

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13075 - L2 Version 4  
Chandra X-Ray Center

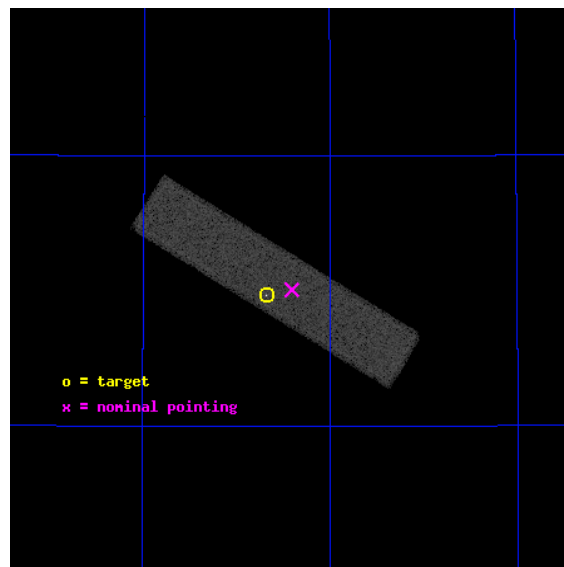
L2 Processing Date : Aug 9 2012

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# 1 Front

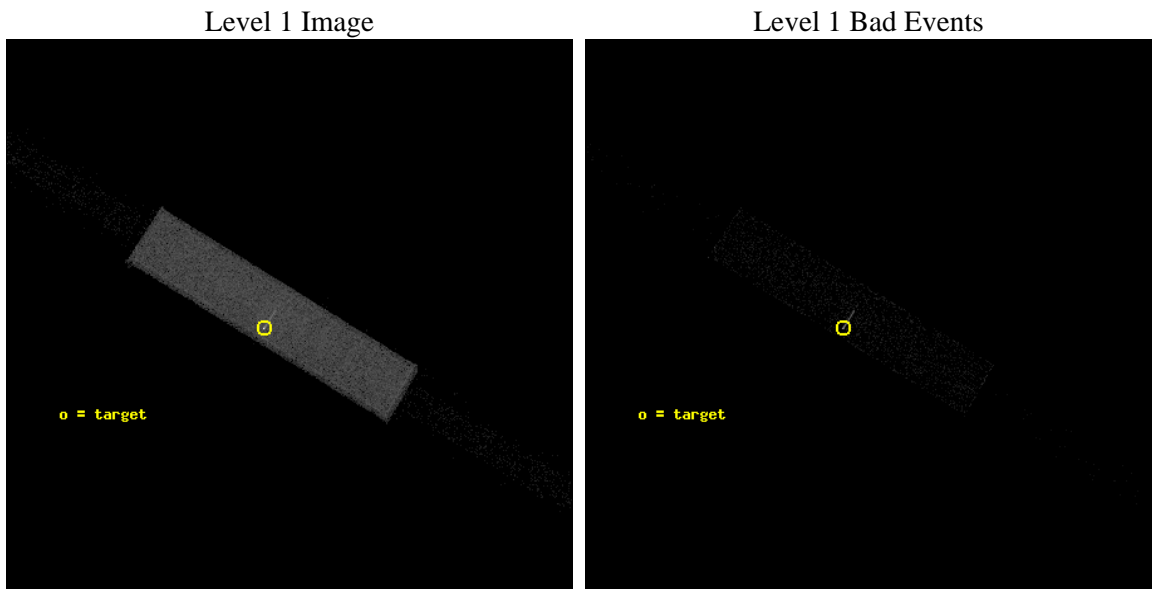
seq_num	290994	Sequence number
obs_id	13075	Observation id
title	AO-12 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.1017964297	Nominal RA [deg]
dec_nom	45.752643117061	Nominal Dec [deg]
roll_nom	211.41015509721	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1159.5313108563	[s]
livetime	1151.2954273003	Ontime multiplied by DTCOR
l2events	61258	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	1159.5313108563	[s]
caldbver	4.5.1.1	&#160	l1events	94628	Number of level 1 events
date	2012-08-10T01:50:17	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

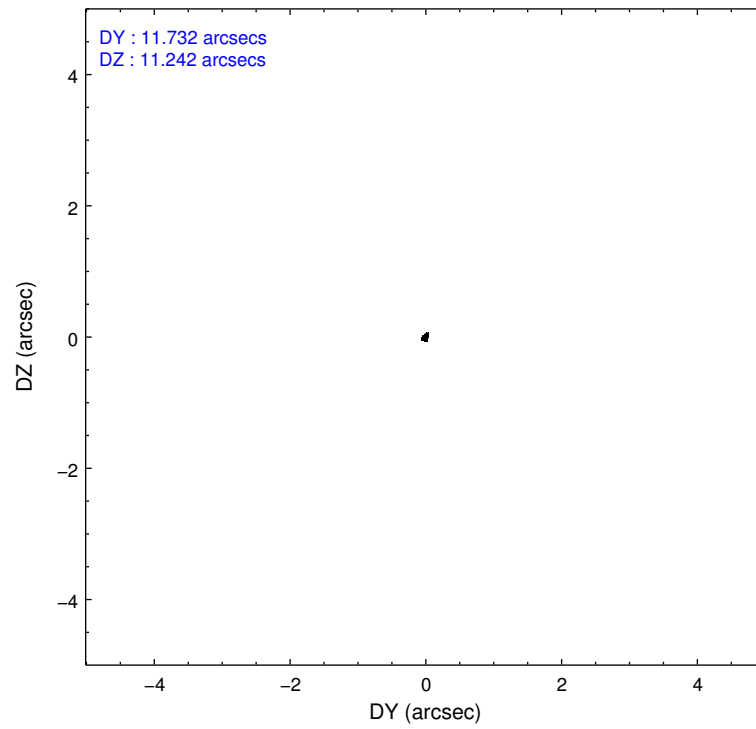
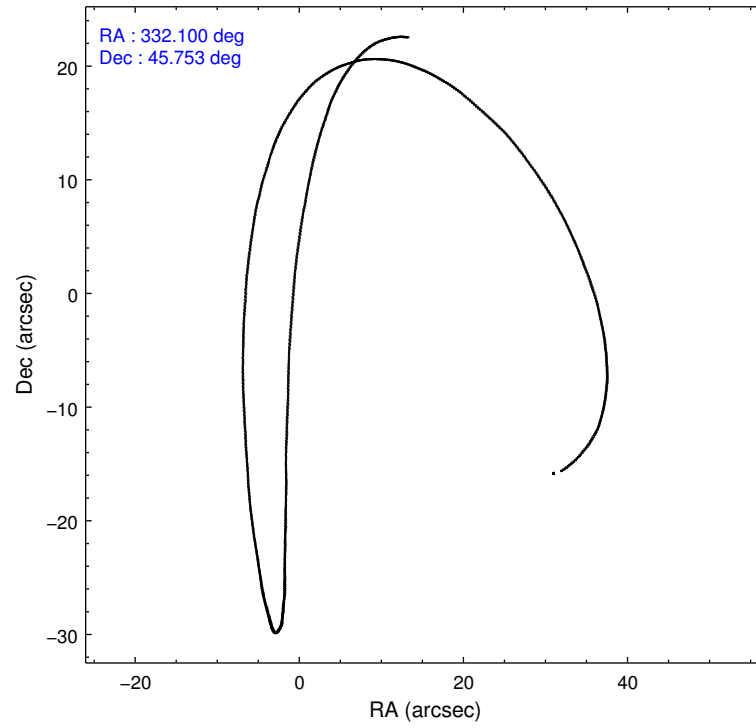
Level 1 Events

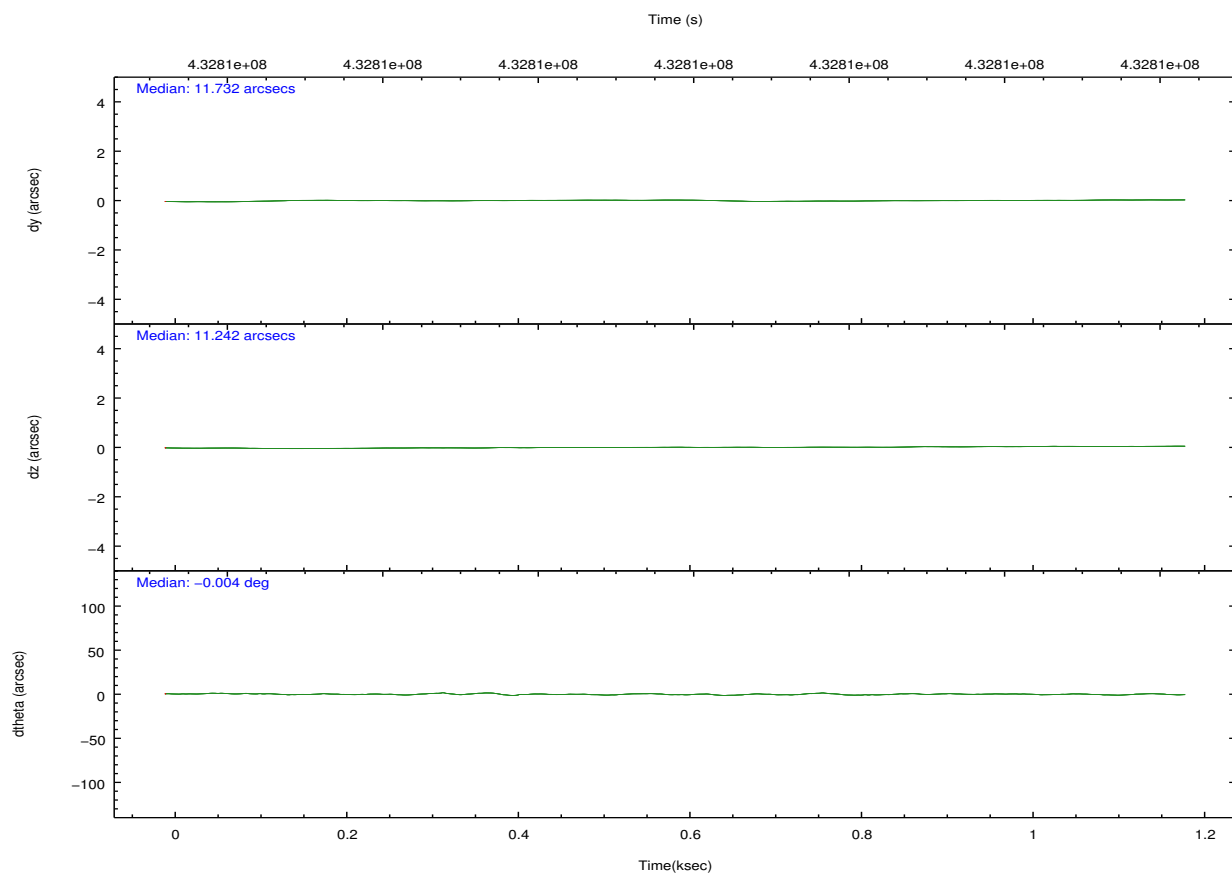
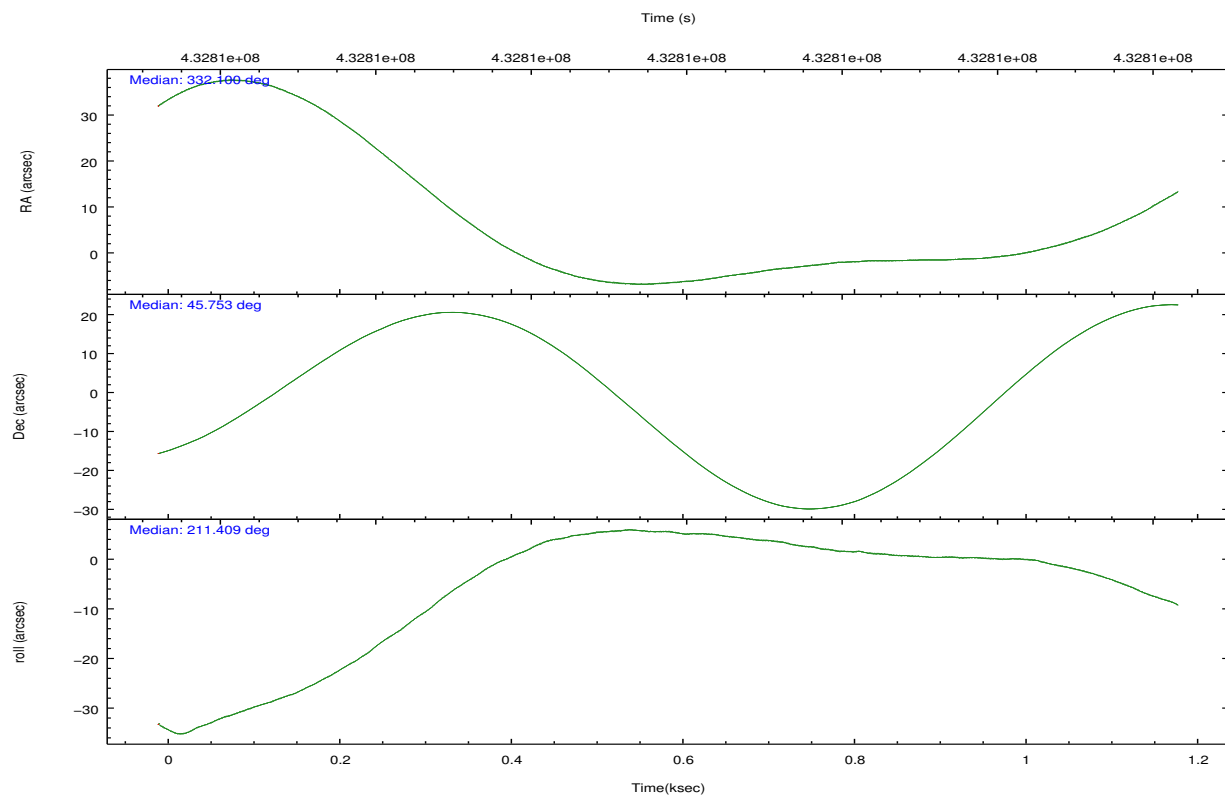
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	882	92885	861
rejected events	882	20893	861
rejected %	100%	22%	100%

## 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	332.119411	332.1017964297035			
[deg] Pointing Dec	45.778186	45.75264311706088			
[deg] Pointing Roll	211.330205	211.4101550972099			
[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)	432812562.184000	432812186.1249			
Observation start date	2011-09-19T09:41:36	2011-09-19T09:36:26			
[s] Observation end time (MET)	432813562.184000	432813695.94998			
Observation end date	2011-09-19T09:58:16	2011-09-19T10:01:35			

## 2.3 Aspect





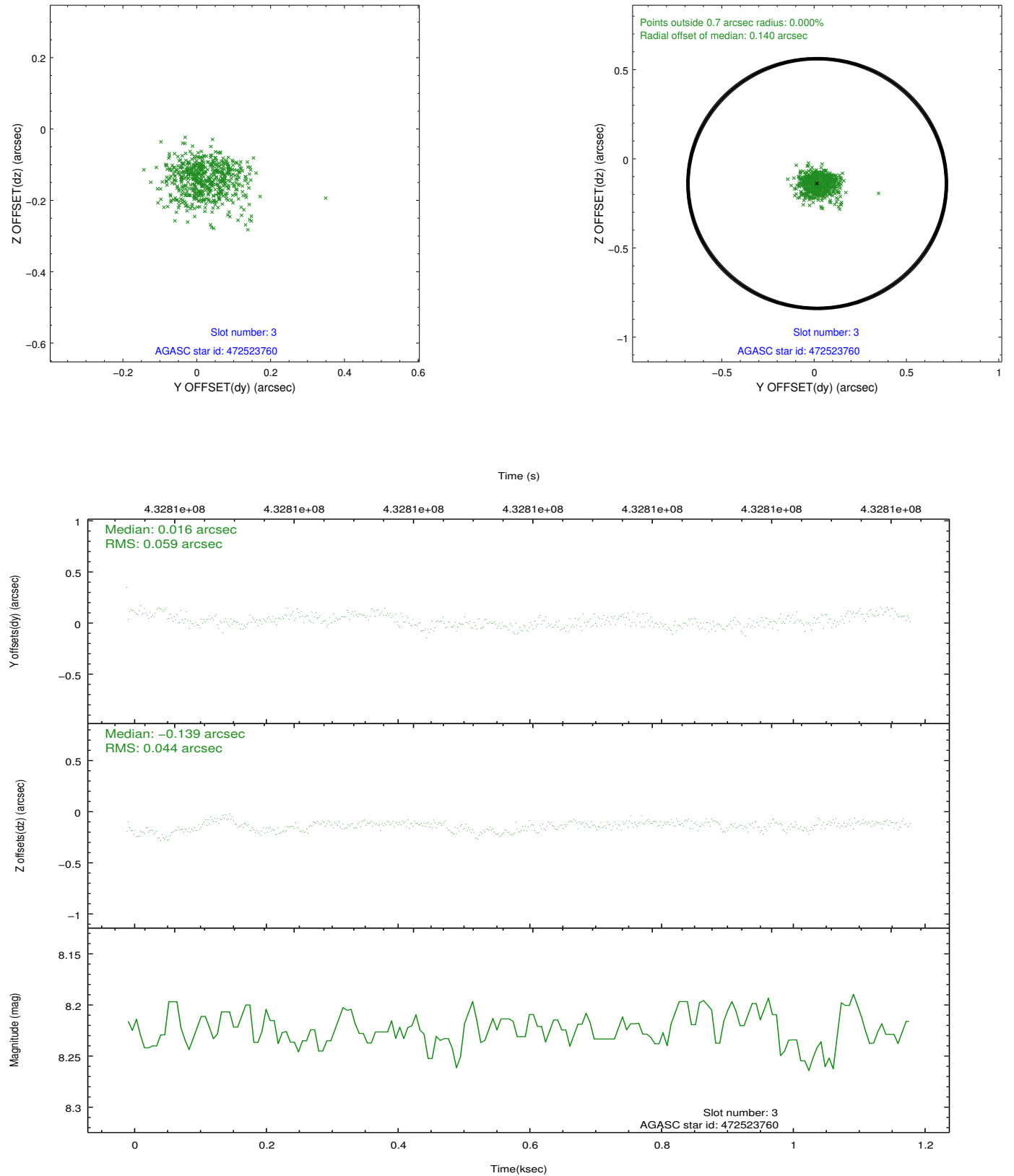
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.98	291	0.045	-0.136	0.007	0.014	0.000000	0.000000	-1166.07	-459.91
1	FID	HRC-S-2	6.97	291	0.290	-0.132	0.004	0.009	0.000000	0.000000	1229.82	-454.10
2	FID	HRC-S-3	6.98	291	0.056	-0.034	0.006	0.011	0.000000	0.000000	-1164.56	568.15
3	GUIDE	472523760	8.22	581	0.016	-0.139	0.076	0.129	331.645363	45.403260	1725.01	527.75
4	GUIDE	472525528	6.62	581	-0.389	0.012	0.084	0.133	331.551102	45.248694	2222.81	876.90
5	GUIDE	472533912	9.15	581	0.113	0.075	0.116	0.186	331.791136	46.368695	-404.24	-2238.81
6	GUIDE	472665256	9.01	581	0.189	0.250	0.092	0.143	332.808125	46.195041	-2249.22	-398.61
7	GUIDE	472655152	9.41	579	0.081	-0.181	0.115	0.189	332.504239	45.862991	-986.50	239.02

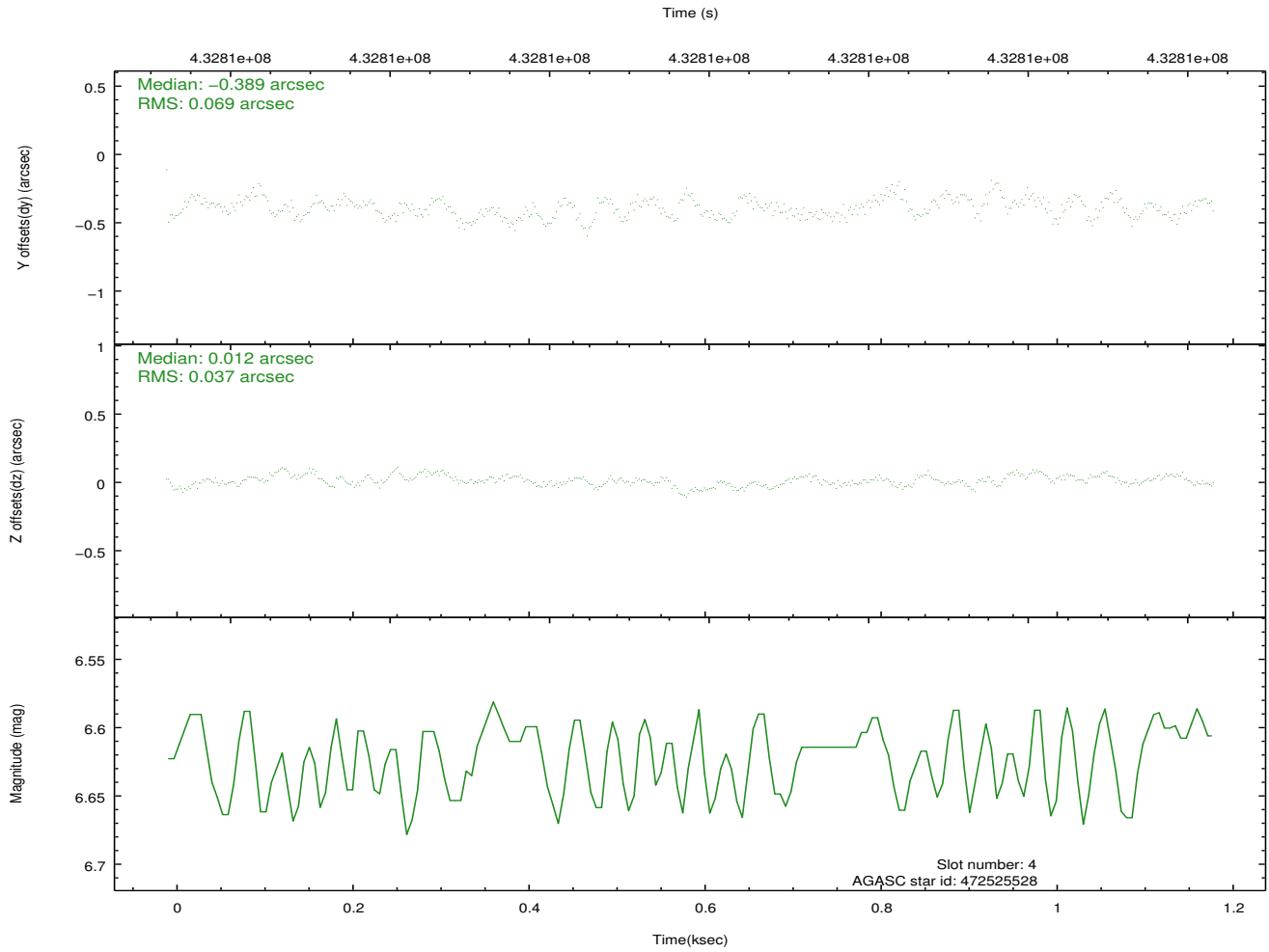
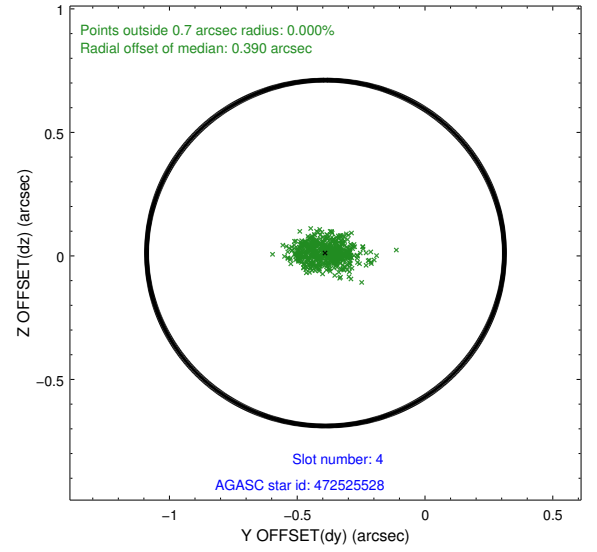
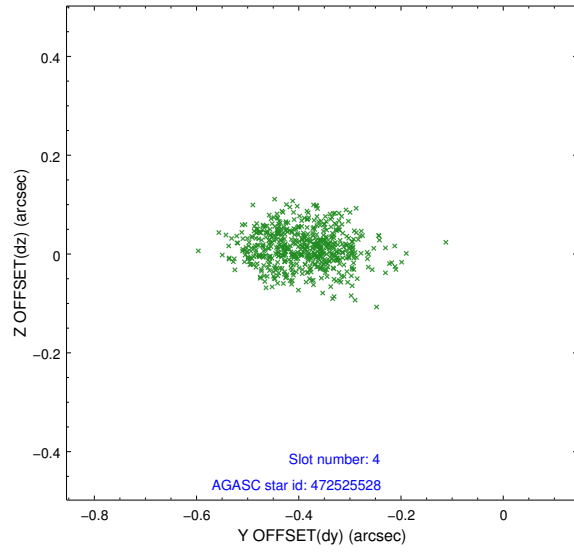


## 2.4 Star Slots

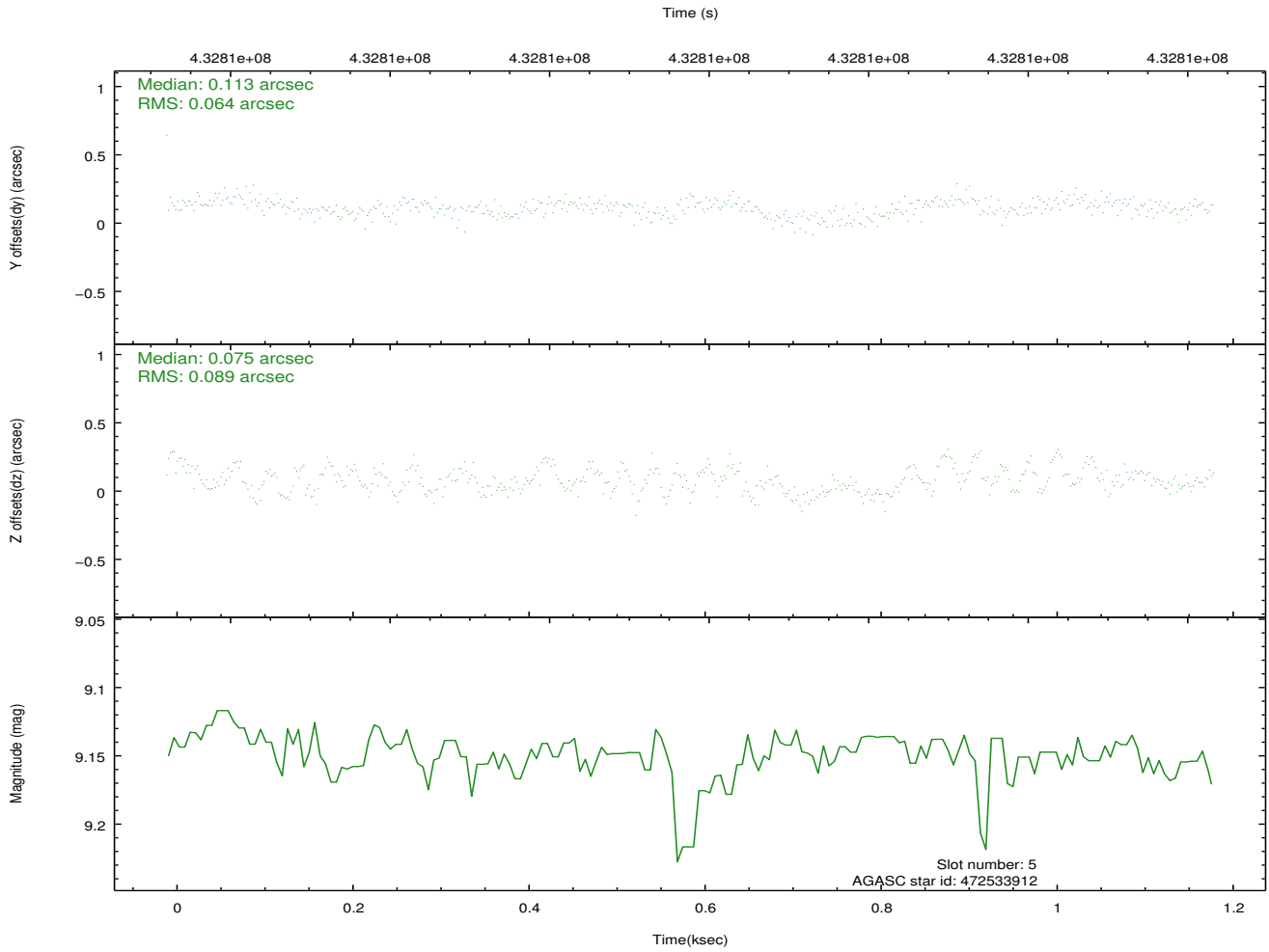
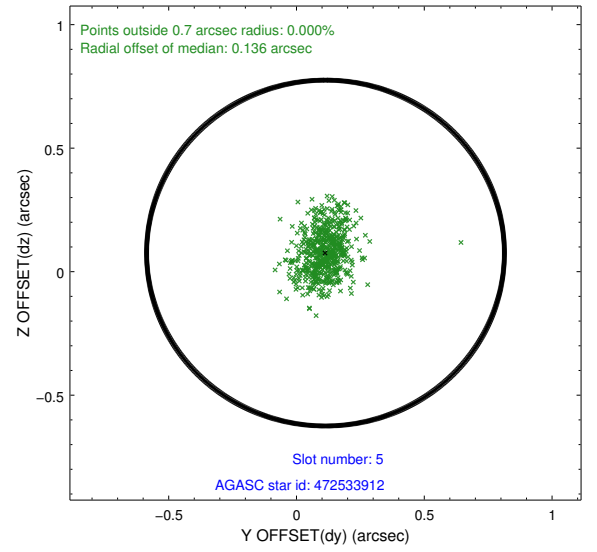
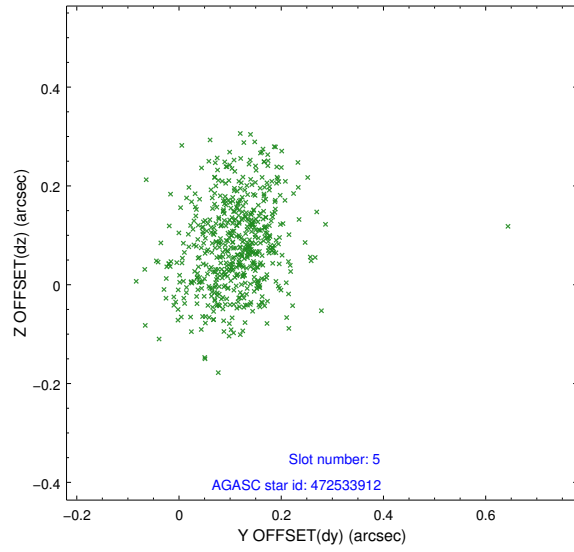
### 2.4.1 Slot 3



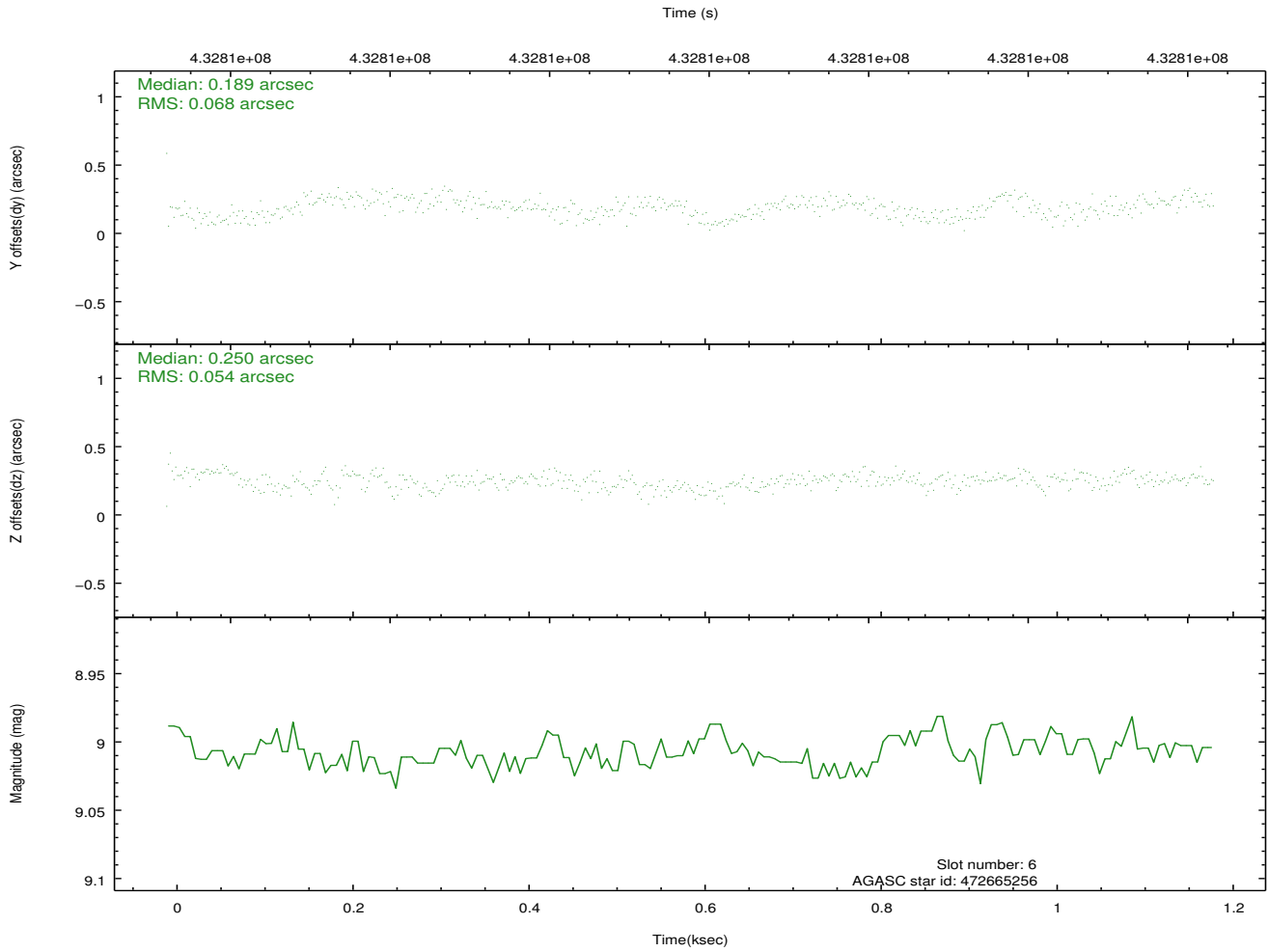
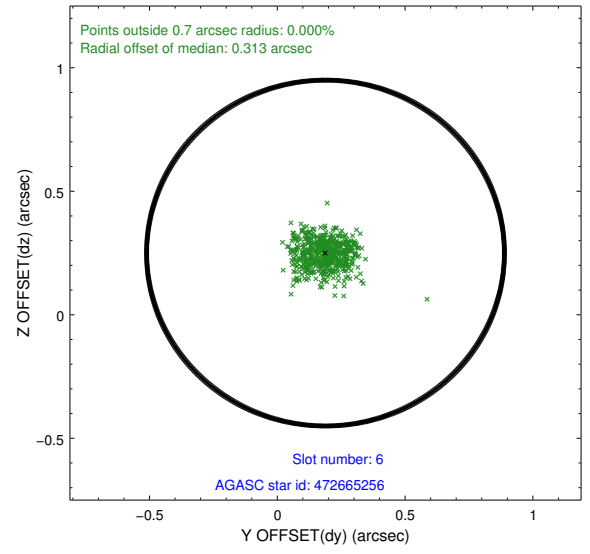
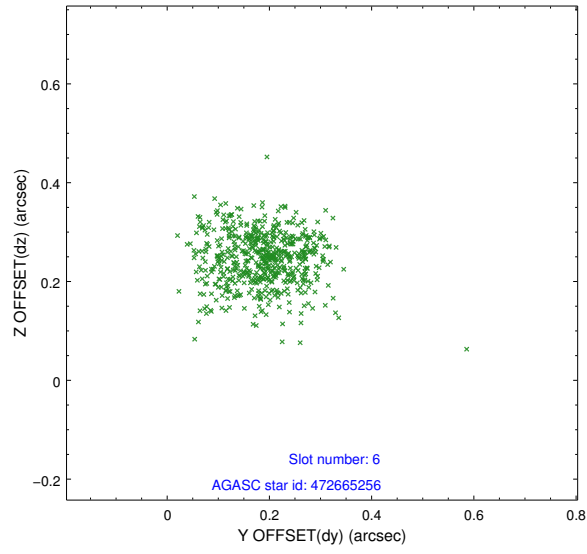
## 2.4.2 Slot 4



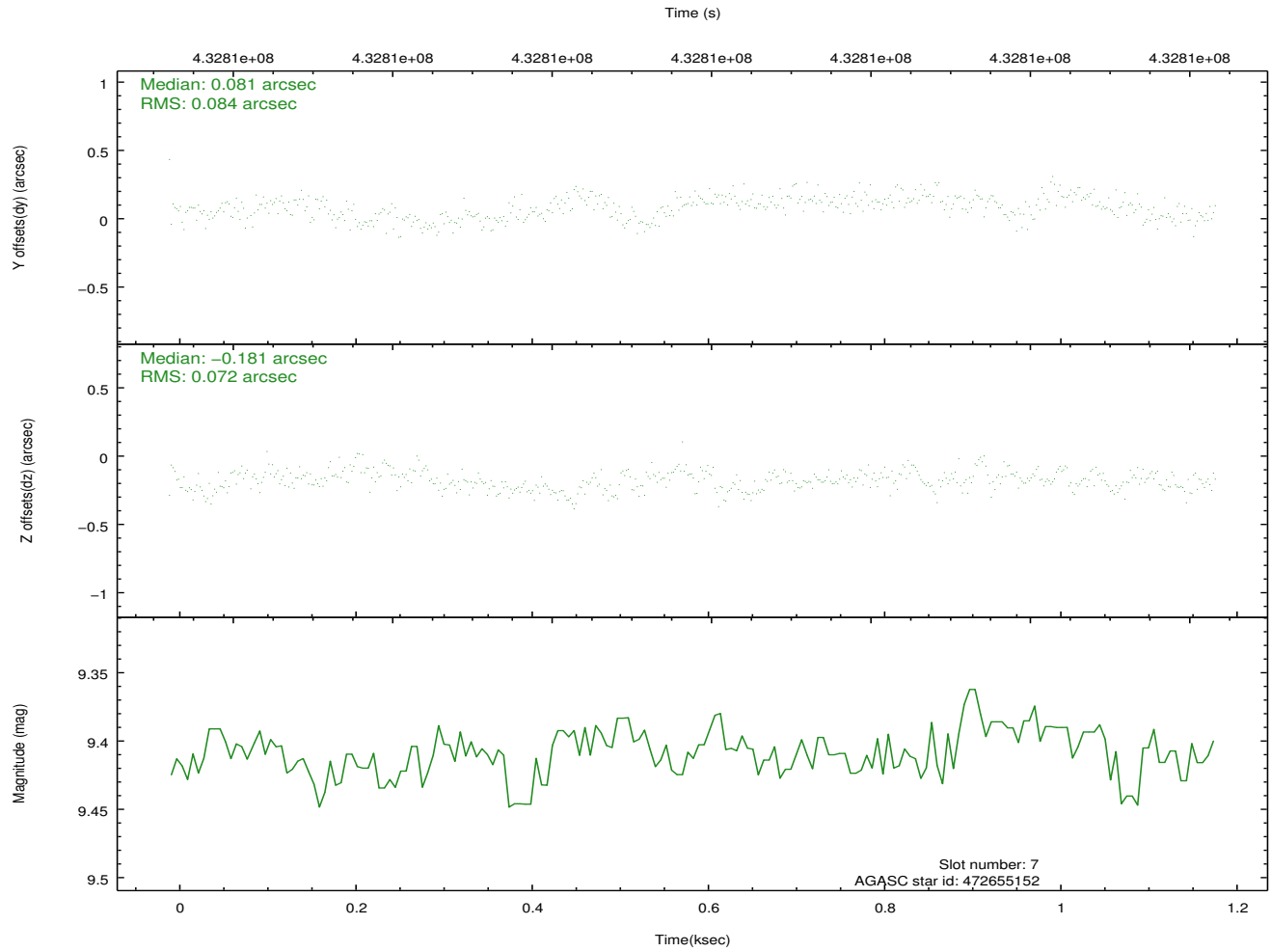
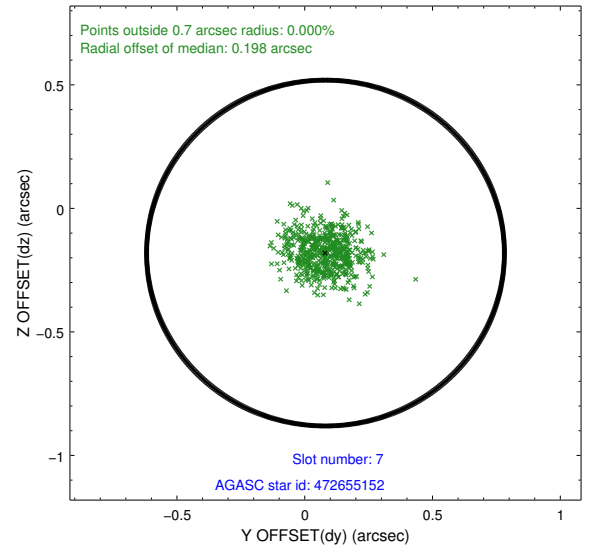
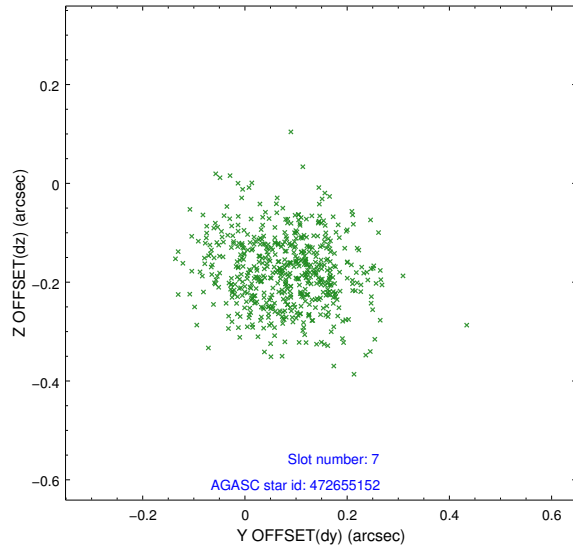
### 2.4.3 Slot 5



## 2.4.4 Slot 6

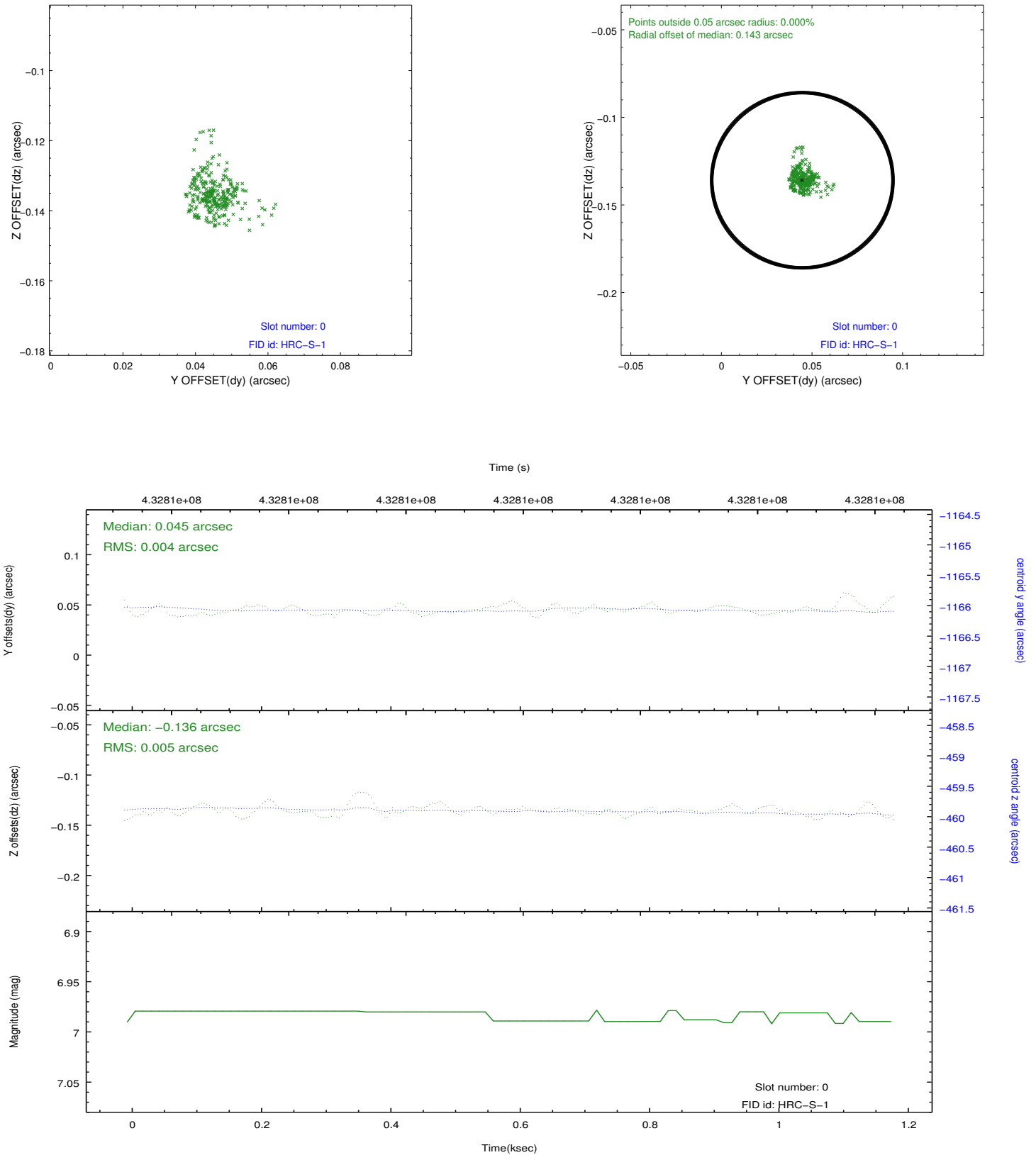


## 2.4.5 Slot 7

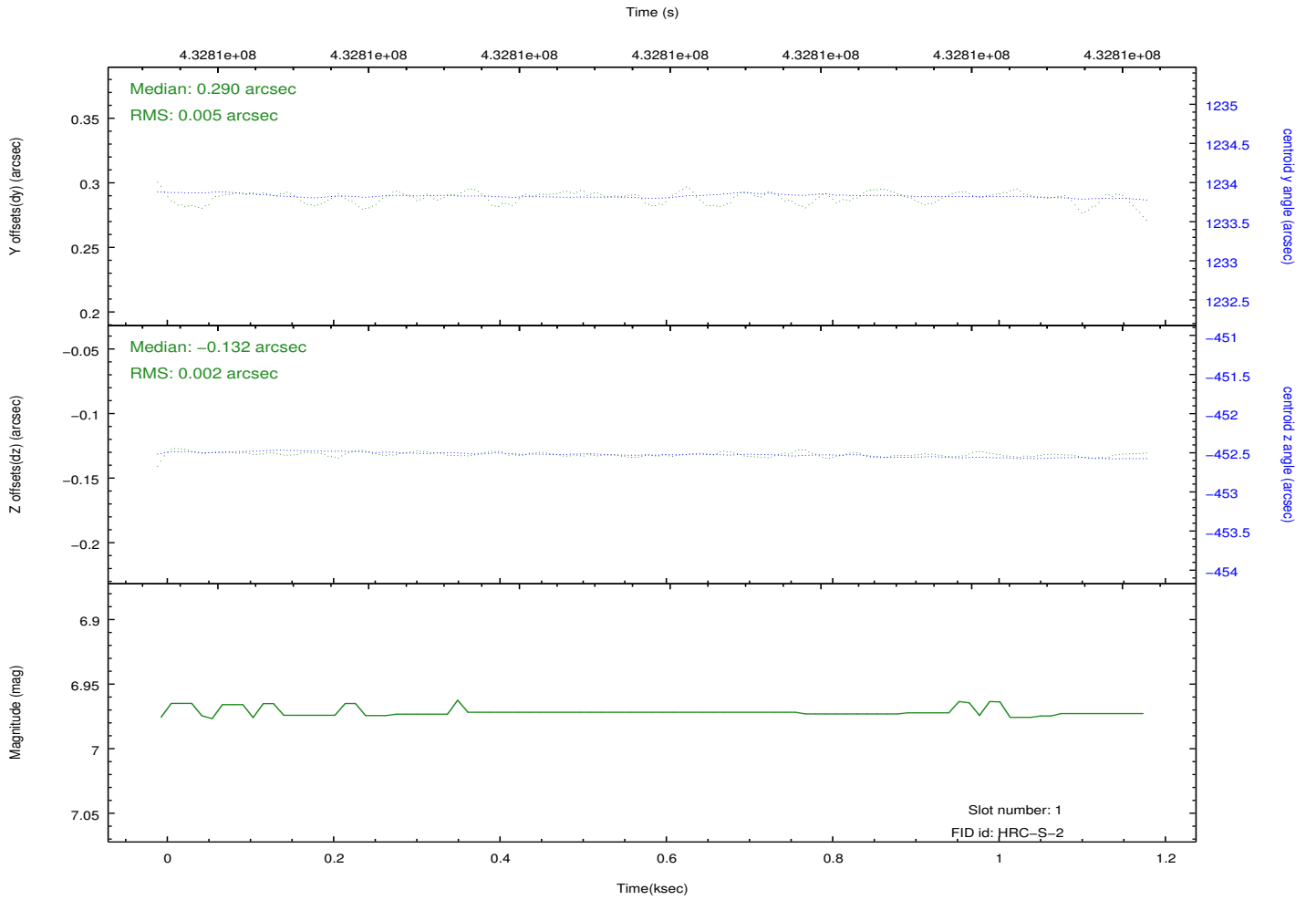
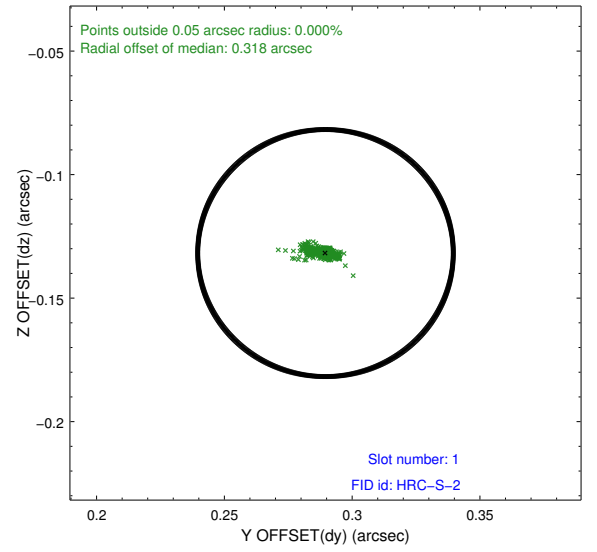
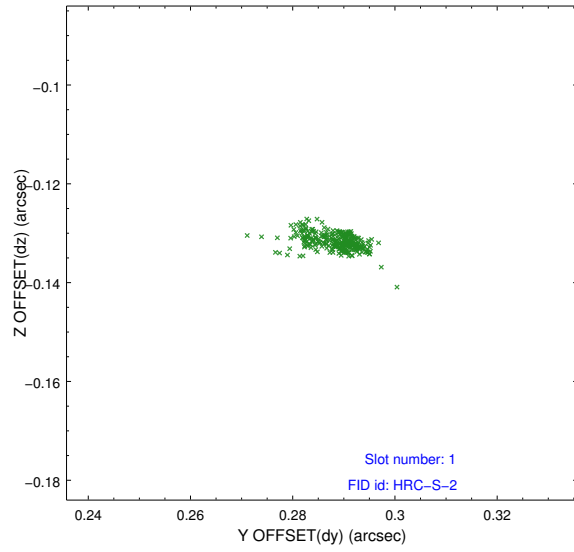


## 2.5 FID Slots

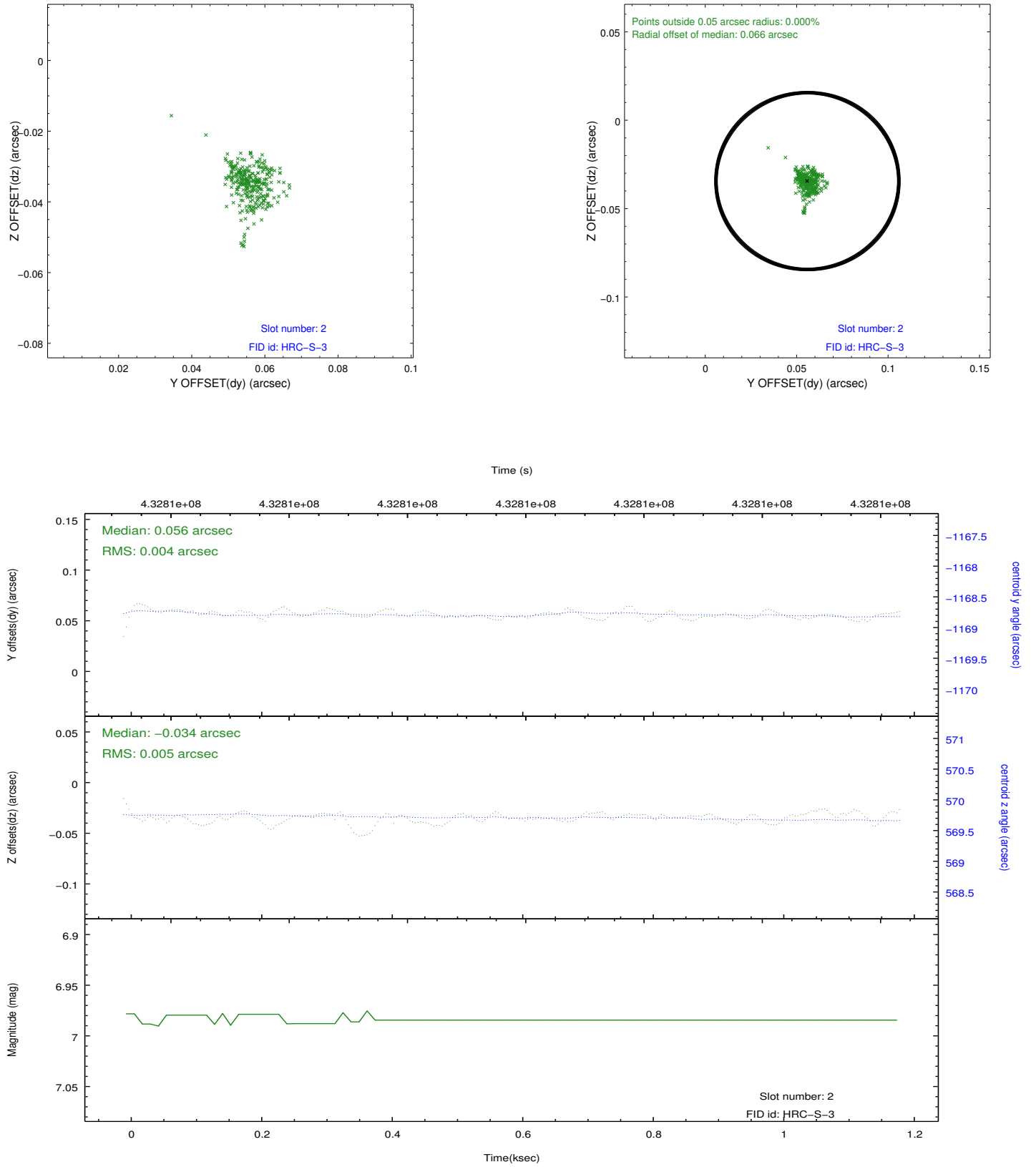
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.08.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1595313106179

### A.2 Comments