

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13079 - L2 Version 4  
Chandra X-Ray Center

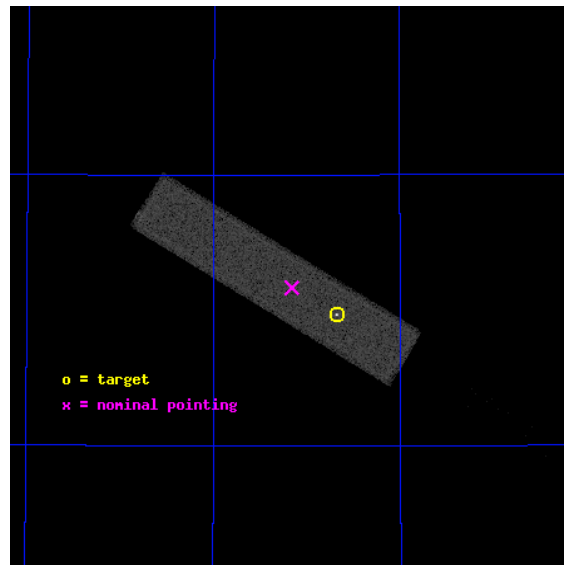
L2 Processing Date : Aug 9 2012

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# 1 Front

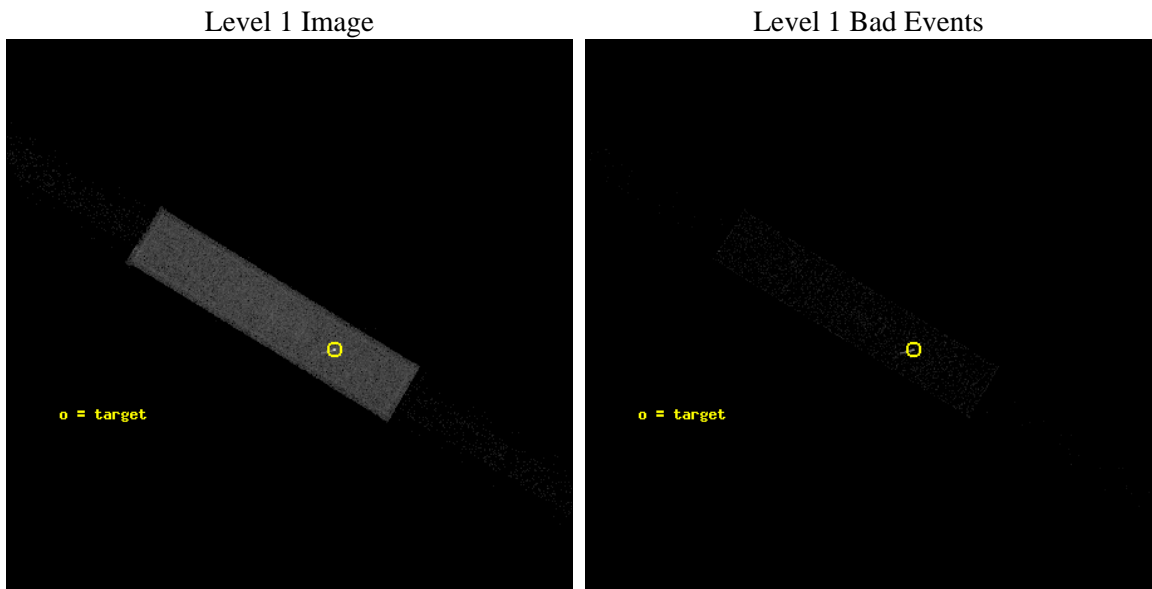
seq_num	290998	Sequence number
obs_id	13079	Observation id
title	AO-12 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.28983047726	Nominal RA [deg]
dec_nom	45.792150428744	Nominal Dec [deg]
roll_nom	211.25789474166	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1155.4313105941	[s]
livetime	1147.220484856	Ontime multiplied by DTCOR
l2events	62067	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	1155.4313105941	[s]
caldbver	4.5.1.1	&#160	l1events	95822	Number of level 1 events
date	2012-08-10T01:49:36	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

Level 1 Events

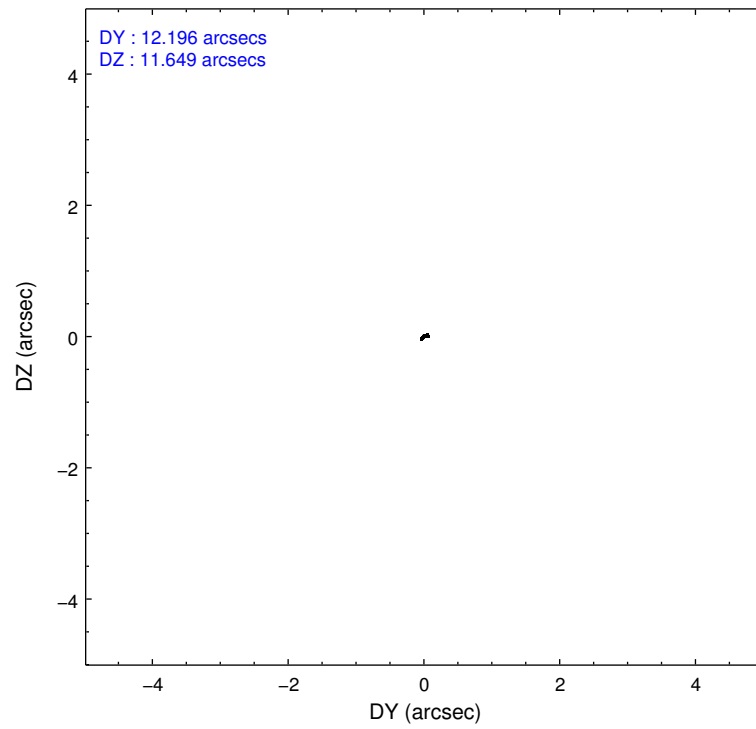
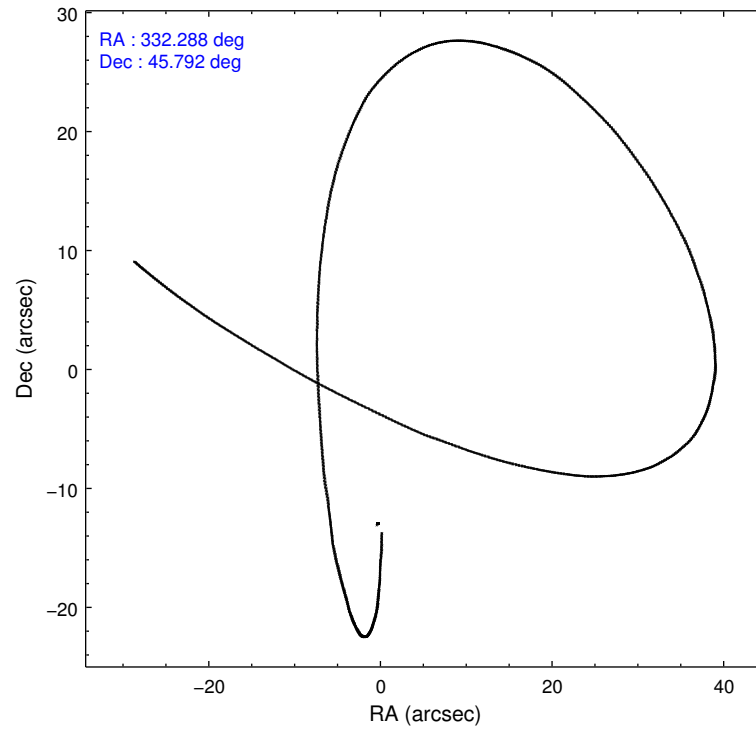
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	785	94285	752
rejected events	785	21585	730
rejected %	100%	22%	97%

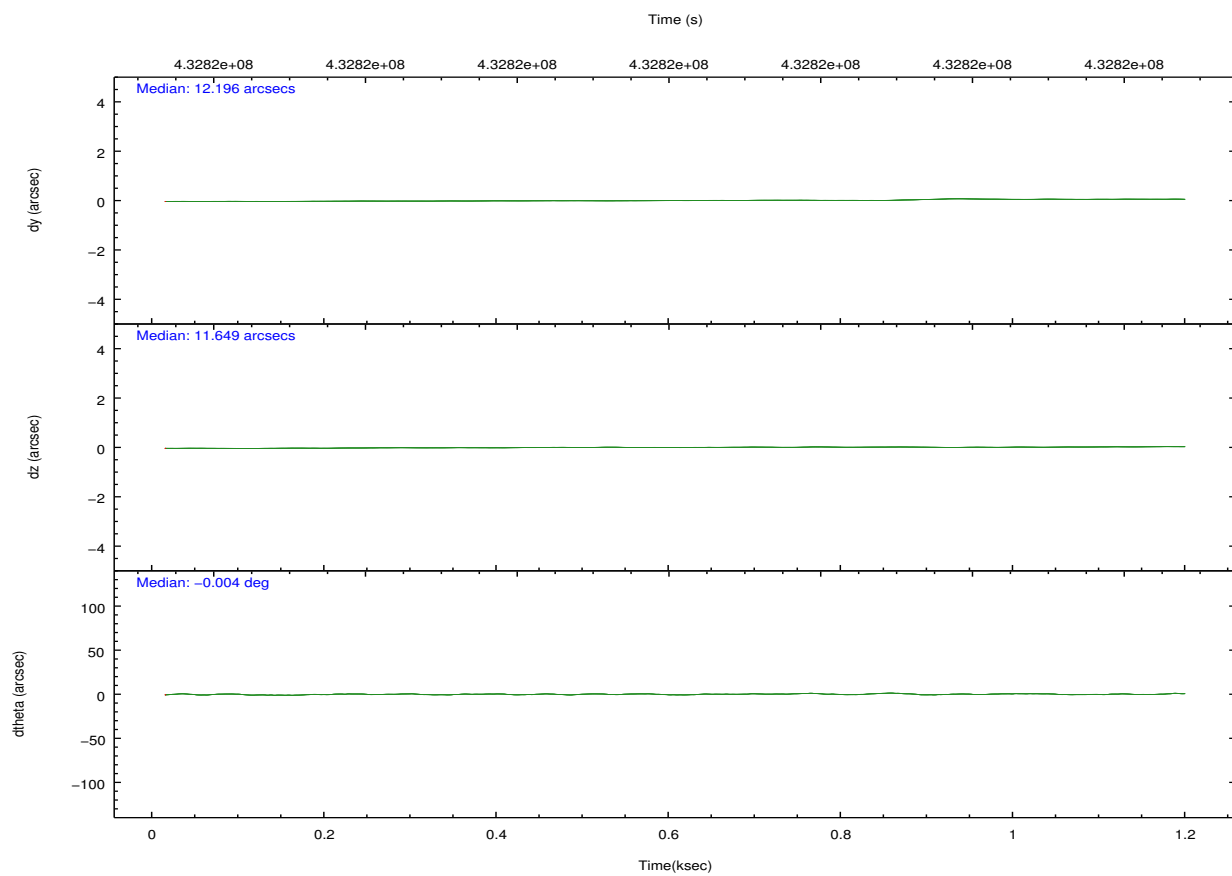
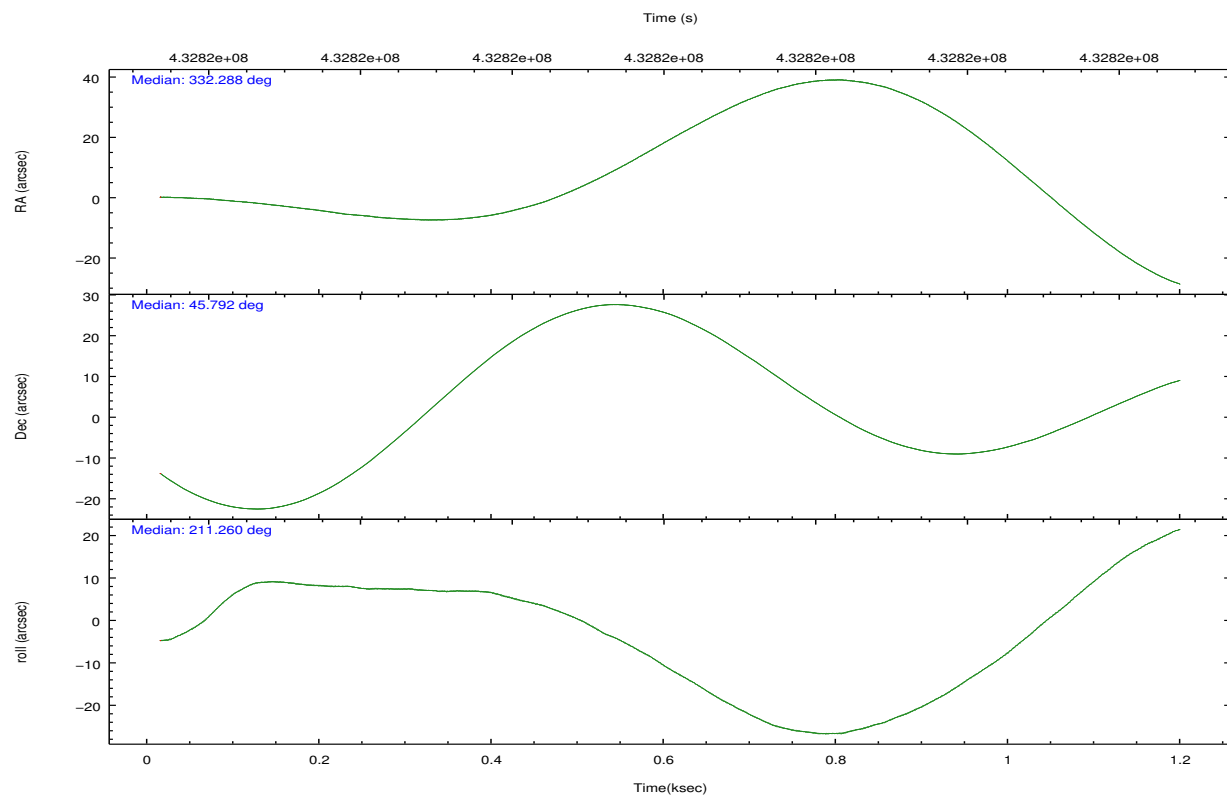
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.307734	332.289830477263
[deg] Pointing Dec	45.818865	45.79215042874365
[deg] Pointing Roll	211.177701	211.2578947416573
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.4635187648994
[mm] SIM translation stage offset	0	-0.007540371344731511
[s] Observation start time (MET)	432818602.184000	432818226.45022
Observation start date	2011-09-19T11:22:16	2011-09-19T11:17:06
[s] Observation end time (MET)	432819602.184000	432819735.7628
Observation end date	2011-09-19T11:38:56	2011-09-19T11:42:15

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect



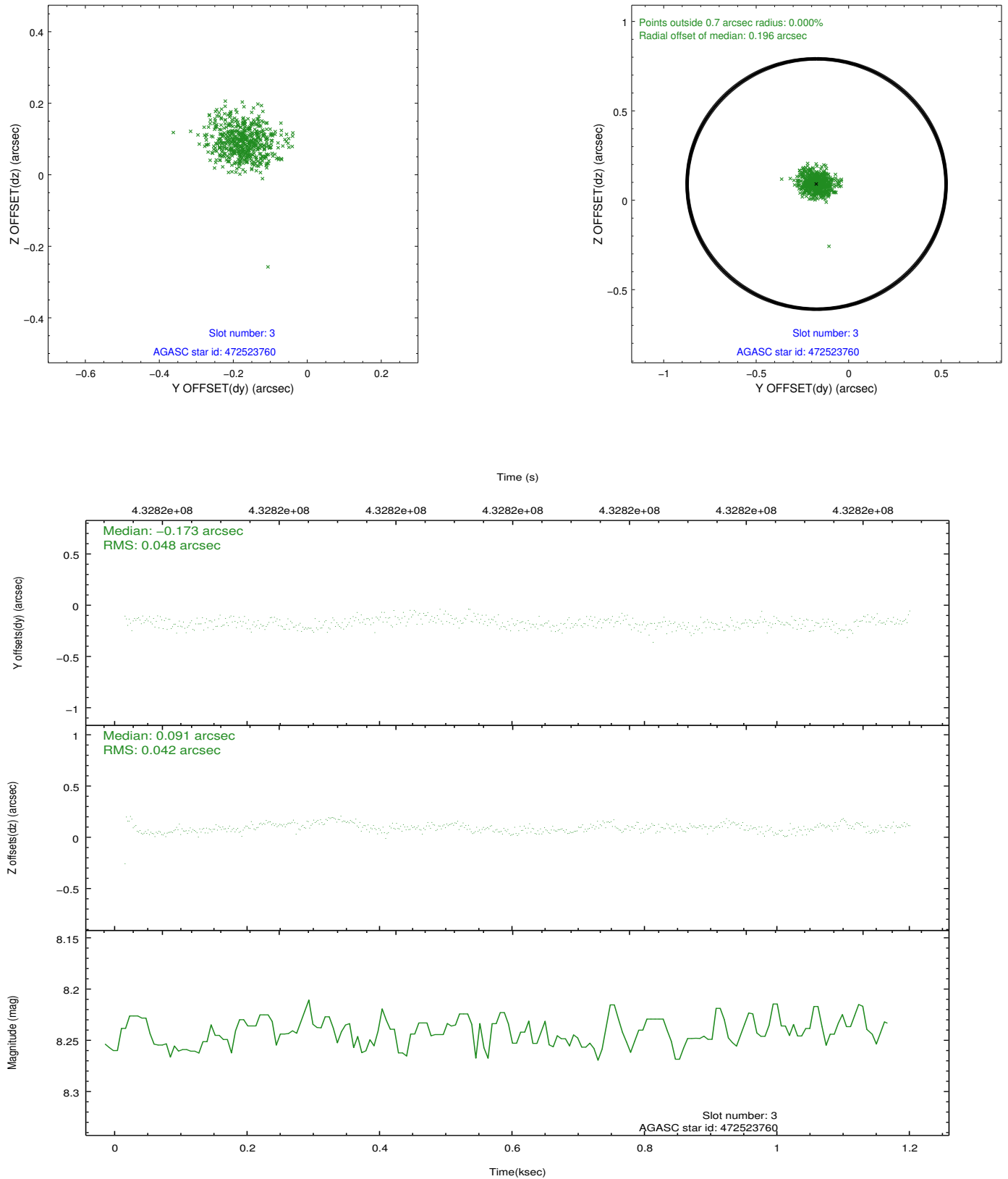


### Slot Statistics

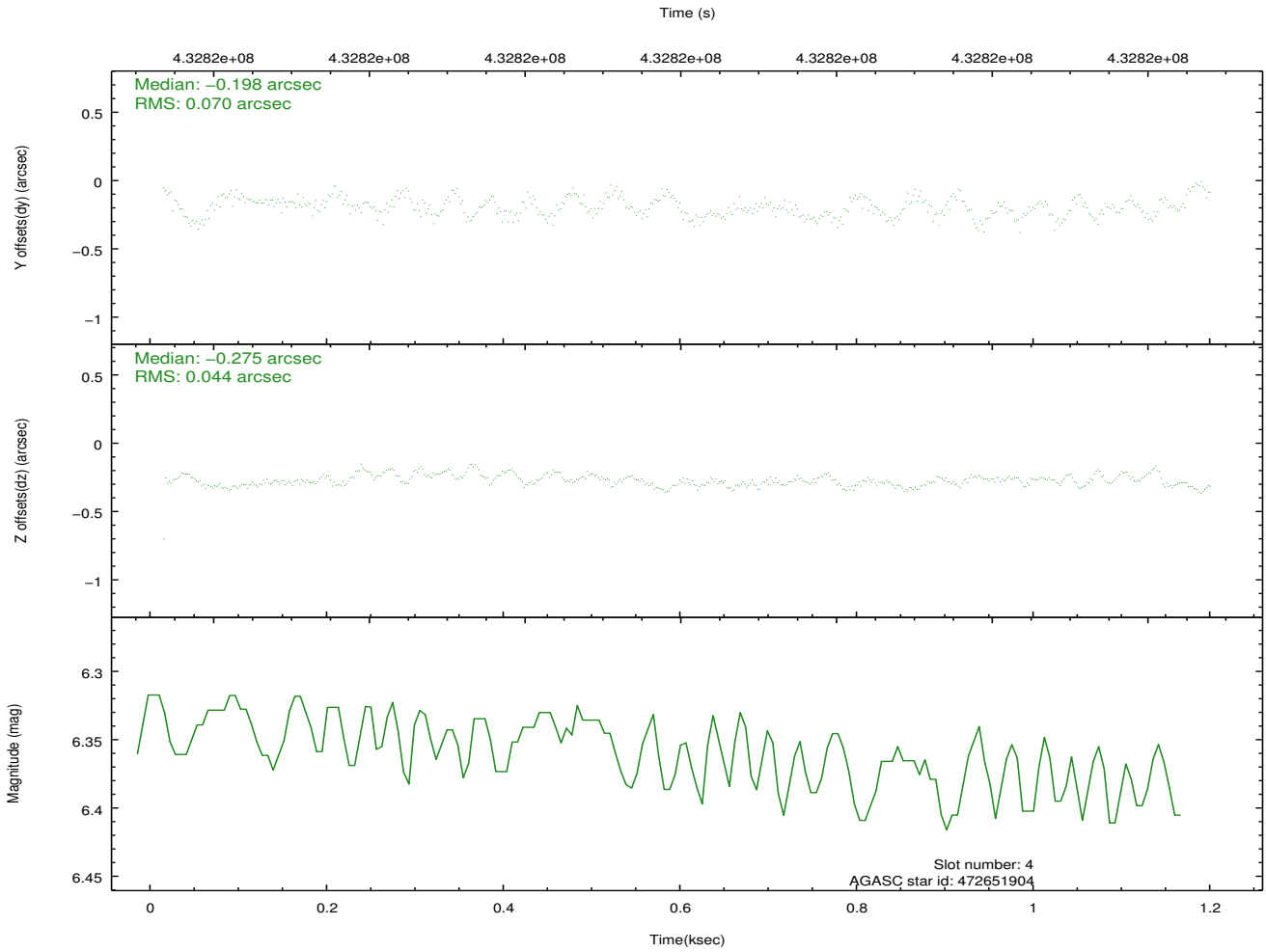
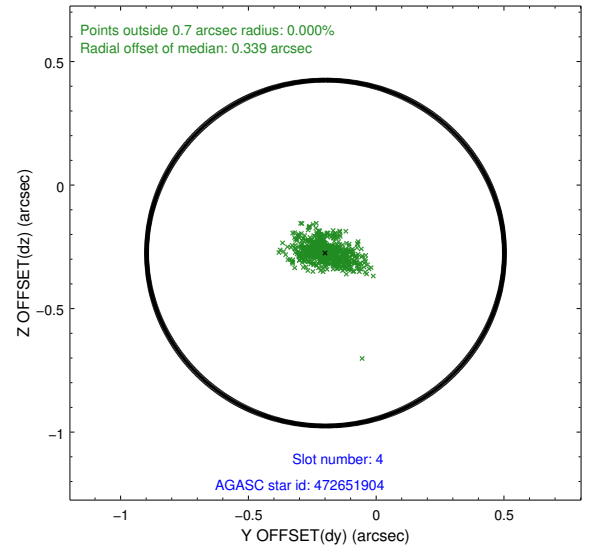
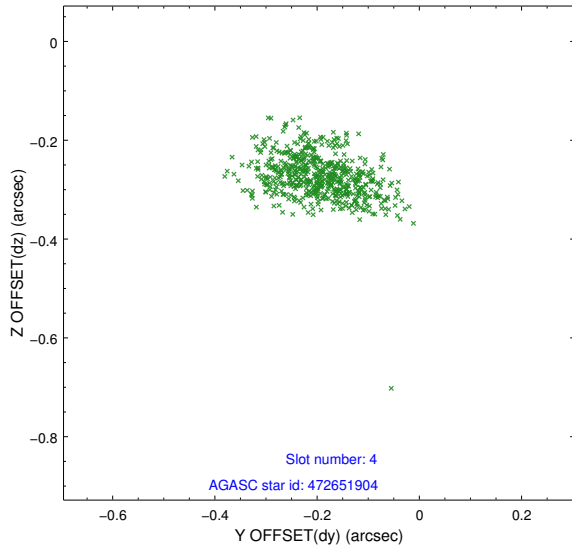
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.99	290	0.048	-0.122	0.006	0.010	0.000000	0.000000	-1166.55	-460.32
1	FID	HRC-S-2	6.98	290	0.286	-0.132	0.005	0.010	0.000000	0.000000	1229.32	-454.52
2	FID	HRC-S-3	6.99	290	0.055	-0.048	0.007	0.009	0.000000	0.000000	-1165.04	567.71
3	GUIDE	472523760	8.24	578	-0.173	0.091	0.066	0.109	331.645363	45.403260	2202.25	404.86
4	GUIDE	472651904	6.36	579	-0.198	-0.275	0.086	0.142	332.170077	45.742257	441.22	53.67
5	GUIDE	472655152	9.42	578	0.045	-0.137	0.110	0.194	332.504239	45.862991	-504.34	116.11
6	GUIDE	472665256	9.01	579	0.115	0.146	0.094	0.154	332.808125	46.195041	-1771.85	-518.68
7	GUIDE	472663080	9.40	577	0.207	0.195	0.110	0.179	332.652741	46.473840	-1957.53	-1579.43

## 2.4 Star Slots

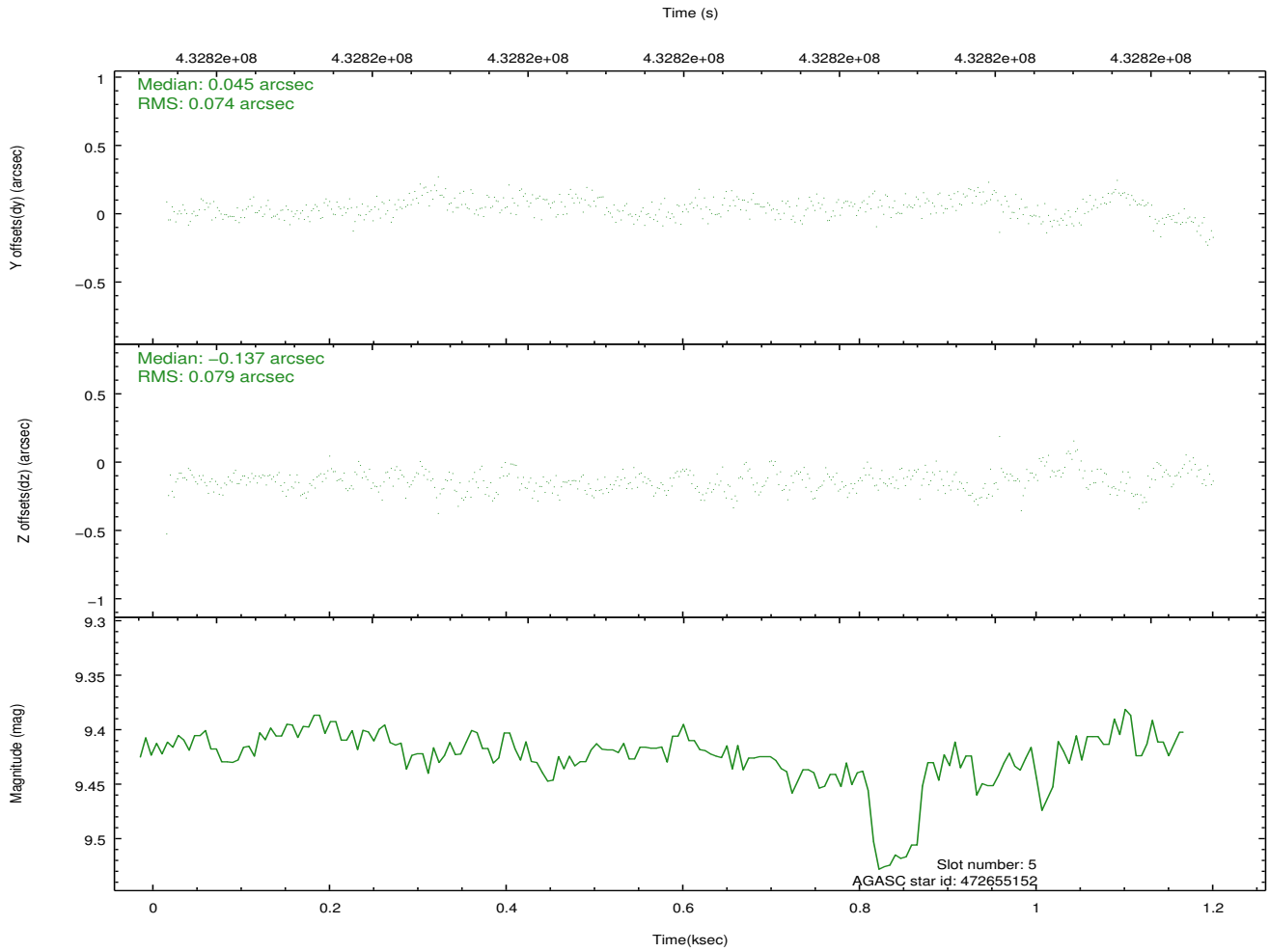
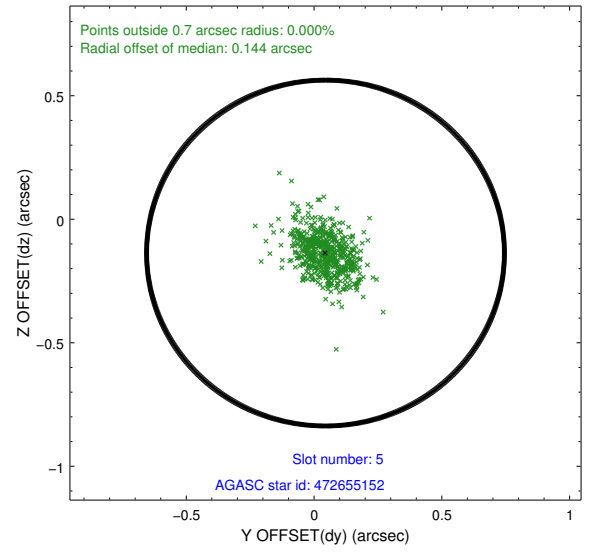
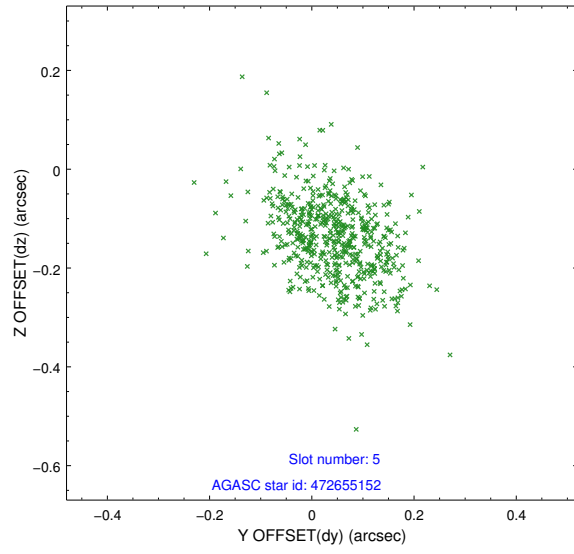
### 2.4.1 Slot 3



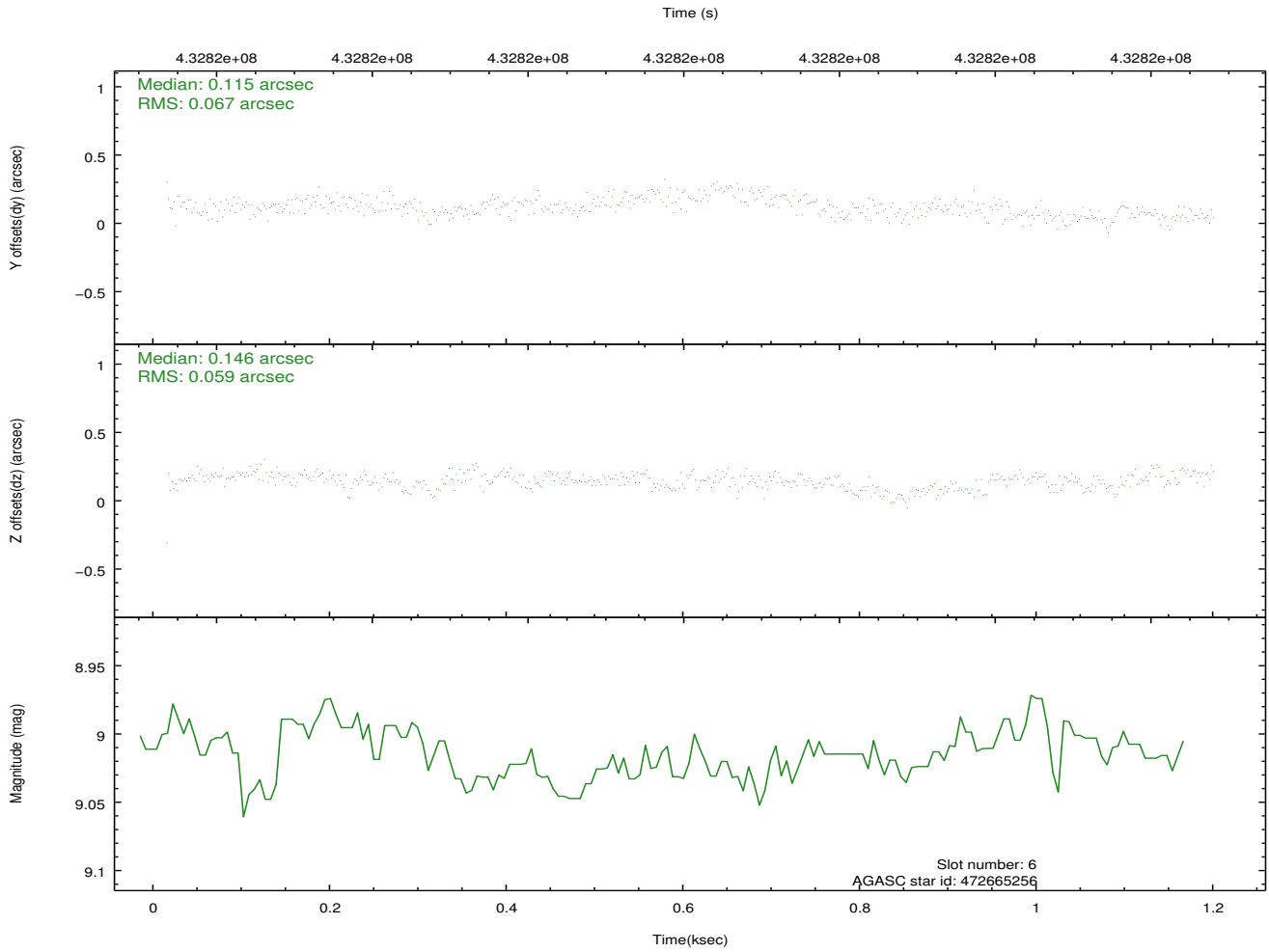
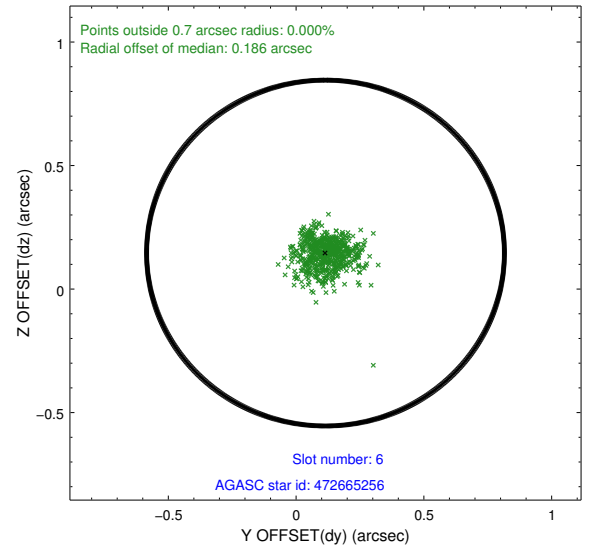
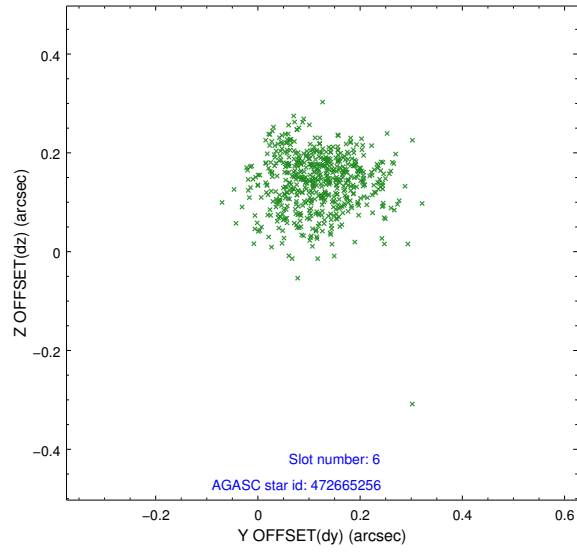
## 2.4.2 Slot 4



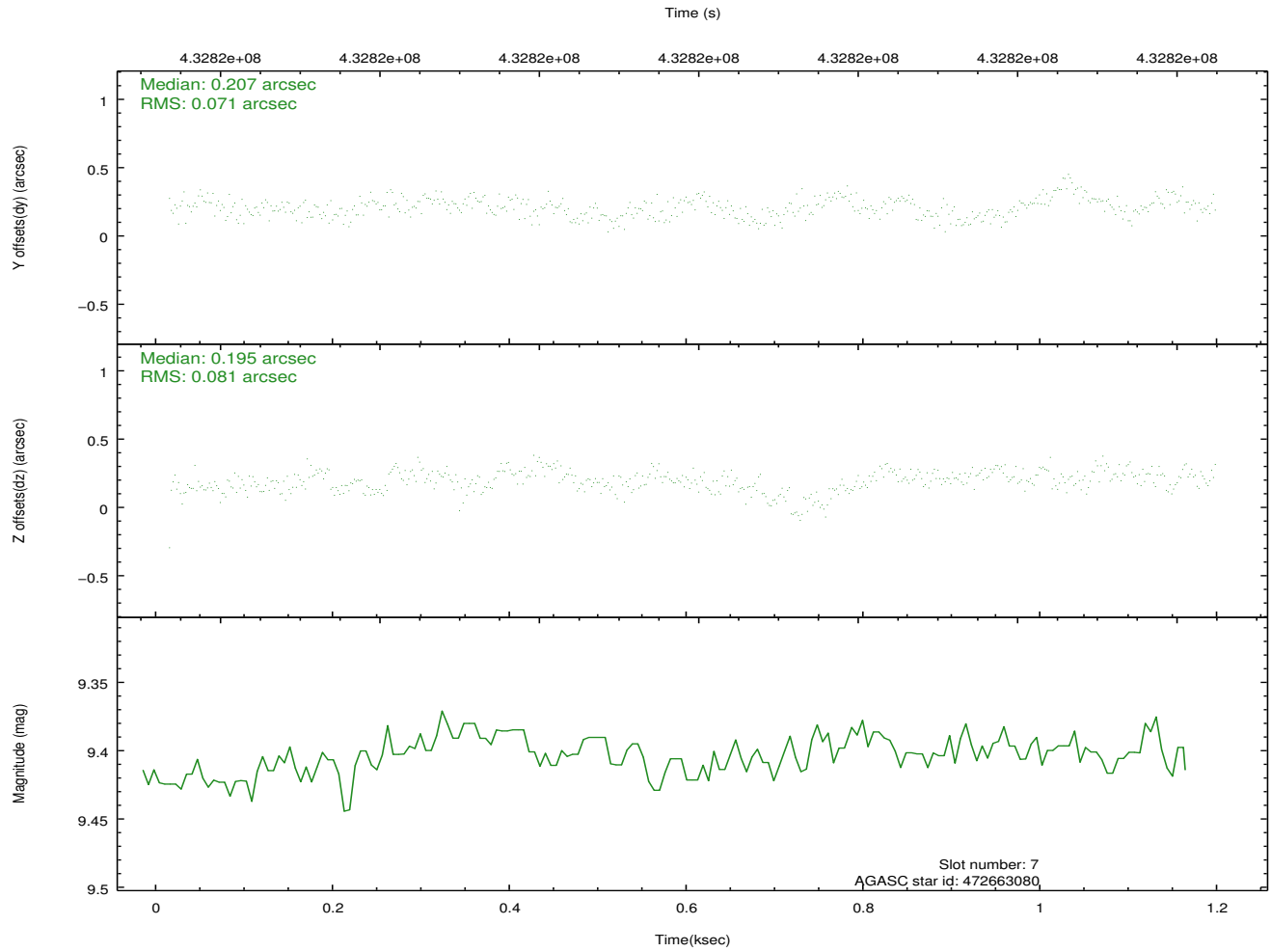
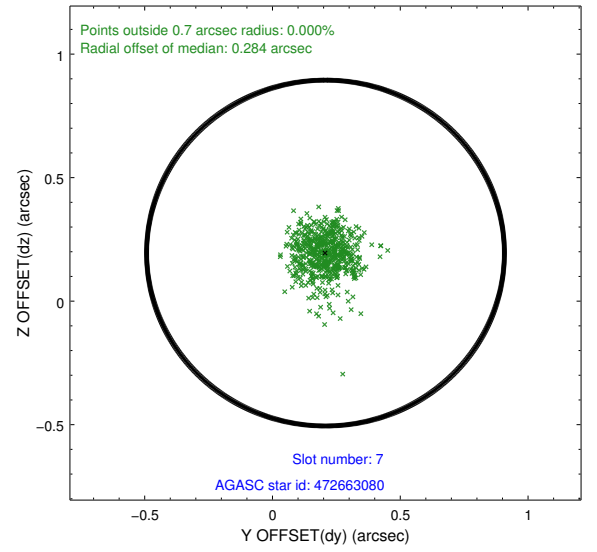
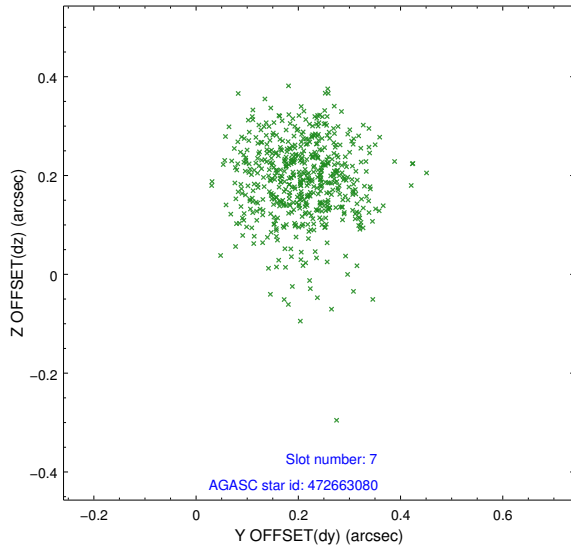
### 2.4.3 Slot 5



## 2.4.4 Slot 6

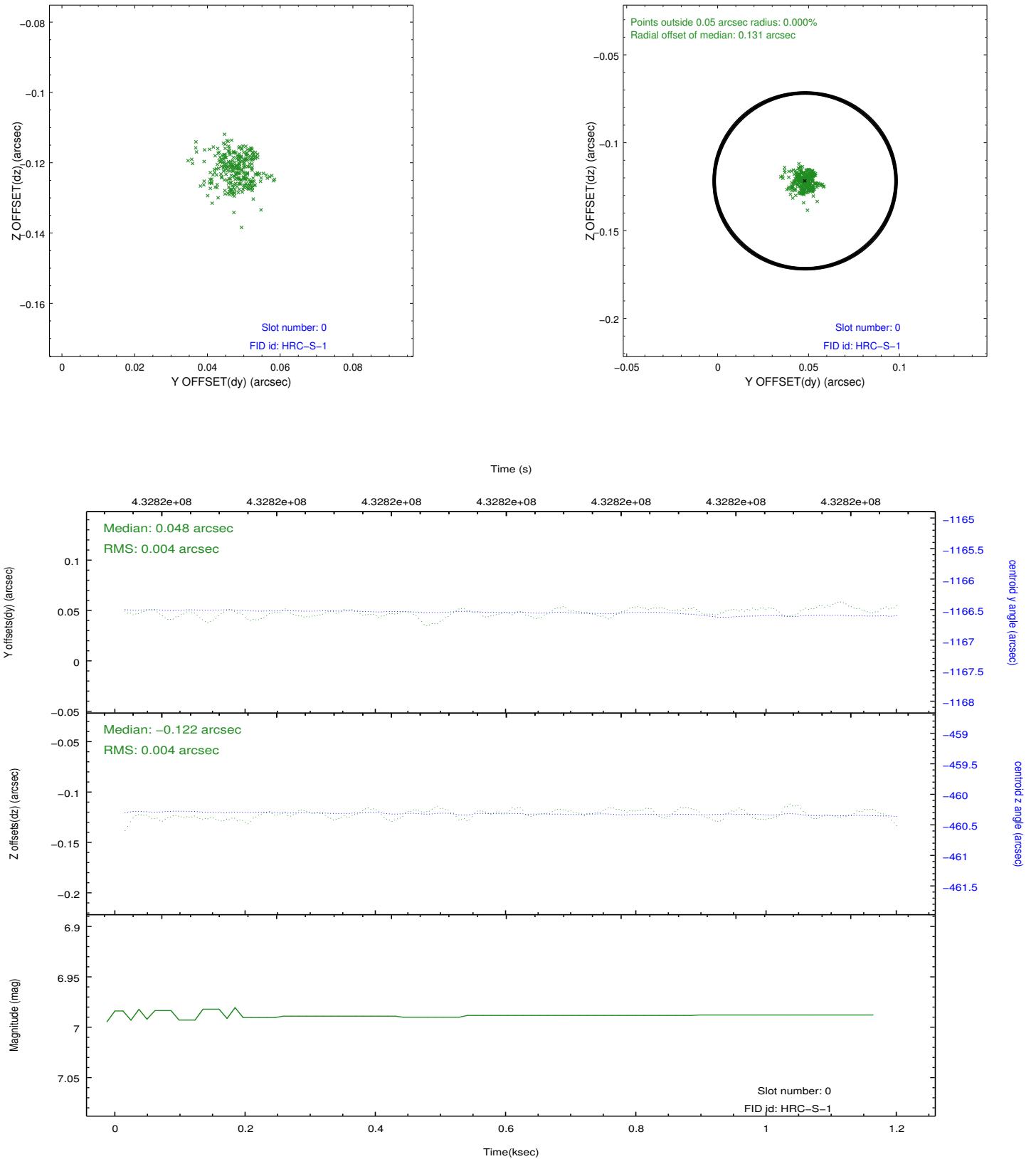


## 2.4.5 Slot 7

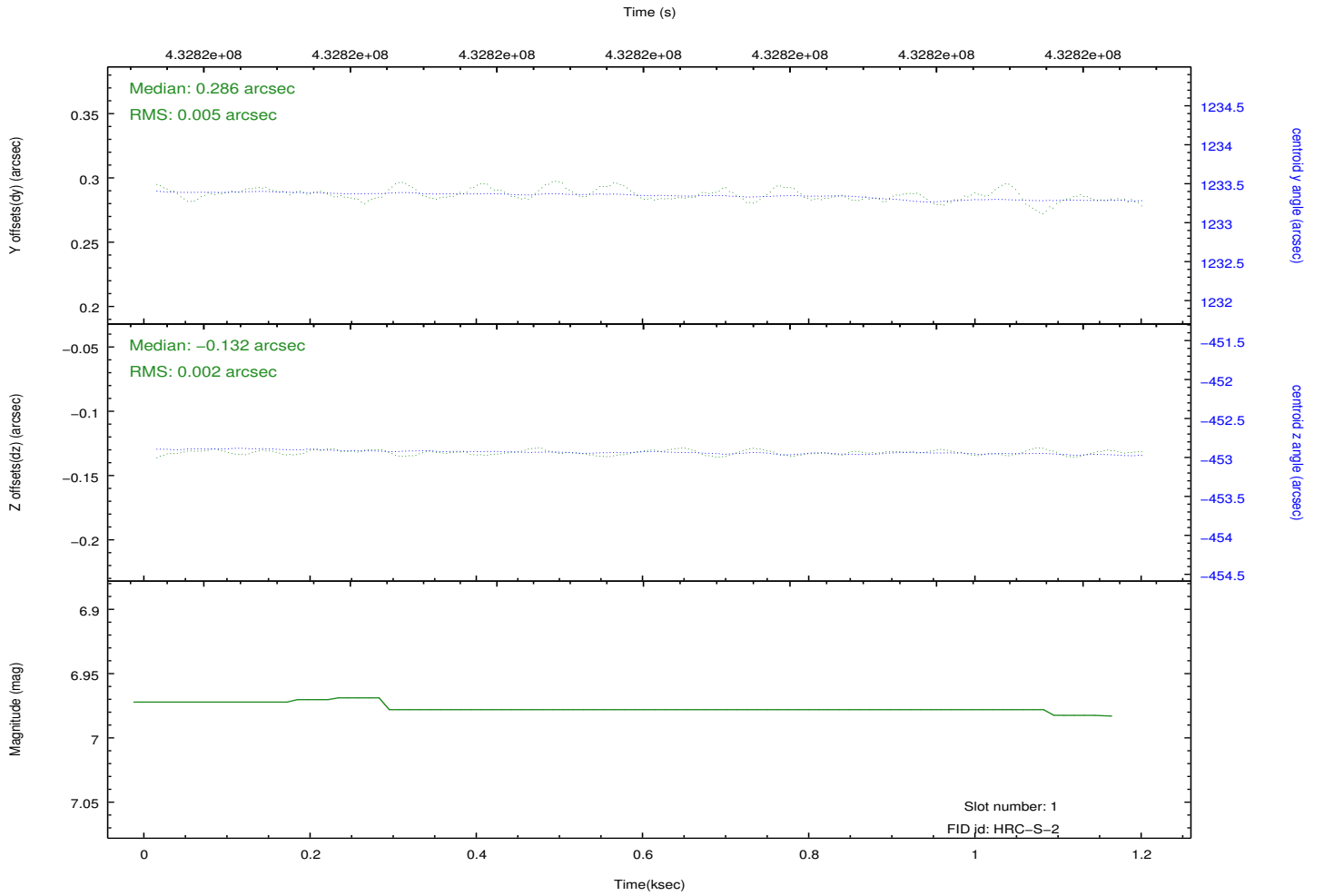
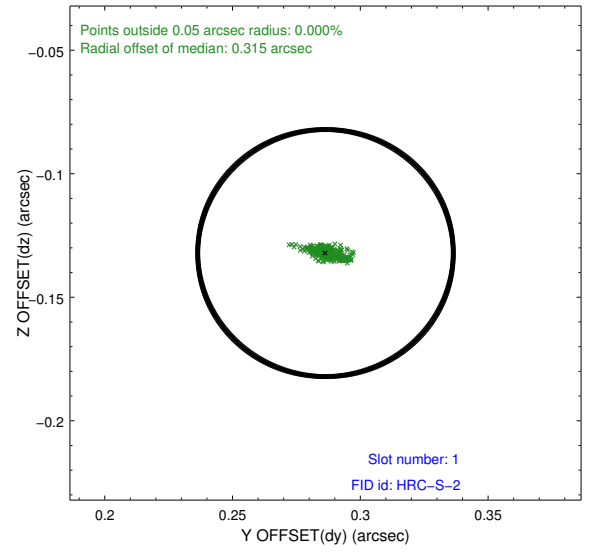
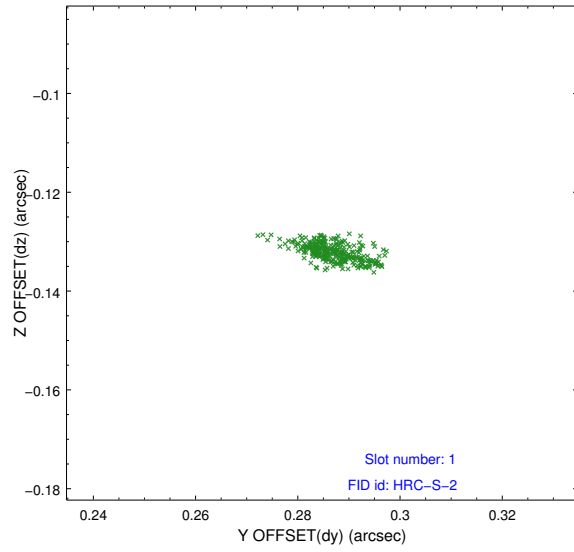


## 2.5 FID Slots

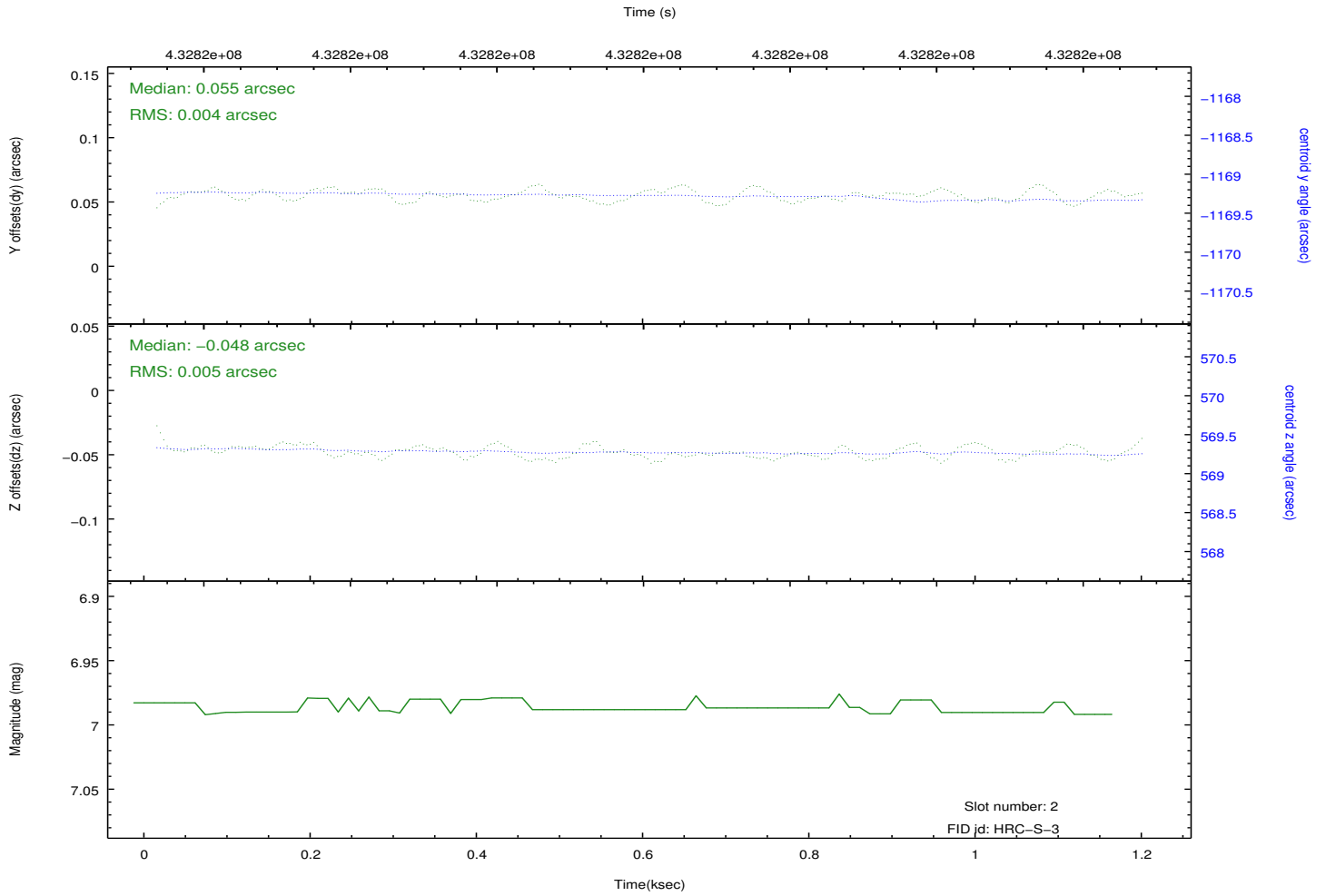
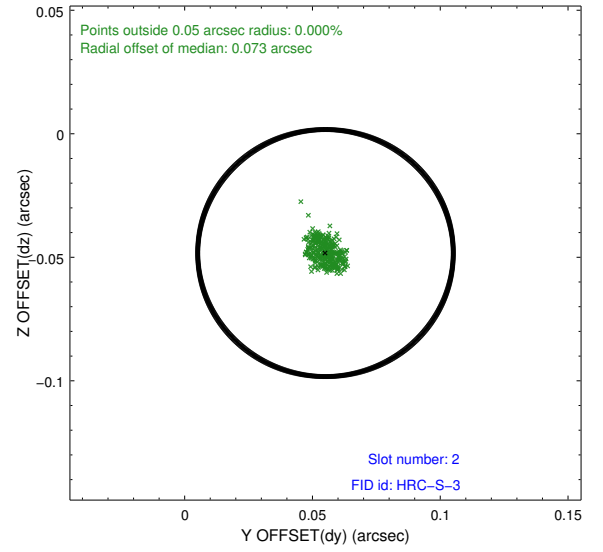
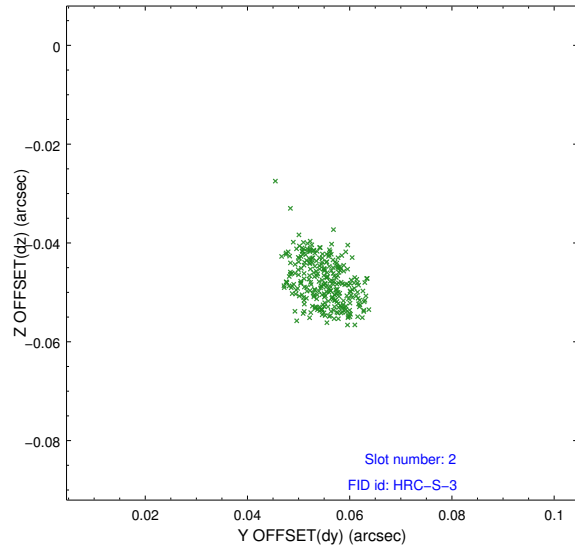
### 2.5.1 Slot 0



## 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)	2012.08.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1554313105941

### A.2 Comments