

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8341 - L2 Version 5  
Chandra X-Ray Center

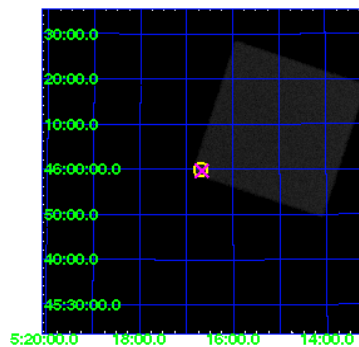
L2 Processing Date : Aug 11 2012

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# 1 Front

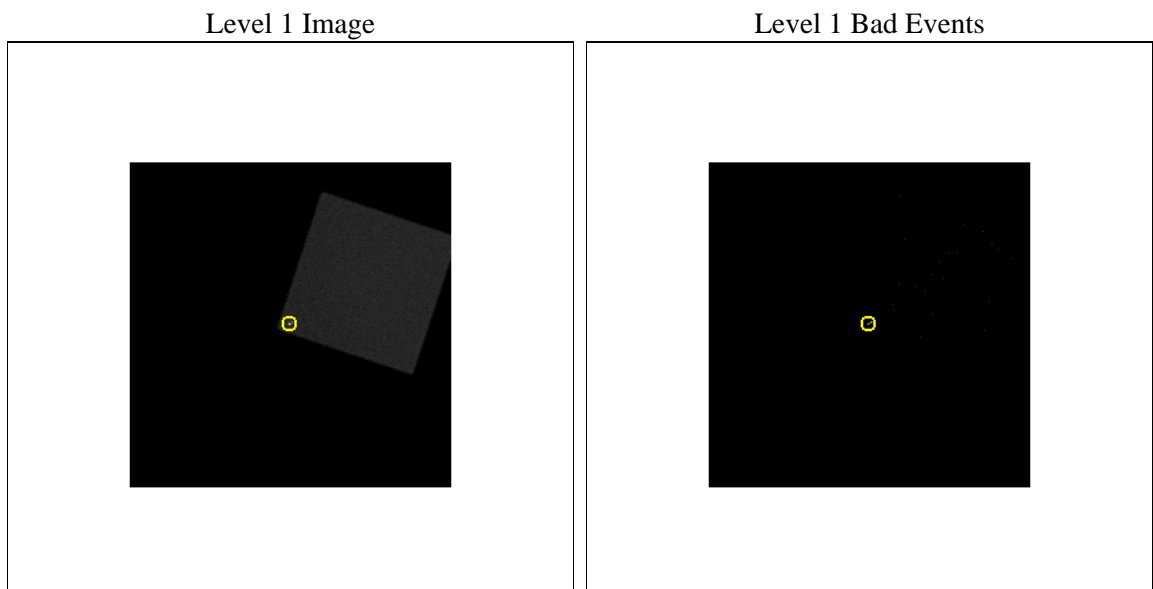
seq_num	290720	Sequence number
obs_id	8341	Observation id
title	Improving the De-Gap Corrections for the HRC-I	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Capella	Source name
ra_targ	79.1725	Observer's specified target RA [deg]
dec_targ	45.998	Observer's specified target Dec [deg]
ra_nom	79.167963266955	Nominal RA [deg]
dec_nom	45.994959193613	Nominal Dec [deg]
roll_nom	243.23264027579	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5247.2314986587	[s]
livetime	5192.0148346041	Ontime multiplied by DTCOR
l2events	374525	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	5105.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5247.2314986587	[s]
caldsver	4.5.1.1	&#160	l1events	603658	Number of level 1 events
date	2012-08-11T15:56:48	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

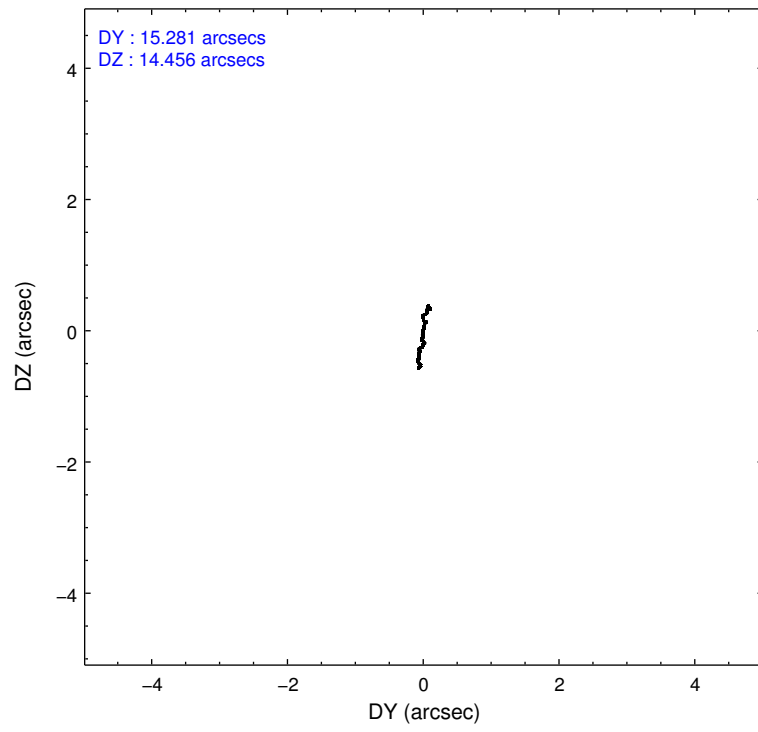
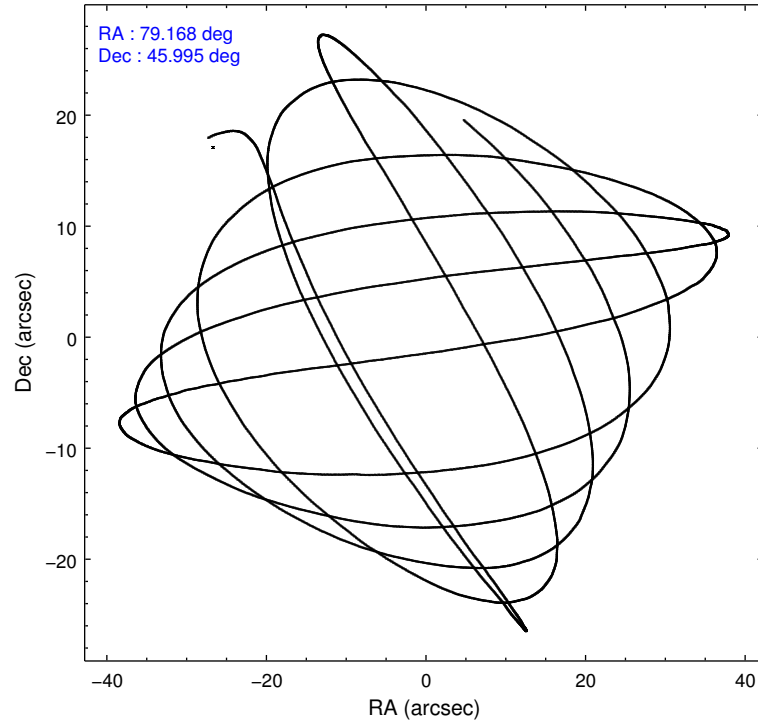
	<b>segment 0</b>
level 1 events	603658
rejected events	97695
rejected %	16%

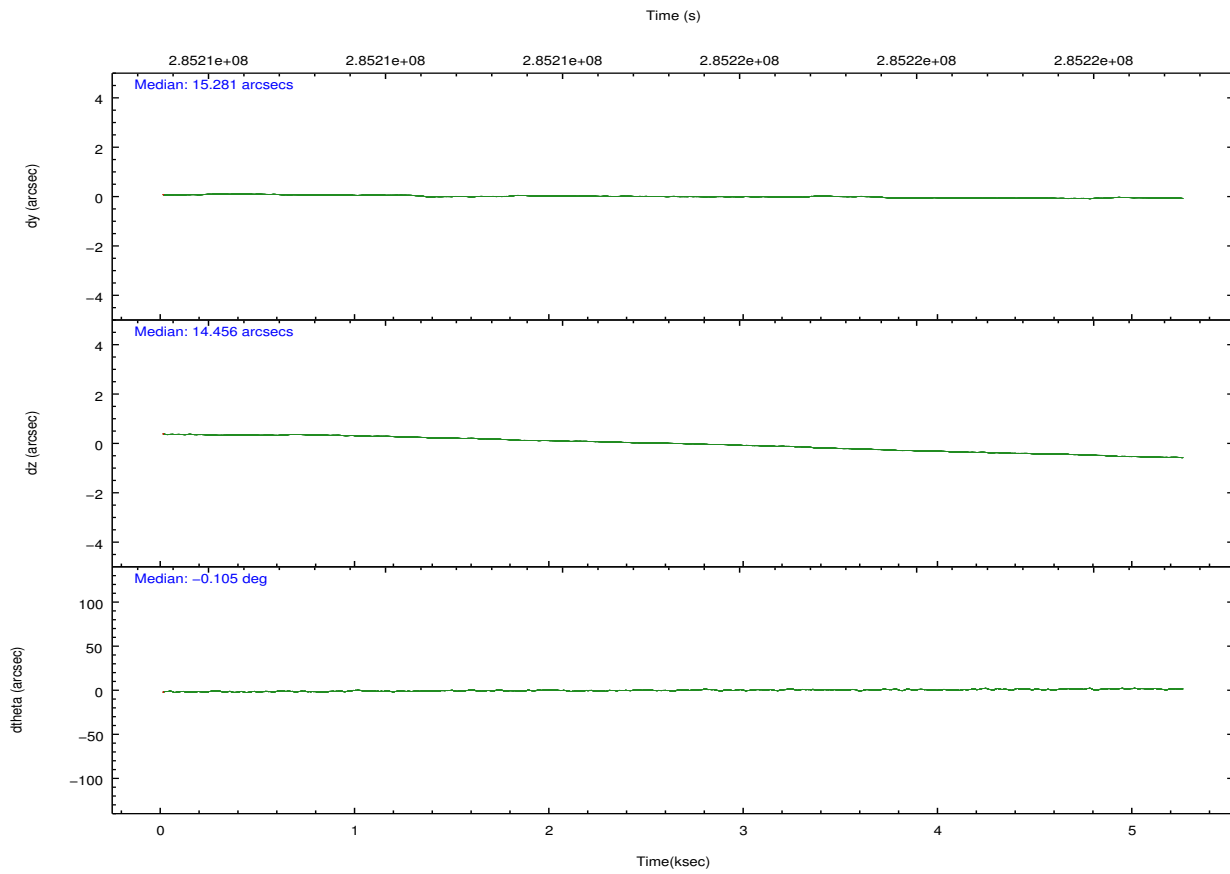
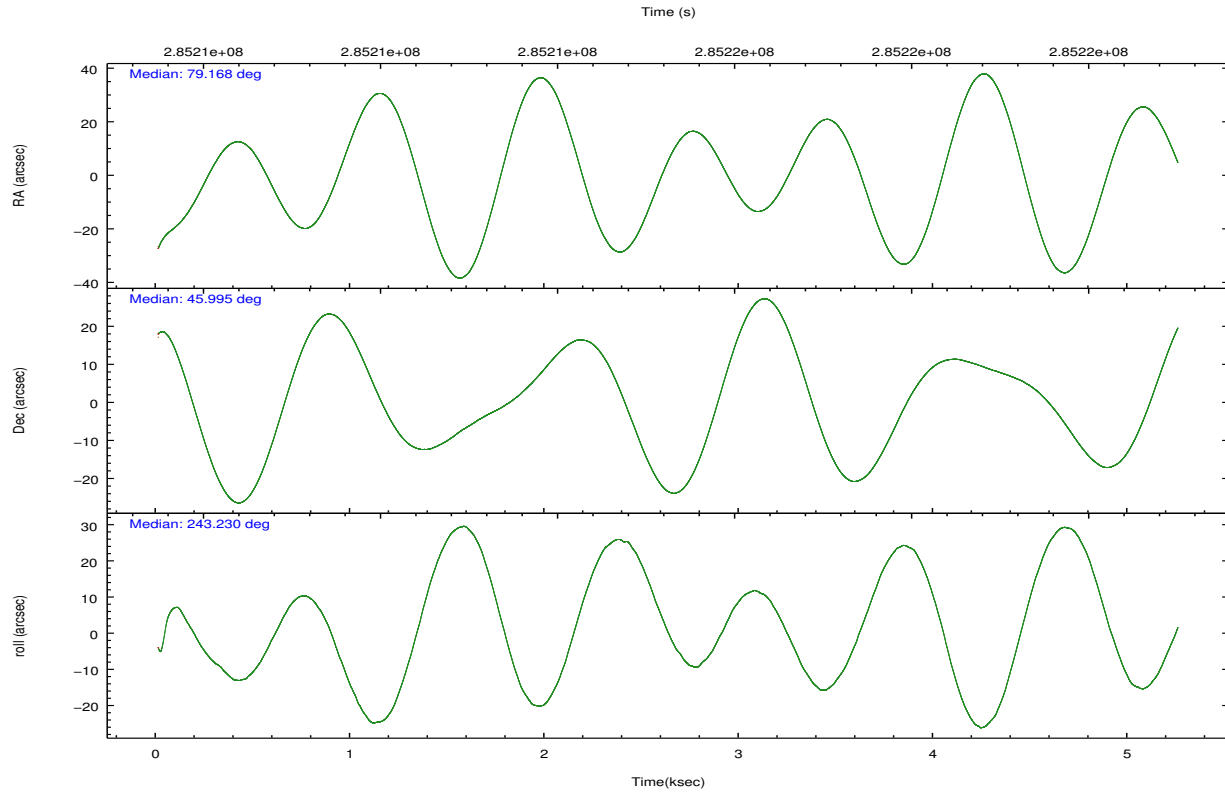


## 2.2 Compared Parameters

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	79.164835	79.16796326695518			
[deg] Pointing Dec	46.022315	45.99495919361309			
[deg] Pointing Roll	243.330426	243.2326402757892			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	183.985494	183.985022191653			
[mm] SIM translation stage offset	-57	-56.99953330005144			
[s] Observation start time (MET)	285212159.184000	285210947.31261			
Observation start date	2007-01-15T01:34:54	2007-01-15T01:15:47			
[s] Observation end time (MET)	285217264.184000	285217398.15042			
Observation end date	2007-01-15T02:59:59	2007-01-15T03:03:18			

## 2.3 Aspect



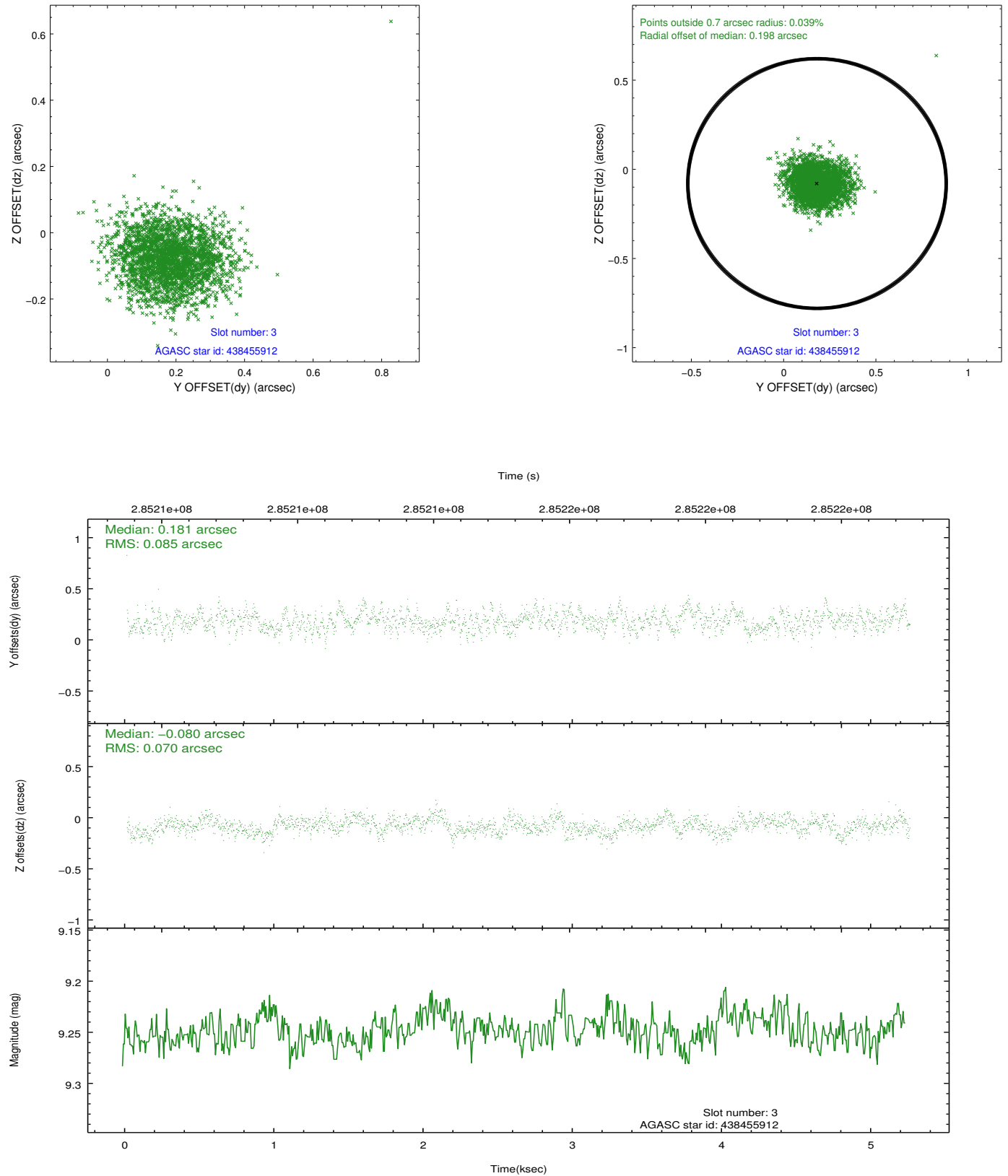


### Slot Statistics

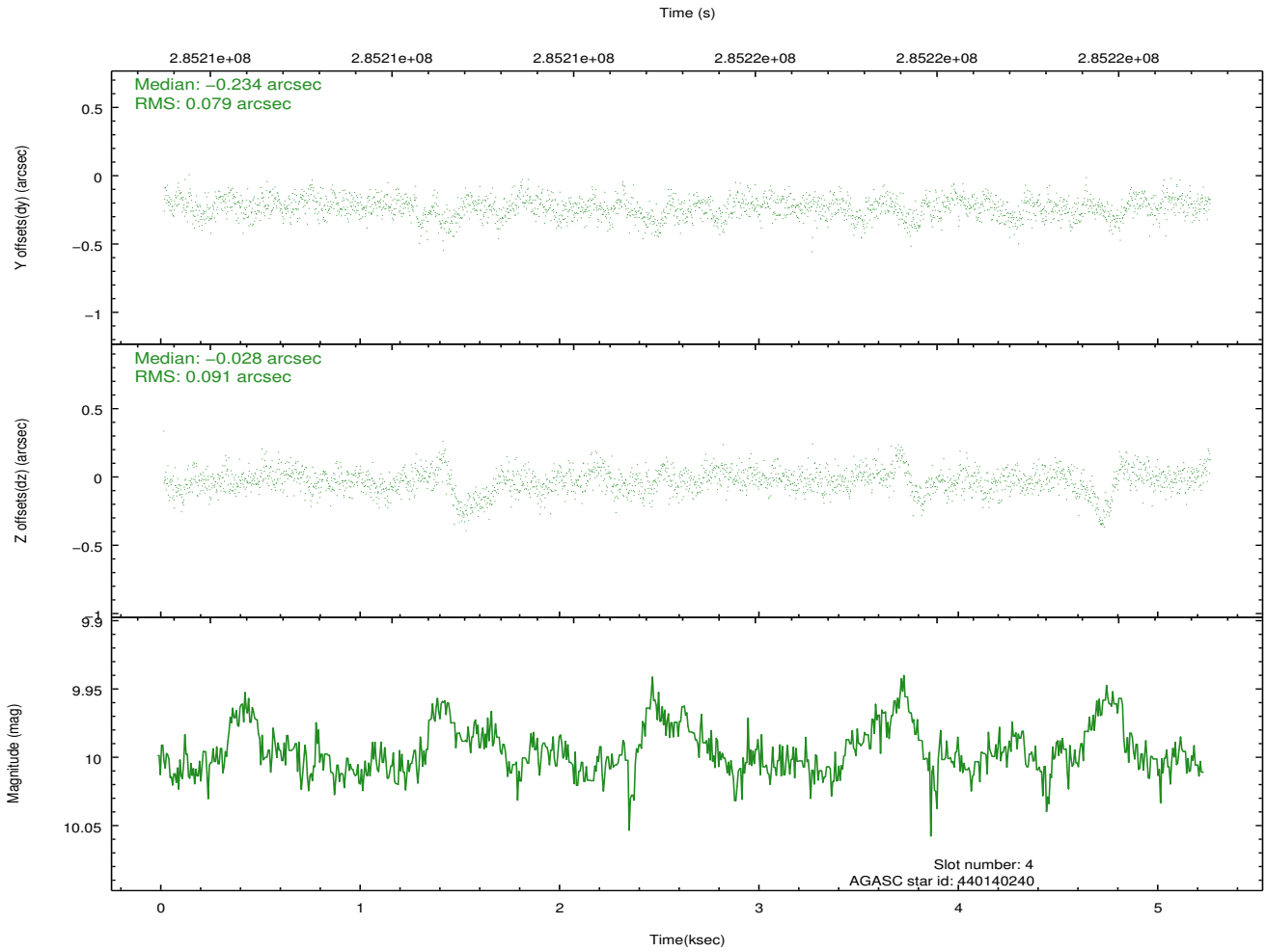
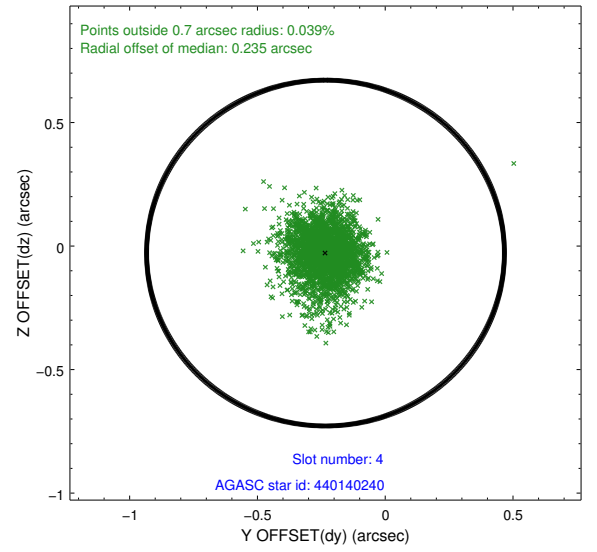
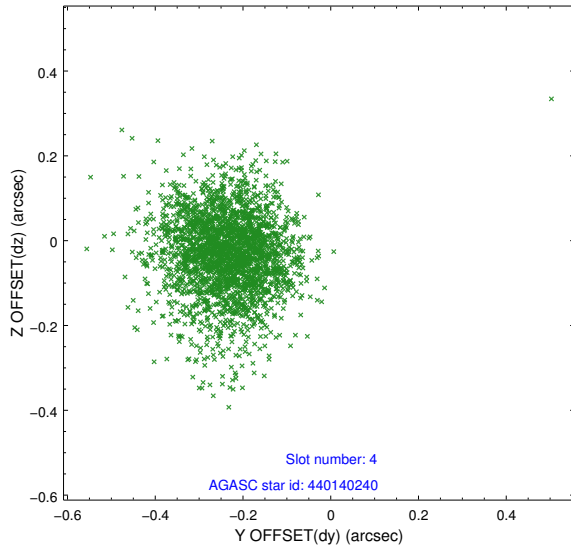
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.91	1280	-1.876	-2.545	0.015	0.022	0.000000	0.000000	-767.91	-2477.47
1	FID	HRC-I-3	7.16	1280	2.201	0.258	0.008	0.014	0.000000	0.000000	-1196.44	-174.02
2	FID	HRC-I-4	6.97	1281	-0.214	2.185	0.012	0.017	0.000000	0.000000	1272.08	-167.81
3	GUIDE	438455912	9.25	2559	0.181	-0.080	0.119	0.187	78.251946	45.690923	2084.86	-1522.08
4	GUIDE	440140240	10.00	2558	-0.234	-0.028	0.125	0.214	78.889349	46.726437	-1960.62	-1746.81
5	GUIDE	440163960	8.88	2560	-0.120	-0.110	0.087	0.141	79.298370	45.827072	476.27	613.75
6	GUIDE	438460832	8.98	2559	0.052	0.036	0.103	0.161	78.414614	45.554782	2345.24	-938.25
7	GUIDE	438441368	10.01	2553	0.123	0.186	0.143	0.244	78.646413	46.420494	-706.29	-1795.50

## 2.4 Star Slots

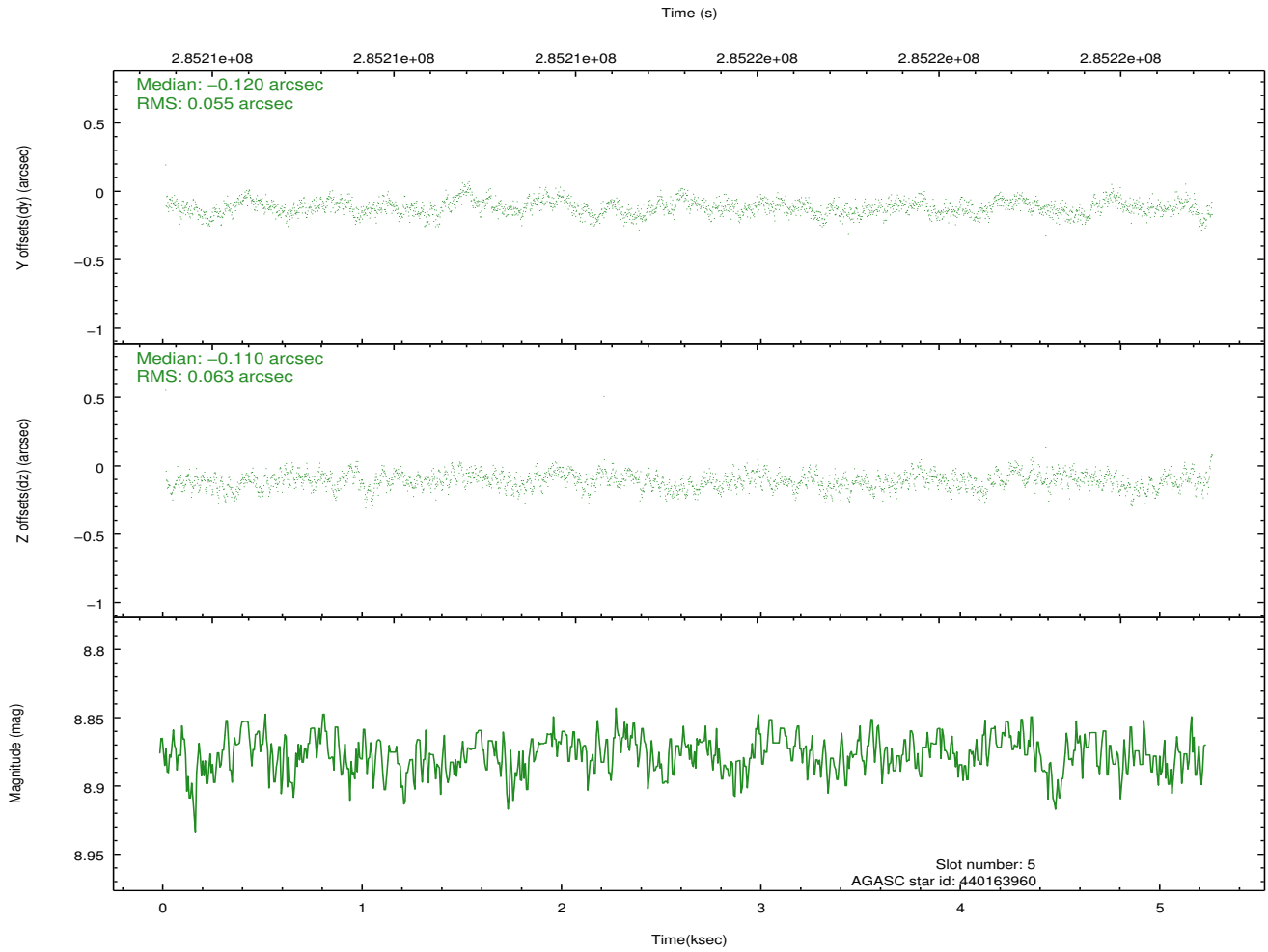
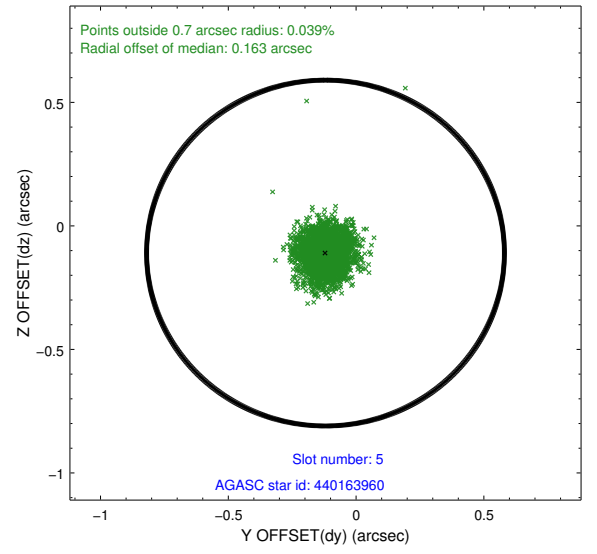
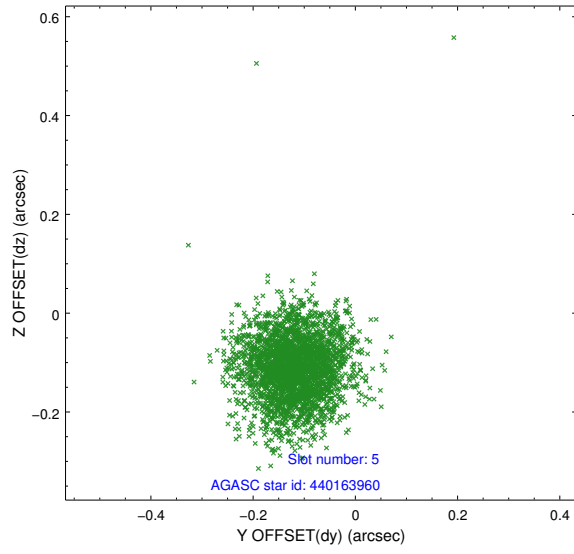
### 2.4.1 Slot 3



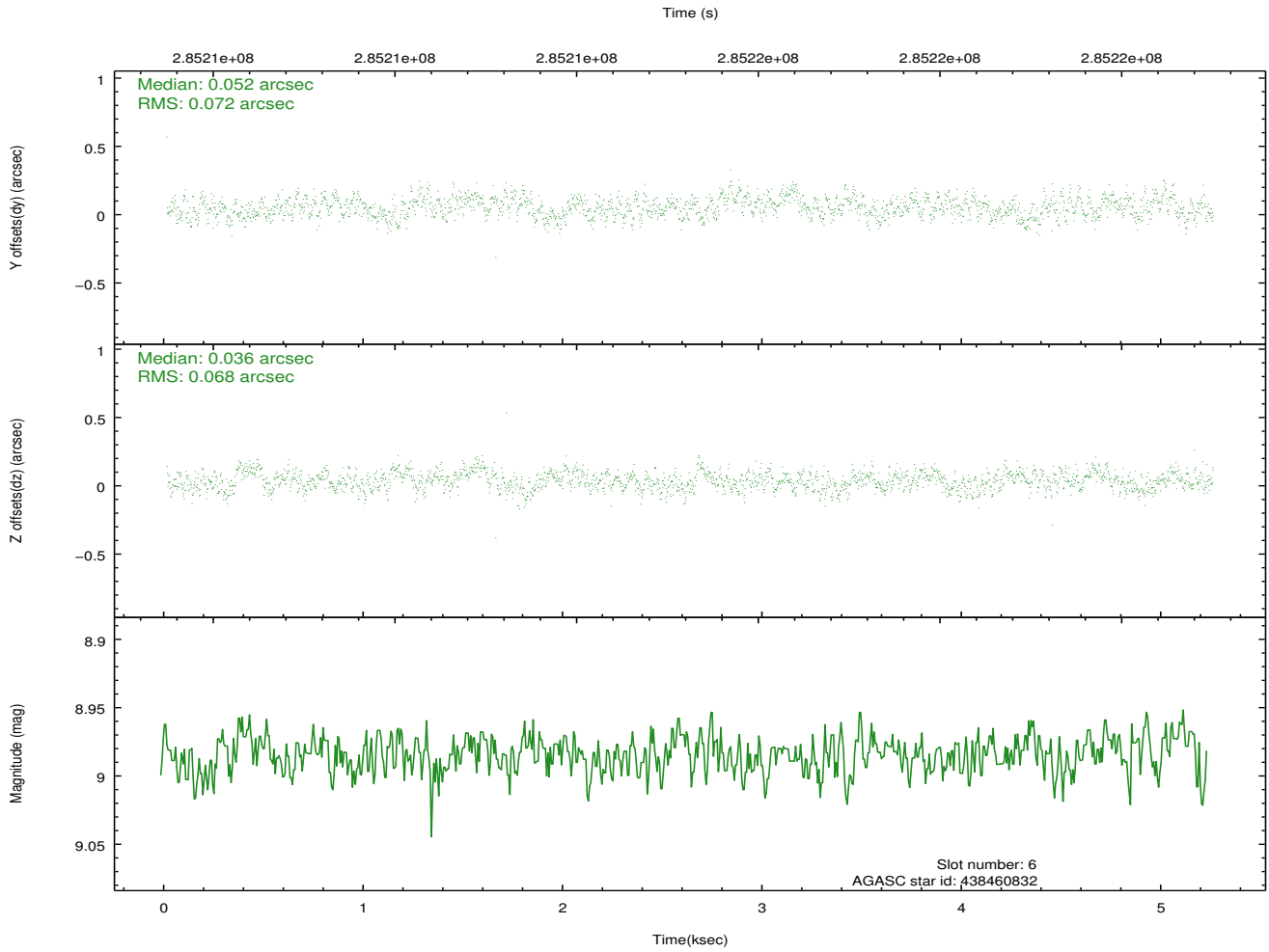
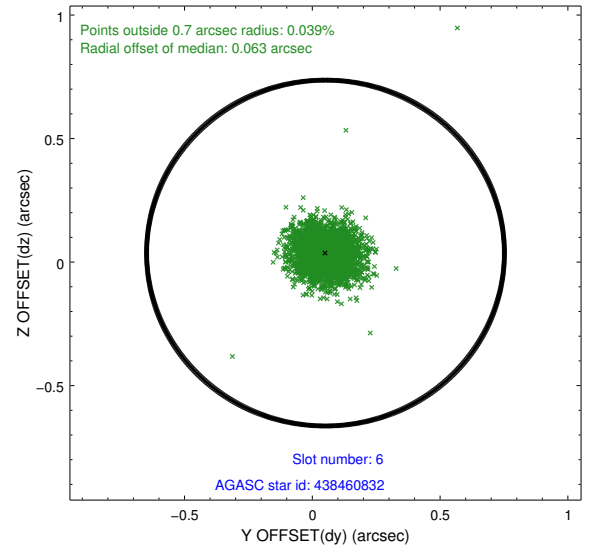
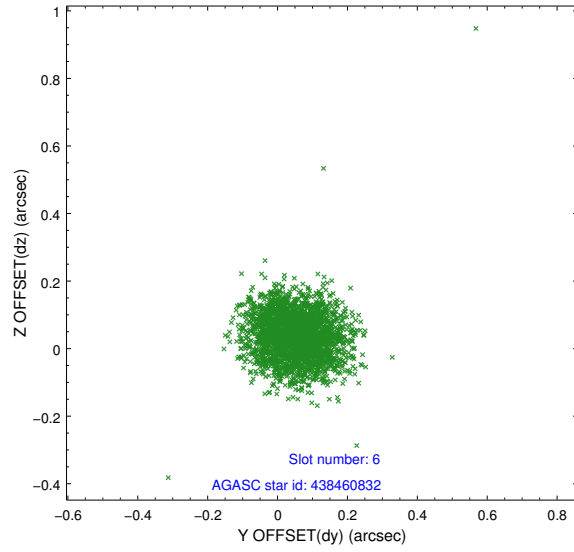
## 2.4.2 Slot 4



### 2.4.3 Slot 5

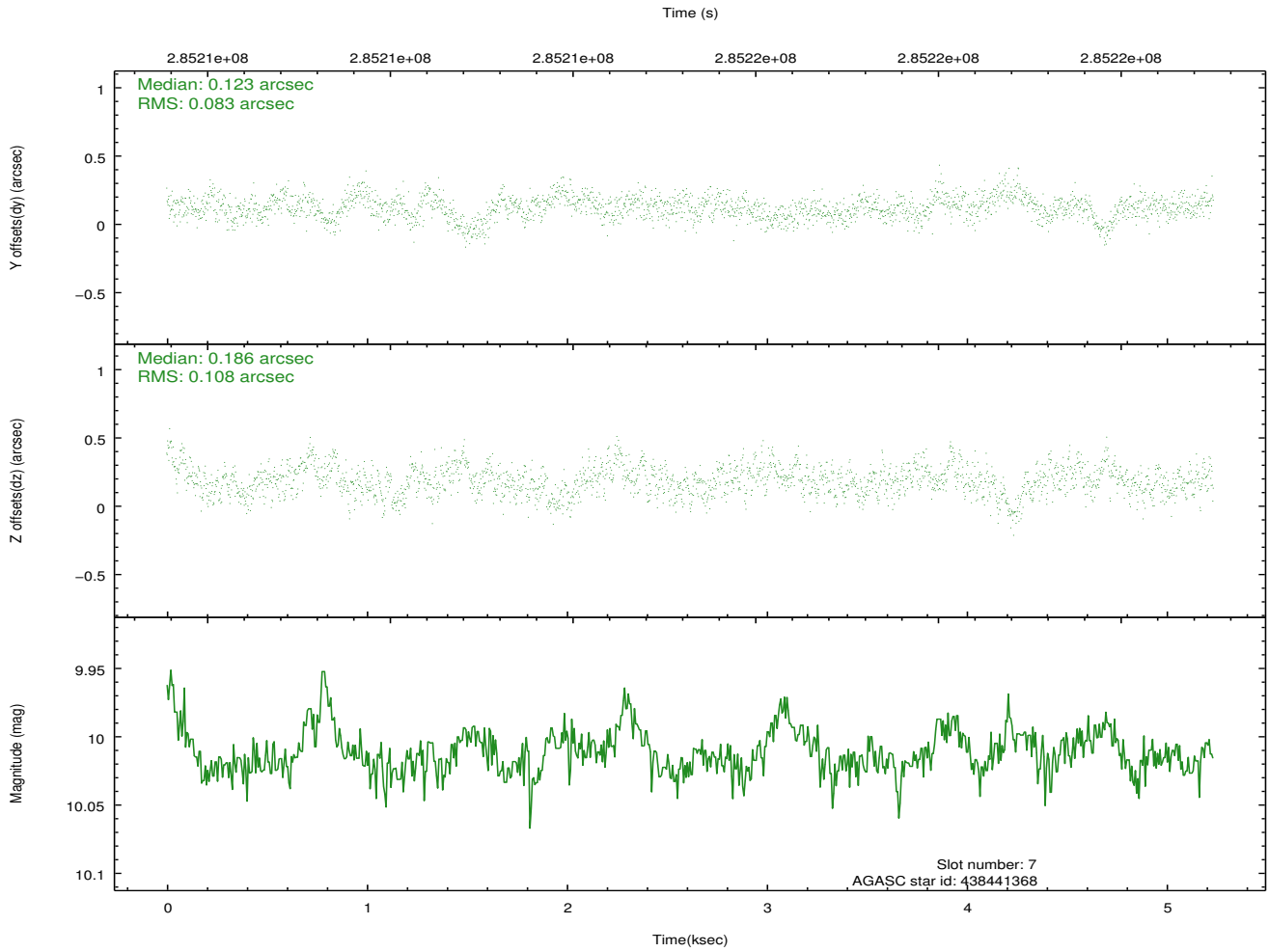
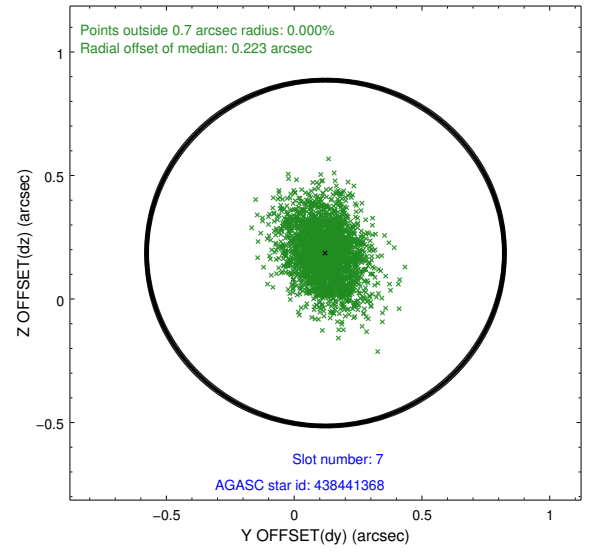
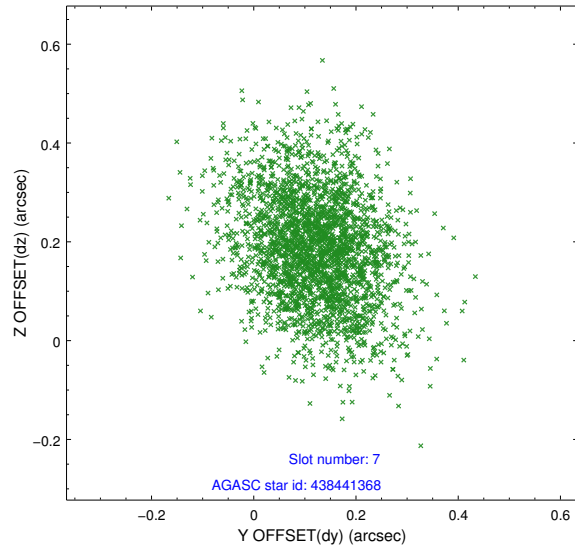


## 2.4.4 Slot 6



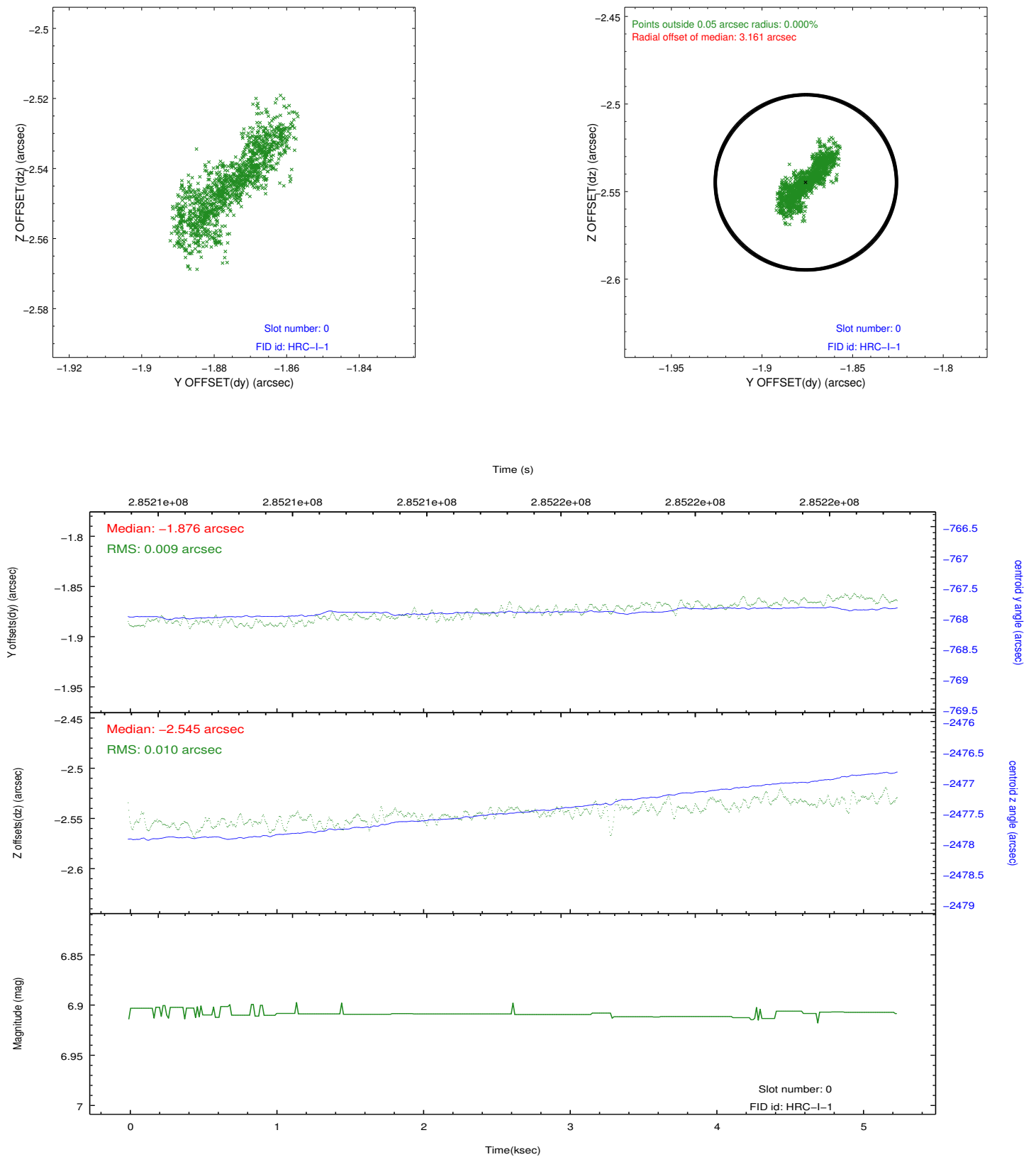


## 2.4.5 Slot 7

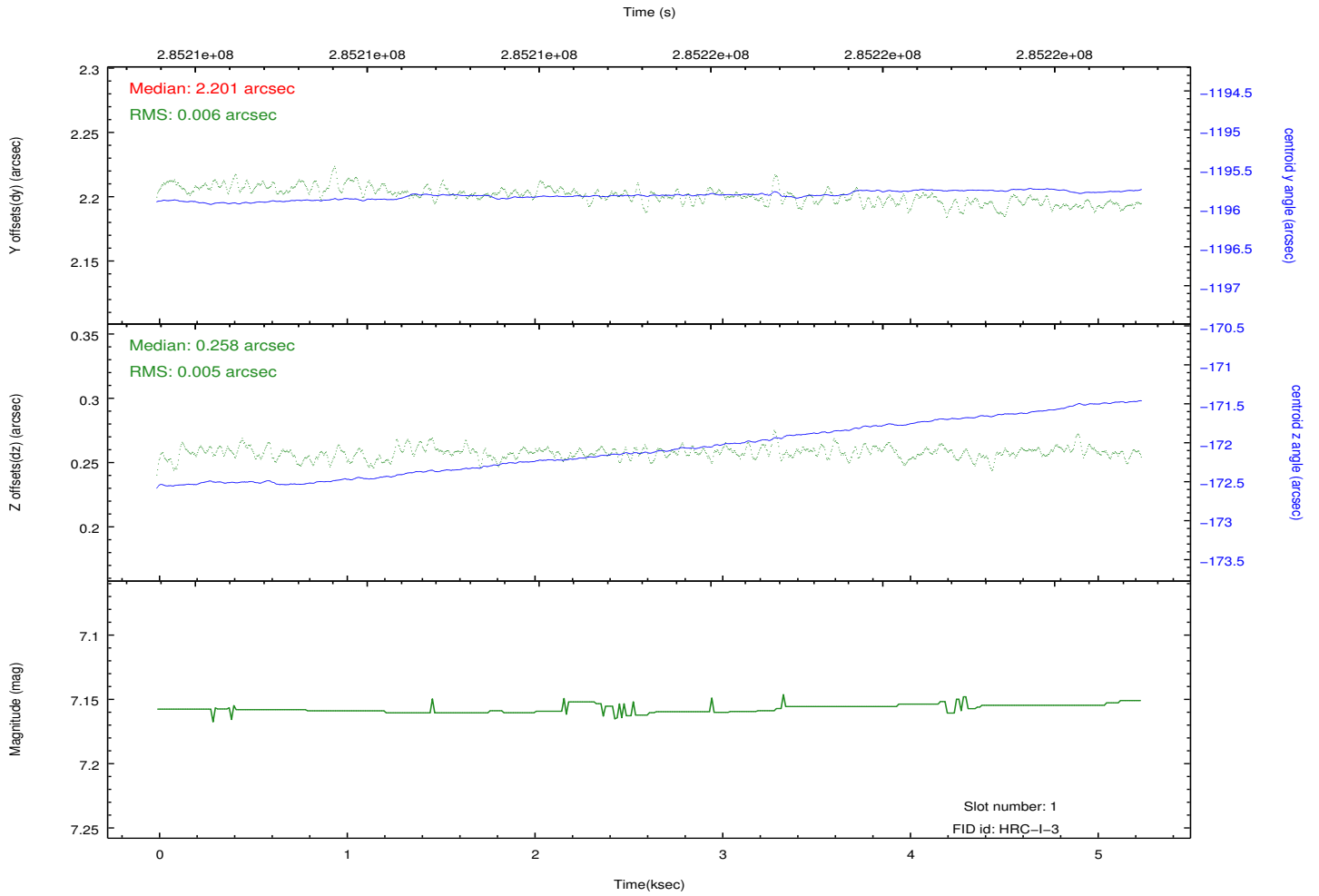
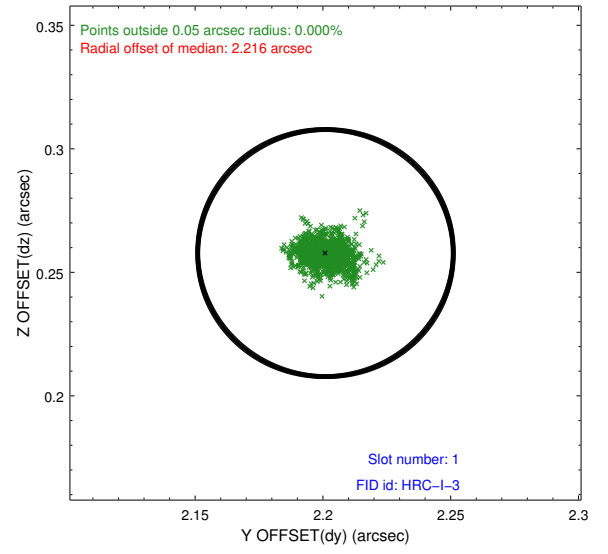
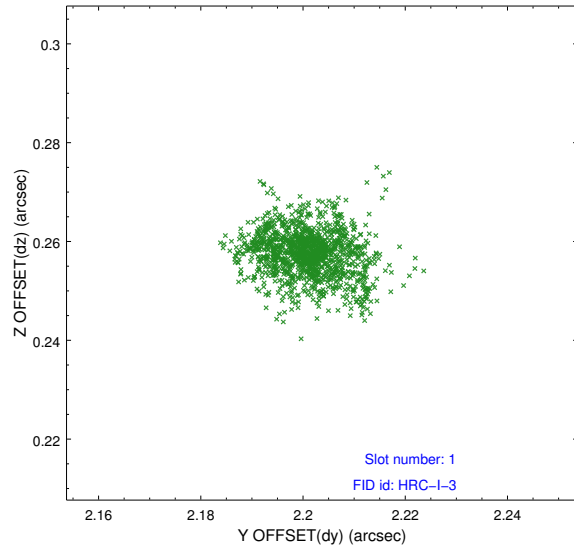


## 2.5 FID Slots

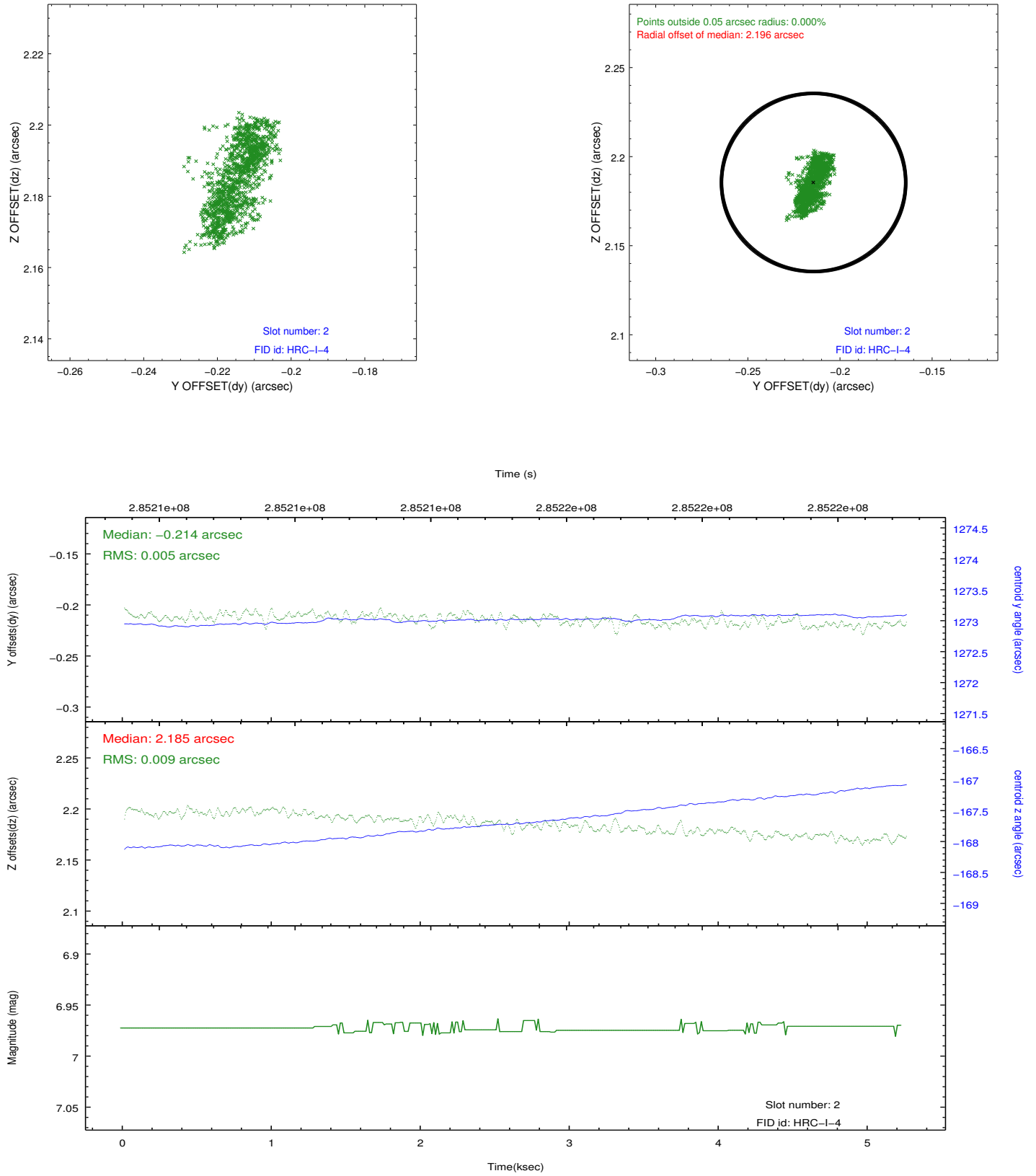
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.24723149

## A.2 Comments

This observation has a `sim_z_offset` of -56.99 [mm], and the fid radial offsets of 3.161 arcsec (slot 0), 2.216 arcsec (slot 1), and 2.196 arcsec (slot 2) are ok for Aspect.