

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4340 - L2 Version 3  
Chandra X-Ray Center

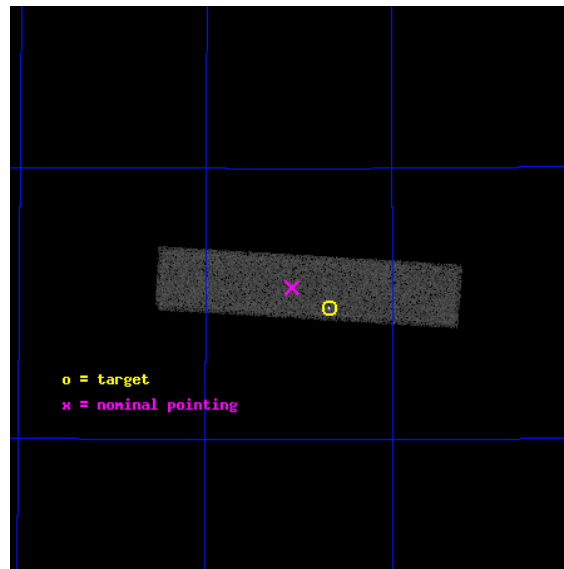
L2 Processing Date : Oct 23 2012

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# 1 Front

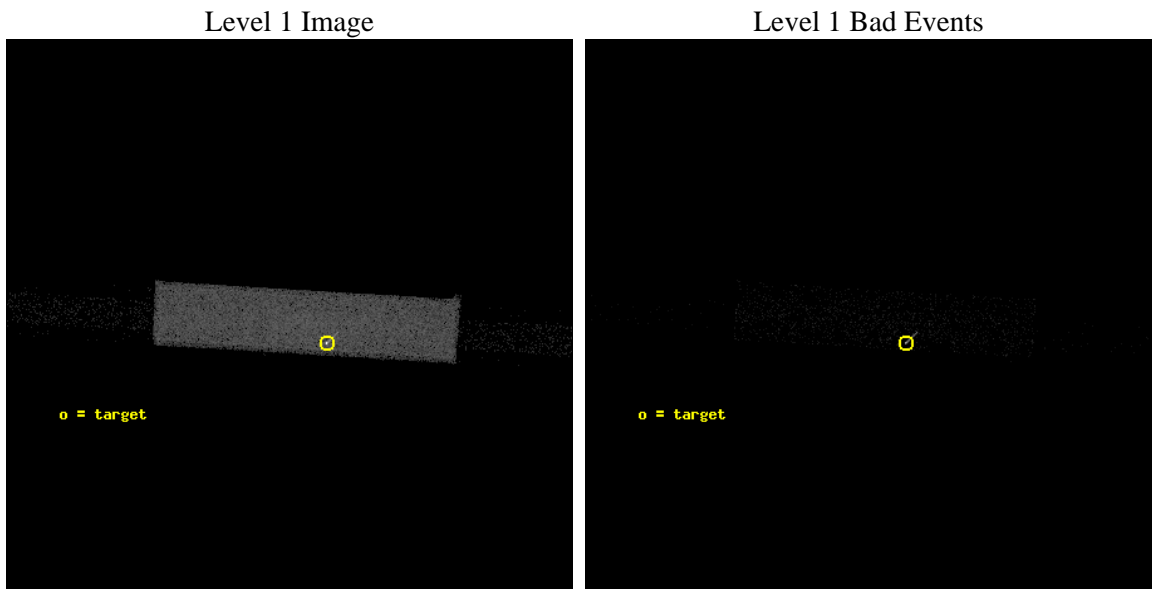
seq_num	290300	Sequence number
obs_id	4340	Observation id
title	AO4A CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-S GAIN	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.26926416627	Nominal RA [deg]
dec_nom	45.779969061722	Nominal Dec [deg]
roll_nom	3.3489819953608	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1141.0812980235	[s]
livetime	1135.0859117918	Ontime multiplied by DTCOR
l2events	41902	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	1141.0812980235	[s]
caldbver	4.5.2	&#160	l1events	68556	Number of level 1 events
date	2012-10-23T09:06:16	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

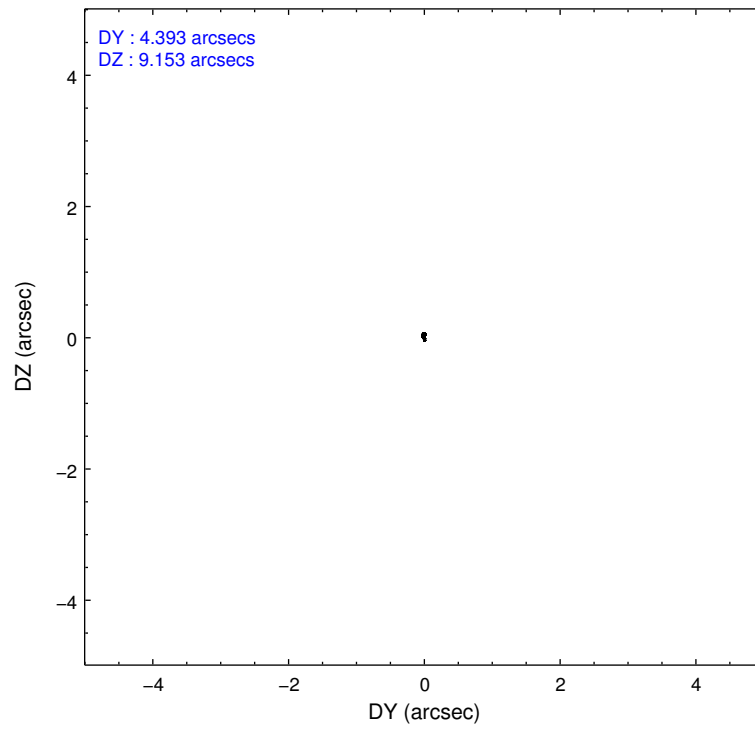
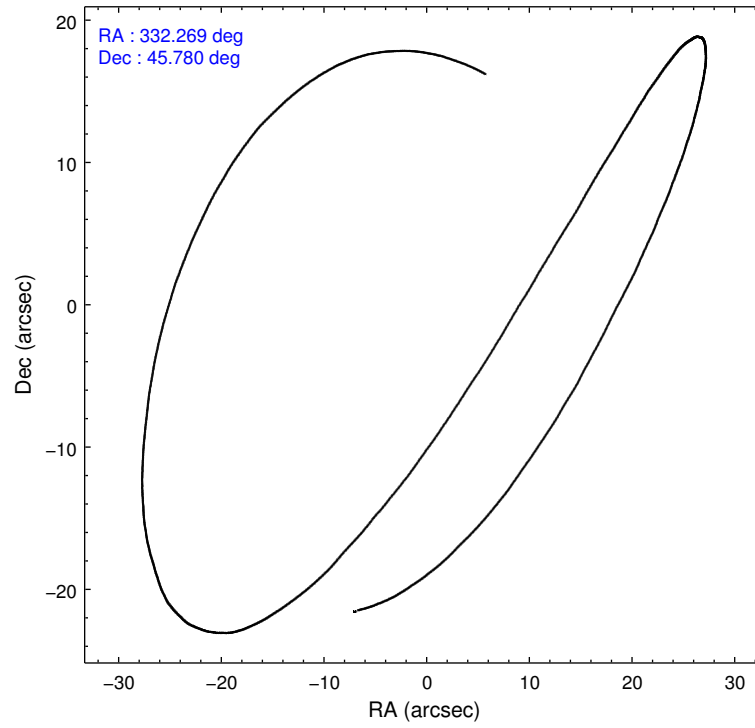
Level 1 Events

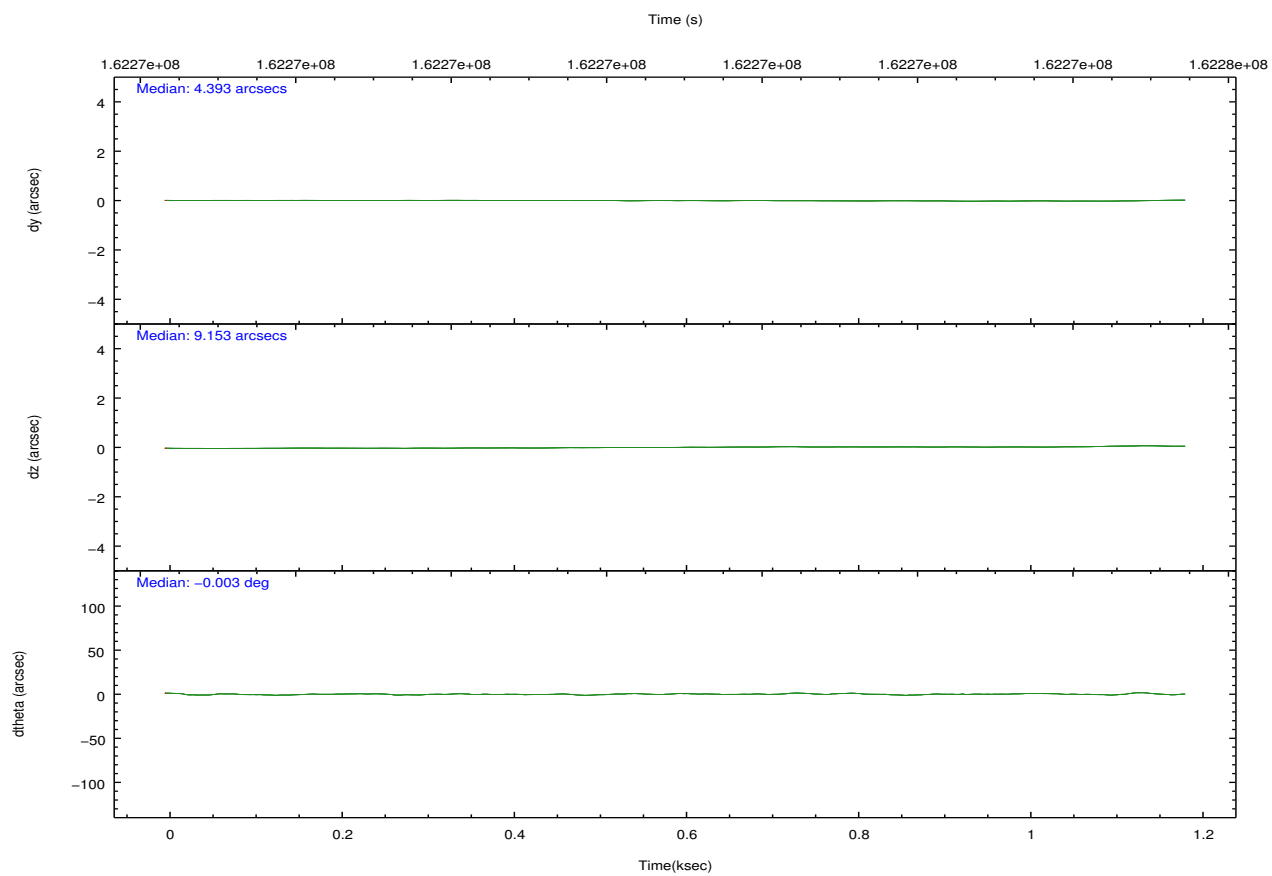
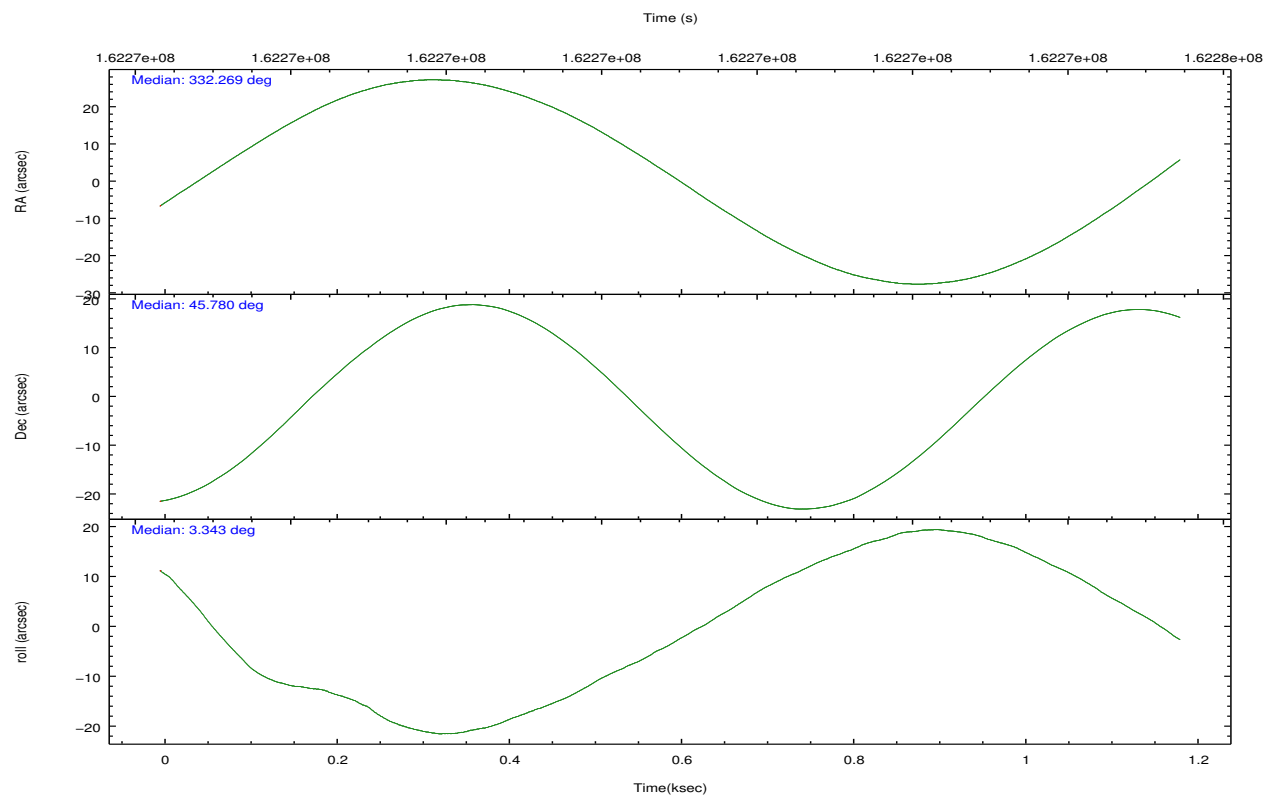
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1268	66099	1189
rejected events	1268	14874	1189
rejected %	100%	22%	100%

## 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	332.236256	332.2692641662745			
[deg] Pointing Dec	45.762687	45.77996906172187			
[deg] Pointing Roll	3.305308	3.348981995360794			
[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)	162273875.184000	162273499.58121			
Observation start date	2003-02-22T04:03:31	2003-02-22T03:58:19			
[s] Observation end time (MET)	162274875.184000	162275009.91878			
Observation end date	2003-02-22T04:20:11	2003-02-22T04:23:29			

## 2.3 Aspect



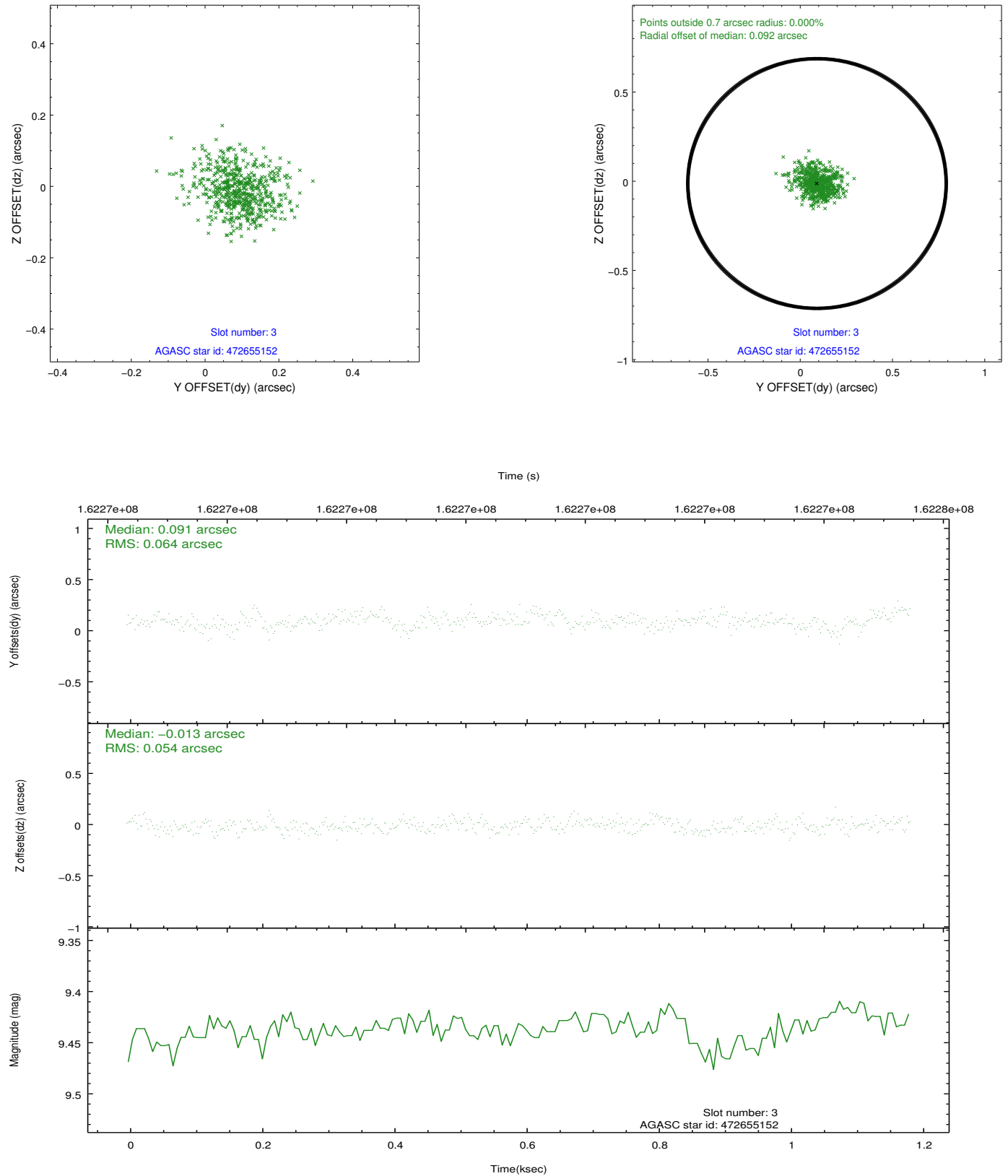


Slot Statistics

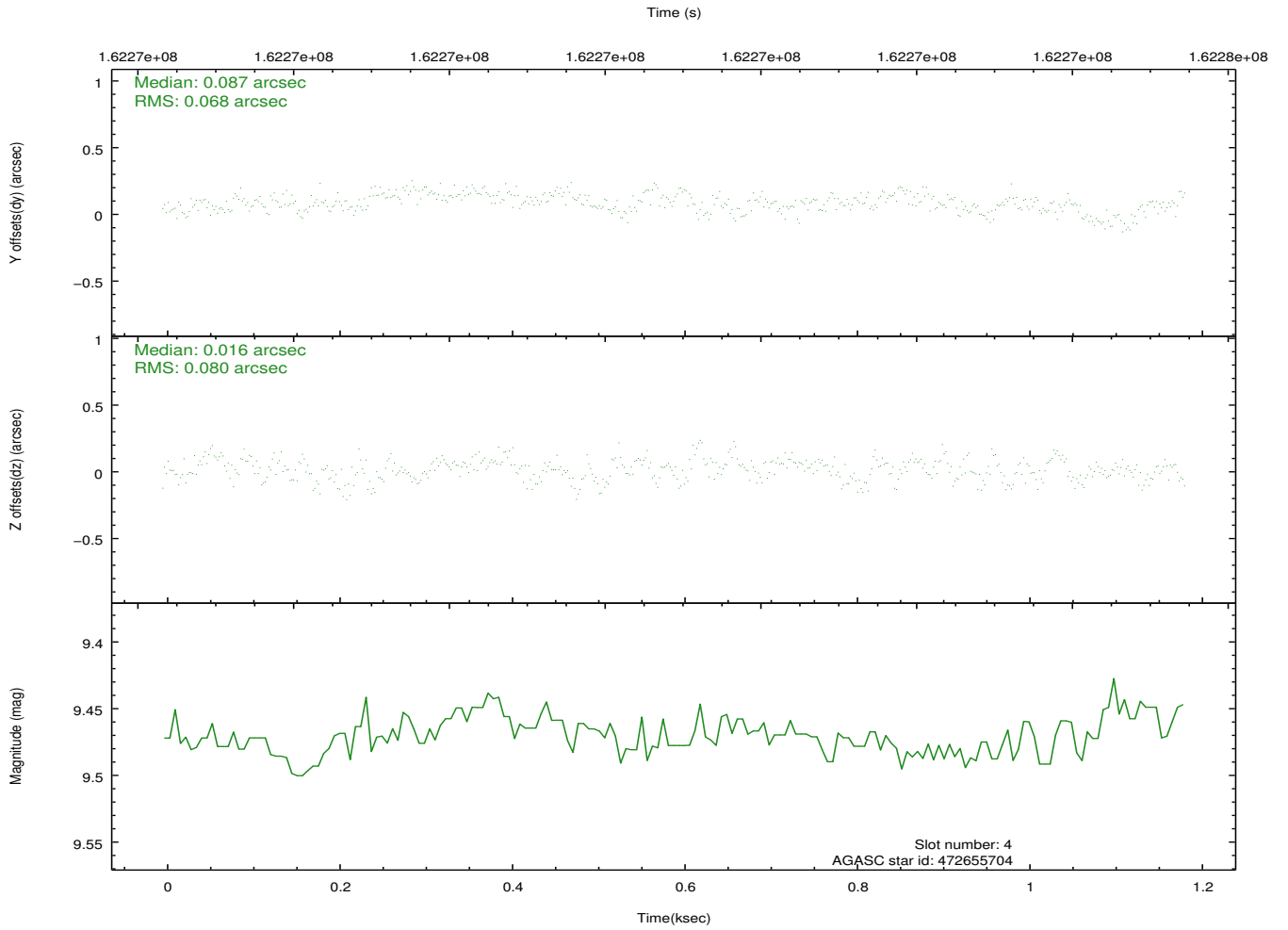
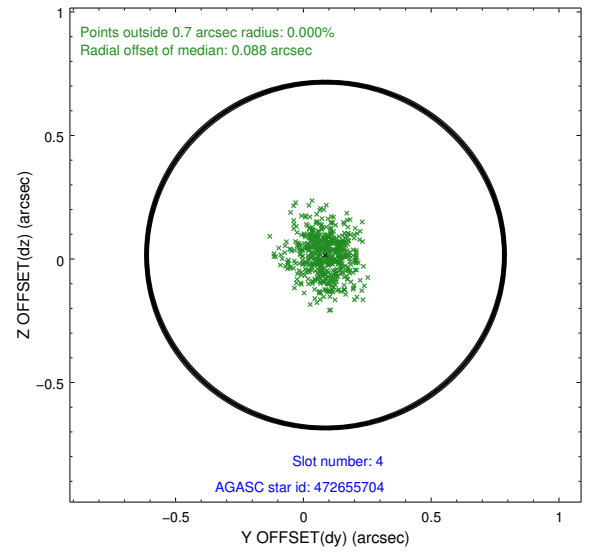
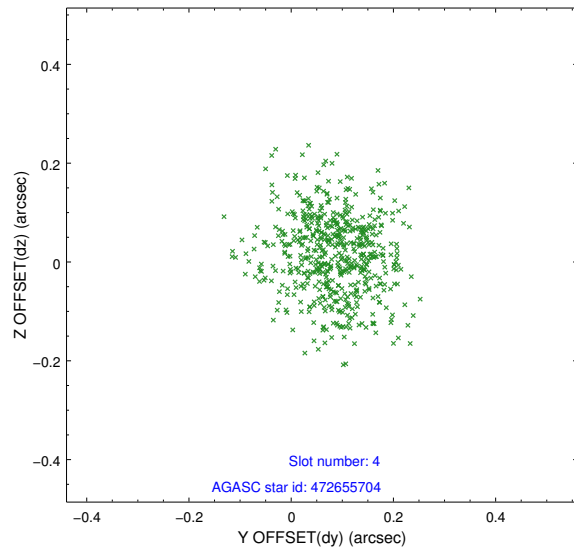
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.02	290	0.161	-0.177	0.006	0.010	0.000000	0.000000	-1158.44	-457.80
1	FID	HRC-S-2	7.01	290	0.062	-0.085	0.005	0.008	0.000000	0.000000	1237.15	-451.96
2	FID	HRC-S-3	7.03	290	0.167	-0.040	0.007	0.012	0.000000	0.000000	-1156.88	570.30
3	GUIDE	472655152	9.44	579	0.091	-0.013	0.091	0.145	332.504239	45.862991	691.90	321.72
4	GUIDE	472655704	9.47	579	0.087	0.016	0.113	0.182	332.167195	45.285228	-272.03	-1706.49
5	GUIDE	472659832	9.46	579	0.009	0.061	0.093	0.155	332.780399	46.098139	1425.66	1128.02
6	GUIDE	472527720	6.99	579	-0.177	-0.067	0.064	0.101	331.460205	45.112509	-2100.06	-2213.19
7	GUIDE	472533912	9.18	578	-0.028	-0.013	0.113	0.183	331.791136	46.368695	-981.61	2239.73

## 2.4 Star Slots

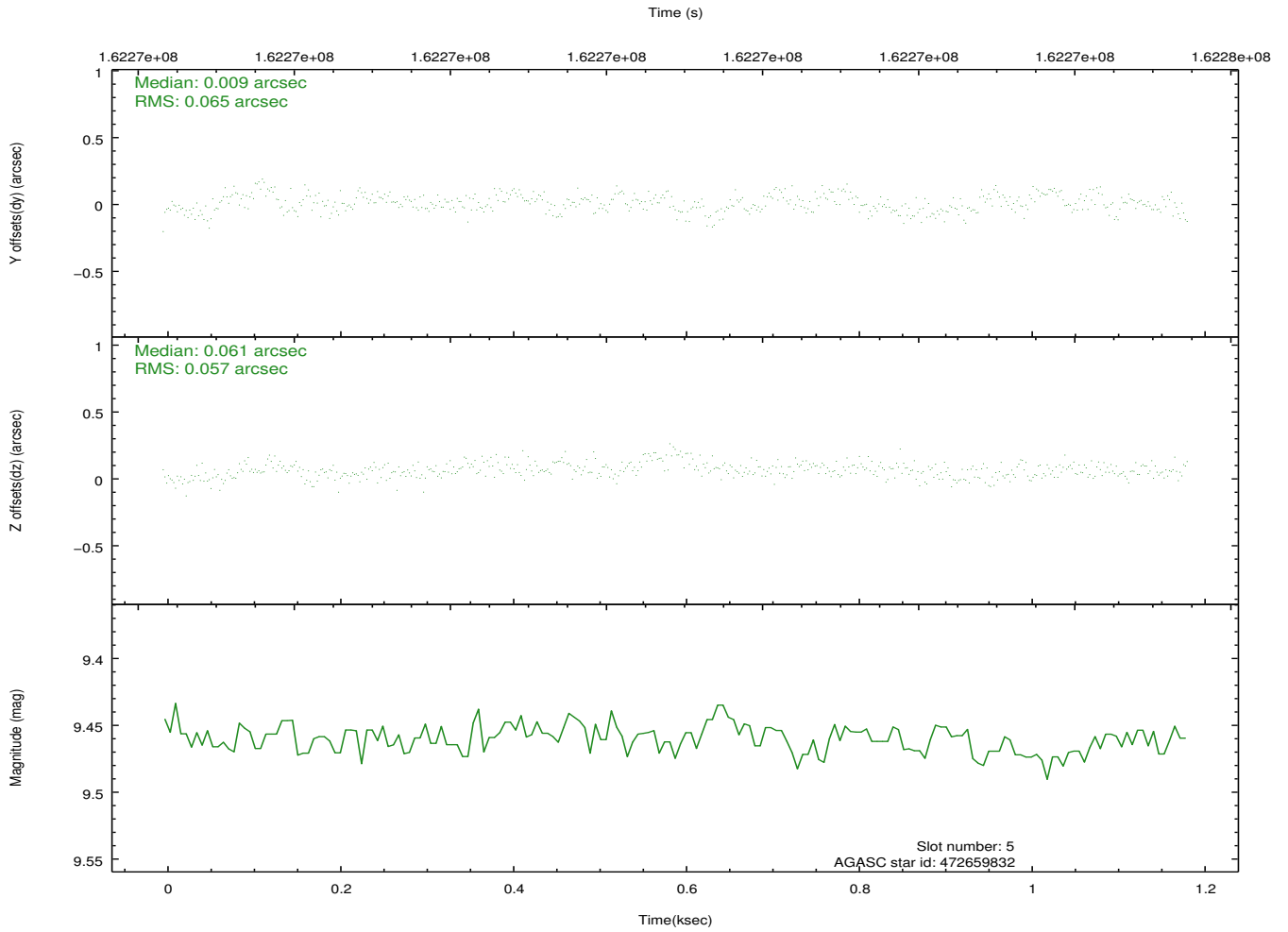
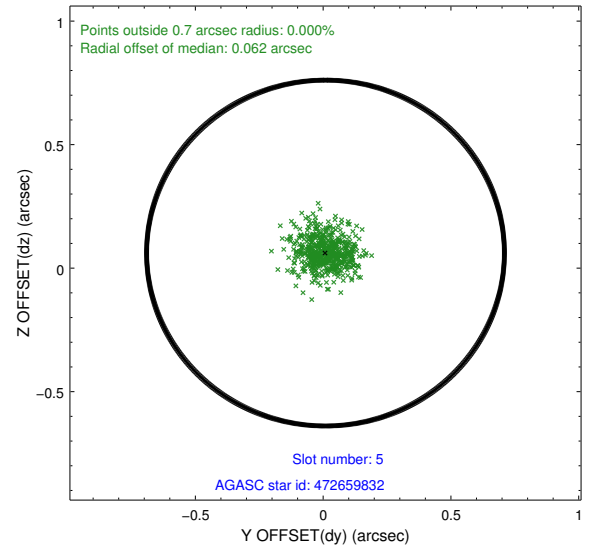
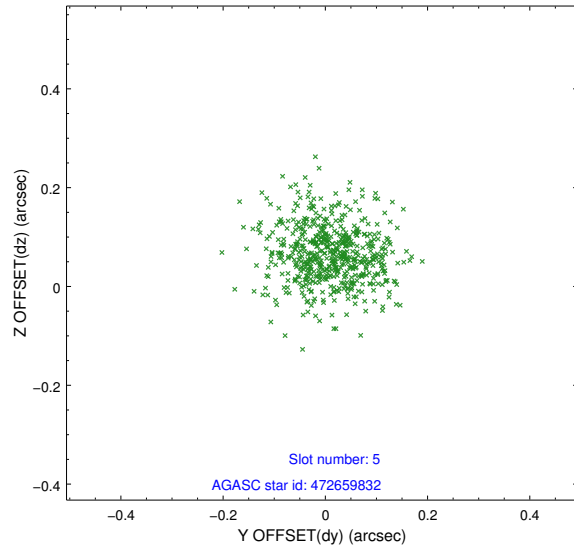
### 2.4.1 Slot 3



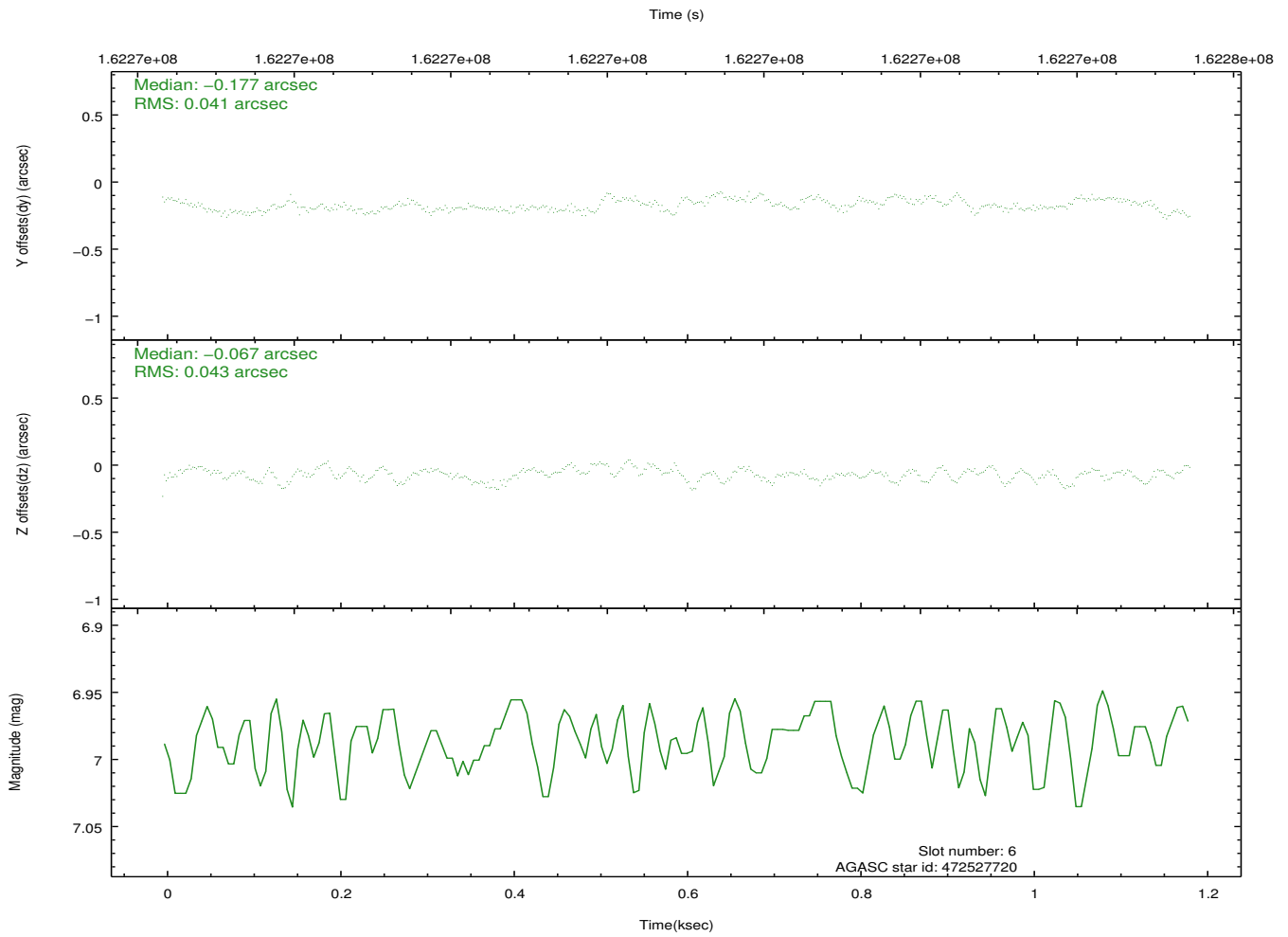
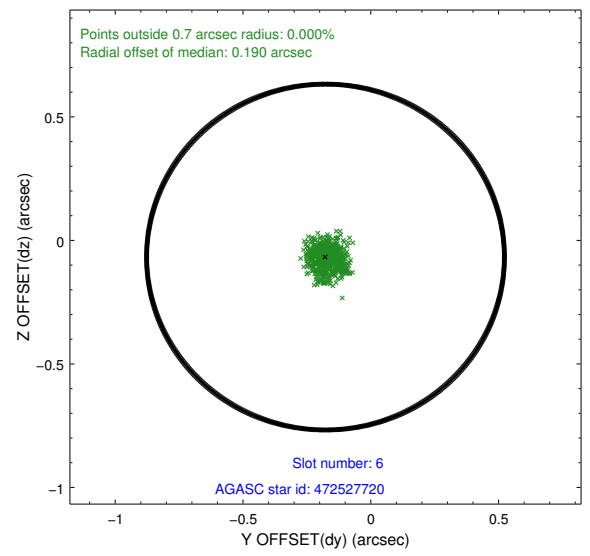
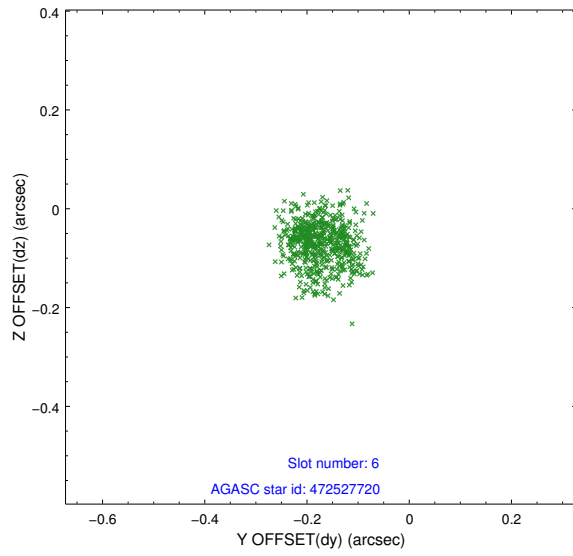
## 2.4.2 Slot 4



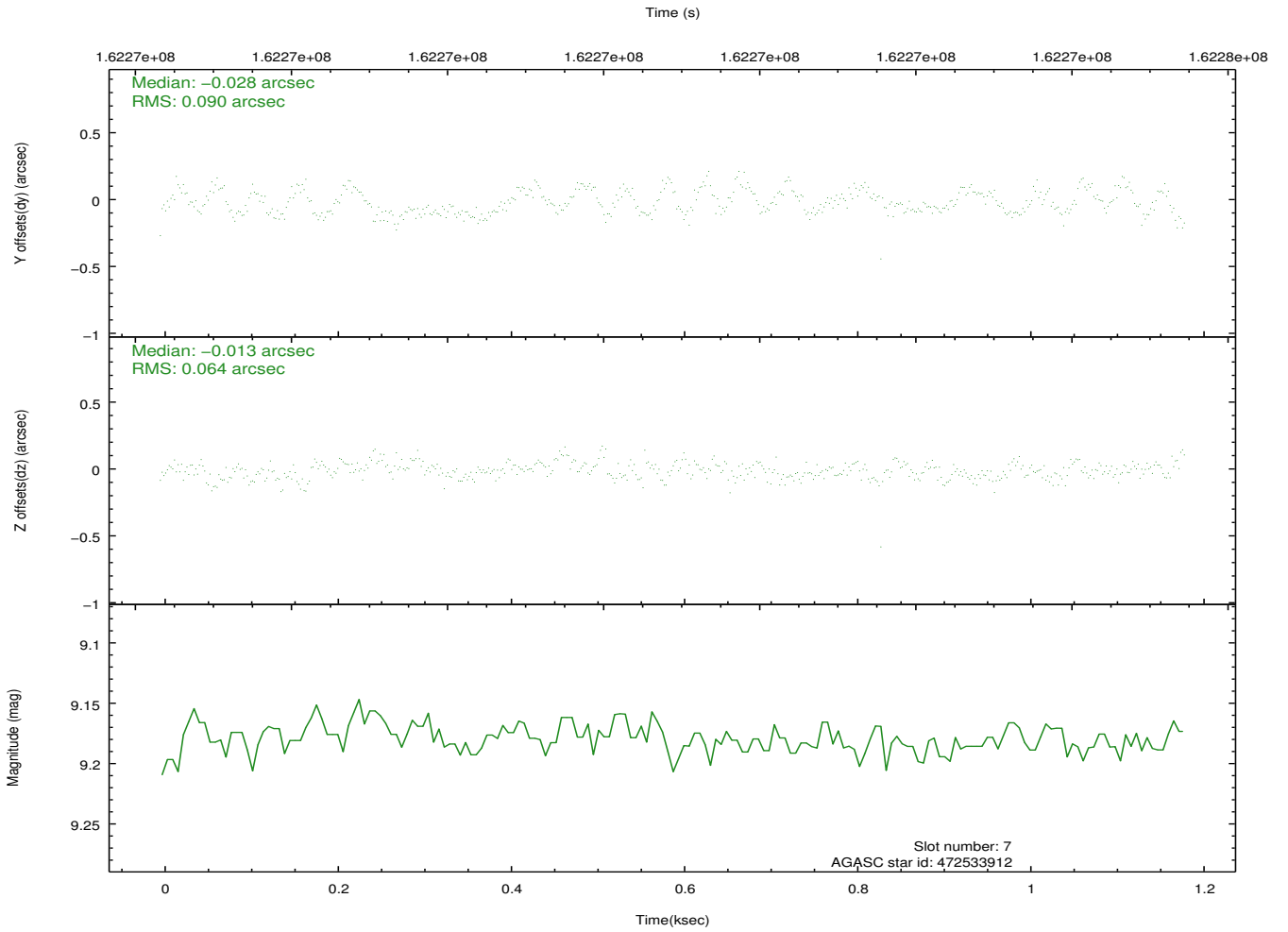
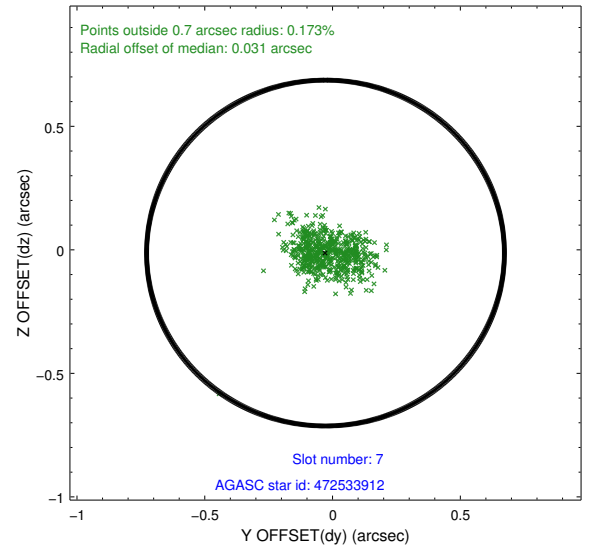
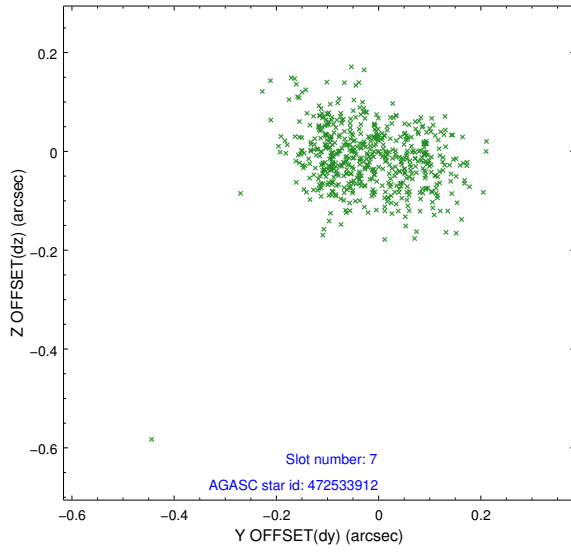
### 2.4.3 Slot 5



## 2.4.4 Slot 6

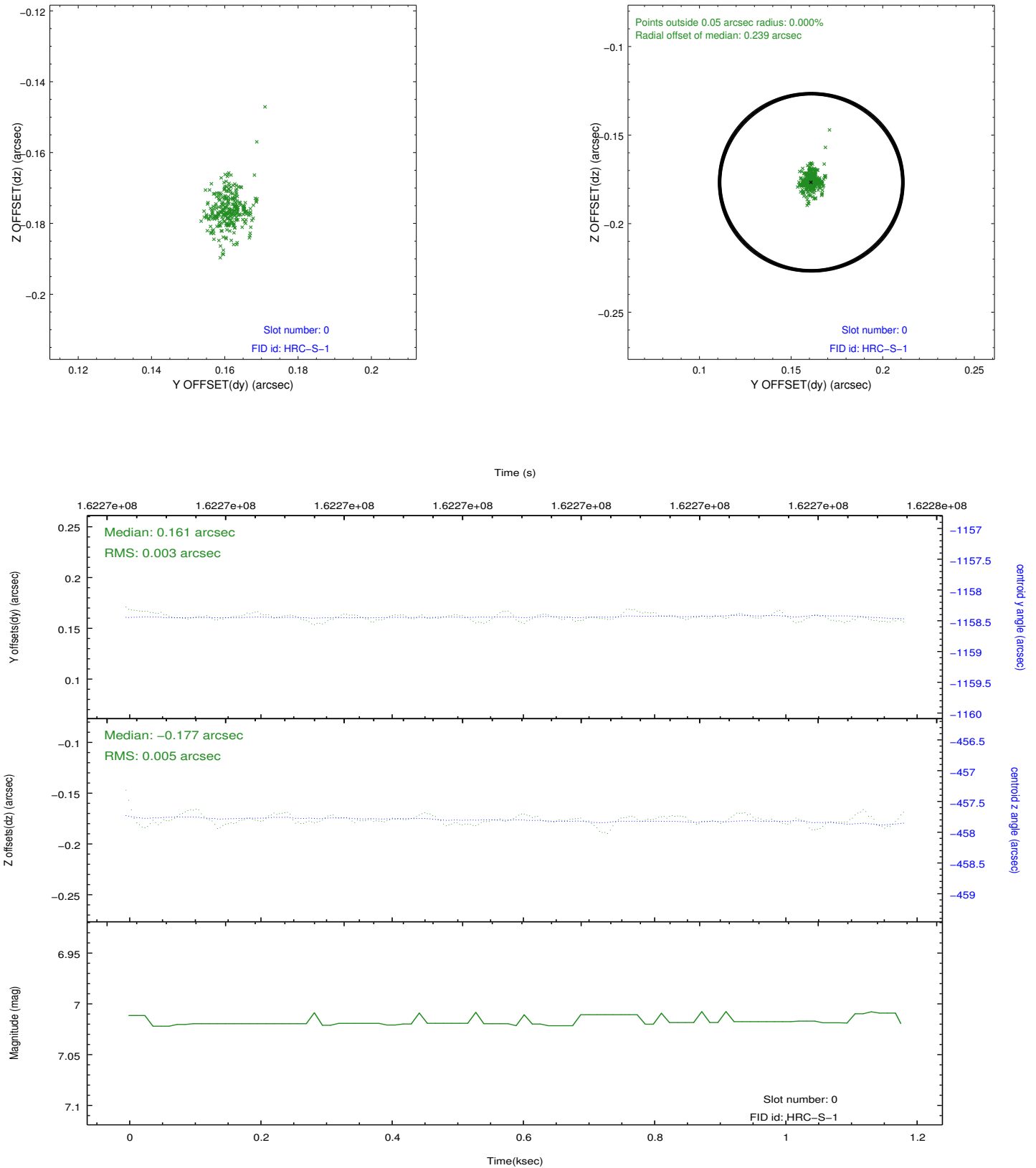


## 2.4.5 Slot 7

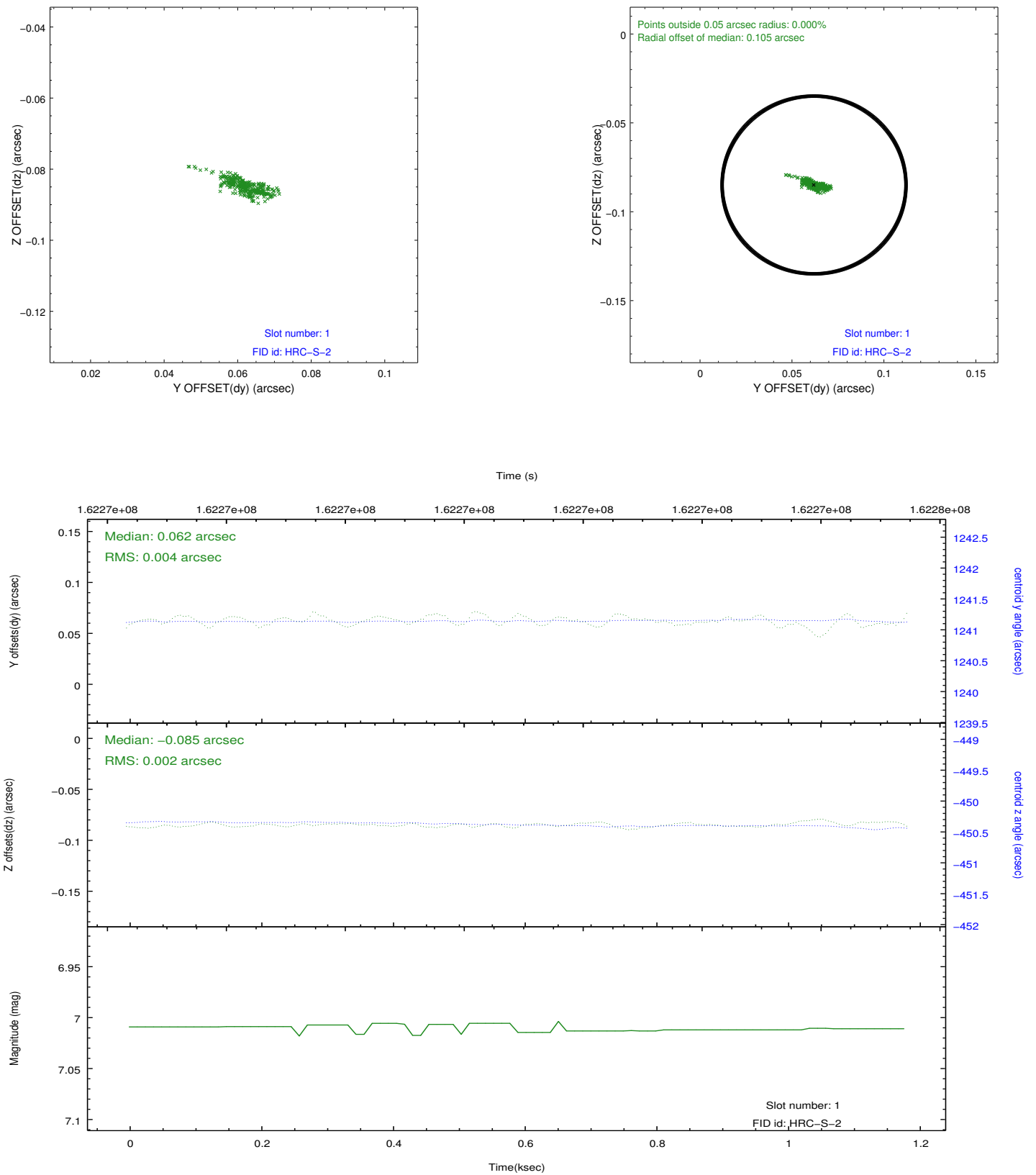


## 2.5 FID Slots

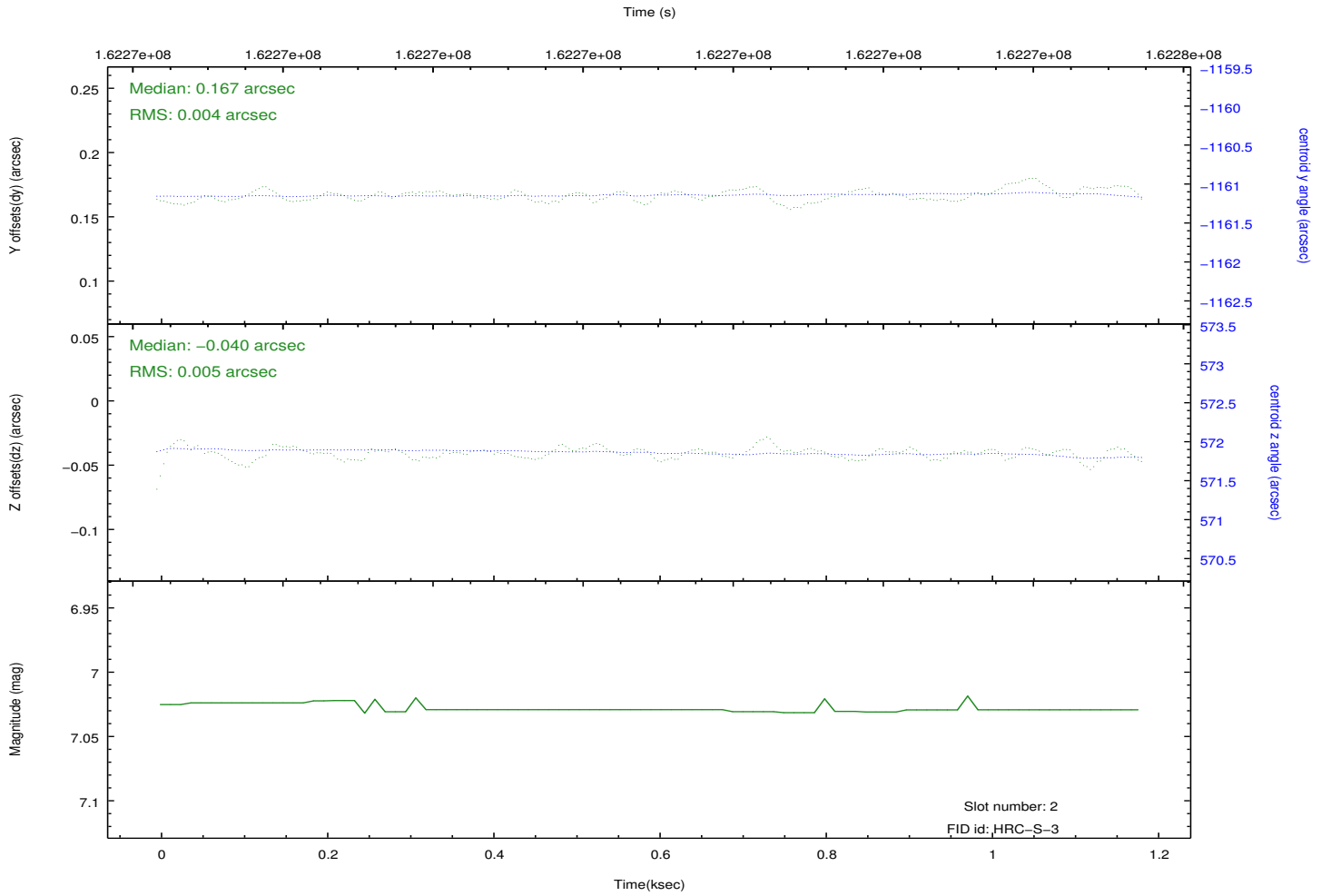
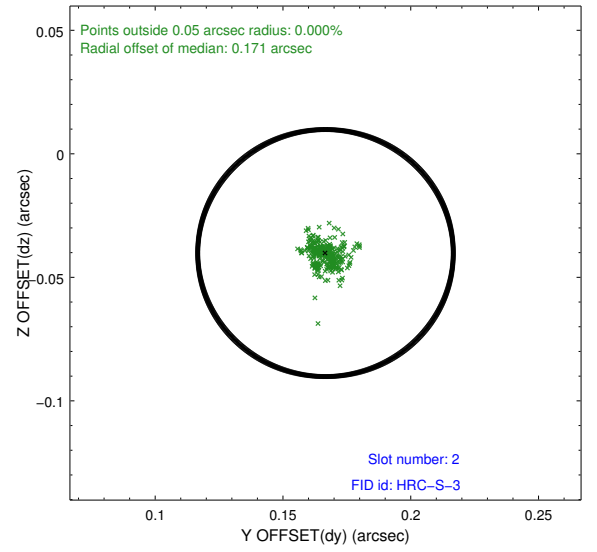
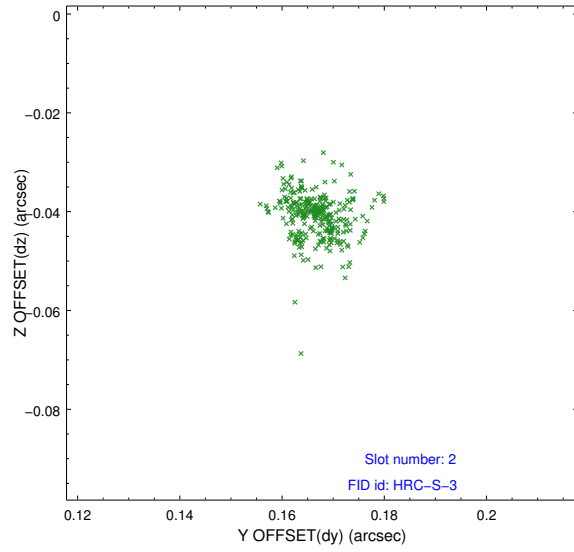
### 2.5.1 Slot 0



## 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	1.141

### **A.2 Comments**