

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2937 - L2 Version 4  
Chandra X-Ray Center

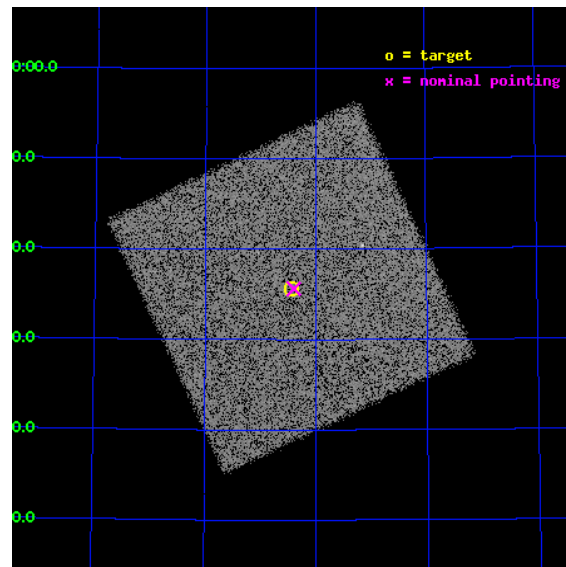
L2 Processing Date : Oct 1 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Parameters . . . . .	4
2.1.3	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.5	FID Slots . . . . .	13
2.5.1	Slot 0 . . . . .	13
2.5.2	Slot 1 . . . . .	14
2.5.3	Slot 2 . . . . .	15
<b>A</b>	<b>Summary</b>	<b>16</b>
A.1	Status . . . . .	16
A.2	Comments . . . . .	16

# 1 Front

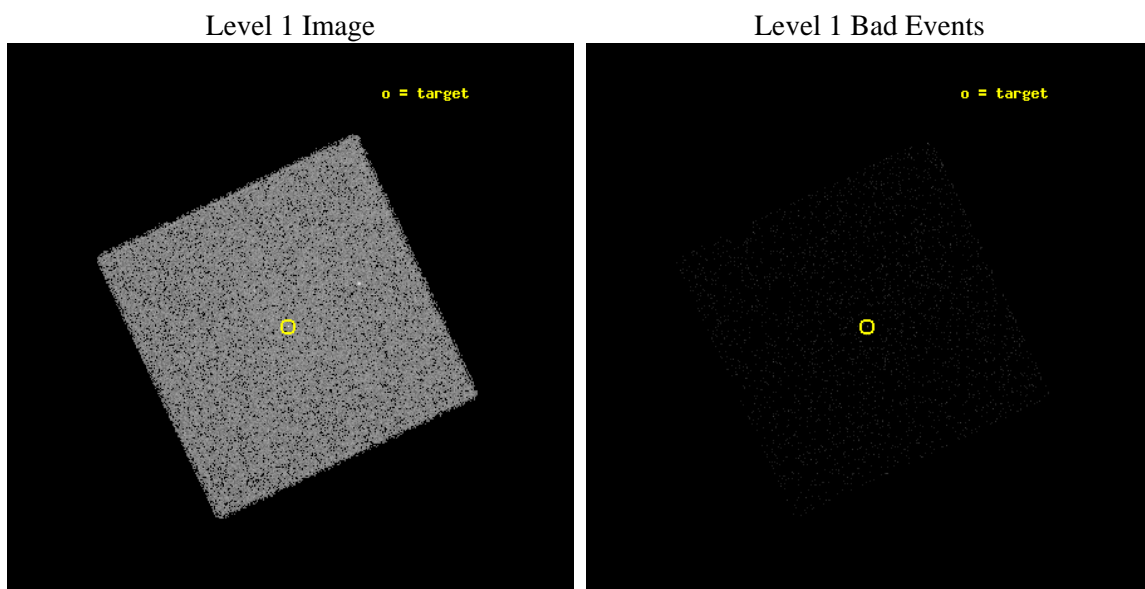
seq_num	600274	Sequence number
obs_id	2937	Observation id
title	UNVEILING THE NATURE OF ULTRA LUMINOUS X-RAY SOURCES IN NEARBY SPIRAL GALAXIES - REALLY ~100 SOLAR MASS BLACK HOLES ? -	Proposal titl
observer	MR. MASAHIKO SUGIHO	Principal investigator
object	NGC2403 S3	Source name
ra_targ	114.110417	Observer's specified target RA [deg]
dec_targ	65.593611	Observer's specified target Dec [deg]
ra_nom	114.09942735501	Nominal RA [deg]
dec_nom	65.59374543863	Nominal Dec [deg]
roll_nom	199.79559971207	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2766.7313614786	[s]
livetime	2752.2157928774	Ontime multiplied by DTCOR
l2events	73362	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2766.7313614786	[s]
caldbver	4.5.2	&#160	l1events	140792	Number of level 1 events
date	2012-10-01T03:14:37	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

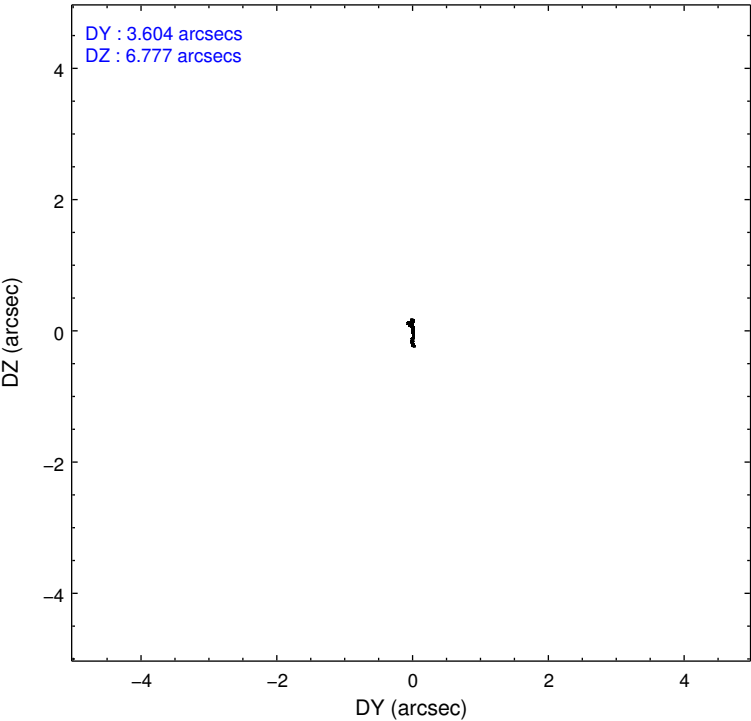
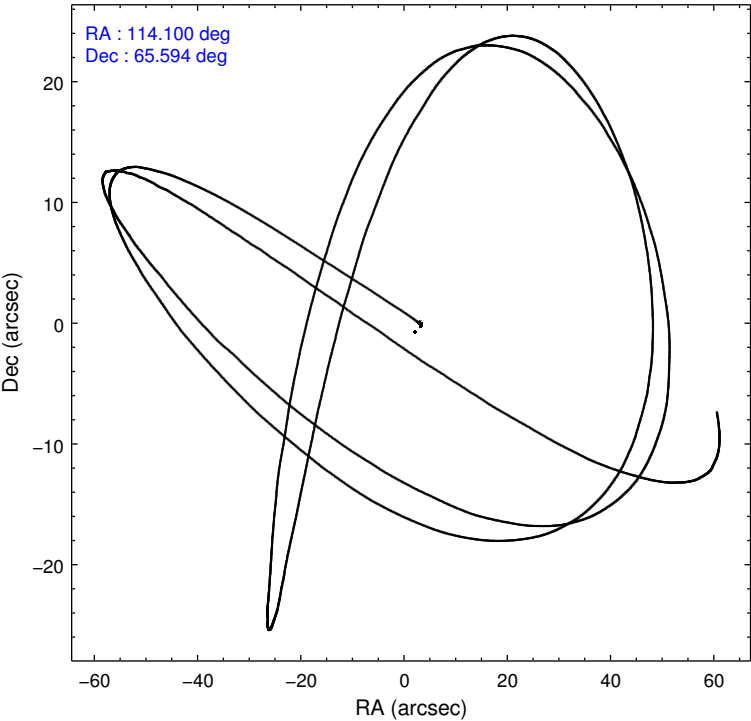
#### Level 1 Events

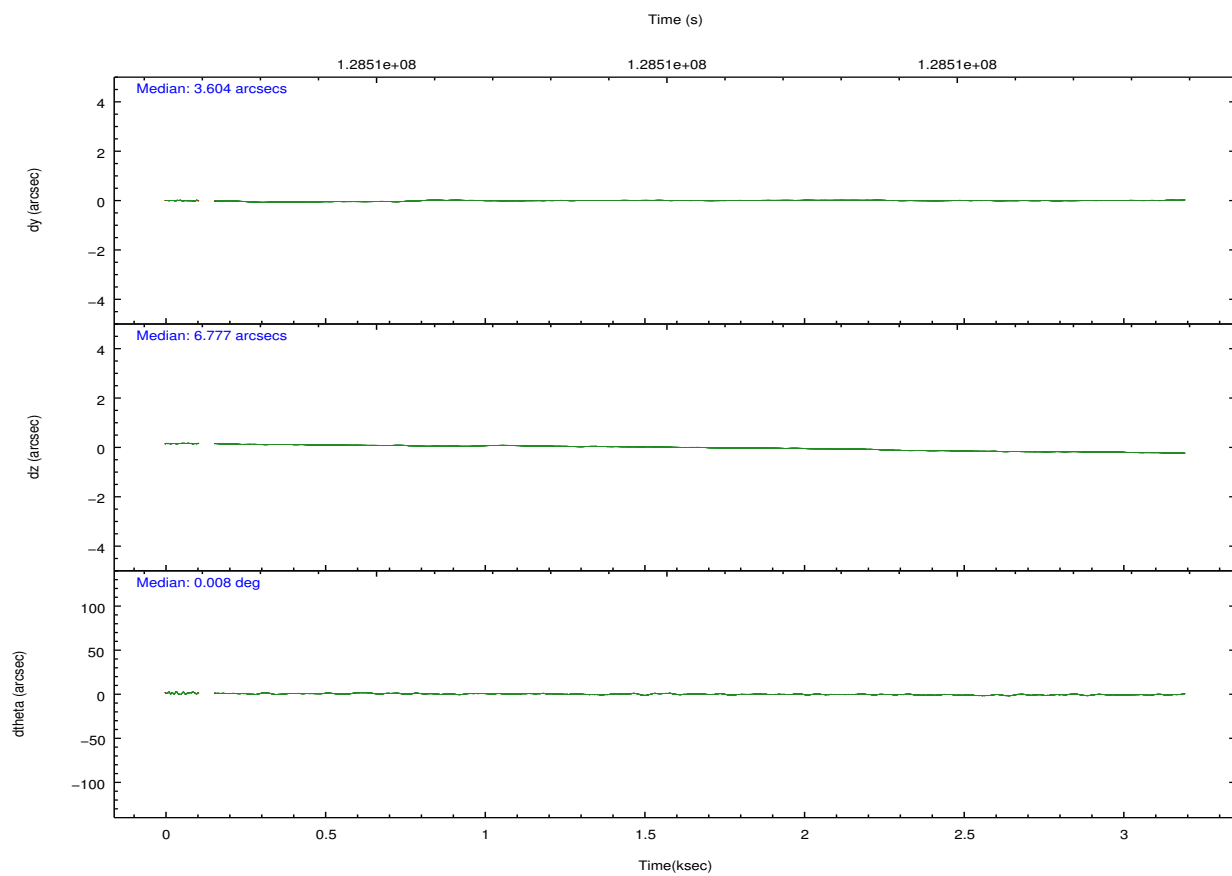
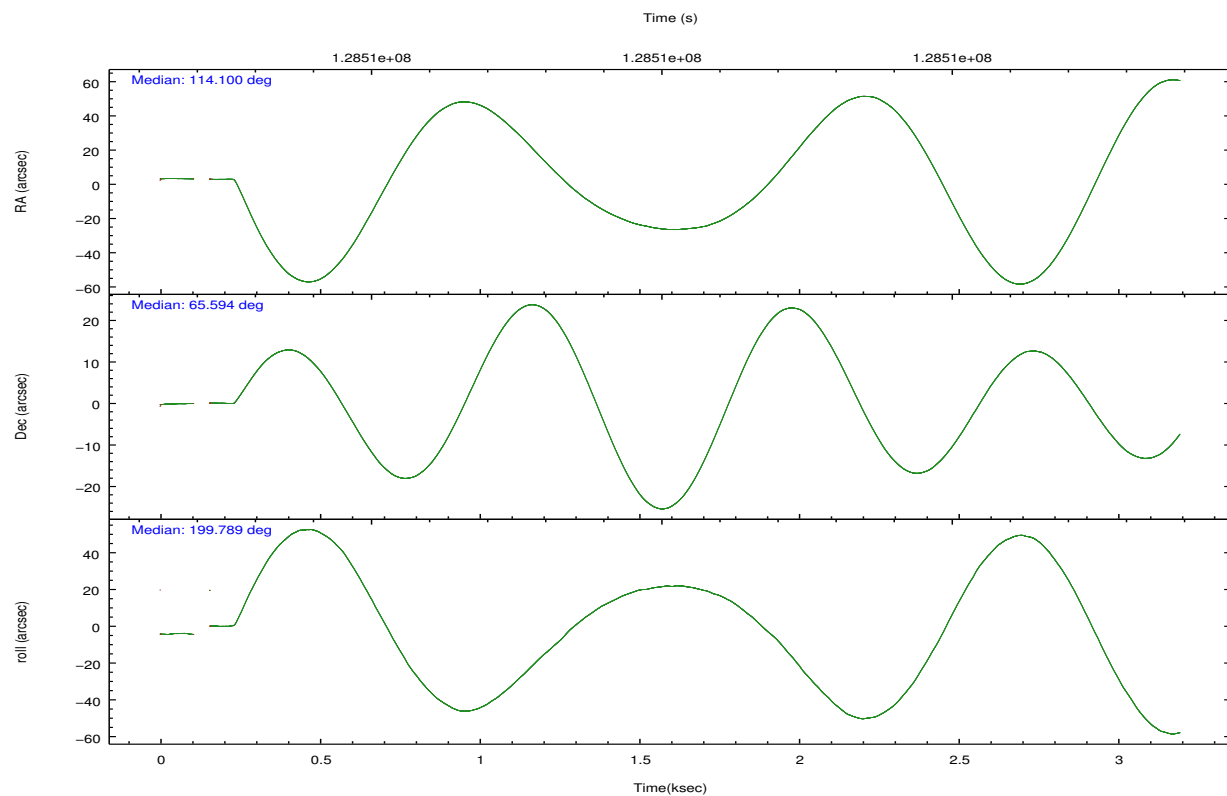
	<b>segment 0</b>
level 1 events	140792
rejected events	30158
rejected %	21%

## 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	114.141550	114.0994273550127			
[deg] Pointing Dec	65.614916	65.59374543863026			
[deg] Pointing Roll	199.852704	199.7955997120653			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9854943052878			
[mm] SIM translation stage offset	0	-5.413686238853188e-06			
[s] Observation start time (MET)	128507624.184000	128507009.80343			
Observation start date	2002-01-27T08:32:40	2002-01-27T08:23:29			
[s] Observation end time (MET)	128510624.184000	128511046.25359			
Observation end date	2002-01-27T09:22:40	2002-01-27T09:30:46			

2.3 Aspect





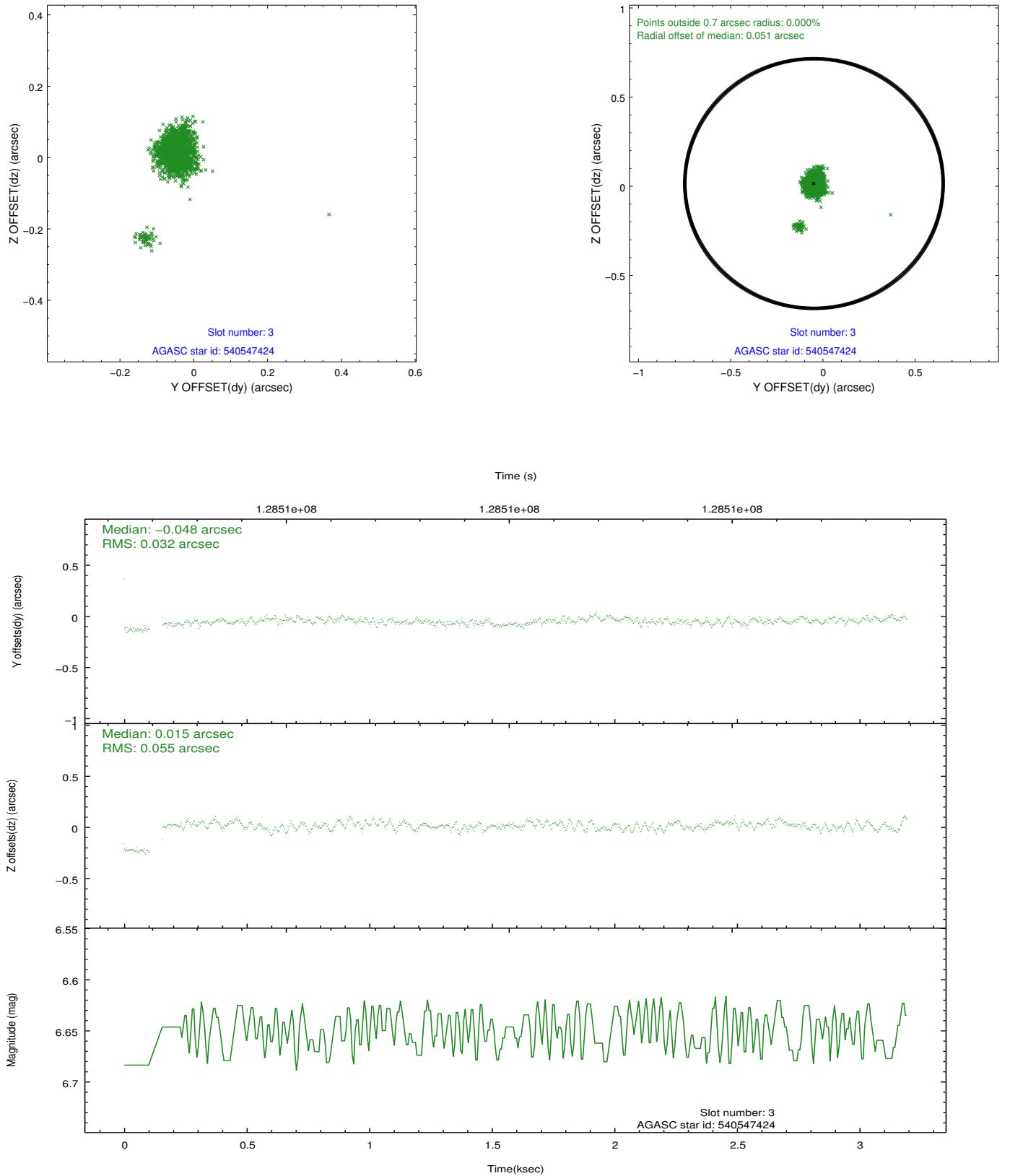
Slot Statistics

	status	id	mag	n_pts	med_dy	med_dz	drl
	FID	HRC-I-1	6.97	768	0.023	0.028	0.007
	FID	HRC-I-2	7.00	768	0.078	-0.068	0.007
	FID	HRC-I-3	7.05	768	0.018	-0.050	0.006
	GUIDE	540547424	6.65	1535	-0.048	0.015	0.047
	GUIDE	540025600	6.93	1535	-0.017	-0.016	0.052
	GUIDE	540151824	8.51	1535	0.002	0.047	0.082
	GUIDE	540543672	9.06	1533	0.060	-0.049	0.086
0.0000.0000.0000.0000000.00000000.000.00							

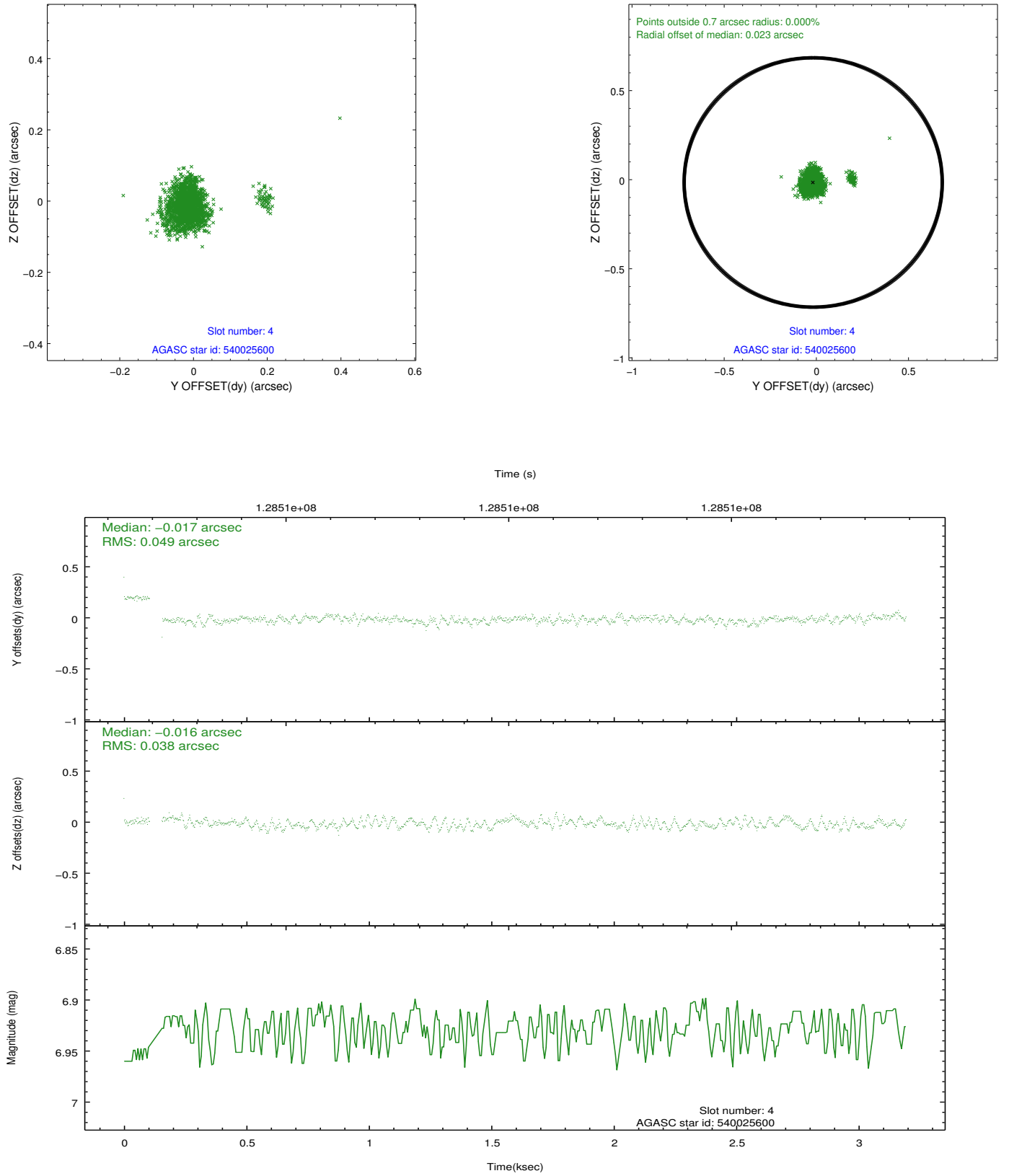


## 2.4 Star Slots

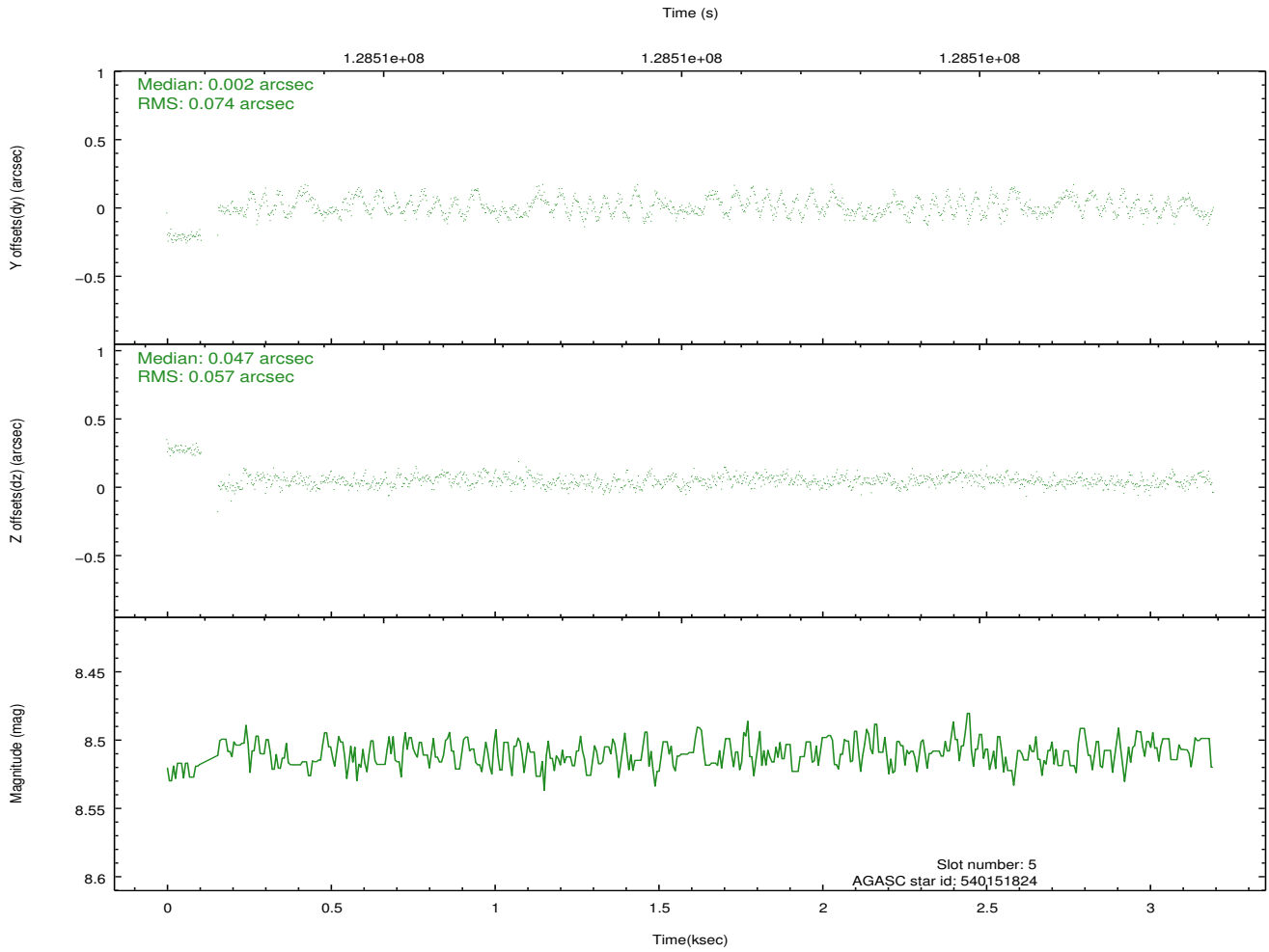
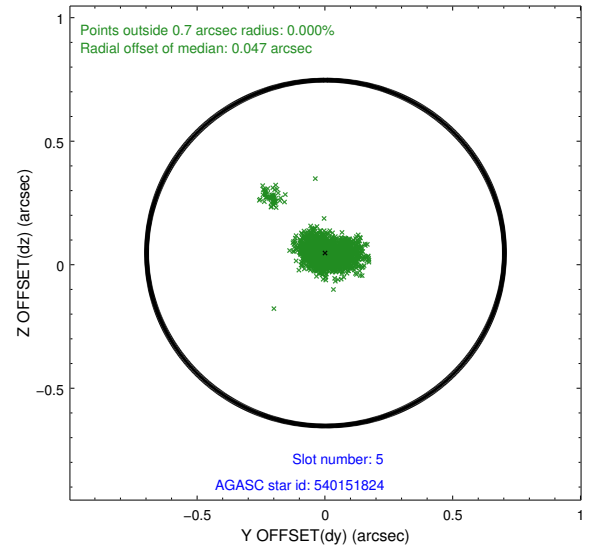
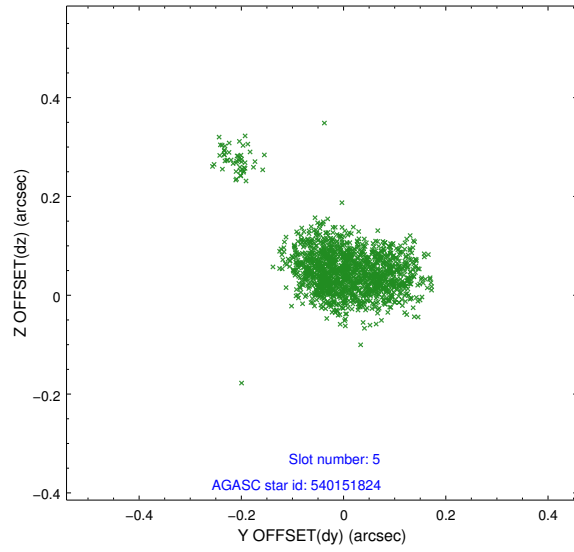
### 2.4.1 Slot 3



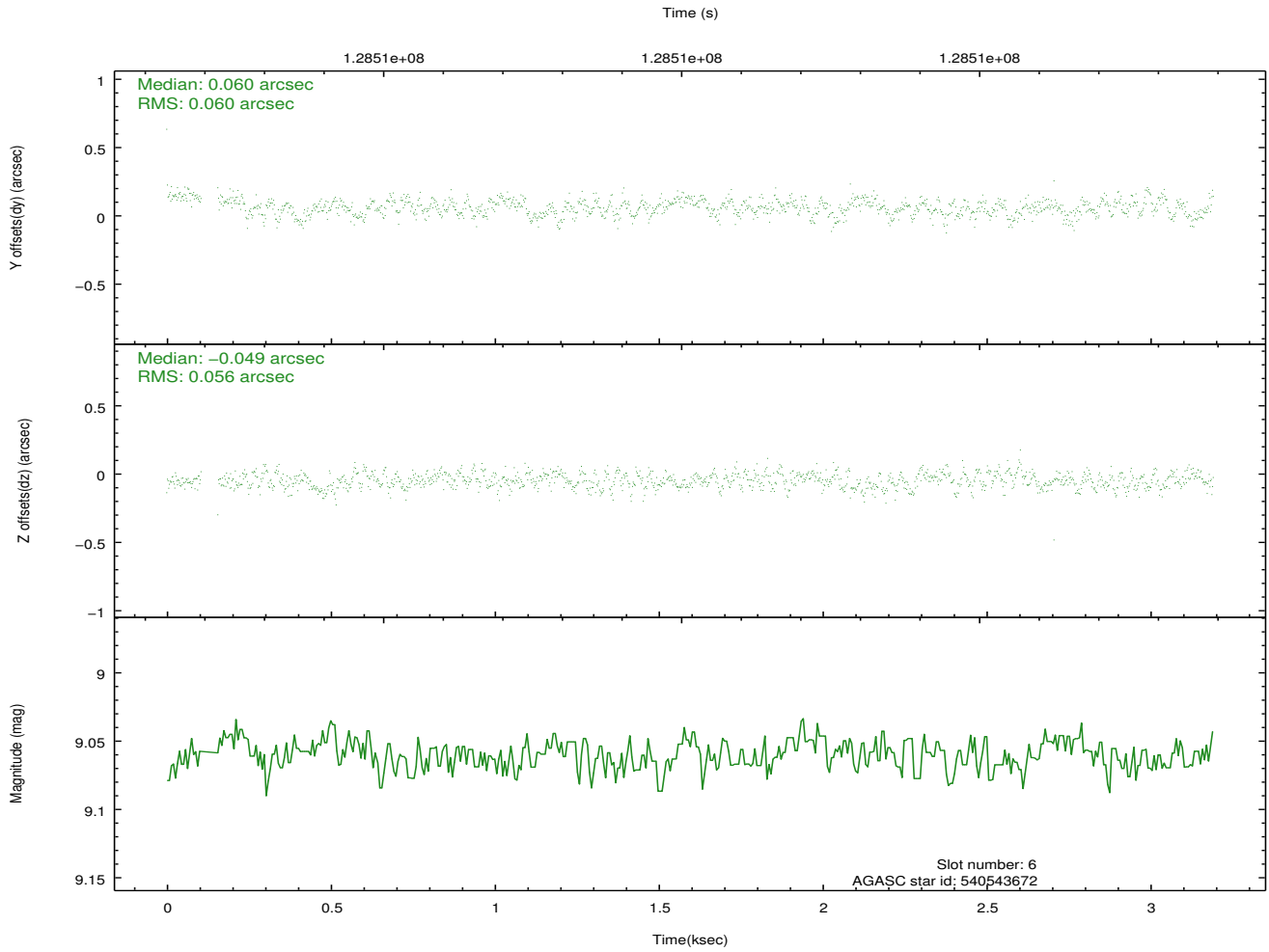
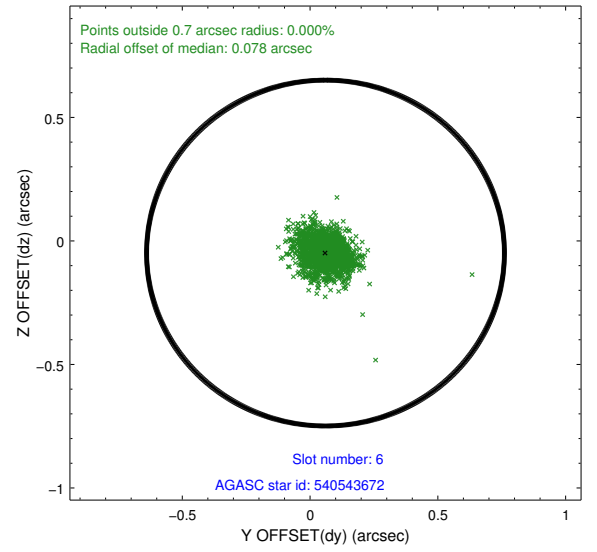
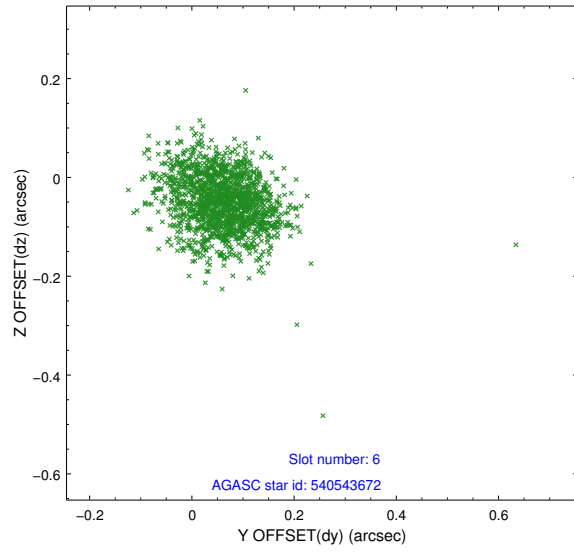
## 2.4.2 Slot 4



### 2.4.3 Slot 5

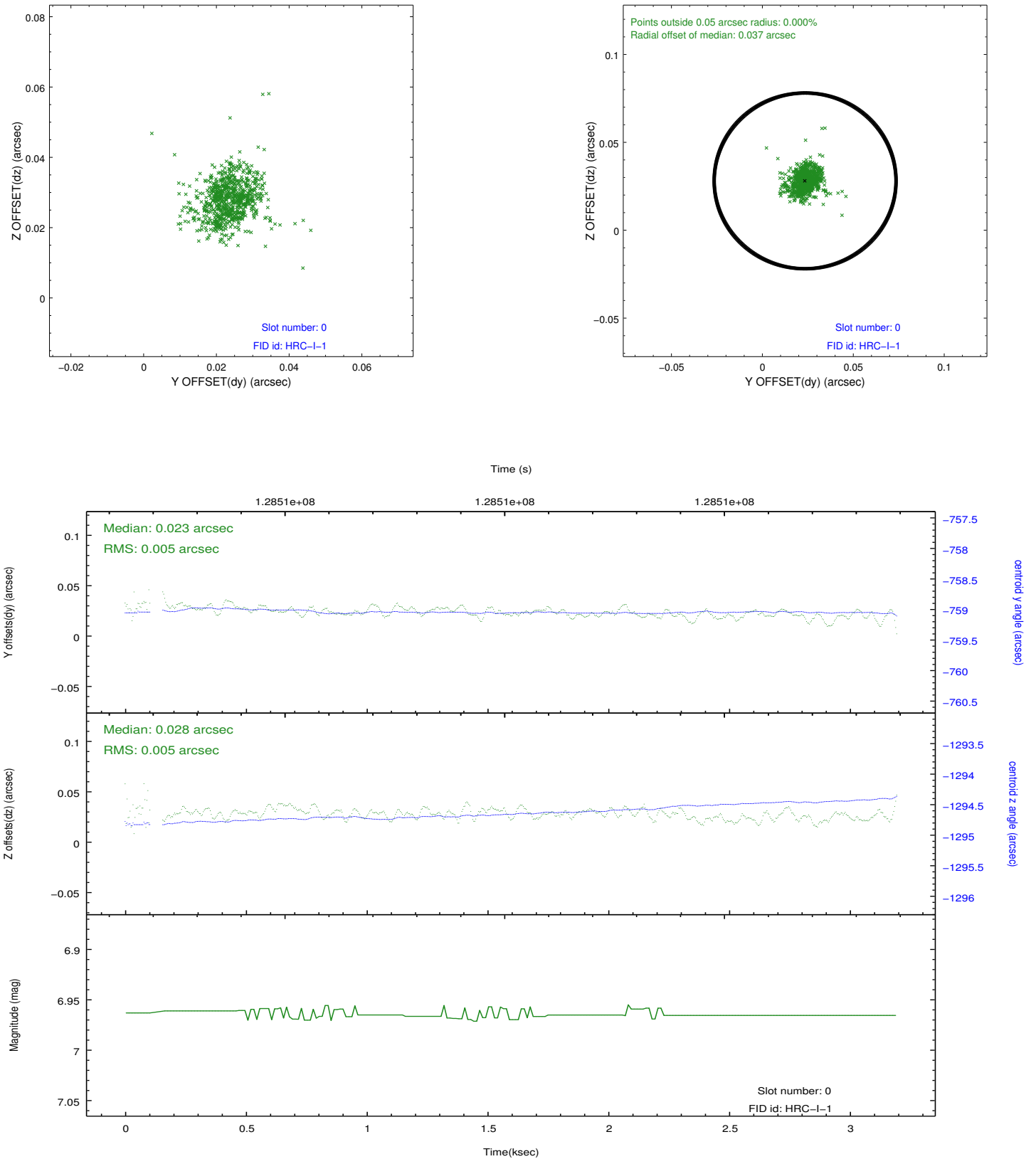


## 2.4.4 Slot 6

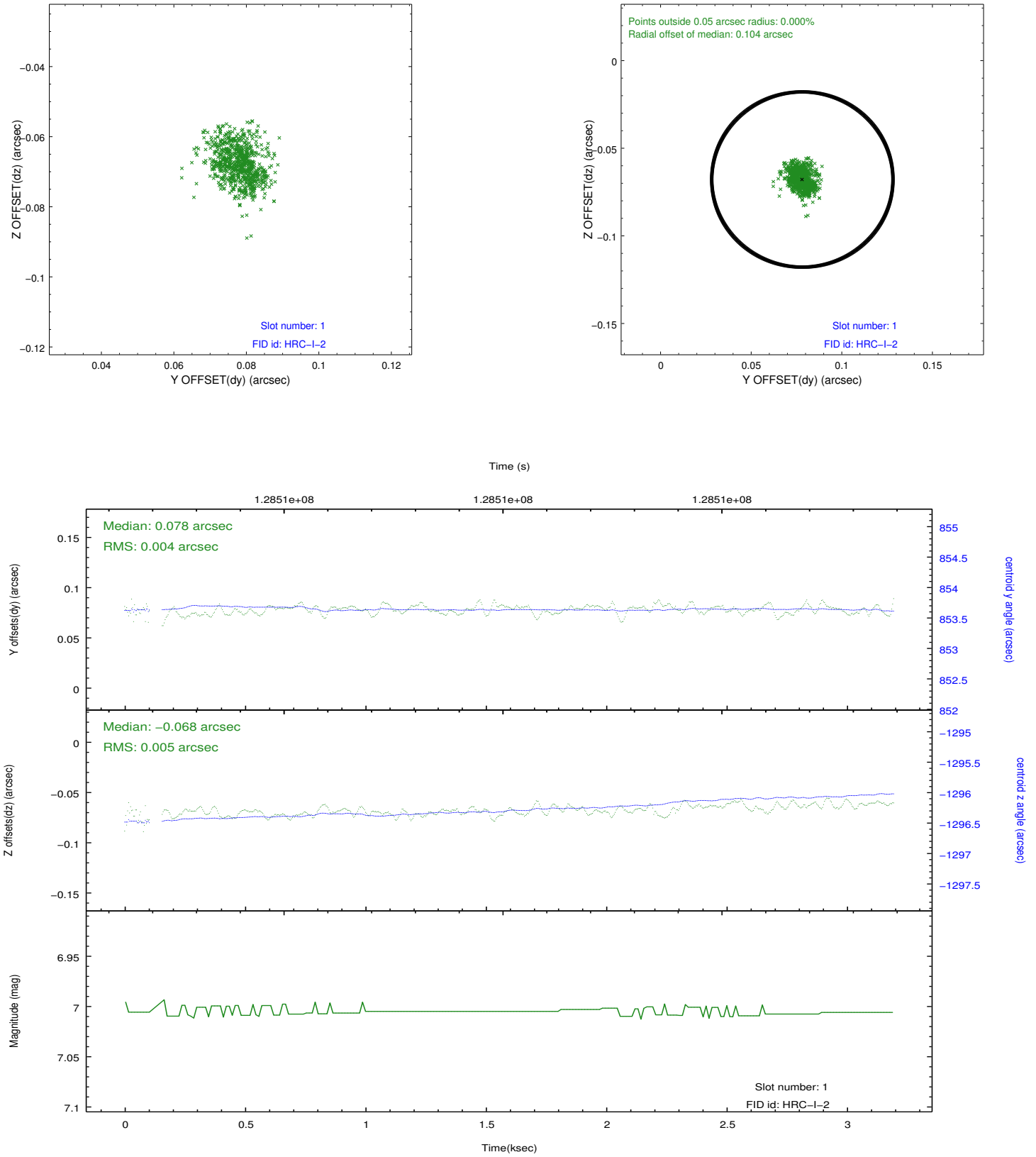


## 2.5 FID Slots

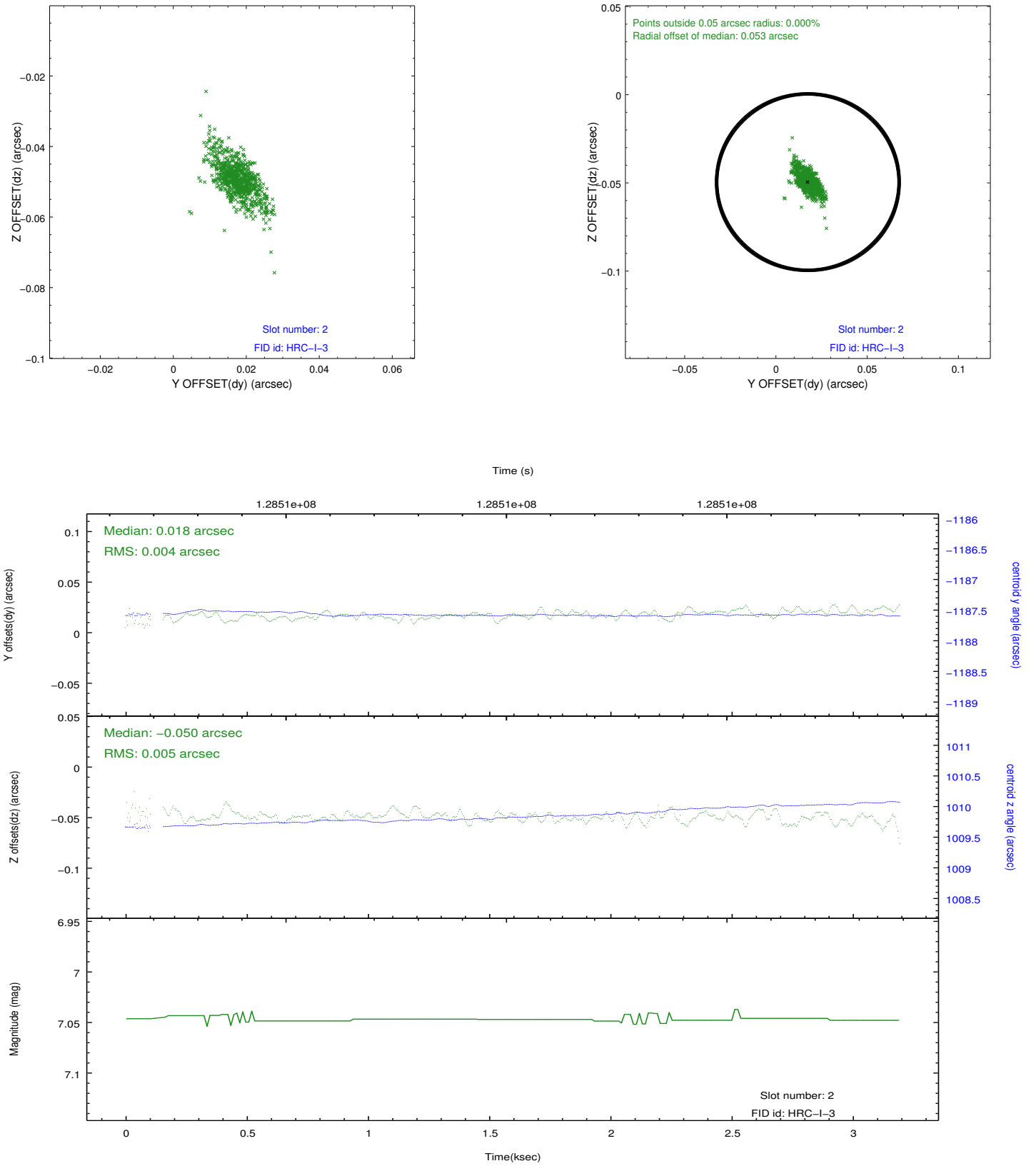
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.766

## A.2 Comments

Gap in aspect data: start time of gap 128507534.603450 s, stop time of gap 128507584.572199 s. Event data begins about 350 s into the observation. The aspect gap occurs before the start of the event data.