

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 14550 - L2 Version 2  
Chandra X-Ray Center

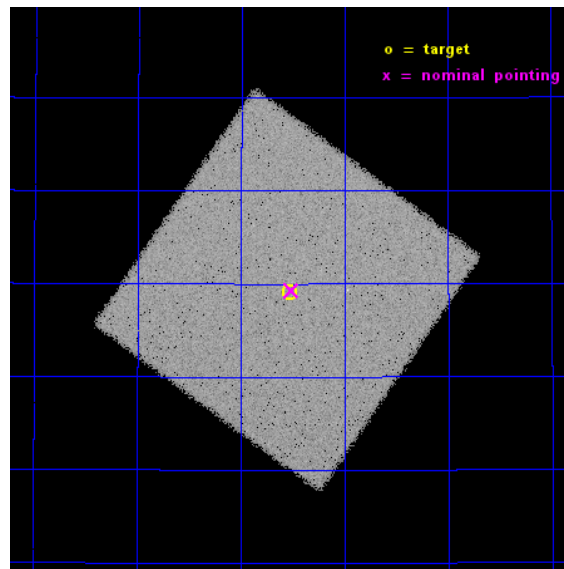
L2 Processing Date : Dec 3 2014

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# 1 Front

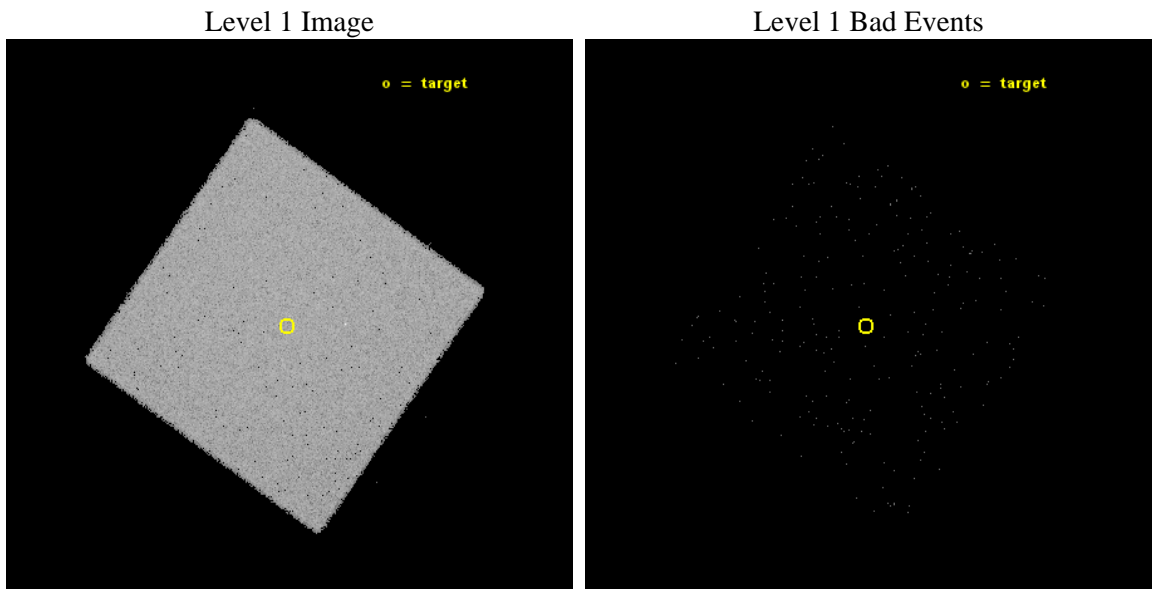
seq_num	200851	Sequence number
obs_id	14550	Observation id
title	Search for X-ray emission from a sample of luminous O-type subdwarfs	&#160
observer	Mr. Nicola La Palombara	Principal investigator
object	BD+39 3226	Source name
ra_targ	266.632917	Observer's specified target RA [deg]
dec_targ	39.319194	Observer's specified target Dec [deg]
ra_nom	266.62833208905	Nominal RA [deg]
dec_nom	39.321673835022	Nominal Dec [deg]
roll_nom	170.46986792815	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4178.9252266884	[s]
livetime	4148.6548082715	Ontime multiplied by DTCOR
l2events	228862	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	4000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	4178.9252266884	[s]
caldbver	4.6.4	&#160	l1events	371102	Number of level 1 events
date	2014-12-03T16:52:25	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

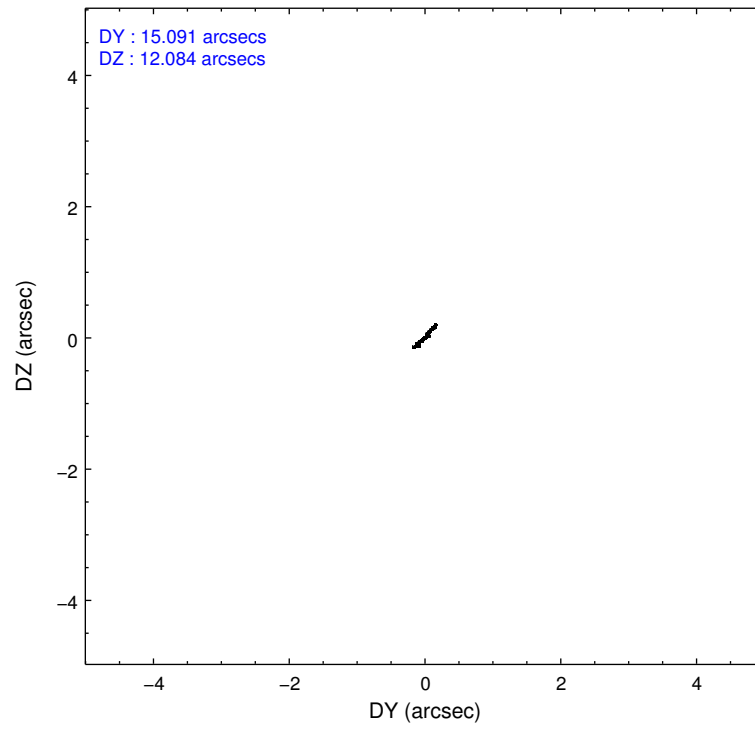
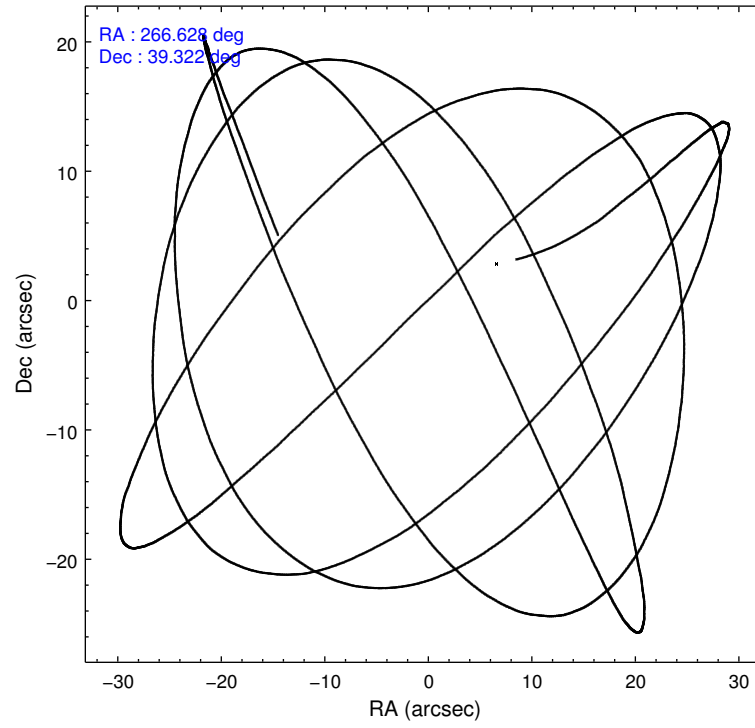
#### Level 1 Events

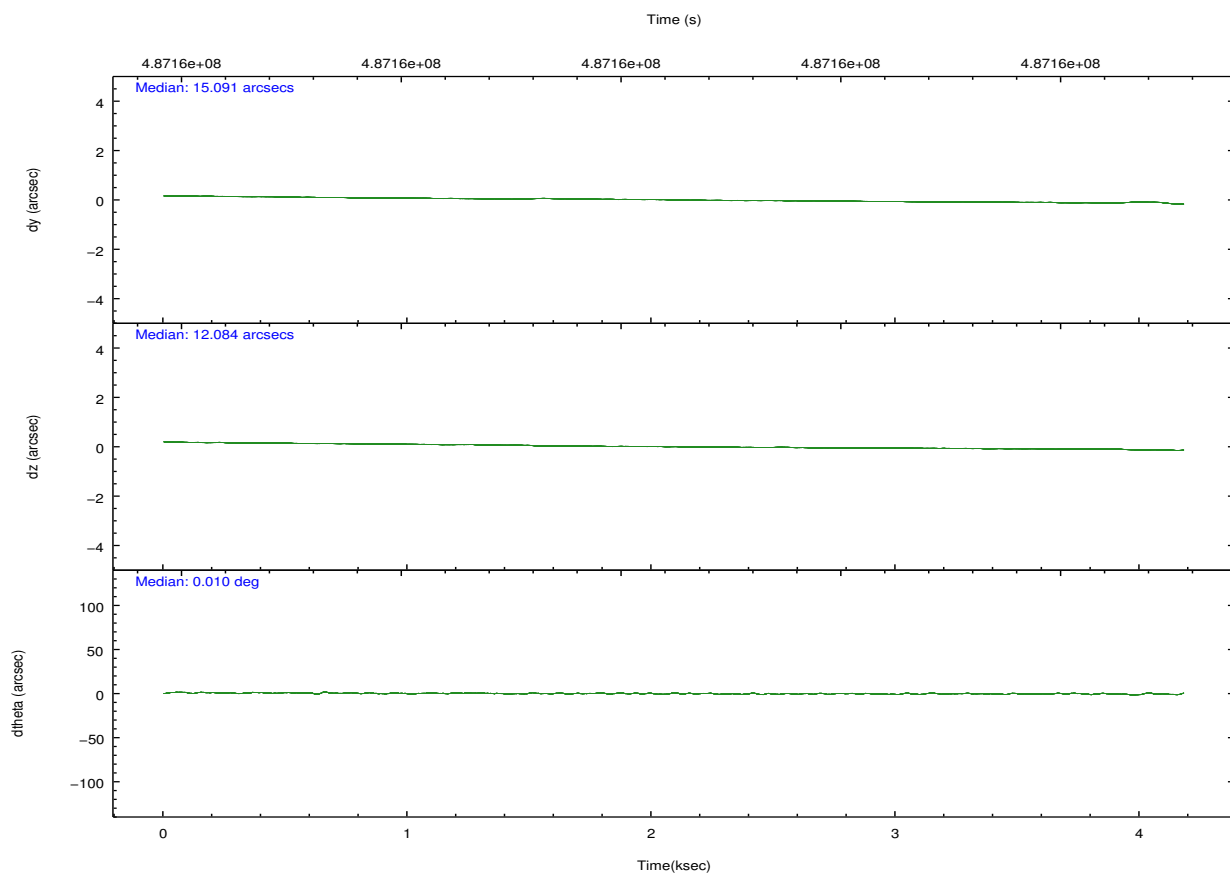
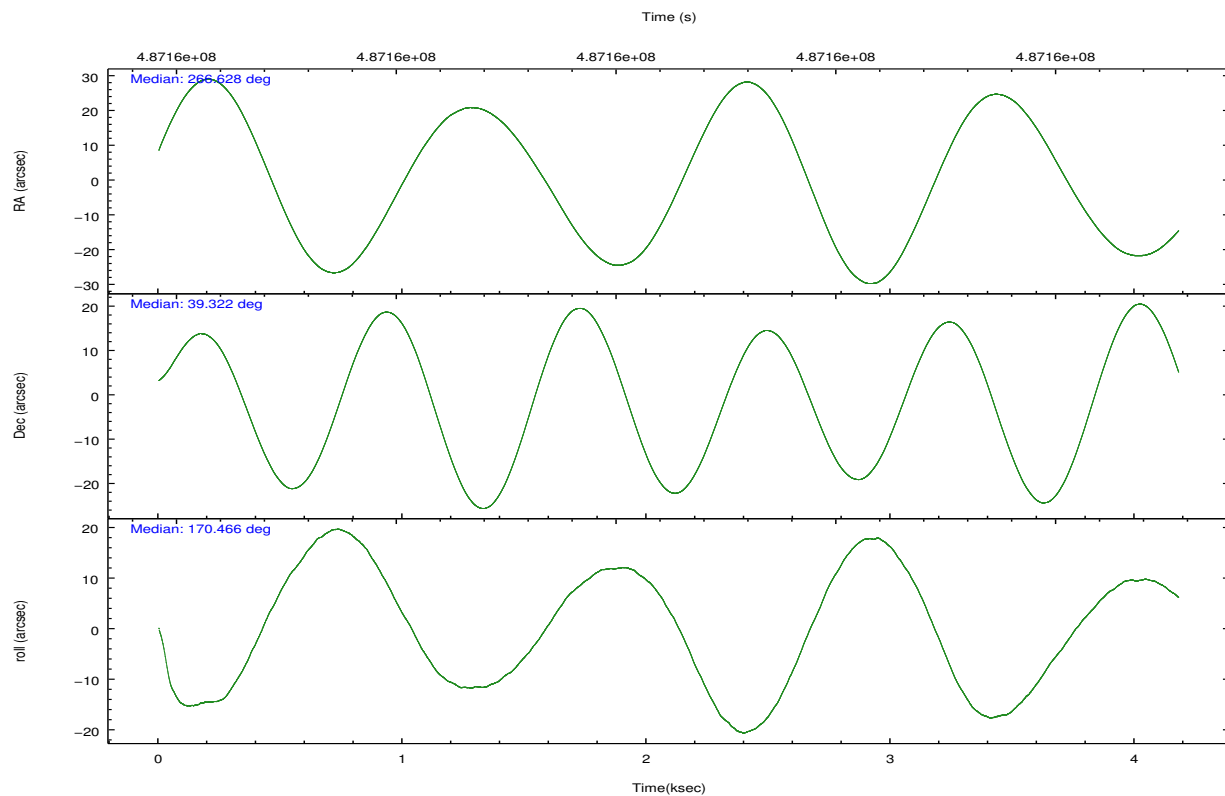
	<b>segment 0</b>
level 1 events	371102
rejected events	59931
rejected %	16%

## 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	266.660885	266.6283320890496			
[deg] Pointing Dec	39.331471	39.32167383502184			
[deg] Pointing Roll	170.544704	170.4698679281468			
[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)	487158328.184000	487157414.11122			
Observation start date	2013-06-09T09:44:21	2013-06-09T09:30:14			
[s] Observation end time (MET)	487162328.184000	487163400.11154			
Observation end date	2013-06-09T10:51:01	2013-06-09T11:10:00			

## 2.3 Aspect



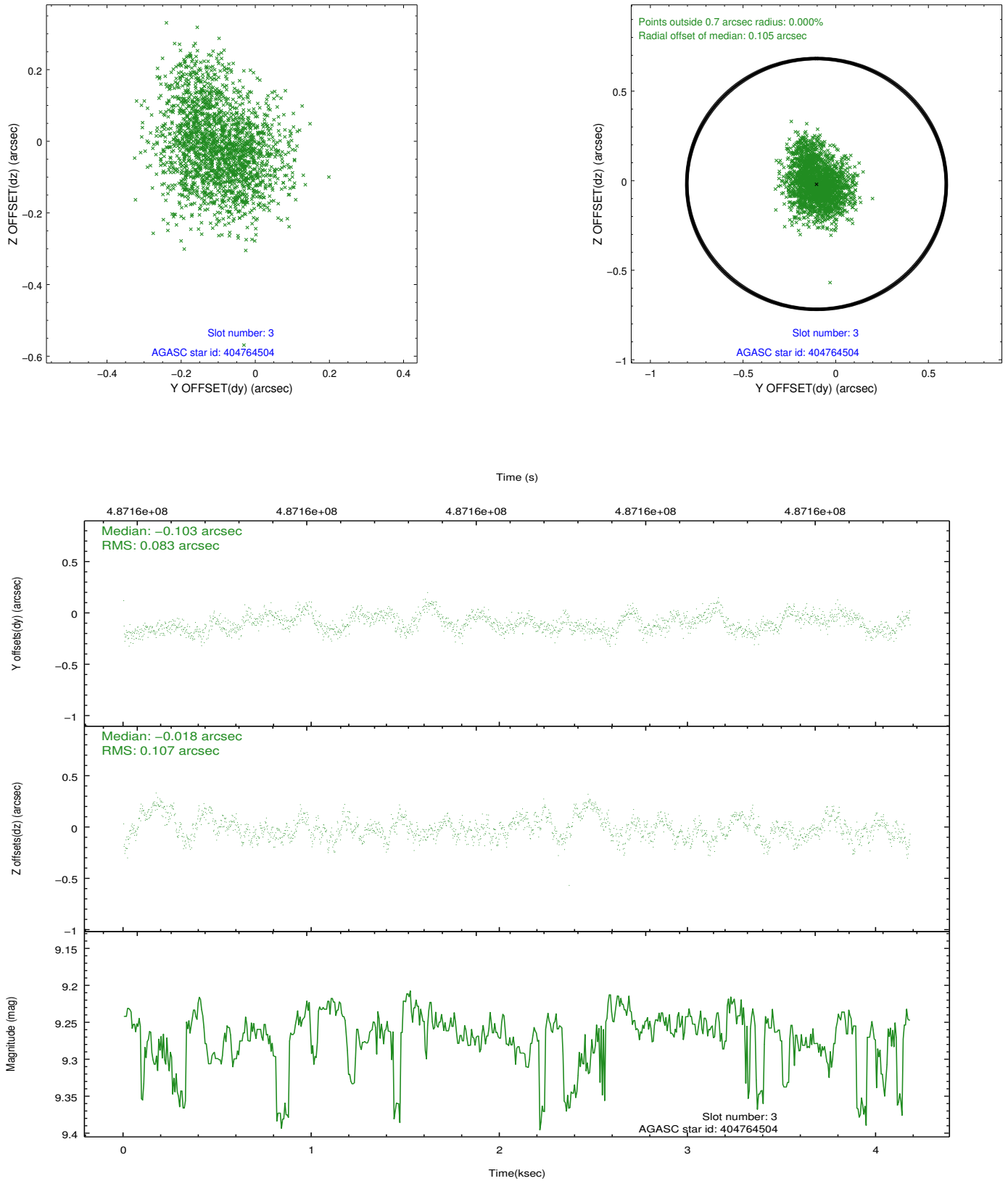


### Slot Statistics

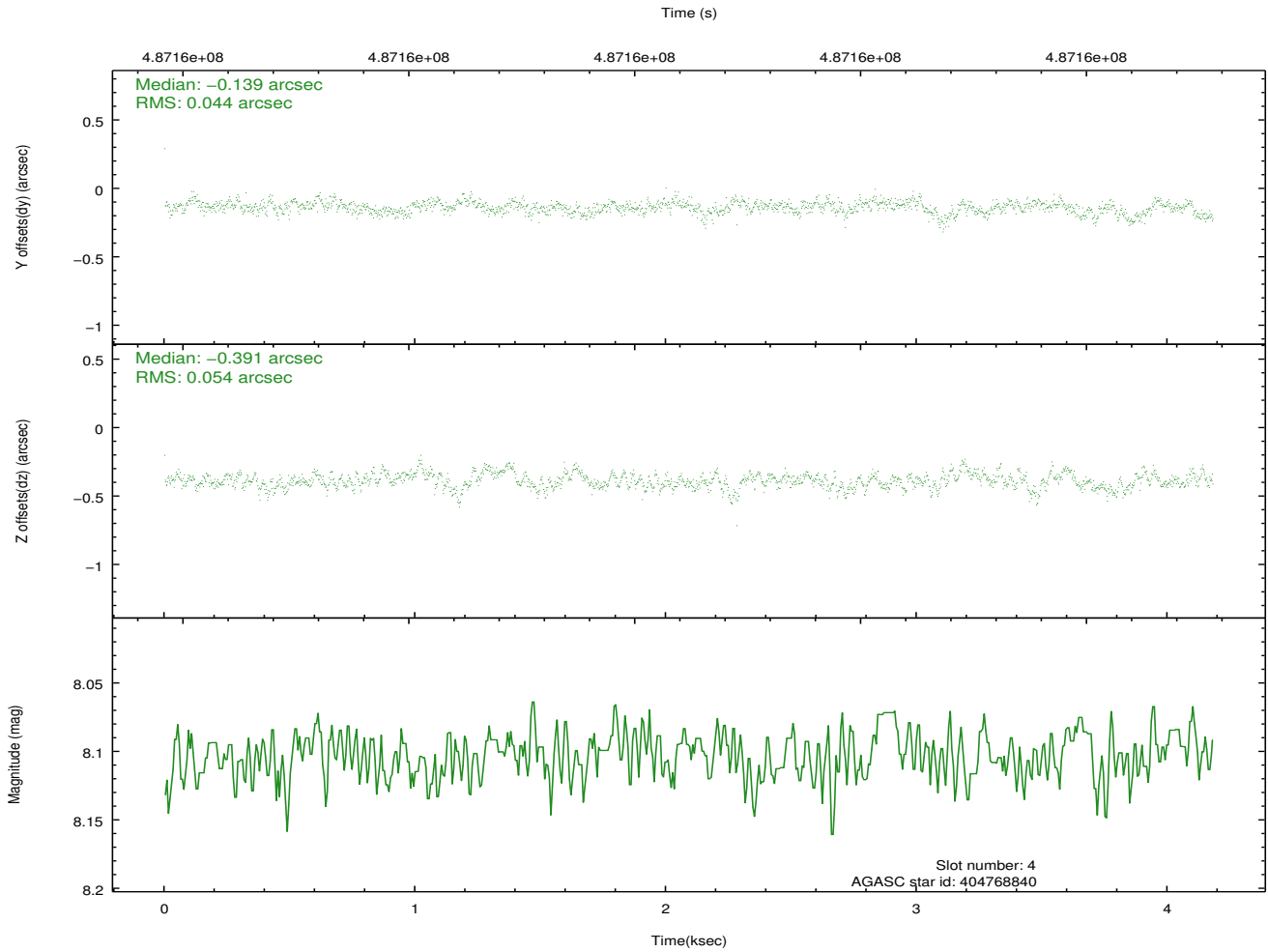
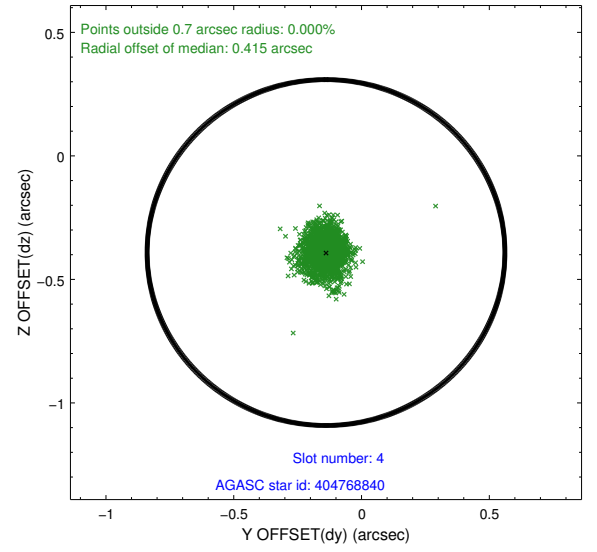
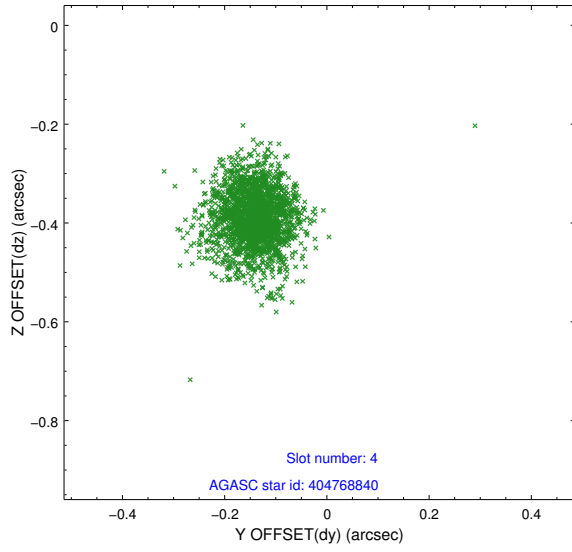
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	6.94	1020	-0.082	0.026	0.006	0.011	0.000000	0.000000	-771.01	-1300.05
1	FID		HRC-I-2	6.98	1020	0.232	-0.122	0.006	0.010	0.000000	0.000000	841.18	-1303.08
2	FID		HRC-I-3	7.03	1020	-0.031	0.007	0.006	0.009	0.000000	0.000000	-1198.57	1003.22
3	GUIDE	used	404764504	9.26	2027	-0.103	-0.018	0.146	0.233	266.857958	39.116910	-669.36	672.17
4	GUIDE	used	404768840	8.10	2039	-0.139	-0.391	0.071	0.123	266.357241	39.362163	852.14	29.81
5	GUIDE	used	405274984	7.45	2040	0.016	0.122	0.073	0.117	267.419240	39.607721	-1909.09	-1333.61
6	GUIDE	used	405283480	8.17	2040	0.004	0.196	0.093	0.157	266.185750	40.060168	1722.74	-2375.28
7	GUIDE	used	405287536	9.40	2032	0.223	0.089	0.166	0.274	266.479086	39.431109	559.37	-270.95

## 2.4 Star Slots

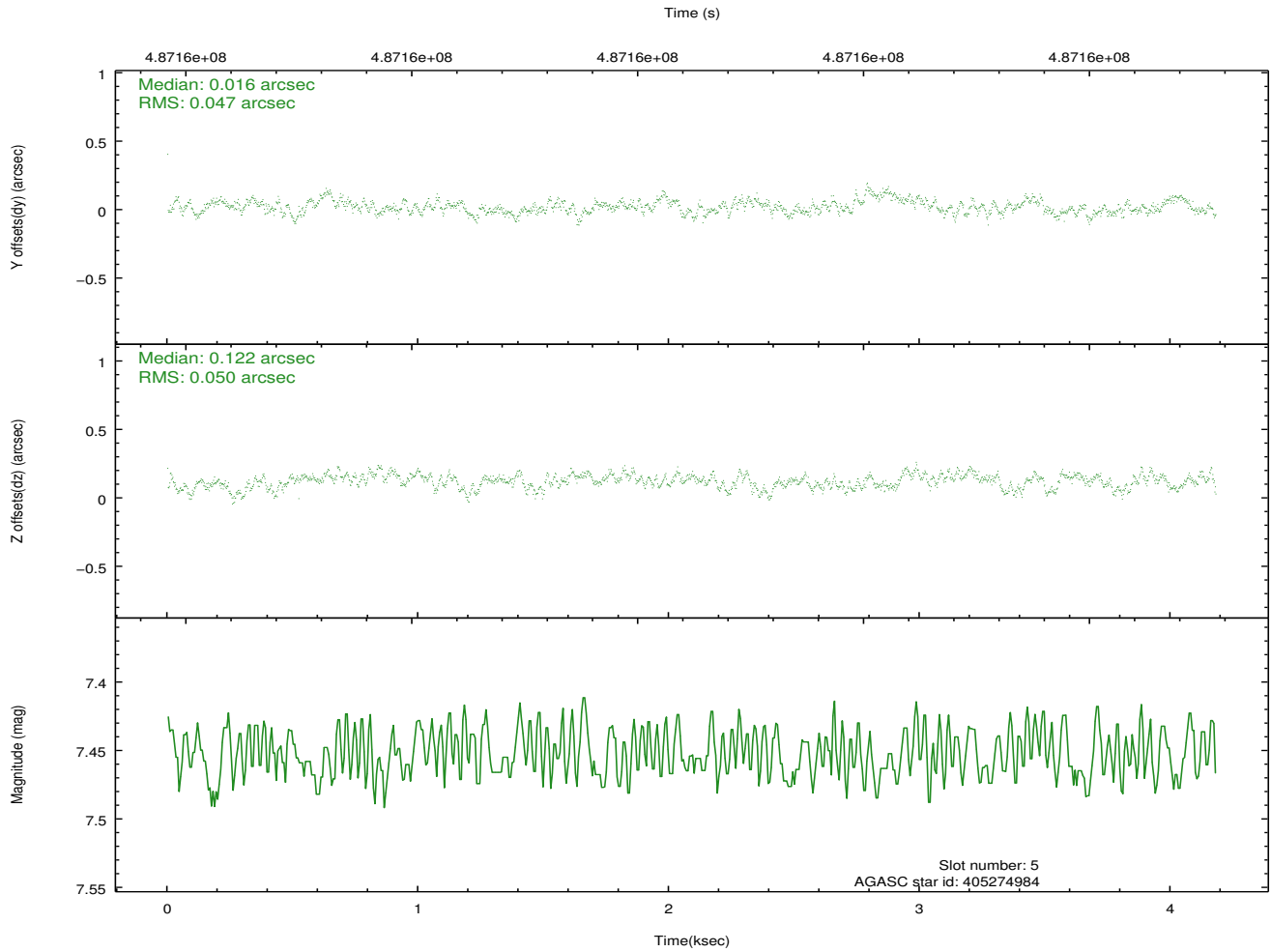
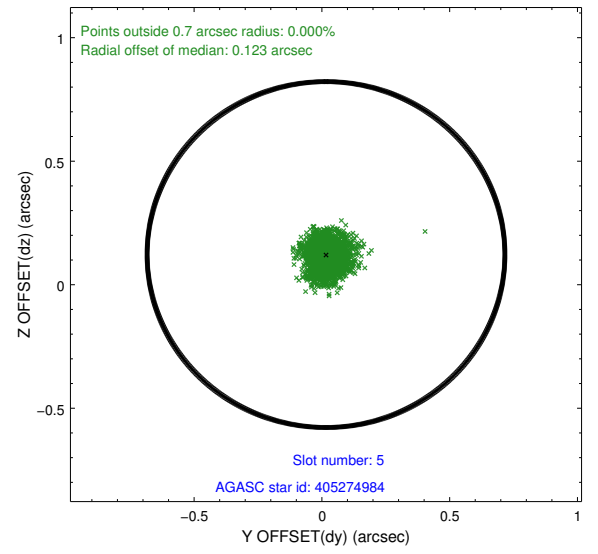
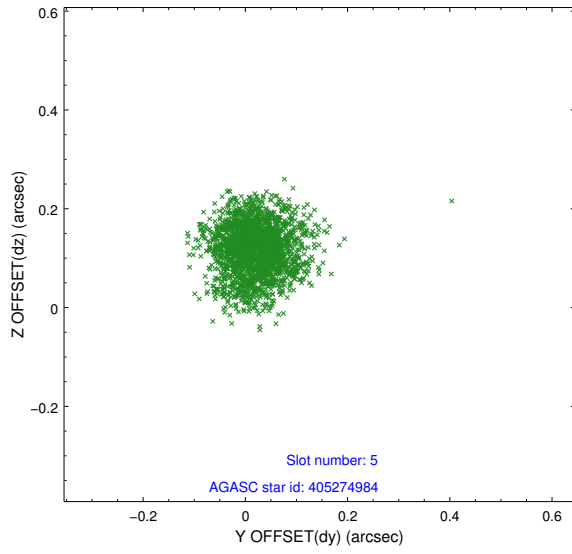
### 2.4.1 Slot 3



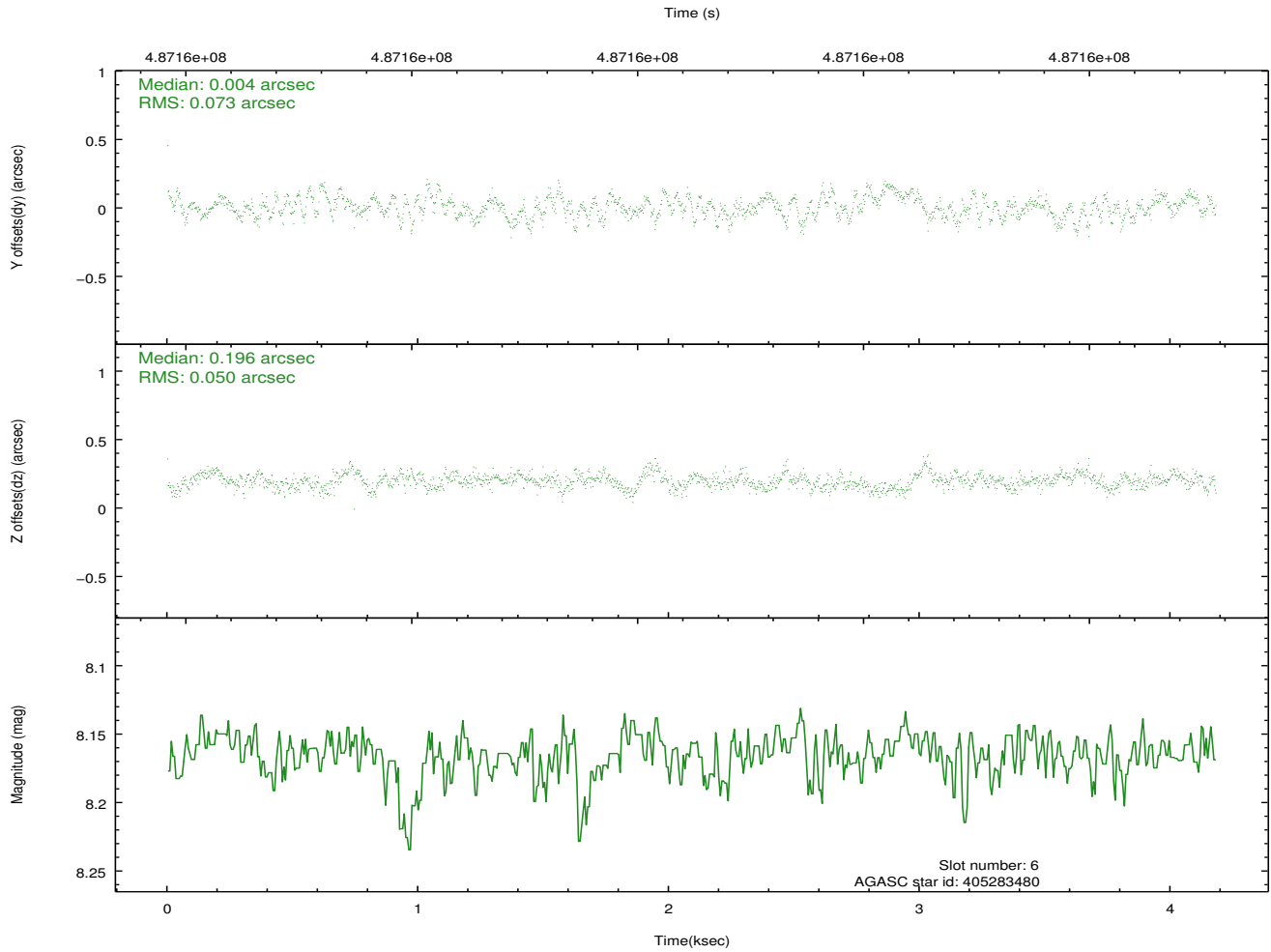
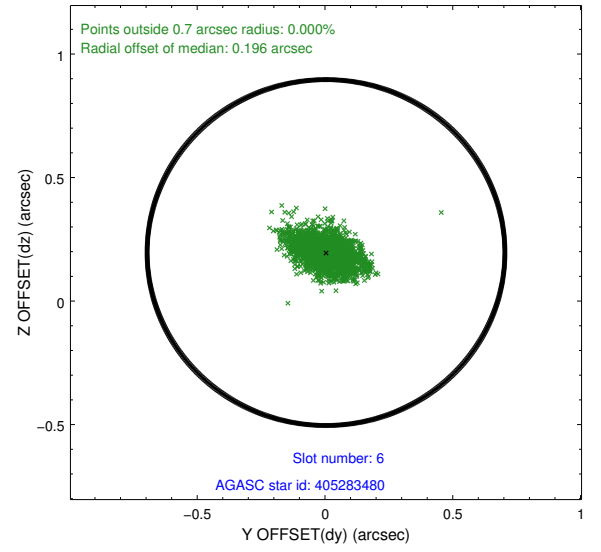
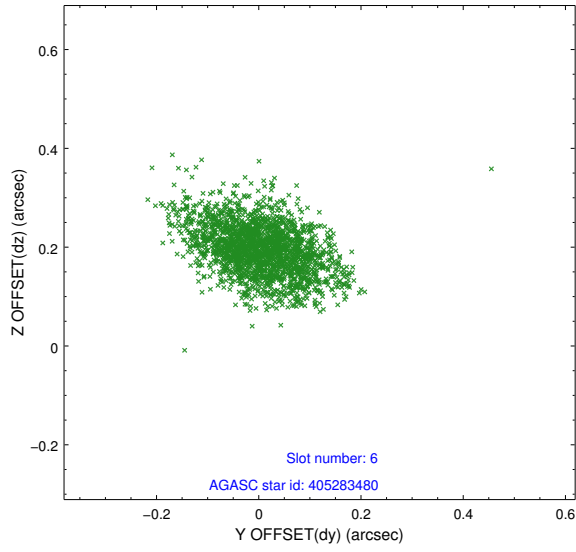
## 2.4.2 Slot 4



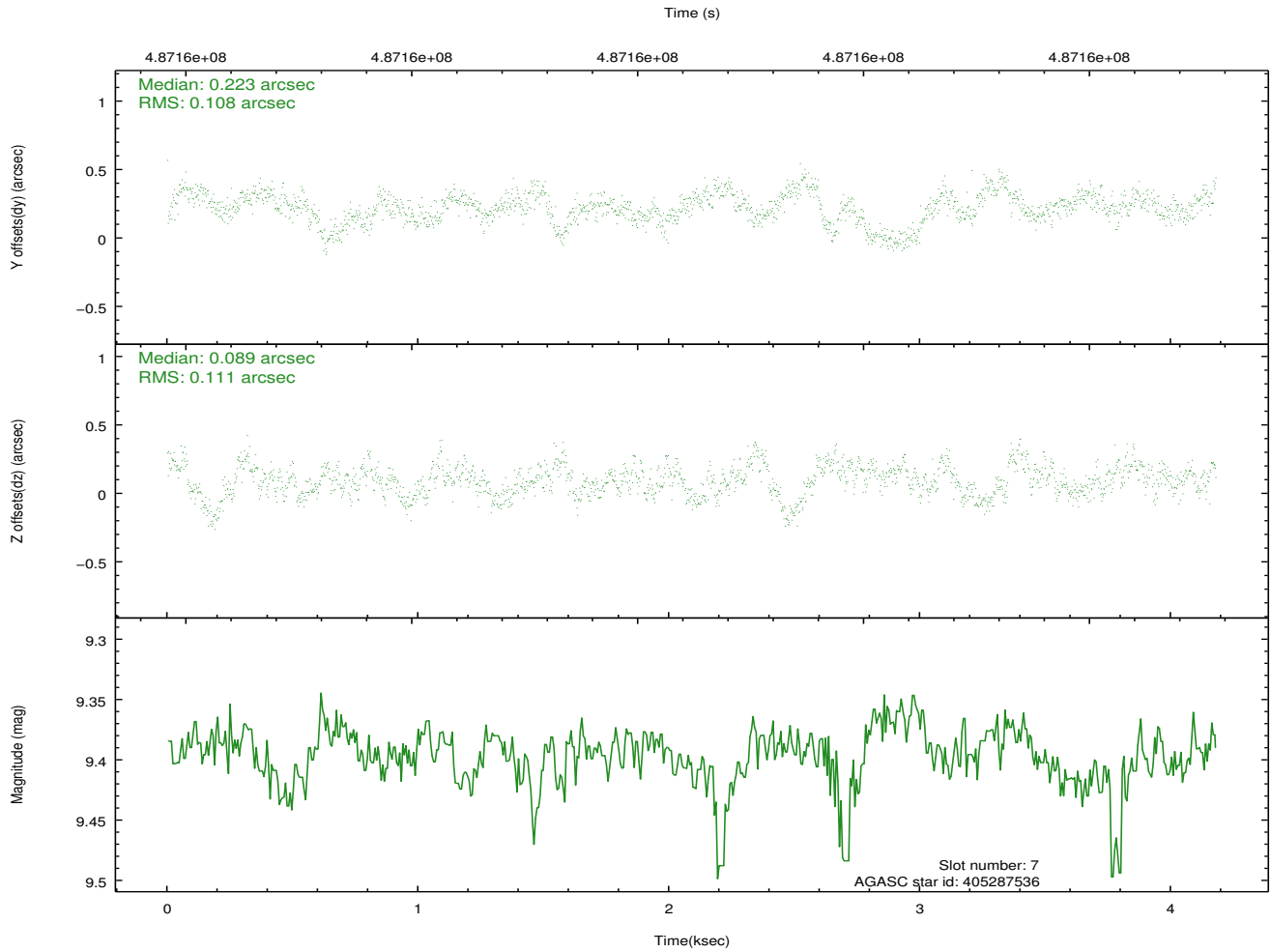
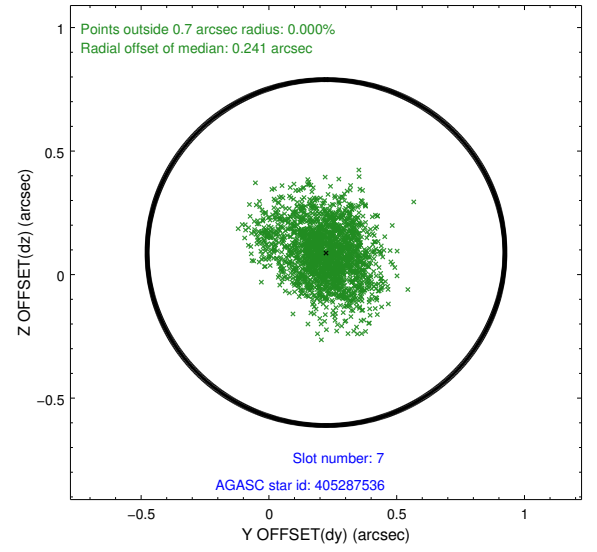
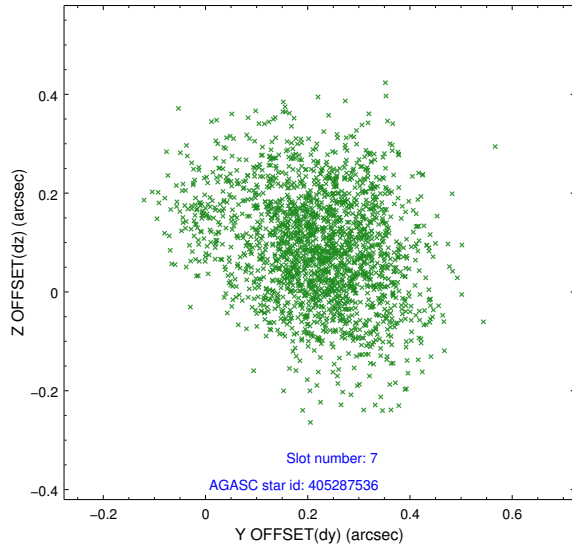
### 2.4.3 Slot 5



## 2.4.4 Slot 6

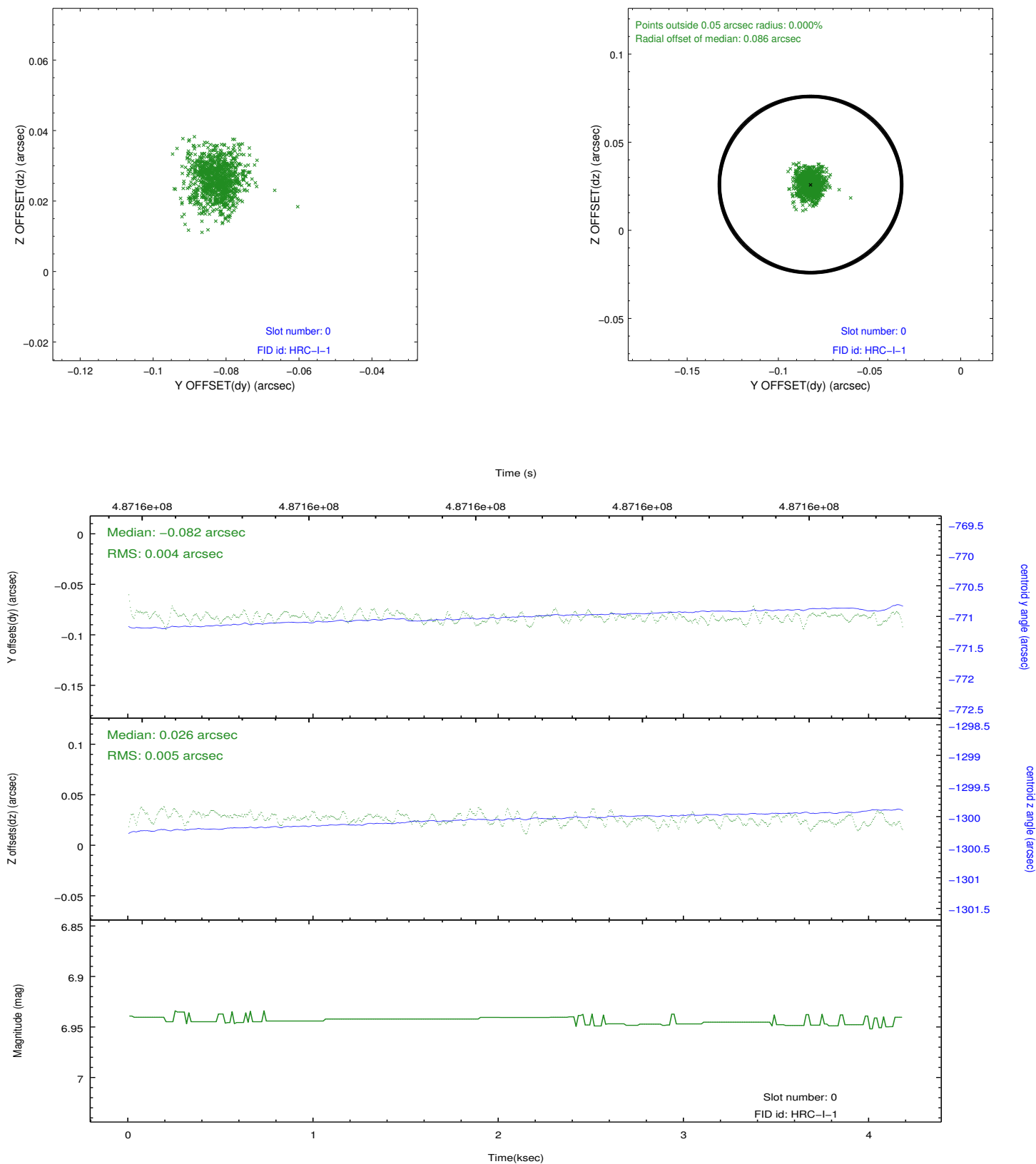


## 2.4.5 Slot 7

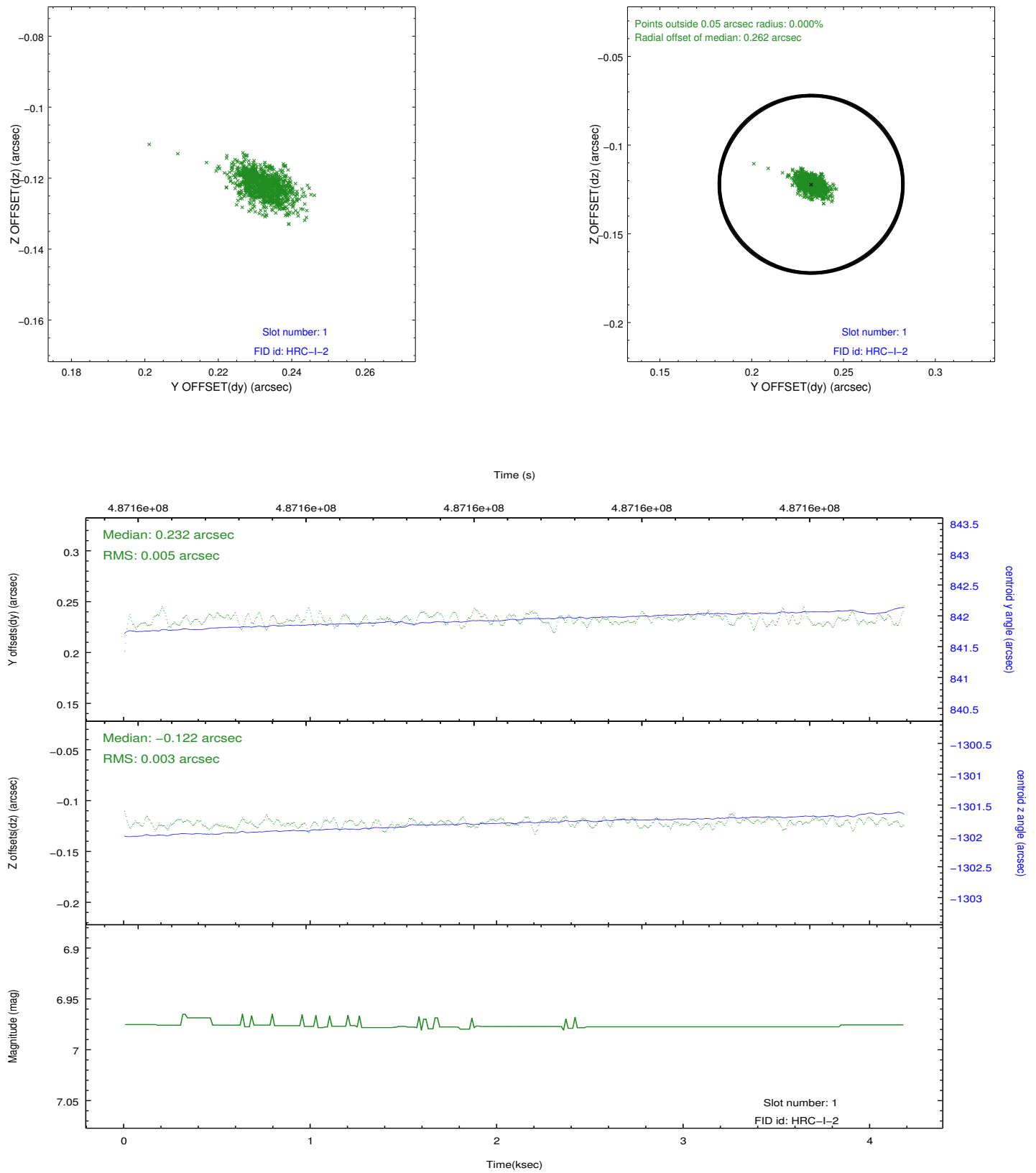


## 2.5 FID Slots

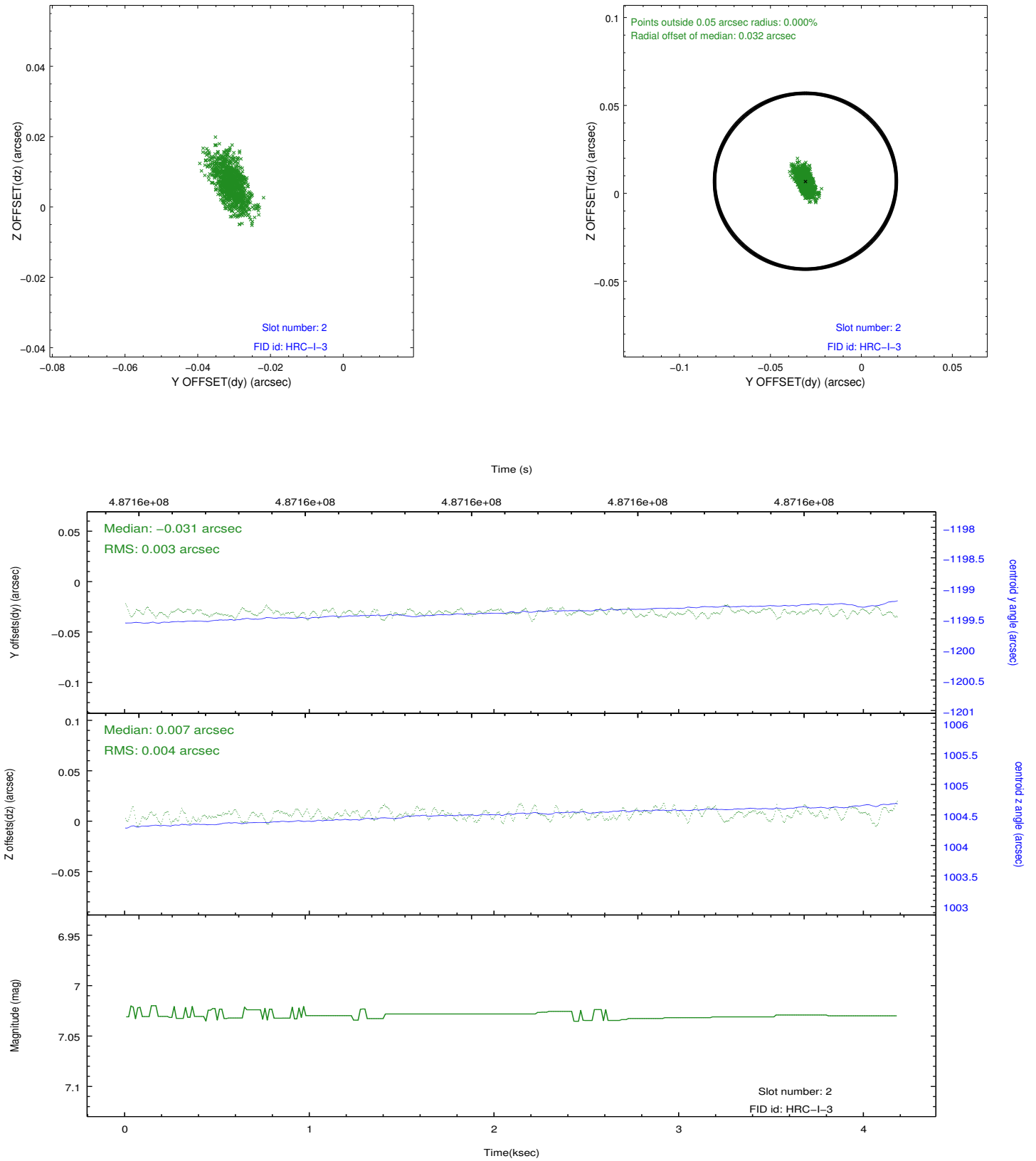
### 2.5.1 Slot 0



## 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)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.1789252266884

## A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.