

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 16417 - L2 Version 1  
Chandra X-Ray Center

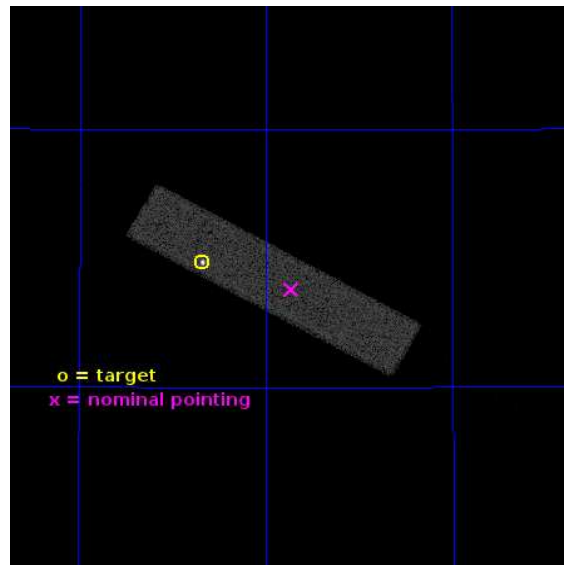
L2 Processing Date : Sep 17 2014

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# 1 Front

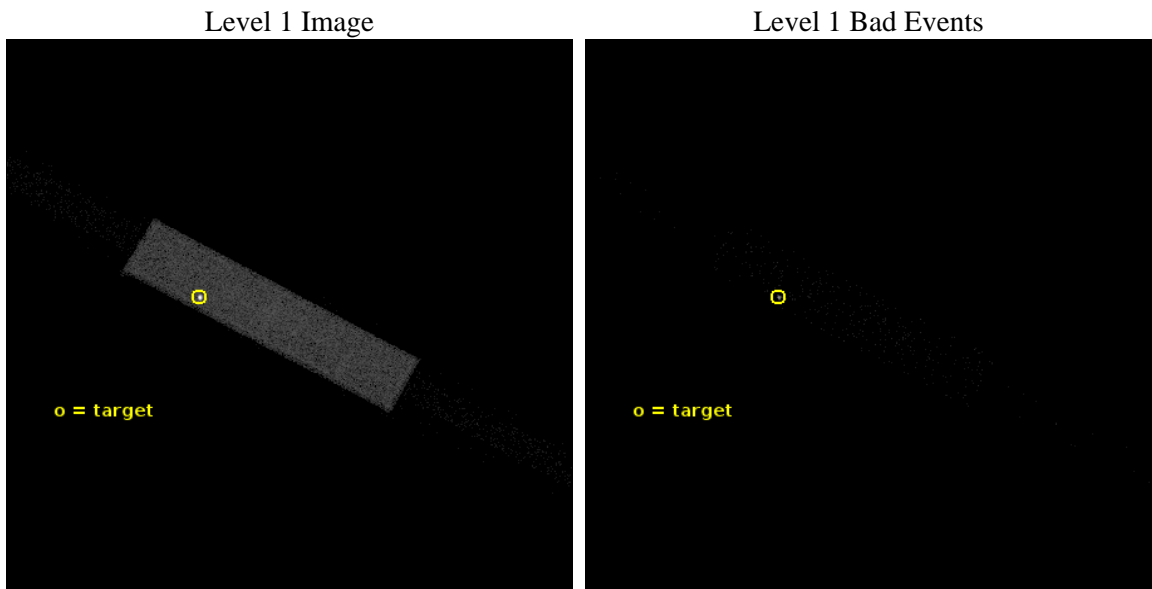
seq_num	291189	Sequence number
obs_id	16417	Observation id
title	AO-15 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	331.93110237986	Nominal RA [deg]
dec_nom	45.690097641647	Nominal Dec [deg]
roll_nom	208.77574309679	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1150.81881392	[s]
livetime	1143.4617227156	Ontime multiplied by DTCOR
l2events	60084	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	10.2.4	Processing system revision	ontime	1150.81881392	[s]
caldsver	4.6.3	&#160	l1events	85659	Number of level 1 events
date	2014-09-17T03:53:11	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

Level 1 Events

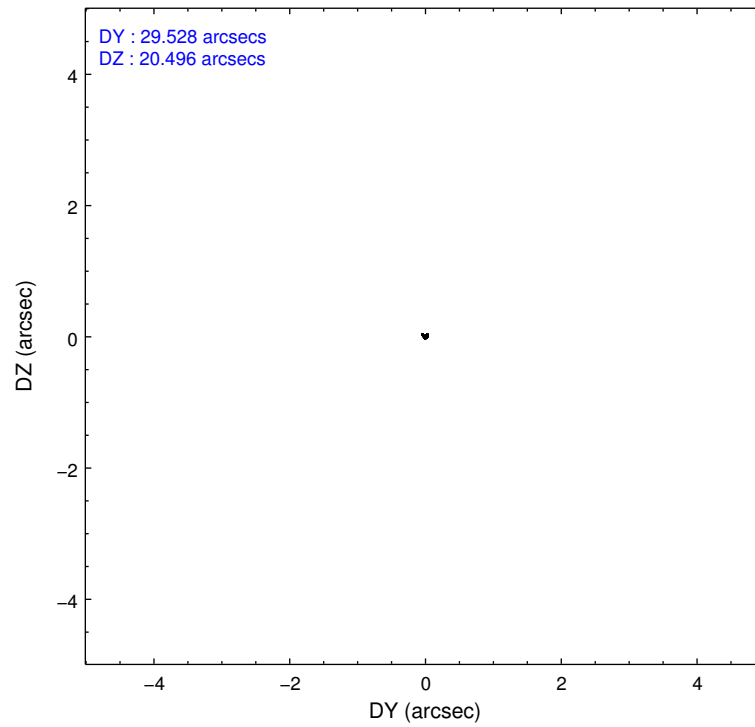
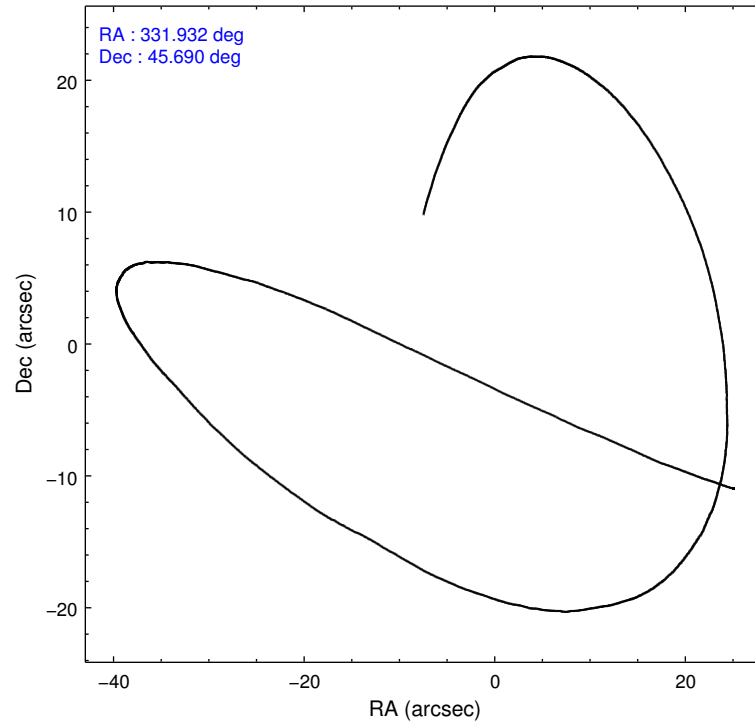
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	645	84384	630
rejected events	645	15095	610
rejected %	100%	17%	96%

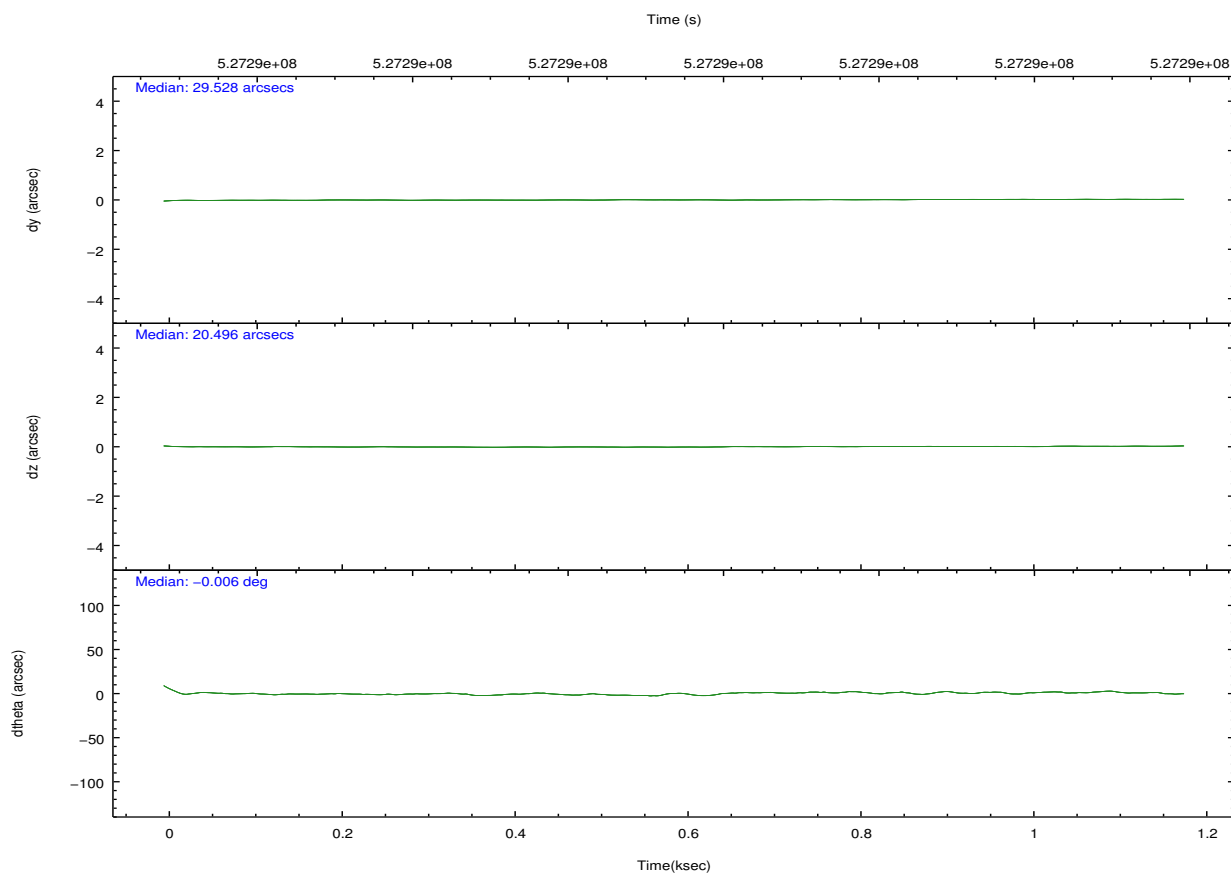
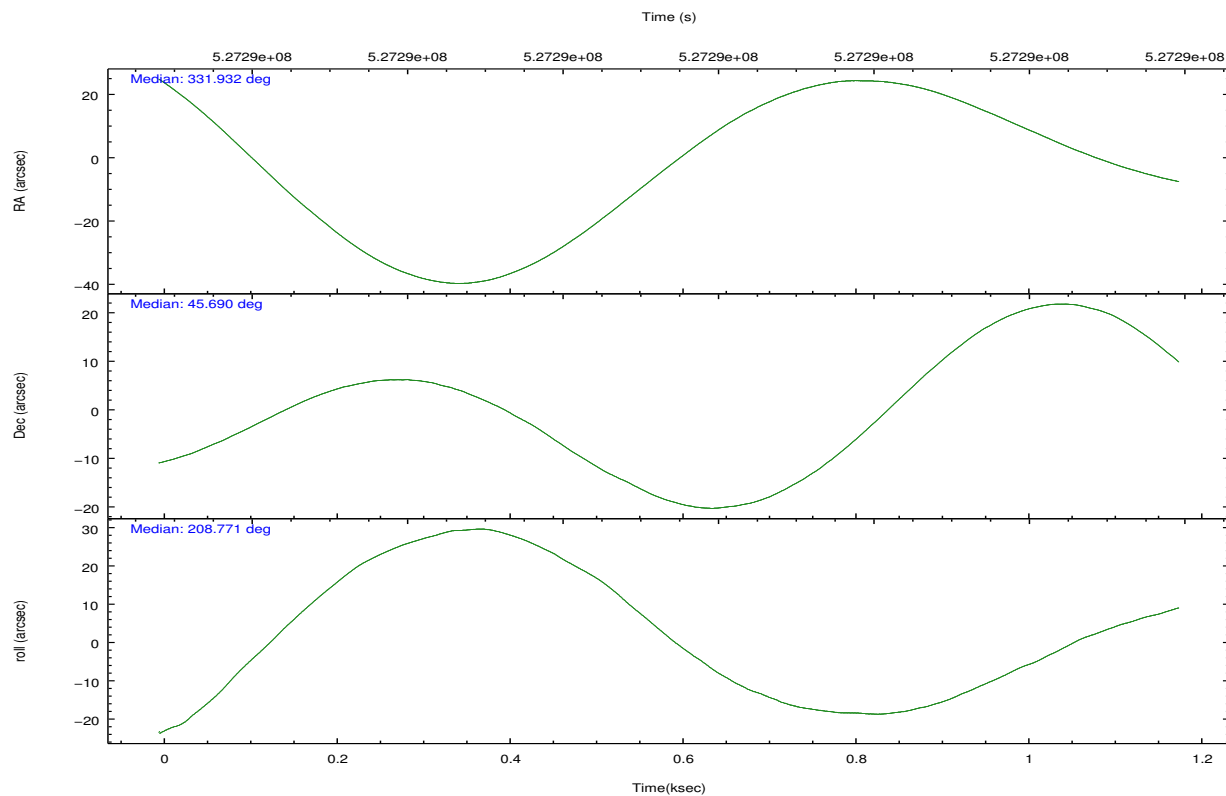
## 2.2 Compared Parameters

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	331.951099	331.9311023798572
[deg] Pointing Dec	45.714754	45.69009764164747
[deg] Pointing Roll	208.694107	208.7757430967866
[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)	527287118.184000	527286741.34169
Observation start date	2014-09-16T20:37:31	2014-09-16T20:32:21
[s] Observation end time (MET)	527288118.184000	527288672.9543
Observation end date	2014-09-16T20:54:11	2014-09-16T21:04:32

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

## 2.3 Aspect





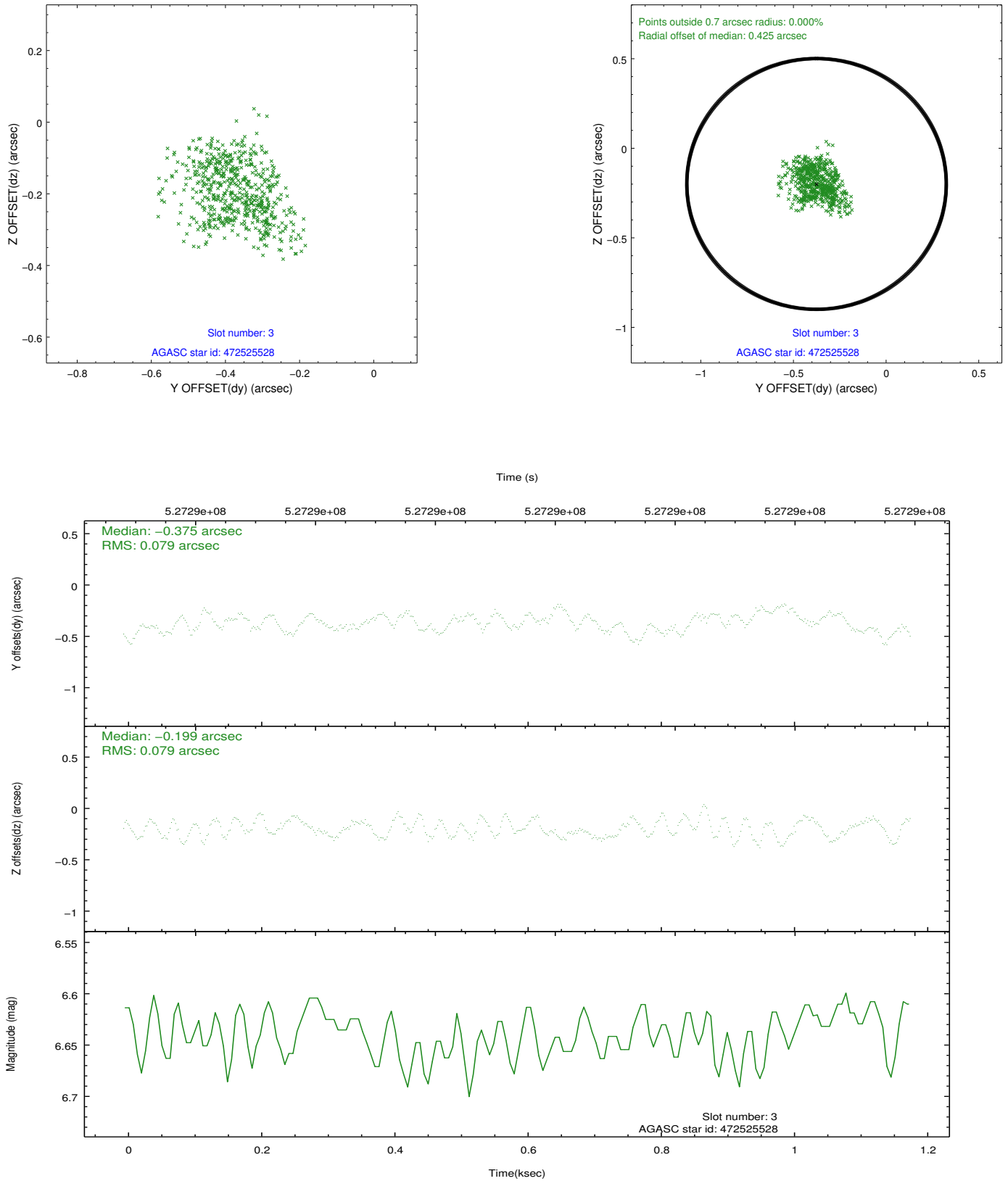
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.08	288	-0.186	-0.197	0.005	0.009	0.000000	0.000000	-1184.55	-469.65
1	FID	HRC-S-2	7.04	288	0.234	-0.112	0.012	0.020	0.000000	0.000000	1211.41	-463.72
2	FID	HRC-S-4	7.00	288	0.355	0.006	0.012	0.019	0.000000	0.000000	1218.38	561.13
3	GUIDE	472525528	6.64	577	-0.375	-0.199	0.118	0.195	331.551102	45.248694	1693.96	985.65
4	GUIDE	472527720	7.01	577	-0.311	-0.286	0.112	0.169	331.460205	45.112509	2136.44	1304.20
5	GUIDE	472533912	9.14	577	0.351	0.509	0.166	0.287	331.791136	46.368695	-777.05	-2250.60
6	GUIDE	472655152	9.41	576	0.318	0.173	0.163	0.269	332.504239	45.862991	-1475.24	192.70
7	GUIDE	472651904	6.11	576	0.030	-0.191	0.109	0.167	332.170077	45.742257	-532.00	178.64

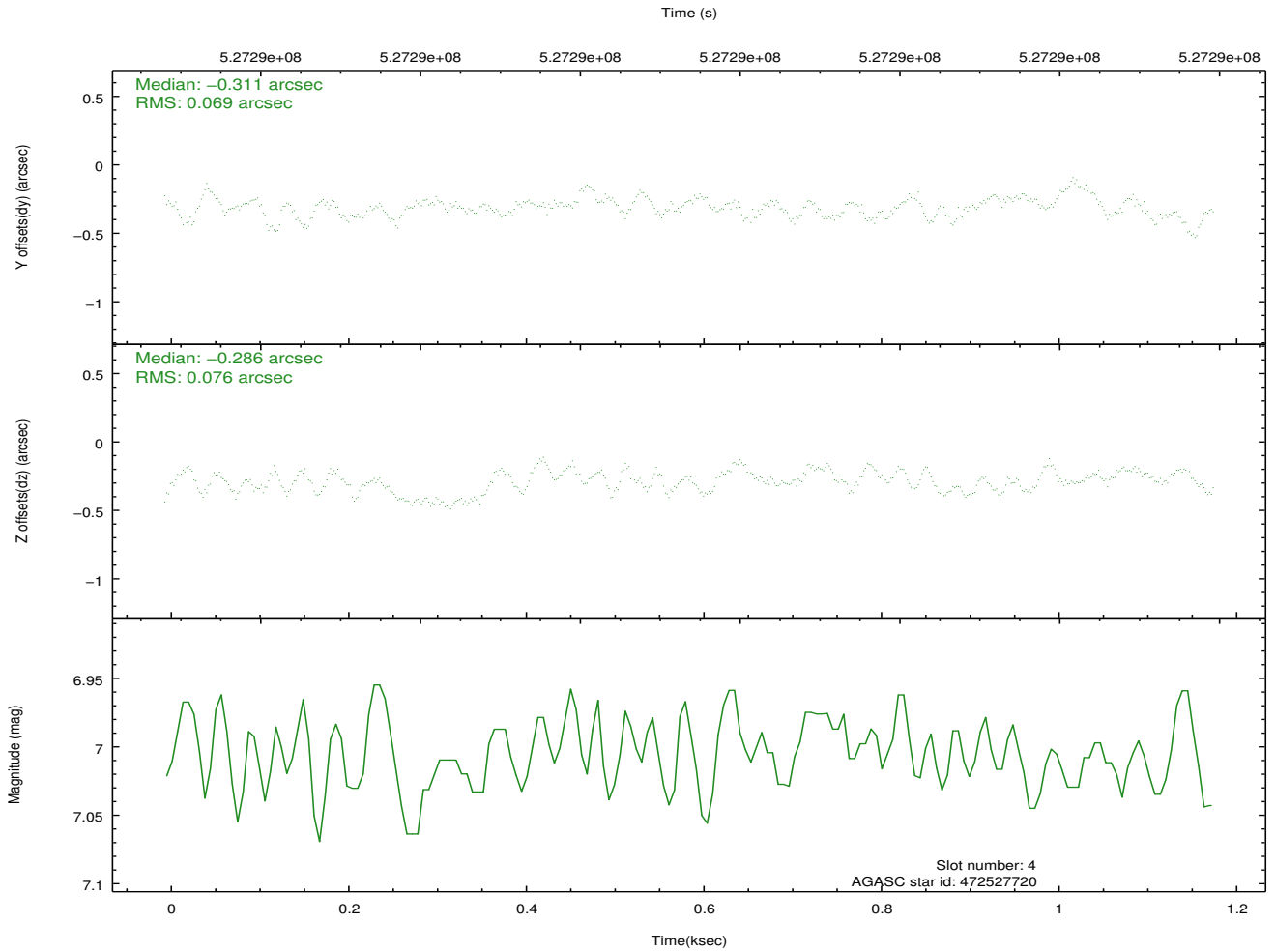
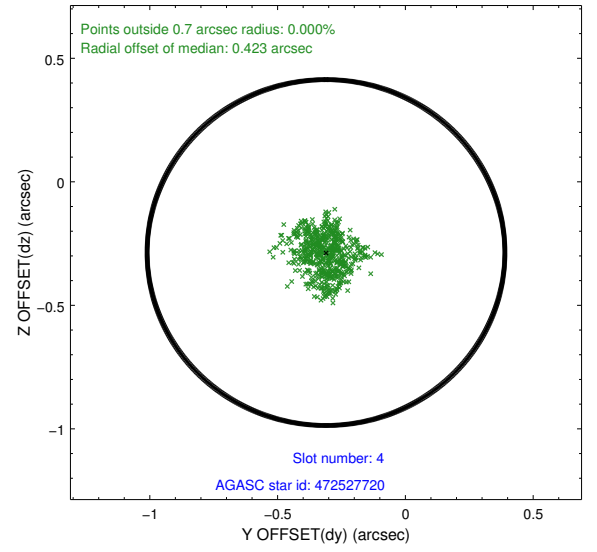
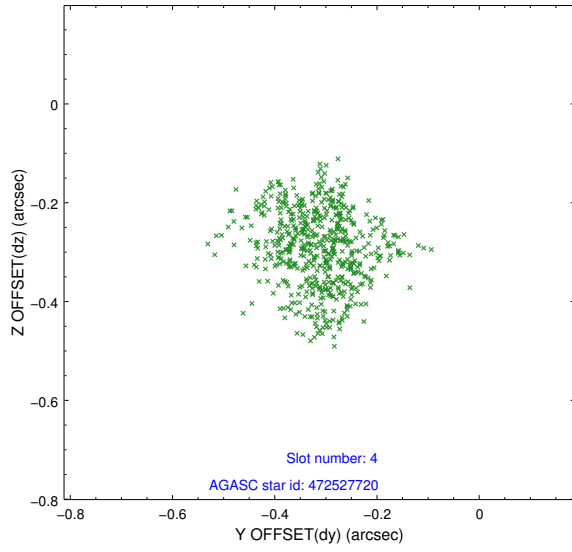


## 2.4 Star Slots

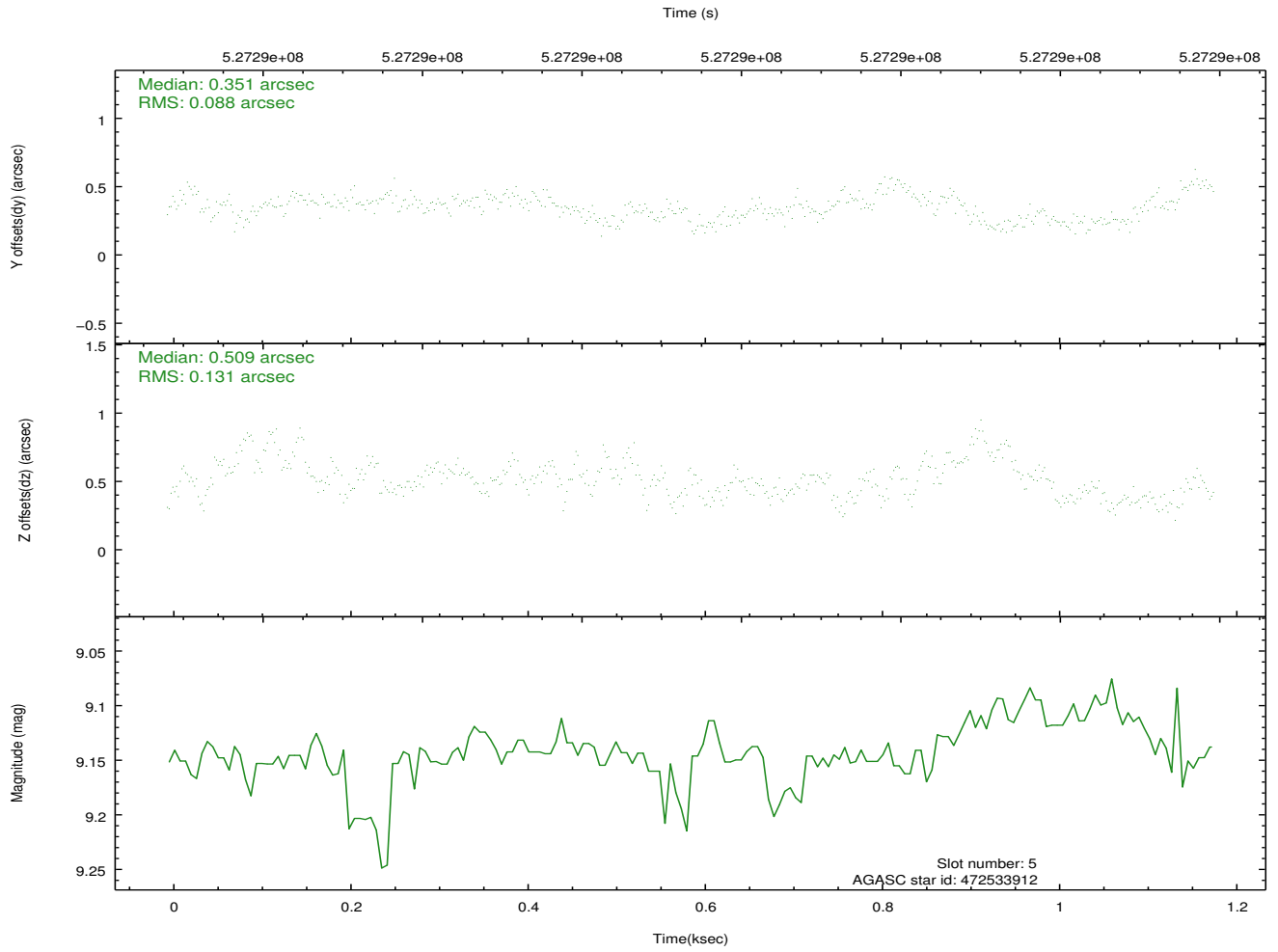
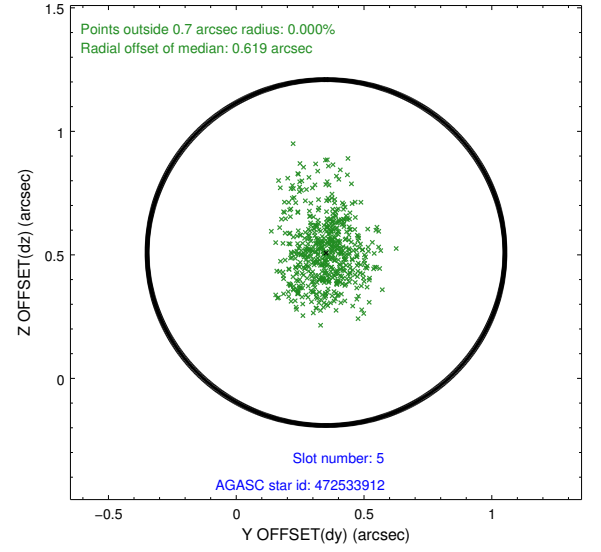
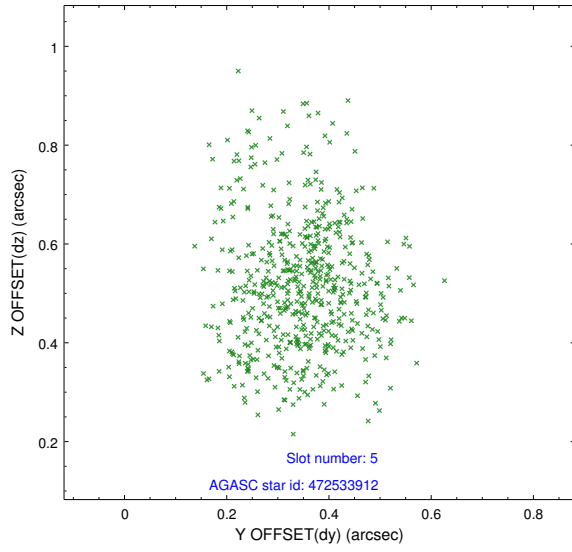
### 2.4.1 Slot 3



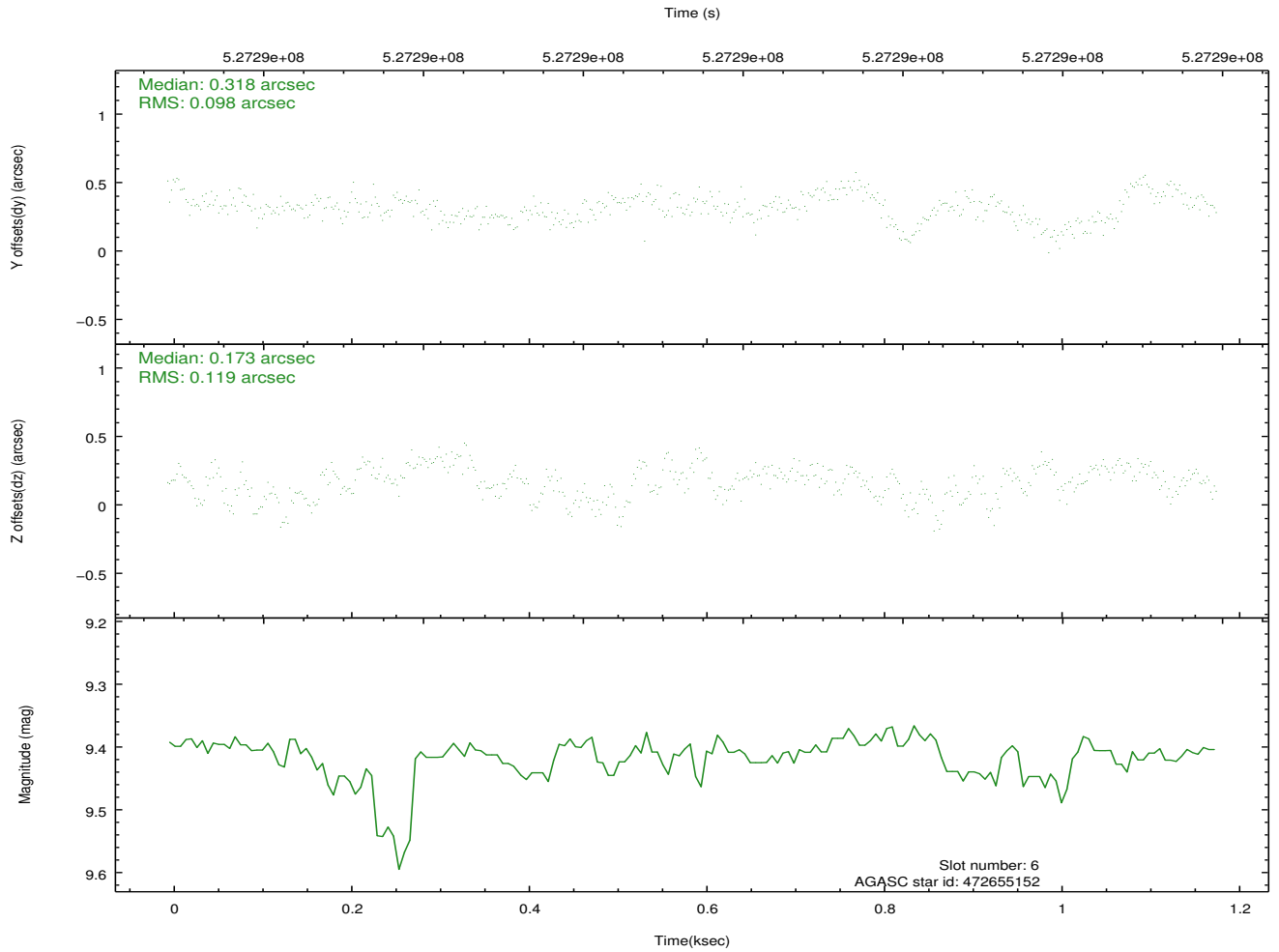
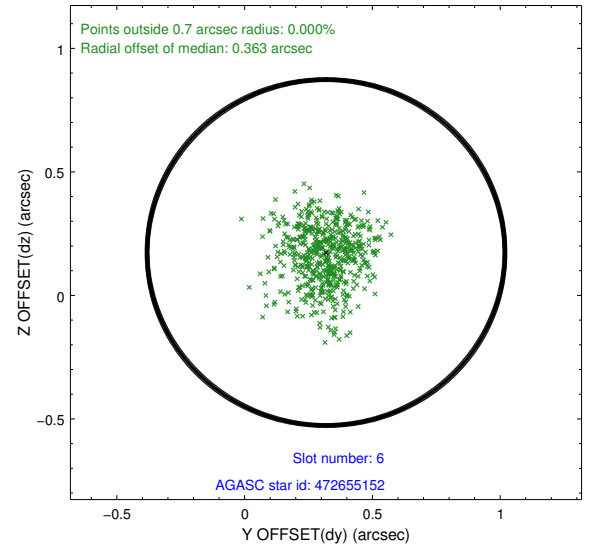
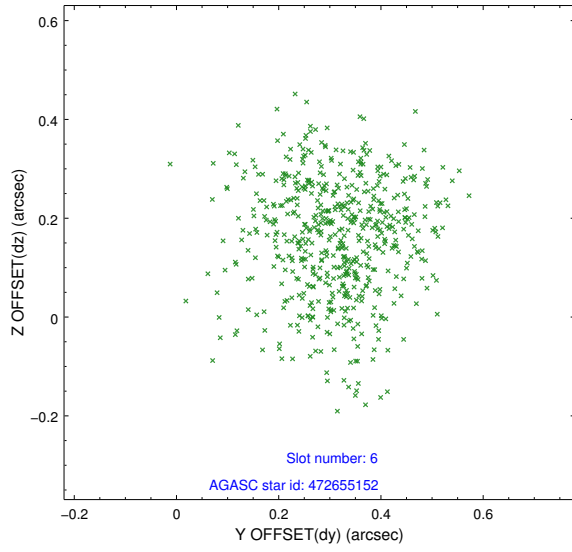
## 2.4.2 Slot 4



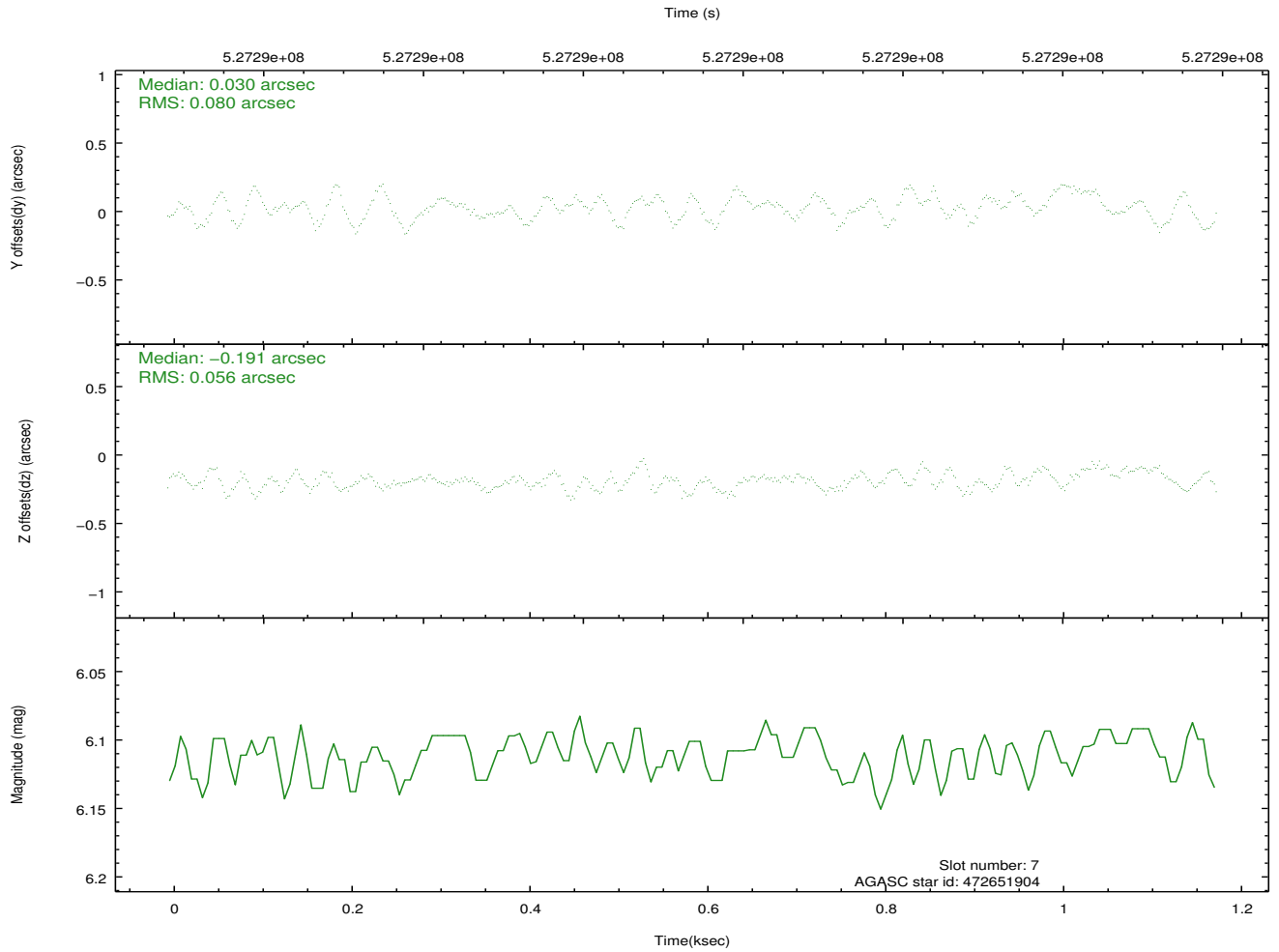
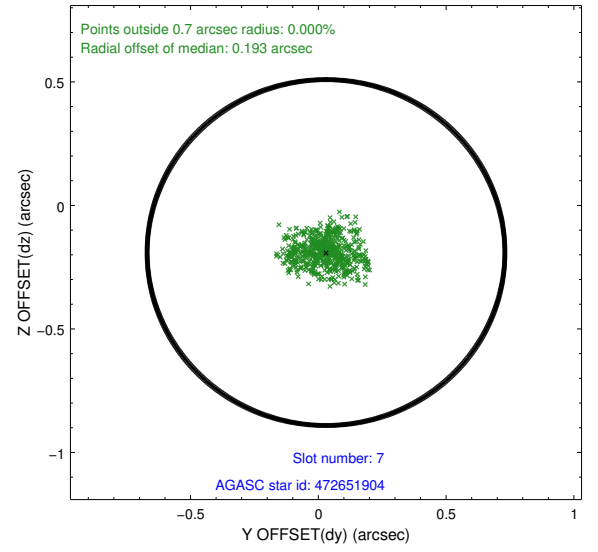
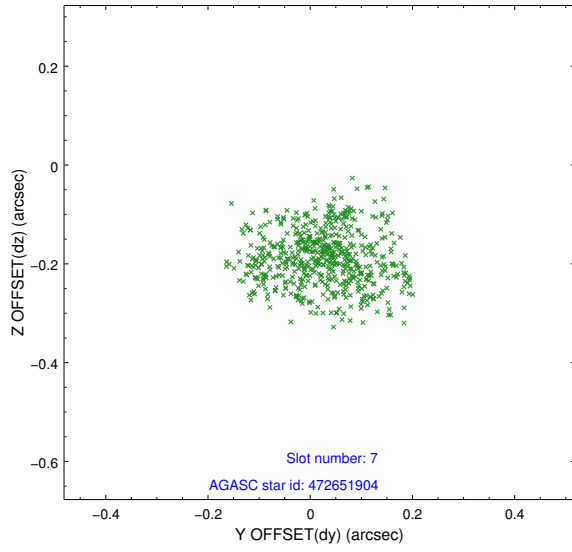
### 2.4.3 Slot 5



## 2.4.4 Slot 6

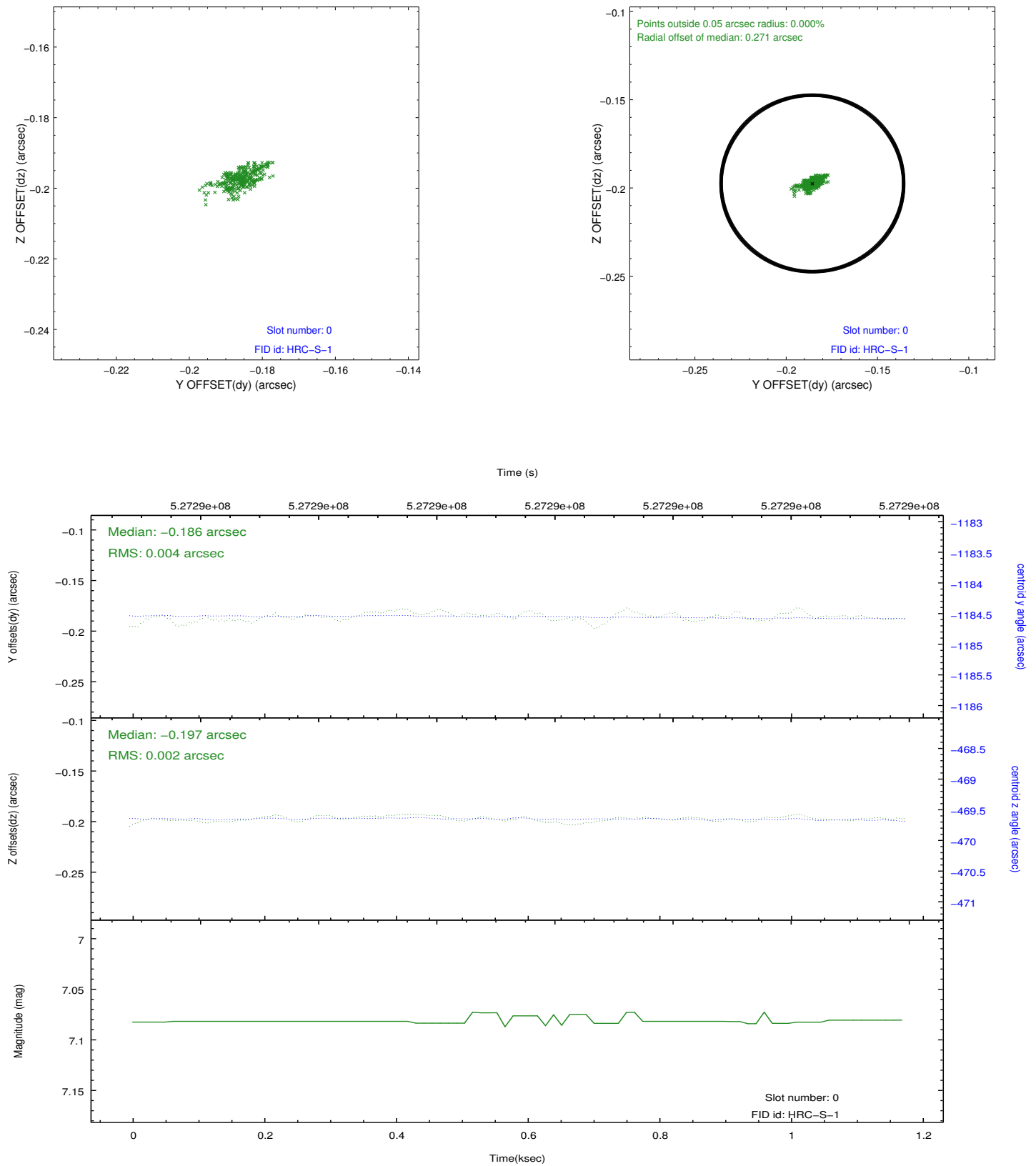


## 2.4.5 Slot 7

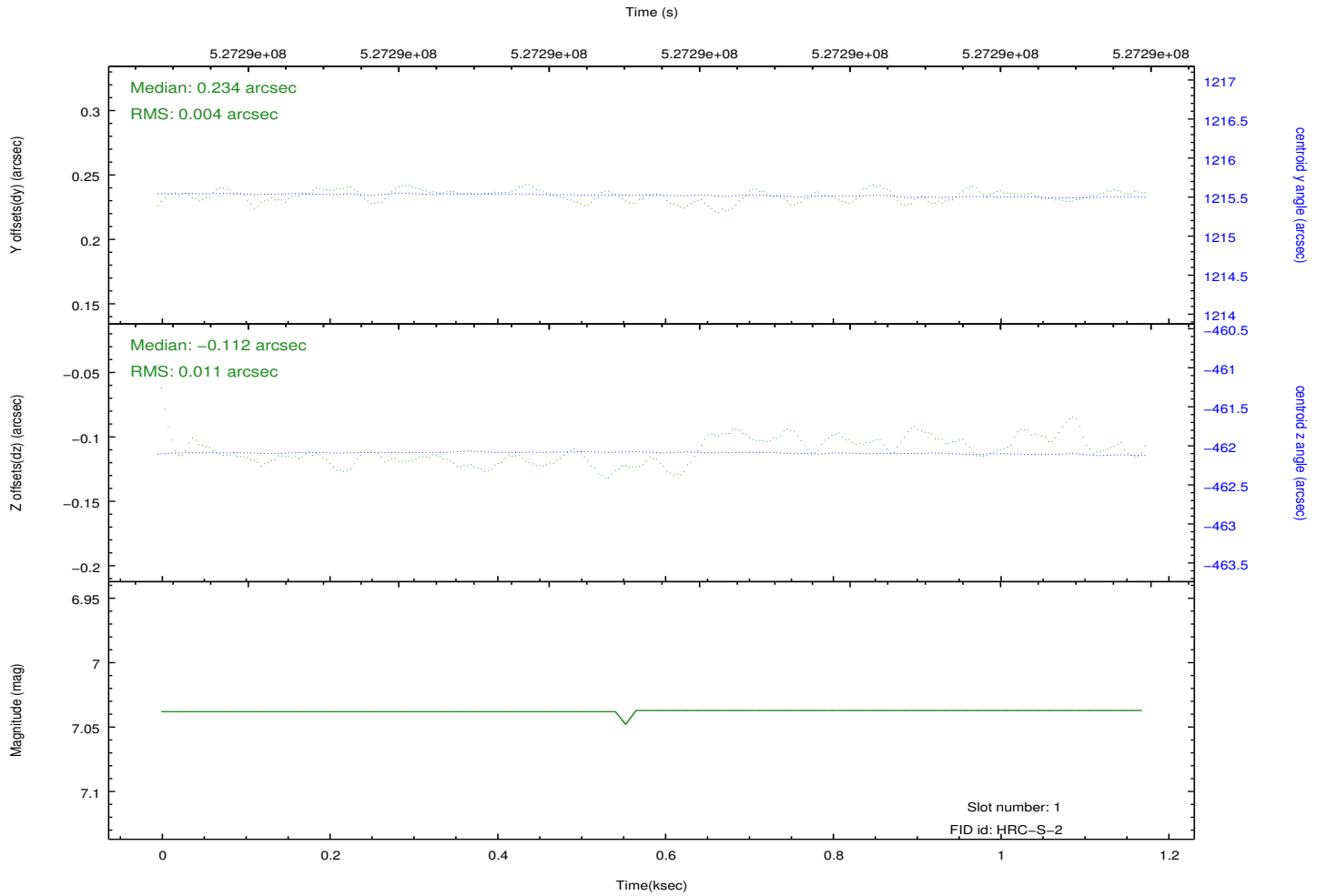
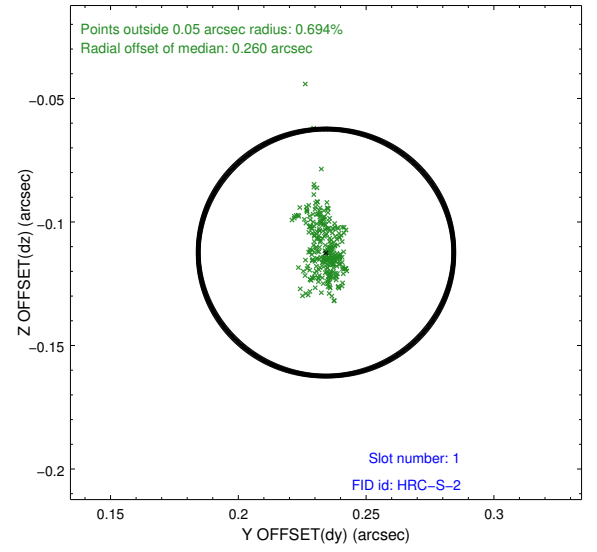
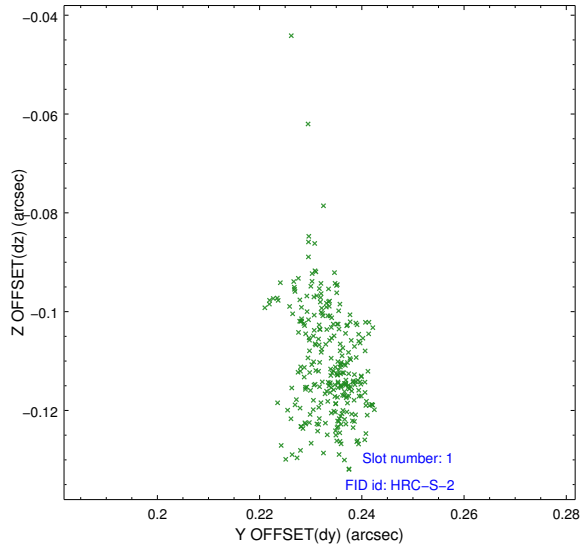


## 2.5 FID Slots

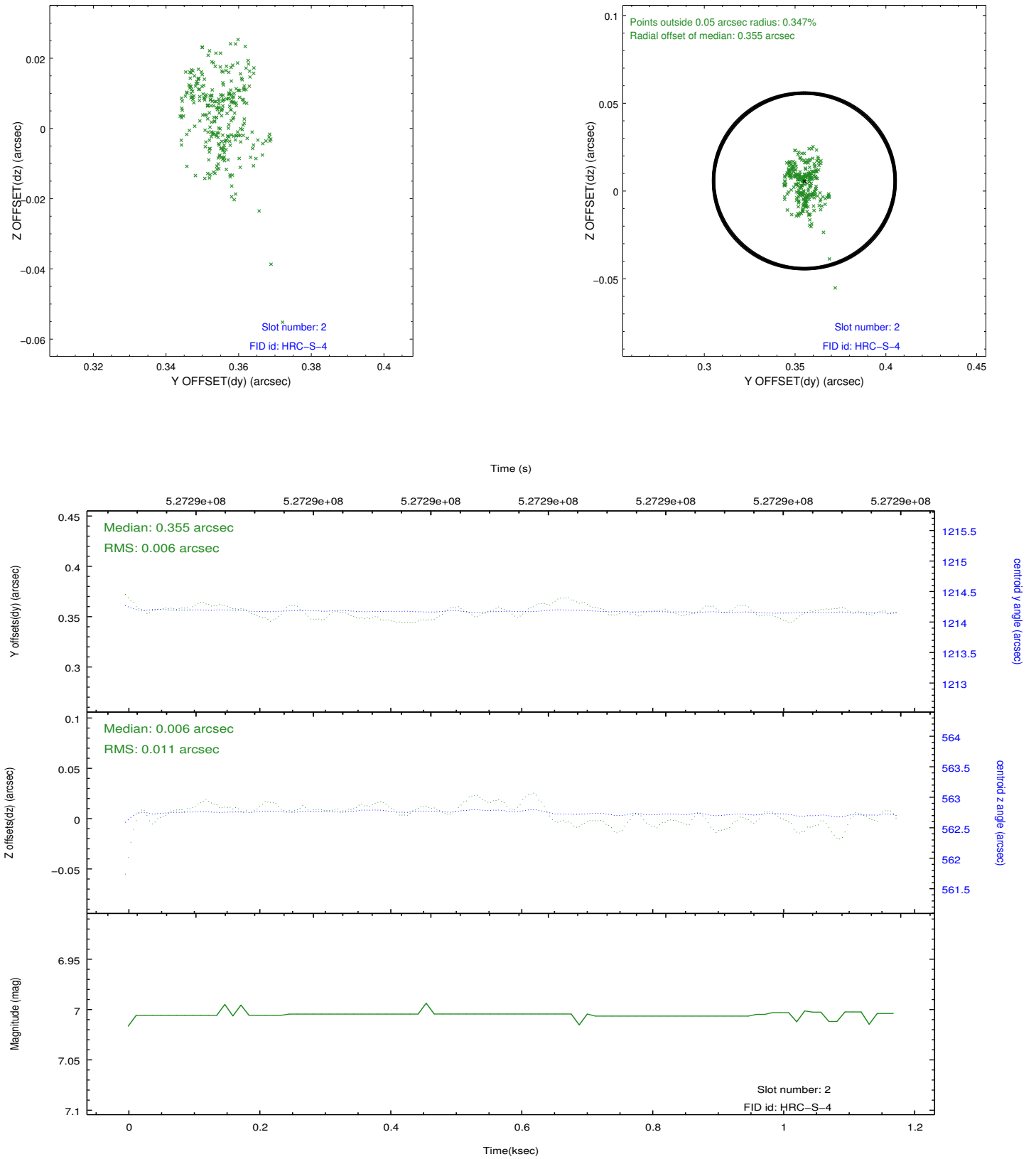
### 2.5.1 Slot 0



## 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)	2014.09.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.15081881392

### A.2 Comments