

# V&V Reference Report

## L2 ASCDS Version : 10.5.4

Observation 19836 - L2 Version 1  
Chandra X-Ray Center

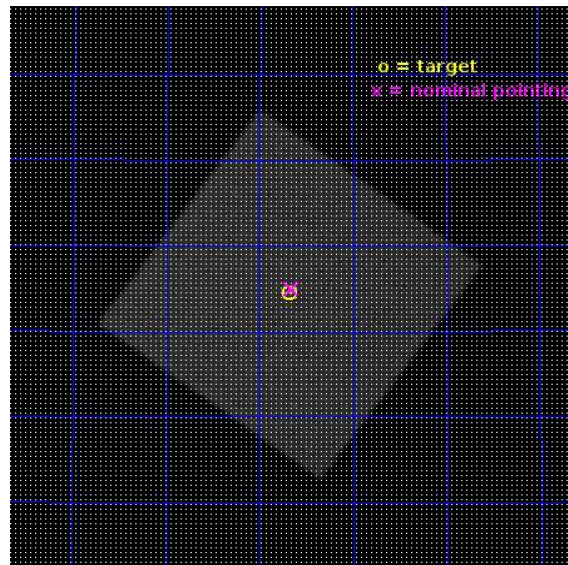
L2 Processing Date : Apr 28 2017

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# 1 Front

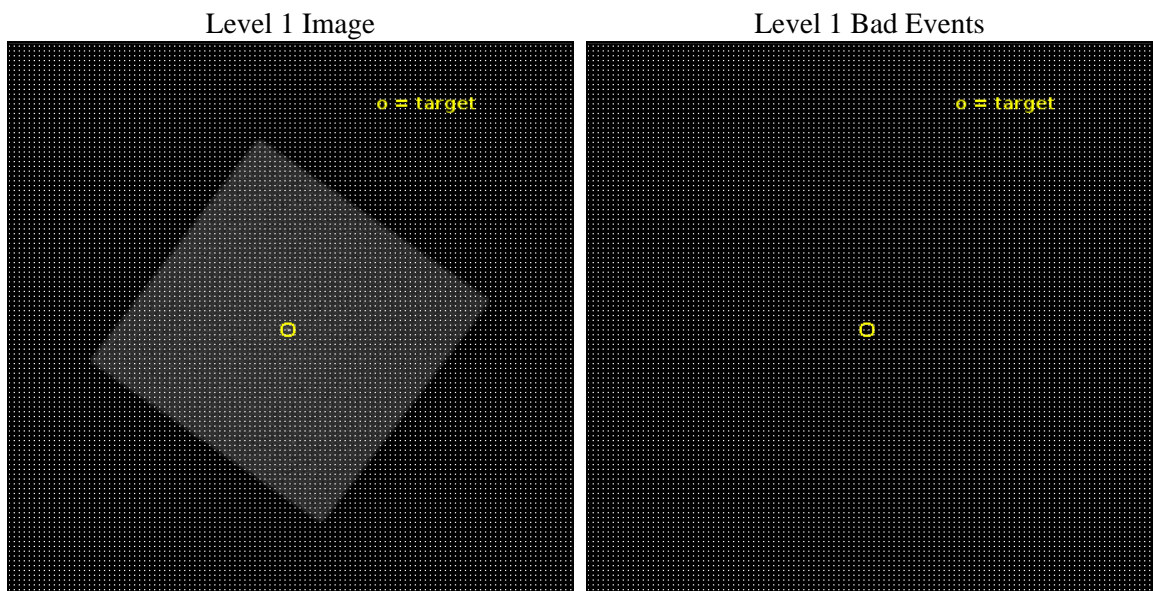
seq_num	291353	Sequence number
obs_id	19836	Observation id
title	AO-18 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.16532319748	Nominal RA [deg]
dec_nom	45.750263921764	Nominal Dec [deg]
roll_nom	81.05696880595	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5177.5315511227	[s]
livetime	5112.9089014454	Ontime multiplied by DTCOR
l2events	556934	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	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	5177.5315511227	[s]
caldbver	4.7.3	&#160	l1events	817529	Number of level 1 events
date	2017-04-28T21:31:13	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	817529
rejected events	87542
rejected %	10%

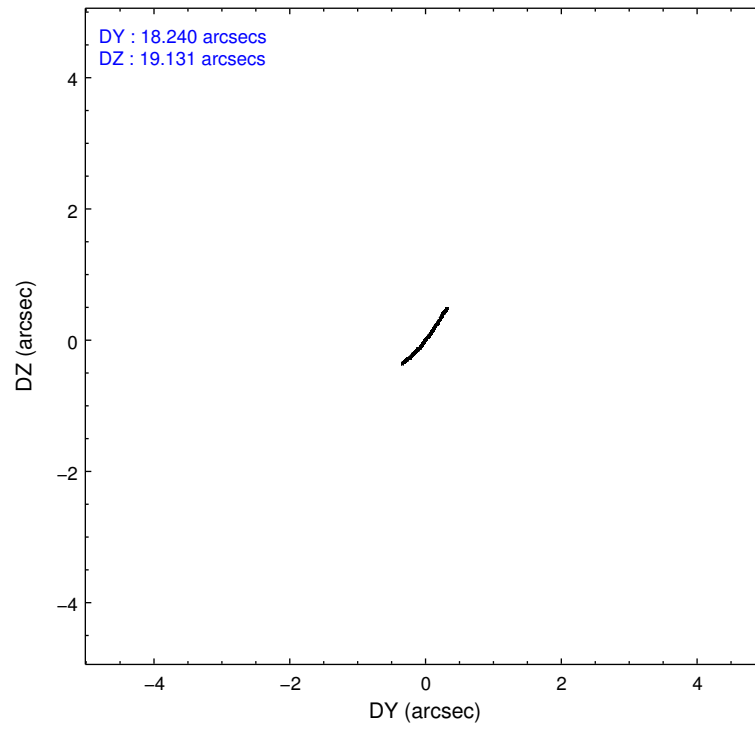
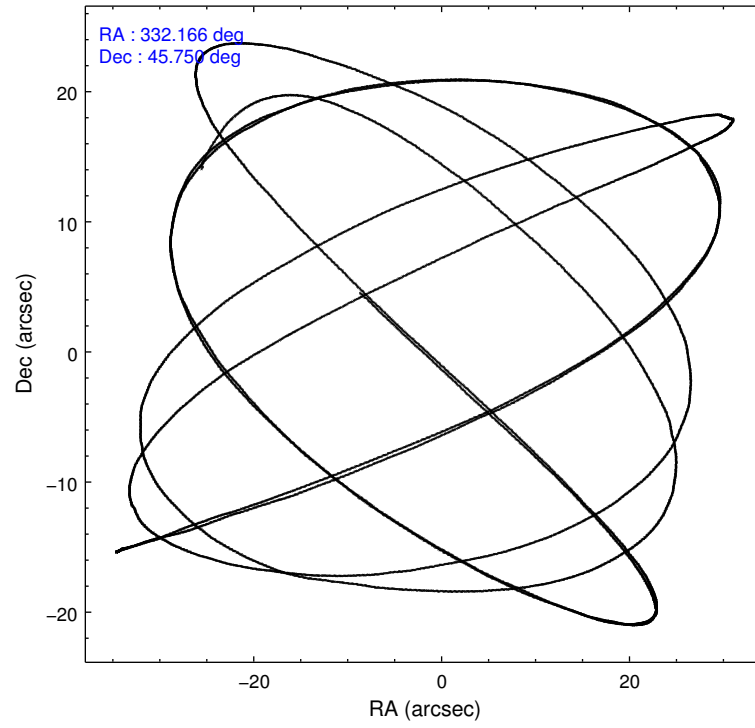


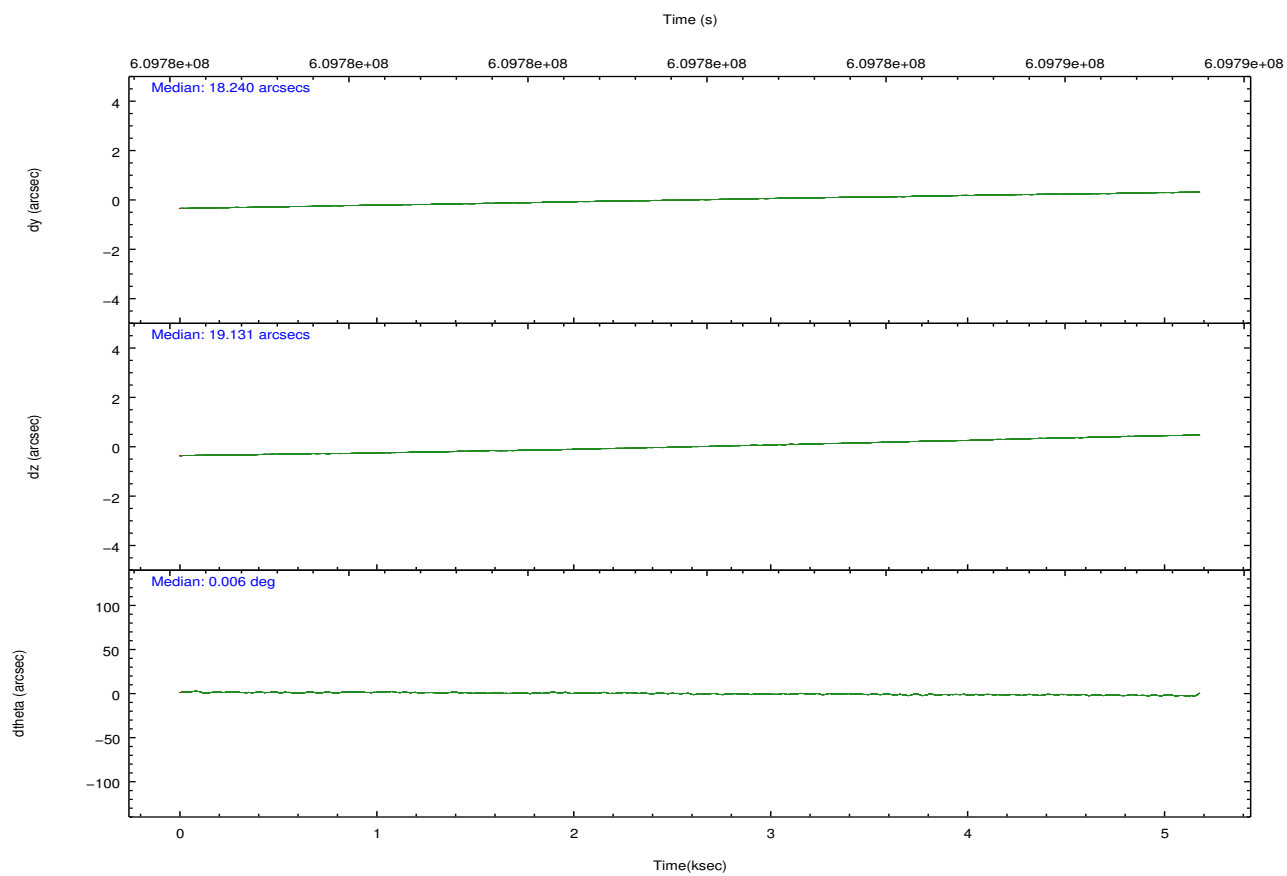
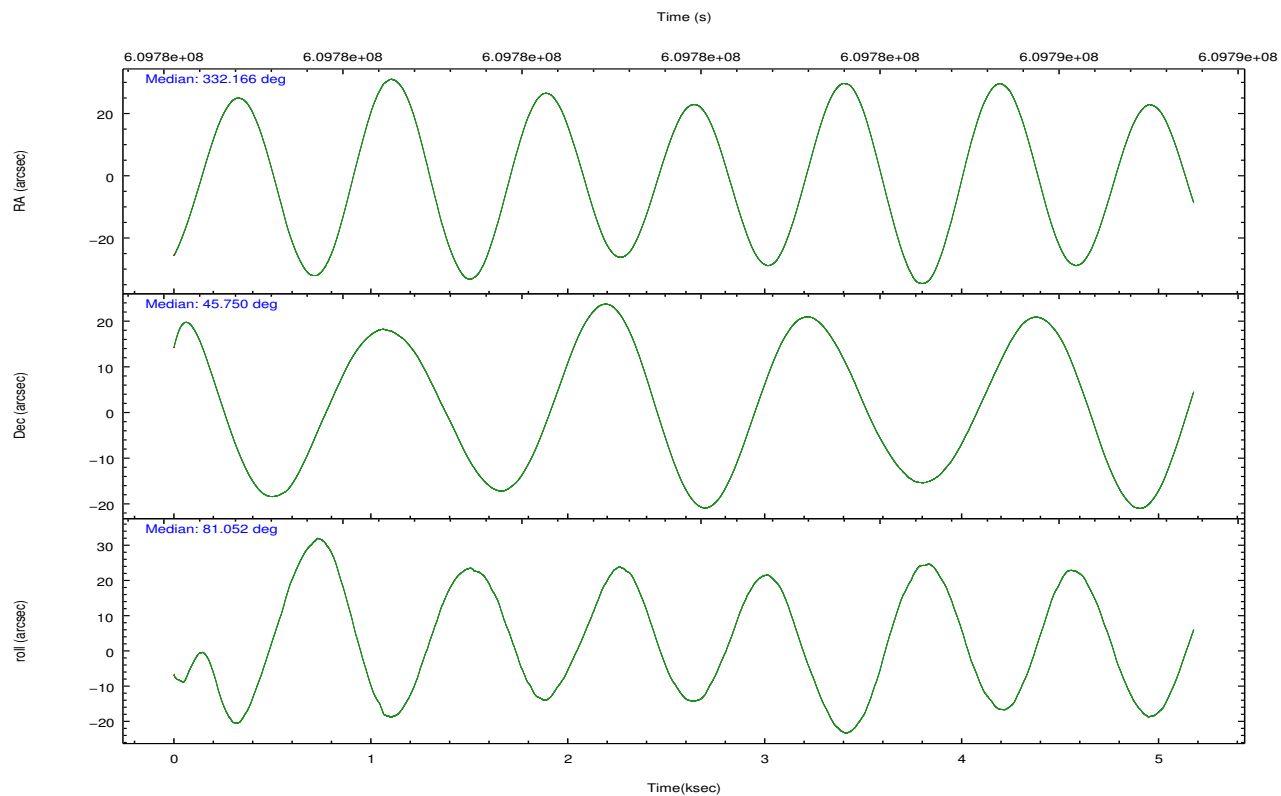
## 2.2 Compared Parameters

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	332.180005	332.1653231974761
[deg] Pointing Dec	45.725243	45.75026392176404
[deg] Pointing Roll	81.142017	81.05696880595039
[s] Window start time (MET)	602294469.184000	602294469.184000
[s] Window stop time (MET)	609897669.184000	609897669.184000
[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)	609781498.184000	609780716.29027
Observation start date	2017-04-28T15:43:49	2017-04-28T15:31:56
[s] Observation end time (MET)	609786498.184000	609787493.0781699
Observation end date	2017-04-28T17:07:09	2017-04-28T17:24:53

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

## 2.3 Aspect



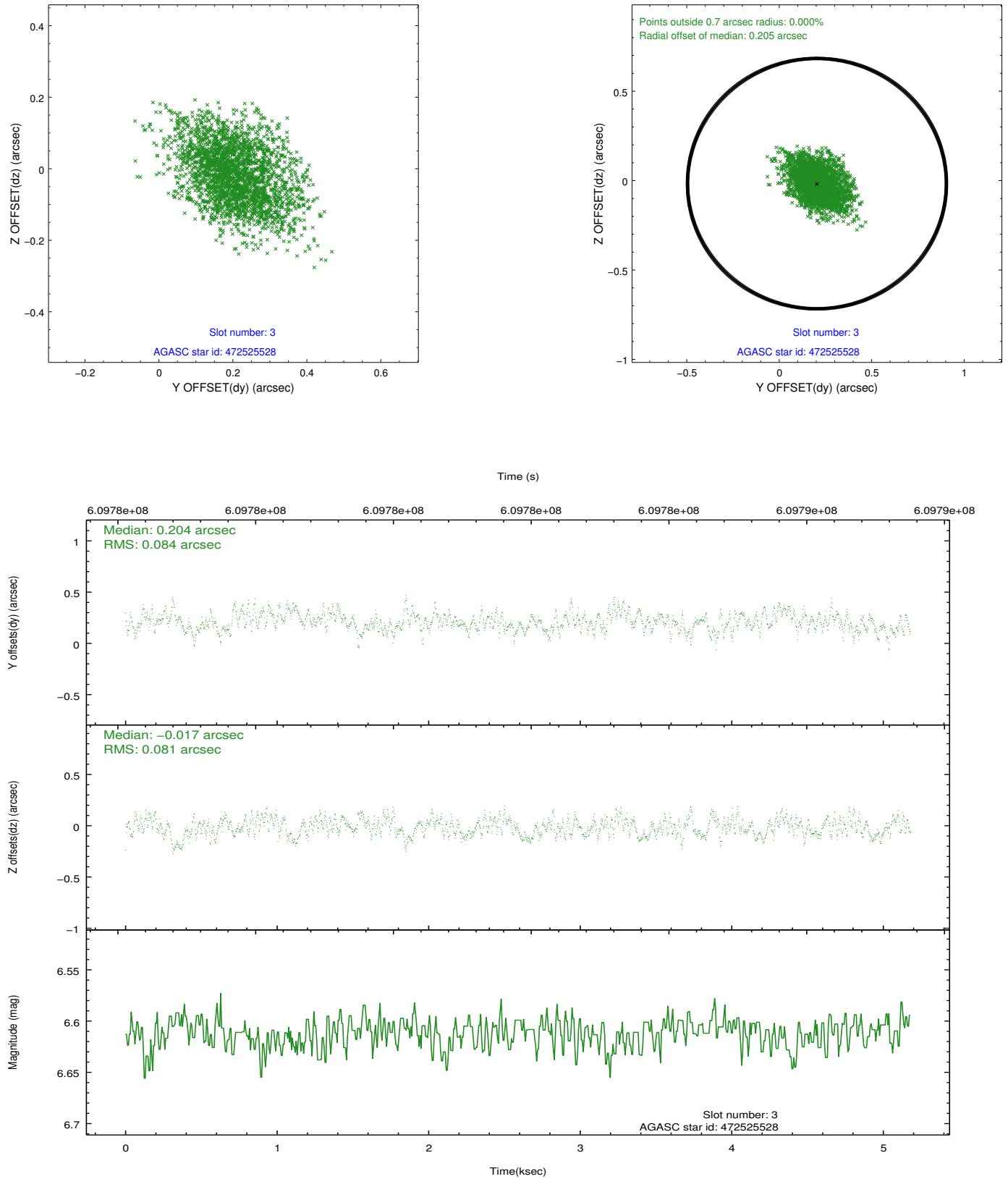


### Slot Statistics

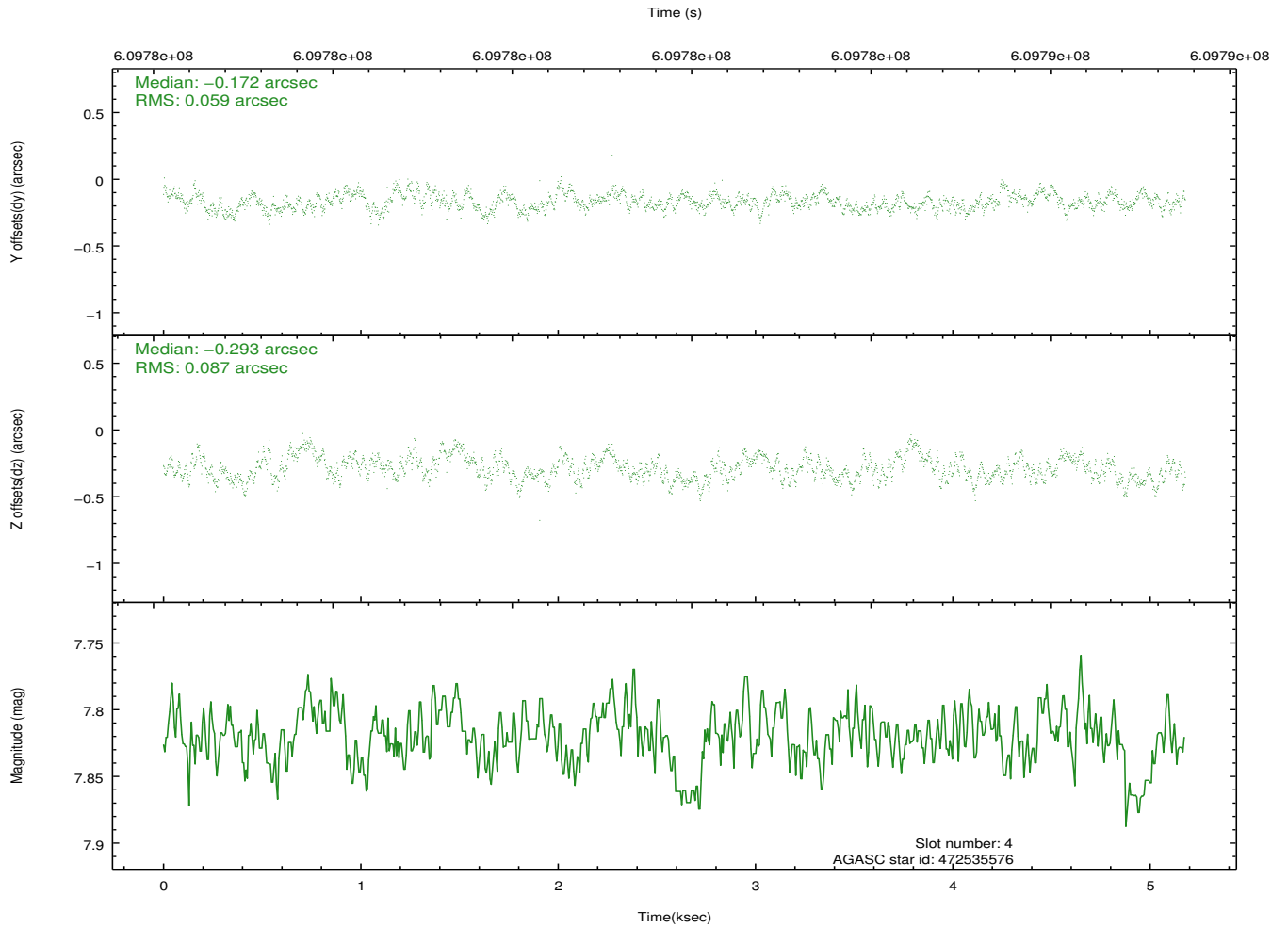
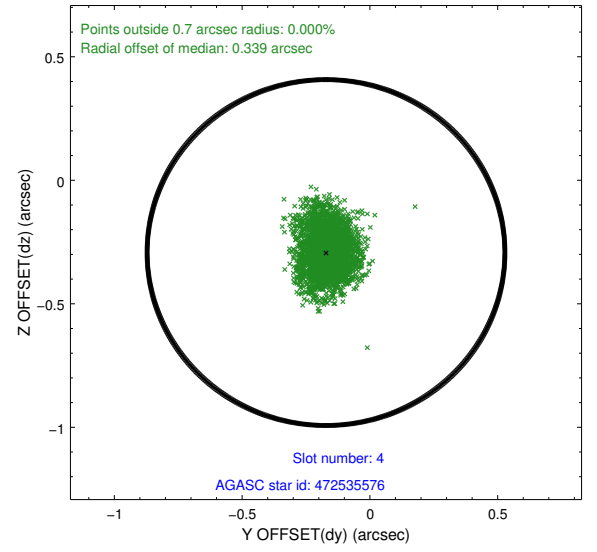
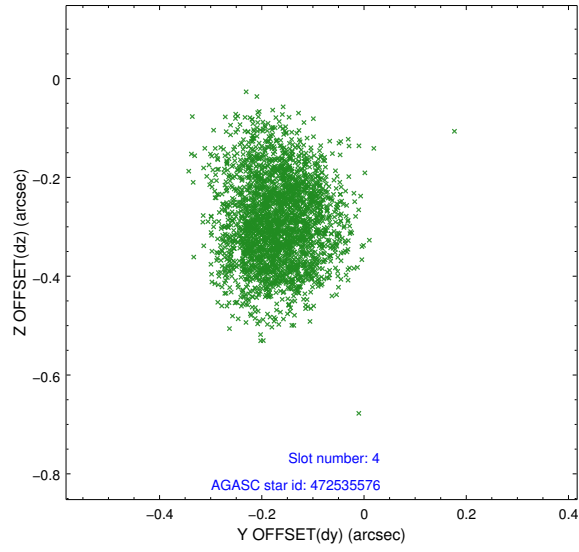
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-2	7.02	1264	0.082	-0.081	0.009	0.013	0.000000	0.000000	838.66	-1308.96
1	FID		HRC-I-3	7.07	1264	-0.295	0.020	0.009	0.014	0.000000	0.000000	-1202.29	996.13
2	FID		HRC-I-4	7.00	1264	0.333	-0.025	0.009	0.013	0.000000	0.000000	1268.01	995.64
3	GUIDE	used	472525528	6.61	2527	0.204	-0.017	0.123	0.203	331.551102	45.248694	-1933.43	1312.21
4	GUIDE	used	472535576	7.82	2527	-0.172	-0.293	0.113	0.181	331.438373	46.291802	1739.53	2139.25
5	GUIDE	used	472536328	8.08	2527	-0.226	-0.167	0.110	0.176	331.496671	46.454831	2342.67	2081.68
6	GUIDE	used	472655152	9.38	2527	0.196	0.593	0.236	0.354	332.504239	45.862991	618.69	-724.64
7	GUIDE	used	472533912	9.11	2525	-0.014	-0.097	0.194	0.320	331.791136	46.368695	2143.42	1311.95

## 2.4 Star Slots

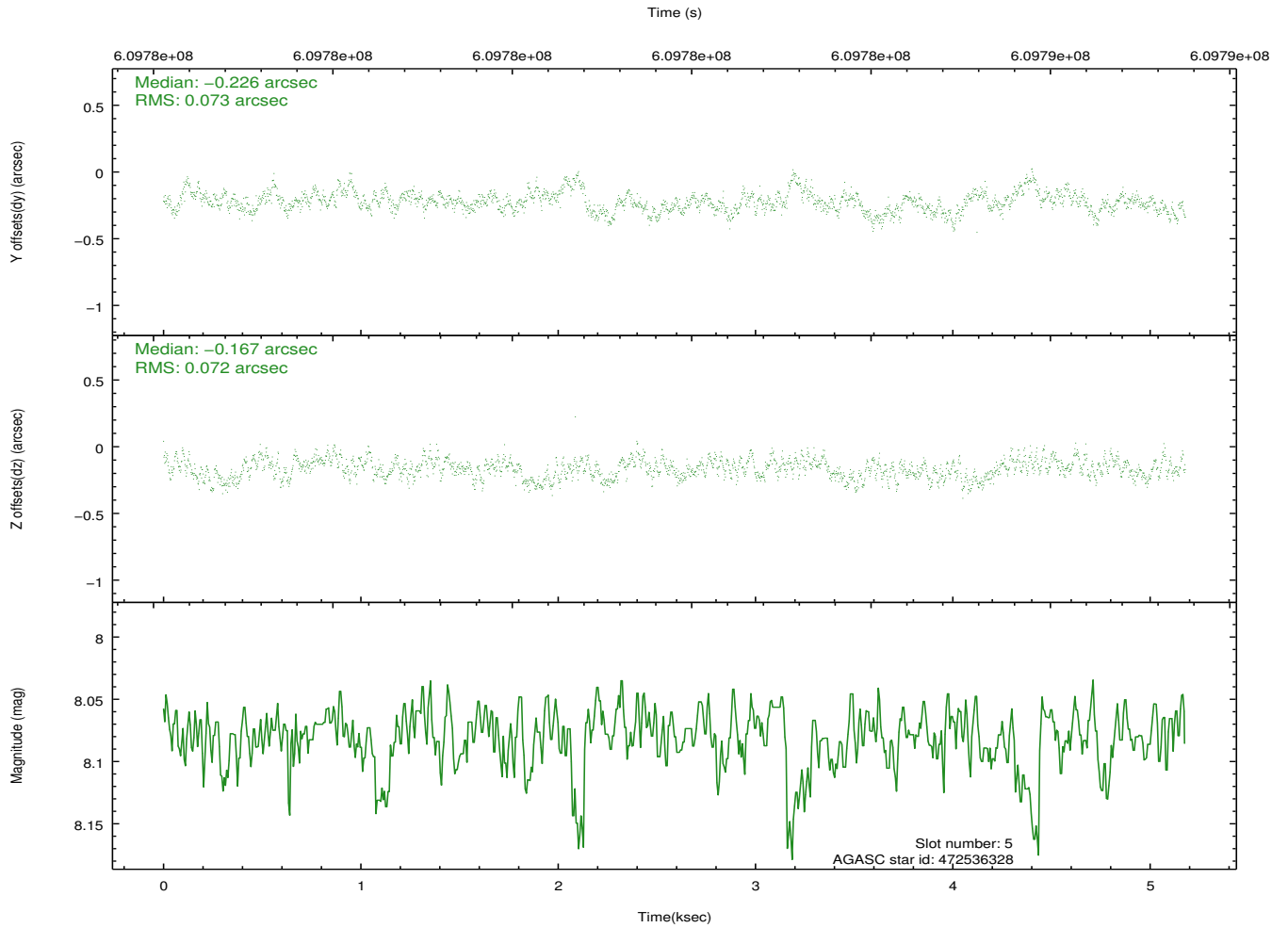
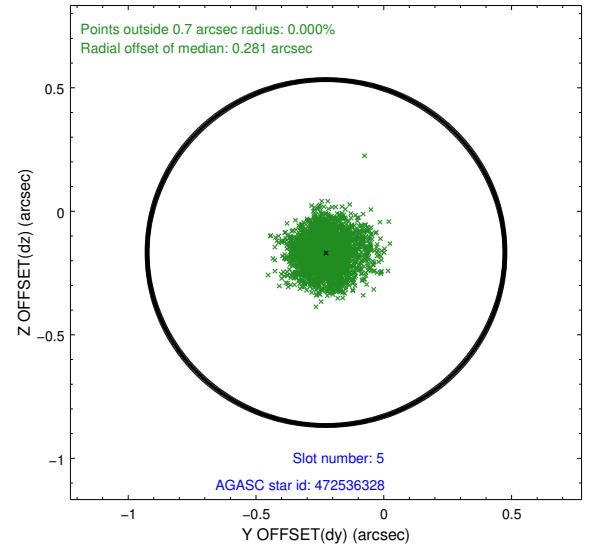
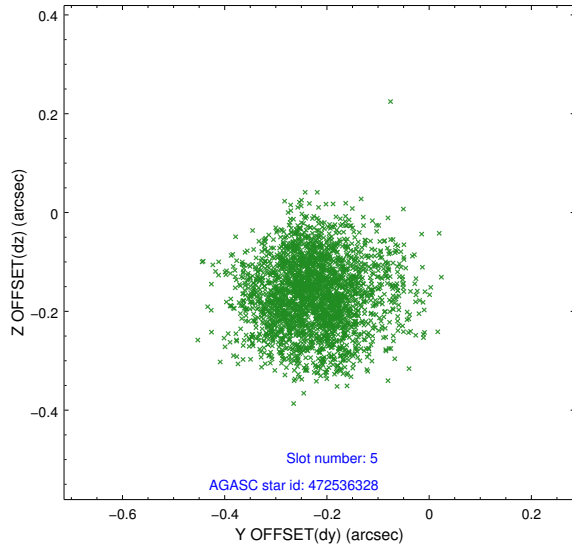
### 2.4.1 Slot 3



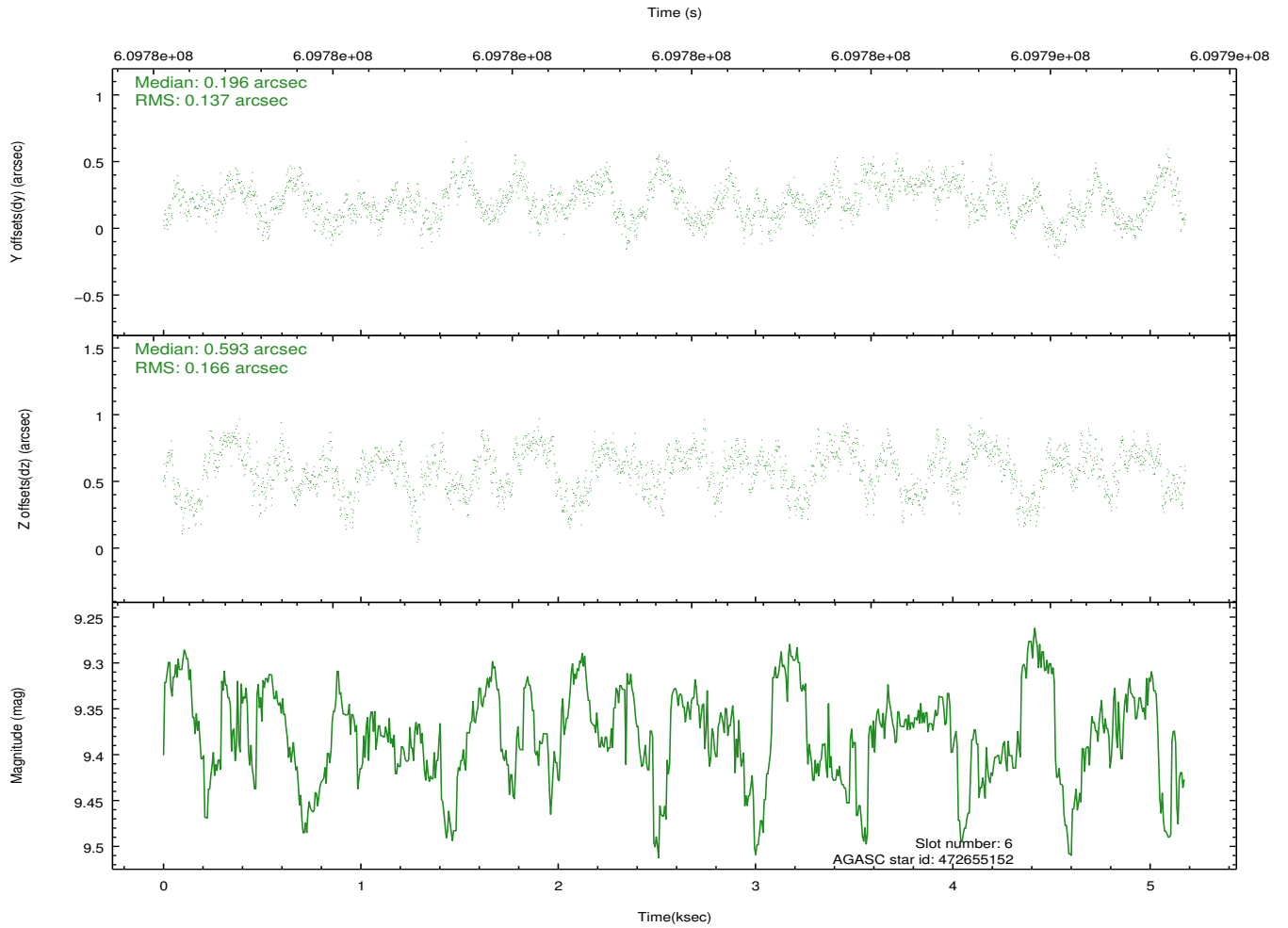
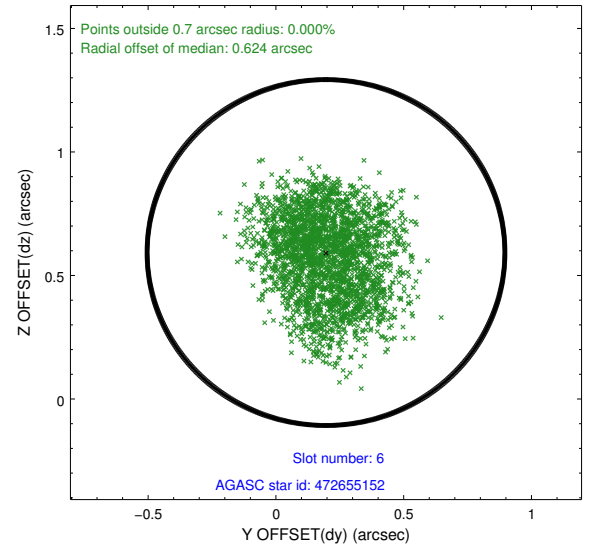
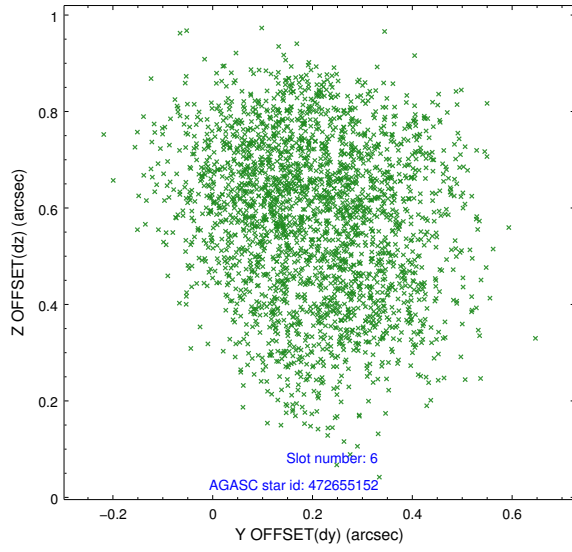
## 2.4.2 Slot 4



### 2.4.3 Slot 5

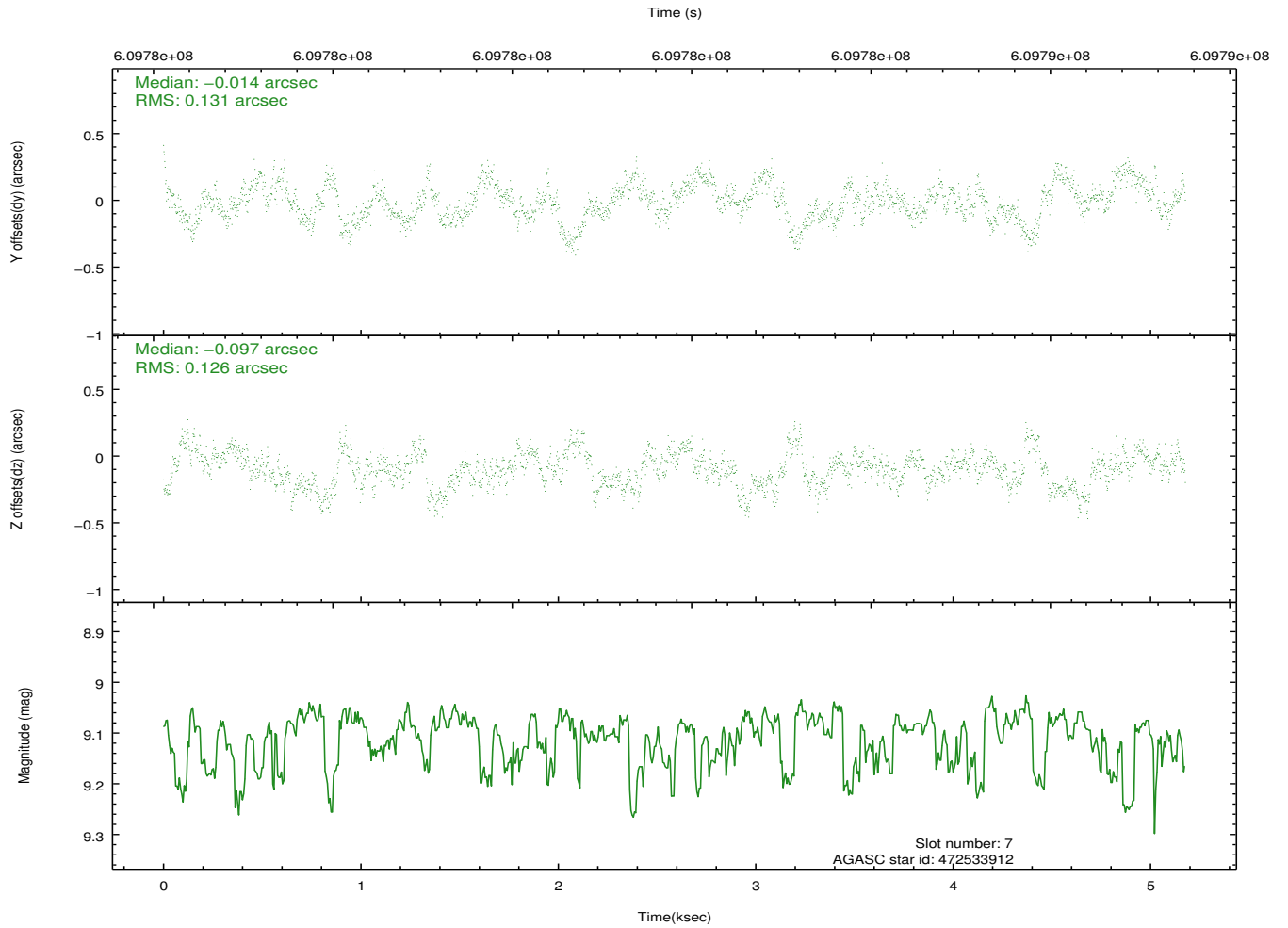
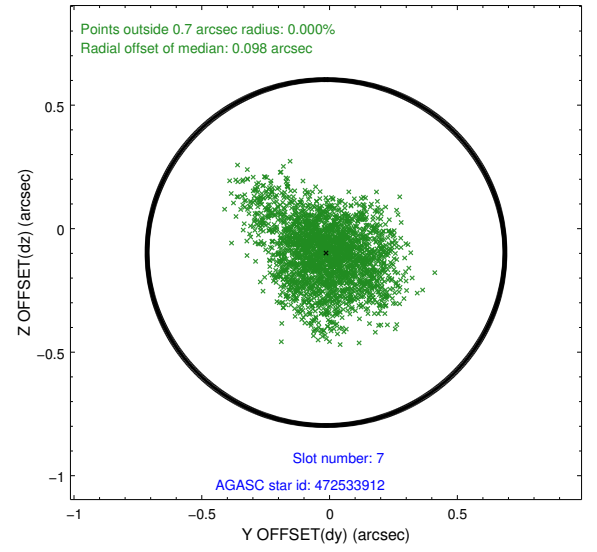
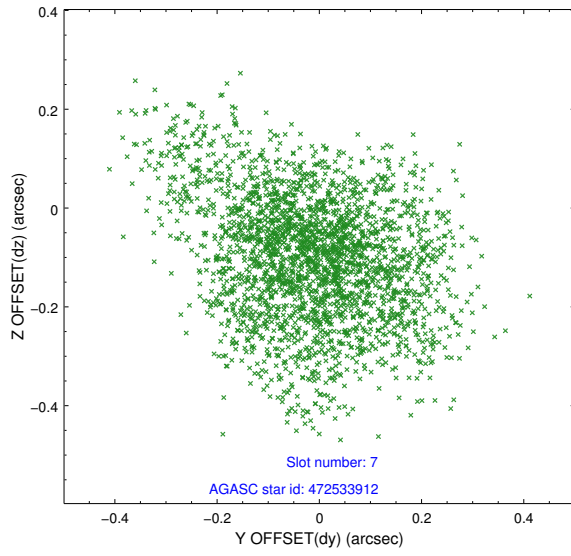


## 2.4.4 Slot 6



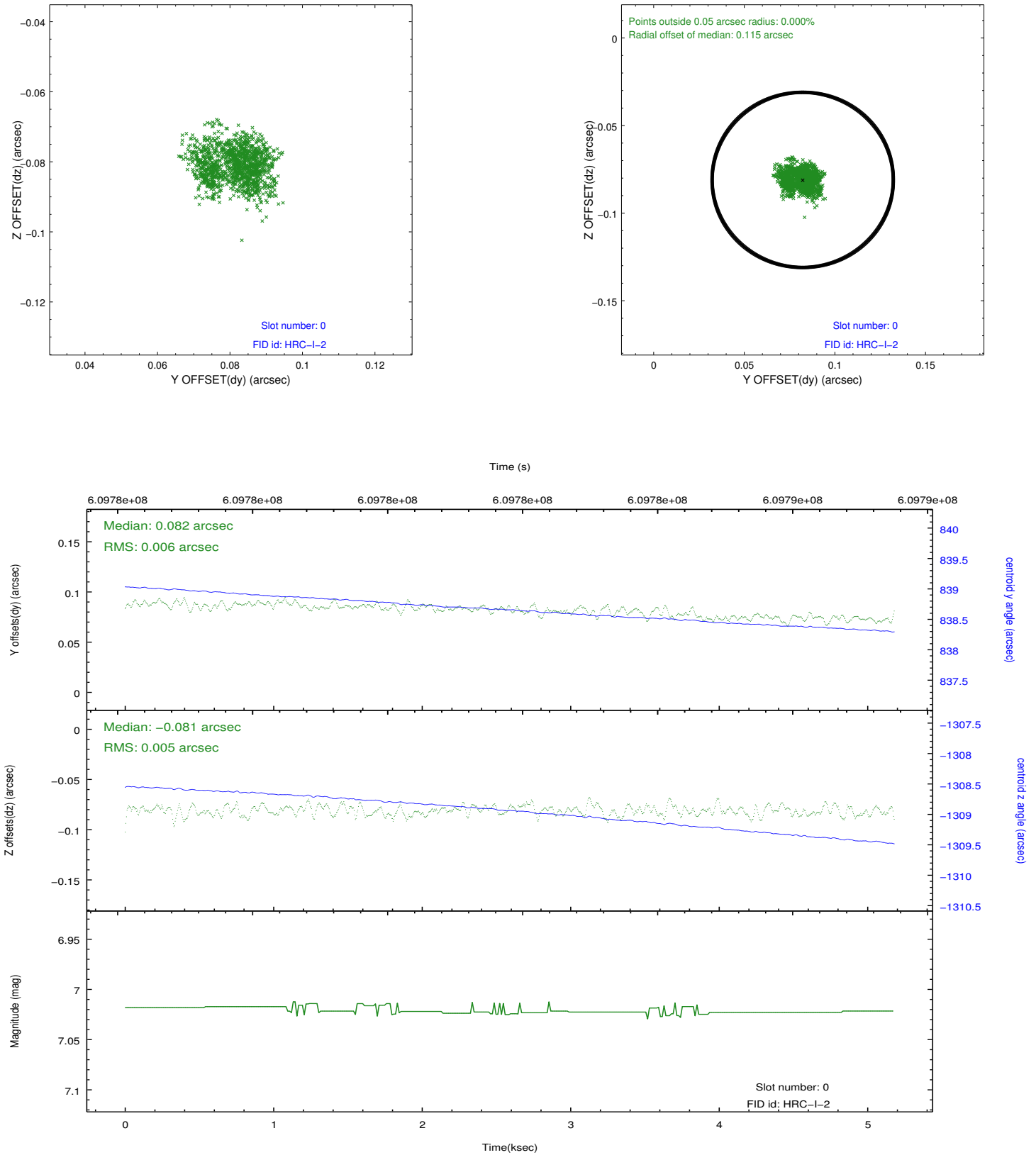


## 2.4.5 Slot 7

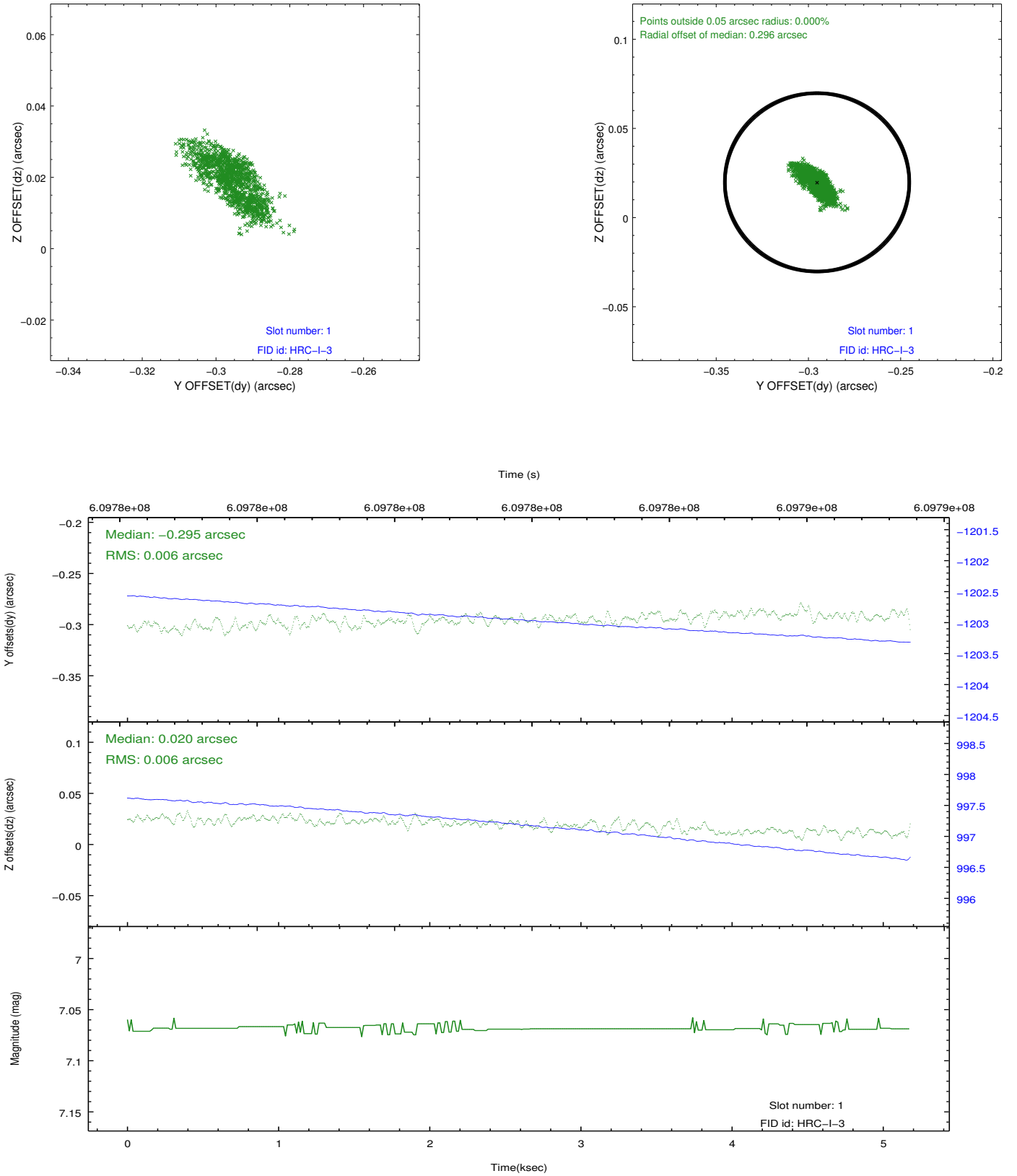


## 2.5 FID Slots

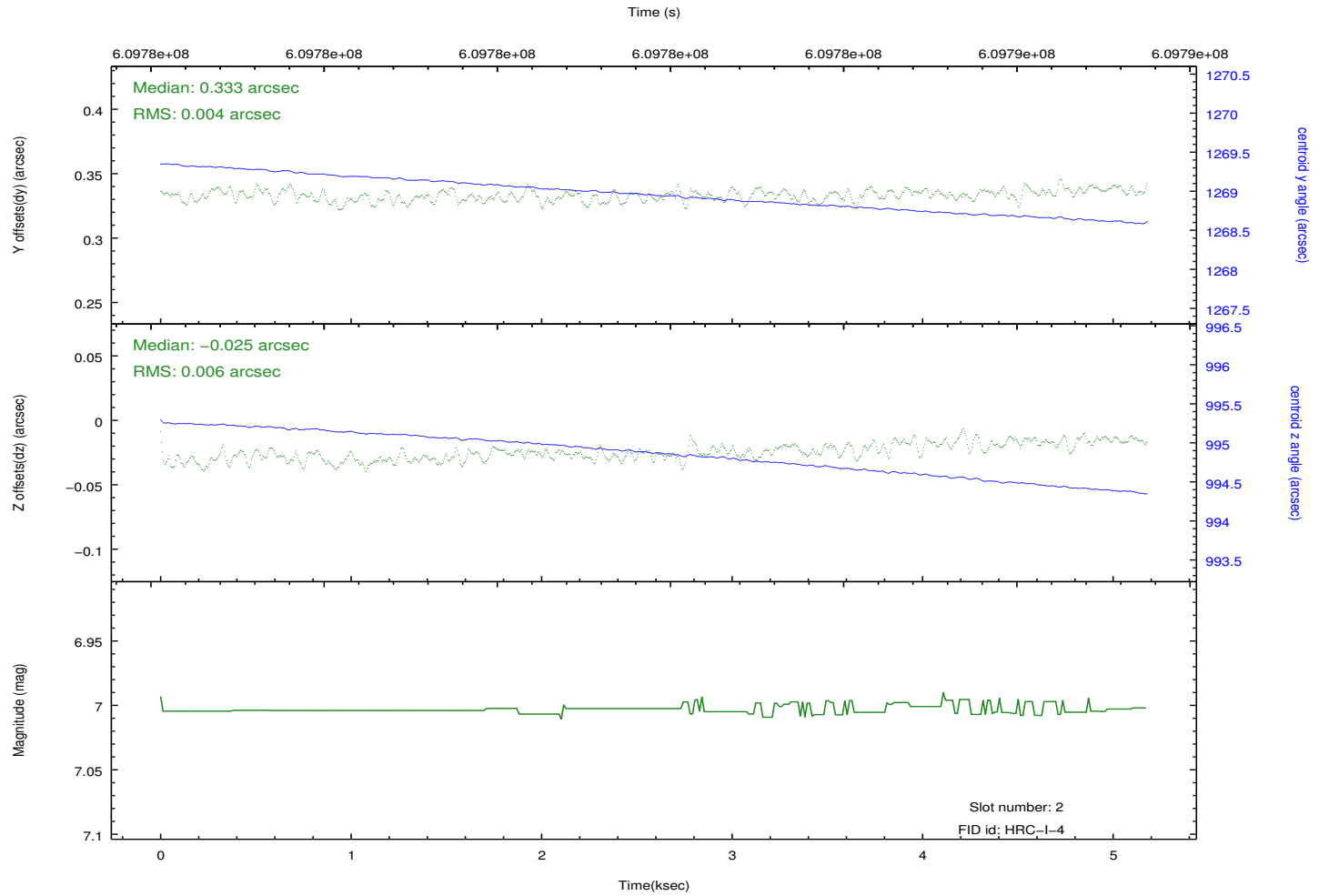
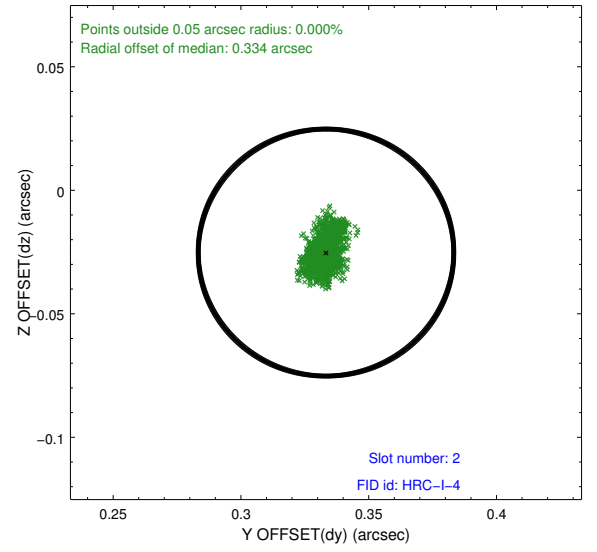
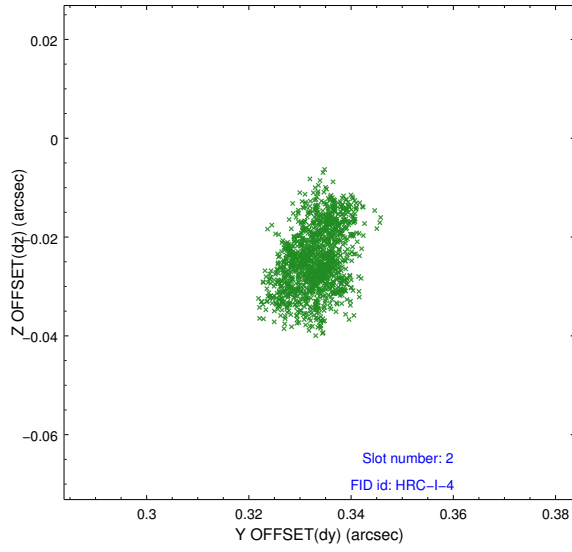
### 2.5.1 Slot 0



## 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)	2017.04.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1775315511227

### A.2 Comments

Window preference met.