

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 5085 - L2 Version 3  
Chandra X-Ray Center

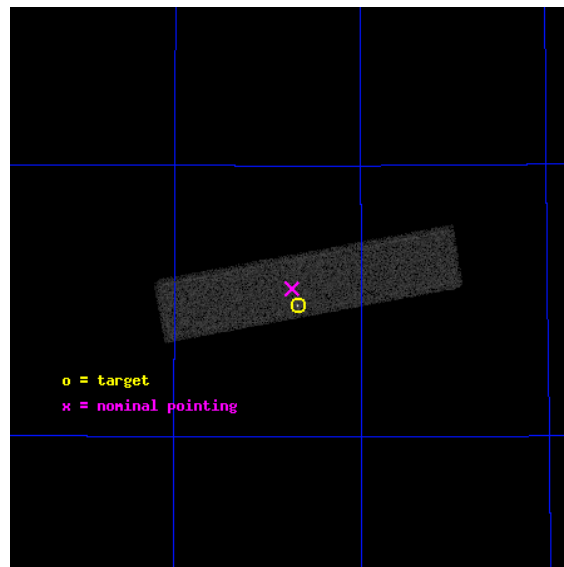
L2 Processing Date : Nov 11 2012

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# 1 Front

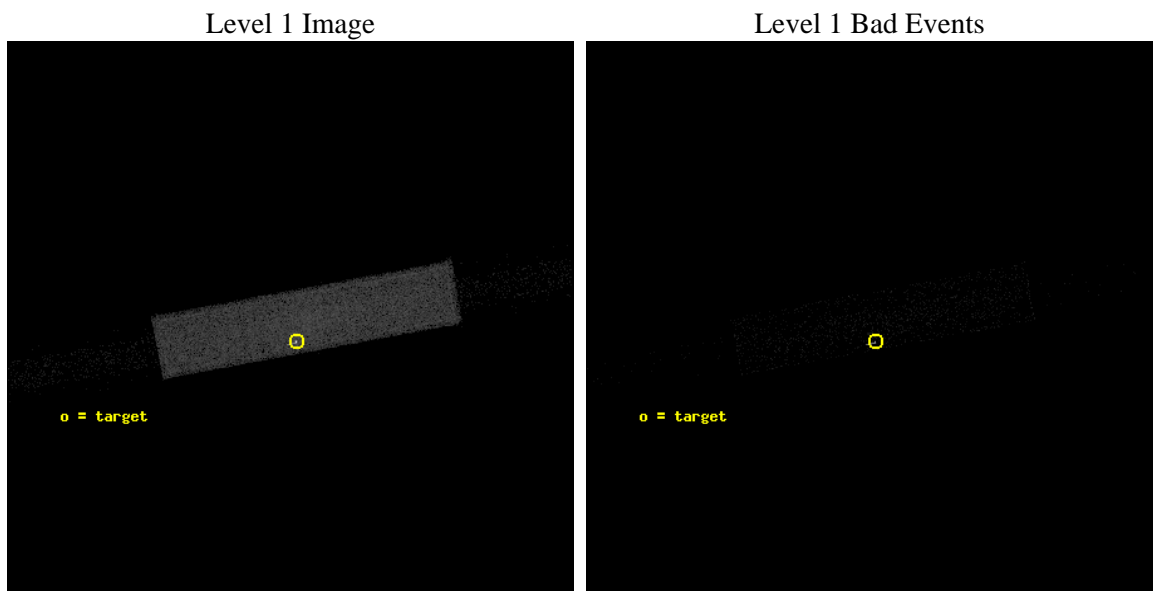
seq_num	290358	Sequence number
obs_id	5085	Observation id
title	AO5A Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.18536179601	Nominal RA [deg]
dec_nom	45.773022671578	Nominal Dec [deg]
roll_nom	349.47032488179	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1087.7812975943	[s]
livetime	1082.1568661466	Ontime multiplied by DTCOR
l2events	39380	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	946.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1087.7812975943	[s]
caldbver	4.5.2	&#160	l1events	66323	Number of level 1 events
date	2012-11-11T14:36:48	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

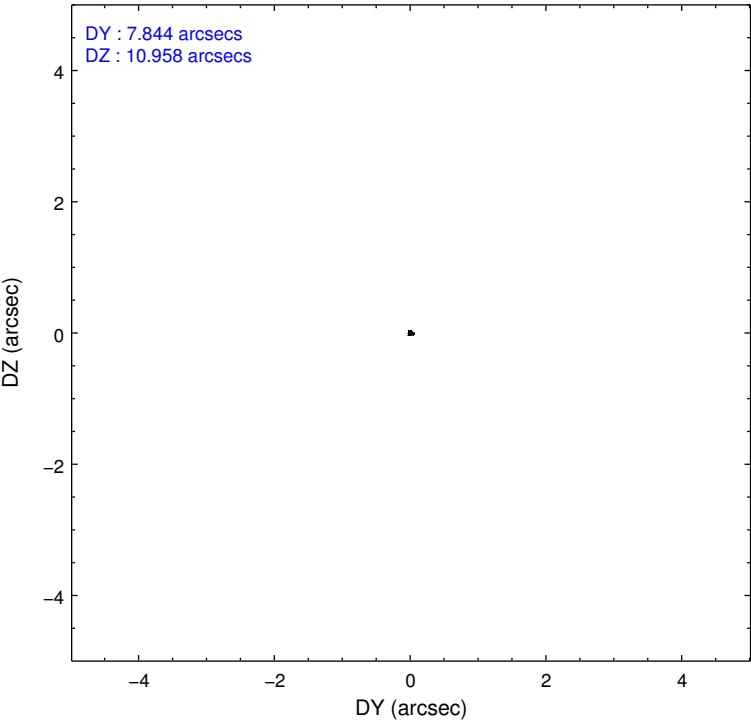
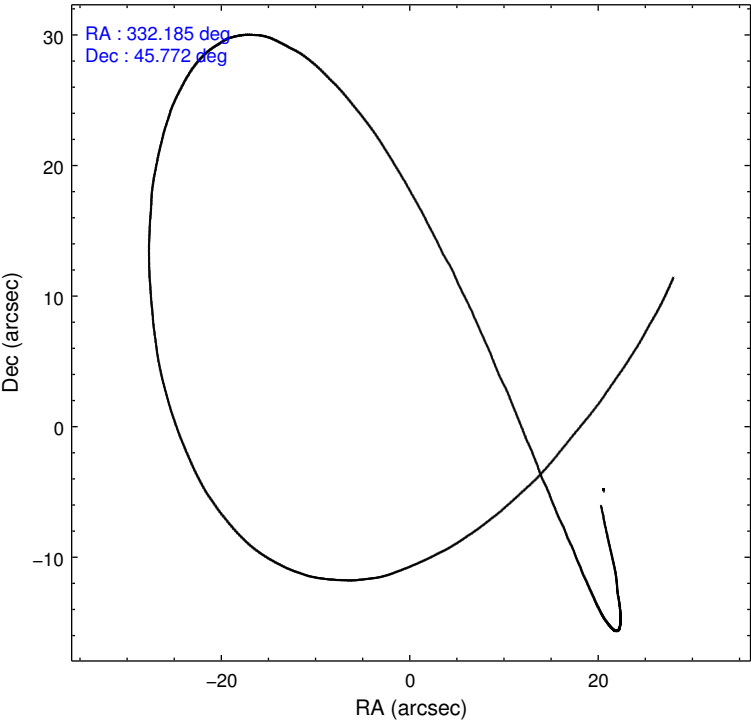
Level 1 Events

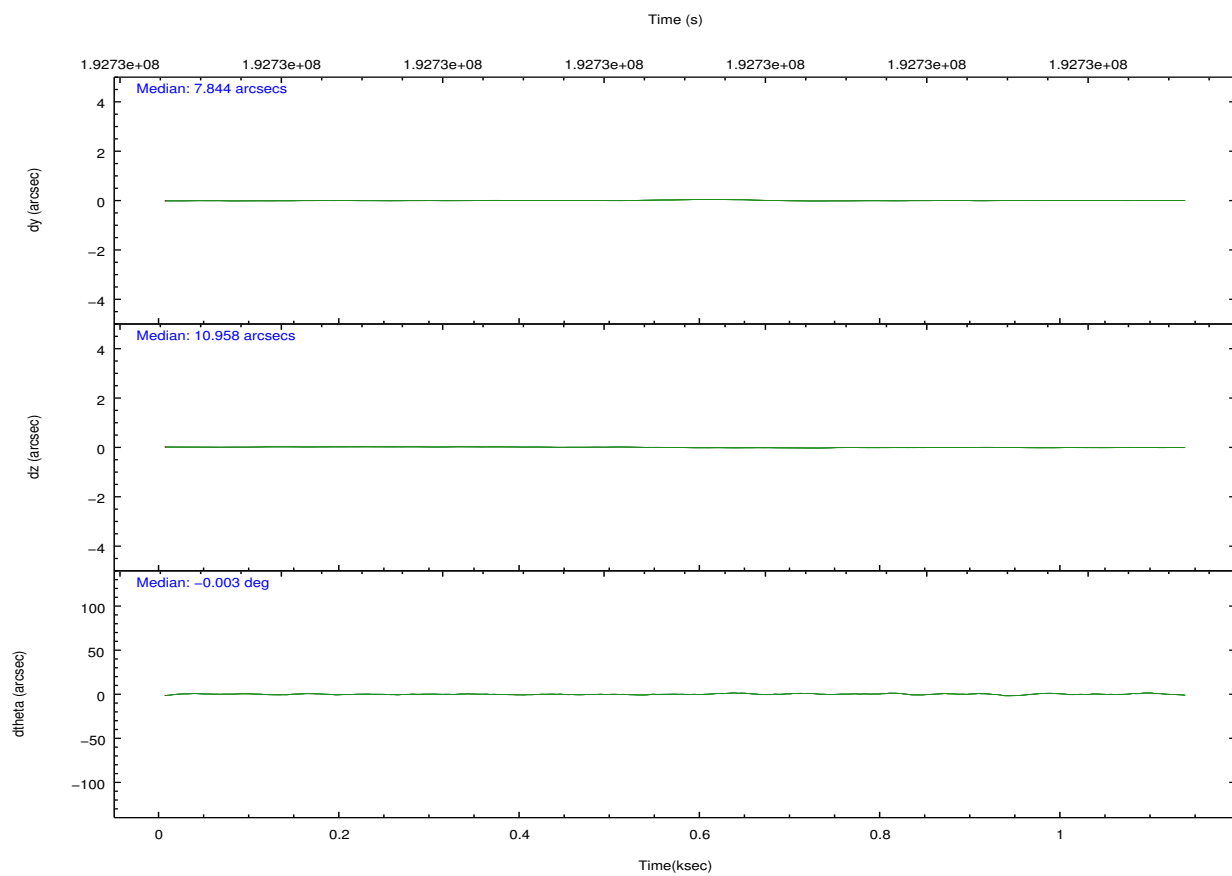
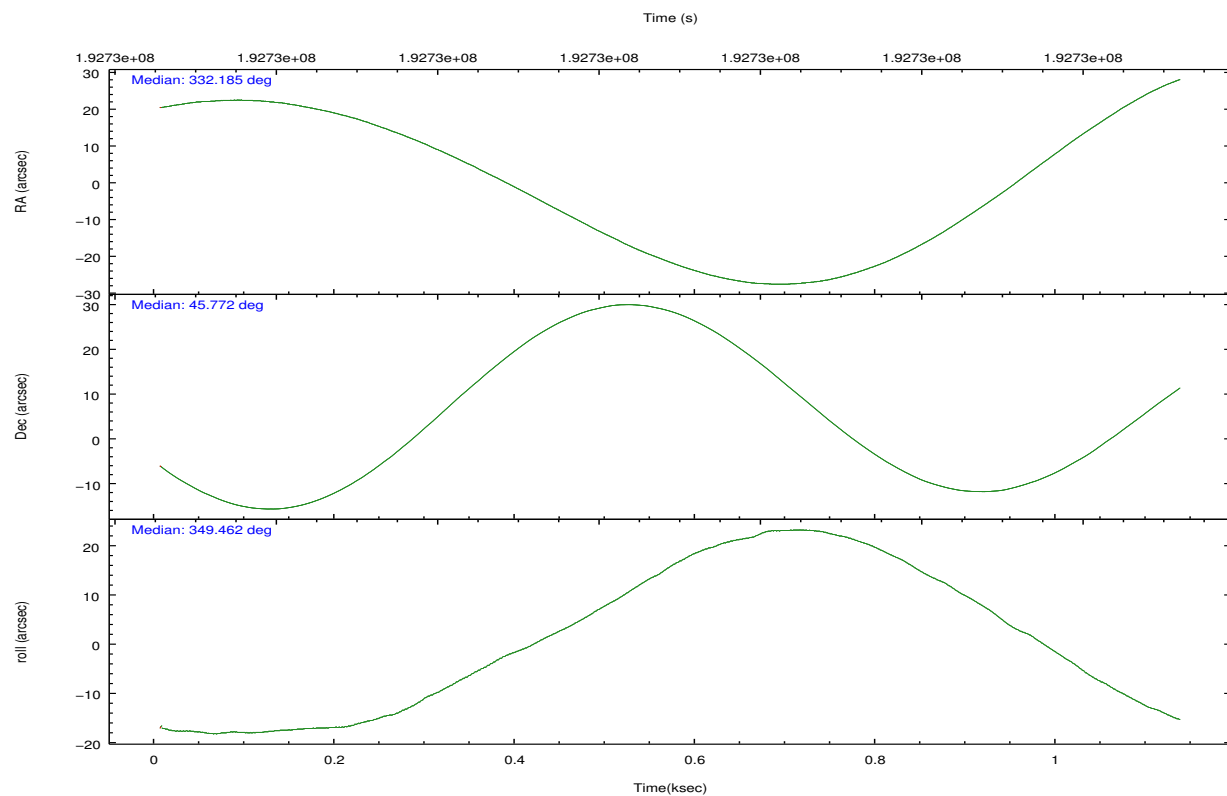
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1091	64111	1121
rejected events	1091	15284	1121
rejected %	100%	23%	100%

## 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	332.147408	332.1853617960051			
[deg] Pointing Dec	45.763215	45.77302267157789			
[deg] Pointing Roll	349.430275	349.47032488179			
[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)	192725713.184000	192725337.09726			
Observation start date	2004-02-09T14:54:09	2004-02-09T14:48:57			
[s] Observation end time (MET)	192726659.184000	192726792.59732			
Observation end date	2004-02-09T15:09:55	2004-02-09T15:13:12			

### 2.3 Aspect





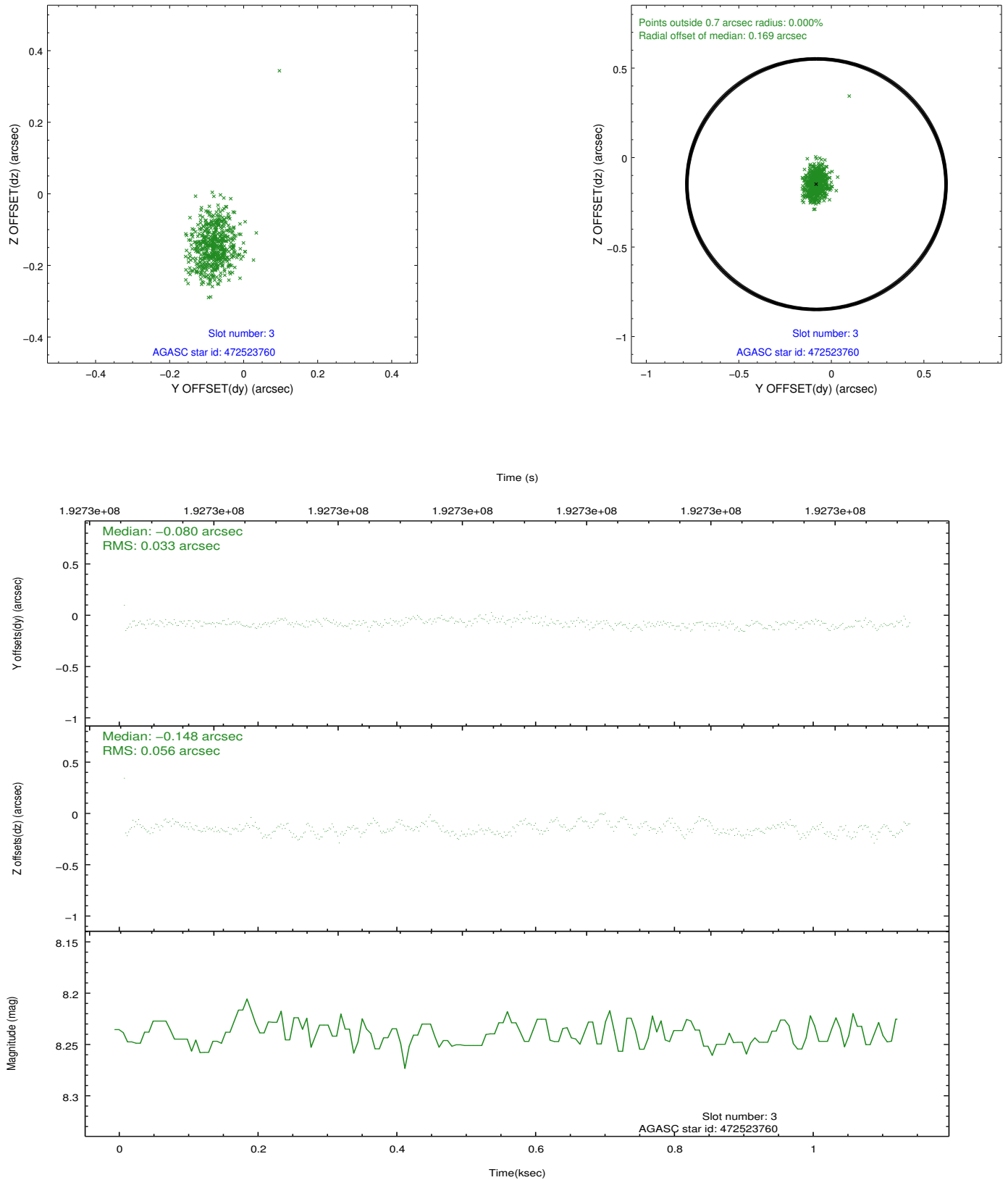
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.04	277	0.147	-0.169	0.007	0.012	0.000000	0.000000	-1162.00	-459.67
1	FID	HRC-S-2	7.03	277	0.132	-0.108	0.005	0.009	0.000000	0.000000	1233.47	-453.94
2	FID	HRC-S-3	7.04	277	0.112	-0.024	0.007	0.013	0.000000	0.000000	-1160.29	568.37
3	GUIDE	472523760	8.24	553	-0.080	-0.148	0.066	0.105	331.645363	45.403260	-1010.85	-1499.14
4	GUIDE	472533912	9.17	553	-0.036	0.045	0.094	0.157	331.791136	46.368695	-1272.86	1983.44
5	GUIDE	472655152	9.42	553	0.137	0.010	0.096	0.165	332.504239	45.862991	810.45	526.76
6	GUIDE	472659832	9.45	553	-0.001	0.091	0.094	0.169	332.780399	46.098139	1331.81	1486.46
7	GUIDE	472654568	9.43	552	-0.033	-0.004	0.102	0.159	332.194449	45.063576	581.93	-2447.28

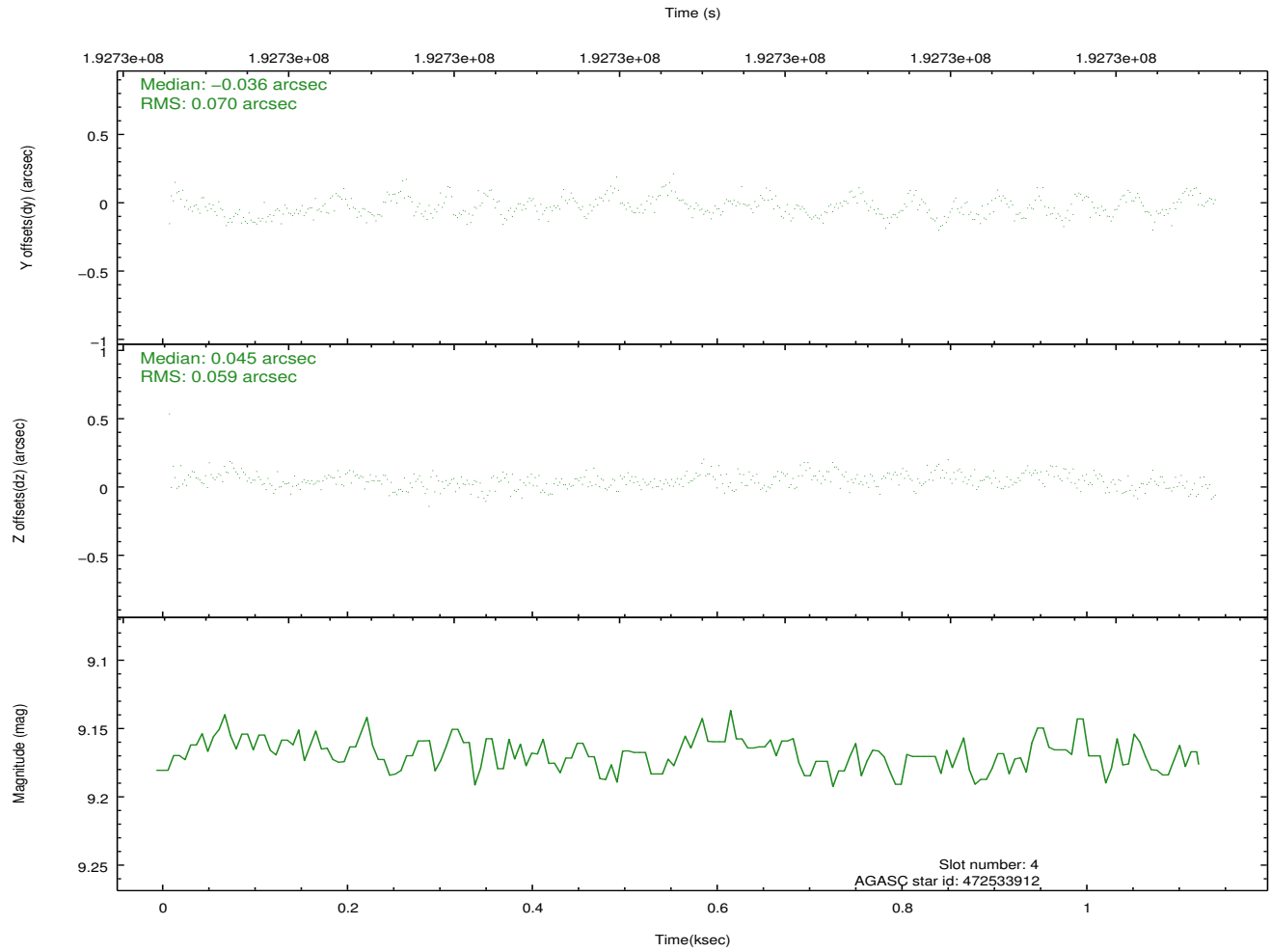
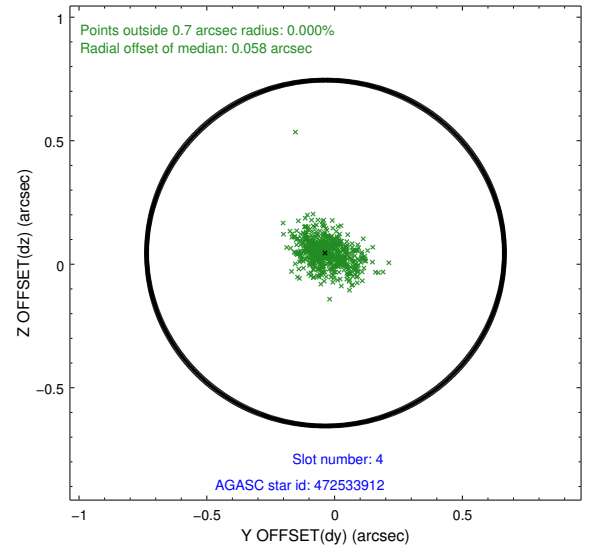
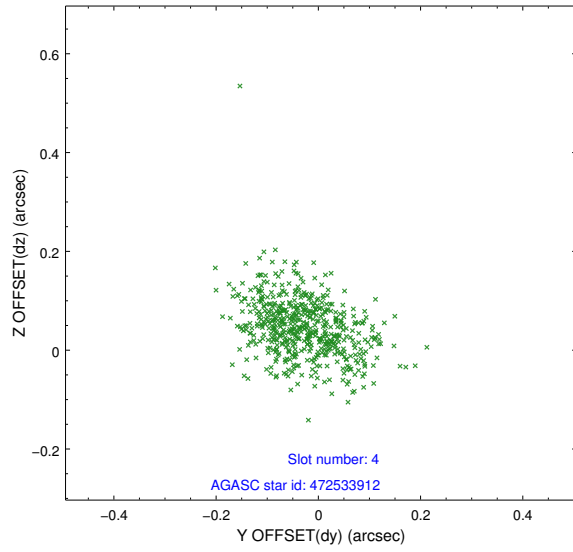


## 2.4 Star Slots

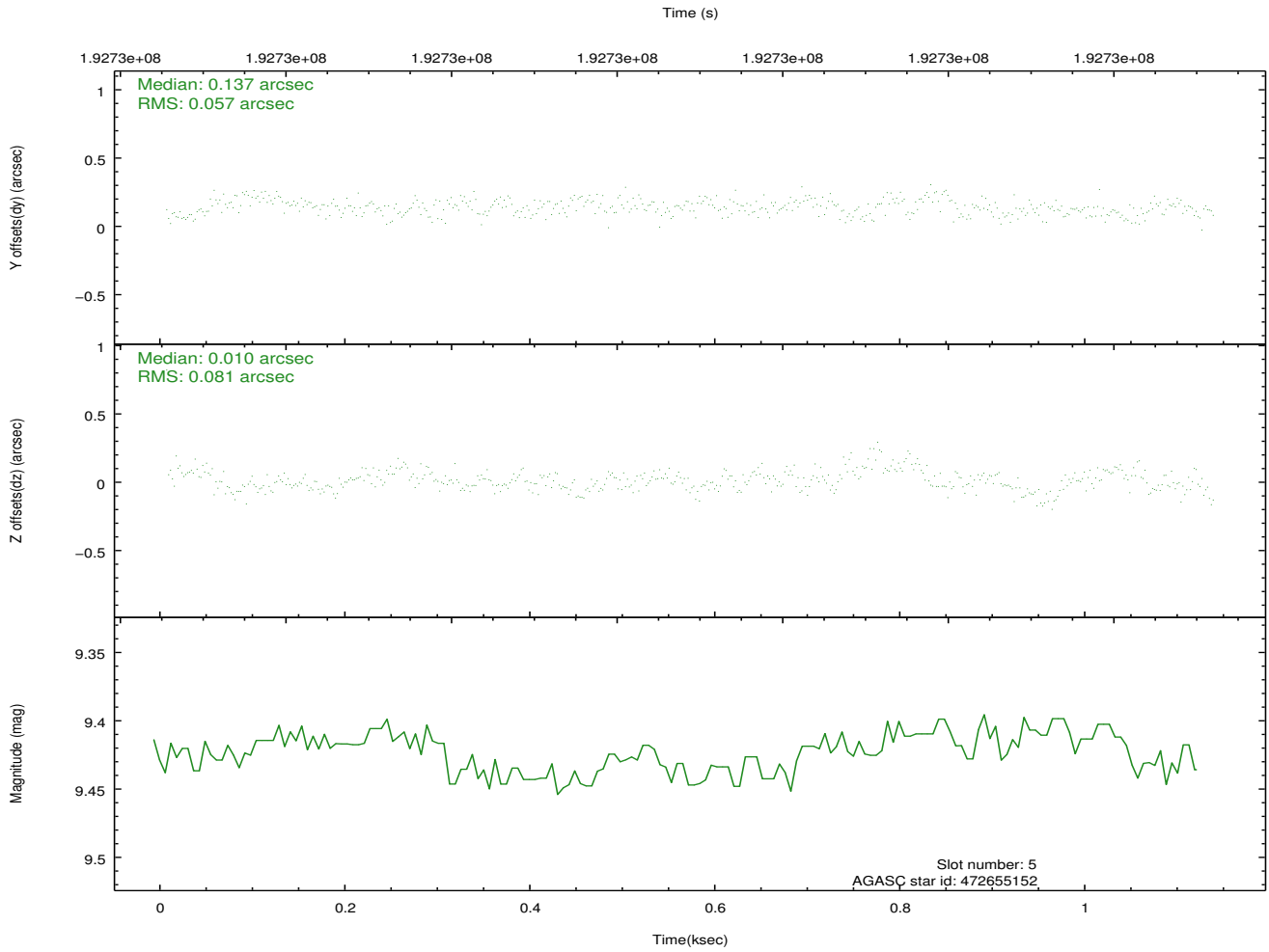
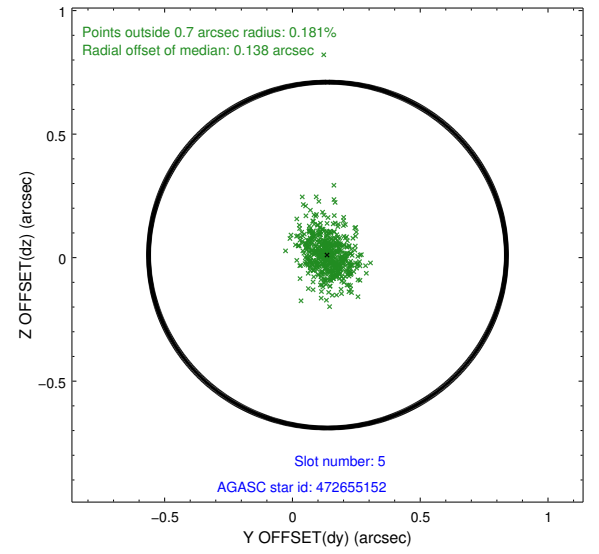
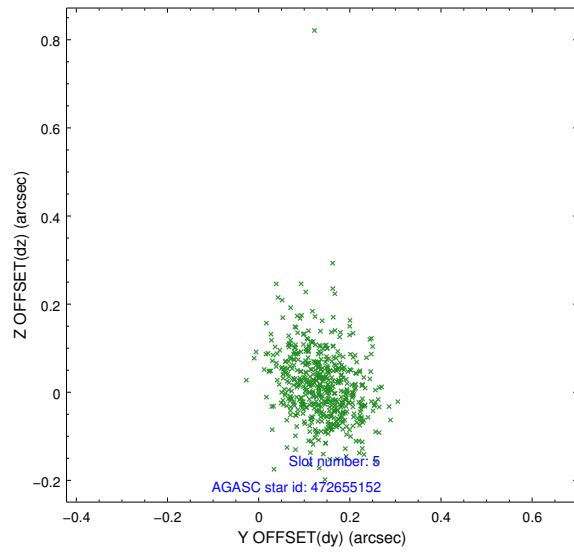
### 2.4.1 Slot 3



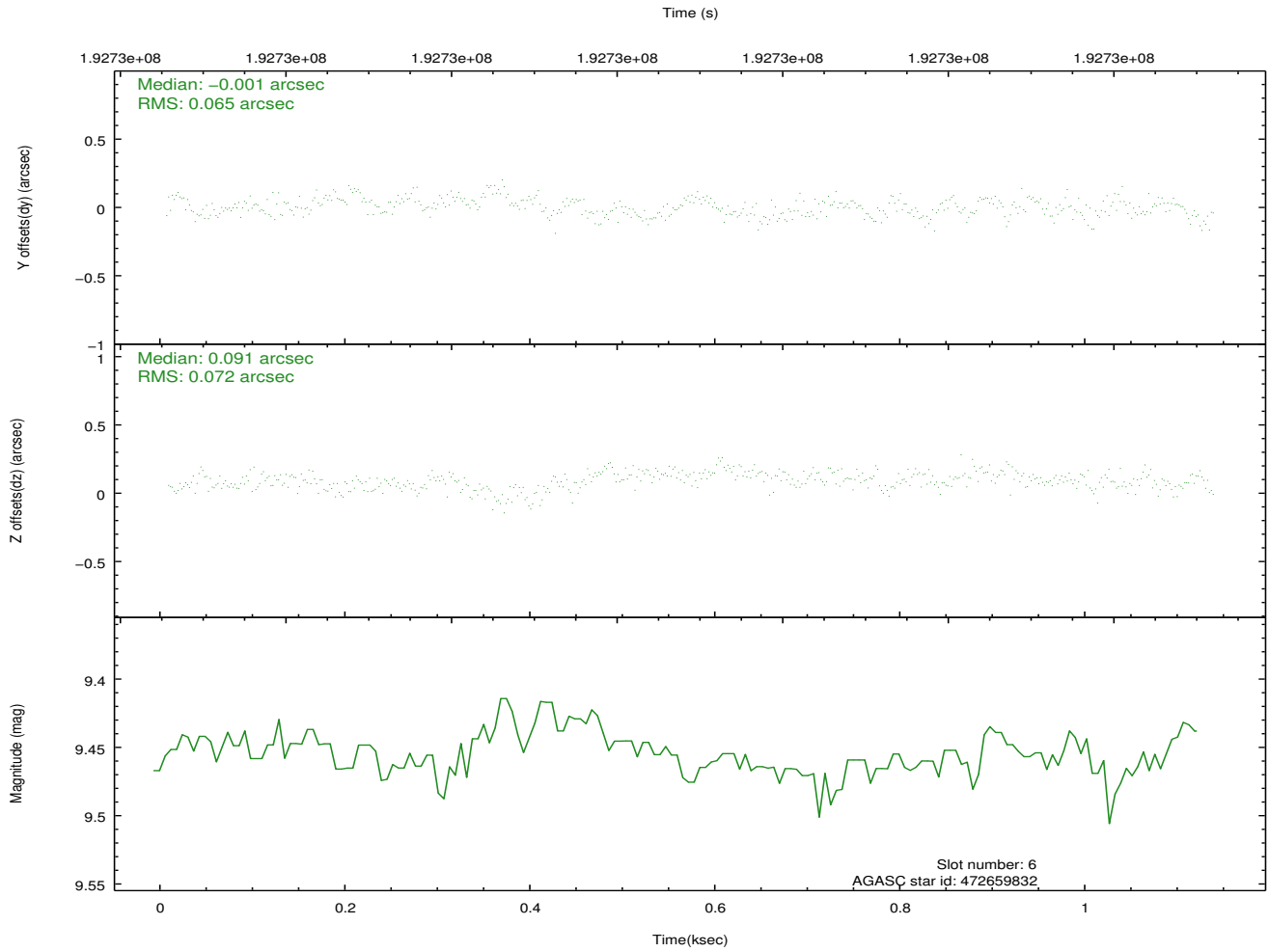
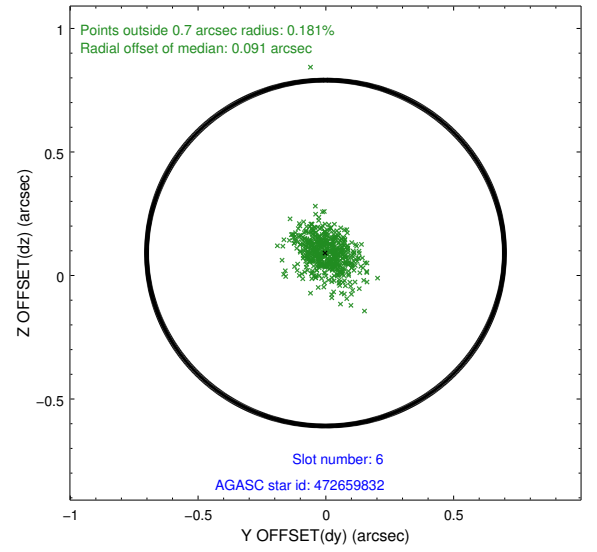
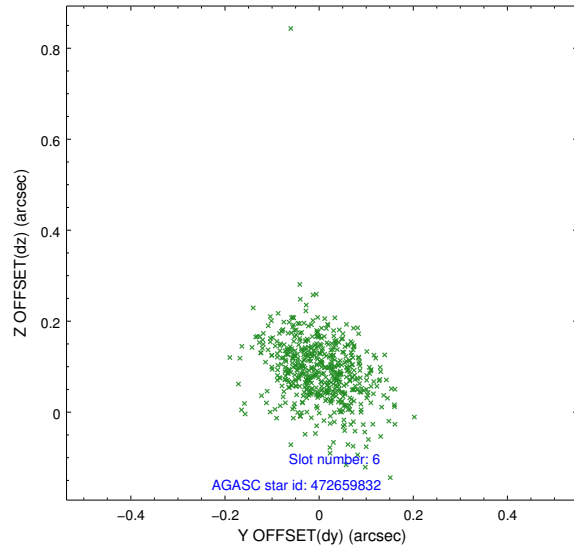
## 2.4.2 Slot 4



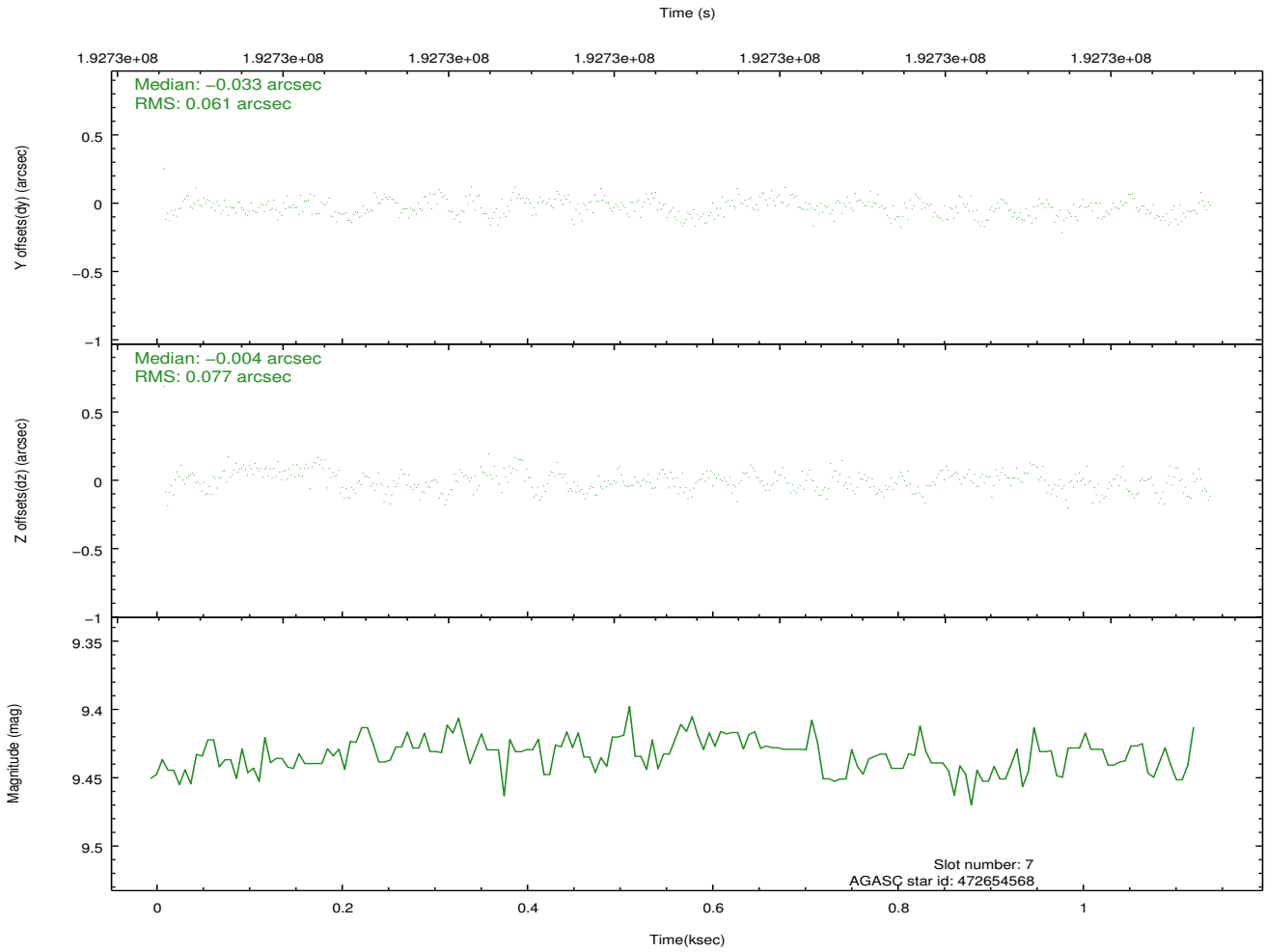
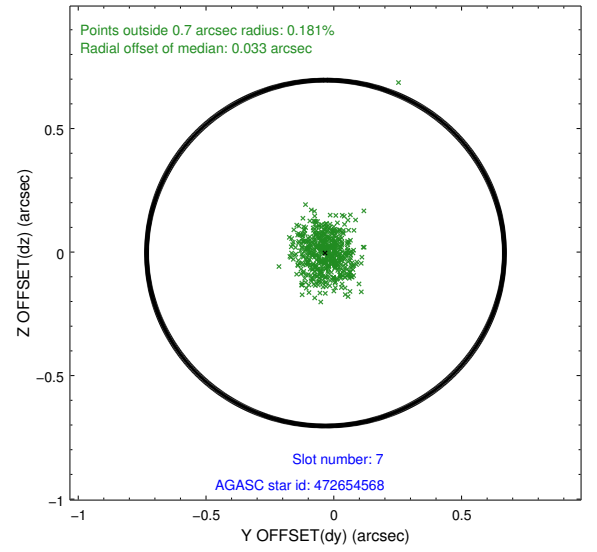
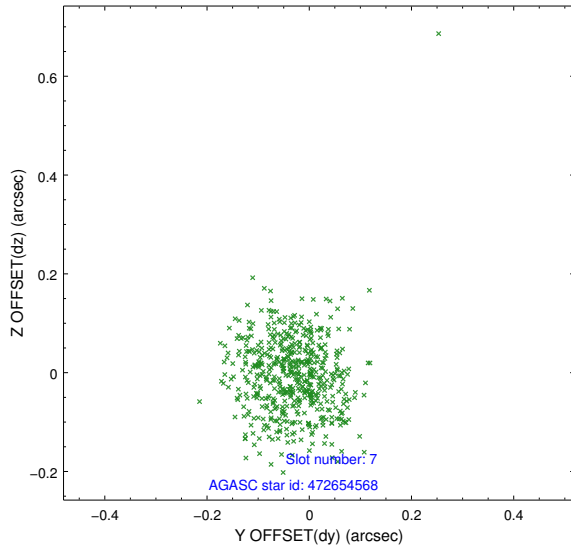
### 2.4.3 Slot 5



## 2.4.4 Slot 6

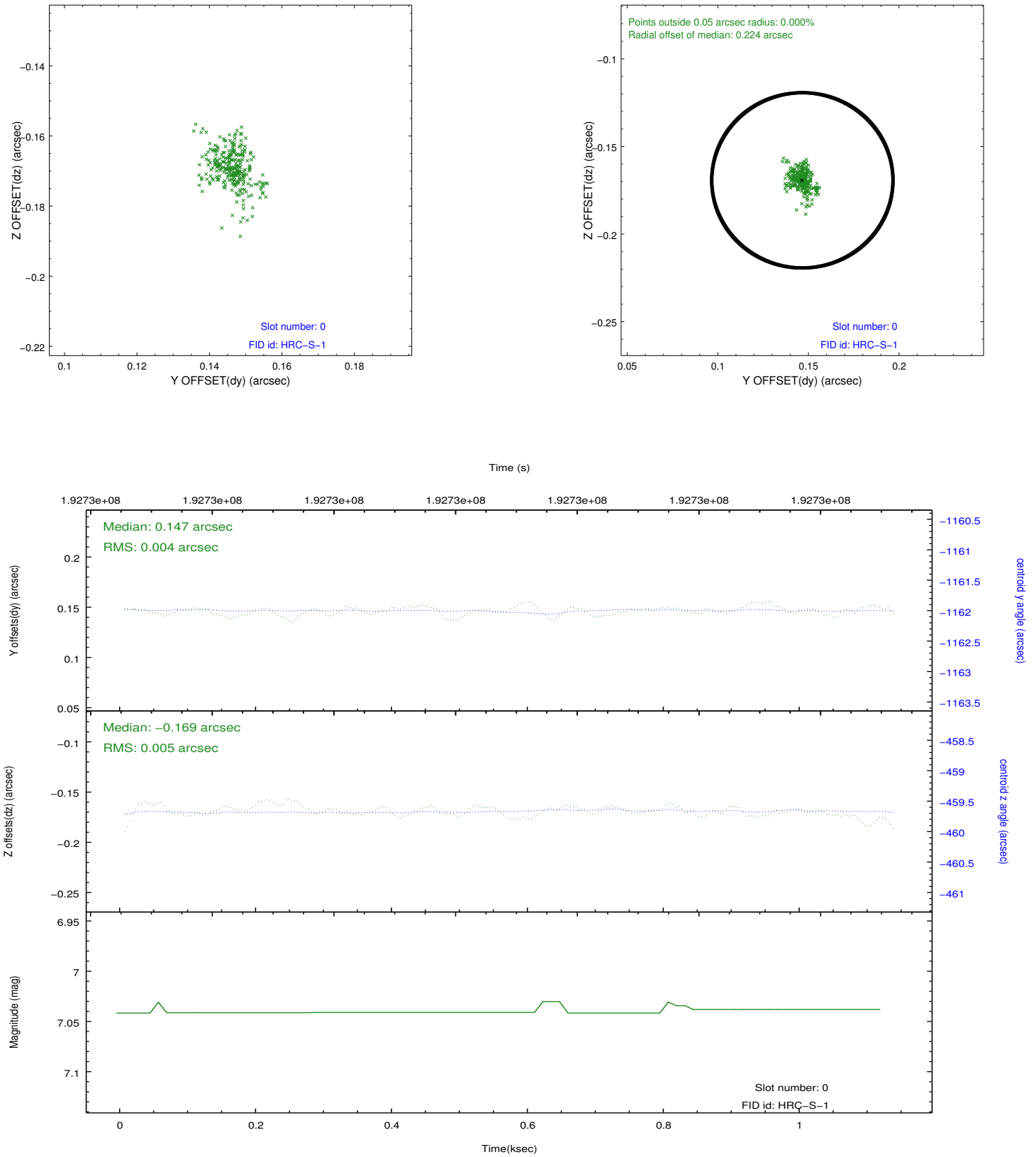


## 2.4.5 Slot 7

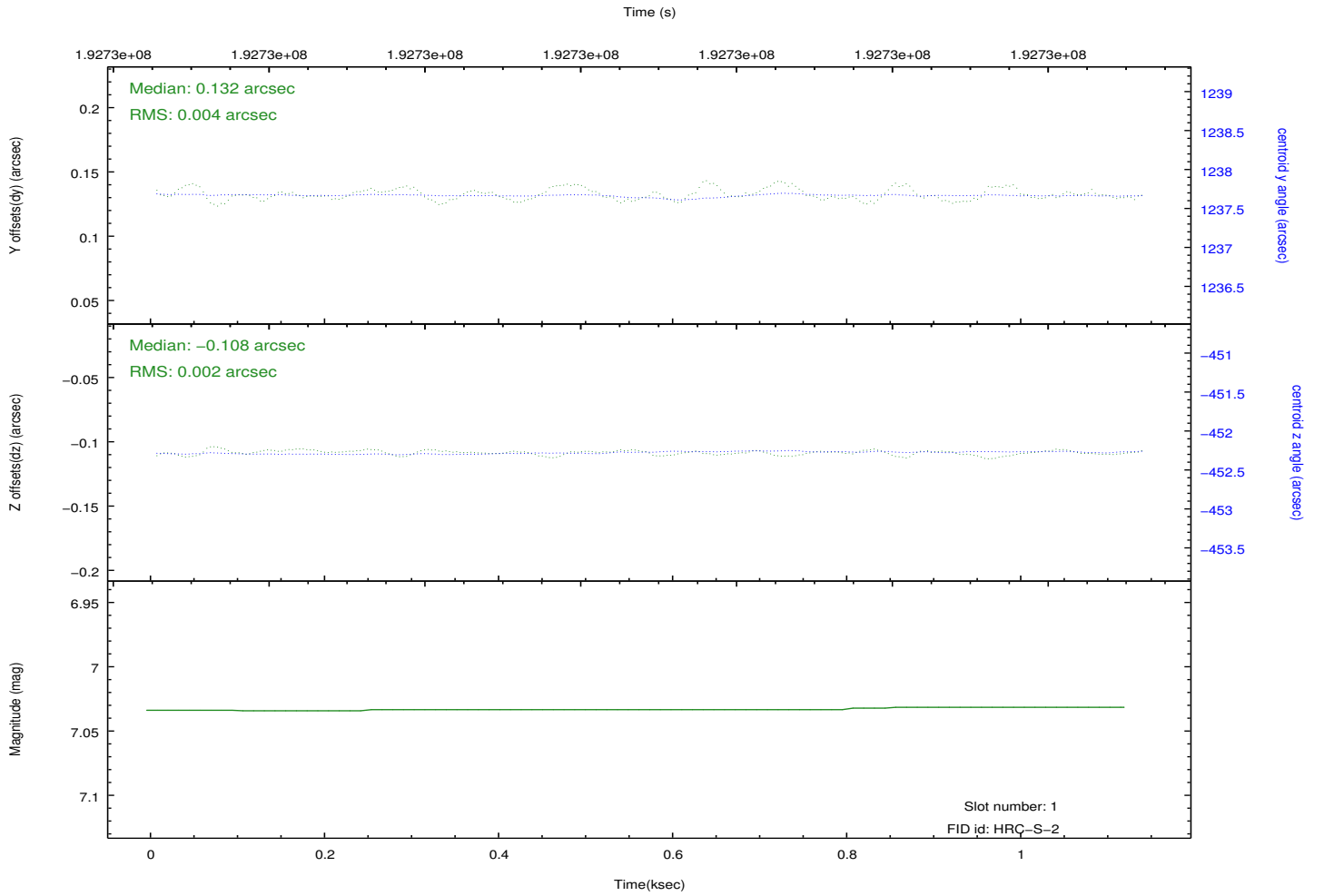
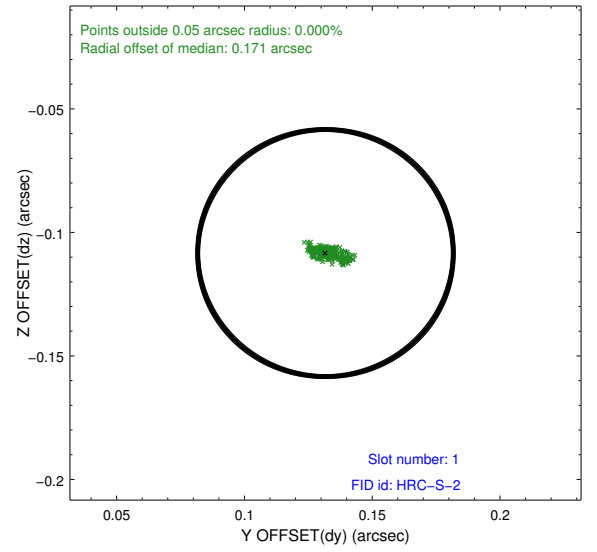
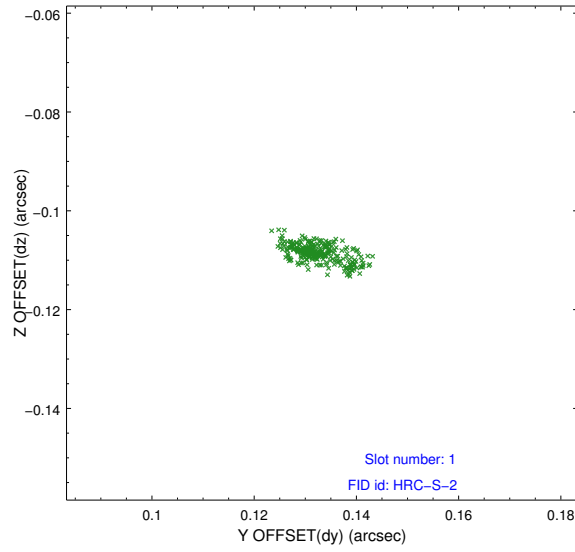


## 2.5 FID Slots

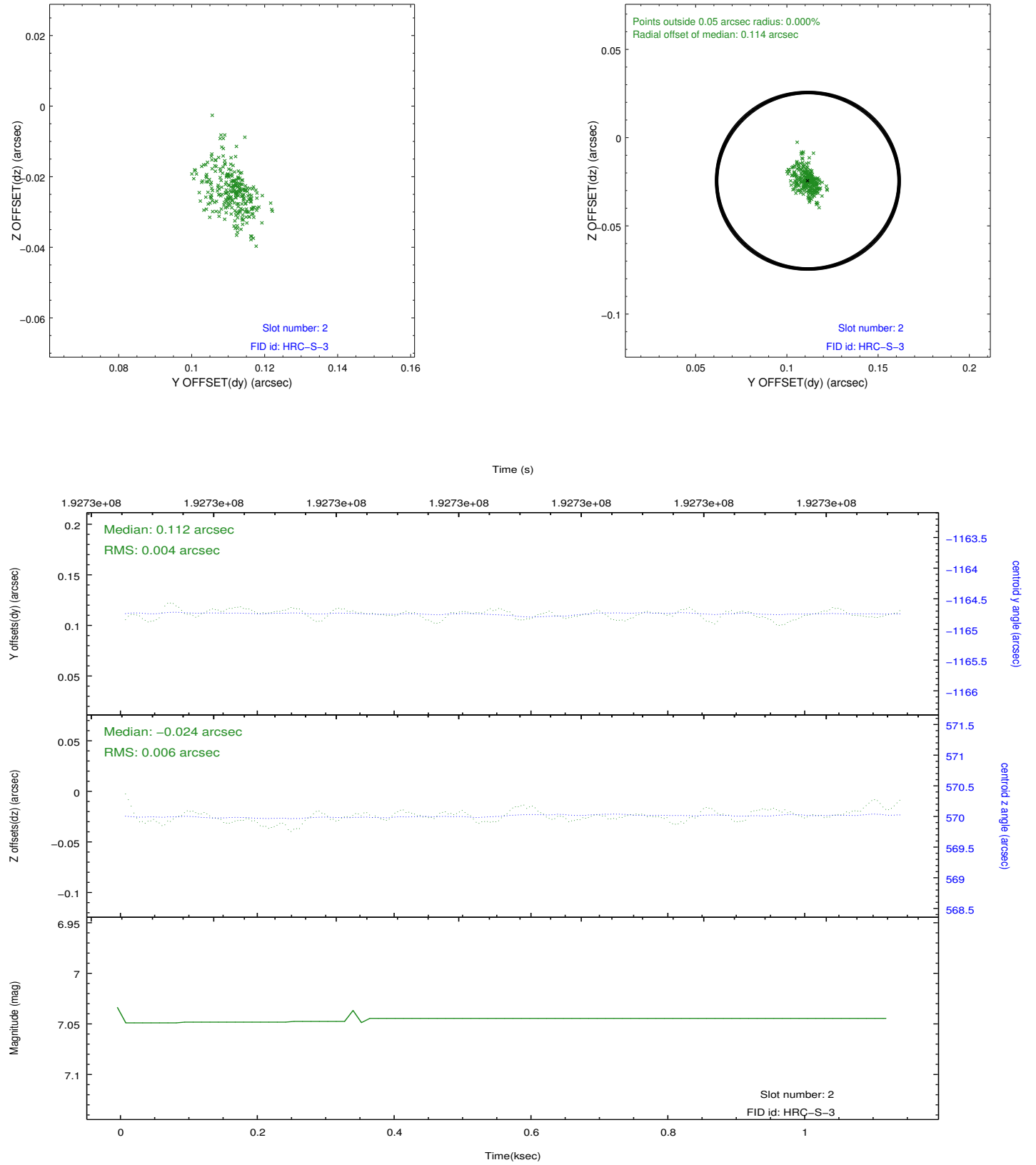
### 2.5.1 Slot 0



## 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)	2012.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.087

### A.2 Comments