

# V&V Reference Report

## L2 ASCDS Version : 8.2.1

Observation 1202 - L2 Version 3

Chandra X-Ray Center

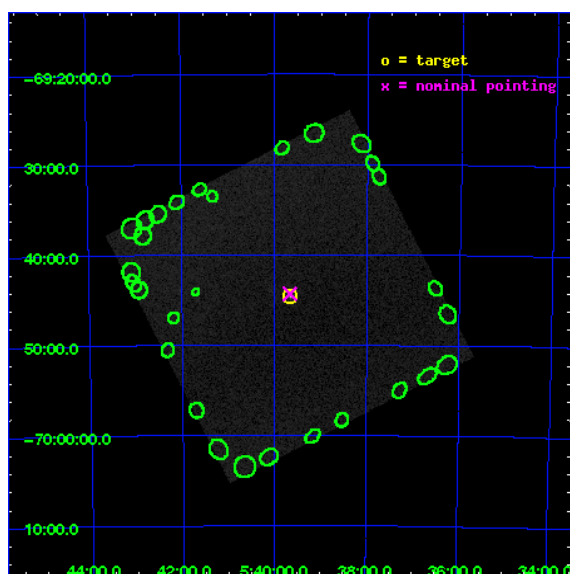
L2 Processing Date : Jan 12 2010

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# 1 Front

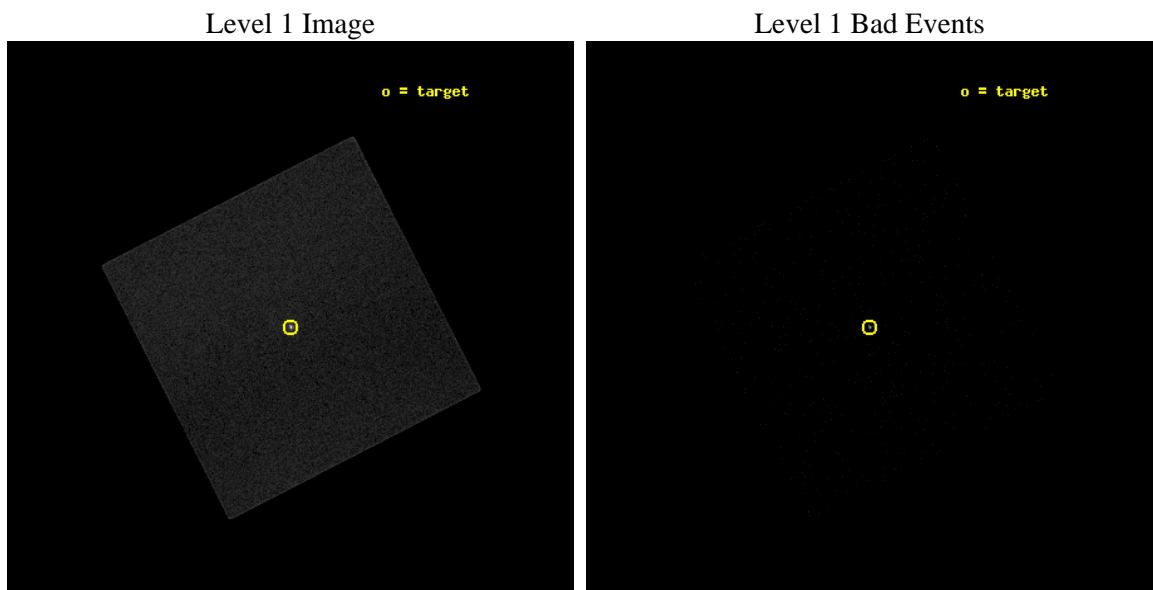
seq_num	480152	Sequence number
obs_id	1202	Observation id
title	&#160	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	LMC X-1	Source name
ra_targ	84.914583	Observer's specified target RA
dec_targ	-69.743611	Observer's specified target Dec
ra_nom	84.916227501519	Nominal RA
dec_nom	-69.738842788468	Nominal Dec
roll_nom	107.98920400651	Nominal Roll
revision	3	Processing version of data
ontime	3345.6001202017	[s]
livetime	3301.5600983155	Ontime multiplied by DTCOR
l2events	164048	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	3600.000000	Scheduled observation exposure time
ascdsver	8.2.1	Processing system revision	ontime	3345.6001202017	[s]
caldbver	4.1.5	&#160	l1events	267787	Number of level 1 events
date	2010-01-12T15:33:45	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

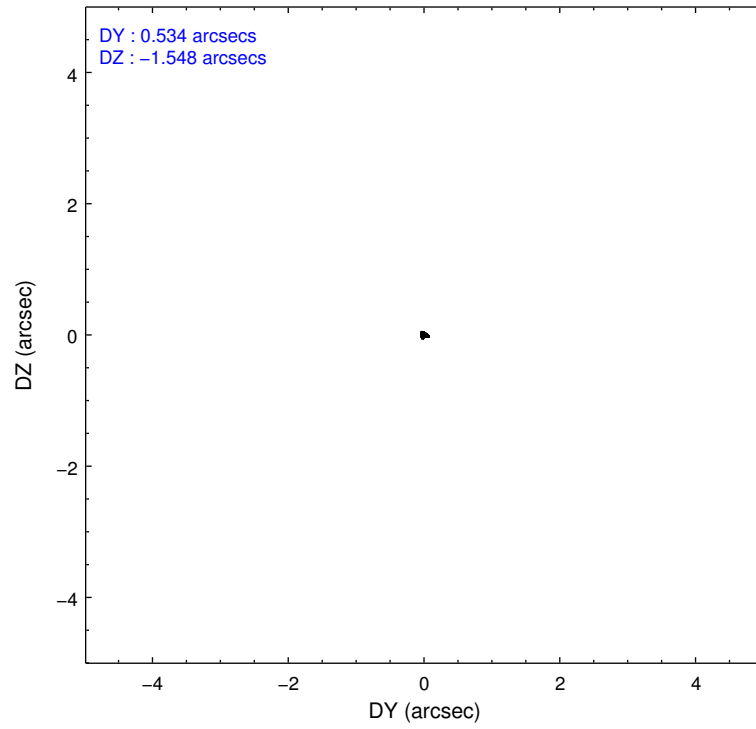
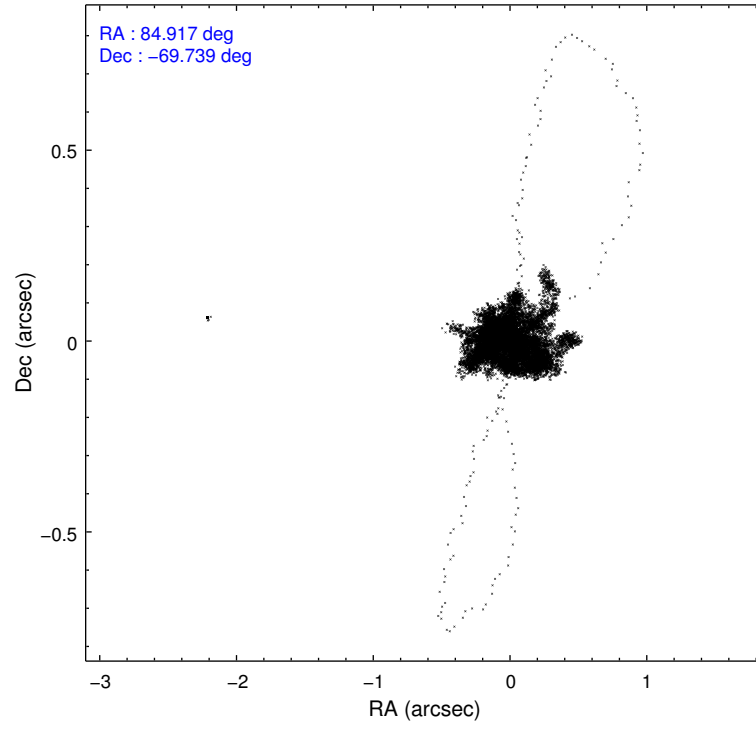
#### Level 1 Events

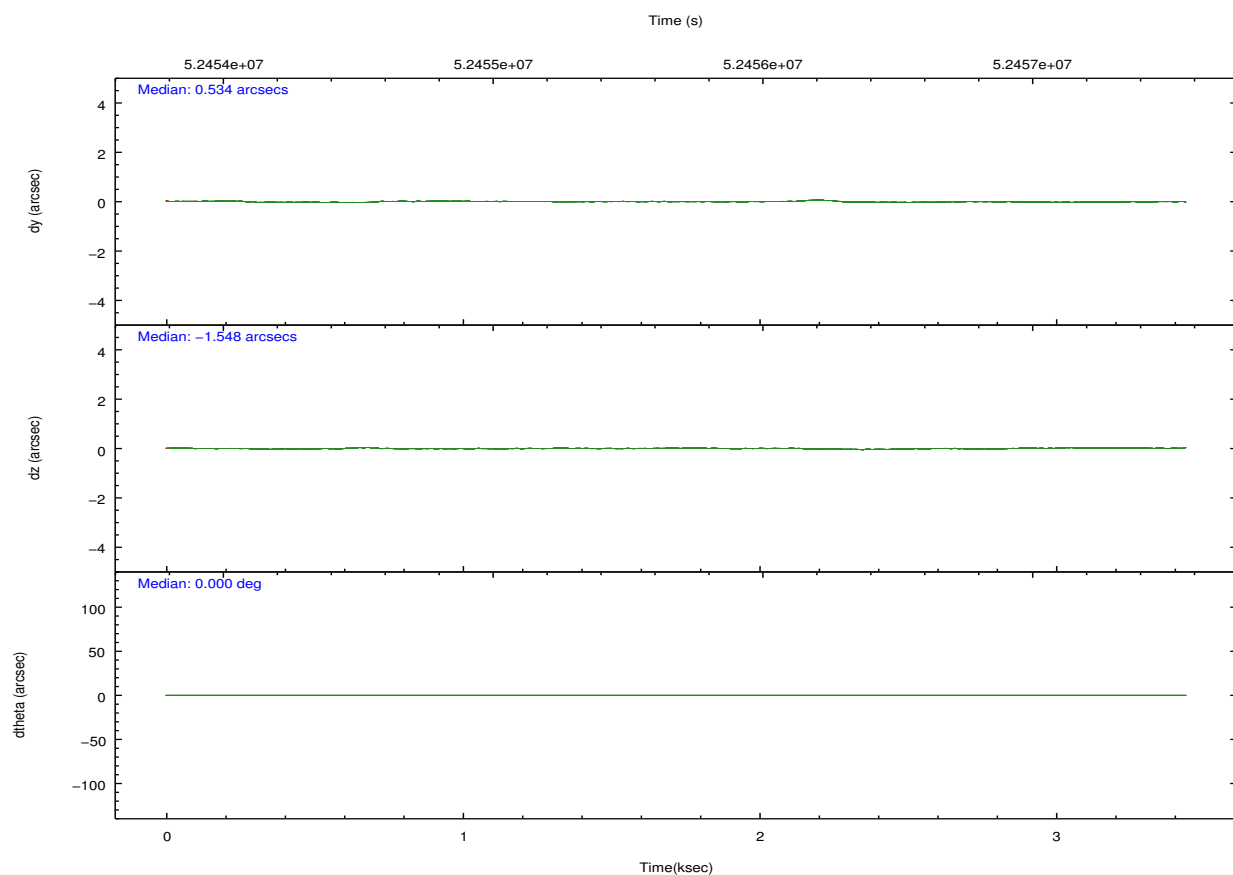
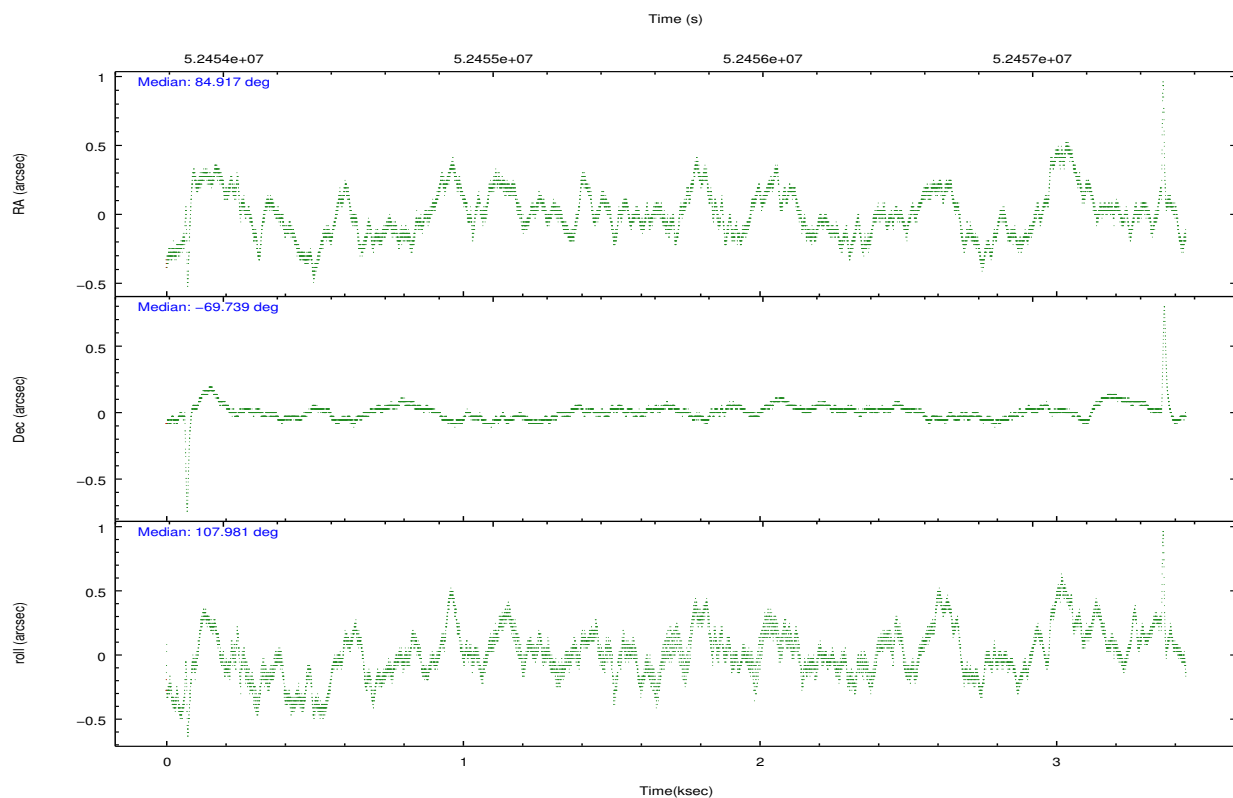
	<b>segment 0</b>
level 1 events	267787
rejected events	9050
rejected %	3%

## 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	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	84.974973	84.91622750151926			
Pointing Dec	-69.757107	-69.7388427884682			
Pointing Roll	108.139814	107.9892040065074			
SIM focus pos (mm)	-0.040293	0.255451383487682			
SIM defocus (mm)	1	1.295744004146556			
SIM translation stage pos (mm)	126.985494	126.9829799899862			
SIM translation stage offset (mm)	0	0.002508901615314585			
Observation start time	52453864.184000	52453956.922053			
Observation start date	1999-08-31T02:30:00	1999-08-31T02:32:36			
Observation end time	52457464.184000	52457396.822176			
Observation end date	1999-08-31T03:30:00	1999-08-31T03:29:56			

## 2.3 Aspect





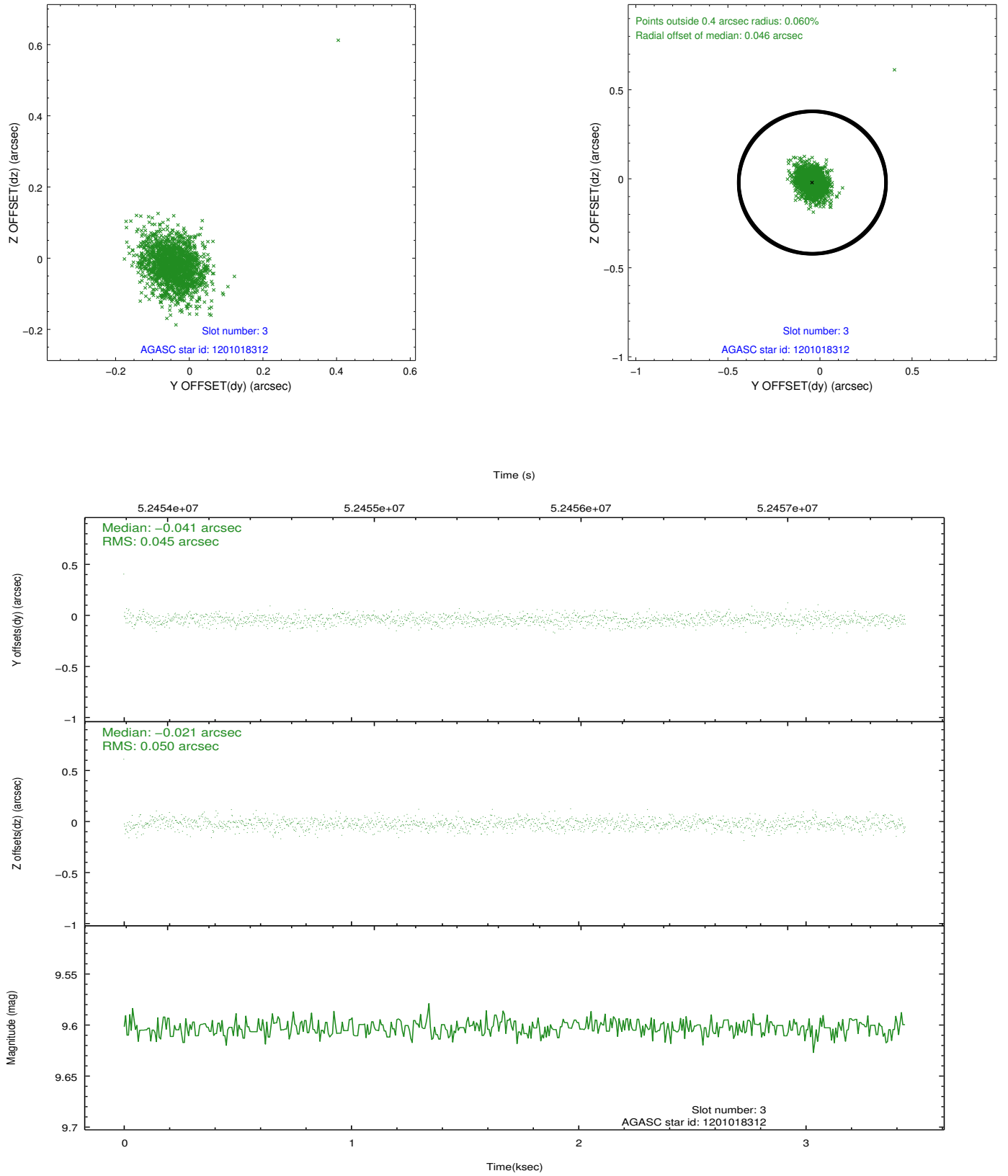
Slot Statistics

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	1678	0.037	-0.032	0.000	0.000	0.000000	0.000000	-755.81	-1286.38
1	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
2	BAD	HRC-I-4	6.98	353	0.231	-0.289	0.011	0.023	0.000000	0.000000	1284.96	1012.49
3	GUIDE	1201018312	9.60	1678	-0.041	-0.021	0.069	0.112	86.298231	-69.115627	1649.21	-2326.19
4	GUIDE	1201407840	8.00	1678	-0.126	0.104	0.032	0.052	83.696303	-70.172201	-948.57	1953.19
5	GUIDE	1201411368	10.05	1674	0.149	-0.185	0.090	0.158	83.629696	-70.495613	-2040.48	2371.14
6	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	1201540776	9.60	1674	0.021	0.104	0.064	0.107	85.107945	-69.858480	-399.07	-40.92

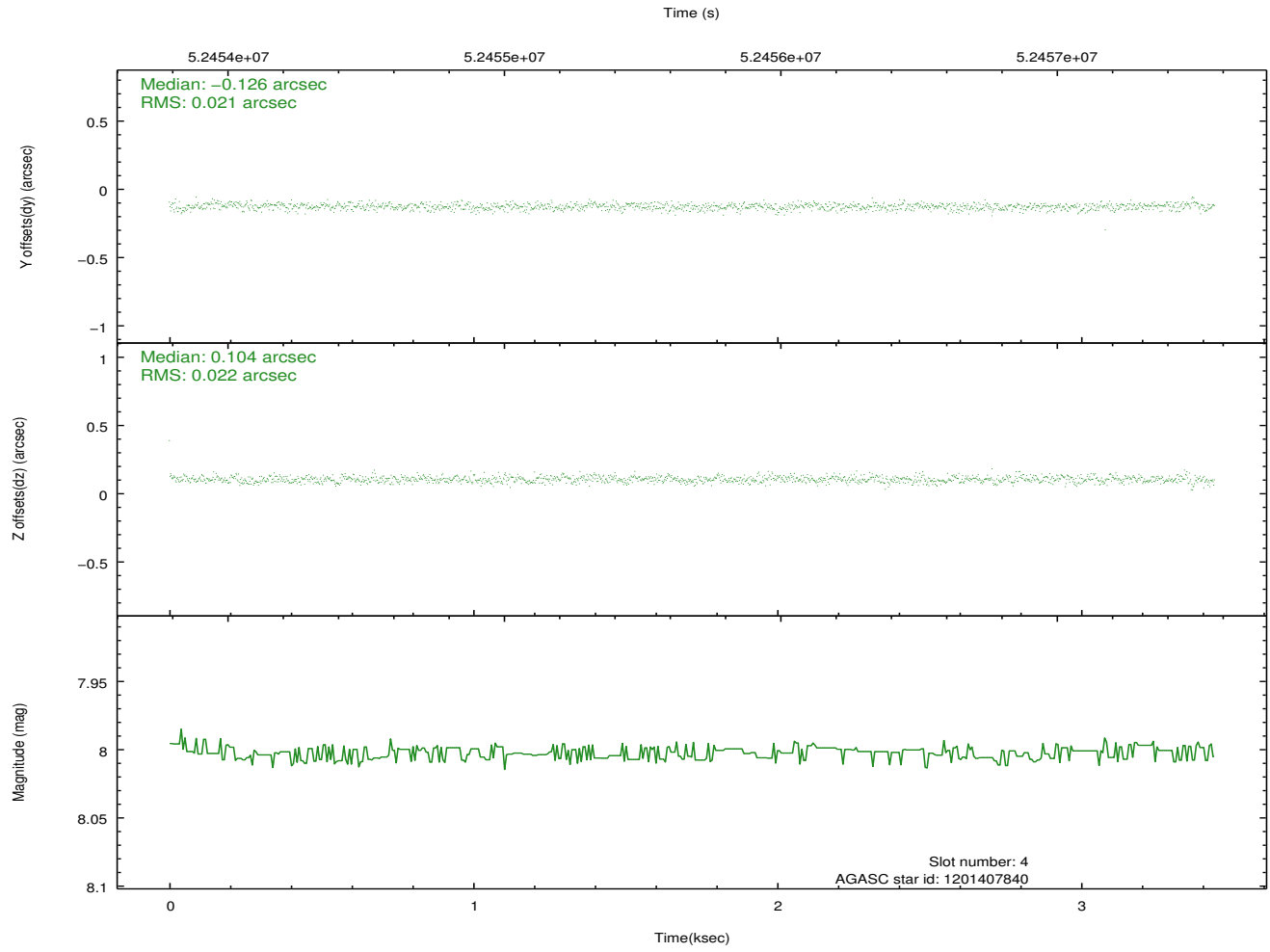
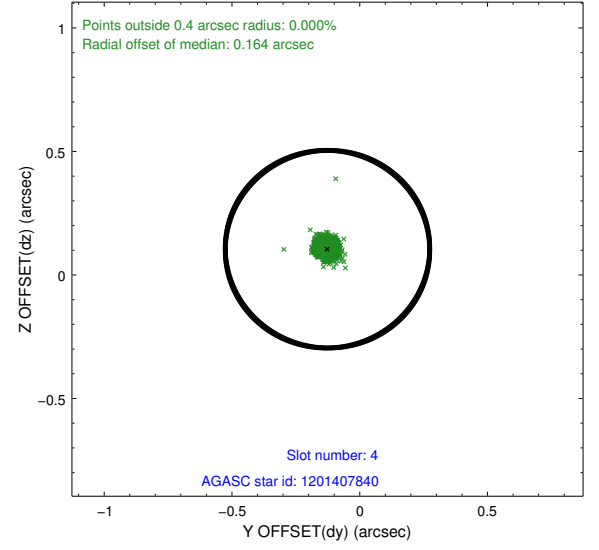
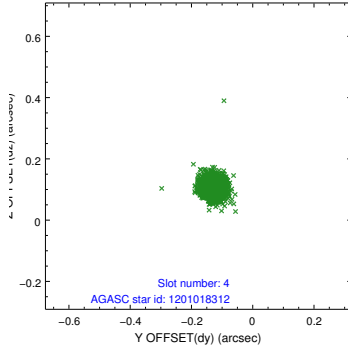


## 2.4 Star Slots

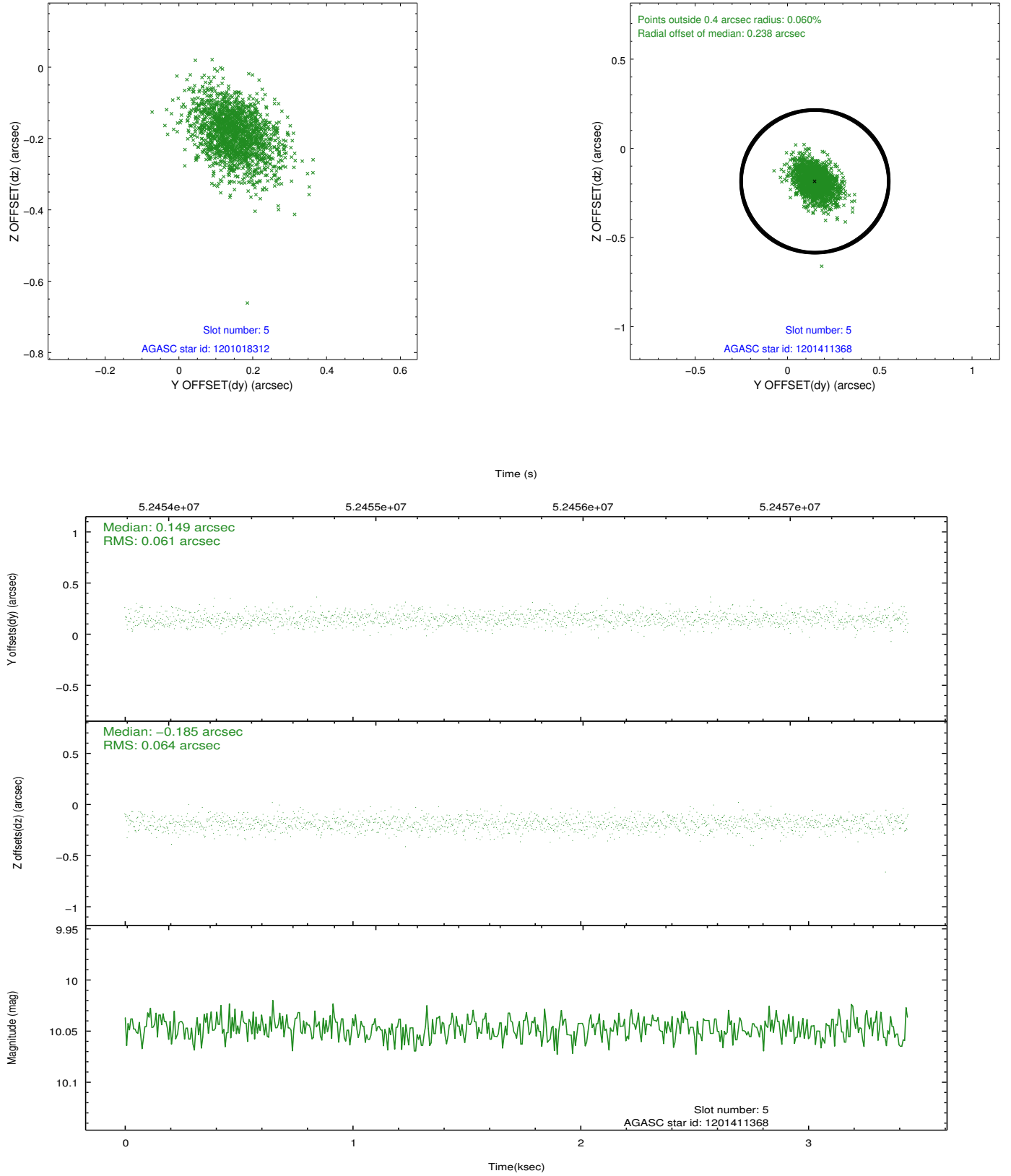
### 2.4.1 Slot 3



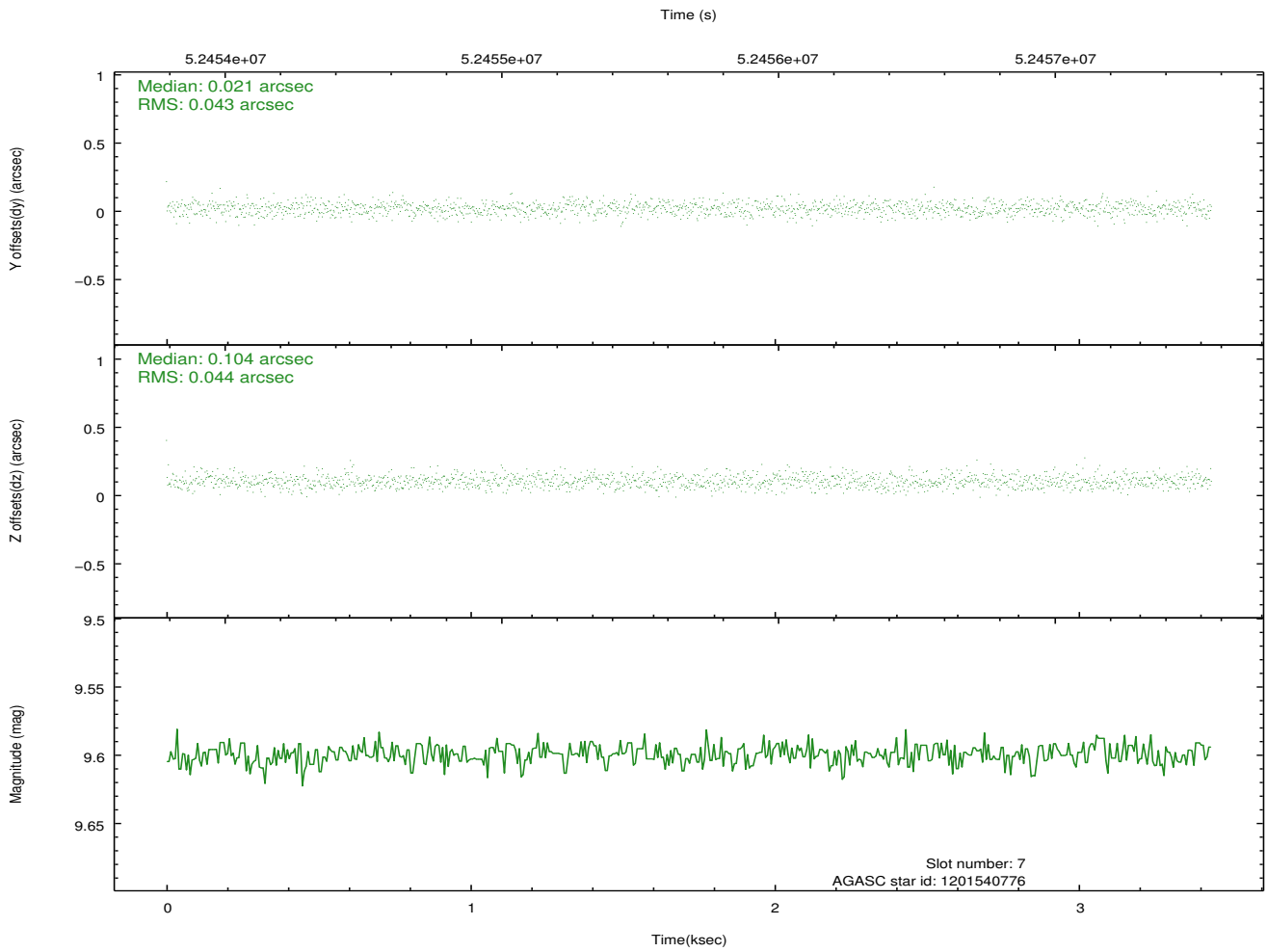
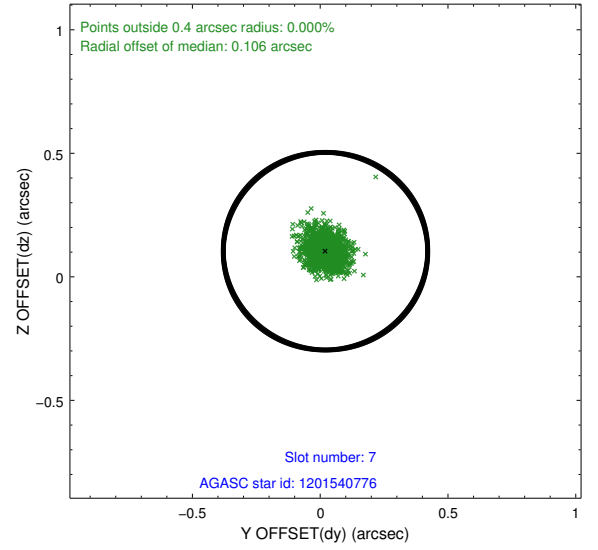
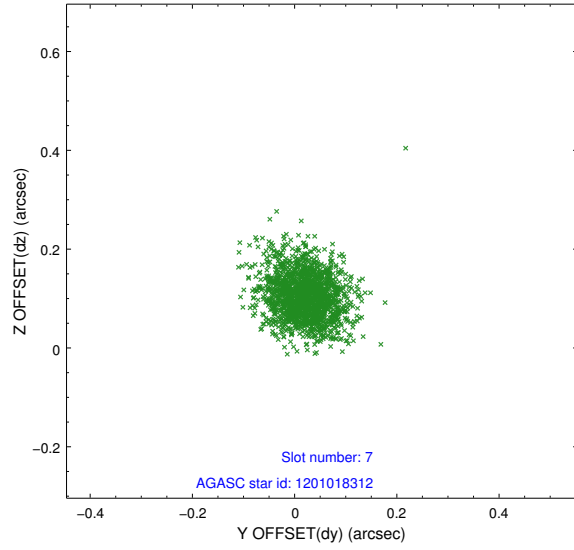
## 2.4.2 Slot 4



### 2.4.3 Slot 5

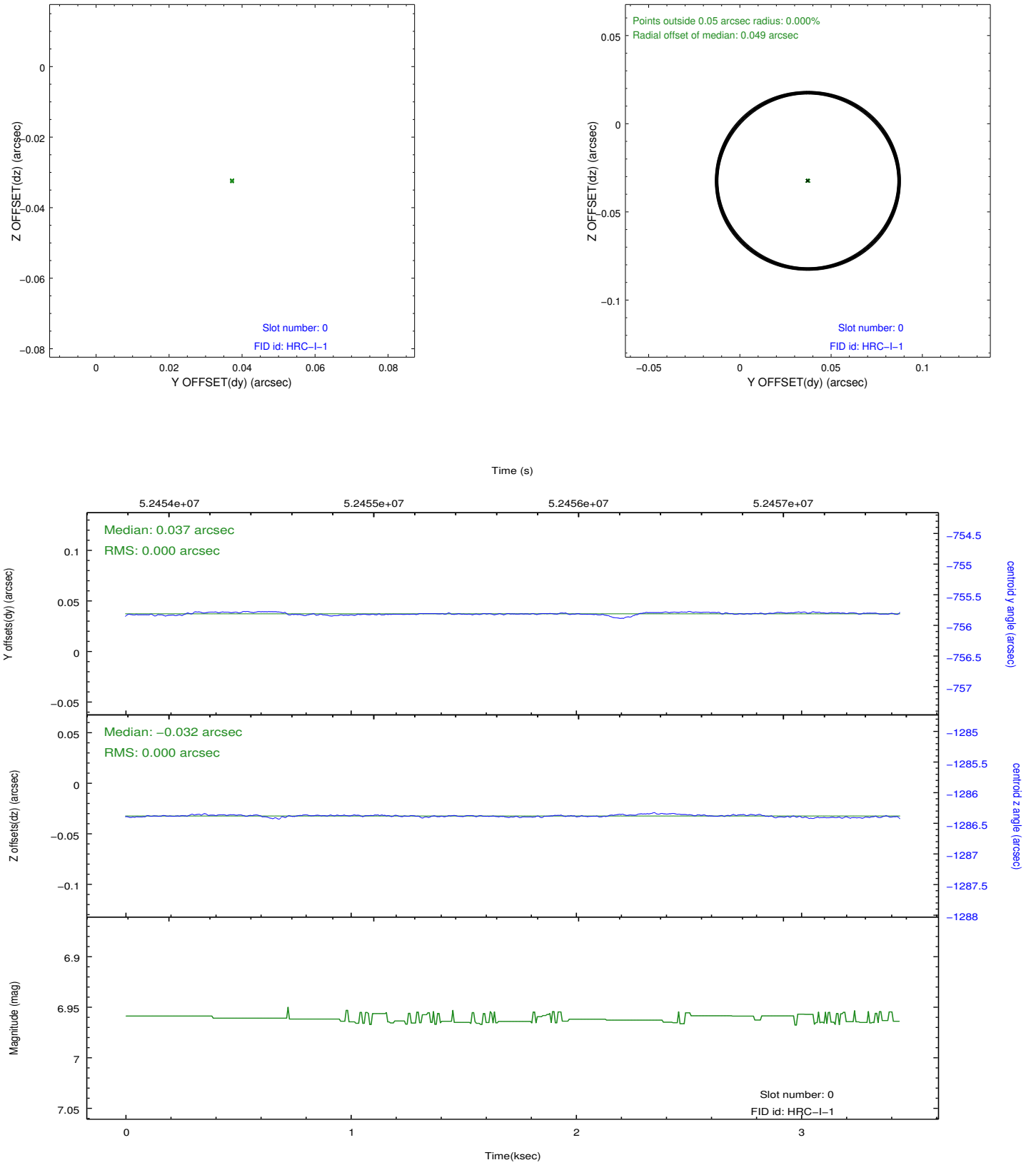


## 2.4.4 Slot 7

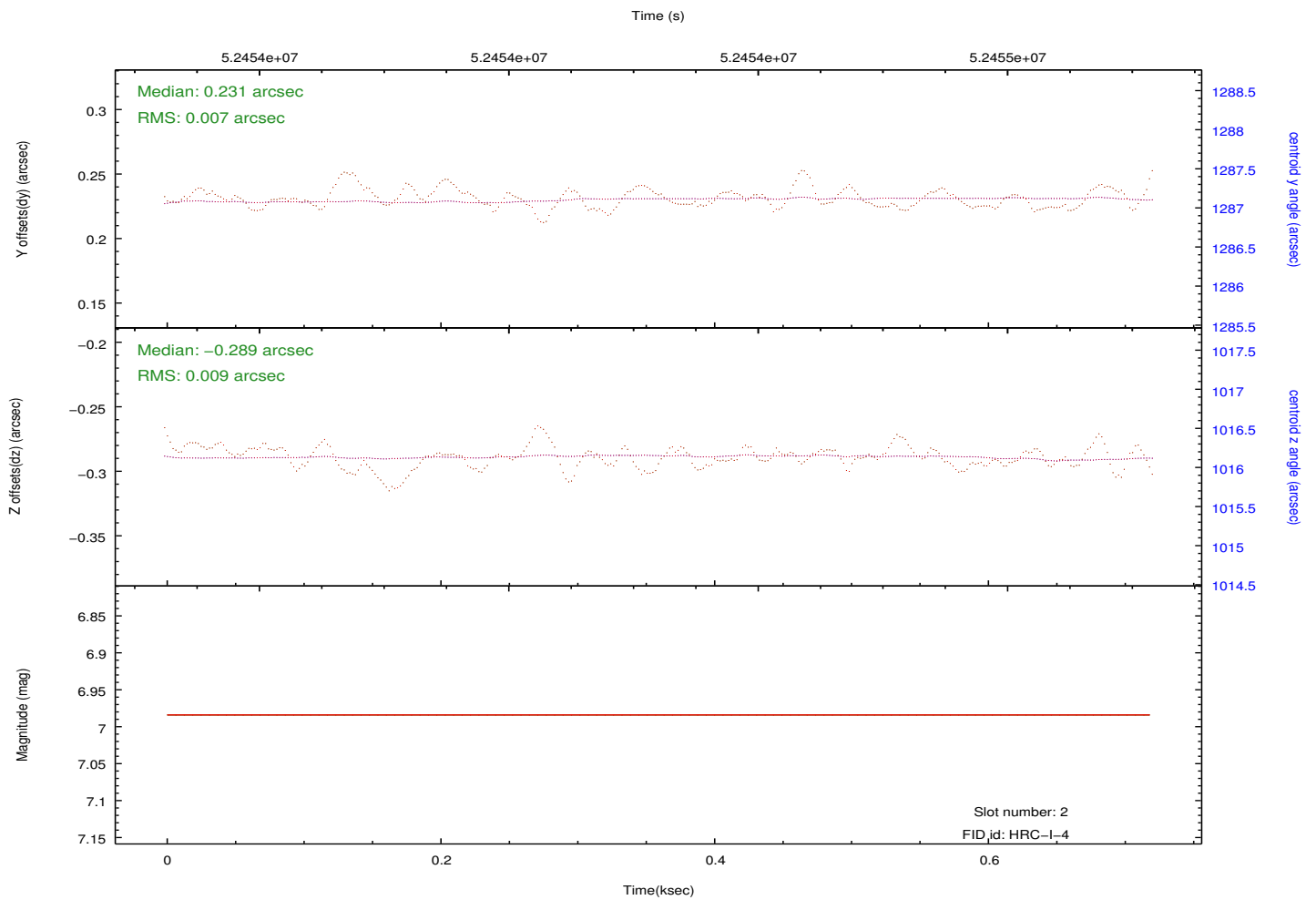
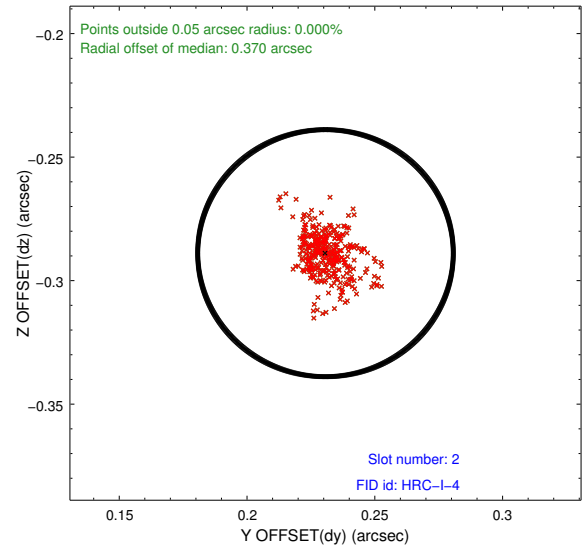
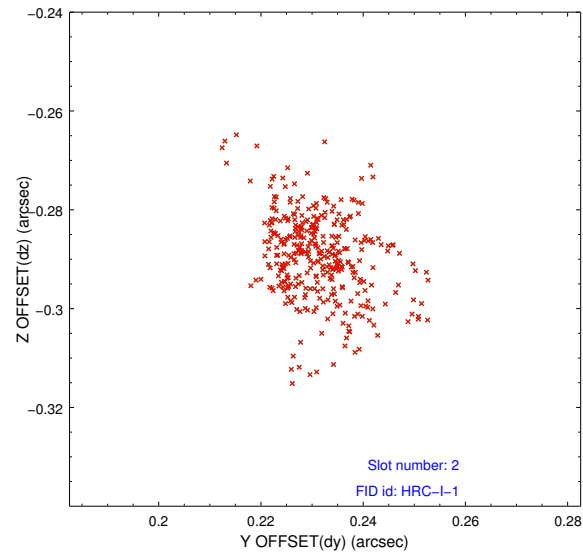


## 2.5 FID Slots

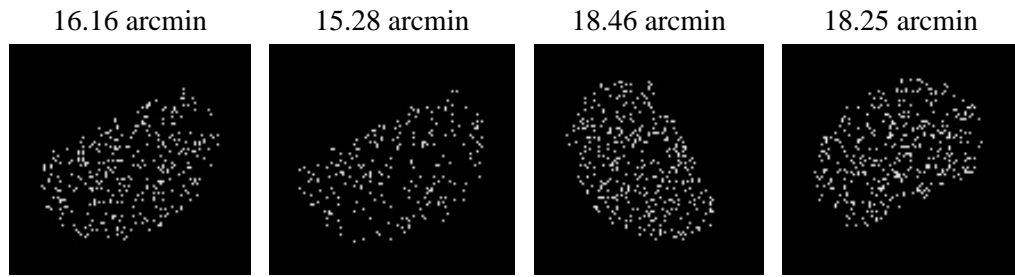
### 2.5.1 Slot 0



## 2.5.2 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.01.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.345

## A.2 Comments

HRC-I shutter focus test.

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Fid lights in slots 1 and 2 were blocked by the HRC shutter. The aspect solution is expected to be degraded when using only 1 fid light. Also, the guide star in slot 6 was not planned for this observation.

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