

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 1390 - L2 Version 4

Chandra X-Ray Center

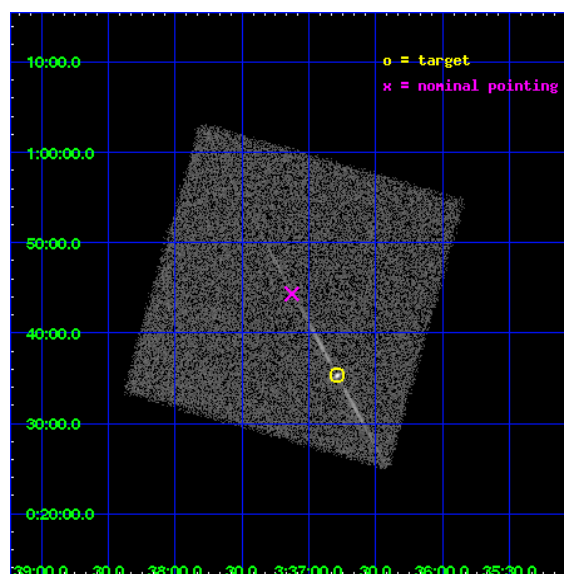
L2 Processing Date : Nov 20 2009

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# 1 Front

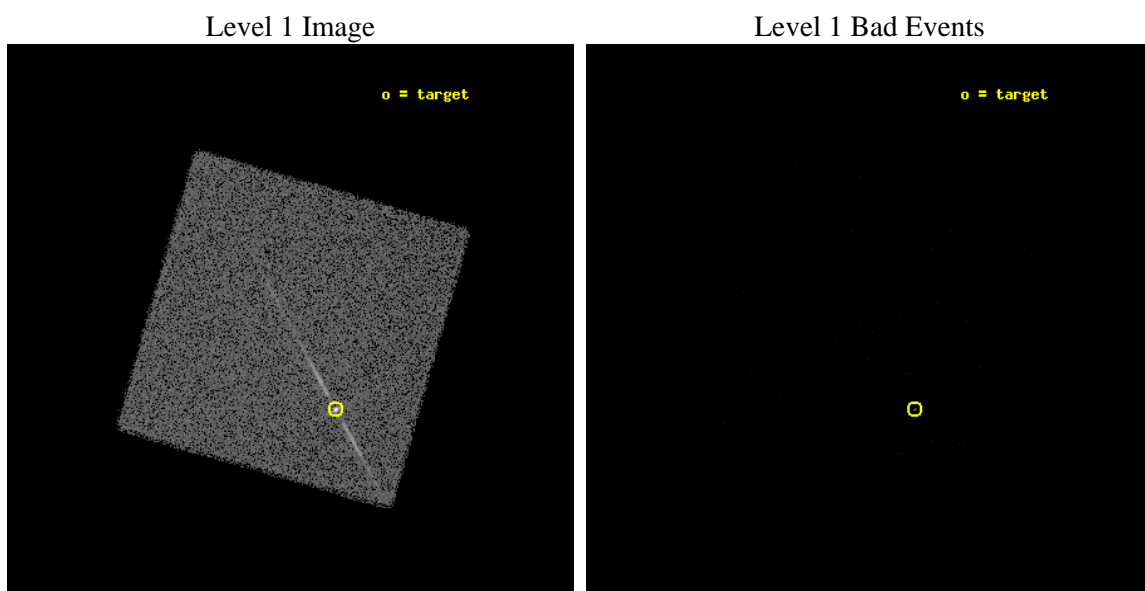
seq_num	280340	Sequence number
obs_id	1390	Observation id
title	&#160	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HR1099	Source name
ra_targ	54.197083	Observer's specified target RA
dec_targ	0.589972	Observer's specified target Dec
ra_nom	54.281984238017	Nominal RA
dec_nom	0.73907955512305	Nominal Dec
roll_nom	61.051221842578	Nominal Roll
revision	4	Processing version of data
ontime	2166.0813281387	[s]
livetime	2152.1610855995	Ontime multiplied by DTCOR
l2events	67962	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	2166.0813281387	[s]
caldbver	4.1.4	&#160	l1events	105320	Number of level 1 events
date	2009-11-20T16:19:03	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

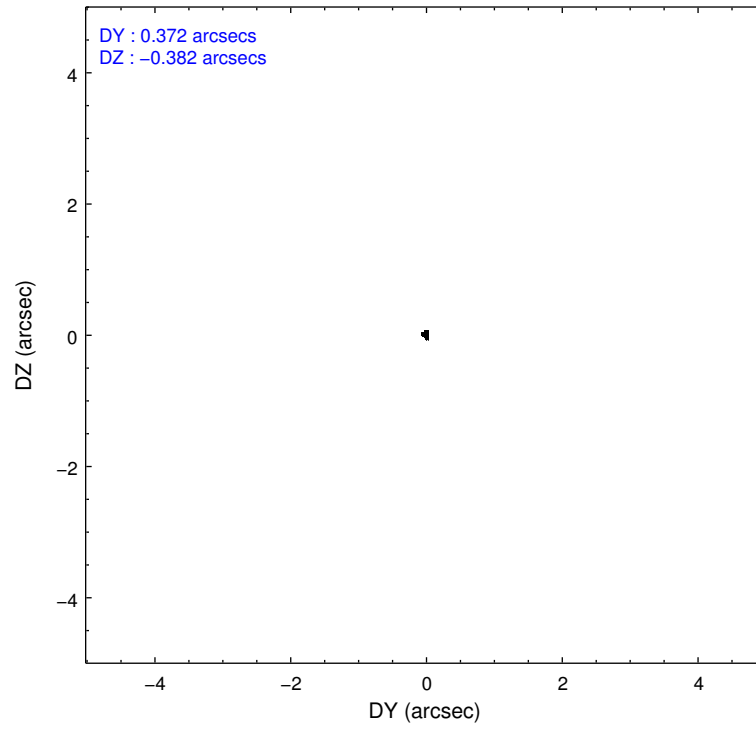
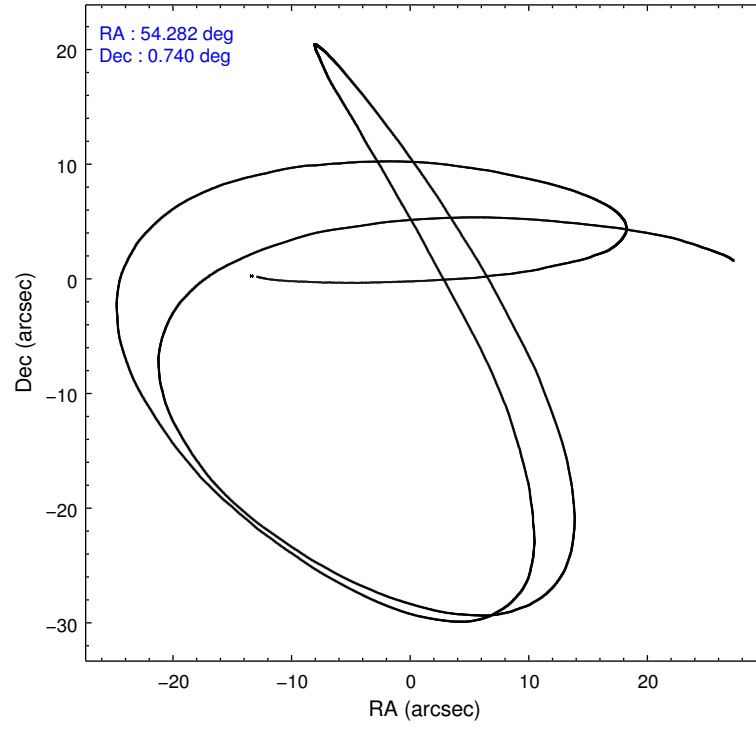
#### Level 1 Events

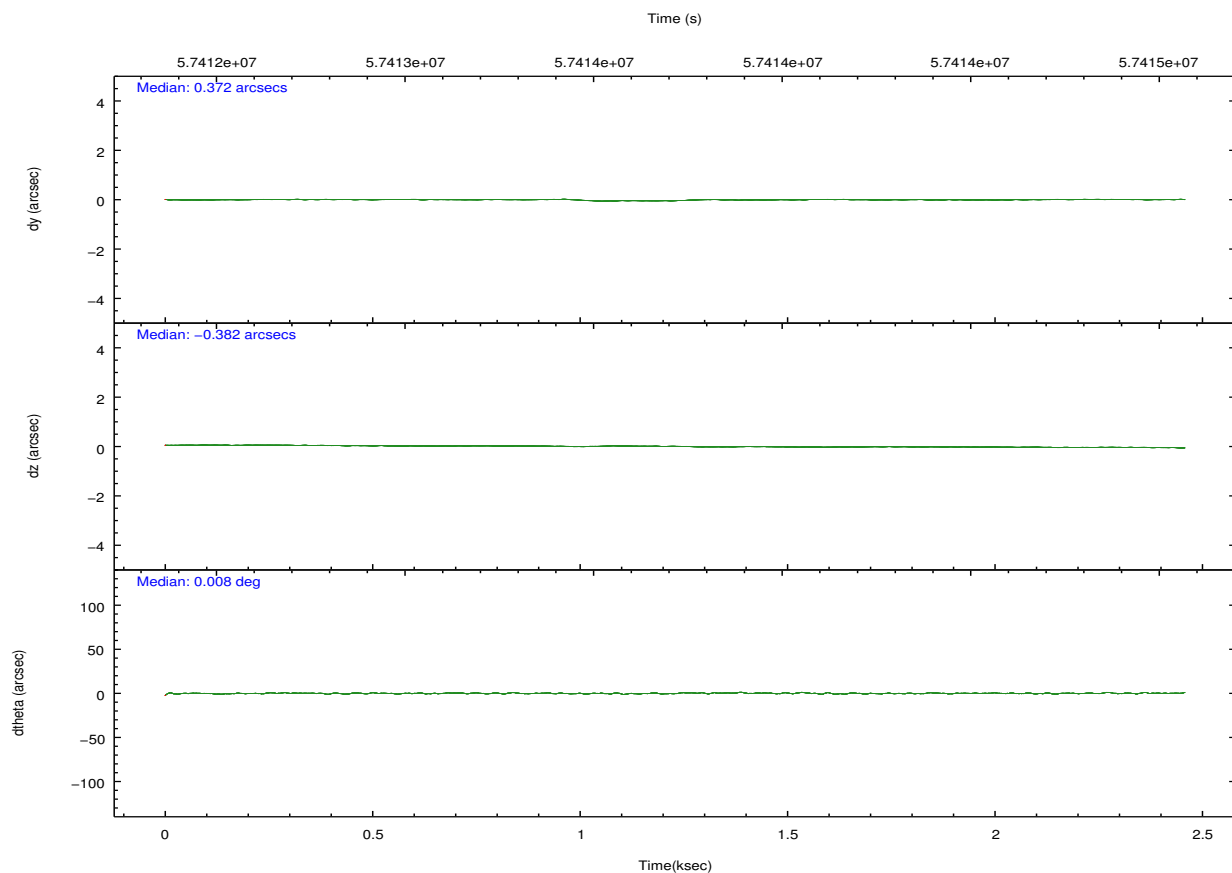
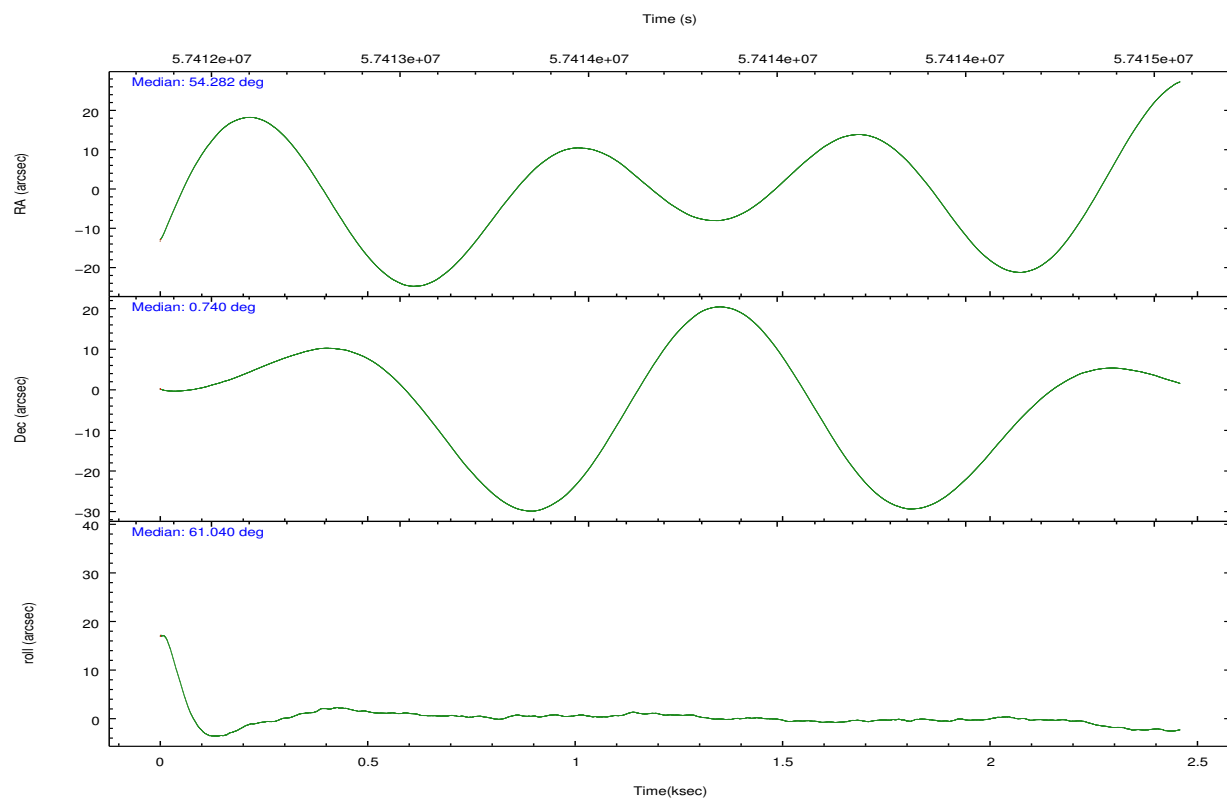
	<b>segment 0</b>
level 1 events	105320
rejected events	2412
rejected %	2%

## 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	54.281910	54.28198423801702			
Pointing Dec	0.711458	0.7390795551230489			
Pointing Roll	61.146331	61.0512218425778			
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	57412945.184000	57411738.605704			
Observation start date	1999-10-27T12:01:21	1999-10-27T11:42:18			
Observation end time	57414945.184000	57415079.593325			
Observation end date	1999-10-27T12:34:41	1999-10-27T12:37:59			

## 2.3 Aspect





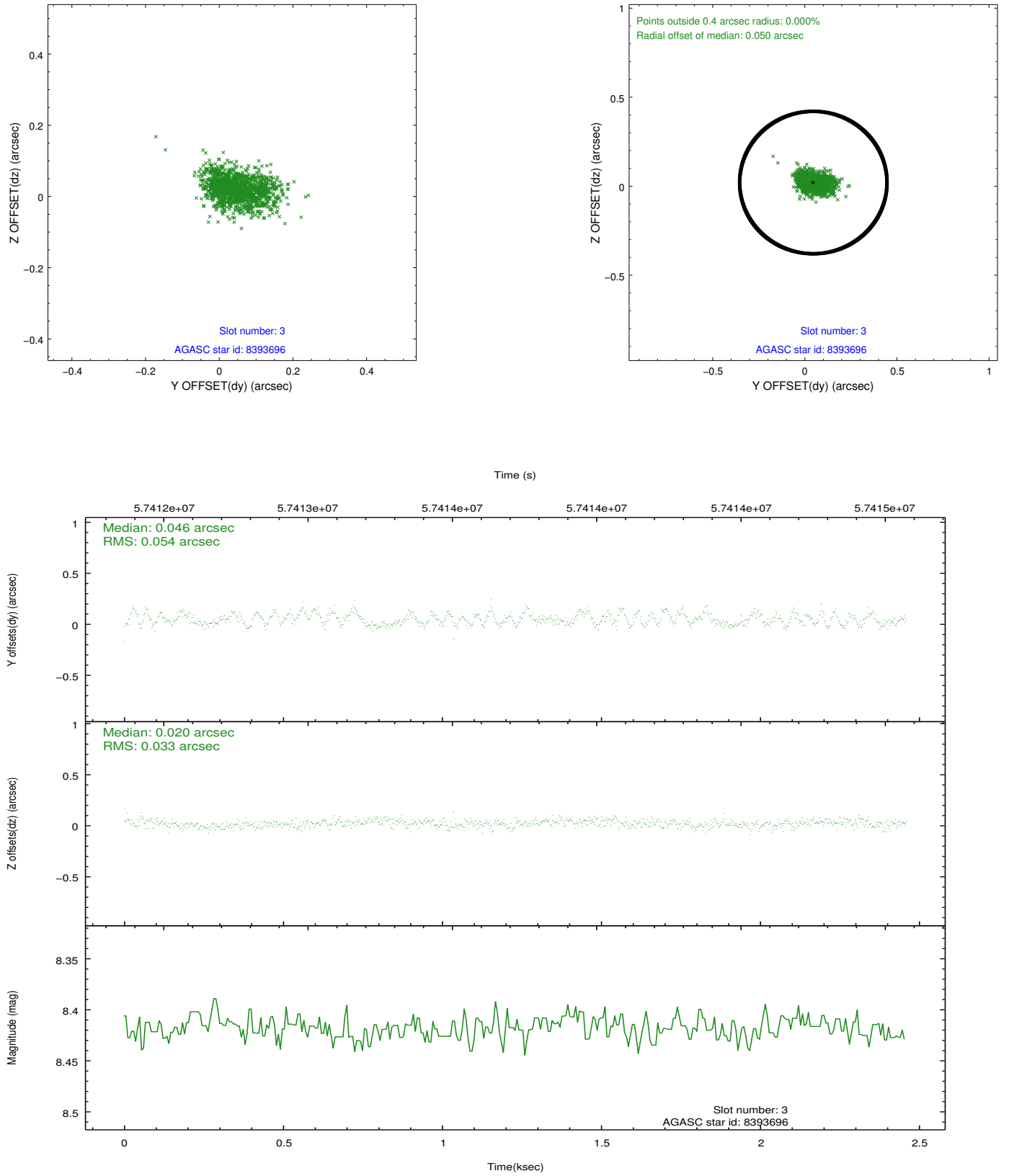
Slot Statistics

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	1200	0.028	0.014	0.006	0.010	0.000000	0.000000	-755.72	-1287.31
1	FID	HRC-I-2	6.98	1200	0.052	-0.040	0.005	0.009	0.000000	0.000000	856.30	-1289.98
2	FID	HRC-I-3	7.03	1200	0.039	-0.063	0.005	0.010	0.000000	0.000000	-1183.53	1016.10
3	GUIDE	8393696	8.42	1200	0.046	0.020	0.067	0.110	53.645666	0.680479	-1203.51	1953.56
4	GUIDE	8398800	8.69	1199	-0.024	-0.042	0.053	0.090	54.242352	0.922024	593.73	493.72
5	GUIDE	8390744	9.03	1199	-0.006	-0.140	0.071	0.115	53.677290	0.926294	-373.07	2281.17
6	GUIDE	8395104	8.66	1200	-0.092	0.062	0.067	0.113	54.744893	0.796520	1071.99	-1308.21
7	GUIDE	8395504	9.74	1199	0.067	0.110	0.095	0.154	54.466573	0.973564	1147.83	-126.12

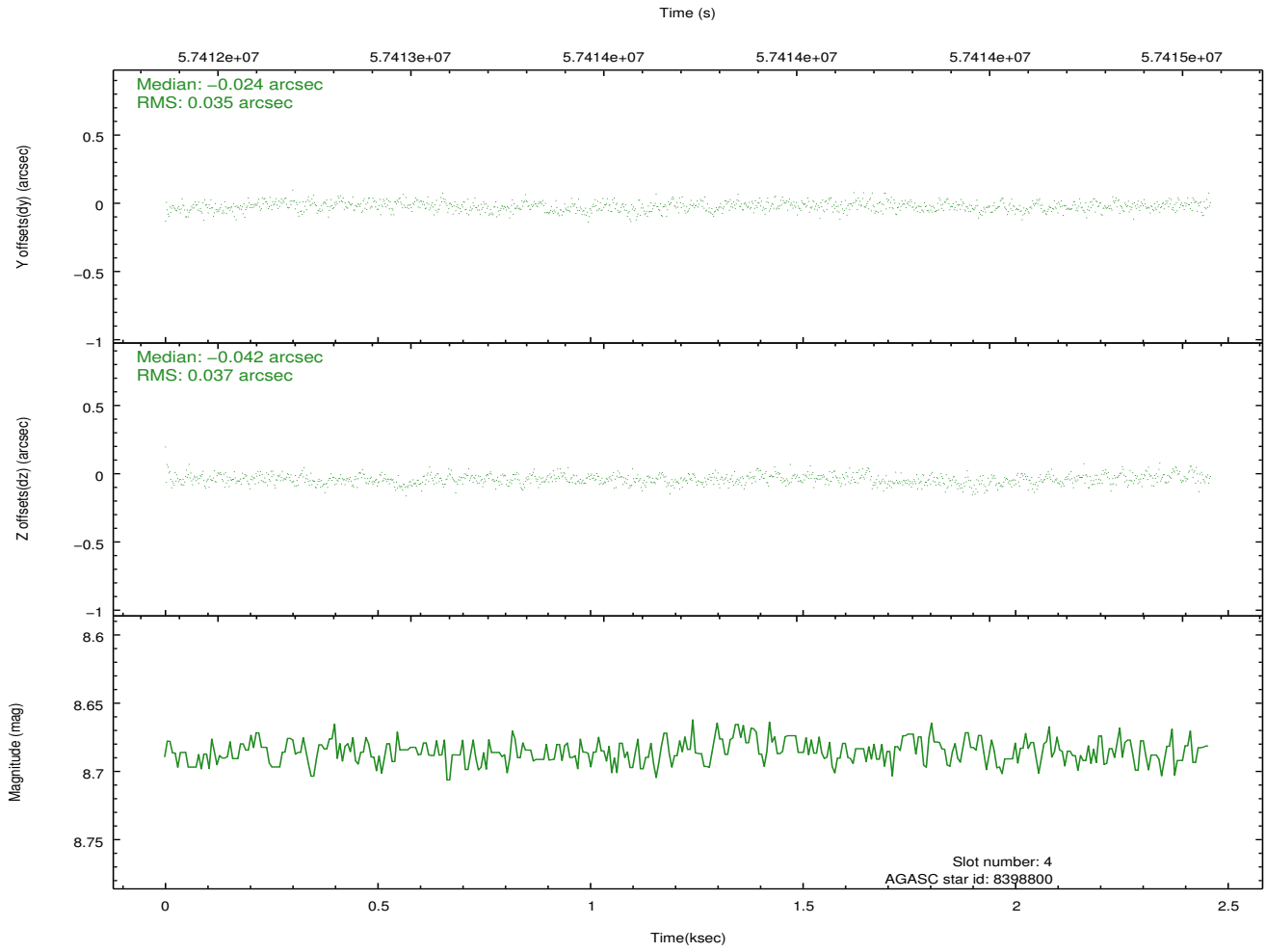
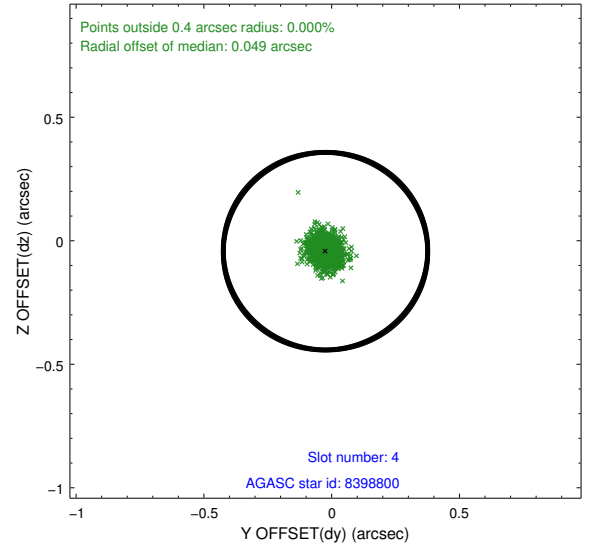
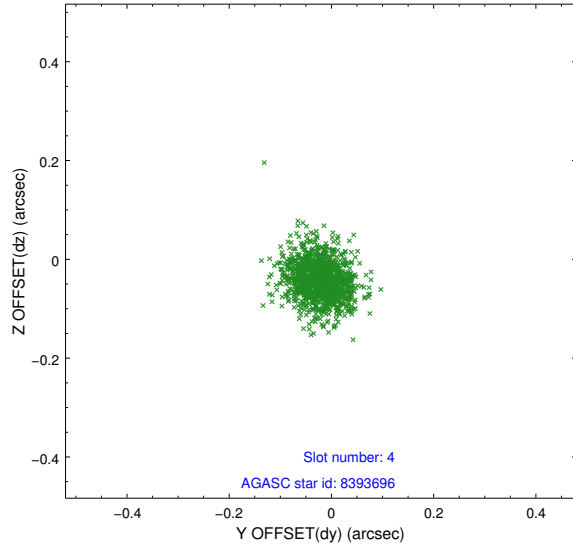


## 2.4 Star Slots

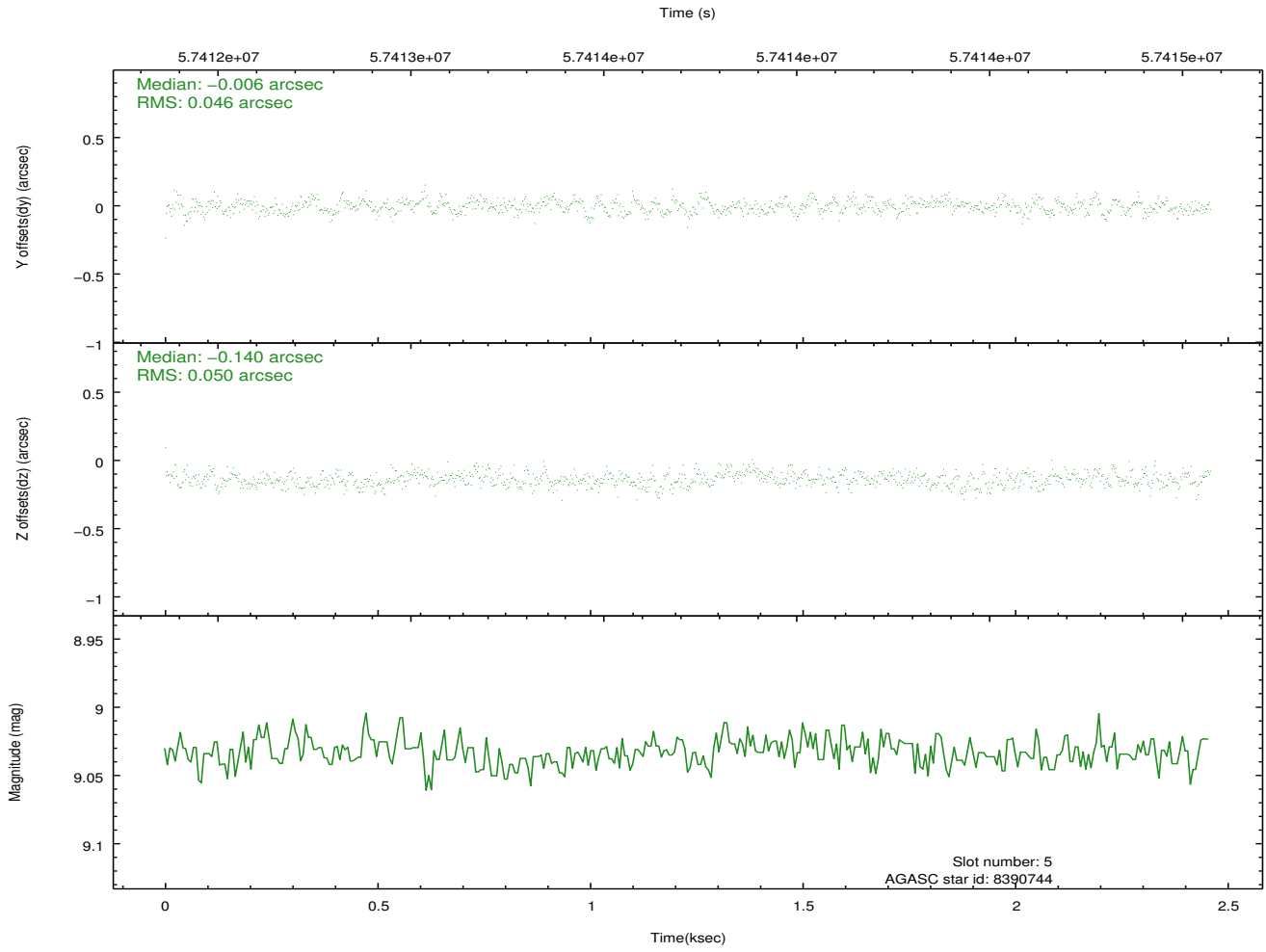
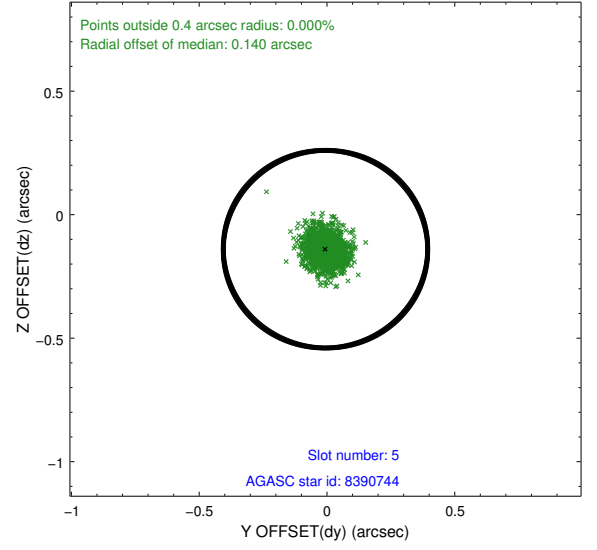
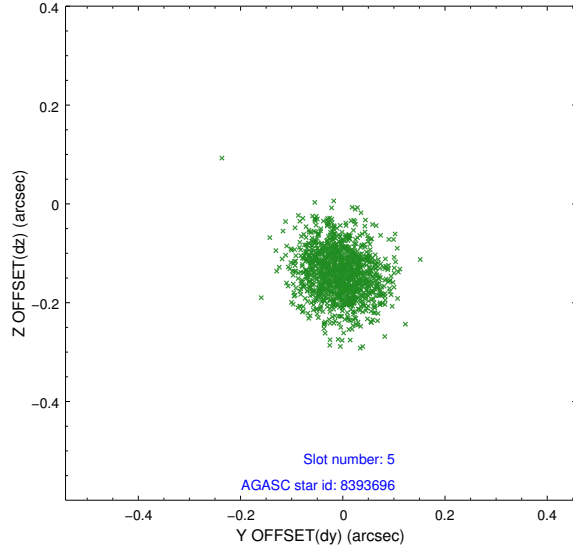
### 2.4.1 Slot 3



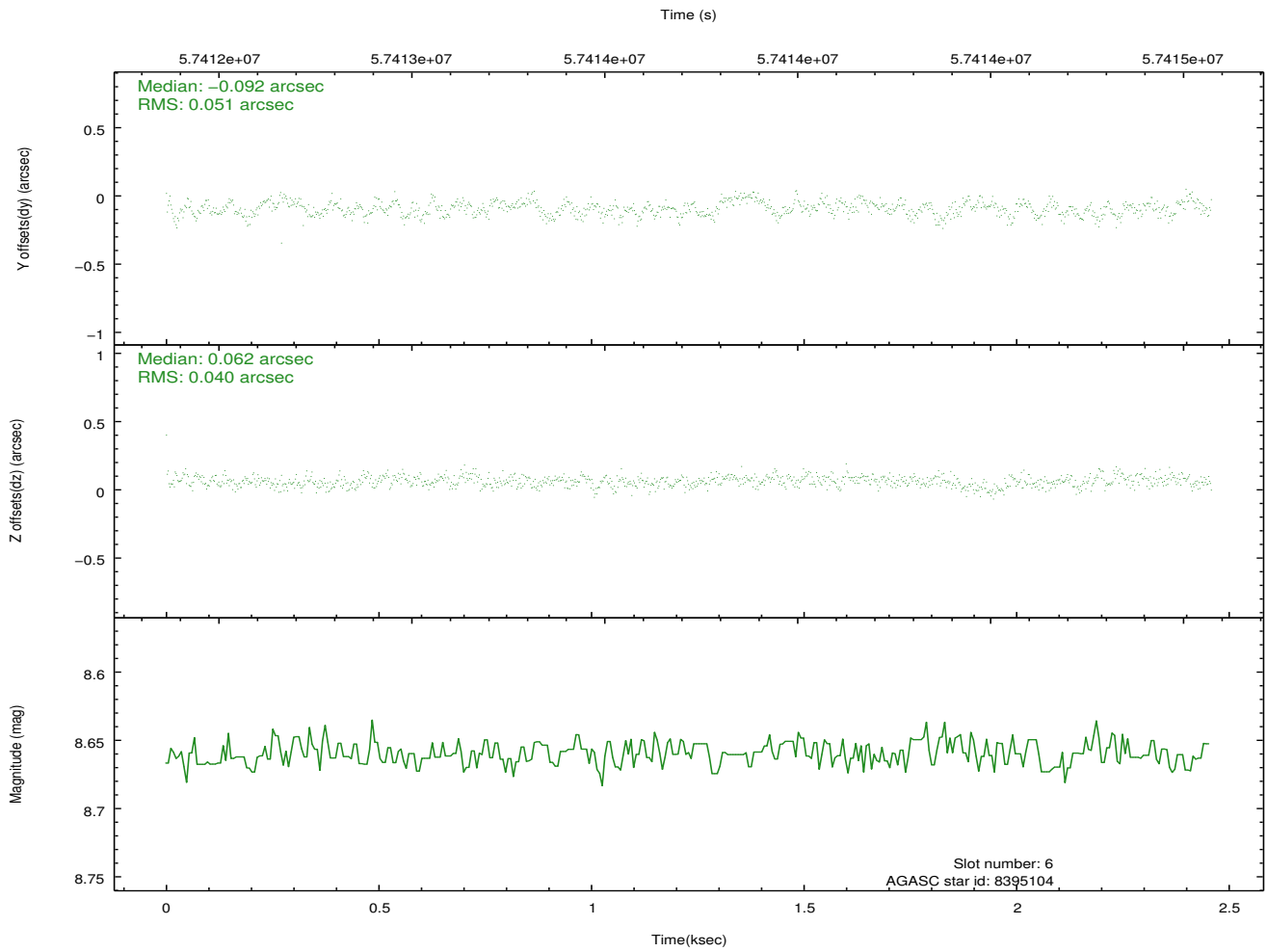
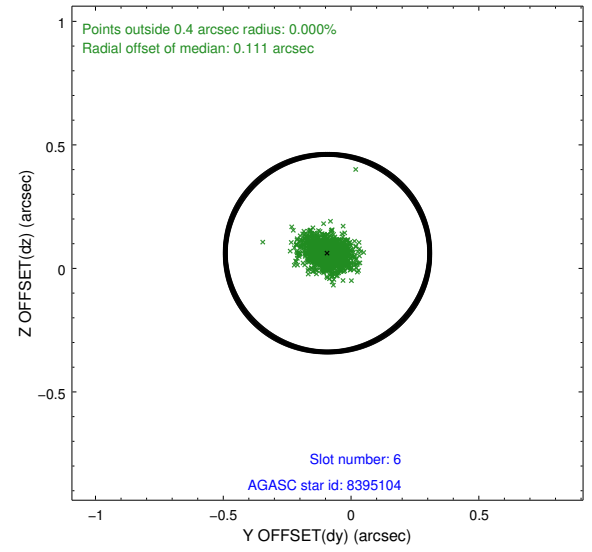
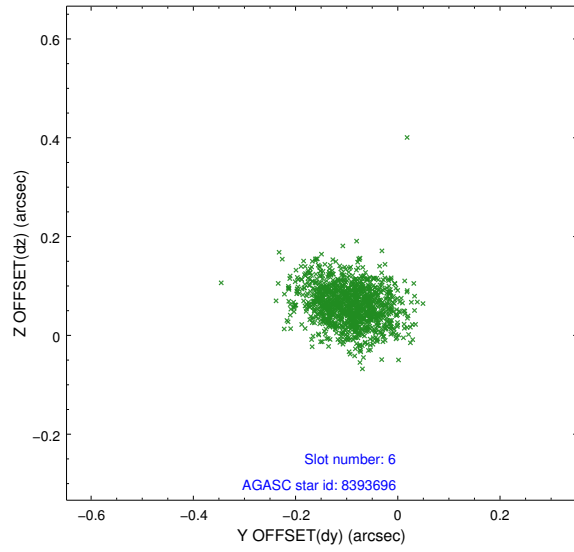
## 2.4.2 Slot 4



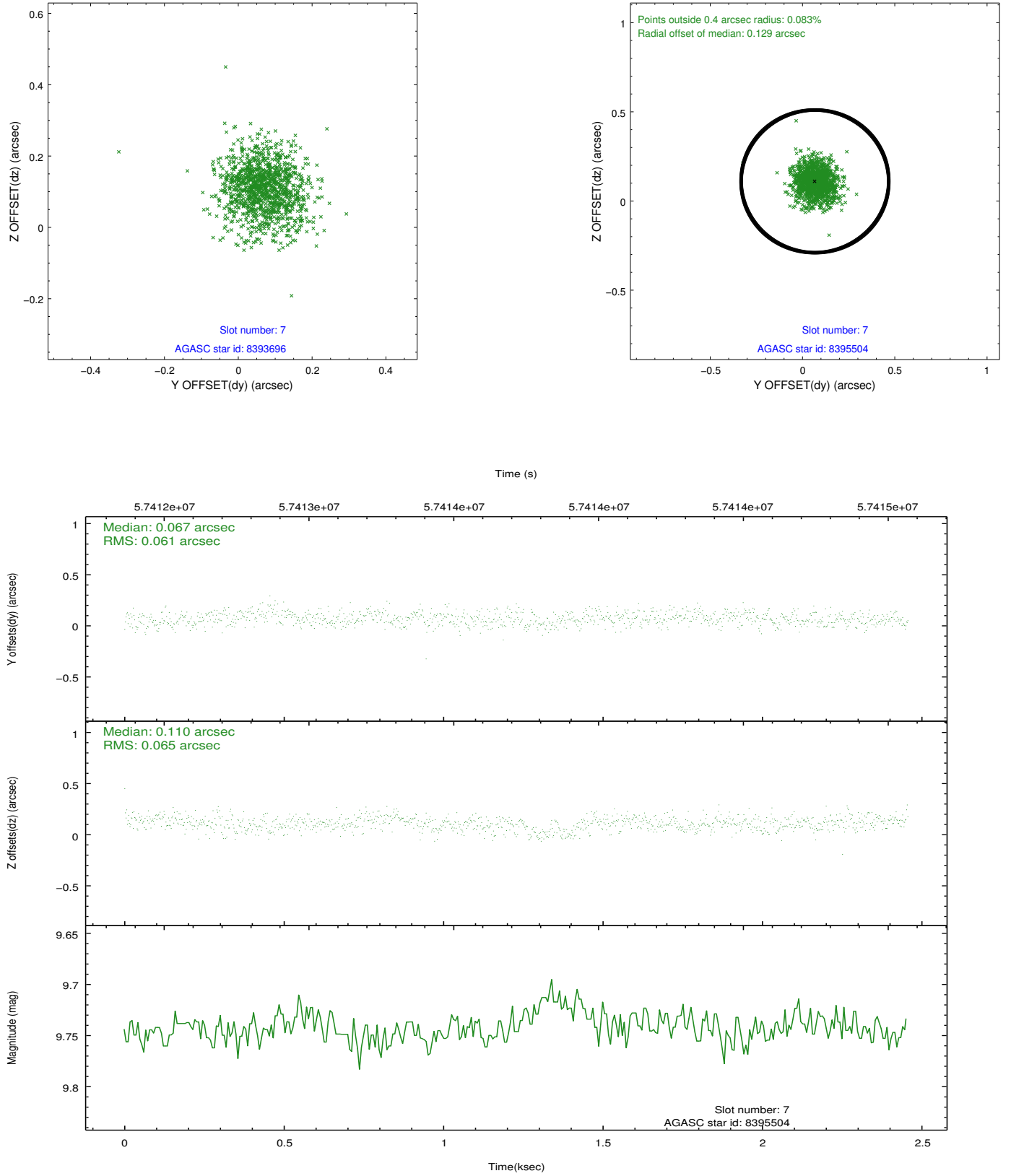
### 2.4.3 Slot 5



## 2.4.4 Slot 6

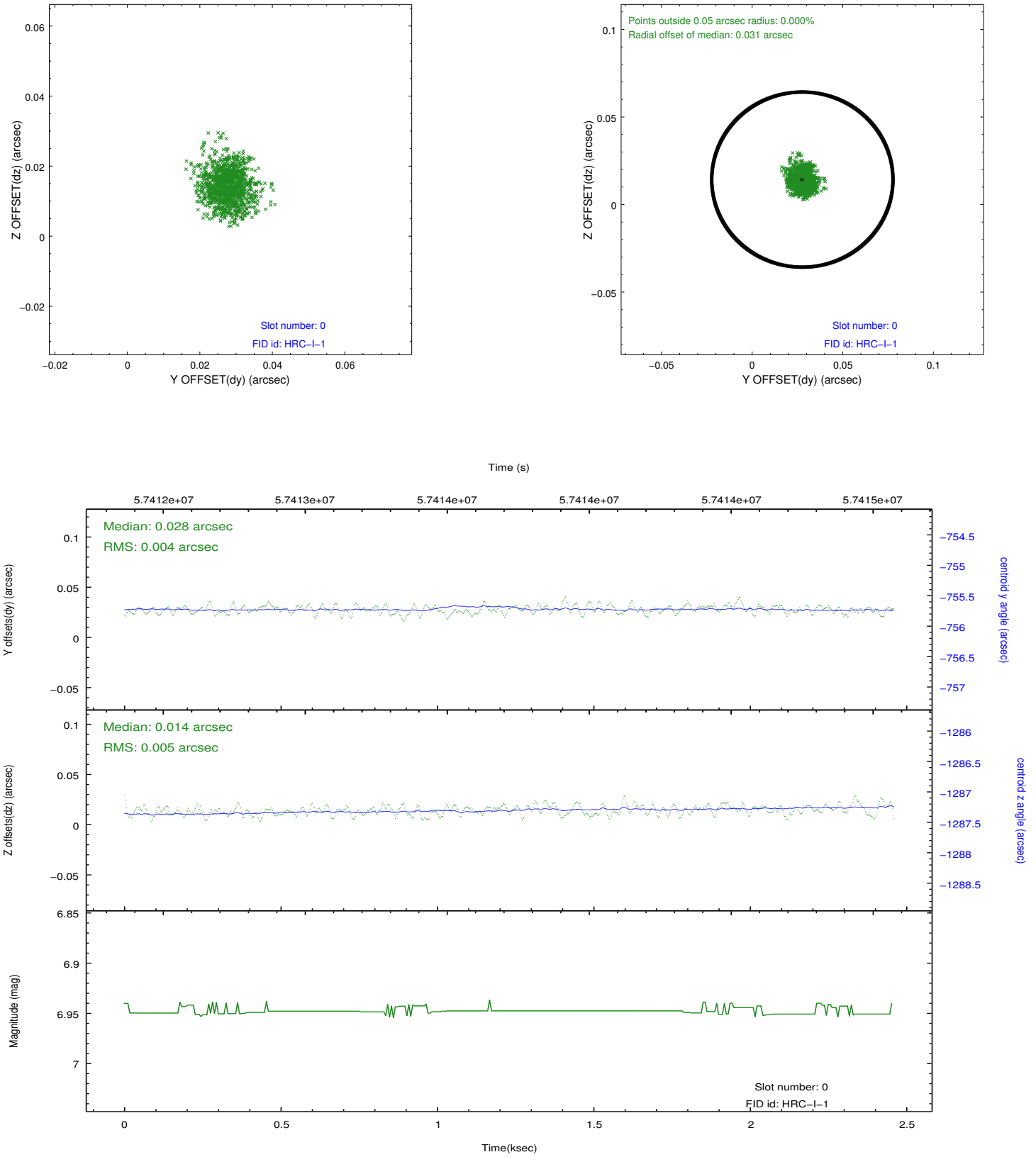


## 2.4.5 Slot 7

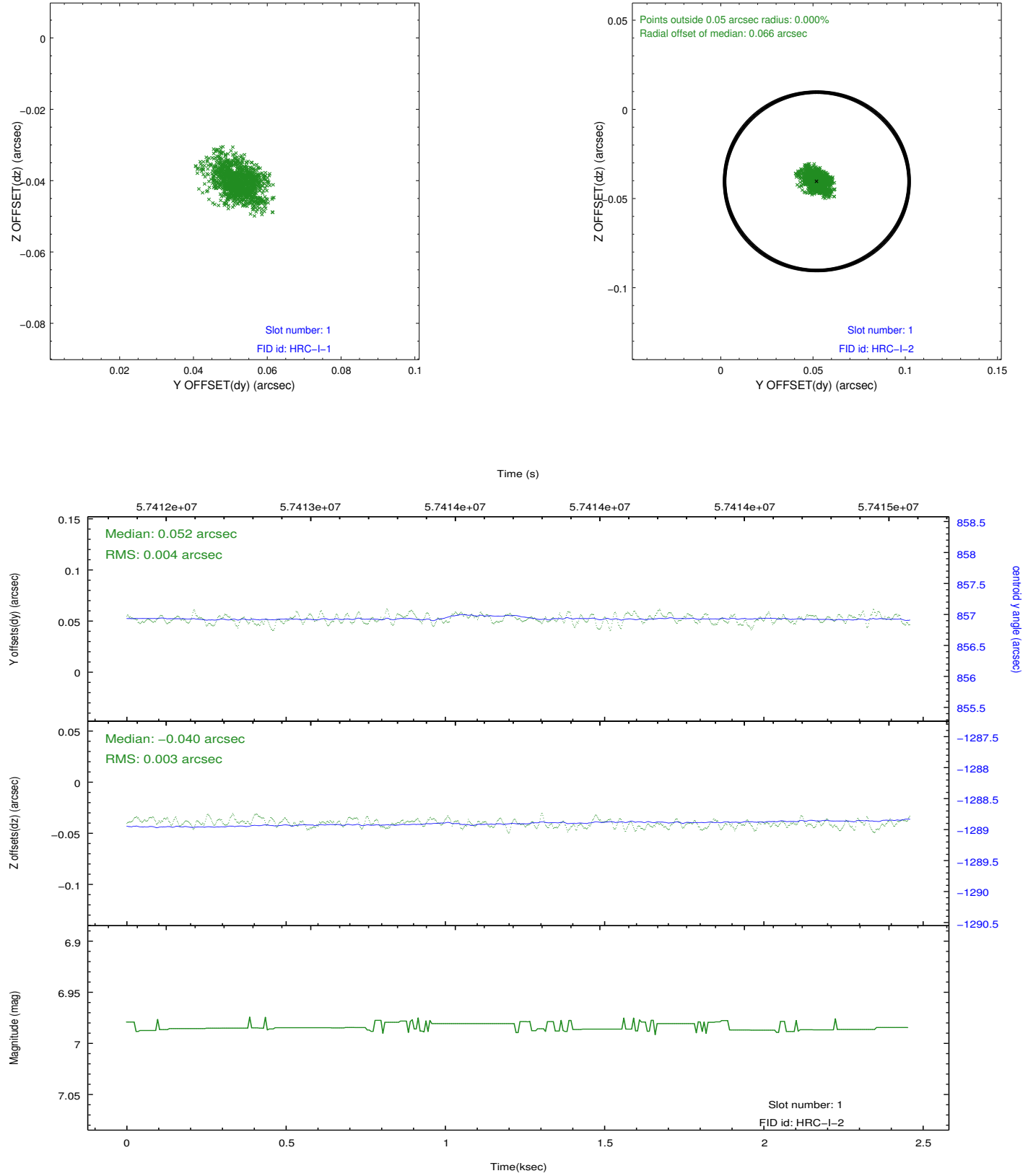


## 2.5 FID Slots

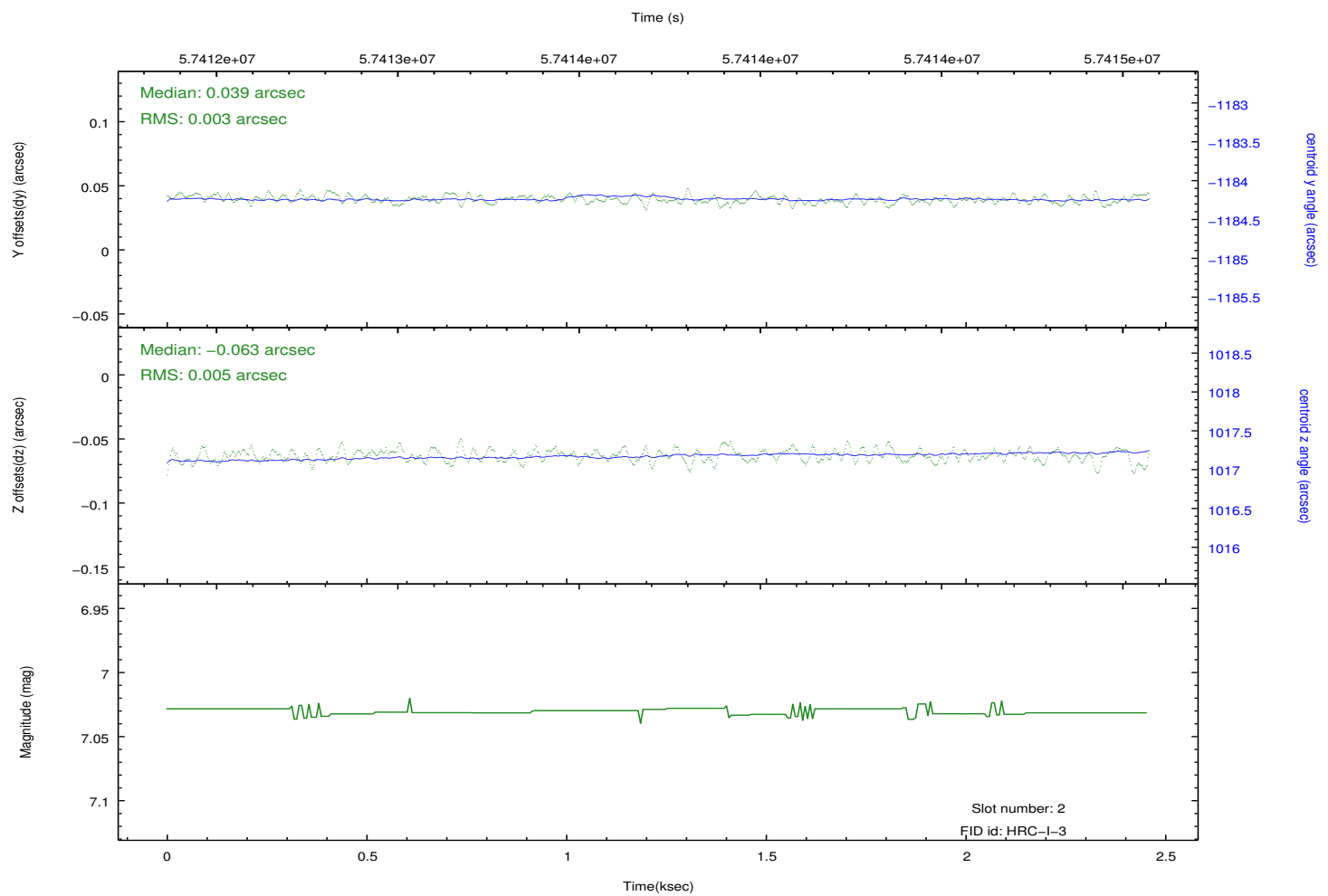
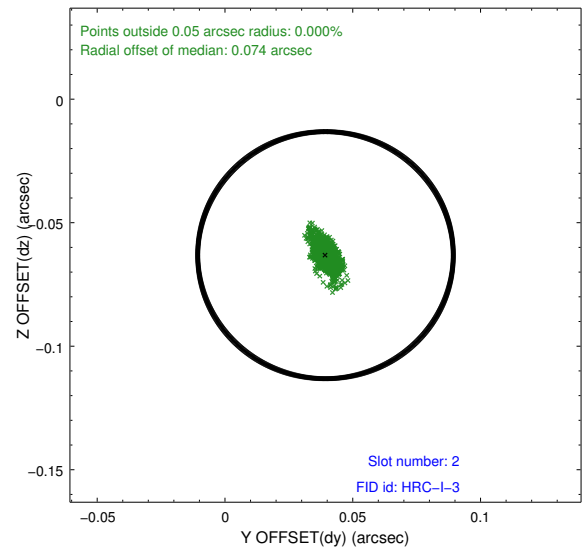
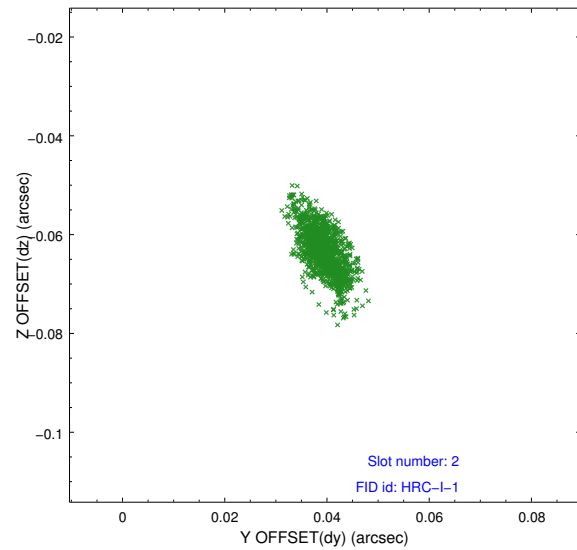
### 2.5.1 Slot 0



## 2.5.2 Slot 1



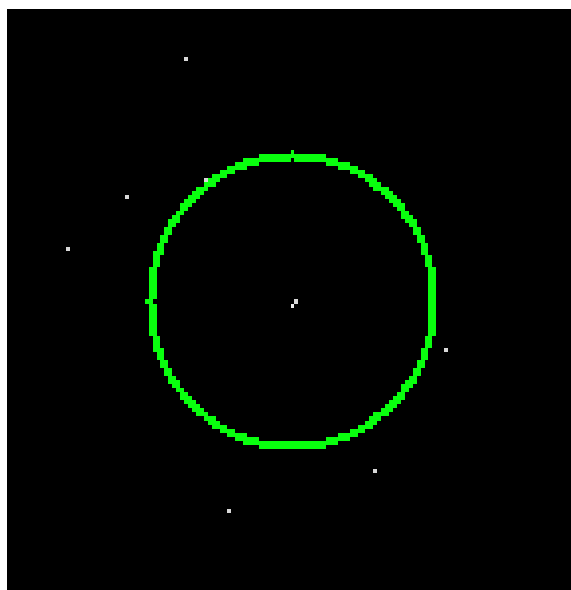
### 2.5.3 Slot 2



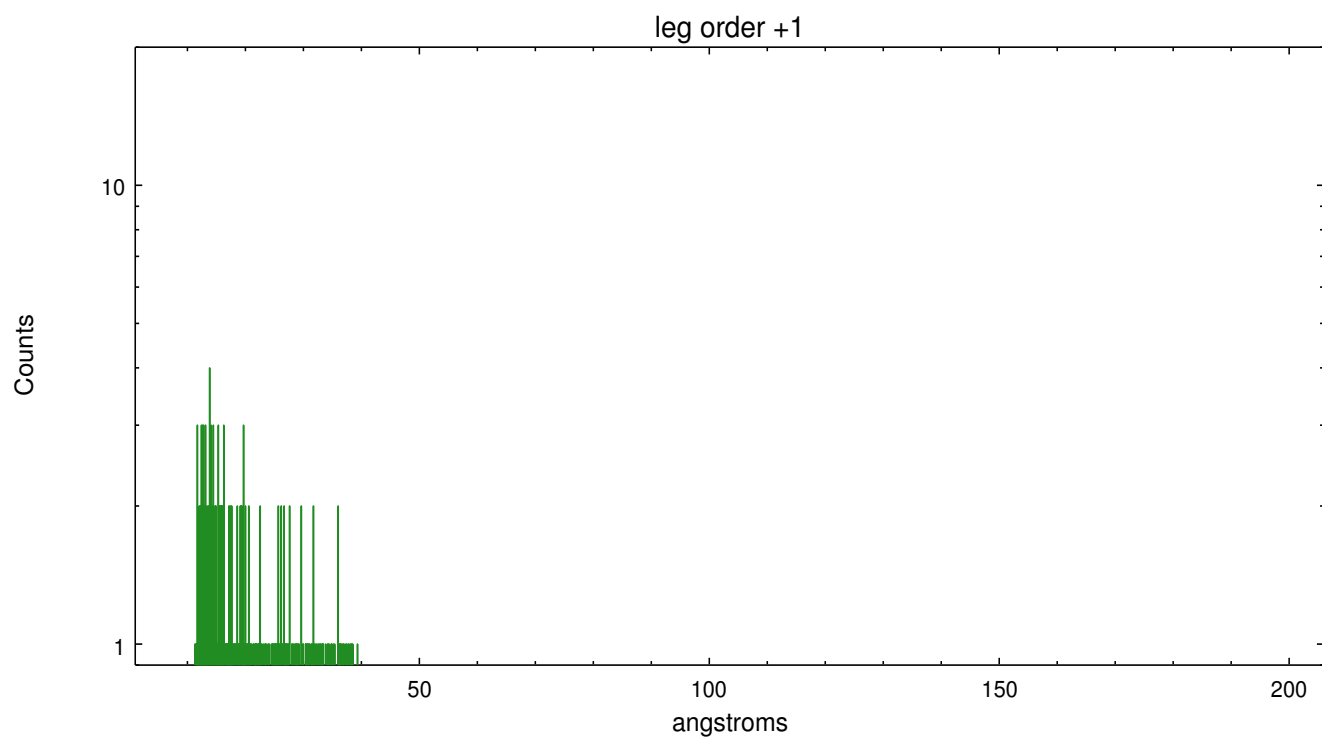
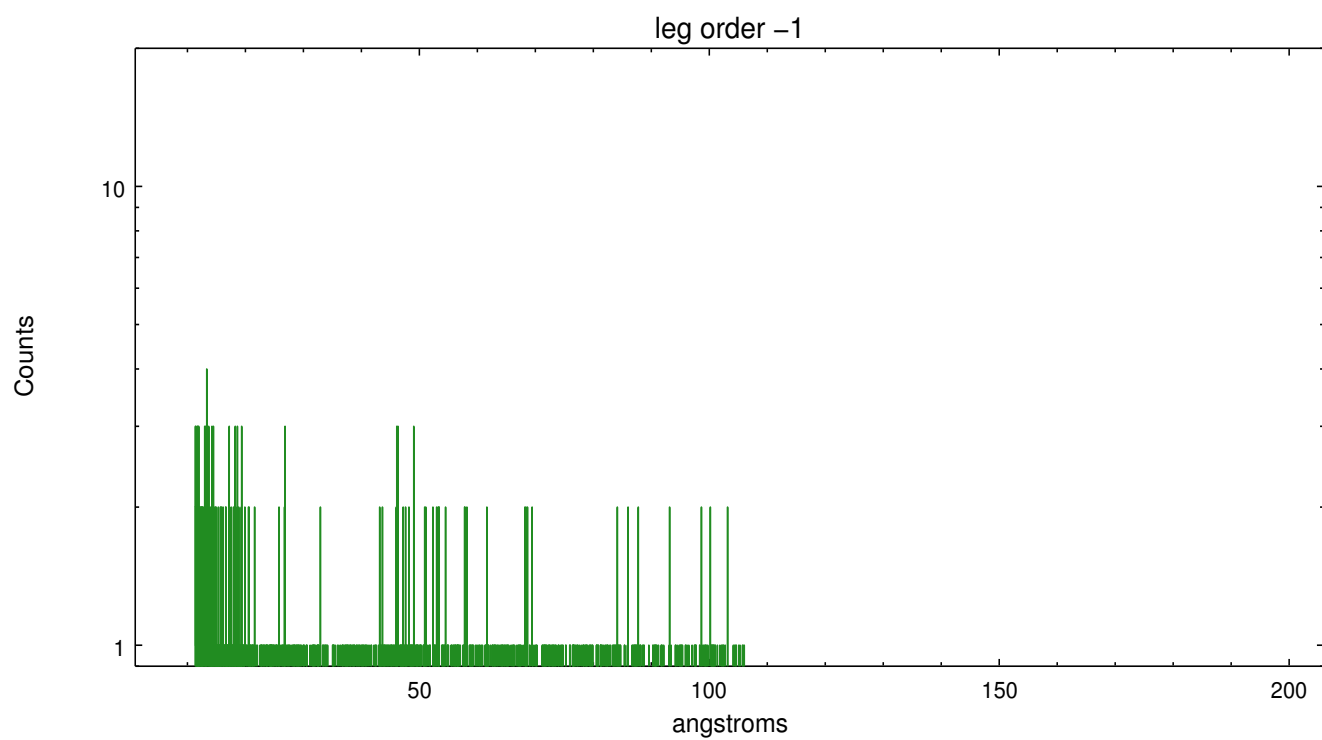


## 3 Gratings

### 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	2.166

## A.2 Comments

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