

# V&V Reference Report

## L2 ASCDS Version : 10.4.1

Observation 17368 - L2 Version 1  
Chandra X-Ray Center

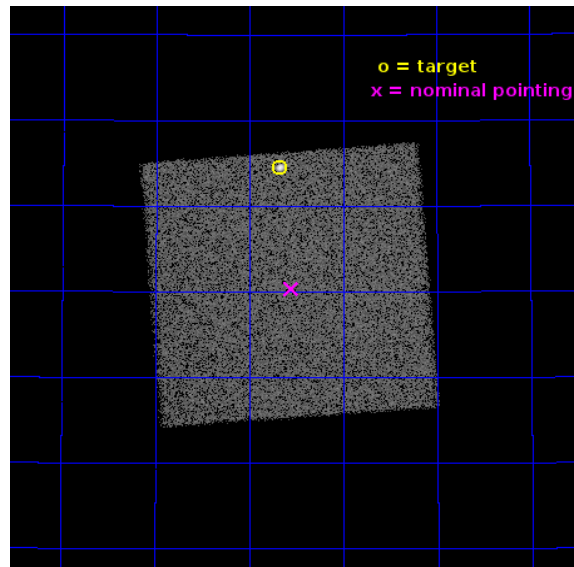
L2 Processing Date : Sep 27 2015

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# 1 Front

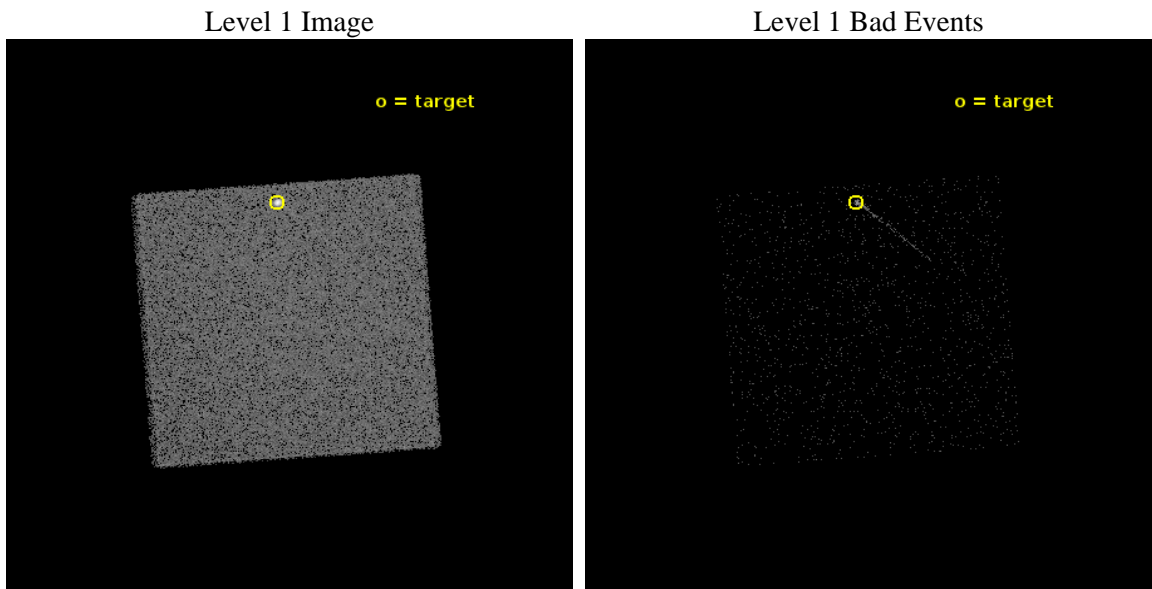
seq_num	291241	Sequence number
obs_id	17368	Observation id
title	AO-16 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.13850358089	Nominal RA [deg]
dec_nom	45.506051618861	Nominal Dec [deg]
roll_nom	220.66829545338	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1186.181317091	[s]
livetime	1175.5644513285	Ontime multiplied by DTCOR
l2events	86890	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	1186.181317091	[s]
caldbver	4.6.8	&#160	l1events	146664	Number of level 1 events
date	2015-09-27T05:24:59	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

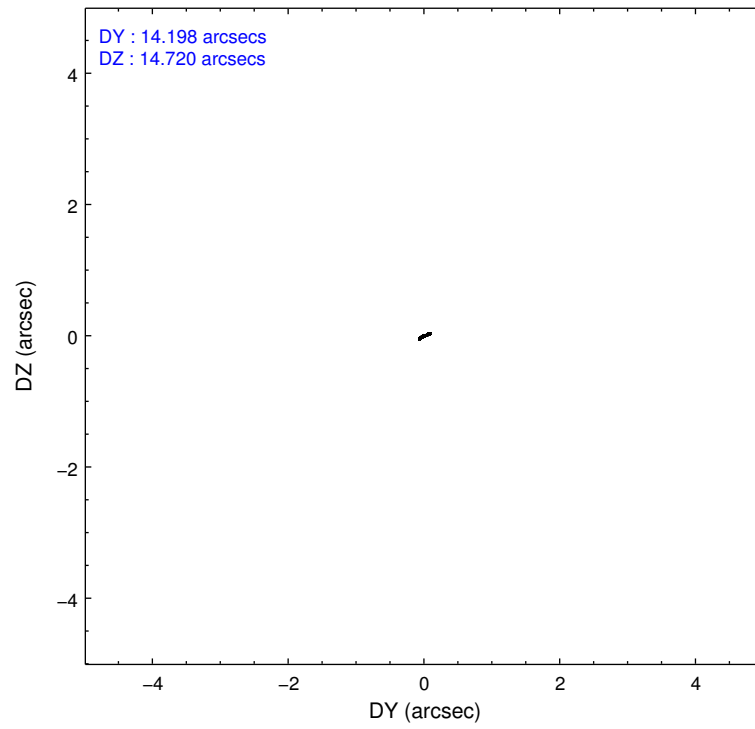
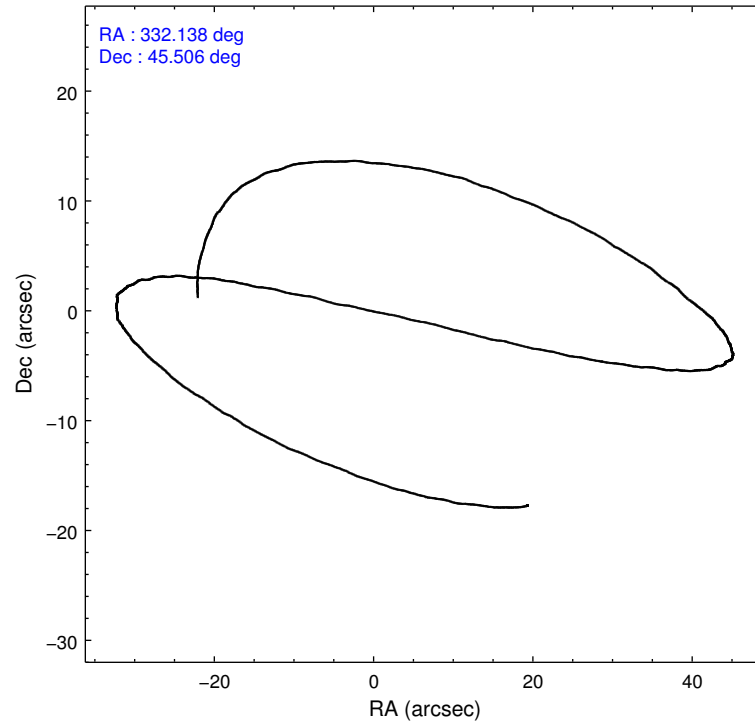
#### Level 1 Events

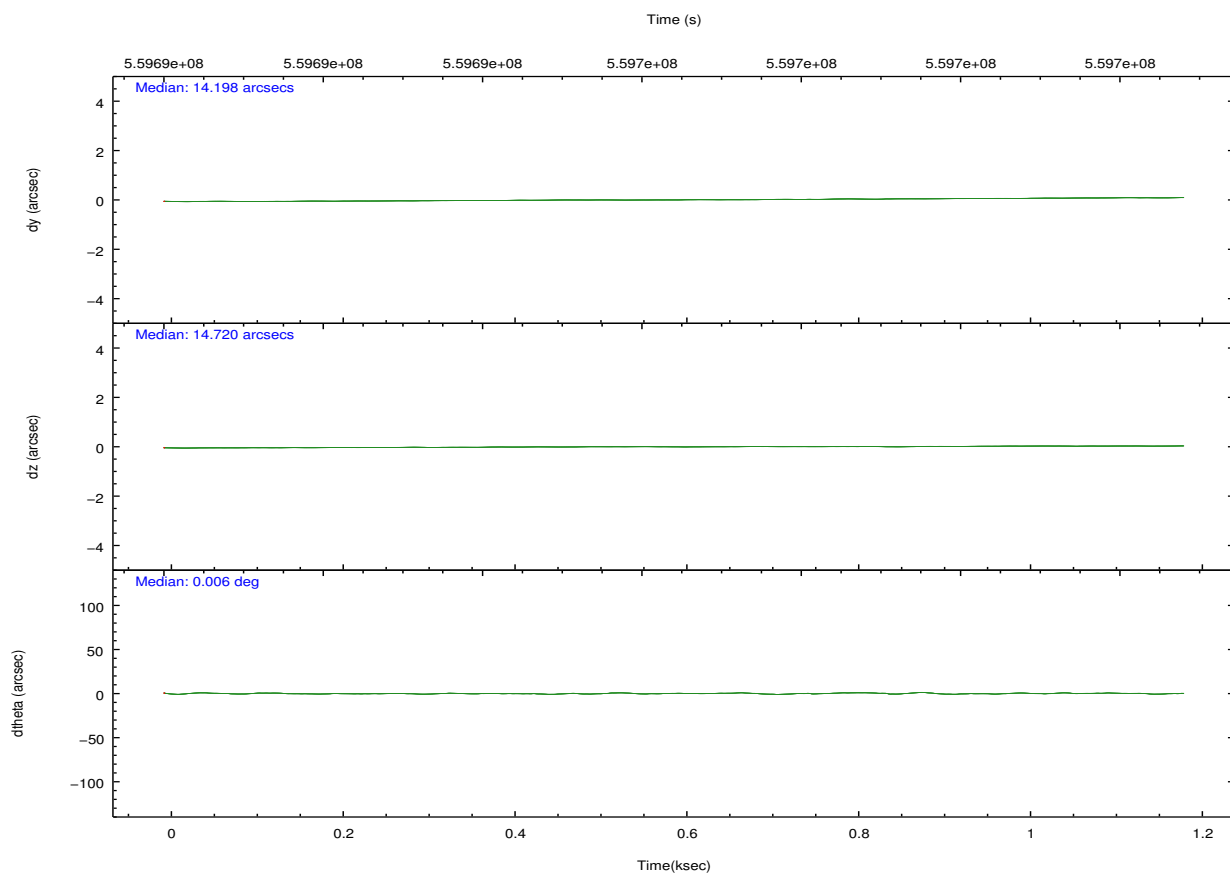
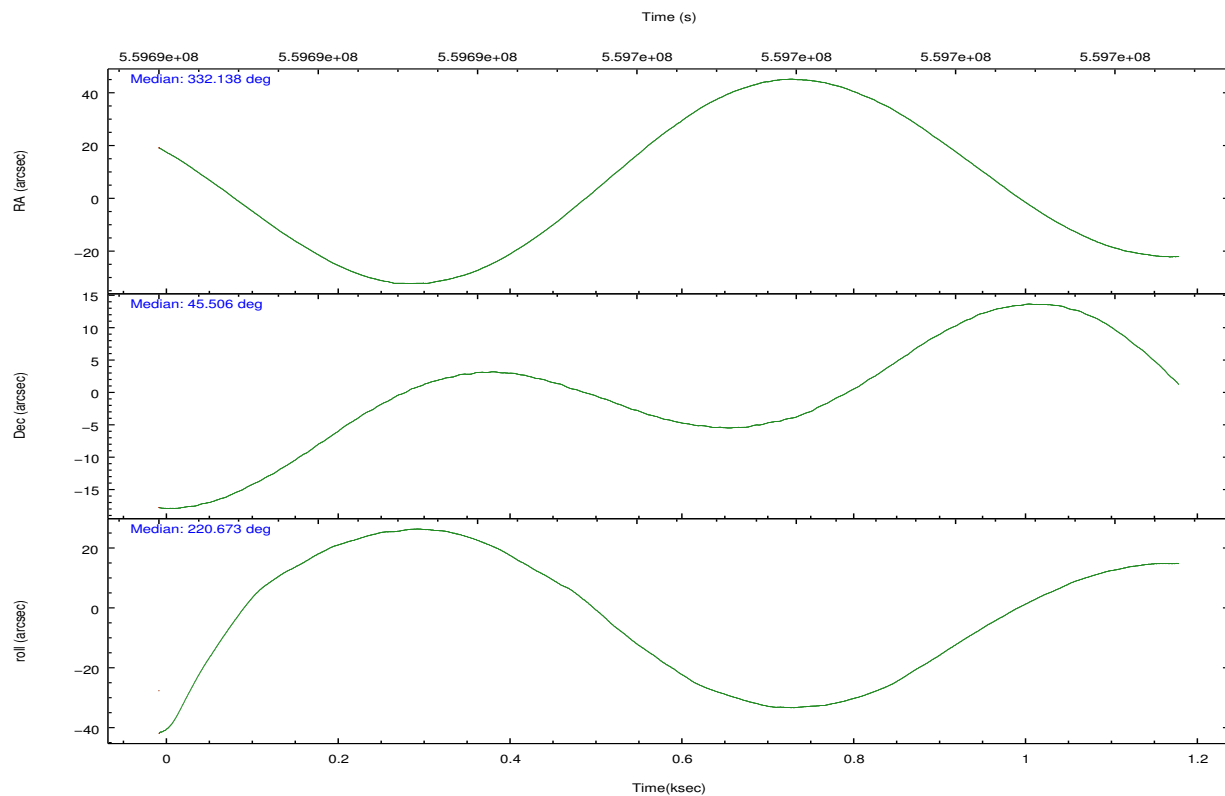
	<b>segment 0</b>
level 1 events	146664
rejected events	31231
rejected %	21%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.151331	332.1385035808901			
[deg] Pointing Dec	45.531733	45.50605161886081			
[deg] Pointing Roll	220.755000	220.668295453378			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	559694642.184000	559694266.31988			
Observation start date	2015-09-26T22:42:54	2015-09-26T22:37:46			
[s] Observation end time (MET)	559695642.184000	559695776.14496			
Observation end date	2015-09-26T22:59:34	2015-09-26T23:02:56			

## 2.3 Aspect





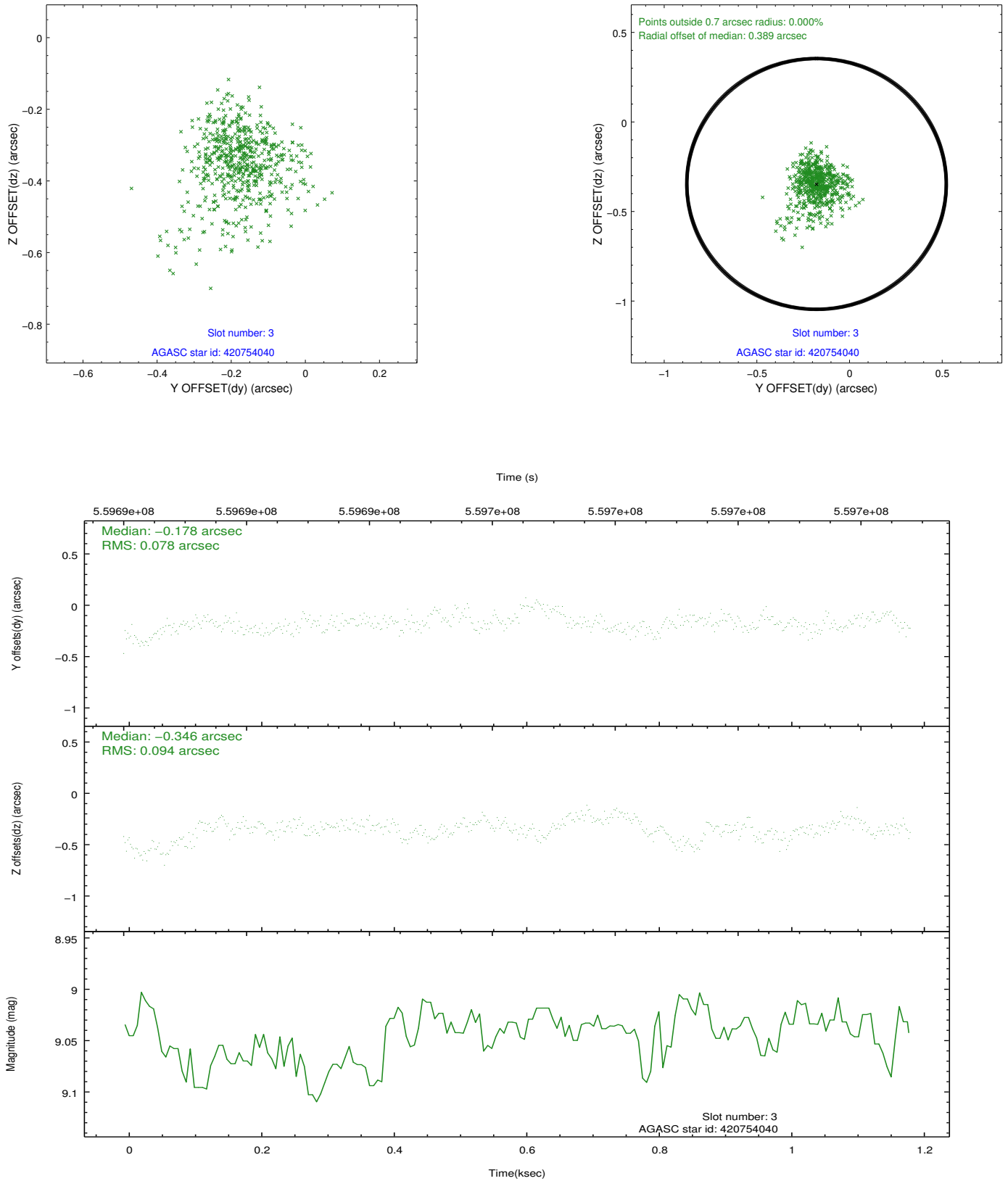
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	6.99	290	-0.195	-0.027	0.009	0.014	0.000000	0.000000	-770.11	-1302.85
1	FID		HRC-I-2	7.03	290	0.352	-0.119	0.007	0.010	0.000000	0.000000	840.41	-1308.93
2	FID		HRC-I-3	7.09	290	-0.038	0.056	0.006	0.013	0.000000	0.000000	-1195.66	997.26
3	GUIDE	used	420754040	9.04	580	-0.178	-0.346	0.123	0.229	331.917939	44.882543	1973.92	1383.66
4	GUIDE	used	472523760	8.23	580	0.203	-0.022	0.091	0.154	331.645363	45.403260	1271.42	-483.01
5	GUIDE	used	472525528	6.64	580	-0.180	0.290	0.088	0.143	331.551102	45.248694	1815.47	-223.91
6	GUIDE	used	472651904	6.14	580	0.027	-0.034	0.108	0.171	332.170077	45.742257	-527.61	-542.53
7	GUIDE	used	472655152	9.40	577	0.127	0.127	0.170	0.258	332.504239	45.862991	-1451.17	-325.46

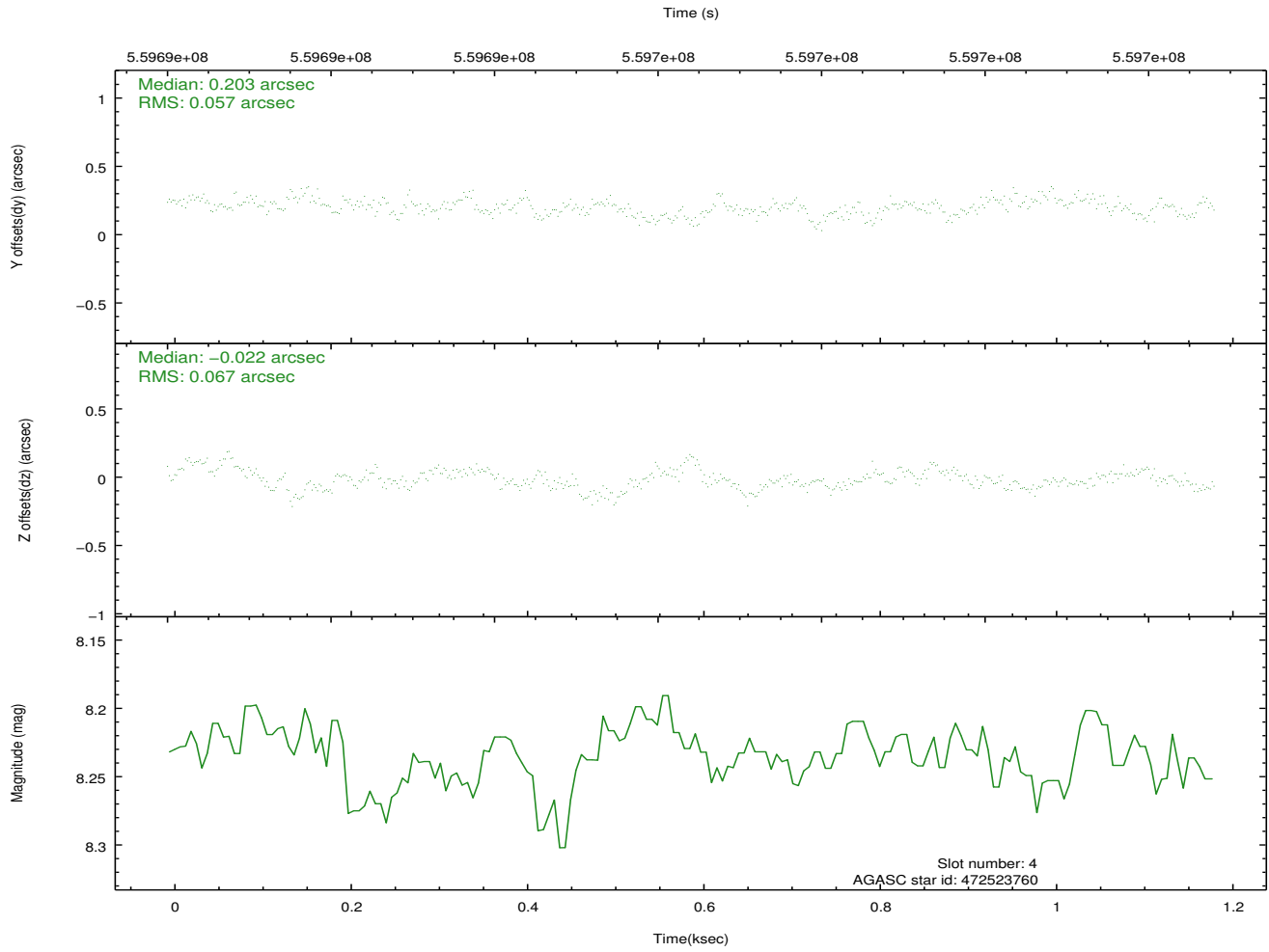
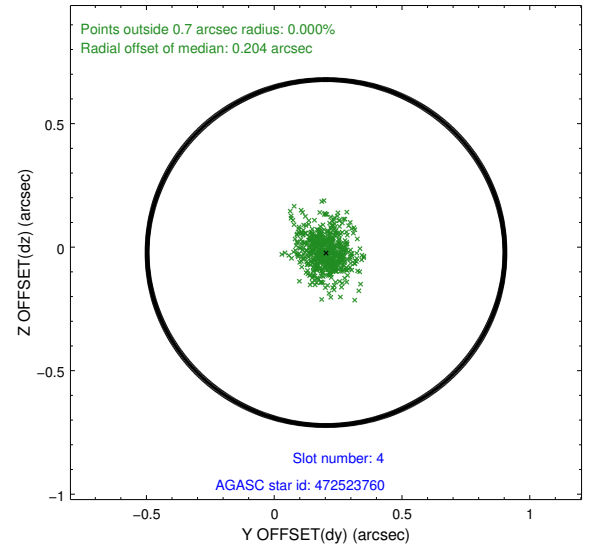
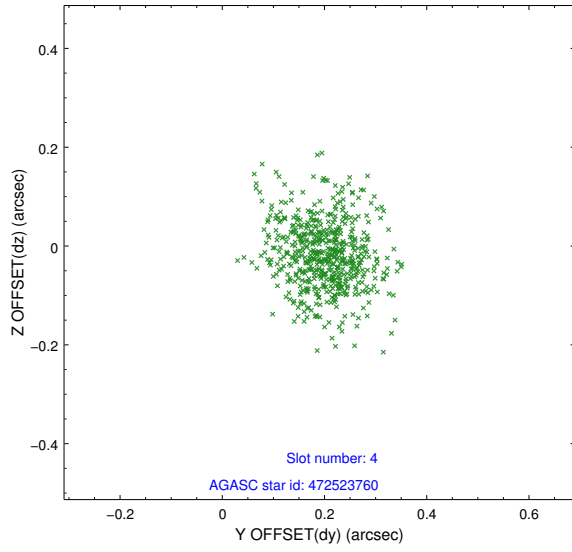


## 2.4 Star Slots

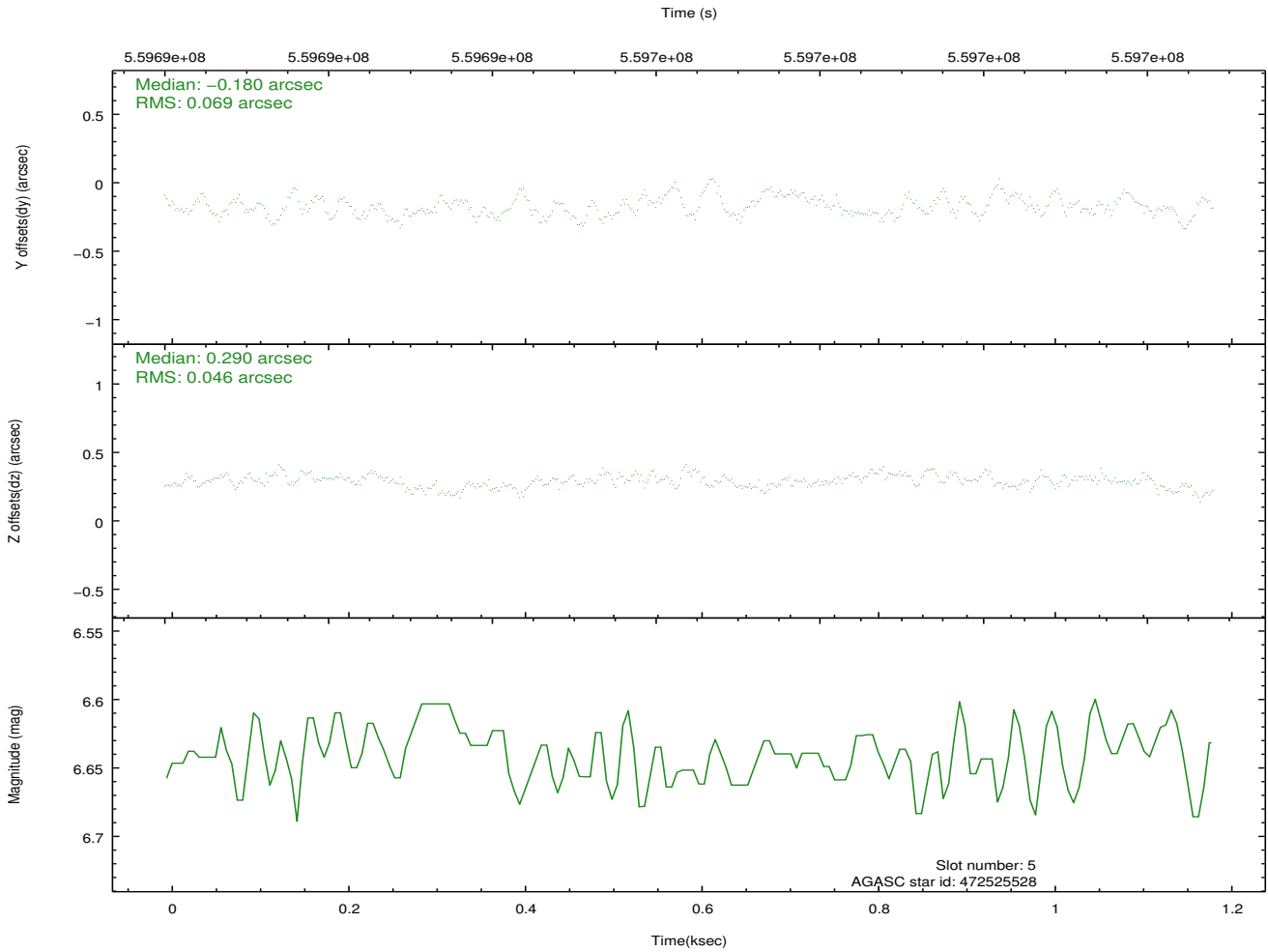
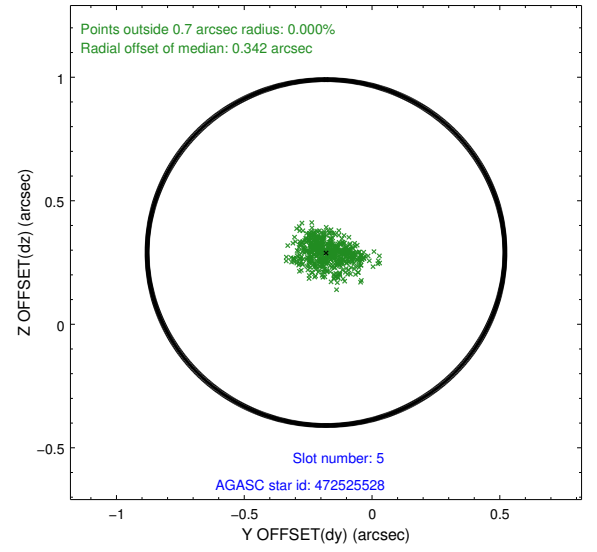
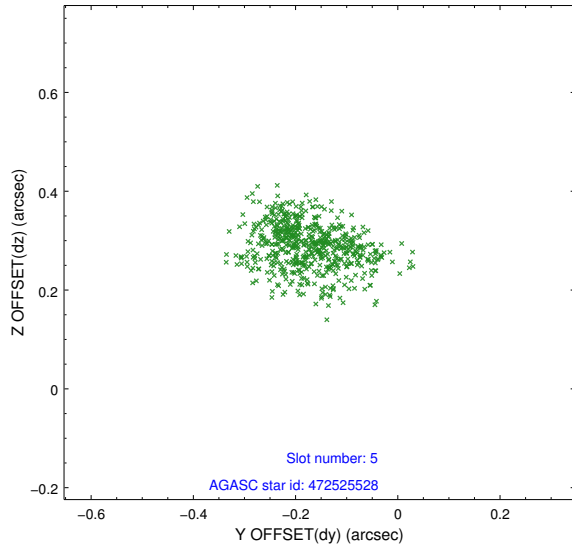
### 2.4.1 Slot 3



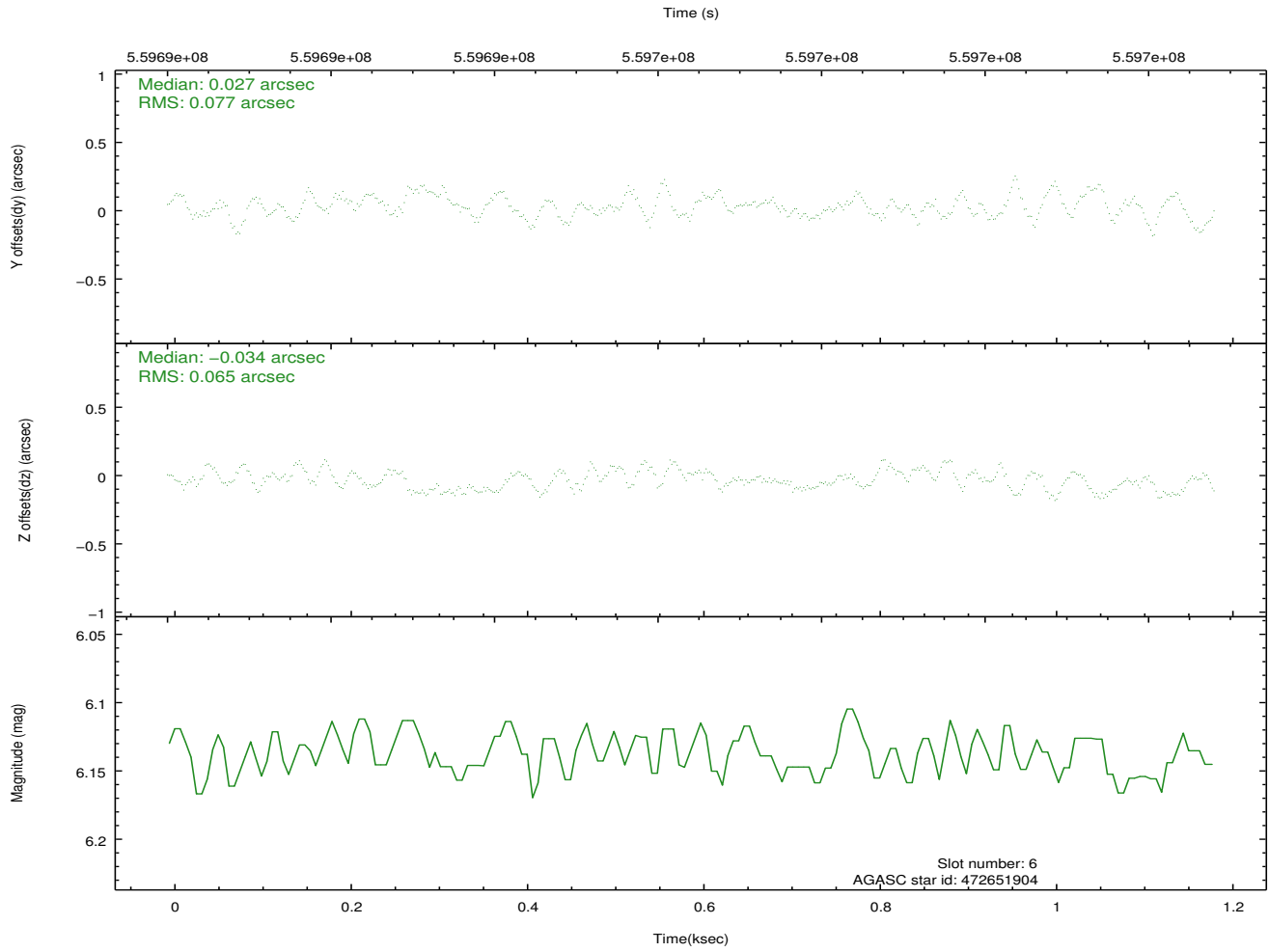
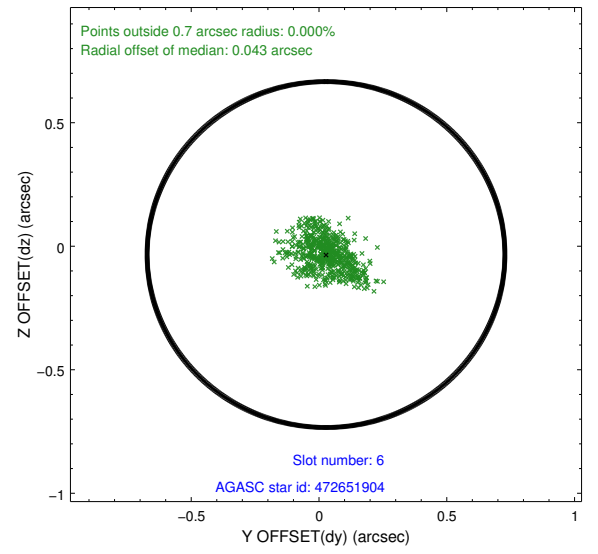
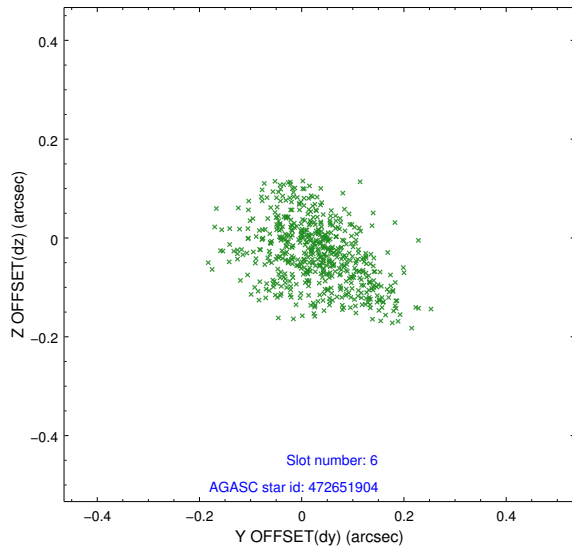
## 2.4.2 Slot 4



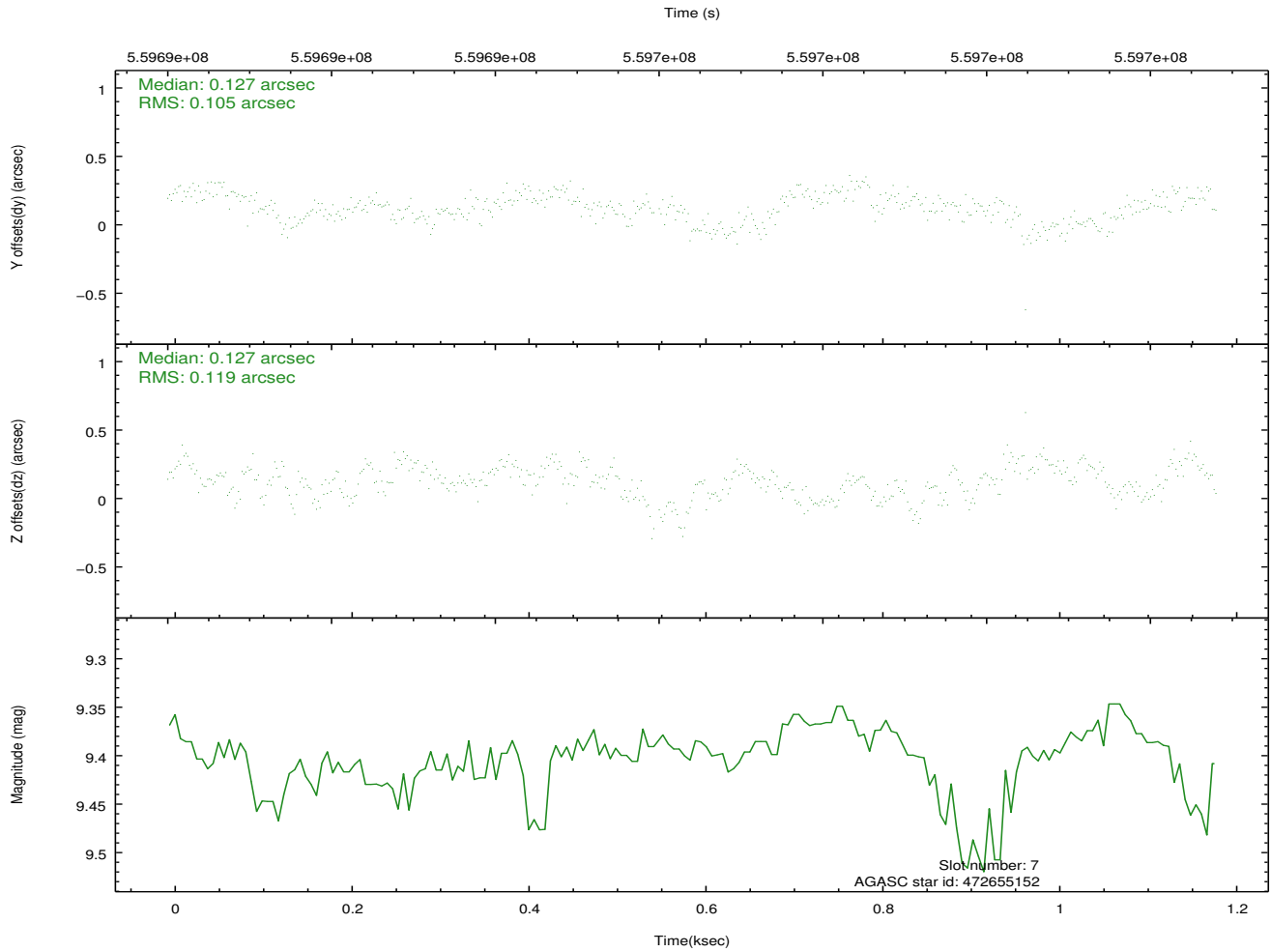
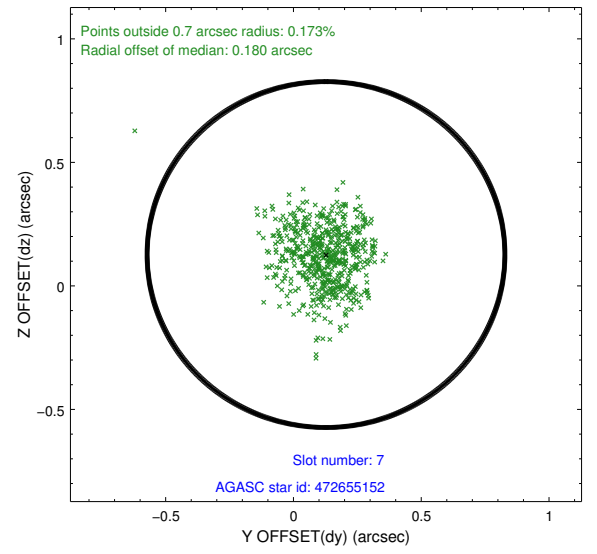
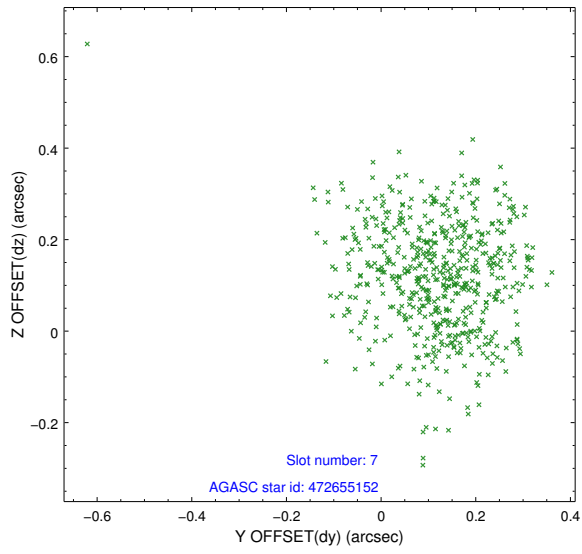
### 2.4.3 Slot 5



## 2.4.4 Slot 6

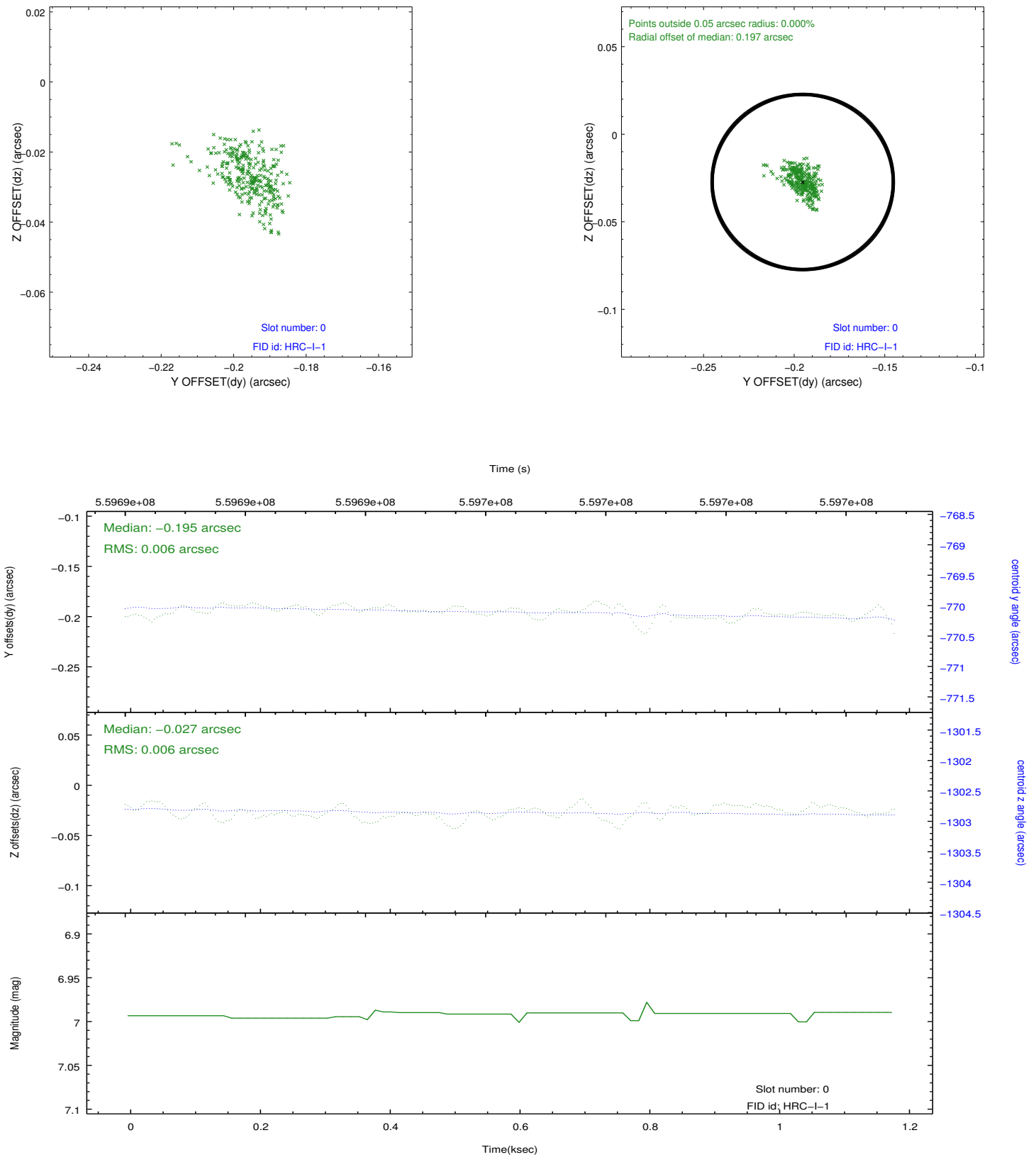


## 2.4.5 Slot 7

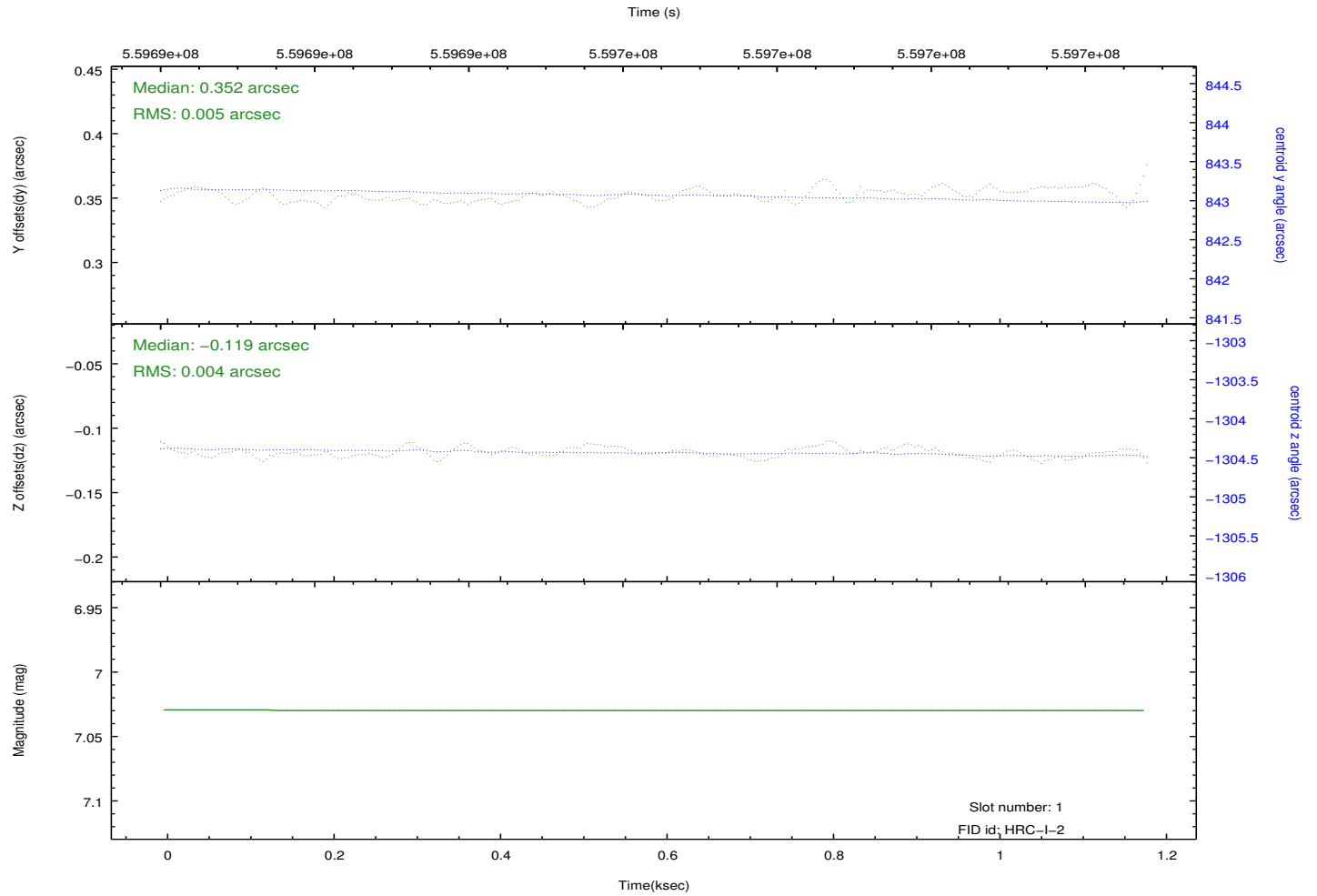
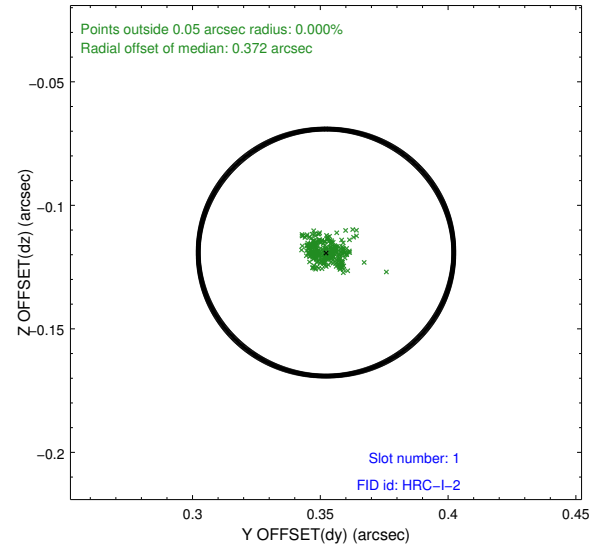
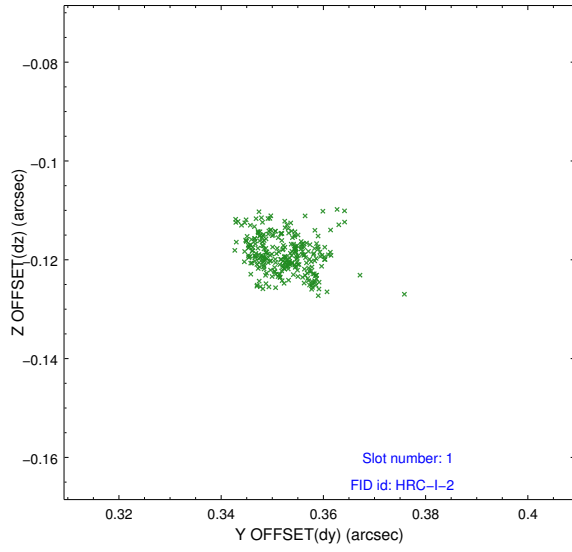


## 2.5 FID Slots

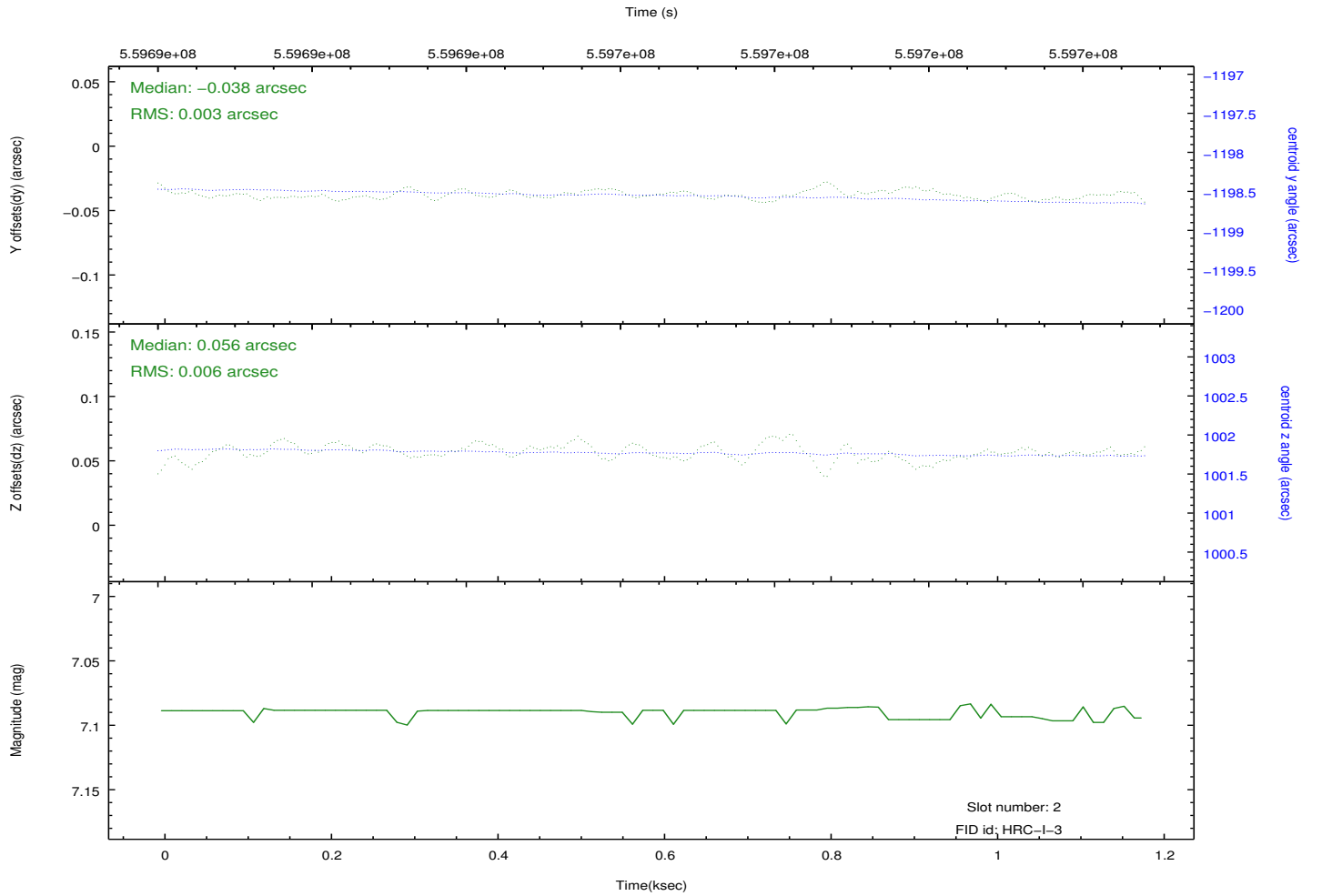
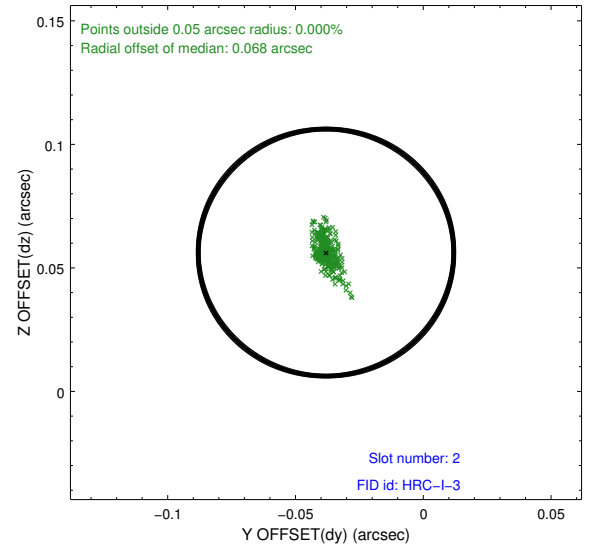
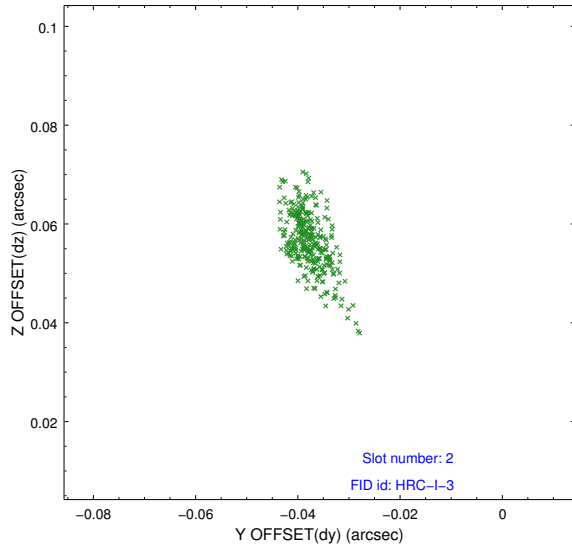
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.09.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.186181317091

### A.2 Comments