

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 15395 - L2 Version 2  
Chandra X-Ray Center

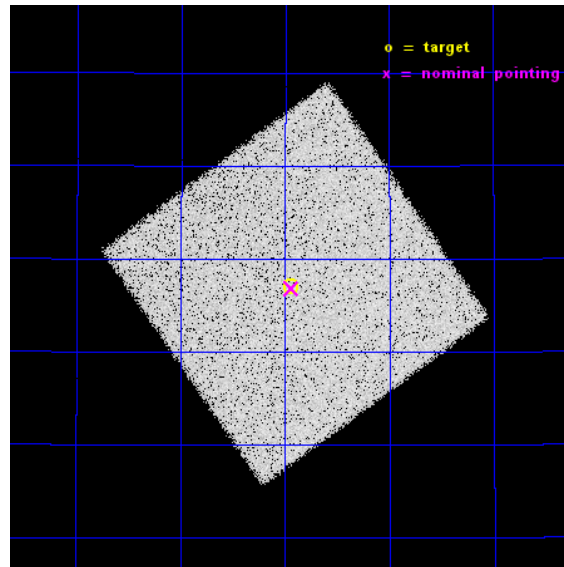
L2 Processing Date : Nov 27 2014

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# 1 Front

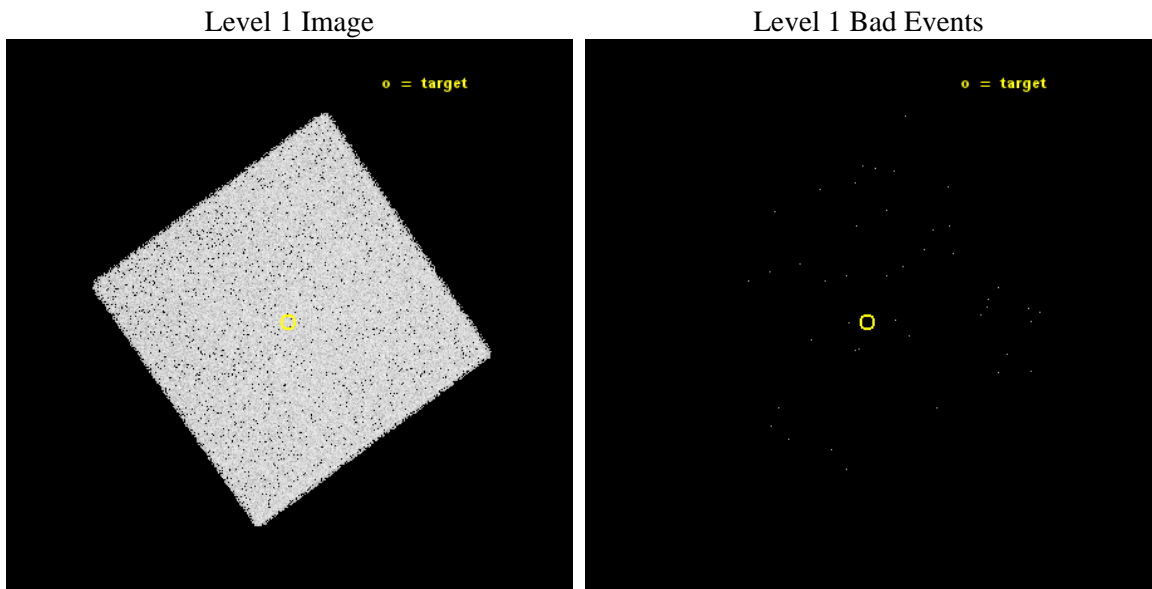
seq_num	291074	Sequence number
obs_id	15395	Observation id
title	AO-14 Measurements of the optical/UV Transmission of the HRC Filters.	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235833	Observer's specified target RA [deg]
dec_targ	38.78475	Observer's specified target Dec [deg]
ra_nom	279.23490580884	Nominal RA [deg]
dec_nom	38.780579786337	Nominal Dec [deg]
roll_nom	279.53051620571	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2182.4813671708	[s]
liveltime	2164.7401509582	Ontime multiplied by DTCOR
l2events	132836	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	2182.4813671708	[s]
caldbver	4.6.4	&#160	l1events	270666	Number of level 1 events
date	2014-11-27T22:46:39	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

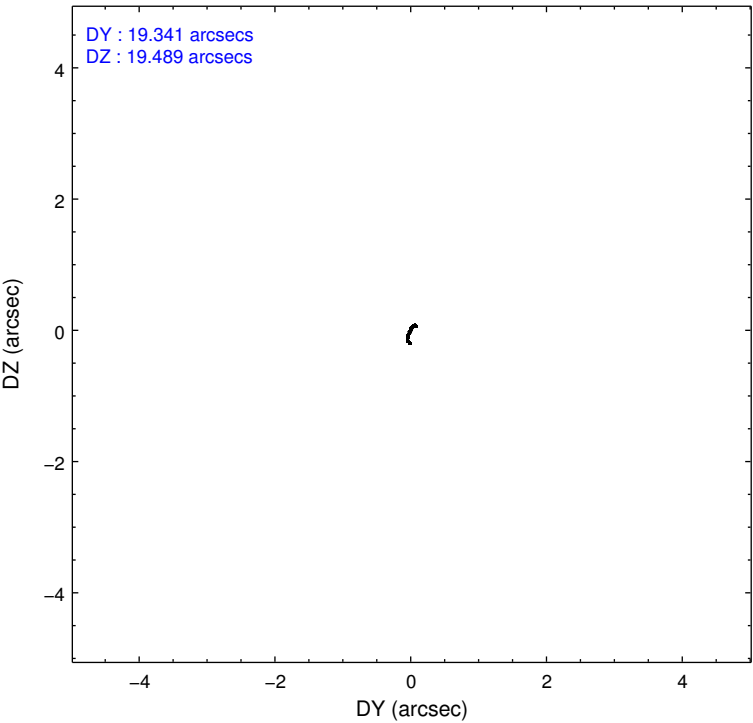
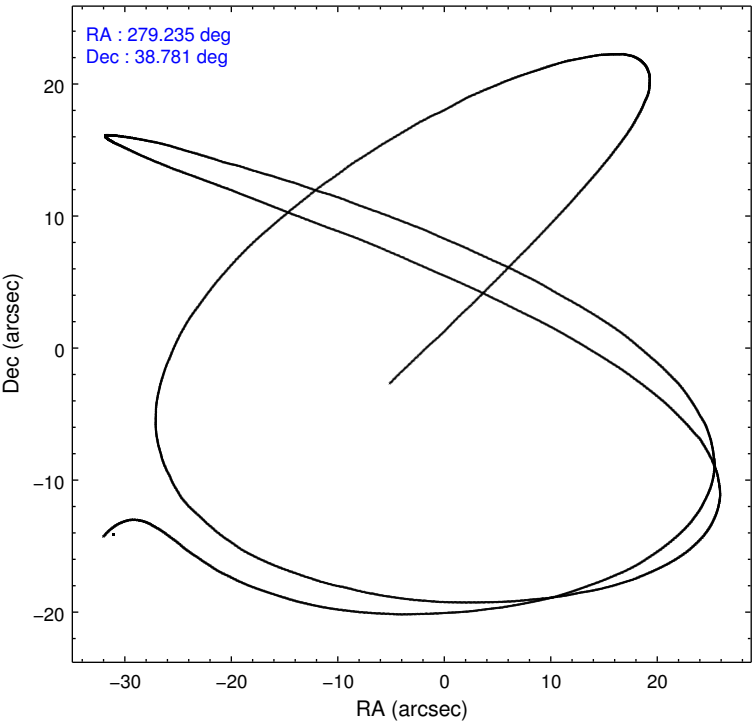
#### Level 1 Events

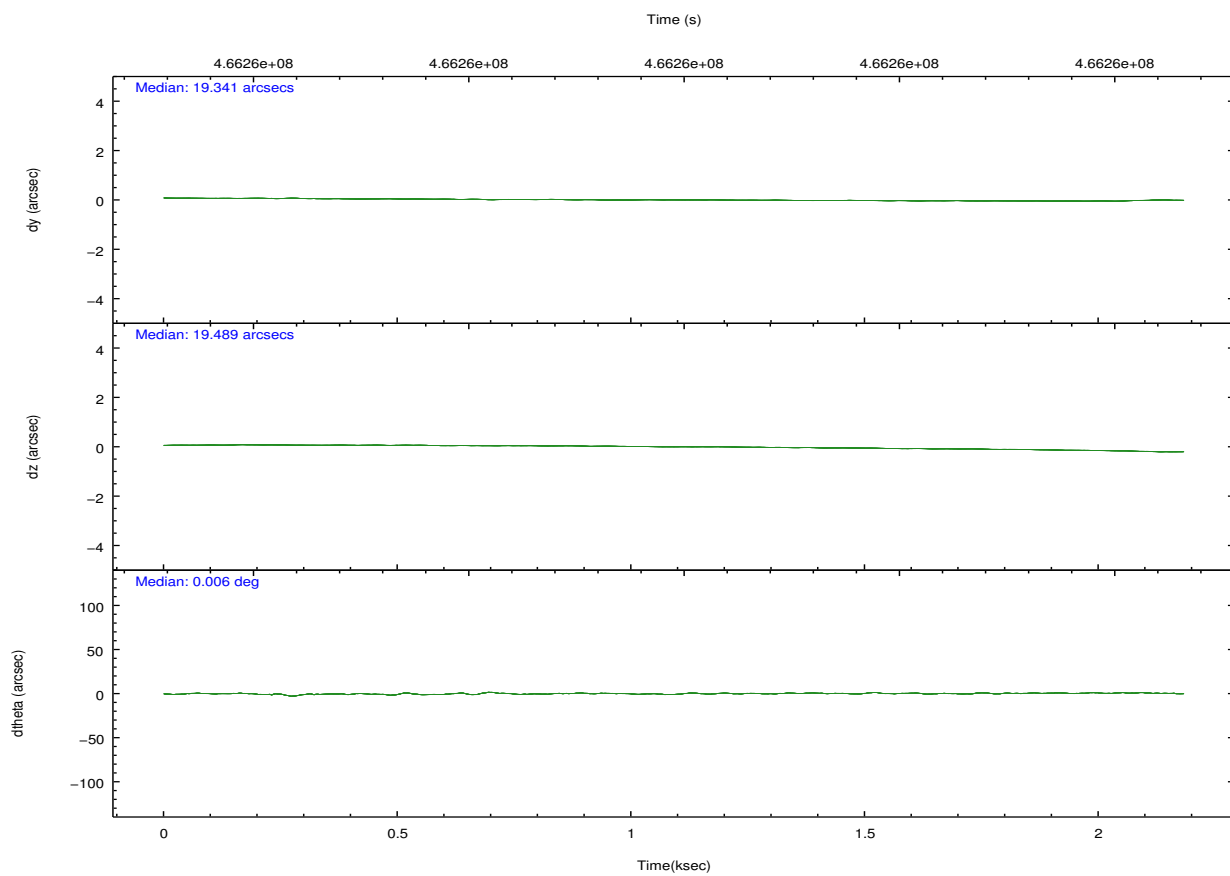
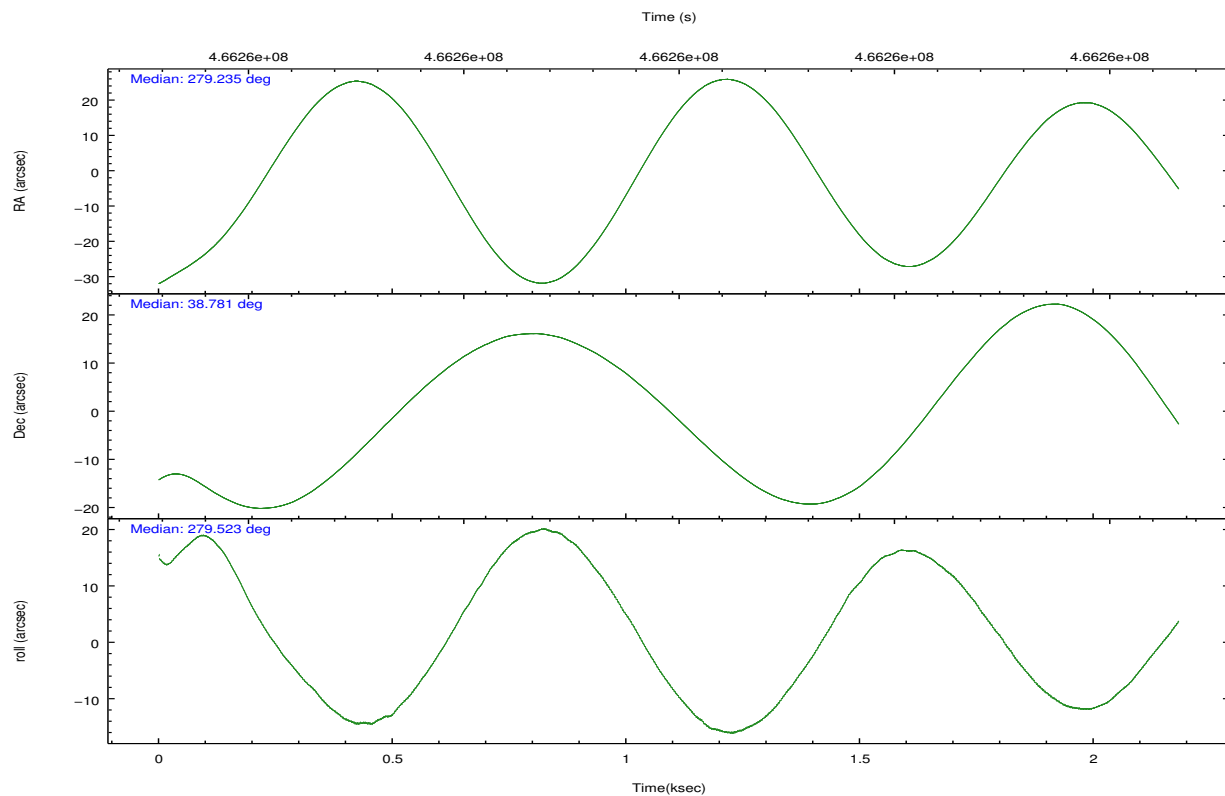
	<b>segment 0</b>
level 1 events	270666
rejected events	87772
rejected %	32%

## 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	279.211865	279.234905808844			
[deg] Pointing Dec	38.801194	38.78057978633692			
[deg] Pointing Roll	279.640510	279.5305162057139			
[s] Window start time (MET)	462844867.184000	462844867.184000			
[s] Window stop time (MET)	468028867.184000	468028867.184000			
[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)	466258071.184000	466257108.97041			
Observation start date	2012-10-10T12:06:44	2012-10-10T11:51:48			
[s] Observation end time (MET)	466260071.184000	466260208.05808			
Observation end date	2012-10-10T12:40:04	2012-10-10T12:43:28			

2.3 Aspect





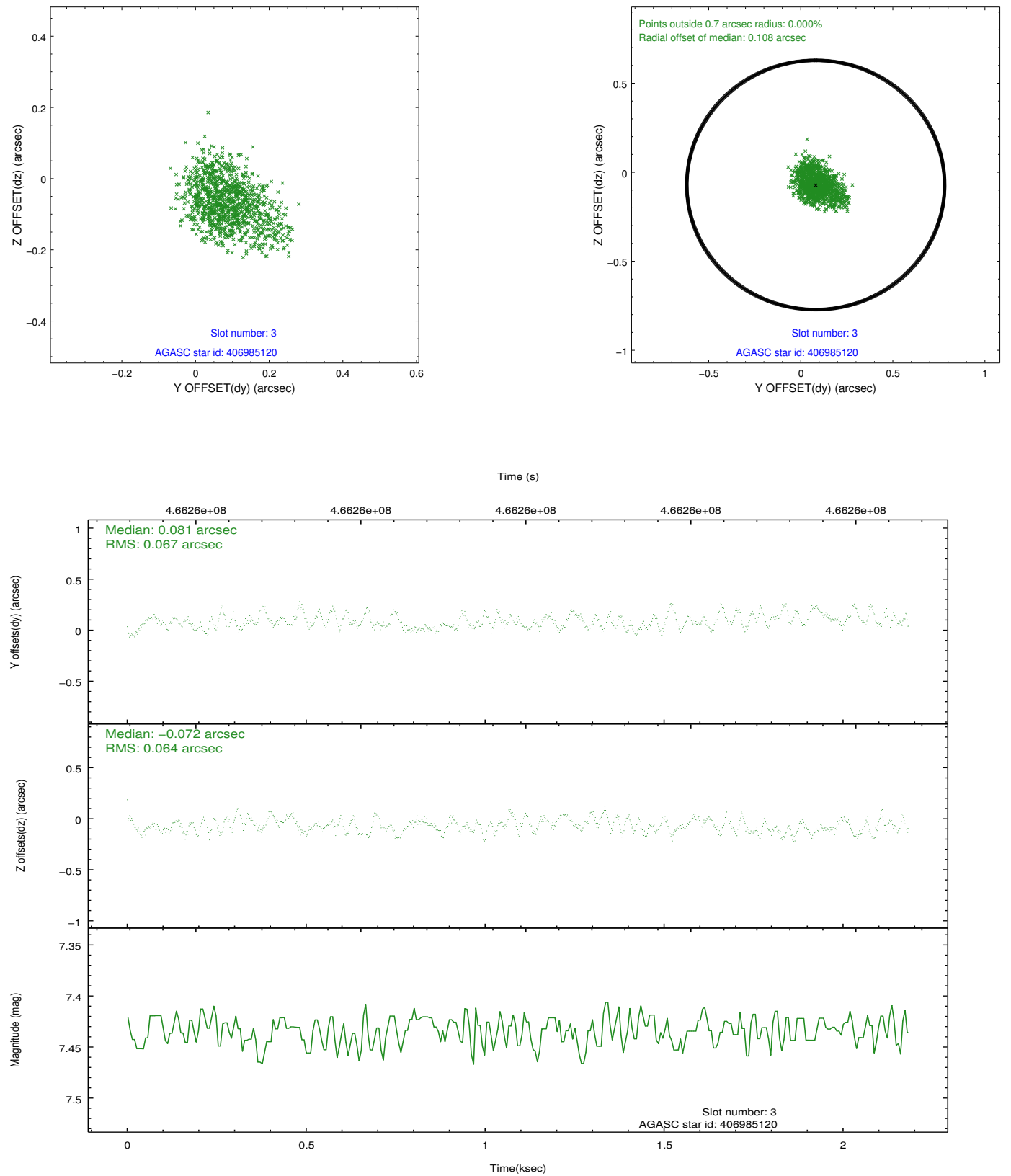
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.06	533	-0.134	0.003	0.008	0.013	0.000000	0.000000	-775.34	-1307.71
1	FID		HRC-I-2	7.10	533	0.294	-0.128	0.007	0.011	0.000000	0.000000	836.26	-1311.80
2	FID		HRC-I-3	7.14	533	-0.041	0.037	0.006	0.012	0.000000	0.000000	-1202.26	994.41
3	GUIDE	used	406985120	7.43	1066	0.081	-0.072	0.100	0.160	278.839732	38.894839	-508.70	-971.39
4	GUIDE	used	406987272	6.96	1066	-0.100	0.149	0.072	0.125	278.536588	38.437504	964.17	-2096.38
5	GUIDE	used	406987384	8.96	1063	-0.011	-0.038	0.118	0.191	278.815518	38.115336	2245.17	-1521.70
6	GUIDE	used	407521232	8.63	1066	0.024	0.136	0.082	0.138	279.628883	39.431715	-2044.20	1522.13
7	GUIDE	used	407513096	8.15	1065	-0.003	-0.177	0.076	0.121	279.928965	39.436841	-1932.02	2351.14

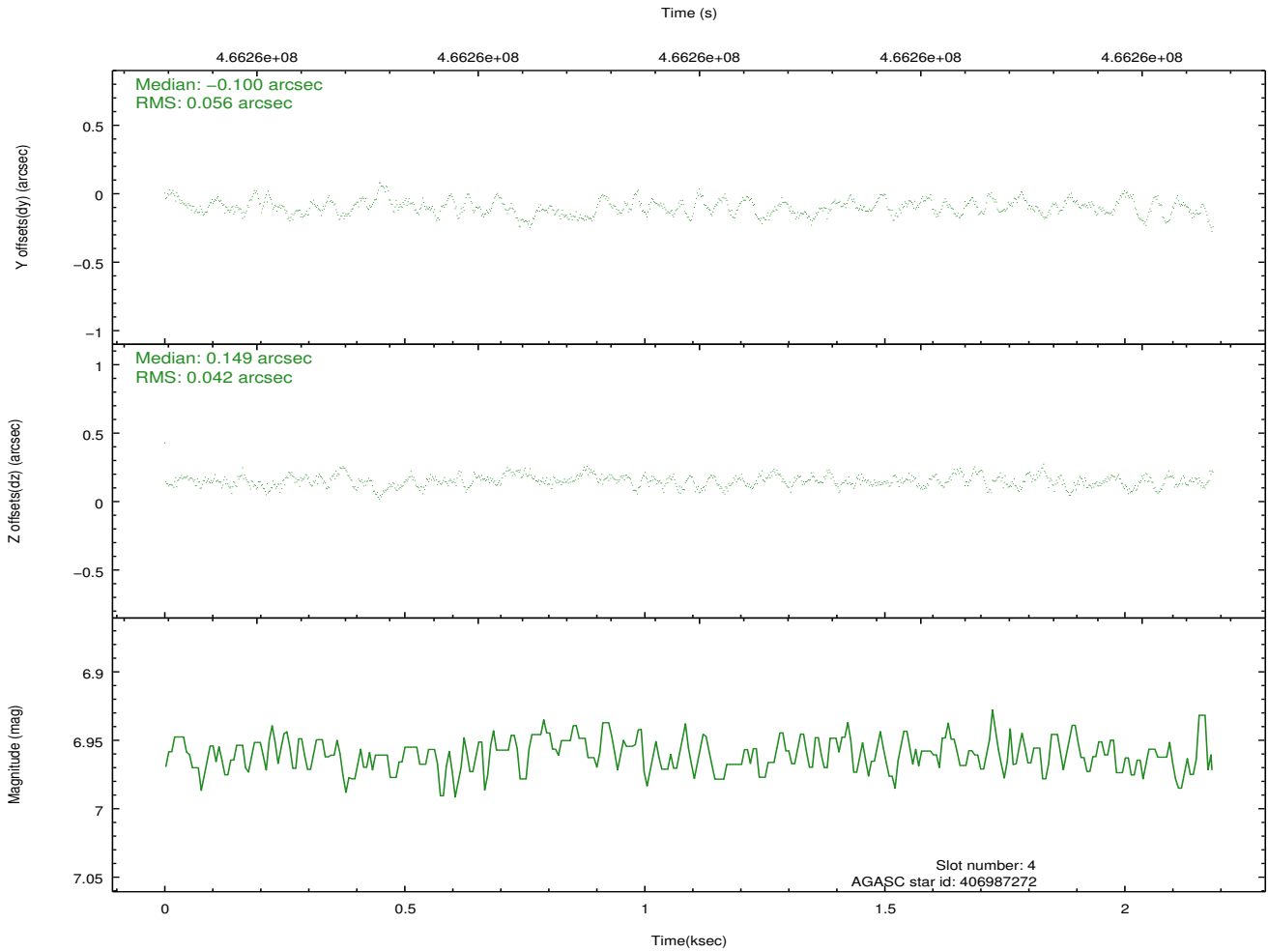
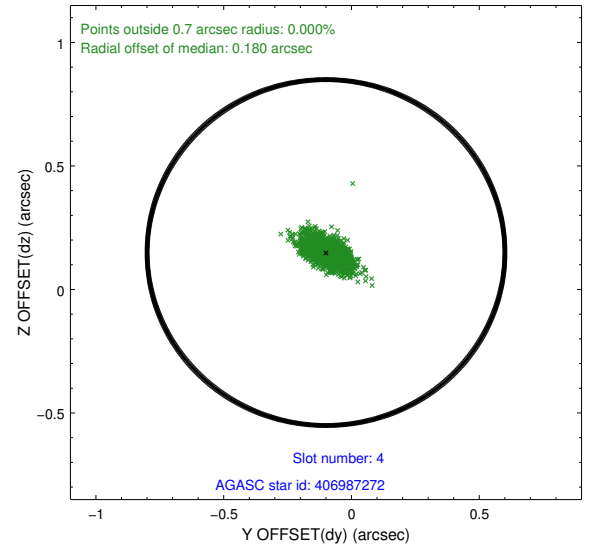
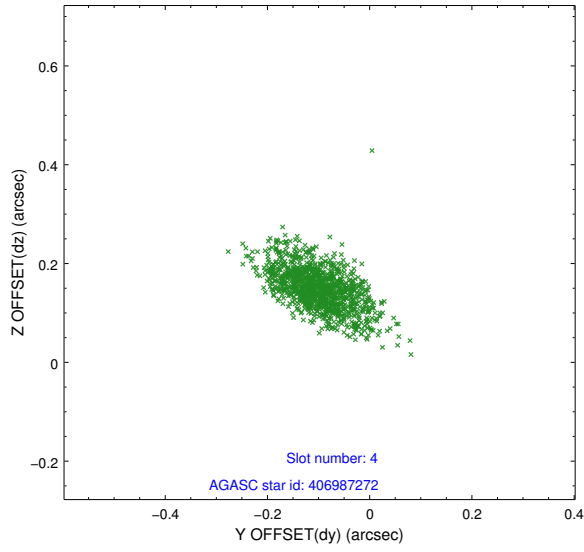


## 2.4 Star Slots

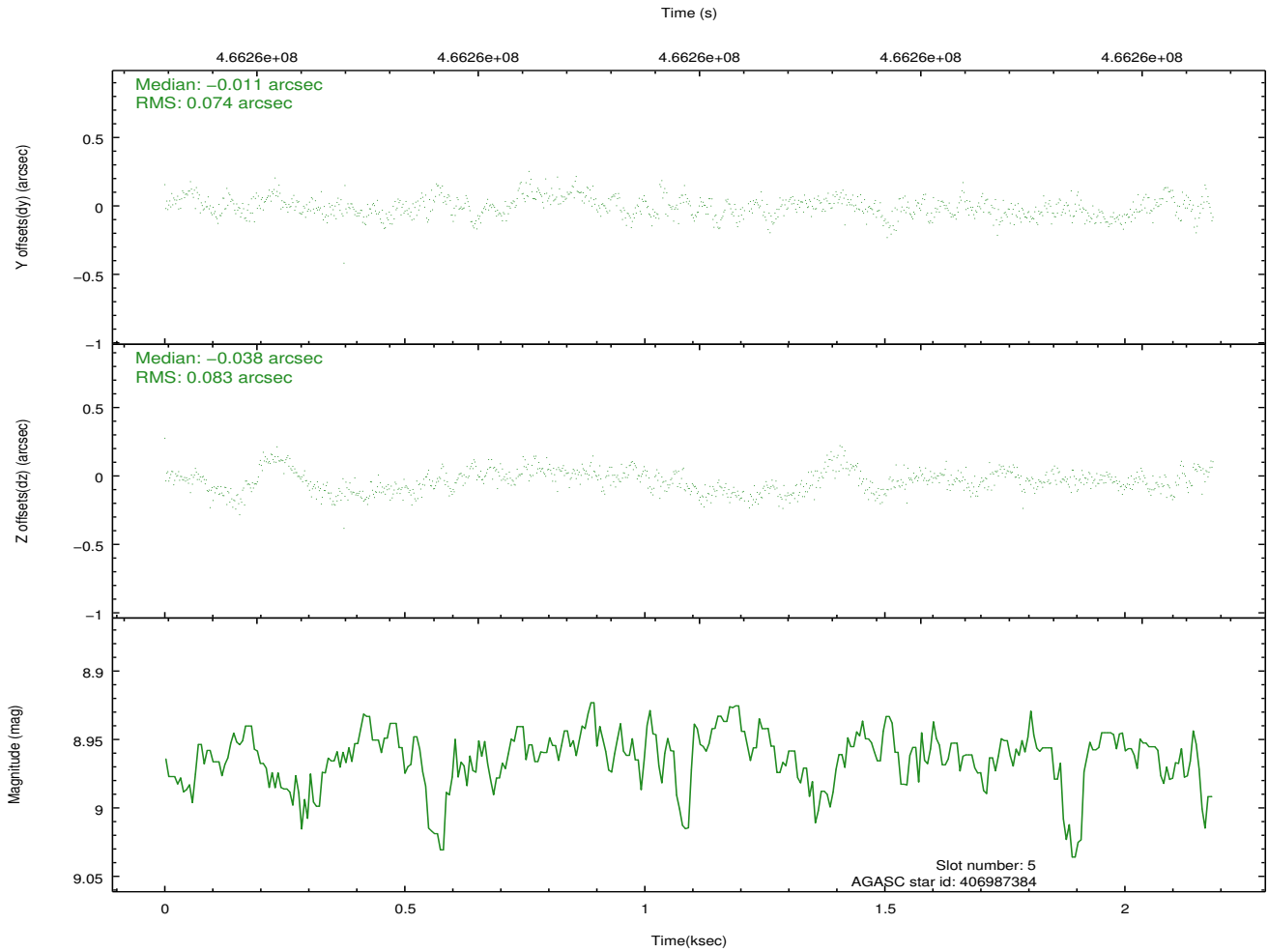
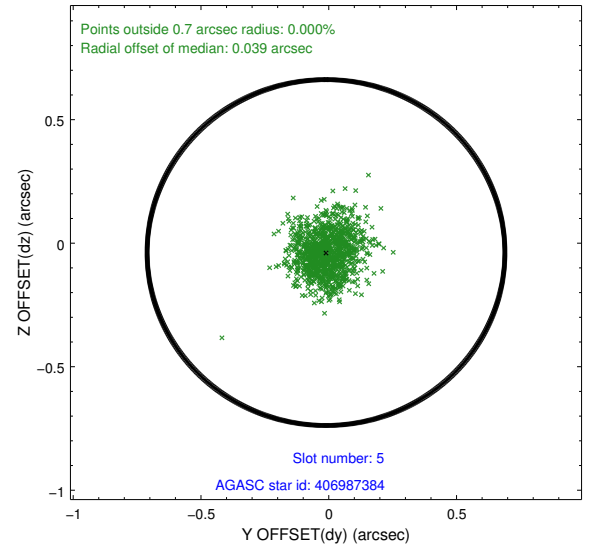
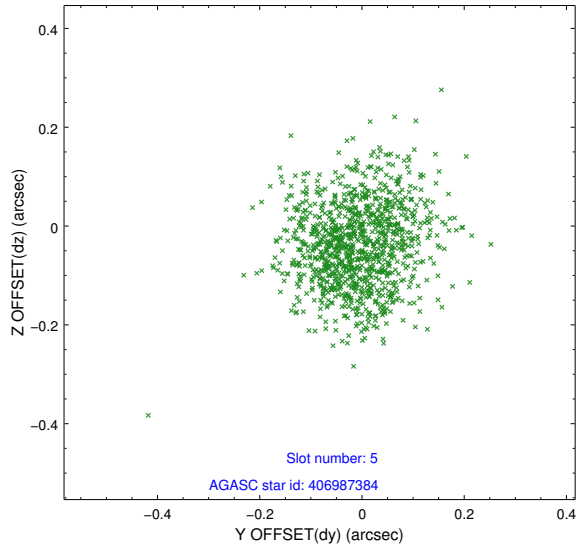
### 2.4.1 Slot 3



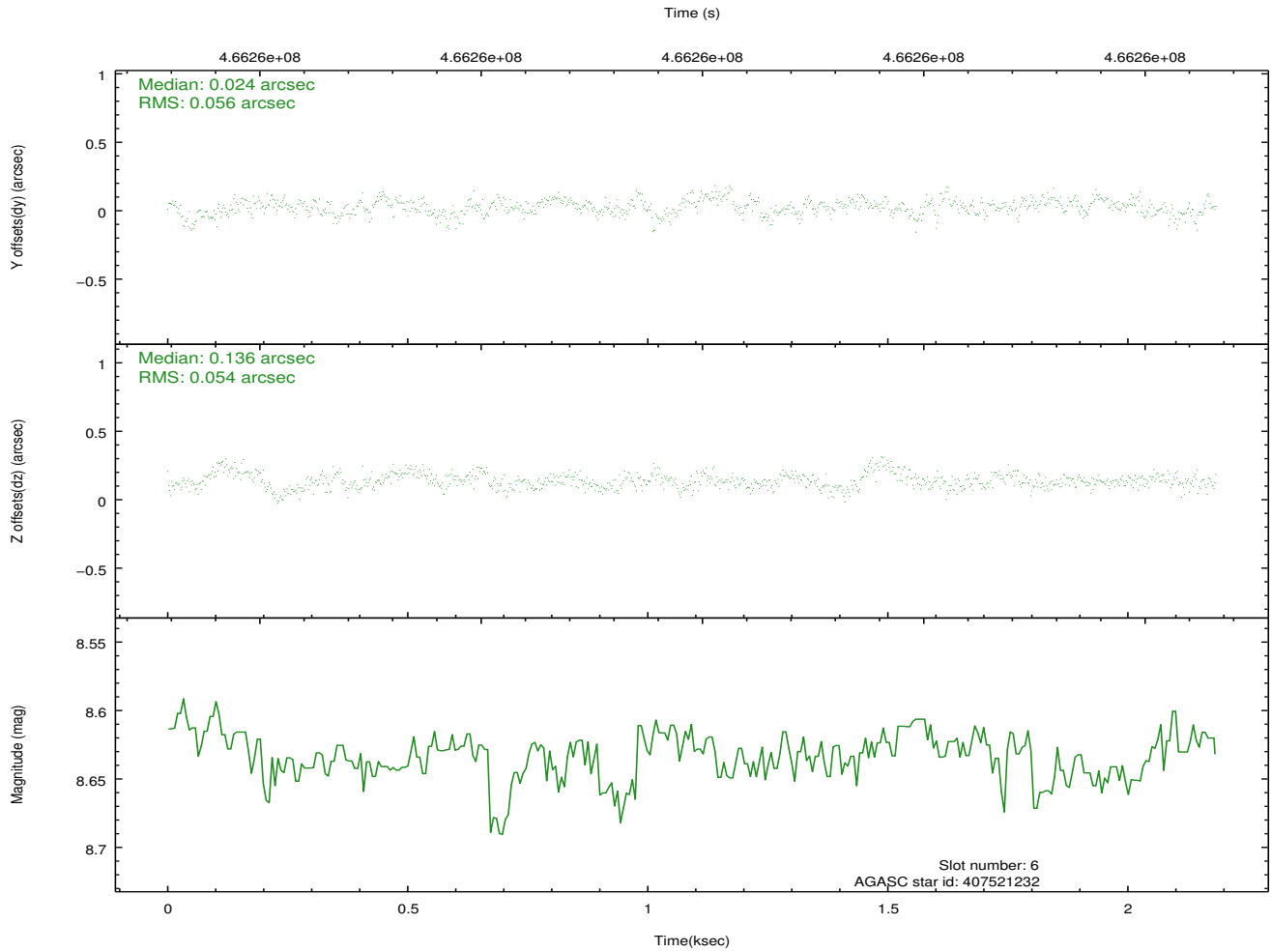
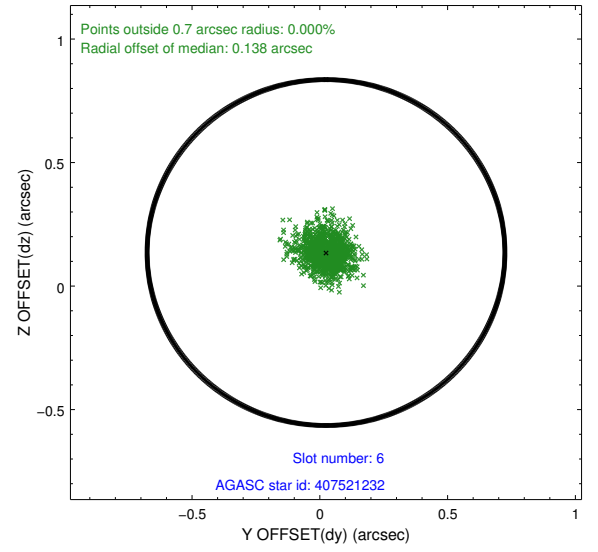
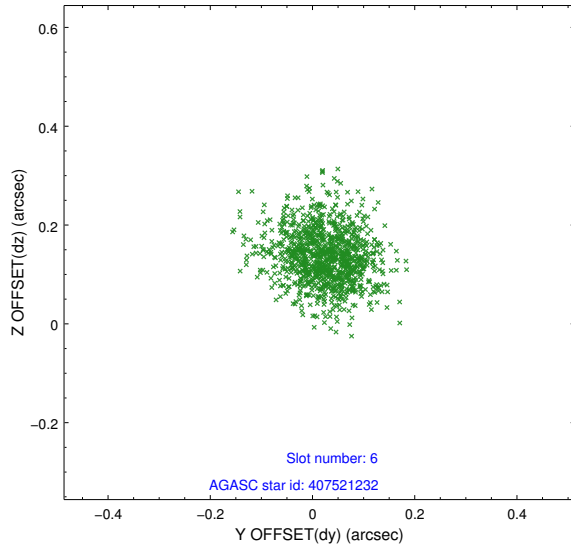
## 2.4.2 Slot 4



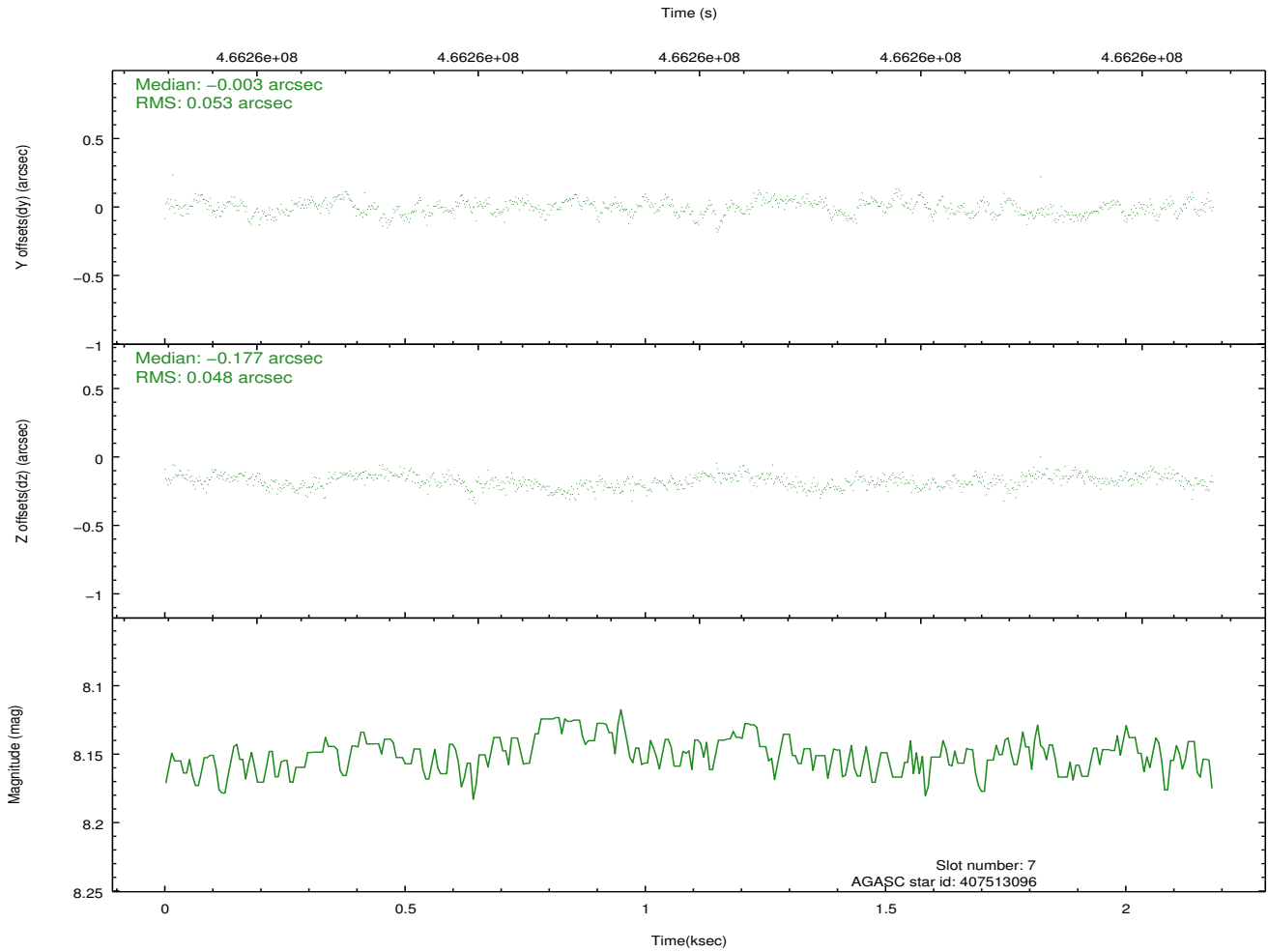
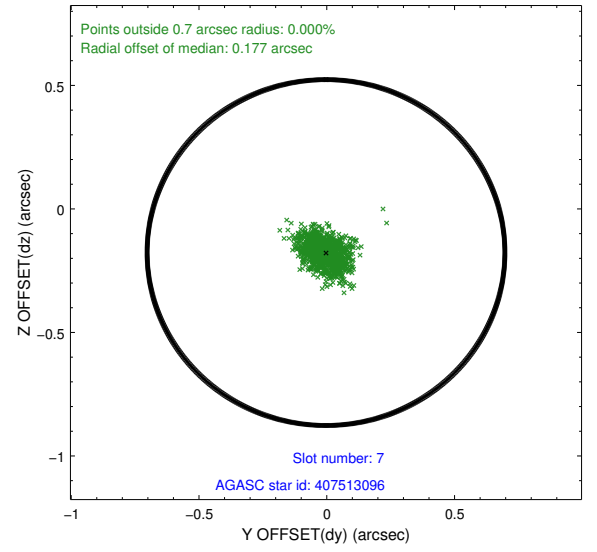
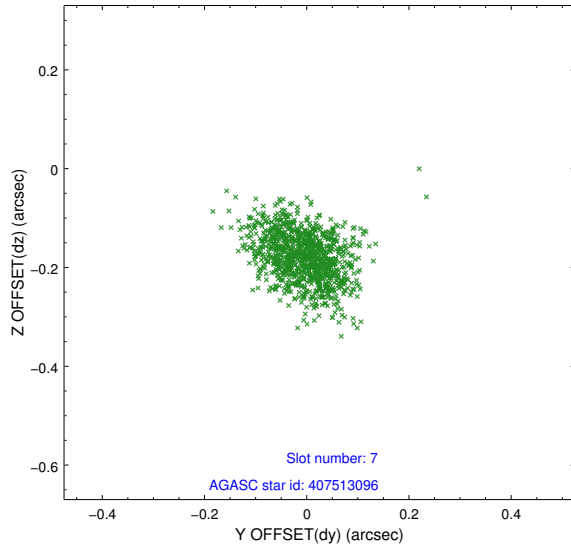
### 2.4.3 Slot 5



## 2.4.4 Slot 6

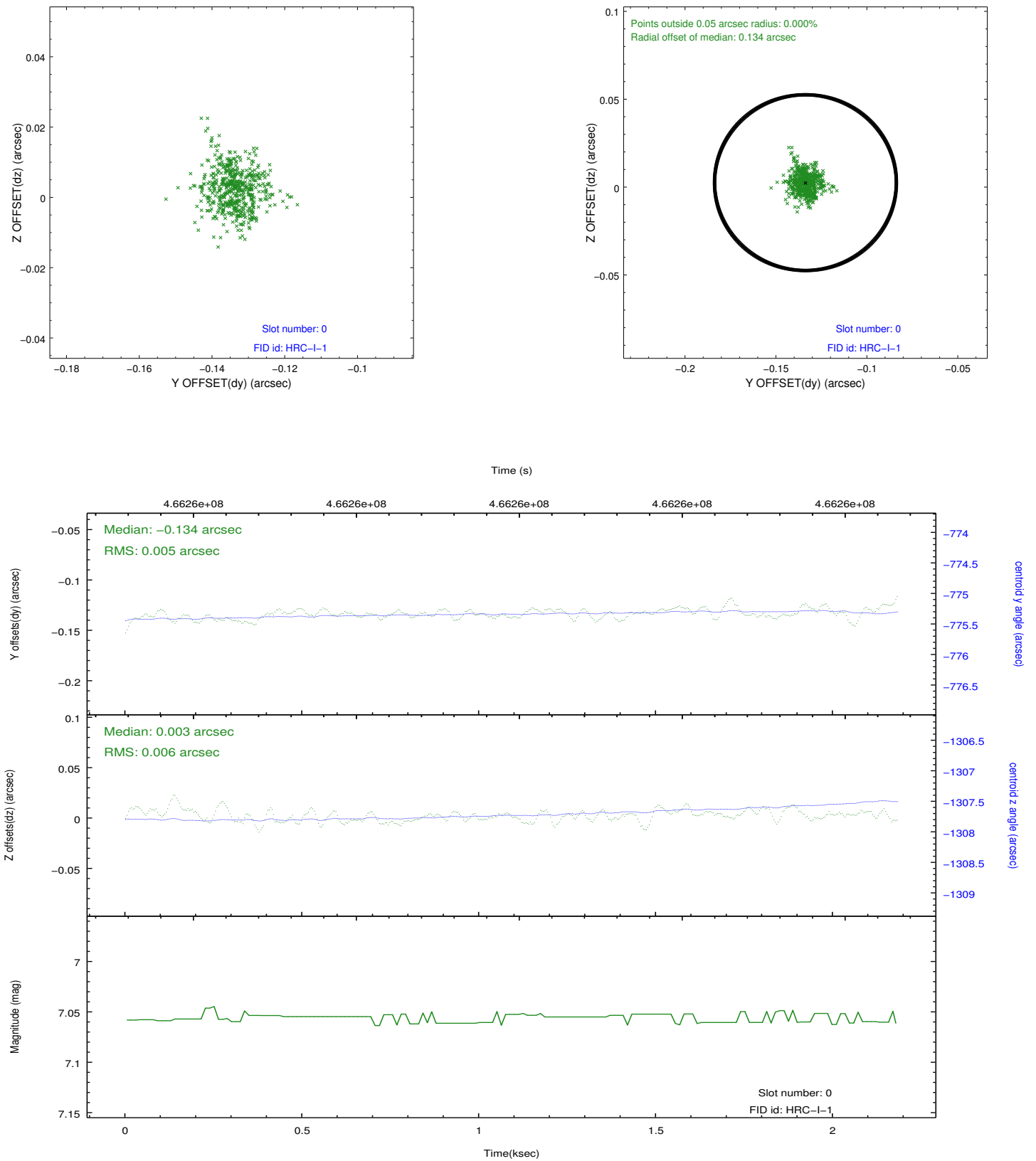


## 2.4.5 Slot 7

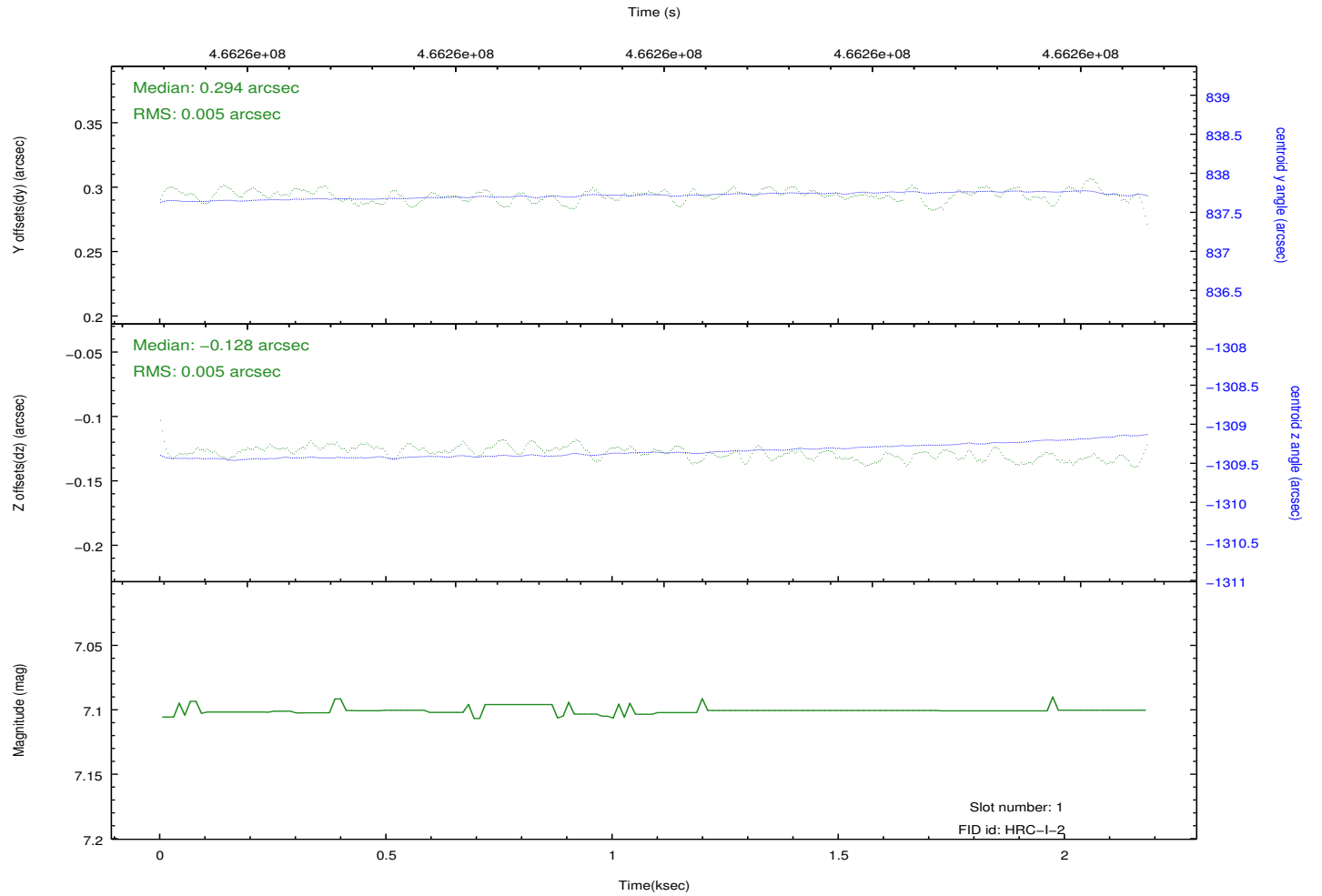
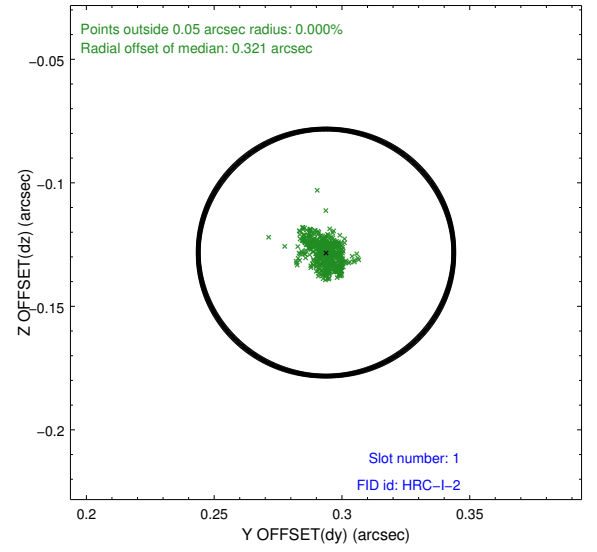
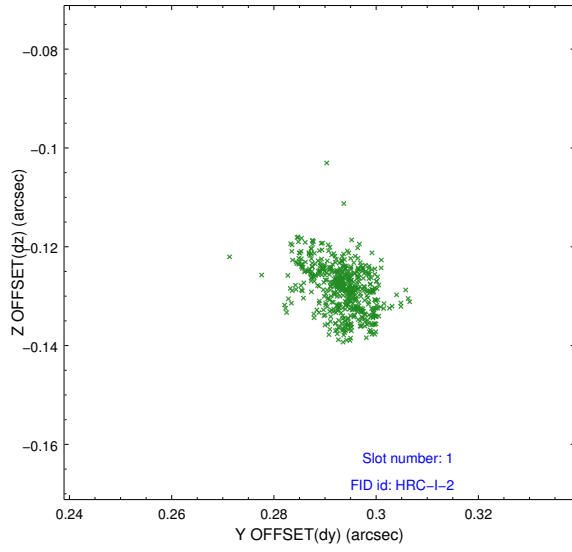


## 2.5 FID Slots

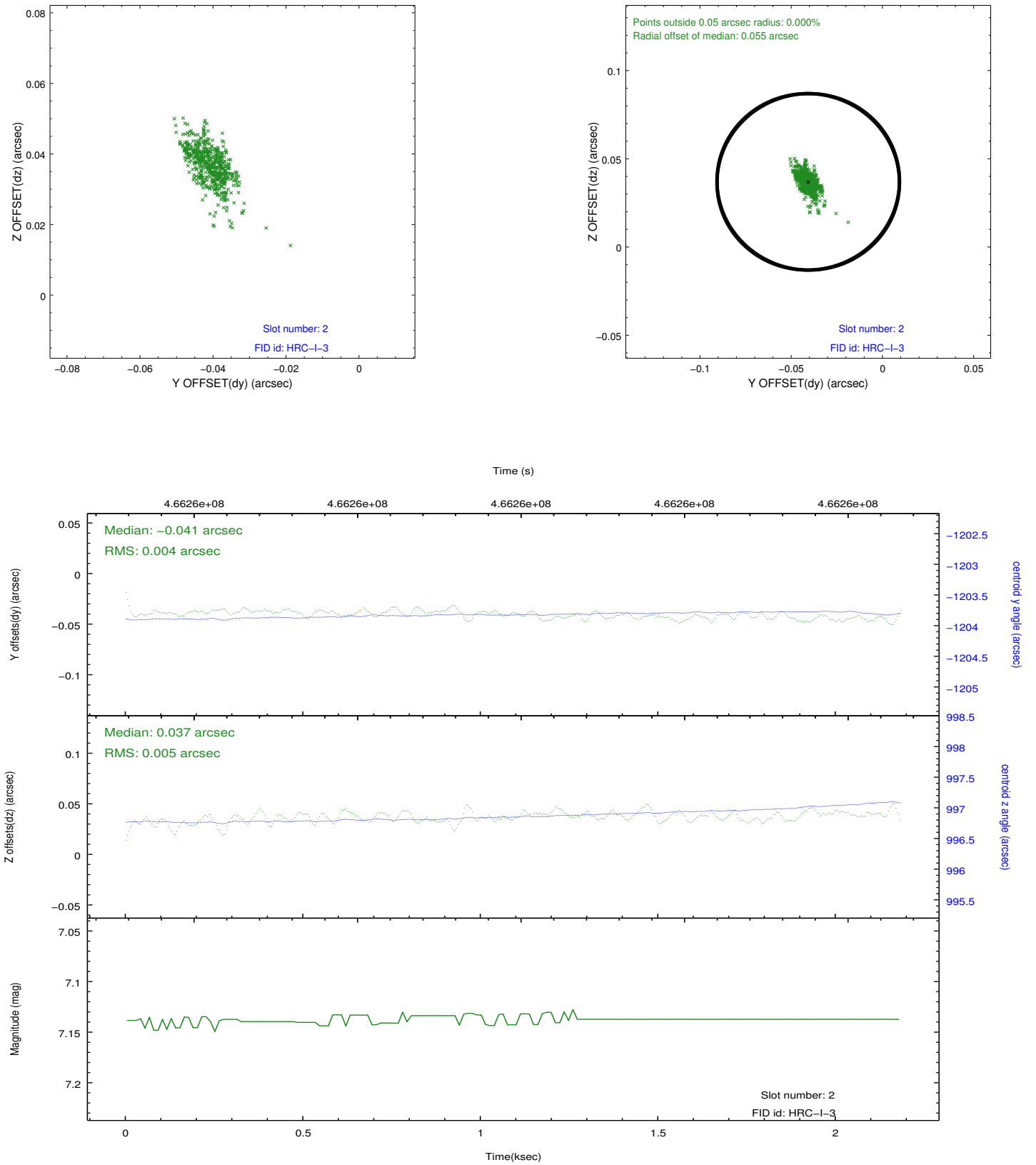
### 2.5.1 Slot 0



## 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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.1824813671708

## A.2 Comments

Window preference met.

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These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.