

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4337 - L2 Version 3  
Chandra X-Ray Center

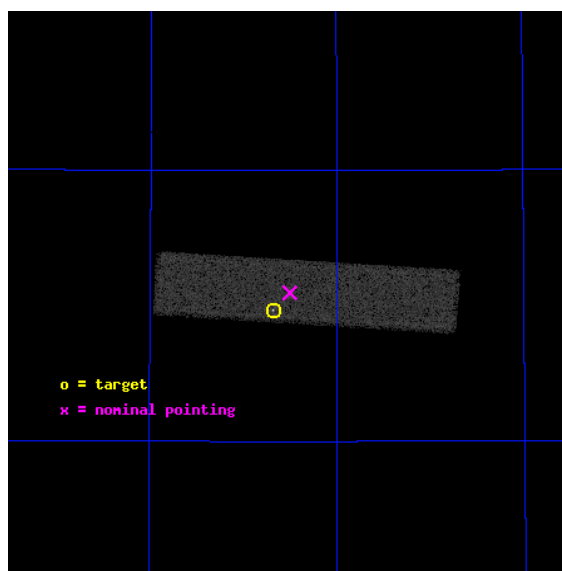
L2 Processing Date : Oct 23 2012

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# 1 Front

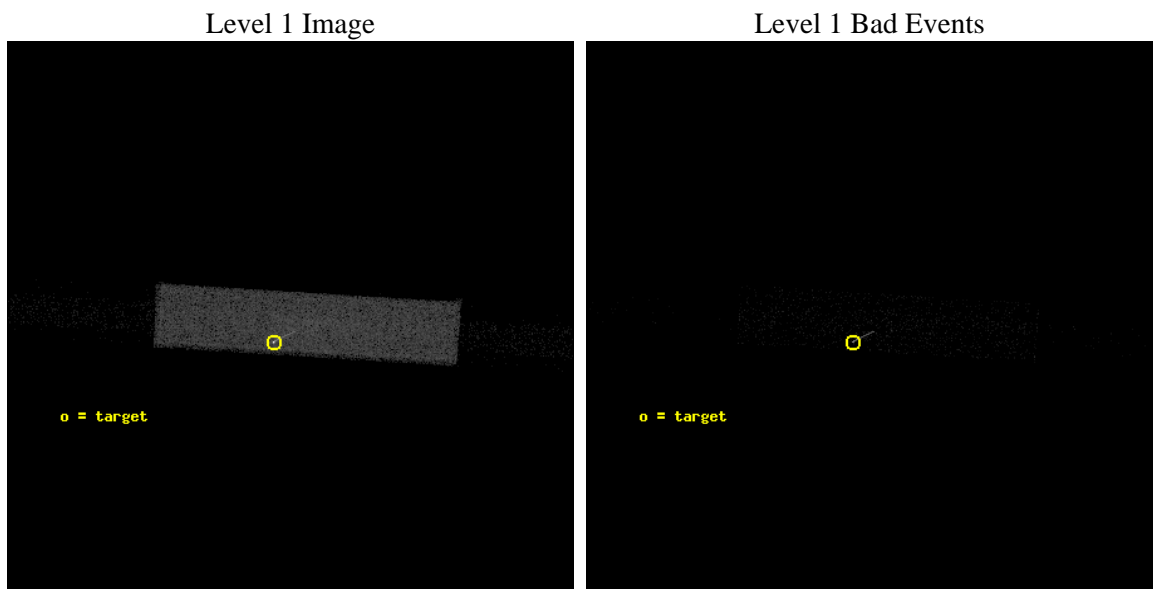
seq_num	290297	Sequence number
obs_id	4337	Observation id
title	AO4A CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-S GAIN	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.12550903359	Nominal RA [deg]
dec_nom	45.774719384127	Nominal Dec [deg]
roll_nom	3.4553950424092	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1142.1062980592	[s]
livetime	1136.4479757666	Ontime multiplied by DTCOR
l2events	38772	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1142.1062980592	[s]
caldsver	4.5.2	&#160	l1events	64755	Number of level 1 events
date	2012-10-23T09:06:14	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

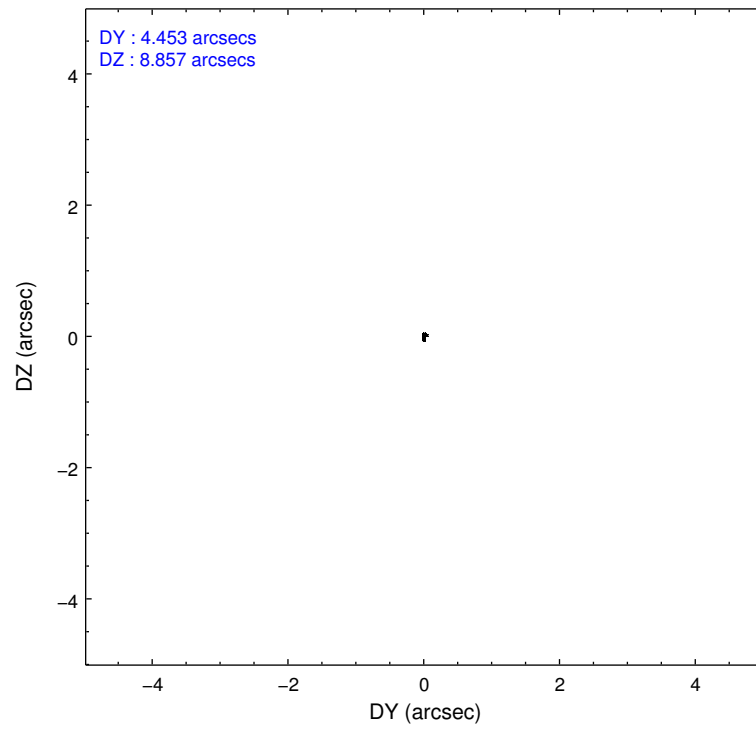
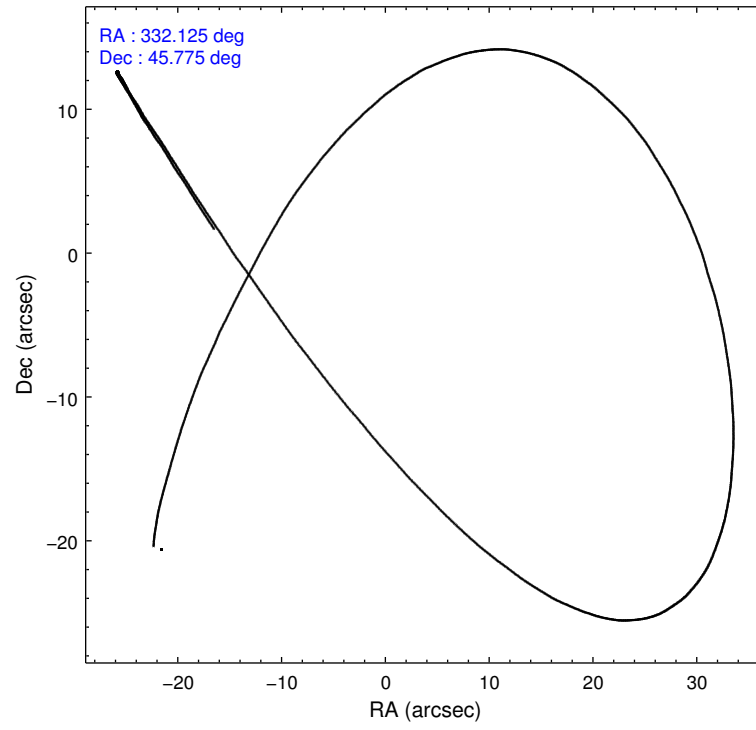
Level 1 Events

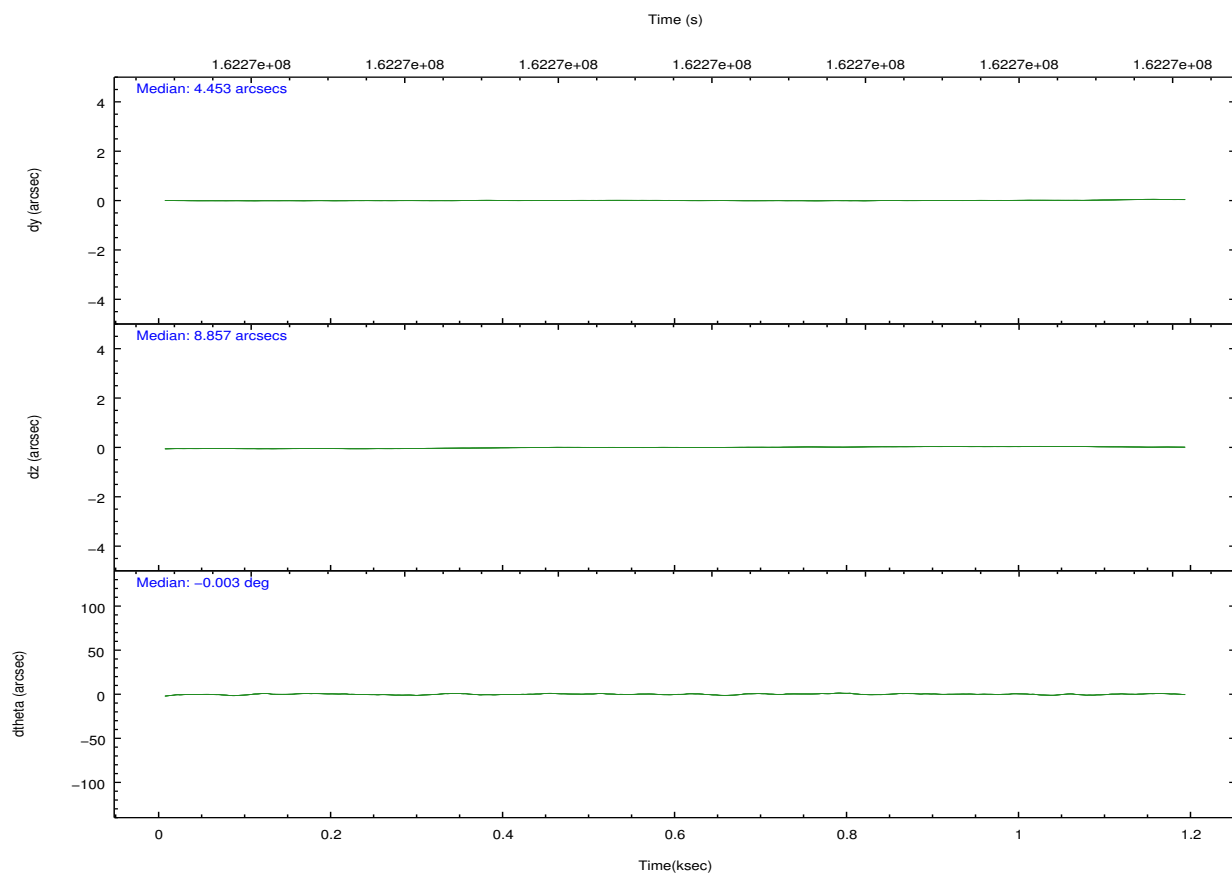
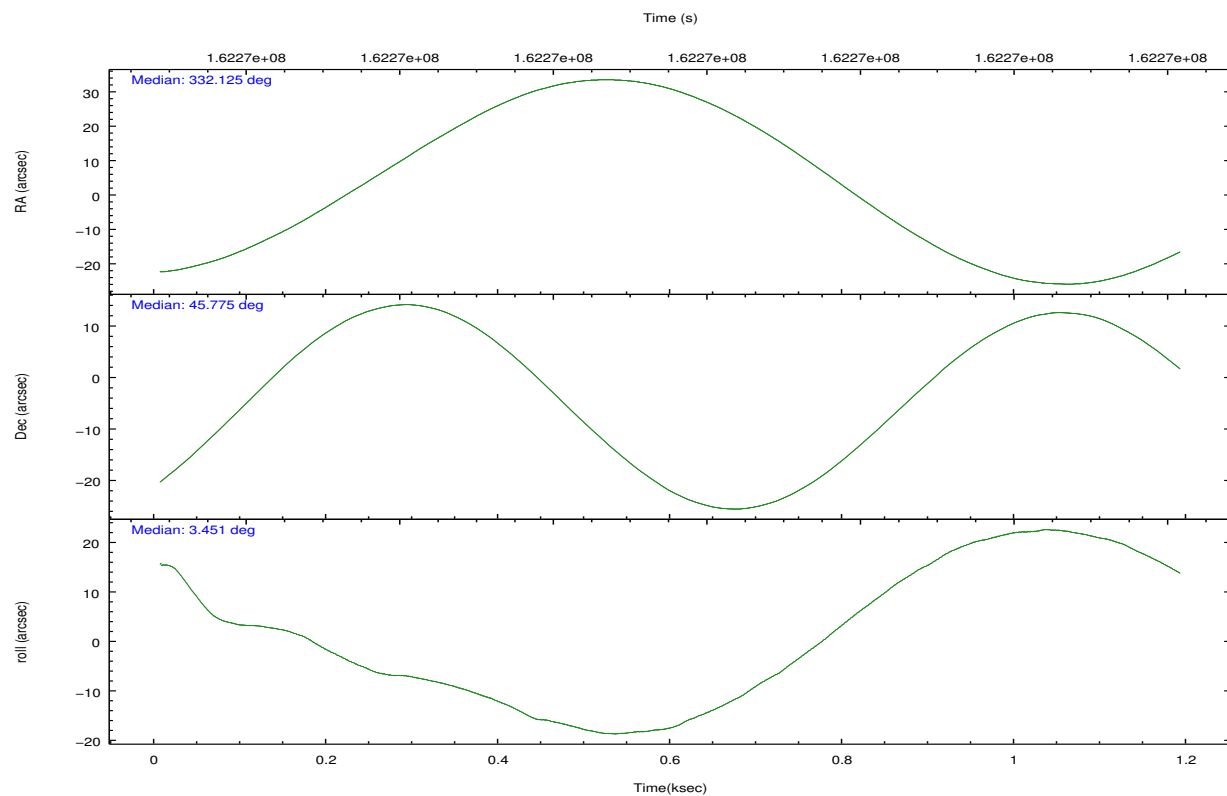
	segment 1	segment 2	segment 3
level 1 events	1141	62599	1015
rejected events	1141	14439	1015
rejected %	100%	23%	100%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.093162	332.1255090335906			
[deg] Pointing Dec	45.756833	45.77471938412653			
[deg] Pointing Roll	3.411201	3.455395042409203			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	162269345.184000	162268969.59352			
Observation start date	2003-02-22T02:48:01	2003-02-22T02:42:49			
[s] Observation end time (MET)	162270345.184000	162270479.41858			
Observation end date	2003-02-22T03:04:41	2003-02-22T03:07:59			

## 2.3 Aspect





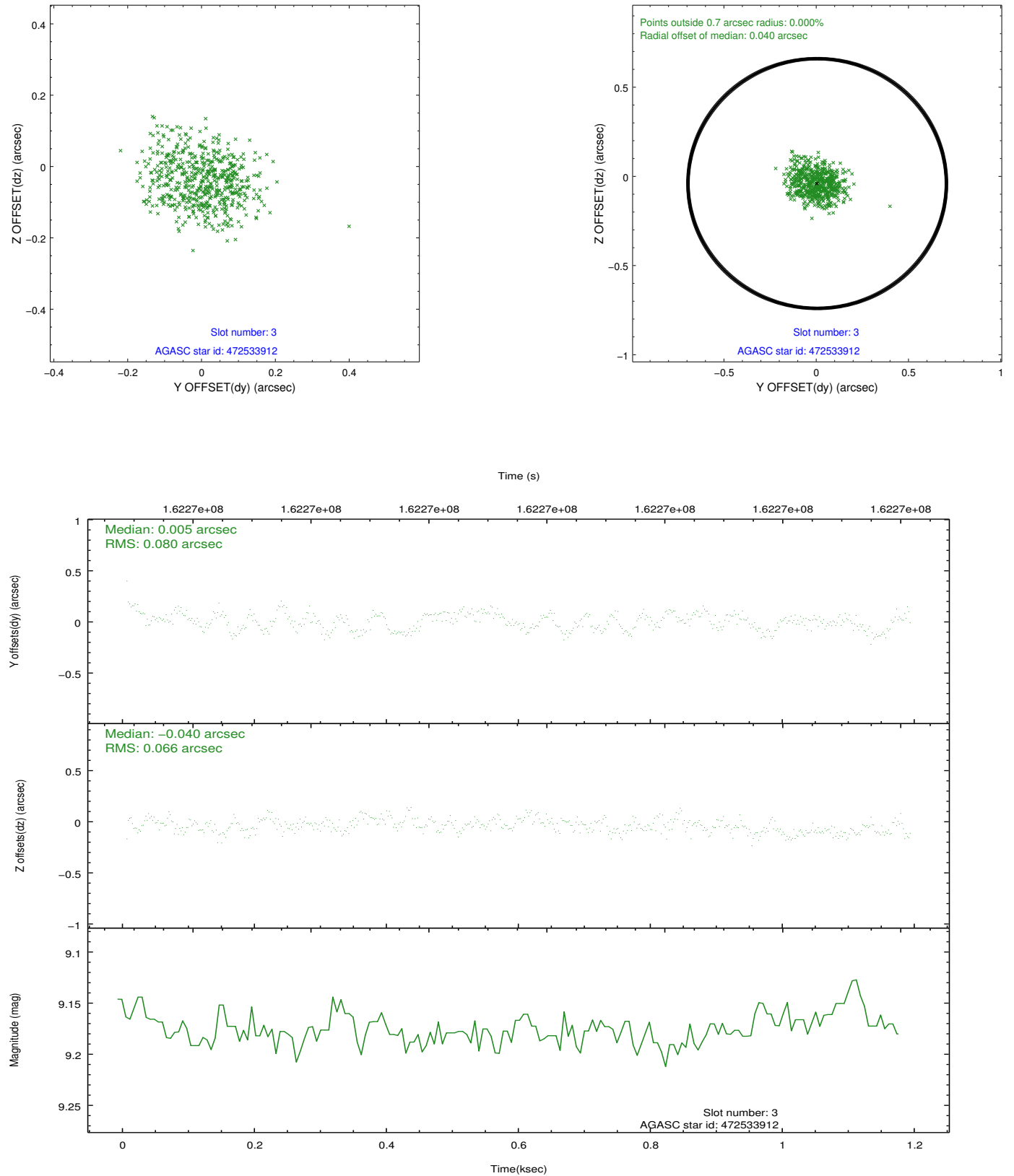
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.02	290	0.162	-0.161	0.006	0.010	0.000000	0.000000	-1158.51	-457.48
1	FID	HRC-S-2	7.00	290	0.064	-0.086	0.004	0.009	0.000000	0.000000	1237.08	-451.65
2	FID	HRC-S-3	7.03	290	0.165	-0.055	0.006	0.013	0.000000	0.000000	-1156.95	570.59
3	GUIDE	472533912	9.18	580	0.005	-0.040	0.110	0.171	331.791136	46.368695	-616.33	2241.45
4	GUIDE	472659832	9.46	580	0.009	0.106	0.101	0.163	332.780399	46.098139	1786.60	1132.62
5	GUIDE	472527720	6.99	580	-0.079	-0.035	0.068	0.104	331.460205	45.112509	-1738.13	-2215.05
6	GUIDE	472523760	8.24	580	-0.099	-0.052	0.065	0.105	331.645363	45.403260	-1206.81	-1207.43
7	GUIDE	472655152	9.43	570	0.161	0.011	0.094	0.165	332.504239	45.862991	1051.29	317.56

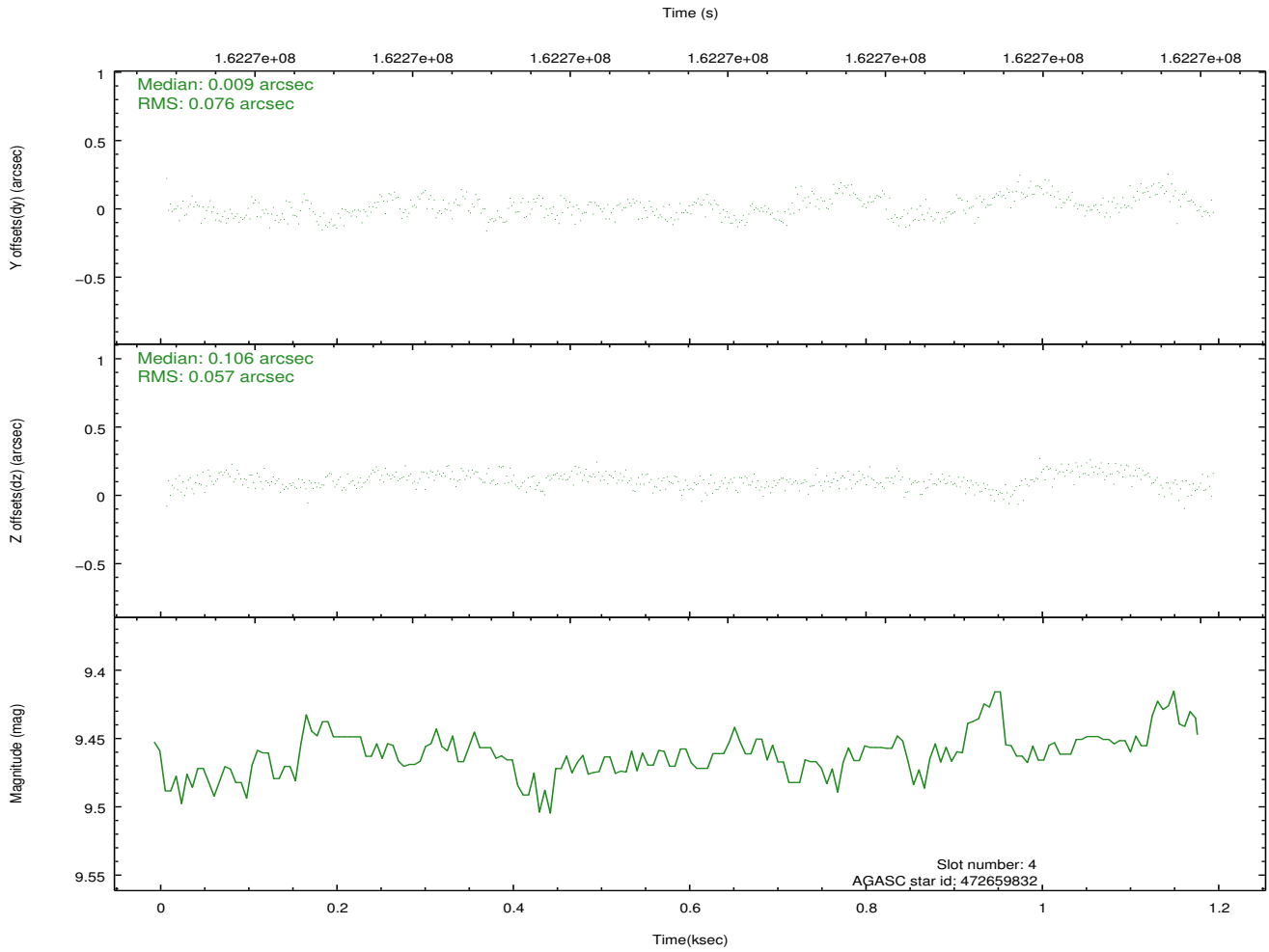
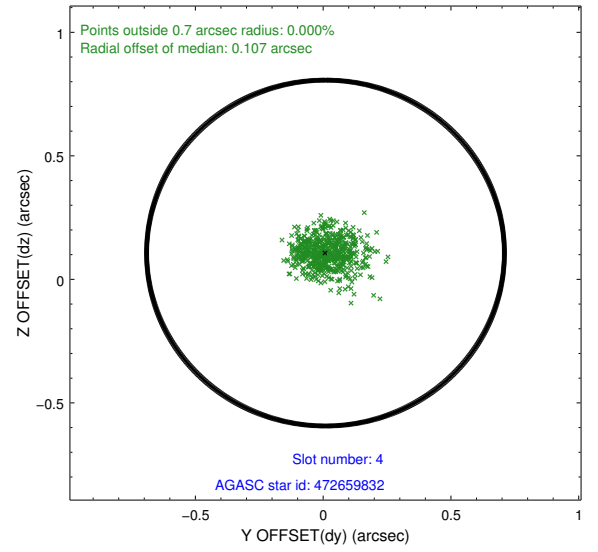
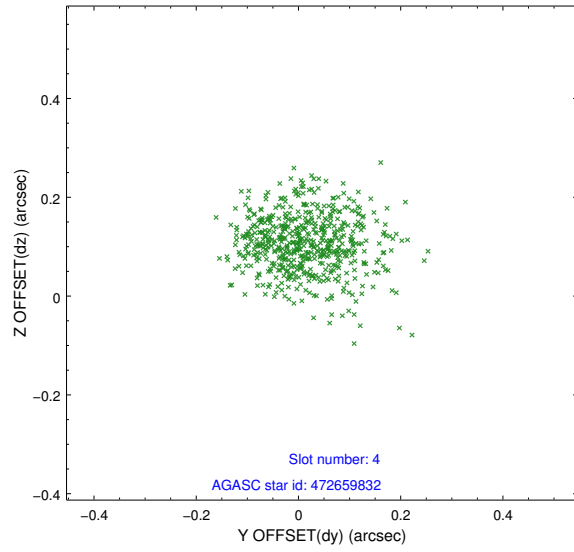


## 2.4 Star Slots

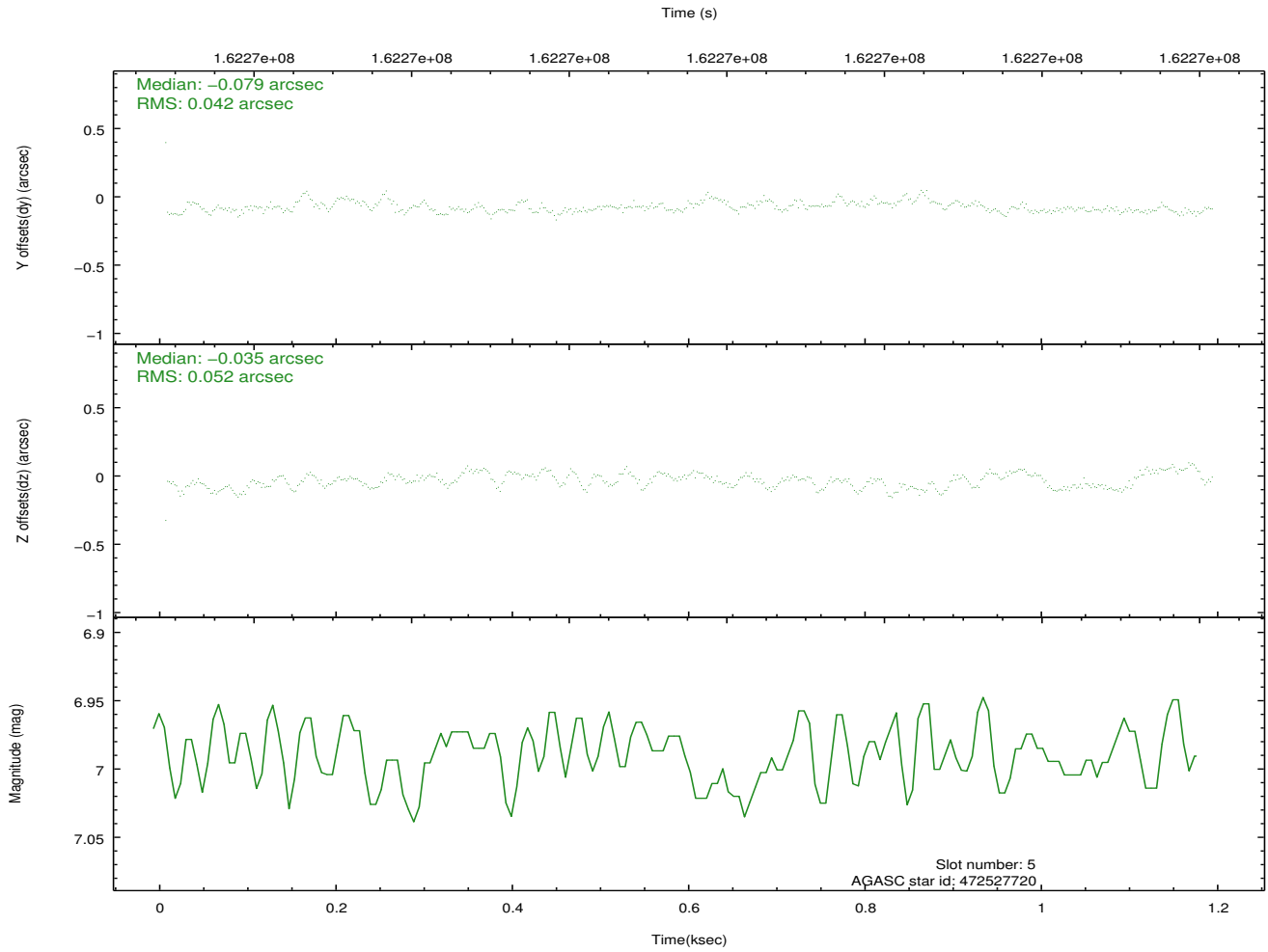
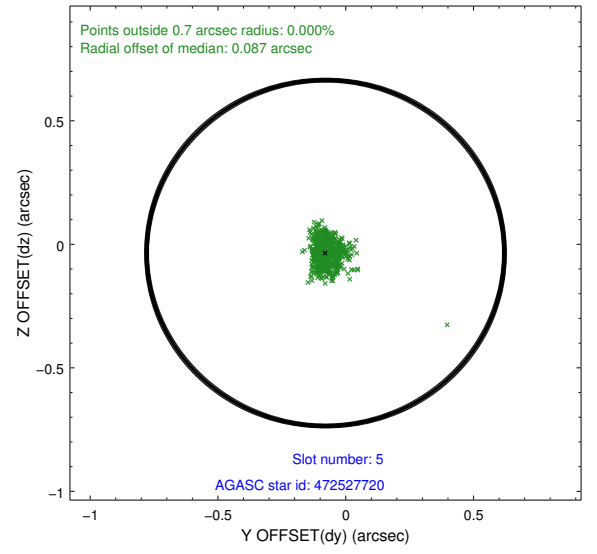
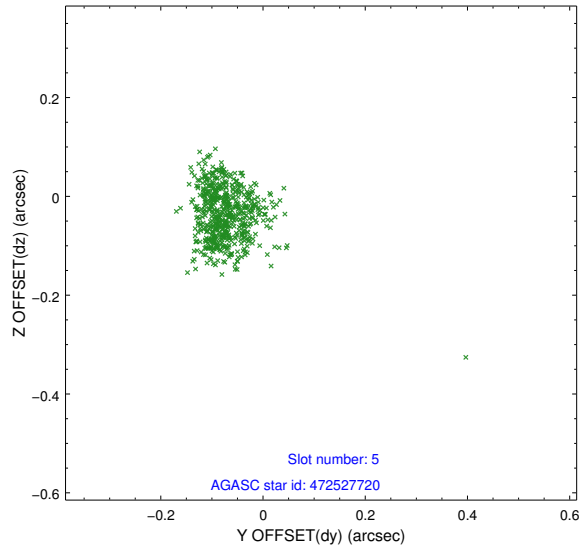
### 2.4.1 Slot 3



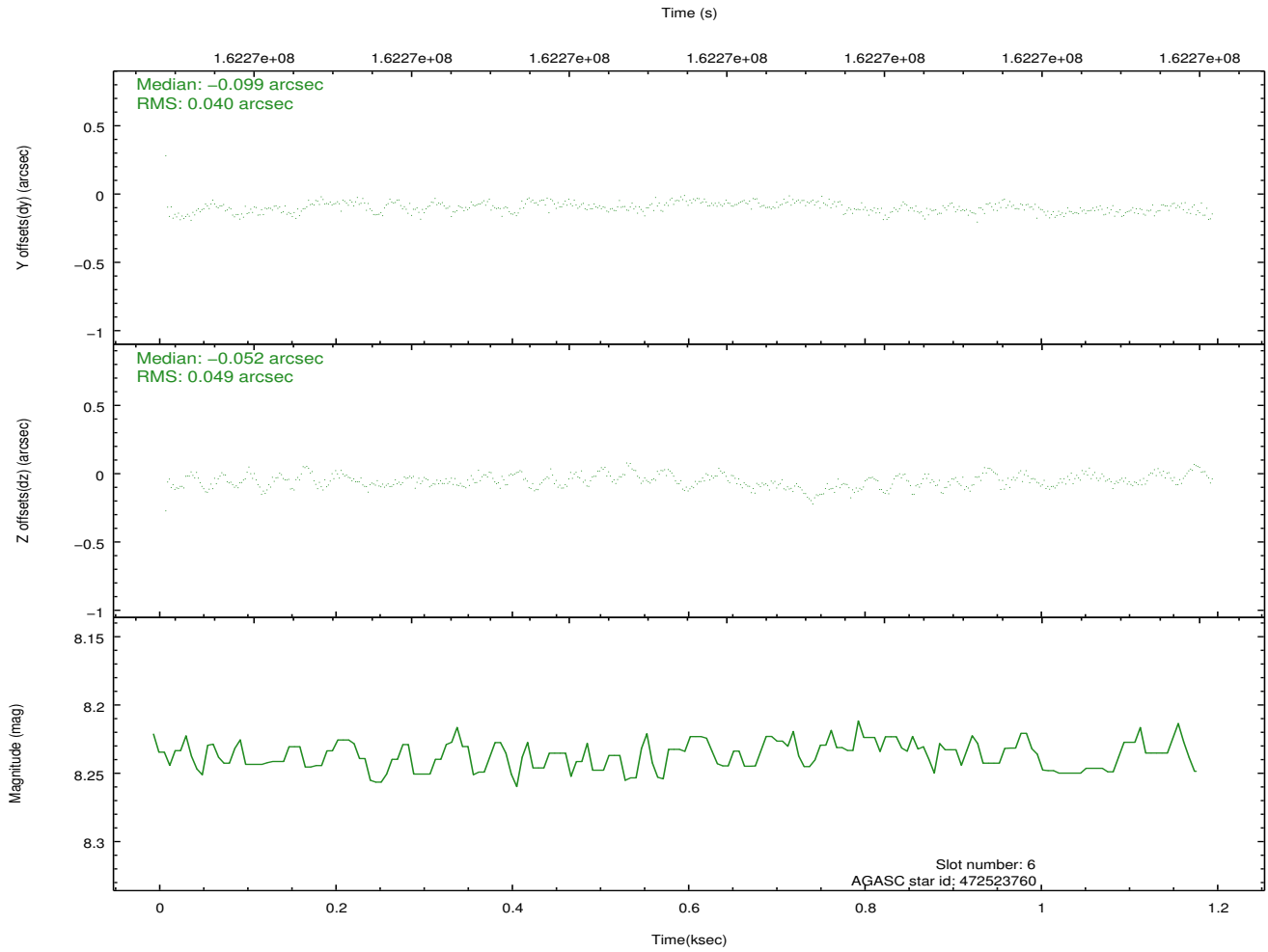
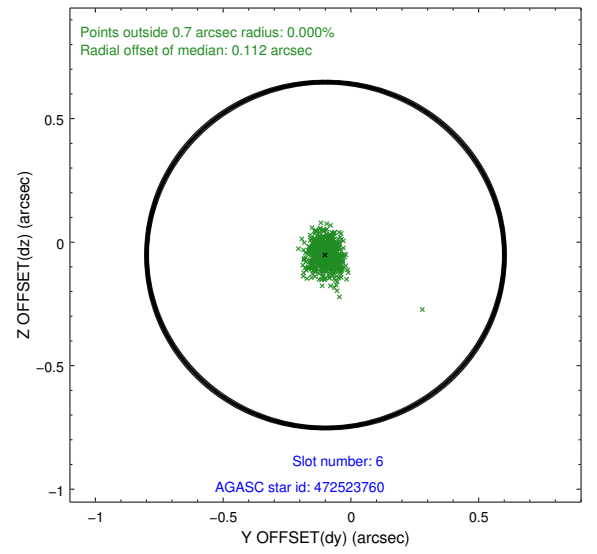
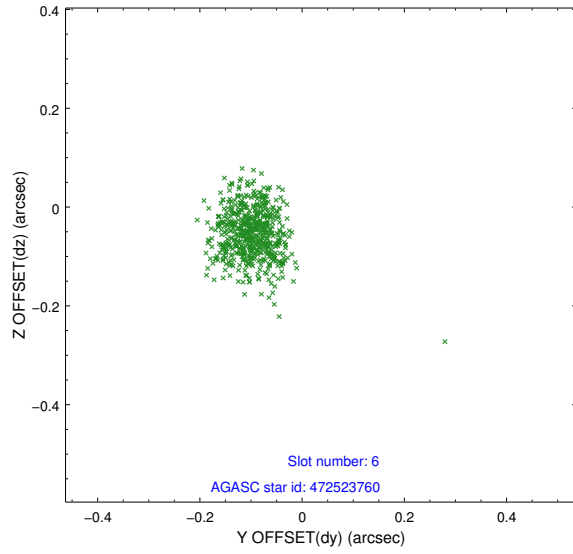
## 2.4.2 Slot 4



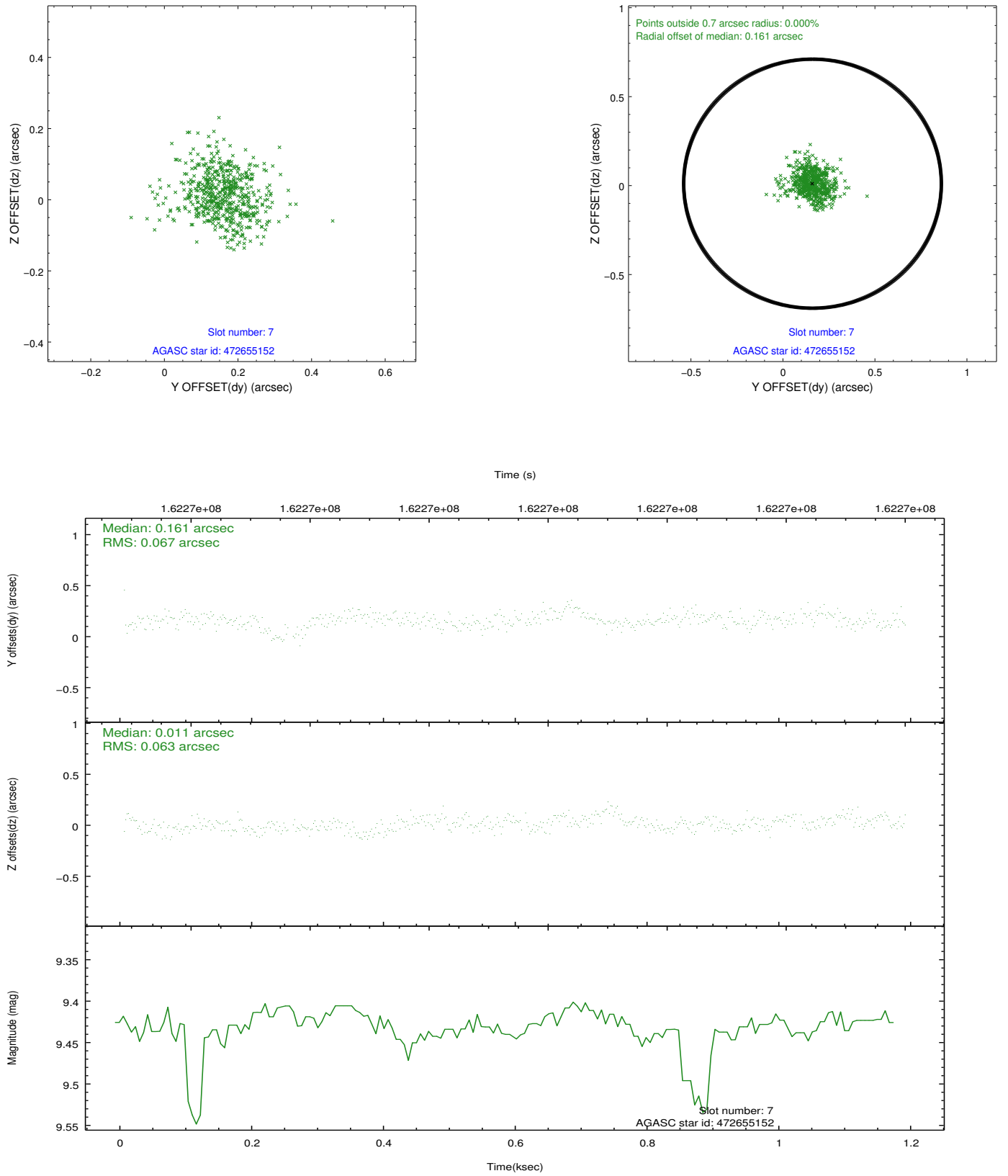
### 2.4.3 Slot 5



## 2.4.4 Slot 6

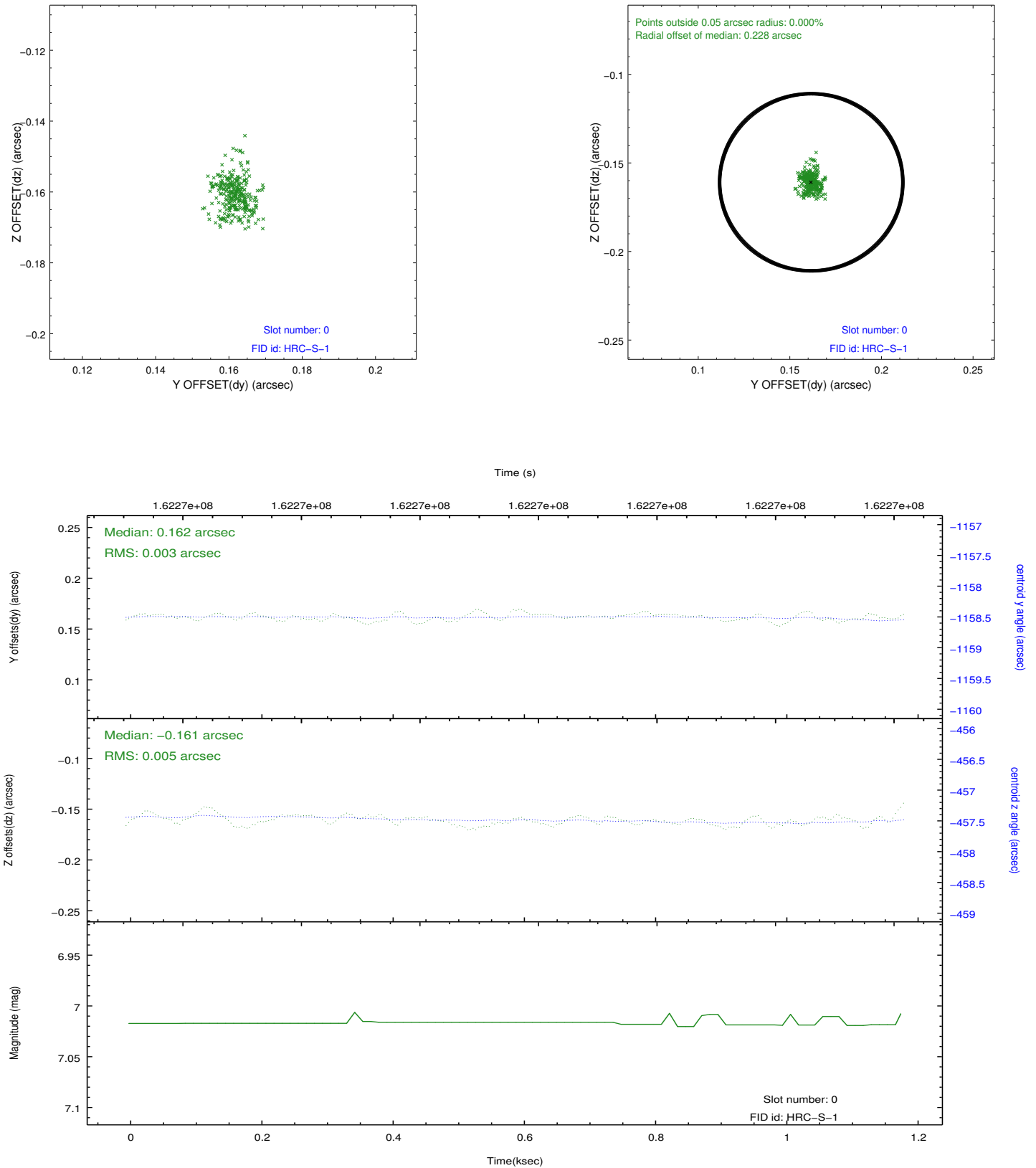


## 2.4.5 Slot 7

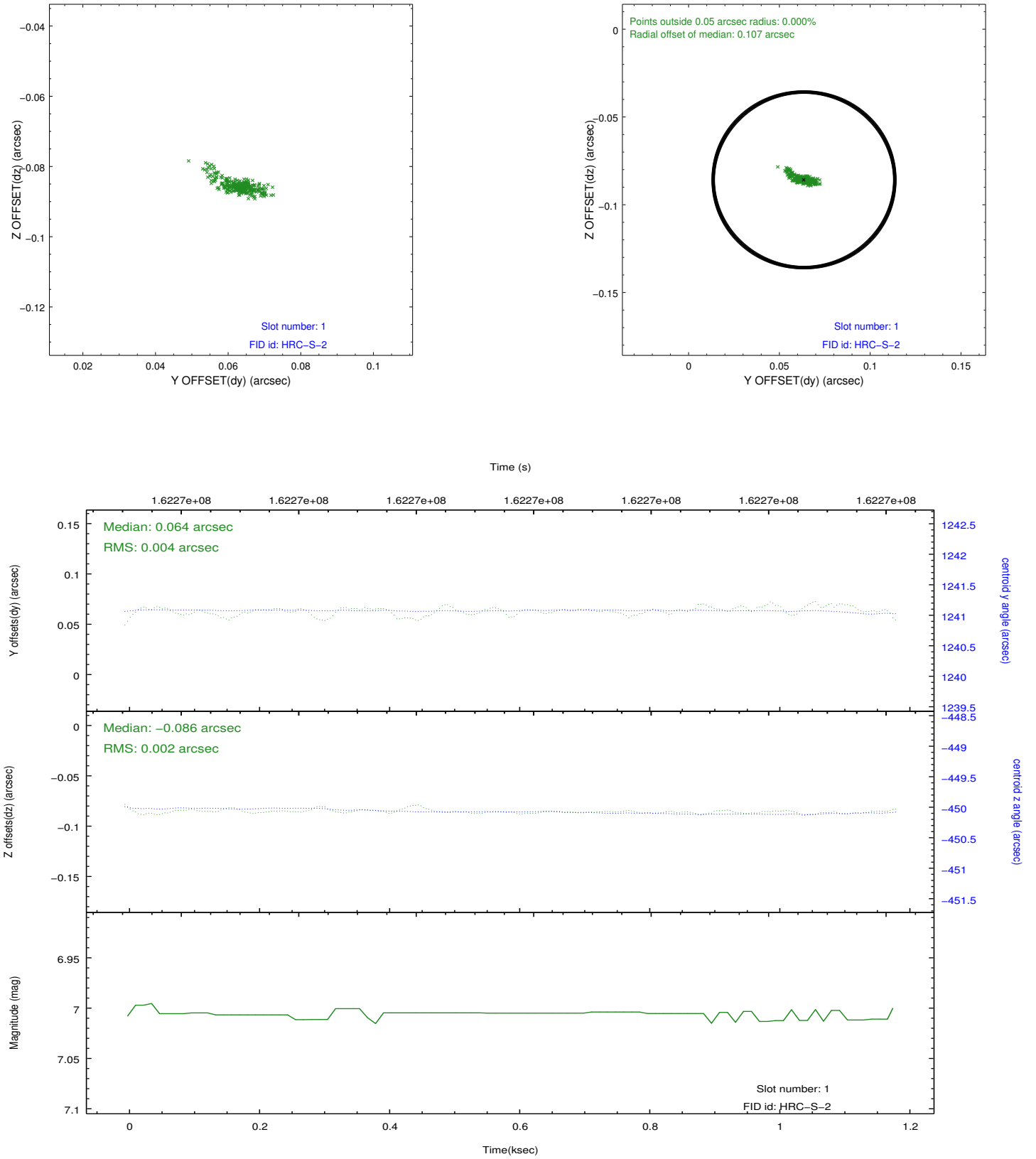


## 2.5 FID Slots

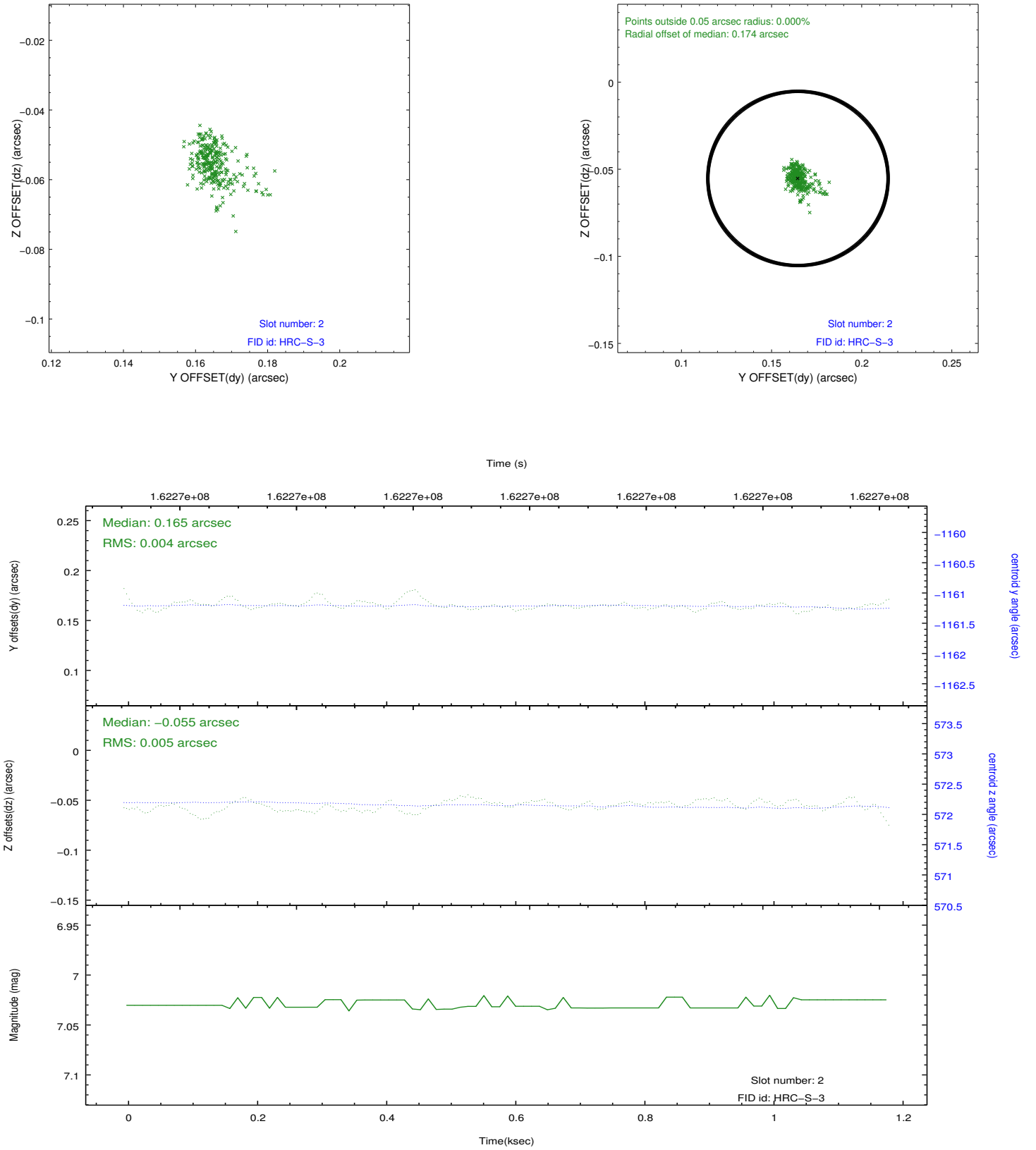
### 2.5.1 Slot 0



## 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)	2012.11.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.142

### **A.2 Comments**