

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10648 - L2 Version 3  
Chandra X-Ray Center

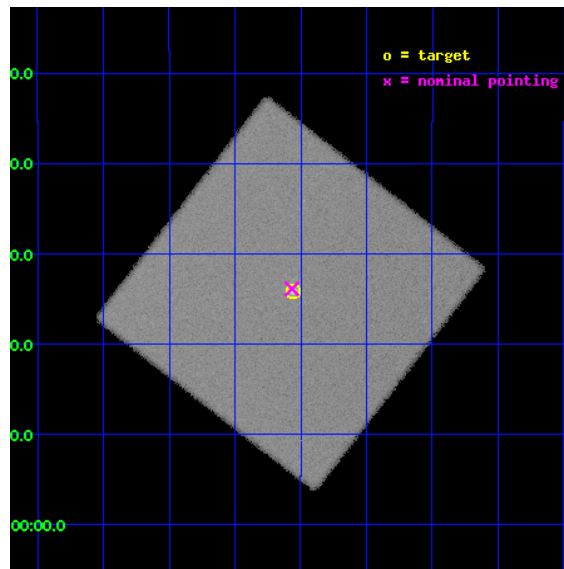
L2 Processing Date : Aug 13 2012

## 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
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

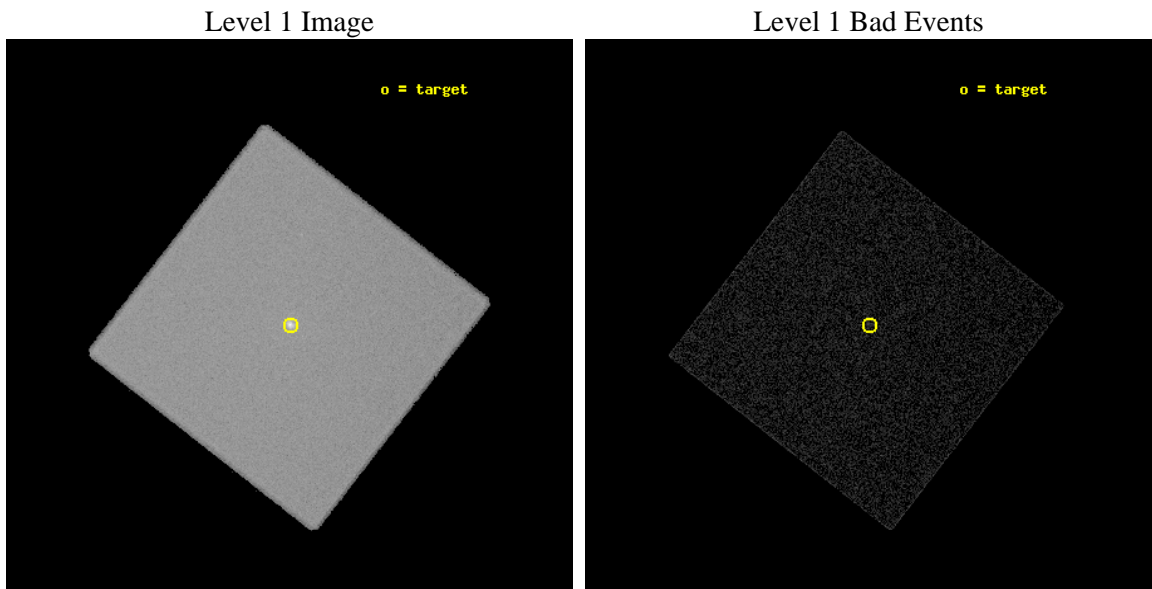
seq_num	590487	Sequence number
obs_id	10648	Observation id
title	AO-10 Observations of the Standard Candles Cas A and G21.5-09.	Pro
observer	Dr. CXC Calibration	Principal investigator
object	G21.5-09	Source name
ra_targ	278.389583	Observer's specified target RA [deg]
dec_targ	-10.568528	Observer's specified target Dec [deg]
ra_nom	278.3917247589	Nominal RA [deg]
dec_nom	-10.564930939527	Nominal Dec [deg]
roll_nom	82.904606492474	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10179.275504887	[s]
livetime	10063.304583095	Ontime multiplied by DTCOR
l2events	704912	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	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	10179.275504887	[s]
caldbver	4.5.1.1	&#160	l1events	1254754	Number of level 1 events
date	2012-08-13T02:57:12	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

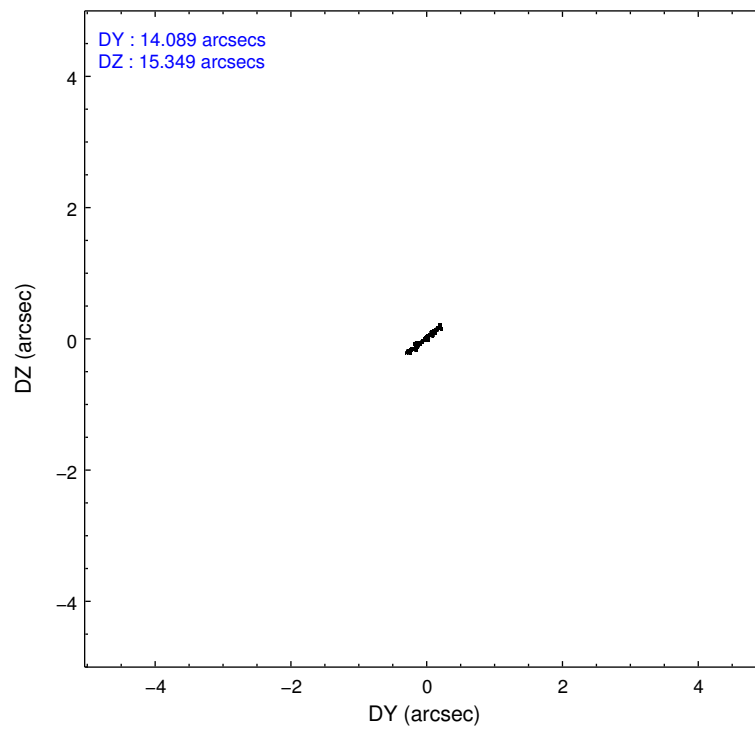
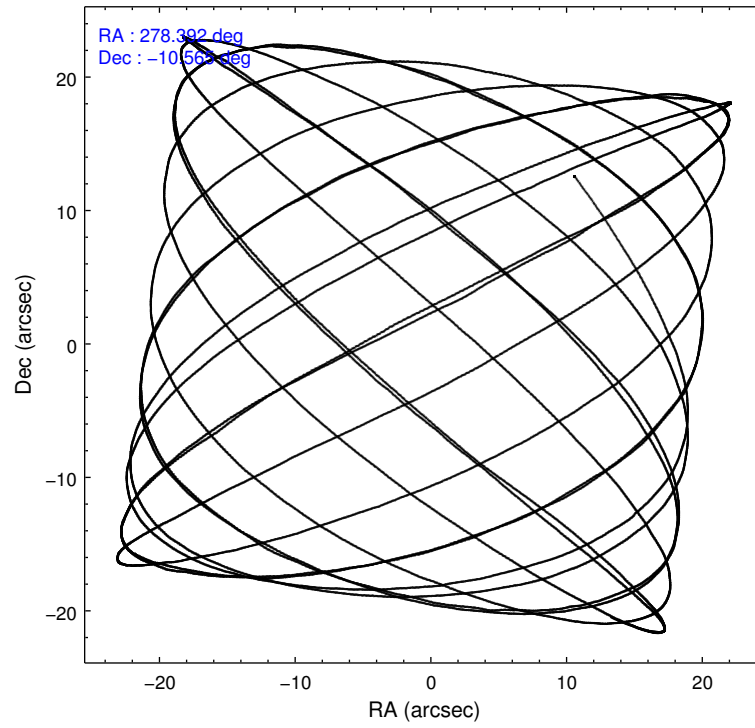
#### Level 1 Events

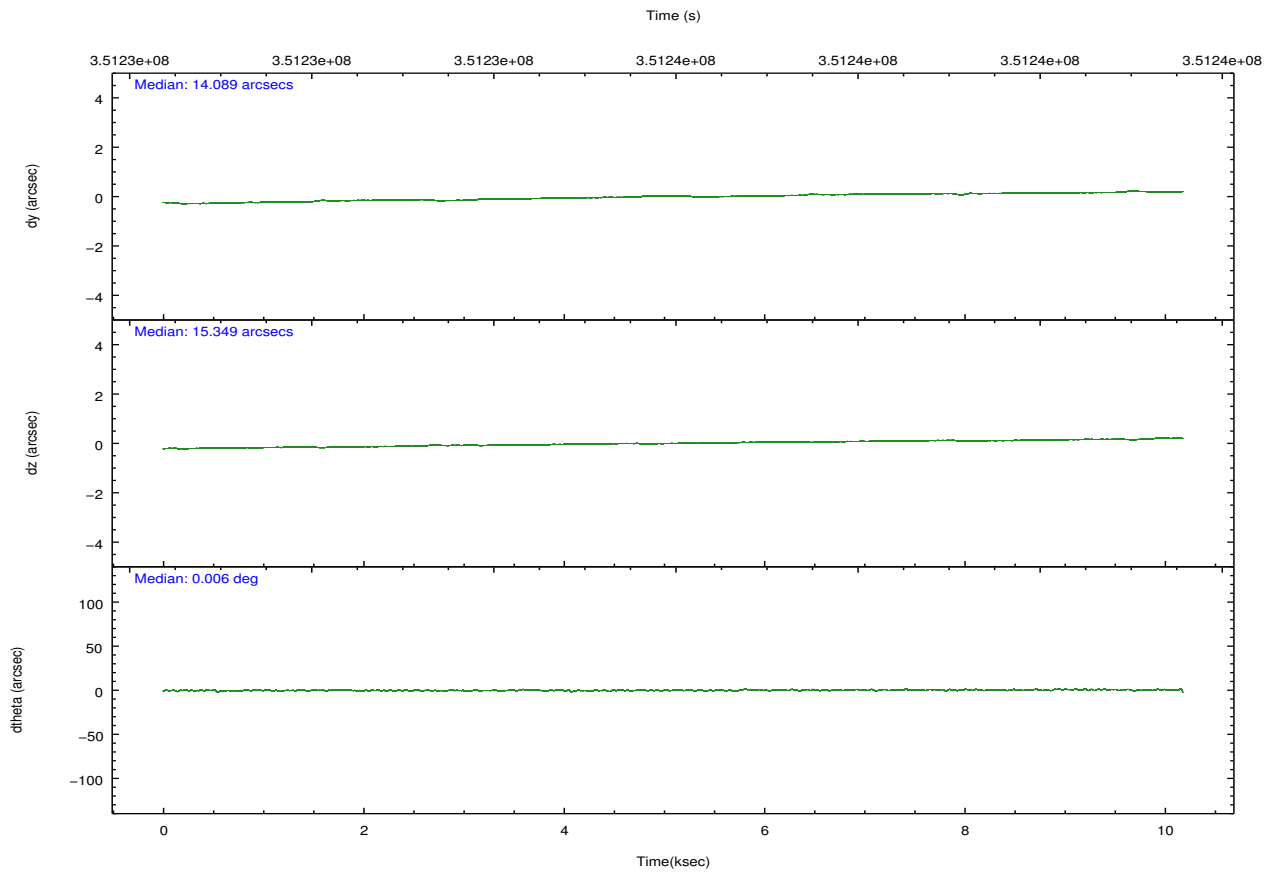
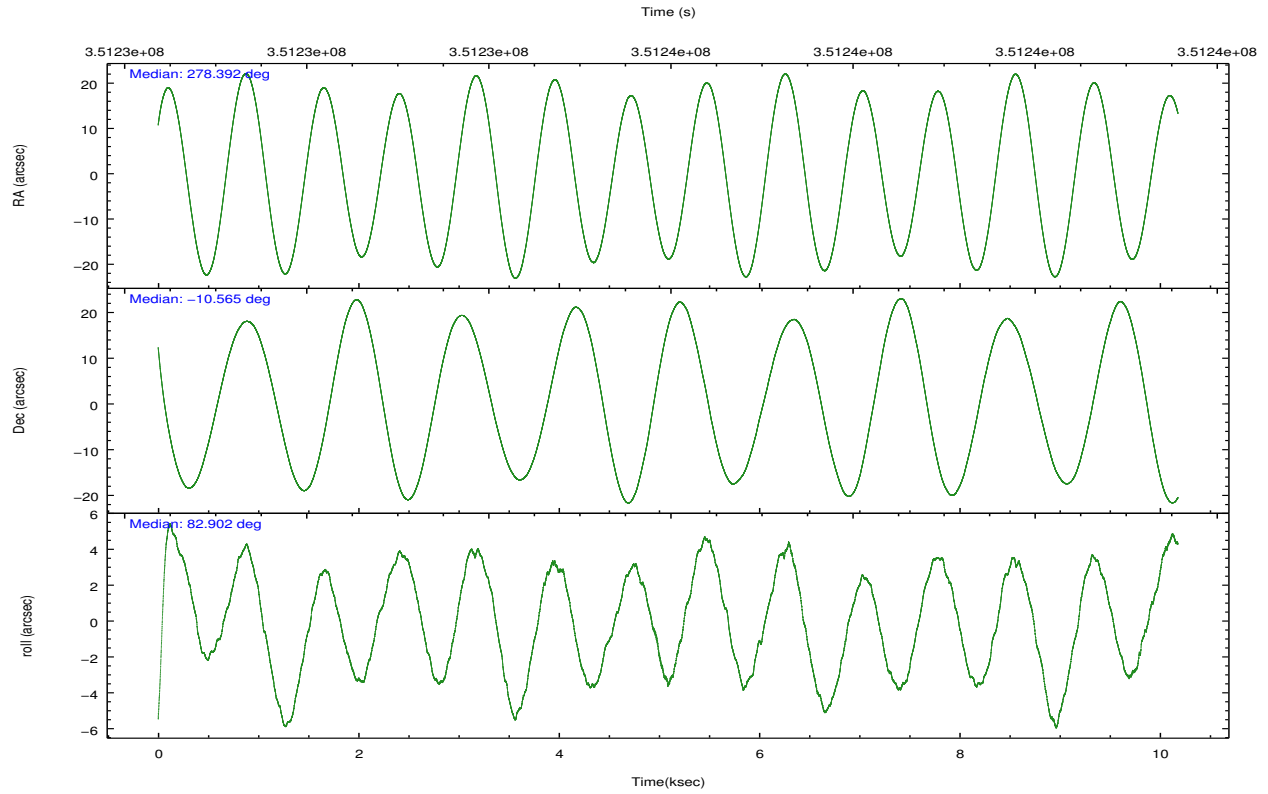
	<b>segment 0</b>
level 1 events	1254754
rejected events	227288
rejected %	<b>18%</b>

## 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	278.403006	278.391724758898			
[deg] Pointing Dec	-10.589622	-10.56493093952747			
[deg] Pointing Roll	83.002184	82.90460649247439			
[s] Window start time (MET)	349833666.184000	349833666.184000			
[s] Window stop time (MET)	357523266.184000	357523266.184000			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	351231056.184000	351229624.34947			
Observation start date	2009-02-17T04:09:50	2009-02-17T03:47:04			
[s] Observation end time (MET)	351241056.184000	351242071.95008			
Observation end date	2009-02-17T06:56:30	2009-02-17T07:14:31			

## 2.3 Aspect



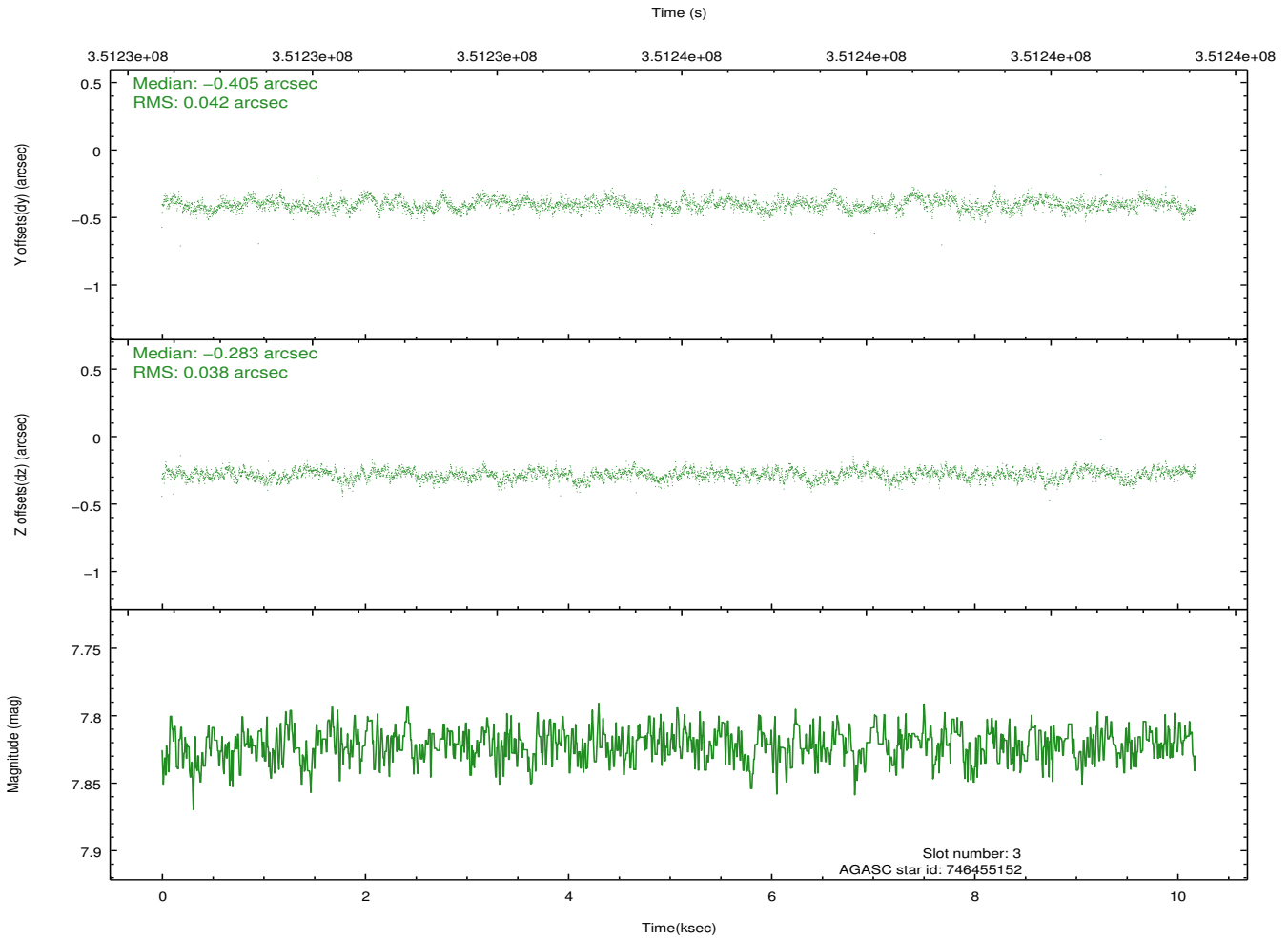
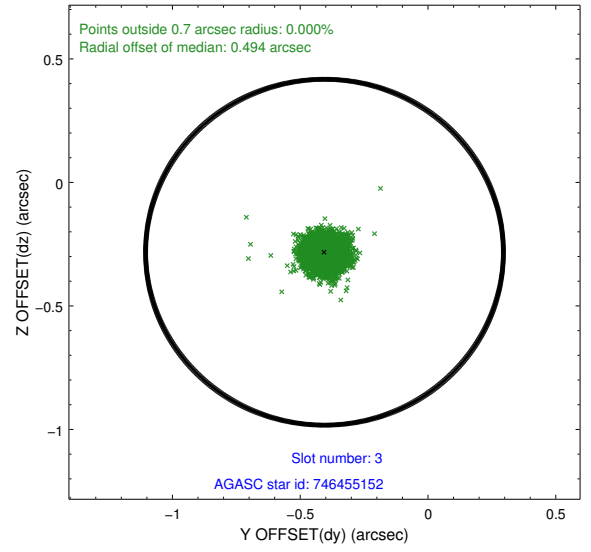
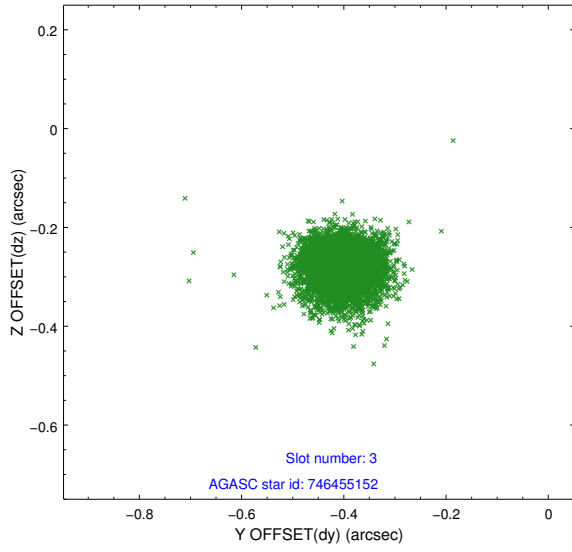


### Slot Statistics

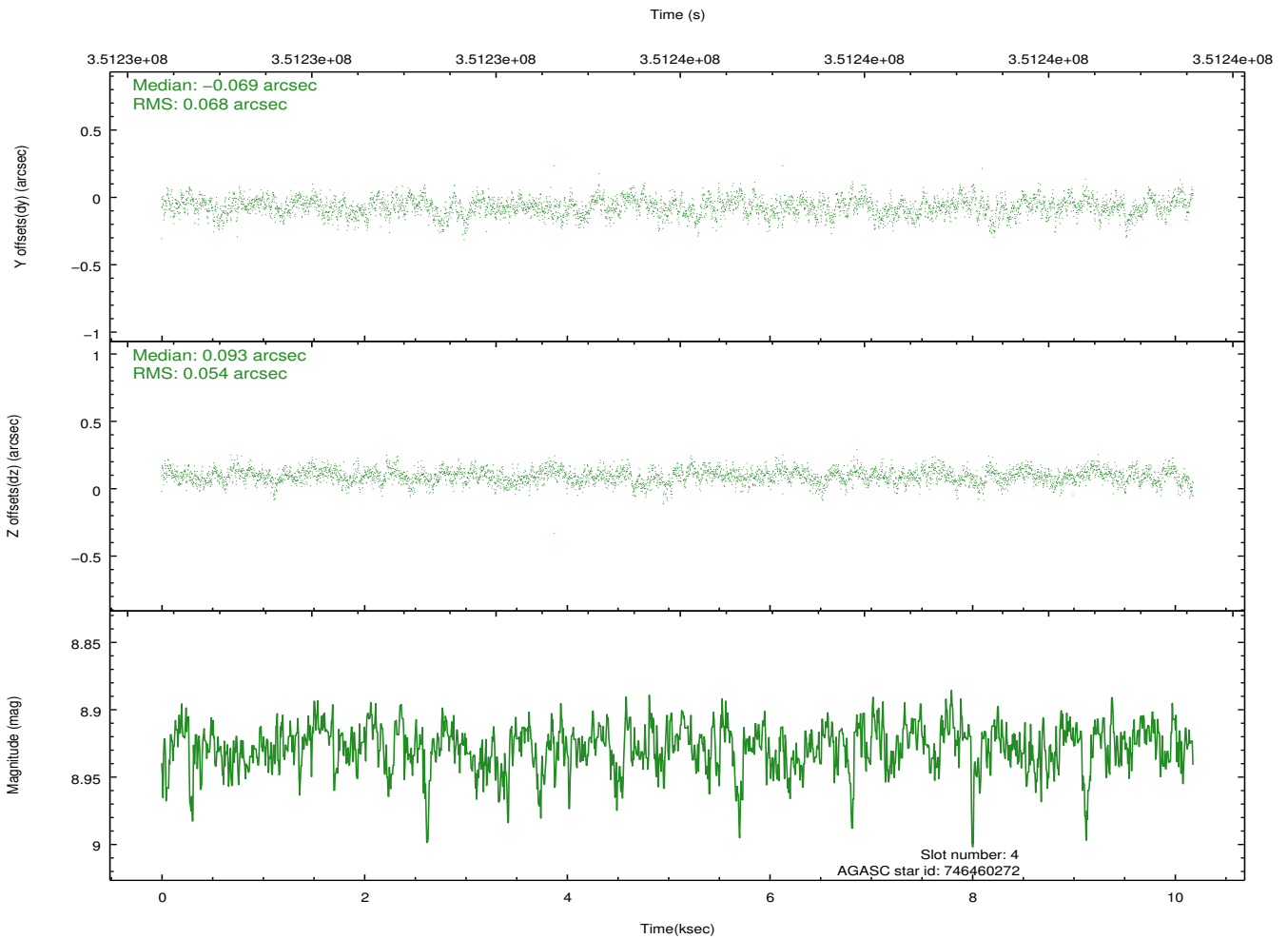
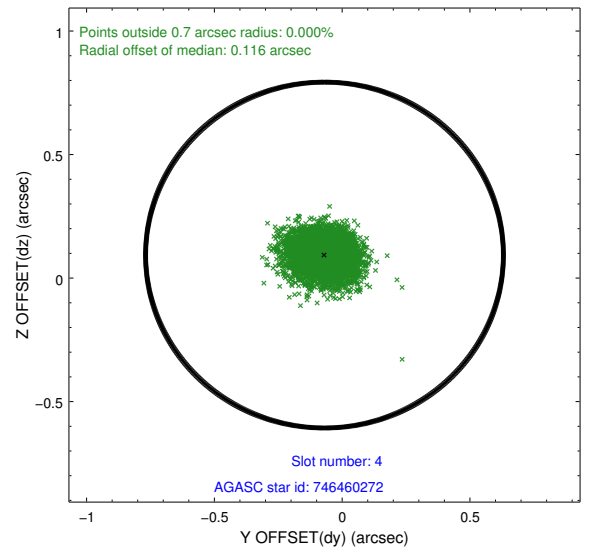
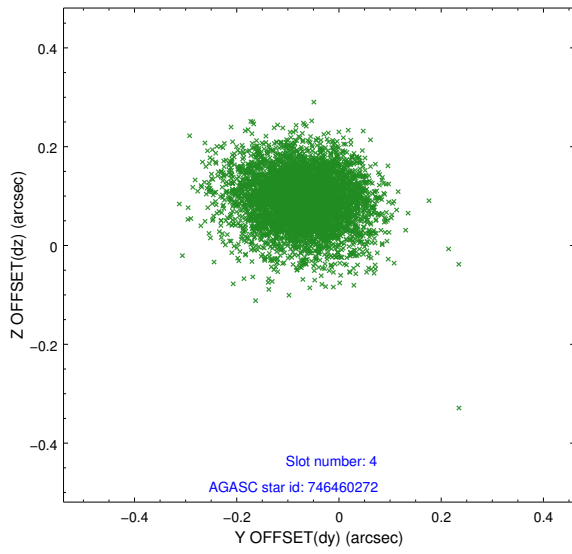
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.01	2483	-0.105	-0.008	0.008	0.014	0.000000	0.000000	-769.90	-1303.47
1	FID	HRC-I-2	7.06	2483	0.257	-0.118	0.006	0.011	0.000000	0.000000	842.78	-1305.62
2	FID	HRC-I-3	7.10	2483	-0.033	0.036	0.007	0.012	0.000000	0.000000	-1198.06	1000.59
3	GUIDE	746455152	7.82	4964	-0.405	-0.283	0.060	0.096	278.447893	-9.976732	2209.78	111.20
4	GUIDE	746460272	8.93	4965	-0.069	0.093	0.090	0.151	278.847488	-10.152127	1755.34	-1370.90
5	GUIDE	746462392	8.54	4966	0.190	0.170	0.082	0.133	279.038421	-10.890715	-804.65	-2362.89
6	GUIDE	746462456	8.38	4966	0.089	-0.057	0.077	0.123	278.652171	-10.530173	319.13	-849.67
7	GUIDE	746462680	9.01	4957	0.196	0.083	0.089	0.141	278.660755	-10.782756	-578.29	-989.03

## 2.4 Star Slots

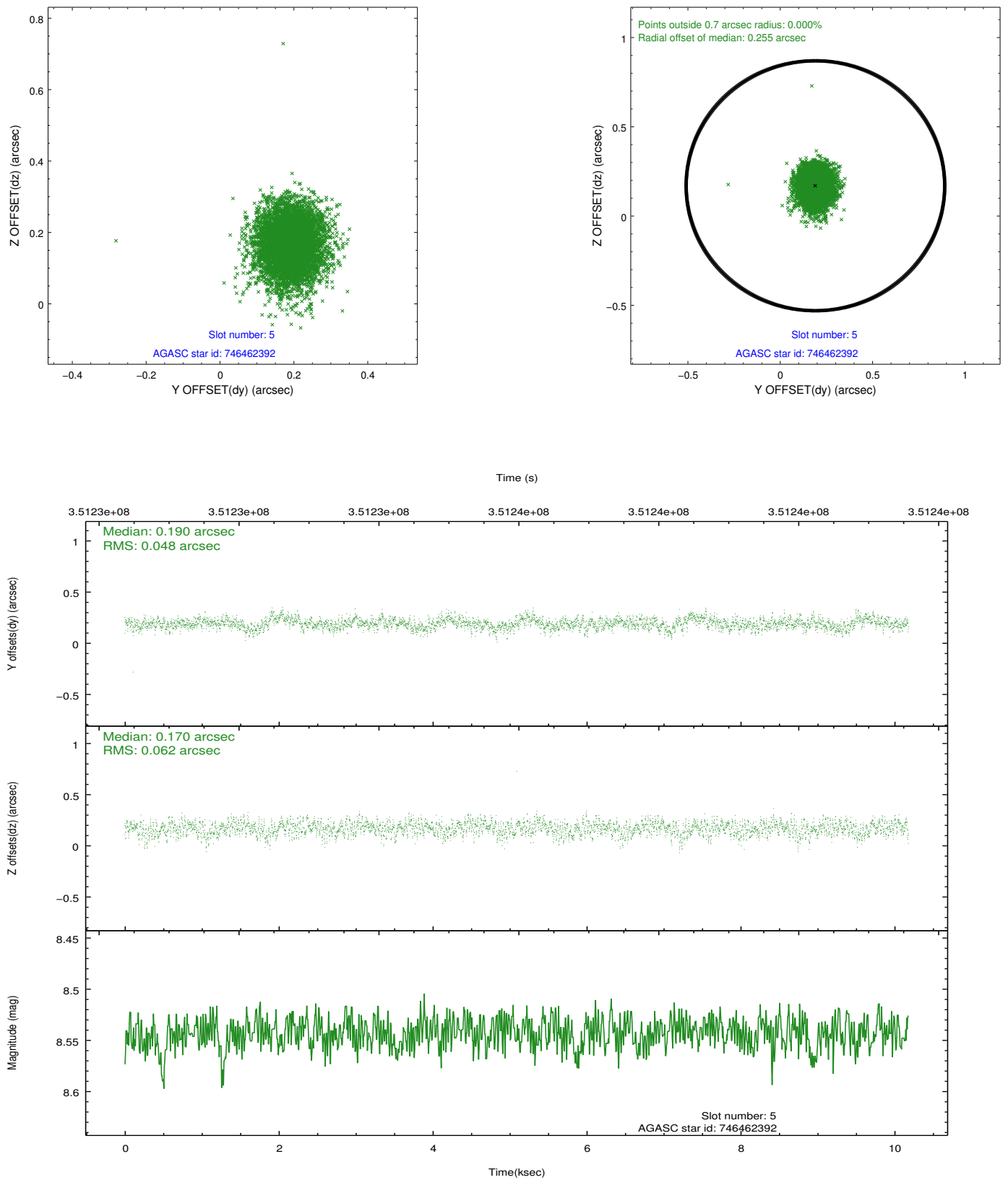
### 2.4.1 Slot 3



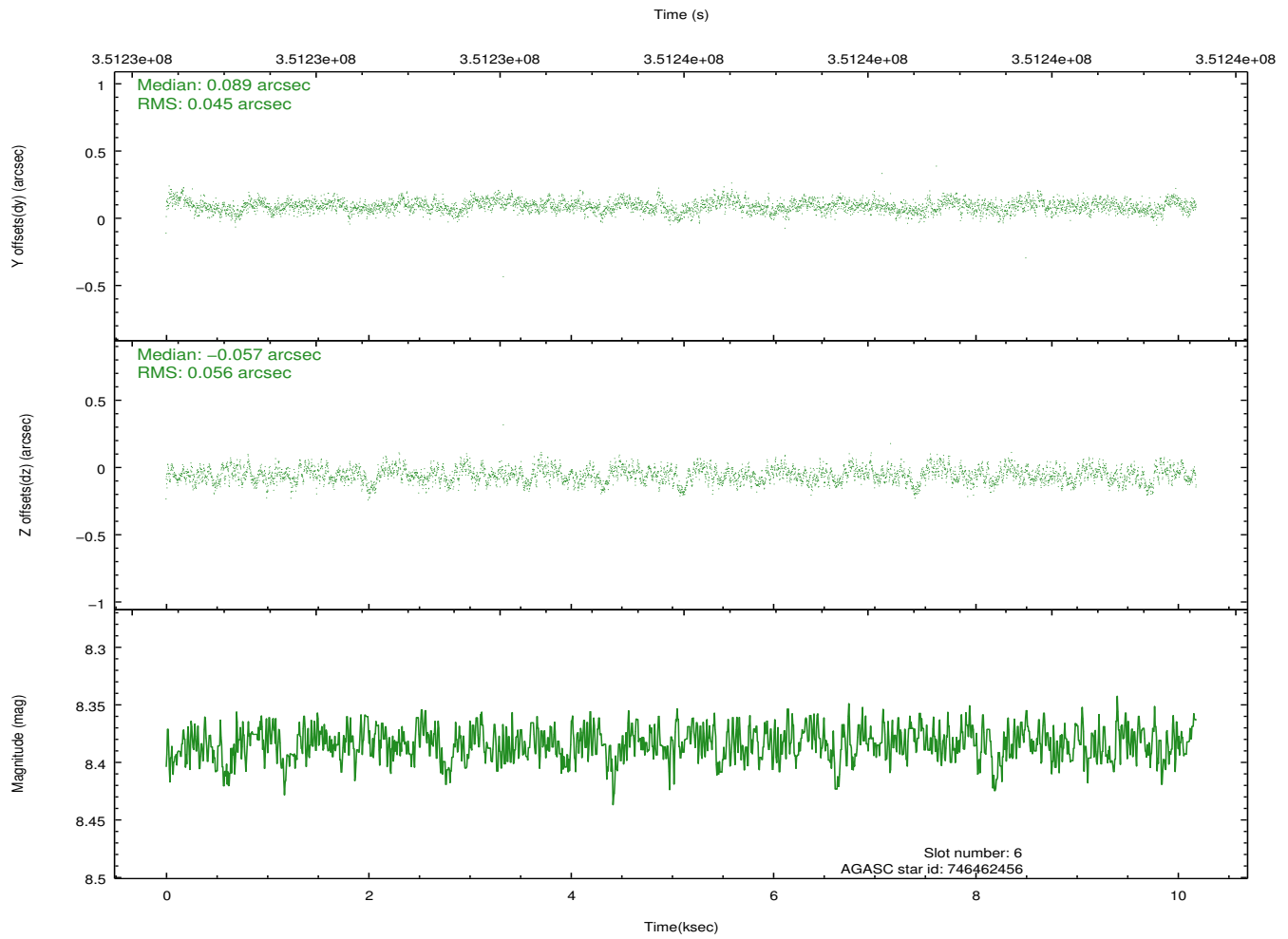
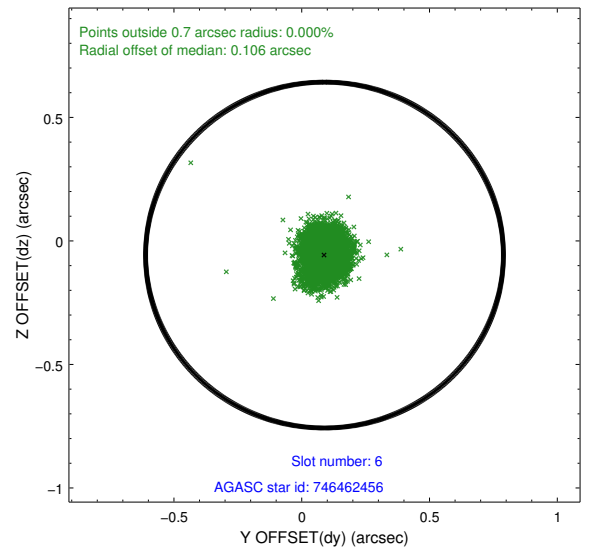
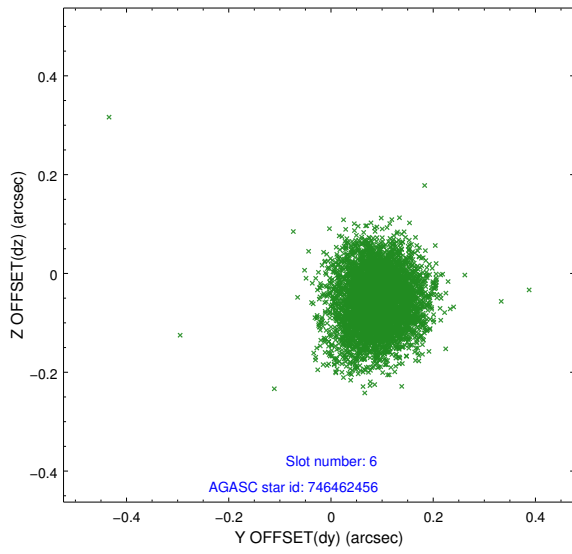
## 2.4.2 Slot 4



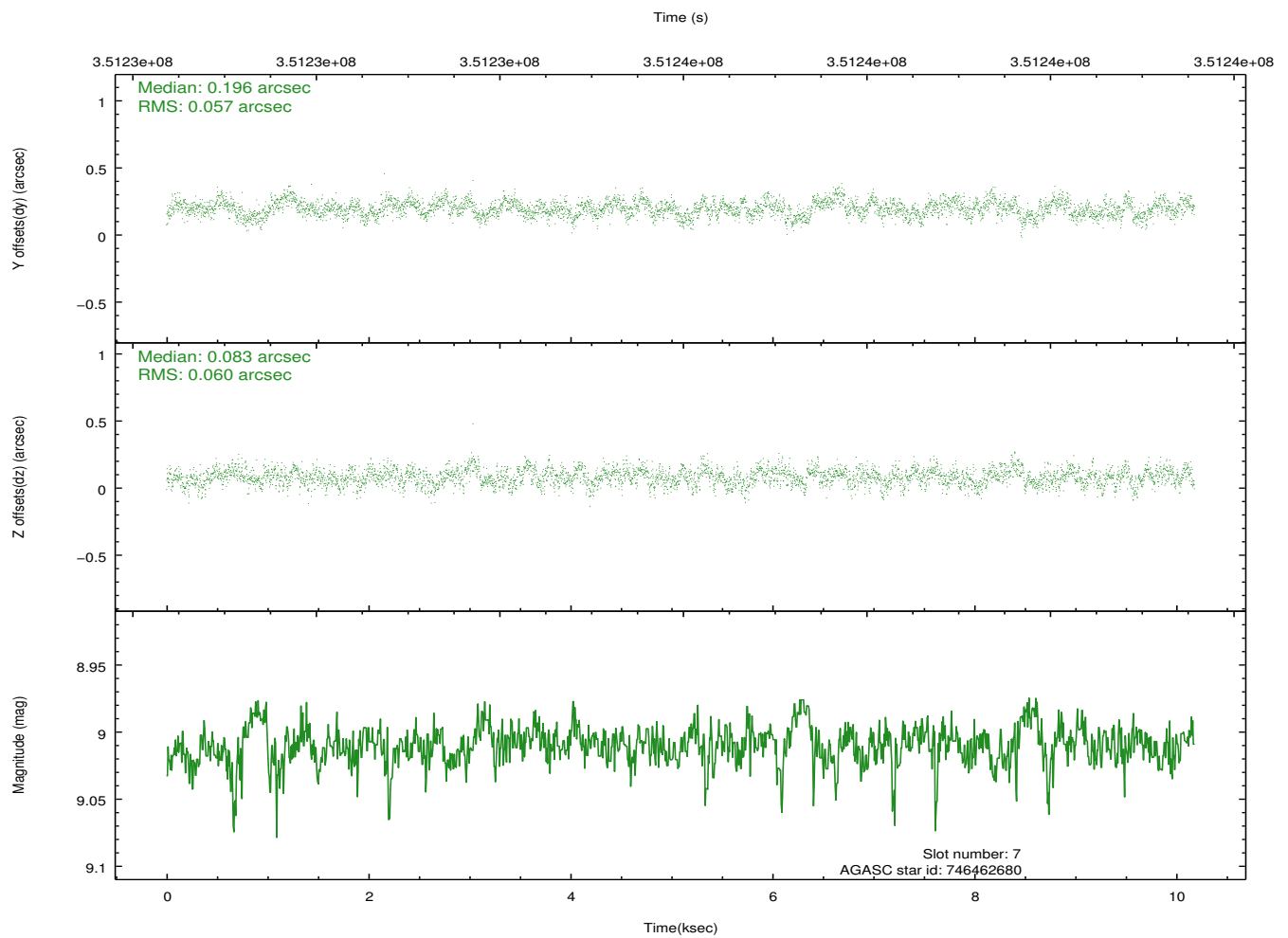
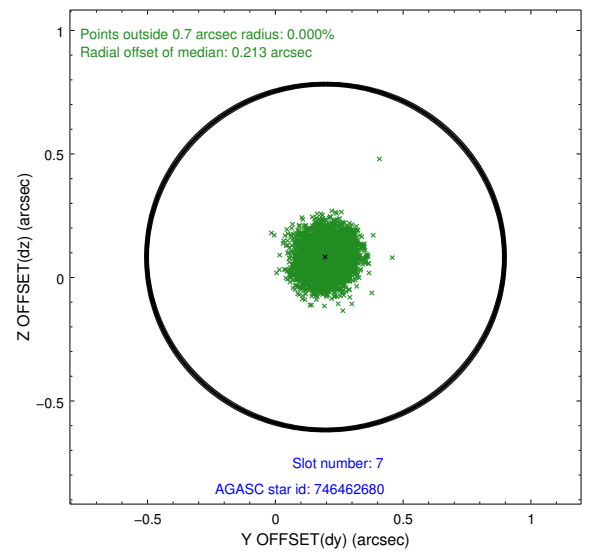
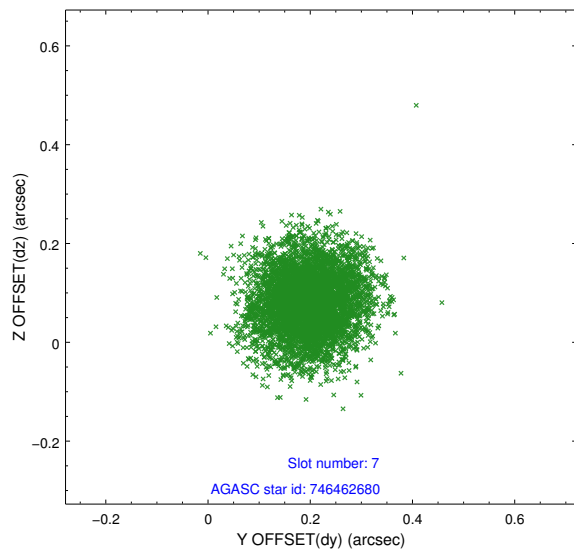
### 2.4.3 Slot 5



## 2.4.4 Slot 6

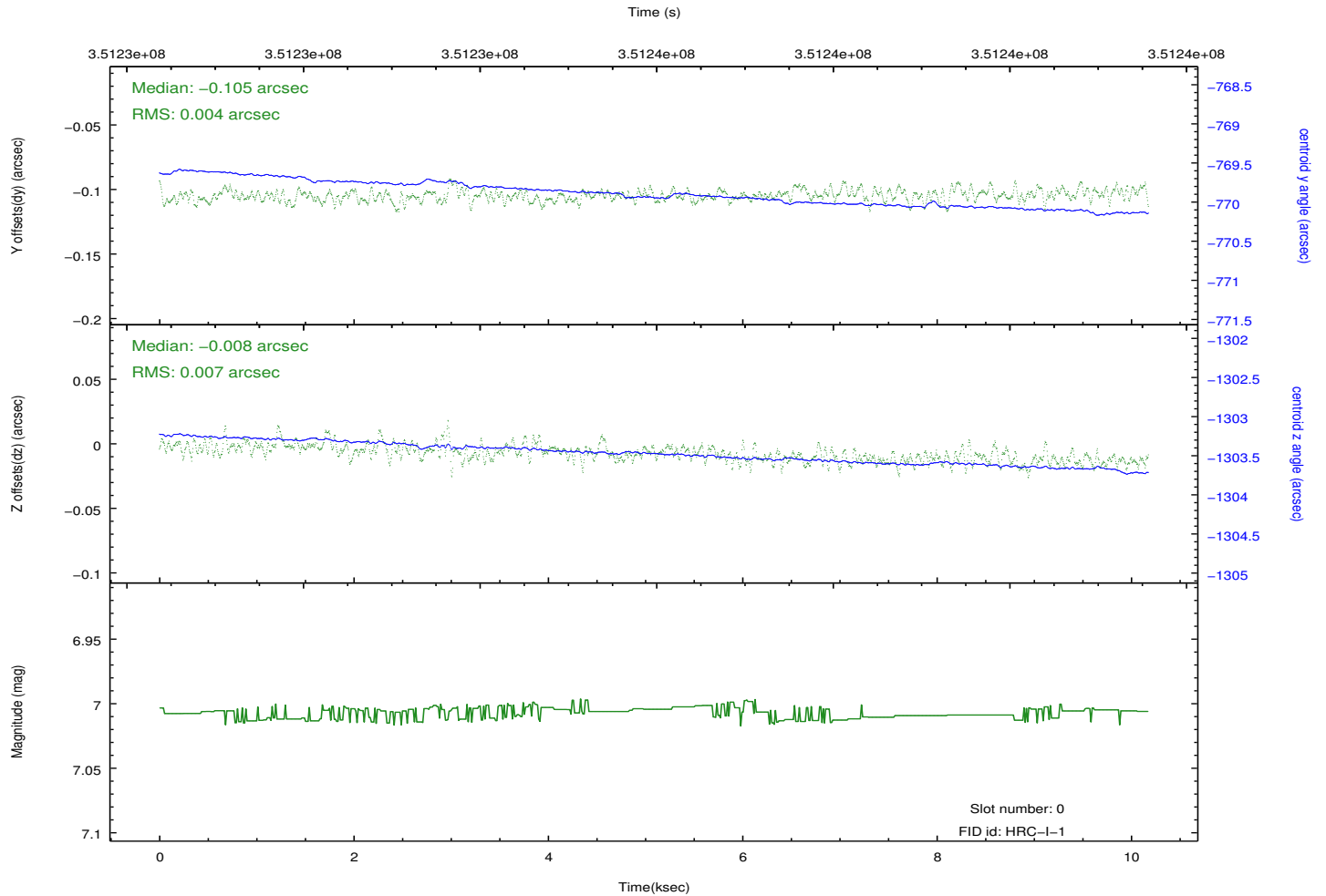
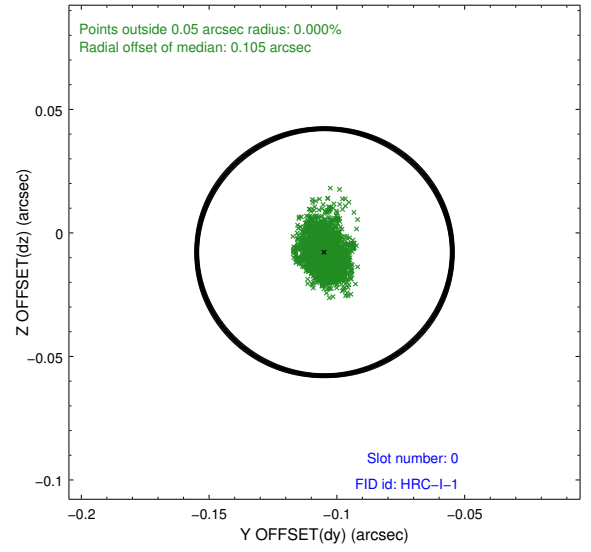
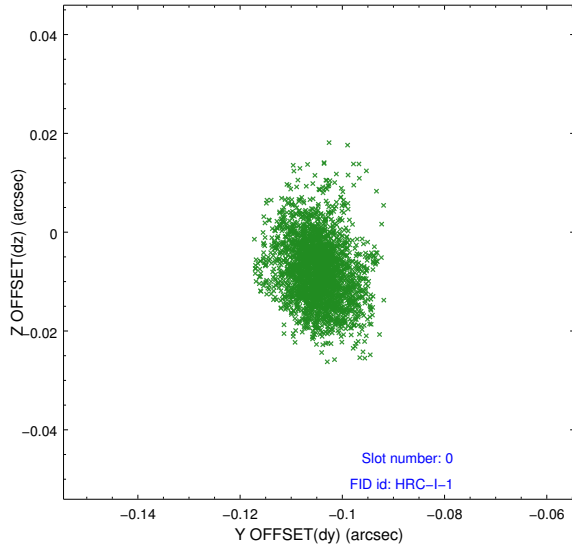


## 2.4.5 Slot 7

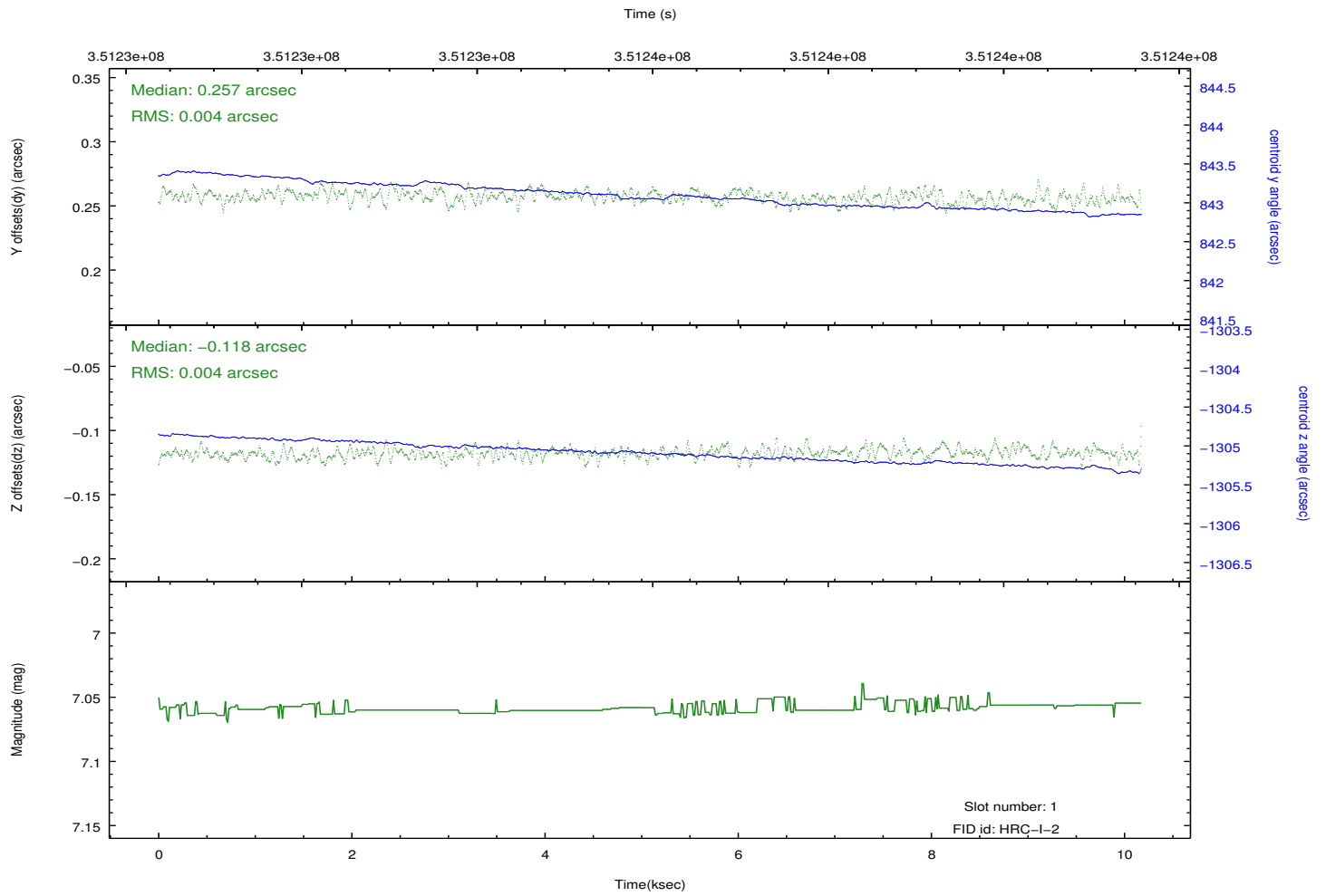
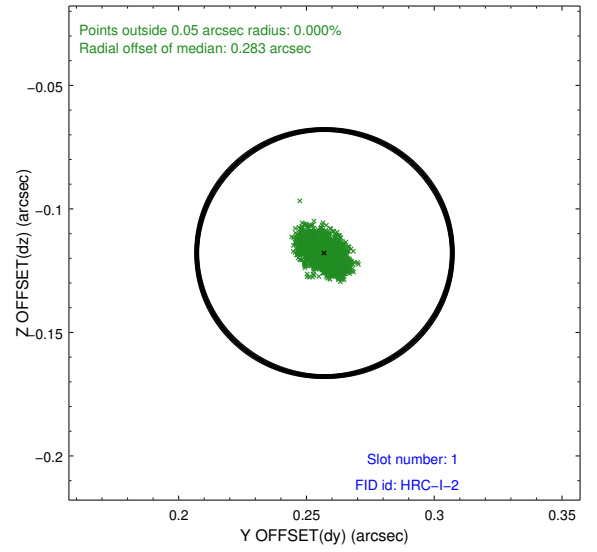
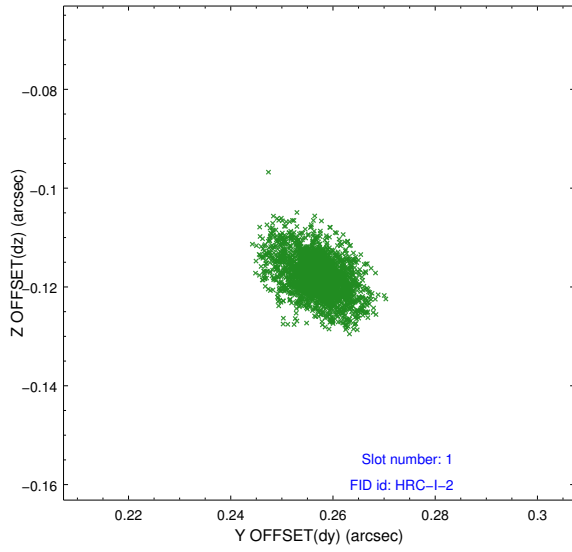


## 2.5 FID Slots

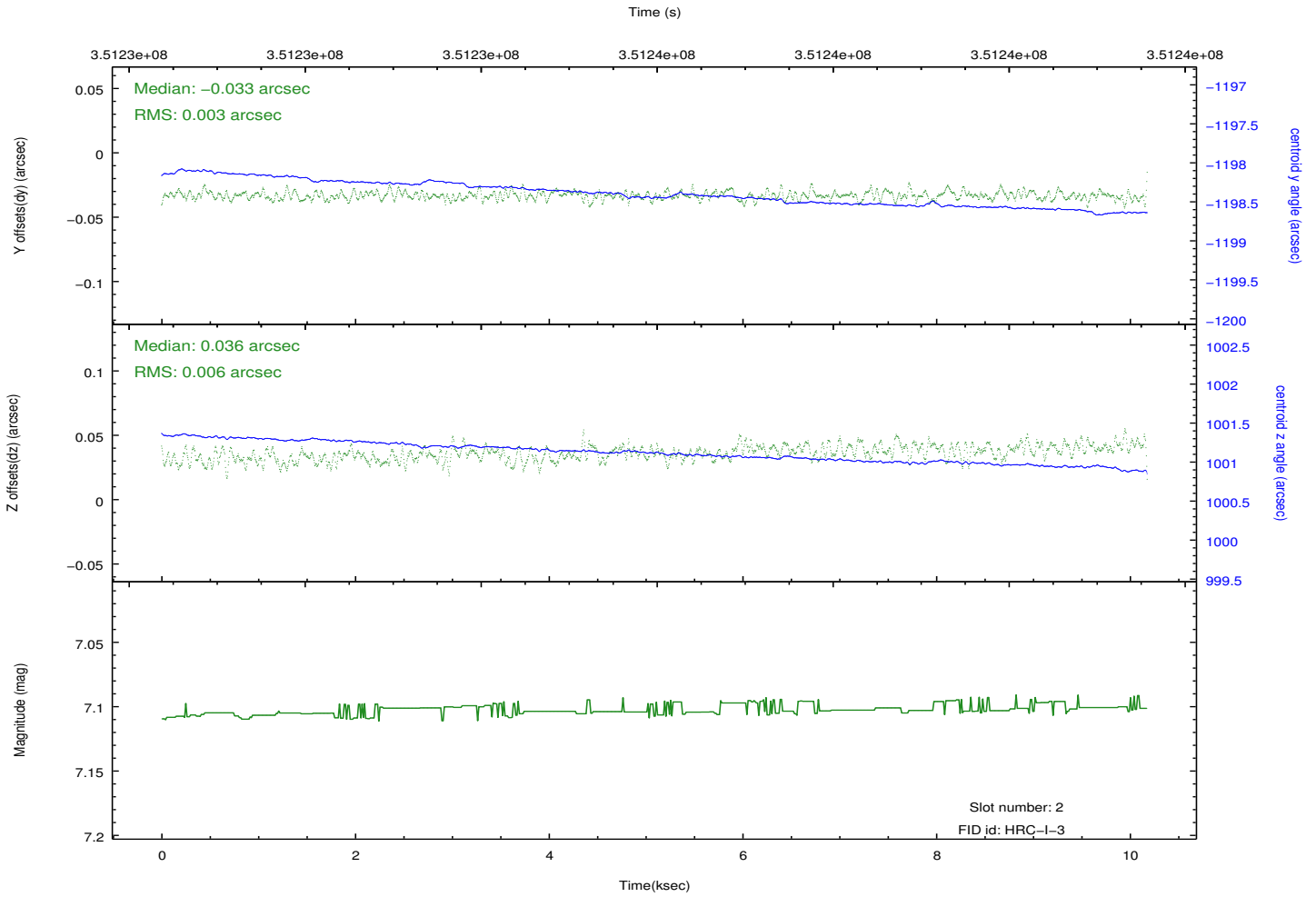
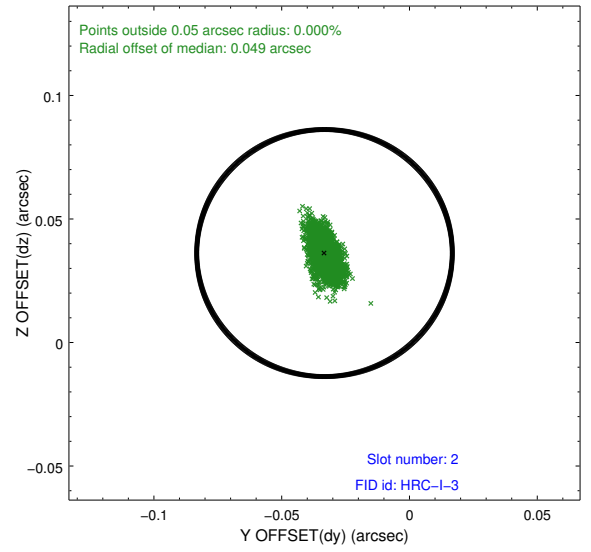
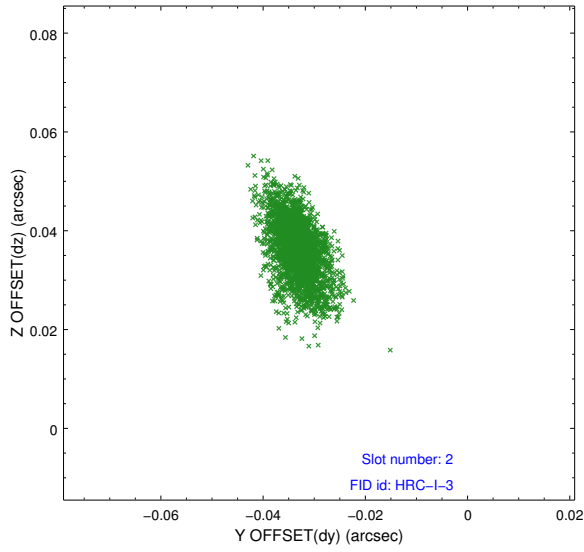
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.08.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.1795317

## A.2 Comments

Window preference met.