

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9291 - L2 Version 2  
Chandra X-Ray Center

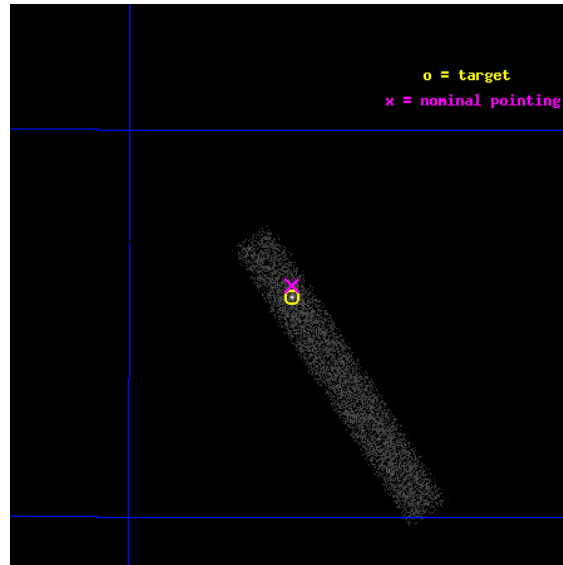
L2 Processing Date : May 10 2012

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# 1 Front

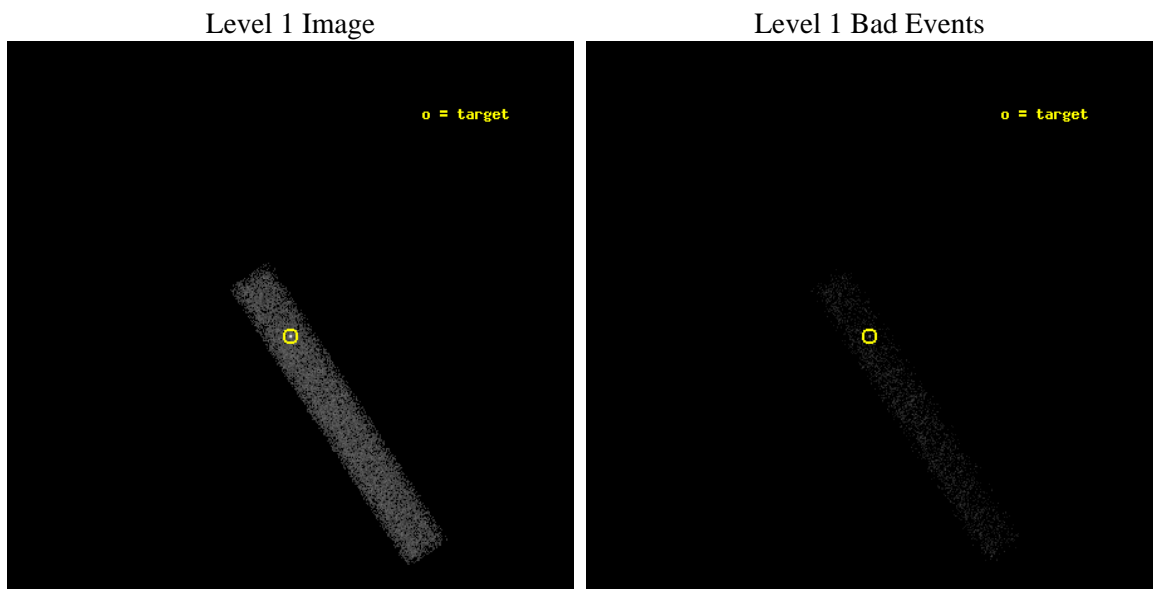
seq_num	701731	Sequence number
obs_id	9291	Observation id
title	Surveying X-ray Jets in Superluminal Blazars	Proposal title
observer	Dr. Matthew Lister	Principal investigator
object	1849+670	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	282.317083	Observer's specified target RA [deg]
dec_targ	67.094889	Observer's specified target Dec [deg]
ra_nom	282.31742380924	Nominal RA [deg]
dec_nom	67.099764489395	Nominal Dec [deg]
roll_nom	57.049189341455	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10187.999392748	Sum of GTIs [s]
livetime	9239.9776825212	Livetime [s]
ontime7	10187.999392748	Sum of GTIs [s]
l2events	11448	Number of level 2 events



## 2 OBI

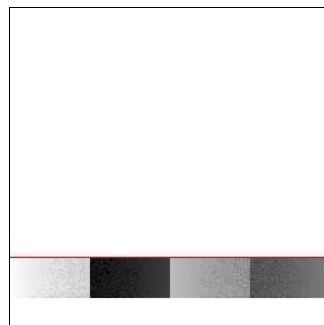
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.420000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	10187.999392748	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime7	10187.999392748	Sum of GTIs [s]
date	2012-05-10T11:02:16	Date and time of file creation	l1events	22745	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	22745
rejected events	11069
rejected %	48%

	<b>ccd 7</b>
grade 0 events	1625
	7%
grade 1 events	26
	0%
grade 2 events	2566
	11%
grade 3 events	1468
	6%
grade 4 events	1485
	6%
grade 5 events	1762
	7%
grade 6 events	5150
	22%
grade 7 events	8663
	38%

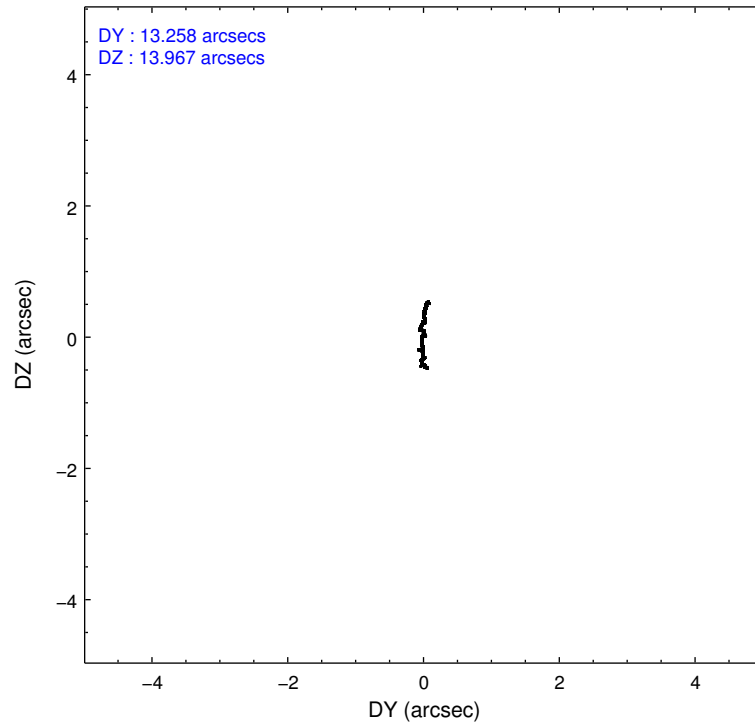
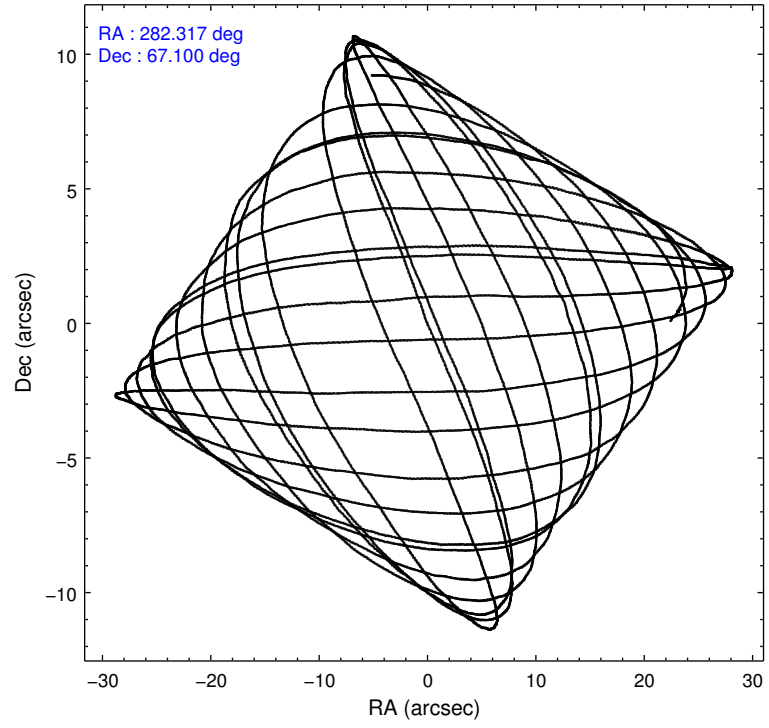


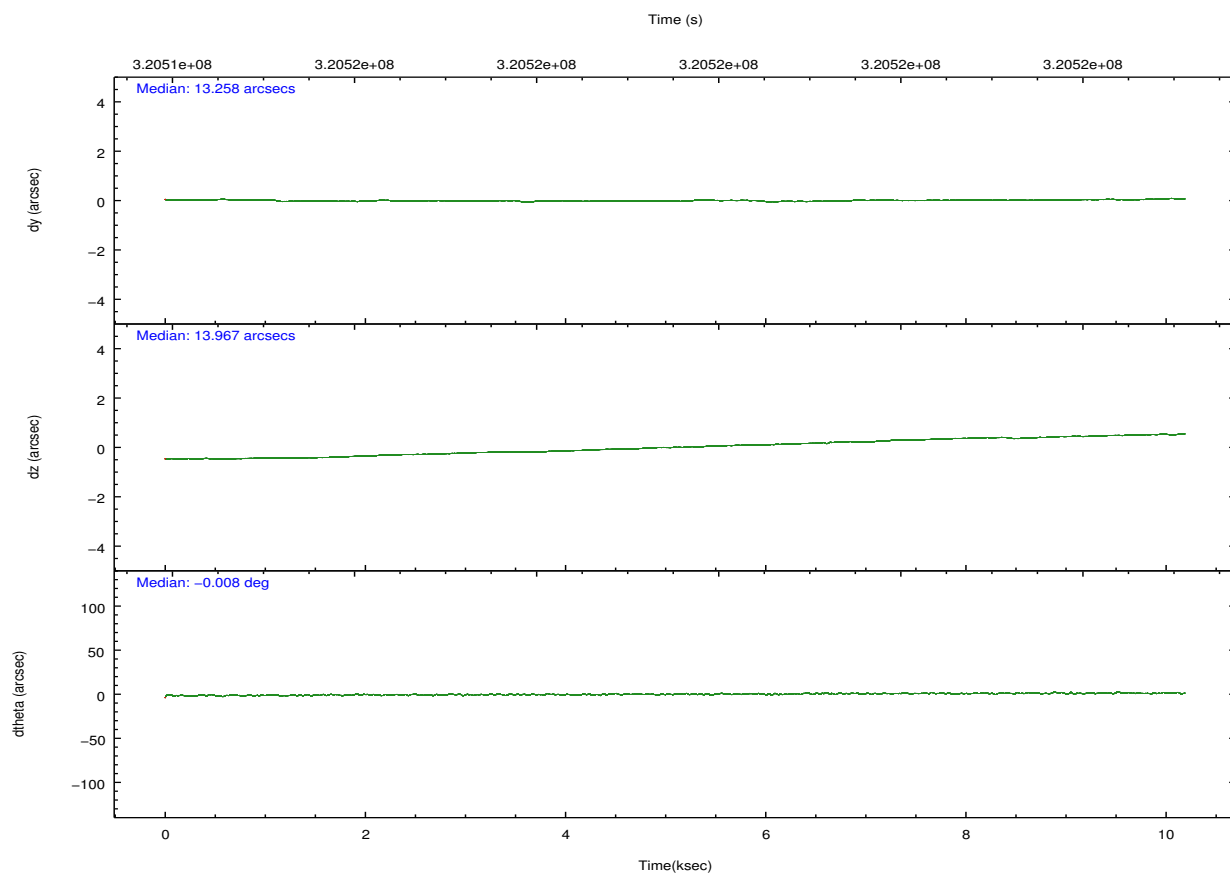
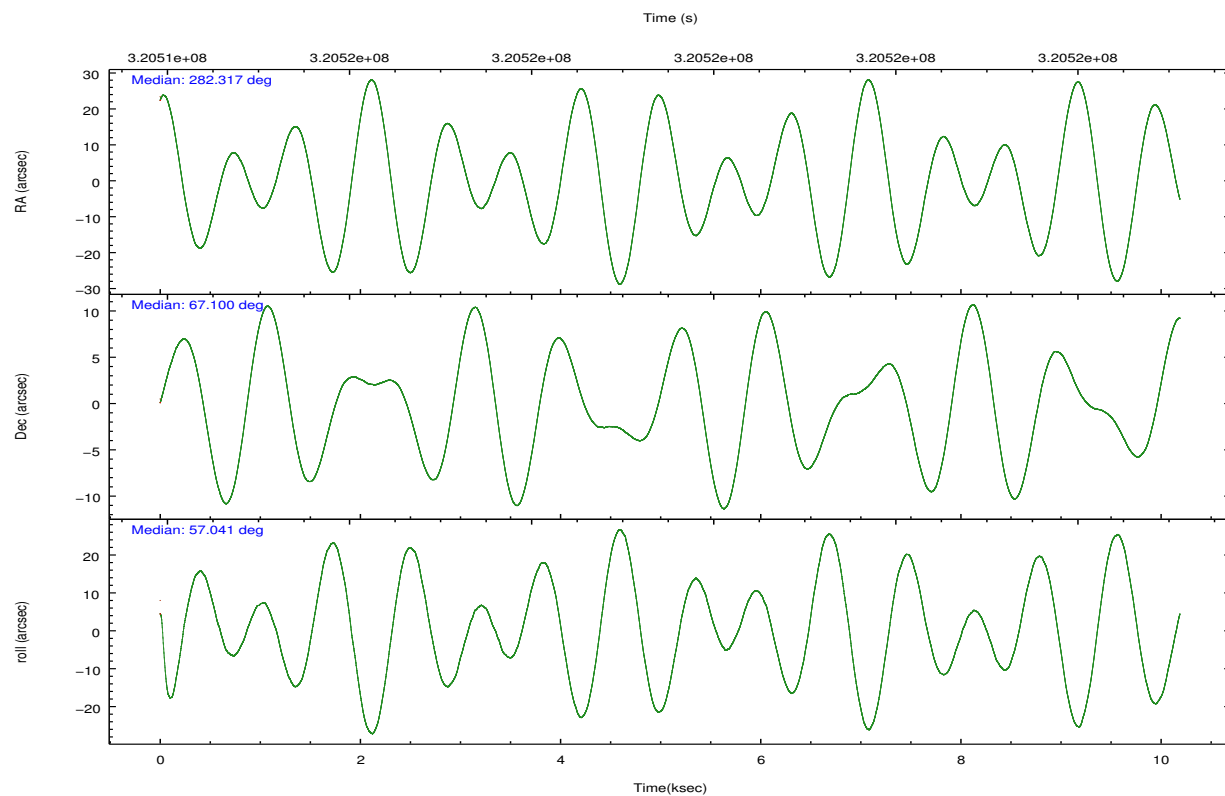
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	282.314684	282.3174238092438
[deg] Pointing Dec	67.072412	67.09976448939538
[deg] Pointing Roll	56.895055	57.04918934145459
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-181.422523	-181.4329921605696
[mm] SIM translation stage offset	-8.710000000000001	-8.699530422438215
[s] Observation start time (MET)	320514620.184000	320513592.59443
Observation start date	2008-02-27T15:49:15	2008-02-27T15:33:12
[s] Observation end time (MET)	320524621.184000	320524836.84498
Observation end date	2008-02-27T18:35:56	2008-02-27T18:40:36
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	100	100
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

## 2.3 Aspect



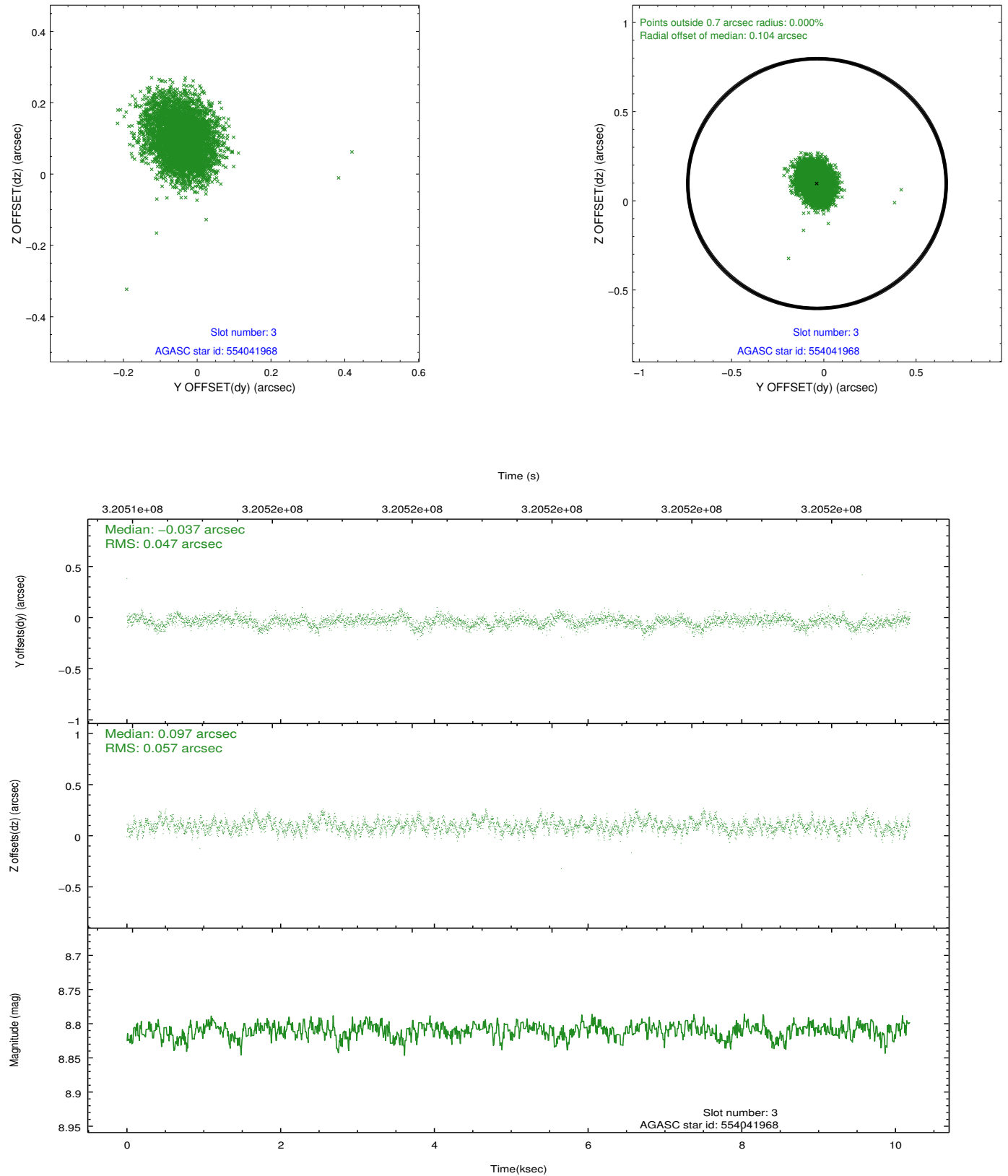


### Slot Statistics

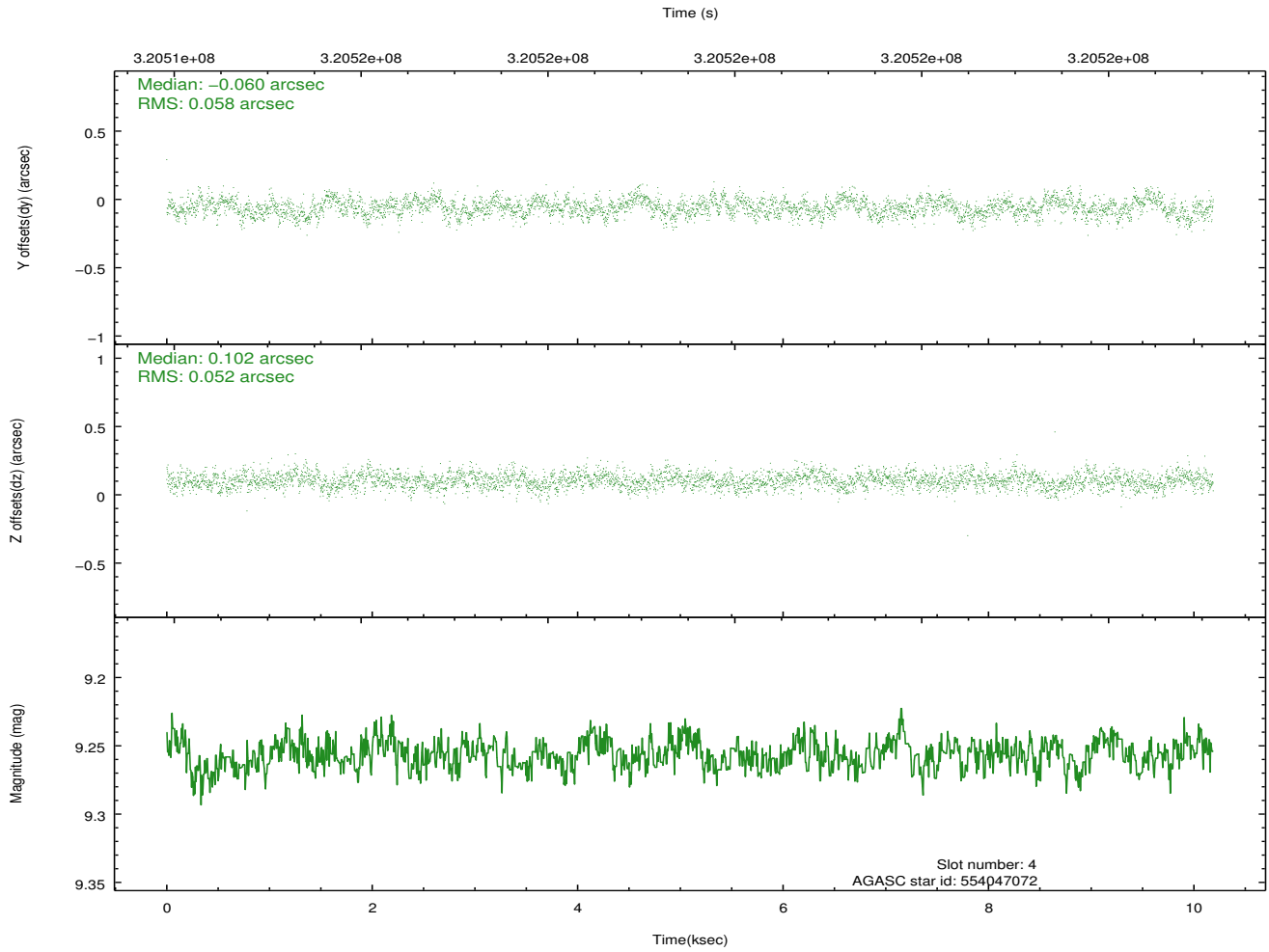
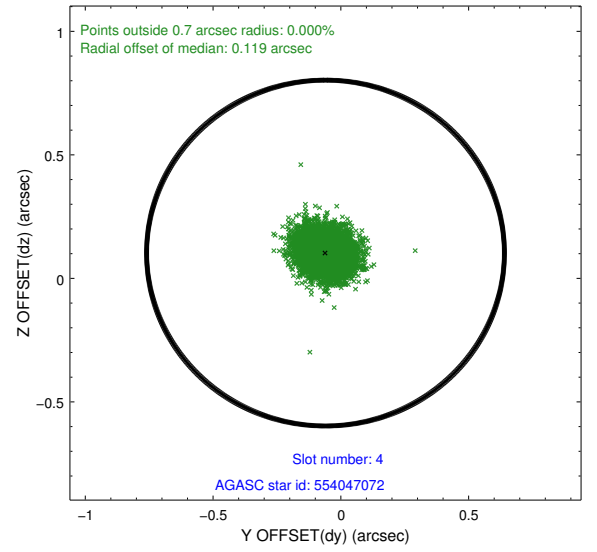
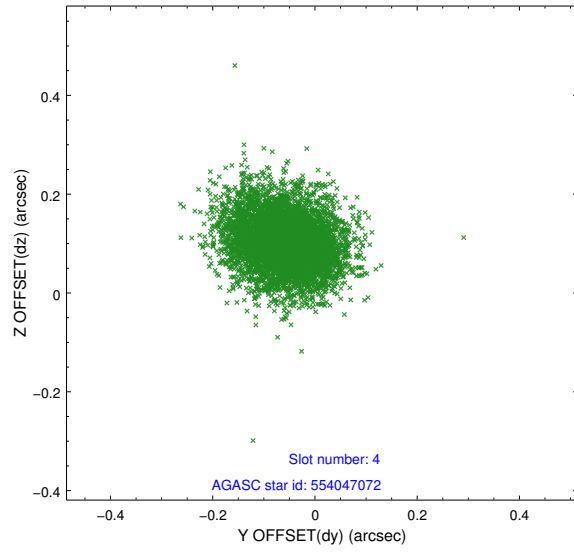
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	2486	0.070	0.148	0.020	0.030	0.000000	0.000000	930.63	-1909.96
1	FID	ACIS-S-2	7.08	2485	-0.166	-0.117	0.017	0.025	0.000000	0.000000	-765.22	-1915.45
2	FID	ACIS-S-6	7.40	2486	0.076	-0.026	0.013	0.018	0.000000	0.000000	395.96	630.56
3	GUIDE	554041968	8.81	4969	-0.037	0.097	0.077	0.126	281.995803	66.548653	-1827.79	-645.89
4	GUIDE	554047072	9.26	4967	-0.060	0.102	0.084	0.134	282.594805	66.308861	-2080.98	-1840.62
5	GUIDE	554174712	7.97	4971	0.174	0.058	0.071	0.115	283.497013	67.121056	1063.70	-1281.91
6	GUIDE	580651008	7.60	4971	0.054	-0.043	0.073	0.133	281.691037	67.771483	1647.94	2088.45
7	GUIDE	554045016	9.17	4963	-0.139	-0.215	0.085	0.136	280.699933	67.308640	-487.97	2358.92

## 2.4 Star Slots

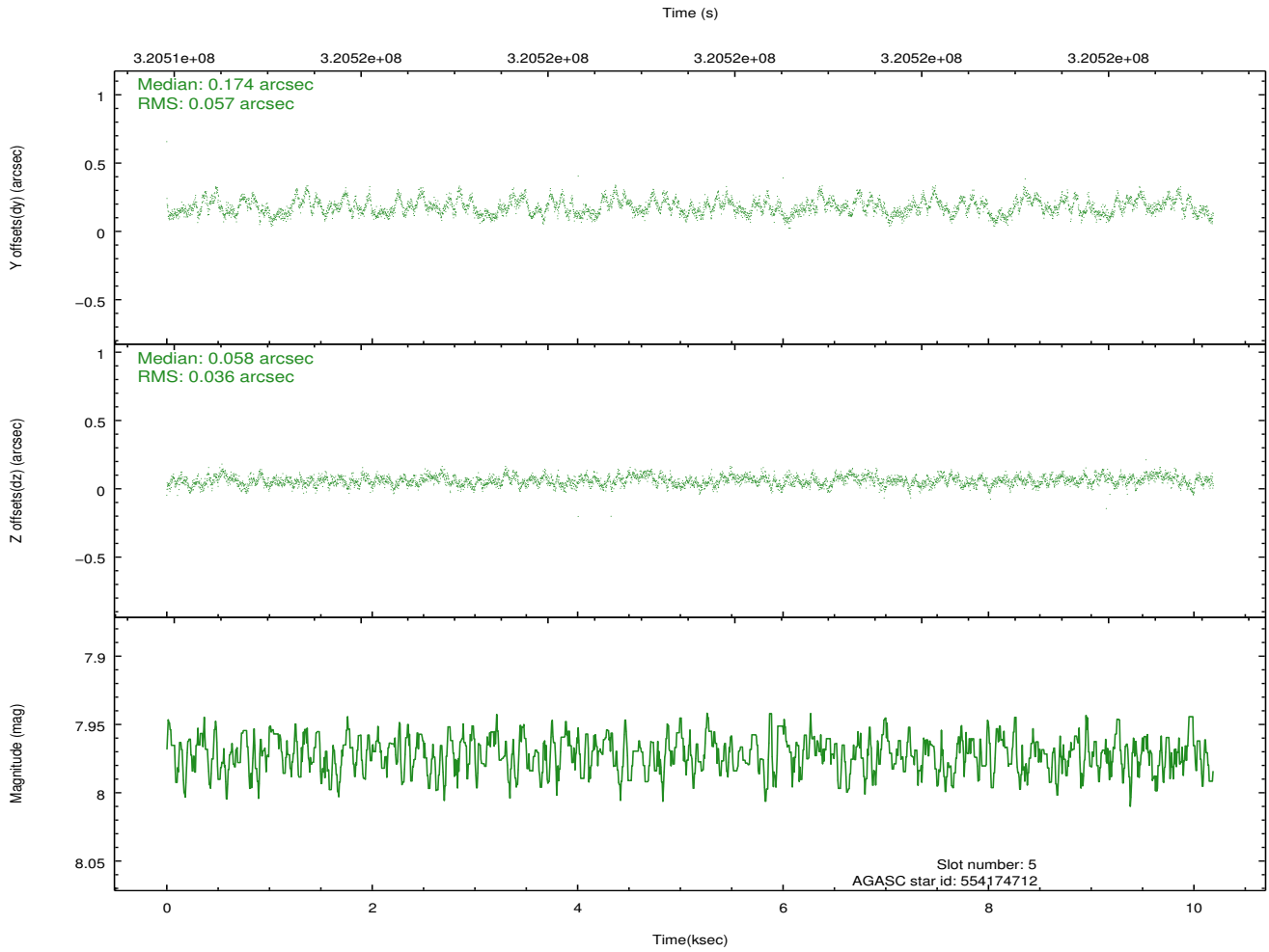
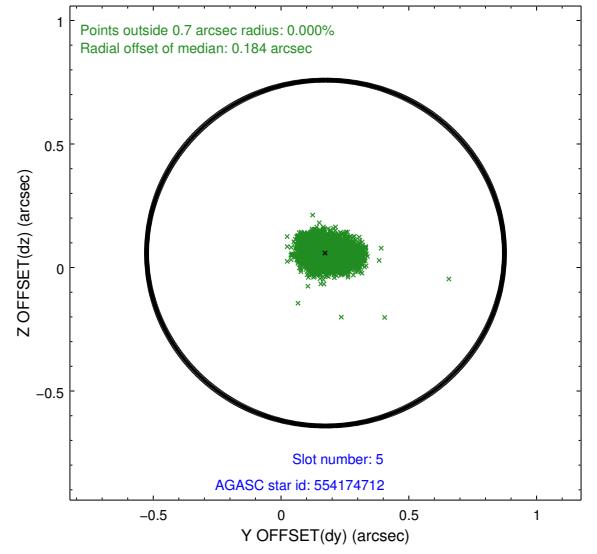
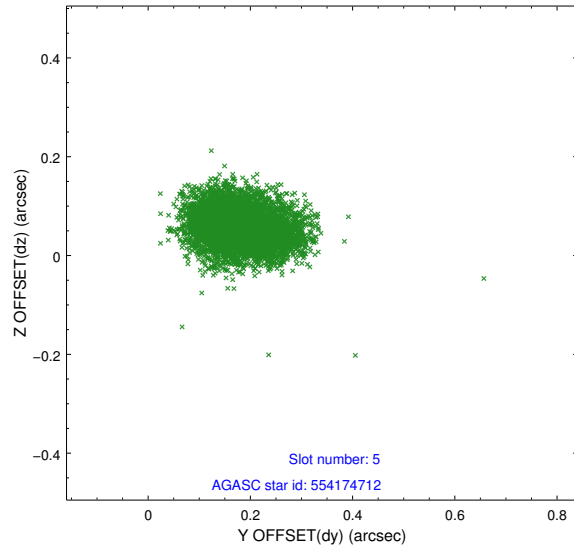
### 2.4.1 Slot 3



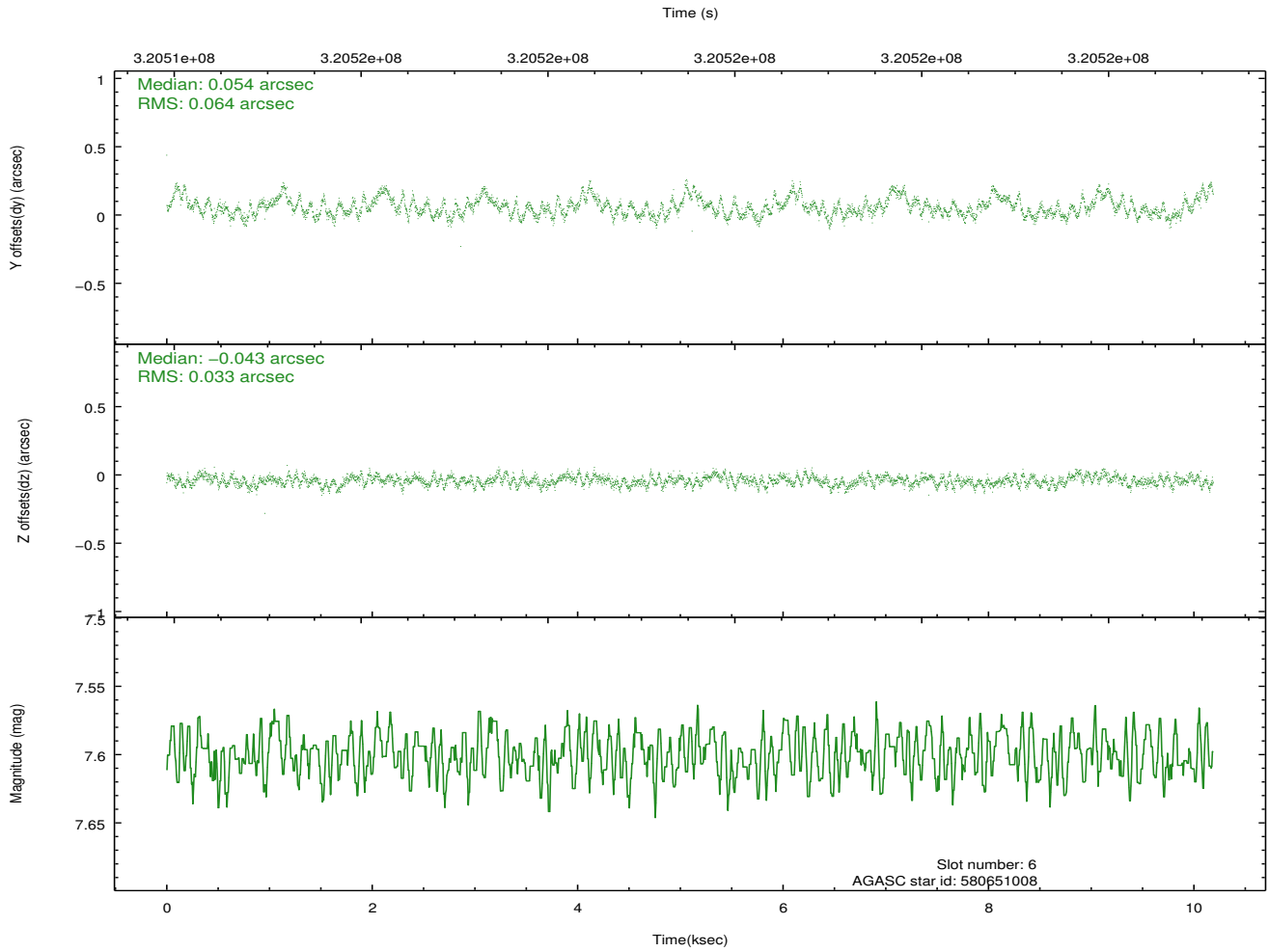
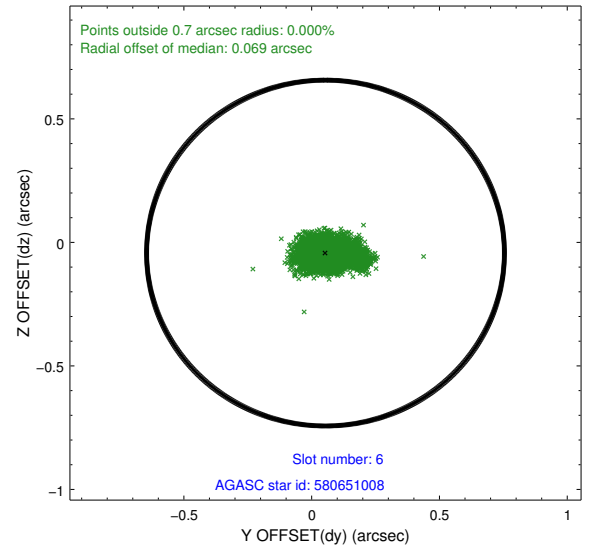
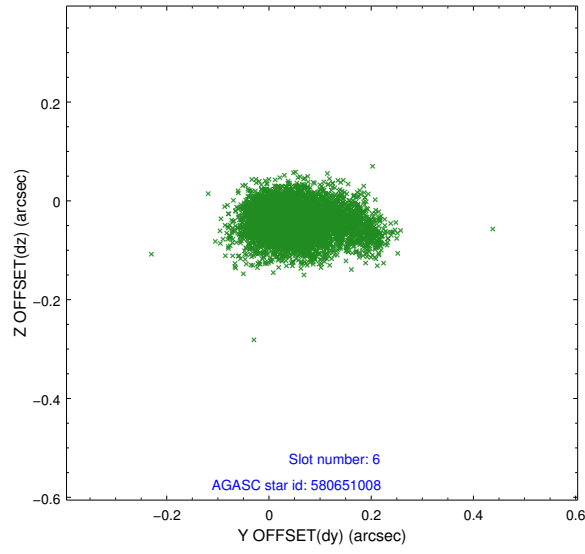
## 2.4.2 Slot 4



### 2.4.3 Slot 5

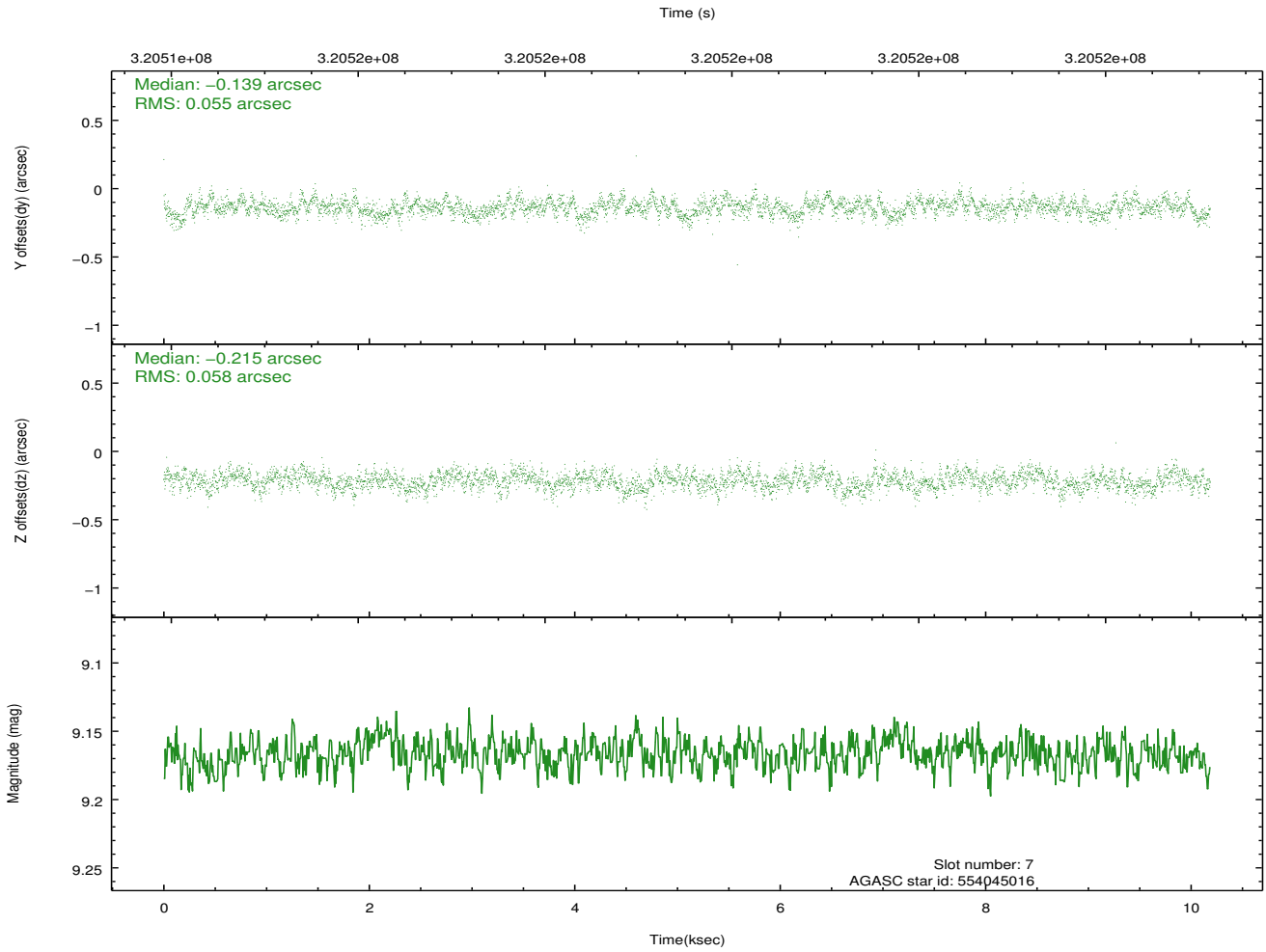
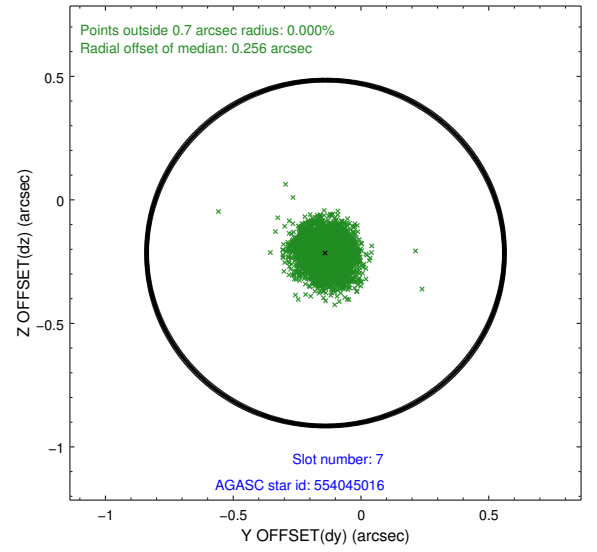
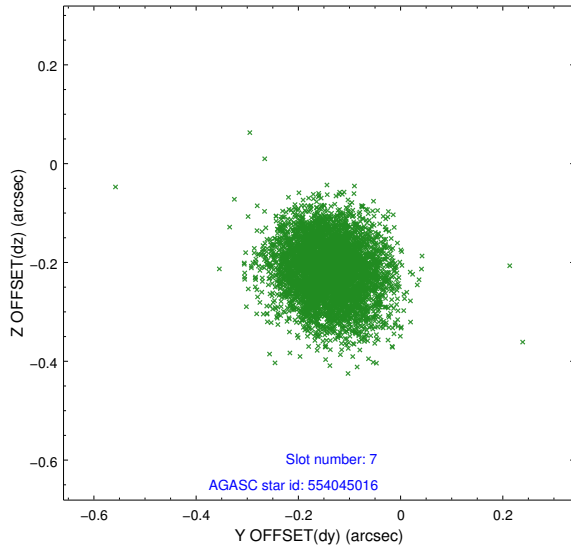


## 2.4.4 Slot 6



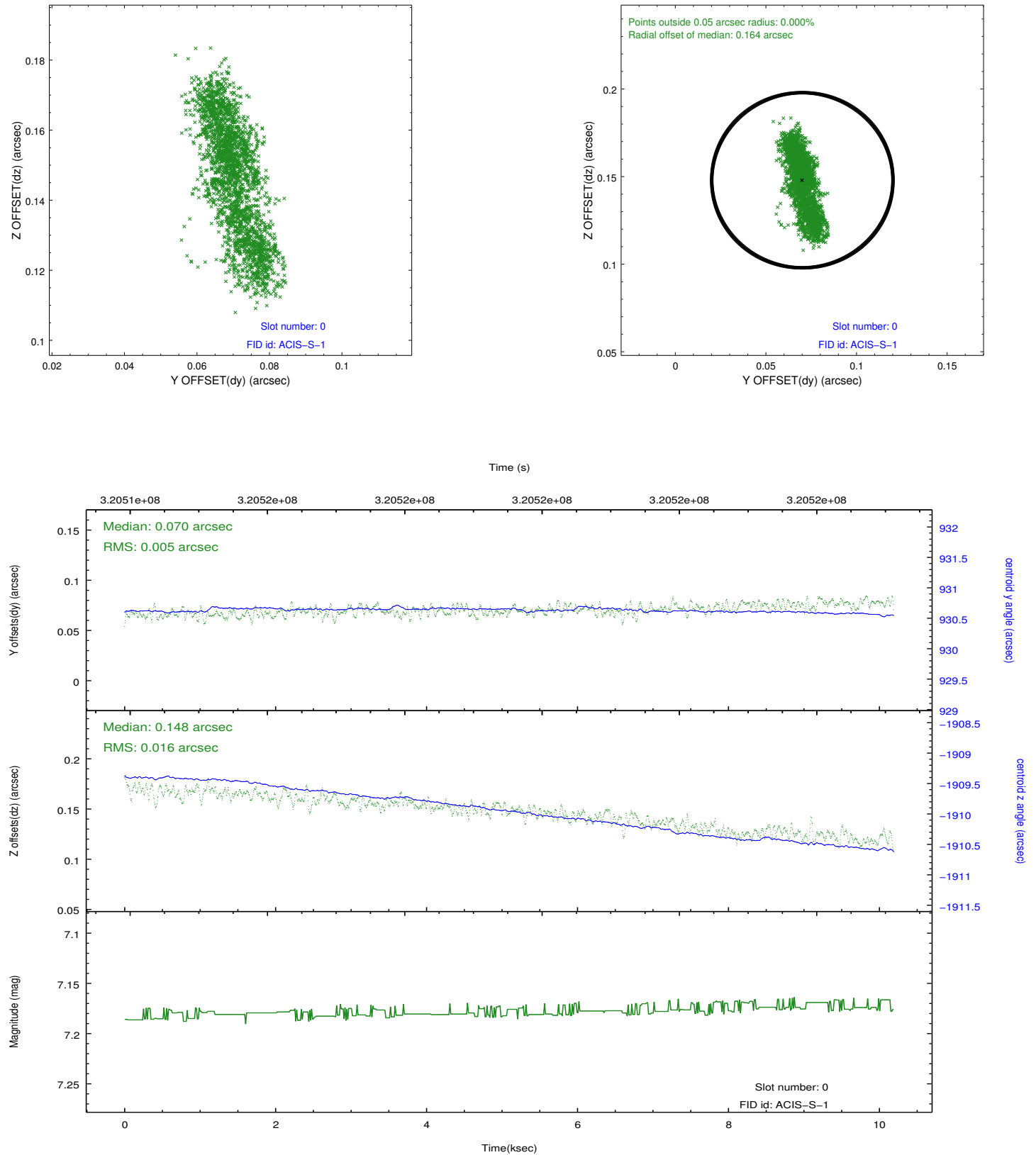


## 2.4.5 Slot 7

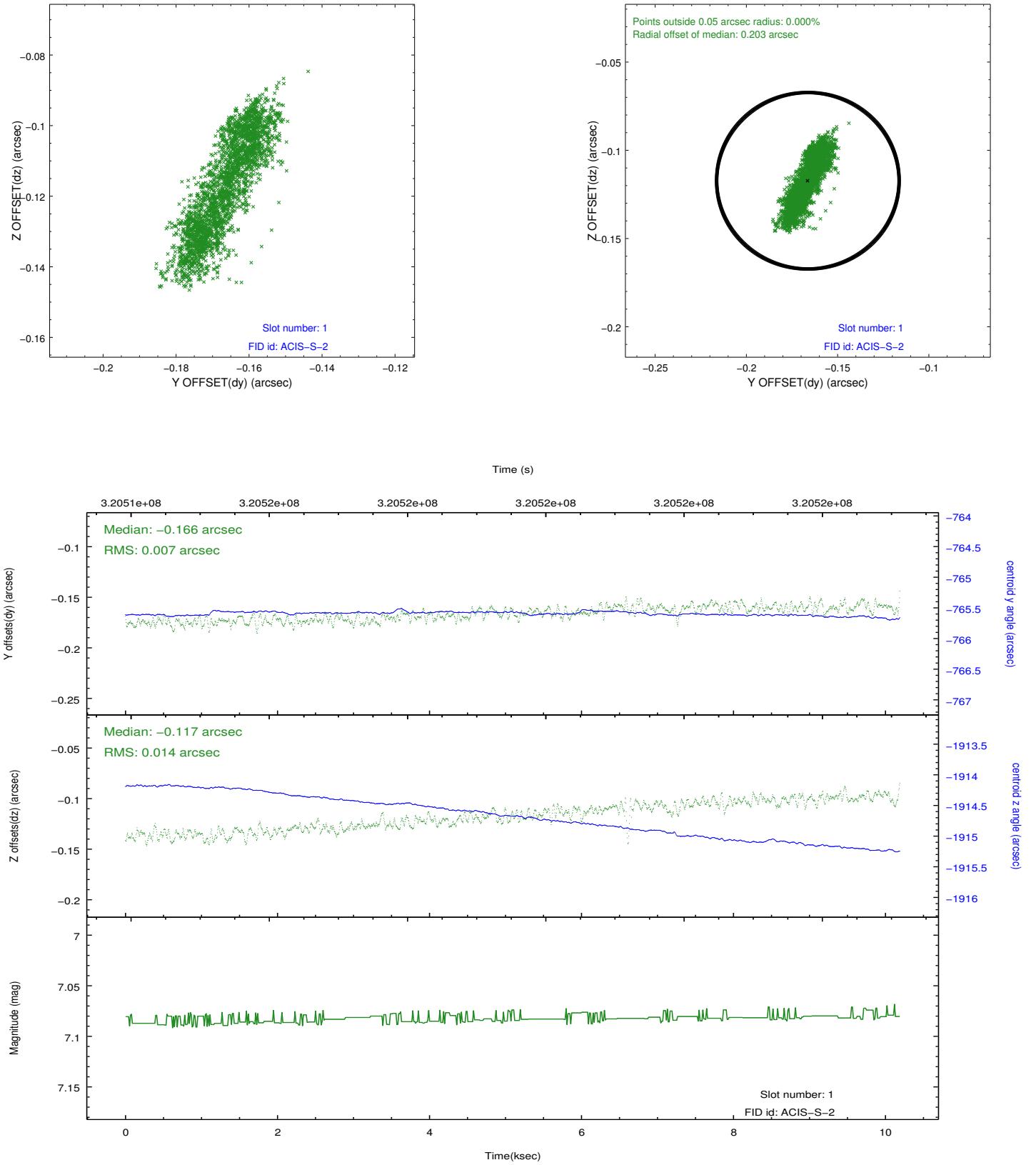


## 2.5 FID Slots

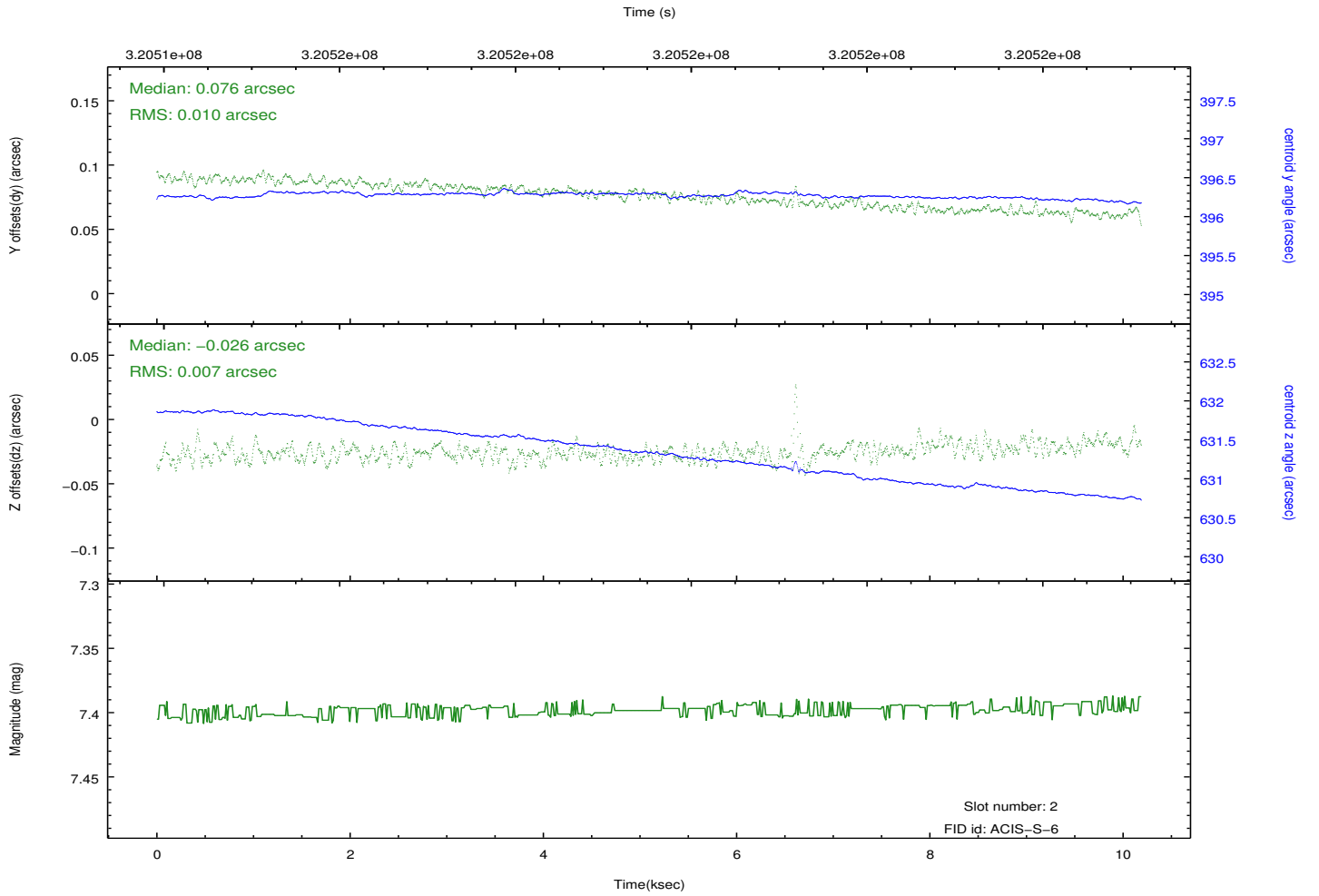
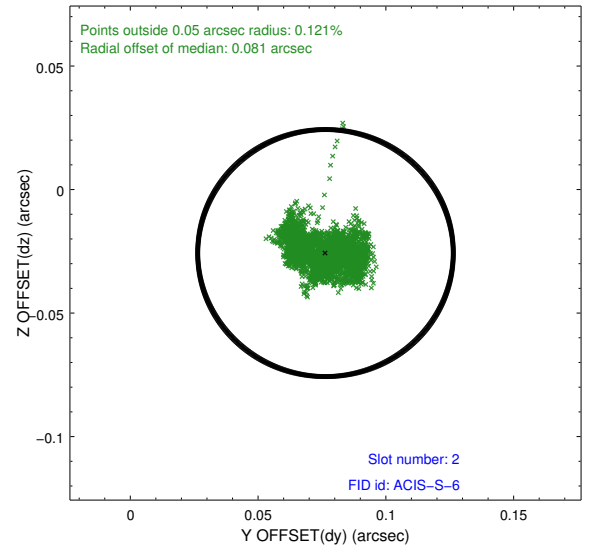
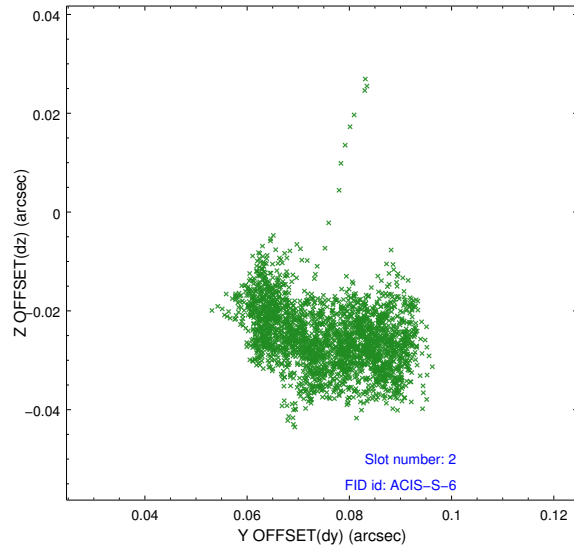
### 2.5.1 Slot 0



## 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)	2012.05.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.1879993

### A.2 Comments

Source moderately piled up. Preferred roll angle constraint met.