

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 1397 - L2 Version 5

Chandra X-Ray Center

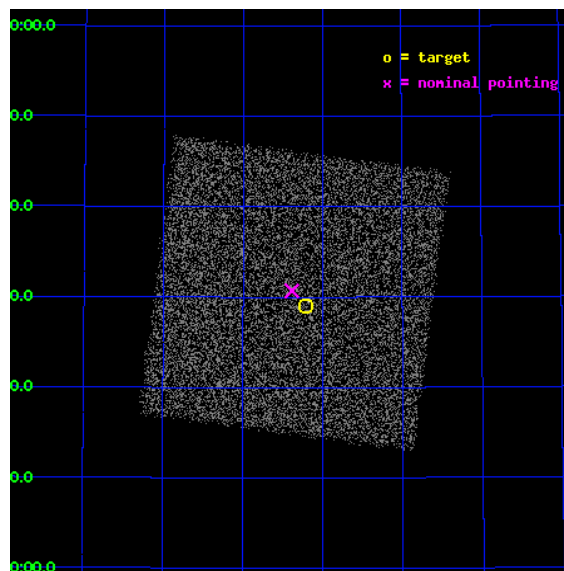
L2 Processing Date : Aug 23 2010

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# 1 Front

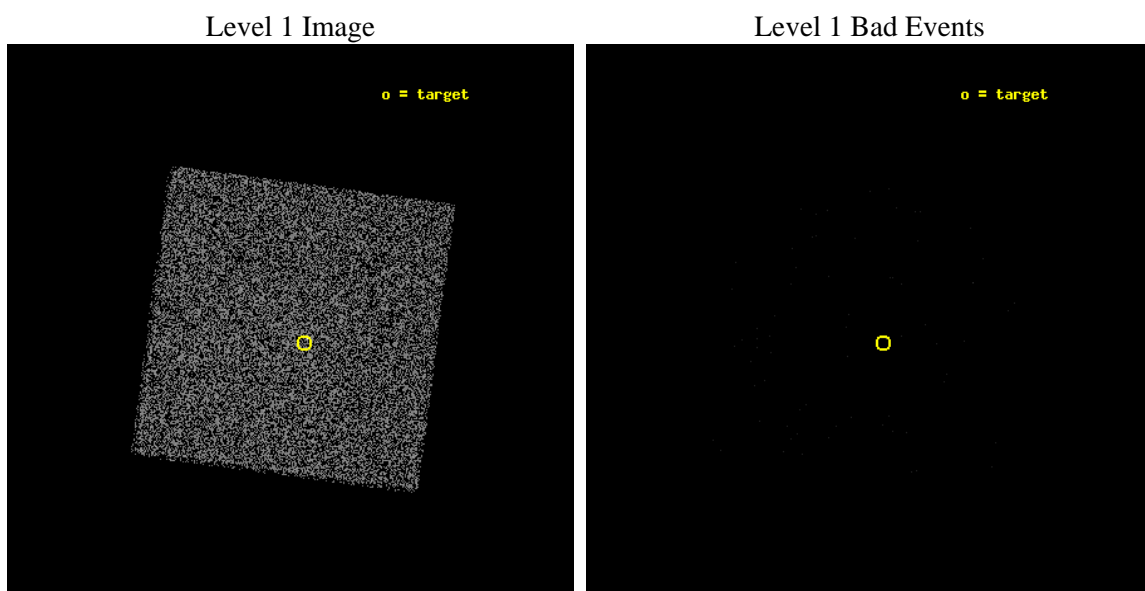
seq_num	280347	Sequence number
obs_id	1397	Observation id
title	OFF-AXIS PSF USING 2RE J1032+532	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	2REJ1032+532,YOFF=2	Source name
ra_targ	158.054167	Observer's specified target RA
dec_targ	53.483333	Observer's specified target Dec
ra_nom	158.09626646151	Nominal RA
dec_nom	53.511988985684	Nominal Dec
roll_nom	52.593648998306	Nominal Roll
revision	5	Processing version of data
ontime	751.58127710968	[s]
livetime	746.86567702567	Ontime multiplied by DTCOR
l2events	21707	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	3000.000000	Scheduled observation exposure time
ascdsver	8.1.1	Processing system revision	ontime	751.58127710968	[s]
caldsver	4.1.4	&#160	l1events	36195	Number of level 1 events
date	2009-11-20T17:02:02	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

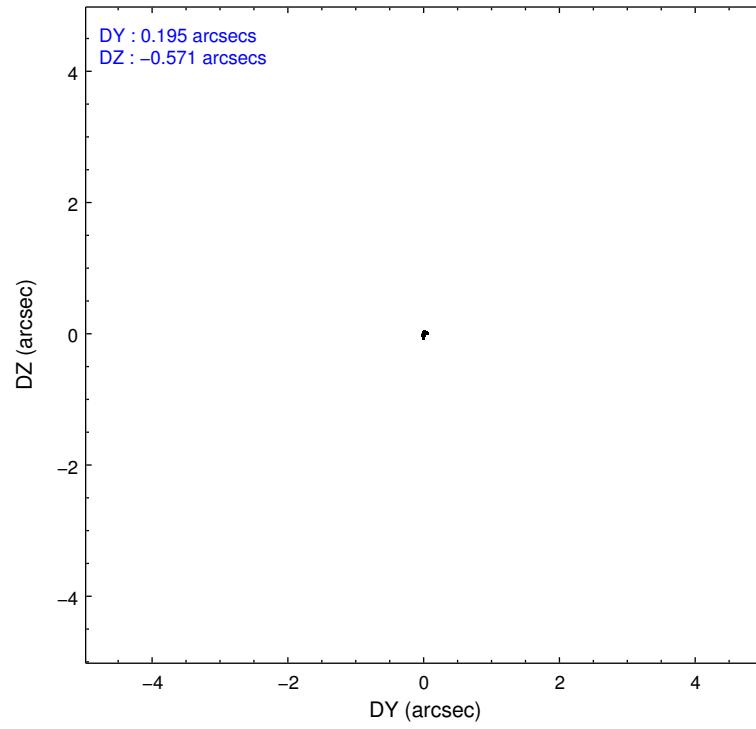
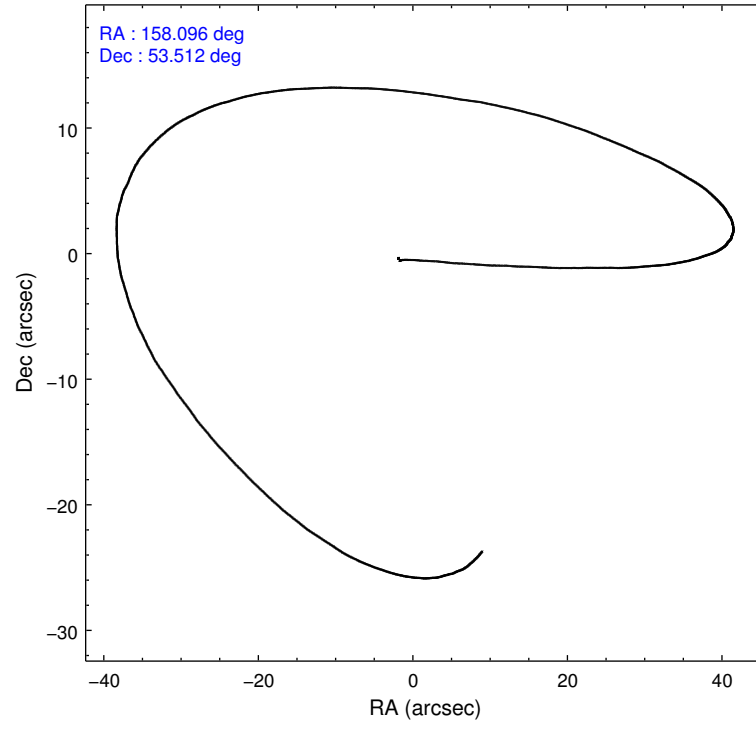
#### Level 1 Events

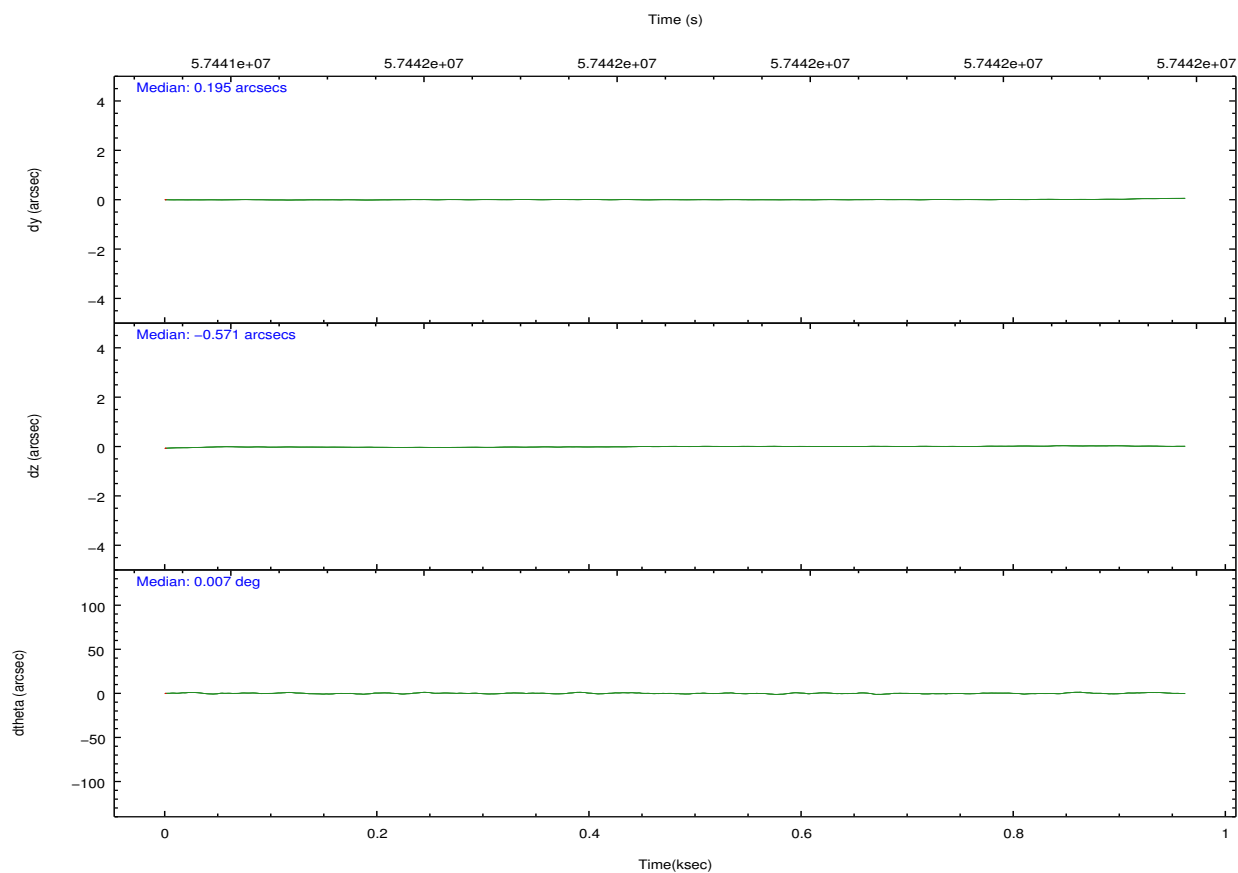
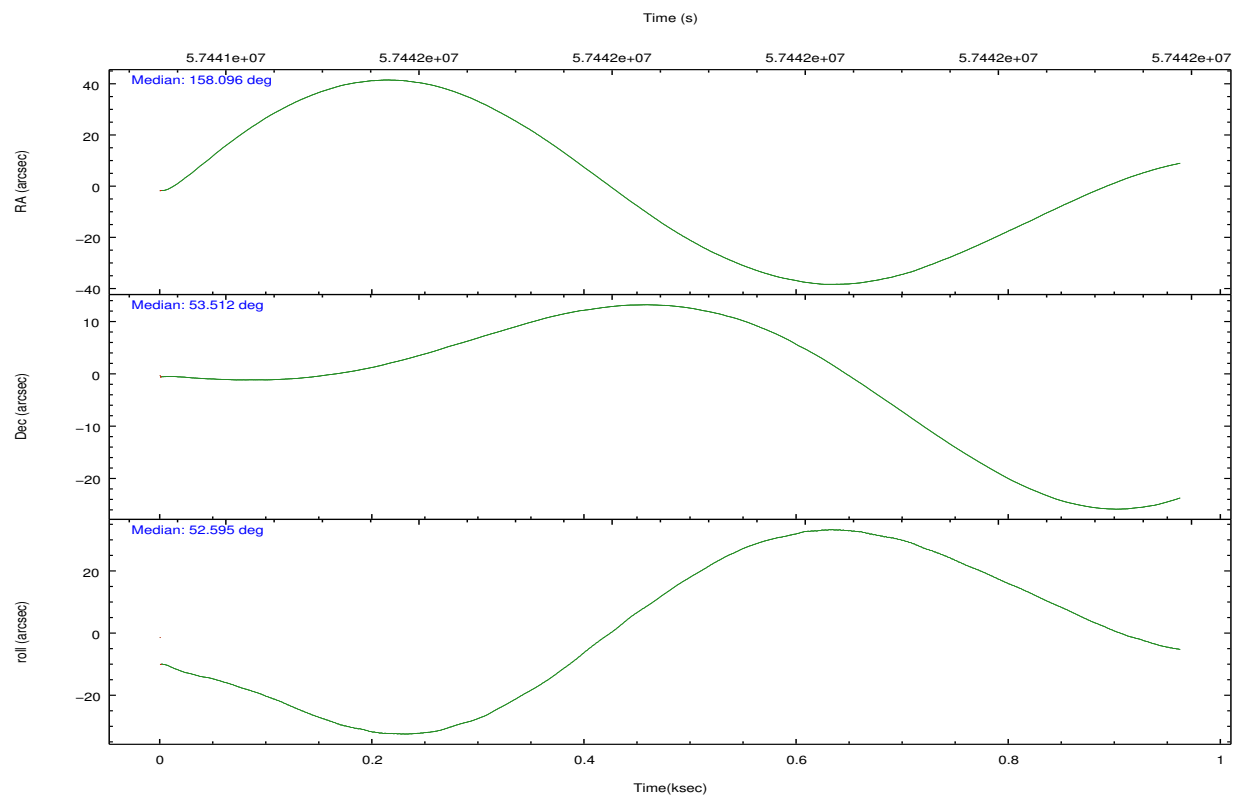
	<b>segment 0</b>
level 1 events	36195
rejected events	2380
rejected %	6%

## 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	158.089370	158.0962664615144			
Pointing Dec	53.484979	53.51198898568352			
Pointing Roll	52.694744	52.59364899830609			
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	57441866.184000	57441200.694267			
Observation start date	1999-10-27T20:03:22	1999-10-27T19:53:20			
Observation end time	57444866.184000	57442806.356825			
Observation end date	1999-10-27T20:53:22	1999-10-27T20:20:06			

## 2.3 Aspect





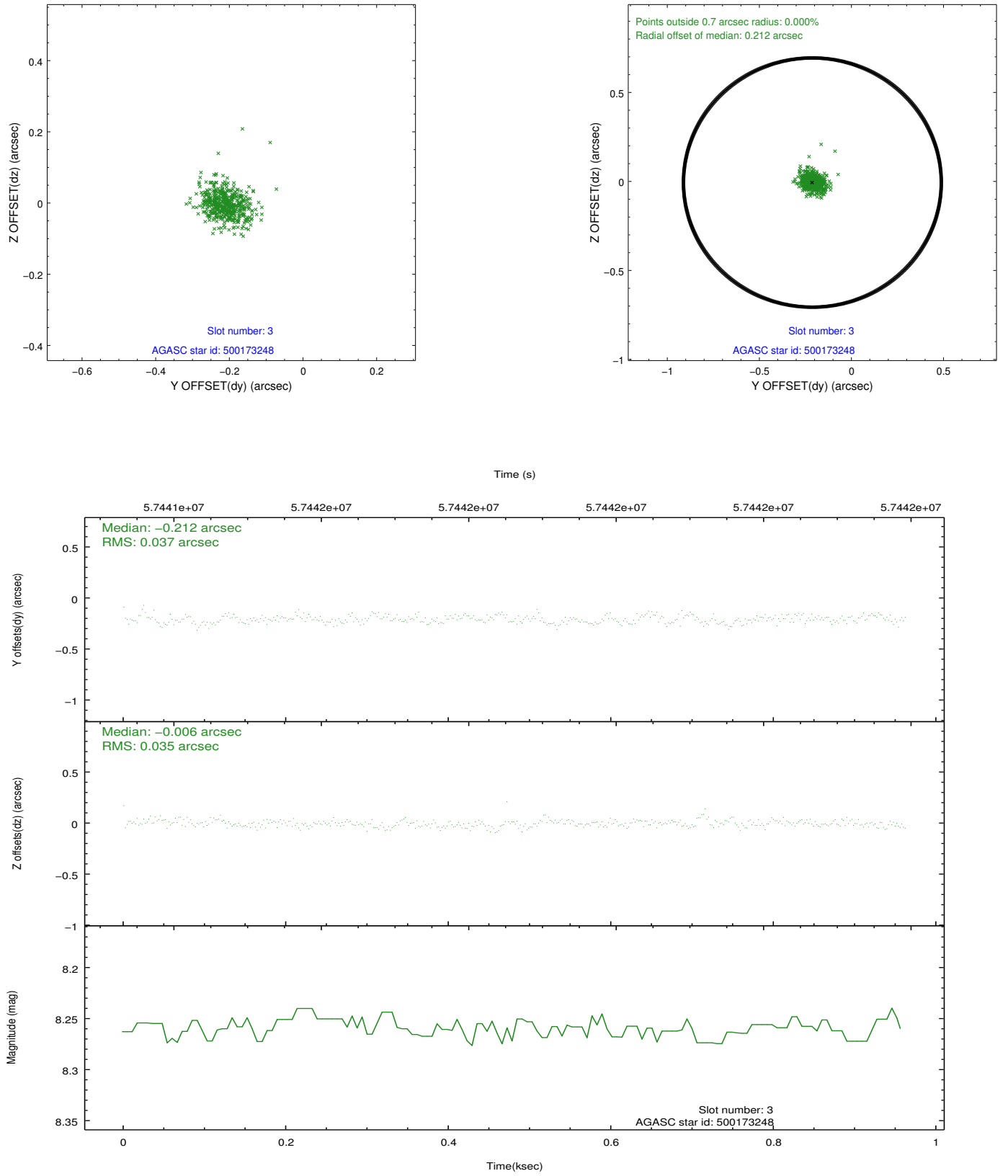
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.96	470	0.026	-0.002	0.006	0.009	0.000000	0.000000	-755.54	-1287.12
1	FID	HRC-I-3	7.04	470	0.049	-0.063	0.006	0.010	0.000000	0.000000	-1185.67	1014.63
2	FID	HRC-I-4	6.98	470	0.039	-0.024	0.005	0.008	0.000000	0.000000	1284.68	1017.23
3	GUIDE	500173248	8.26	470	-0.212	-0.006	0.051	0.087	158.840876	53.953250	2313.30	-237.00
4	GUIDE	500171544	7.85	469	-0.090	-0.002	0.058	0.099	158.880107	53.772629	1856.61	-702.91
5	GUIDE	500171344	8.43	470	0.122	-0.052	0.059	0.099	158.404020	53.216809	-350.49	-1122.68
6	GUIDE	500182496	8.89	470	0.146	0.138	0.076	0.118	158.371279	52.722772	-1808.69	-2150.92
7	GUIDE	500171880	9.65	469	0.044	-0.070	0.090	0.150	158.701962	53.717455	1458.35	-529.59

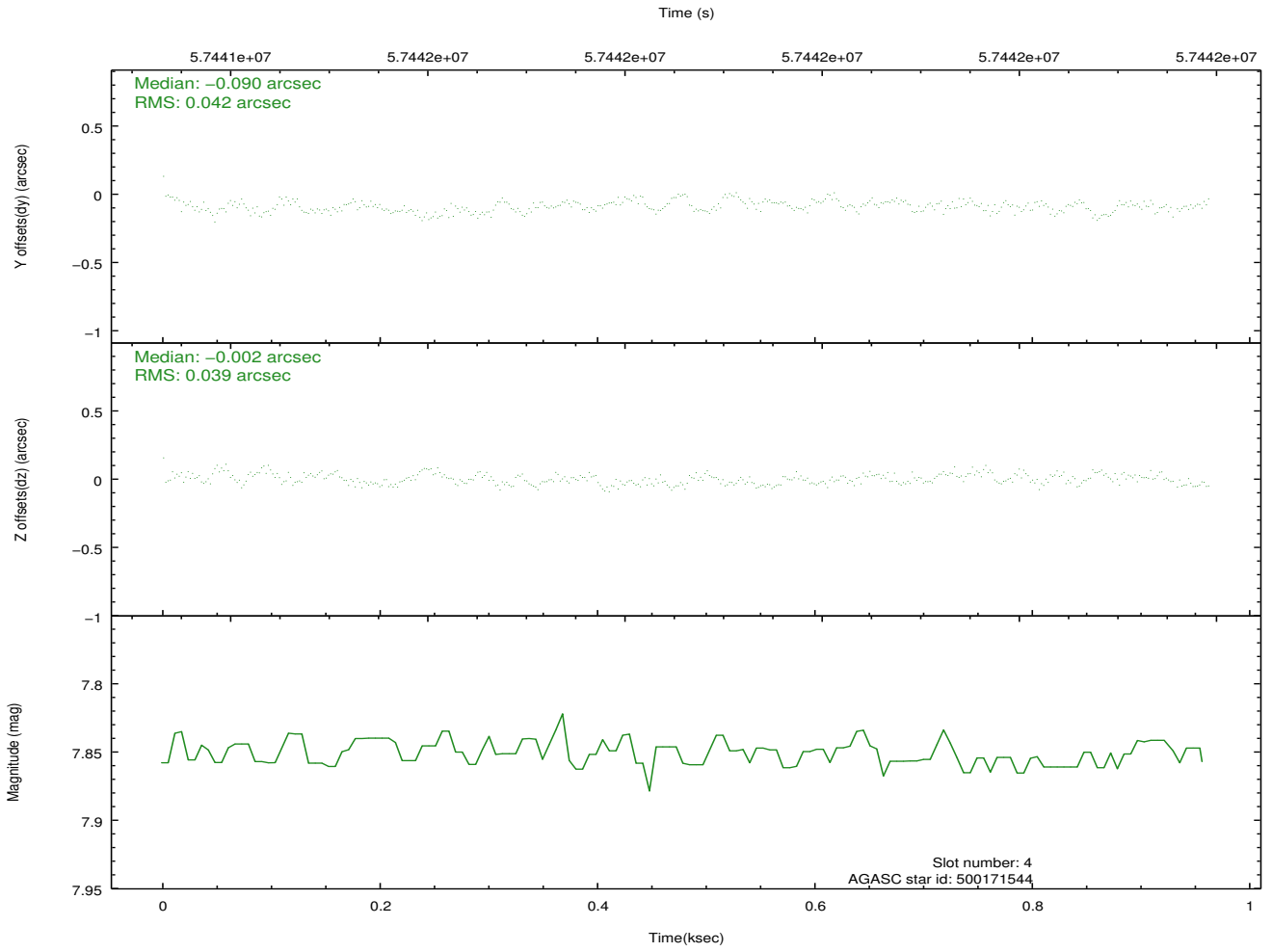
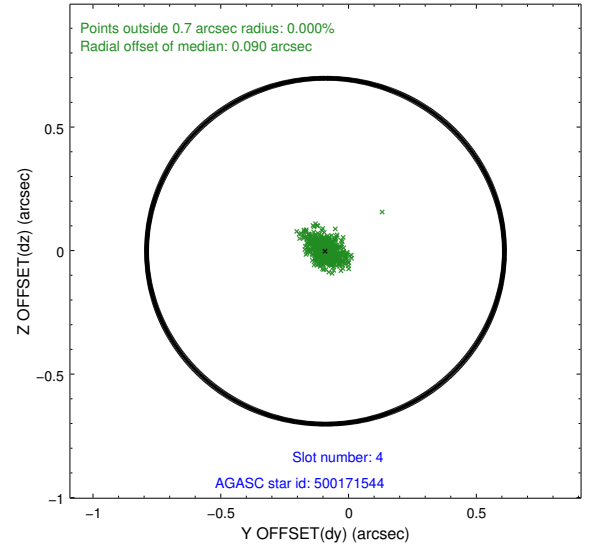
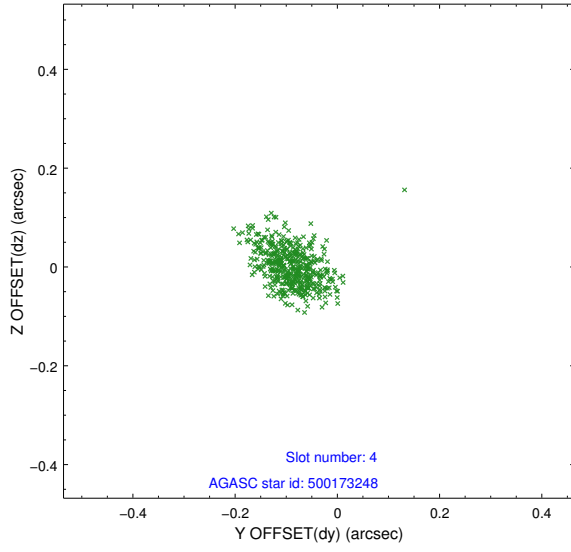


## 2.4 Star Slots

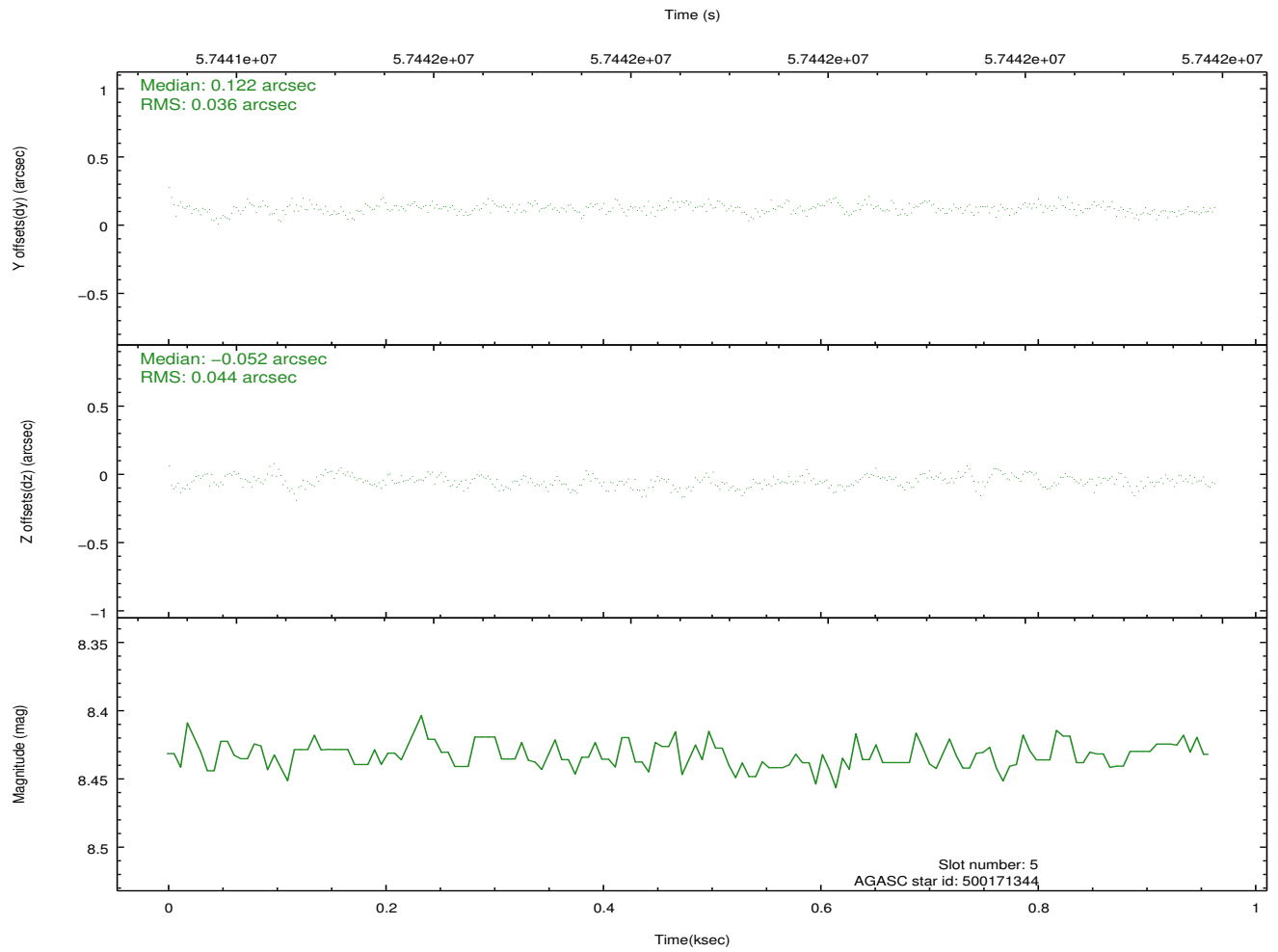
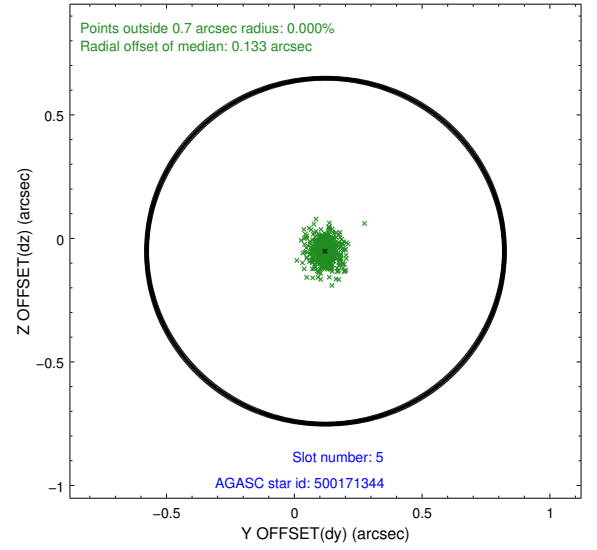
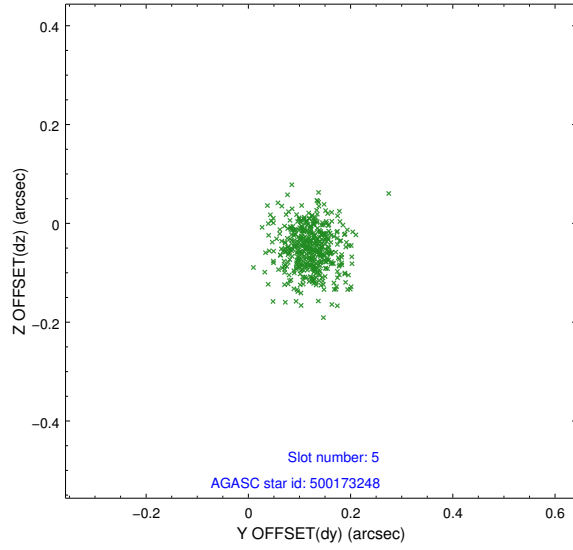
### 2.4.1 Slot 3



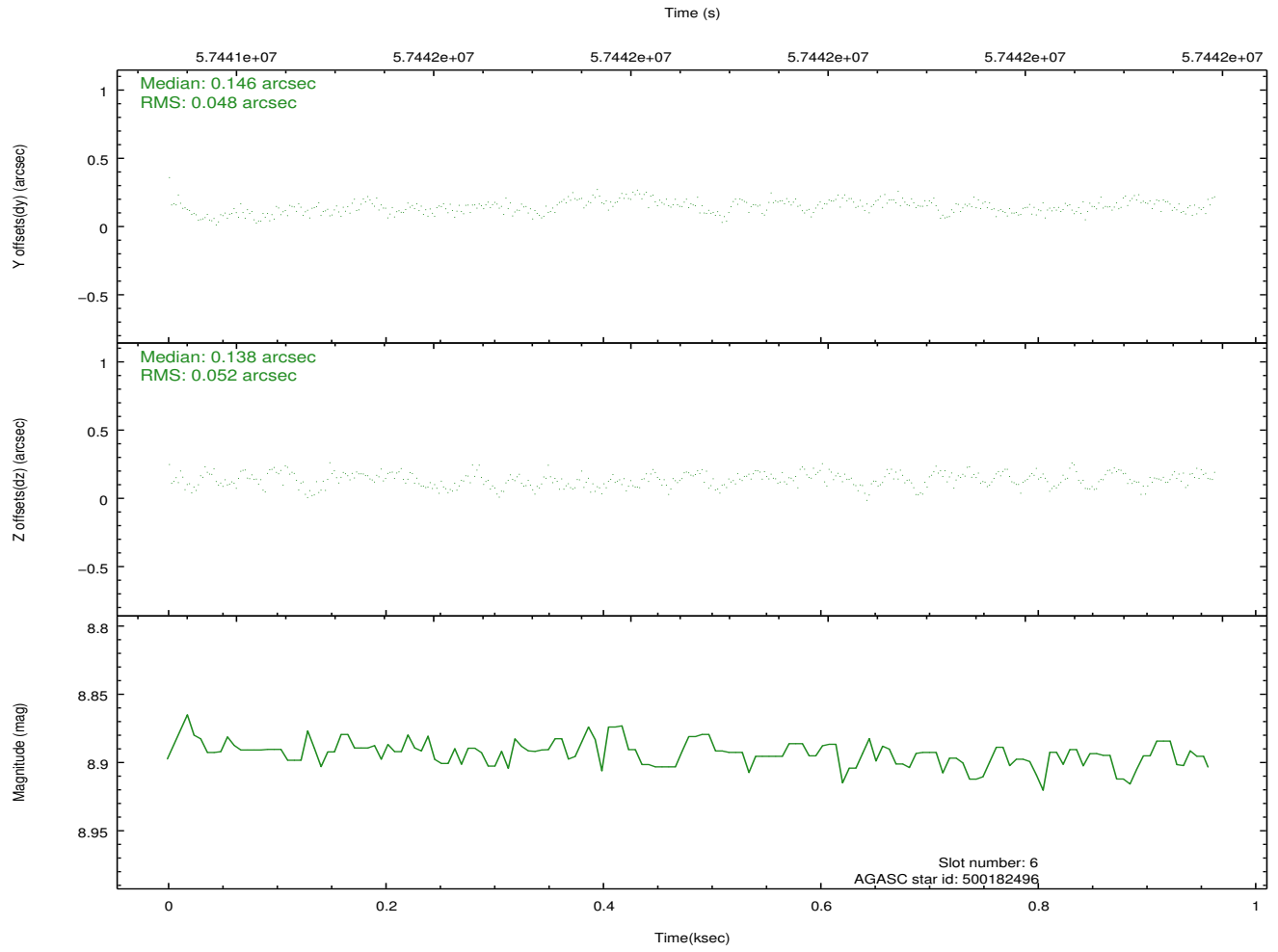
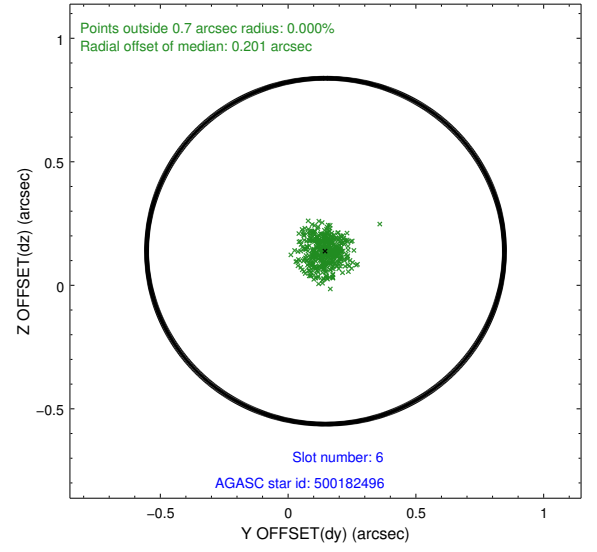
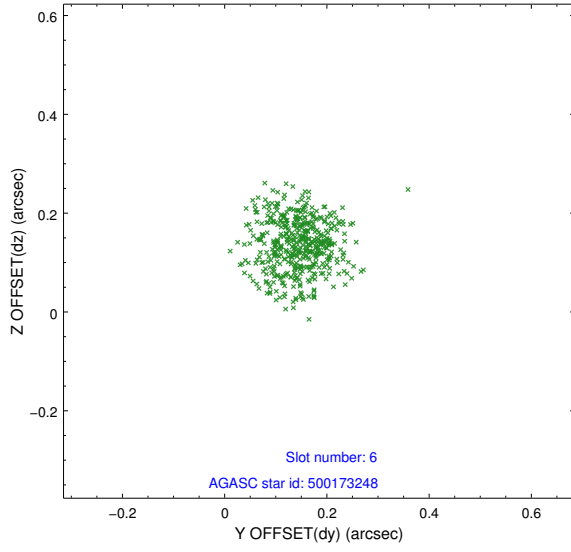
## 2.4.2 Slot 4



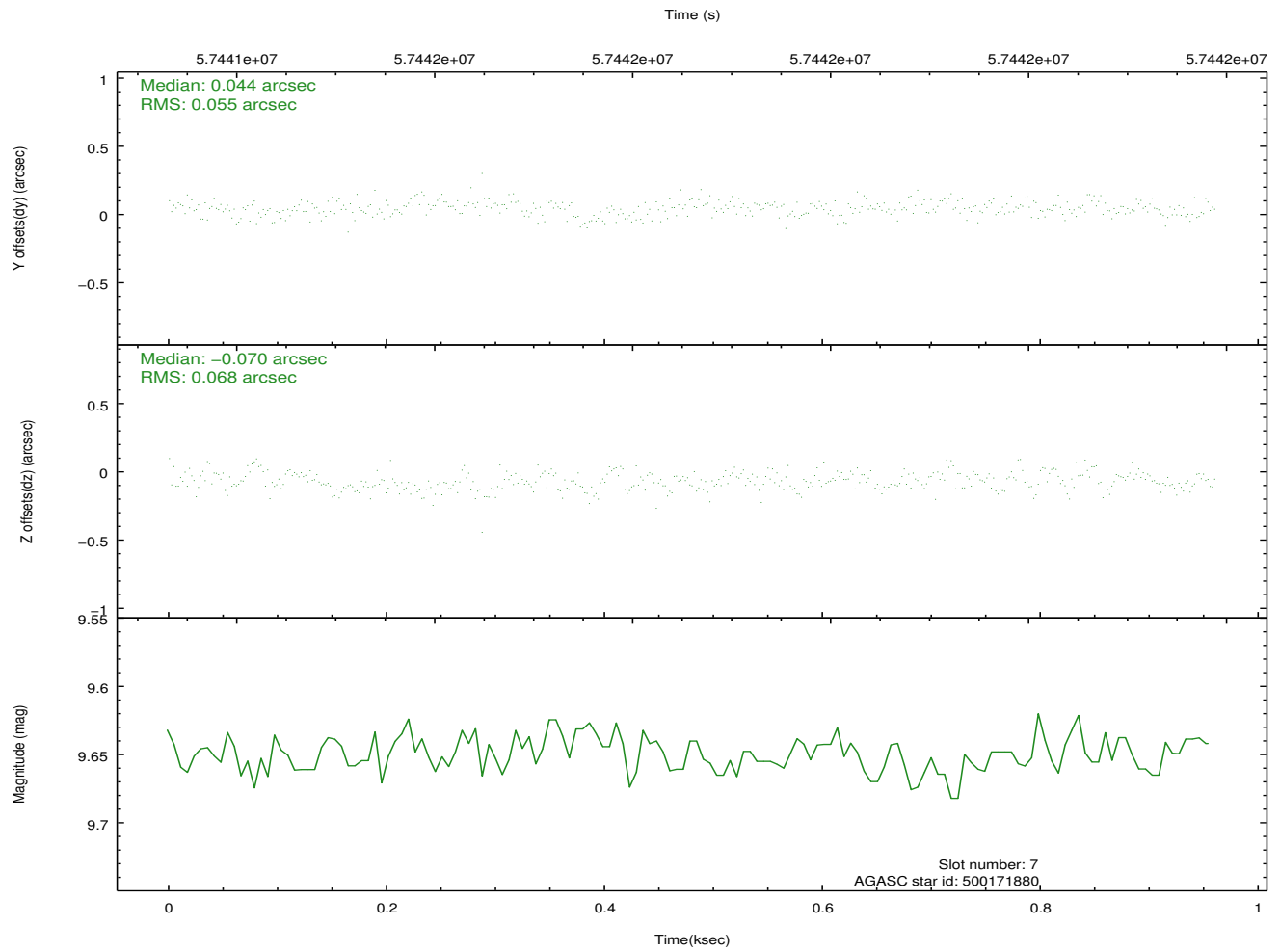
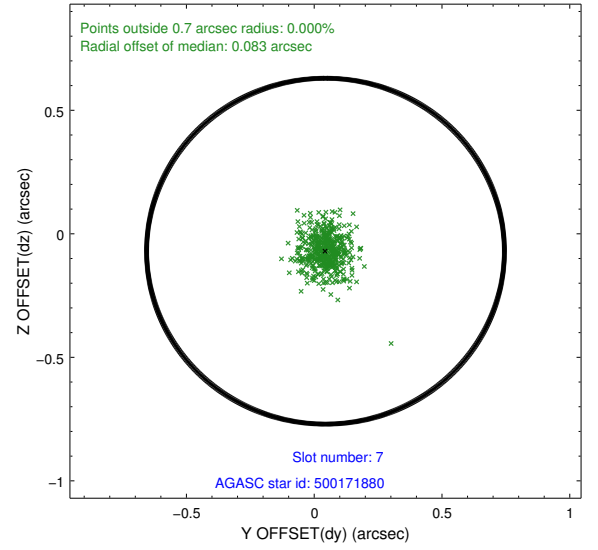
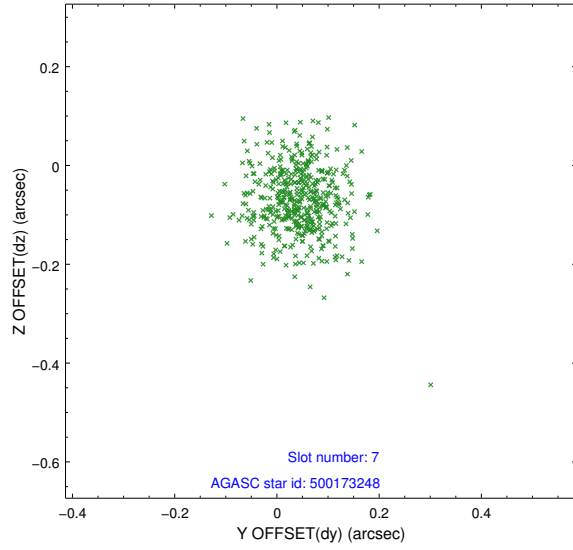
### 2.4.3 Slot 5



## 2.4.4 Slot 6

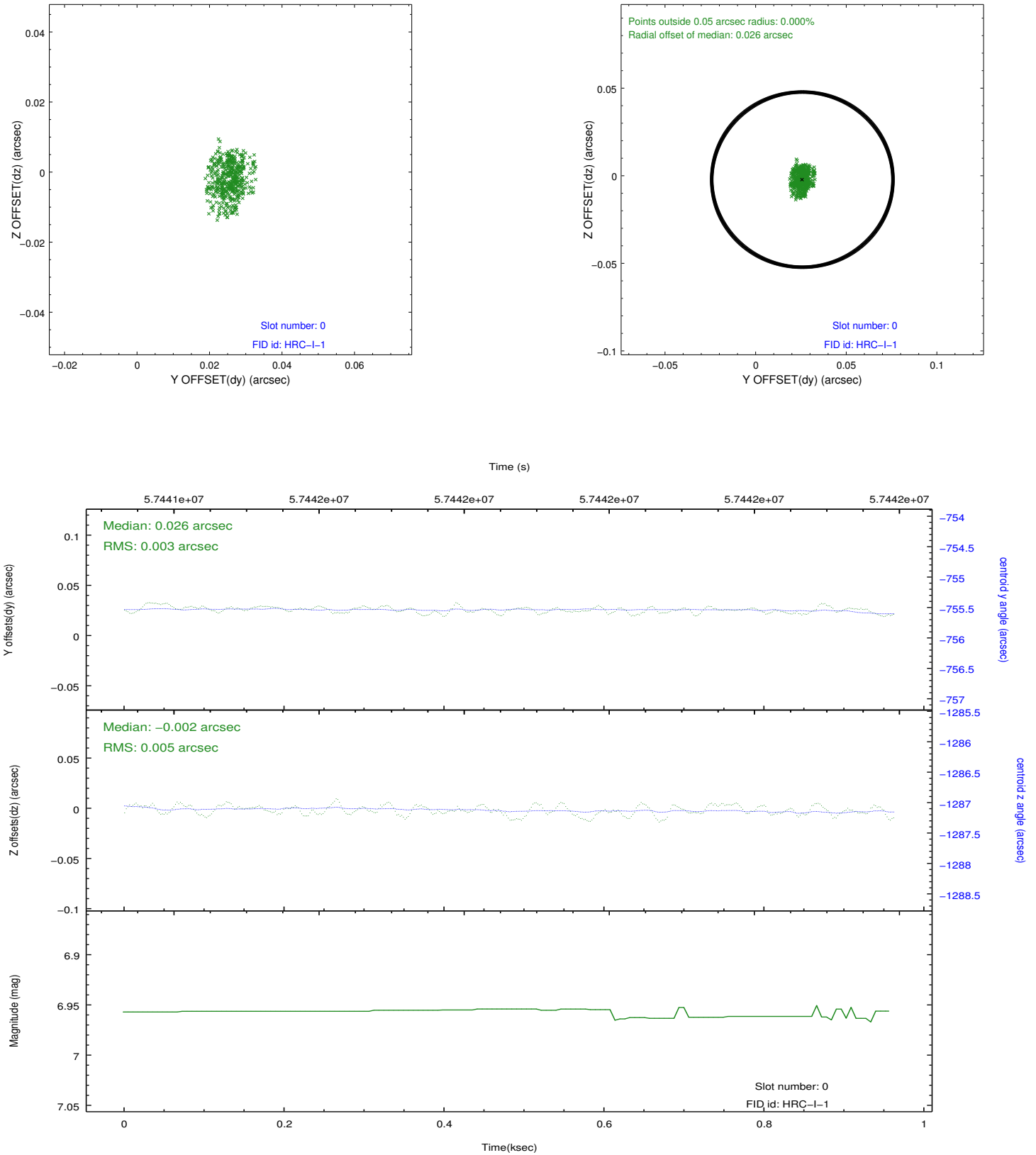


## 2.4.5 Slot 7

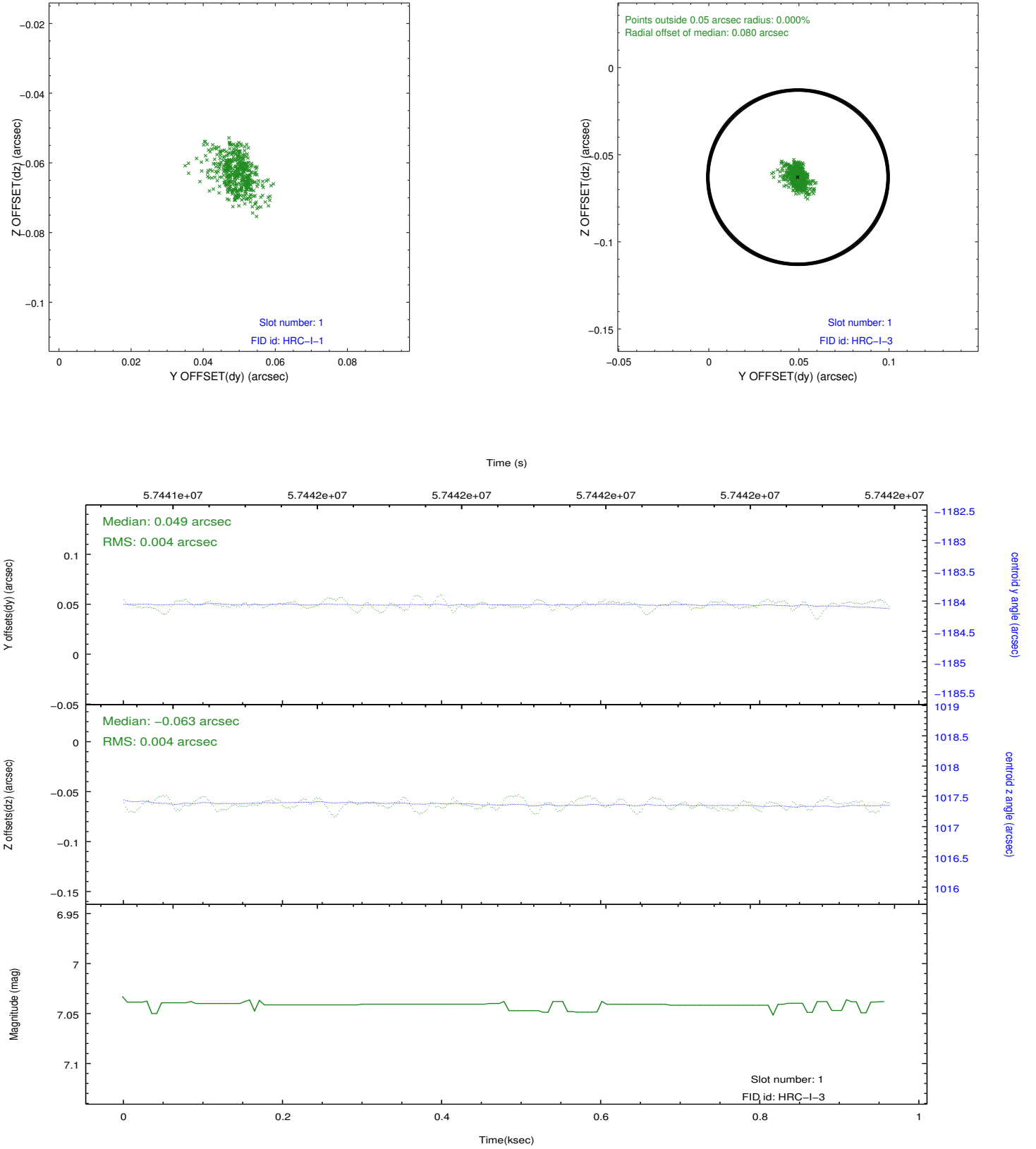


## 2.5 FID Slots

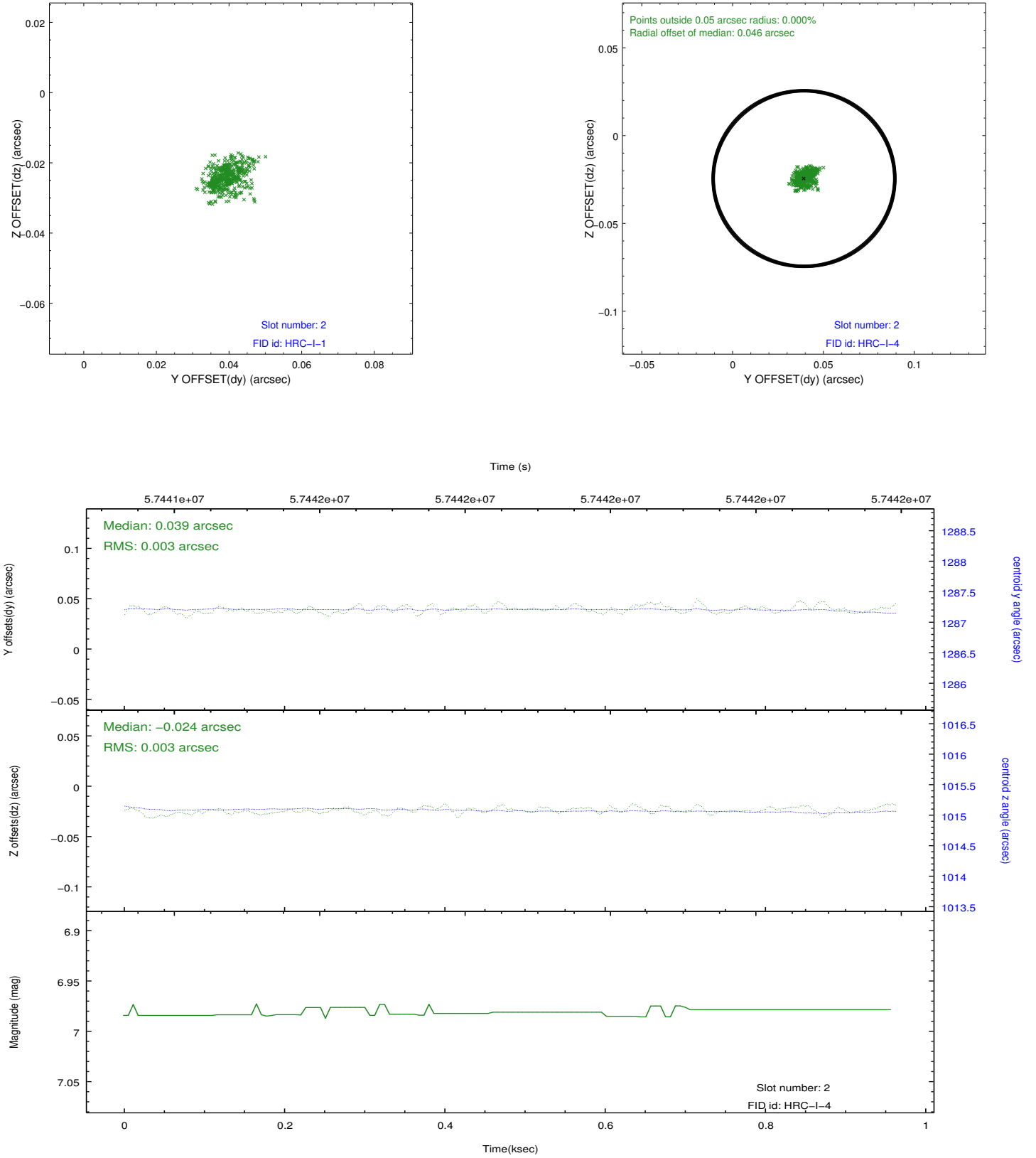
### 2.5.1 Slot 0



## 2.5.2 Slot 1



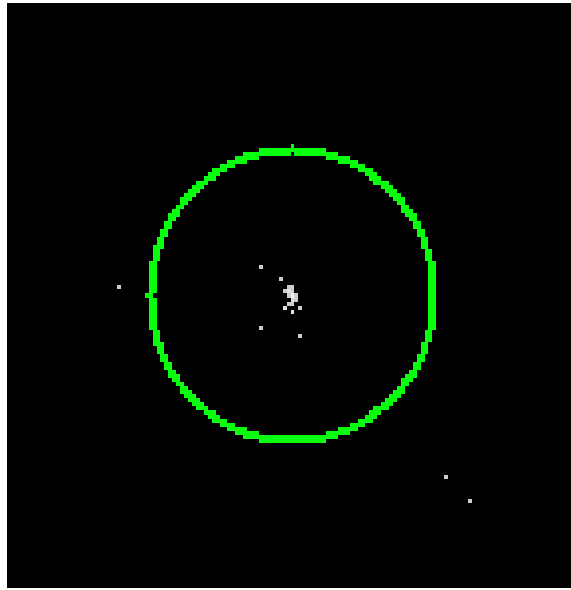
### 2.5.3 Slot 2



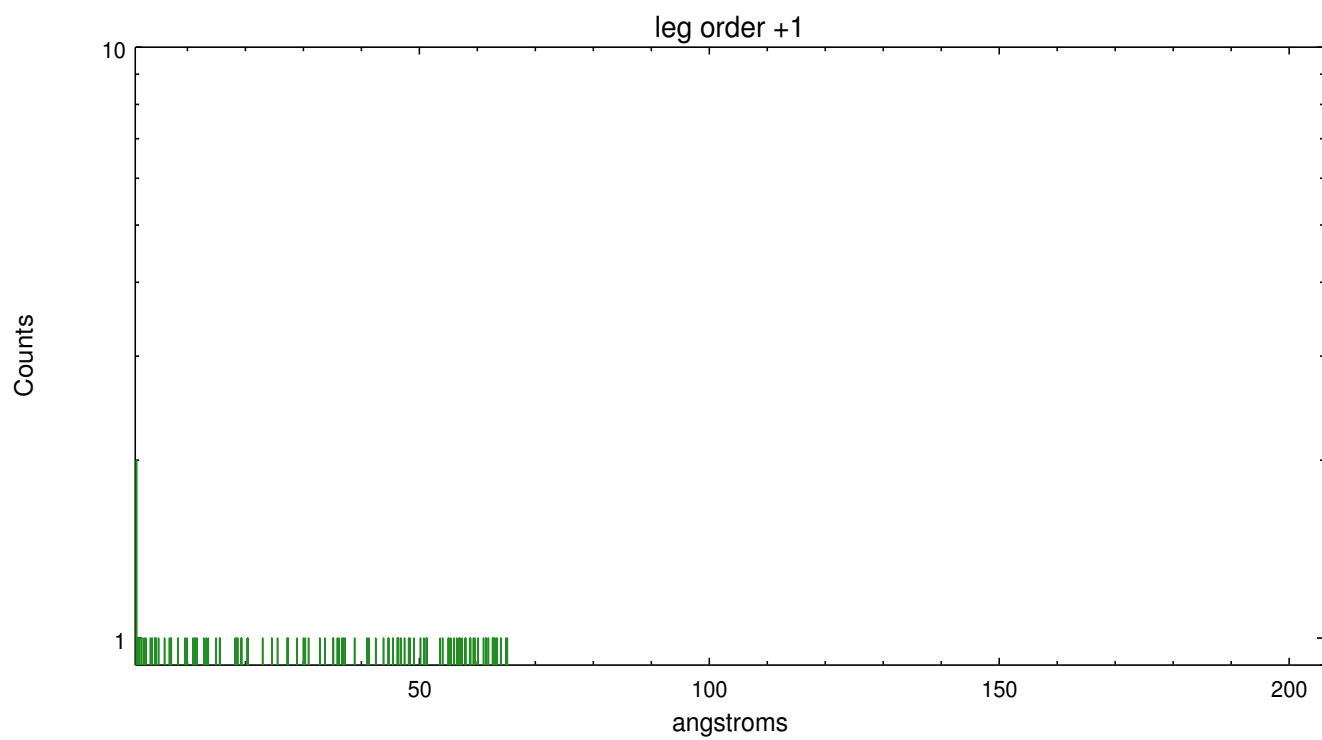
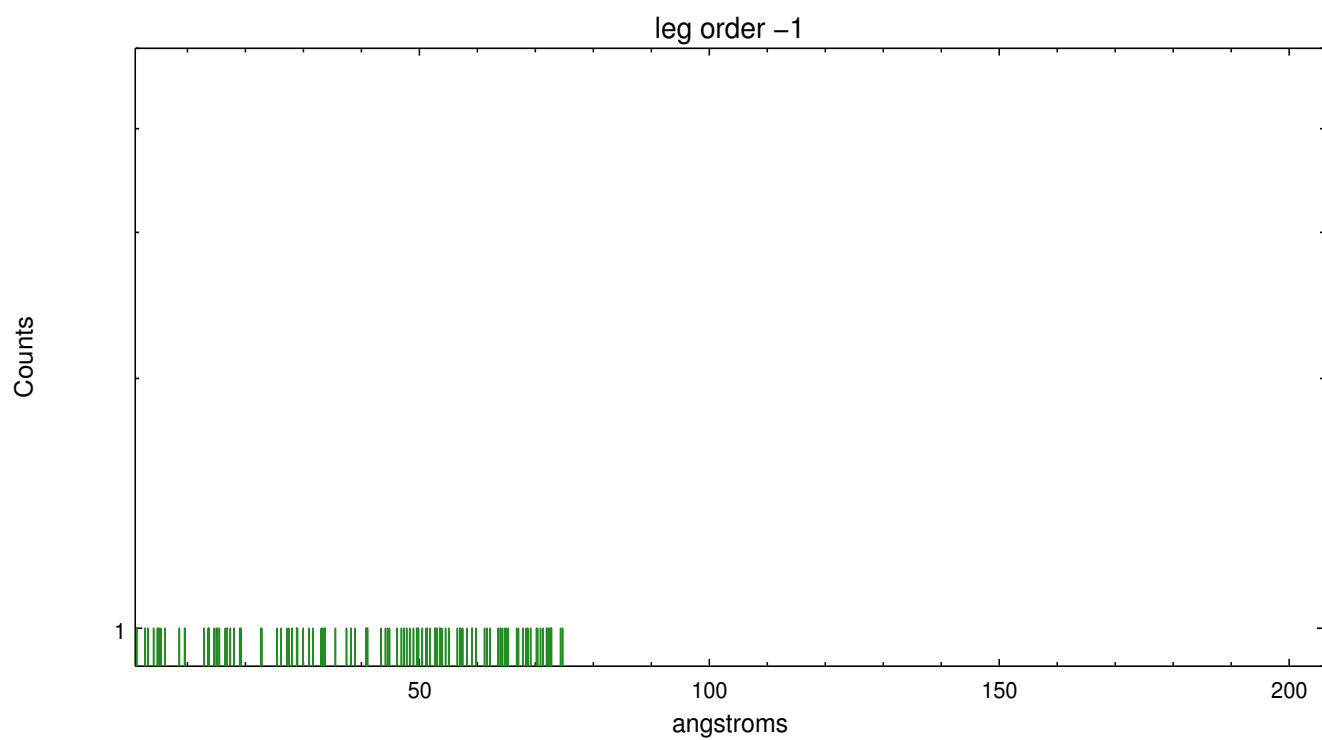


## 3 Gratings

### 3.1 LETG Arm



LETG Zero Order



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.08.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.751

## A.2 Comments

Off-axis target was not identified automatically by the software. In order to determine a reasonably accurate position for the zeroth order and then extract the spectrum, the brightest X-ray position in the source was identified using ds9 tools. The newly determined zeroth order coordinates (x=17271.8, y=15875.3) have been manually placed in the \*src1a.fits file. Please note that rerunning tgddetect for analysis purposes will not give the same zeroth order position as that used in this processing.