

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10613 - L2 Version 3  
Chandra X-Ray Center

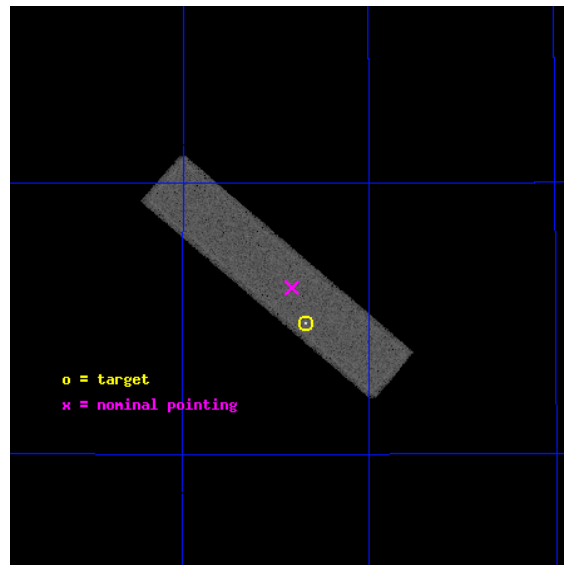
L2 Processing Date : Aug 13 2012

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# 1 Front

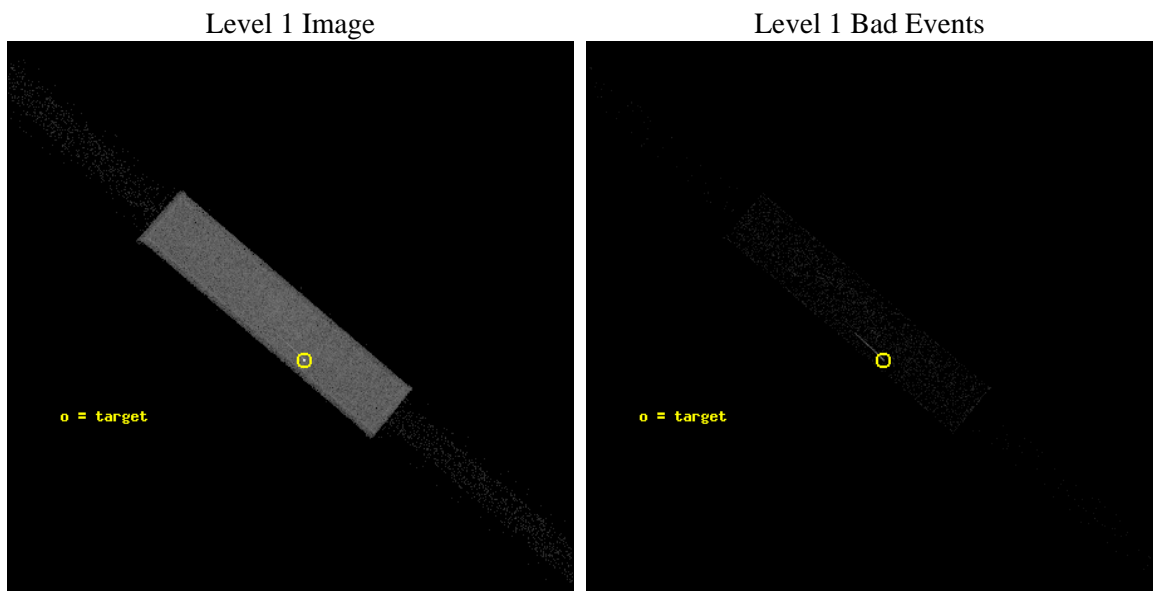
seq_num	290849	Sequence number
obs_id	10613	Observation id
title	AO-10 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.20663061312	Nominal RA [deg]
dec_nom	45.807779937694	Nominal Dec [deg]
roll_nom	220.25270003563	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1188.2313097119	[s]
livetime	1176.7168213735	Ontime multiplied by DTCOR
l2events	83342	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	1188.2313097119	[s]
caldbver	4.5.1.1	&#160	l1events	126313	Number of level 1 events
date	2012-08-13T16:26:37	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

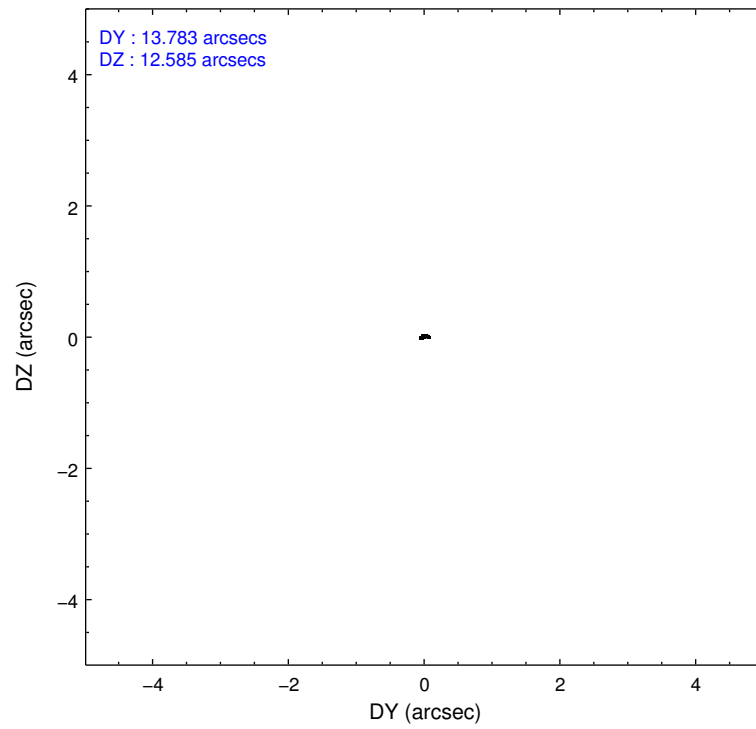
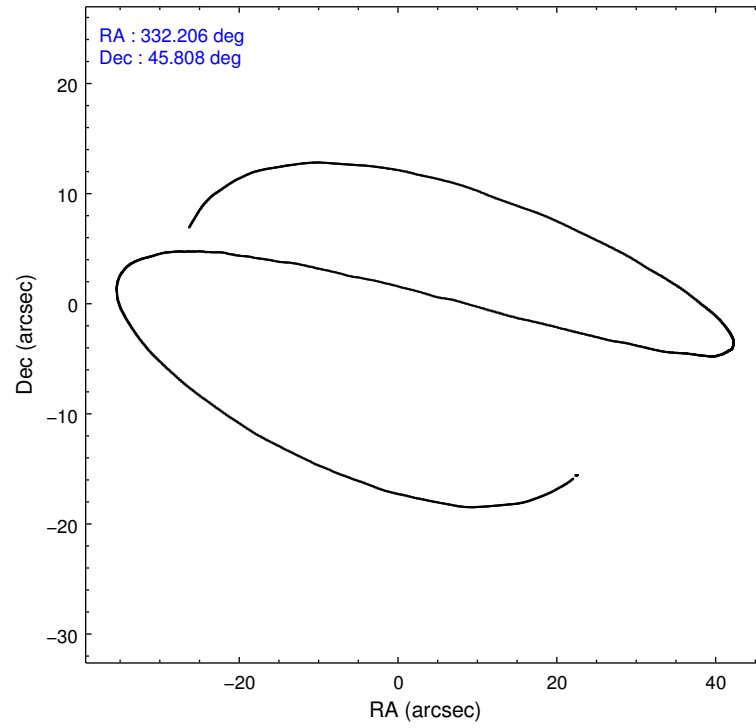
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1146	124042	1125
rejected events	1146	25251	1125
rejected %	100%	20%	100%

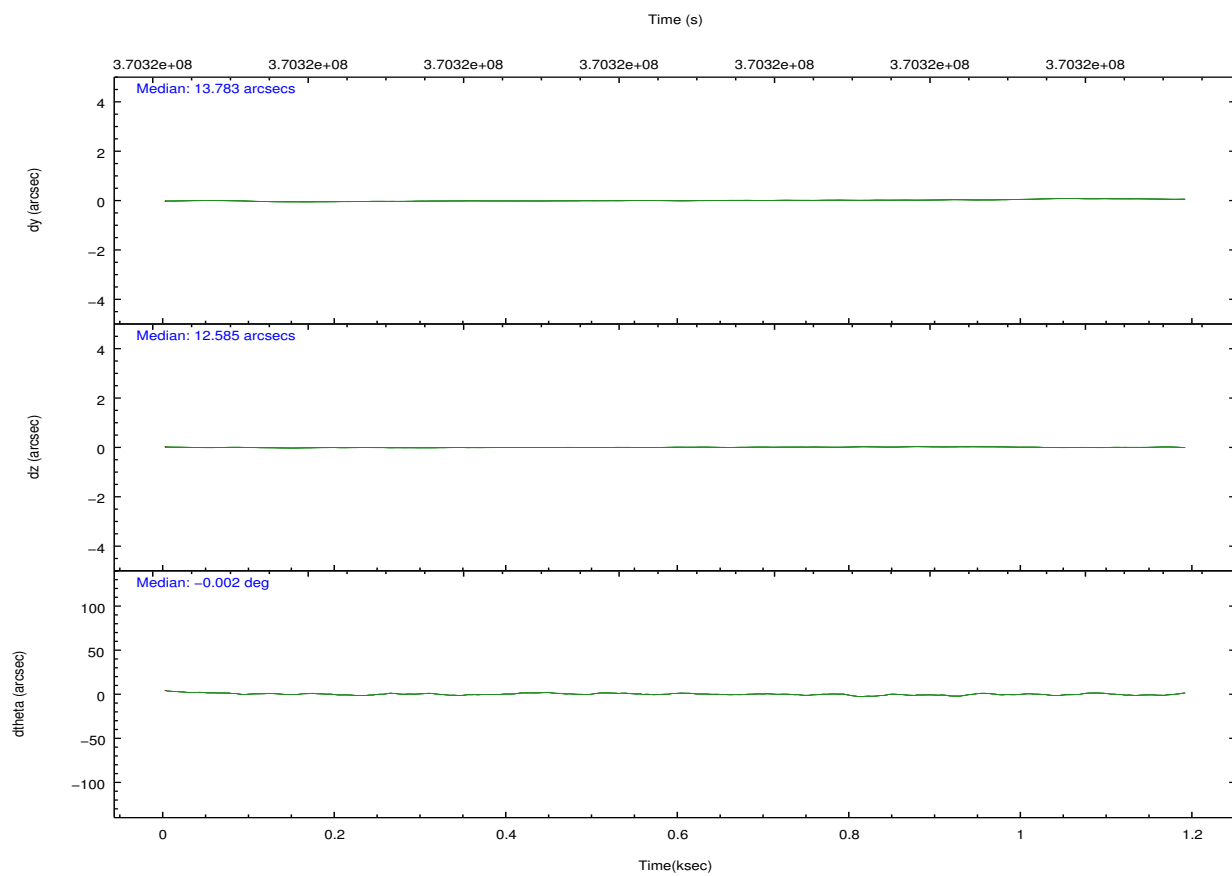
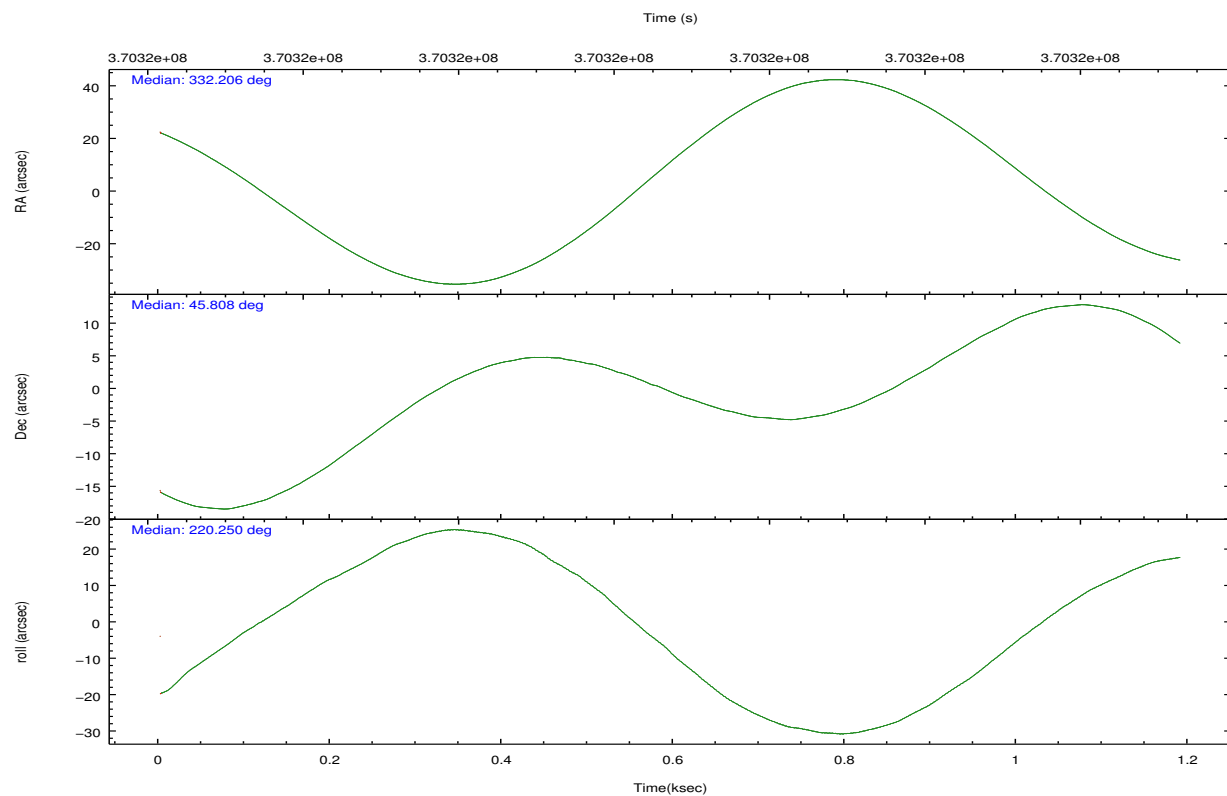
## 2.2 Compared Parameters

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	332.218864	332.2066306131238
[deg] Pointing Dec	45.835237	45.80777993769367
[deg] Pointing Roll	220.176604	220.252700035632
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	370323873.184000	370323496.98989
Observation start date	2009-09-26T03:43:27	2009-09-26T03:38:16
[s] Observation end time (MET)	370324873.184000	370325006.81497
Observation end date	2009-09-26T04:00:07	2009-09-26T04:03:26

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

## 2.3 Aspect





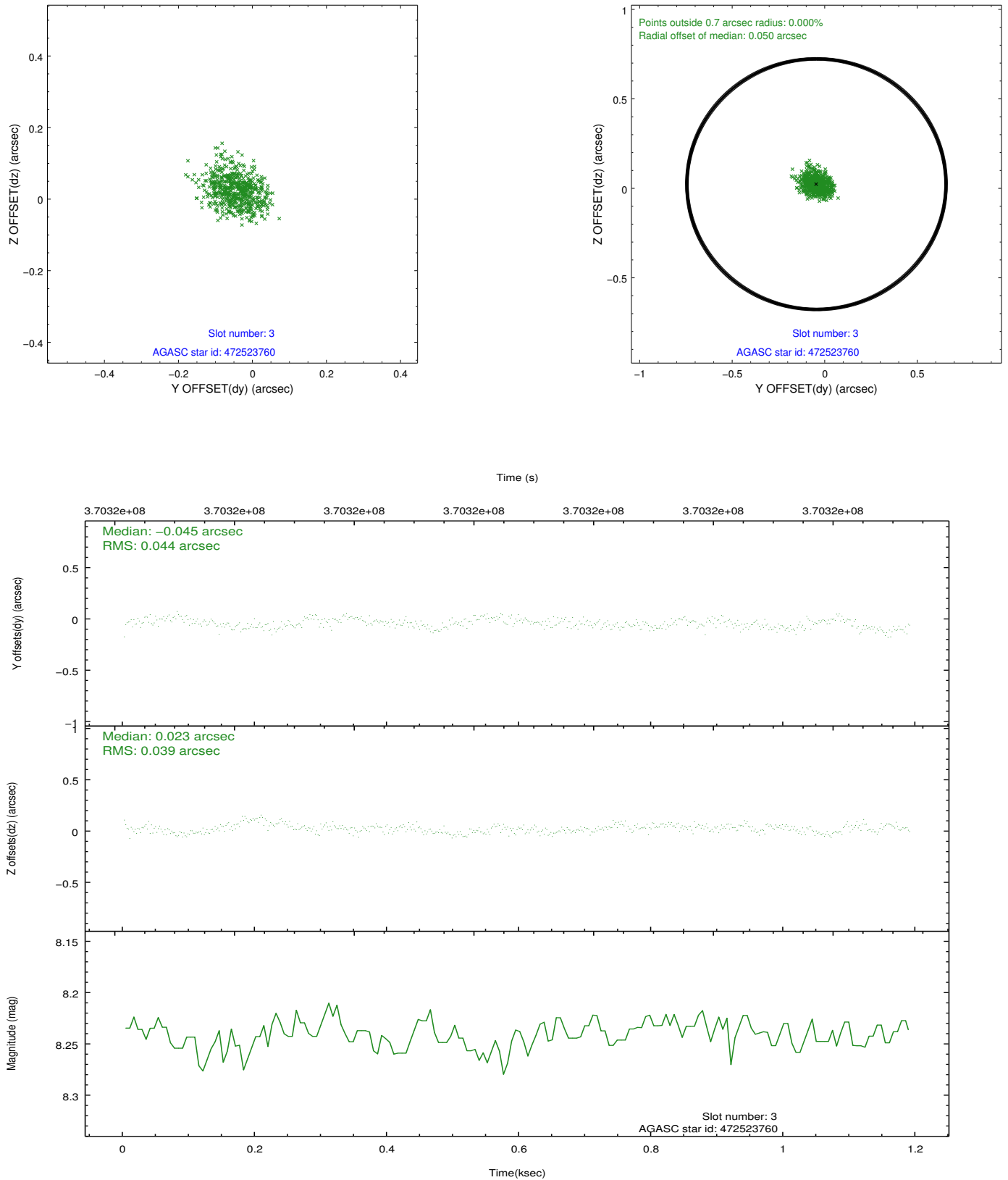
### Slot Statistics

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	291	0.012	-0.148	0.004	0.009	0.000000	0.000000	-1168.24	-461.32
1	FID	HRC-S-2	6.98	291	0.149	-0.020	0.007	0.016	0.000000	0.000000	1227.54	-455.48
2	FID	HRC-S-4	6.91	291	0.242	-0.135	0.007	0.015	0.000000	0.000000	1234.47	569.15
3	GUIDE	472523760	8.24	581	-0.045	0.023	0.065	0.100	331.645363	45.403260	2107.46	249.93
4	GUIDE	472533912	9.15	581	0.097	0.117	0.114	0.180	331.791136	46.368695	-425.25	-2153.72
5	GUIDE	472651904	6.09	581	-0.178	-0.241	0.087	0.129	332.170077	45.742257	308.64	172.78
6	GUIDE	472655152	9.43	581	-0.009	-0.030	0.116	0.197	332.504239	45.862991	-611.49	385.34
7	GUIDE	472663080	9.42	579	0.138	0.142	0.094	0.169	332.652741	46.473840	-2307.93	-1063.45

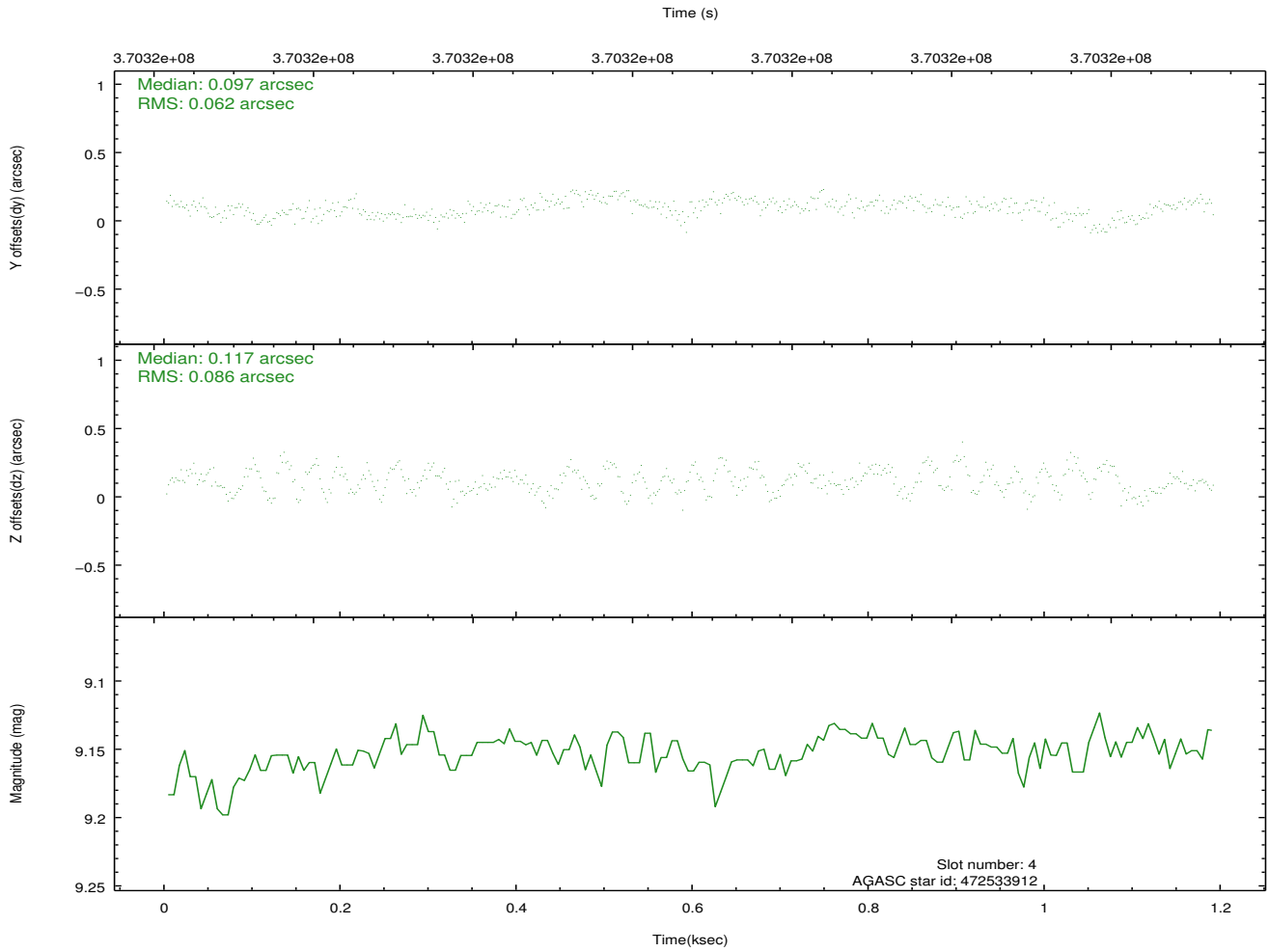
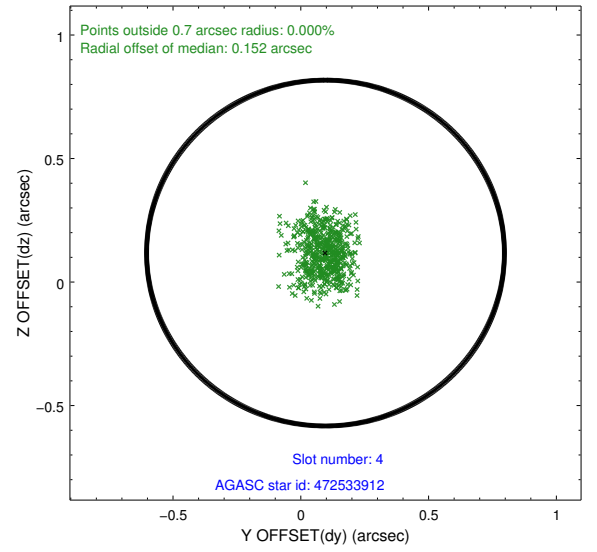
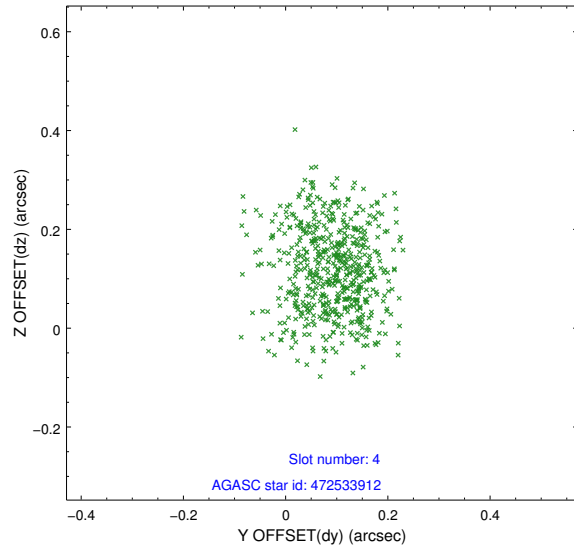


## 2.4 Star Slots

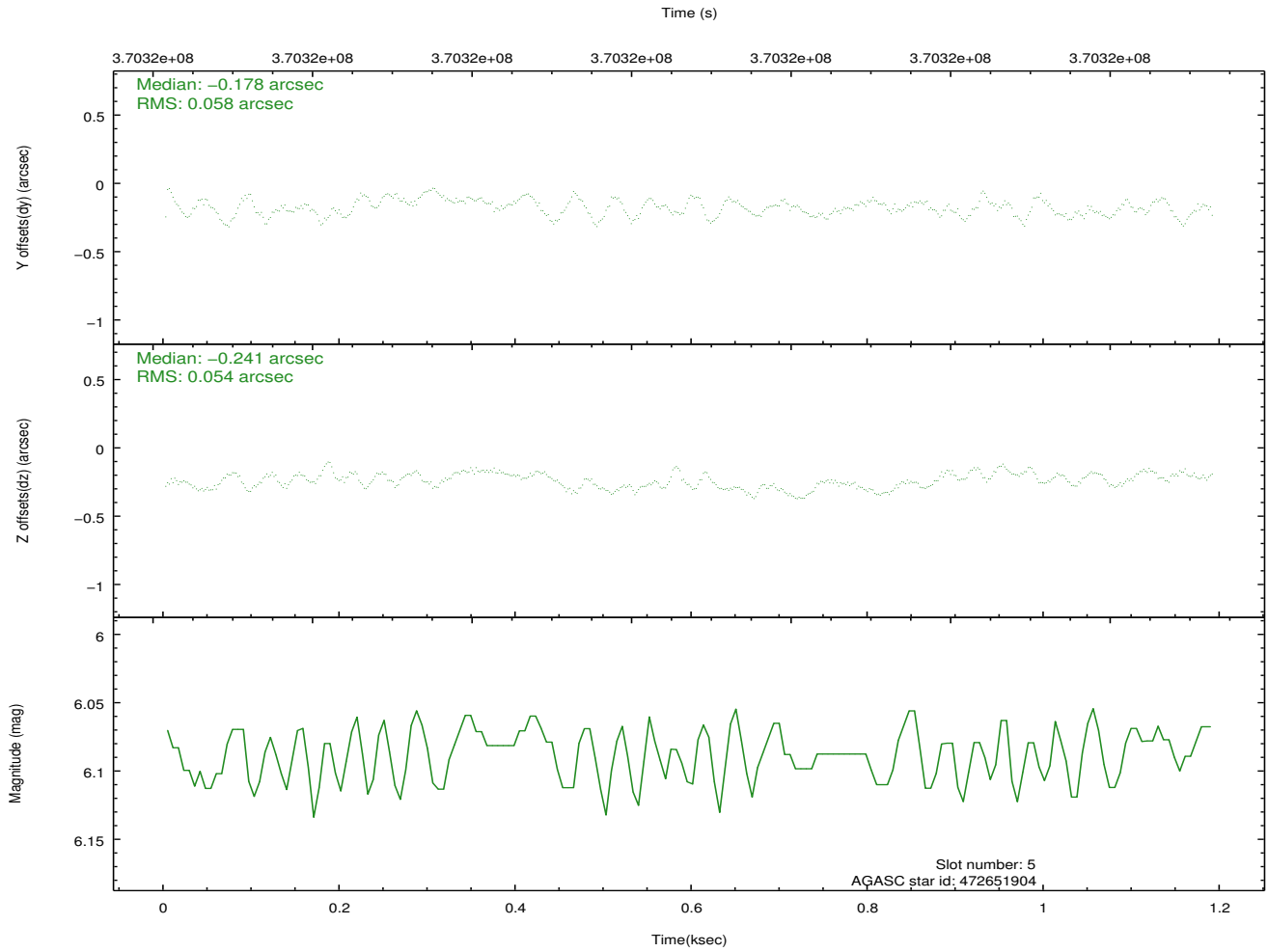
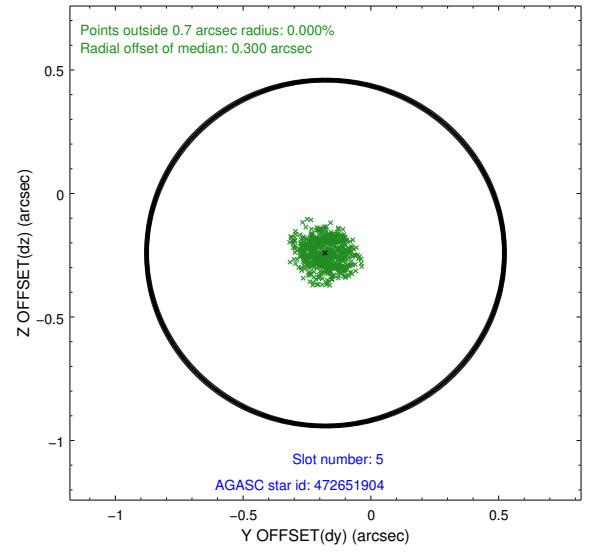
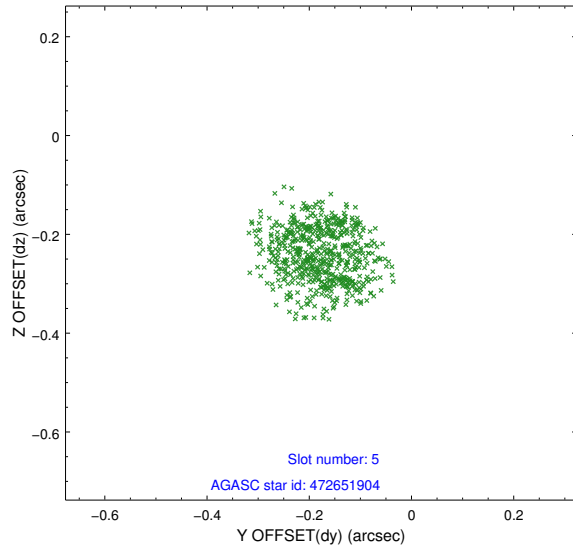
### 2.4.1 Slot 3



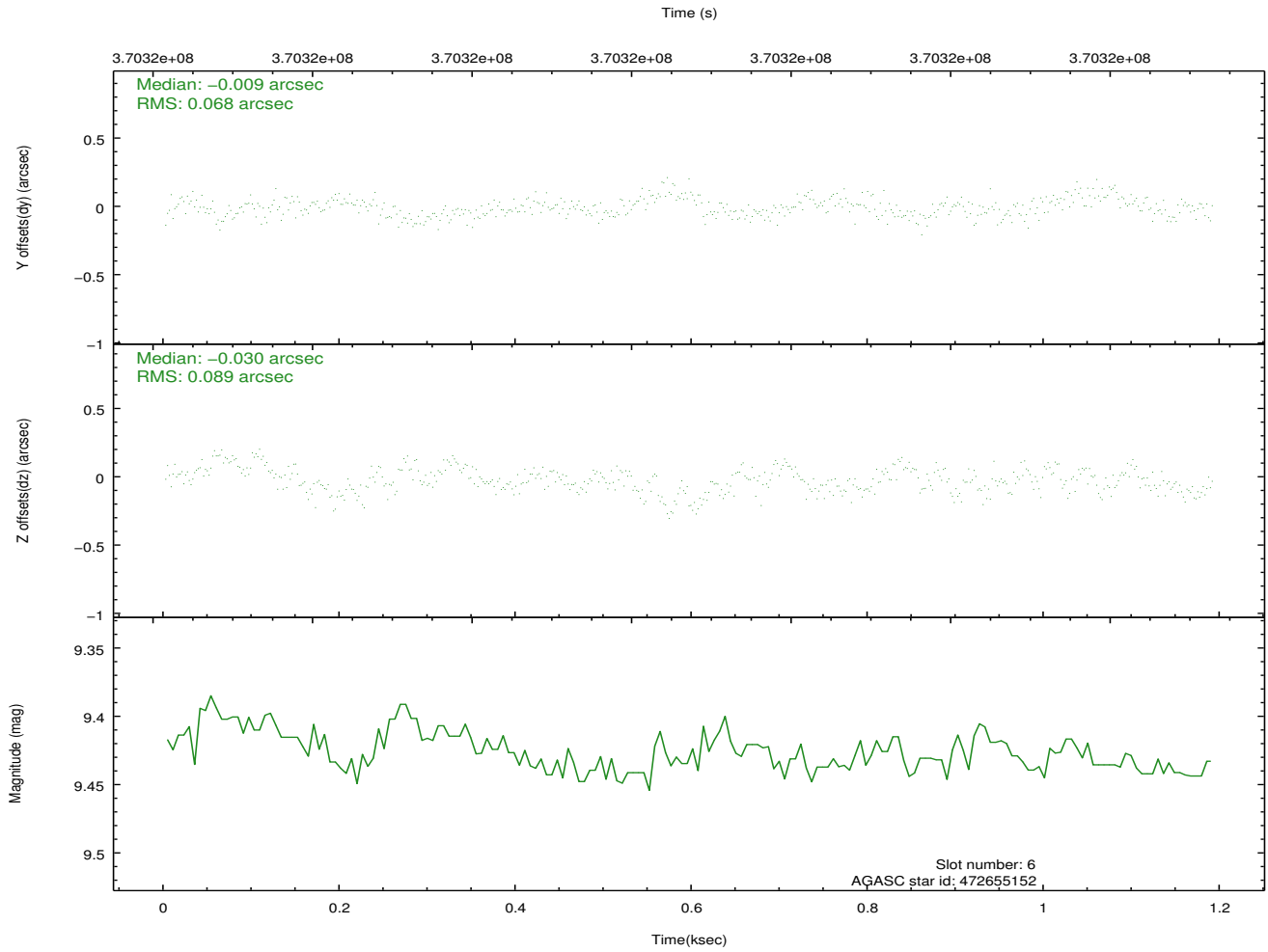
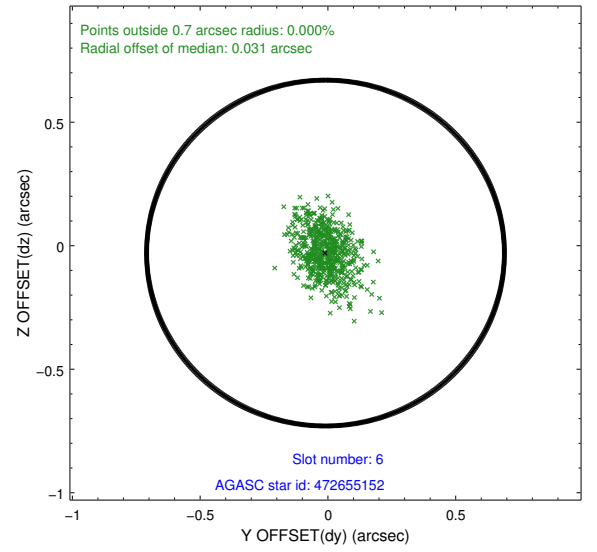
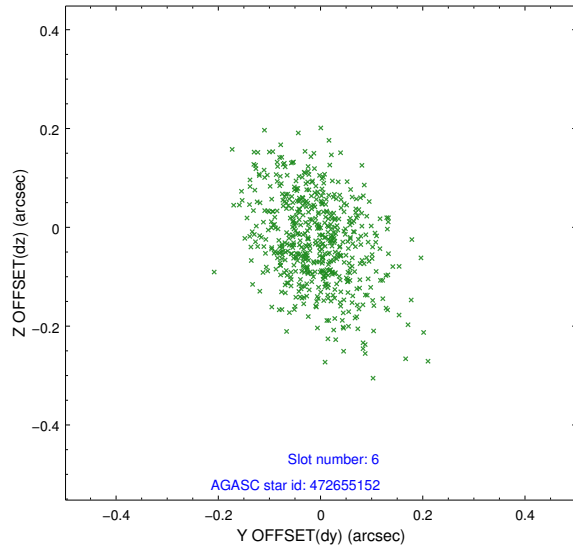
## 2.4.2 Slot 4



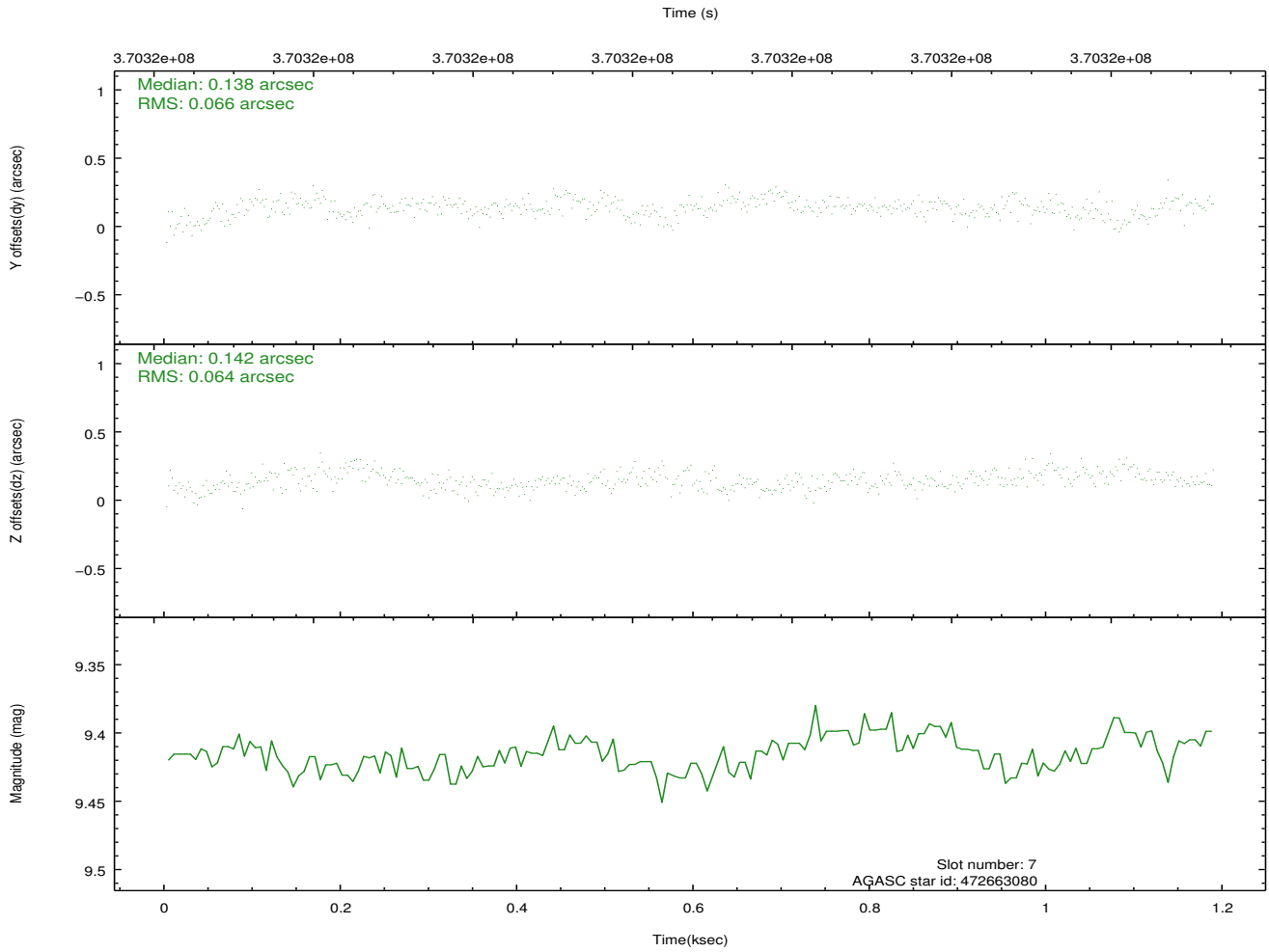
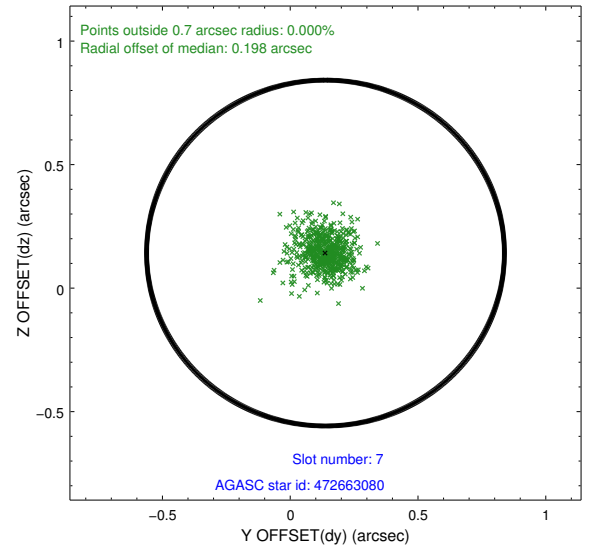
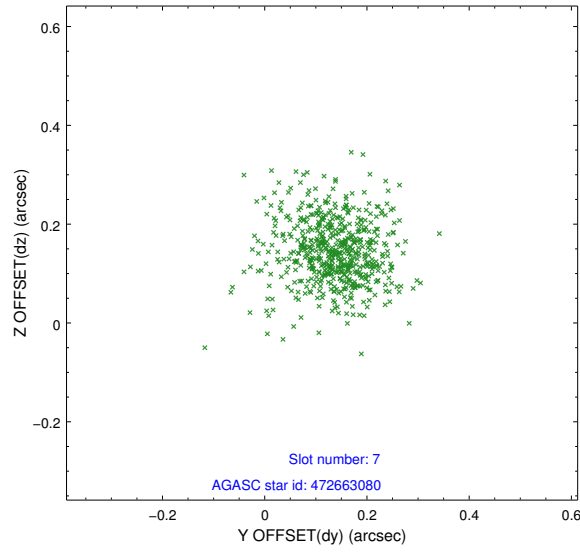
### 2.4.3 Slot 5



## 2.4.4 Slot 6

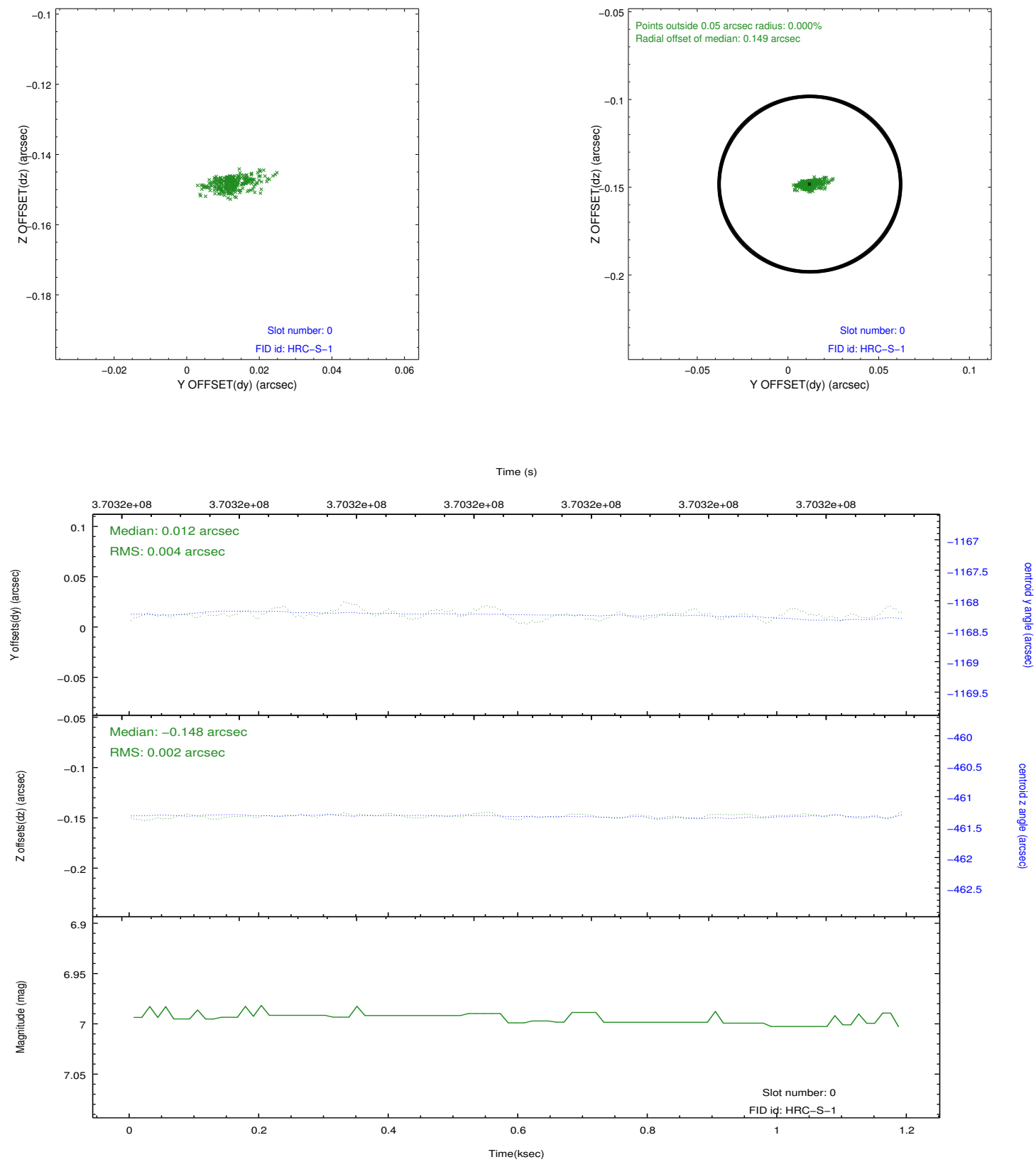


## 2.4.5 Slot 7

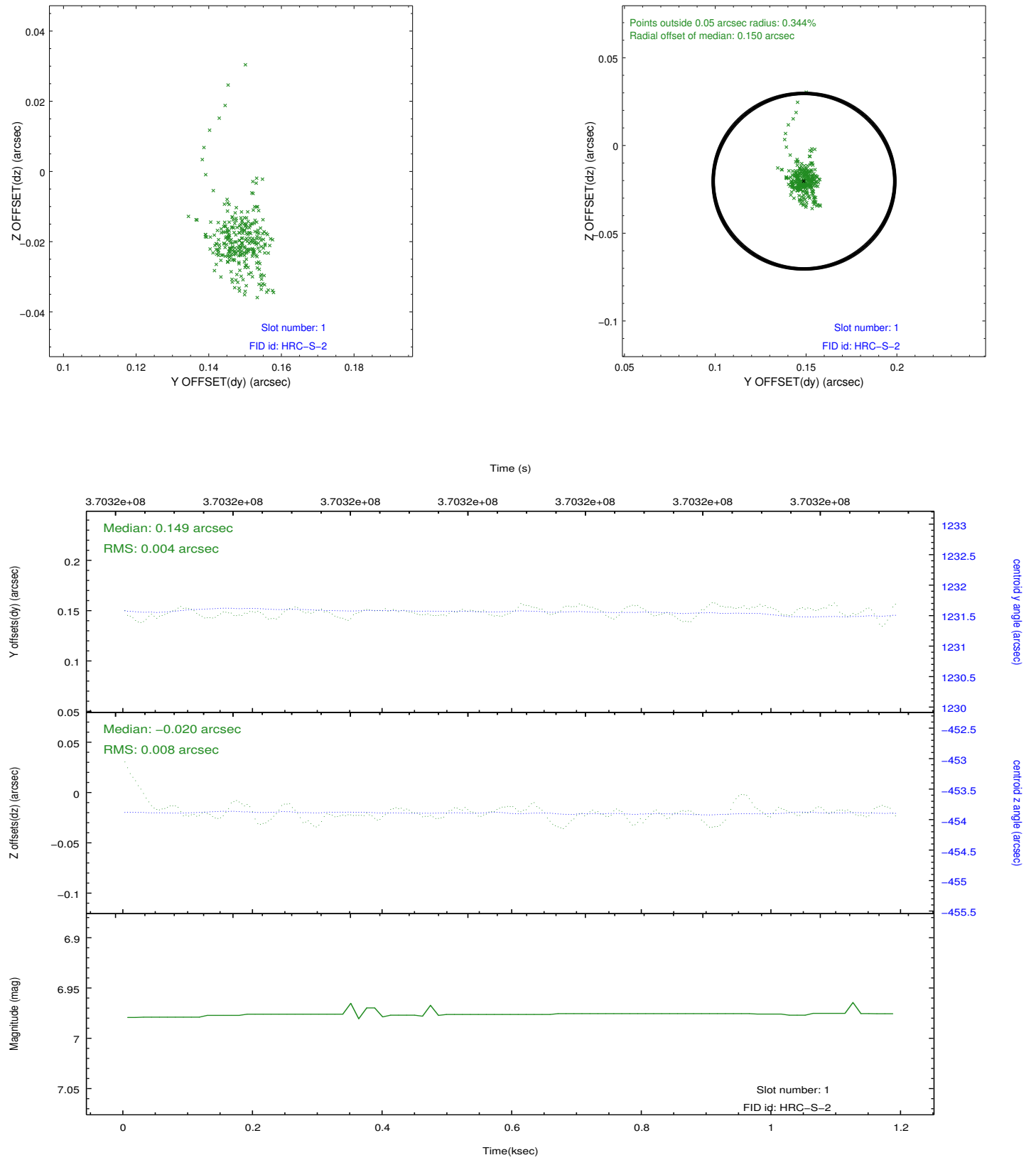


# 2.5 FID Slots

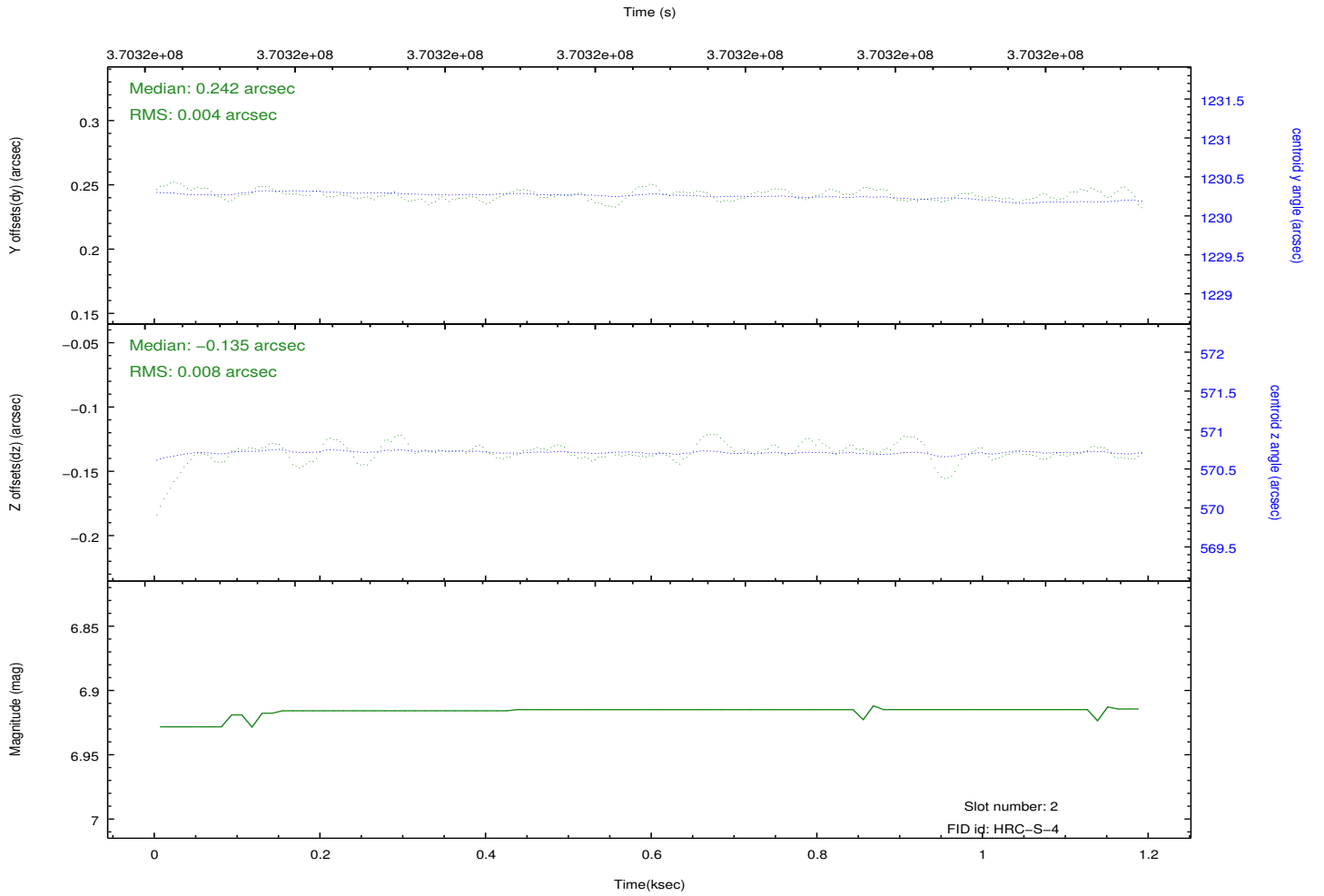
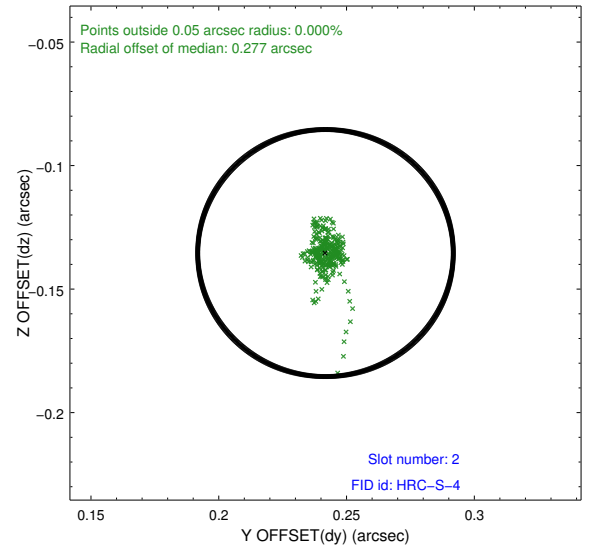
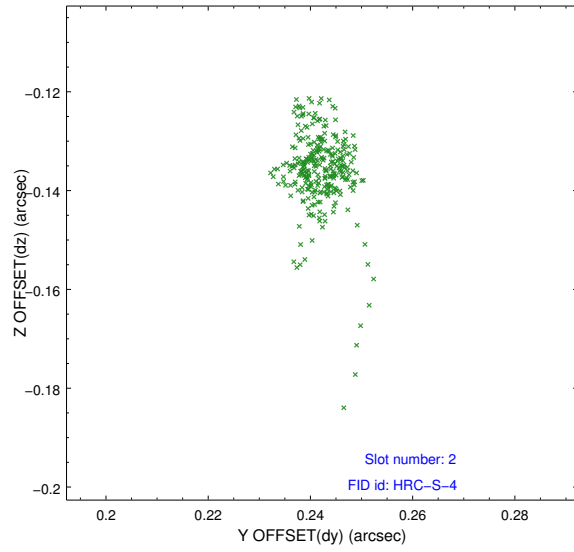
## 2.5.1 Slot 0



## 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)	2012.08.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1882313095331

### A.2 Comments