

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 6135 - L2 Version 4  
Chandra X-Ray Center

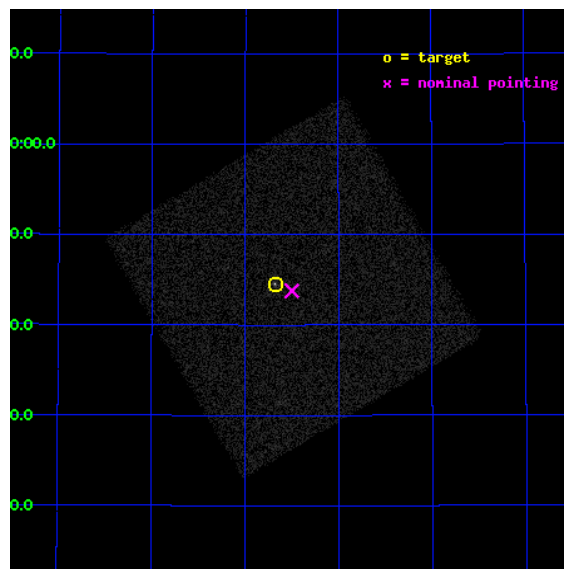
L2 Processing Date : Dec 11 2012

## 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

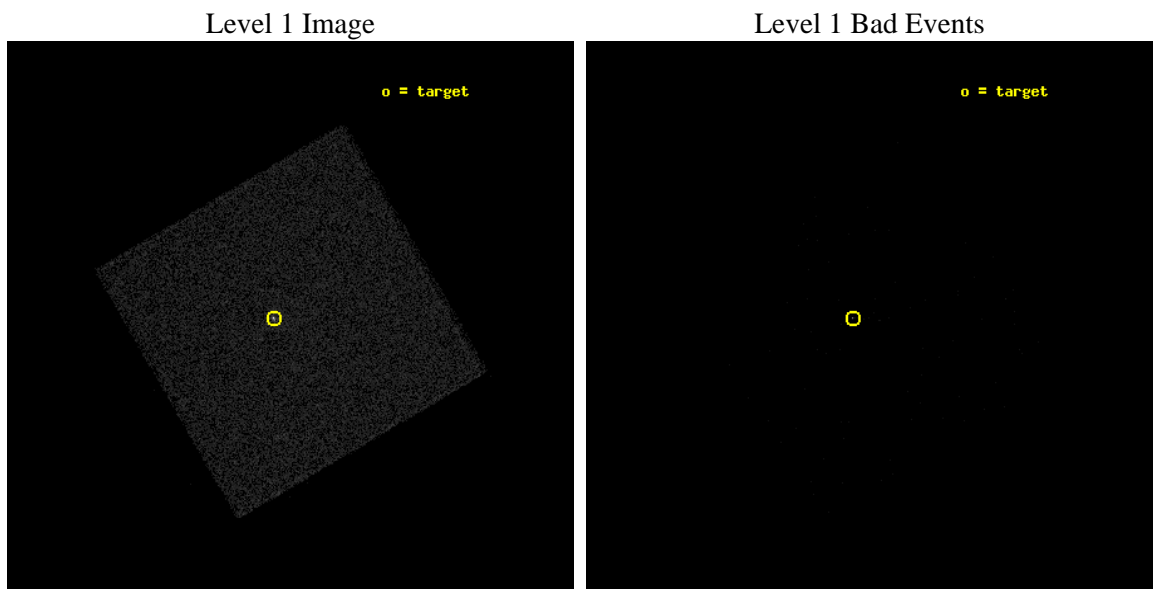
seq_num	290536	Sequence number
obs_id	6135	Observation id
title	AO5 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.12474577347	Nominal RA [deg]
dec_nom	45.729946532891	Nominal Dec [deg]
roll_nom	284.74848721224	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1087.7812988758	[s]
livetime	1079.8522782606	Ontime multiplied by DTCOR
l2events	45276	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	900.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	1087.7812988758	[s]
caldbver	4.5.4	&#160	l1events	79047	Number of level 1 events
date	2012-12-11T23:50:50	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

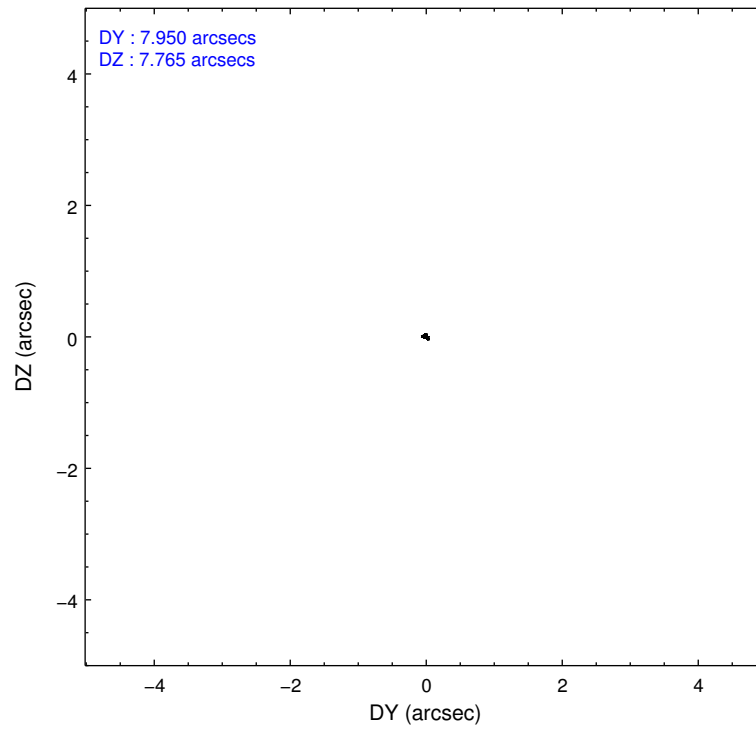
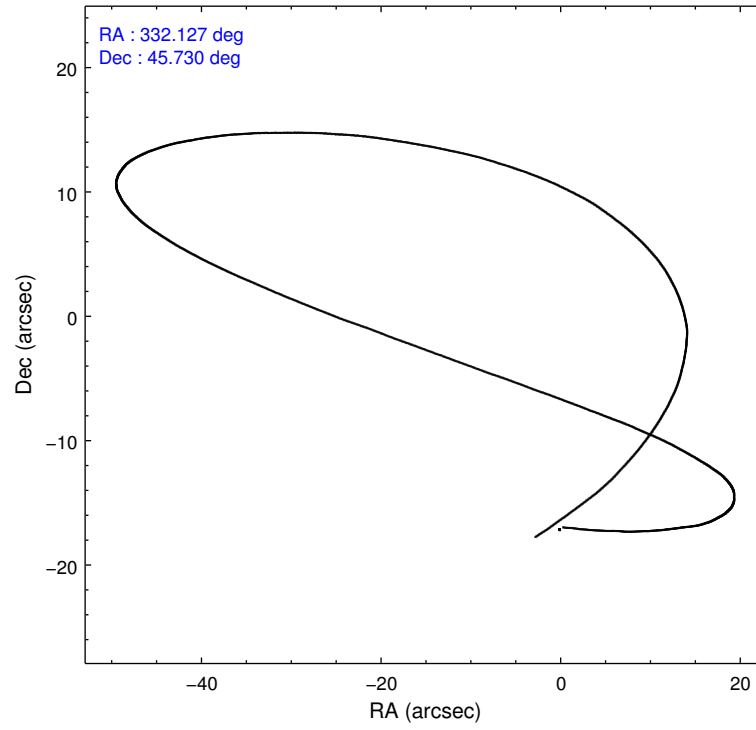
#### Level 1 Events

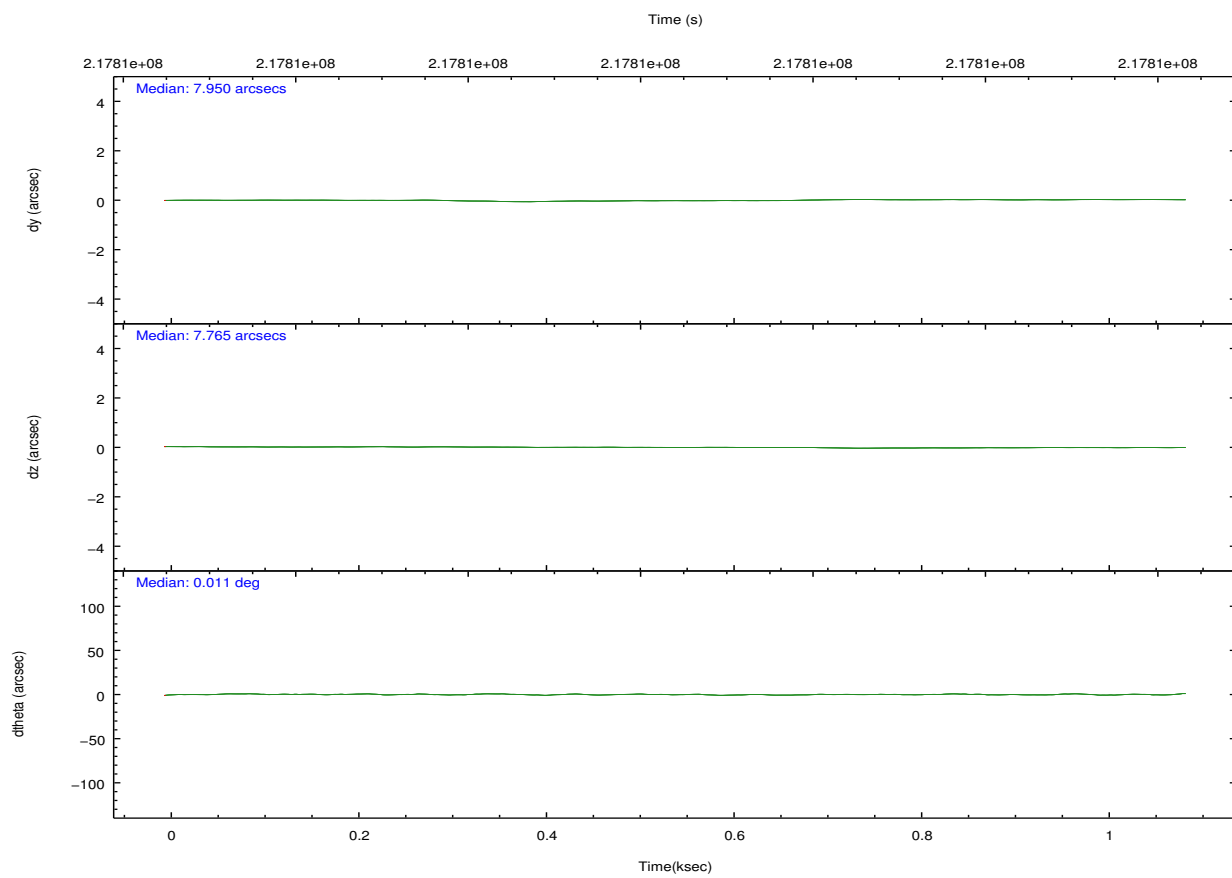
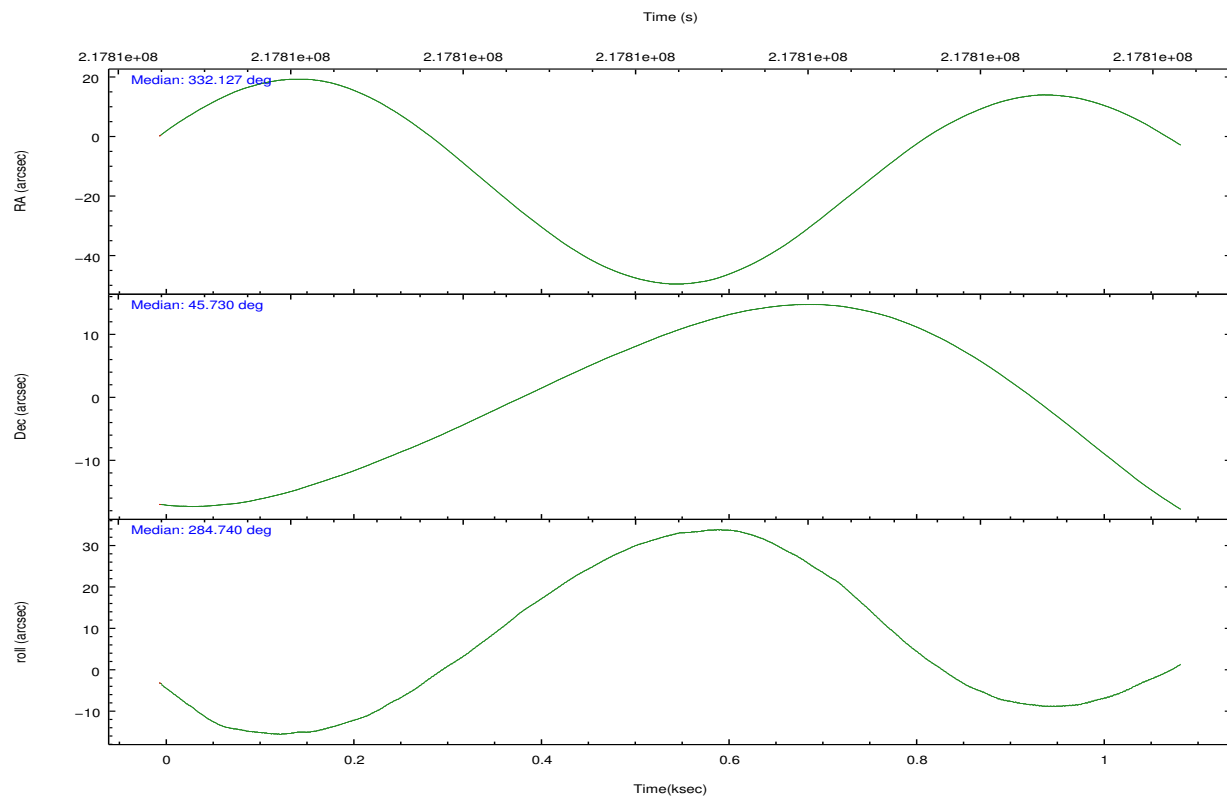
	<b>segment 0</b>
level 1 events	79047
rejected events	14022
rejected %	17%

## 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	332.095030	332.1247457734669			
[deg] Pointing Dec	45.748438	45.72994653289149			
[deg] Pointing Roll	284.865252	284.7484872122438			
[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)	217807077.184000	217806700.75916			
Observation start date	2004-11-25T21:56:53	2004-11-25T21:51:40			
[s] Observation end time (MET)	217807977.184000	217808500.65925			
Observation end date	2004-11-25T22:11:53	2004-11-25T22:21:40			

## 2.3 Aspect





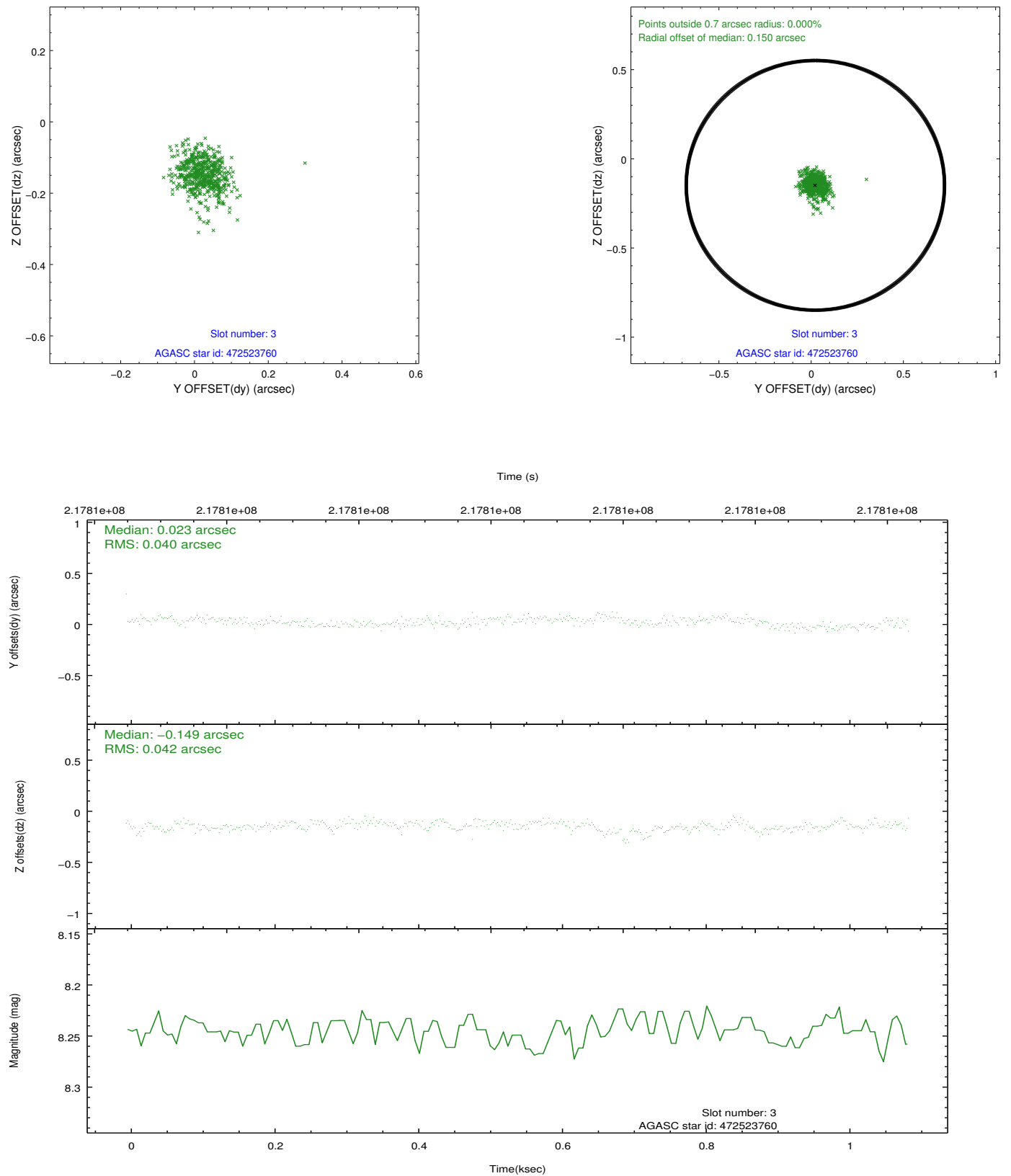
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.00	266	0.042	0.004	0.007	0.012	0.000000	0.000000	-763.58	-1295.64
1	FID	HRC-I-3	7.09	266	-0.066	-0.053	0.007	0.011	0.000000	0.000000	-1194.94	1004.01
2	FID	HRC-I-4	7.03	266	0.138	-0.041	0.006	0.011	0.000000	0.000000	1274.92	1010.16
3	GUIDE	472523760	8.24	532	0.023	-0.149	0.059	0.099	331.645363	45.403260	906.93	-1420.92
4	GUIDE	472527720	7.02	532	0.145	-0.022	0.093	0.139	331.460205	45.112509	1795.30	-2151.37
5	GUIDE	472655152	9.43	532	0.013	0.061	0.114	0.192	332.504239	45.862991	-134.32	1089.73
6	GUIDE	472659832	9.47	532	-0.058	-0.003	0.101	0.174	332.780399	46.098139	-785.23	1976.14
7	GUIDE	472533912	9.16	531	-0.127	0.111	0.079	0.136	331.791136	46.368695	-2354.49	-157.19

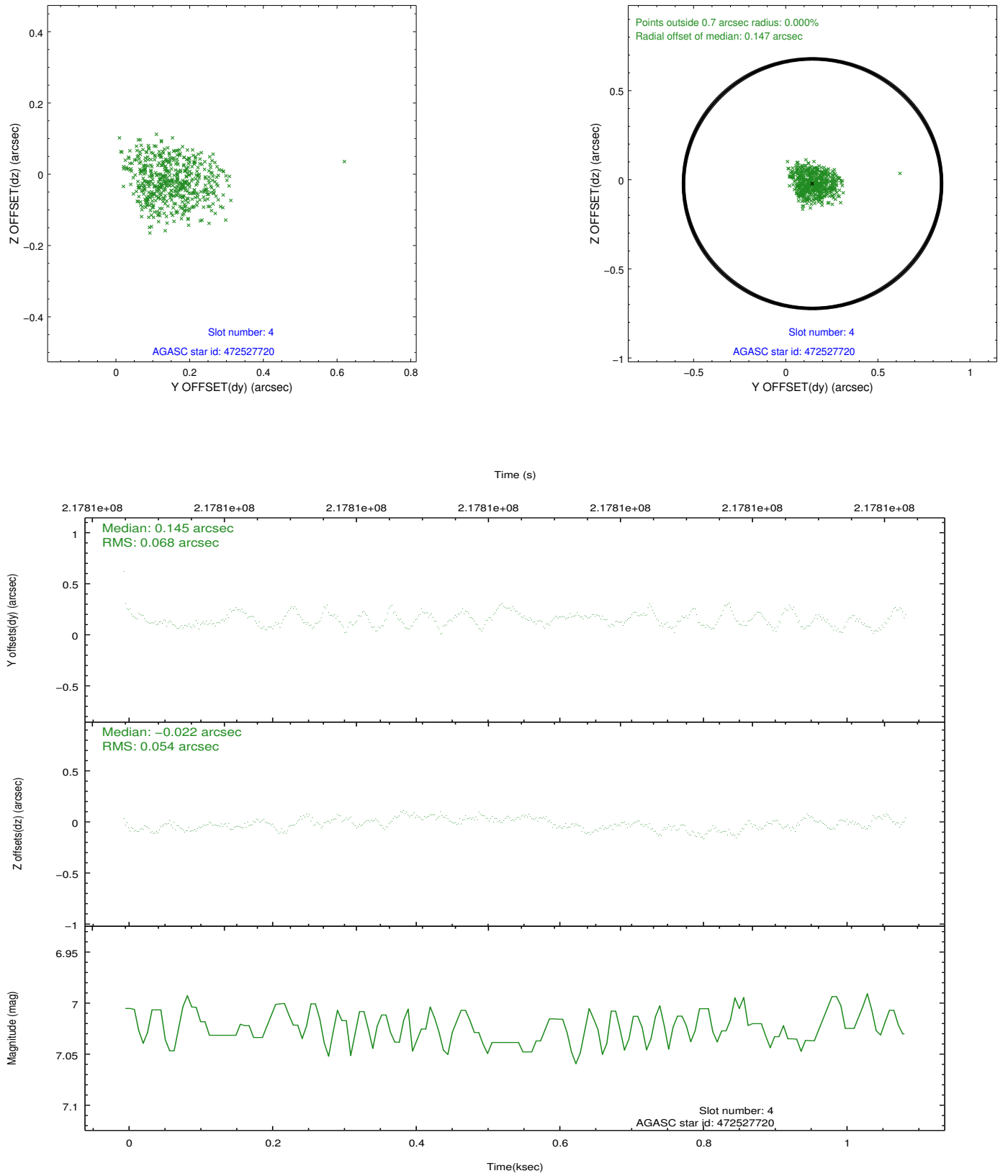


## 2.4 Star Slots

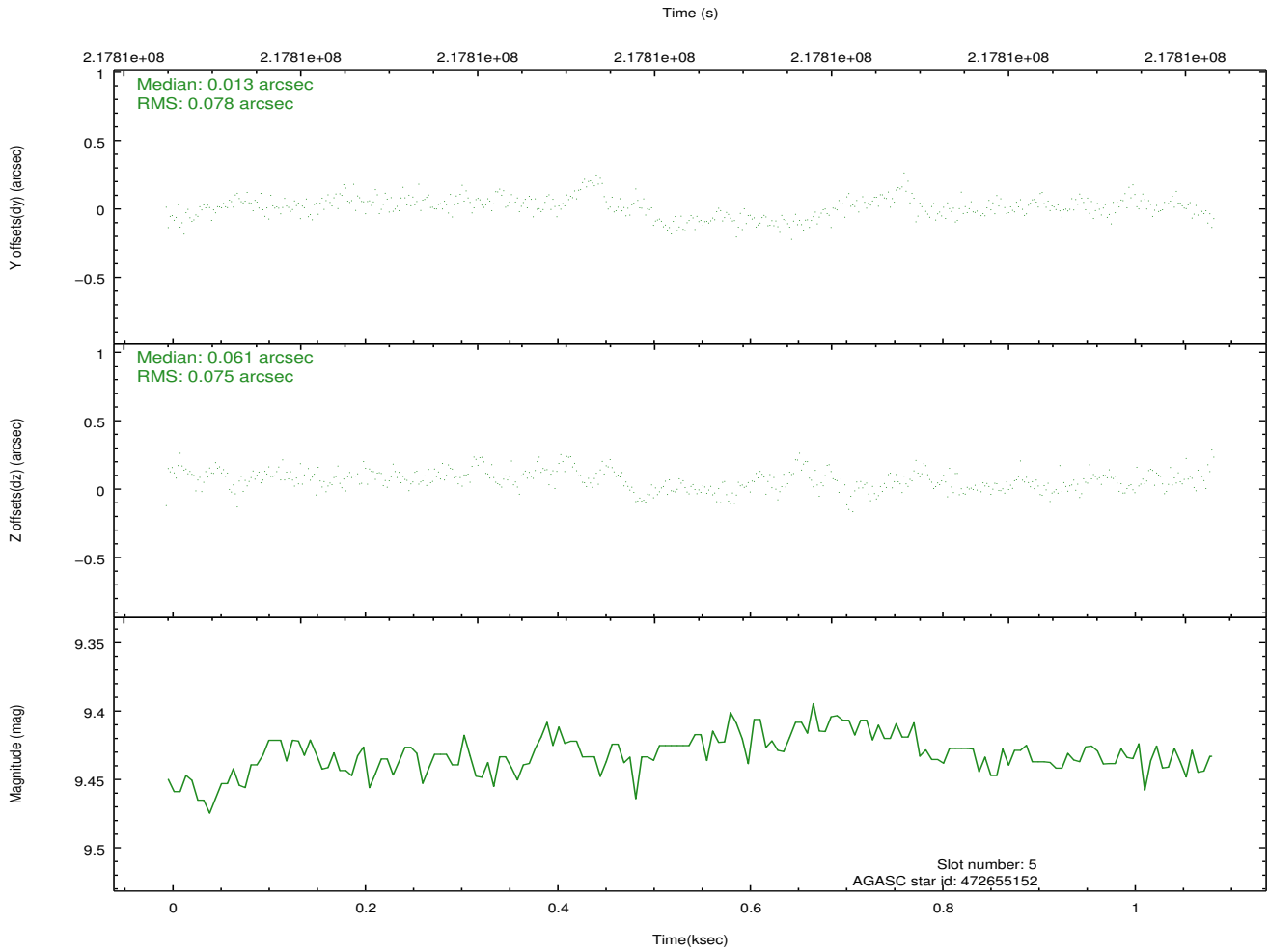
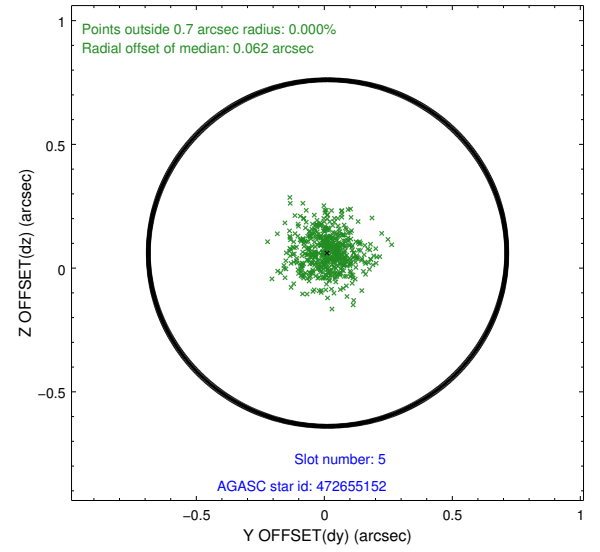
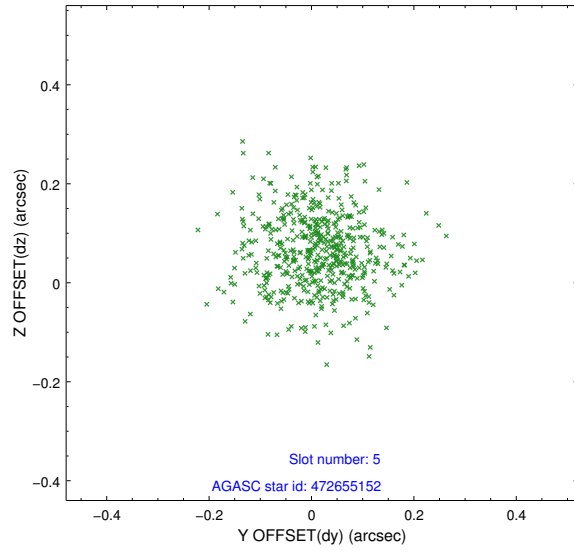
### 2.4.1 Slot 3



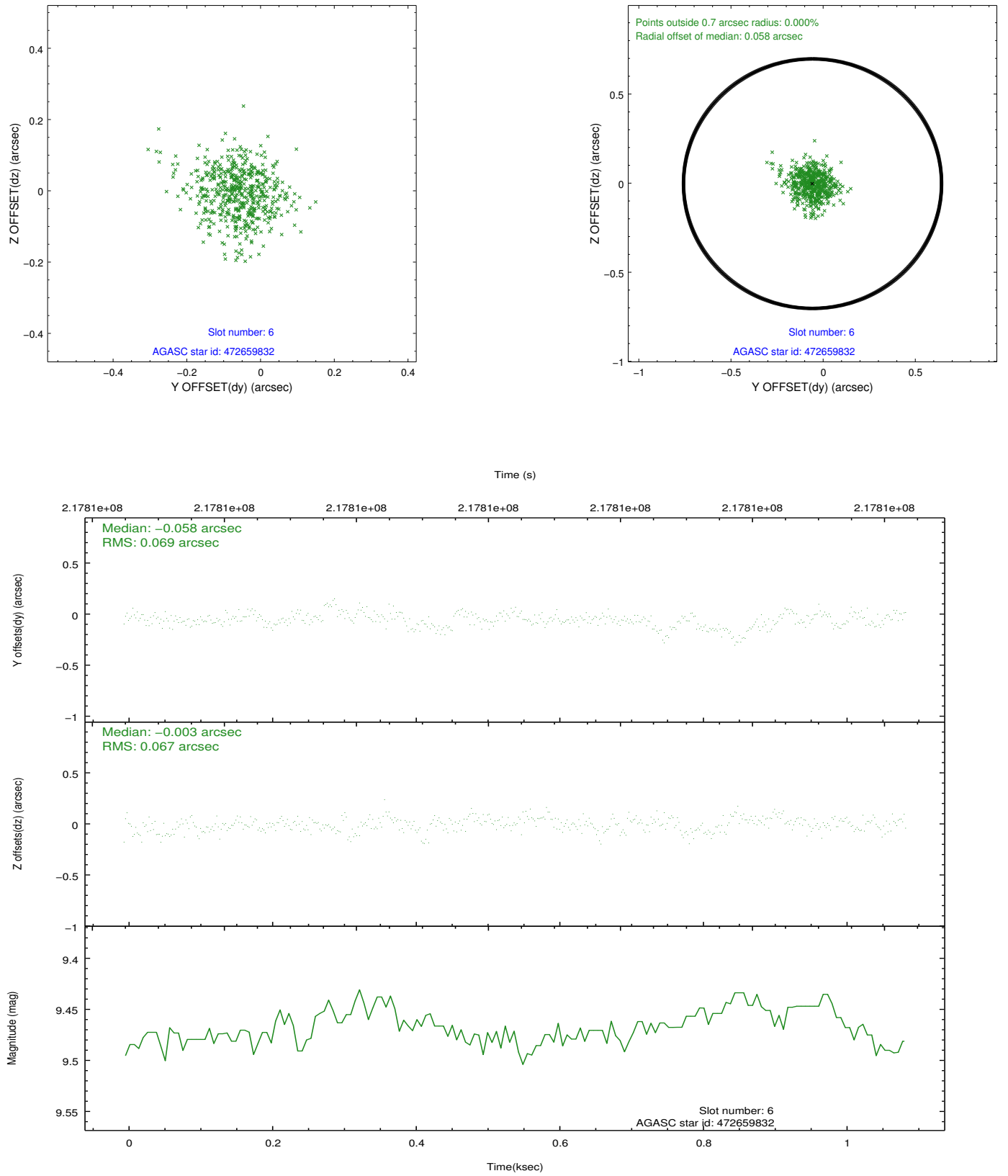
## 2.4.2 Slot 4



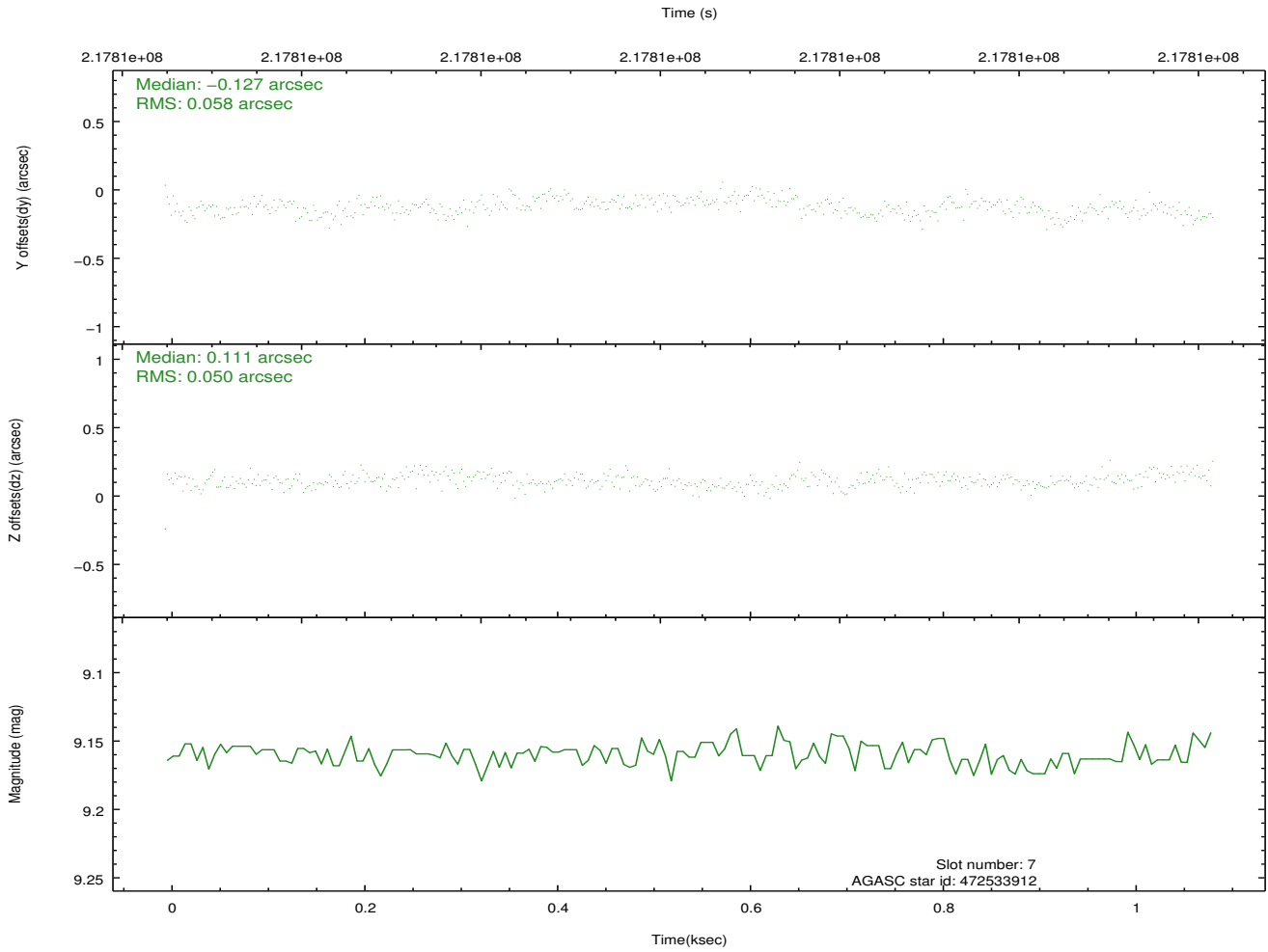
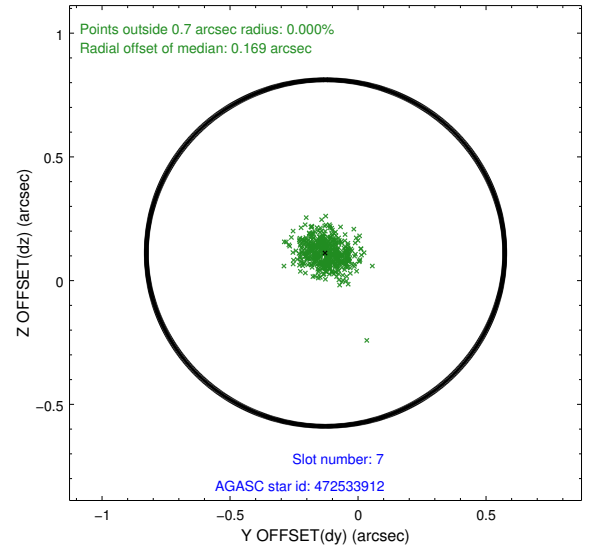
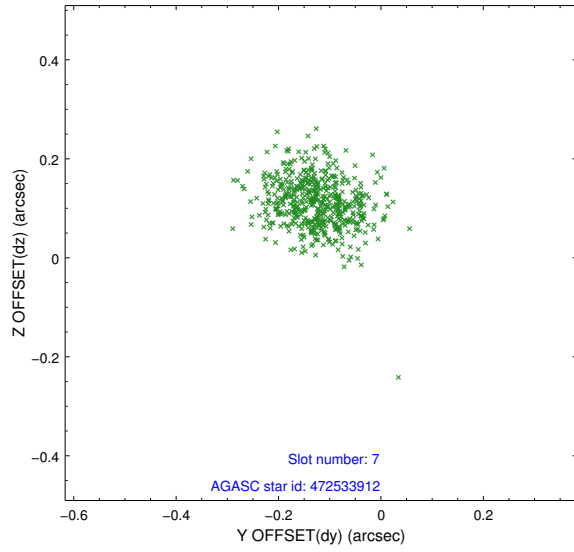
### 2.4.3 Slot 5



## 2.4.4 Slot 6

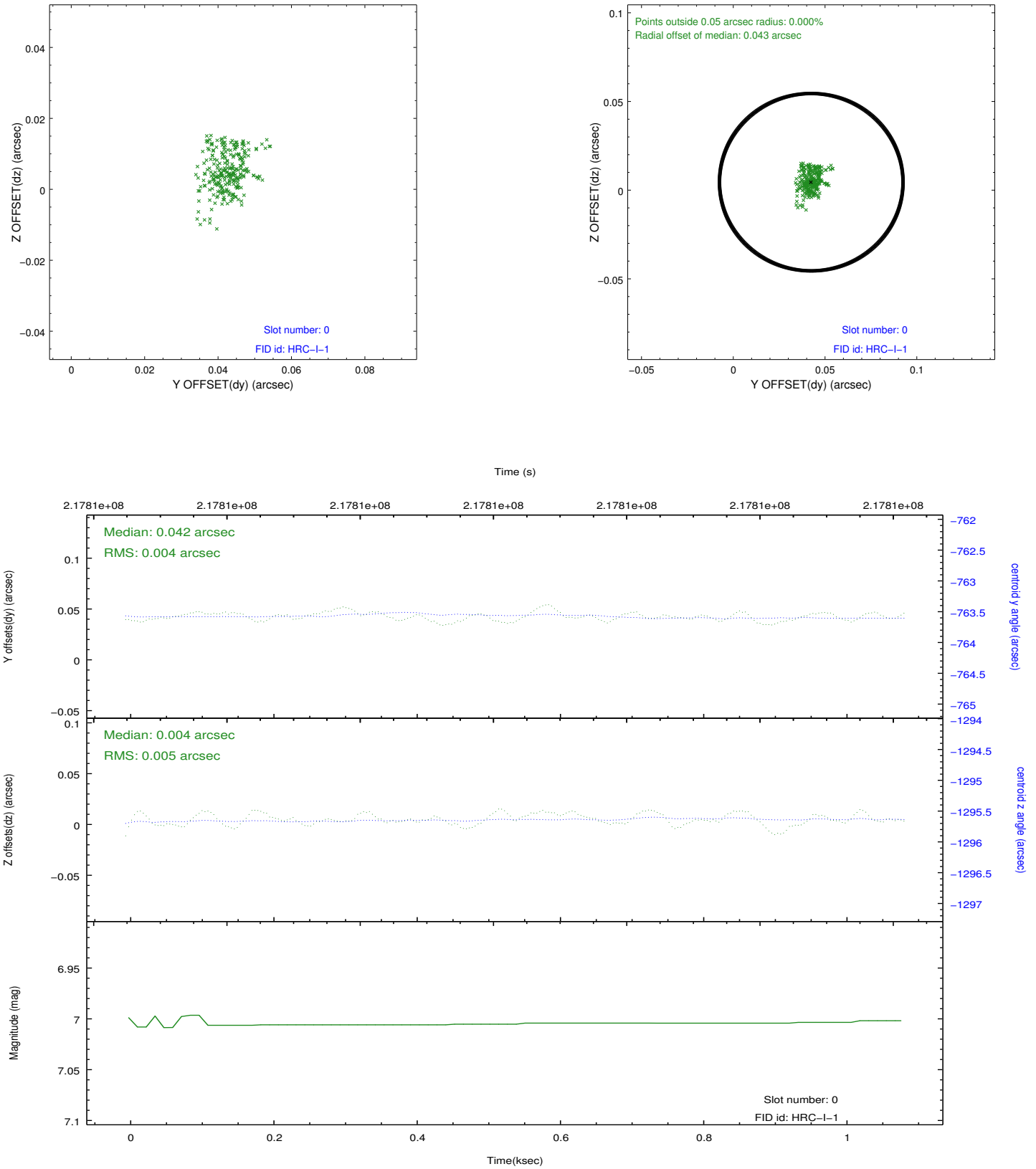


## 2.4.5 Slot 7

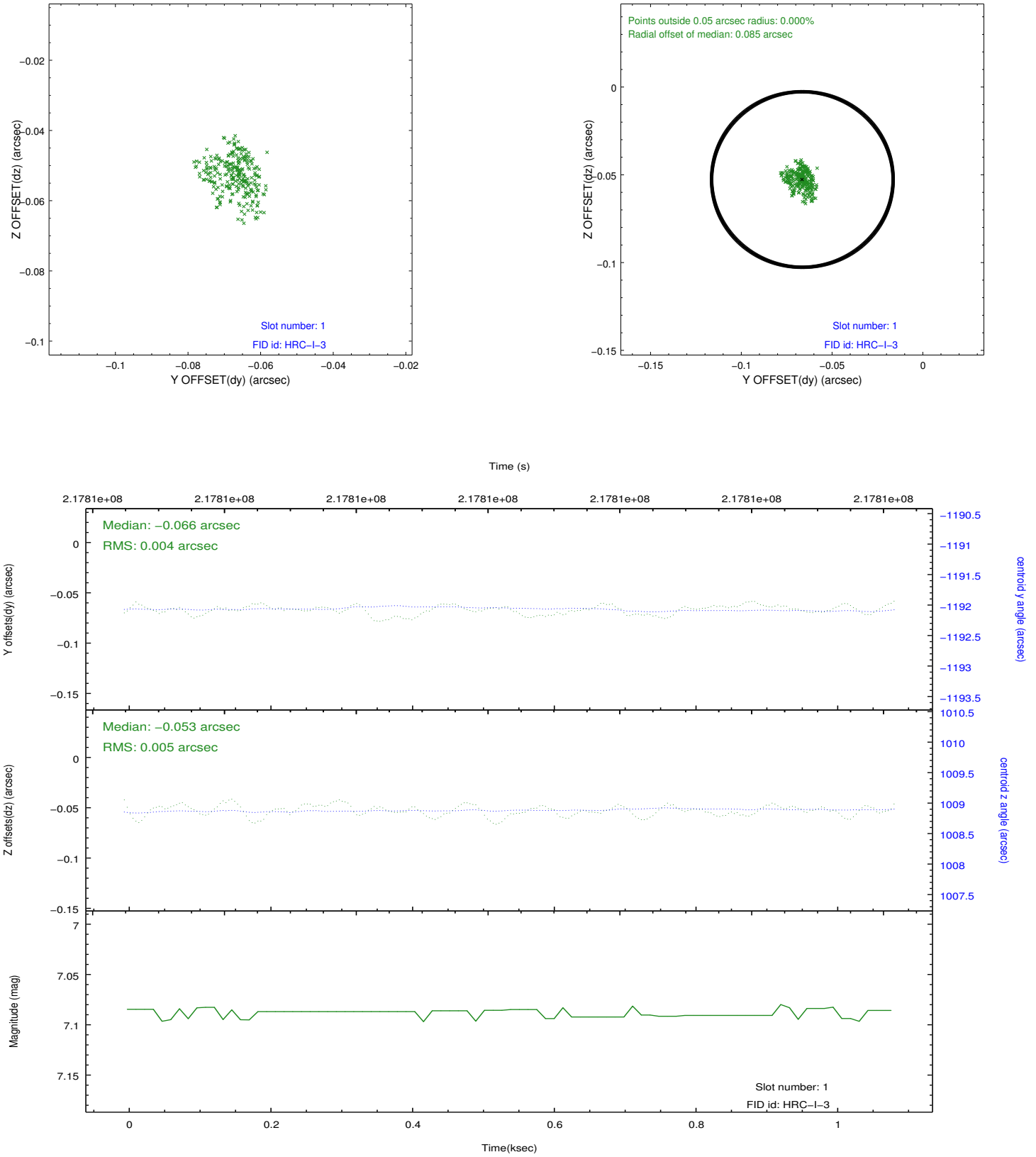


## 2.5 FID Slots

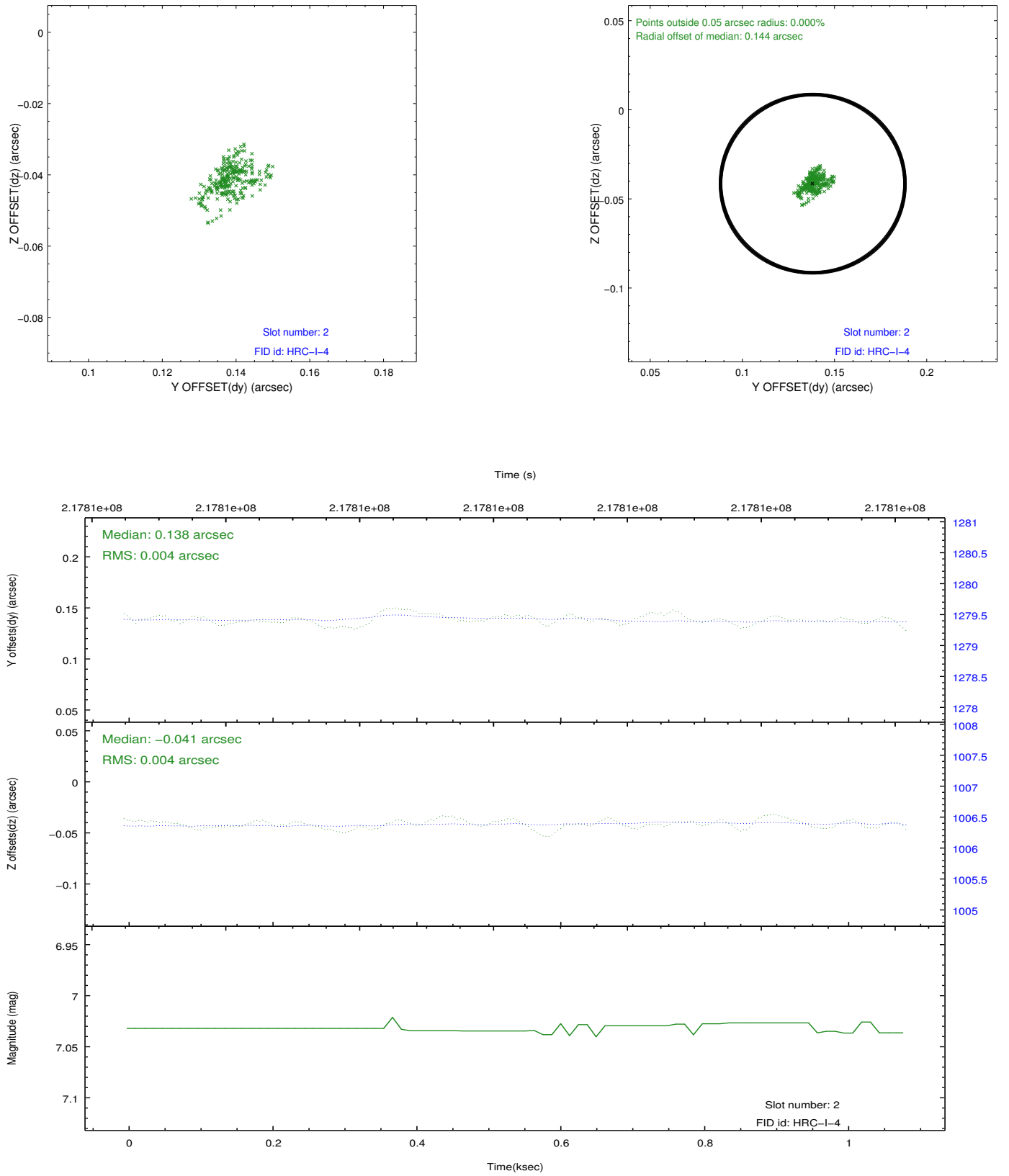
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.087781

### A.2 Comments