

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 14644 - L2 Version 2  
Chandra X-Ray Center

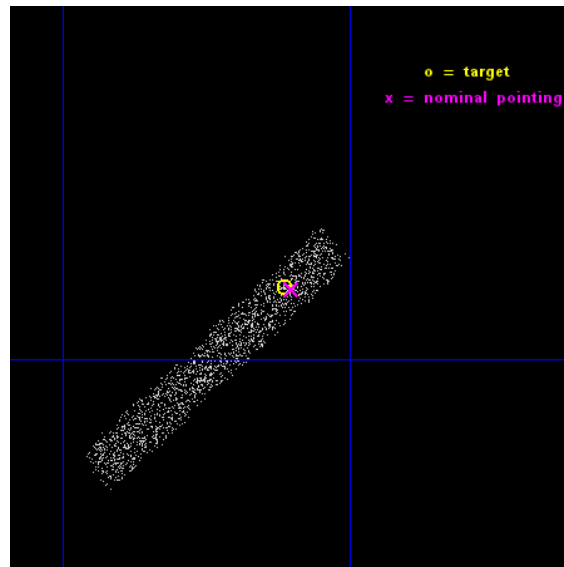
L2 Processing Date : Dec 3 2014

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# 1 Front

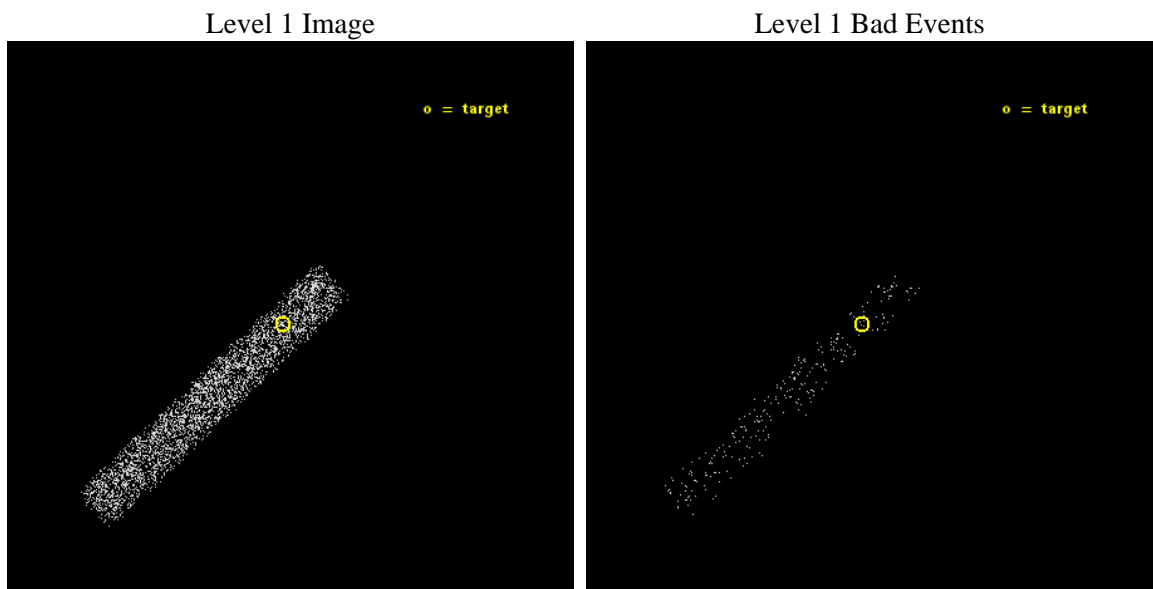
seq_num	401477	Sequence number
obs_id	14644	Observation id
title	A snap-shot survey of Galactic neutron-star Be/X-ray transients in quiescence	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	GS 1843+00	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	281.403333	Observer's specified target RA [deg]
dec_targ	0.863417	Observer's specified target Dec [deg]
ra_nom	281.40032309083	Nominal RA [deg]
dec_nom	0.86262280449224	Nominal Dec [deg]
roll_nom	137.1885436117	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5069.9340338111	Sum of GTIs [s]
livetime	4598.1625556059	Livetime [s]
ontime7	5069.9340338111	Sum of GTIs [s]
l2events	2014	Number of level 2 events



## 2 OBI

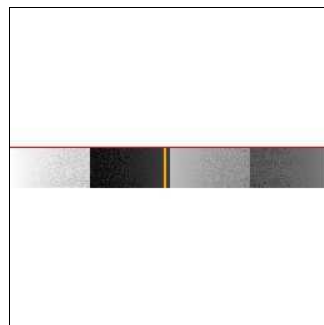
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5069.9340338111	Sum of GTIs [s]
caldsver	4.6.4	&#160	ontime7	5069.9340338111	Sum of GTIs [s]
date	2014-12-03T16:41:19	Date and time of file creation	l1events	4234	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	4234
rejected events	2118
rejected %	50%

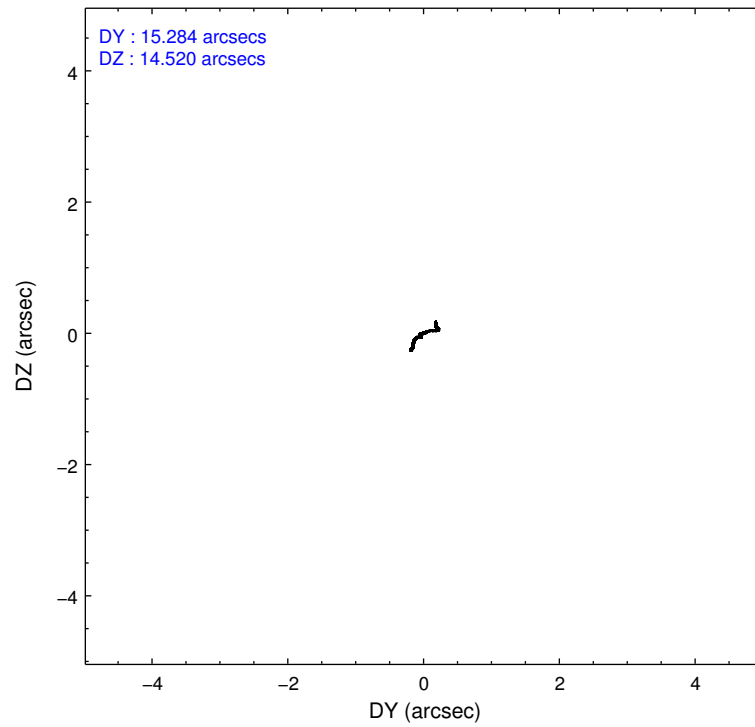
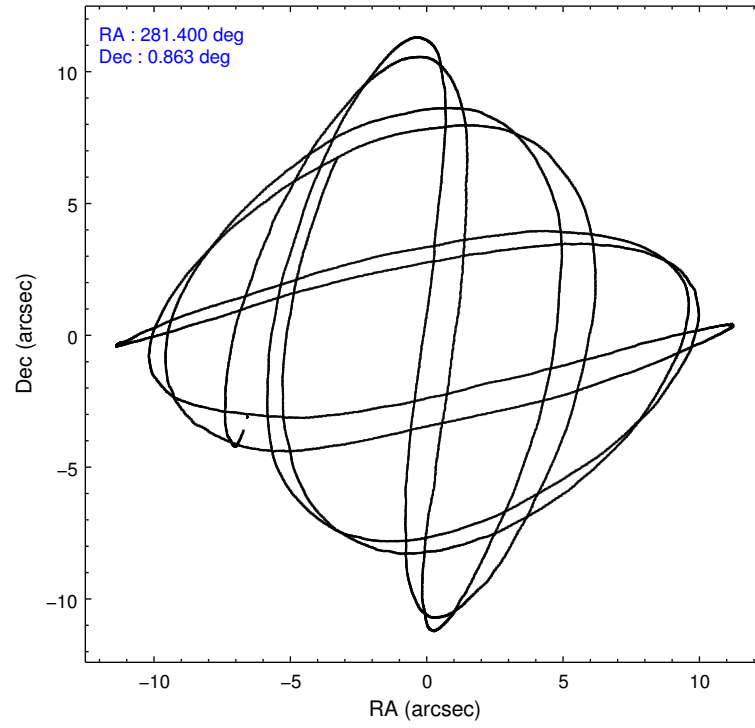
	<b>ccd 7</b>
grade 0 events	220
	5%
grade 1 events	4
	0%
grade 2 events	442
	10%
grade 3 events	254
	5%
grade 4 events	256
	6%
grade 5 events	432
	10%
grade 6 events	944
	22%
grade 7 events	1682
	39%

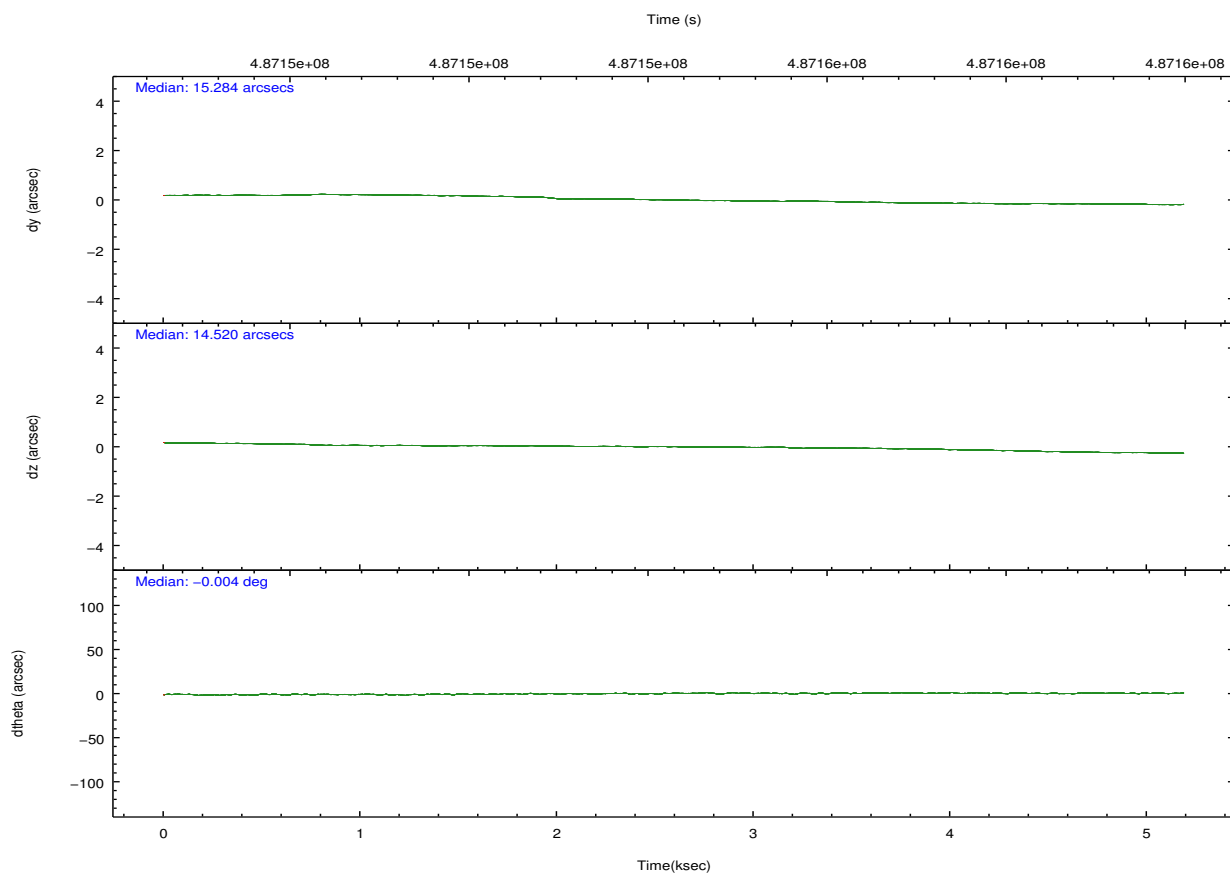
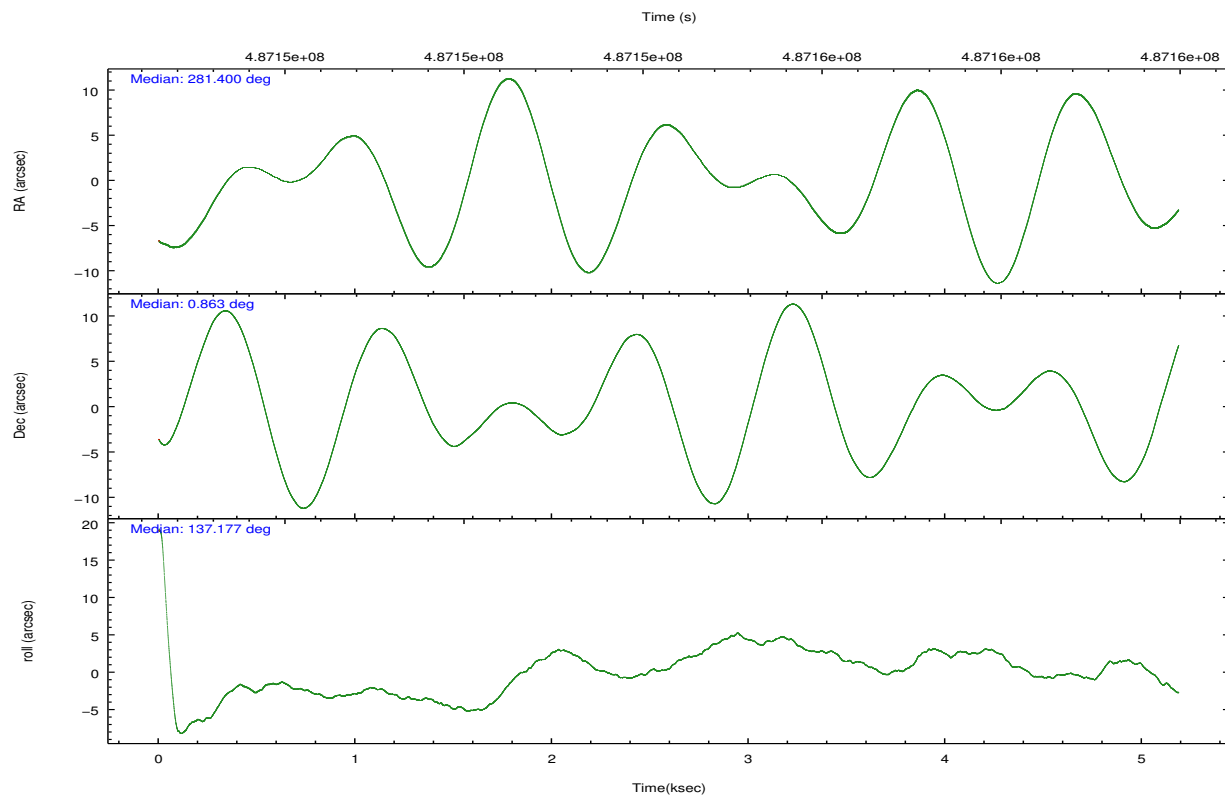


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	281.427150	281.4003230908276	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	0.856954	0.8626228044922374	Subarray start row	449	449
[deg] Pointing Roll	137.031420	137.1885436116982	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	487151742.184000	487150708.56085			
Observation start date	2013-06-09T07:54:35	2013-06-09T07:38:28			
[s] Observation end time (MET)	487156742.184000	487157414.11122			
Observation end date	2013-06-09T09:17:55	2013-06-09T09:30:14			
Read mode	TIMED	TIMED			

## 2.3 Aspect



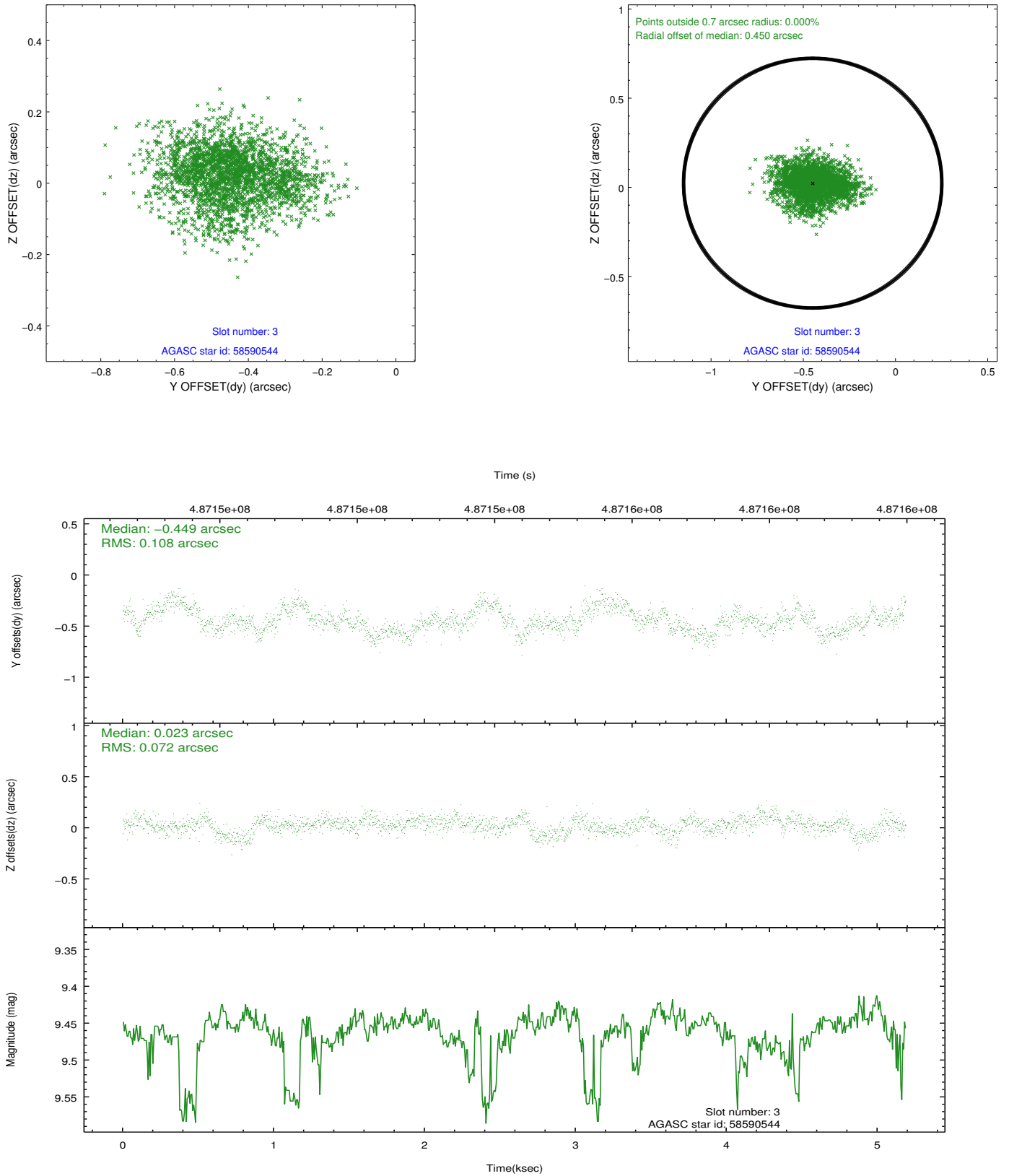


### Slot Statistics

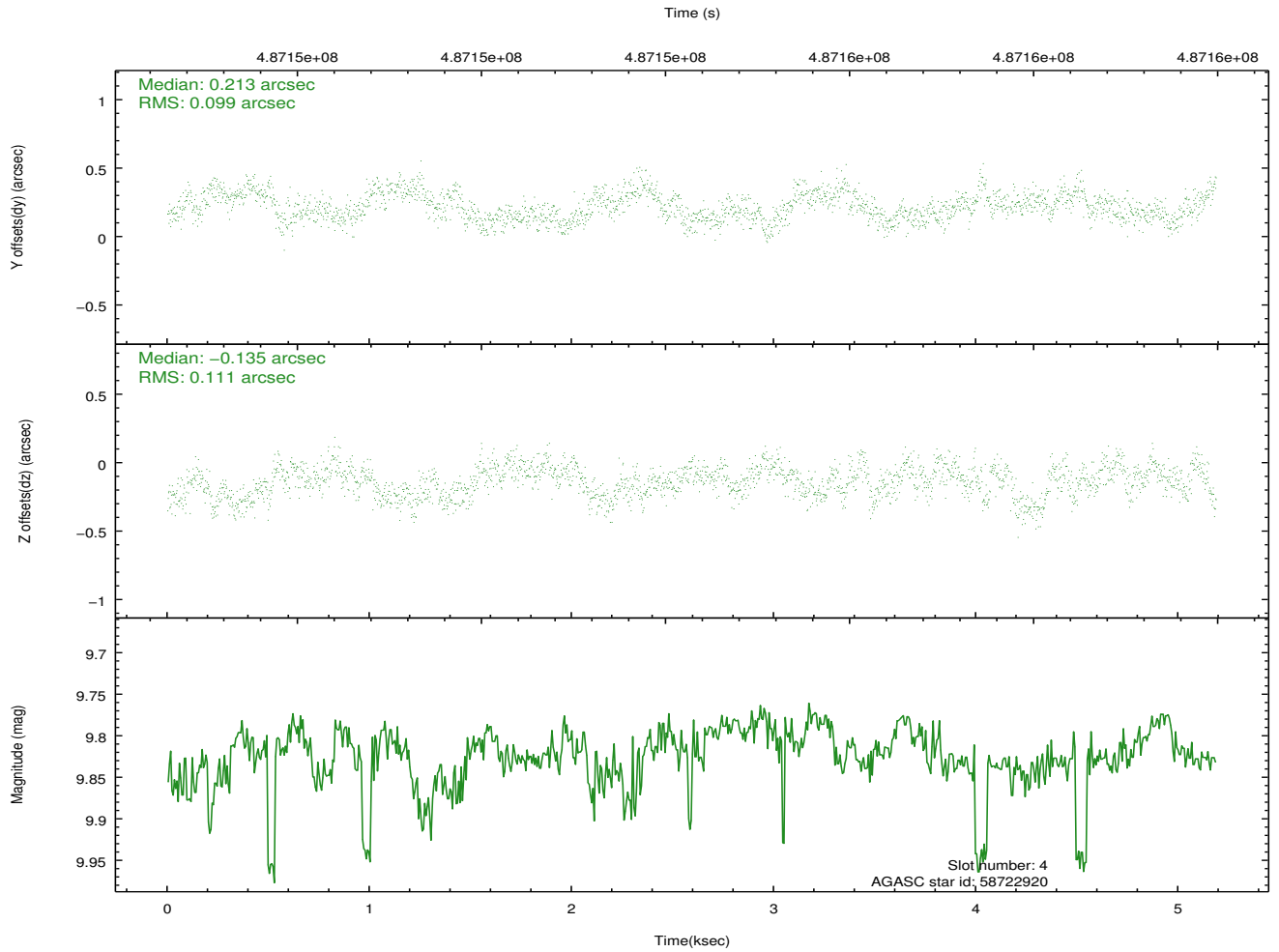
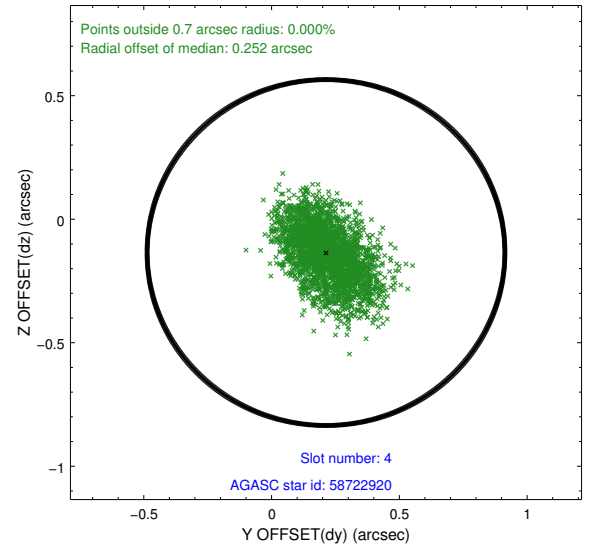
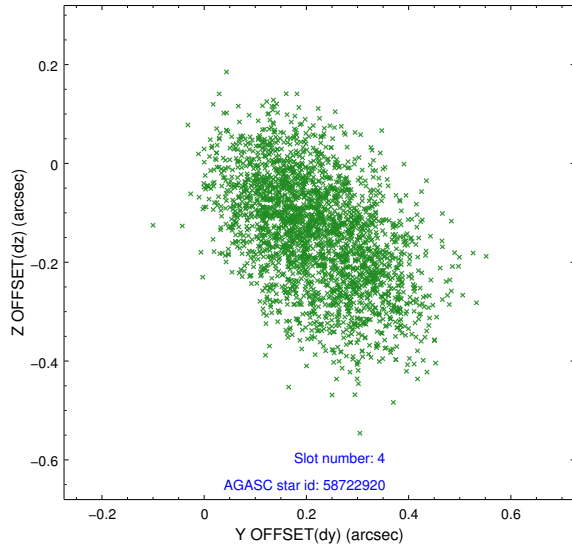
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.89	1266	-0.102	-0.002	0.007	0.011	0.000000	0.000000	-768.38	-1735.86
1	FID		ACIS-S-4	6.97	1266	0.207	0.050	0.006	0.010	0.000000	0.000000	2144.67	171.46
2	FID		ACIS-S-5	6.99	1264	-0.136	-0.039	0.007	0.013	0.000000	0.000000	-1819.76	166.38
3	GUIDE	used	58590544	9.46	2508	-0.449	0.023	0.141	0.226	280.718293	0.998212	2213.15	1367.30
4	GUIDE	used	58722920	9.82	2518	0.213	-0.135	0.159	0.258	281.357702	0.158865	-1529.31	2009.41
5	GUIDE	used	58725744	8.21	2529	0.048	0.188	0.089	0.136	281.624244	0.869828	-487.93	-516.65
6	GUIDE	used	58723432	9.37	2528	0.230	0.080	0.160	0.237	281.607702	0.847751	-498.40	-419.28
7	GUIDE	used	58722144	9.80	2530	-0.051	-0.154	0.188	0.330	281.406958	1.695107	2110.11	-2158.35

## 2.4 Star Slots

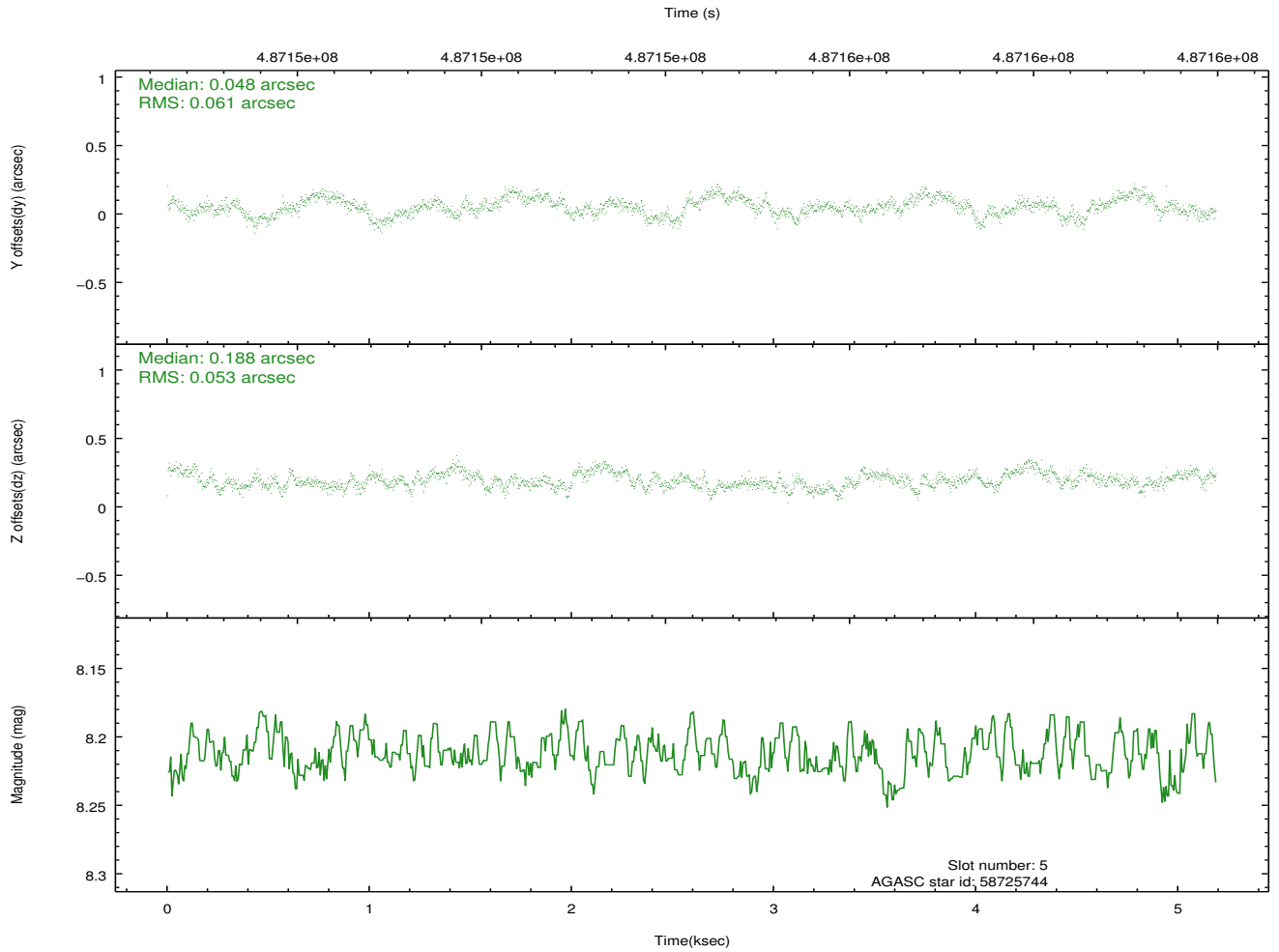
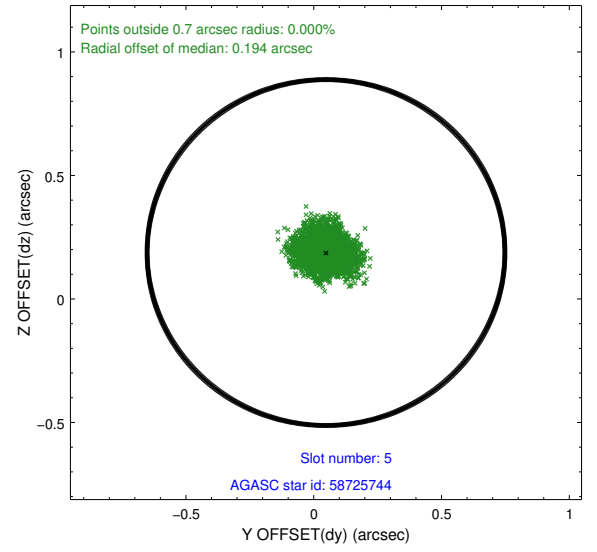
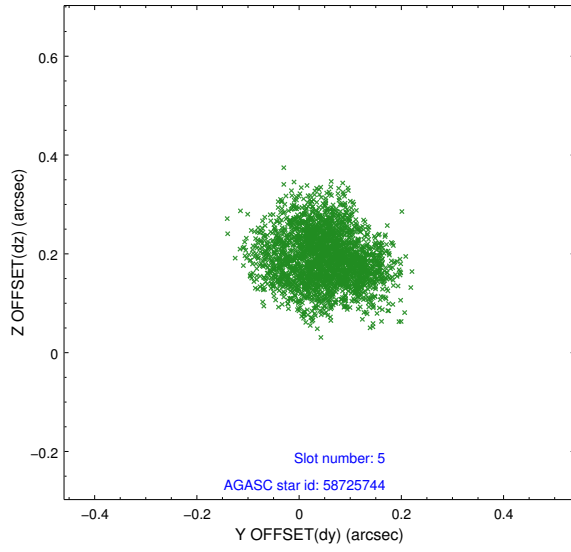
### 2.4.1 Slot 3



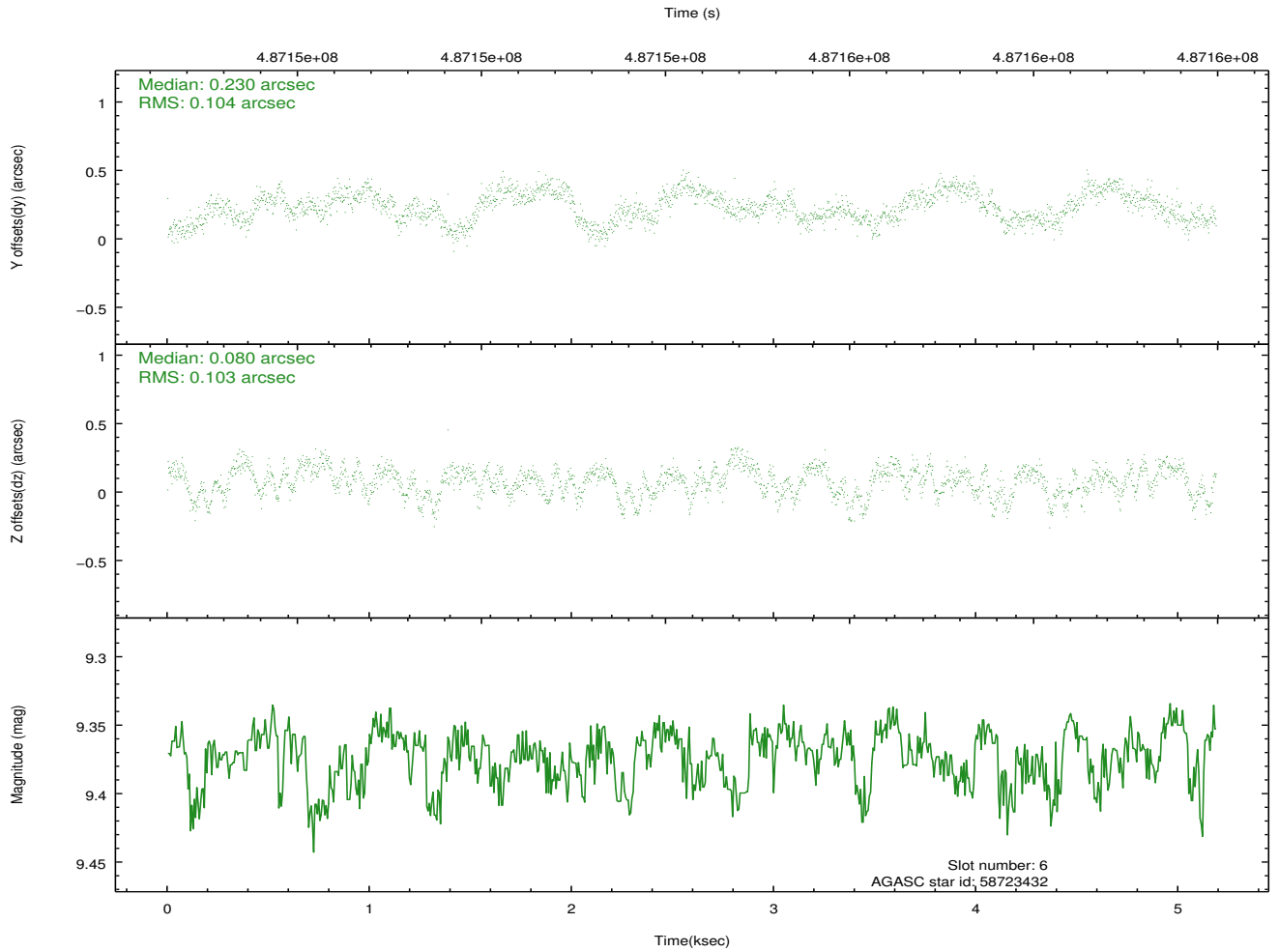
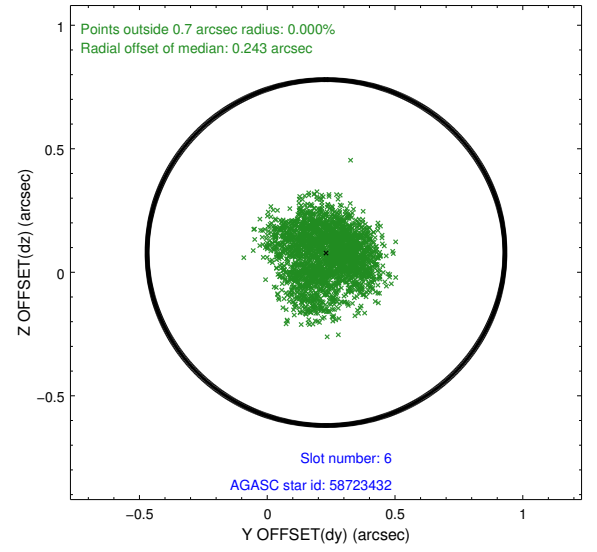
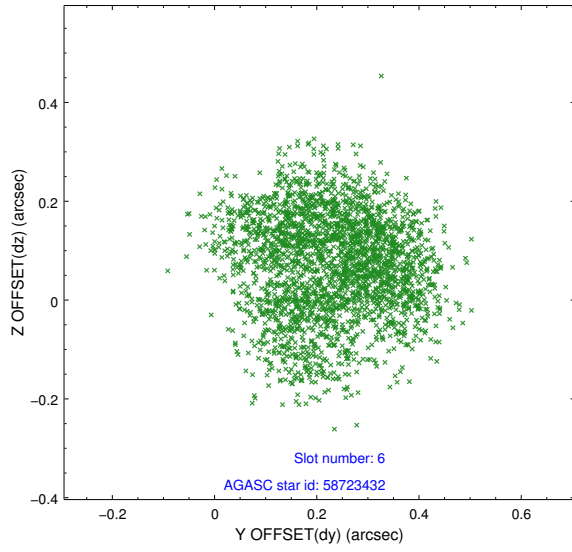
## 2.4.2 Slot 4



### 2.4.3 Slot 5

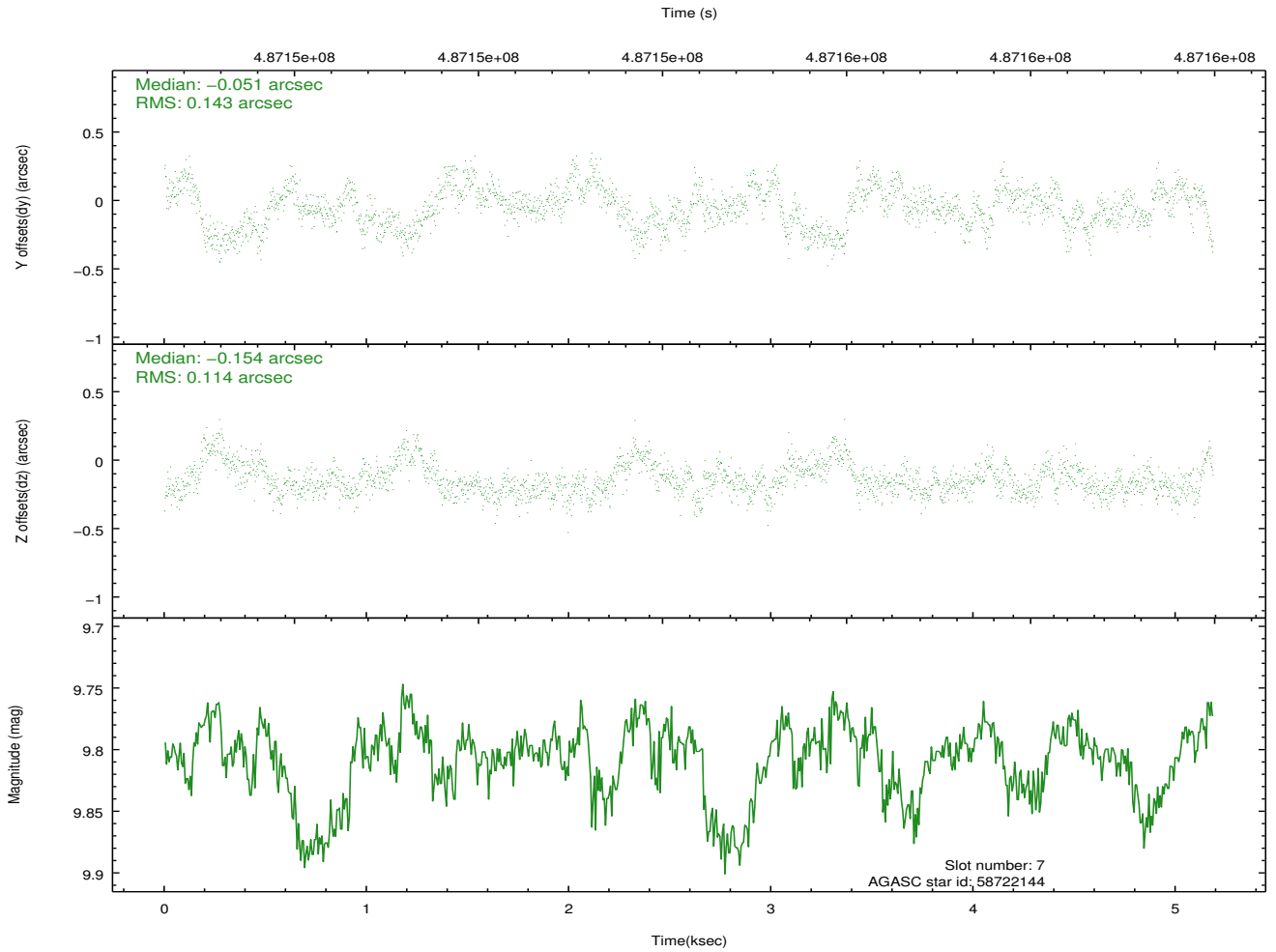
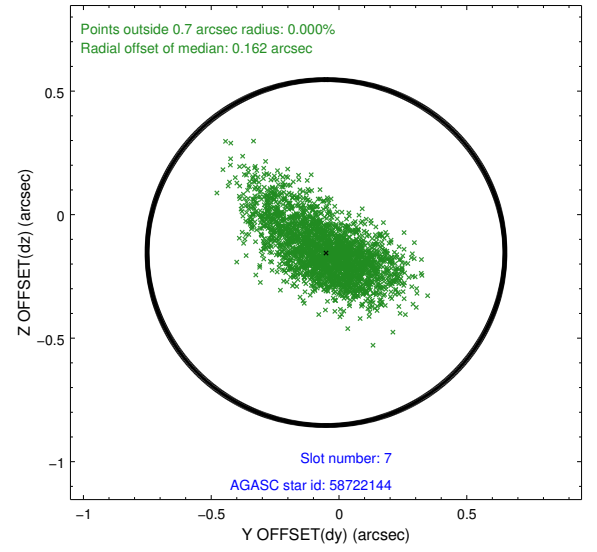
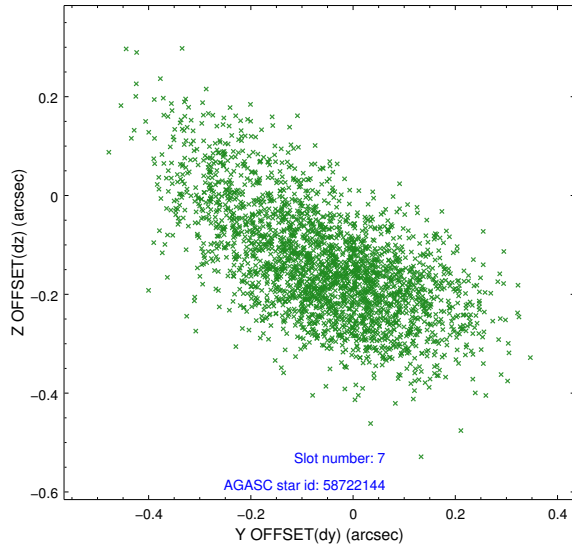


## 2.4.4 Slot 6



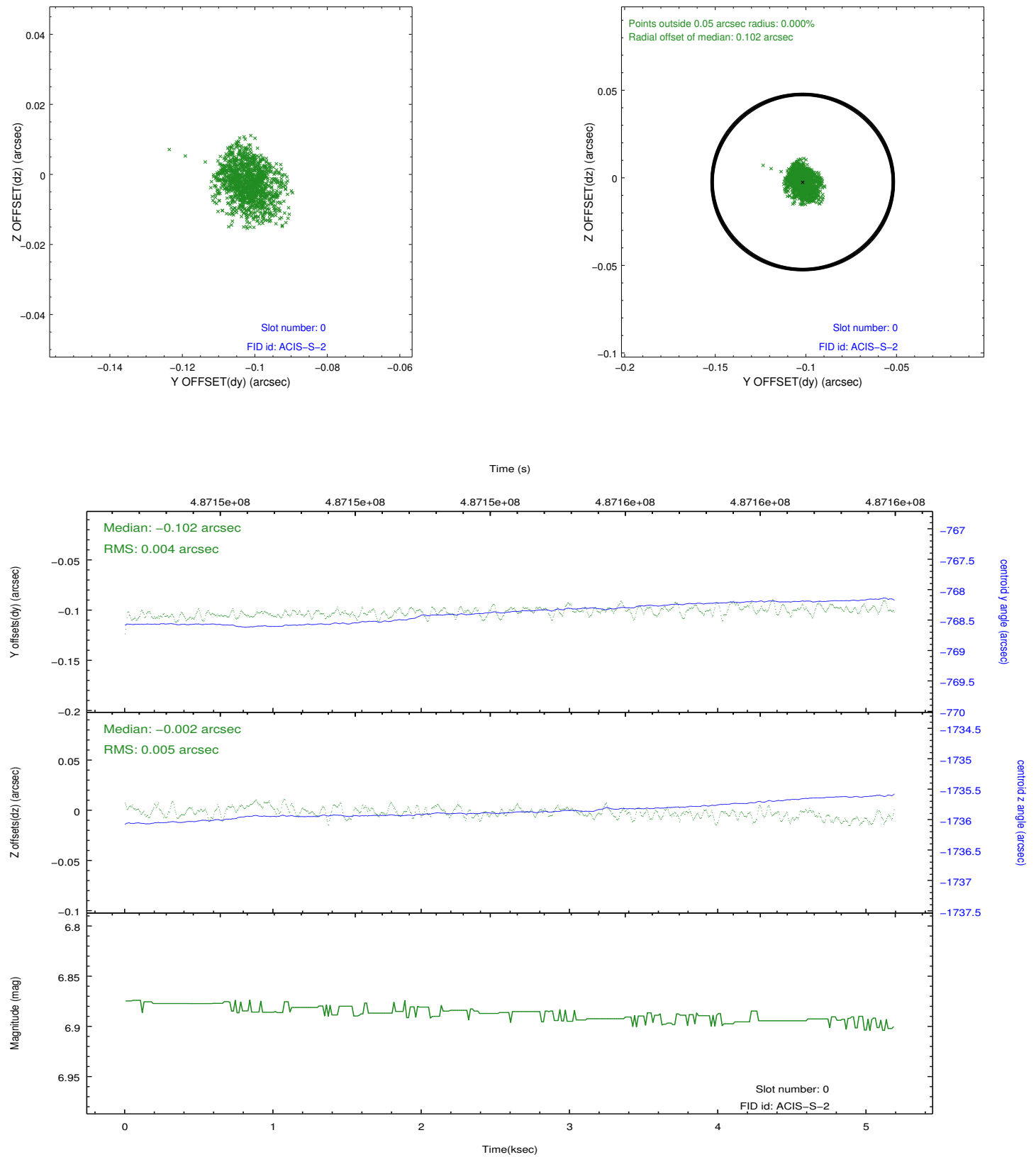


## 2.4.5 Slot 7

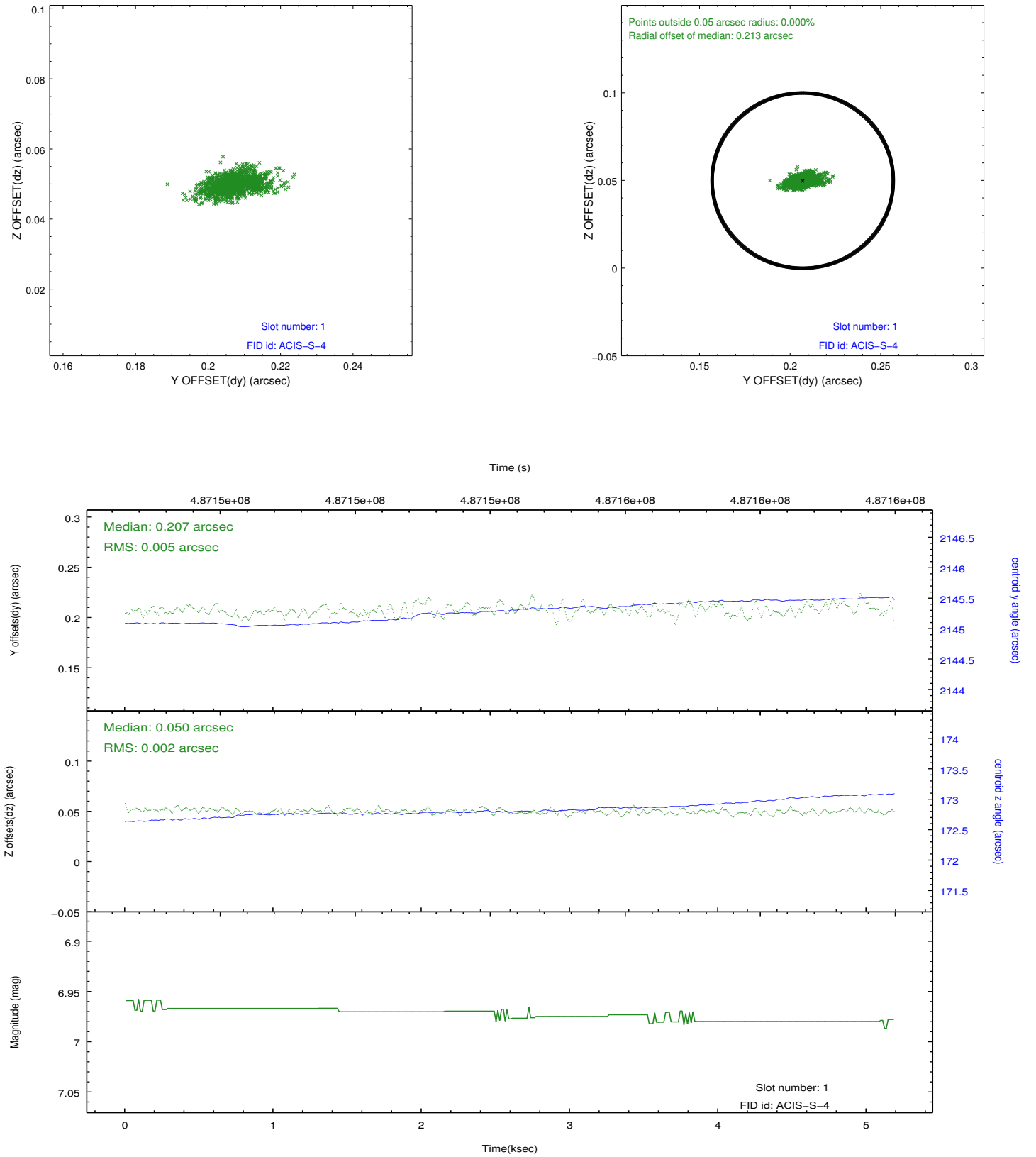


## 2.5 FID Slots

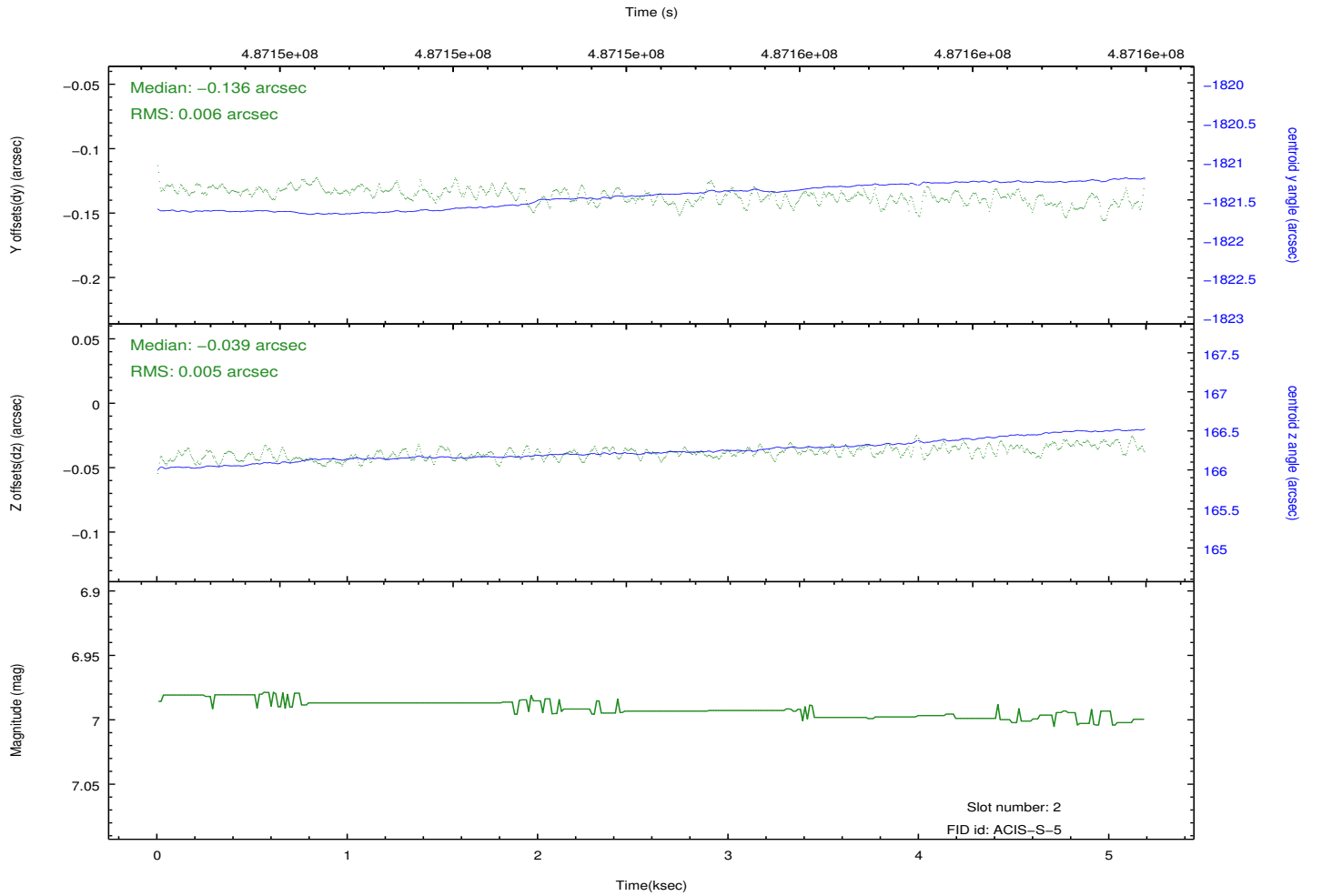
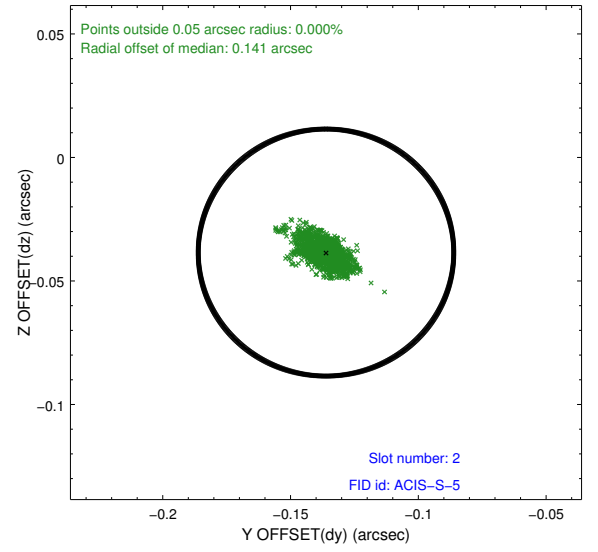
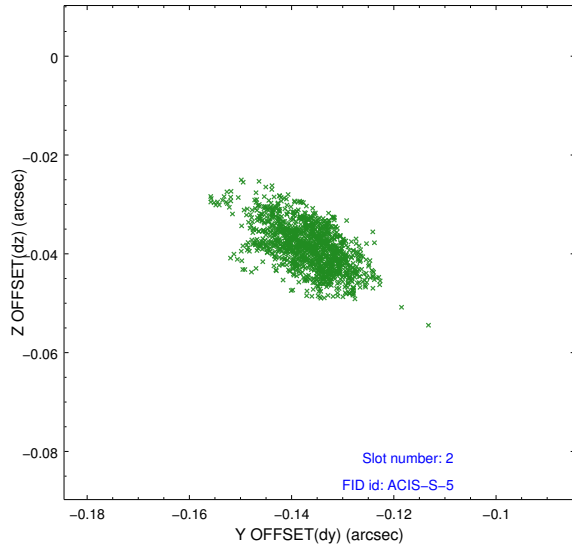
### 2.5.1 Slot 0



## 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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0699340338111

## 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.