

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 5120 - L2 Version 3  
Chandra X-Ray Center

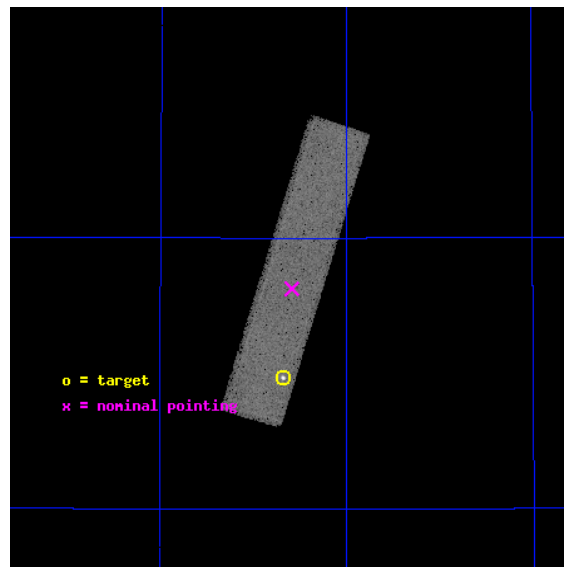
L2 Processing Date : Dec 12 2012

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# 1 Front

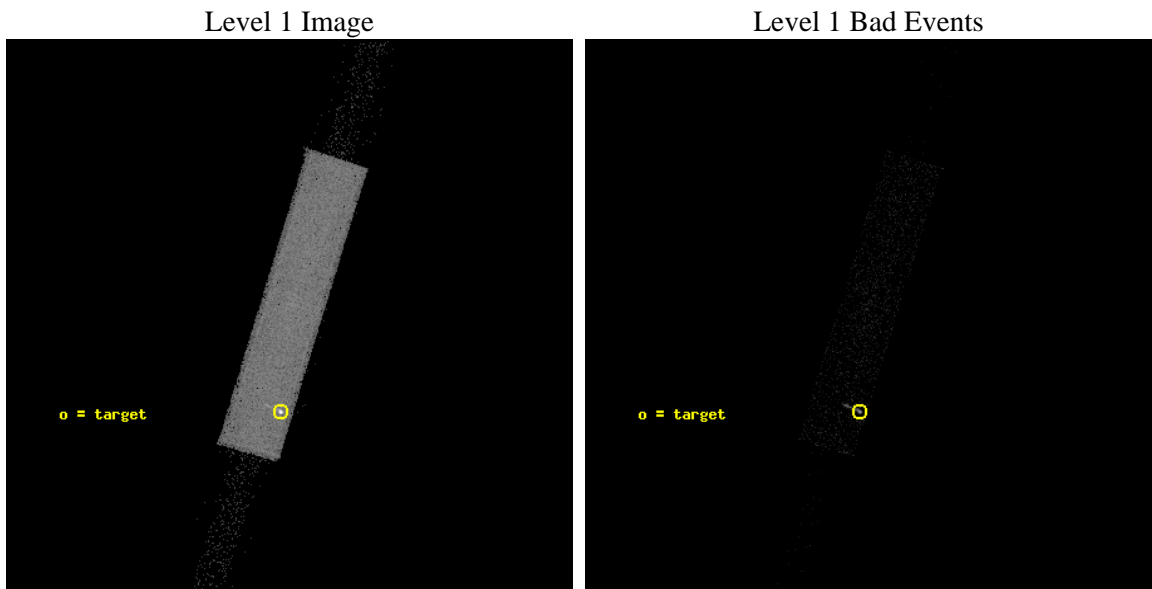
seq_num	290393	Sequence number
obs_id	5120	Observation id
title	AO5B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.14678662687	Nominal RA [deg]
dec_nom	45.906753894817	Nominal Dec [deg]
roll_nom	287.08163806224	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1054.9812974334	[s]
livetime	1045.3547875021	Ontime multiplied by DTCOR
l2events	62374	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	900.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	1054.9812974334	[s]
caldbver	4.5.4	&#160	l1events	93545	Number of level 1 events
date	2012-12-12T00:12:32	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

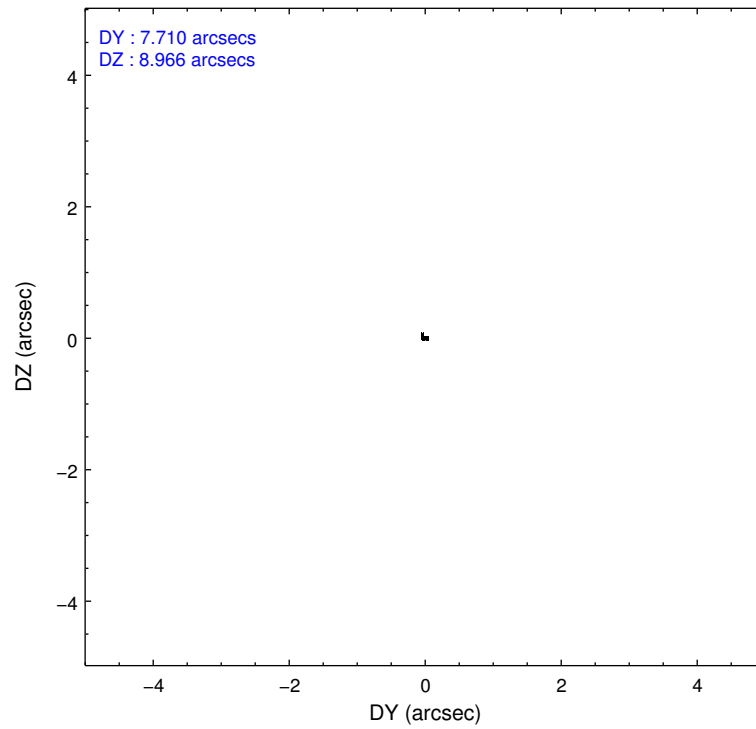
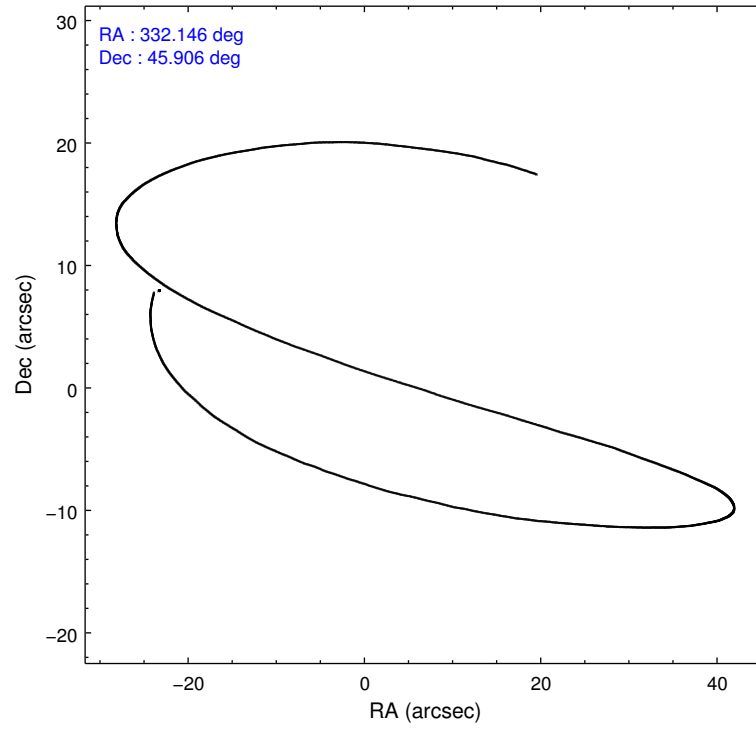
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	780	92008	757
rejected events	780	18450	757
rejected %	100%	20%	100%

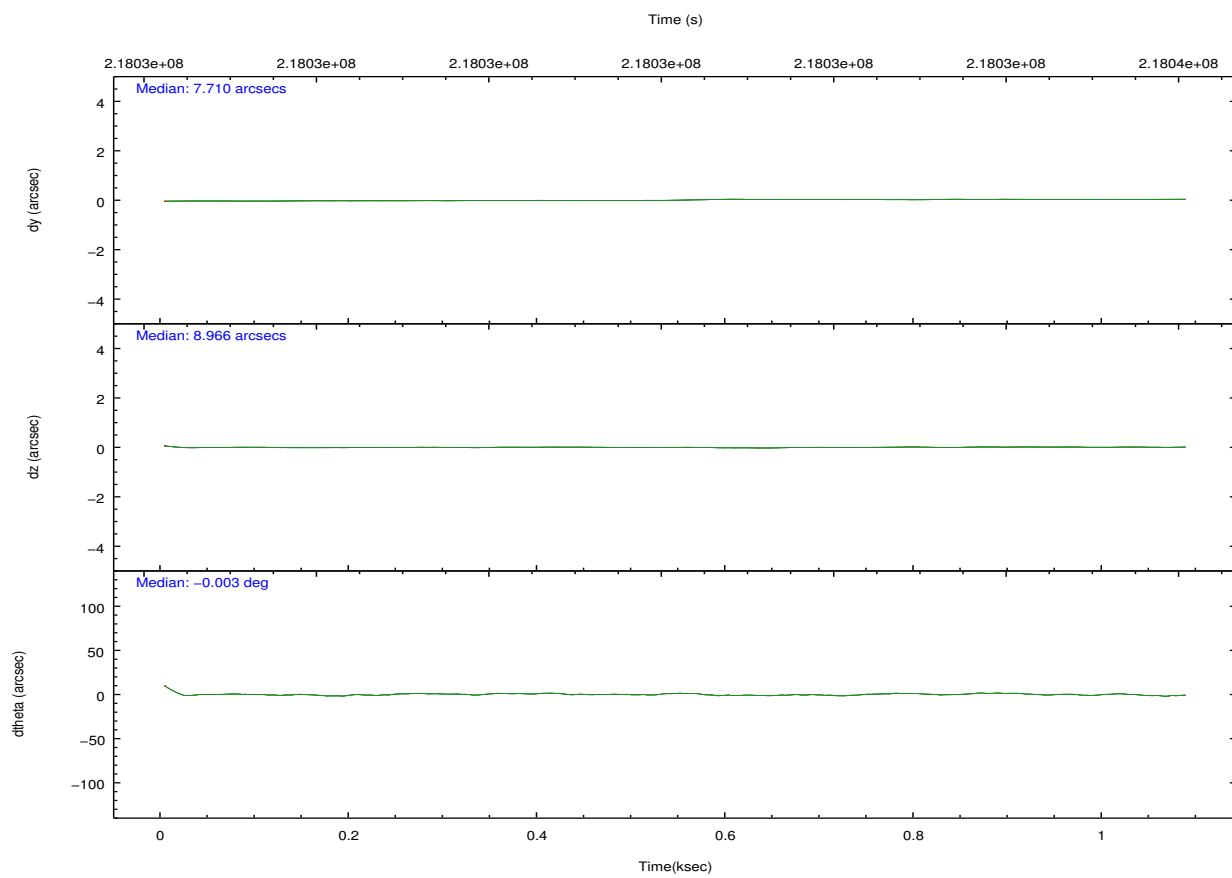
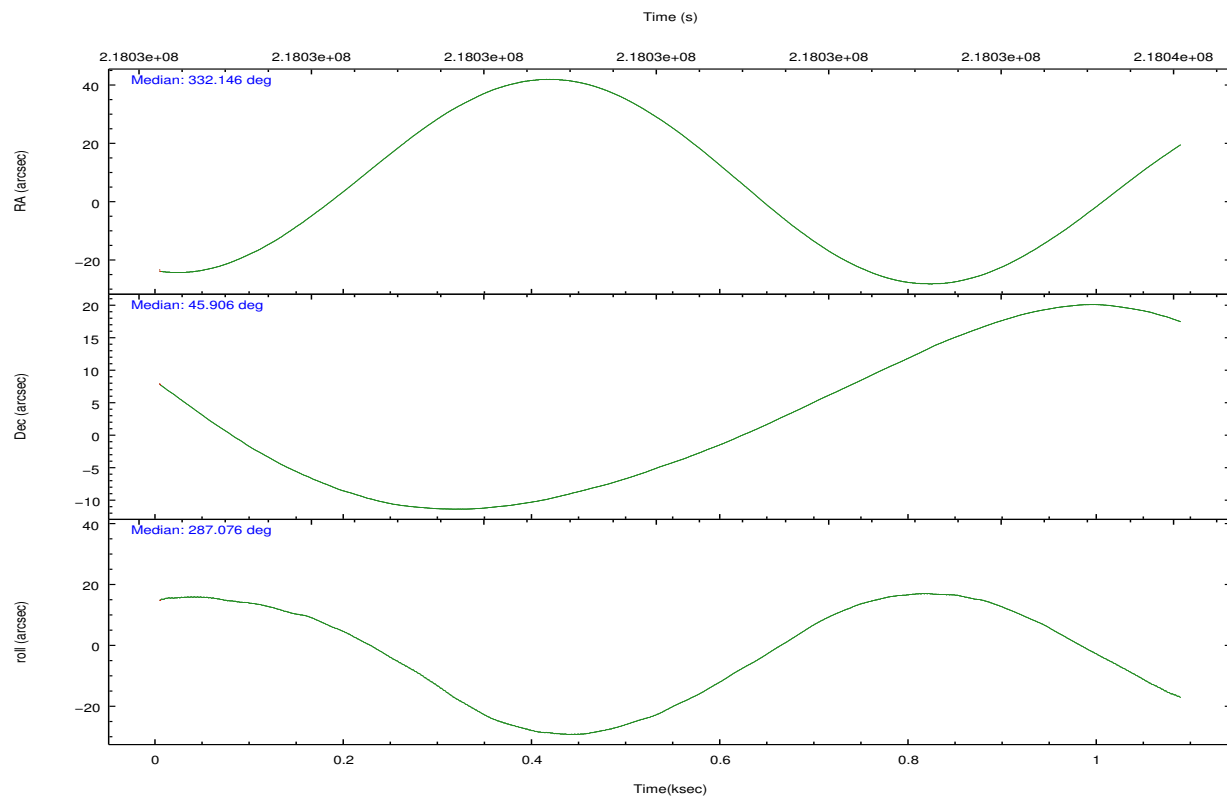
## 2.2 Compared Parameters

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	332.116126	332.1467866268702
[deg] Pointing Dec	45.925334	45.90675389481704
[deg] Pointing Roll	287.036342	287.0816380622356
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	218034063.184000	218033687.01937
Observation start date	2004-11-28T12:59:59	2004-11-28T12:54:47
[s] Observation end time (MET)	218034963.184000	218035096.90693
Observation end date	2004-11-28T13:14:59	2004-11-28T13:18:16

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

## 2.3 Aspect





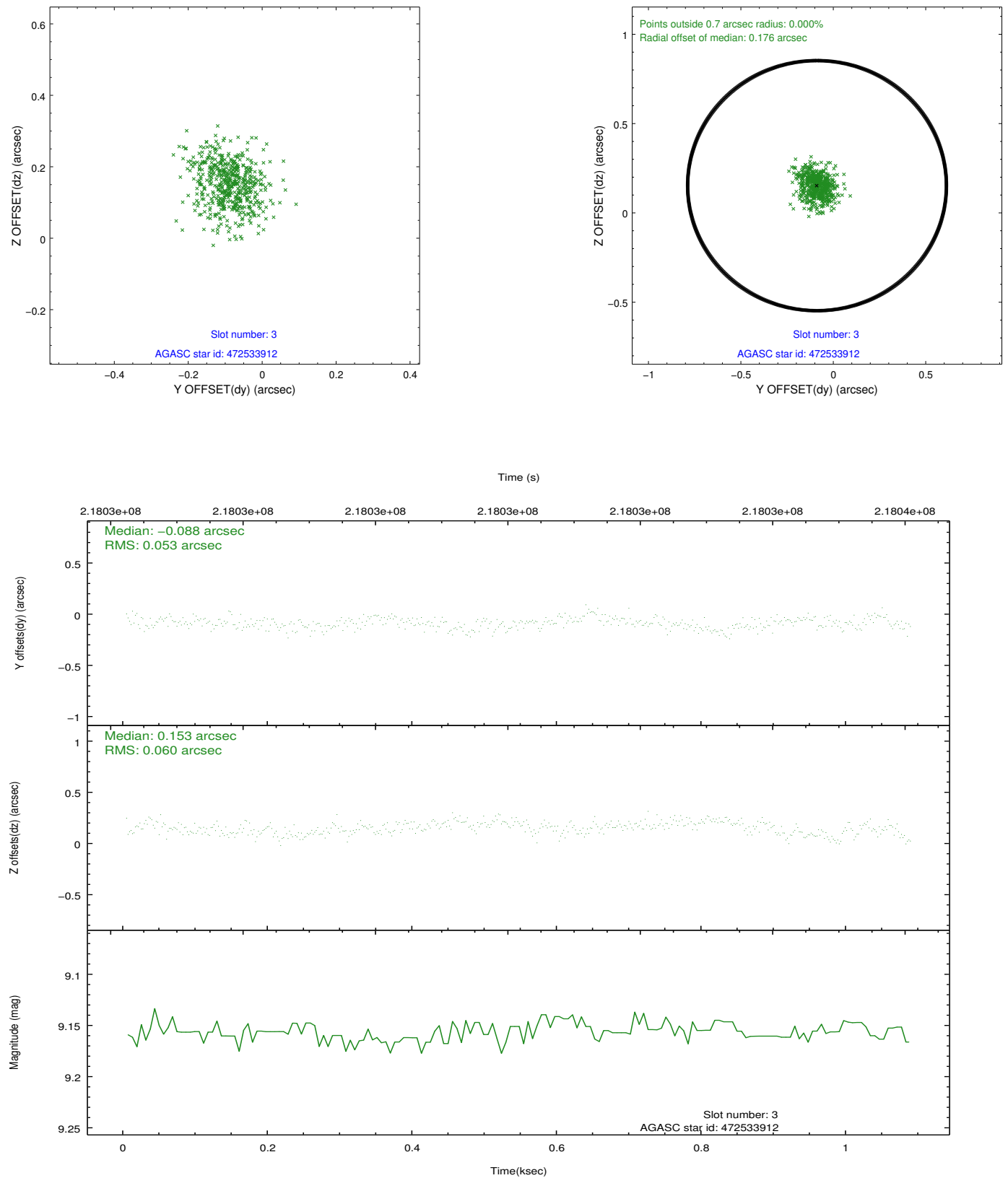
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.03	265	0.106	-0.172	0.007	0.012	0.000000	0.000000	-1161.91	-457.64
1	FID	HRC-S-3	7.04	265	0.057	-0.034	0.008	0.018	0.000000	0.000000	-1169.06	570.30
2	FID	HRC-S-4	7.00	265	0.224	-0.090	0.004	0.007	0.000000	0.000000	1232.06	576.69
3	GUIDE	472533912	9.16	530	-0.088	0.153	0.086	0.144	331.791136	46.368695	-1763.91	-301.47
4	GUIDE	472535400	8.78	530	-0.279	-0.158	0.077	0.130	331.047001	46.353888	-2273.52	-2081.26
5	GUIDE	472655152	9.43	530	0.012	0.055	0.113	0.197	332.504239	45.862991	493.38	863.78
6	GUIDE	472659832	9.47	530	-0.001	0.095	0.101	0.174	332.780399	46.098139	-114.55	1773.82
7	GUIDE	472527720	7.05	529	0.352	-0.158	0.105	0.173	331.460205	45.112509	2303.82	-2442.90

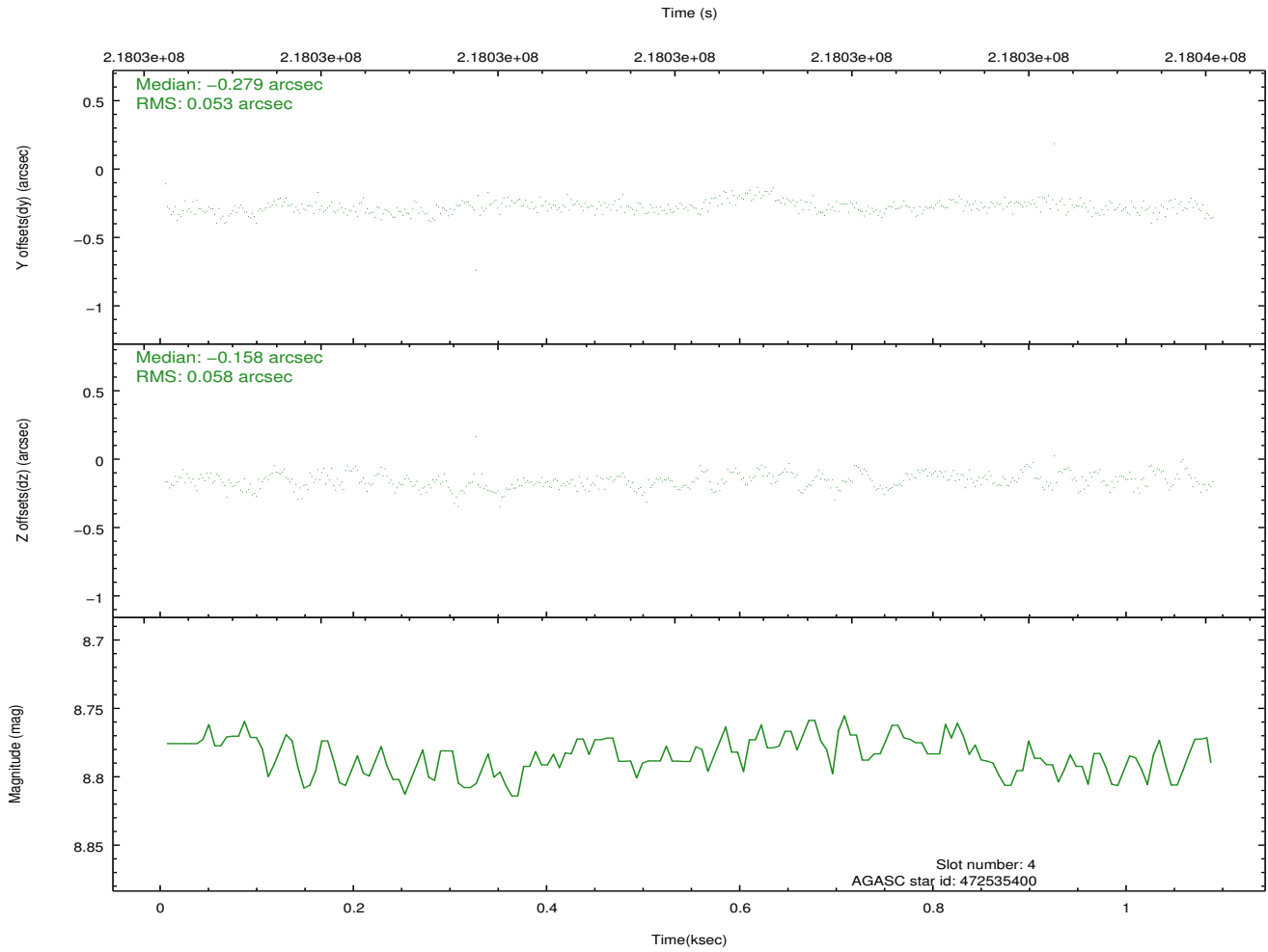
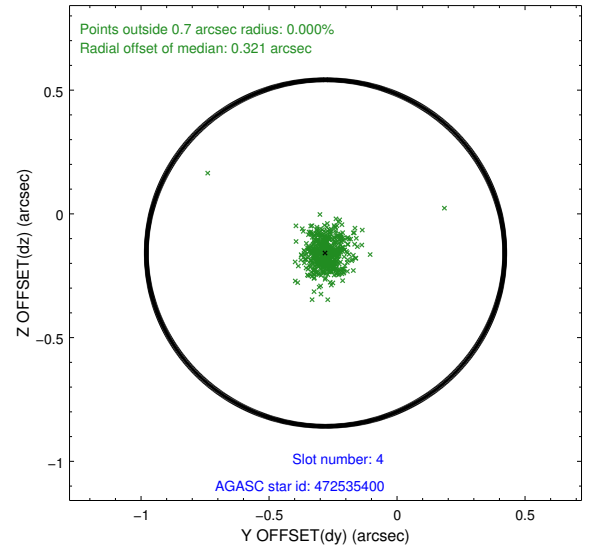
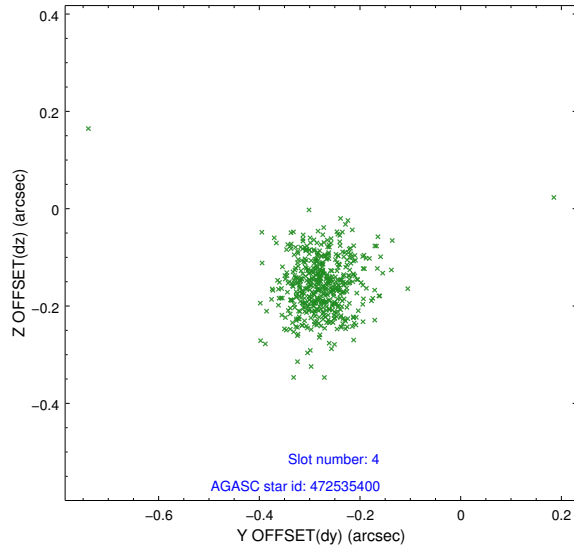


## 2.4 Star Slots

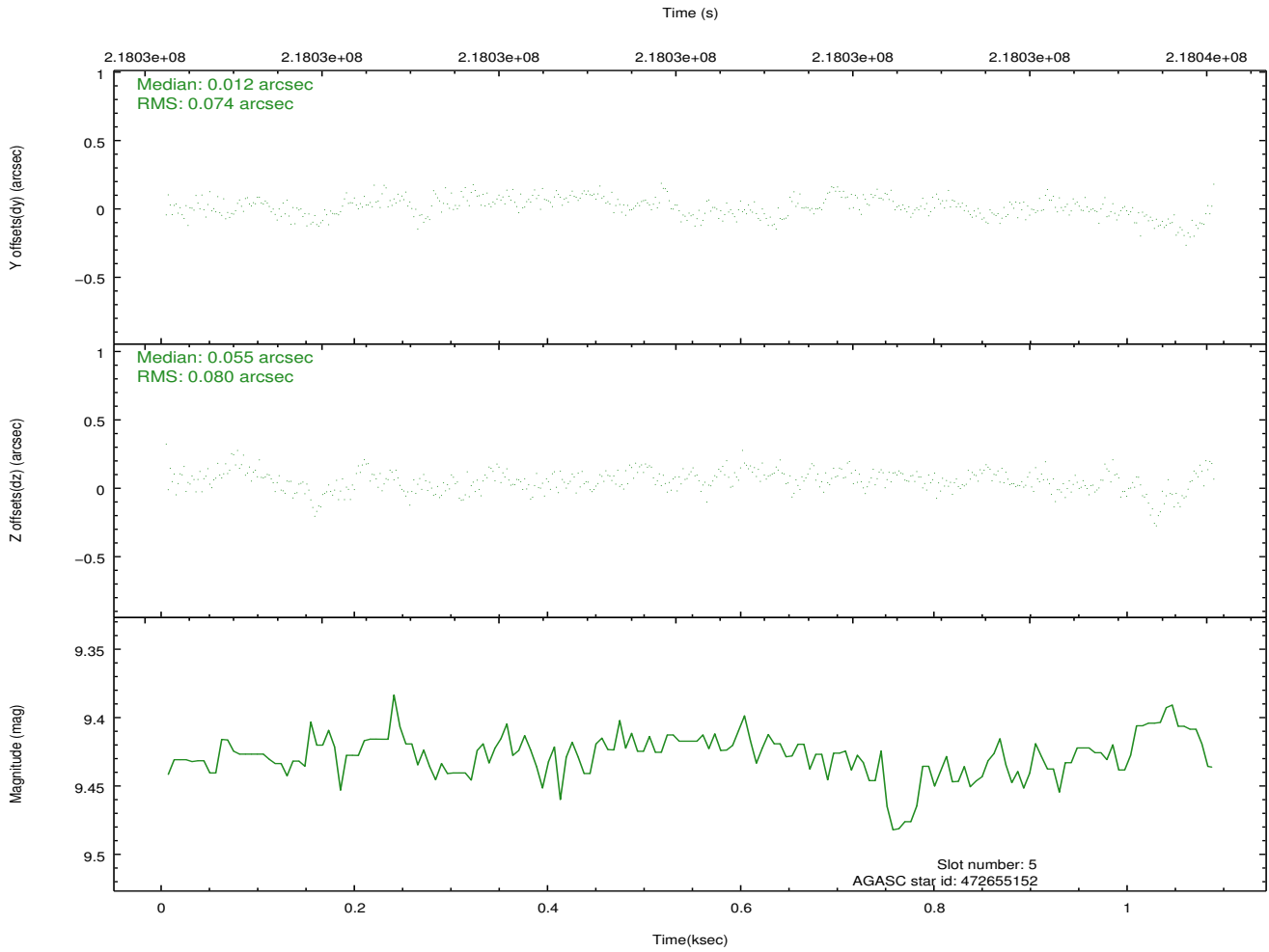
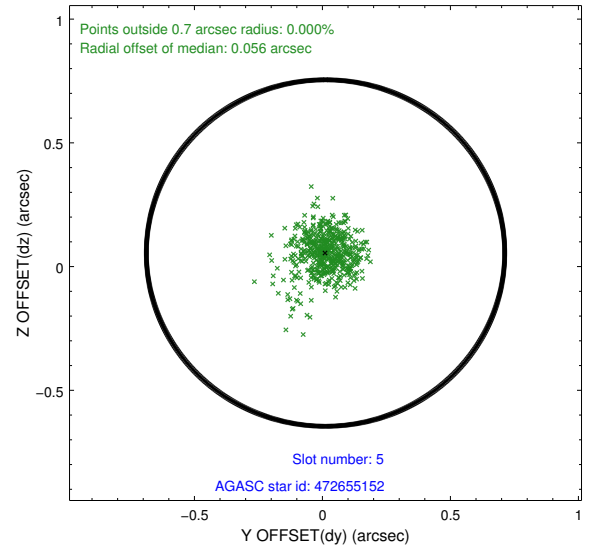
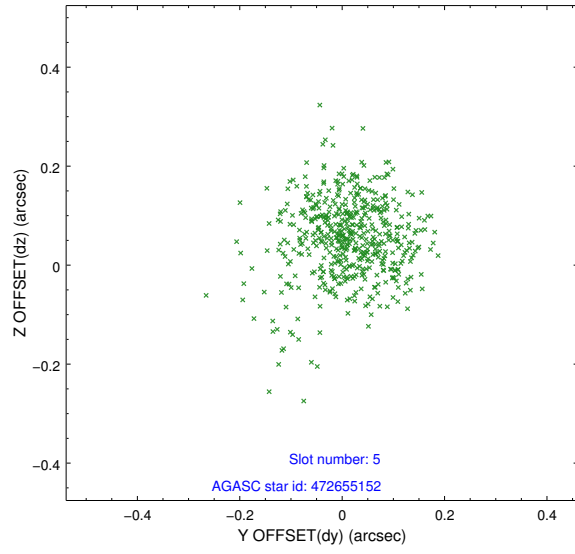
### 2.4.1 Slot 3



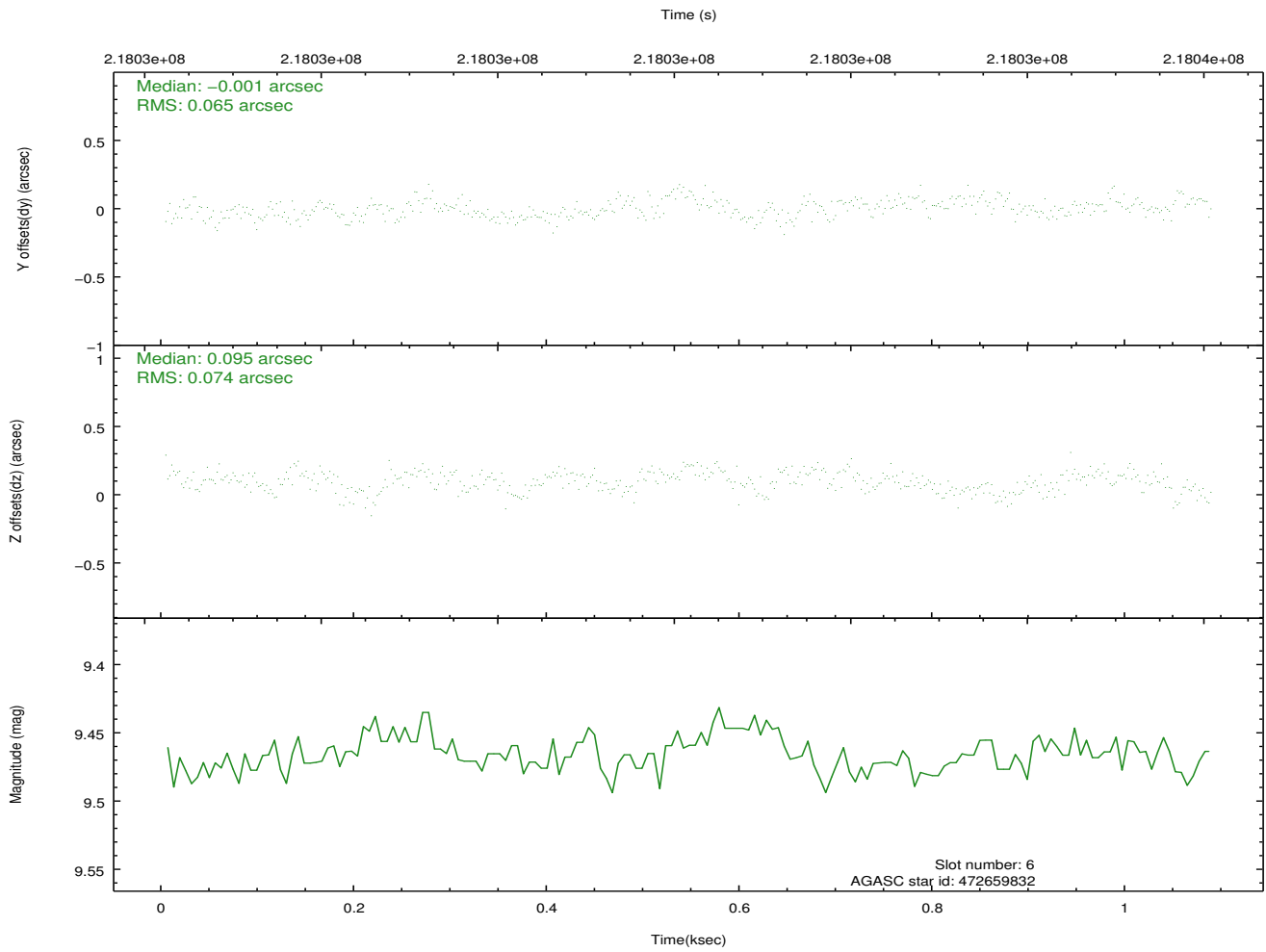
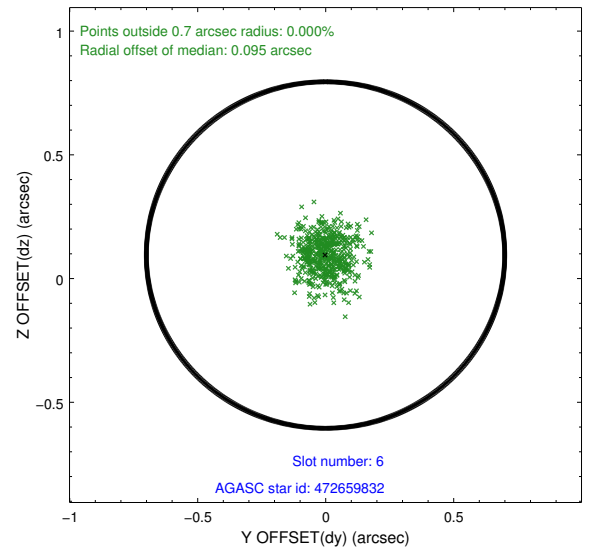
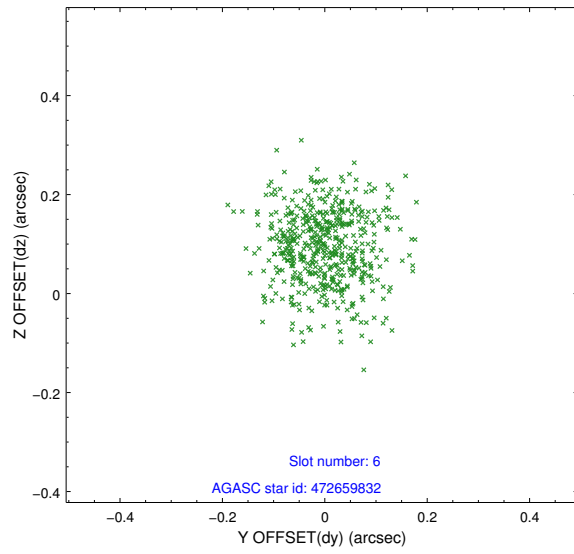
## 2.4.2 Slot 4



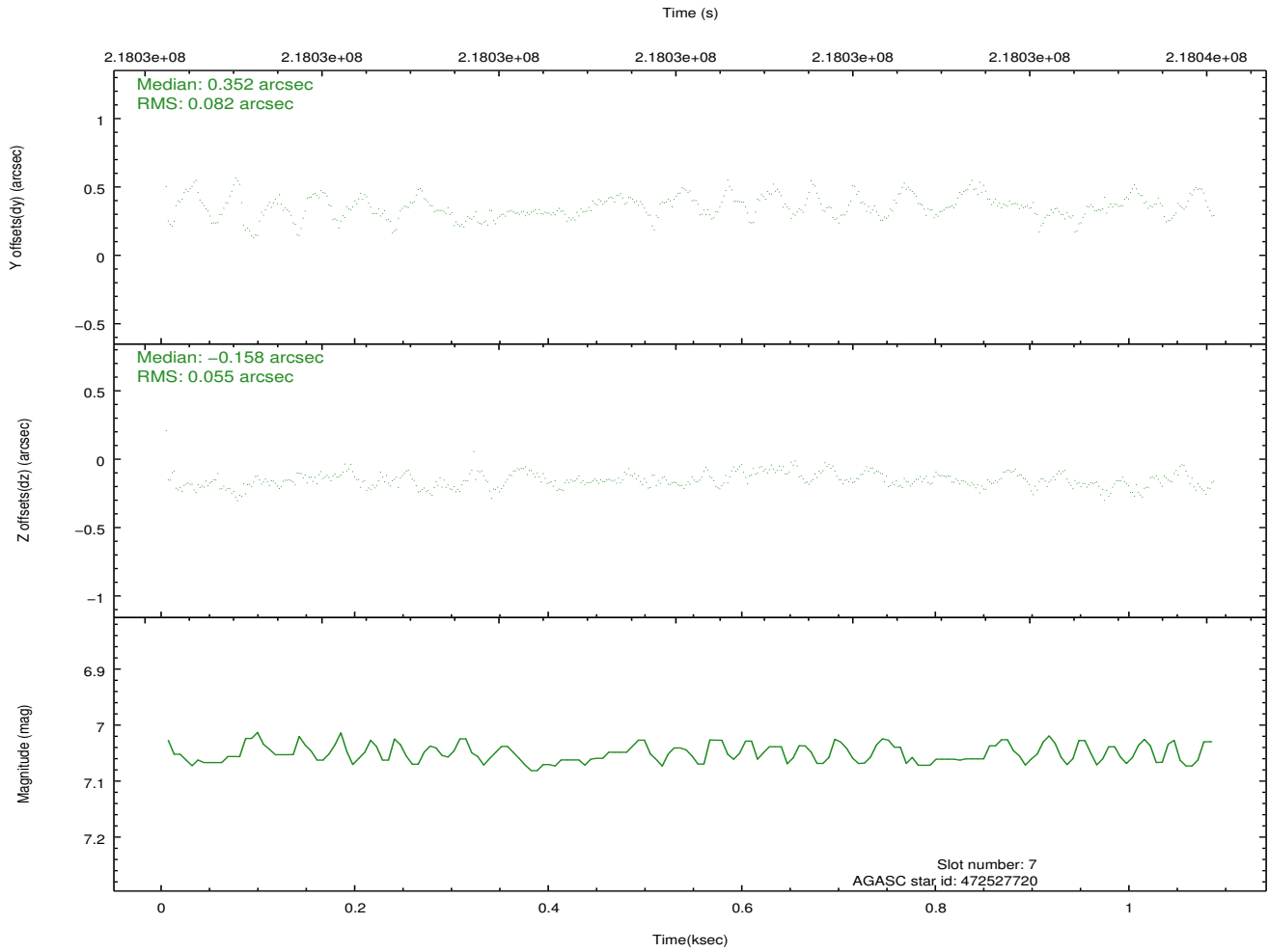
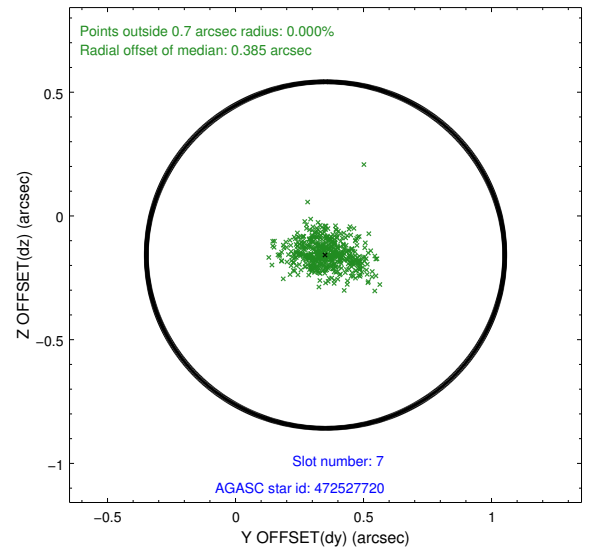
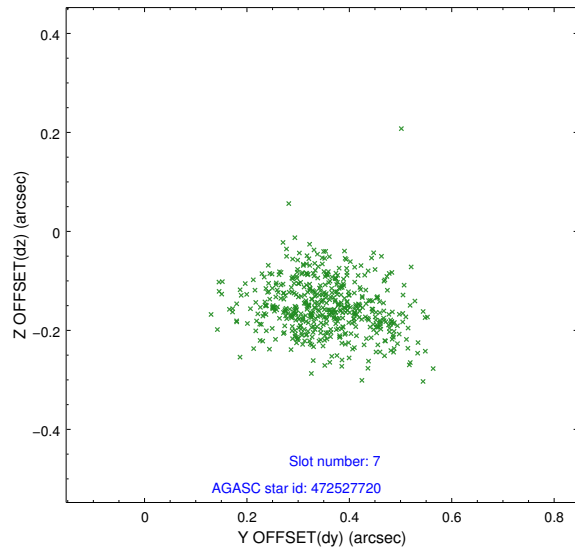
### 2.4.3 Slot 5



## 2.4.4 Slot 6

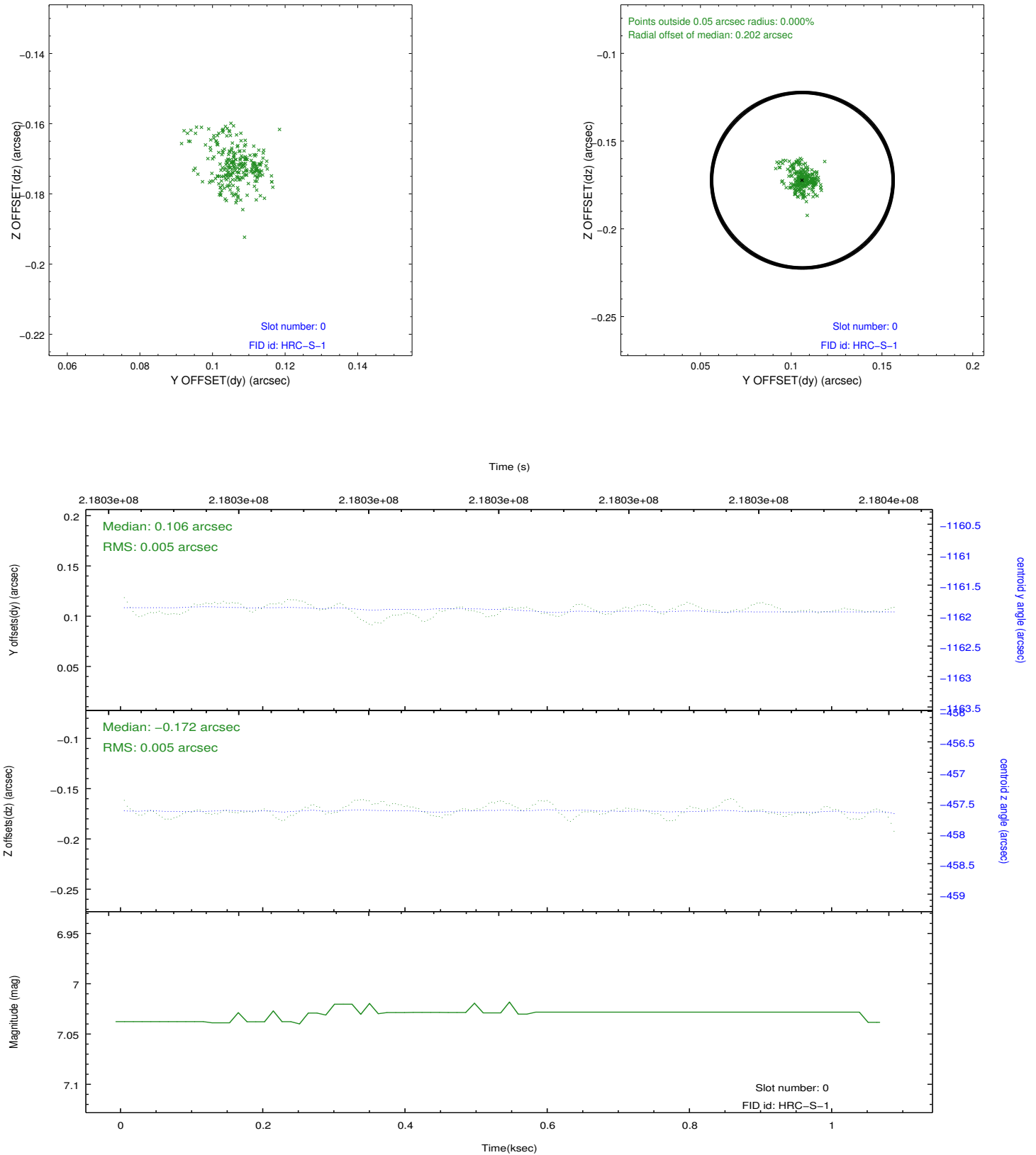


## 2.4.5 Slot 7

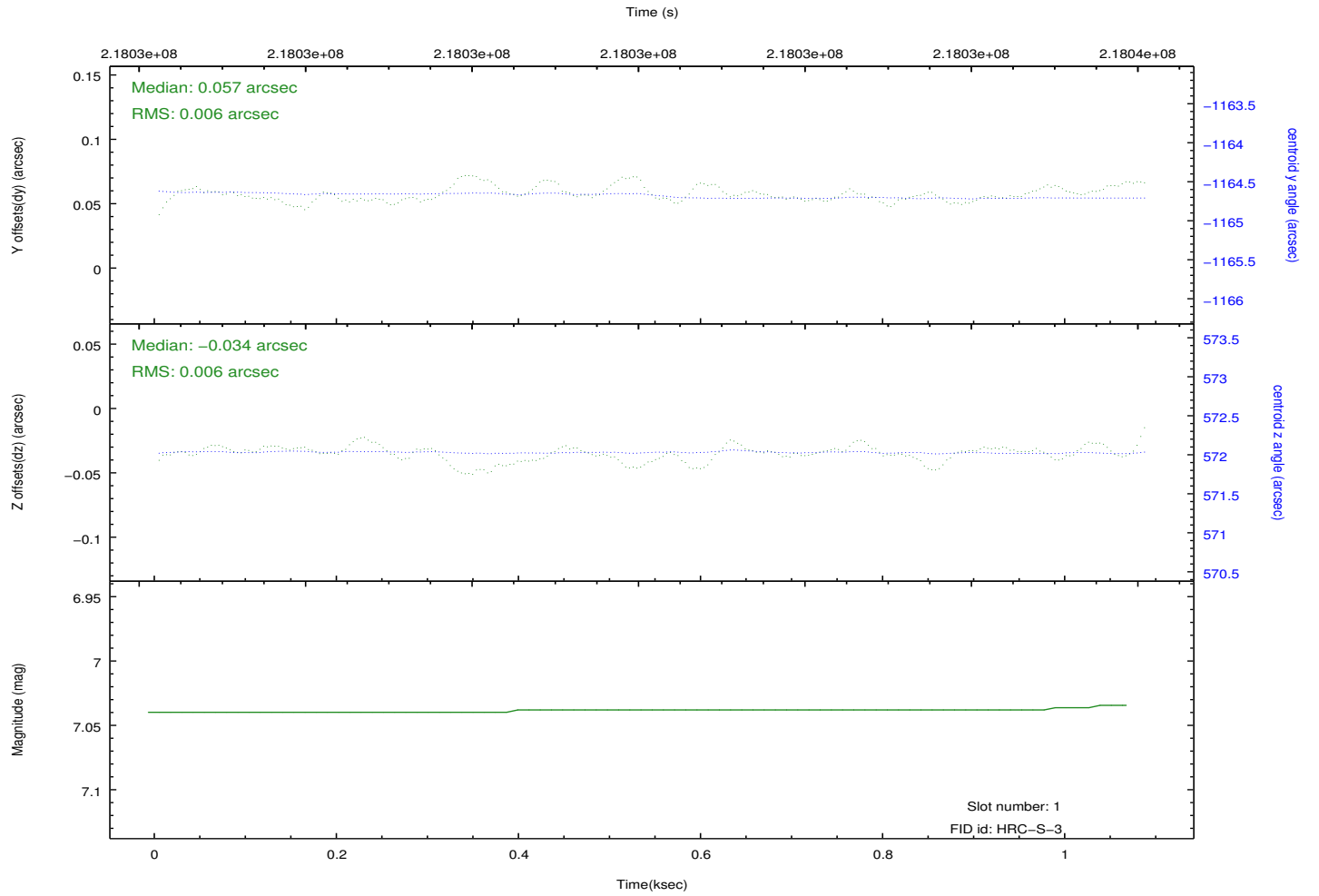
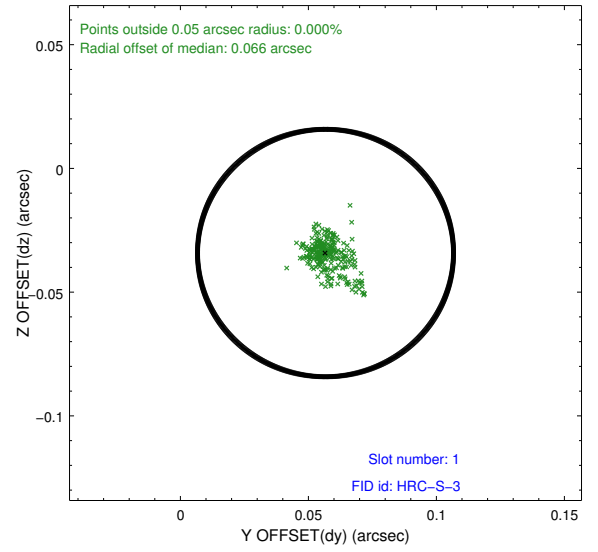
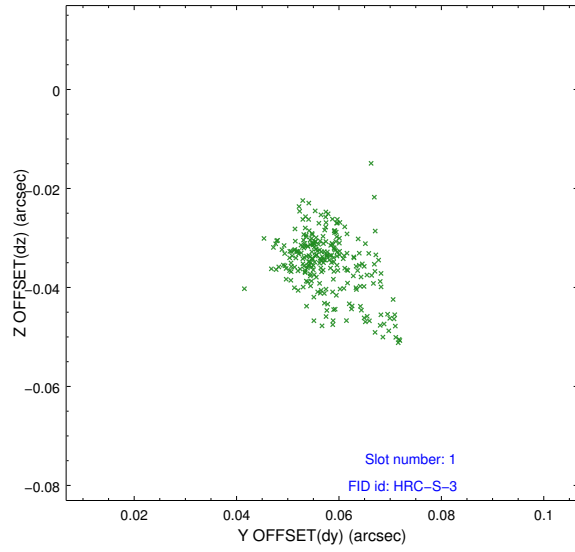


## 2.5 FID Slots

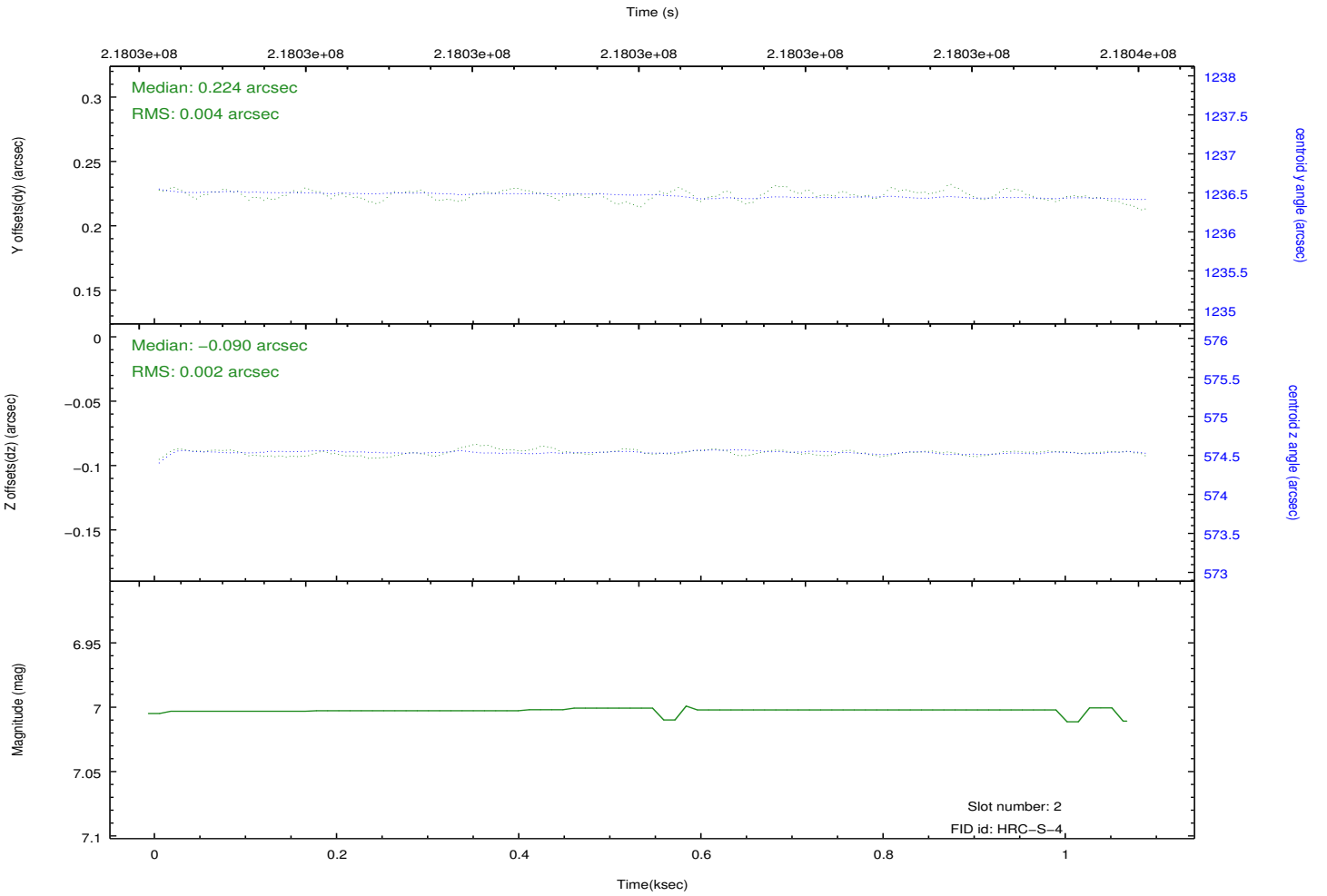
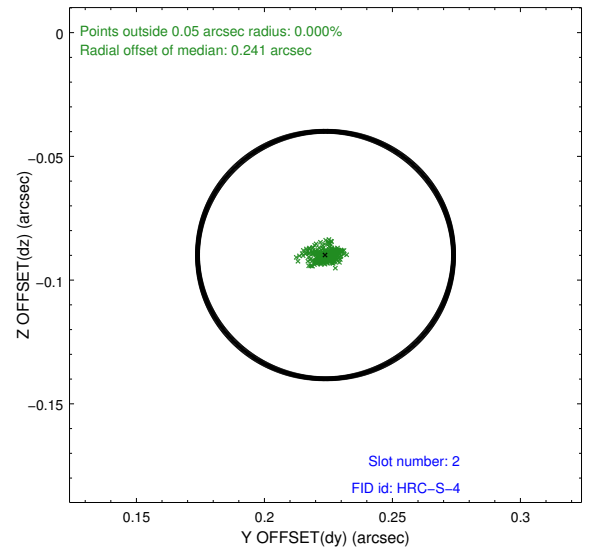
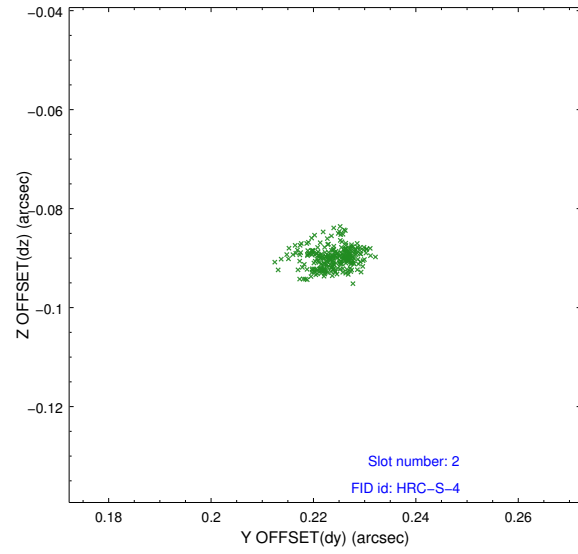
### 2.5.1 Slot 0



## 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)	2013.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.05498129

### A.2 Comments