

# V&V Reference Report

## L2 ASCDS Version : 10.5.1.1

Observation 18389 - L2 Version 1  
Chandra X-Ray Center

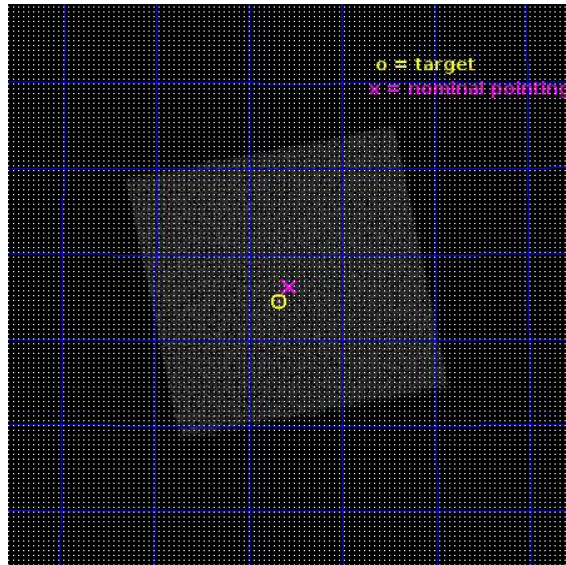
L2 Processing Date : Sep 20 2016

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# 1 Front

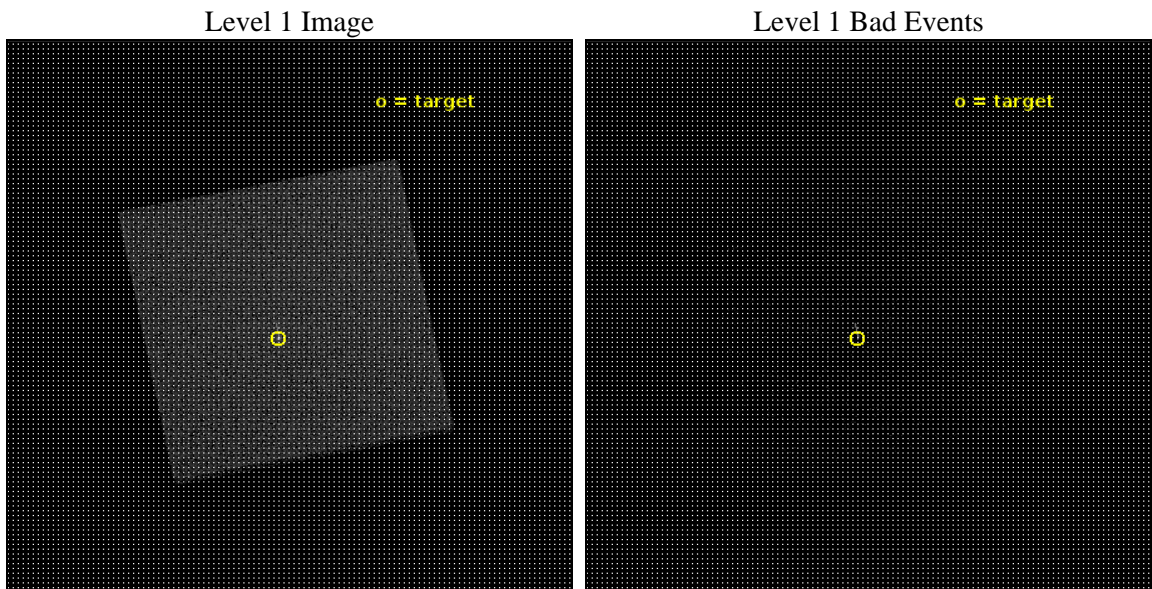
seq_num	291284	Sequence number
obs_id	18389	Observation id
title	AO-17 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.14030328361	Nominal RA [deg]
dec_nom	45.770811289296	Nominal Dec [deg]
roll_nom	213.70608448219	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1180.0313179493	[s]
livetime	1166.3999222695	Ontime multiplied by DTCOR
l2events	115397	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	10.5.1.1	Processing system revision	ontime	1180.0313179493	[s]
caldbver	4.7.2	&#160	l1events	194008	Number of level 1 events
date	2016-09-21T02:03:37	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

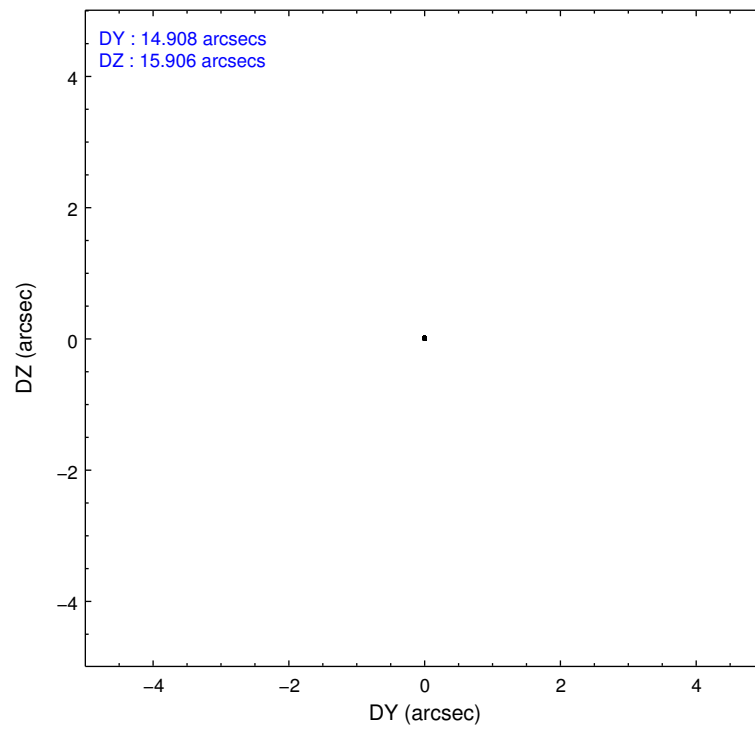
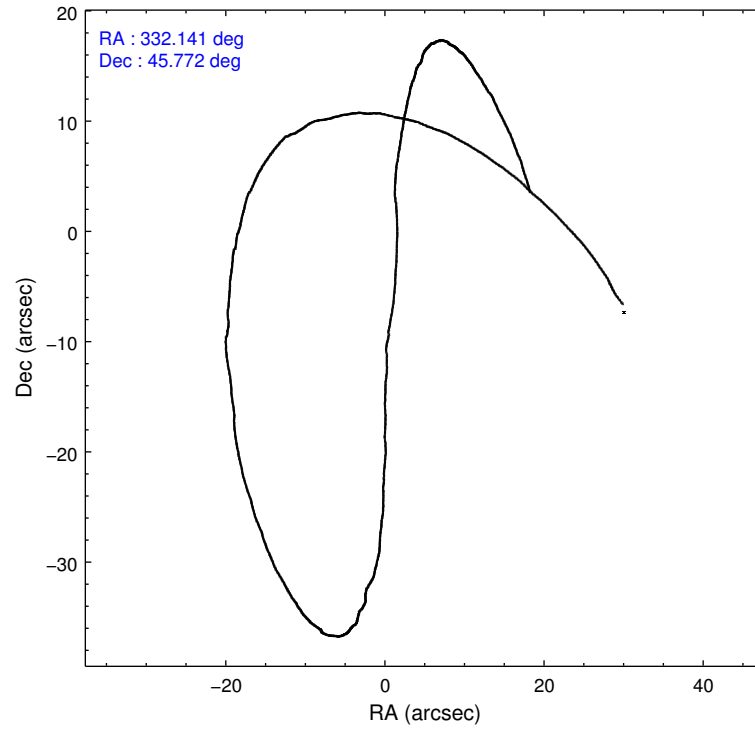
	<b>segment 0</b>
level 1 events	194008
rejected events	42204
rejected %	21%

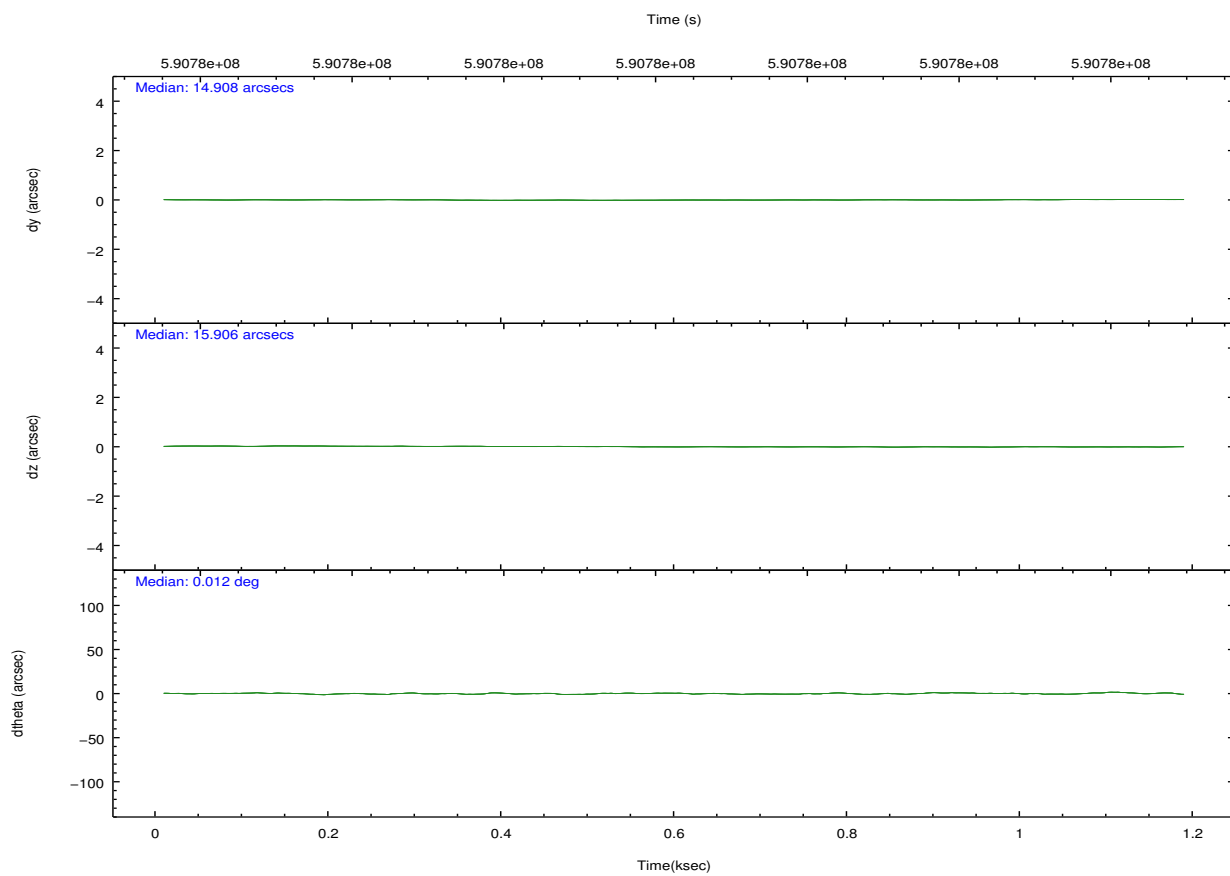
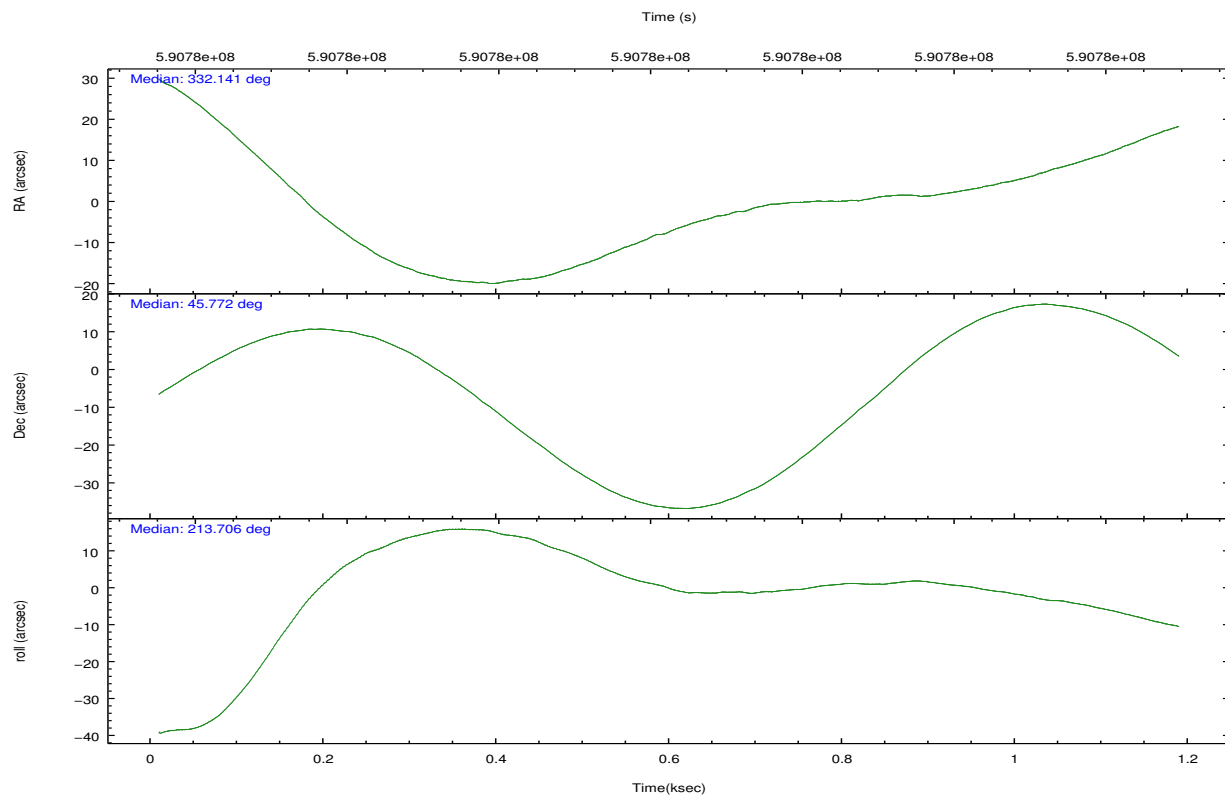
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.157214	332.1403032836121
[deg] Pointing Dec	45.794467	45.77081128929584
[deg] Pointing Roll	213.789580	213.7060844821932
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9829799899862
[mm] SIM translation stage offset	0	0.002508901615314585
[s] Observation start time (MET)	590779007.184000	590778631.2283601
Observation start date	2016-09-20T17:15:39	2016-09-20T17:10:31
[s] Observation end time (MET)	590780007.184000	590780141.05345
Observation end date	2016-09-20T17:32:19	2016-09-20T17:35:41

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

## 2.3 Aspect





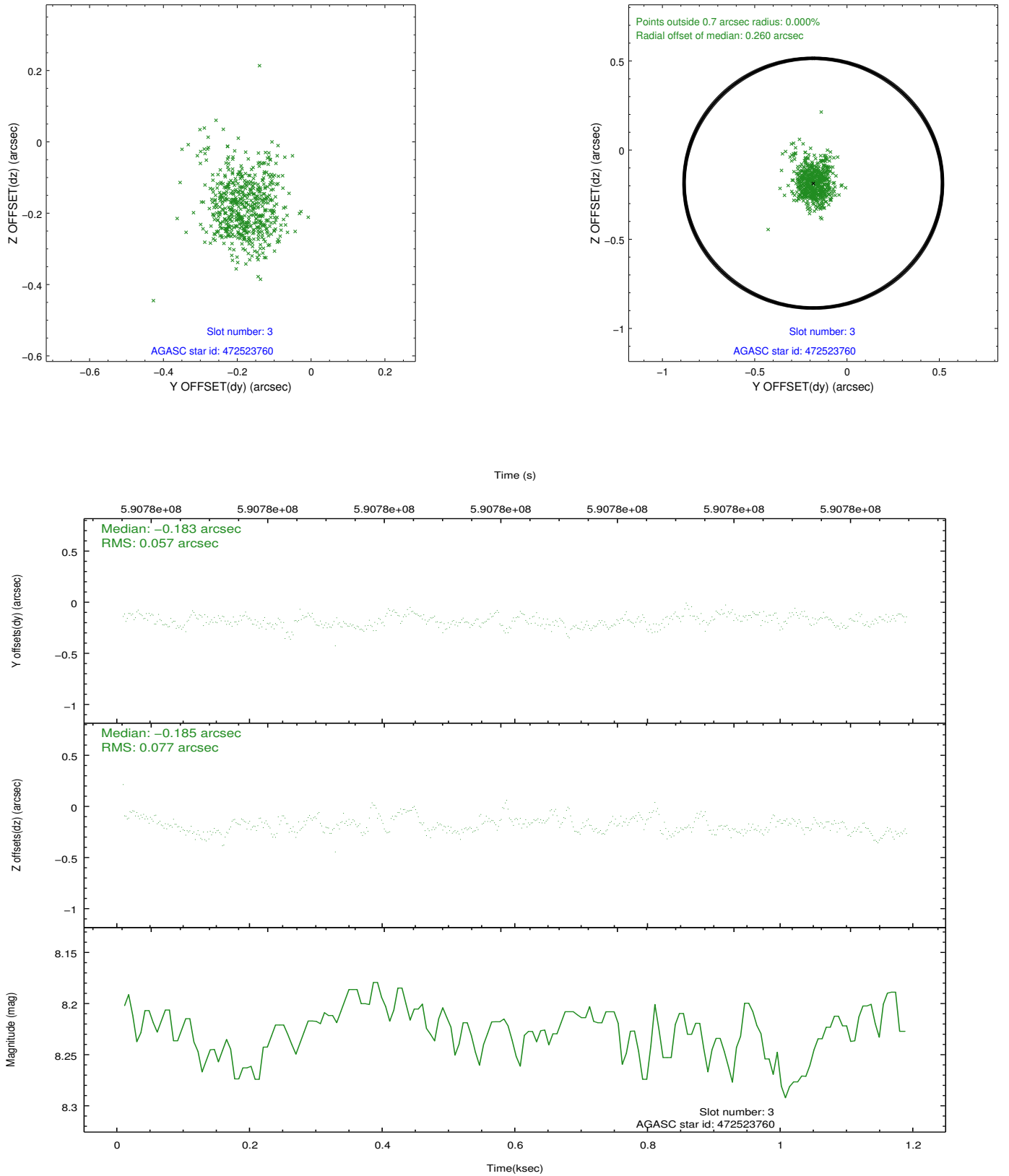
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.03	288	-0.317	-0.164	0.007	0.011	0.000000	0.000000	-771.11	-1304.13
1	FID		HRC-I-2	7.05	288	0.270	-0.076	0.007	0.011	0.000000	0.000000	839.43	-1310.24
2	FID		HRC-I-4	7.04	288	0.162	0.146	0.006	0.010	0.000000	0.000000	1275.23	993.66
3	GUIDE	used	472523760	8.23	577	-0.183	-0.185	0.094	0.172	331.645363	45.403260	1858.08	451.31
4	GUIDE	used	472533912	9.13	577	0.281	0.226	0.160	0.244	331.791136	46.368695	-389.64	-2220.57
5	GUIDE	used	472655152	9.39	576	-0.010	-0.114	0.184	0.312	332.504239	45.862991	-860.02	277.44
6	GUIDE	used	472665256	8.98	577	0.172	0.279	0.163	0.291	332.808125	46.195041	-2153.13	-297.24
7	GUIDE	used	420754040	9.05	576	-0.265	-0.201	0.141	0.240	331.917939	44.882543	2328.54	2392.09

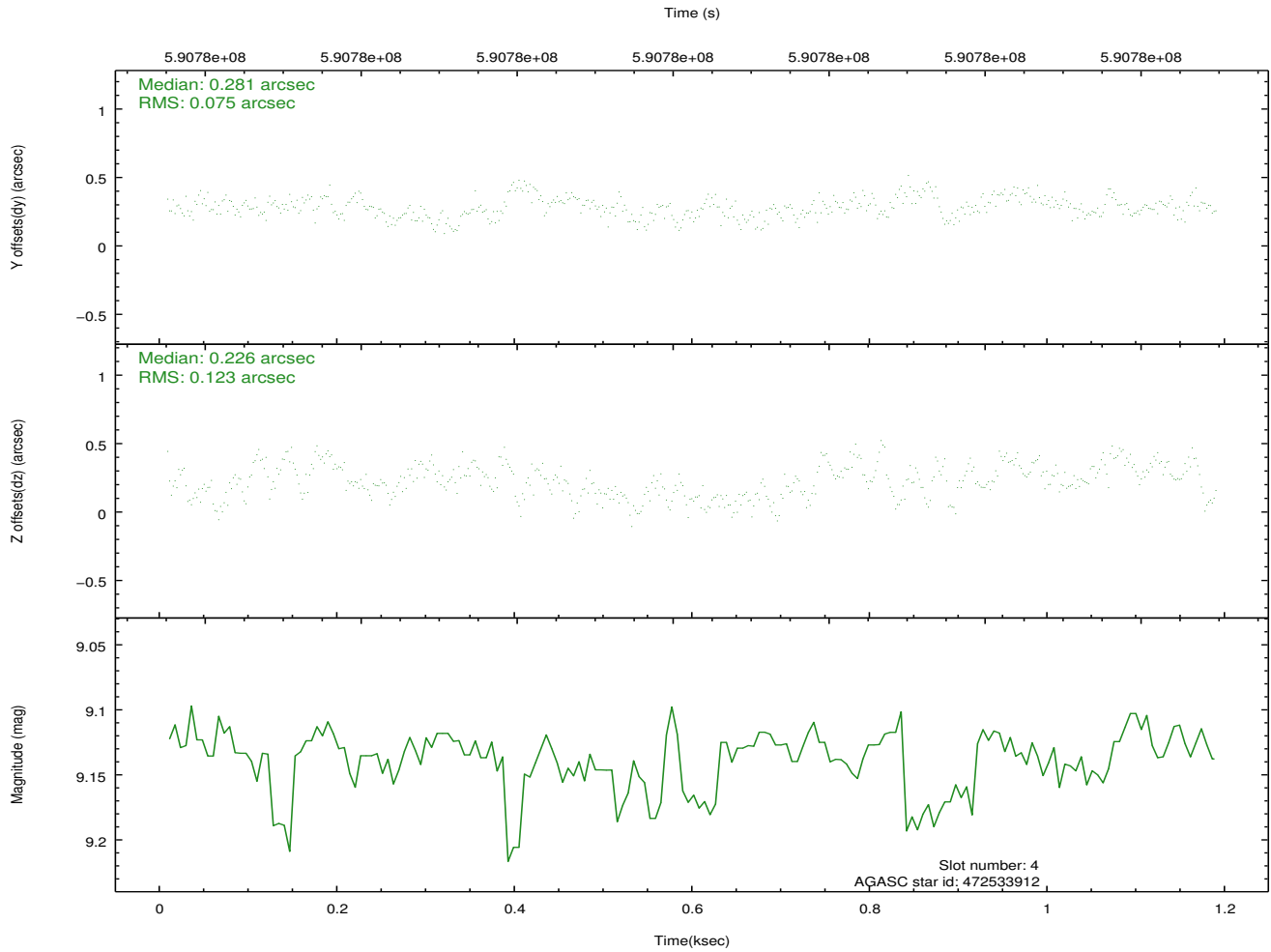
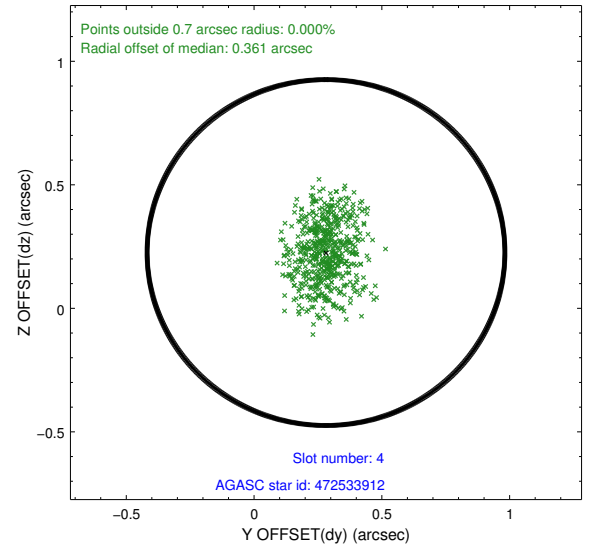
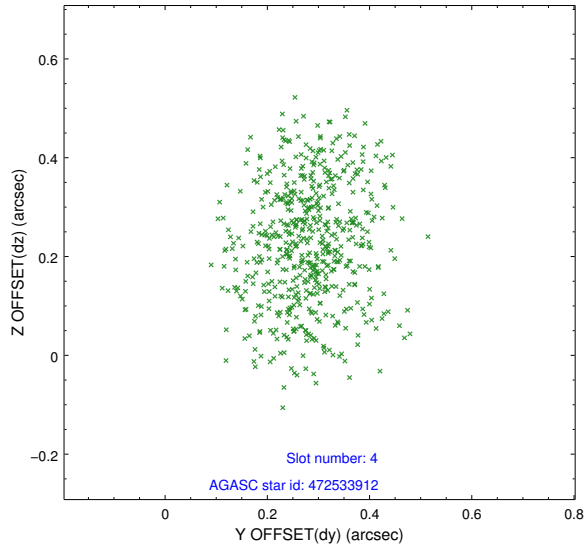


## 2.4 Star Slots

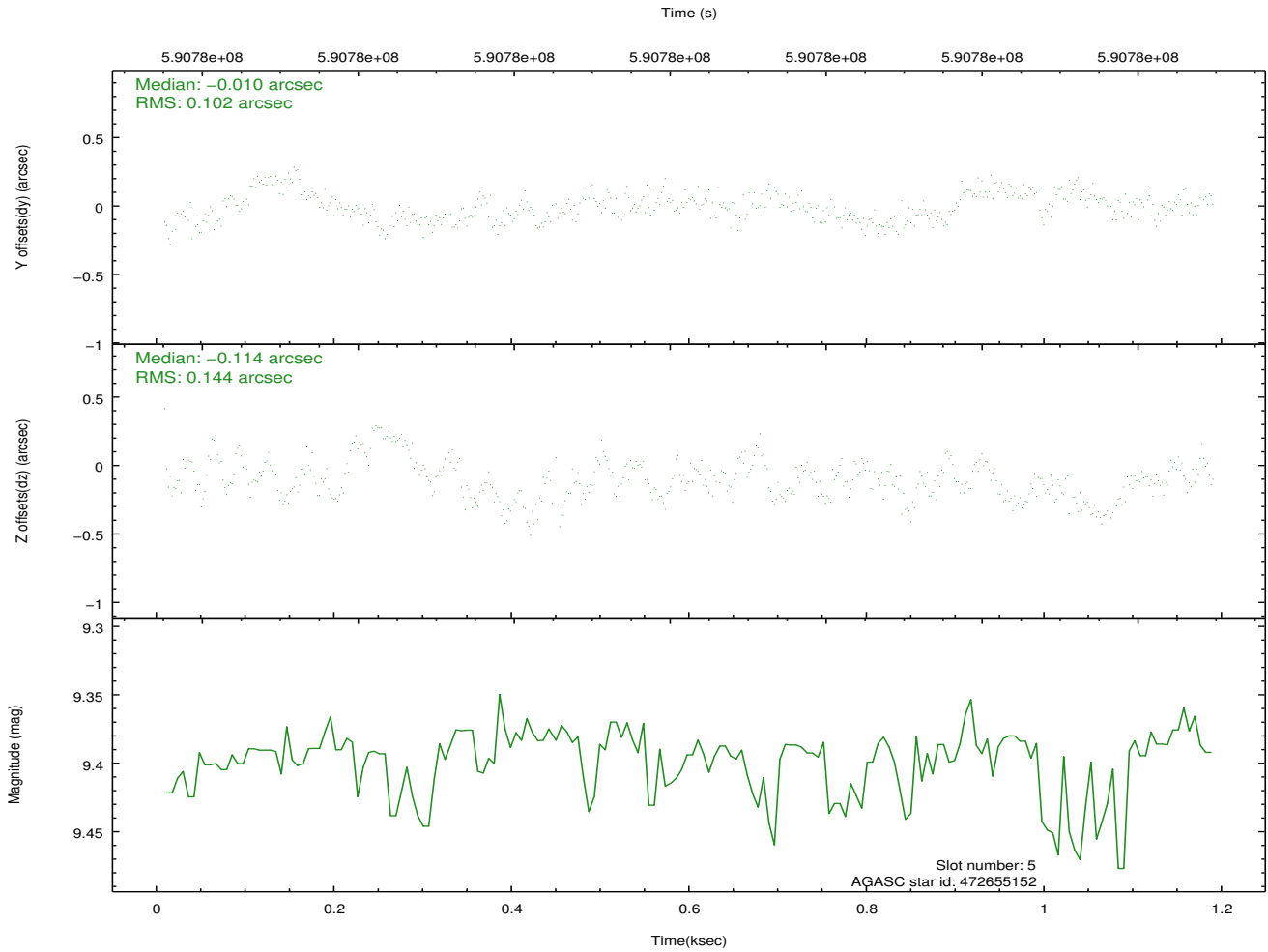
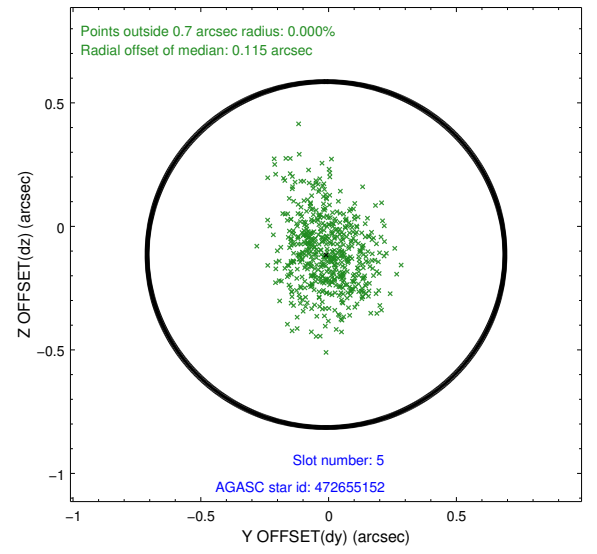
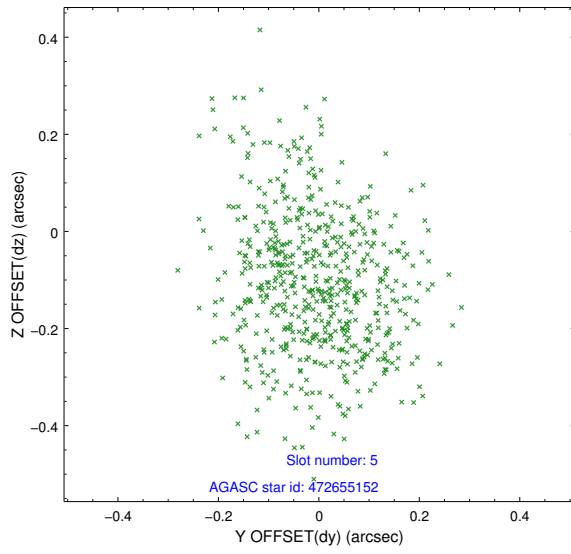
### 2.4.1 Slot 3



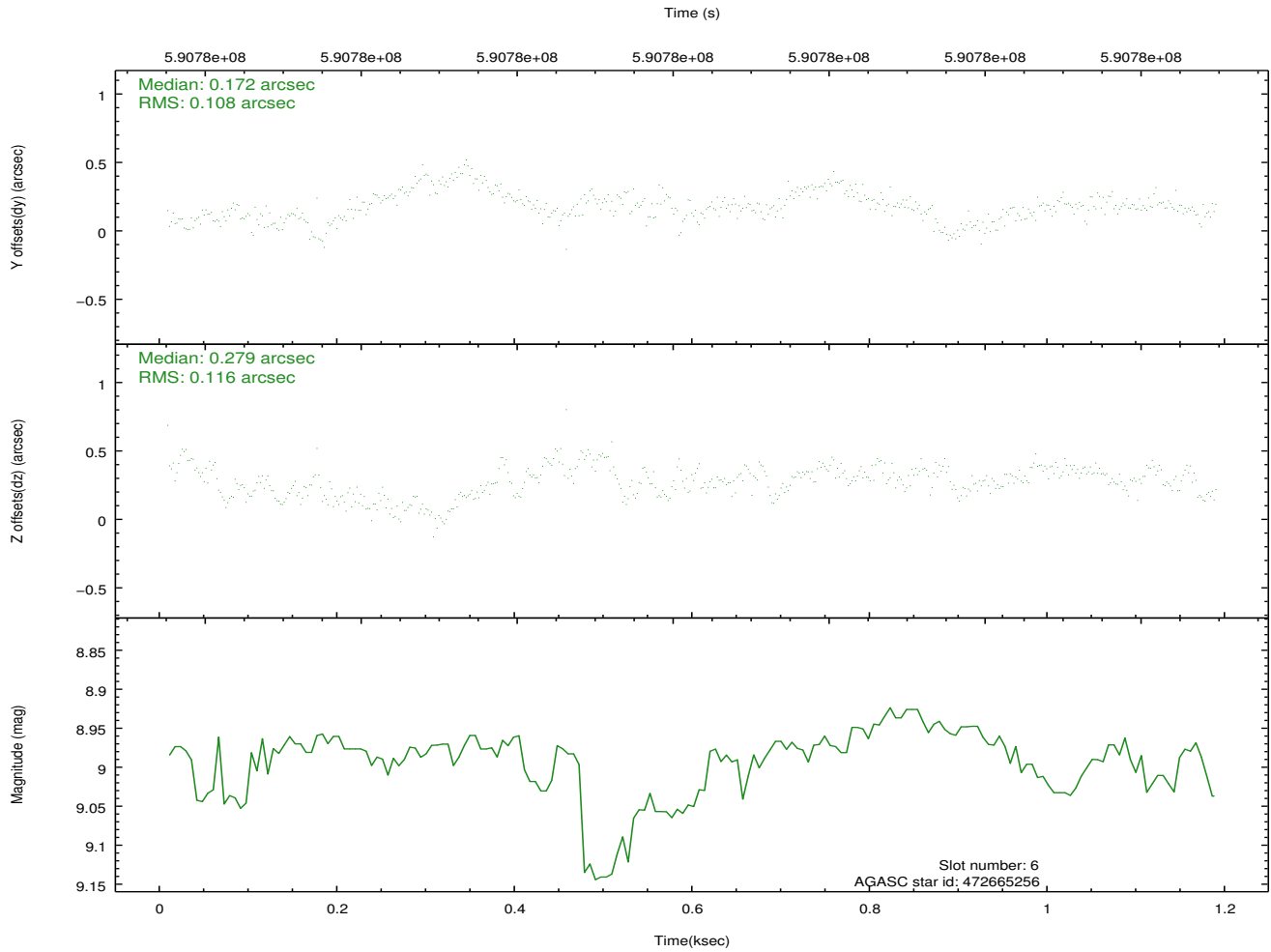
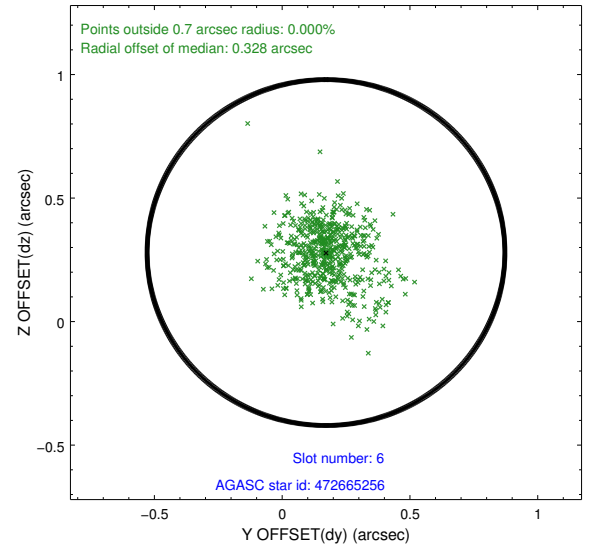
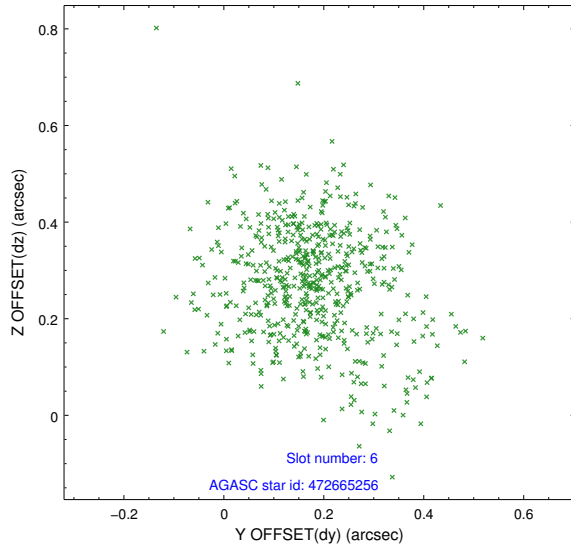
## 2.4.2 Slot 4



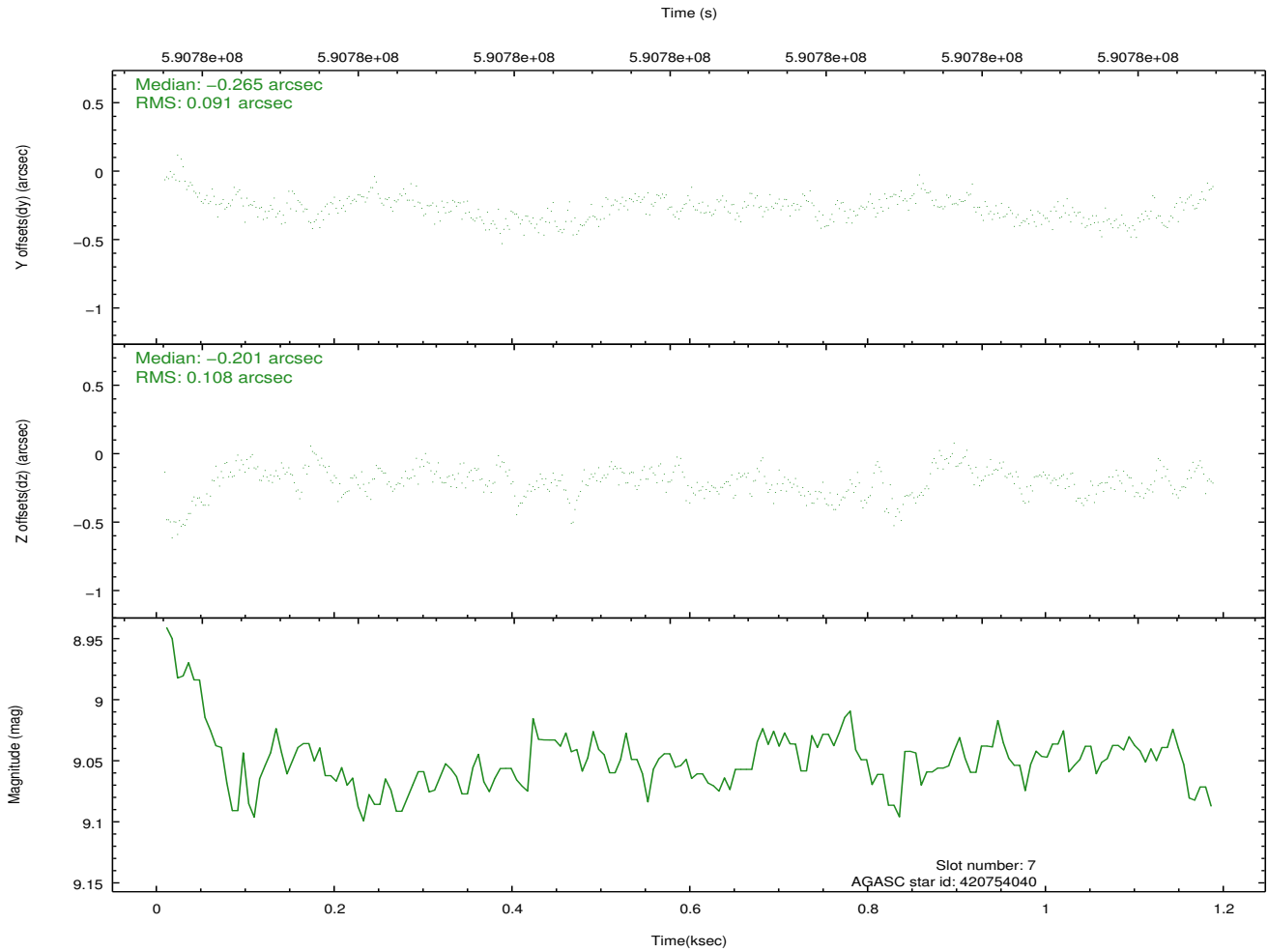
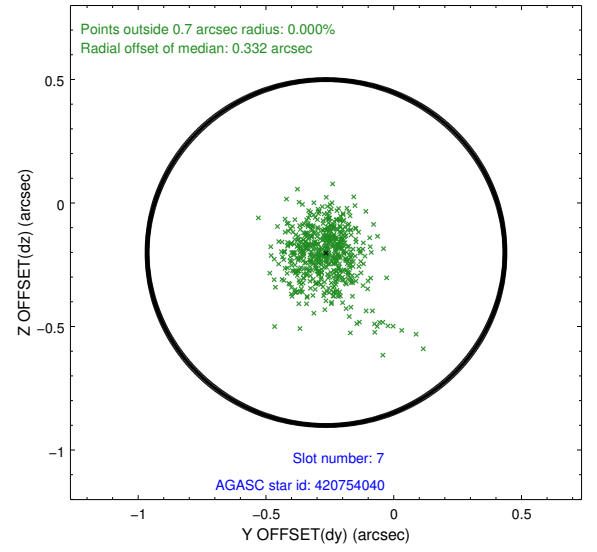
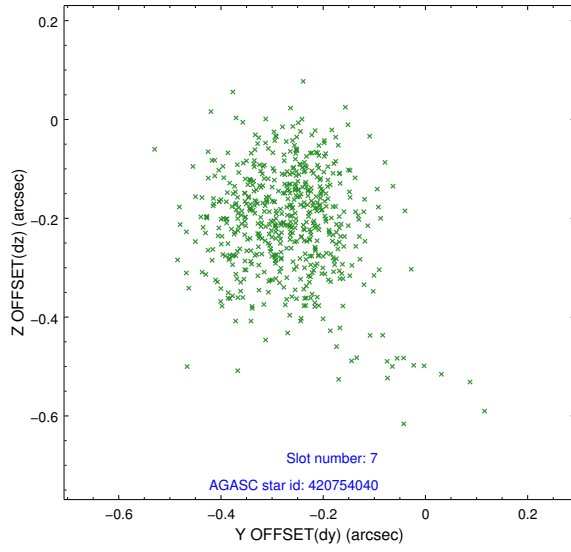
### 2.4.3 Slot 5



## 2.4.4 Slot 6

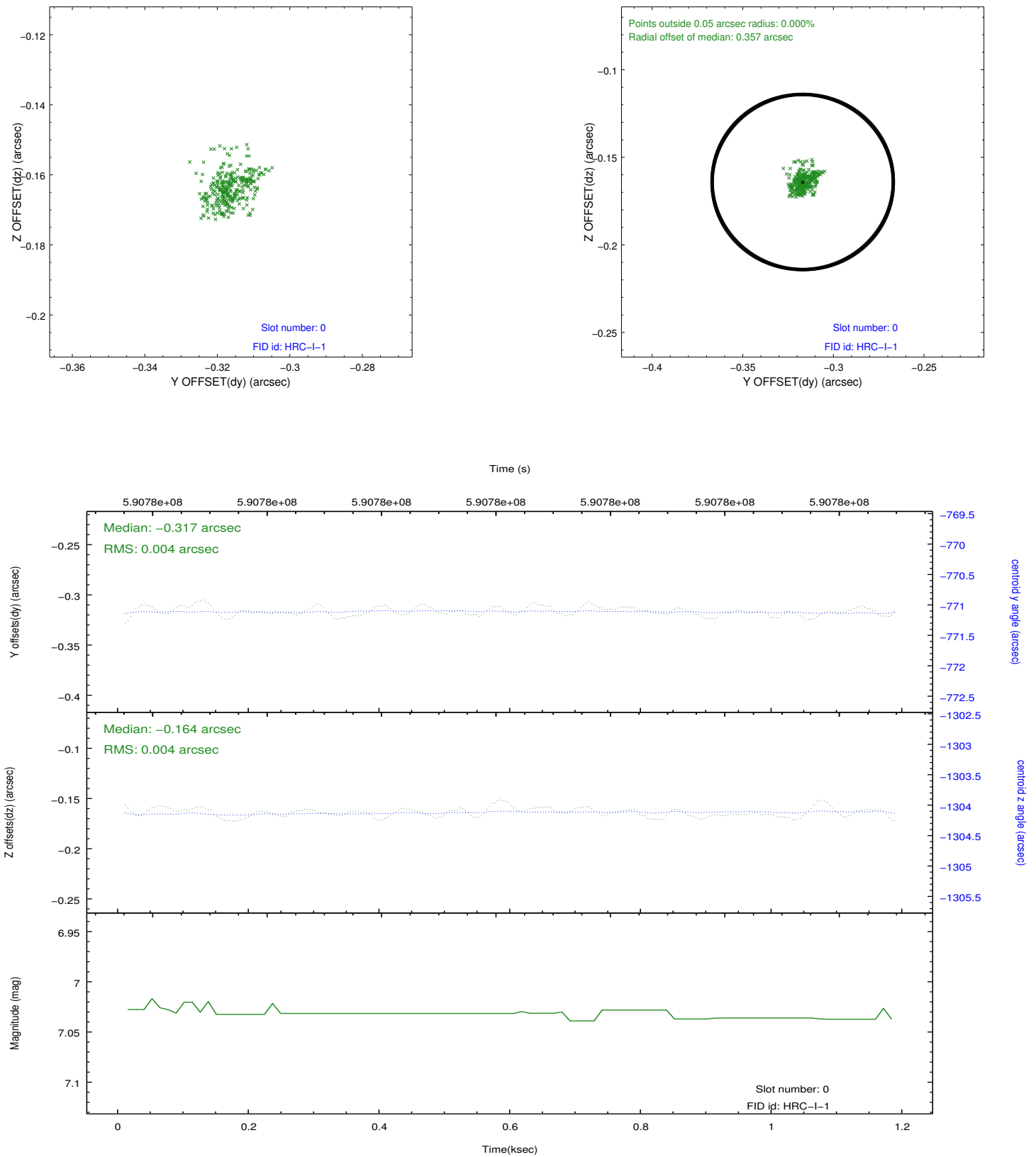


## 2.4.5 Slot 7

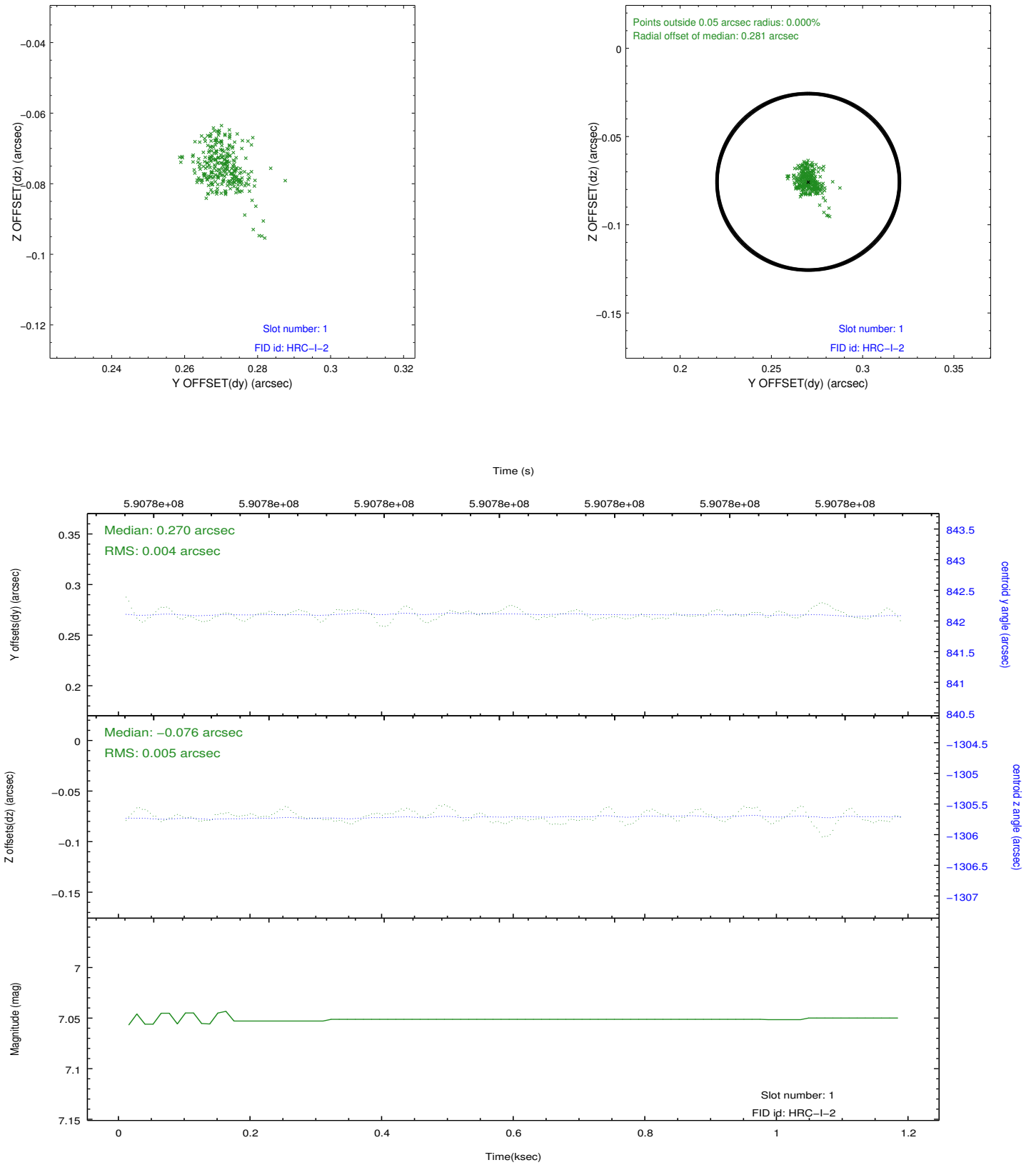


## 2.5 FID Slots

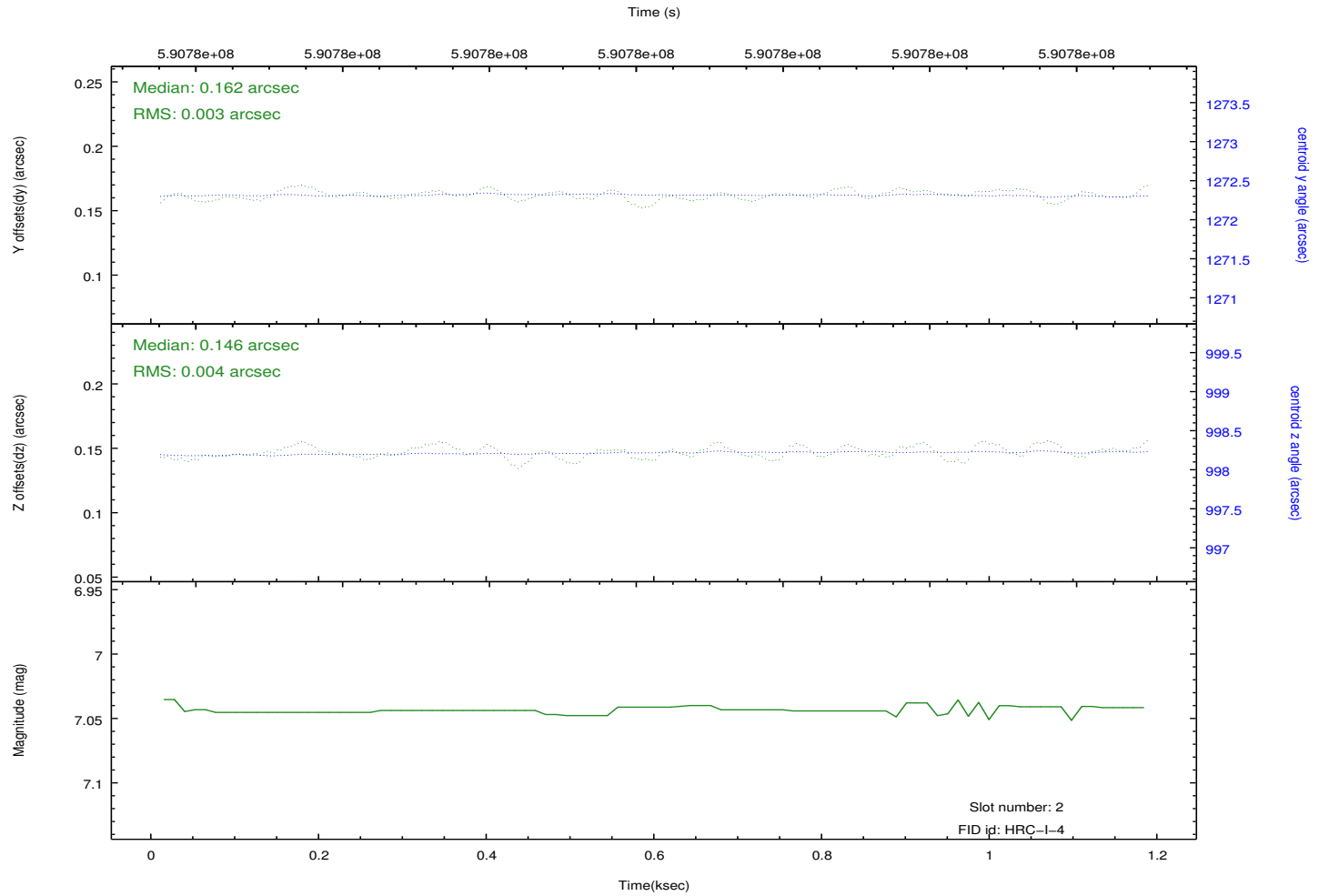
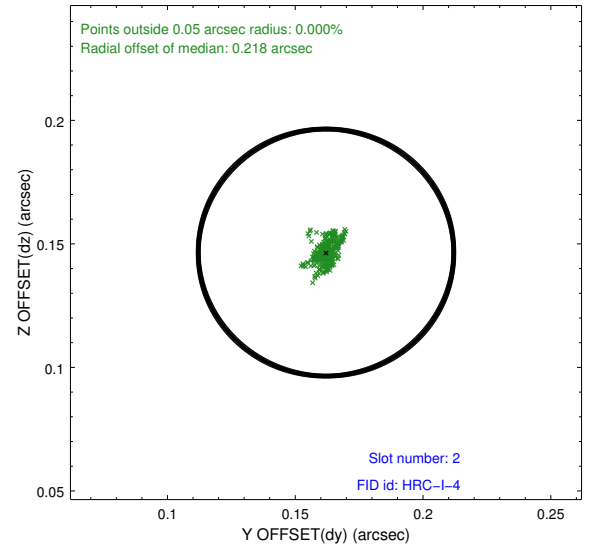
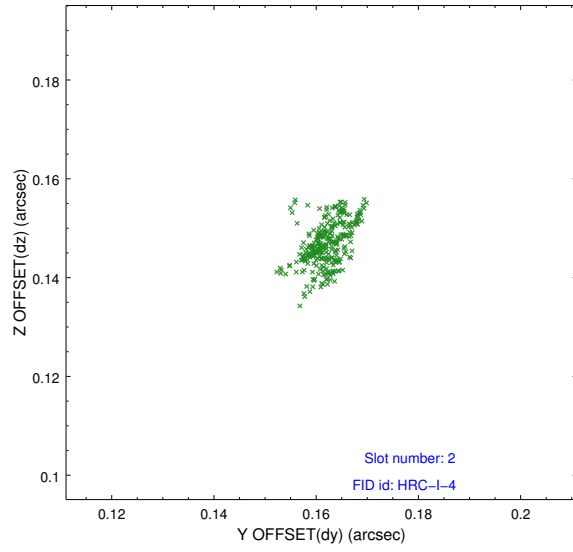
### 2.5.1 Slot 0



## 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)	2016.09.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1800313179493

### A.2 Comments