

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 1391 - L2 Version 4

Chandra X-Ray Center

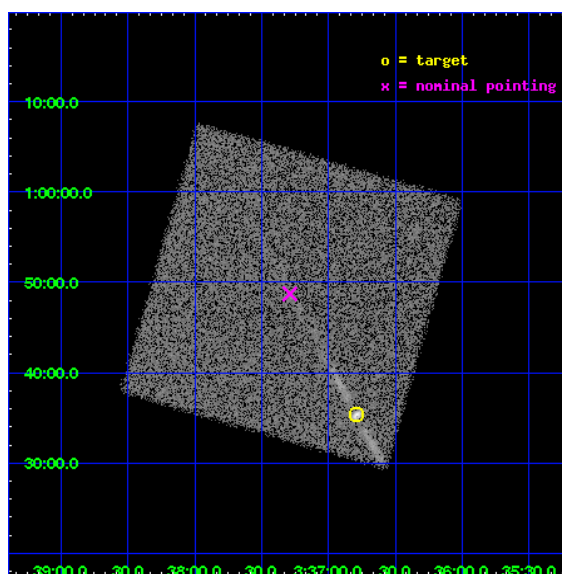
L2 Processing Date : Nov 20 2009

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# 1 Front

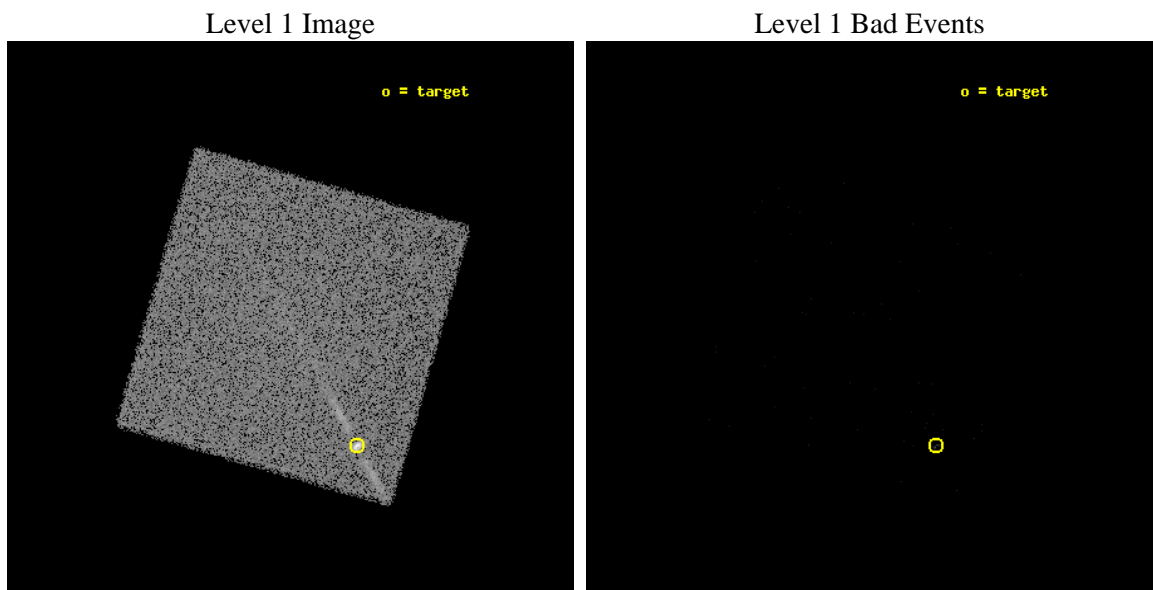
seq_num	280341	Sequence number
obs_id	1391	Observation id
title	&#160	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HR1099	Source name
ra_targ	54.197083	Observer's specified target RA
dec_targ	0.589972	Observer's specified target Dec
ra_nom	54.321989941936	Nominal RA
dec_nom	0.8122183368539	Nominal Dec
roll_nom	61.042625600595	Nominal Roll
revision	4	Processing version of data
ontime	2275.756332092	[s]
livetime	2261.2798970604	Ontime multiplied by DTCOR
l2events	69060	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	Scheduled observation exposure time
ascdsver	8.1.1	Processing system revision	ontime	2275.756332092	[s]
caldbver	4.1.4	&#160	l1events	108232	Number of level 1 events
date	2009-11-20T16:30:39	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

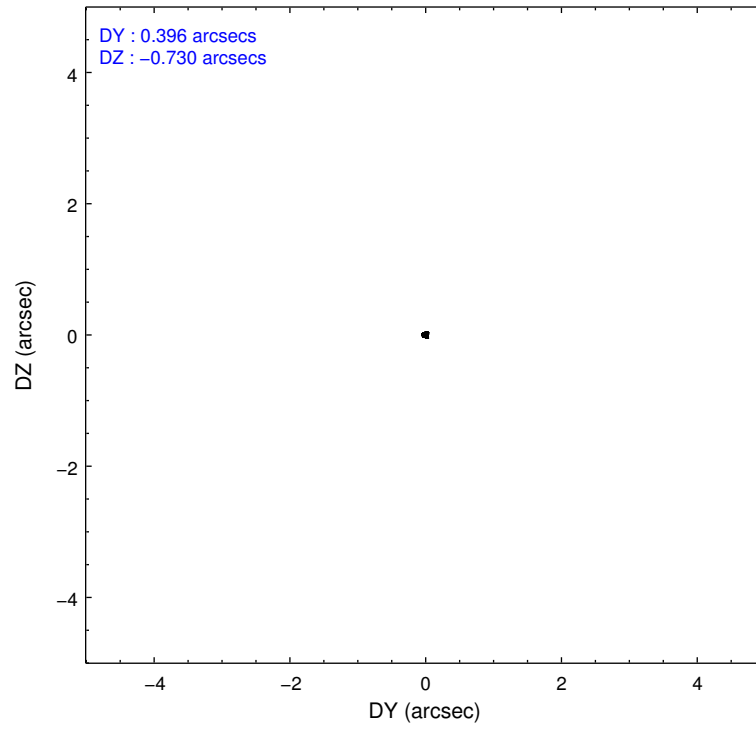
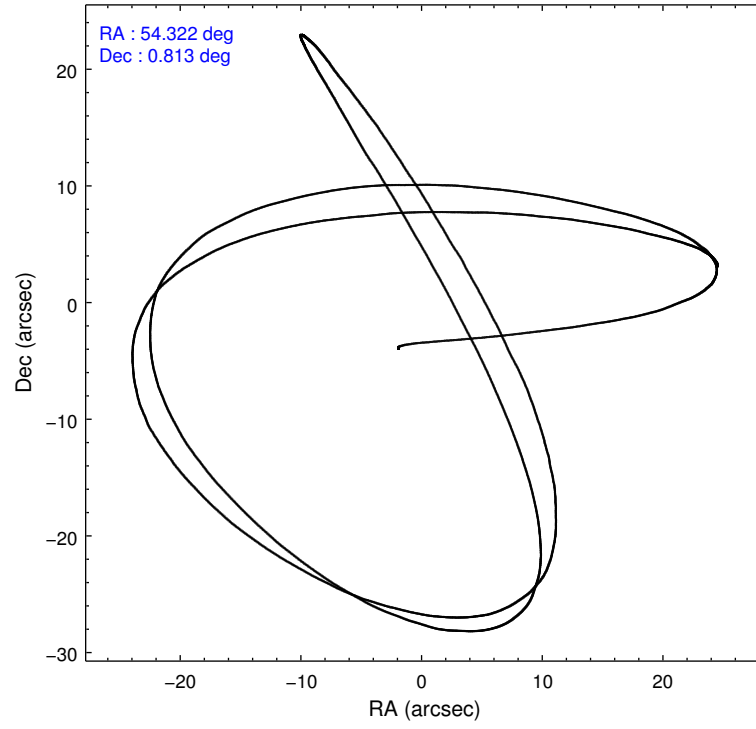
#### Level 1 Events

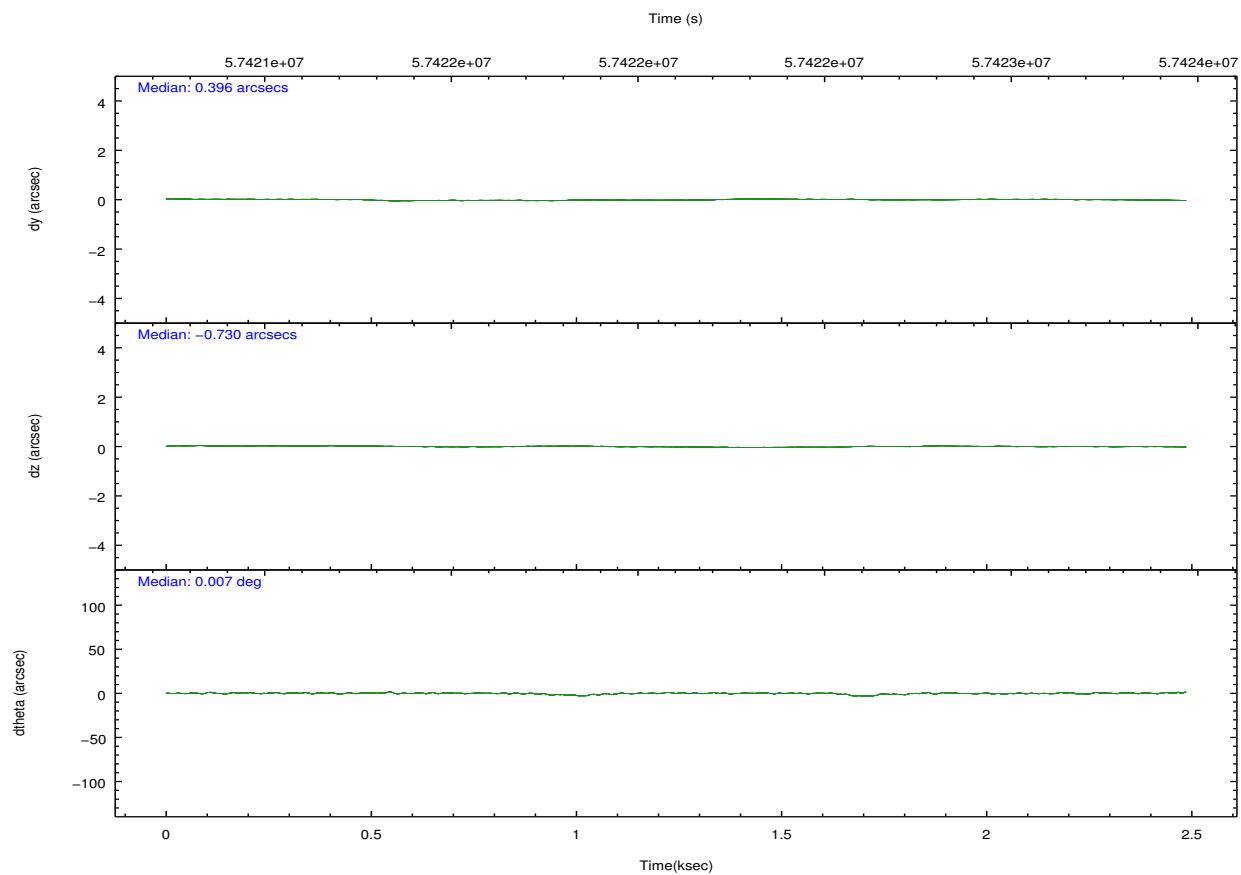
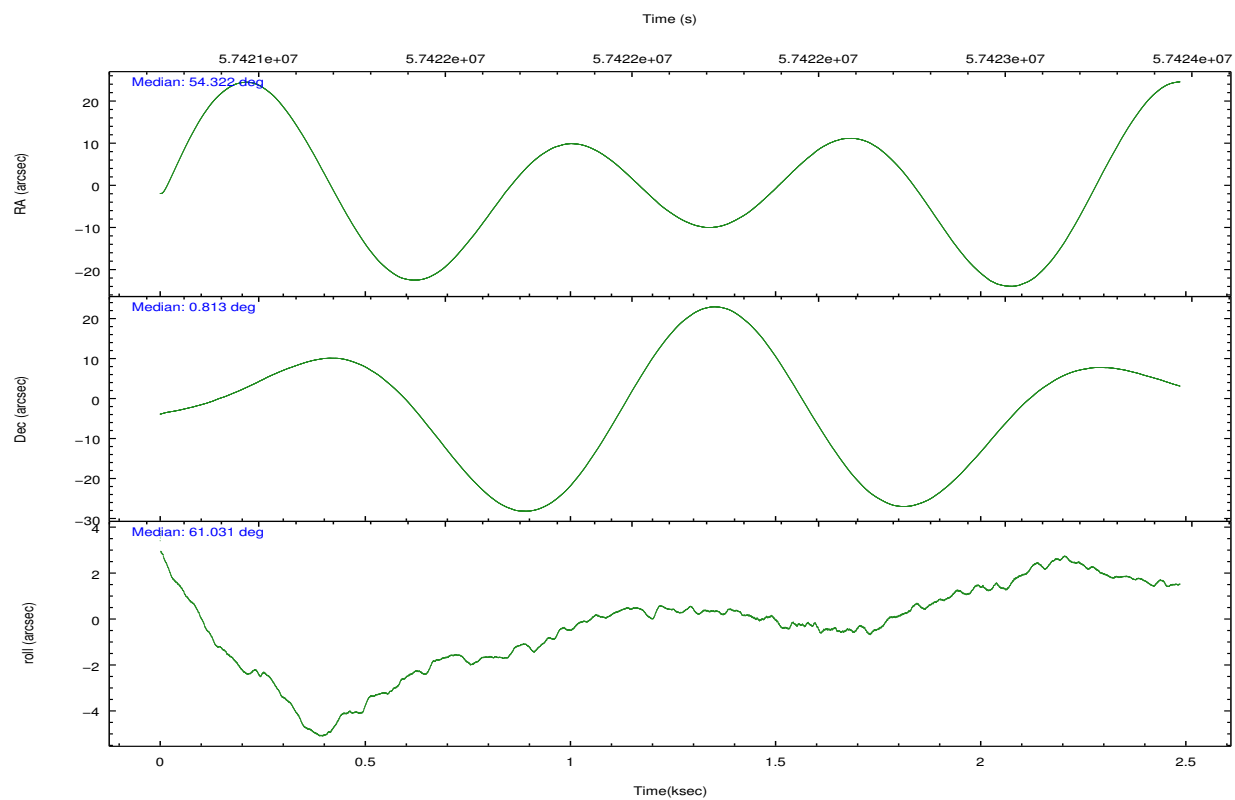
	<b>segment 0</b>
level 1 events	108232
rejected events	2440
rejected %	2%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	54.322155	54.32198994193646			
Pointing Dec	0.784431	0.8122183368539044			
Pointing Roll	61.138105	61.04262560059524			
SIM focus pos (mm)	-1.040293	-1.038866356238299			
SIM defocus (mm)	0	0.001426264420575141			
SIM translation stage pos (mm)	126.985494	126.9854943052878			
SIM translation stage offset (mm)	0	-5.413686238853188e-06			
Observation start time	57421345.184000	57420679.168527			
Observation start date	1999-10-27T14:21:21	1999-10-27T14:11:19			
Observation end time	57423345.184000	57423479.468628			
Observation end date	1999-10-27T14:54:41	1999-10-27T14:57:59			

## 2.3 Aspect





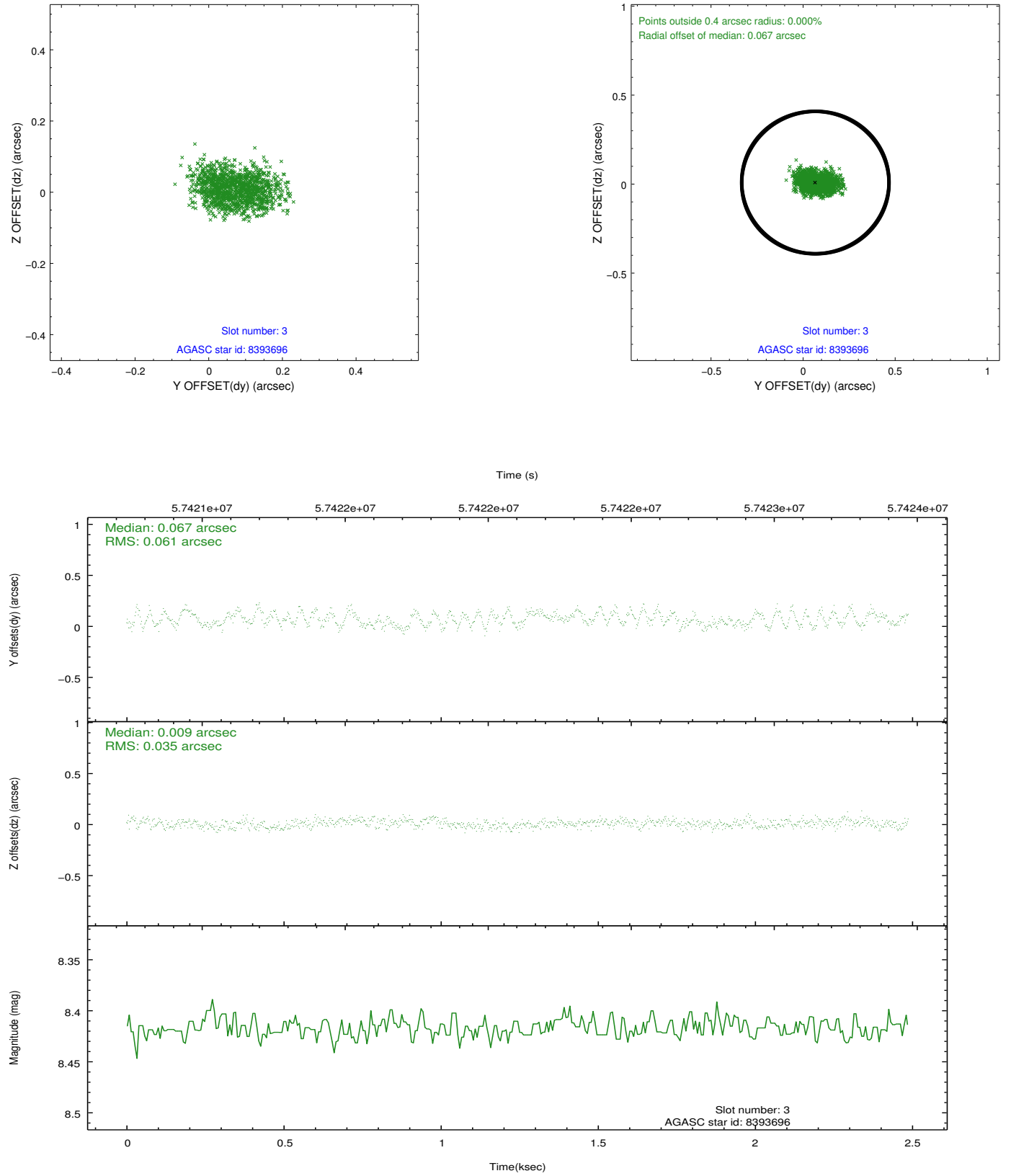
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.95	1214	0.031	0.004	0.007	0.038	0.000000	0.000000	-755.74	-1286.96
1	FID	HRC-I-3	7.04	1214	0.050	-0.063	0.007	0.052	0.000000	0.000000	-1184.88	1016.46
2	FID	HRC-I-4	6.97	1214	0.033	-0.030	0.006	0.018	0.000000	0.000000	1286.02	1016.06
3	GUIDE	8393696	8.42	1214	0.067	0.009	0.076	0.120	53.645666	0.680479	-1504.64	1954.43
4	GUIDE	8398800	8.69	1213	-0.064	-0.020	0.065	0.105	54.242352	0.922024	292.51	494.85
5	GUIDE	8390744	9.04	1214	0.011	-0.161	0.074	0.115	53.677290	0.926294	-674.48	2282.14
6	GUIDE	8395104	8.66	1213	-0.082	0.059	0.060	0.099	54.744893	0.796520	771.10	-1307.03
7	GUIDE	8395504	9.74	1212	0.059	0.115	0.094	0.153	54.466573	0.973564	846.74	-124.90

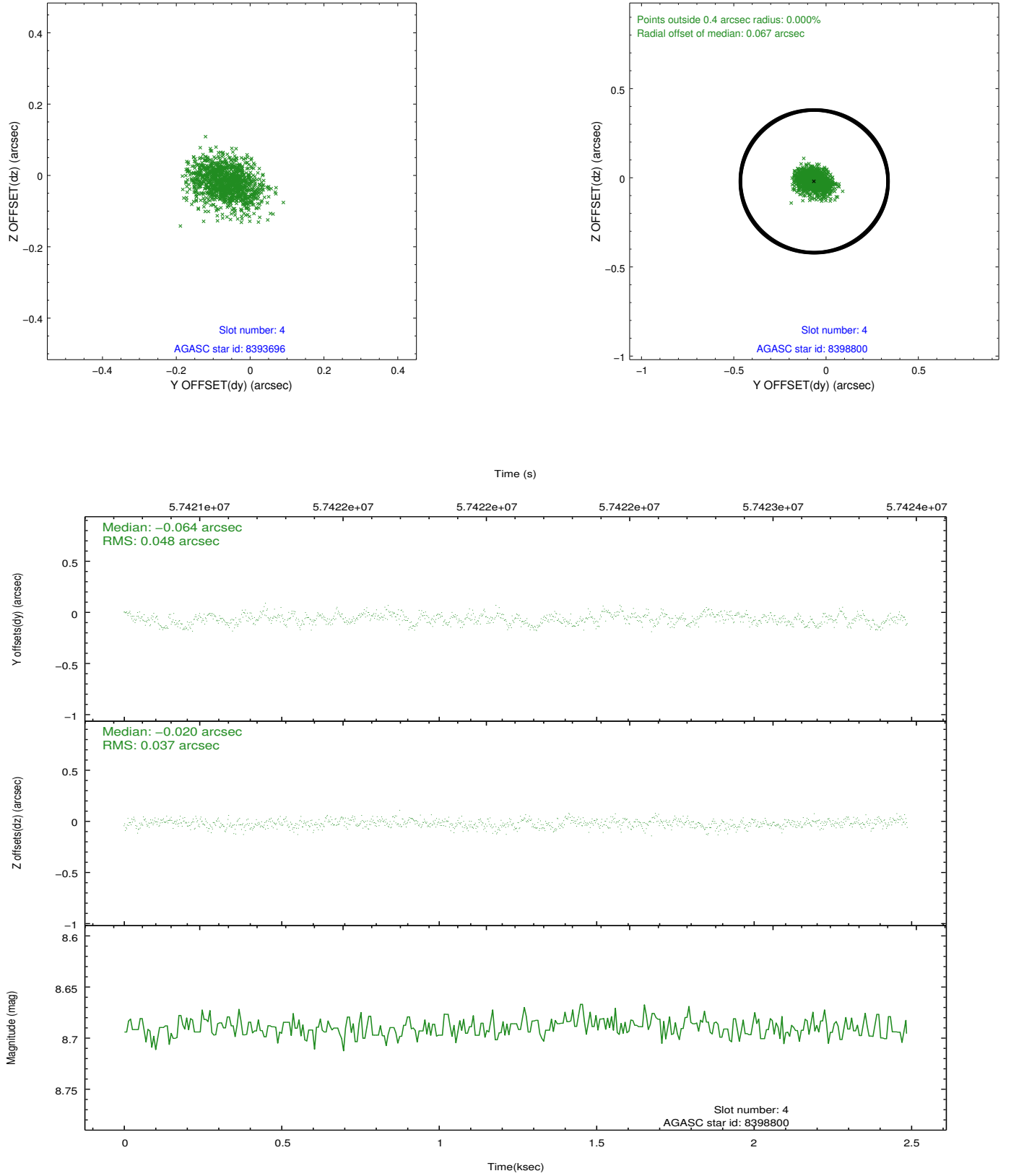


## 2.4 Star Slots

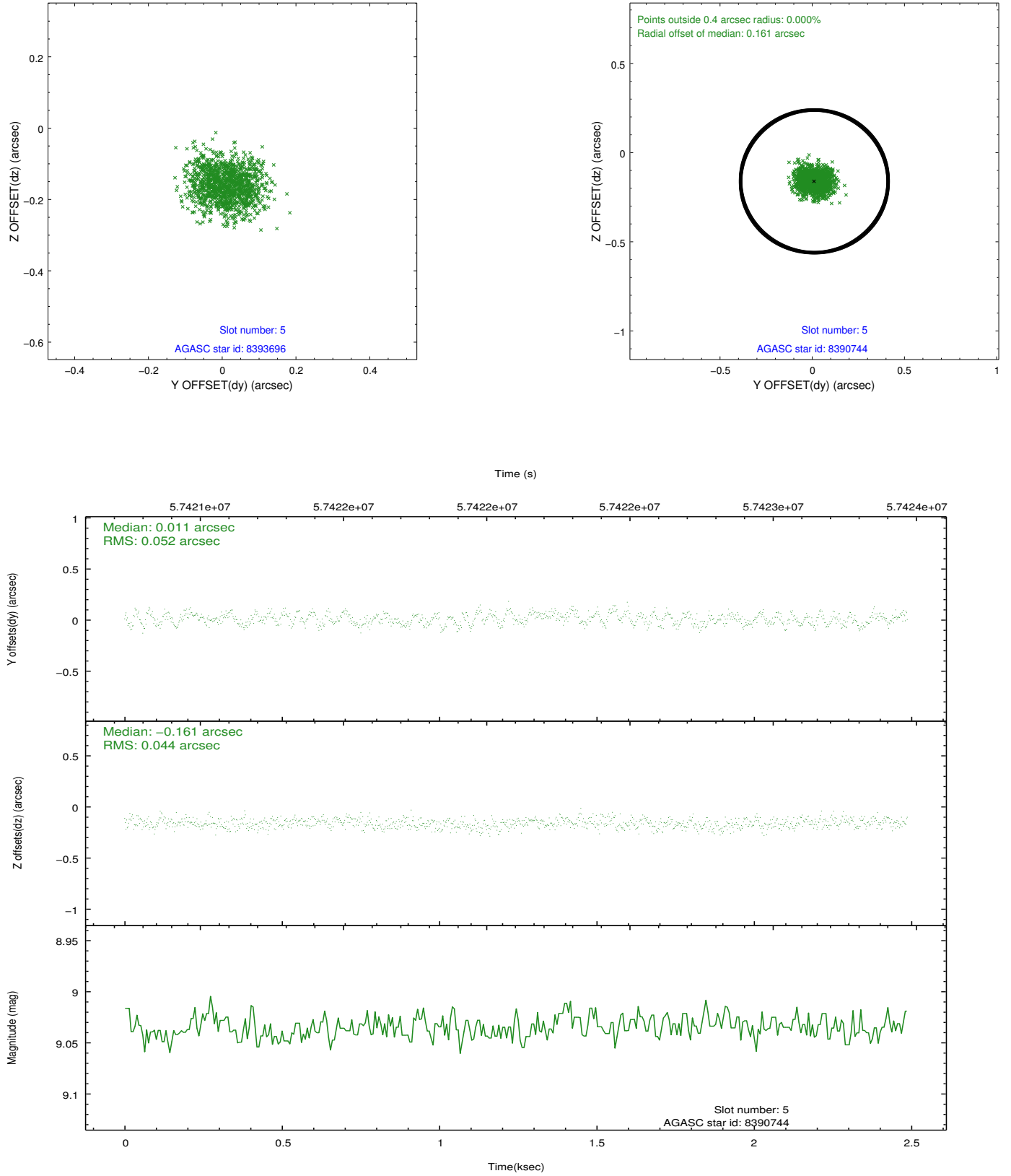
### 2.4.1 Slot 3



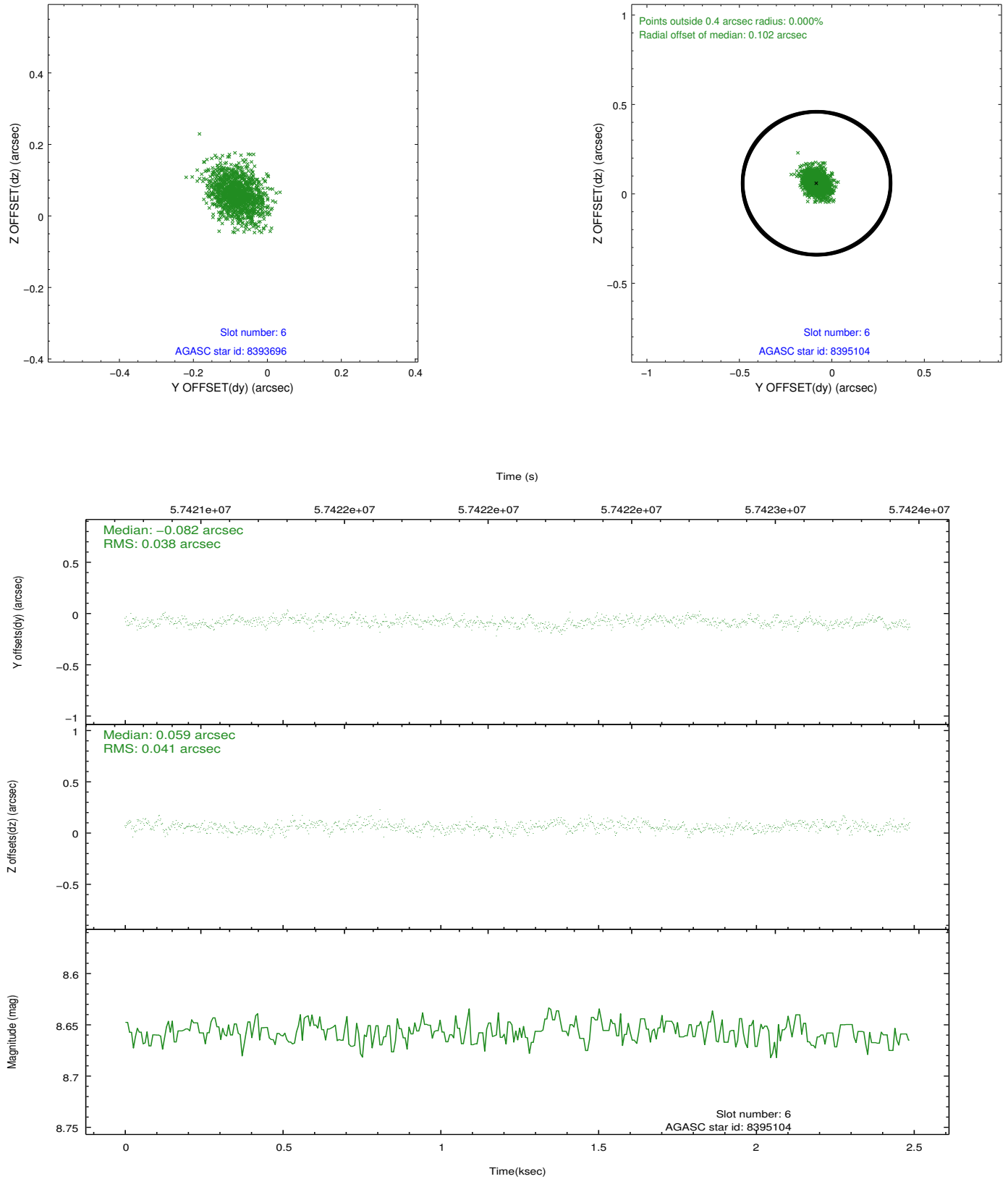
## 2.4.2 Slot 4



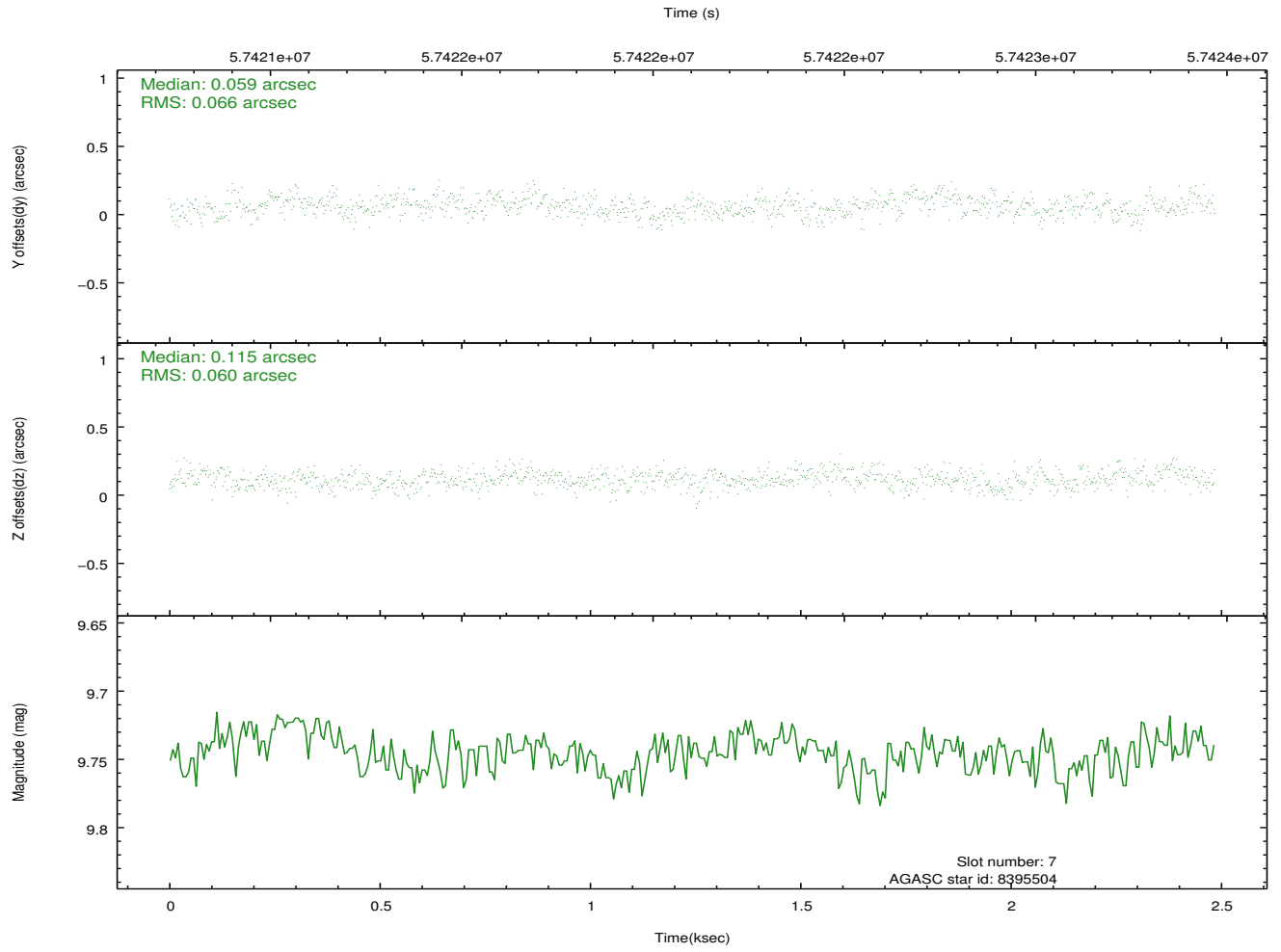
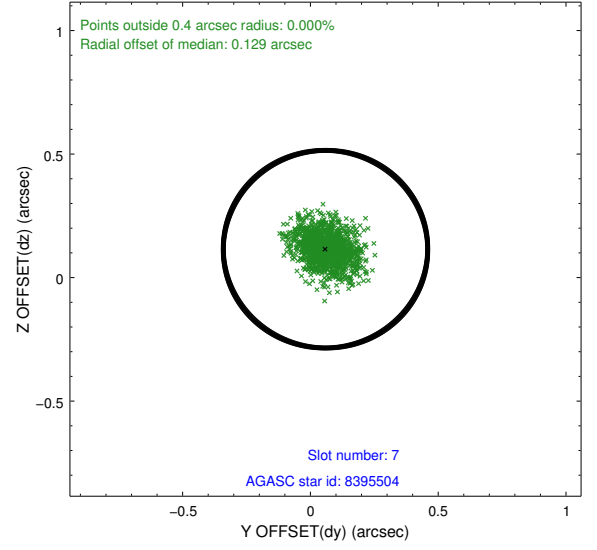
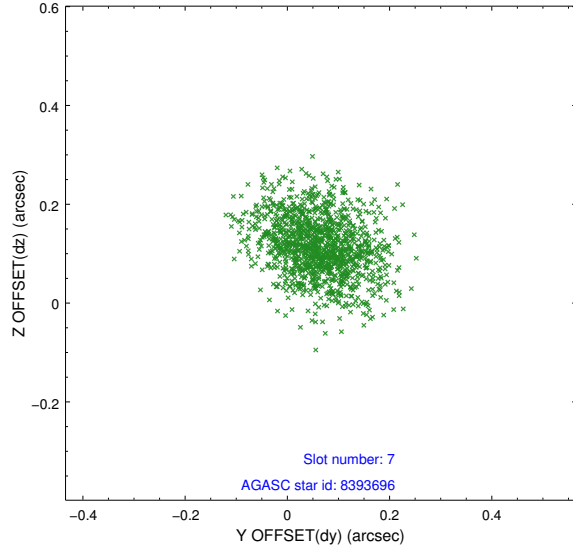
### 2.4.3 Slot 5



## 2.4.4 Slot 6

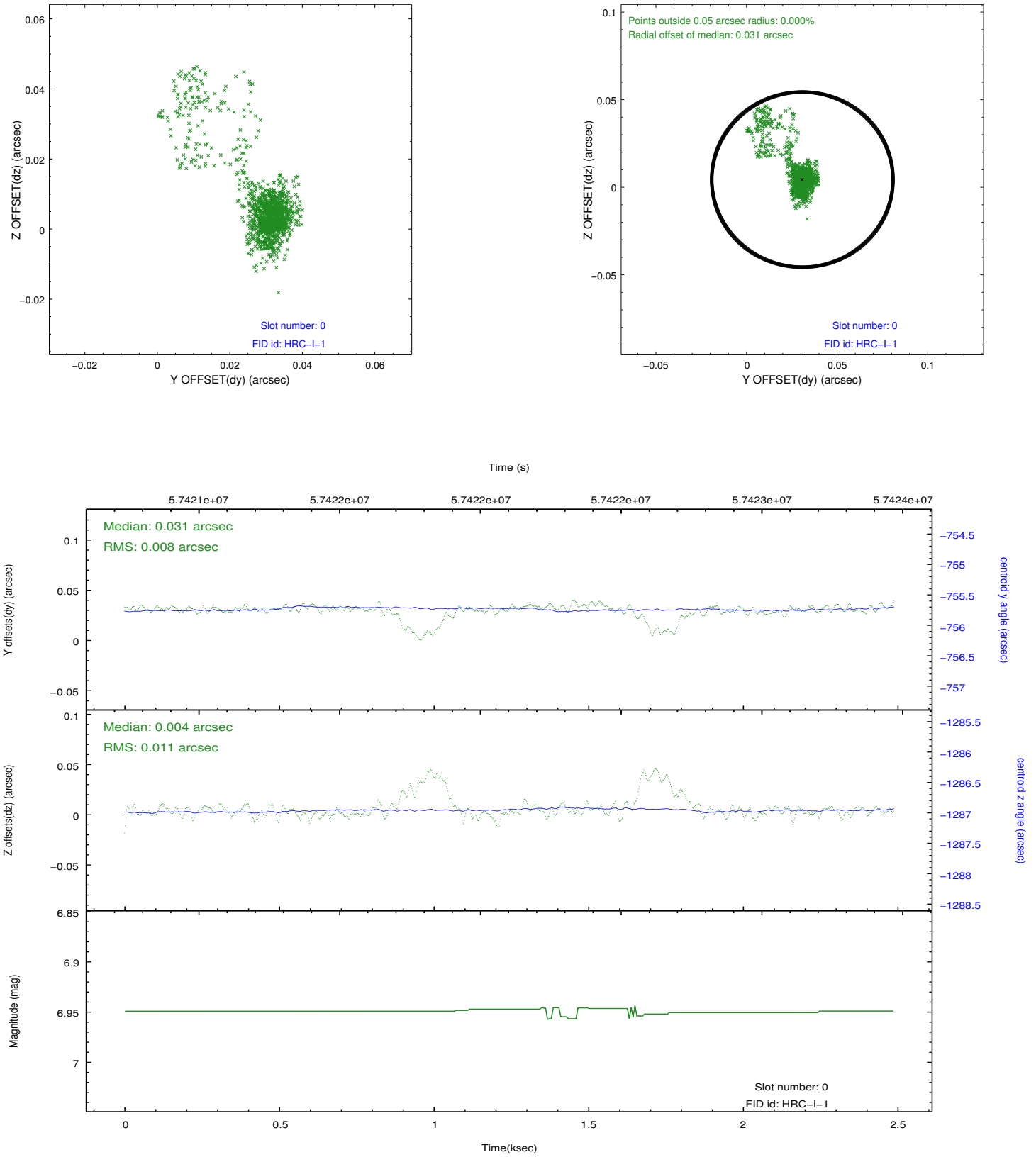


## 2.4.5 Slot 7

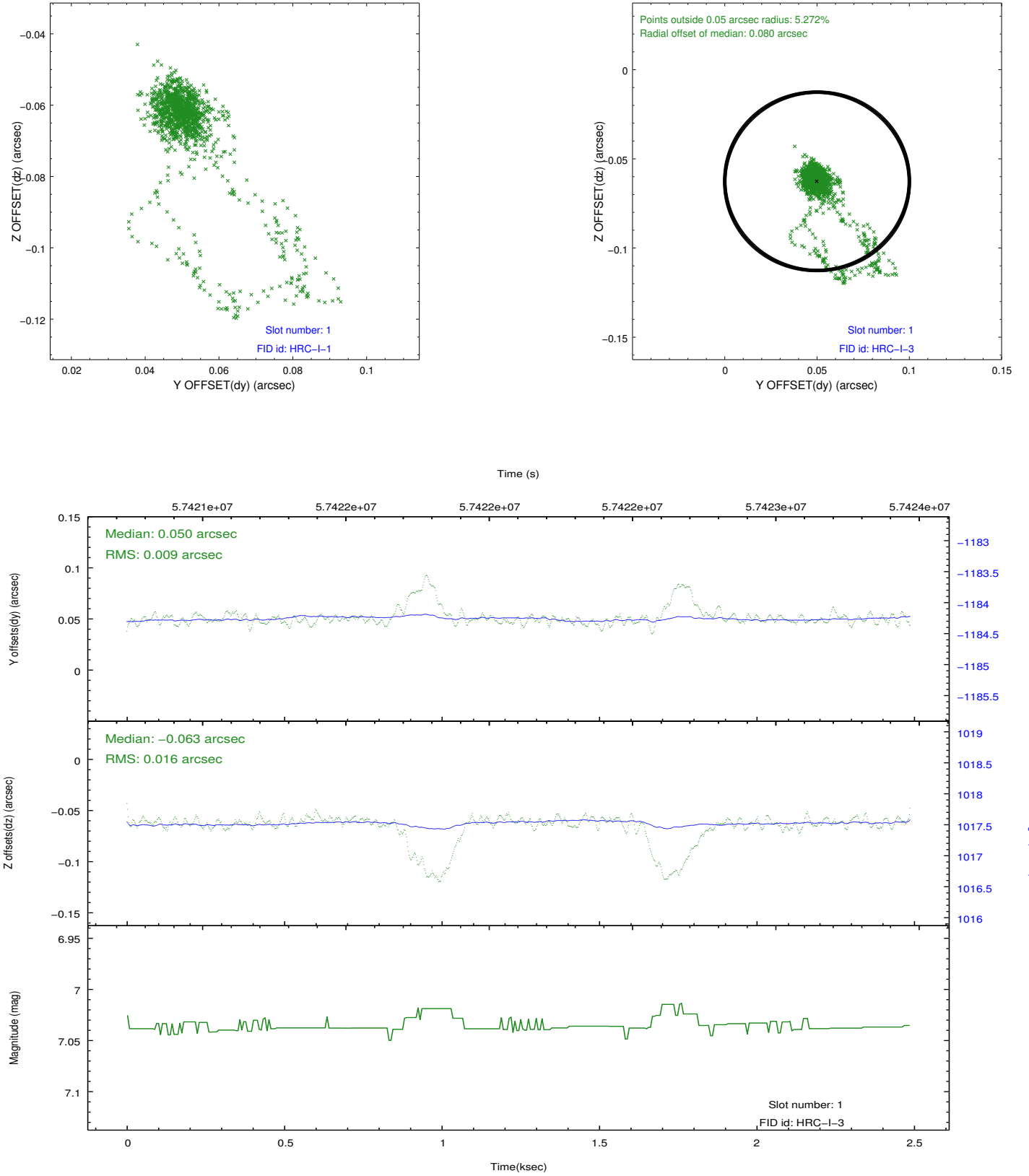


## 2.5 FID Slots

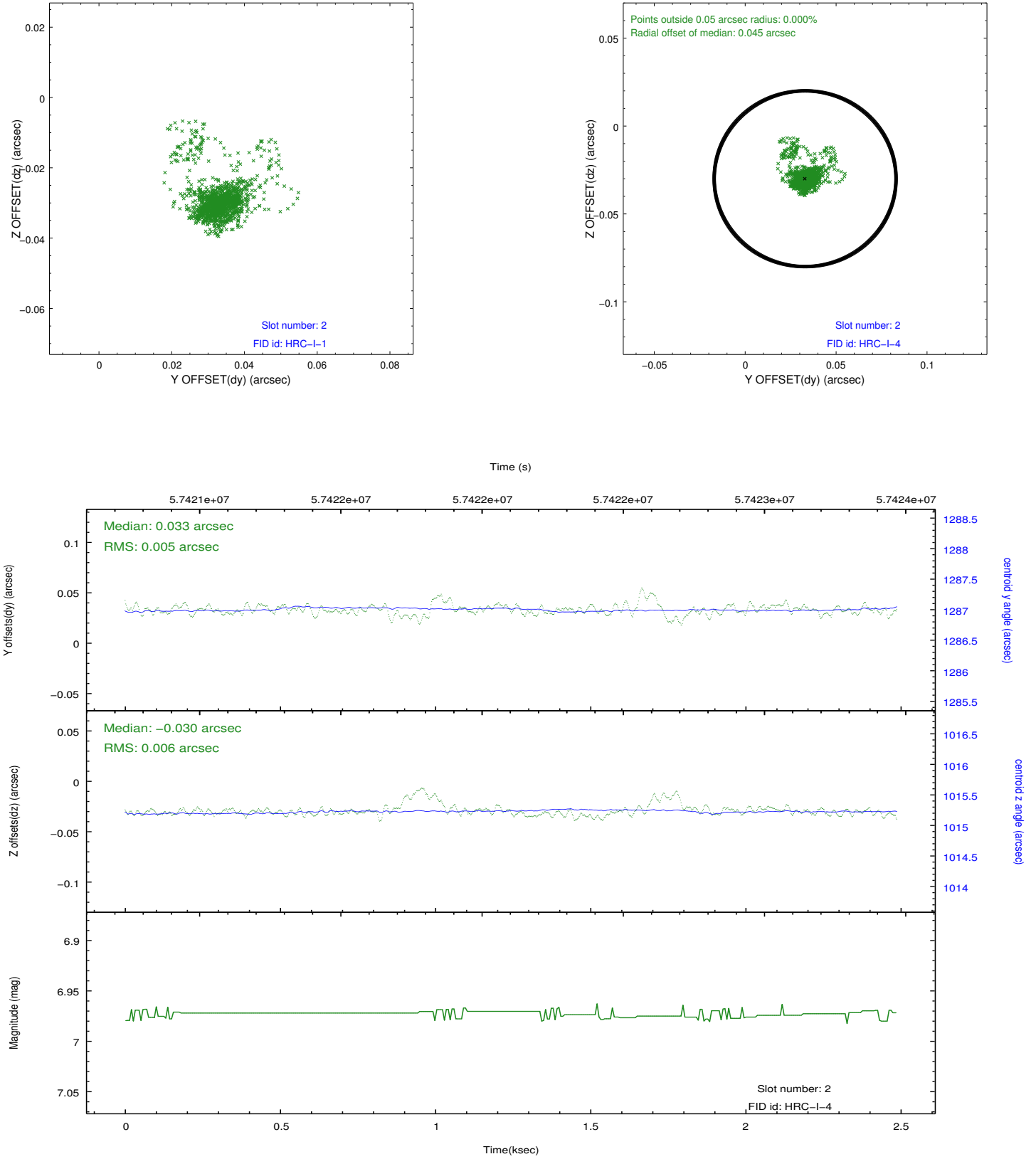
### 2.5.1 Slot 0



## 2.5.2 Slot 1



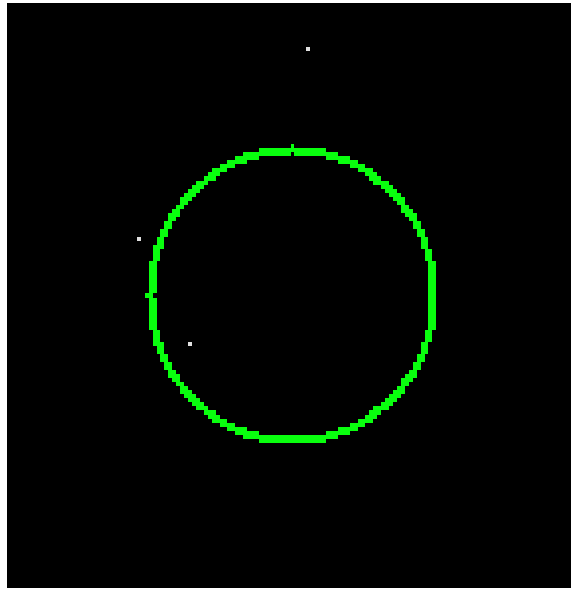
## 2.5.3 Slot 2



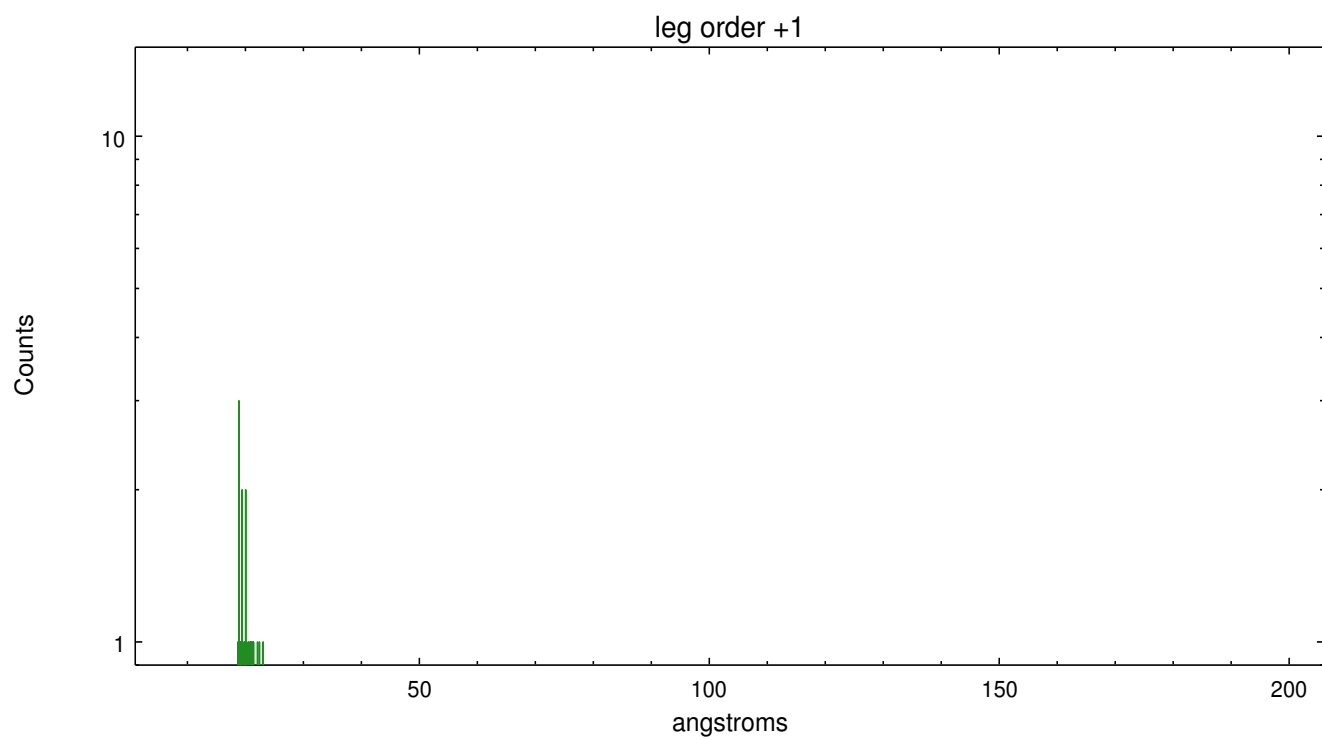
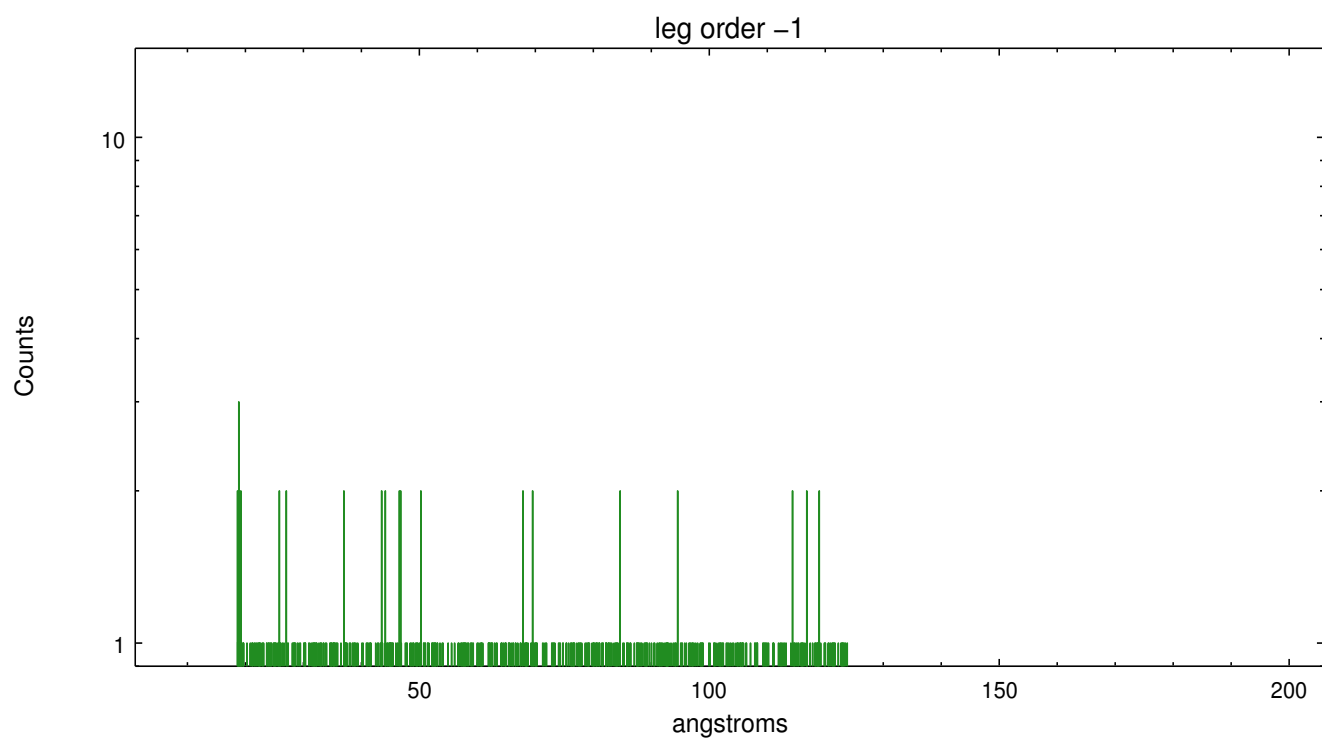


## 3 Gratings

### 3.1 LETG Arm



LETG Zero Order



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.04.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.273

## A.2 Comments

HRC-I PSF tests. Target is far off-axis.

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Charge time for this ObsId remains at original value of 2.273 ks,  
although  
with the current processing the charge time would have been 2.276 ksec.