

# V&V Reference Report

## L2 ASCDS Version : 10.5.1.1

Observation 18395 - L2 Version 1  
Chandra X-Ray Center

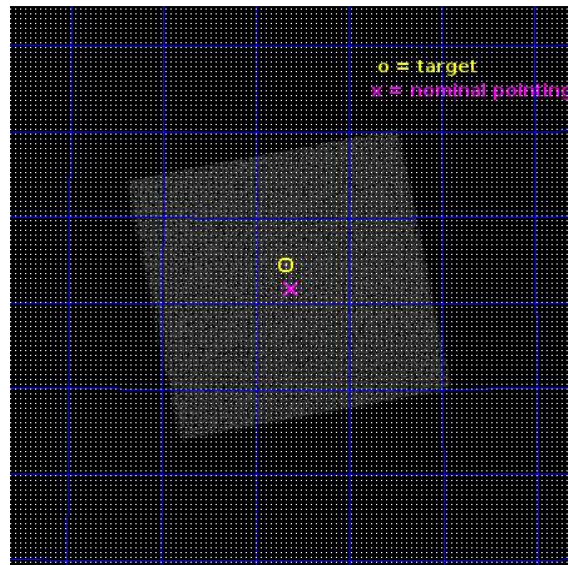
L2 Processing Date : Sep 20 2016

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# 1 Front

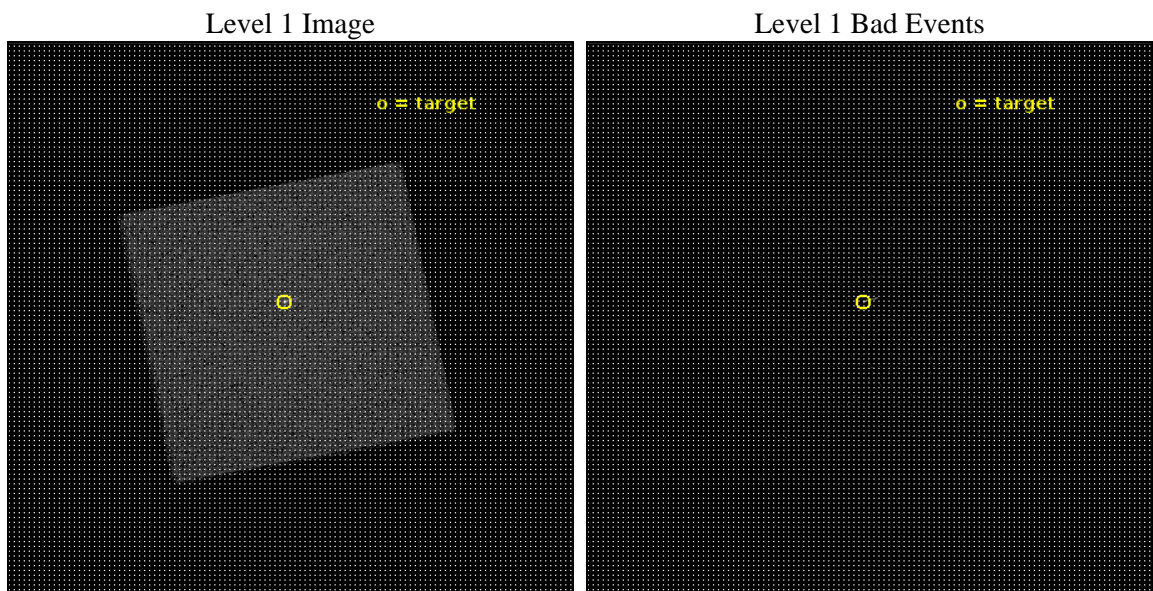
seq_num	291290	Sequence number
obs_id	18395	Observation id
title	AO-17 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.15410059801	Nominal RA [deg]
dec_nom	45.695590028969	Nominal Dec [deg]
roll_nom	213.85475951775	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1175.6750677824	[s]
livetime	1161.8352785337	Ontime multiplied by DTCOR
l2events	118138	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	1175.6750677824	[s]
caldbver	4.7.2	&#160	l1events	198930	Number of level 1 events
date	2016-09-21T02:07:45	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

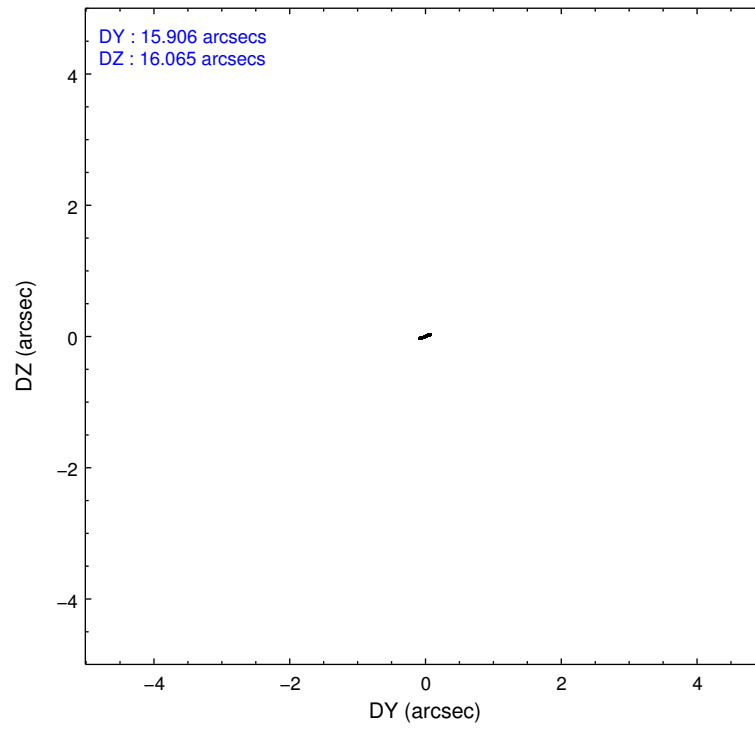
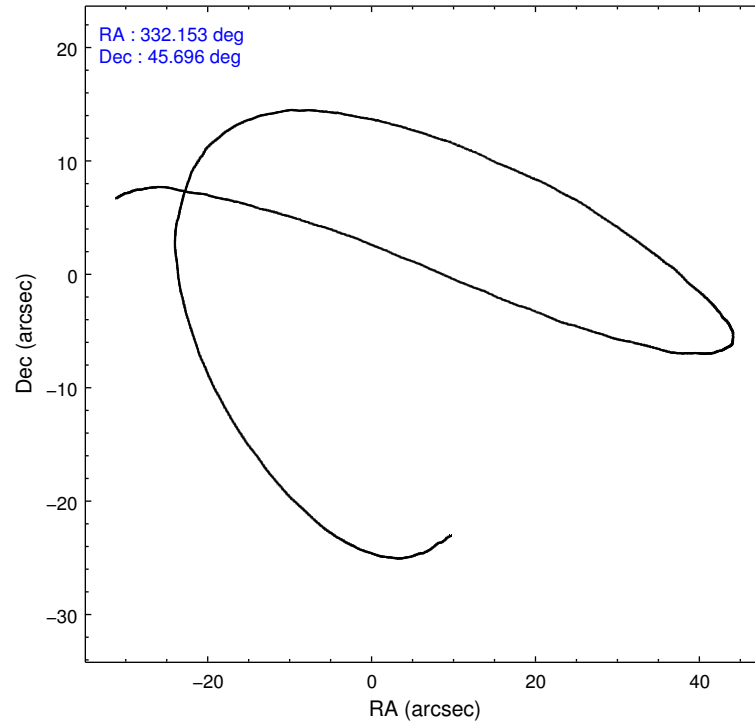
#### Level 1 Events

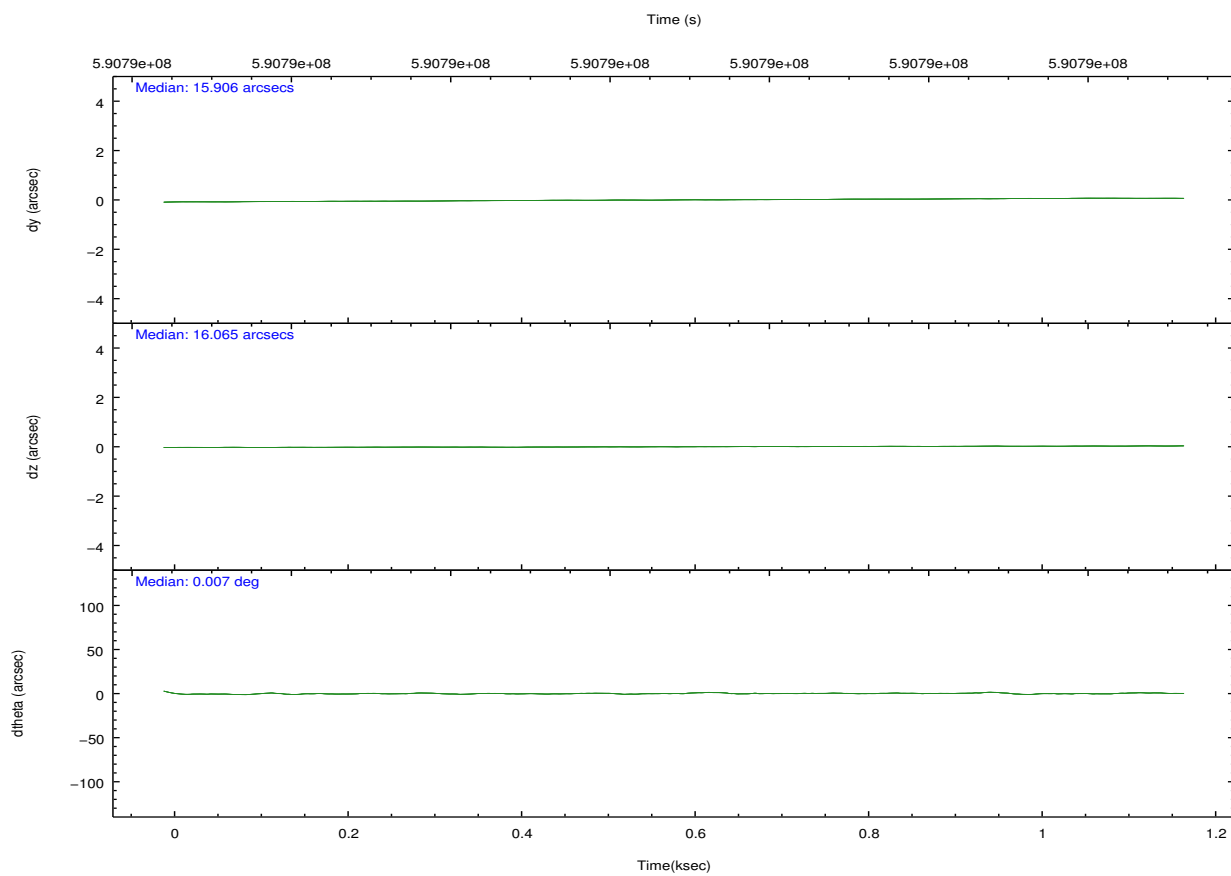
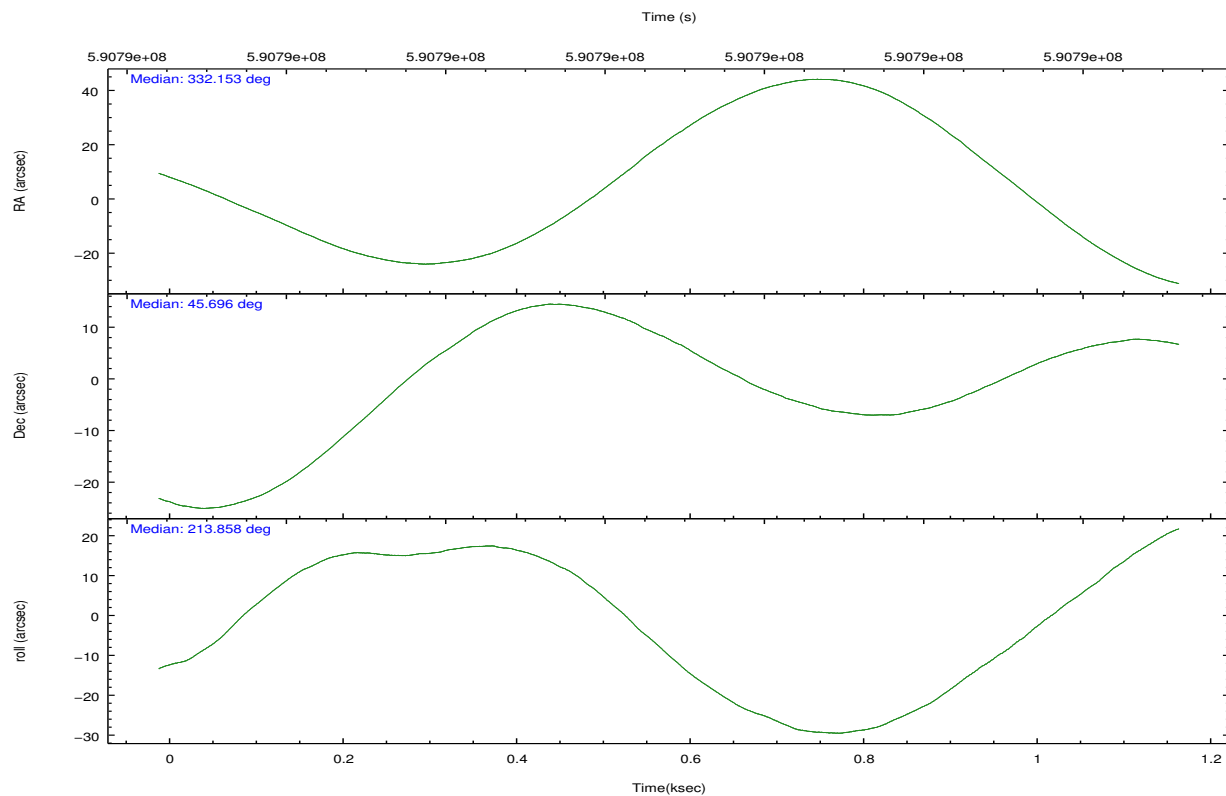
	<b>segment 0</b>
level 1 events	198930
rejected events	43922
rejected %	22%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.170837	332.1541005980093			
[deg] Pointing Dec	45.720655	45.69559002896868			
[deg] Pointing Roll	213.938305	213.8547595177522			
[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)	590788067.184000	590787691.20389			
Observation start date	2016-09-20T19:46:39	2016-09-20T19:41:31			
[s] Observation end time (MET)	590789067.184000	590789202.05397			
Observation end date	2016-09-20T20:03:19	2016-09-20T20:06:42			

## 2.3 Aspect





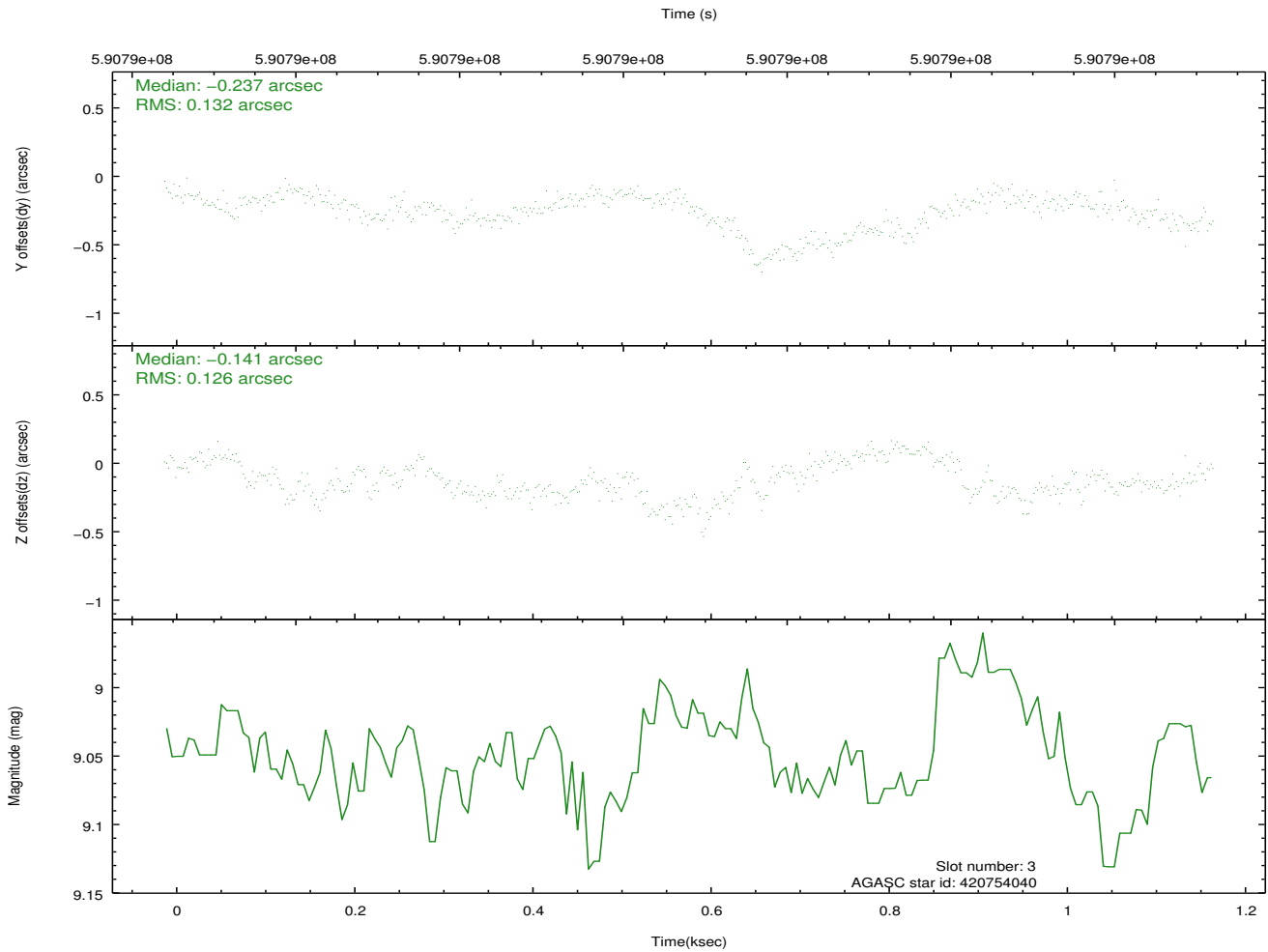
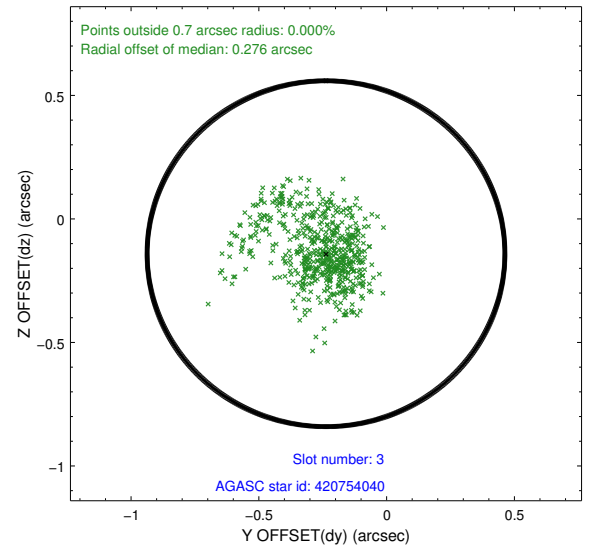
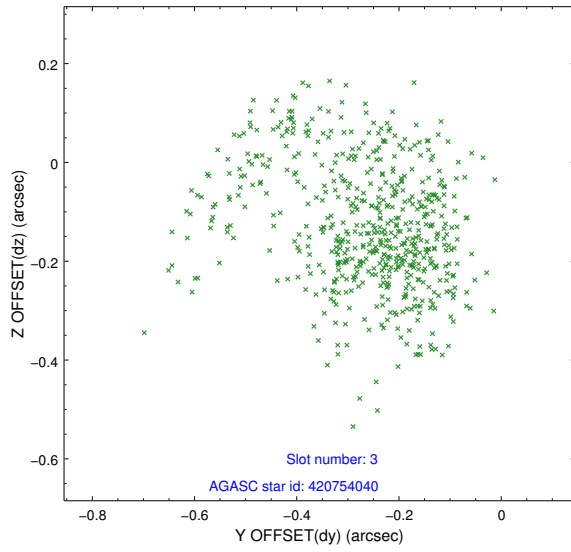
### Slot Statistics

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	287	-0.207	-0.035	0.007	0.011	0.000000	0.000000	-771.90	-1304.23
1	FID		HRC-I-2	7.06	287	0.368	-0.122	0.006	0.010	0.000000	0.000000	838.62	-1310.39
2	FID		HRC-I-3	7.13	287	-0.042	0.068	0.006	0.014	0.000000	0.000000	-1197.36	995.85
3	GUIDE	used	420754040	9.05	575	-0.237	-0.141	0.185	0.332	331.917939	44.882543	2216.19	2142.34
4	GUIDE	used	472523760	8.21	575	0.121	-0.140	0.102	0.177	331.645363	45.403260	1740.65	206.08
5	GUIDE	used	472525528	6.64	575	-0.477	0.082	0.099	0.164	331.551102	45.248694	2249.98	527.76
6	GUIDE	used	472655152	9.41	573	0.211	-0.146	0.208	0.313	332.504239	45.862991	-977.23	40.88
7	GUIDE	used	472665256	8.99	573	0.404	0.345	0.114	0.190	332.808125	46.195041	-2276.76	-535.22

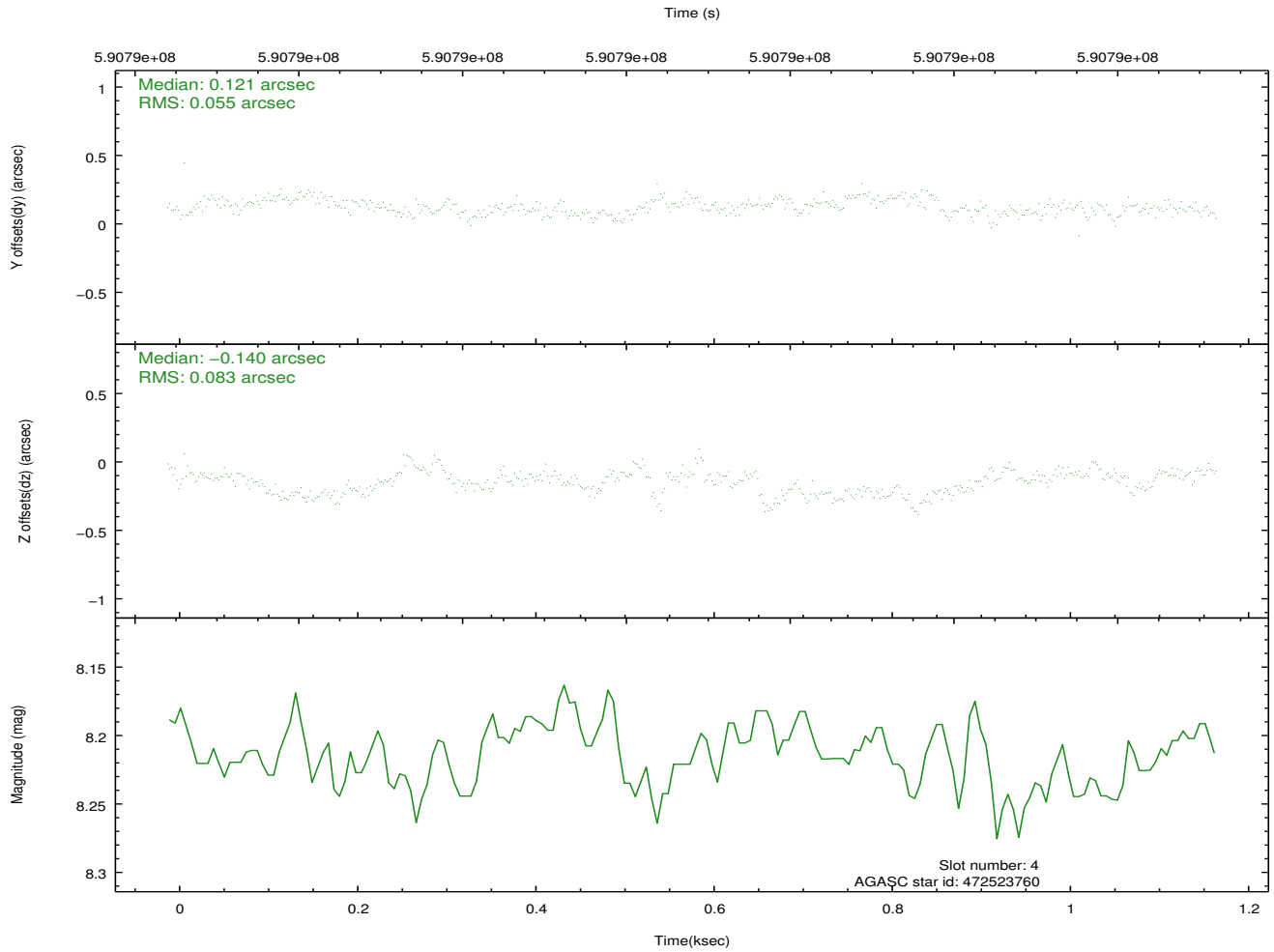
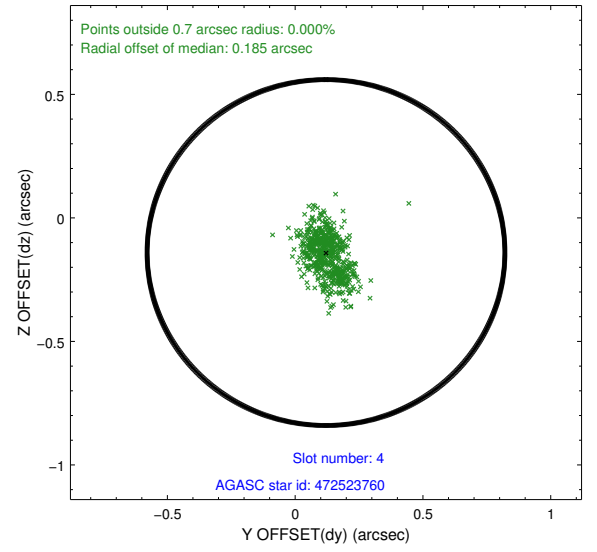
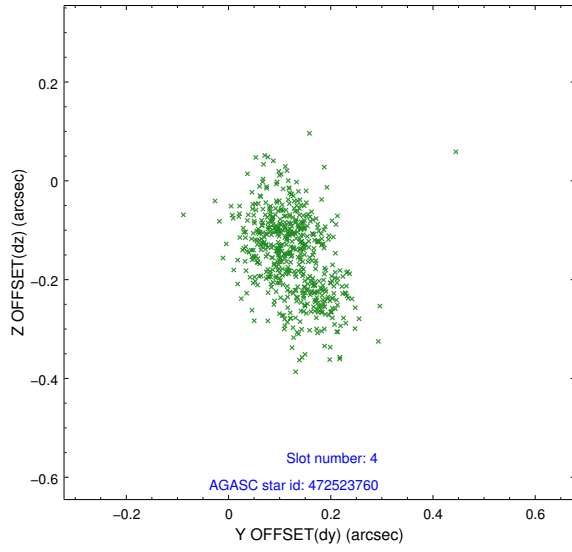


## 2.4 Star Slots

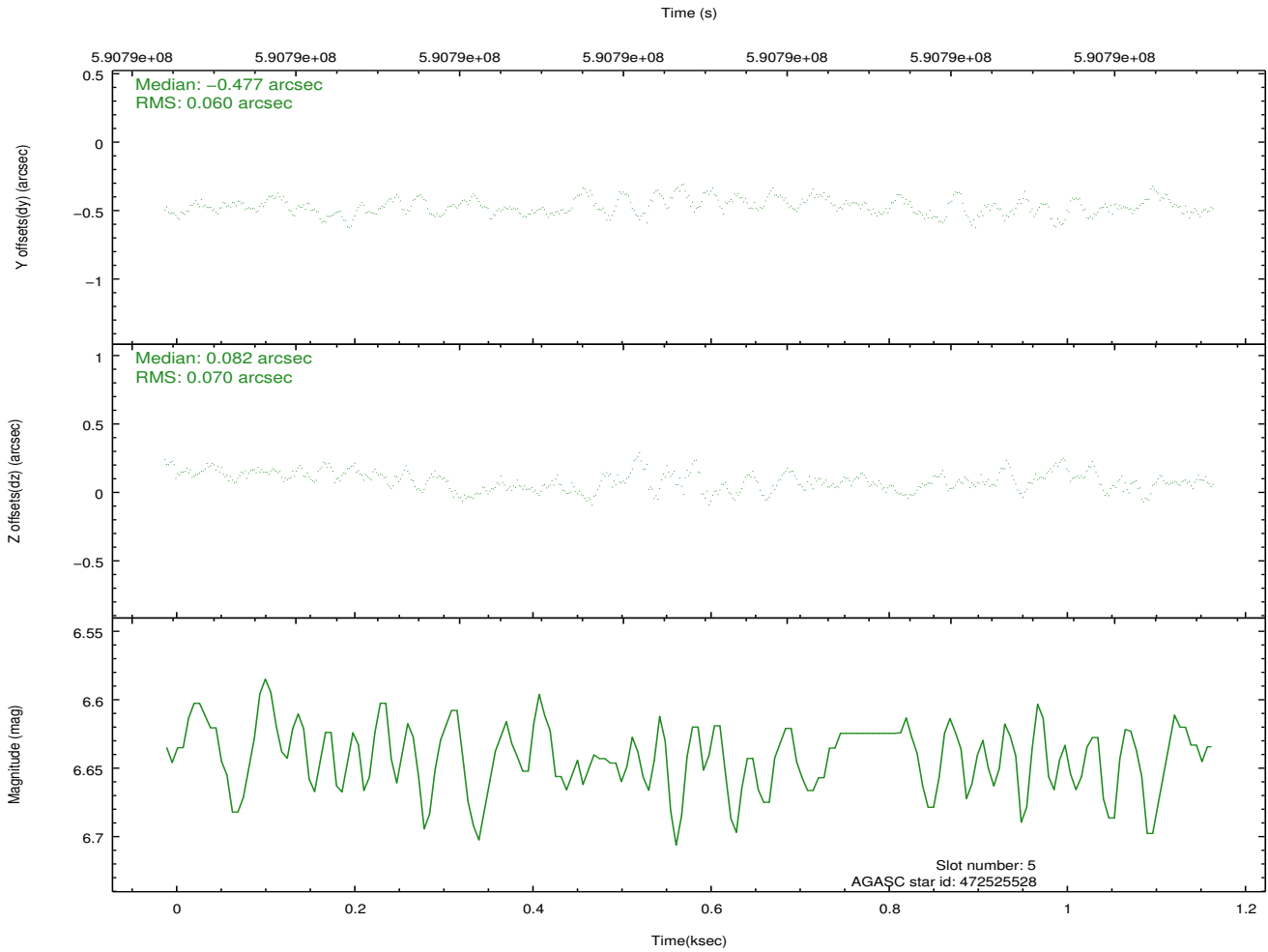
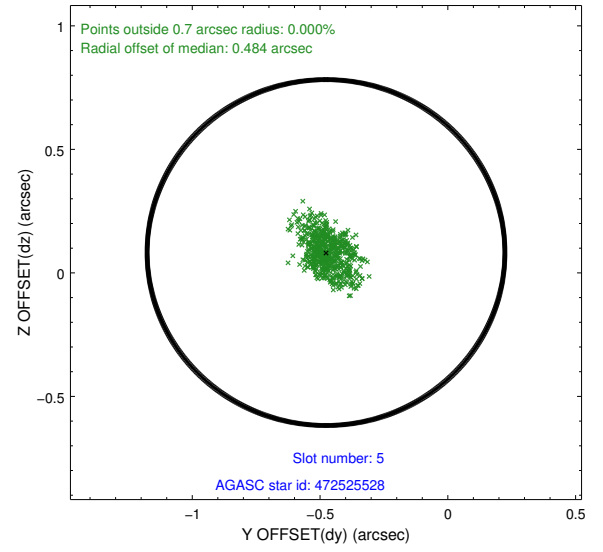
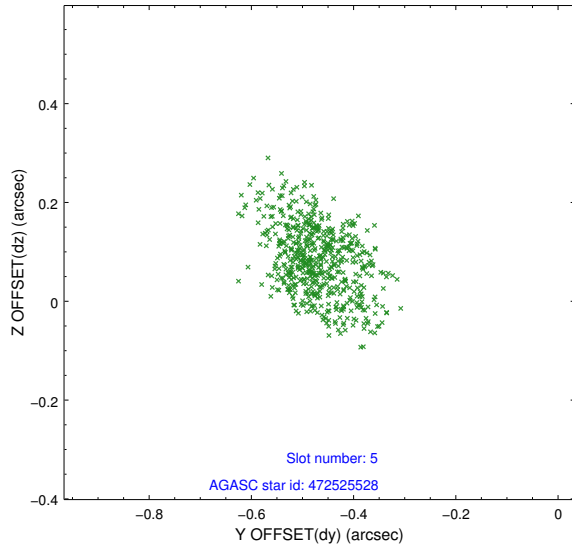
### 2.4.1 Slot 3



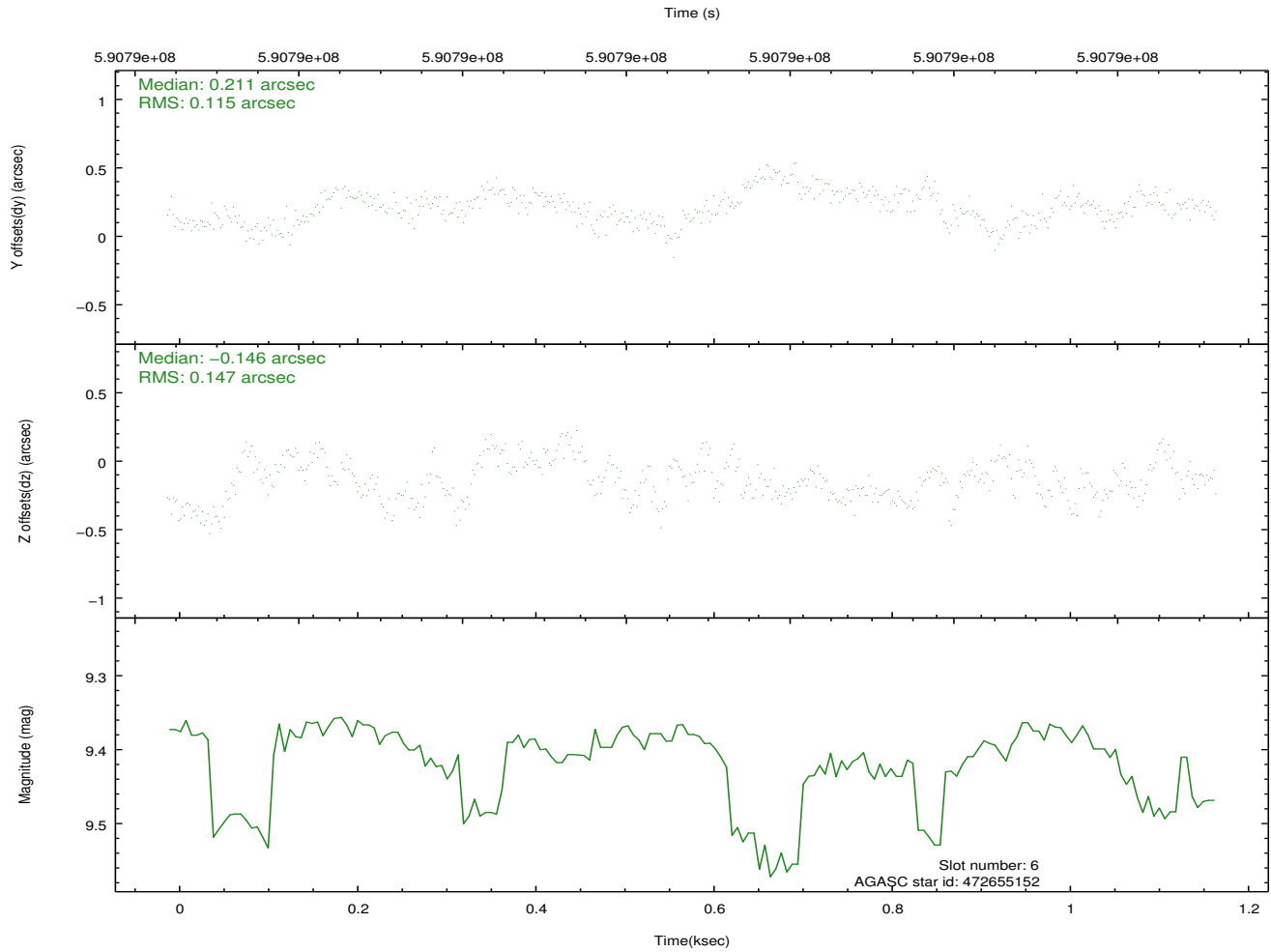
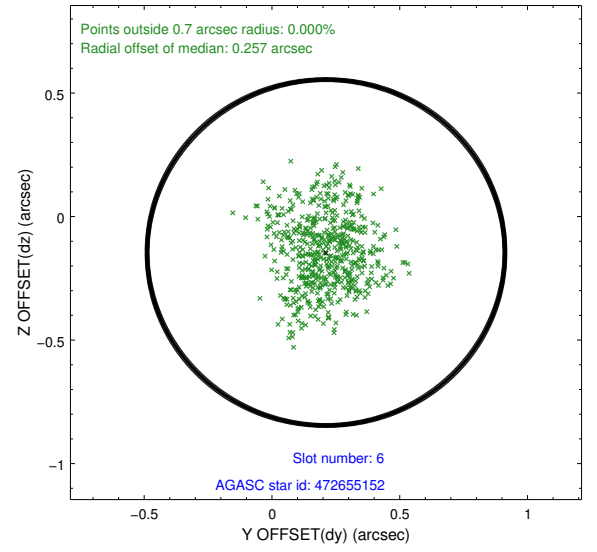
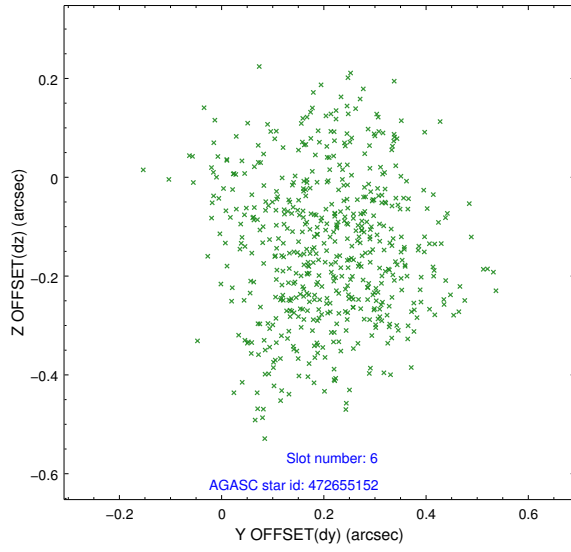
## 2.4.2 Slot 4



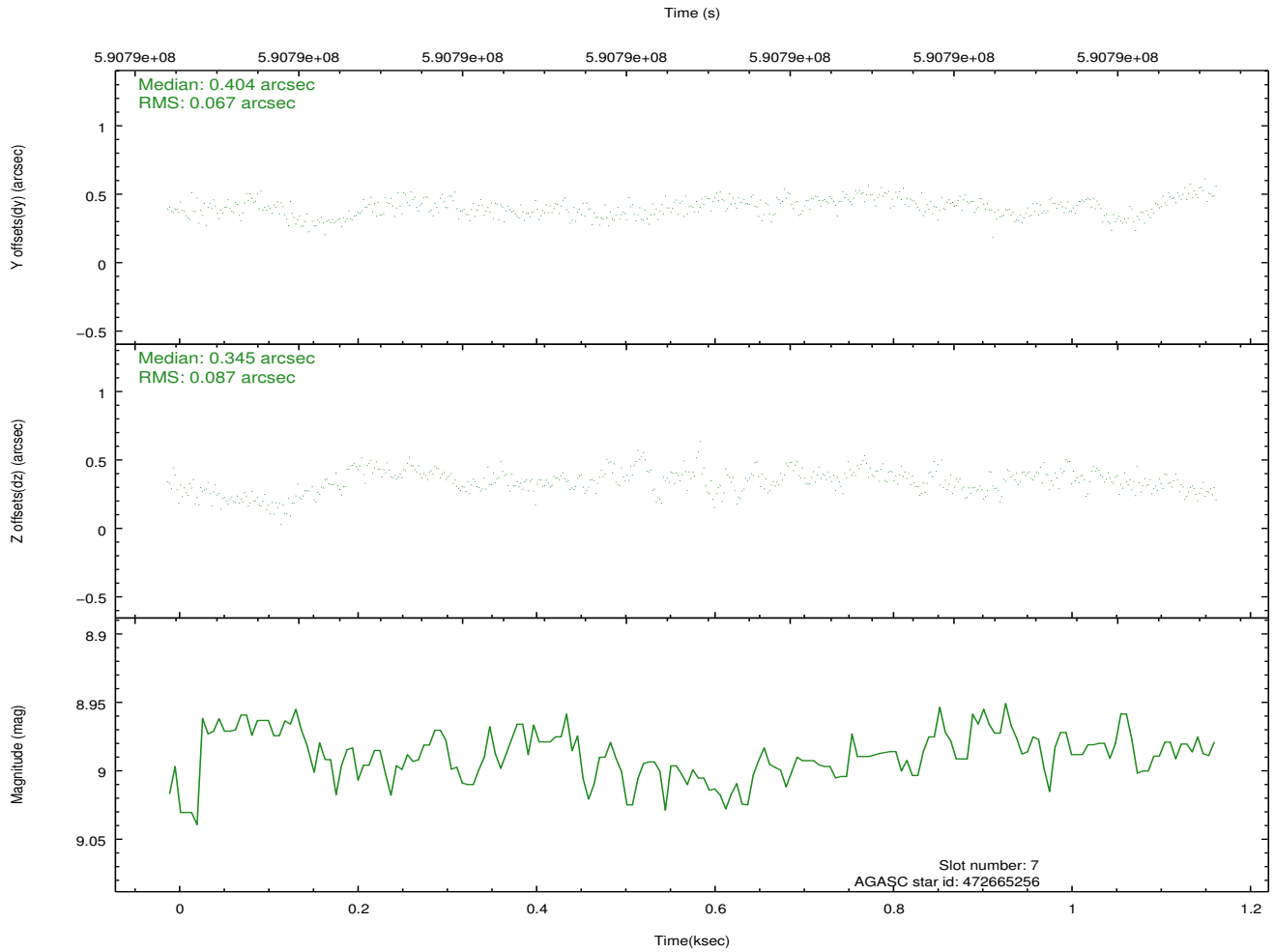
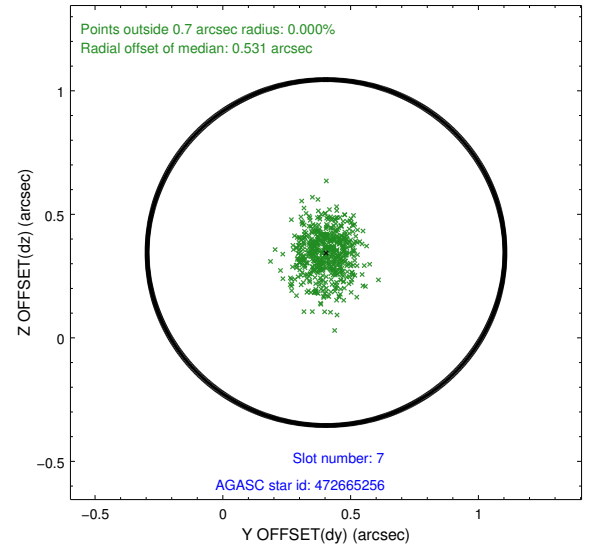
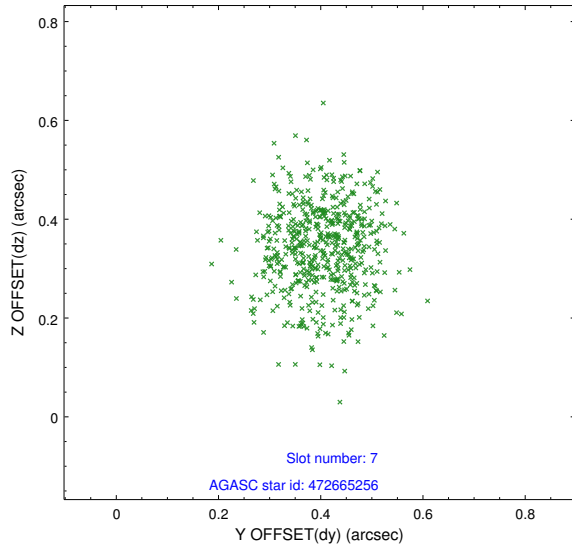
### 2.4.3 Slot 5



## 2.4.4 Slot 6

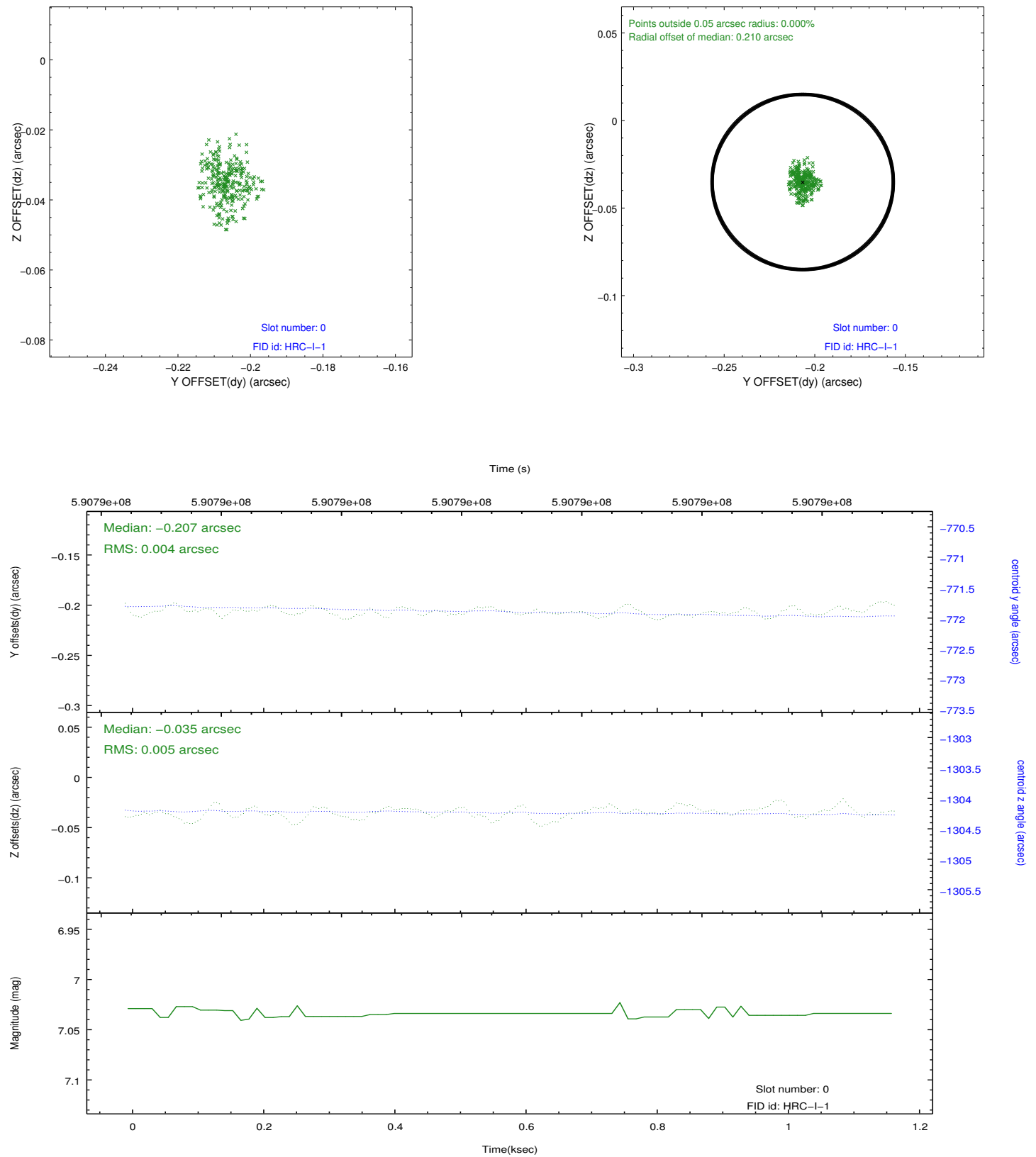


## 2.4.5 Slot 7

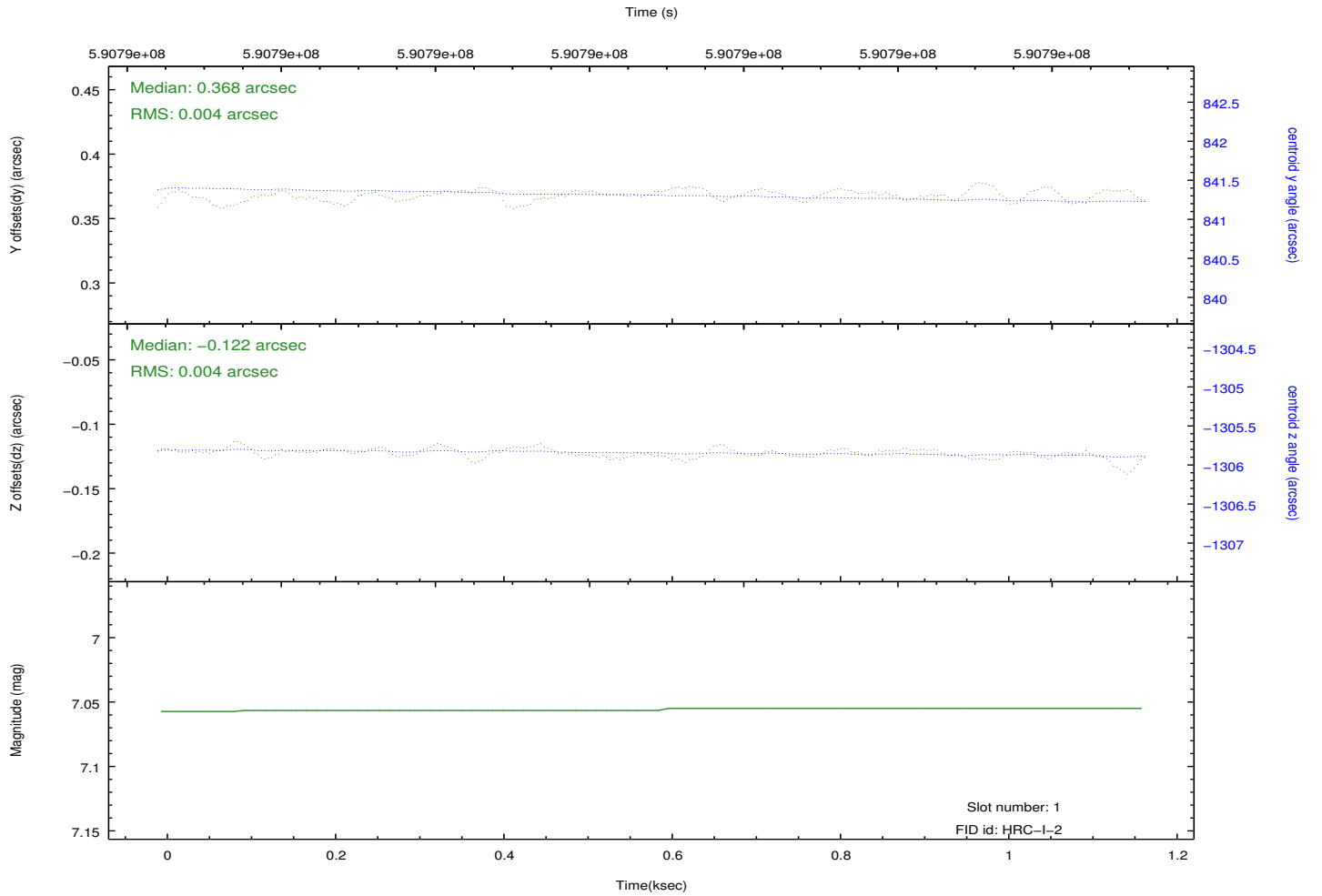
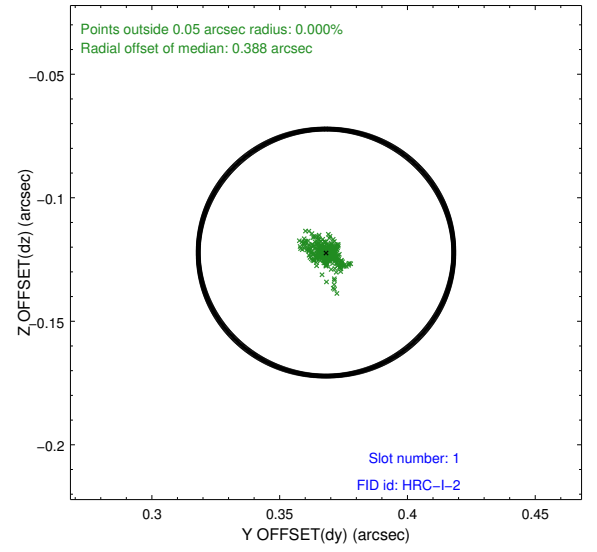
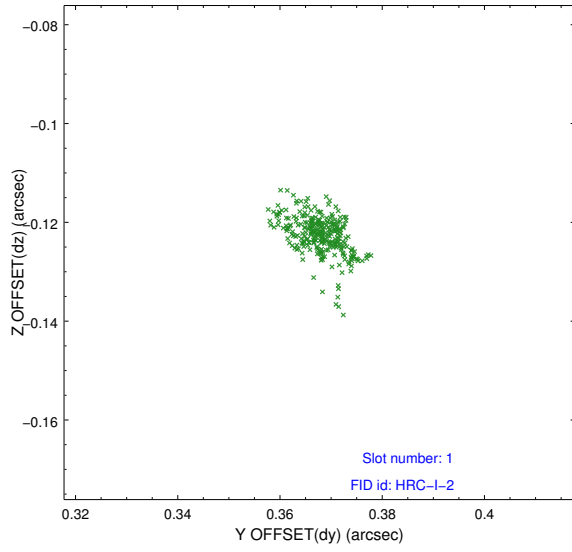


## 2.5 FID Slots

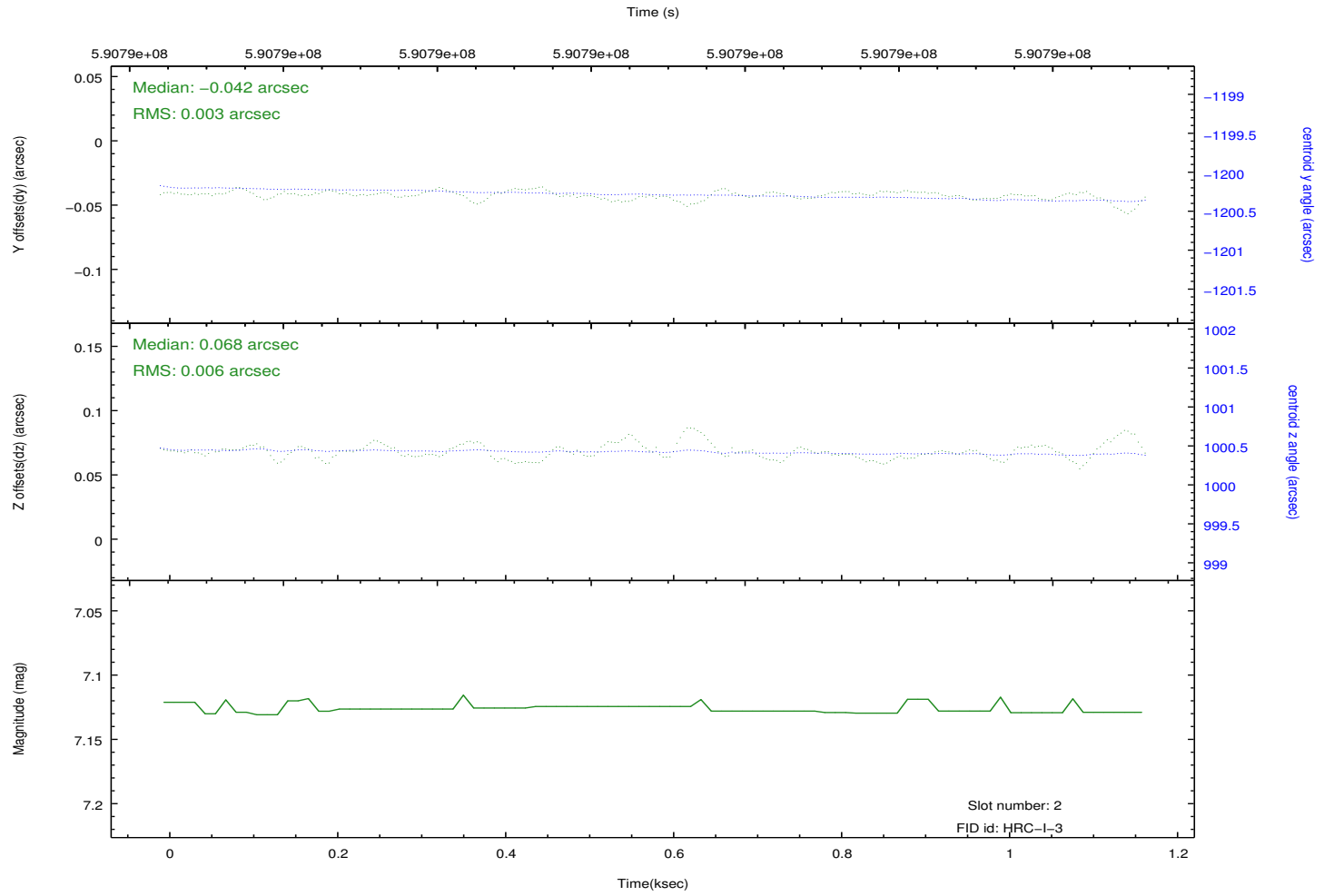
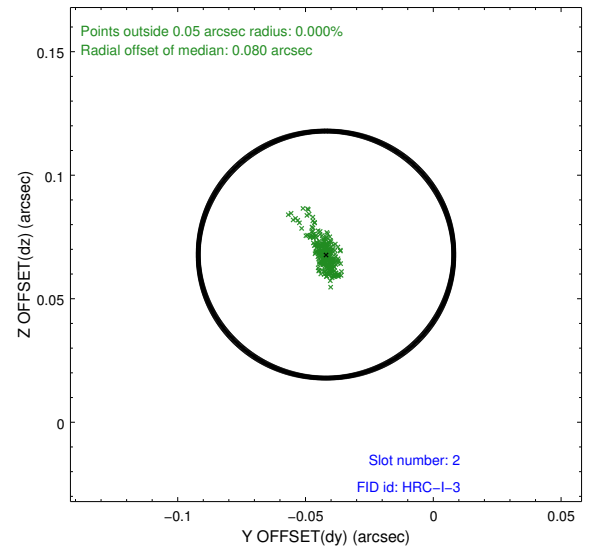
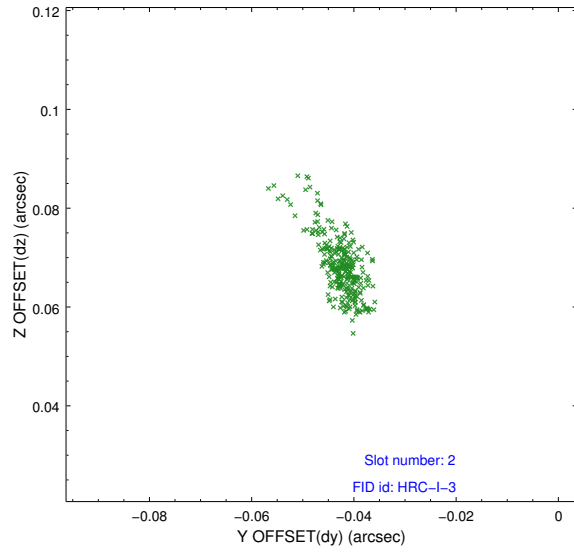
### 2.5.1 Slot 0



## 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	1.1756750677824

### A.2 Comments