

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4333 - L2 Version 3  
Chandra X-Ray Center

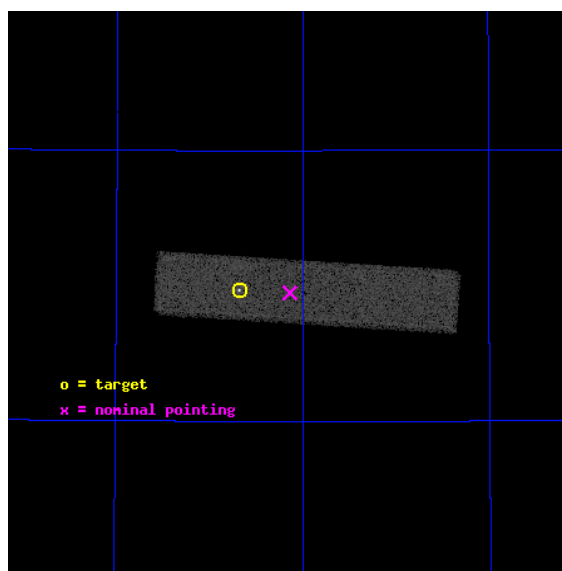
L2 Processing Date : Oct 23 2012

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# 1 Front

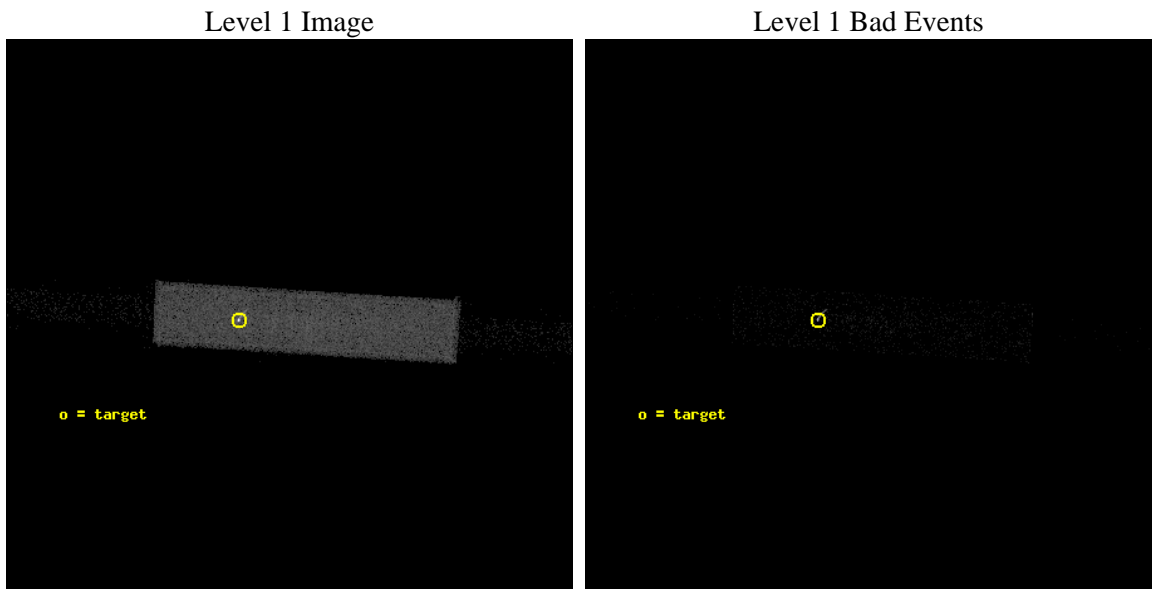
seq_num	290293	Sequence number
obs_id	4333	Observation id
title	AO4A CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-S GAIN	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.03416934218	Nominal RA [deg]
dec_nom	45.737708465908	Nominal Dec [deg]
roll_nom	3.4803206798942	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1142.1062980592	[s]
livetime	1135.8264619926	Ontime multiplied by DTCOR
l2events	44226	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	71688	Number of level 1 events
date	2012-10-23T09:06:01	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

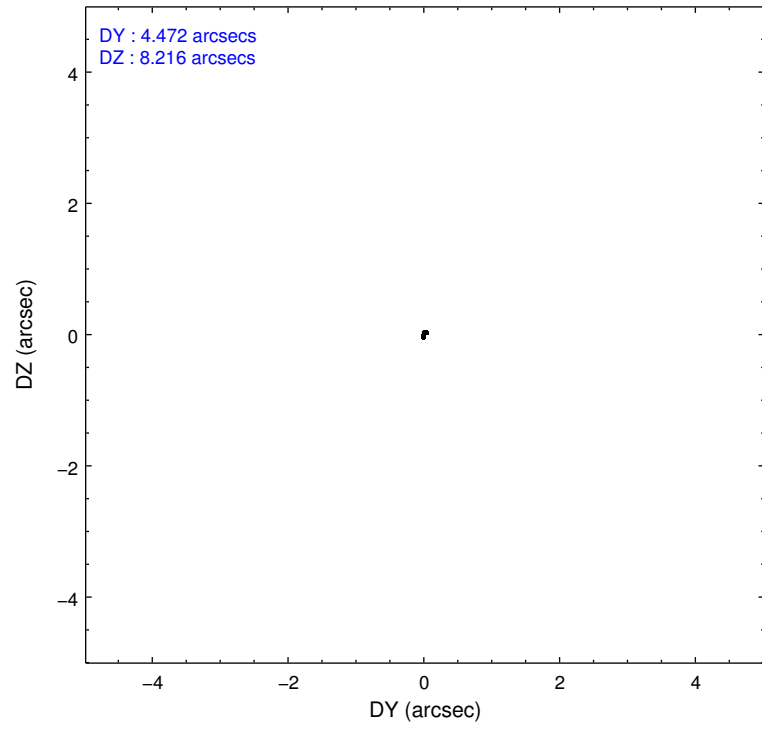
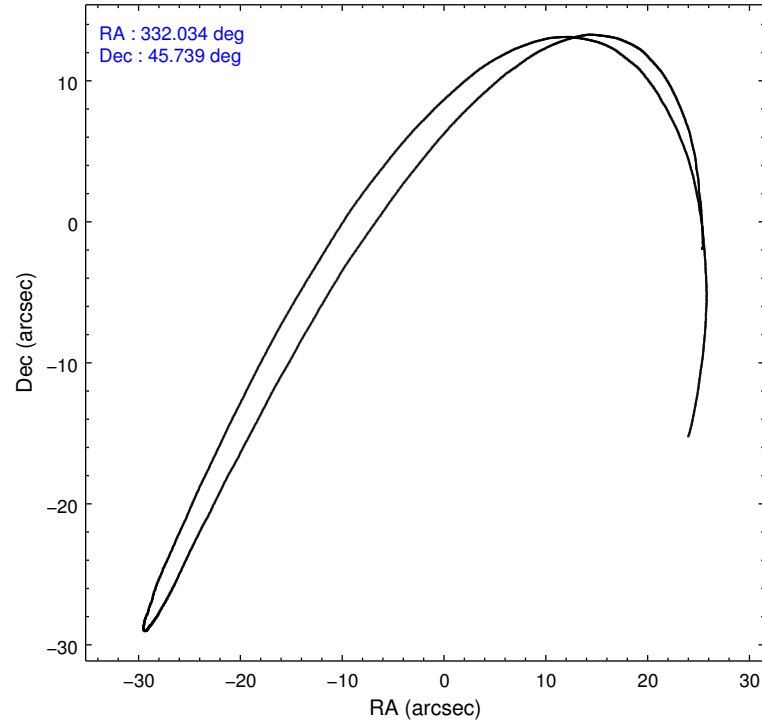
Level 1 Events

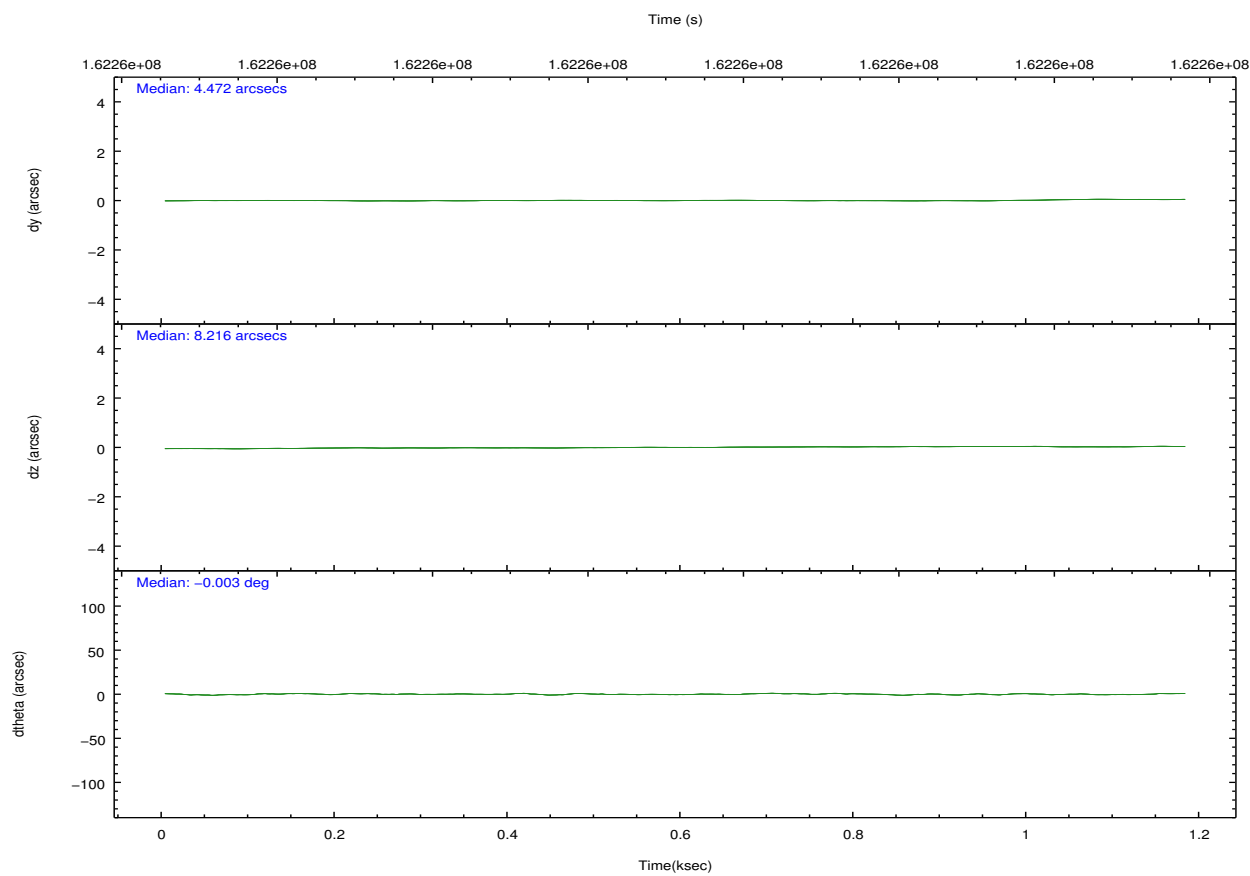
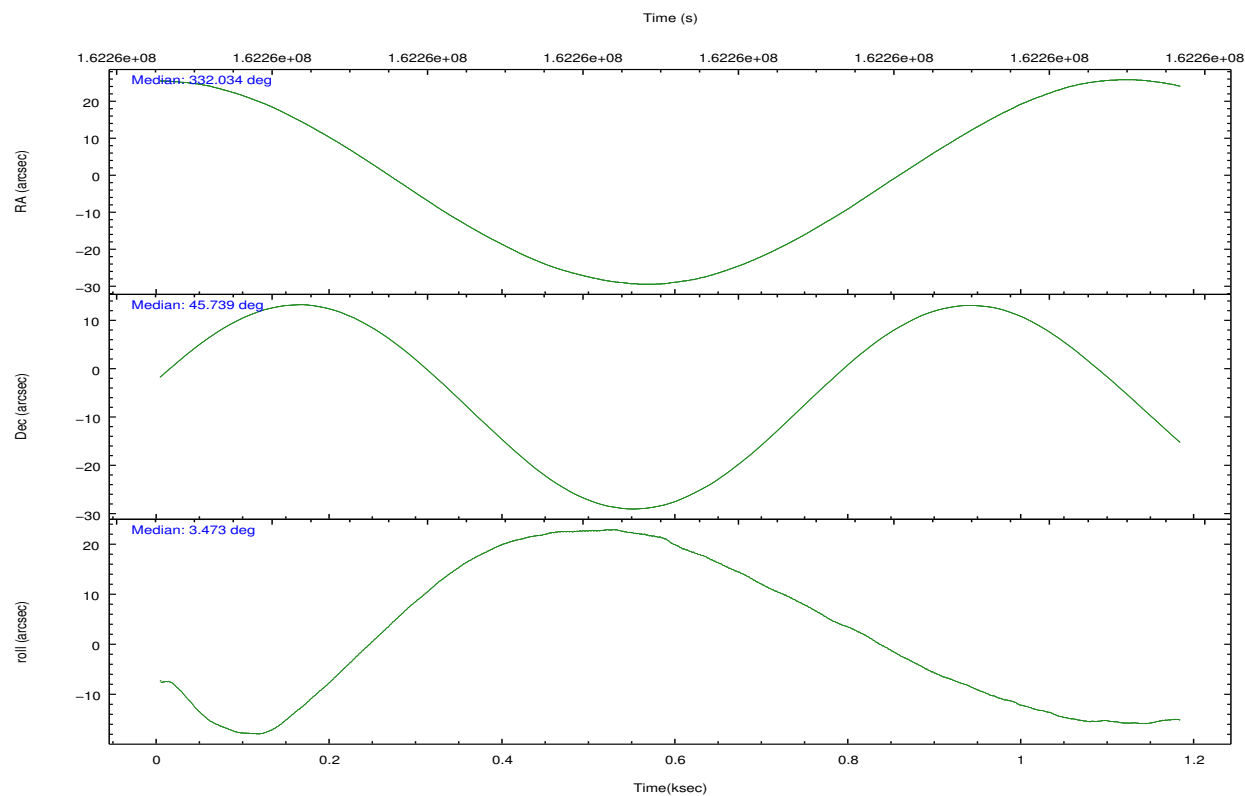
	segment 1	segment 2	segment 3
level 1 events	1126	69423	1139
rejected events	1126	15653	1139
rejected %	100%	22%	100%

## 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	332.000655	332.0341693421789			
[deg] Pointing Dec	45.719632	45.73770846590796			
[deg] Pointing Roll	3.436970	3.480320679894228			
[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)	162263305.184000	162262929.26827			
Observation start date	2003-02-22T01:07:21	2003-02-22T01:02:09			
[s] Observation end time (MET)	162264305.184000	162264439.60583			
Observation end date	2003-02-22T01:24:01	2003-02-22T01:27:19			

## 2.3 Aspect





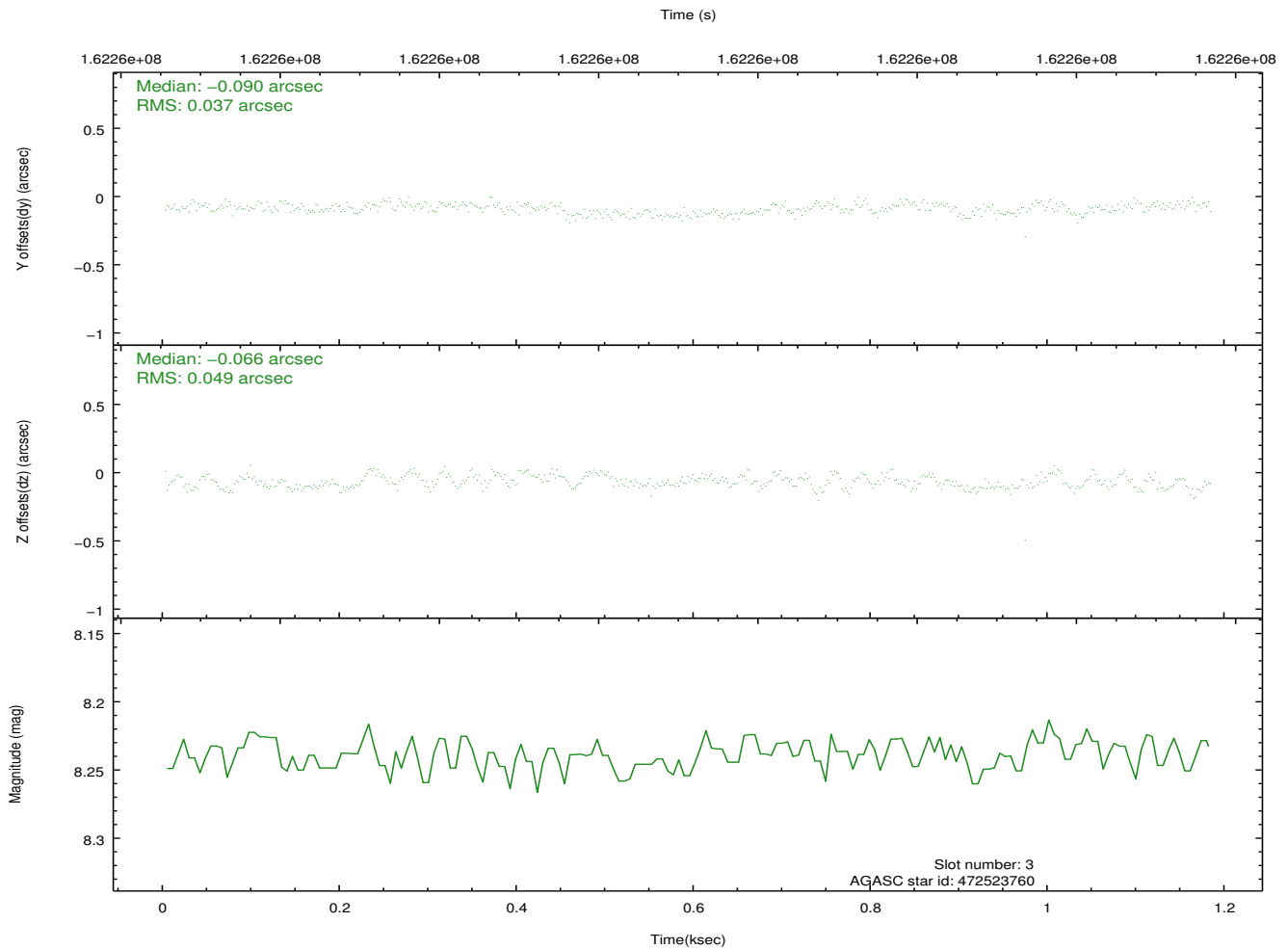
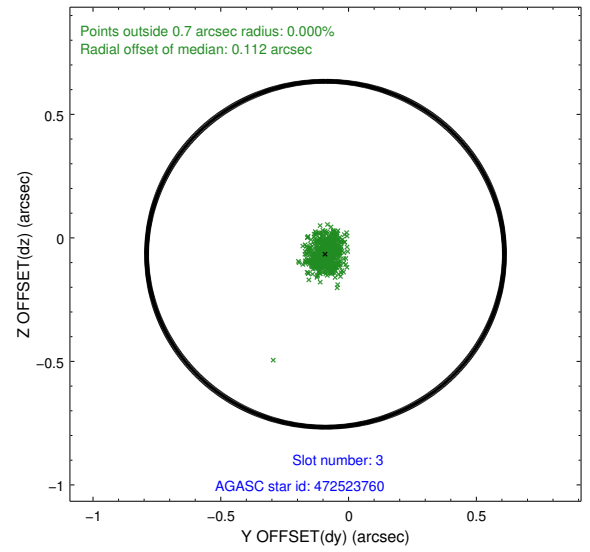
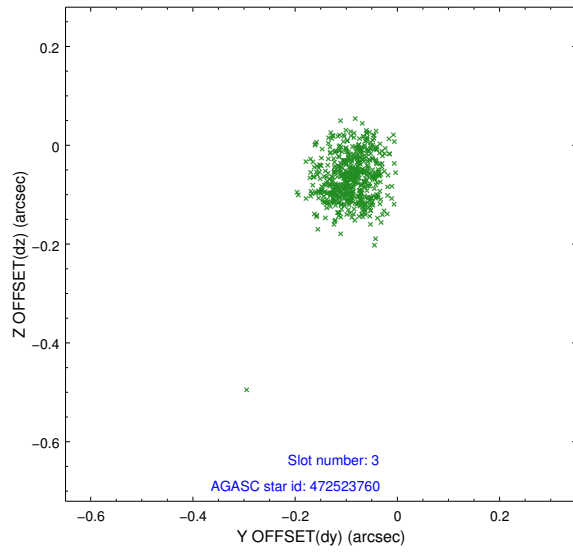
### Slot Statistics

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	288	0.153	-0.134	0.006	0.013	0.000000	0.000000	-1158.54	-456.81
1	FID	HRC-S-2	7.01	288	0.068	-0.084	0.004	0.009	0.000000	0.000000	1237.04	-450.99
2	FID	HRC-S-3	7.04	288	0.169	-0.085	0.006	0.011	0.000000	0.000000	-1156.94	571.20
3	GUIDE	472523760	8.24	577	-0.090	-0.066	0.063	0.097	331.645363	45.403260	-966.05	-1085.02
4	GUIDE	472527720	6.98	577	-0.059	-0.021	0.065	0.101	331.460205	45.112509	-1504.35	-2100.66
5	GUIDE	472655704	9.47	577	0.035	0.038	0.110	0.178	332.167195	45.285228	323.51	-1593.20
6	GUIDE	472659832	9.47	577	0.066	0.102	0.103	0.169	332.780399	46.098139	2024.27	1246.85
7	GUIDE	472533912	9.18	576	0.046	-0.048	0.109	0.164	331.791136	46.368695	-377.60	2362.62

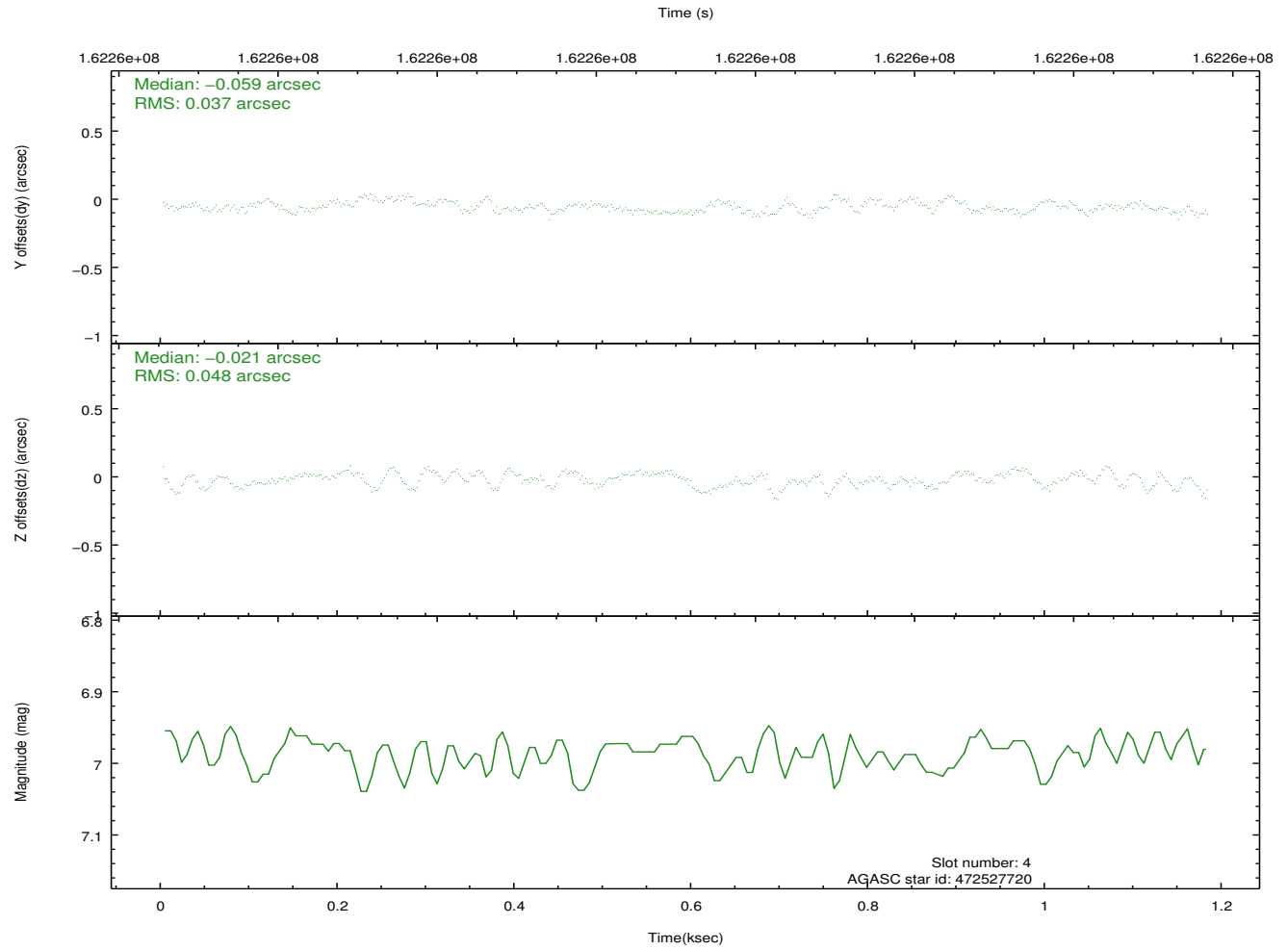
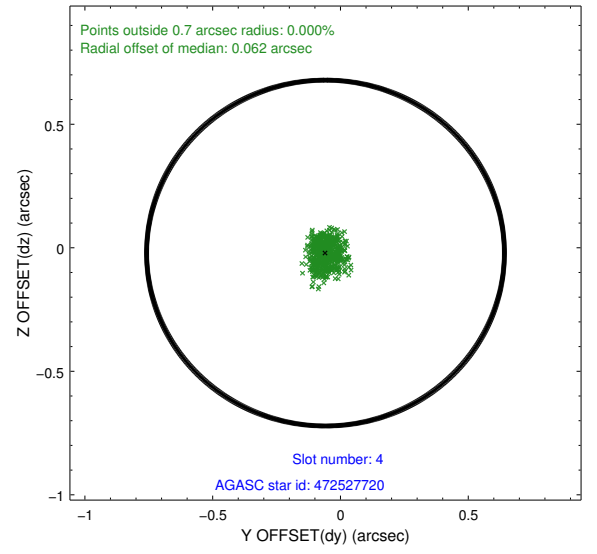
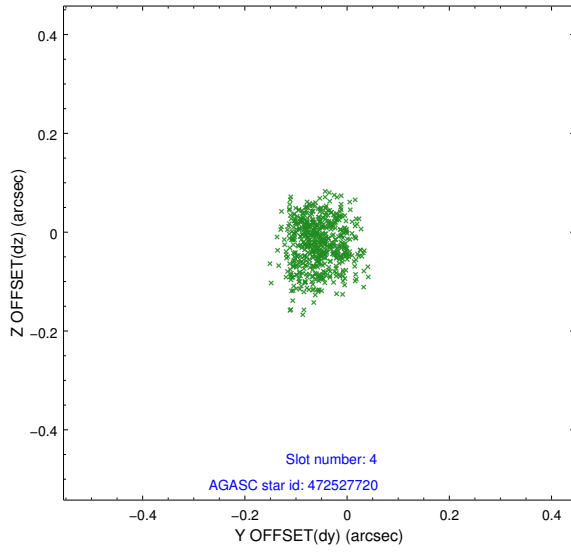


## 2.4 Star Slots

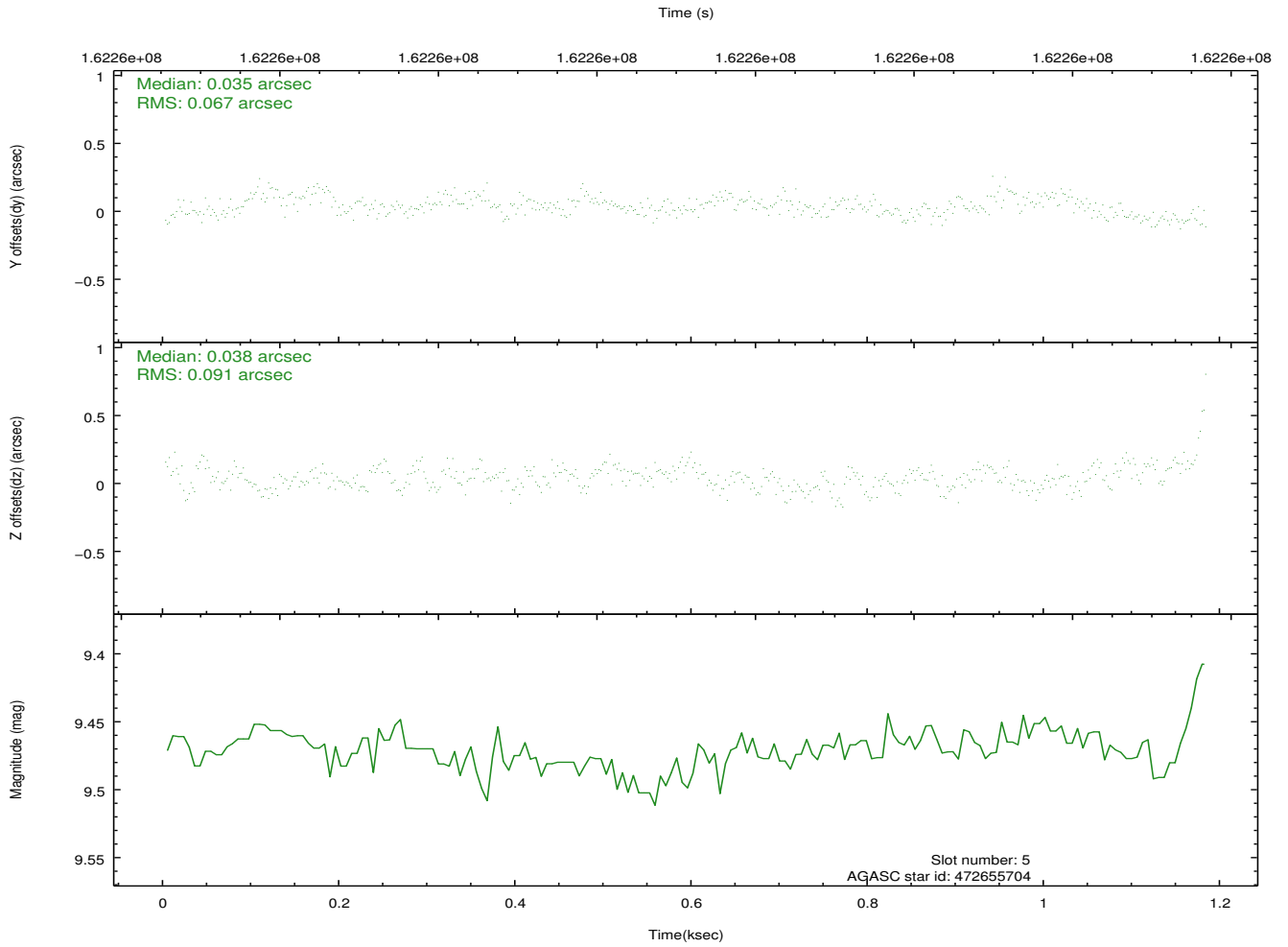
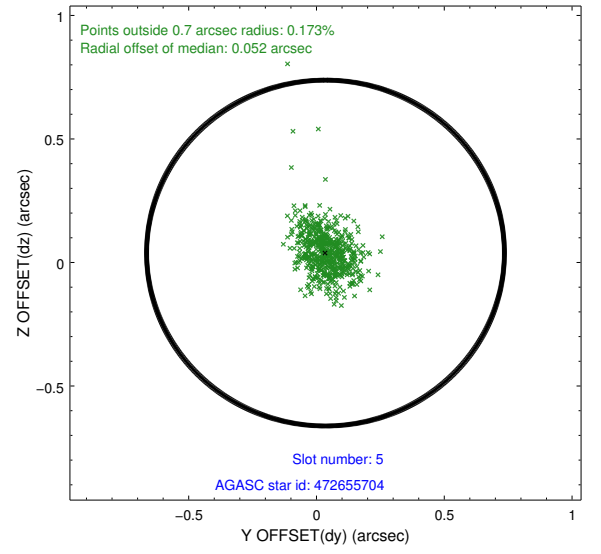
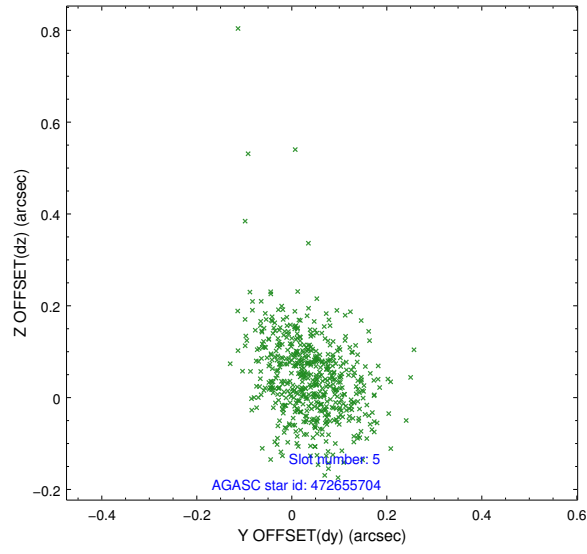
### 2.4.1 Slot 3



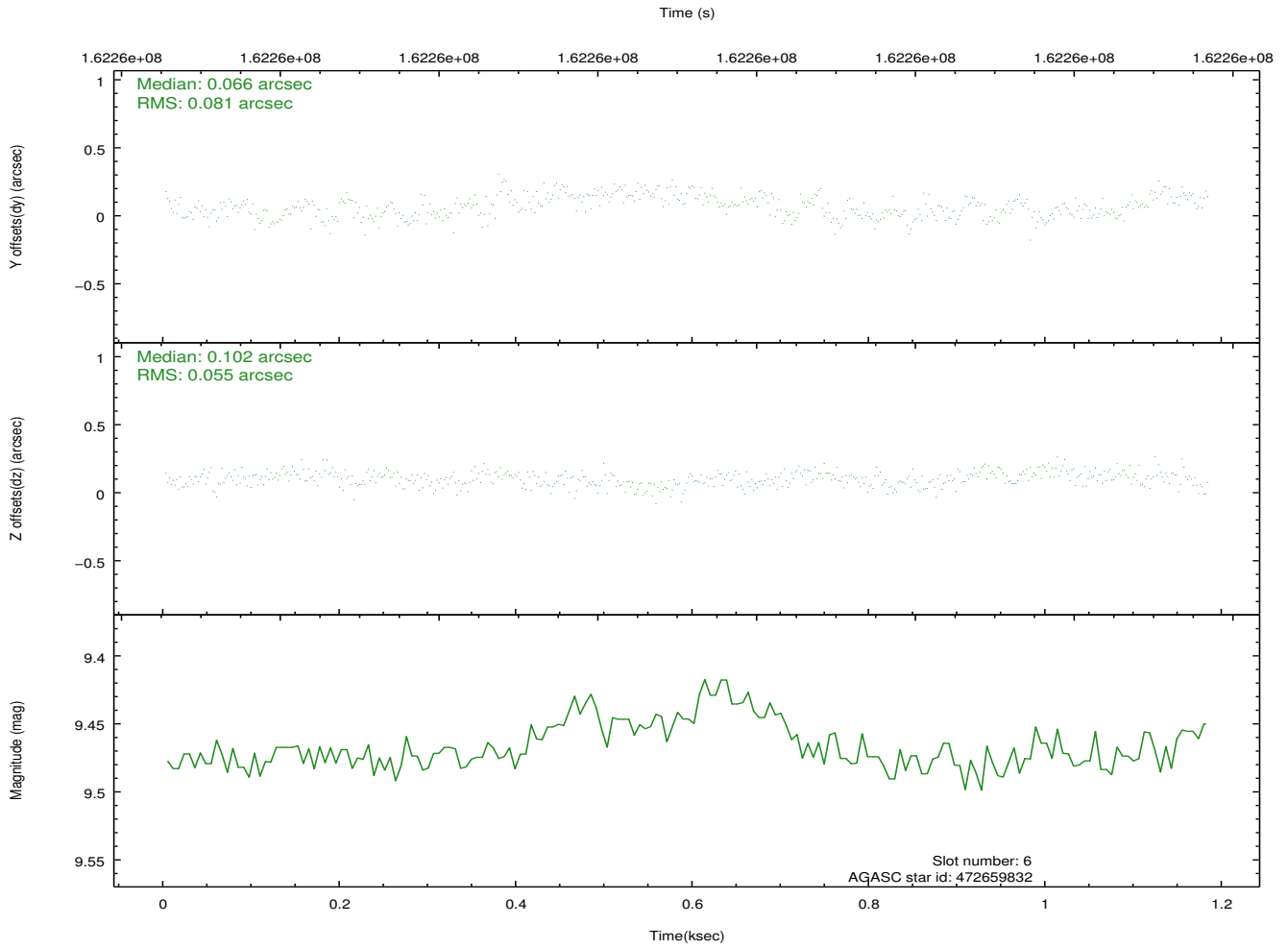
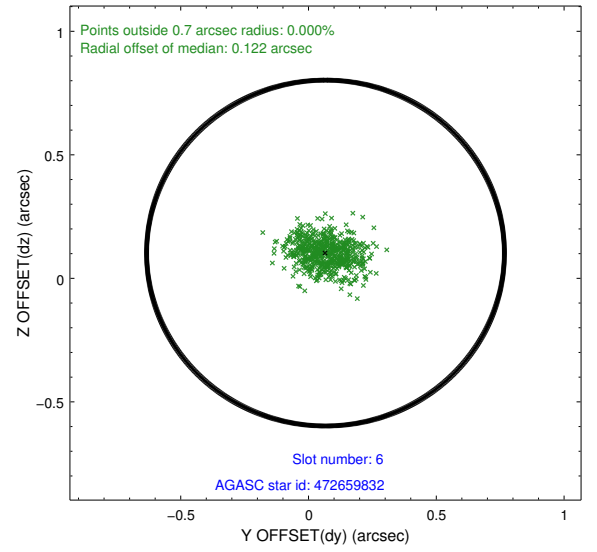
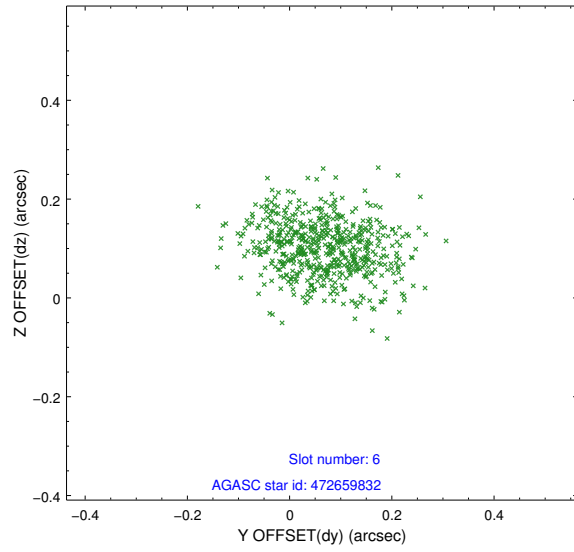
## 2.4.2 Slot 4



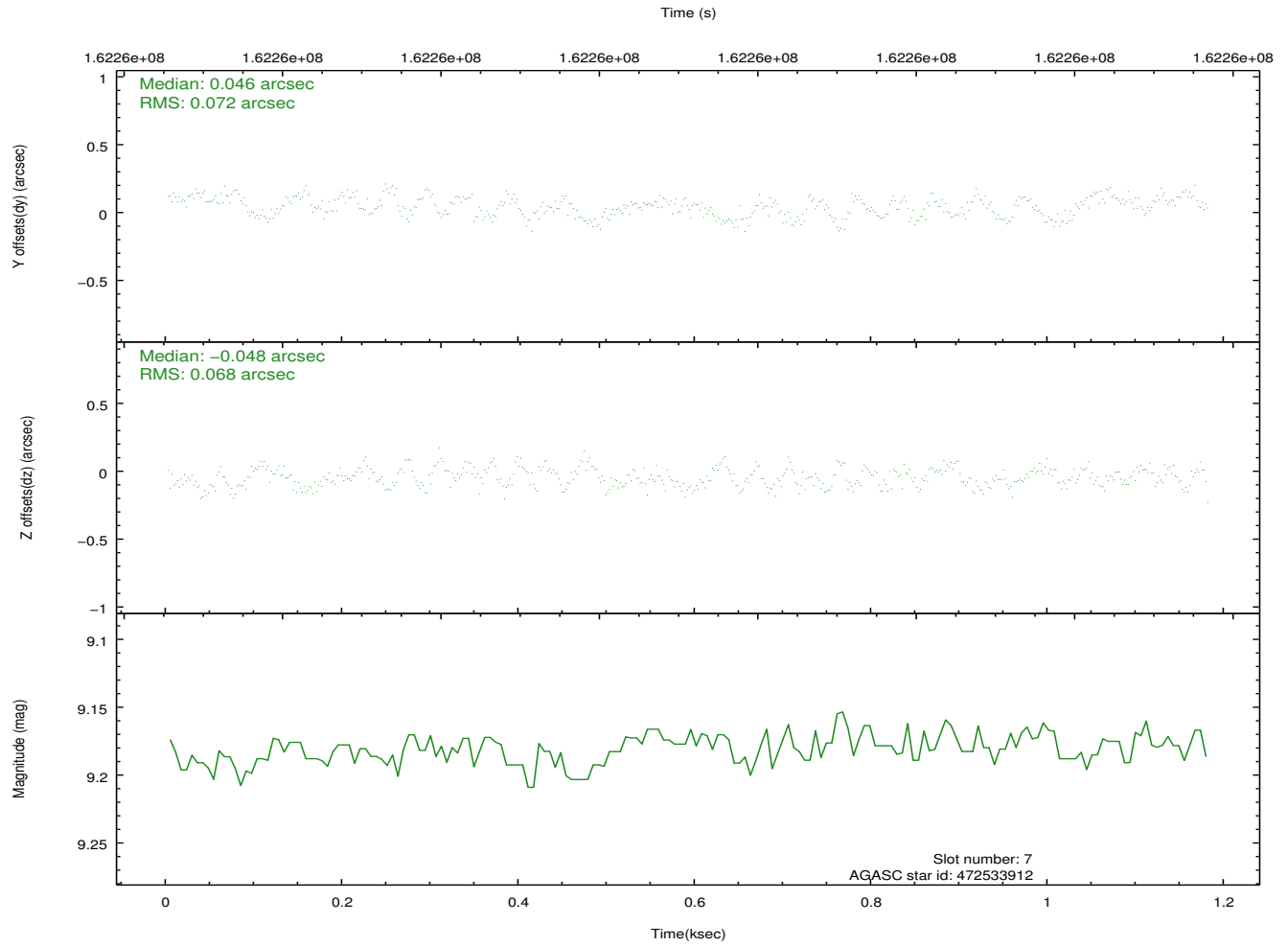
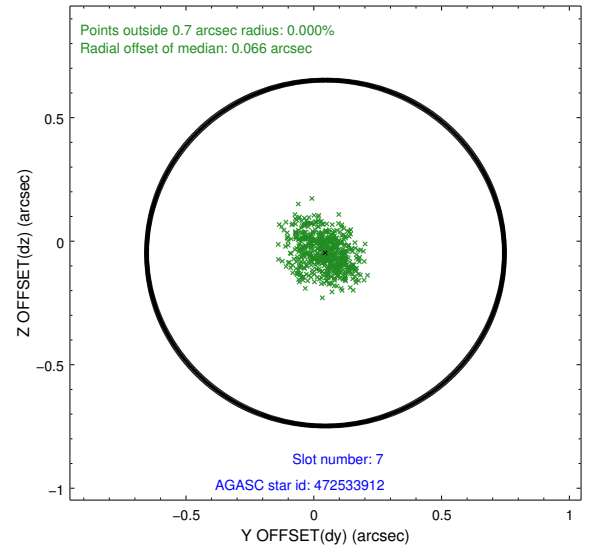
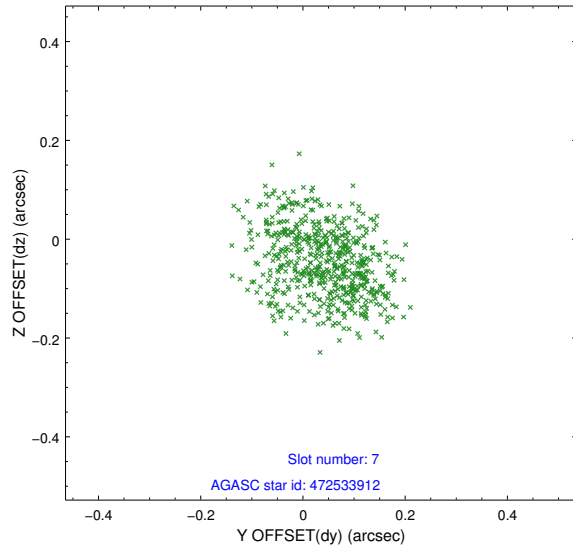
### 2.4.3 Slot 5



## 2.4.4 Slot 6

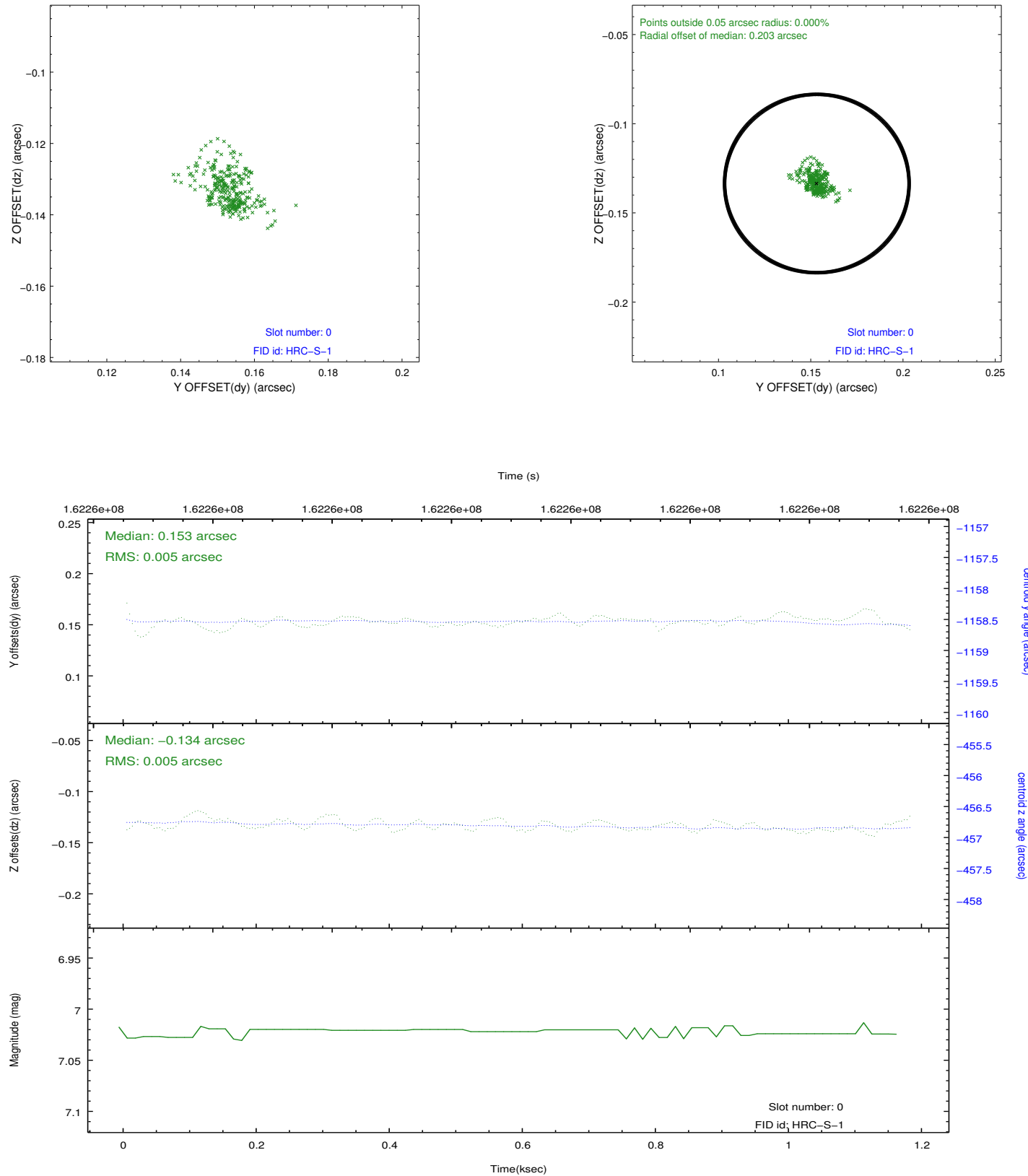


## 2.4.5 Slot 7

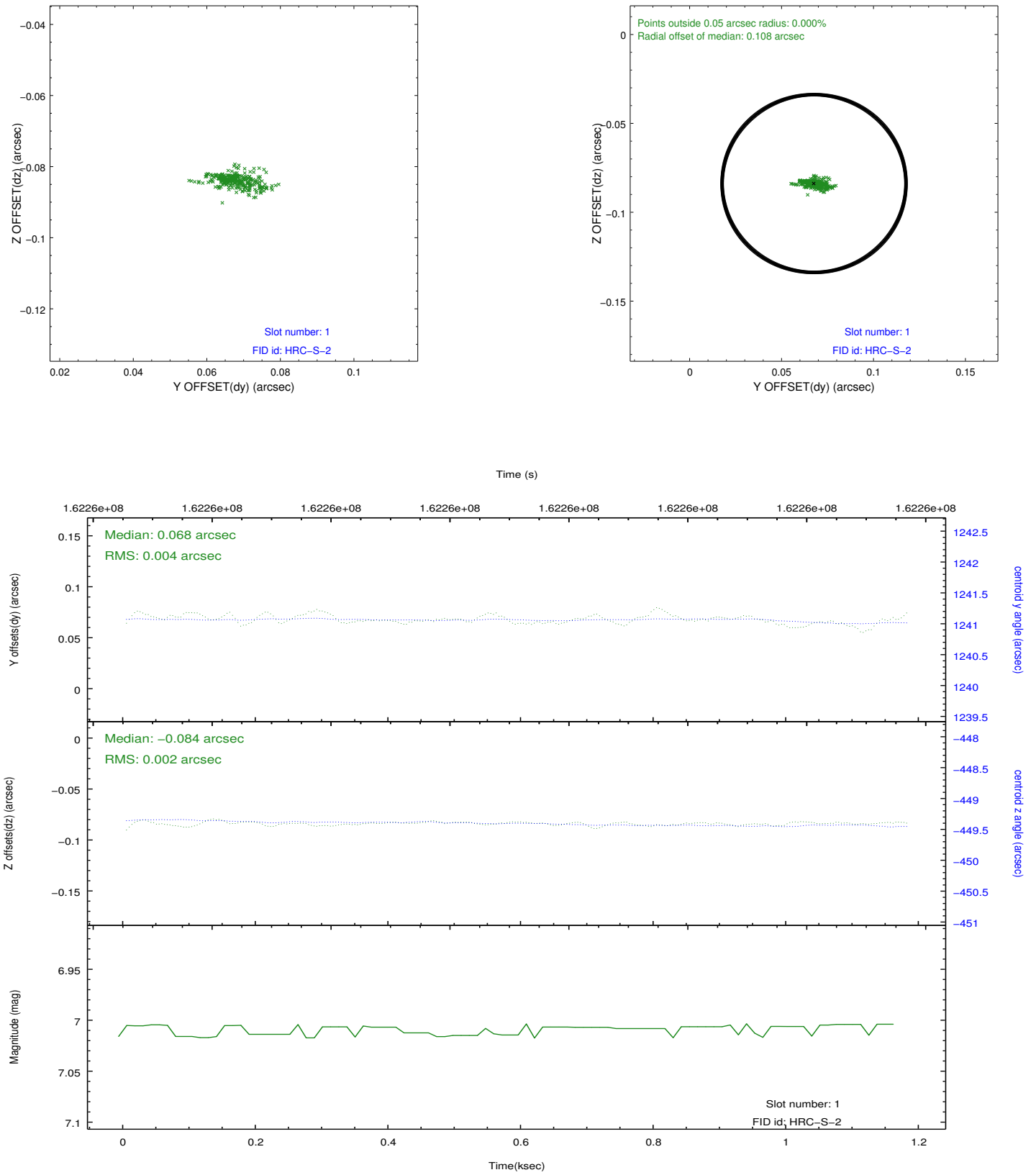


## 2.5 FID Slots

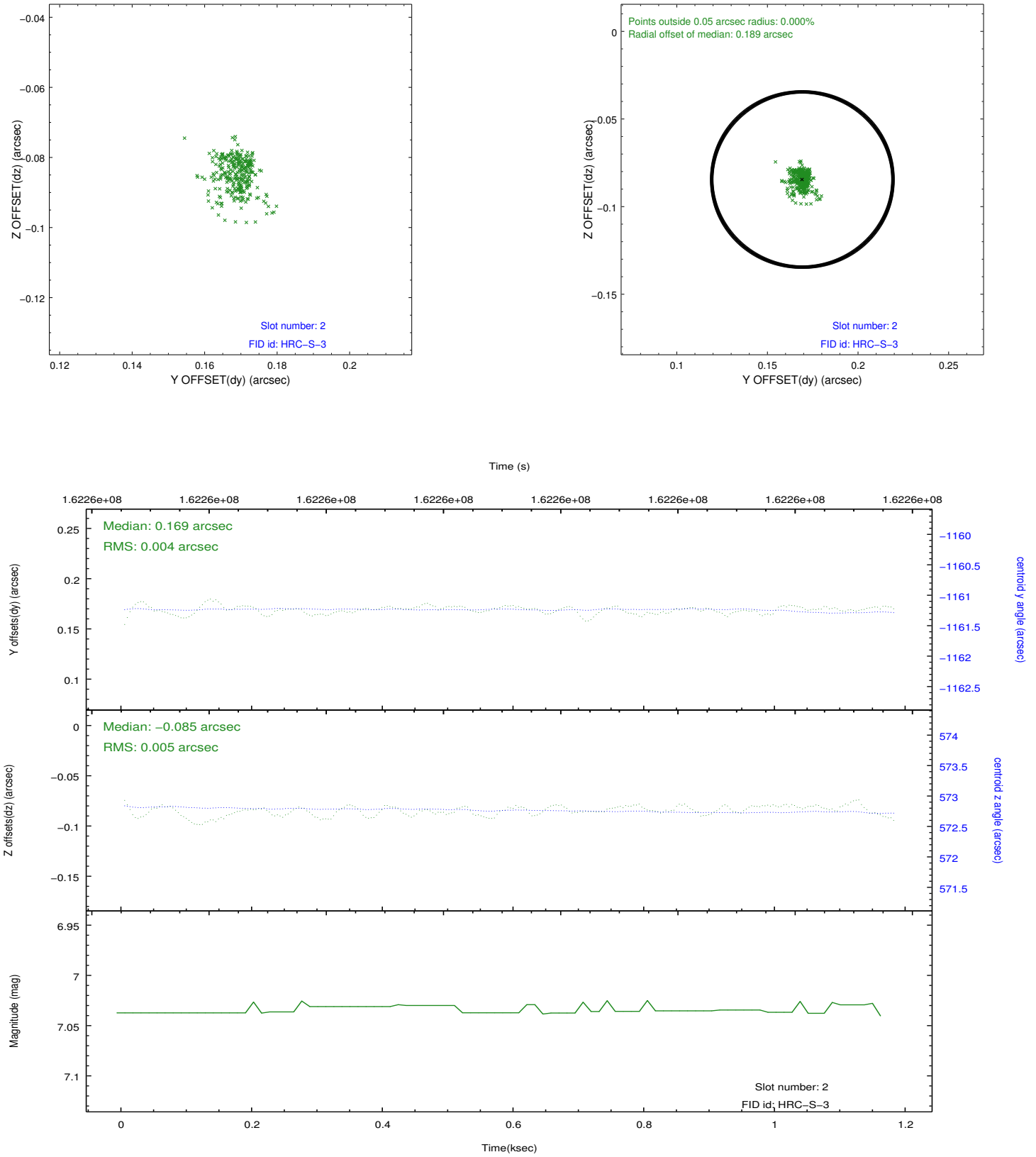
### 2.5.1 Slot 0



## 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**