

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 17337 - L2 Version 1  
Chandra X-Ray Center

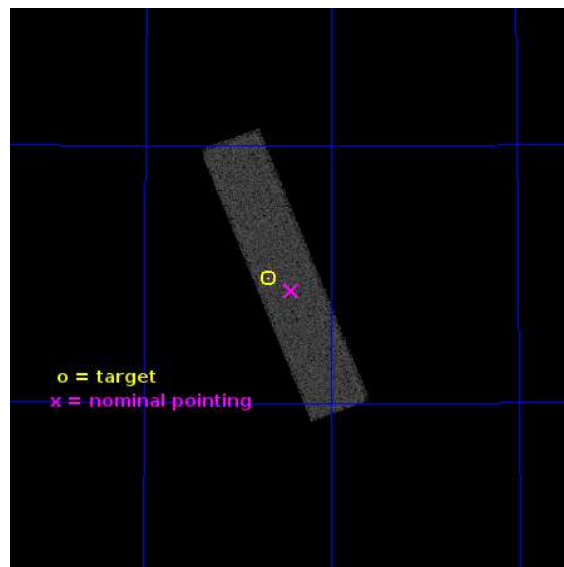
L2 Processing Date : Oct 20 2015

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# 1 Front

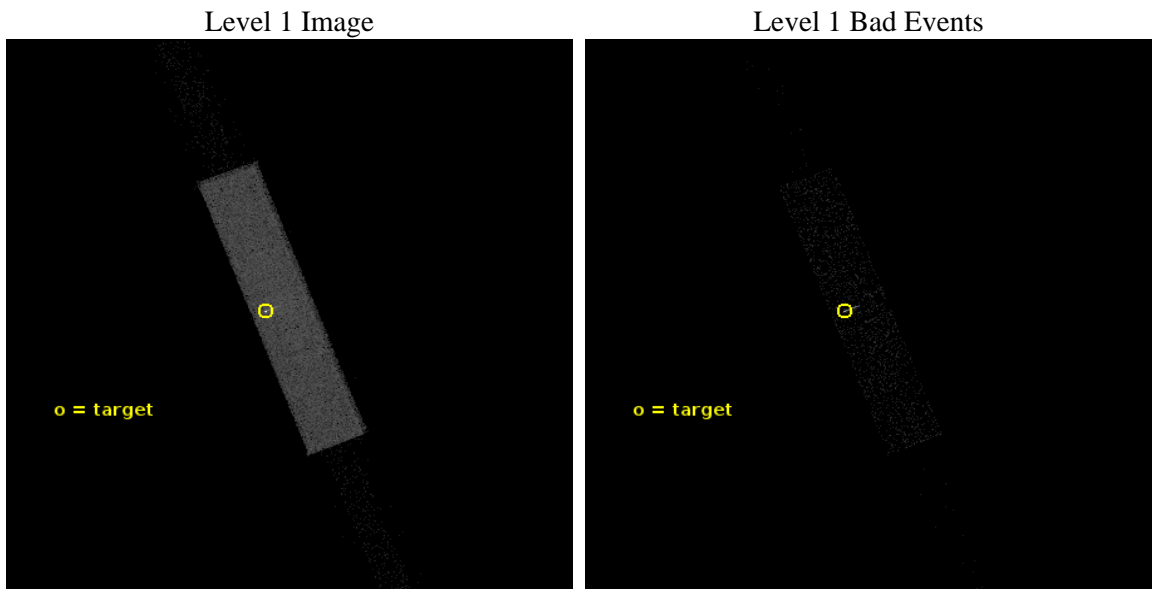
seq_num	291210	Sequence number
obs_id	17337	Observation id
title	AO-16 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.1063414287	Nominal RA [deg]
dec_nom	45.718463933761	Nominal Dec [deg]
roll_nom	248.50198033162	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1149.0250651836	[s]
livetime	1141.9853669889	Ontime multiplied by DTCOR
l2events	53217	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	1149.0250651836	[s]
caldsver	4.6.10a	&#160	l1events	82472	Number of level 1 events
date	2015-10-20T22:42:14	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

Level 1 Events

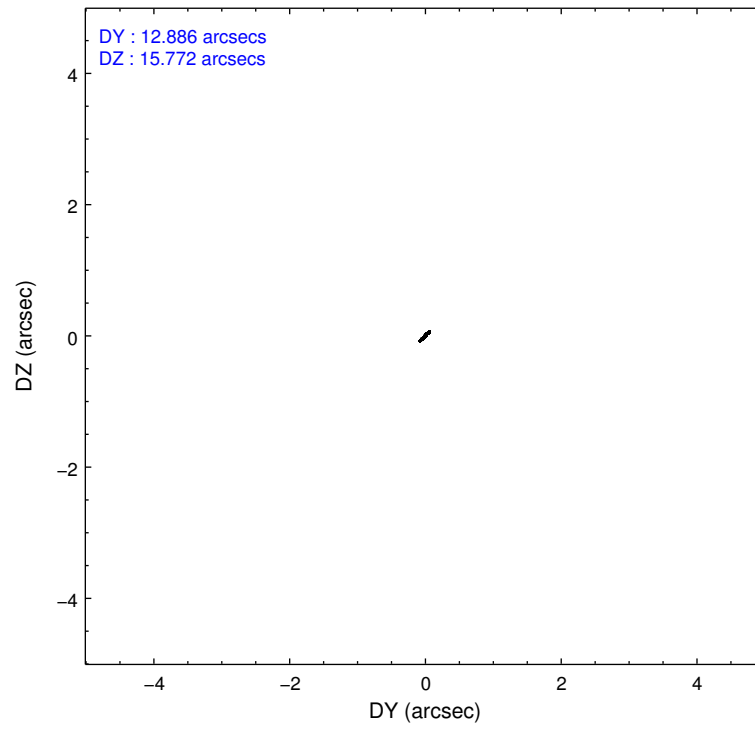
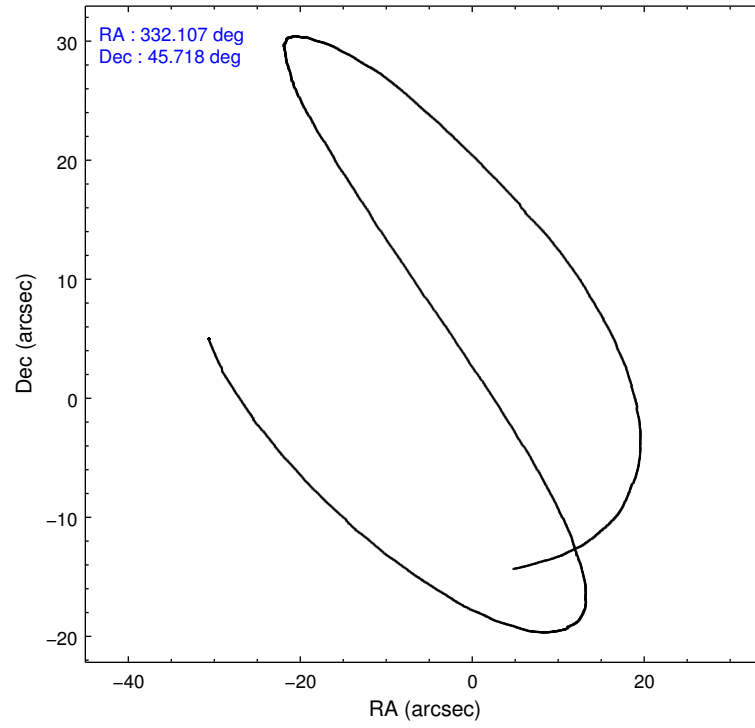
	segment 1	segment 2	segment 3
level 1 events	681	81166	625
rejected events	681	18517	625
rejected %	100%	22%	100%

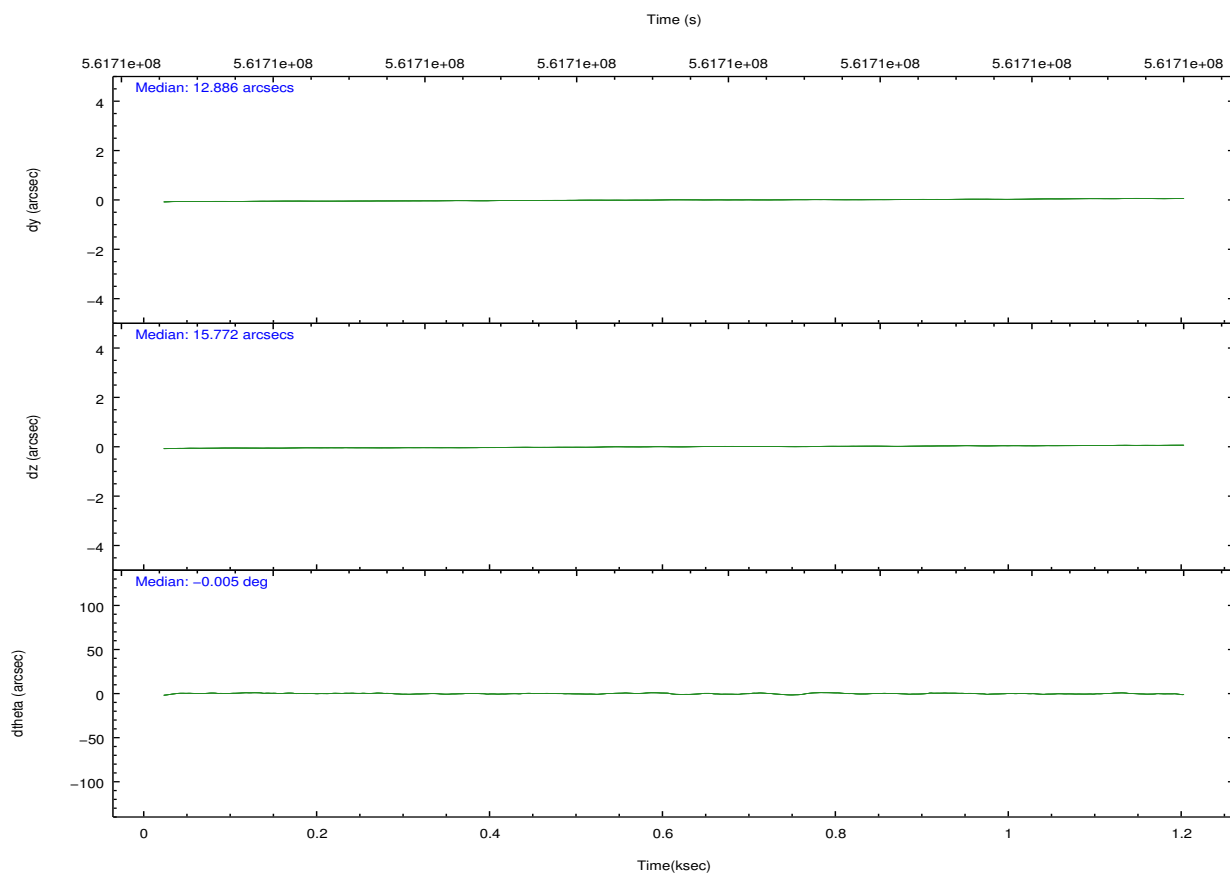
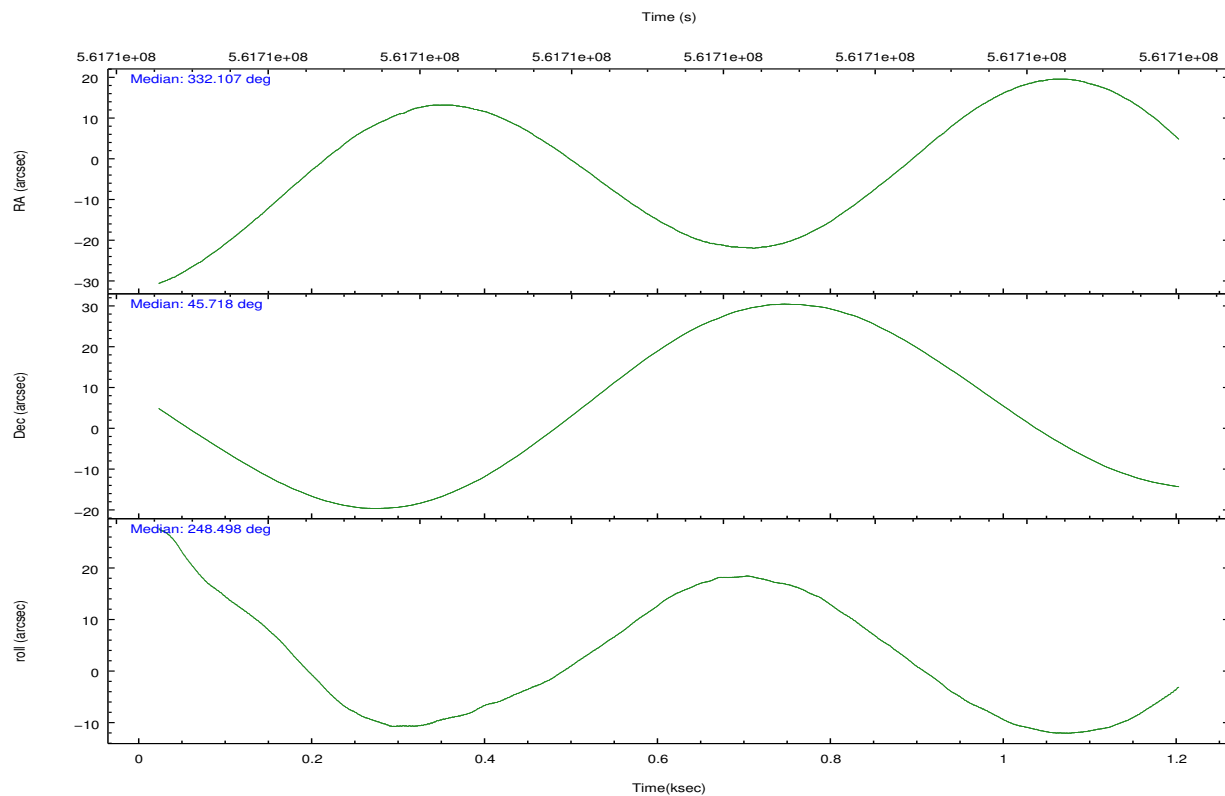
## 2.2 Compared Parameters

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	332.097328	332.1063414287041
[deg] Pointing Dec	45.747313	45.71846393376076
[deg] Pointing Roll	248.441069	248.501980331616
[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)	561707723.184000	561707346.95875
Observation start date	2015-10-20T05:54:15	2015-10-20T05:49:06
[s] Observation end time (MET)	561708723.184000	561708856.78383
Observation end date	2015-10-20T06:10:55	2015-10-20T06:14:16

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

## 2.3 Aspect





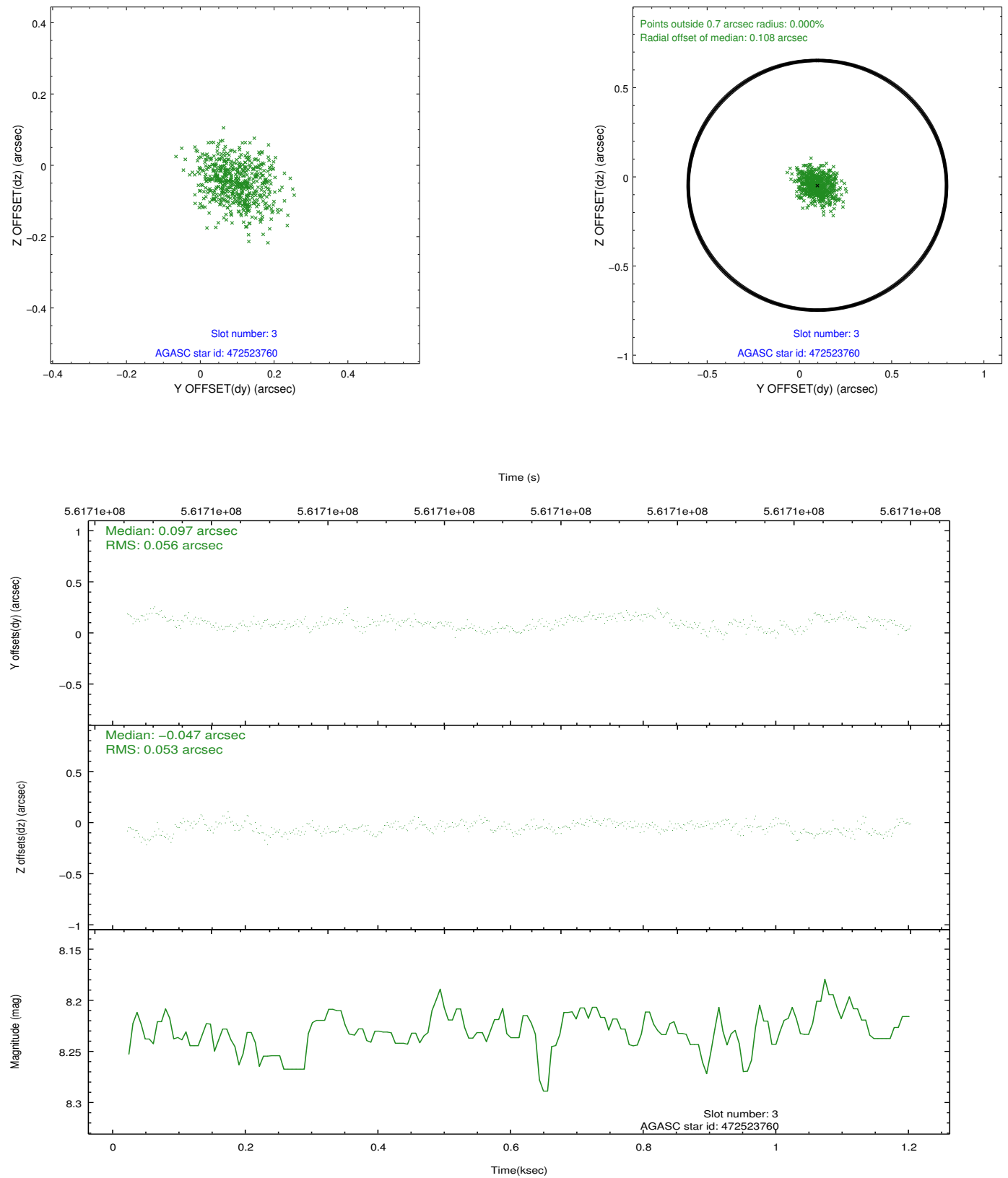
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.01	288	0.000	-0.200	0.007	0.011	0.000000	0.000000	-1167.28	-464.70
1	FID		HRC-S-2	7.01	288	0.355	-0.141	0.005	0.009	0.000000	0.000000	1228.68	-458.84
2	FID		HRC-S-3	7.01	288	0.035	0.038	0.007	0.012	0.000000	0.000000	-1165.72	563.46
3	GUIDE	used	472523760	8.23	575	0.097	-0.047	0.082	0.133	331.645363	45.403260	1568.46	-611.09
4	GUIDE	used	472535576	7.84	577	-0.033	0.123	0.091	0.150	331.438373	46.291802	-1224.79	-2250.82
5	GUIDE	used	472536328	8.10	577	0.032	0.201	0.080	0.132	331.496671	46.454831	-1829.28	-2329.90
6	GUIDE	used	472655152	9.40	574	-0.059	-0.076	0.146	0.254	332.504239	45.862991	-768.30	788.30
7	GUIDE	used	472665256	8.99	576	-0.018	-0.209	0.113	0.202	332.808125	46.195041	-2159.24	1050.75

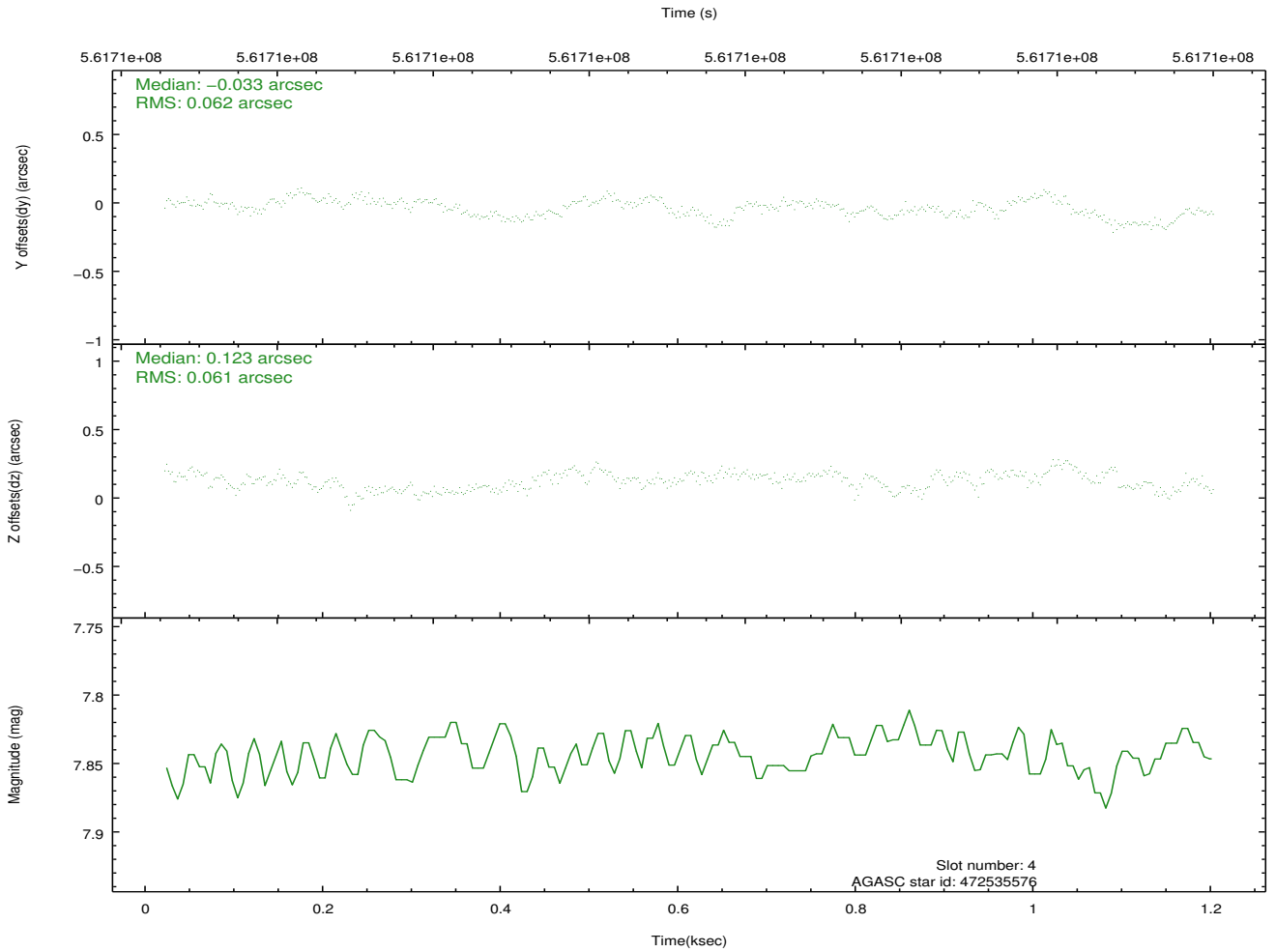
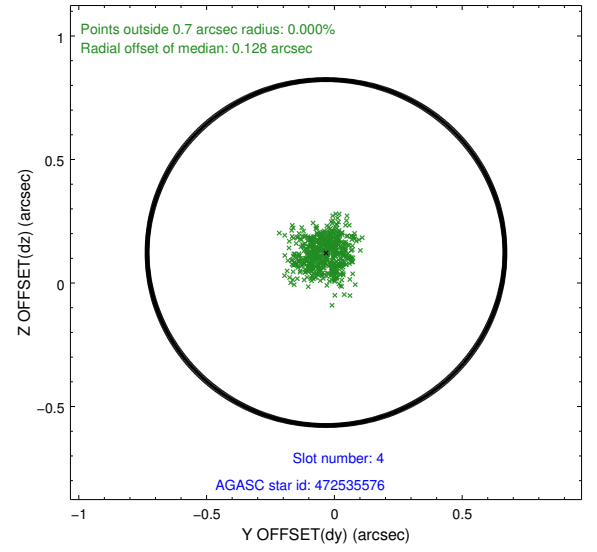
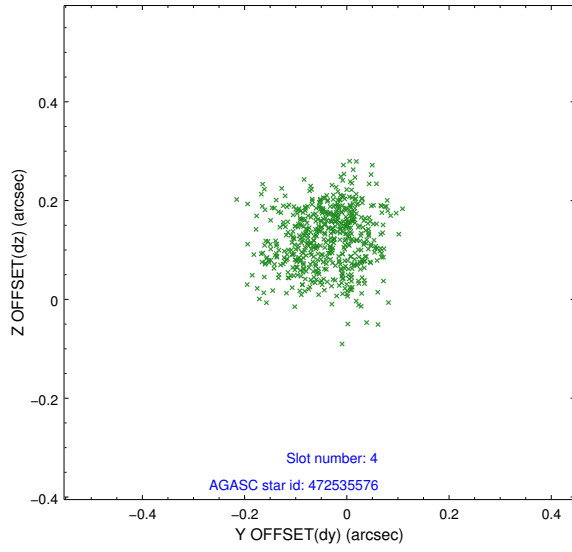


## 2.4 Star Slots

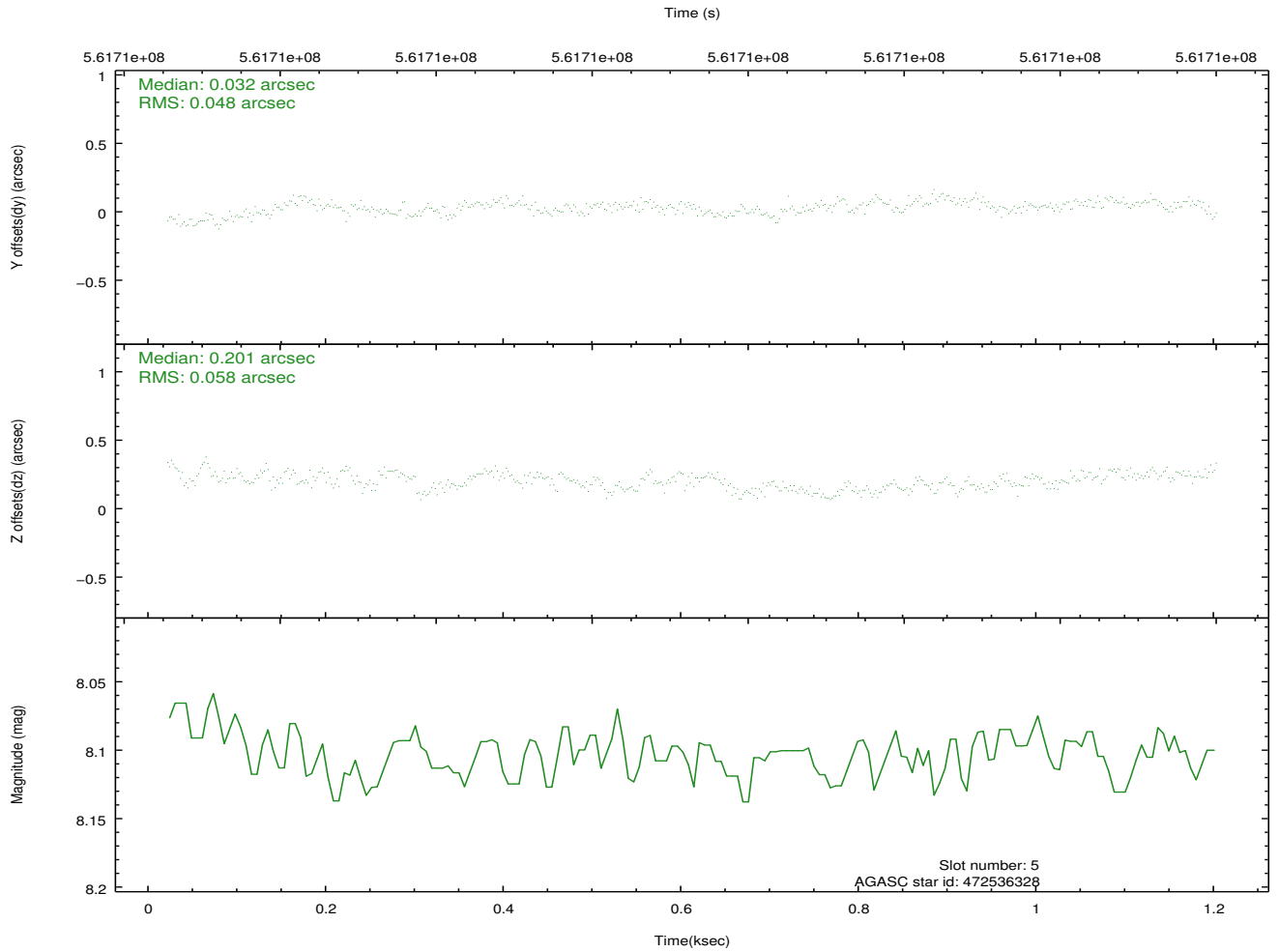
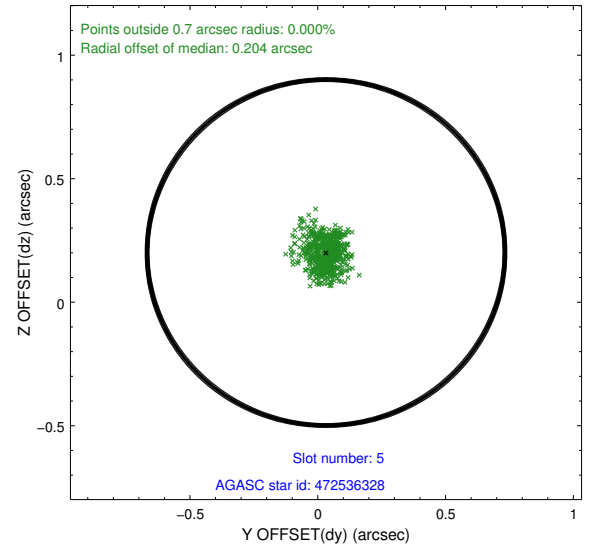
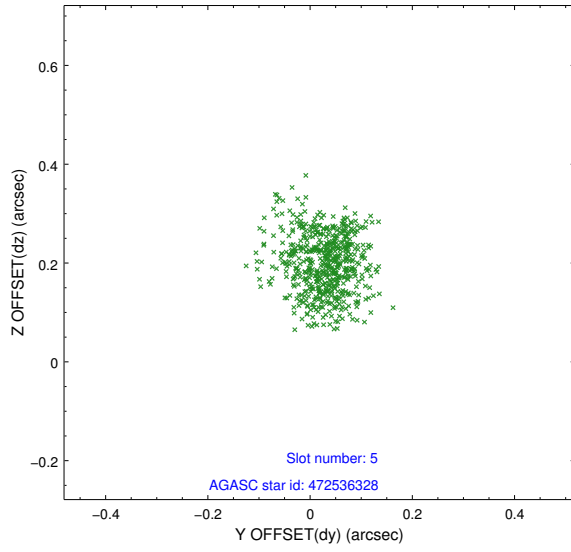
### 2.4.1 Slot 3



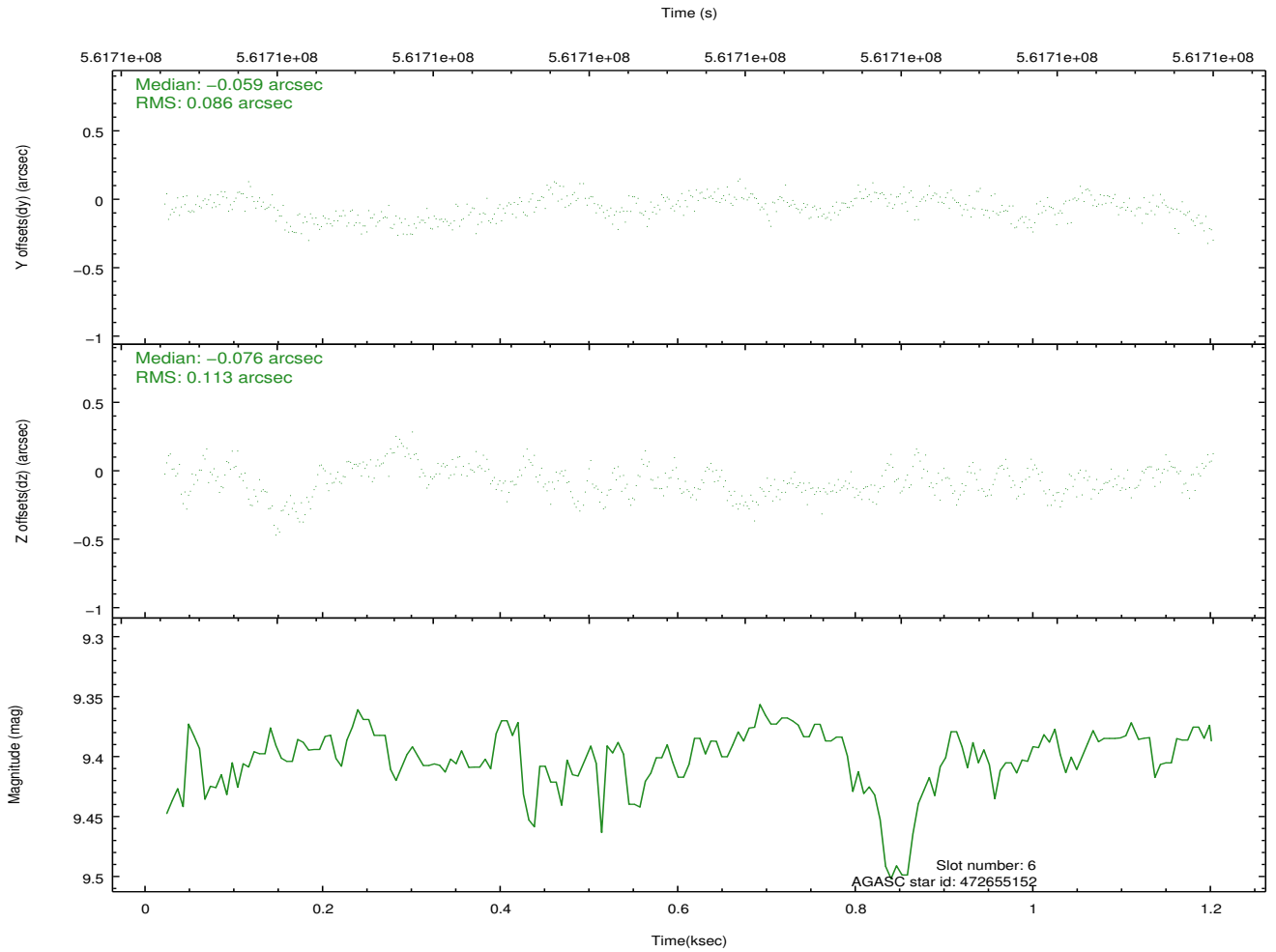
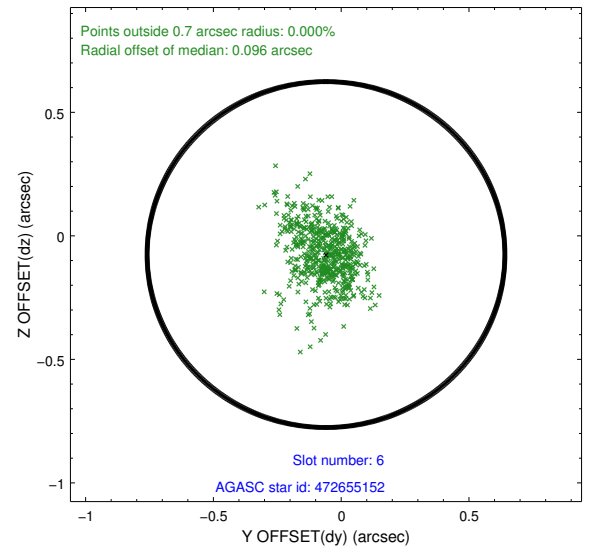
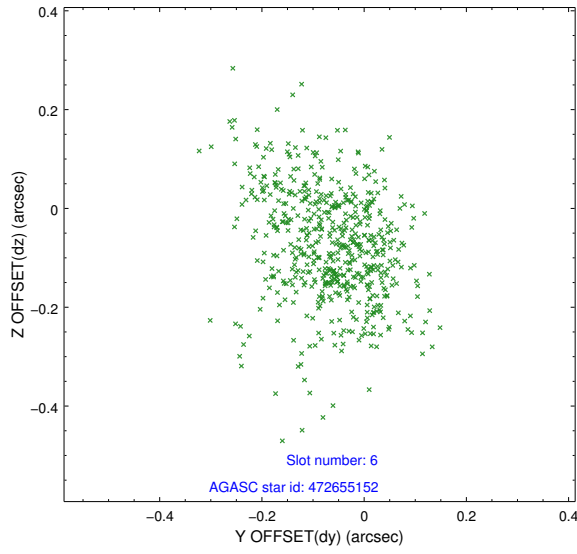
## 2.4.2 Slot 4



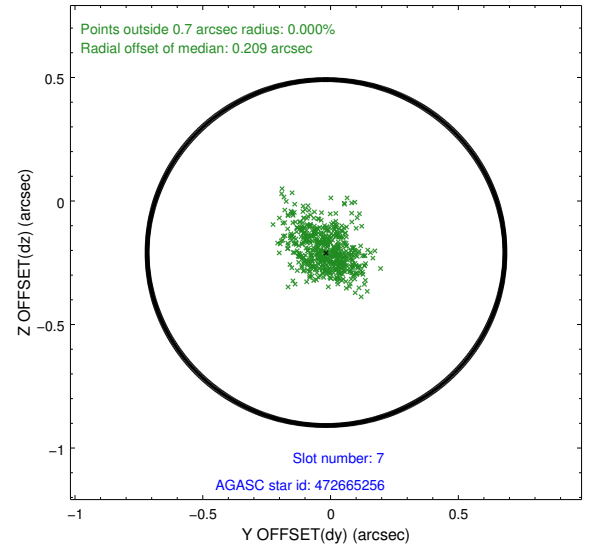
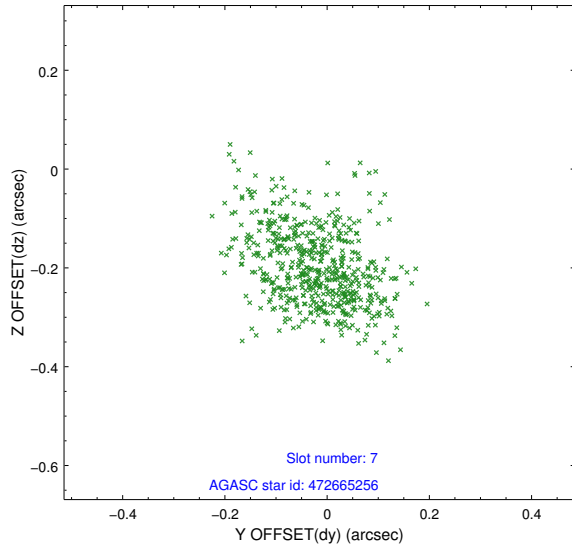
### 2.4.3 Slot 5



## 2.4.4 Slot 6

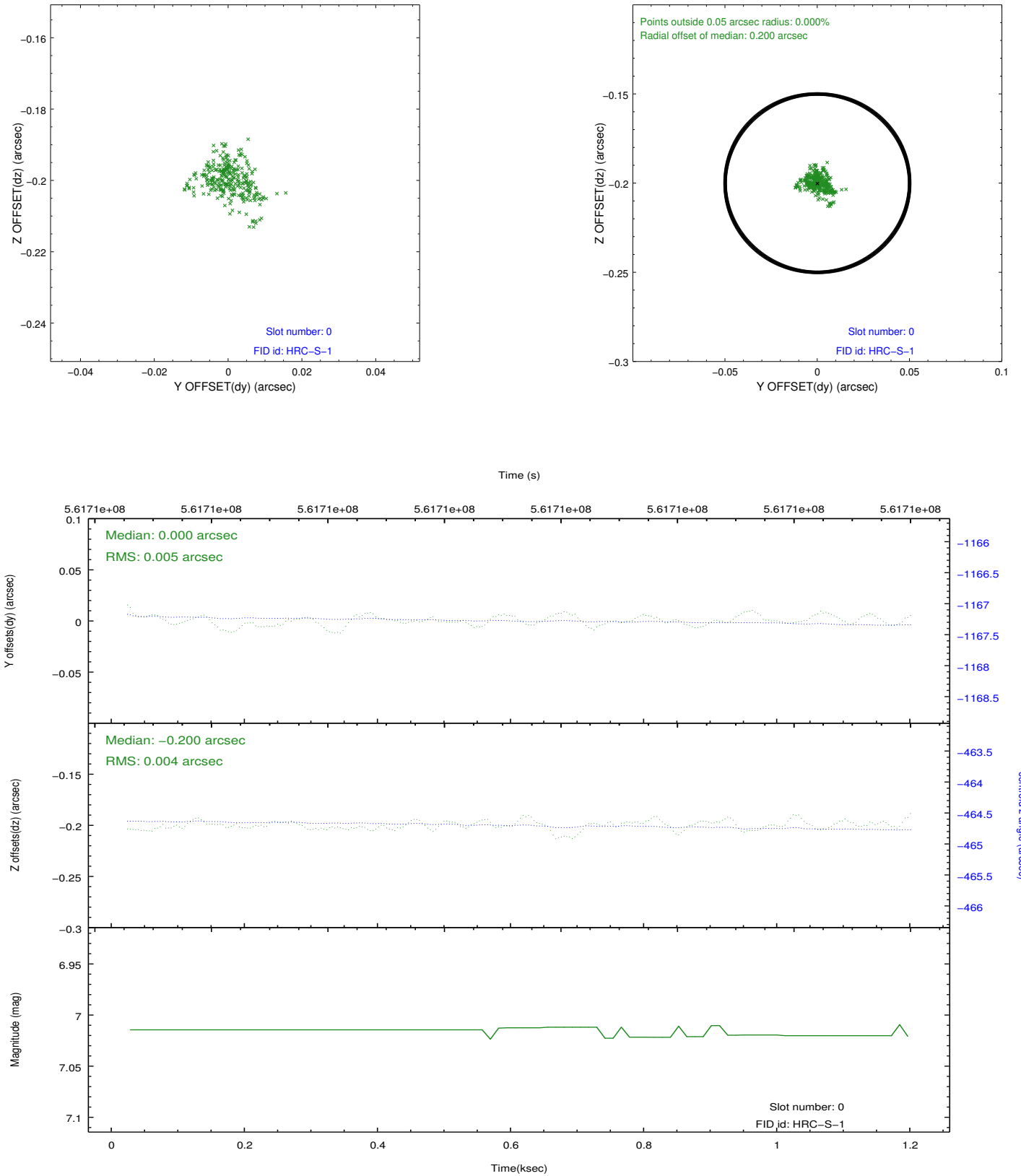


## 2.4.5 Slot 7

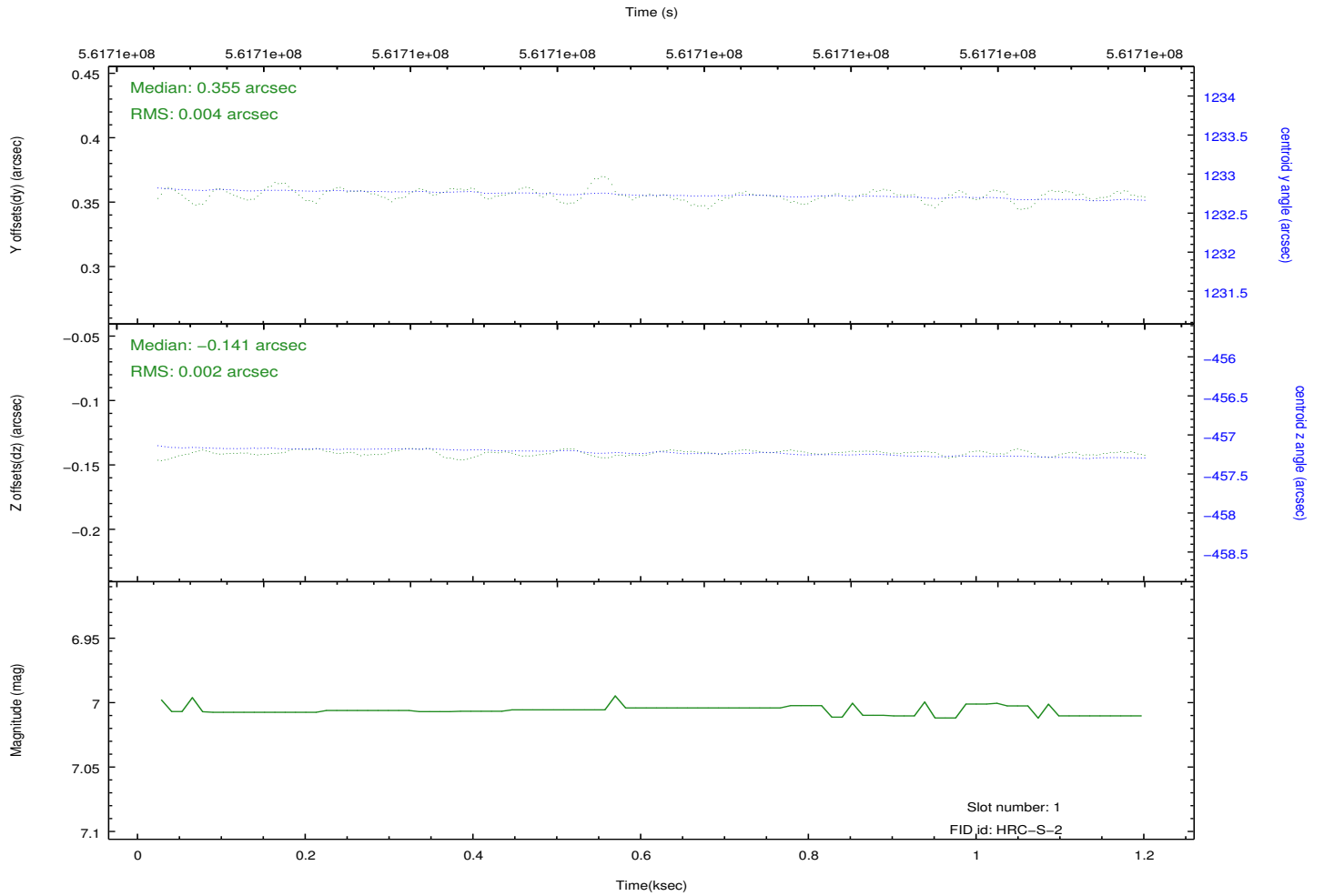
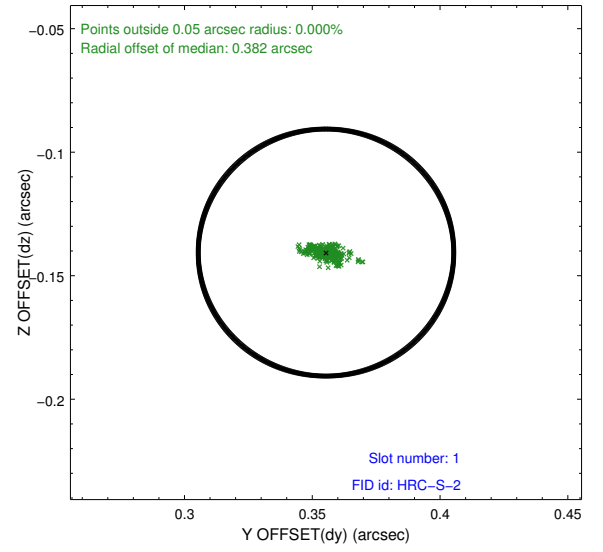
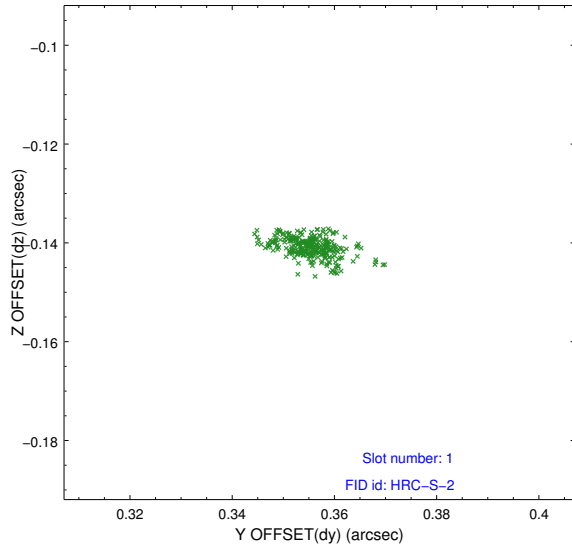


## 2.5 FID Slots

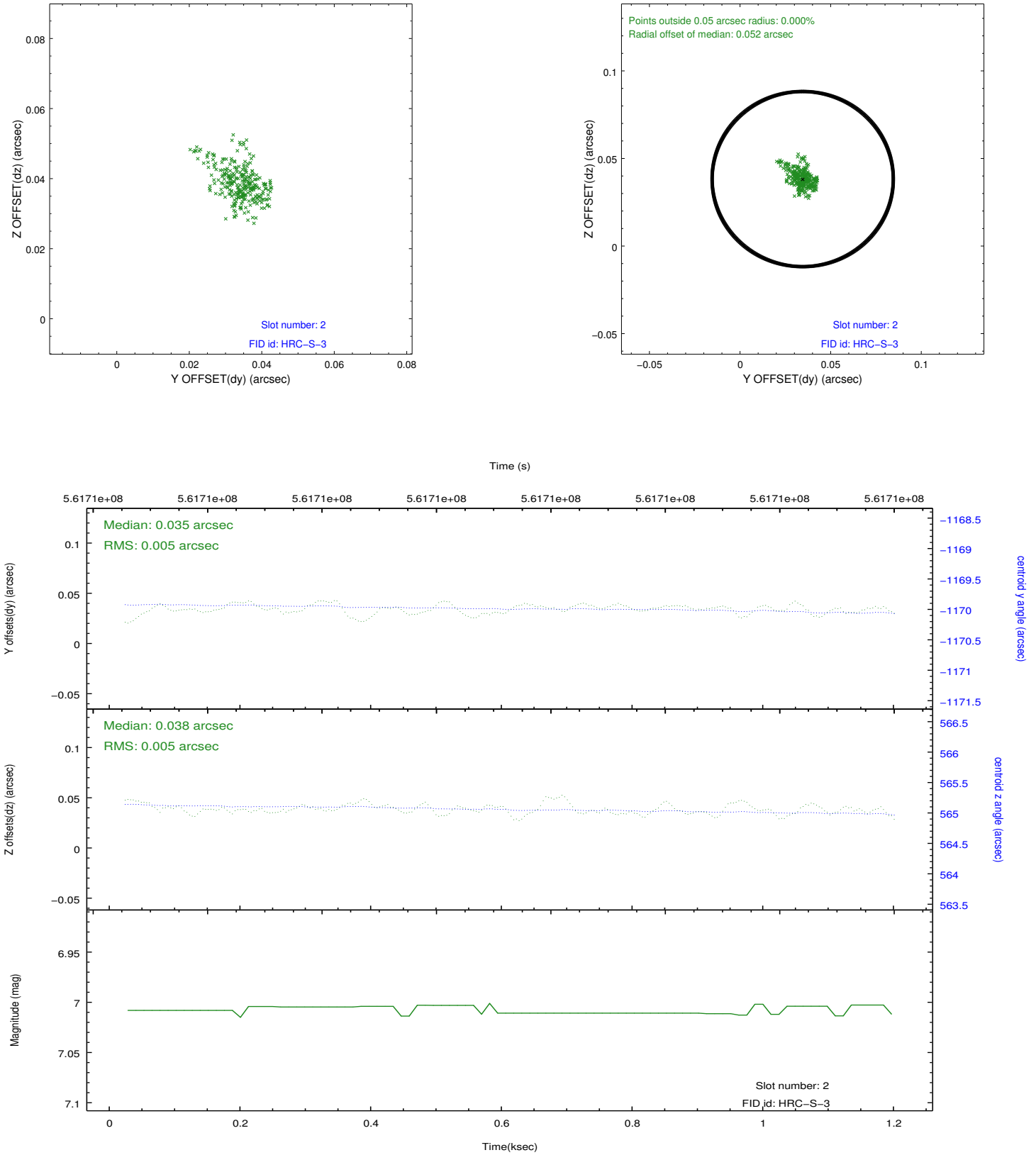
### 2.5.1 Slot 0



## 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)	2015.10.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1490250651836

### A.2 Comments