

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3687 - L2 Version 4  
Chandra X-Ray Center

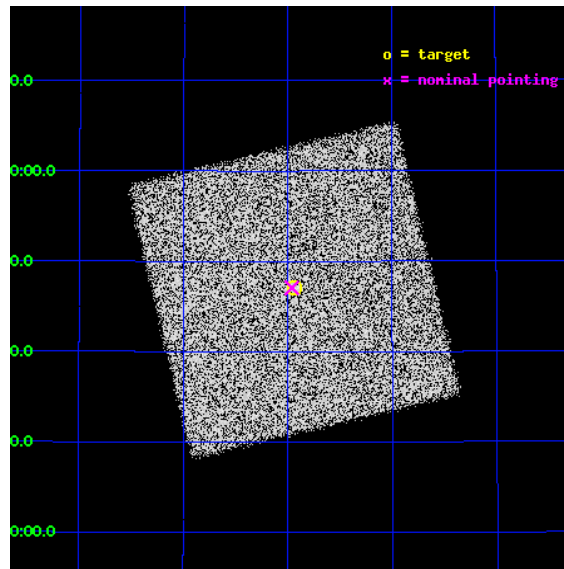
L2 Processing Date : Oct 21 2012

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# 1 Front

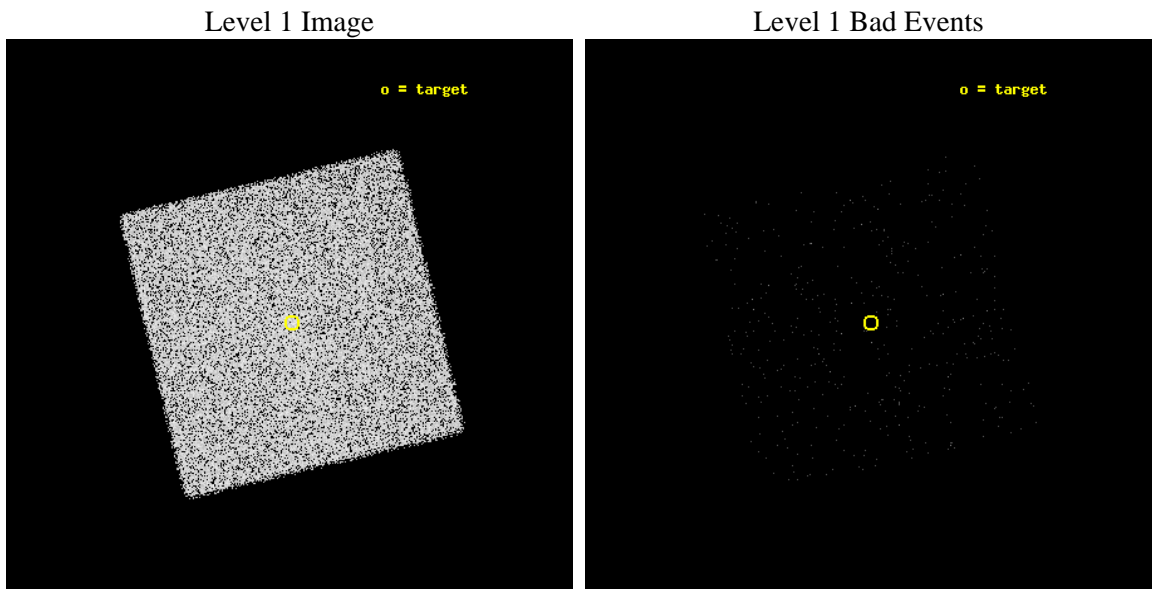
seq_num	290241	Sequence number
obs_id	3687	Observation id
title	AO4 MEASUREMENTS OF THE OPTICAL/UV TRANSMISSION OF THE HRC AND ACIS FILTERS	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	VEGA	Source name
ra_targ	279.235	Observer's specified target RA [deg]
dec_targ	38.783778	Observer's specified target Dec [deg]
ra_nom	279.2401549802	Nominal RA [deg]
dec_nom	38.784461085232	Nominal Dec [deg]
roll_nom	31.709850473789	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1983.6313332021	[s]
livetime	1973.5660995561	Ontime multiplied by DTCOR
l2events	54530	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	8.4.5	Processing system revision	ontime	1983.6313332021	[s]
caldbver	4.5.2	&#160	l1events	86814	Number of level 1 events
date	2012-10-21T04:52:11	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

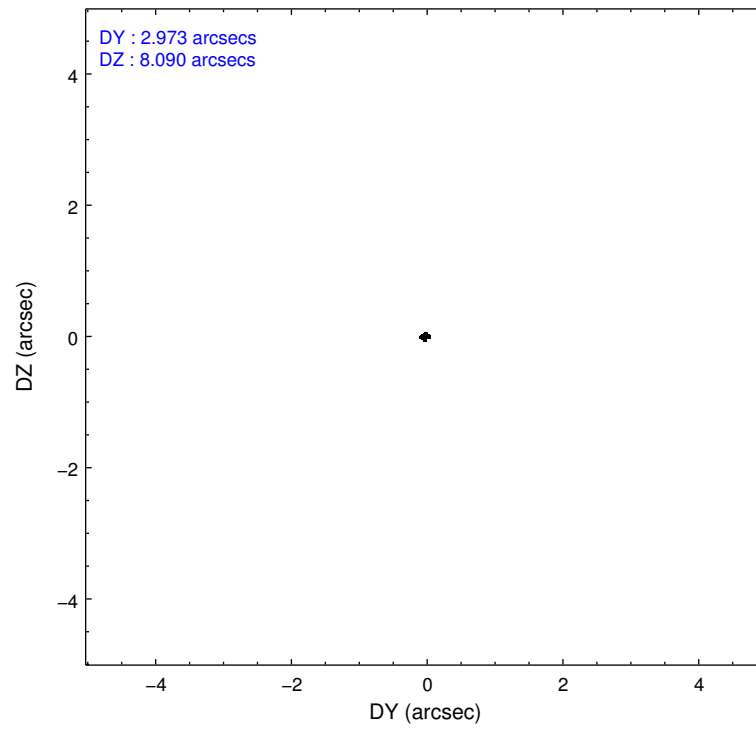
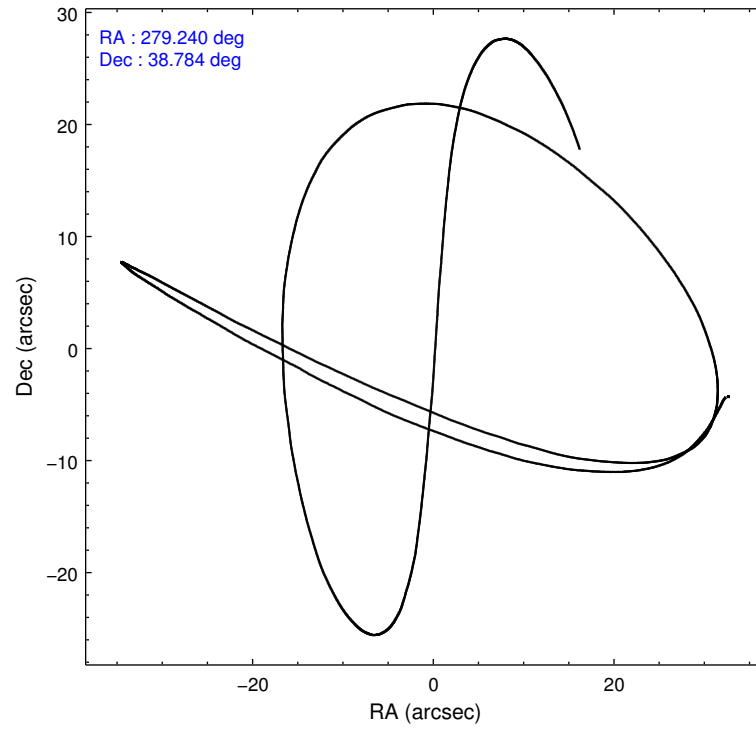
#### Level 1 Events

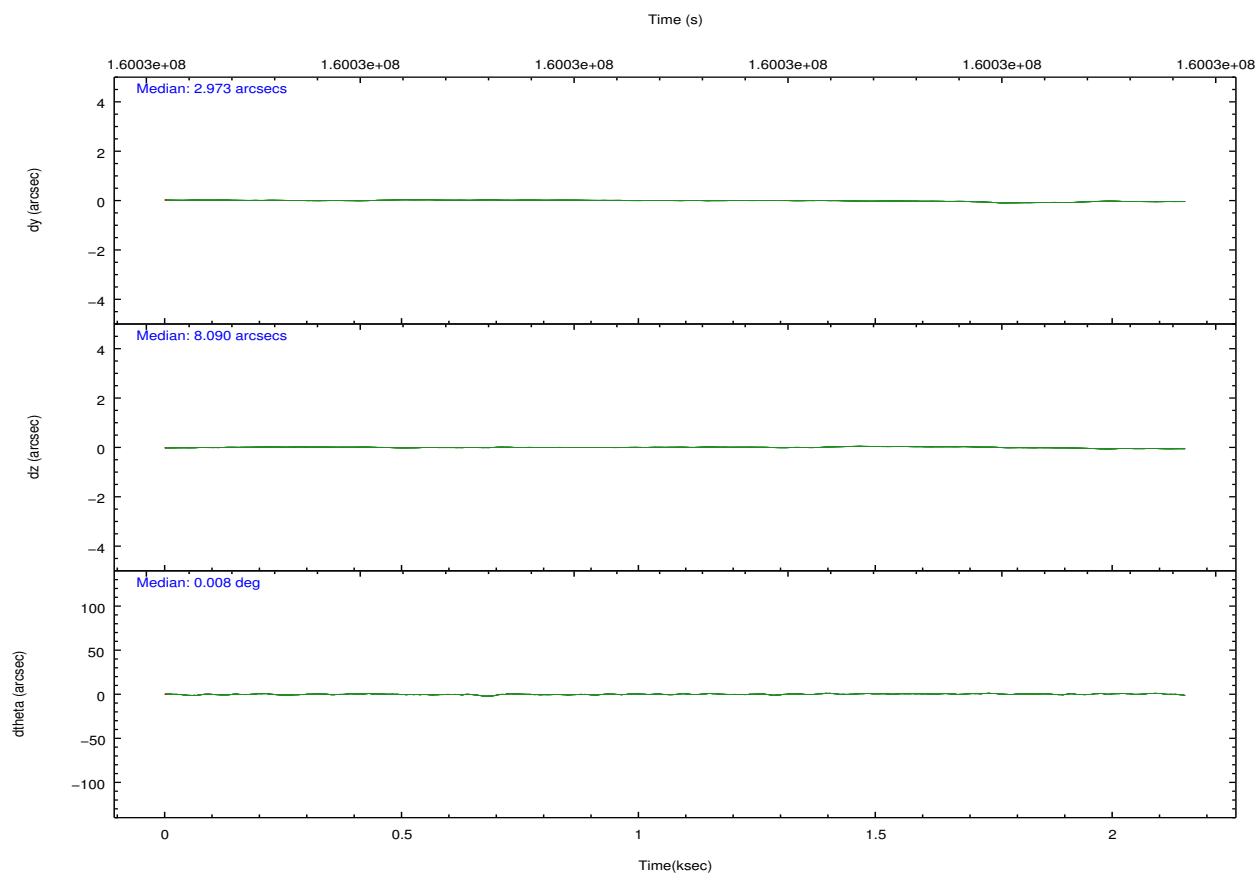
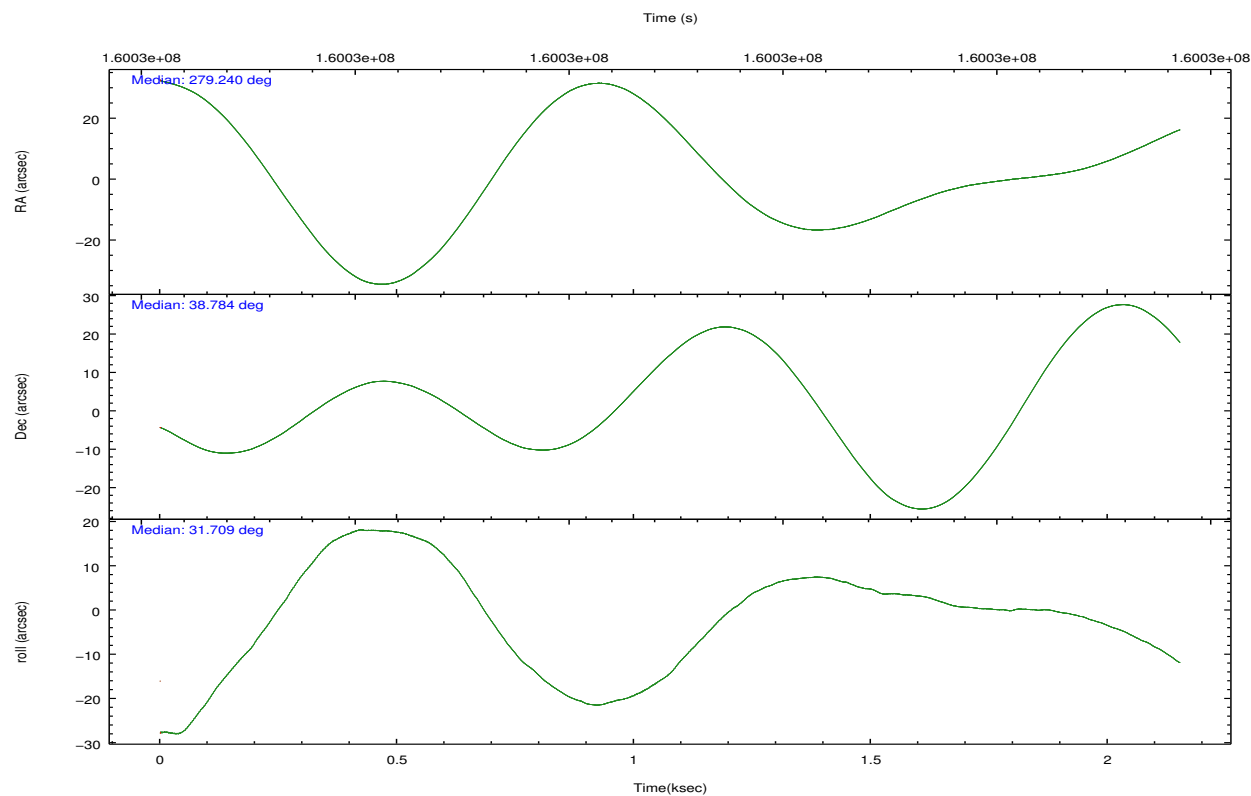
	<b>segment 0</b>
level 1 events	86814
rejected events	7041
rejected %	8%

## 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	279.224515	279.240154980205			
[deg] Pointing Dec	38.760280	38.78446108523187			
[deg] Pointing Roll	31.815140	31.70985047378855			
[s] Window start time (MET)	158976064.184000	158976064.184000			
[s] Window stop time (MET)	161654464.184000	161654464.184000			
[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)	160028809.184000	160028410.72443			
Observation start date	2003-01-27T04:25:45	2003-01-27T04:20:10			
[s] Observation end time (MET)	160030809.184000	160030943.49954			
Observation end date	2003-01-27T04:59:05	2003-01-27T05:02:23			

## 2.3 Aspect





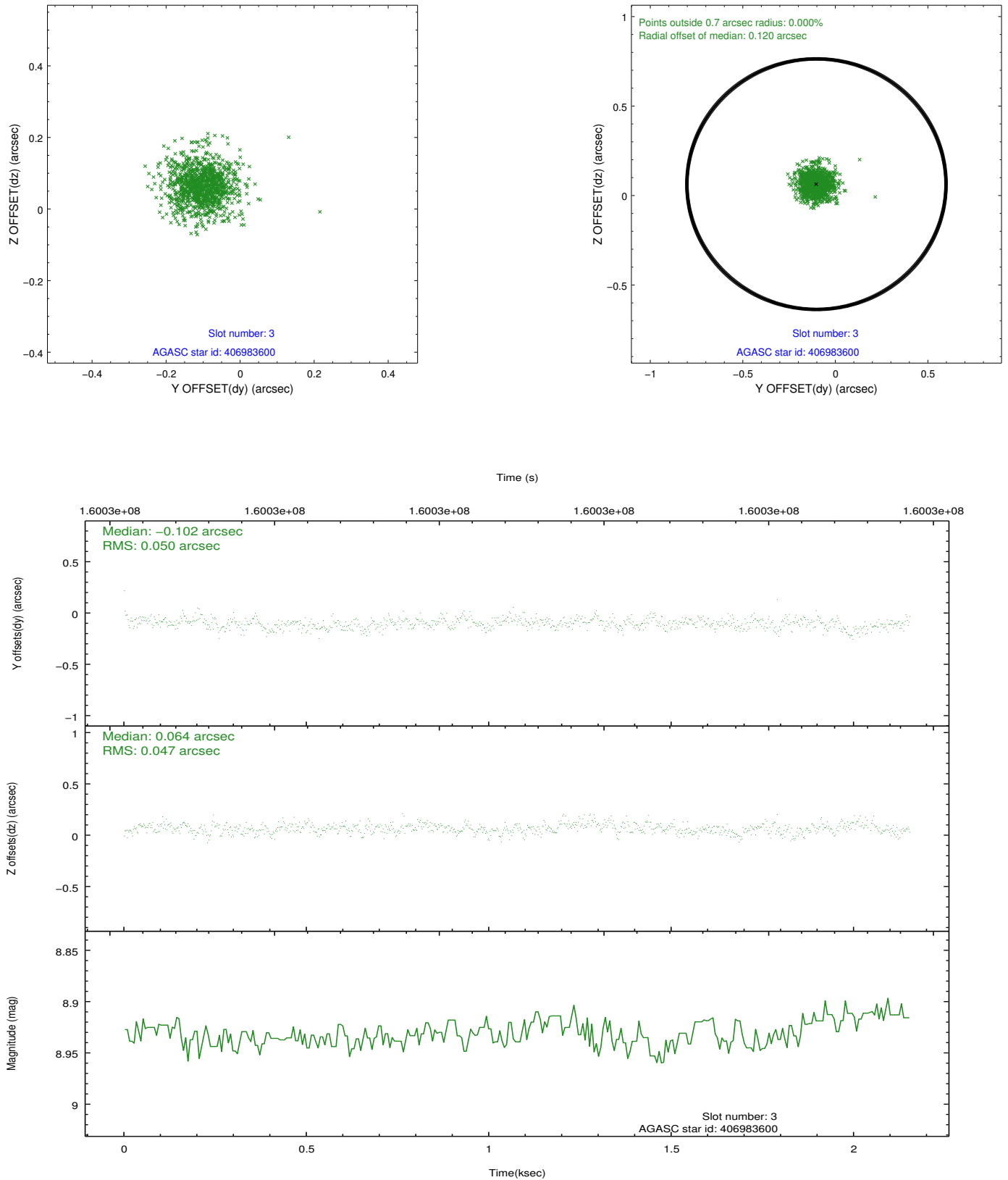
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.01	526	0.029	0.051	0.007	0.012	0.000000	0.000000	-758.40	-1295.91
1	FID	HRC-I-2	7.04	526	0.088	-0.090	0.006	0.011	0.000000	0.000000	852.85	-1300.08
2	FID	HRC-I-3	7.09	526	0.002	-0.050	0.006	0.011	0.000000	0.000000	-1185.30	1006.08
3	GUIDE	406983600	8.93	1048	-0.102	0.064	0.071	0.124	279.940957	39.020708	2201.55	-253.37
4	GUIDE	406987384	8.95	1051	0.086	0.108	0.075	0.125	278.815518	38.115336	-2204.52	-1360.46
5	GUIDE	406990192	8.99	1051	0.059	-0.149	0.072	0.115	278.510952	38.533654	-2135.20	371.06
6	GUIDE	407521232	8.66	1051	-0.019	-0.081	0.066	0.116	279.628883	39.431715	2229.35	1463.59
7	GUIDE	406993992	7.62	1050	-0.015	0.057	0.078	0.122	279.053714	38.034587	-1786.02	-1963.20

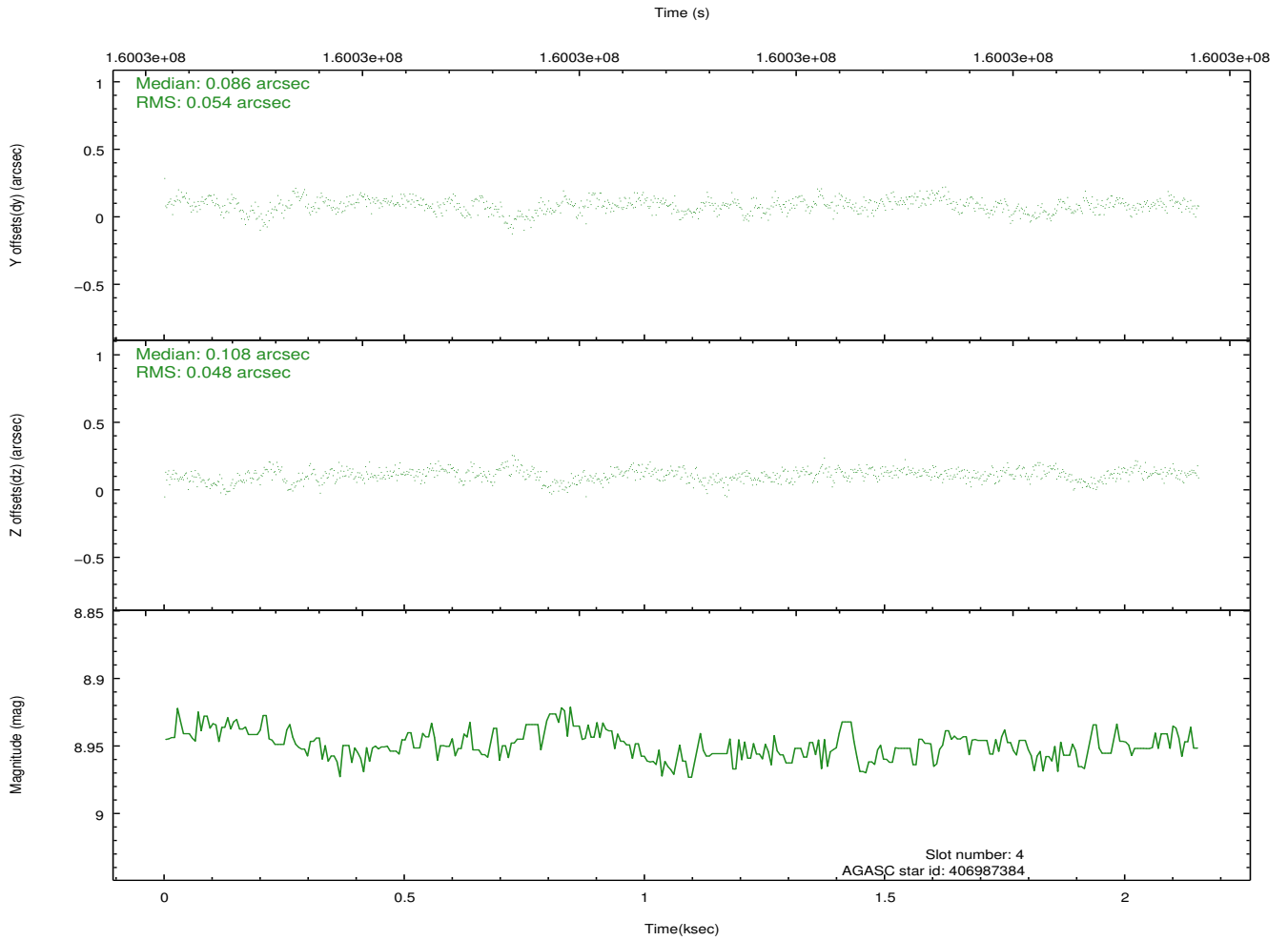
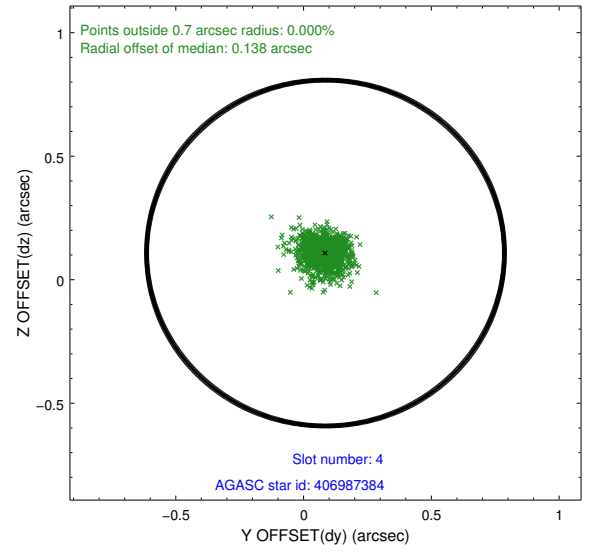
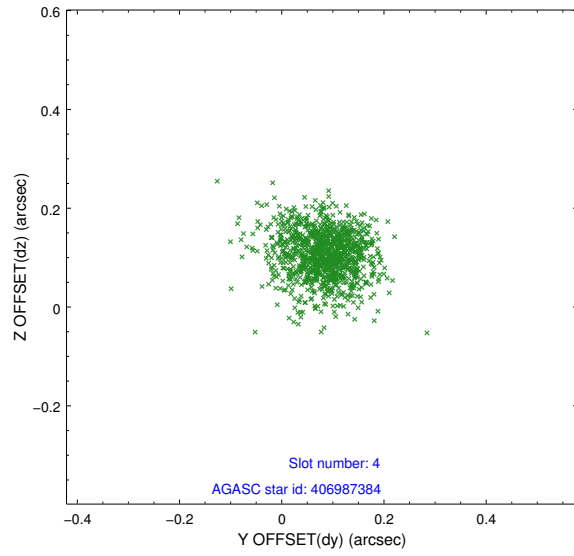


## 2.4 Star Slots

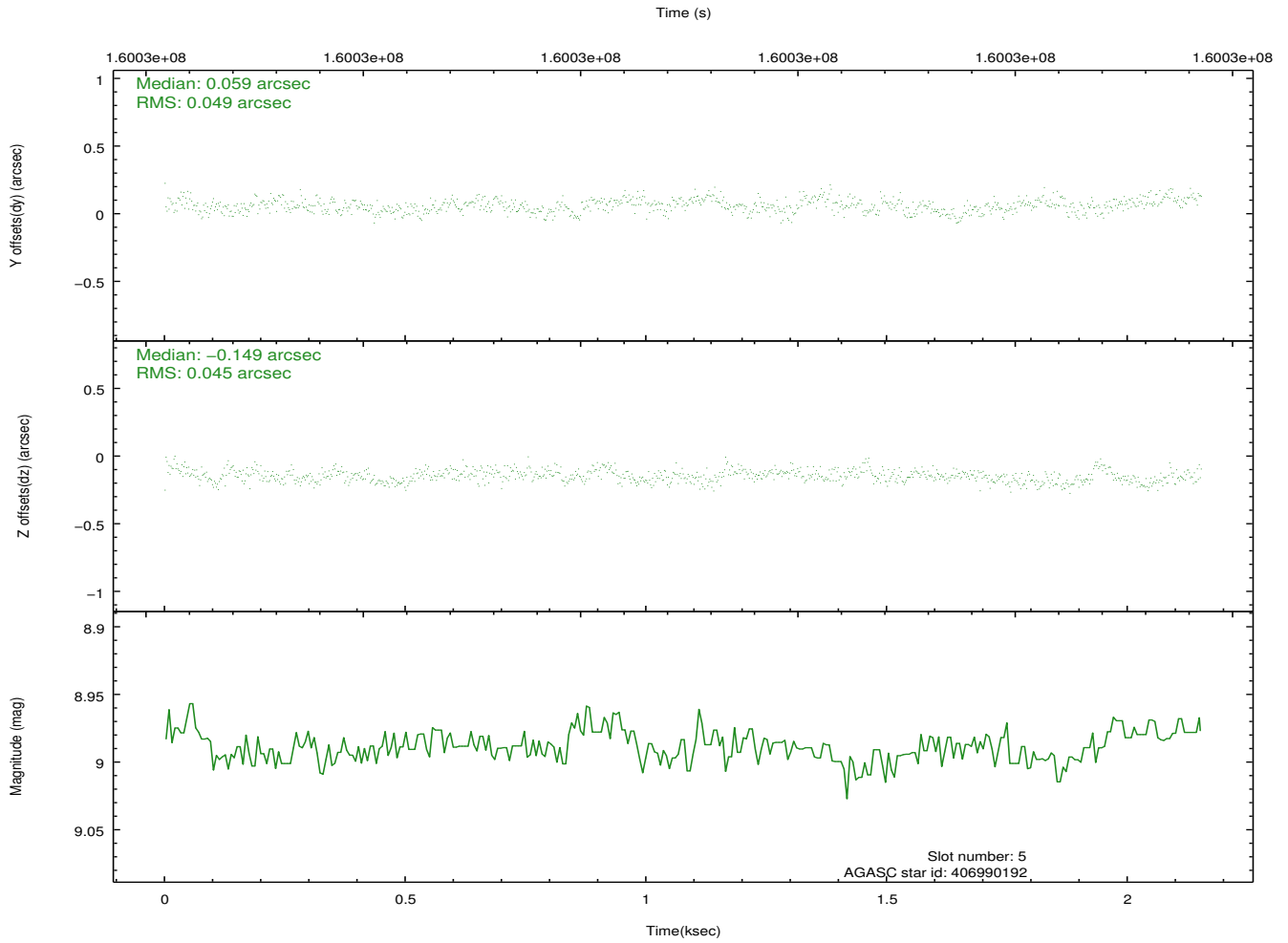
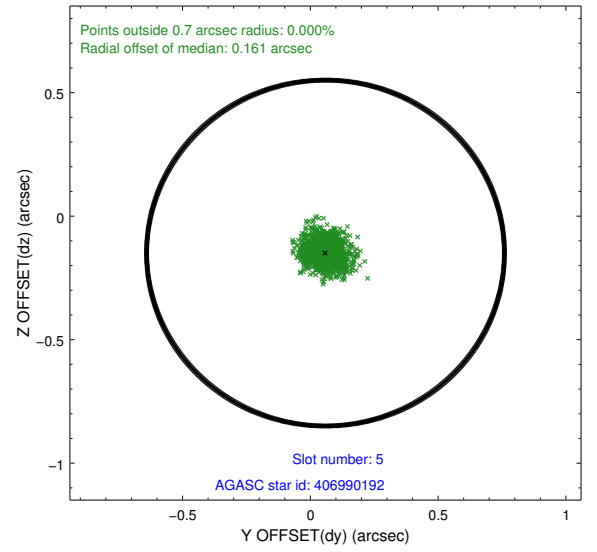
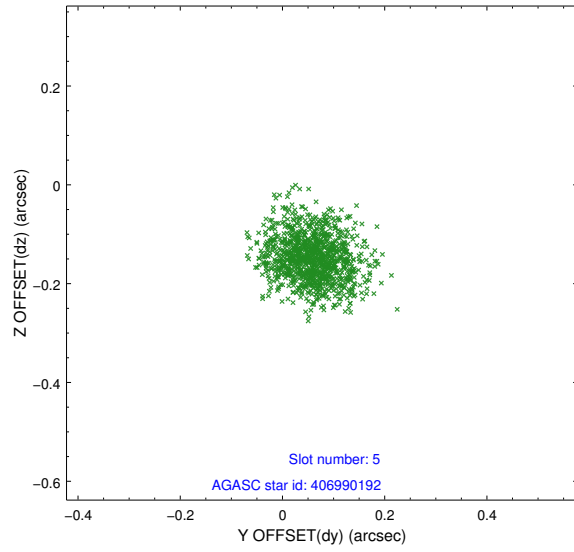
### 2.4.1 Slot 3



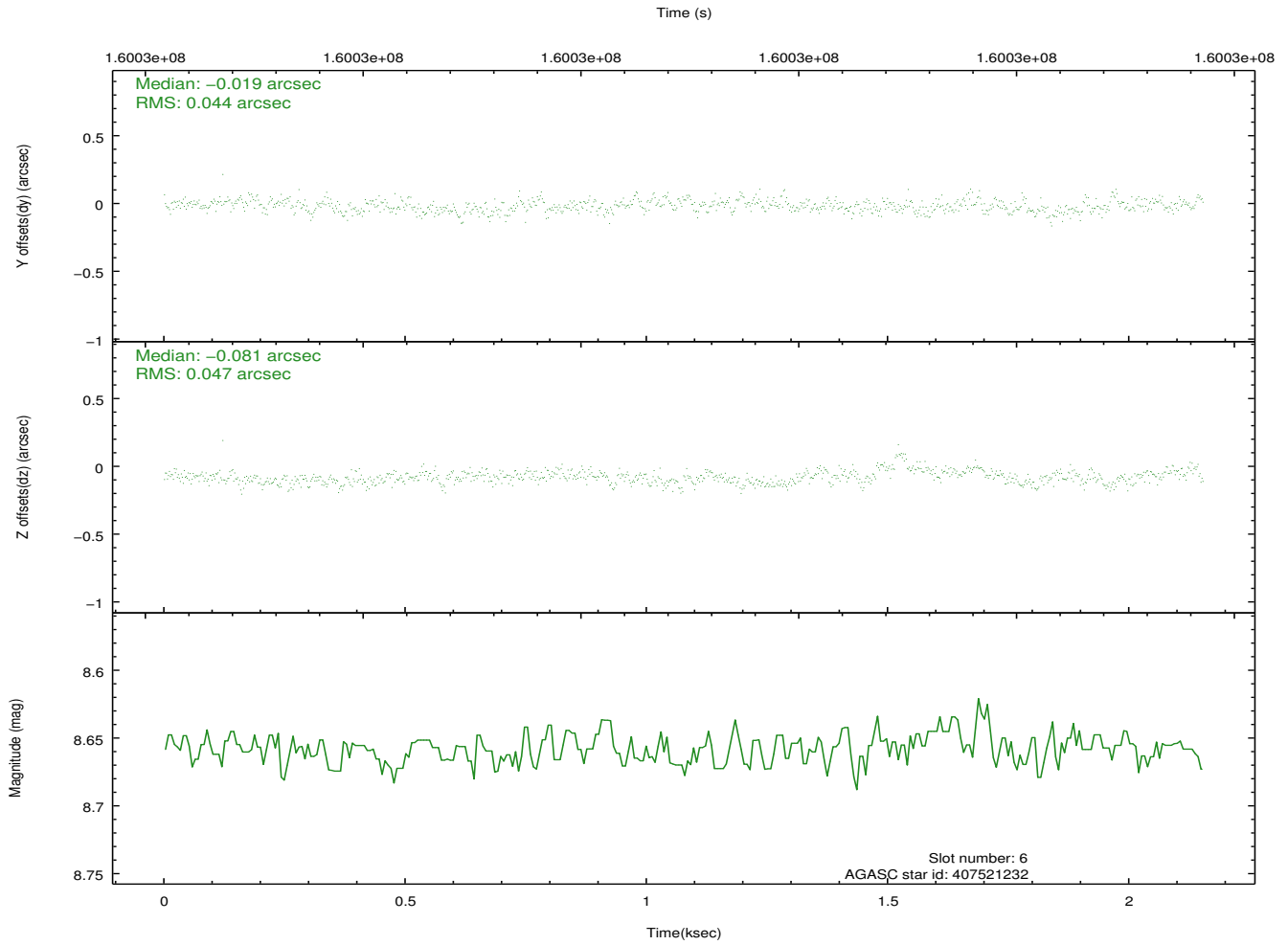
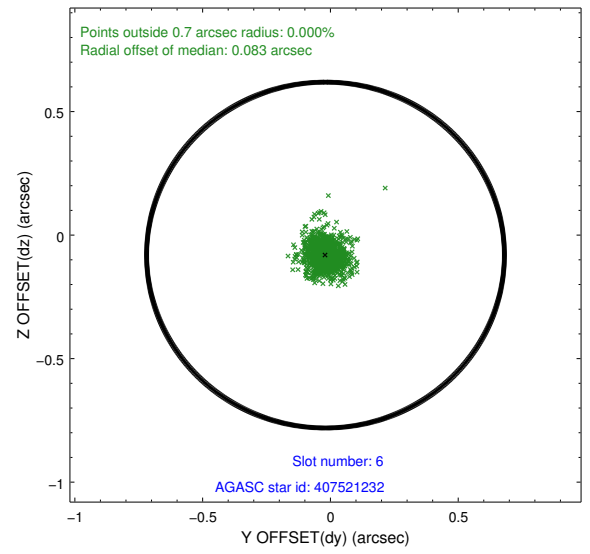
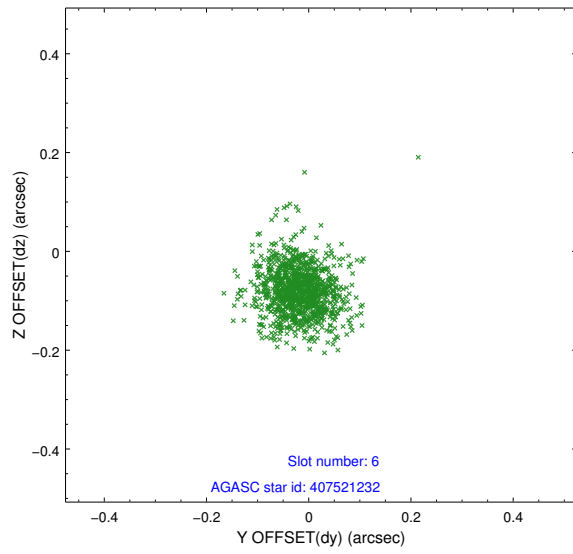
## 2.4.2 Slot 4



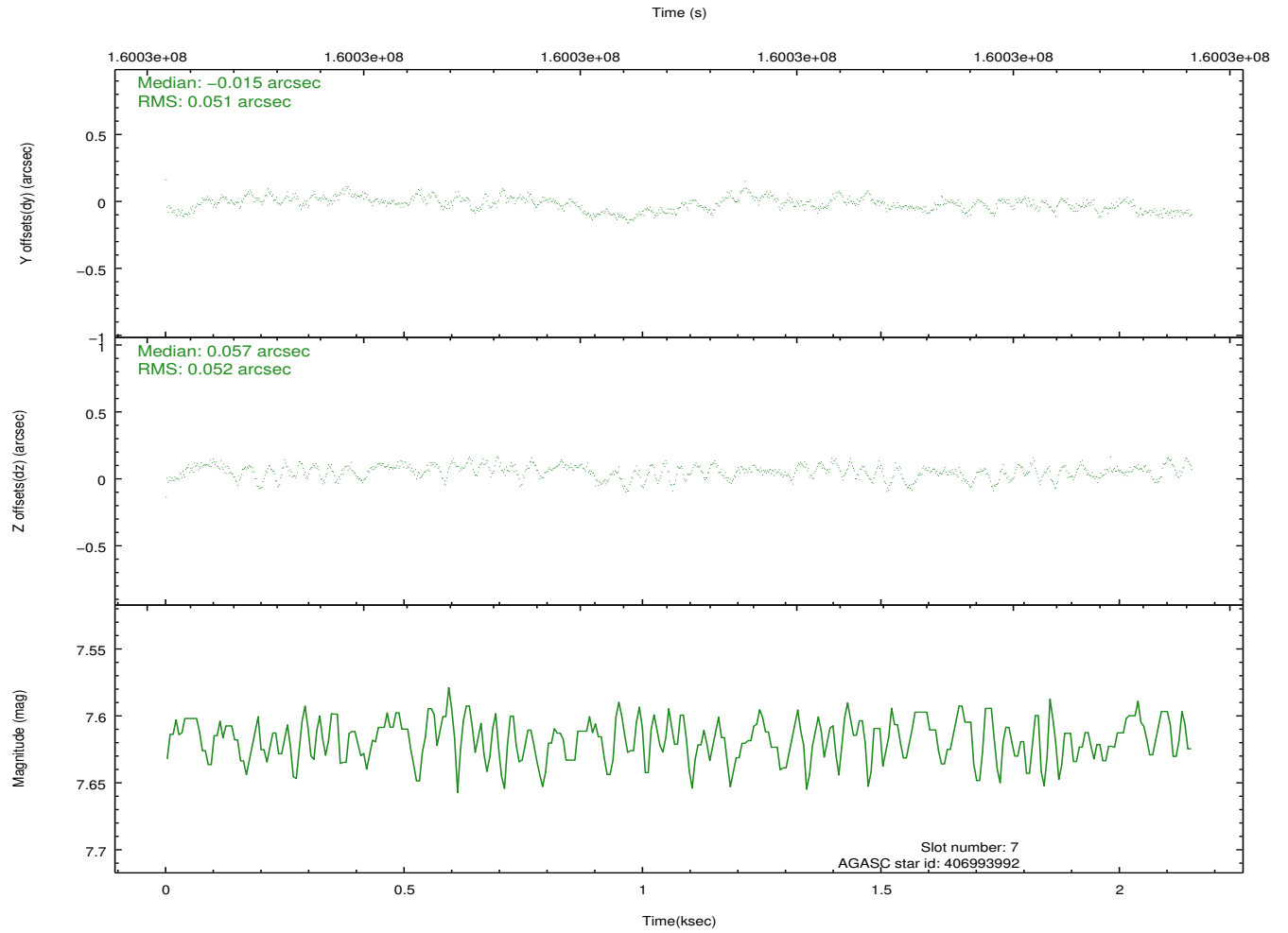
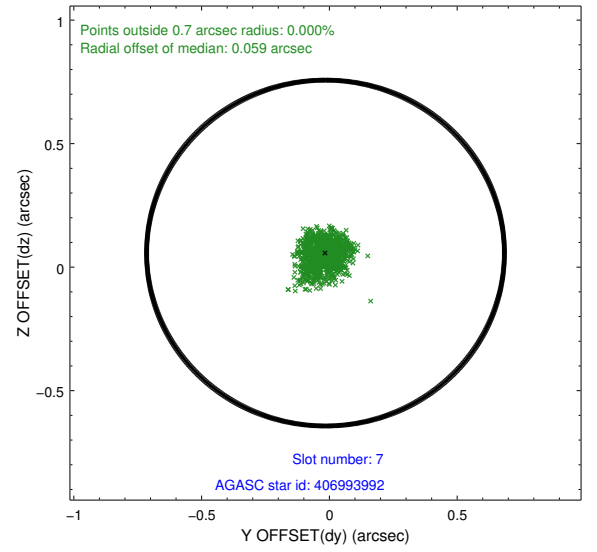
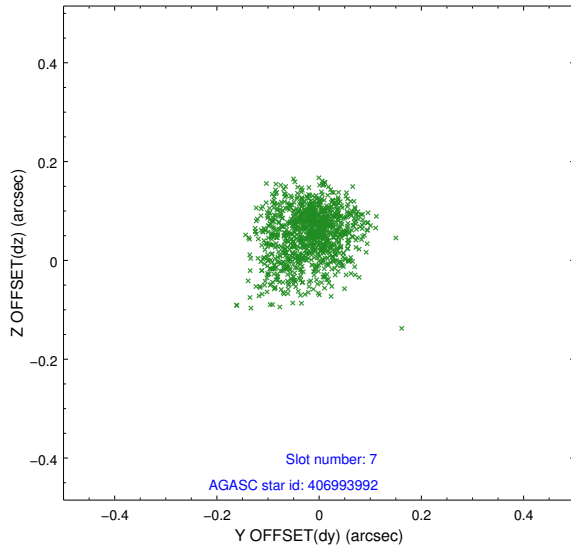
### 2.4.3 Slot 5



## 2.4.4 Slot 6

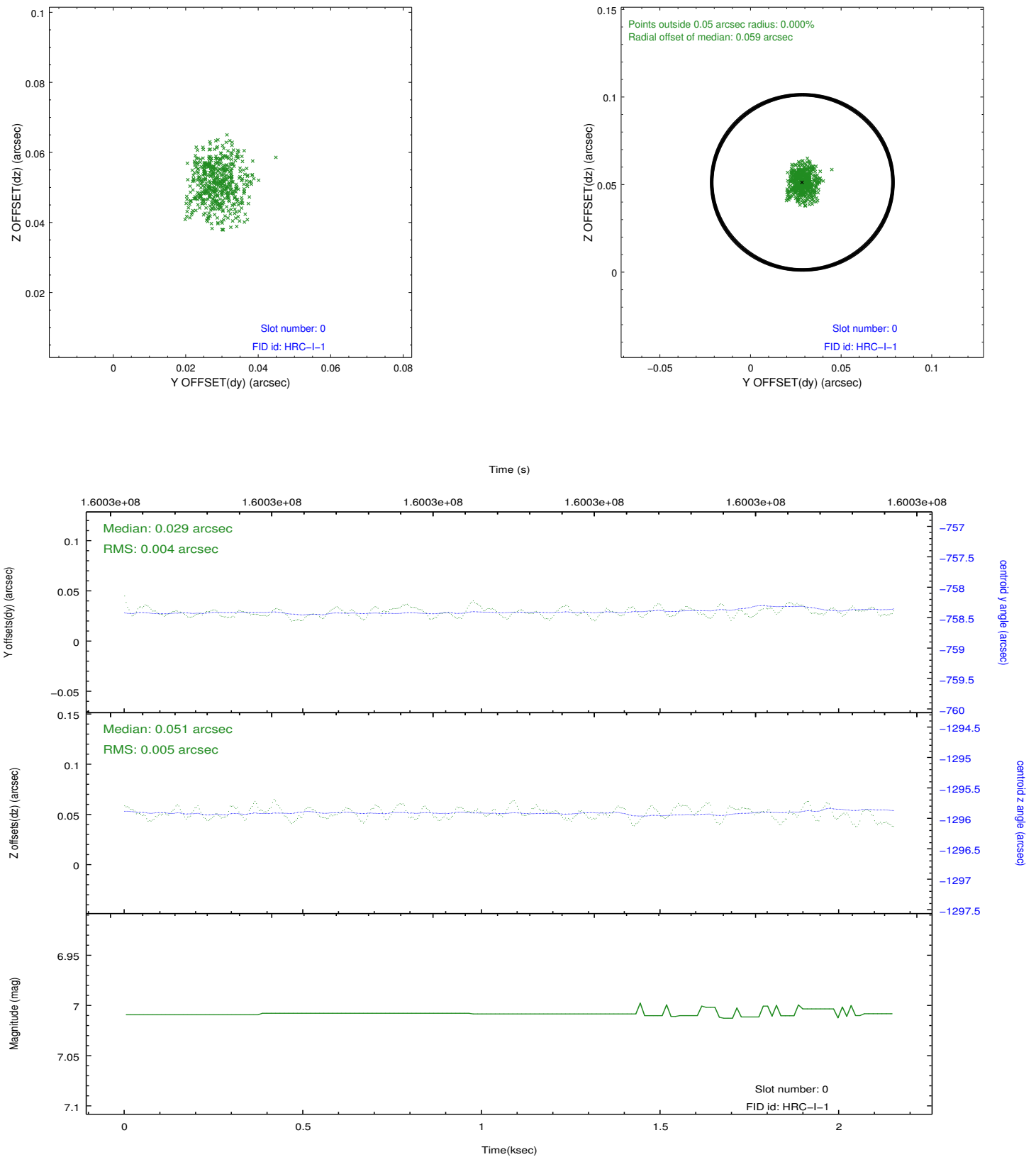


## 2.4.5 Slot 7

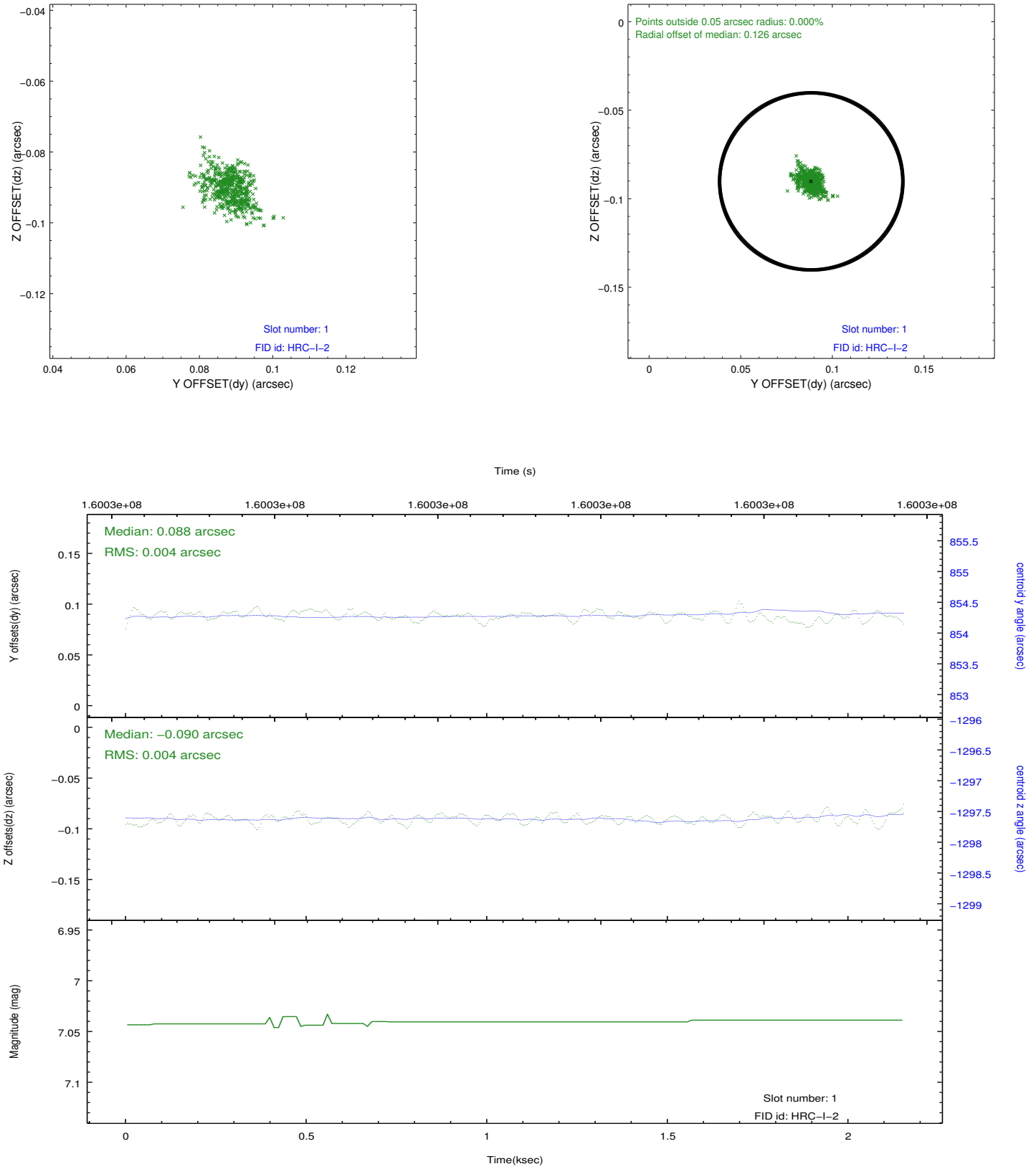


## 2.5 FID Slots

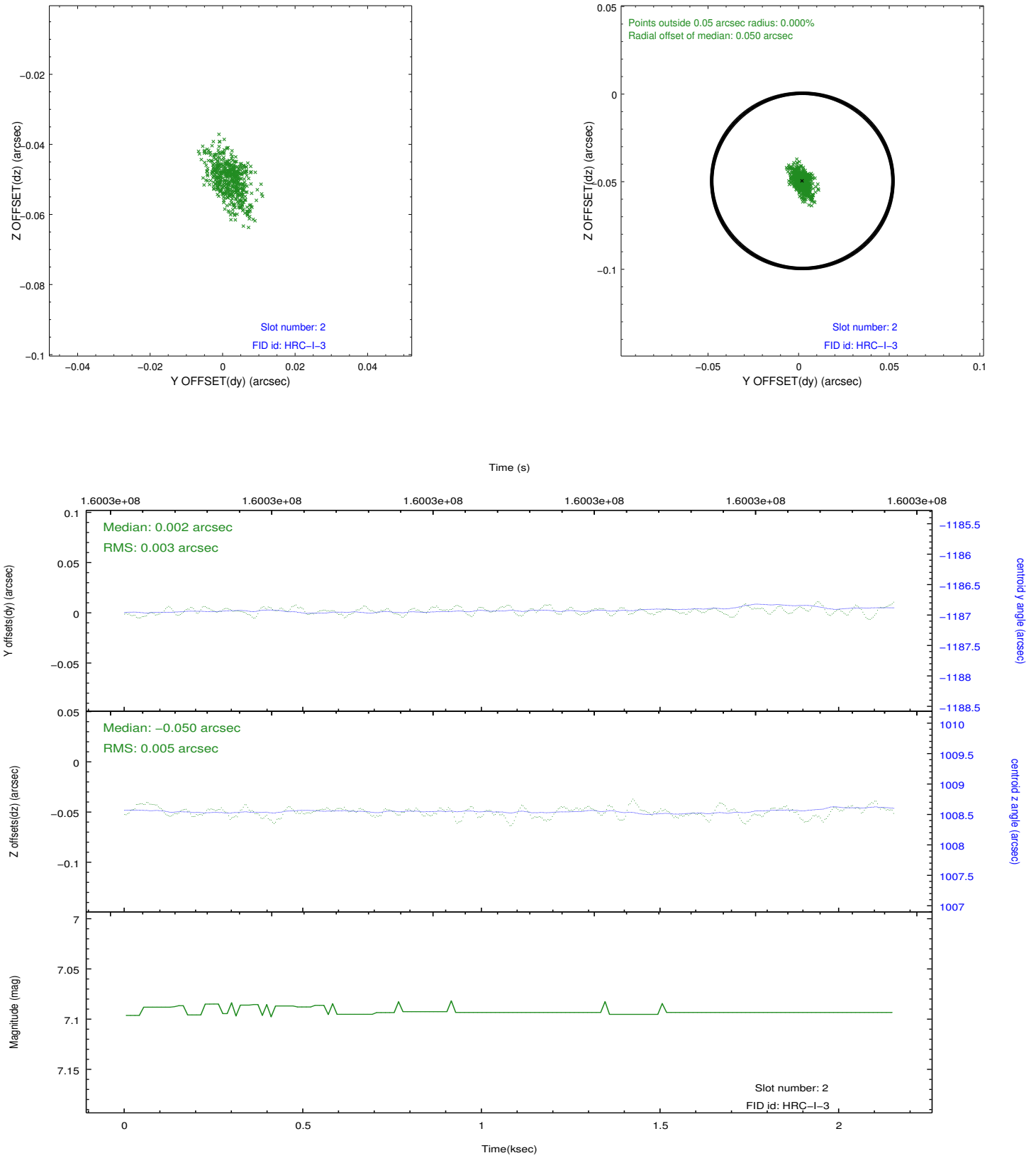
### 2.5.1 Slot 0



## 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)	2012.11.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.983

### A.2 Comments

Window constraint met.