

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 10603 - L2 Version 4  
Chandra X-Ray Center

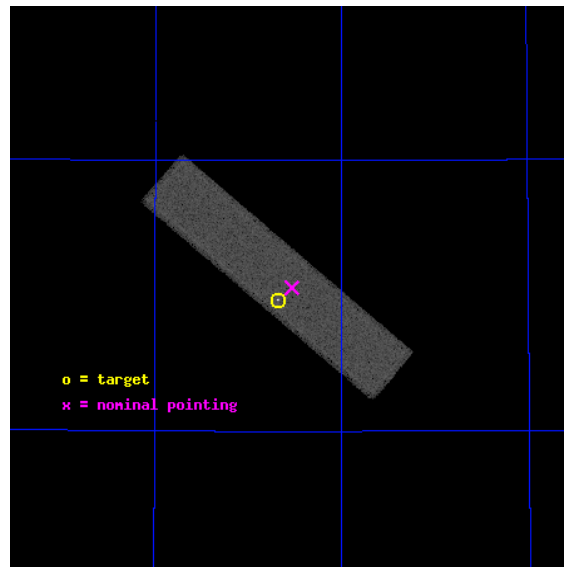
L2 Processing Date : Aug 13 2012

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# 1 Front

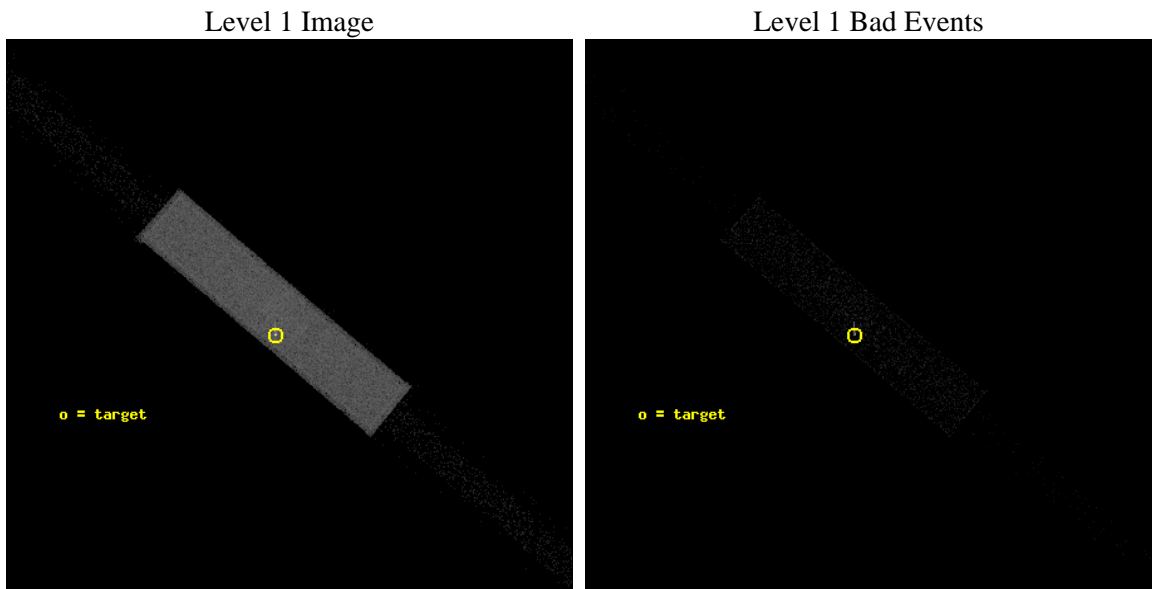
seq_num	290839	Sequence number
obs_id	10603	Observation id
title	AO-10 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.13292949654	Nominal RA [deg]
dec_nom	45.765035094621	Nominal Dec [deg]
roll_nom	220.14865450363	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1184.1313095689	[s]
livetime	1172.6913016989	Ontime multiplied by DTCOR
l2events	82643	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	8.4.5	Processing system revision	ontime	1184.1313095689	[s]
caldbver	4.5.1.1	&#160	l1events	126425	Number of level 1 events
date	2012-08-13T15:01:20	Date and time of file creation			
revision	4	Processing version of data			

## 2.1.3 Events

### Level 1 Events

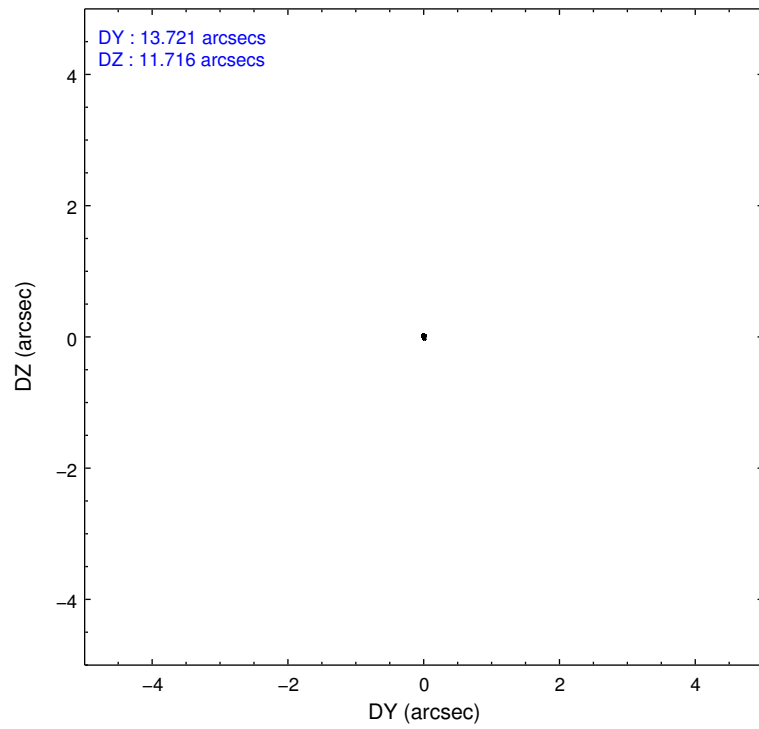
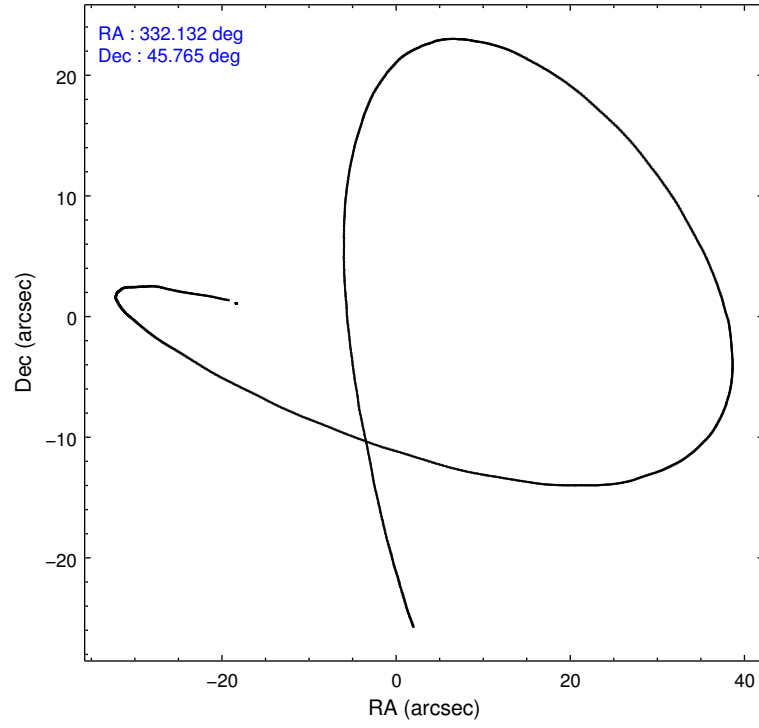
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1032	124345	1048
rejected events	1032	25915	1048
rejected %	100%	20%	100%

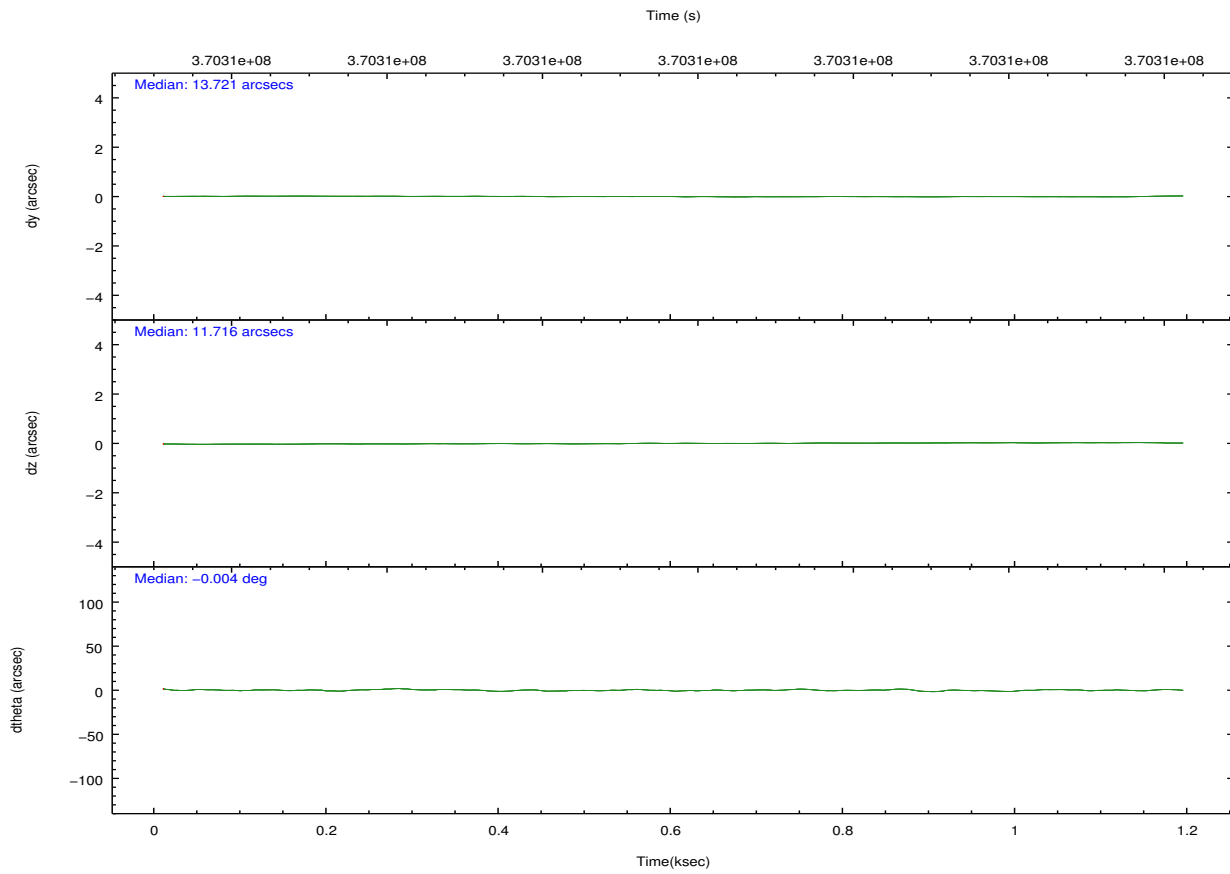
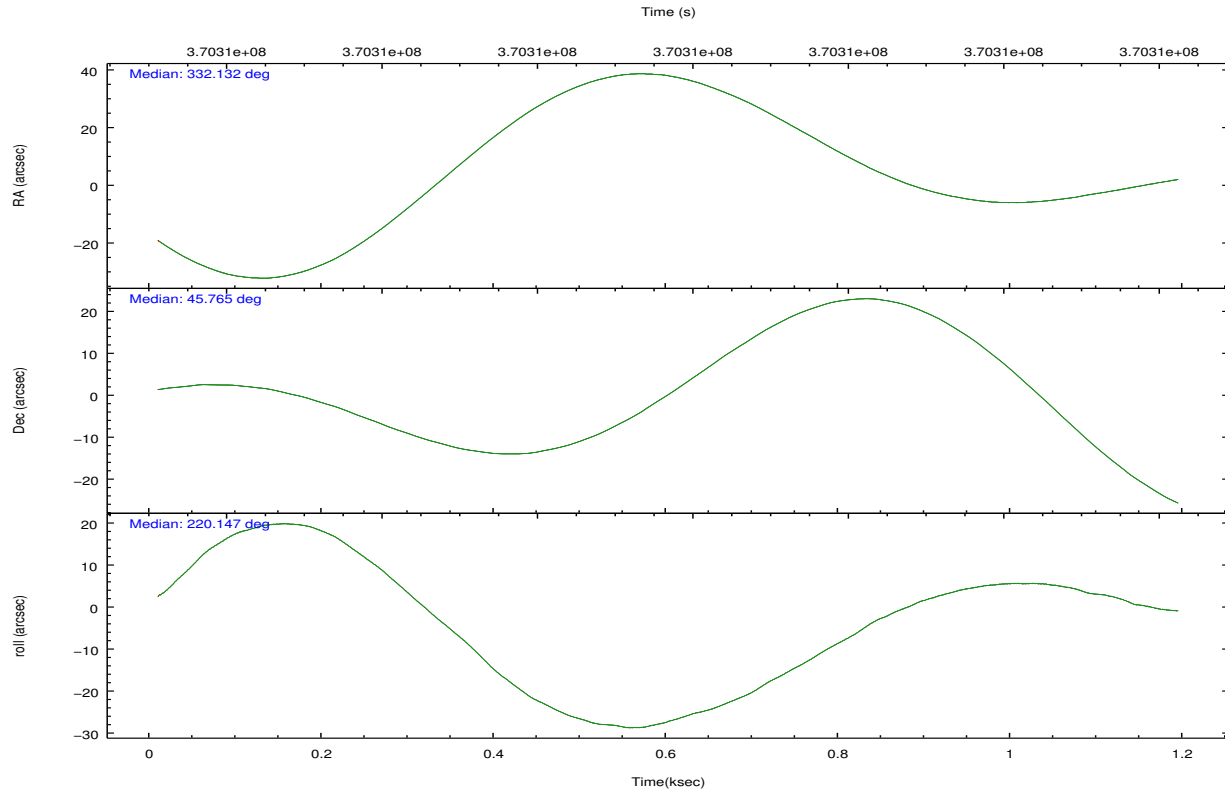
## 2.2 Compared Parameters

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	332.145994	332.1329294965372
[deg] Pointing Dec	45.792254	45.76503509462109
[deg] Pointing Roll	220.071976	220.148654503634
[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)	370308773.184000	370308397.20163
Observation start date	2009-09-25T23:31:47	2009-09-25T23:26:37
[s] Observation end time (MET)	370309773.184000	370309907.02671
Observation end date	2009-09-25T23:48:27	2009-09-25T23:51:47

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

## 2.3 Aspect



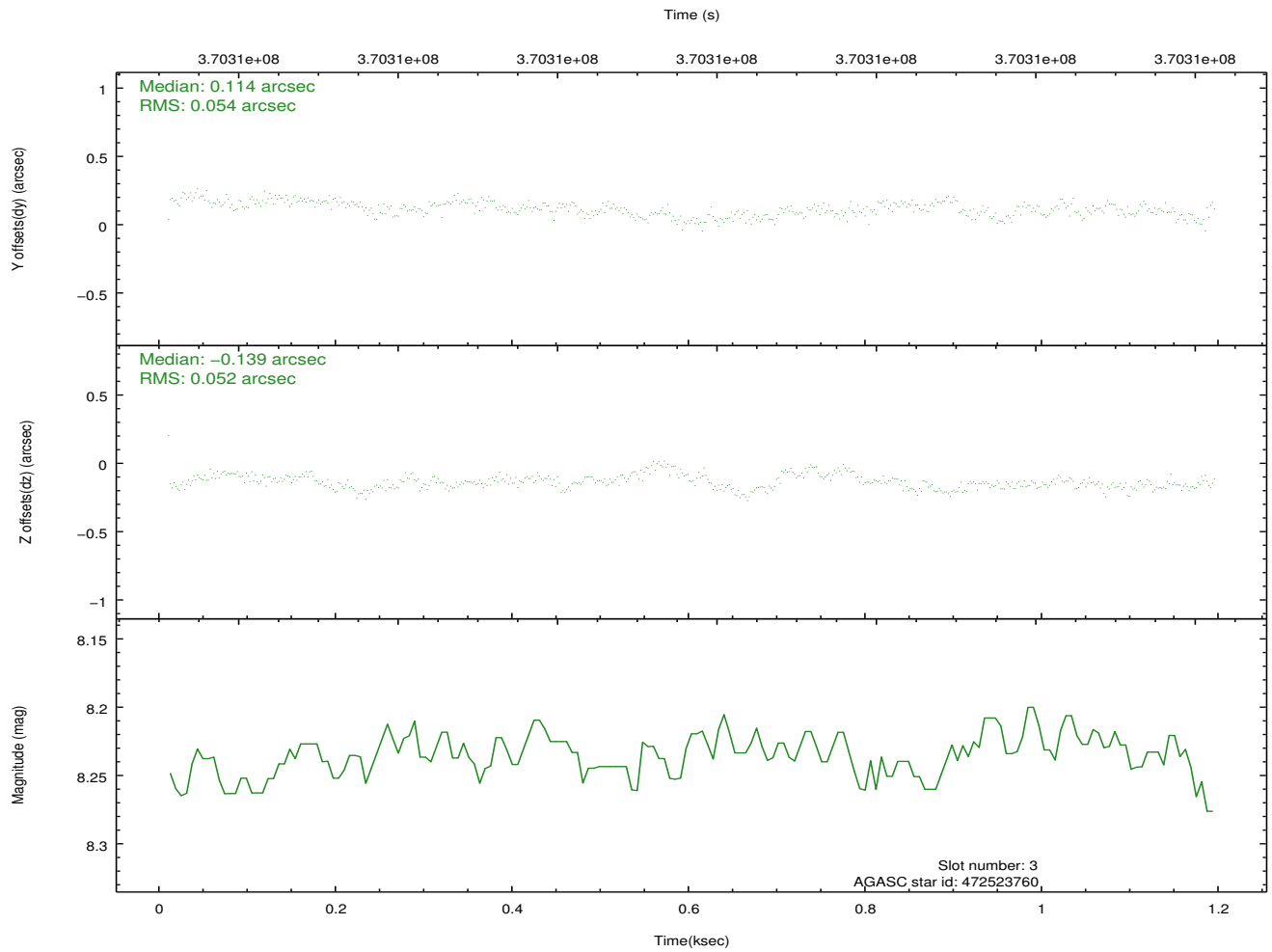
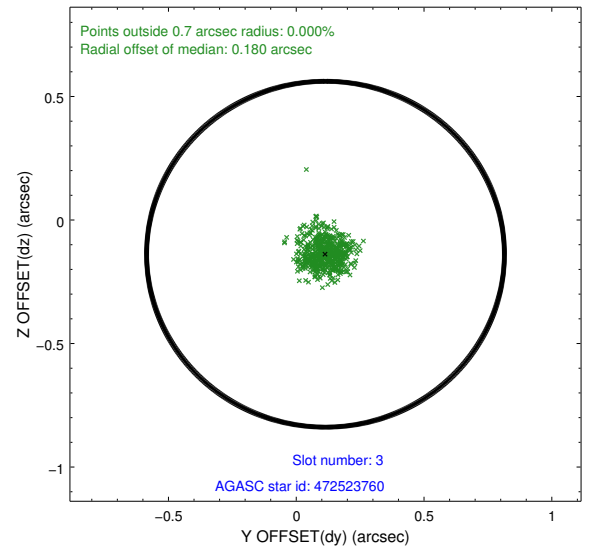
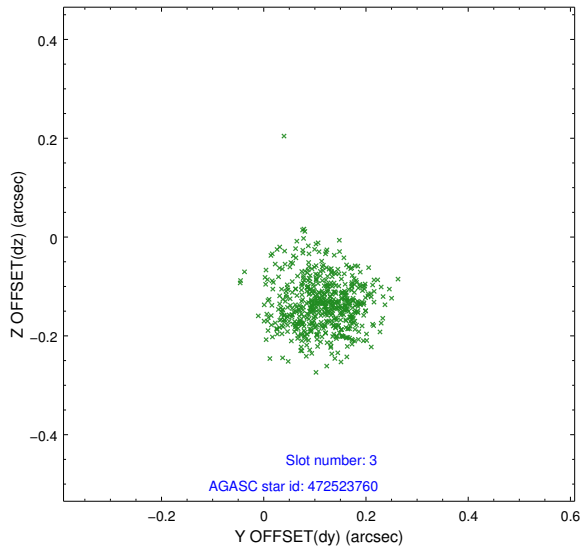


### Slot Statistics

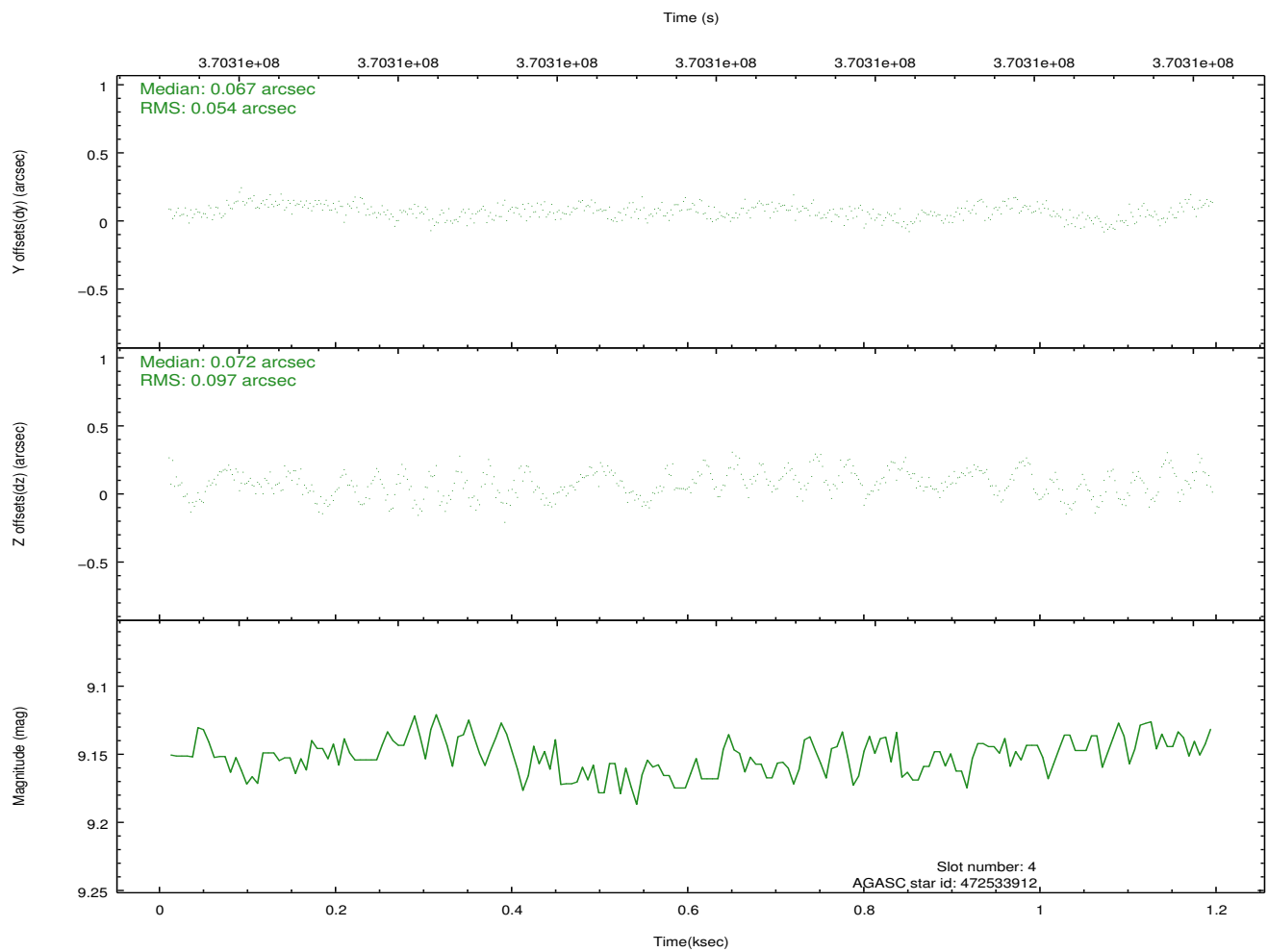
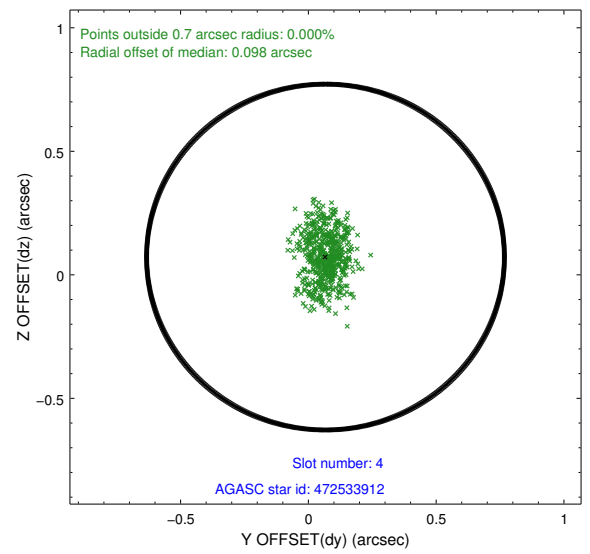
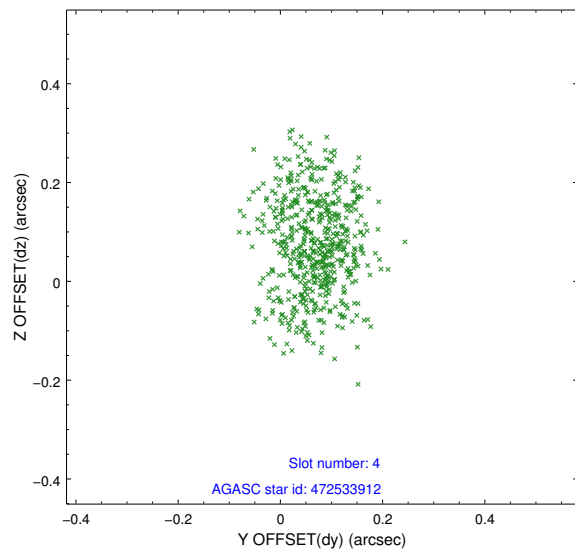
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-2	6.96	290	0.193	-0.125	0.004	0.008	0.000000	0.000000	1231.69	-453.06
1	FID	HRC-S-3	6.98	290	0.073	-0.074	0.004	0.008	0.000000	0.000000	-1166.58	567.56
2	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
3	GUIDE	472523760	8.24	579	0.114	-0.139	0.078	0.126	331.645363	45.403260	1866.42	256.57
4	GUIDE	472533912	9.15	579	0.067	0.072	0.120	0.191	331.791136	46.368695	-660.32	-2153.86
5	GUIDE	472655152	9.42	578	0.121	-0.031	0.124	0.192	332.504239	45.862991	-854.58	380.70
6	GUIDE	472525528	6.64	579	-0.267	0.057	0.078	0.126	331.551102	45.248694	2407.06	526.00
7	GUIDE	472659832	9.45	578	-0.028	0.029	0.142	0.242	332.780399	46.098139	-1921.76	175.53

## 2.4 Star Slots

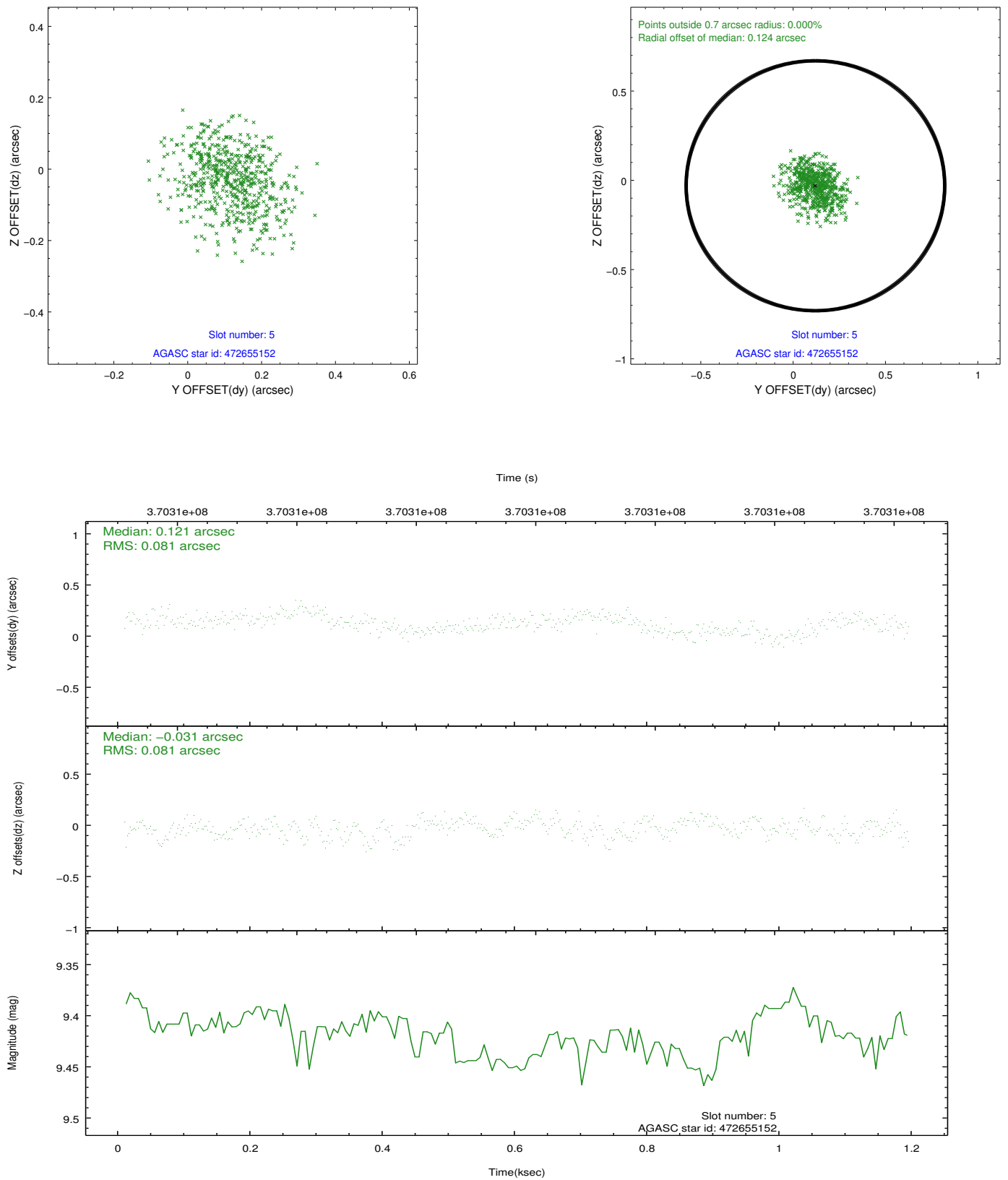
### 2.4.1 Slot 3



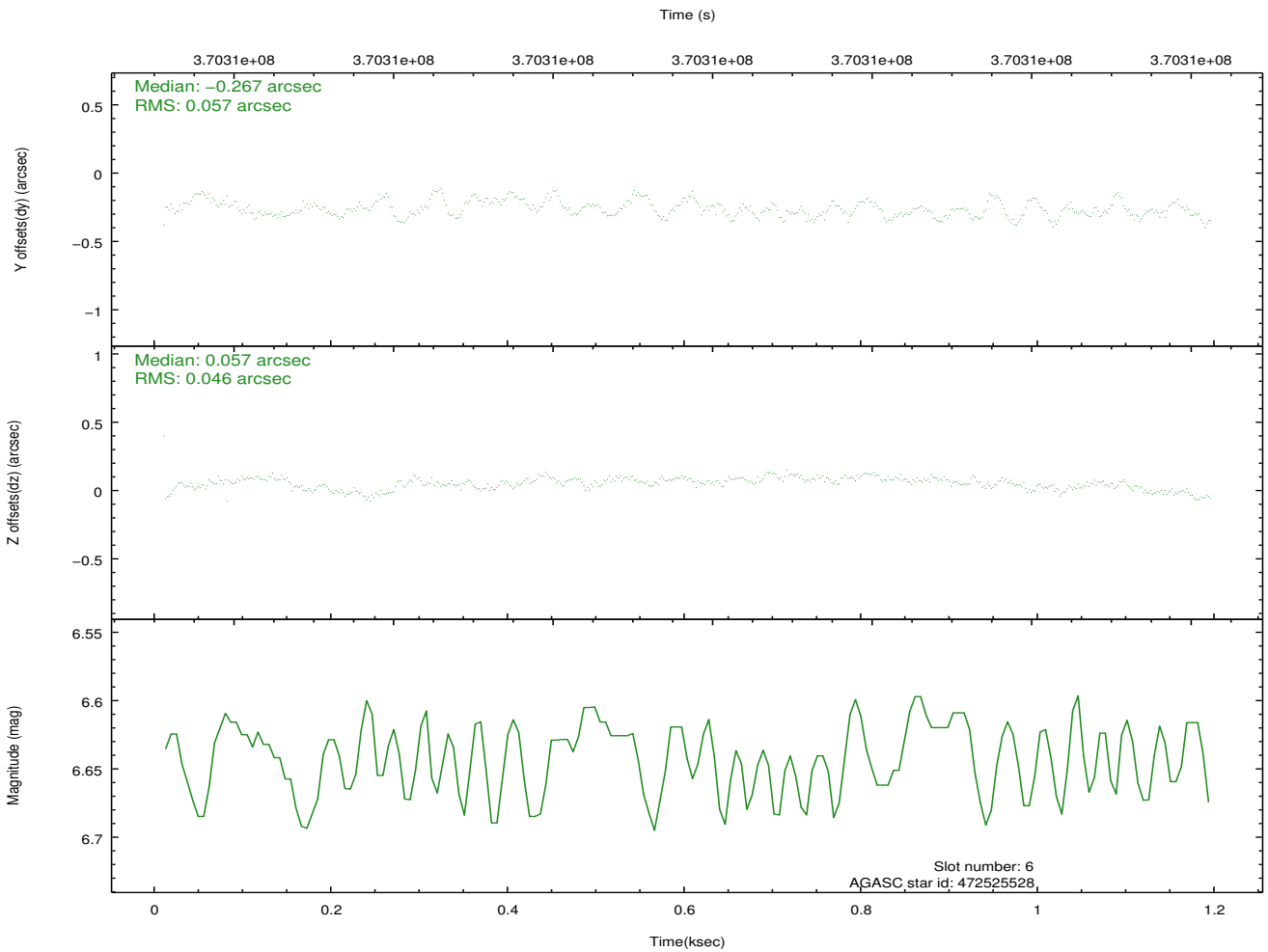
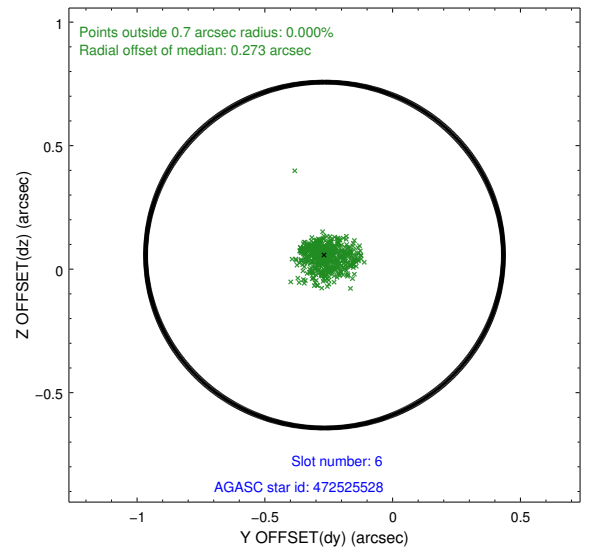
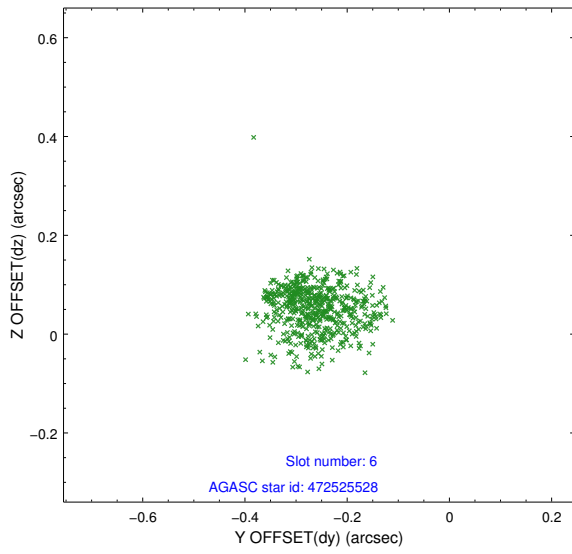
## 2.4.2 Slot 4



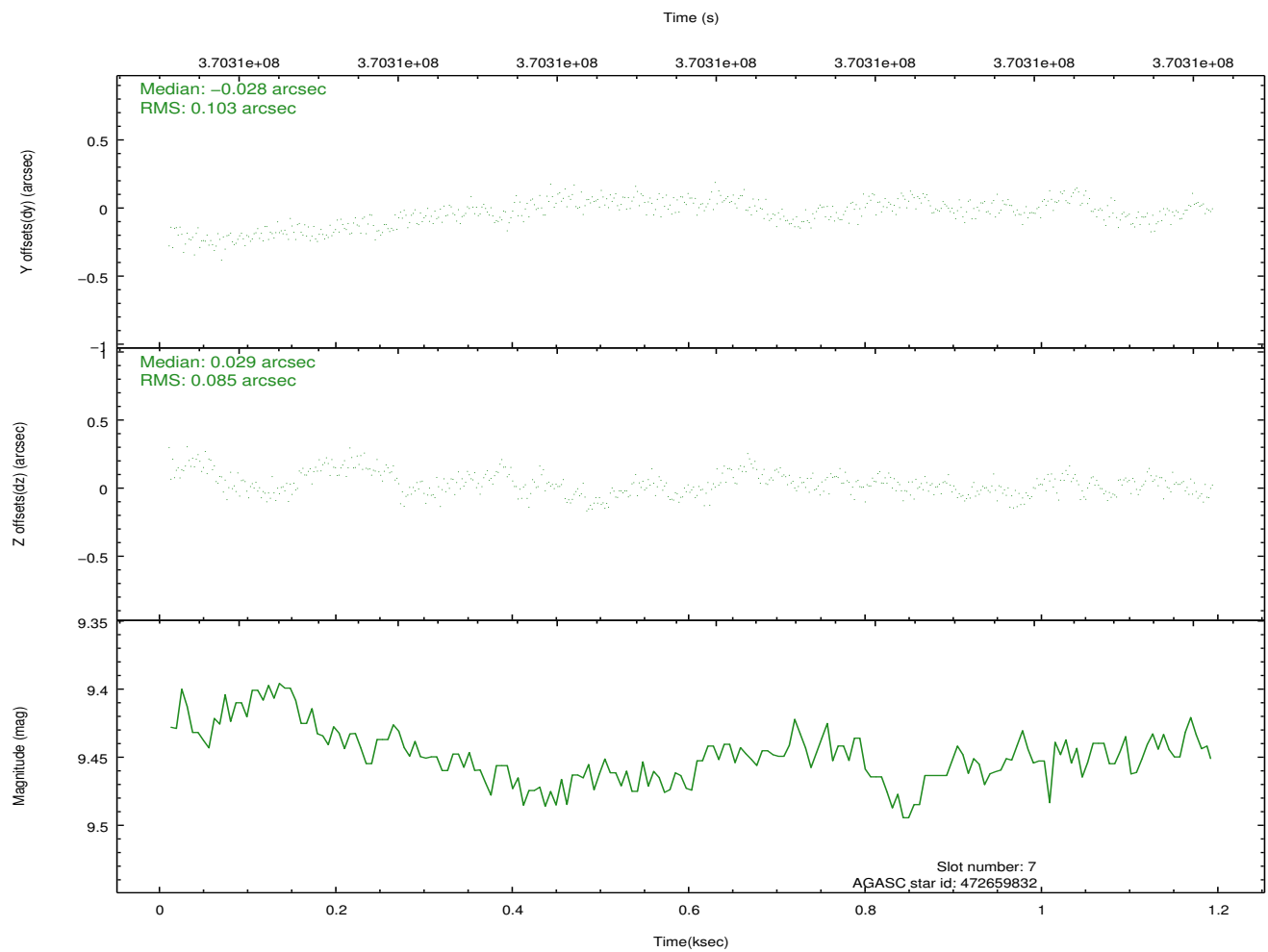
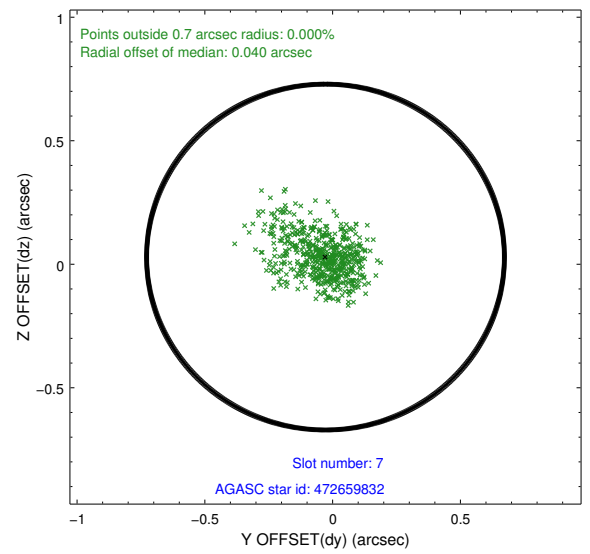
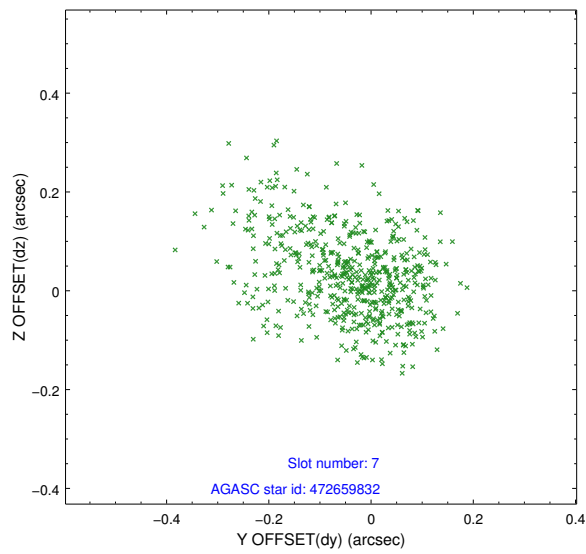
### 2.4.3 Slot 5



### 2.4.4 Slot 6

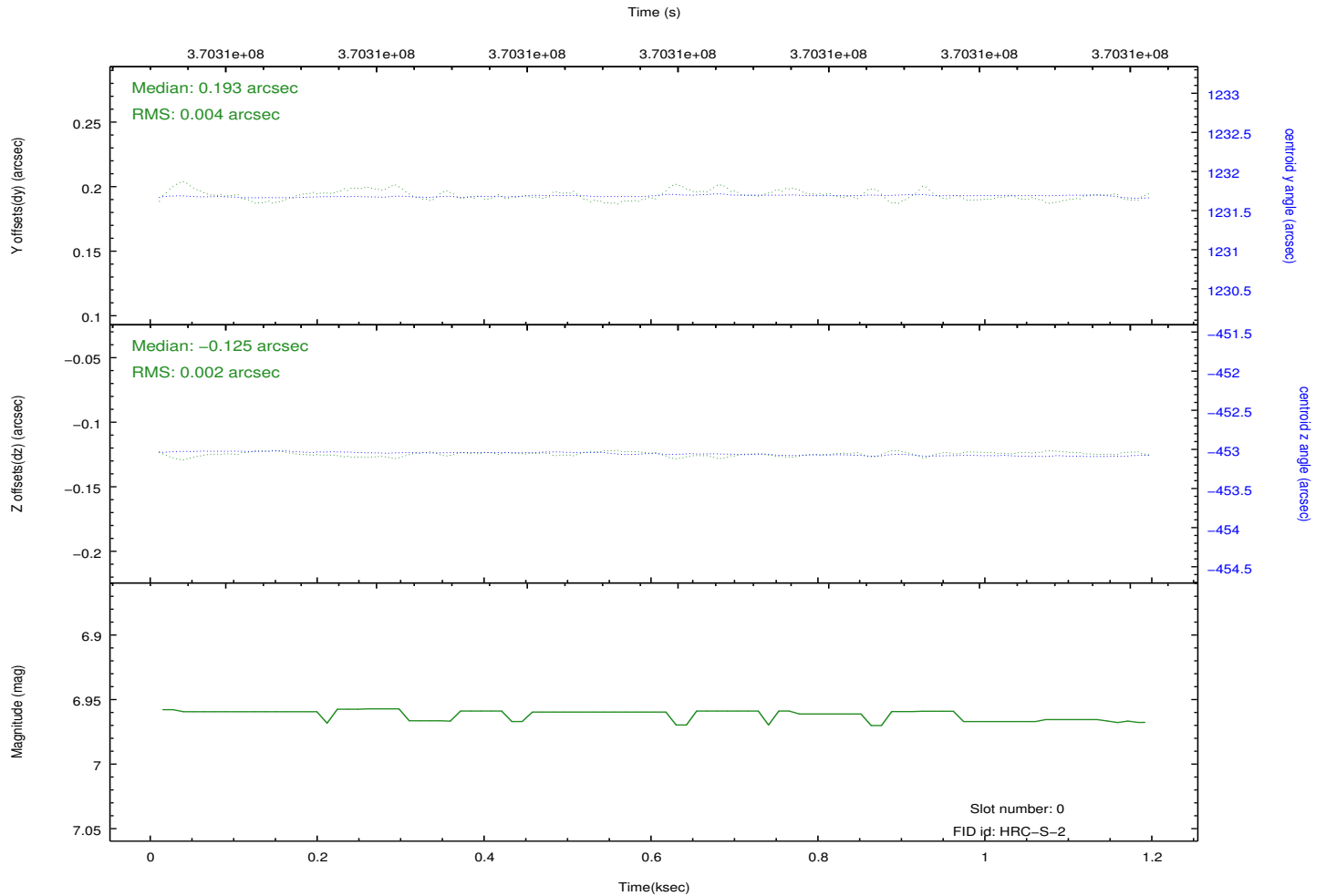
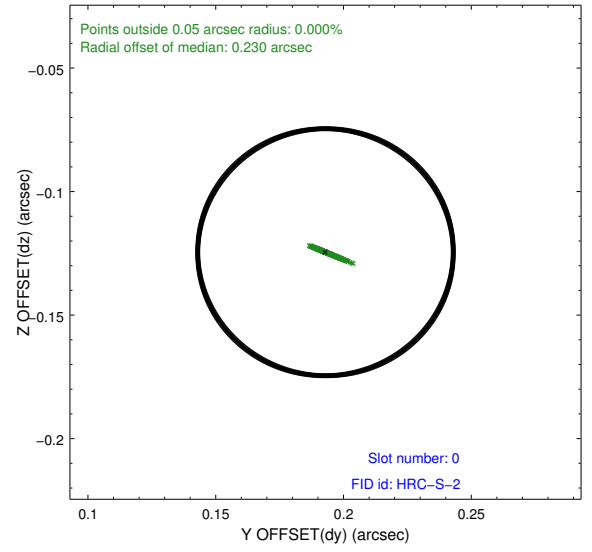
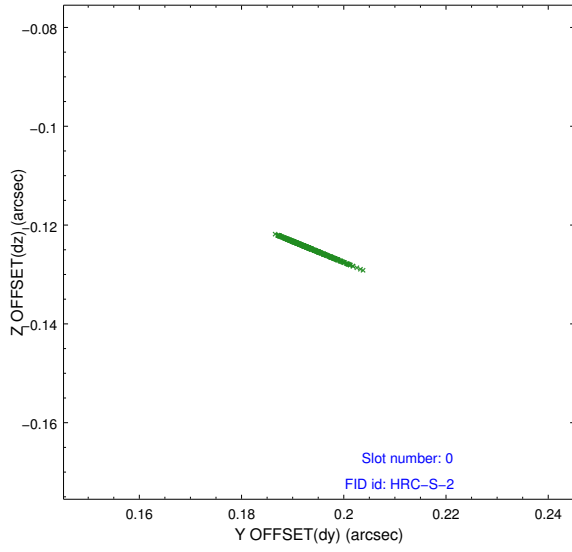


## 2.4.5 Slot 7

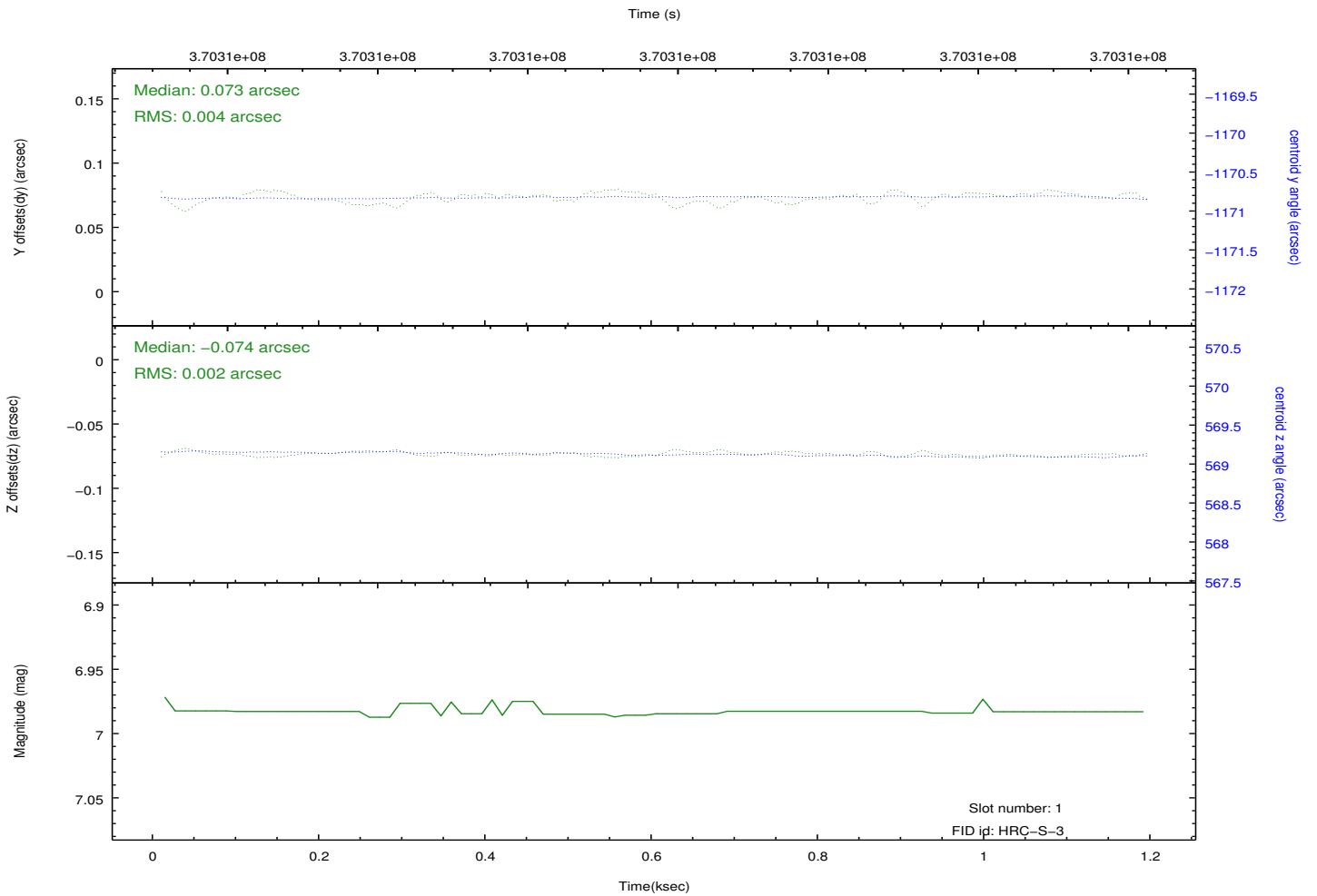
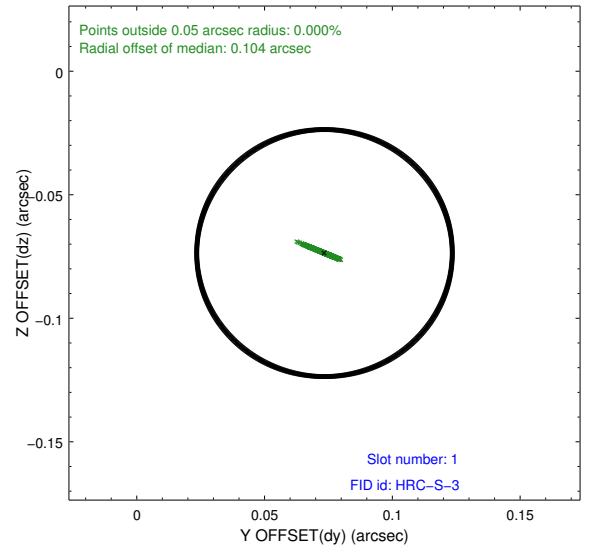
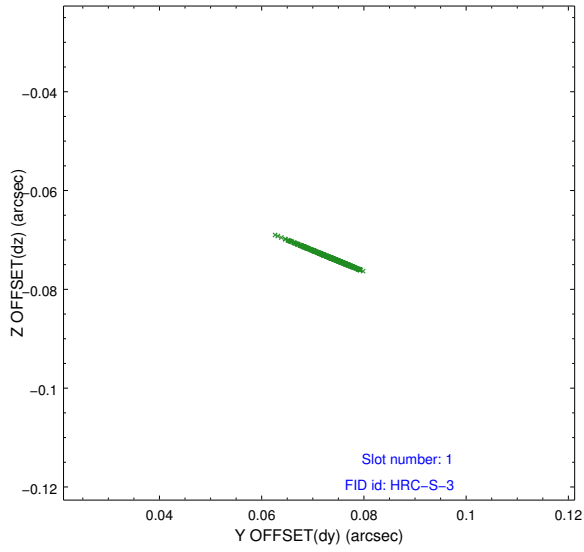


## 2.5 FID Slots

### 2.5.1 Slot 0



## 2.5.2 Slot 1



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.08.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1841313095093

## A.2 Comments

The fid light in slot 2 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this fid light from the solution.