

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10591 - L2 Version 3  
Chandra X-Ray Center

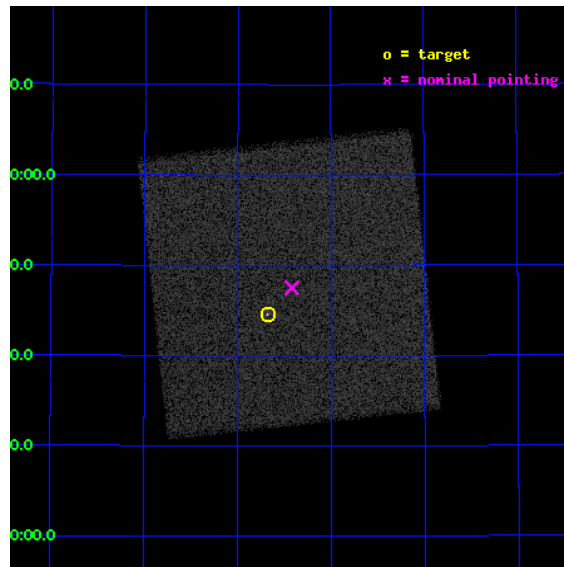
L2 Processing Date : Aug 13 2012

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# 1 Front

seq_num	290827	Sequence number
obs_id	10591	Observation id
title	AO-10 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	332.10483237226	Nominal RA [deg]
dec_nom	45.791837718539	Nominal Dec [deg]
roll_nom	218.73845370072	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1184.1313094497	[s]
livetime	1169.2749609936	Ontime multiplied by DTCOR
l2events	95109	Number of level 2 events

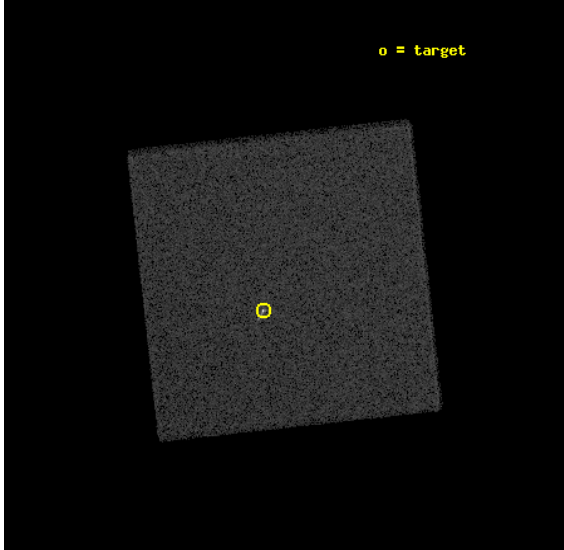


## 2 OBI

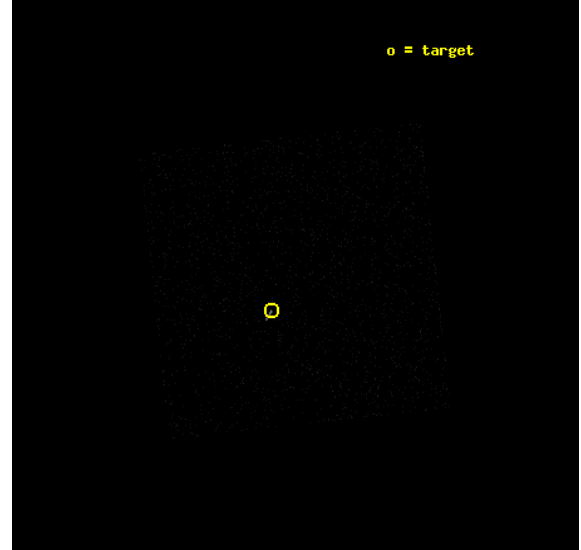
### 2.1 OBI

#### 2.1.1 Images

Level 1 Image



Level 1 Bad Events



### 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	1184.1313094497	[s]
caldbver	4.5.1.1	&#160	l1events	174106	Number of level 1 events
date	2012-08-13T14:41:34	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

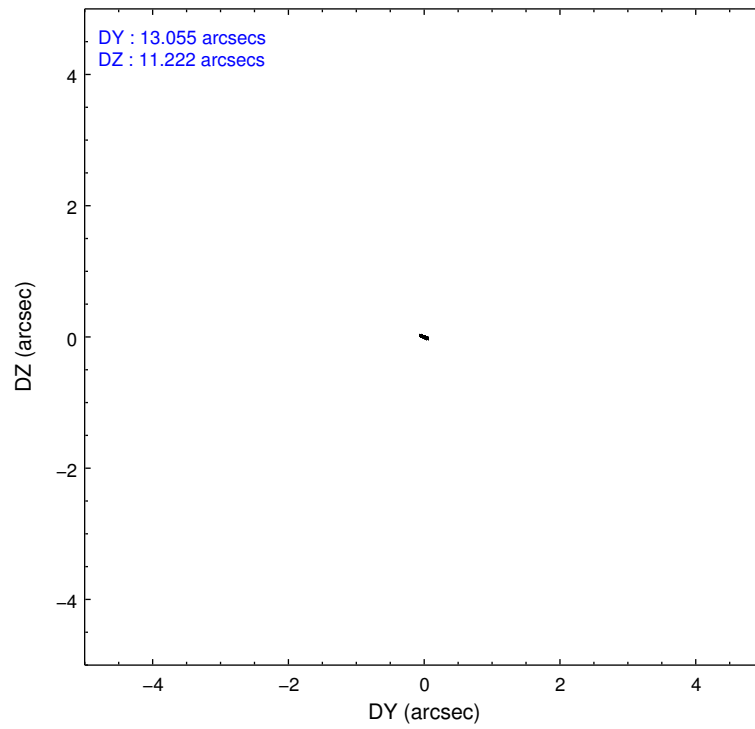
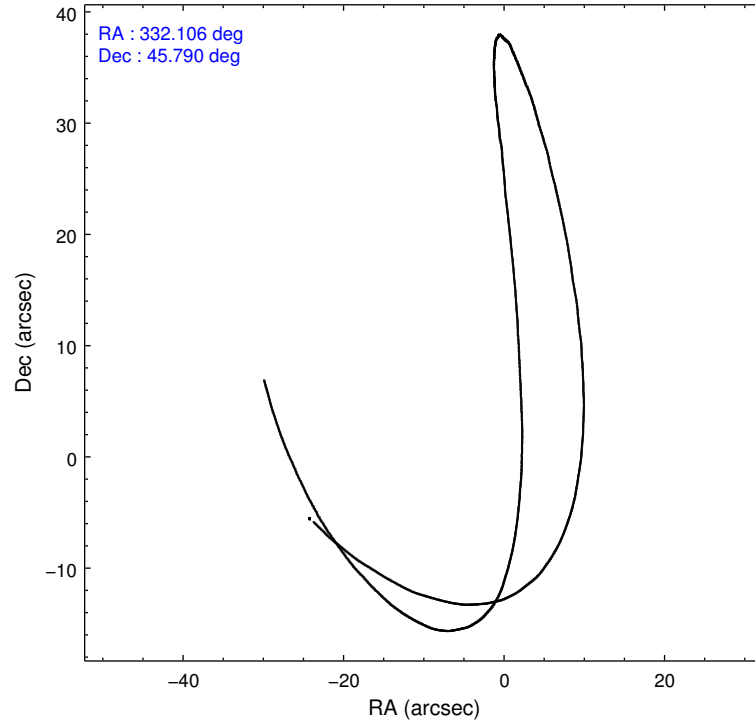
#### Level 1 Events

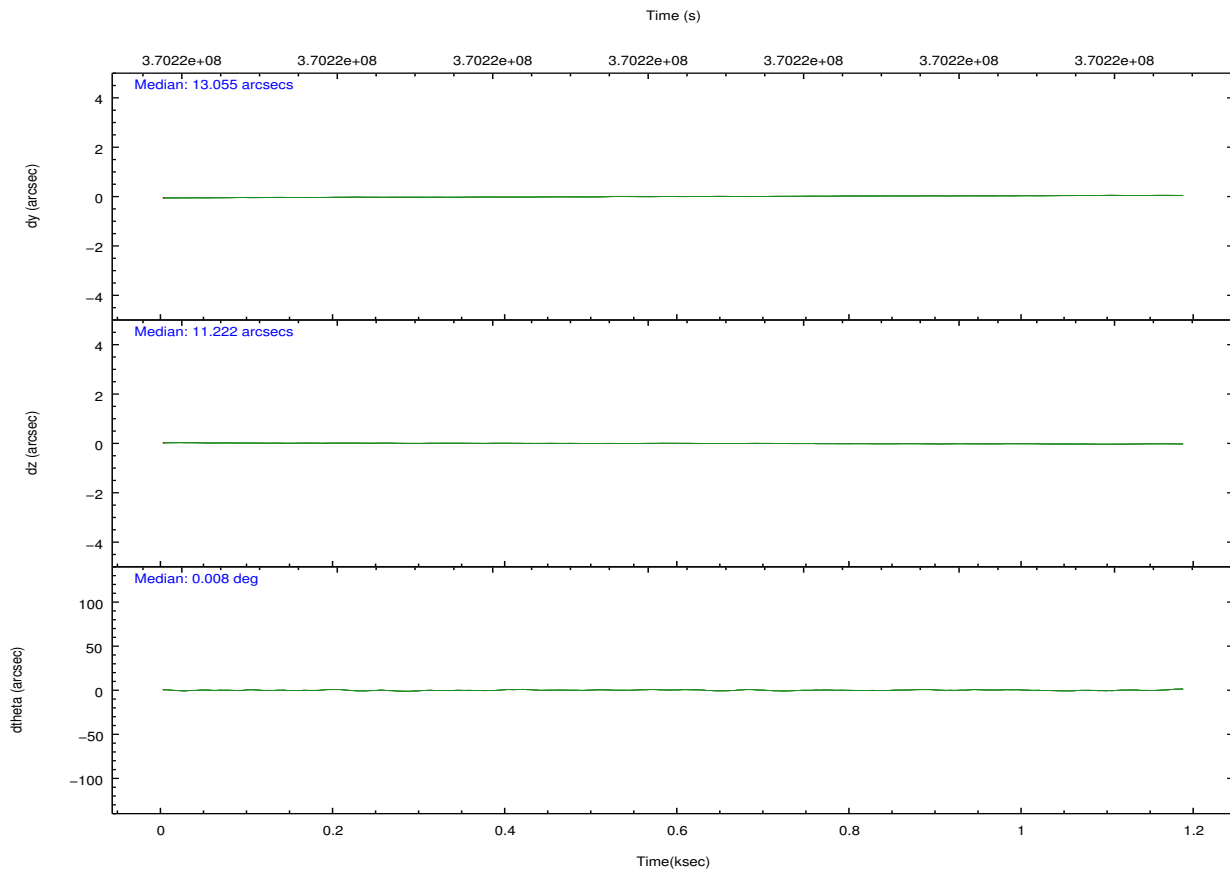
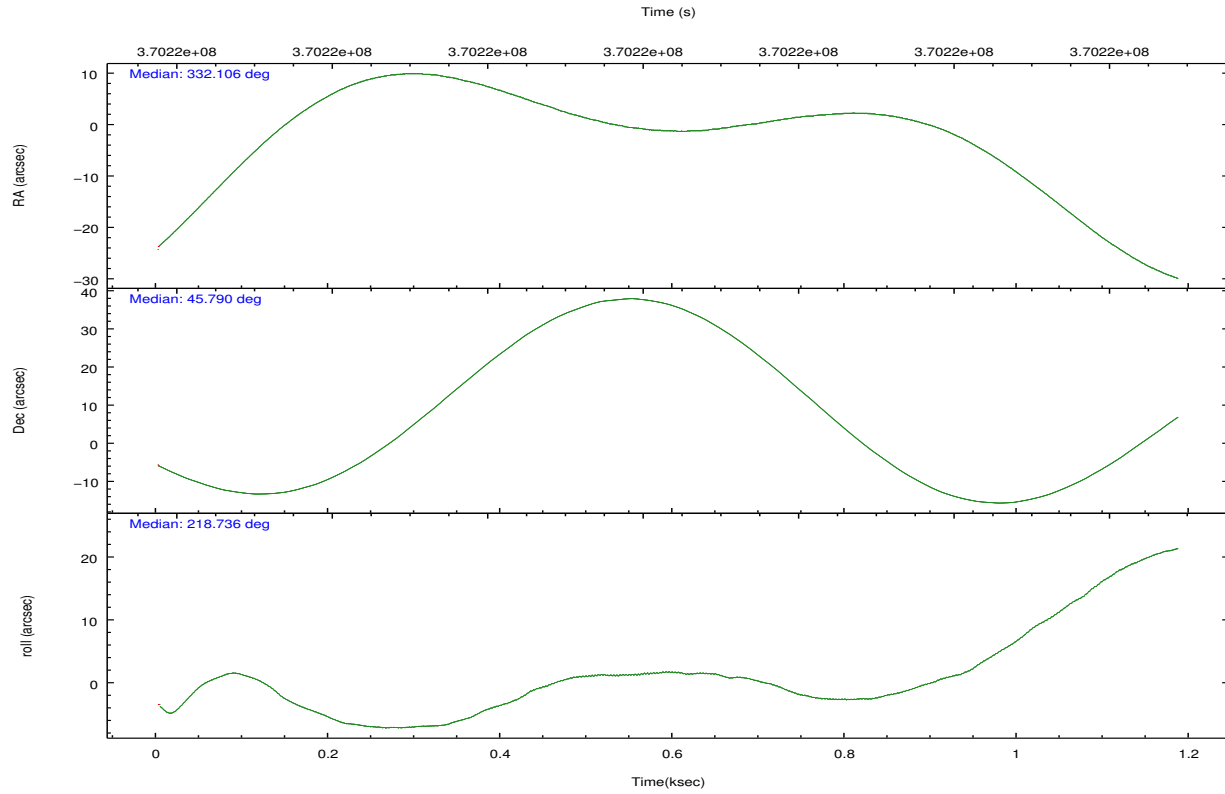
	<b>segment 0</b>
level 1 events	174106
rejected events	37807
rejected %	21%

## 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	332.117618	332.1048323722617			
[deg] Pointing Dec	45.818581	45.79183771853905			
[deg] Pointing Roll	218.824975	218.7384537007247			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9804656746847			
[mm] SIM translation stage offset	0	0.005023216916882234			
[s] Observation start time (MET)	370218429.184000	370218053.18459			
Observation start date	2009-09-24T22:26:03	2009-09-24T22:20:53			
[s] Observation end time (MET)	370219429.184000	370219563.00967			
Observation end date	2009-09-24T22:42:43	2009-09-24T22:46:03			

## 2.3 Aspect



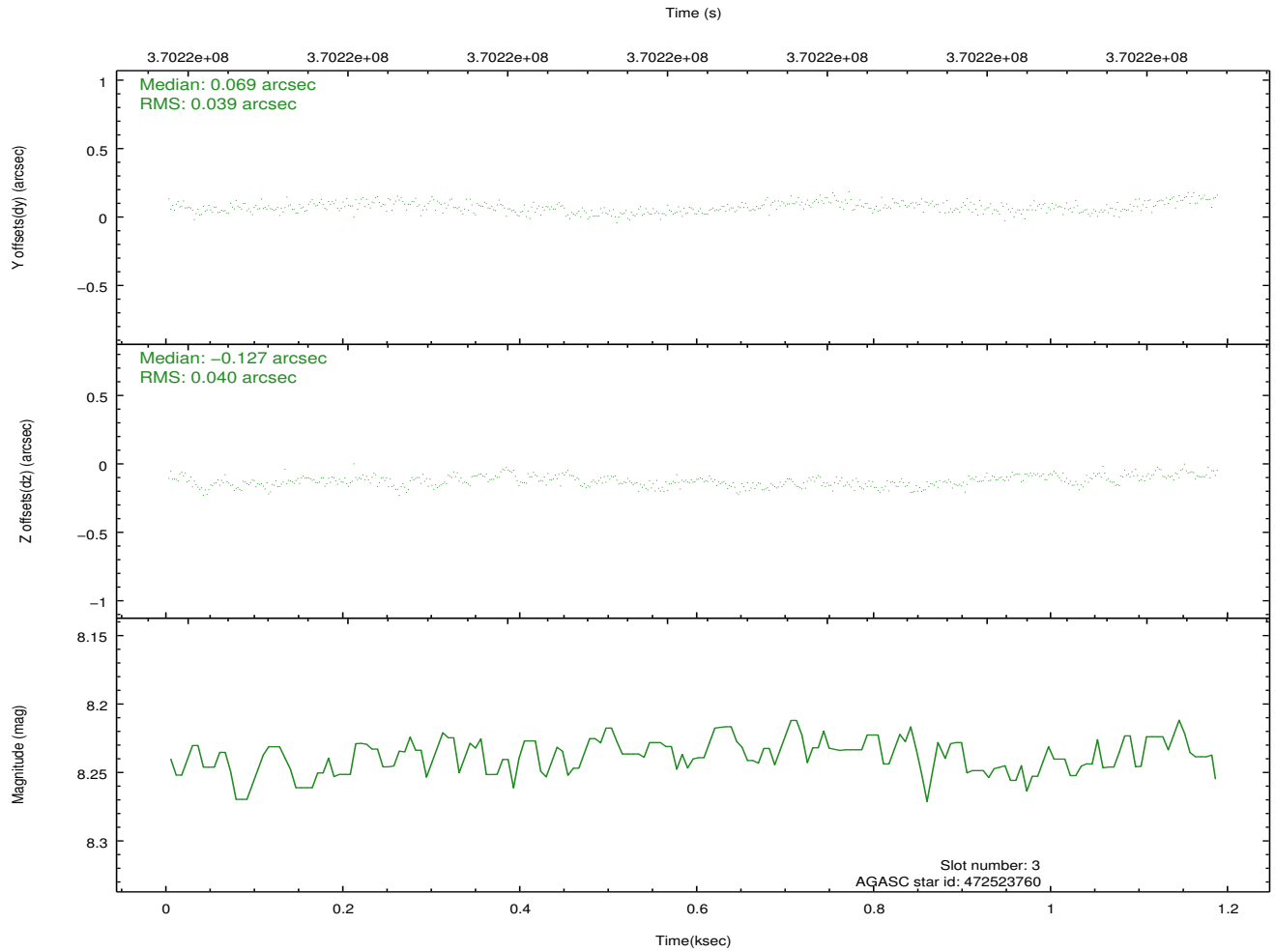
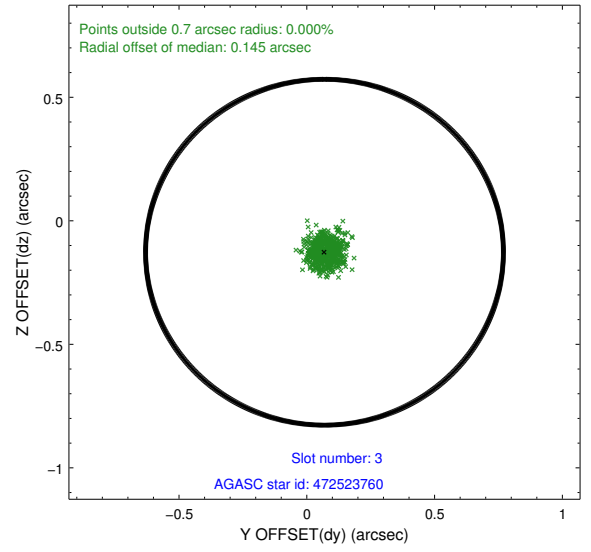
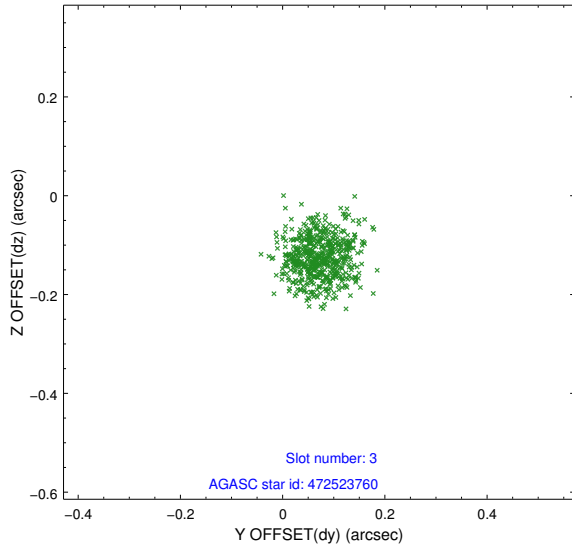


### Slot Statistics

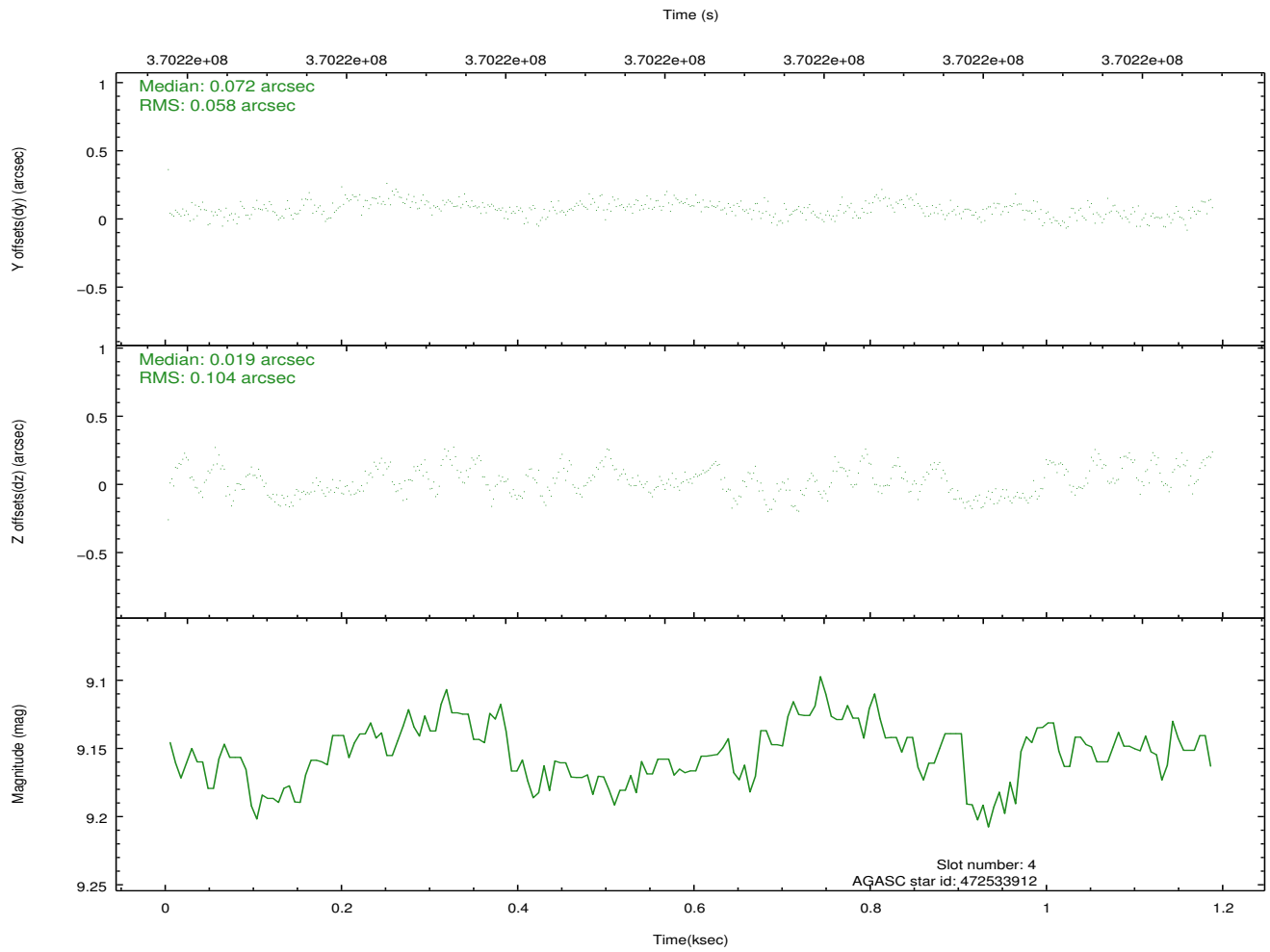
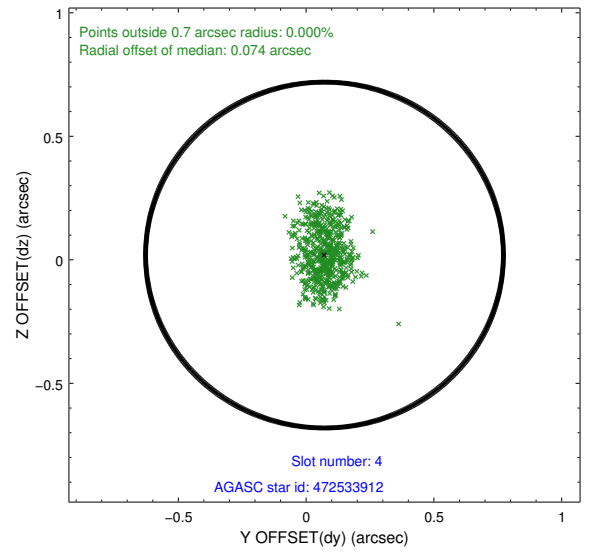
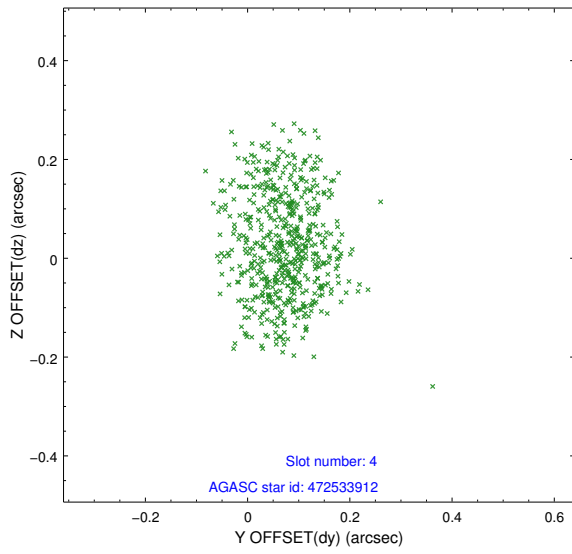
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.98	290	-0.077	-0.000	0.007	0.011	0.000000	0.000000	-768.86	-1299.15
1	FID	HRC-I-2	7.01	290	0.227	-0.116	0.006	0.010	0.000000	0.000000	841.43	-1305.29
2	FID	HRC-I-3	7.07	290	-0.030	0.027	0.005	0.012	0.000000	0.000000	-1194.44	1000.93
3	GUIDE	472523760	8.24	578	0.069	-0.127	0.061	0.096	331.645363	45.403260	1864.01	409.82
4	GUIDE	472533912	9.15	579	0.072	0.019	0.129	0.197	331.791136	46.368695	-608.75	-2055.78
5	GUIDE	472655152	9.43	576	0.103	-0.005	0.107	0.184	332.504239	45.862991	-859.07	473.97
6	GUIDE	472525528	6.64	579	-0.245	0.051	0.080	0.131	331.551102	45.248694	2398.63	691.31
7	GUIDE	472659832	9.45	577	0.005	0.054	0.099	0.156	332.780399	46.098139	-1921.40	245.12

## 2.4 Star Slots

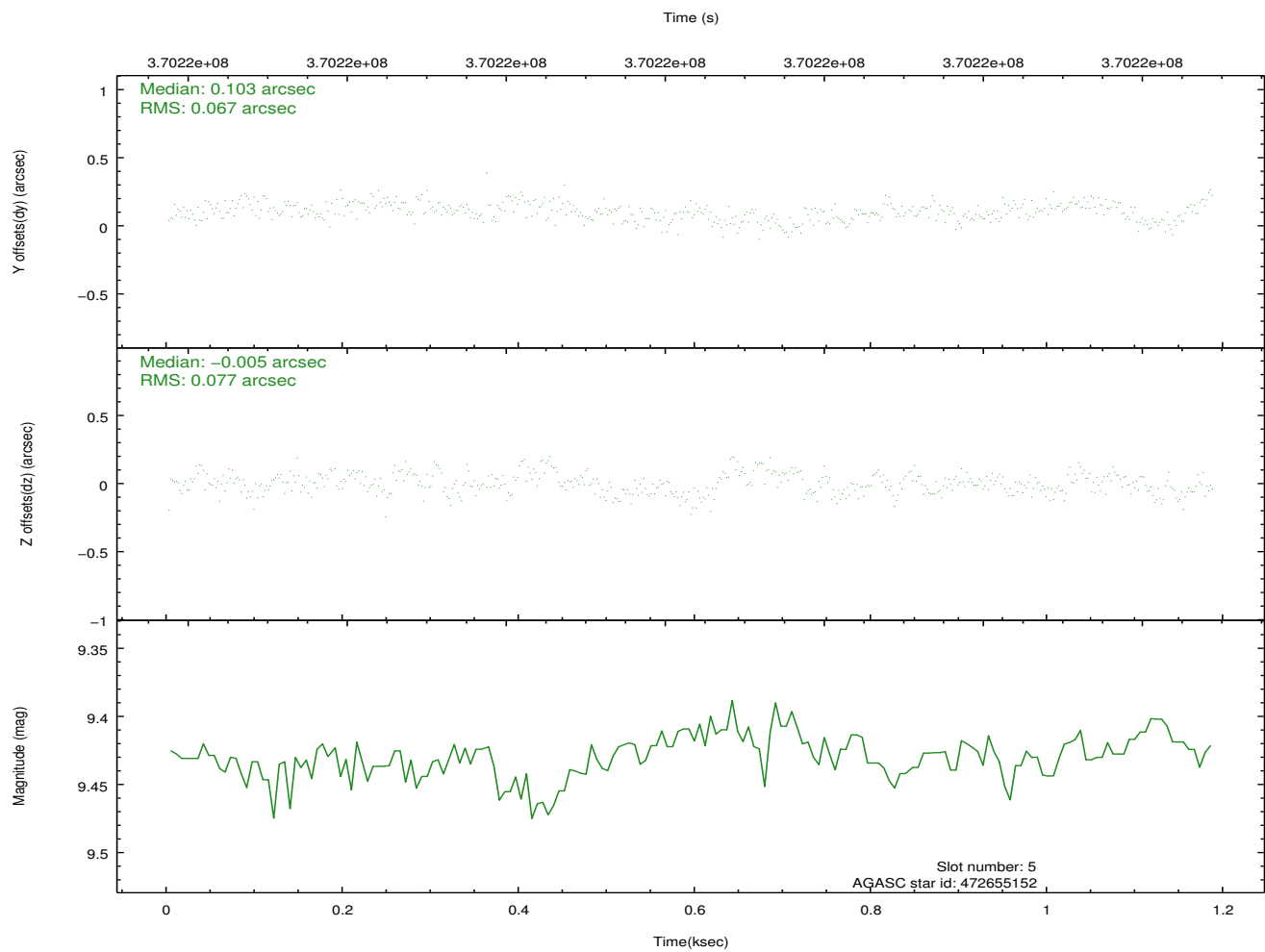
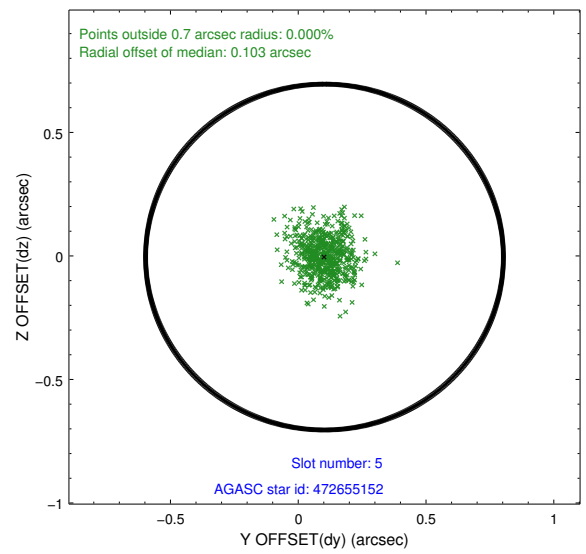
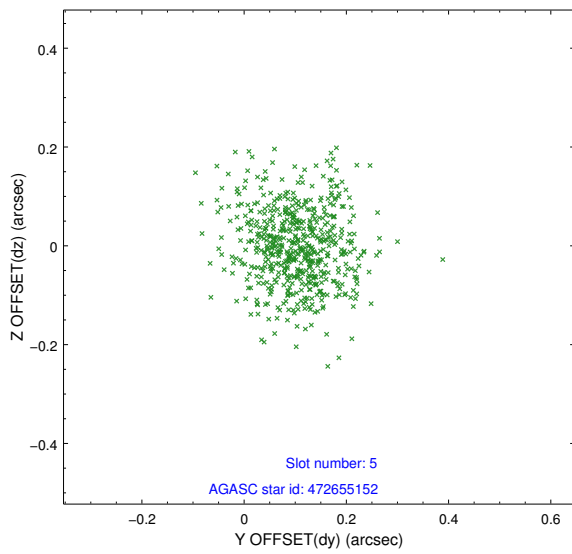
### 2.4.1 Slot 3



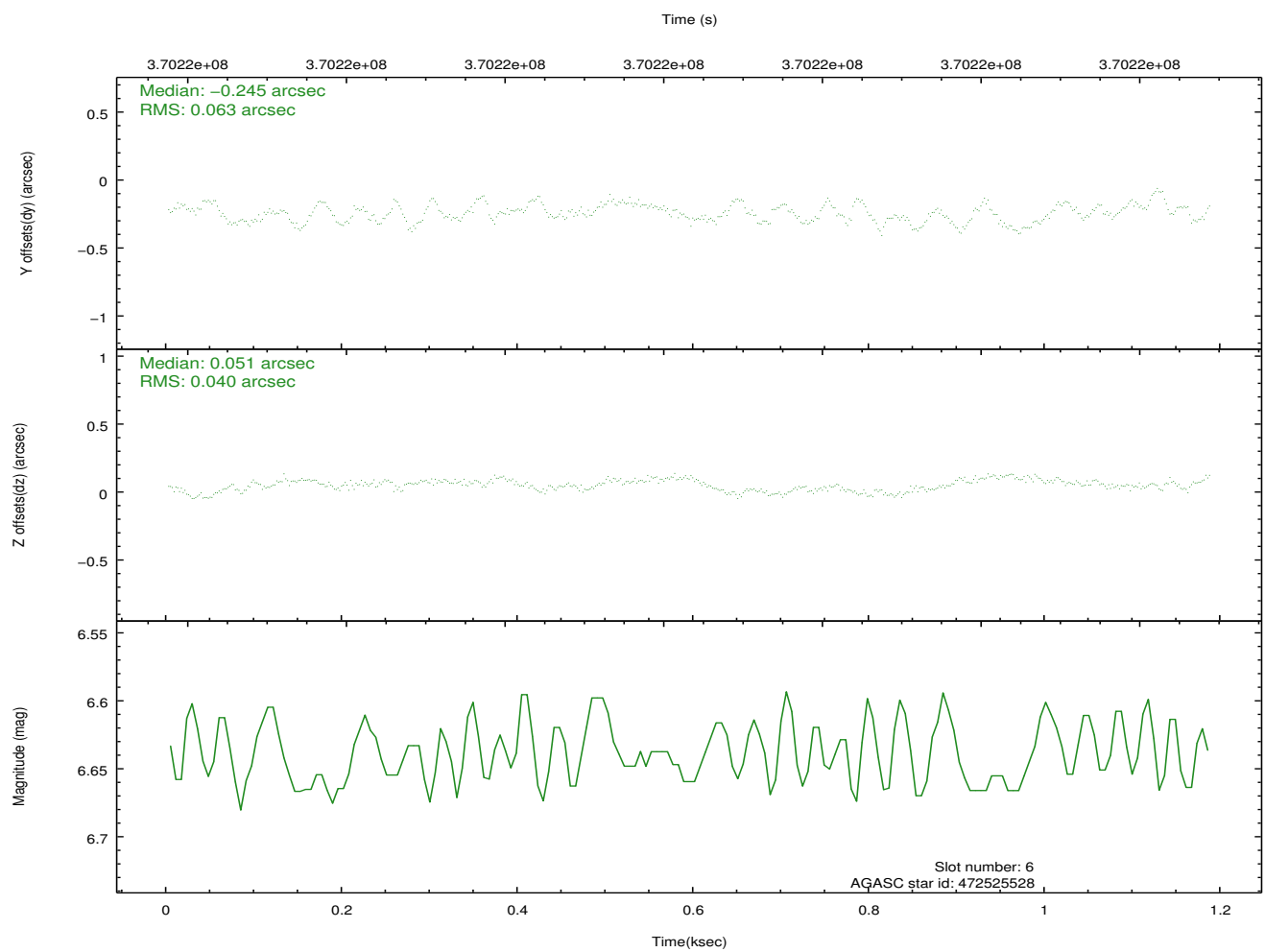
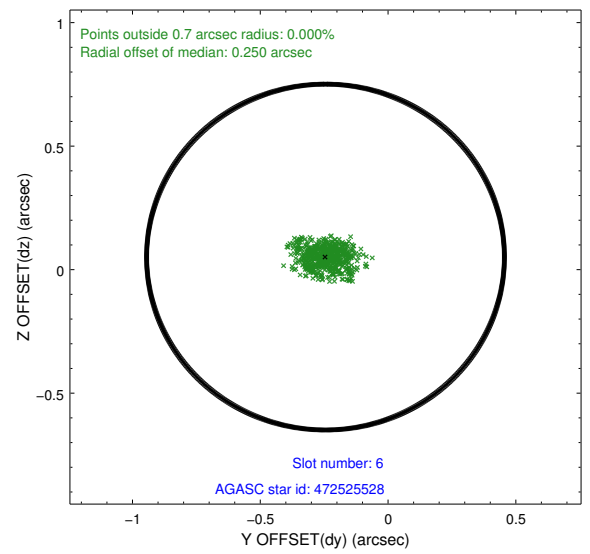
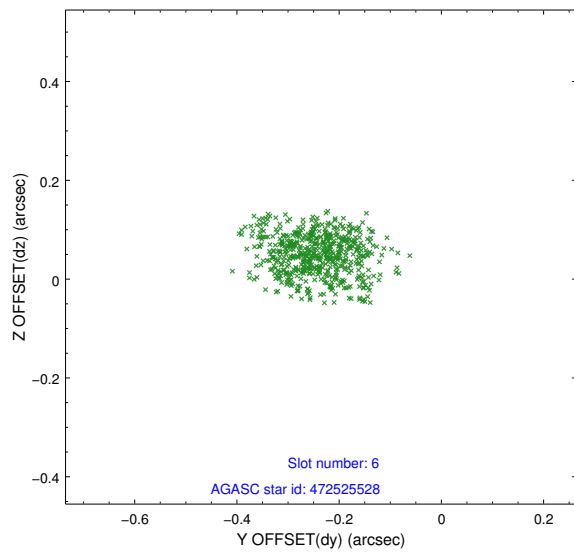
## 2.4.2 Slot 4



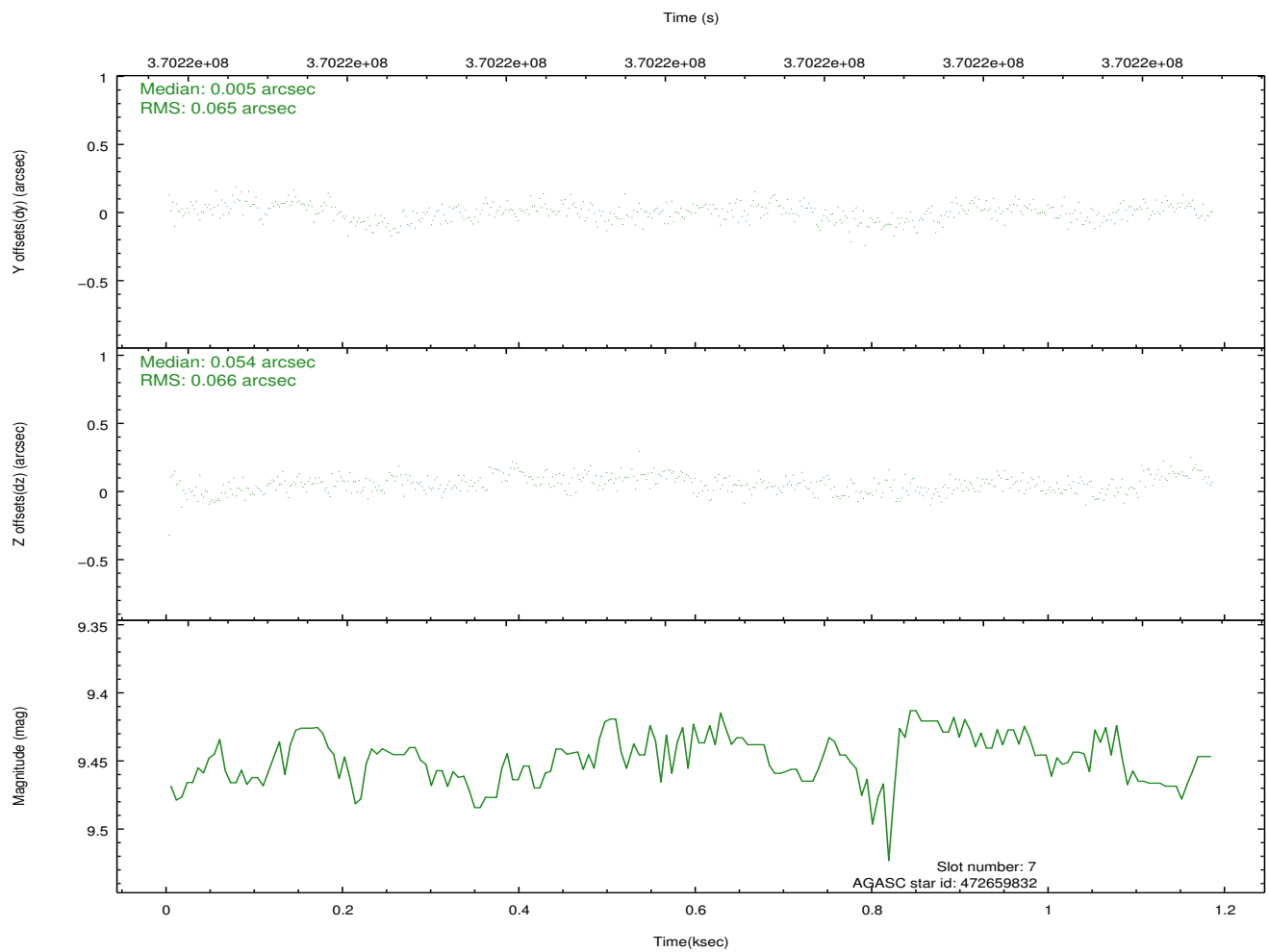
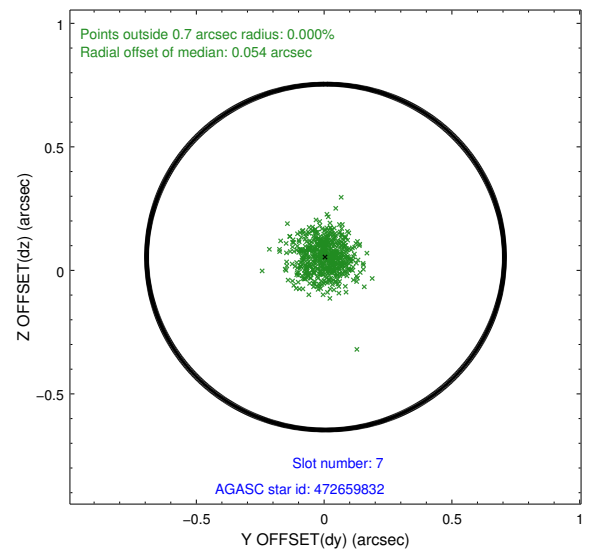
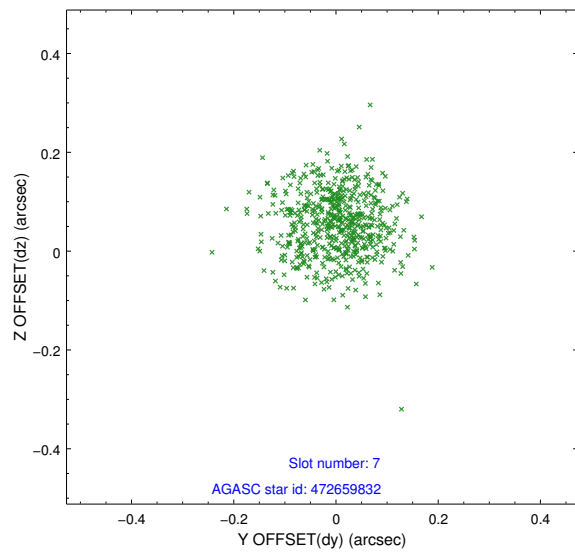
### 2.4.3 Slot 5



## 2.4.4 Slot 6

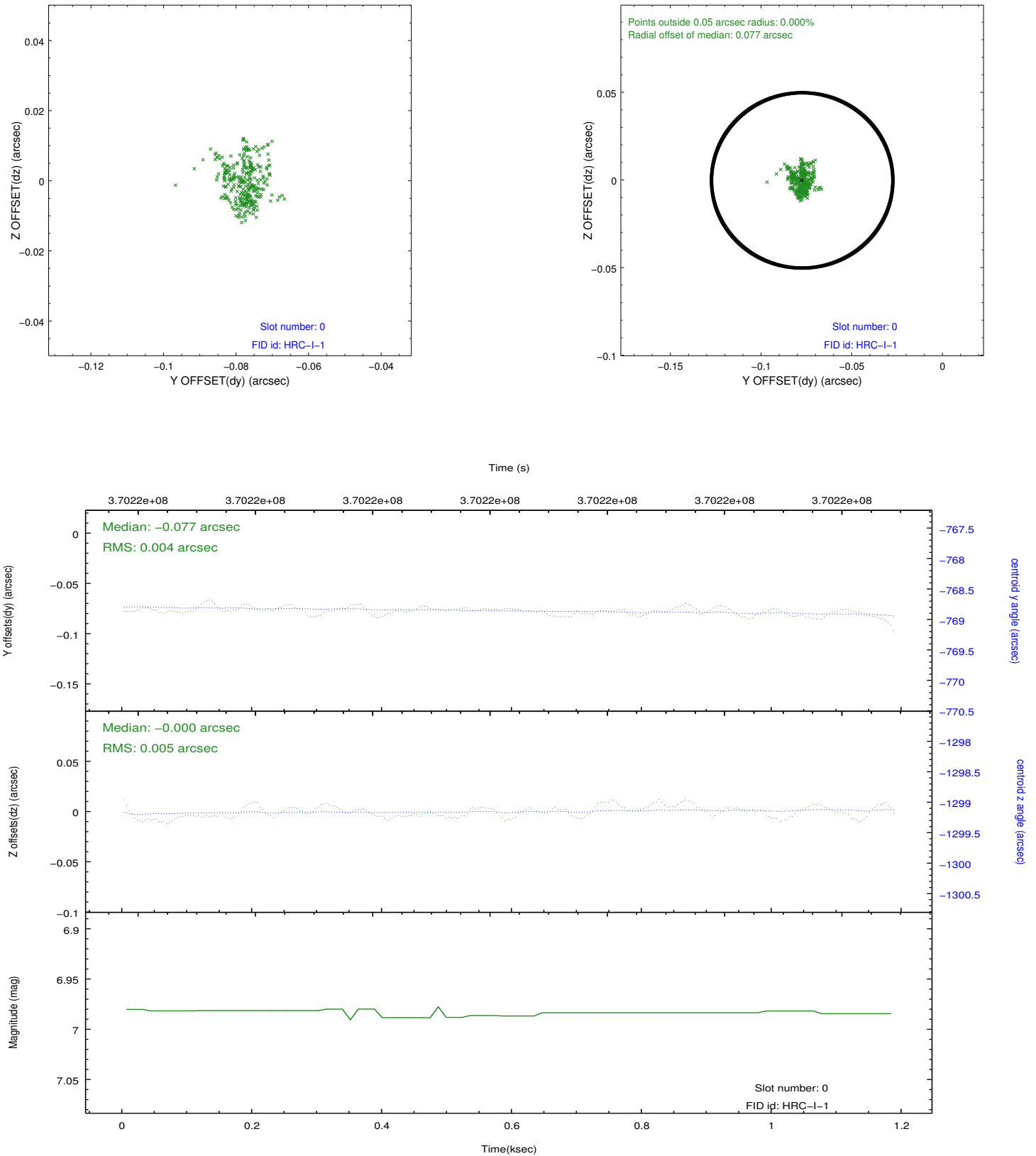


## 2.4.5 Slot 7

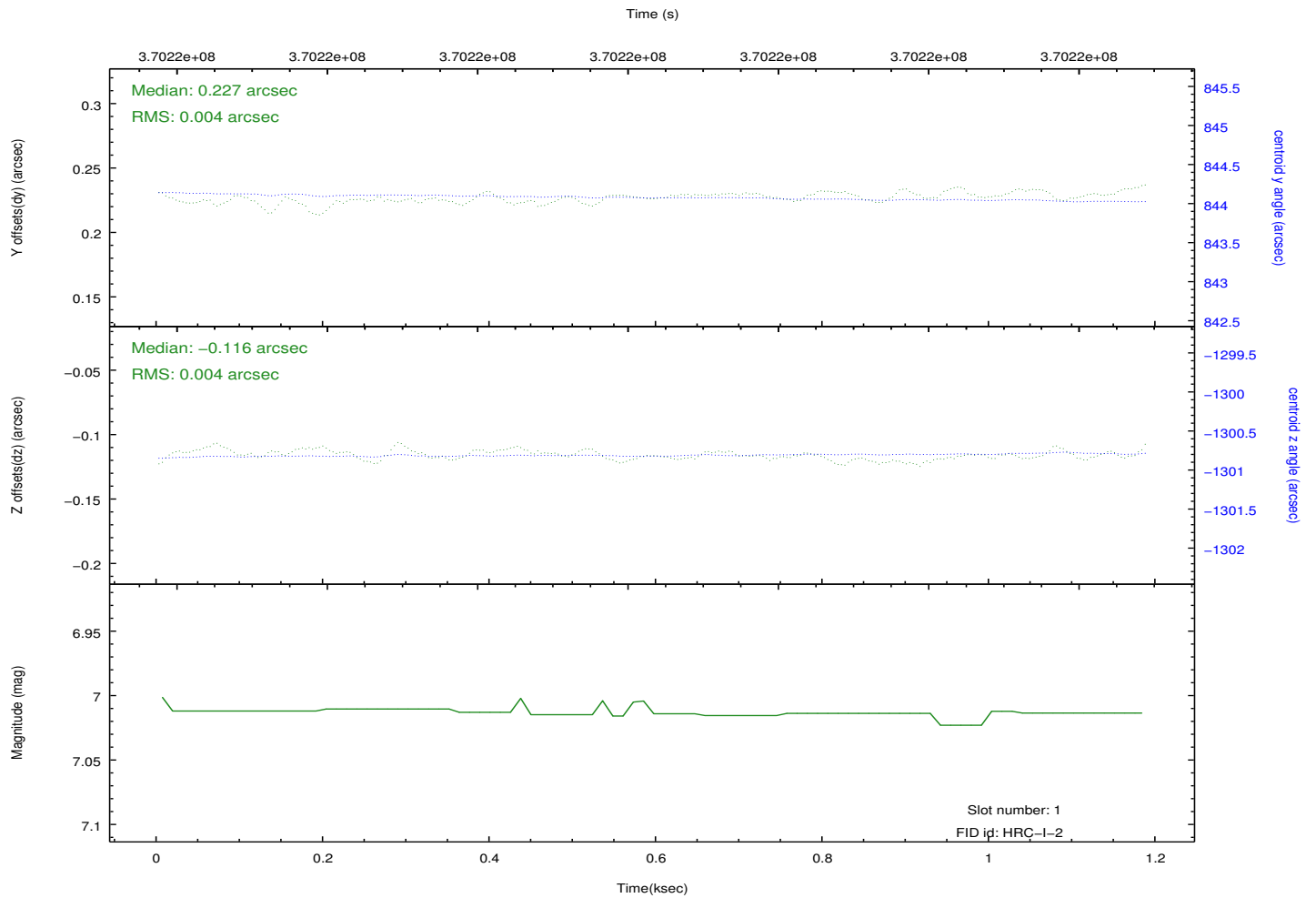
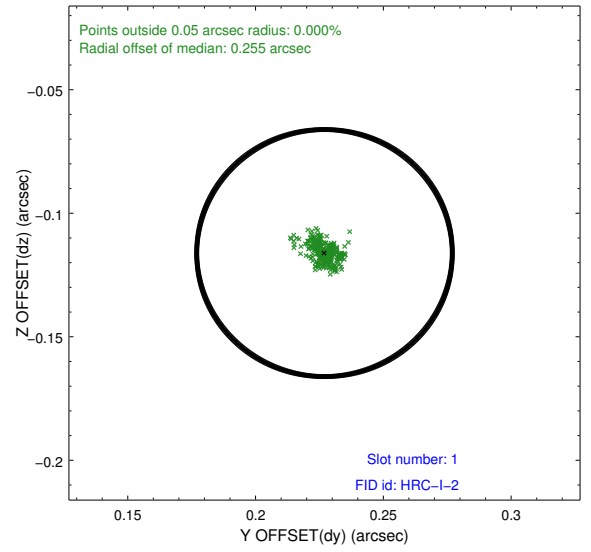
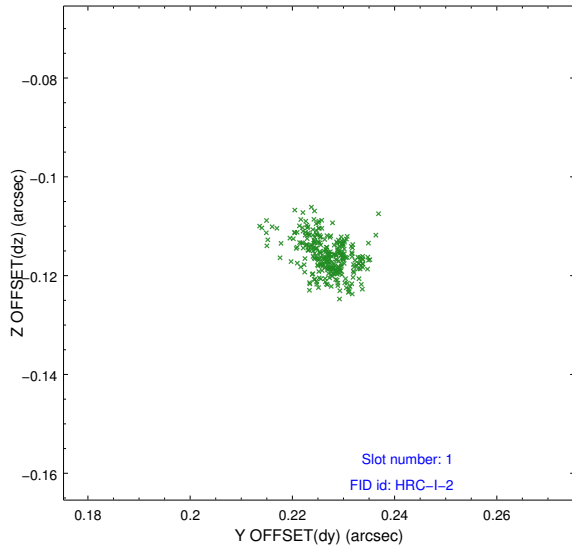


## 2.5 FID Slots

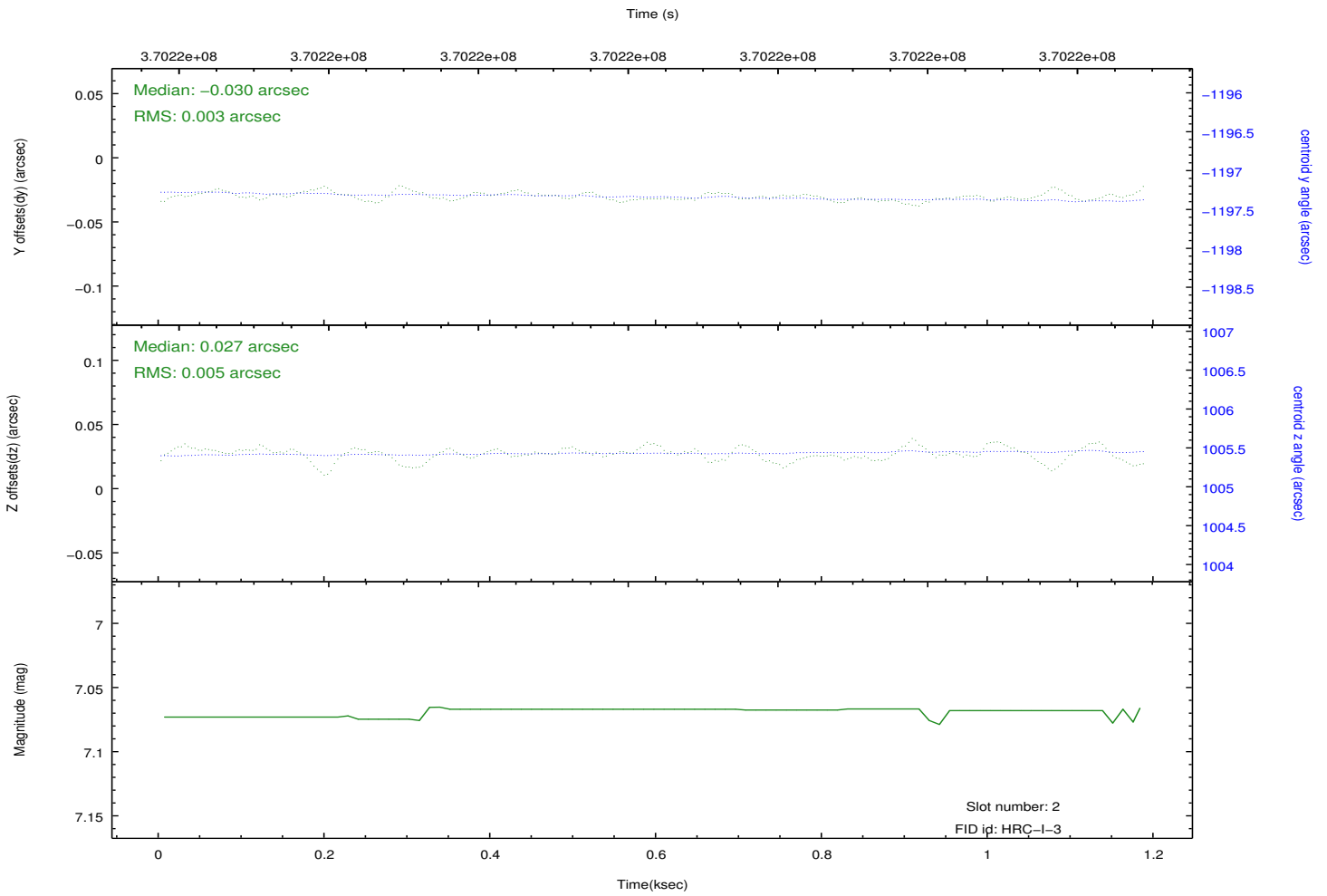
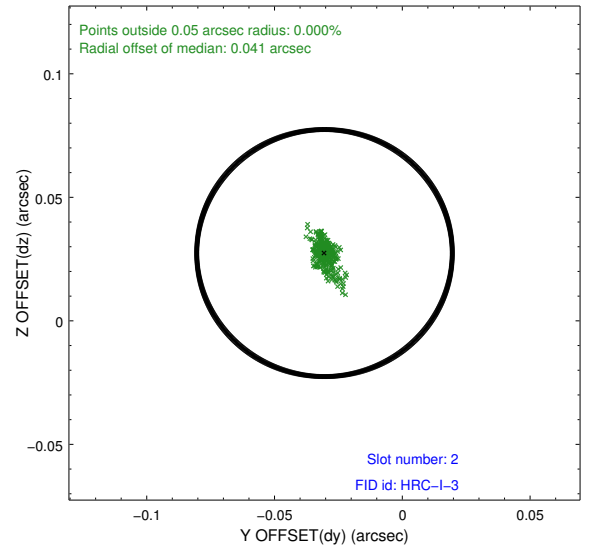
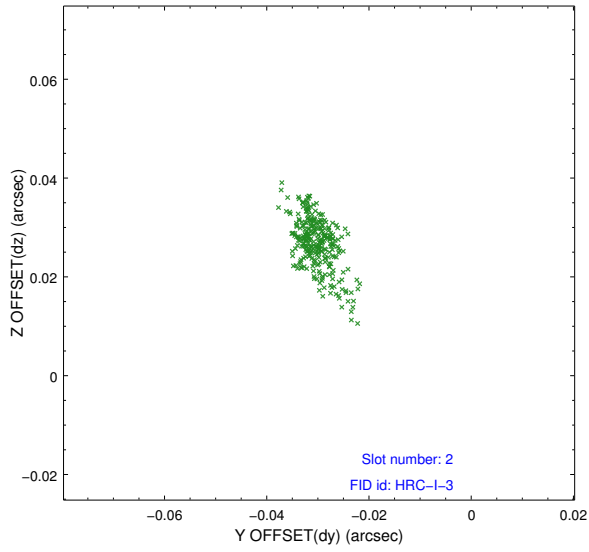
### 2.5.1 Slot 0



## 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)	2012.08.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1841313094497

## A.2 Comments