

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4669 - L2 Version 4  
Chandra X-Ray Center

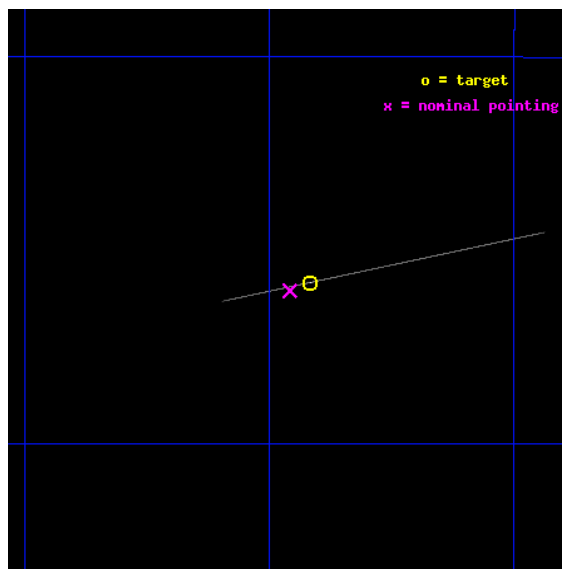
L2 Processing Date : Nov 10 2012

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# 1 Front

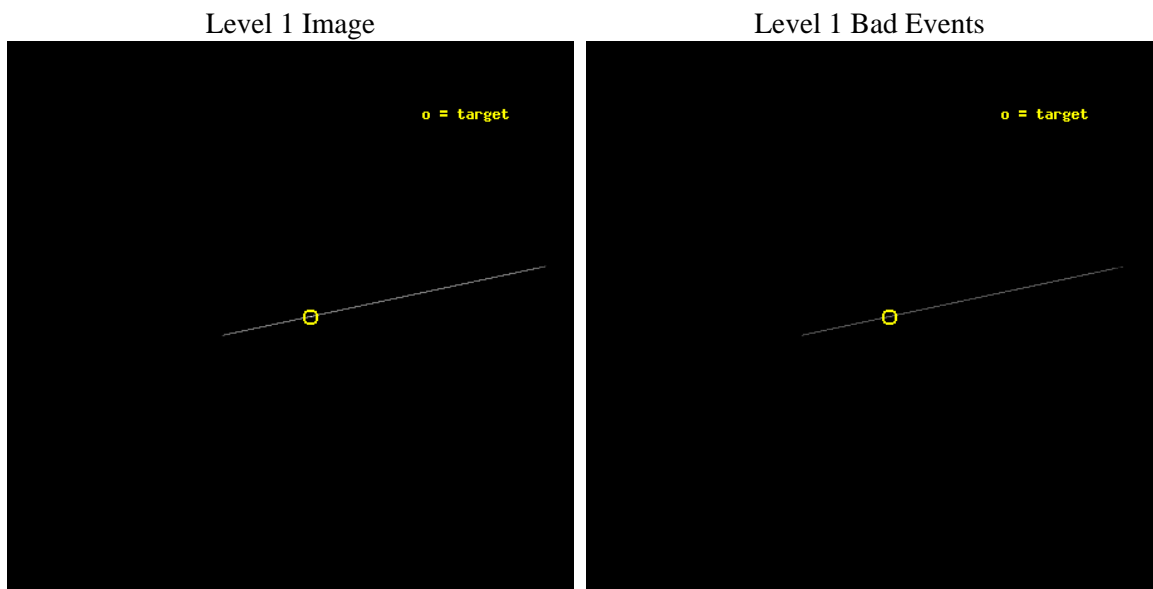
seq_num	500488	Sequence number
obs_id	4669	Observation id
title	Timing the Enigmatic Nearby Neutron Star RX J0720.4-3125	Proposal
observer	Prof. David Kaplan	Principal investigator
object	RX J0720.4-3125	Source name
ra_targ	110.104167	Observer's specified target RA [deg]
dec_targ	-31.430444	Observer's specified target Dec [deg]
ra_nom	110.11457475953	Nominal RA [deg]
dec_nom	-31.43410705678	Nominal Dec [deg]
roll_nom	348.04505566282	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5213.1601776779	Sum of GTIs [s]
livetime	5192.7962707338	Livetime [s]
ontime7	5213.1601776779	Sum of GTIs [s]
l2events	27729	Number of level 2 events



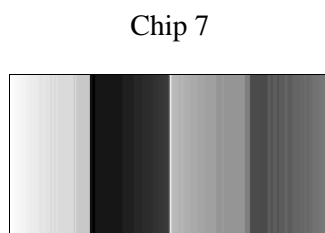
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5213.1601776779	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime7	5213.1601776779	Sum of GTIs [s]
date	2012-11-10T21:59:46	Date and time of file creation	l1events	36058	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	36058
rejected events	7516
rejected %	20%

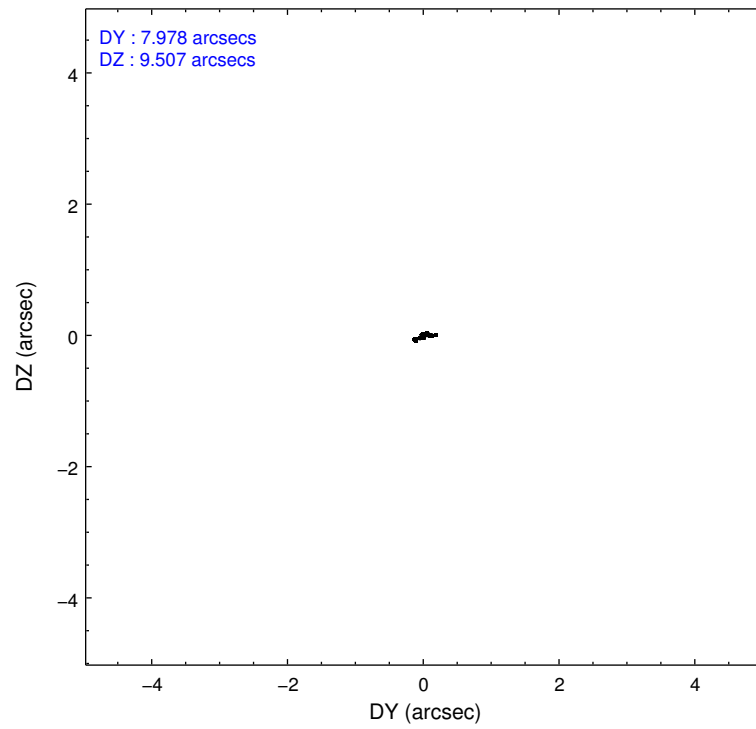
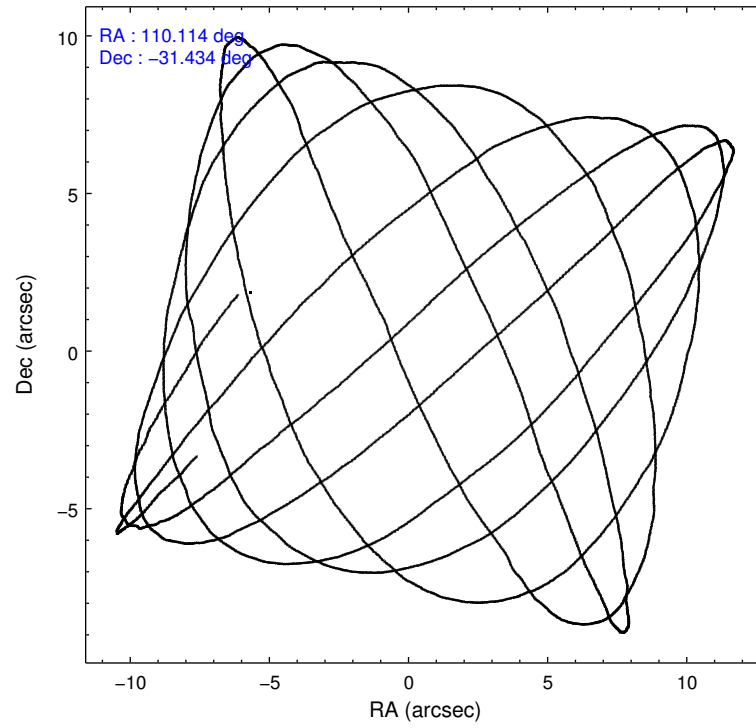
	<b>ccd 7</b>
grade 0 events	8244
	22%
grade 1 events	74
	0%
grade 2 events	7097
	19%
grade 3 events	2367
	6%
grade 4 events	2458
	6%
grade 5 events	4506
	12%
grade 6 events	11312
	31%
grade 7 events	0
	0%

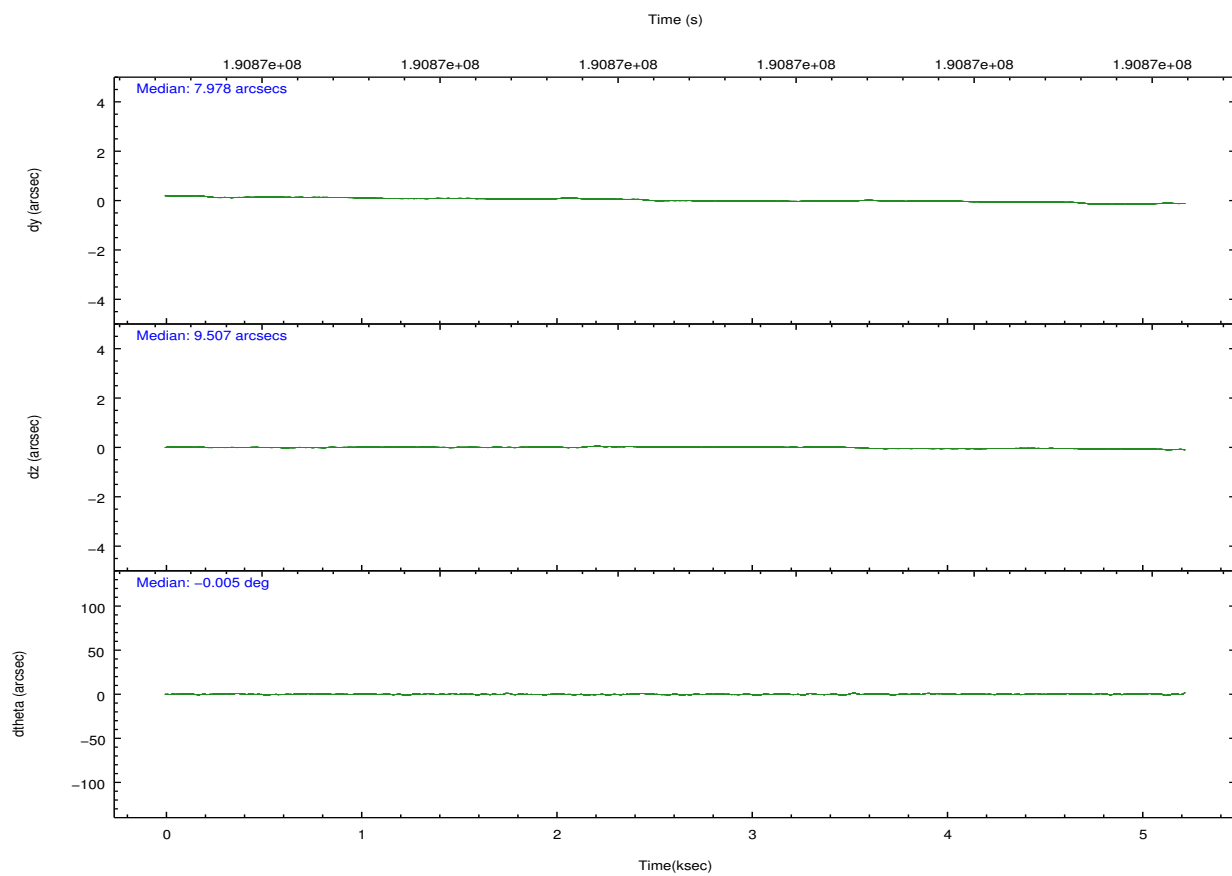
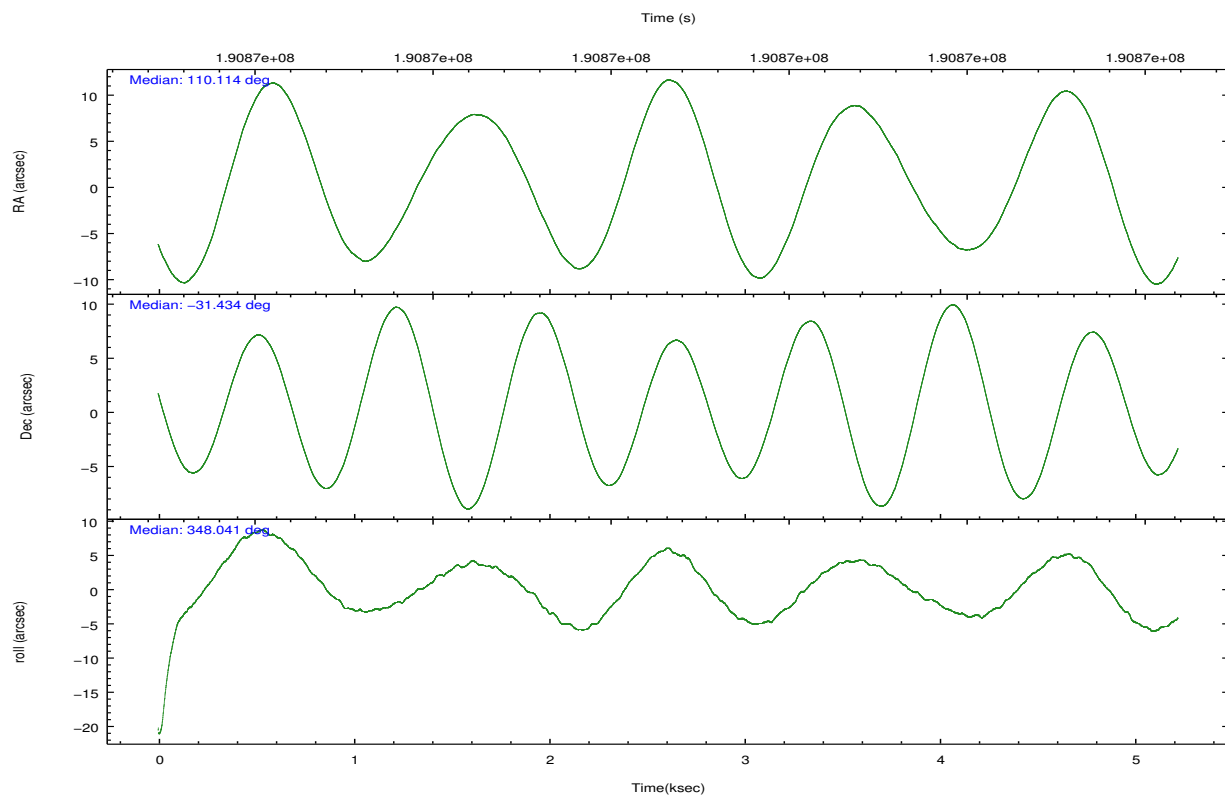


## 2.2 Compared Parameters

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	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	110.084456	110.1145747595302	Subarray requested	NONE	NONE
[deg] Pointing Dec	-31.442857	-31.43410705678036	Alternating exposures requested	N	N
[deg] Pointing Roll	347.872715	348.0450556628194	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	190865929.184000	190864949.716			
Observation start date	2004-01-19T02:17:45	2004-01-19T02:02:29			
[s] Observation end time (MET)	190870929.184000	190871996.59131			
Observation end date	2004-01-19T03:41:05	2004-01-19T03:59:56			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect



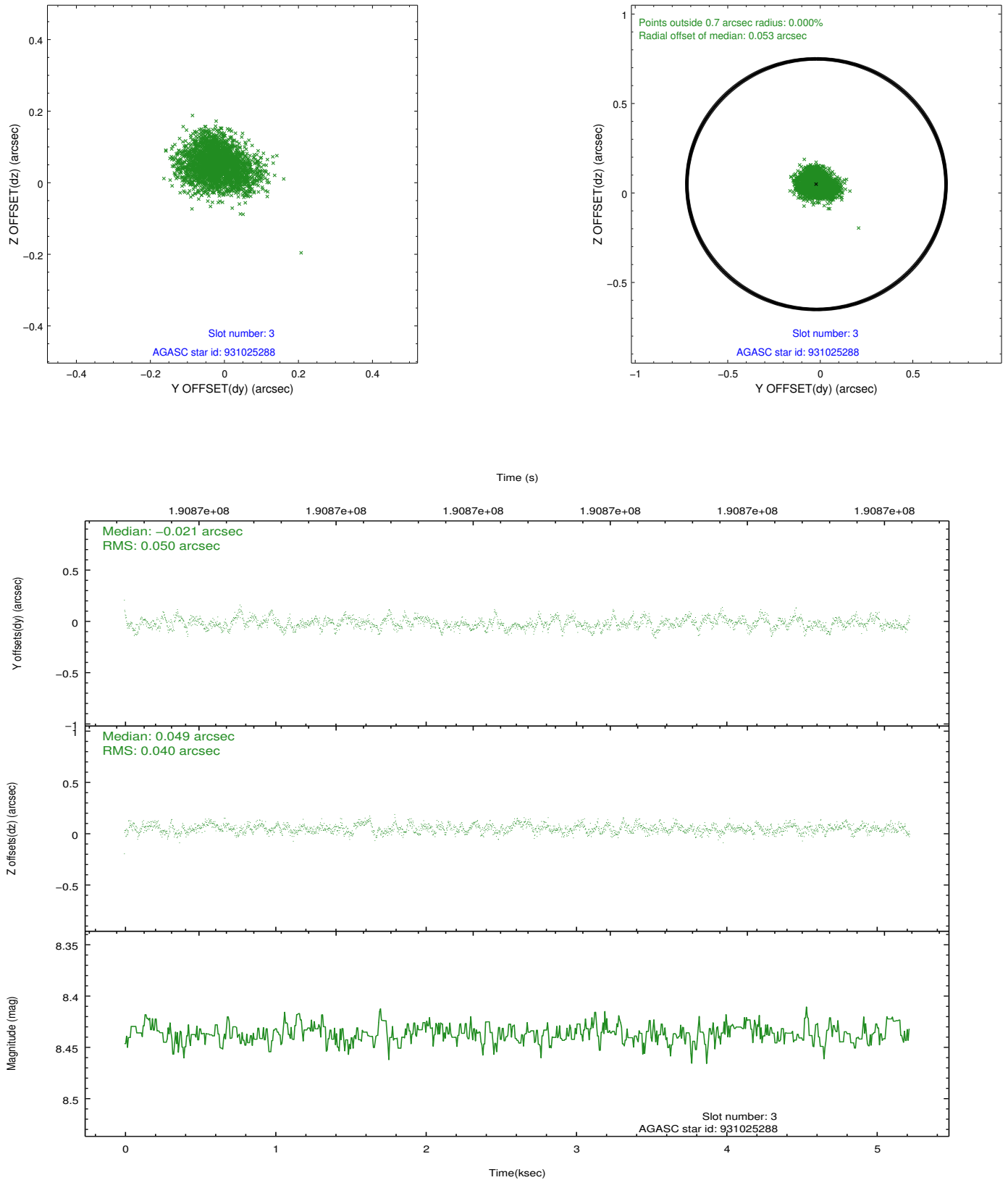


### Slot Statistics

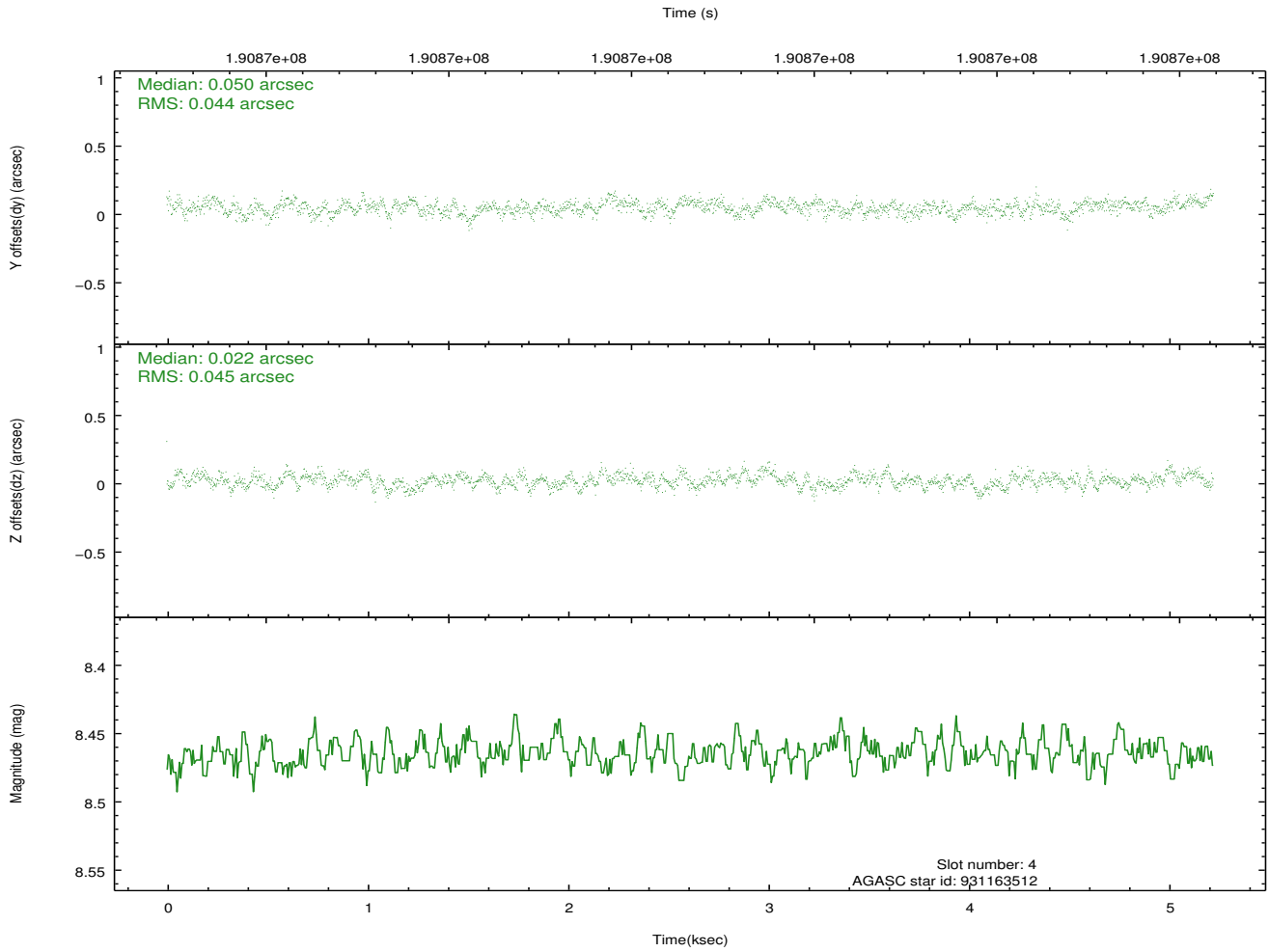
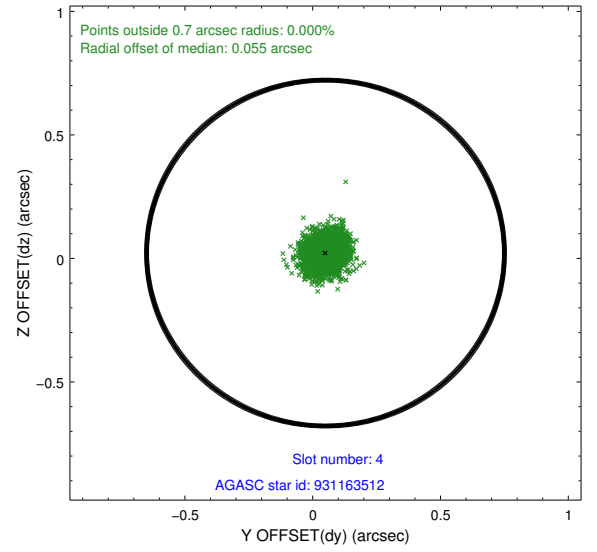
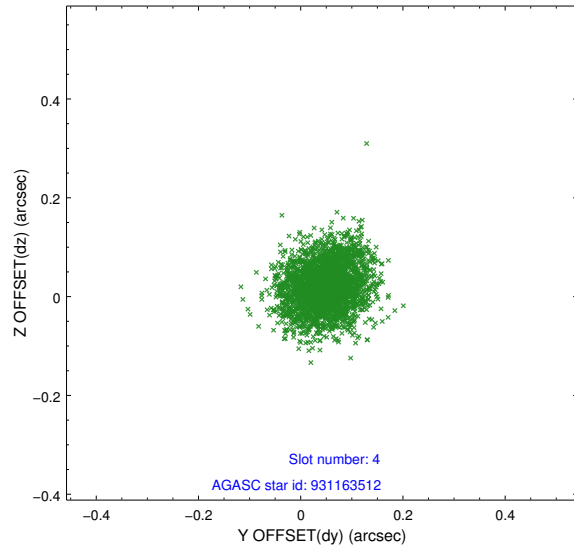
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	1270	0.029	-0.017	0.007	0.012	0.000000	0.000000	935.28	-1726.32
1	FID	ACIS-S-4	7.20	1269	0.074	0.002	0.007	0.012	0.000000	0.000000	2153.38	176.65
2	FID	ACIS-S-5	7.23	1272	-0.130	0.027	0.007	0.013	0.000000	0.000000	-1812.26	171.59
3	GUIDE	931025288	8.44	2542	-0.021	0.049	0.068	0.111	109.511084	-30.937793	-2111.67	1401.45
4	GUIDE	931163512	8.46	2542	0.050	0.022	0.067	0.107	110.894384	-31.299941	2329.24	1018.55
5	GUIDE	931695048	7.40	2542	0.070	-0.032	0.078	0.129	110.648539	-32.046020	2141.63	-1764.88
6	GUIDE	931019296	8.66	2543	-0.037	0.035	0.062	0.097	109.471771	-31.694370	-1642.23	-1285.40
7	GUIDE	931160352	8.64	2543	-0.065	-0.077	0.076	0.122	110.268138	-30.864891	117.45	2152.85

## 2.4 Star Slots

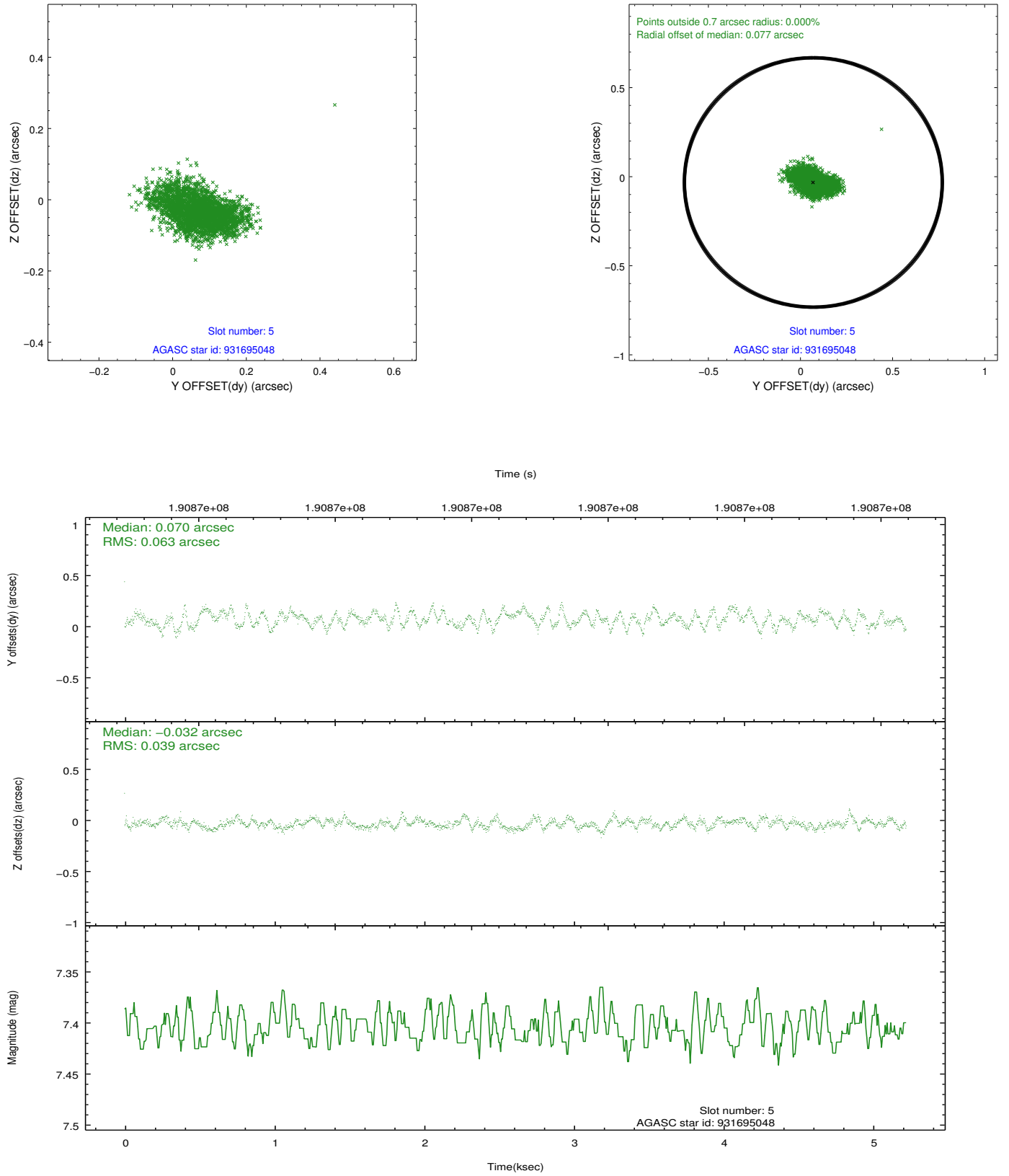
### 2.4.1 Slot 3



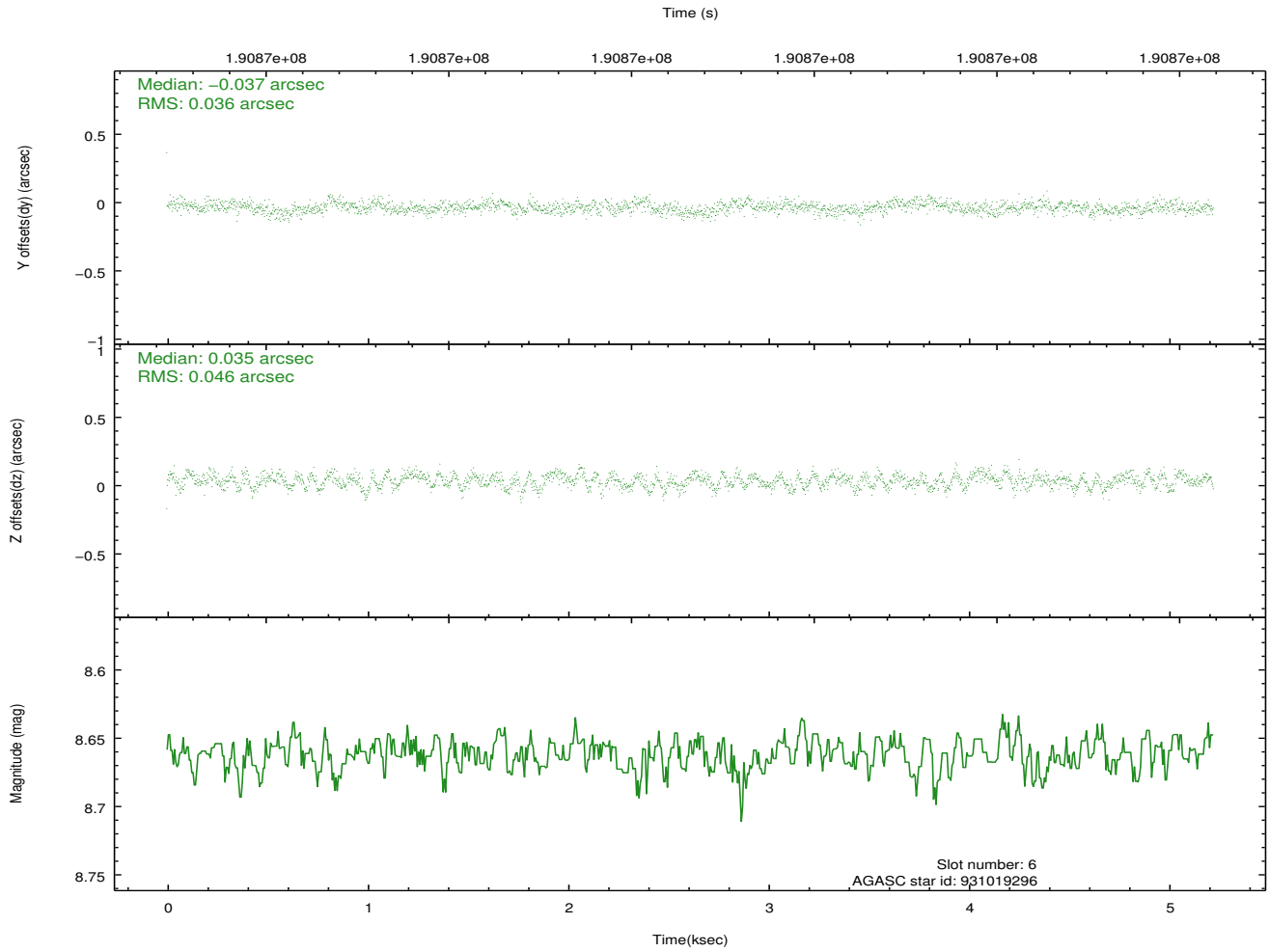
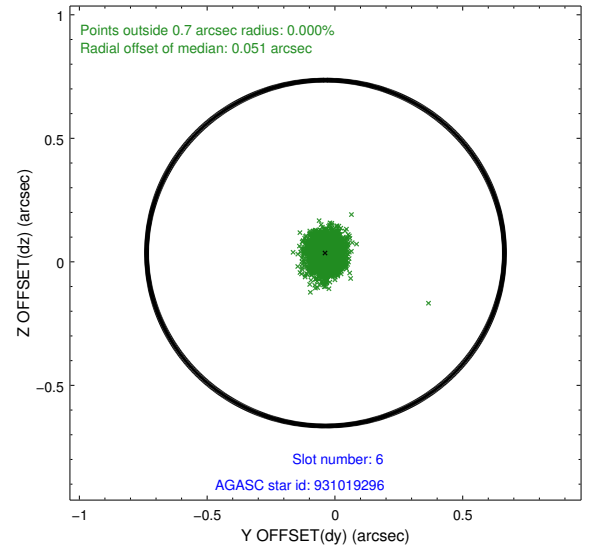
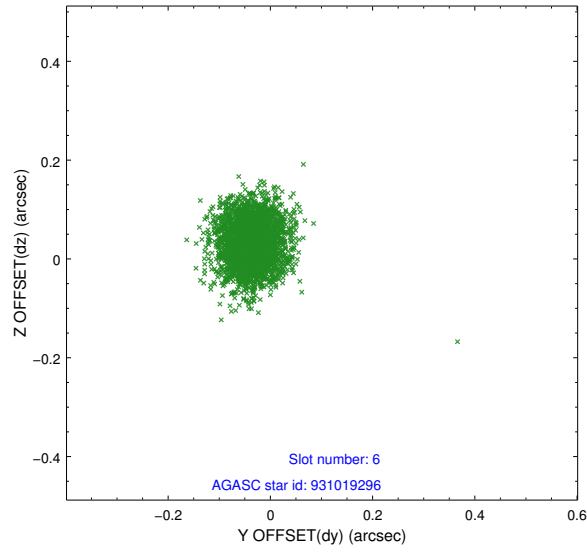
## 2.4.2 Slot 4



### 2.4.3 Slot 5

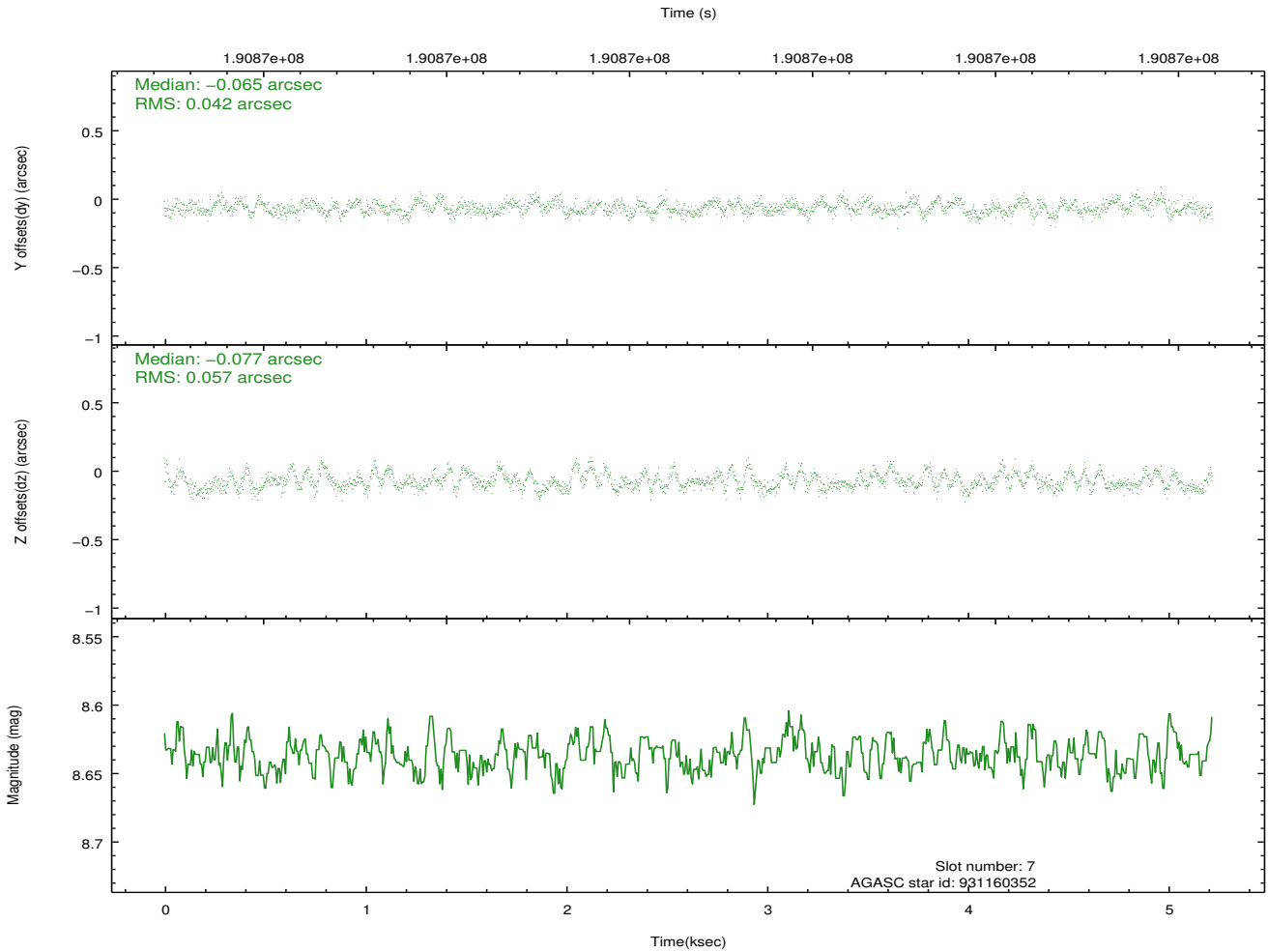
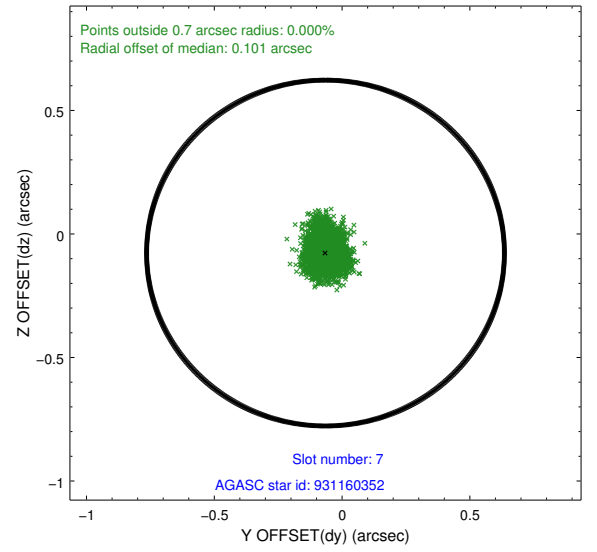
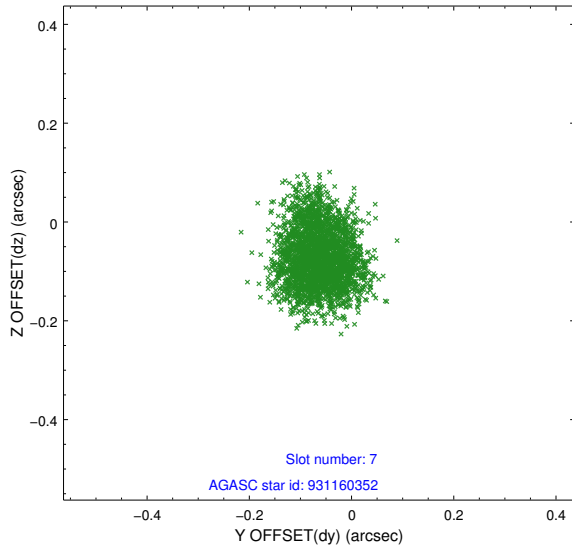


## 2.4.4 Slot 6



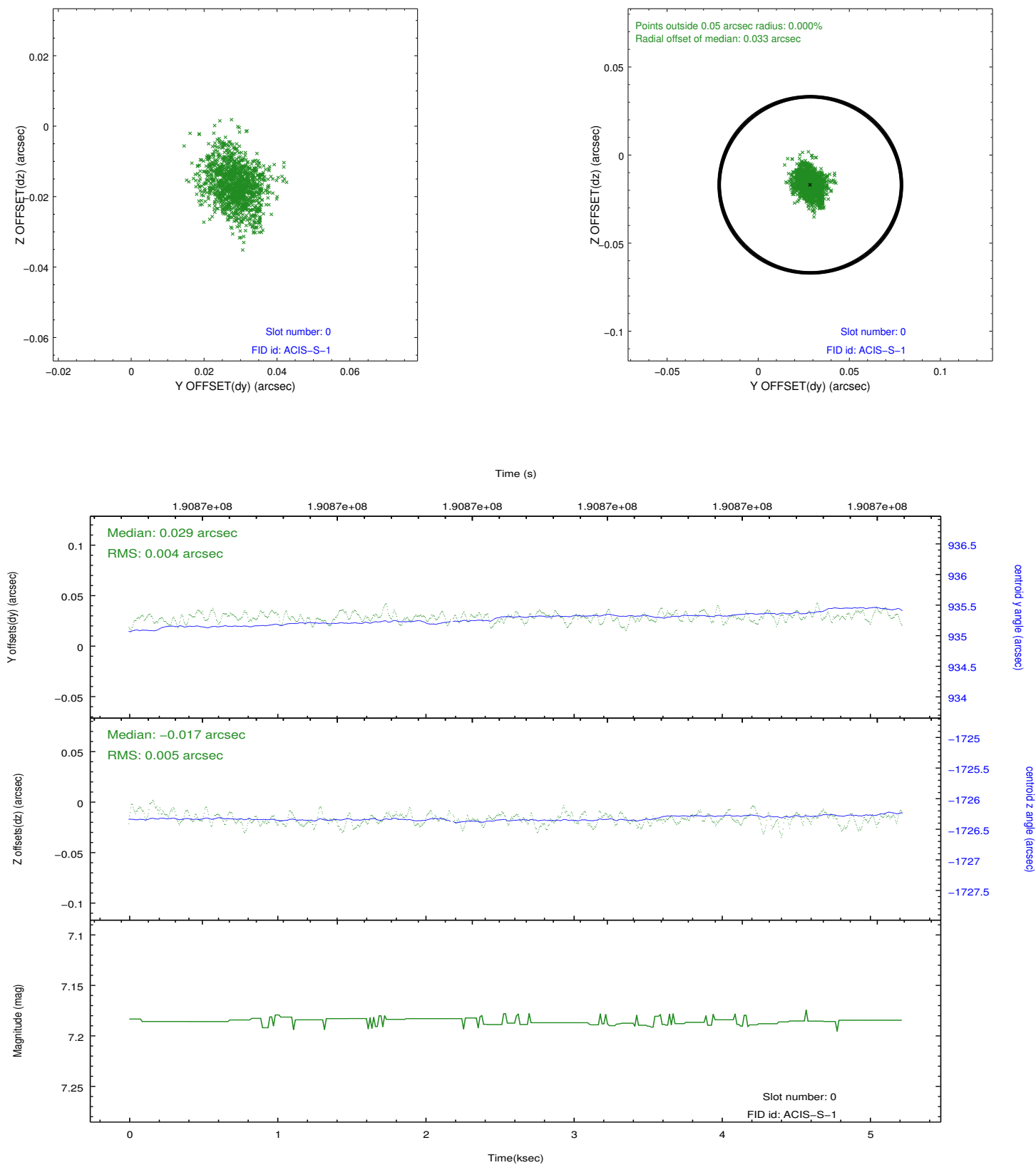


## 2.4.5 Slot 7

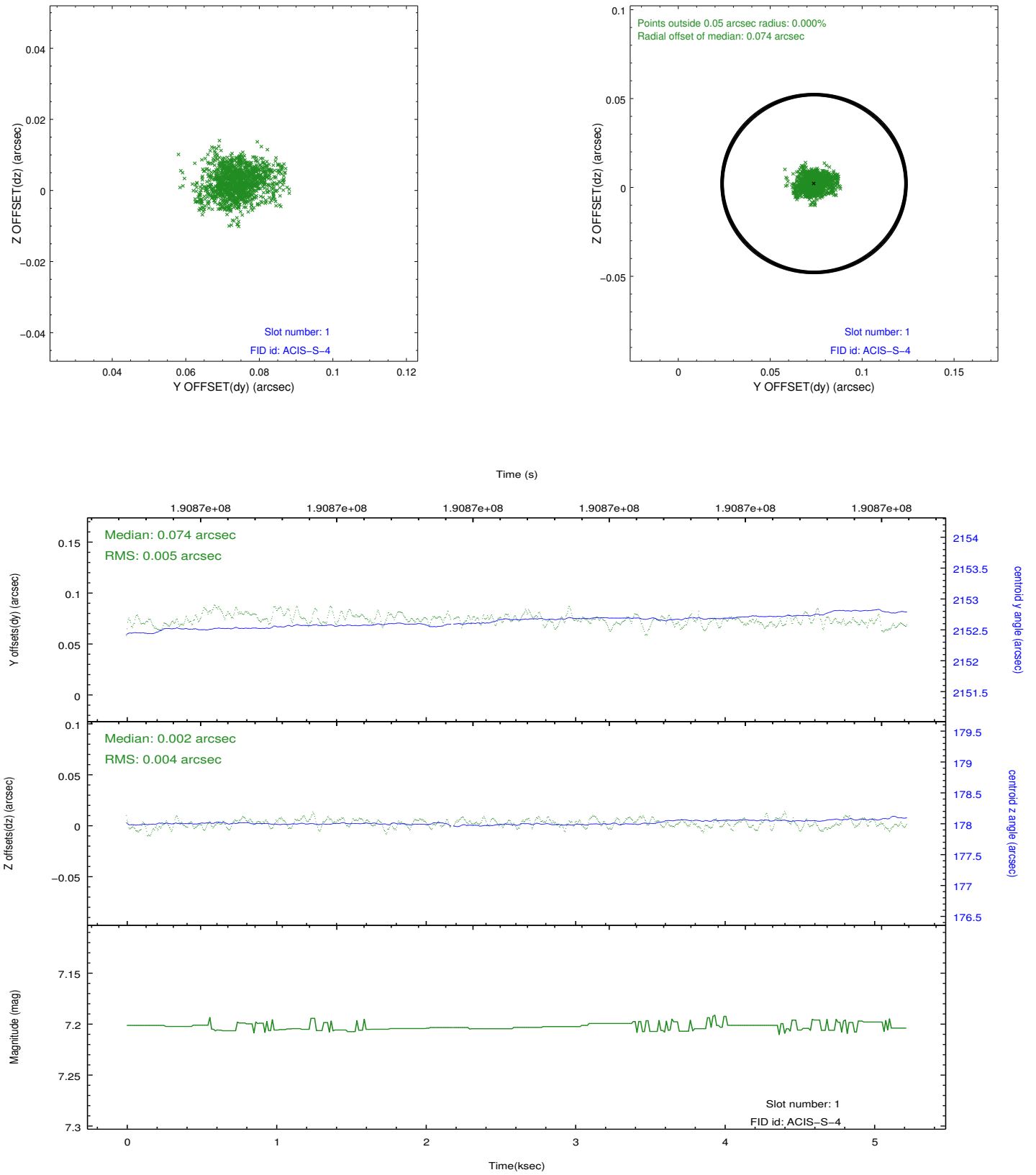


## 2.5 FID Slots

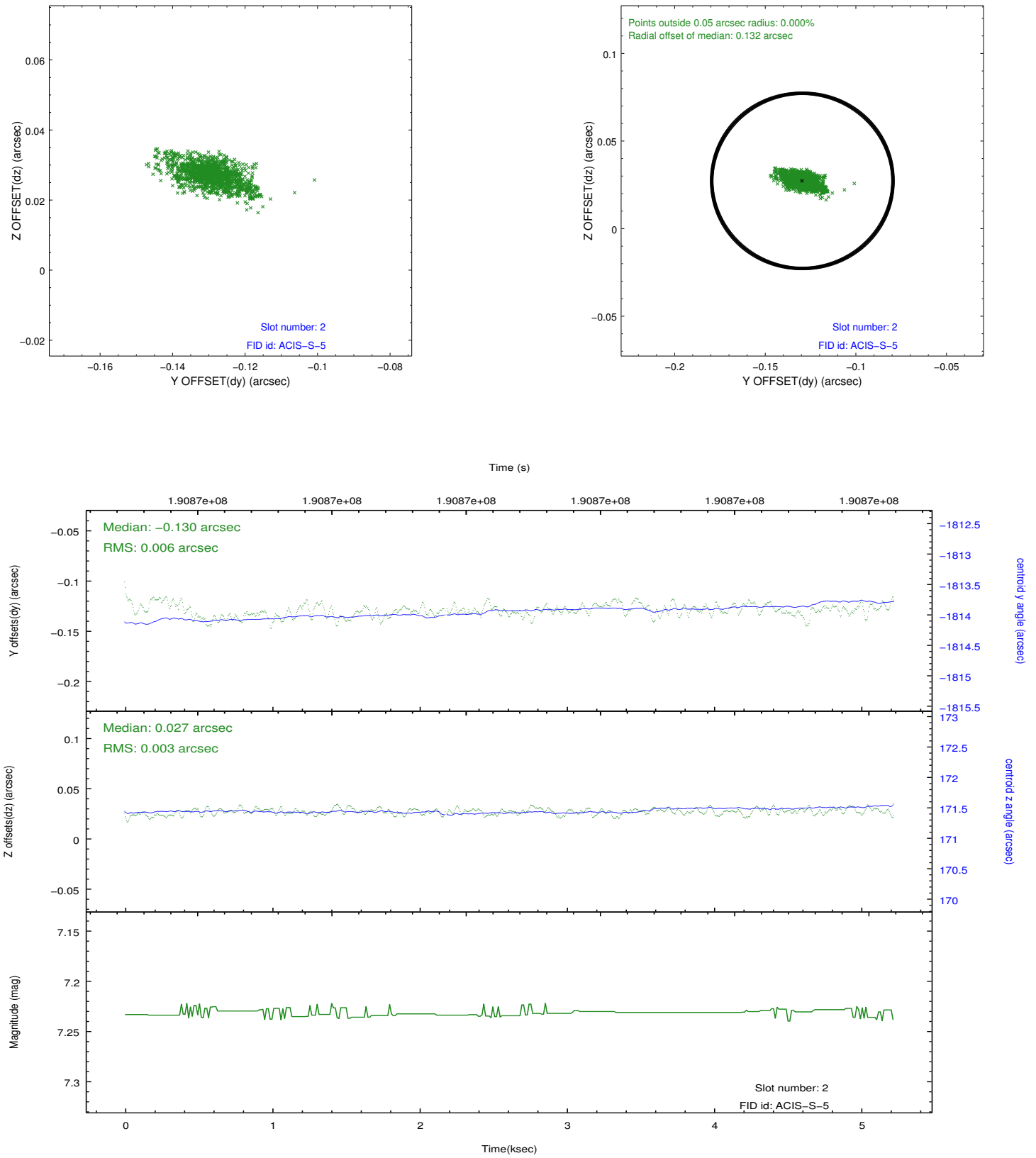
### 2.5.1 Slot 0



## 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)	2012.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.216

### A.2 Comments