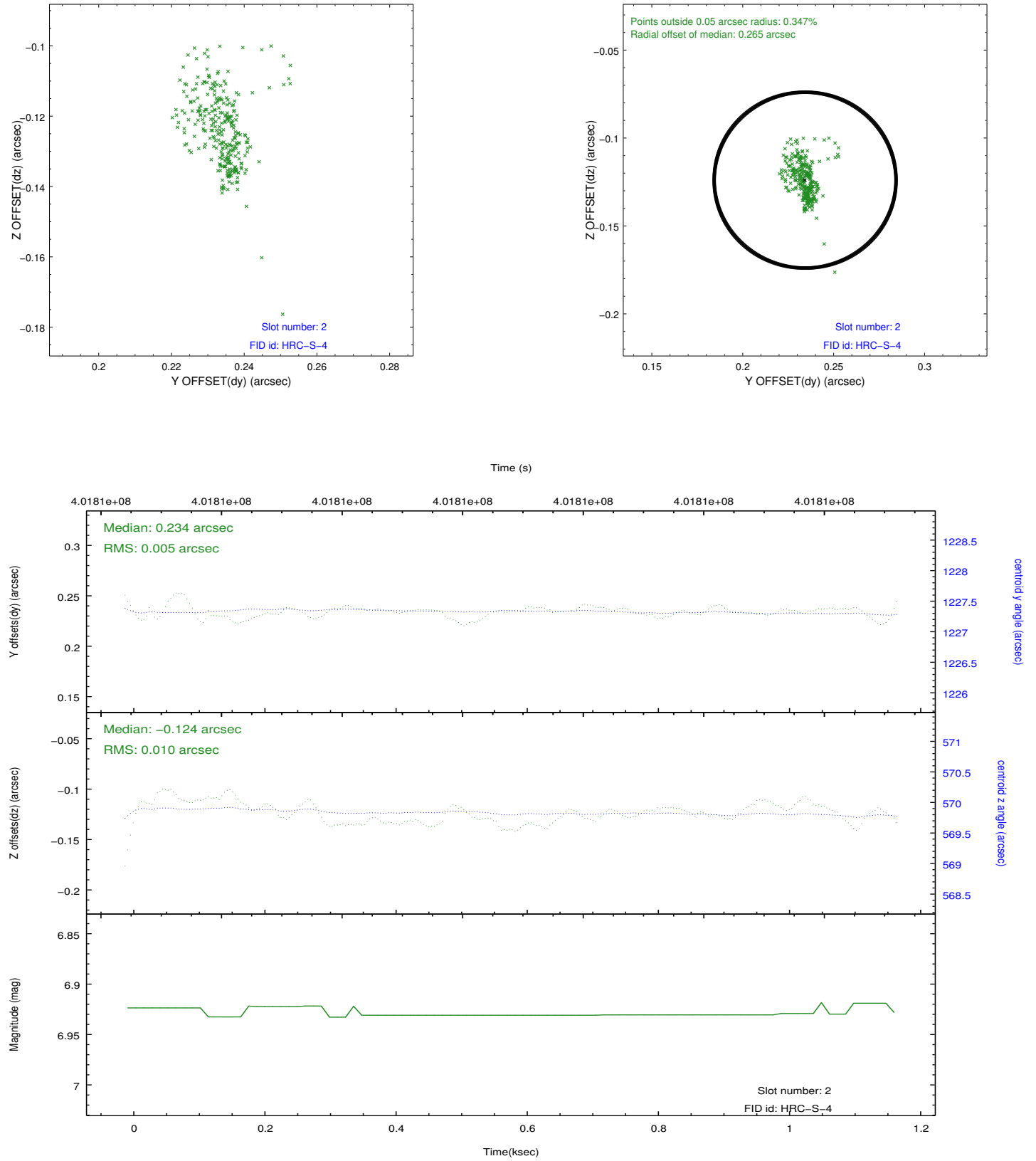
### 2.5.1 Slot 0



## 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)	2012.07.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1510750591159

### A.2 Comments