

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8344 - L2 Version 5  
Chandra X-Ray Center

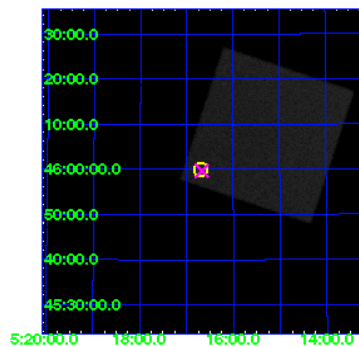
L2 Processing Date : Aug 11 2012

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# 1 Front

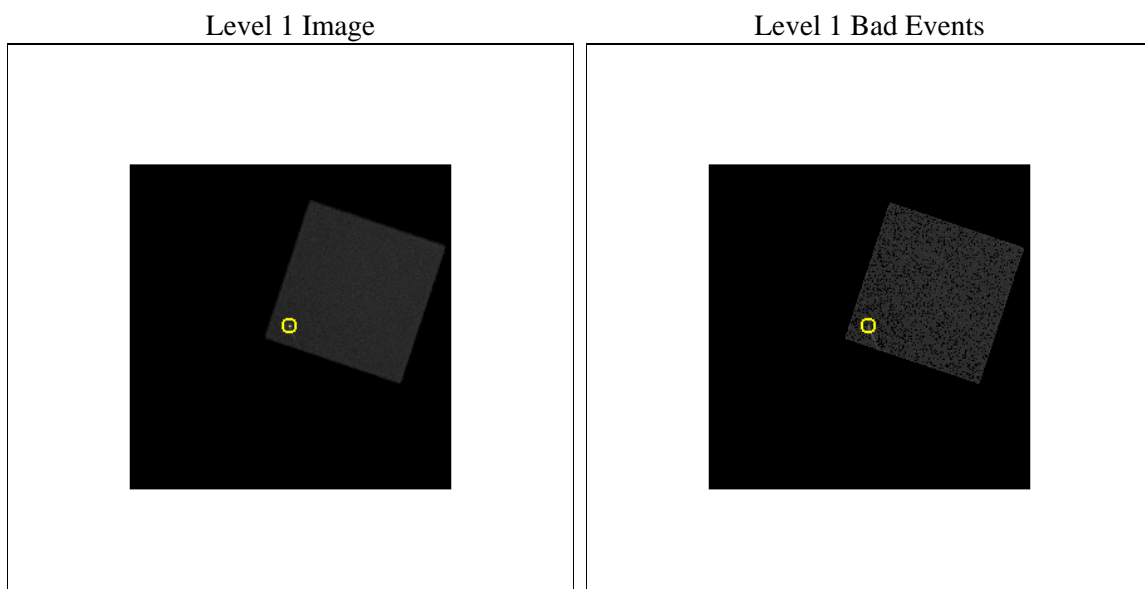
seq_num	290723	Sequence number
obs_id	8344	Observation id
title	Improving the De-Gap Corrections for the HRC-I	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Capella	Source name
ra_targ	79.1725	Observer's specified target RA [deg]
dec_targ	45.998	Observer's specified target Dec [deg]
ra_nom	79.168102613917	Nominal RA [deg]
dec_nom	45.995289231145	Nominal Dec [deg]
roll_nom	243.45947201542	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5292.075250864	[s]
livetime	5236.2520785979	Ontime multiplied by DTCOR
l2events	378152	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	5292.075250864	[s]
caldbver	4.5.1.1	&#160	l1events	625803	Number of level 1 events
date	2012-08-11T15:57:03	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	625803
rejected events	114624
rejected %	18%

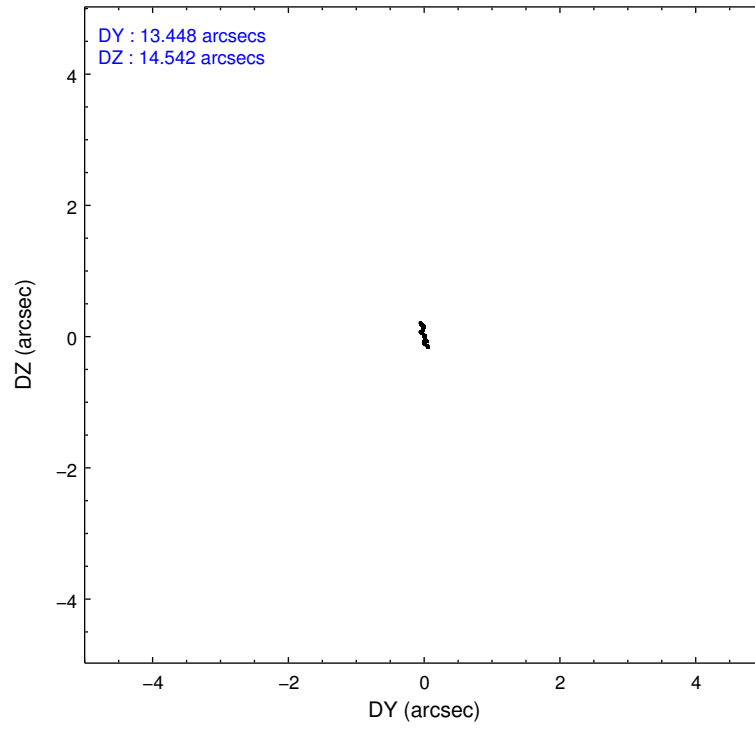
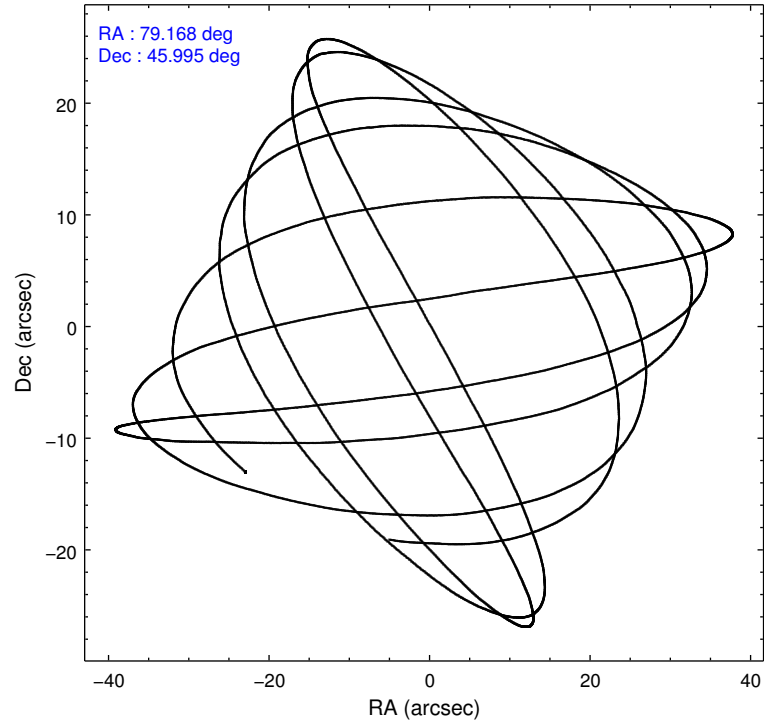


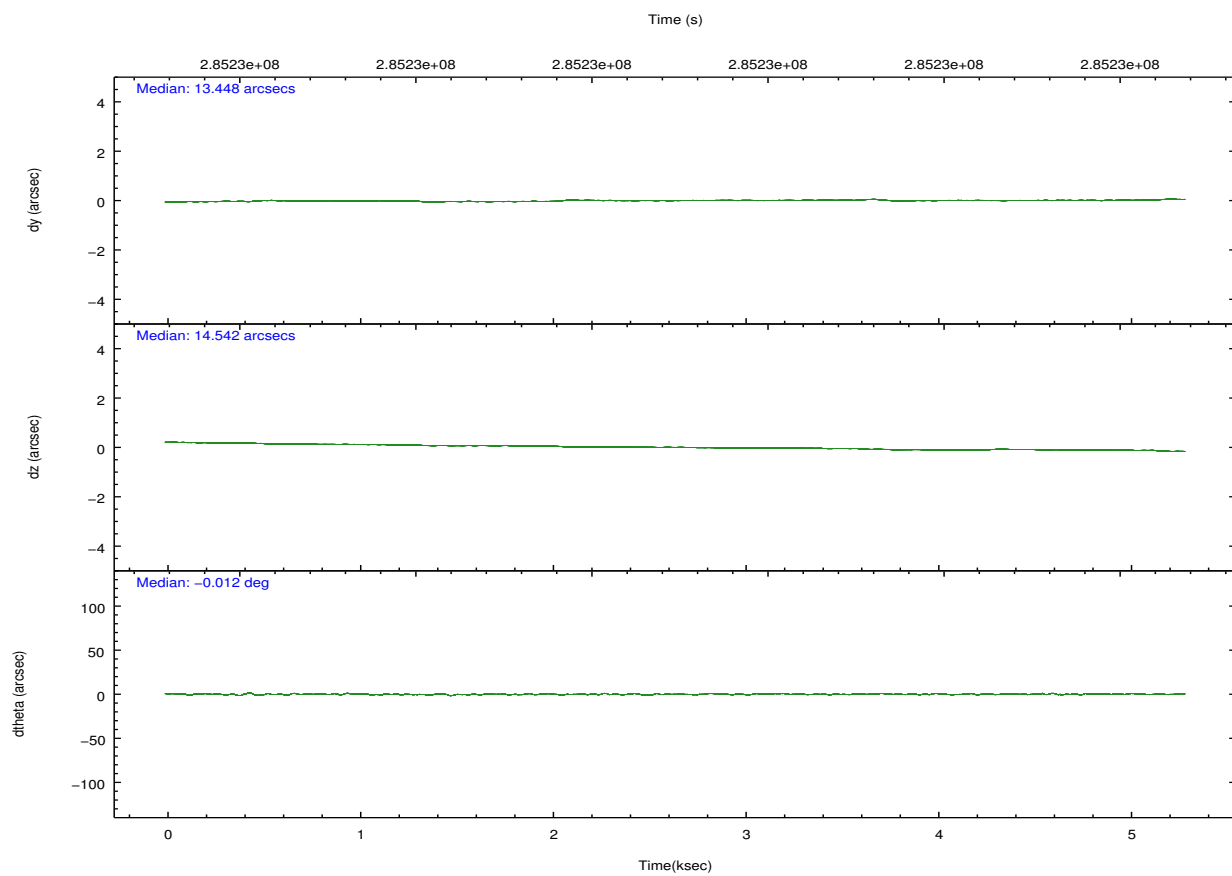
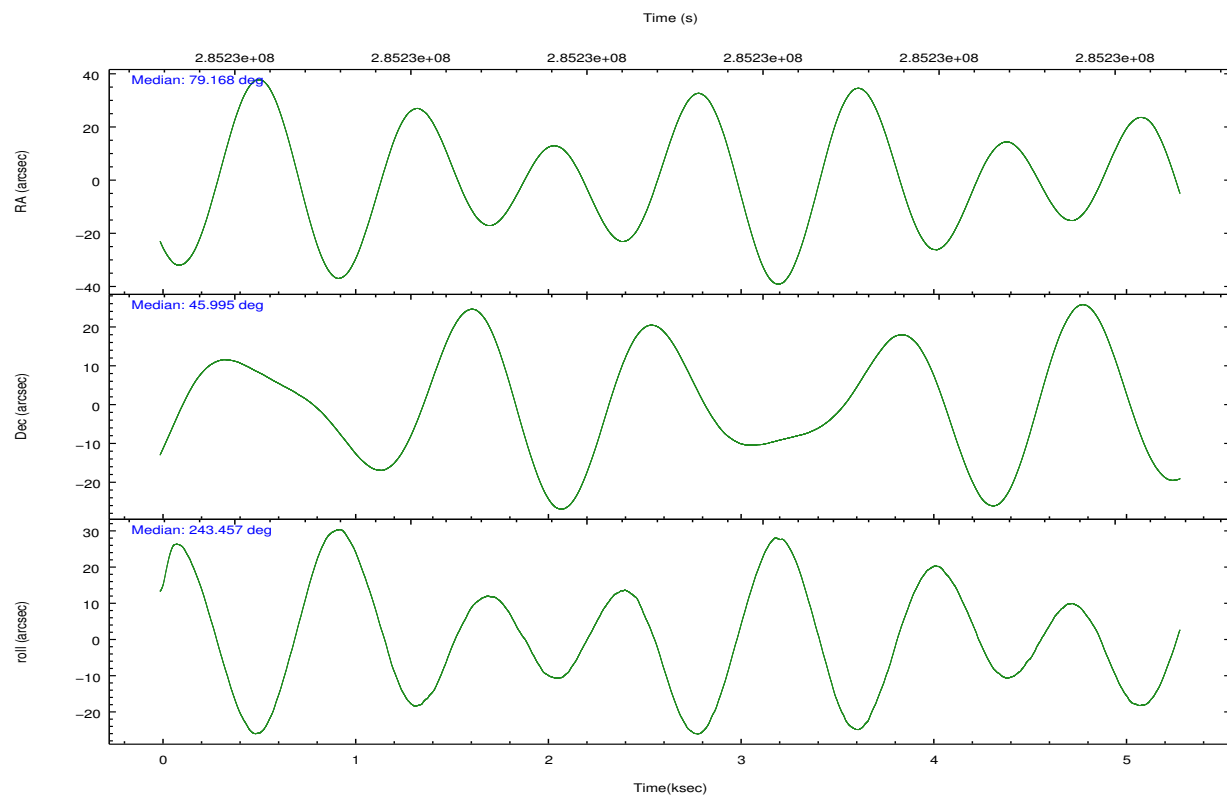
## 2.2 Compared Parameters

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	79.164699	79.16810261391677
[deg] Pointing Dec	46.022291	45.99528923114518
[deg] Pointing Roll	243.557409	243.459472015417
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	174.985494	174.9988593038776
[mm] SIM translation stage offset	-48	-48.013370412276
[s] Observation start time (MET)	285229004.184000	285228628.05095
Observation start date	2007-01-15T06:15:39	2007-01-15T06:10:28
[s] Observation end time (MET)	285234109.184000	285235351.53877
Observation end date	2007-01-15T07:40:44	2007-01-15T08:02:31

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

## 2.3 Aspect



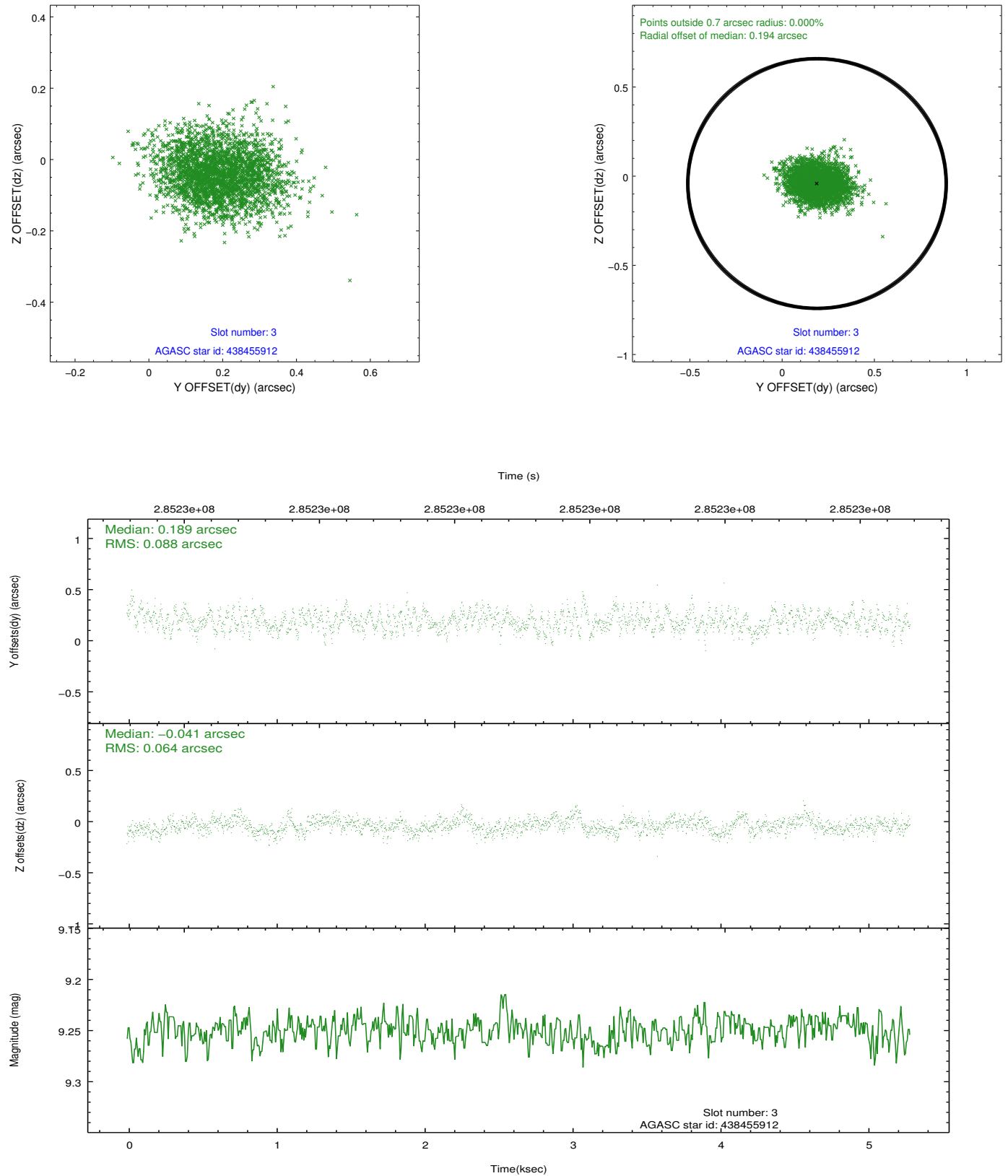


### Slot Statistics

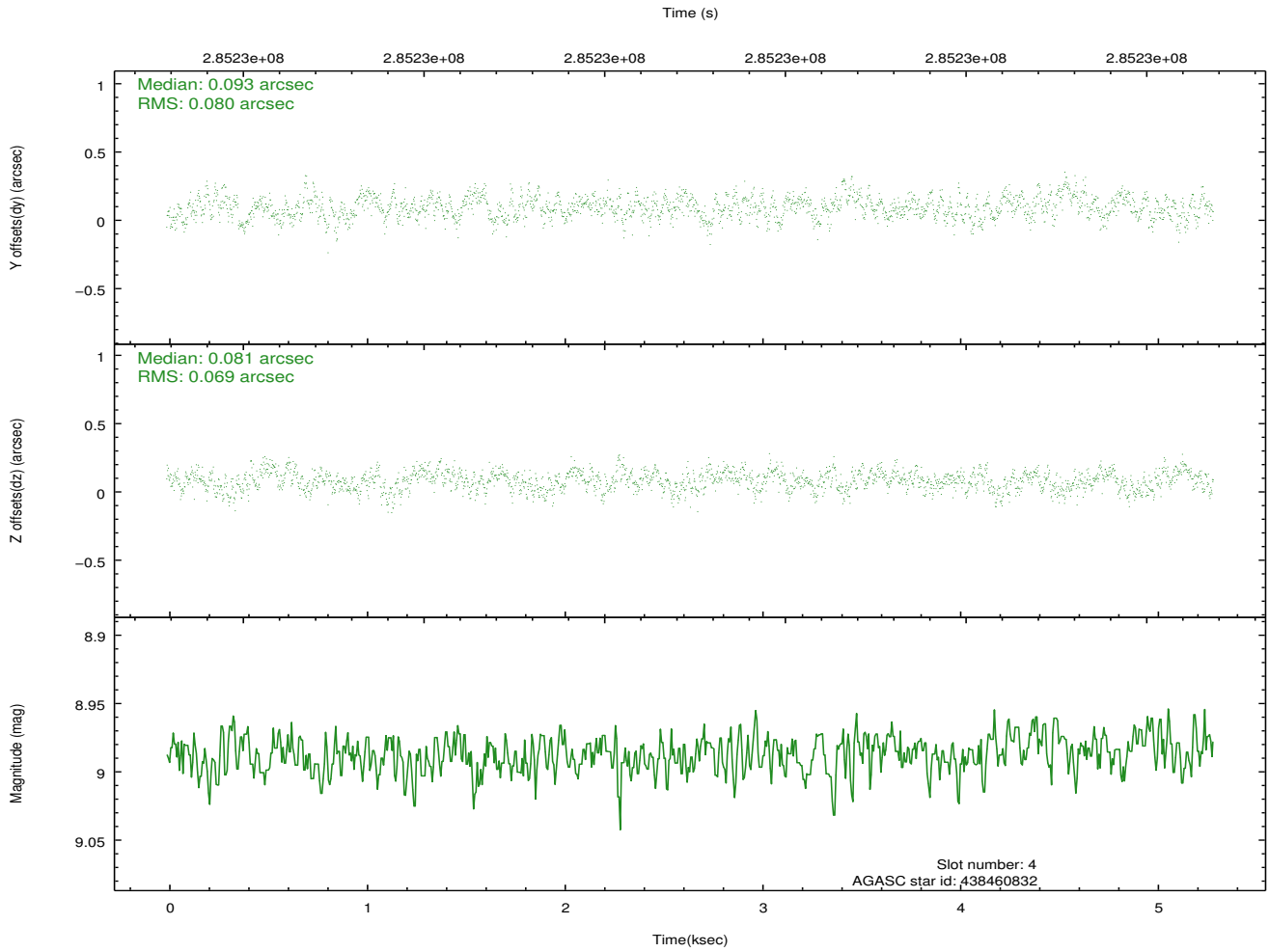
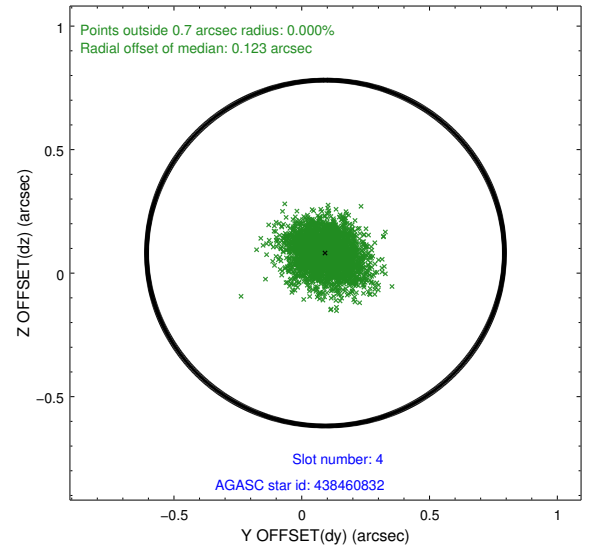
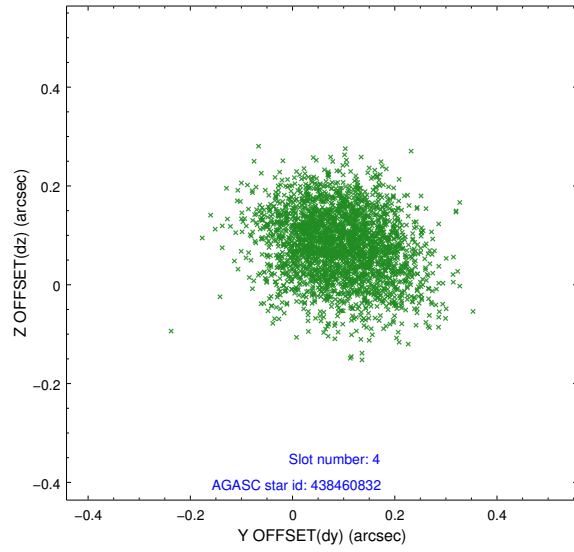
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.90	1292	0.053	-1.205	0.006	0.011	0.000000	0.000000	-768.41	-2290.24
1	FID	HRC-I-2	6.99	1290	-0.318	0.597	0.005	0.009	0.000000	0.000000	844.28	-2292.22
2	FID	HRC-I-3	7.14	1292	0.382	0.504	0.005	0.011	0.000000	0.000000	-1195.73	13.00
3	GUIDE	438455912	9.25	2581	0.189	-0.041	0.114	0.186	78.251946	45.690923	2079.75	-1529.66
4	GUIDE	438460832	8.99	2576	0.093	0.081	0.113	0.181	78.414614	45.554782	2343.11	-947.72
5	GUIDE	440140240	10.00	2582	-0.206	0.107	0.128	0.215	78.889349	46.726437	-1966.48	-1738.02
6	GUIDE	440163960	8.88	2583	-0.062	-0.034	0.088	0.145	79.298370	45.827072	479.70	612.56
7	GUIDE	440163560	9.55	2576	-0.013	-0.103	0.143	0.233	79.359509	46.135242	-579.86	254.02

## 2.4 Star Slots

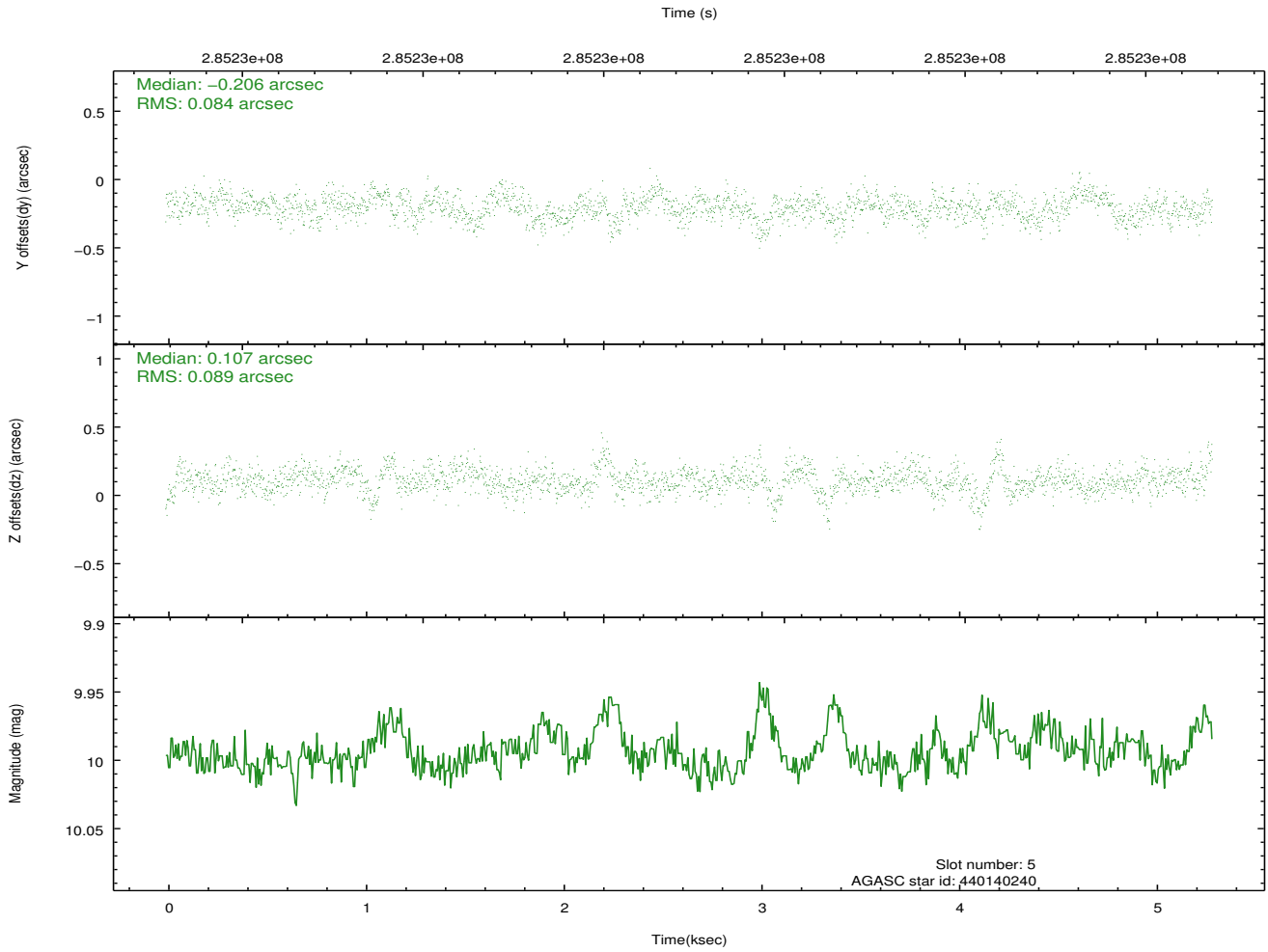
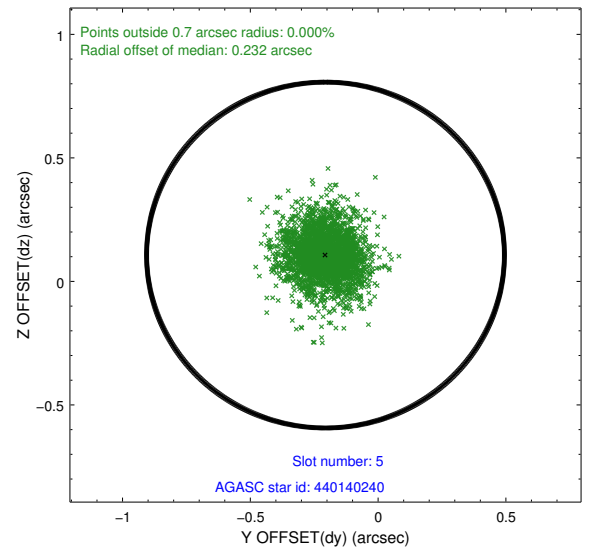
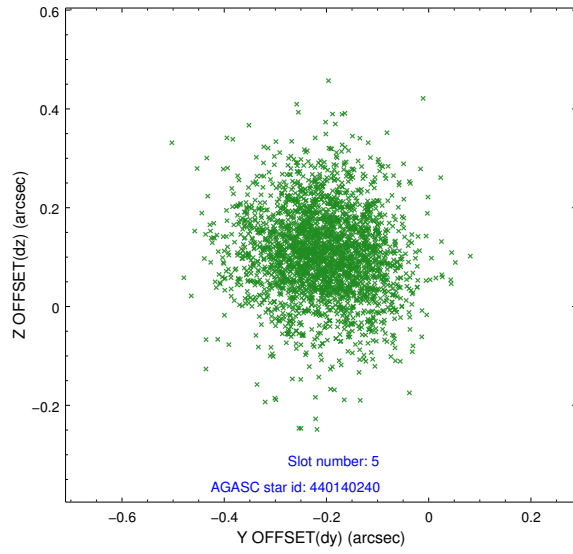
### 2.4.1 Slot 3



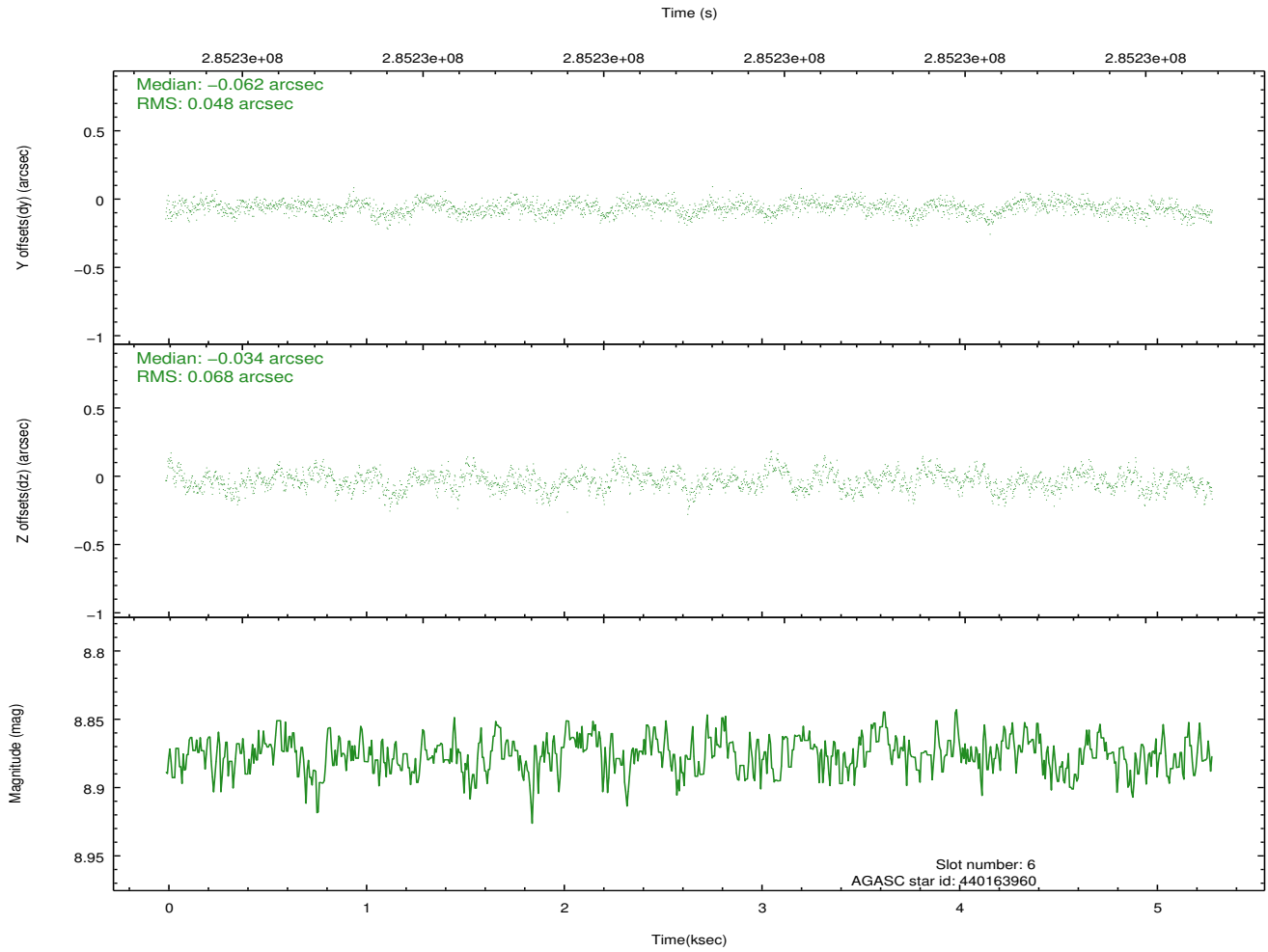
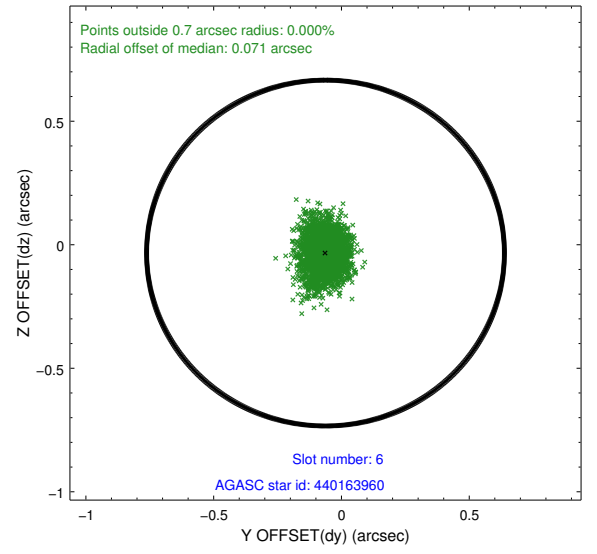
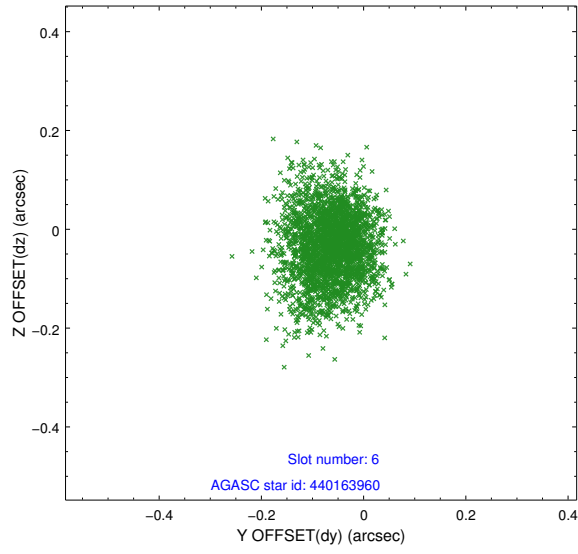
## 2.4.2 Slot 4



### 2.4.3 Slot 5

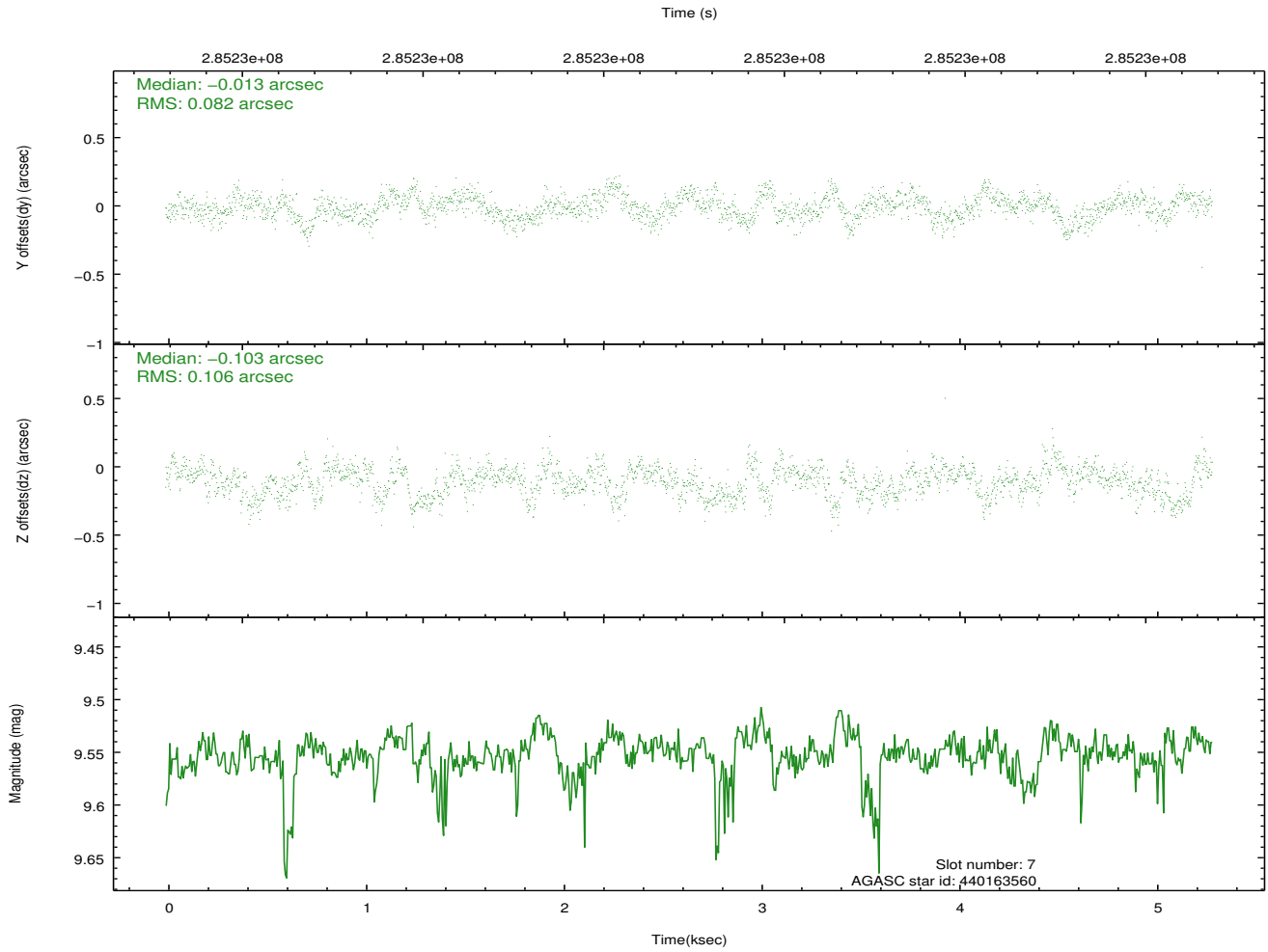
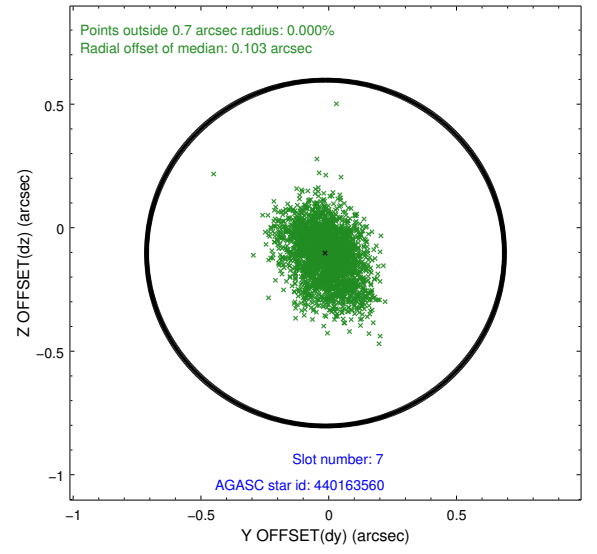
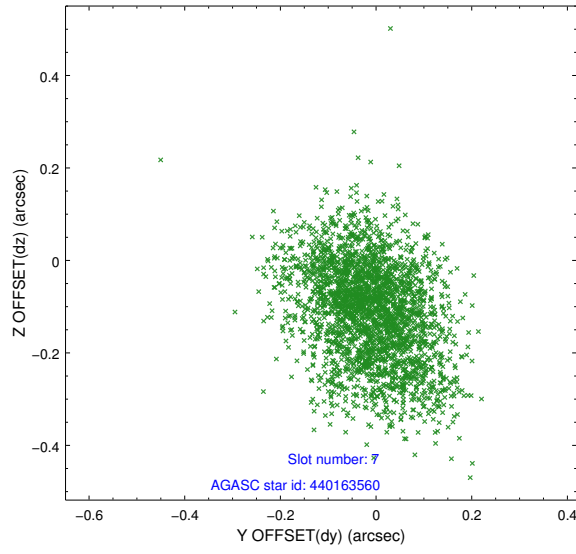


## 2.4.4 Slot 6



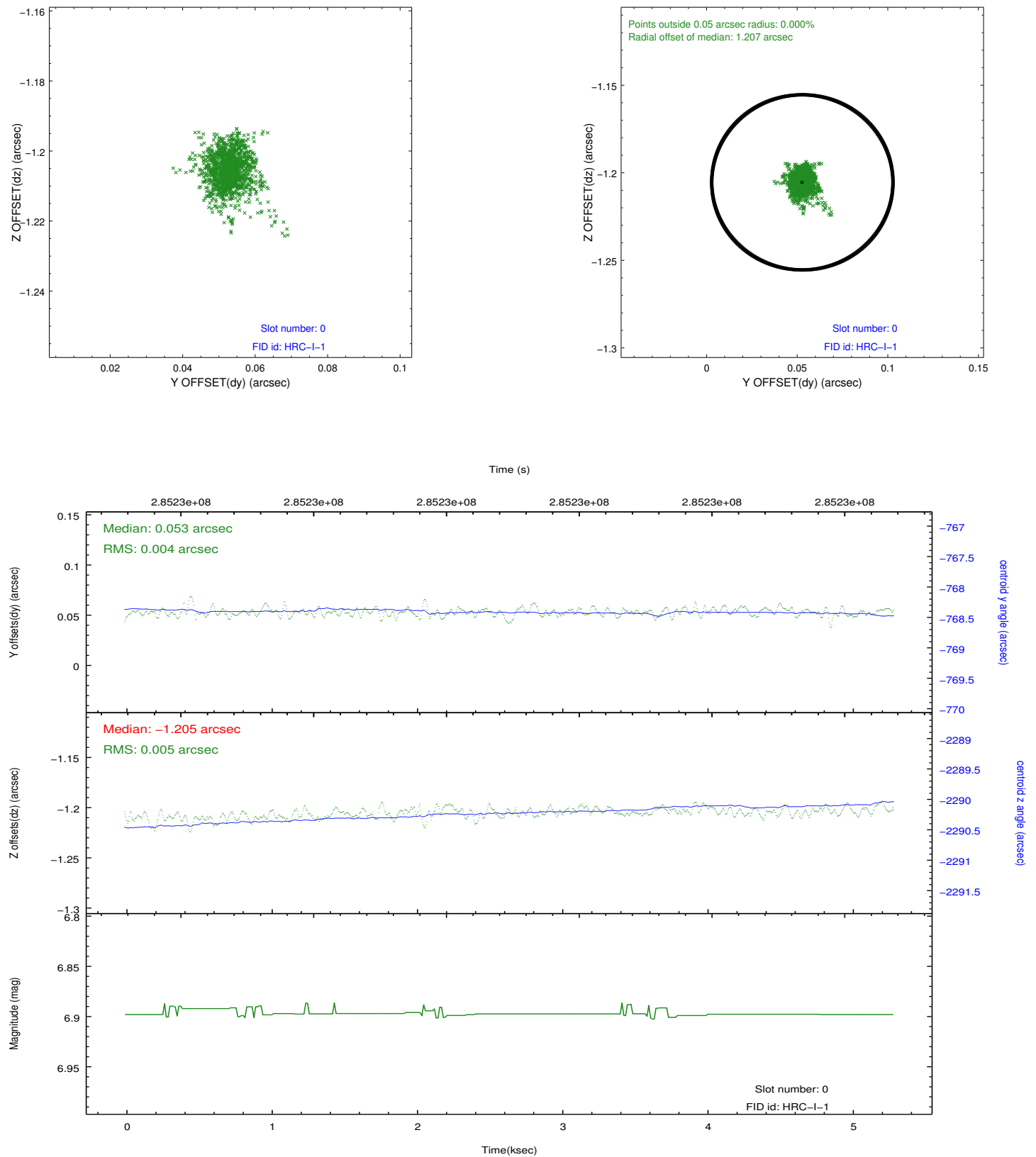


## 2.4.5 Slot 7

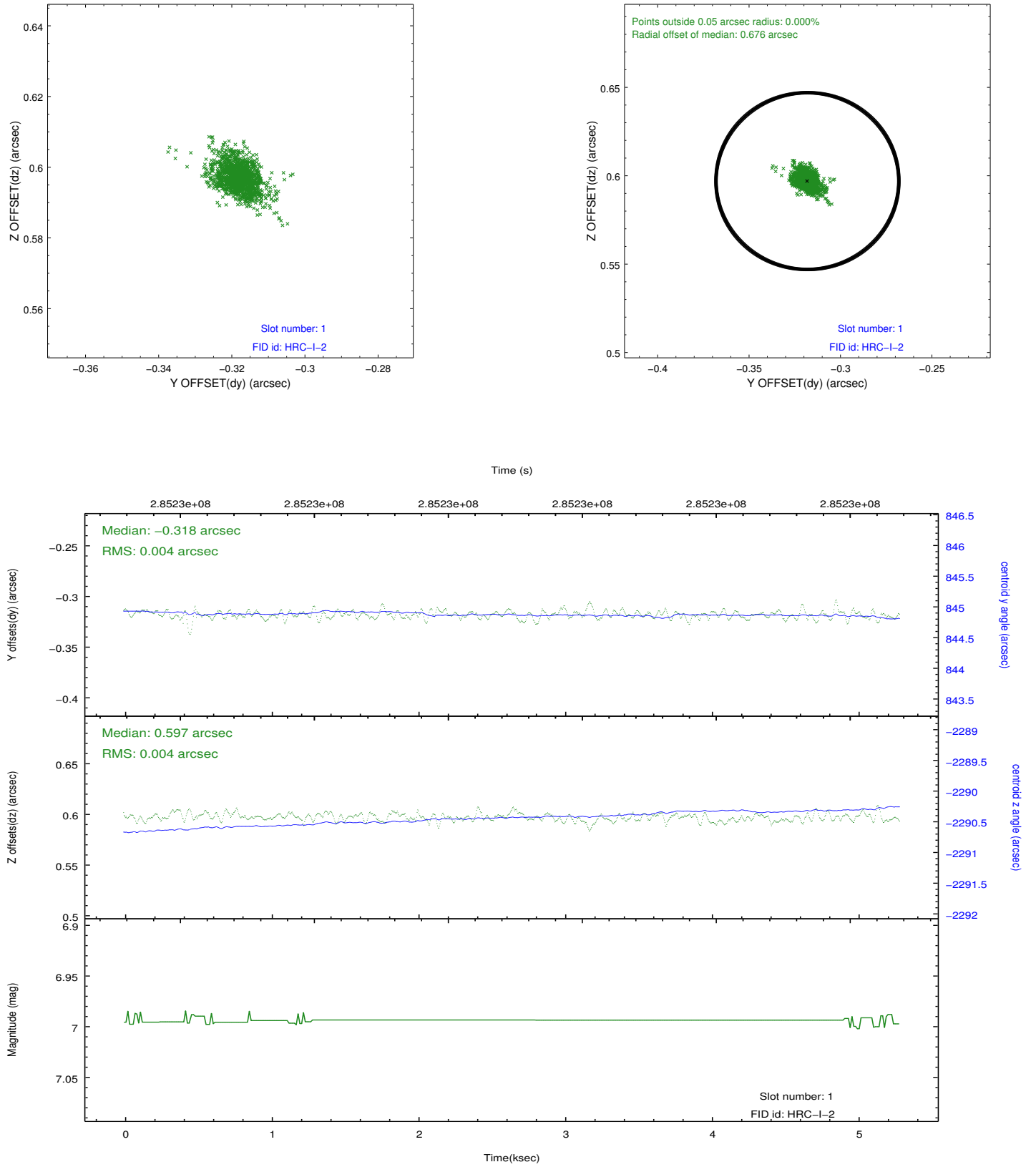


## 2.5 FID Slots

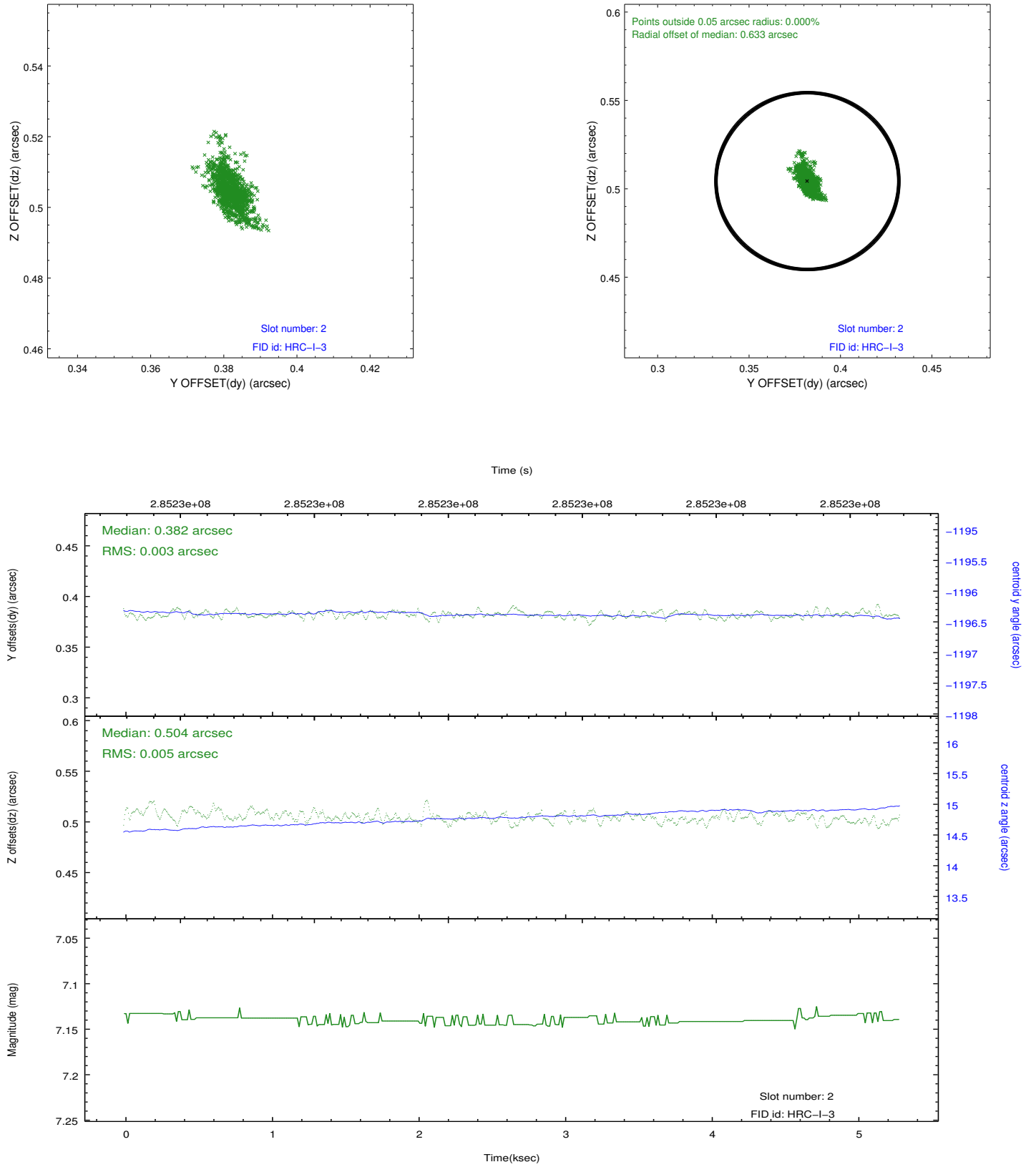
### 2.5.1 Slot 0



## 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	5.29207525

## A.2 Comments

This observation has a `sim_z_offset` of -48.01 [mm], and the fid radial offsets of 1.207 arcsec (slot 0), 0.676 arcsec (slot 1), and 0.633 arcsec (slot 2) are ok for Aspect.