

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13069 - L2 Version 4  
Chandra X-Ray Center

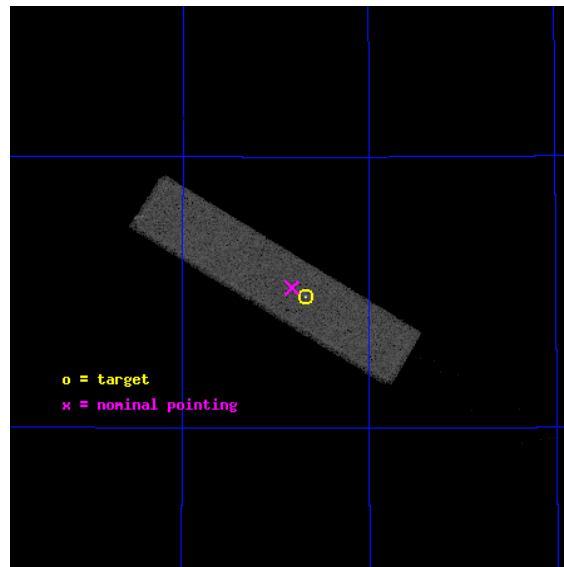
L2 Processing Date : Aug 9 2012

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# 1 Front

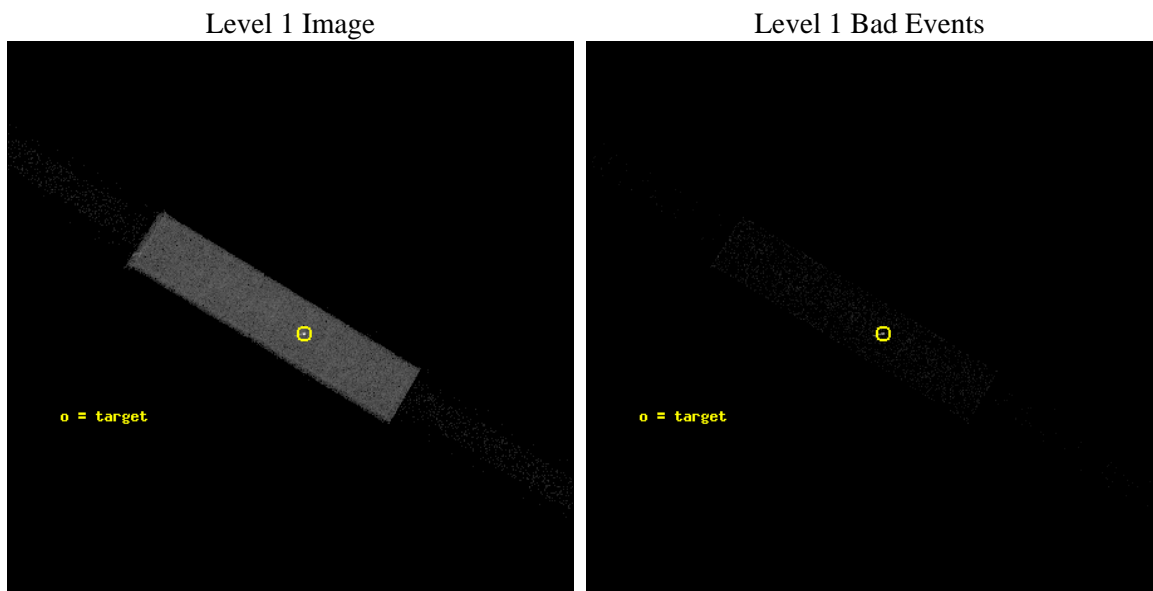
seq_num	290988	Sequence number
obs_id	13069	Observation id
title	AO-12 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.20670977721	Nominal RA [deg]
dec_nom	45.759065891384	Nominal Dec [deg]
roll_nom	211.15180519112	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1161.5813109875	[s]
livetime	1152.6662486937	Ontime multiplied by DTCOR
l2events	67073	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	1161.5813109875	[s]
caldbver	4.5.1.1	&#160	l1events	101893	Number of level 1 events
date	2012-08-10T00:59:10	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

Level 1 Events

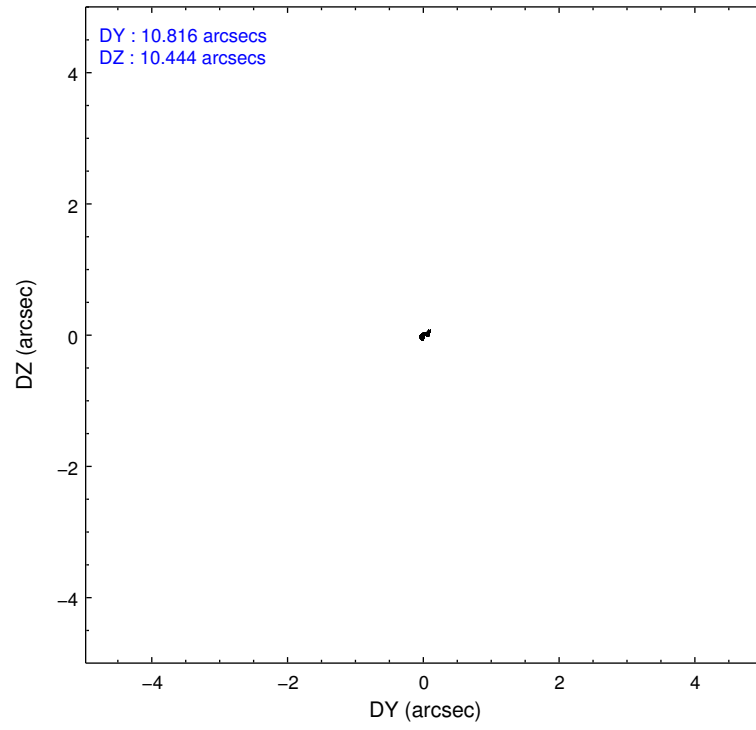
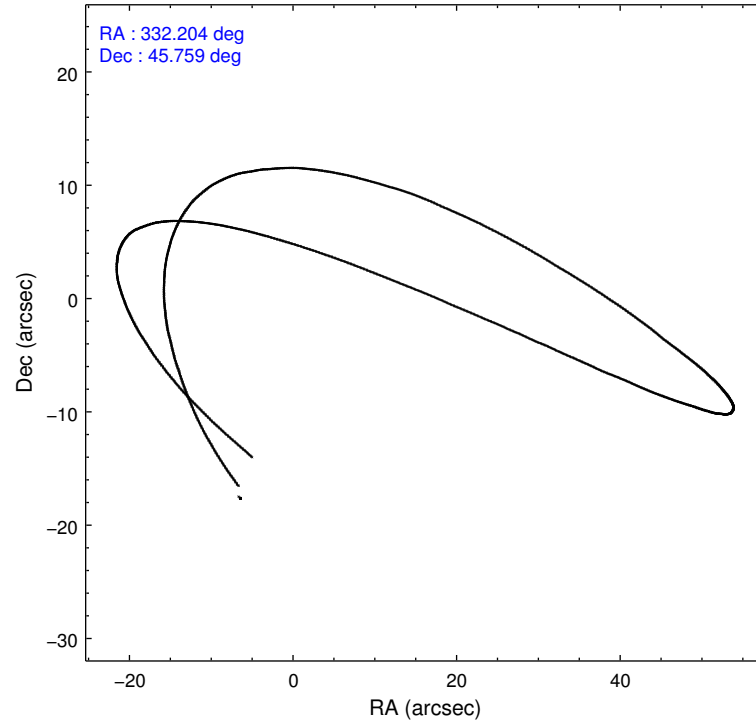
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	982	99979	932
rejected events	982	22174	914
rejected %	100%	22%	98%

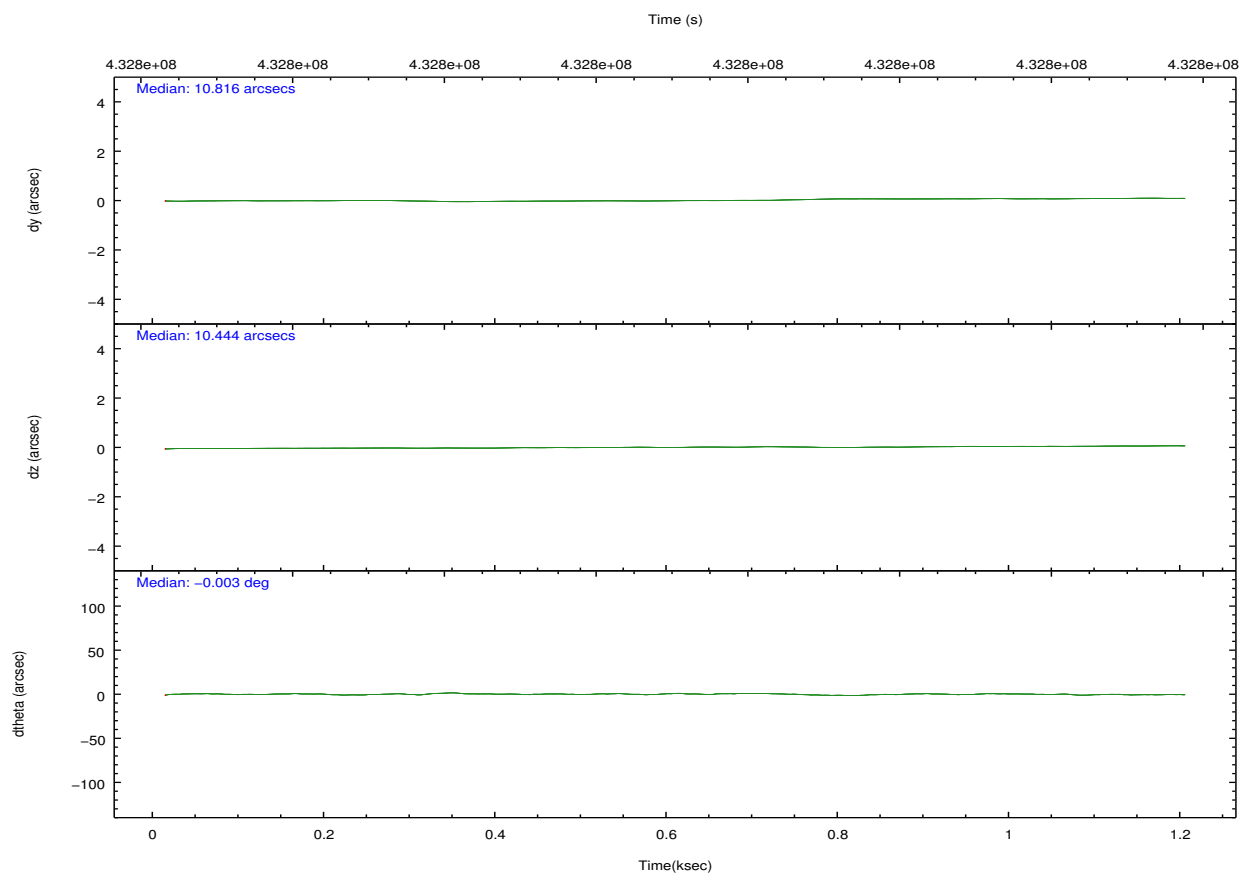
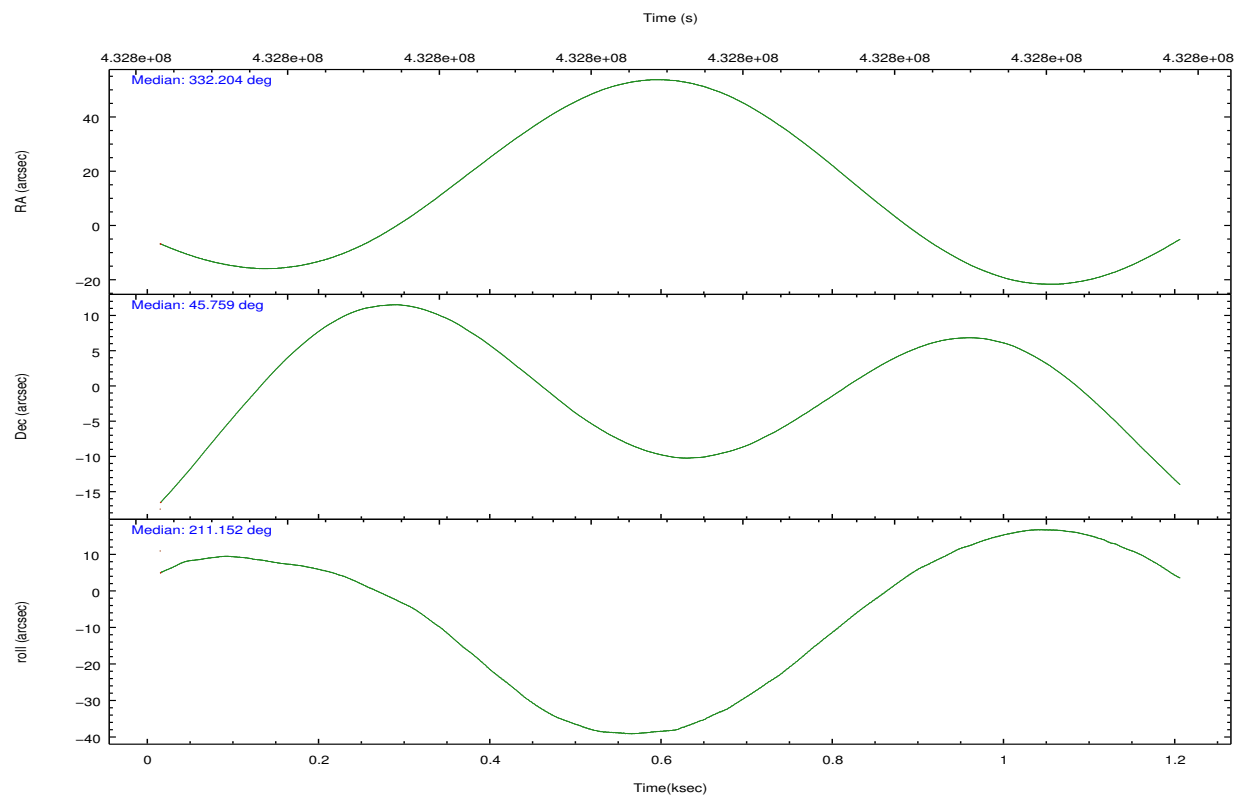
## 2.2 Compared Parameters

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	332.226124	332.2067097772068
[deg] Pointing Dec	45.784213	45.75906589138397
[deg] Pointing Roll	211.070536	211.1518051911186
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.4635187648994
[mm] SIM translation stage offset	0	-0.007540371344731511
[s] Observation start time (MET)	432803502.184000	432803126.14943
Observation start date	2011-09-19T07:10:36	2011-09-19T07:05:26
[s] Observation end time (MET)	432804502.184000	432804635.97451
Observation end date	2011-09-19T07:27:16	2011-09-19T07:30:35

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

## 2.3 Aspect





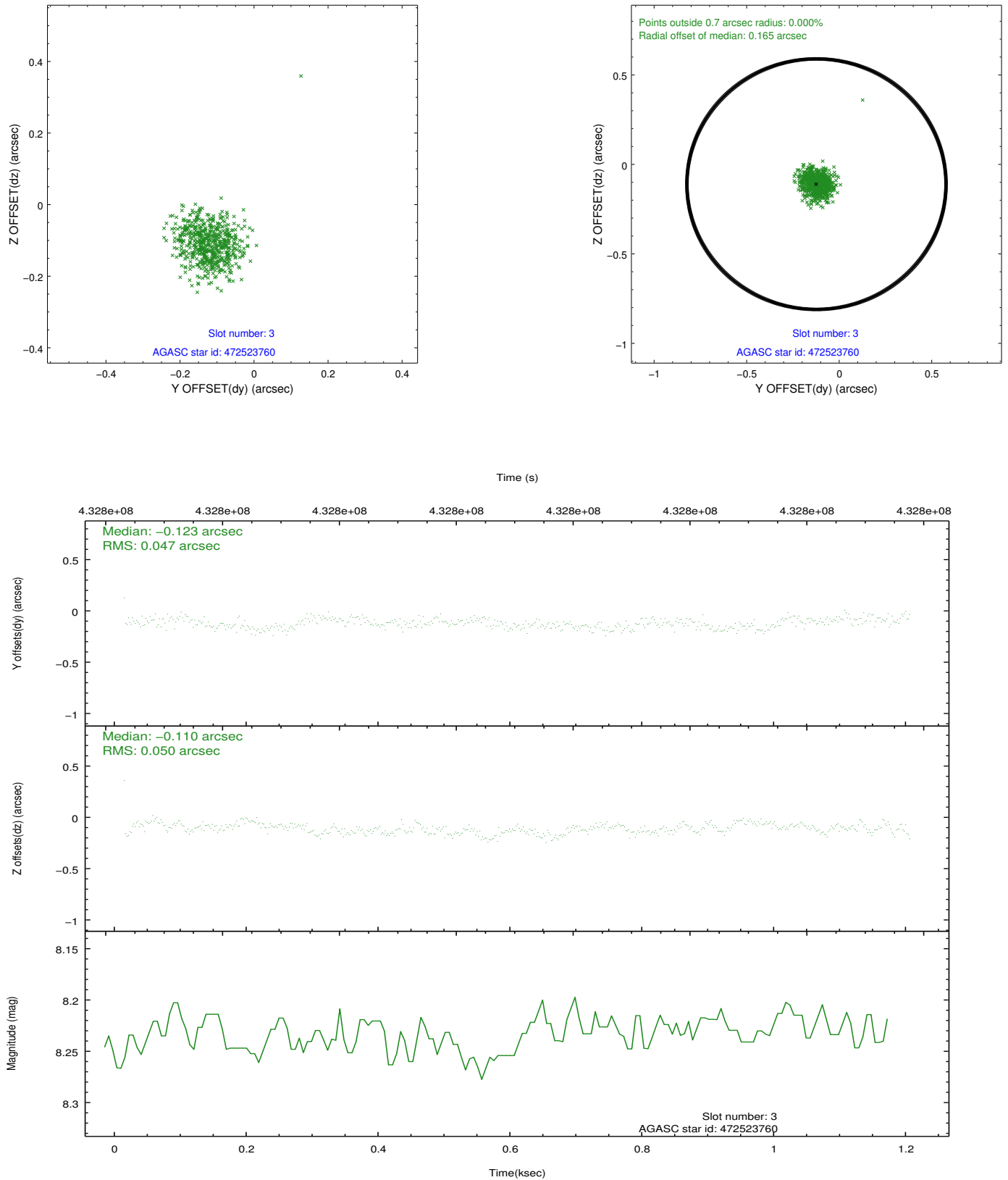
### Slot Statistics

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	291	0.051	-0.169	0.006	0.009	0.000000	0.000000	-1165.16	-459.10
1	FID	HRC-S-2	6.97	291	0.271	-0.127	0.005	0.009	0.000000	0.000000	1230.71	-453.29
2	FID	HRC-S-3	6.99	291	0.068	-0.006	0.006	0.009	0.000000	0.000000	-1163.63	569.02
3	GUIDE	472523760	8.23	582	-0.123	-0.110	0.073	0.113	331.645363	45.403260	1961.05	416.52
4	GUIDE	472533912	9.15	582	0.082	0.072	0.121	0.201	331.791136	46.368695	-159.75	-2357.64
5	GUIDE	472655152	9.44	582	-0.003	-0.176	0.112	0.186	332.504239	45.862991	-745.81	115.80
6	GUIDE	472665256	9.01	577	0.091	0.177	0.083	0.135	332.808125	46.195041	-2010.80	-518.57
7	GUIDE	420754040	9.04	581	-0.041	0.036	0.093	0.143	331.917939	44.882543	2341.68	2376.97

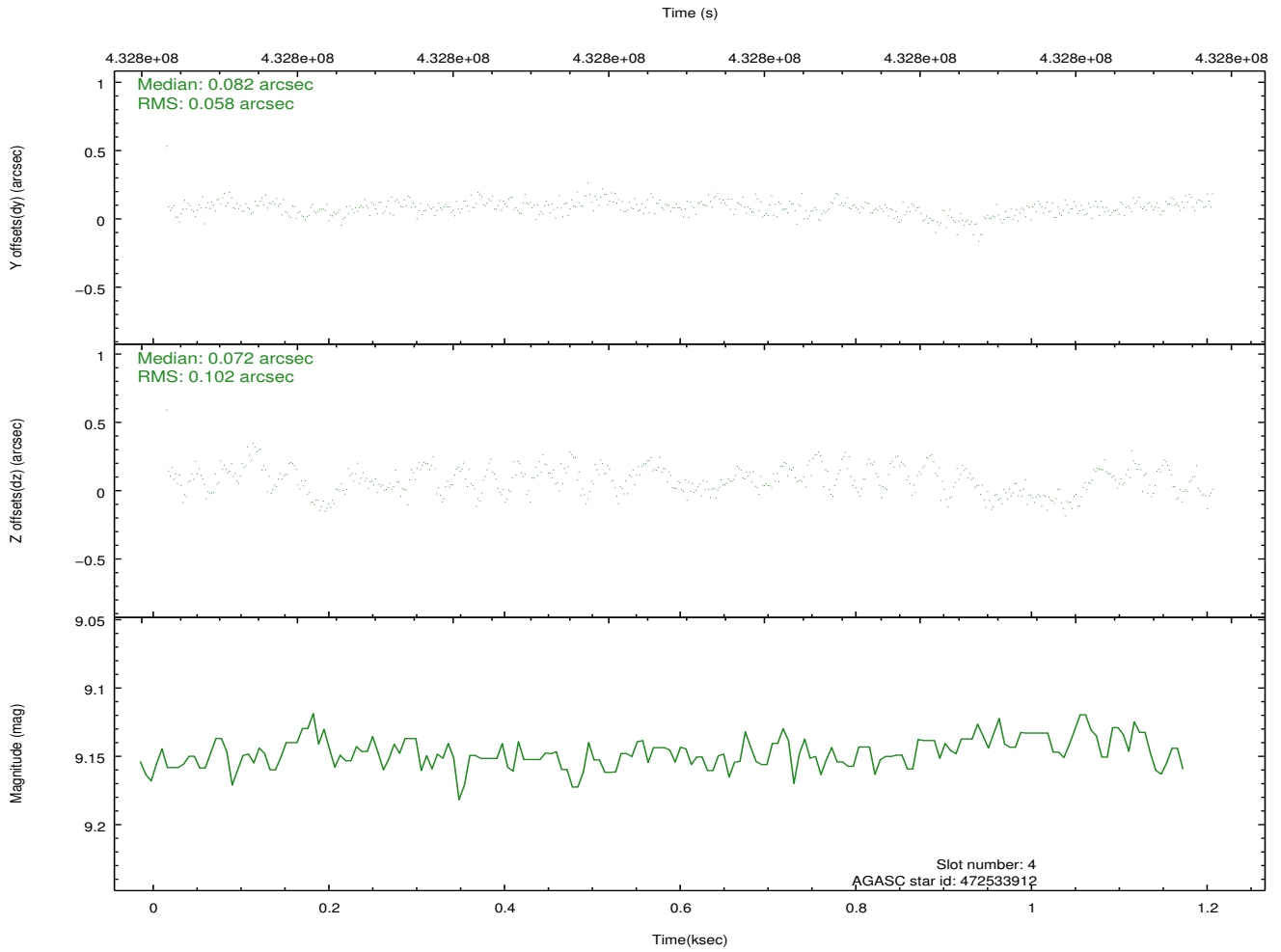
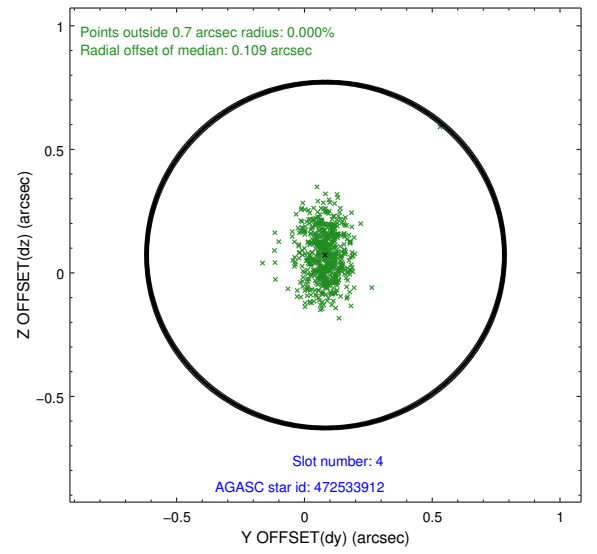
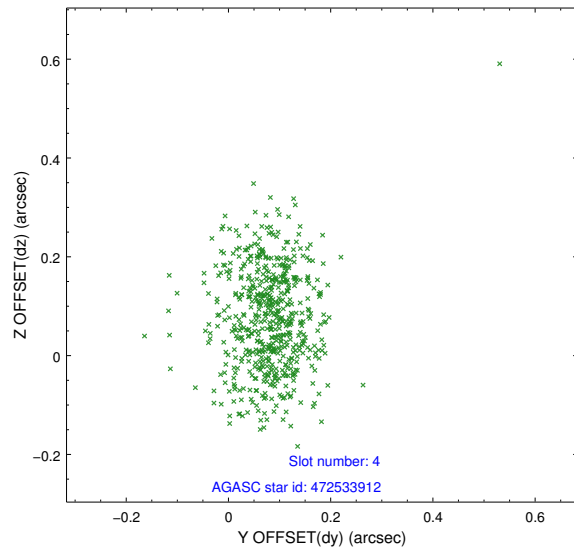


## 2.4 Star Slots

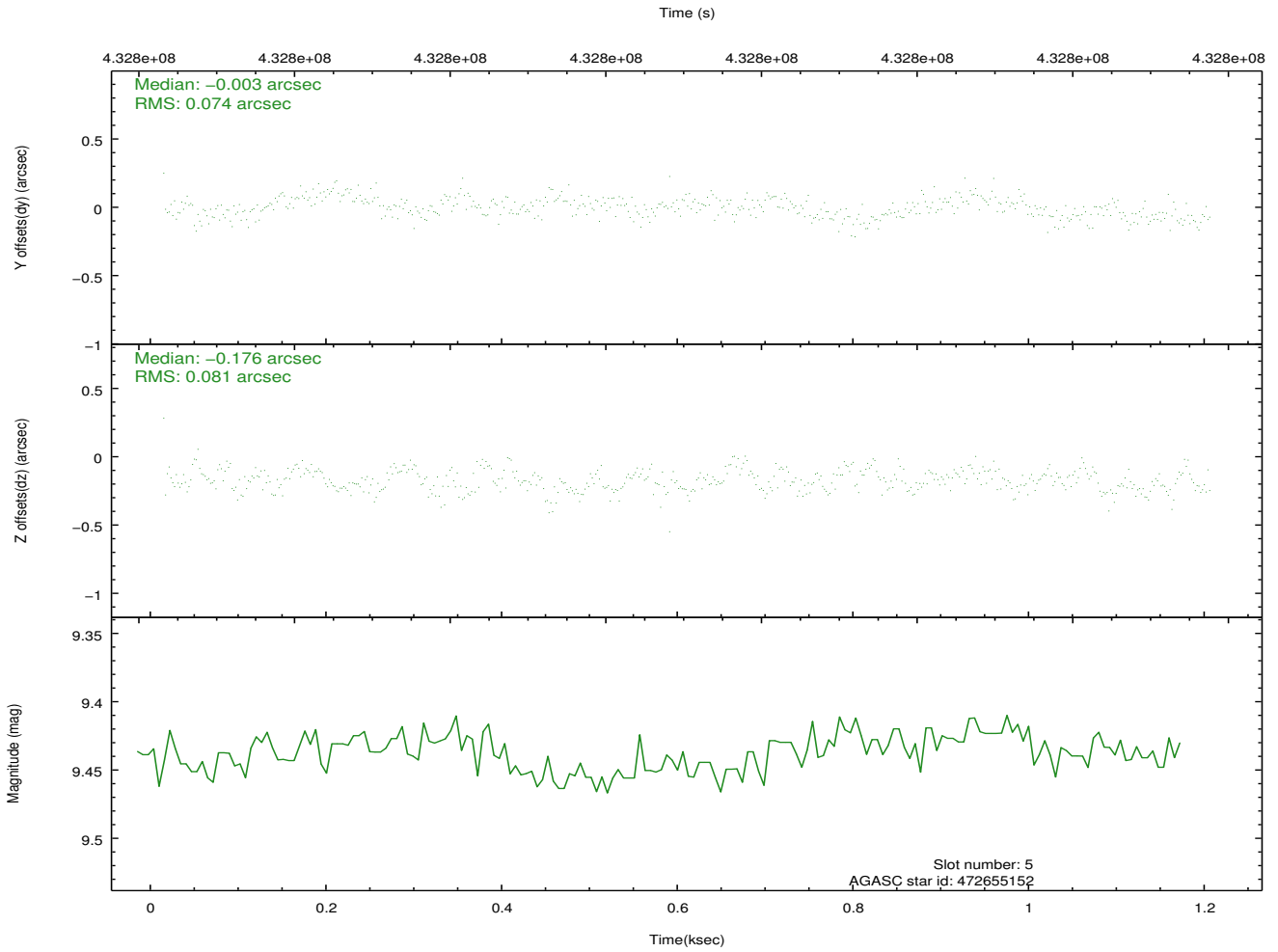
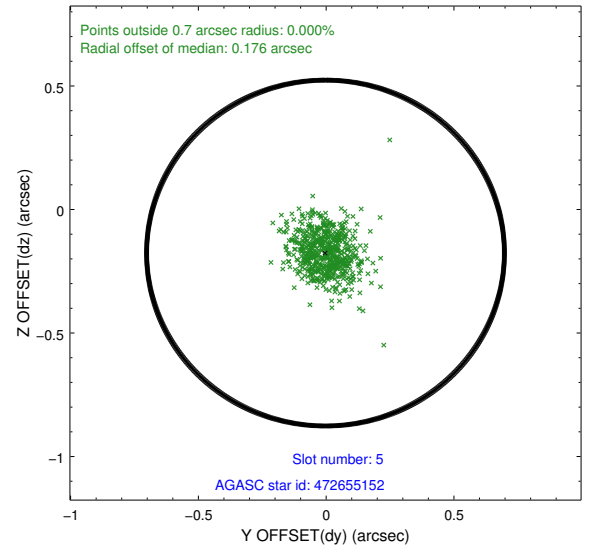
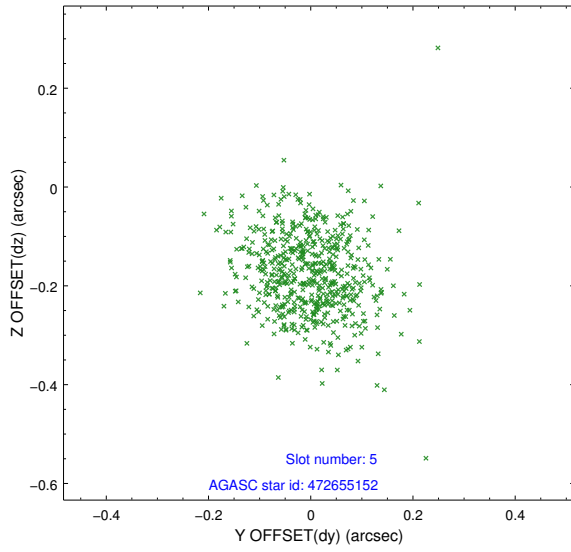
### 2.4.1 Slot 3



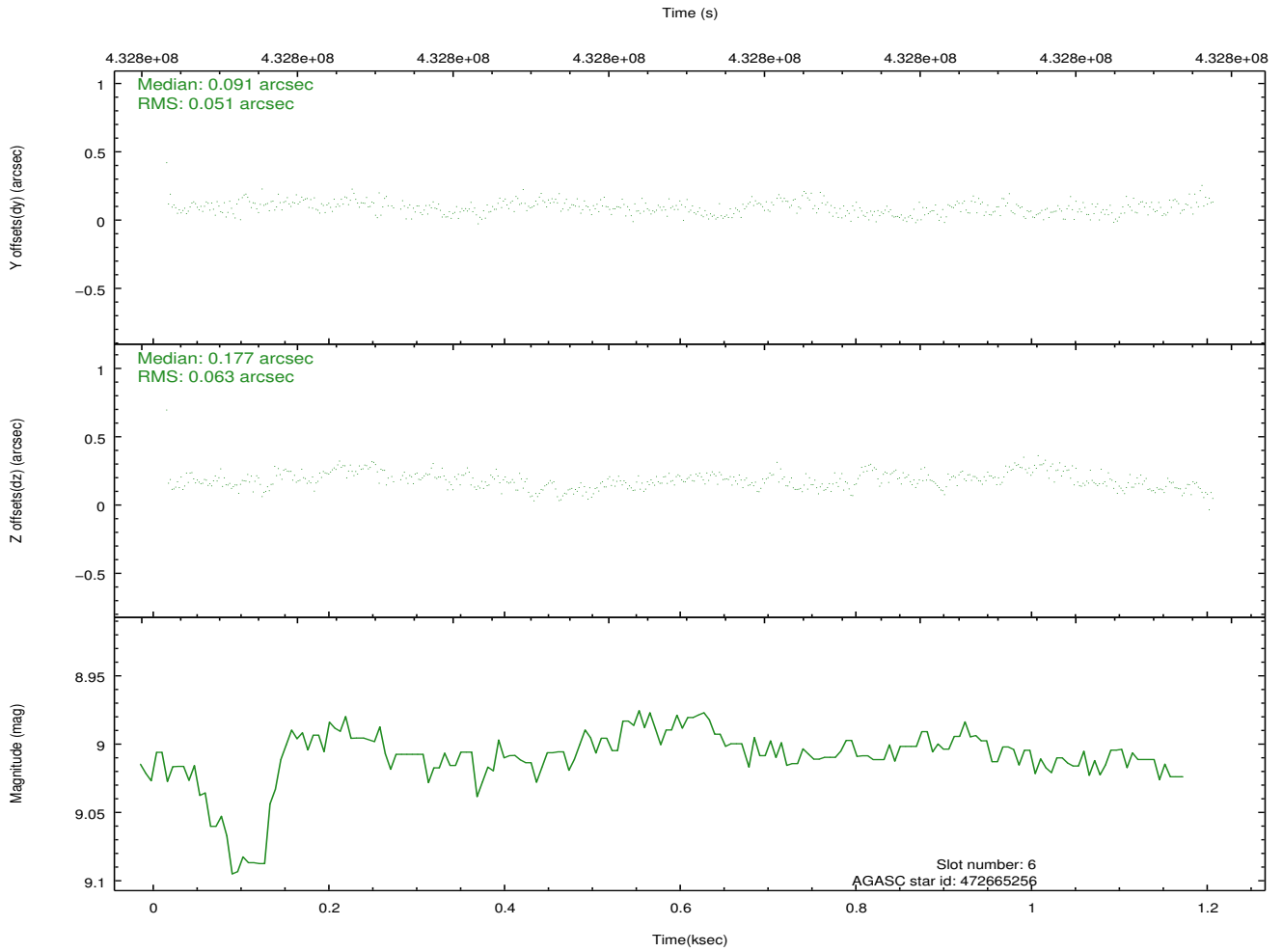
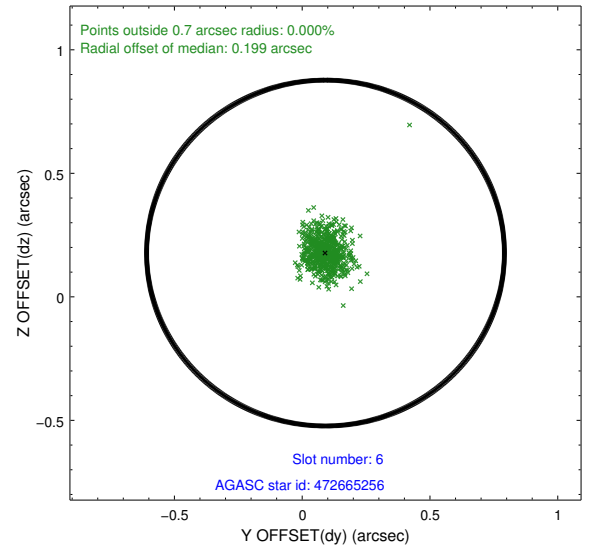
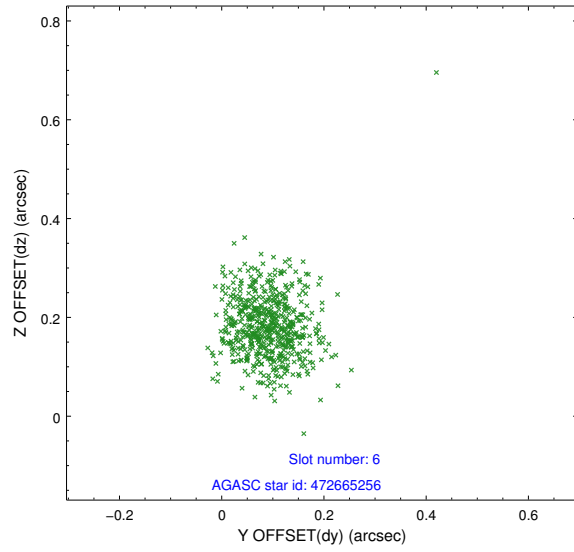
## 2.4.2 Slot 4



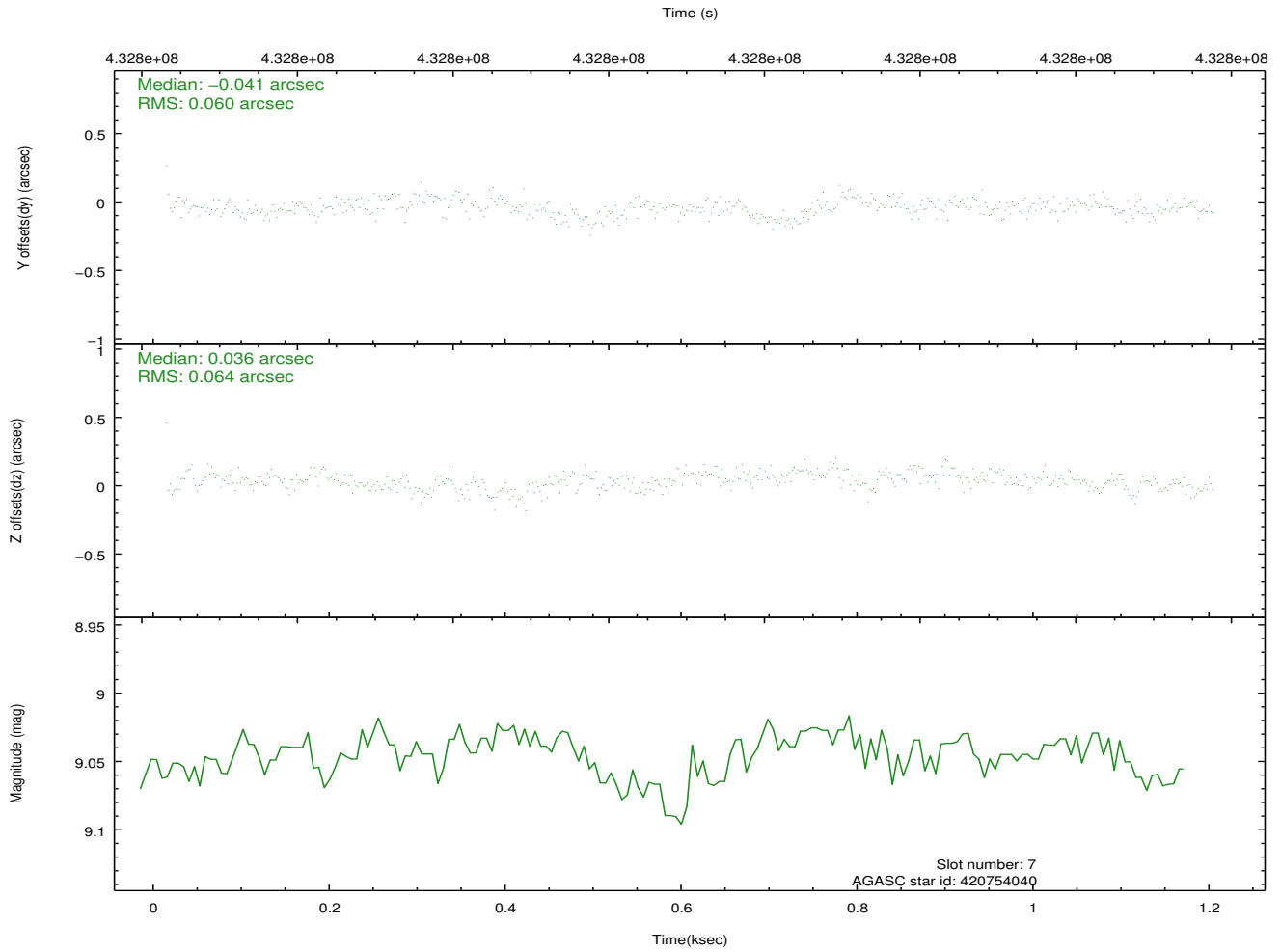
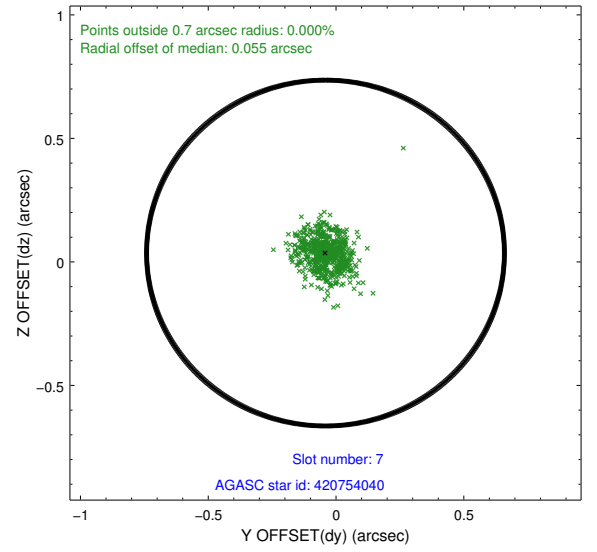
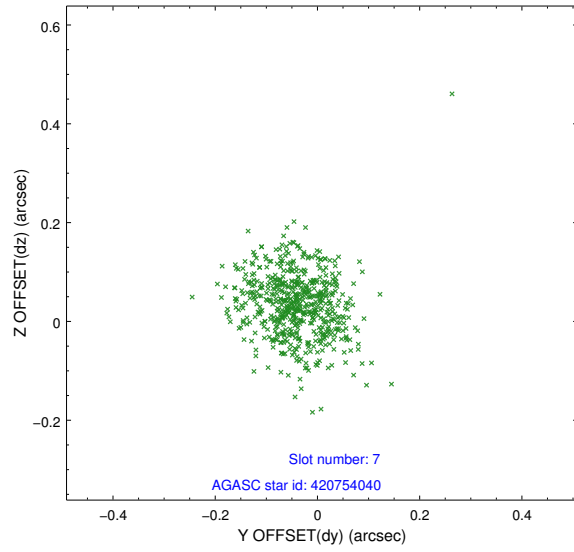
### 2.4.3 Slot 5



## 2.4.4 Slot 6

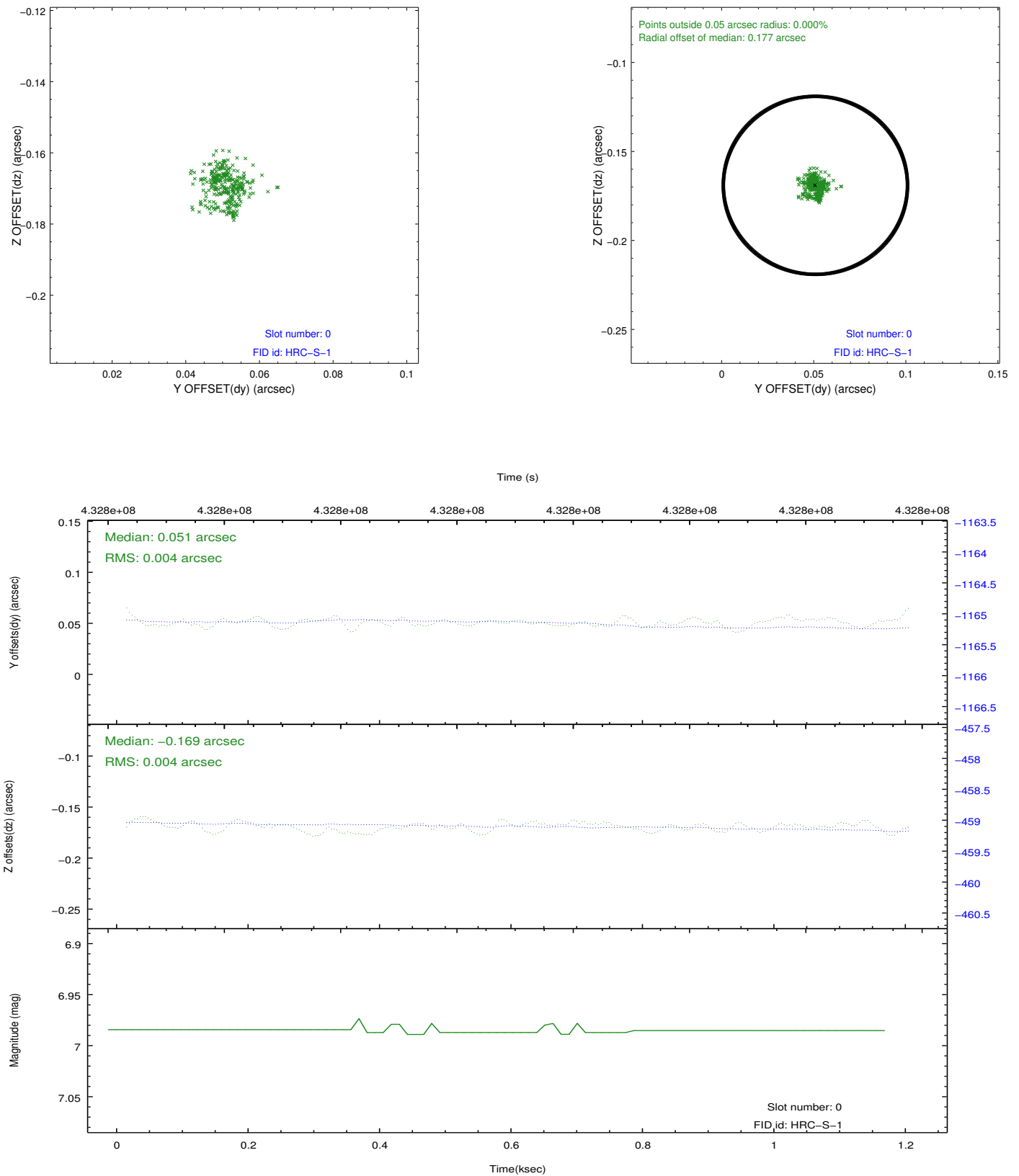


## 2.4.5 Slot 7

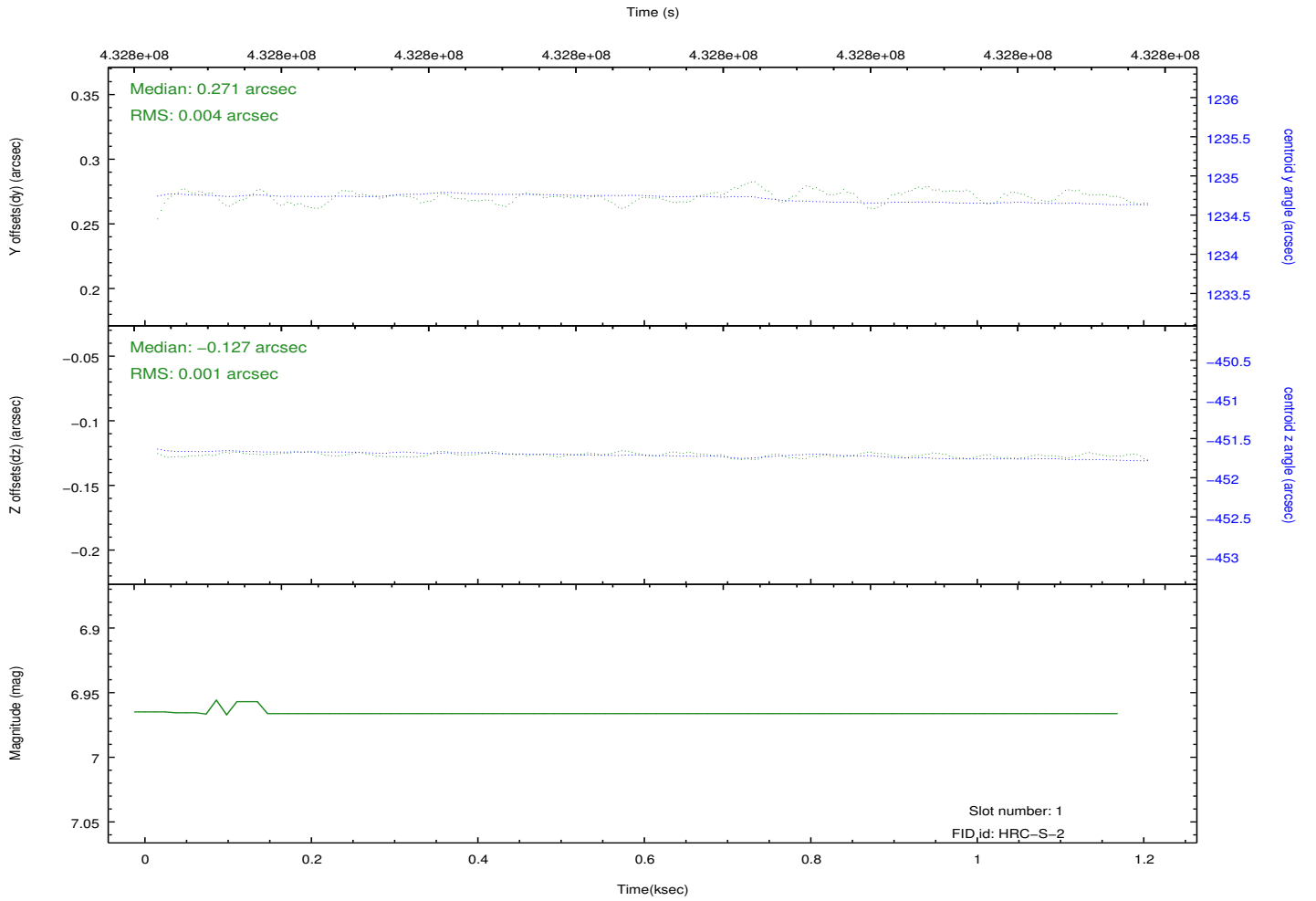
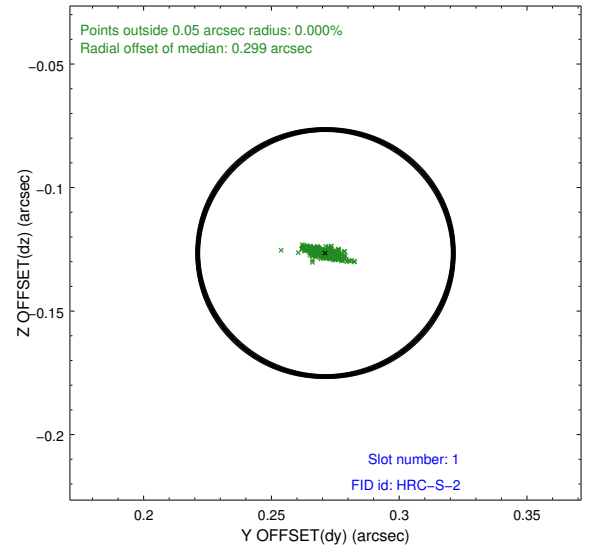
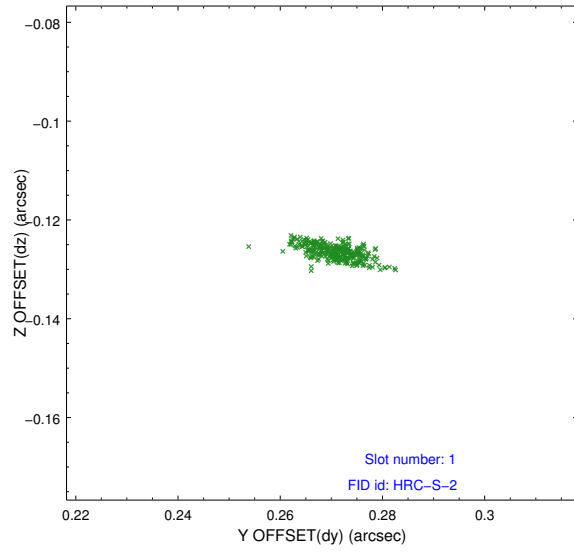


## 2.5 FID Slots

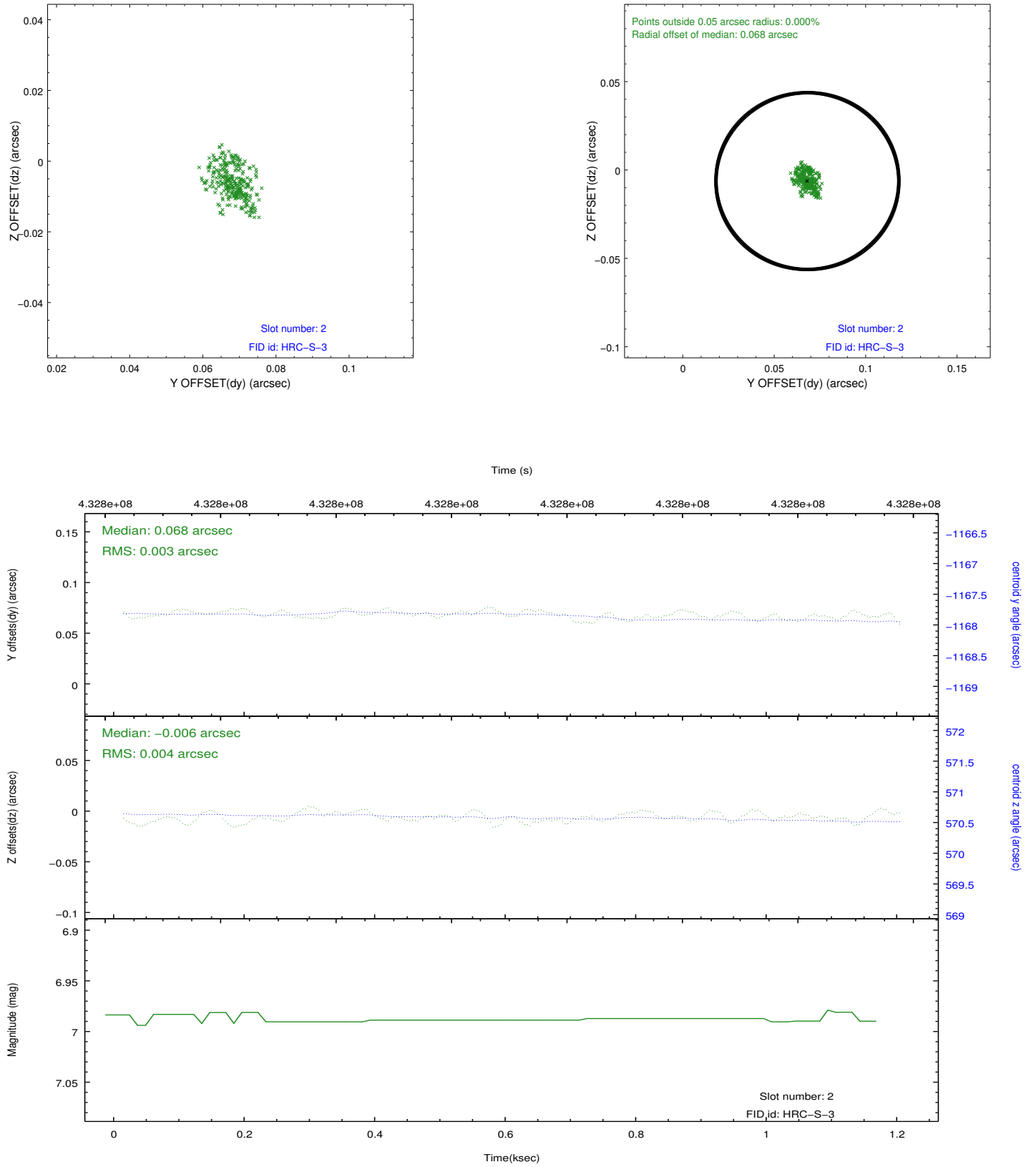
### 2.5.1 Slot 0



## 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)	2012.08.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1615813108683

### A.2 Comments