

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 2820 - L2 Version 001  
Chandra X-Ray Center

L2 Processing Date : Sep 30 2006

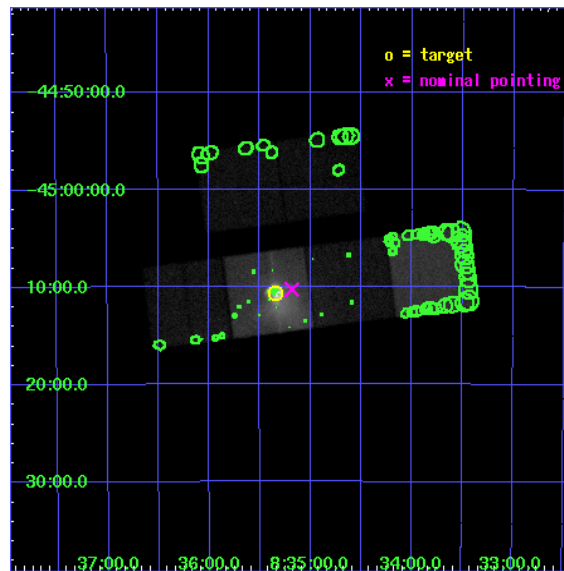
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# 1 Front

seq_num	500270
obs_id	2820
title	THE DYNAMICAL PULSAR-WIND NEBULA IN THE VELA SNR
observer	Dr. George Pavlov
object	VELA PWN
dtcycle	0
cycle	P
ra_targ	128.83625
dec_targ	-45.176667
ra_nom	128.79573064104
dec_nom	-45.171210373147
roll_nom	172.63917689605
revision	2
ontime	19753.599926412
livetime	19503.467949954
ontime2	19750.359065831
ontime3	19750.35893622
ontime5	19753.599926412
ontime6	19753.599926412
ontime7	19753.599926412
ontime8	19750.359065801
l2events	527703

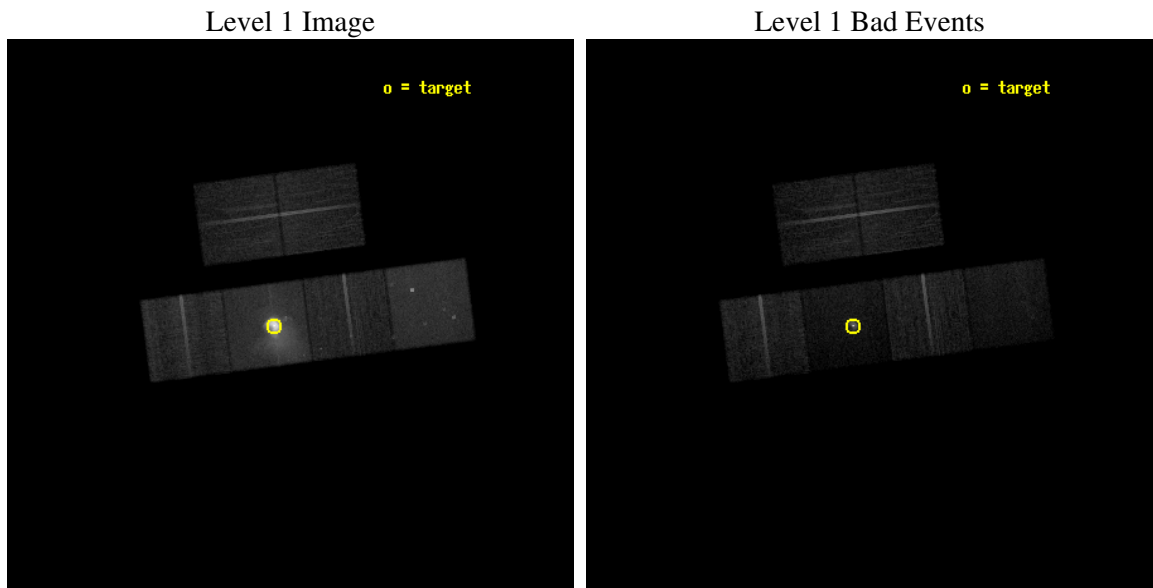




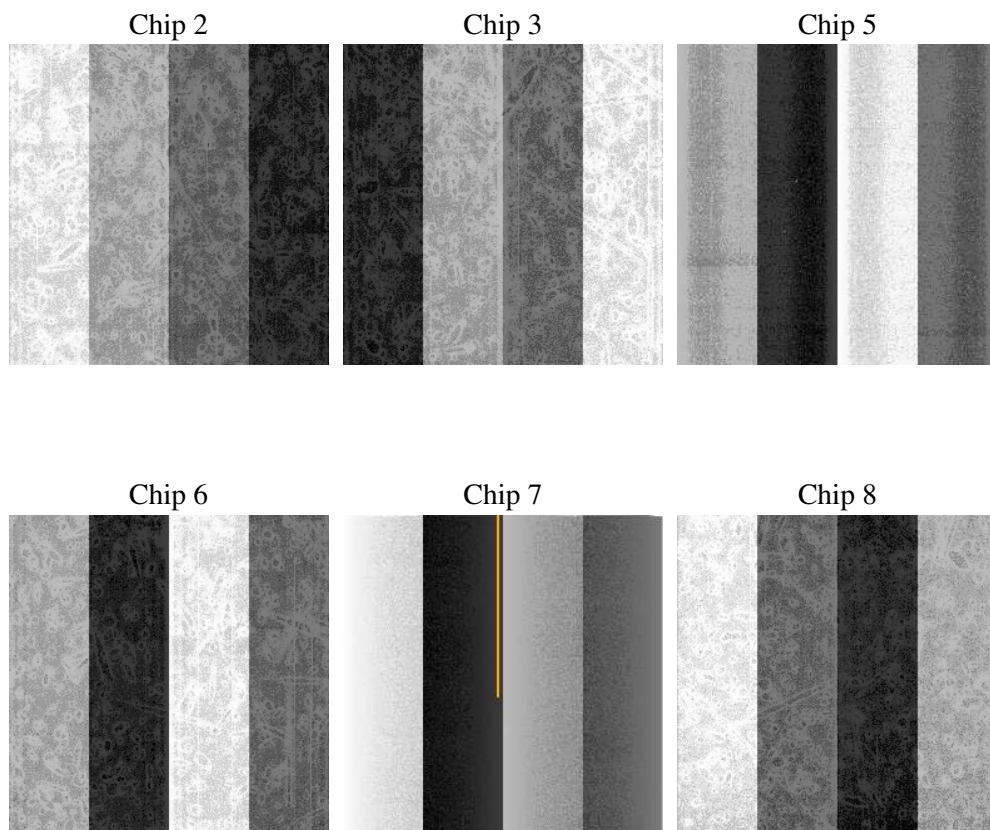
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias





### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.3
date	2006-09-30T10:00:53
revision	2

sched_exp_time	19629.648000
ontime	20110.407567859
ontime2	20107.166707277
ontime3	20107.166577667
ontime5	20110.407567859
ontime6	20110.407567859
ontime7	20110.407567859
ontime8	20110.407727301
l1events	1025276

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	108688	103440	158245	119153	403377	132373
rejected events	88027	81491	55887	87002	60684	89439
rejected %	80%	78%	35%	73%	15%	67%

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	13986	15528	30273	23690	99640	23193
	12%	15%	19%	19%	24%	17%
grade 1 events	92	90	164	122	611	112
	0%	0%	0%	0%	0%	0%
grade 2 events	2901	2594	29997	3682	94394	7456
	2%	2%	18%	3%	23%	5%
grade 3 events	1291	1226	4740	1559	35709	3359
	1%	1%	2%	1%	8%	2%
grade 4 events	1248	1187	4558	1525	34370	3138
	1%	1%	2%	1%	8%	2%
grade 5 events	2677	2972	6572	3221	10150	4469
	2%	2%	4%	2%	2%	3%
grade 6 events	1743	1764	34550	2253	82622	7207
	1%	1%	21%	1%	20%	5%
grade 7 events	84750	78079	47391	83101	45881	83439
	77%	75%	29%	69%	11%	63%

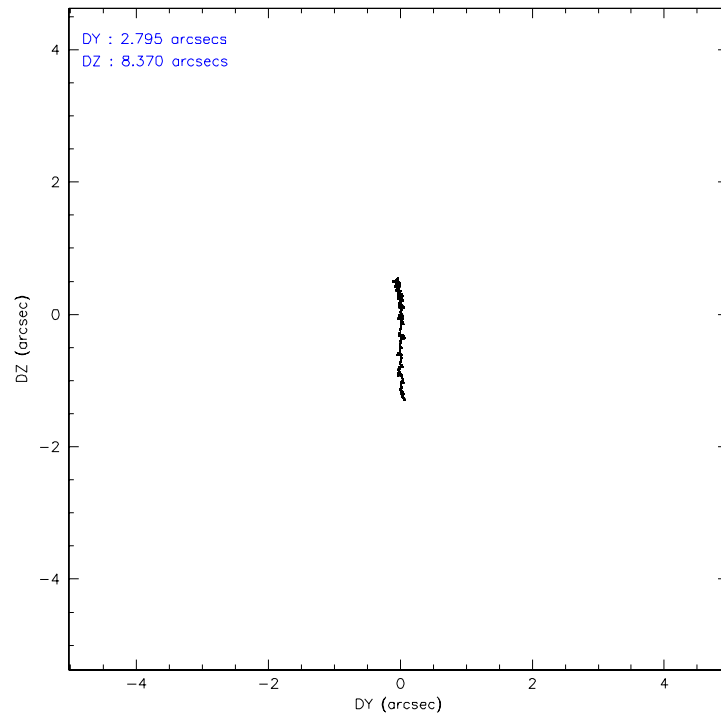
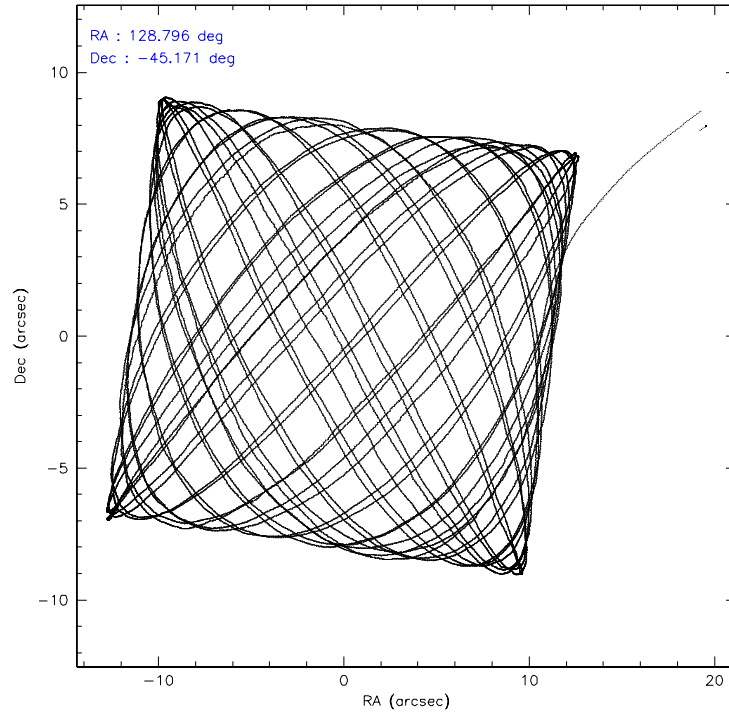


## 2.2 Compared Parameters

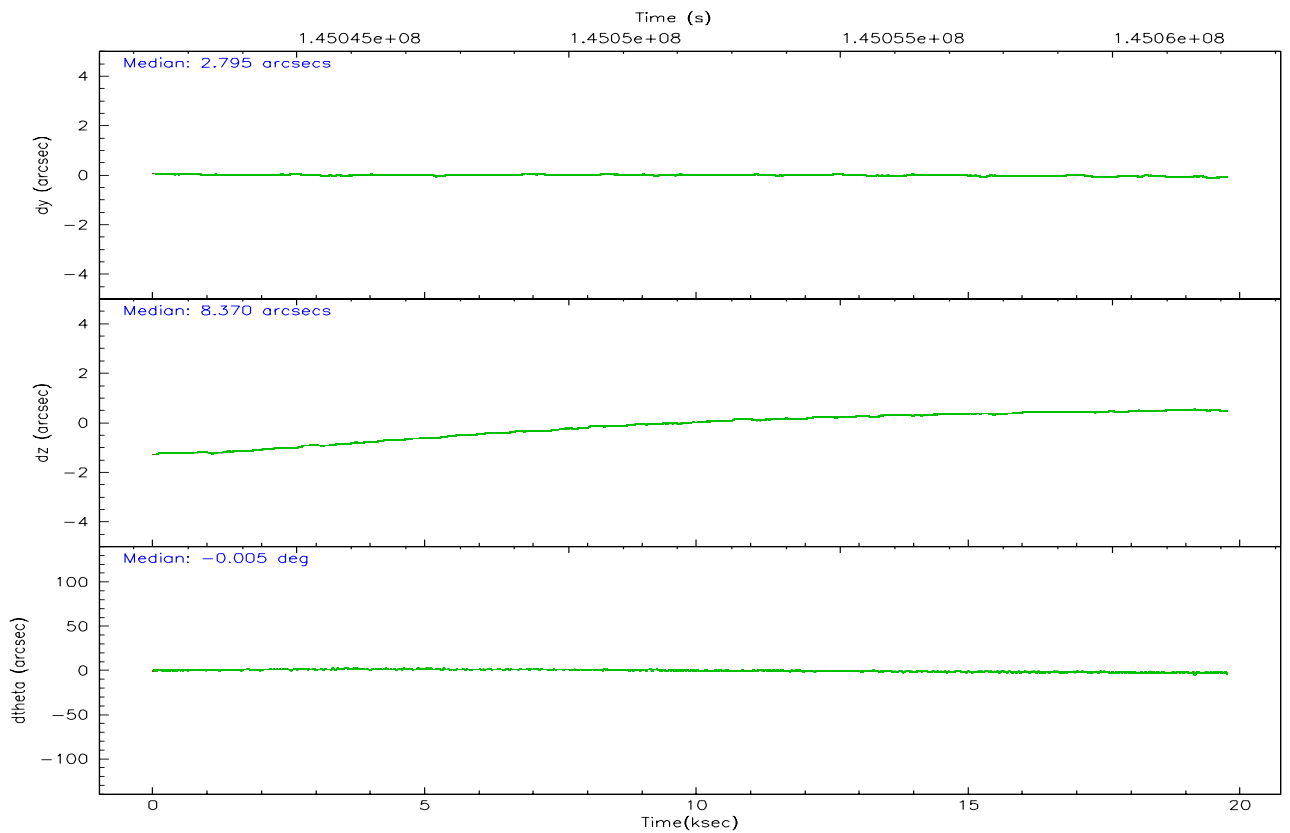
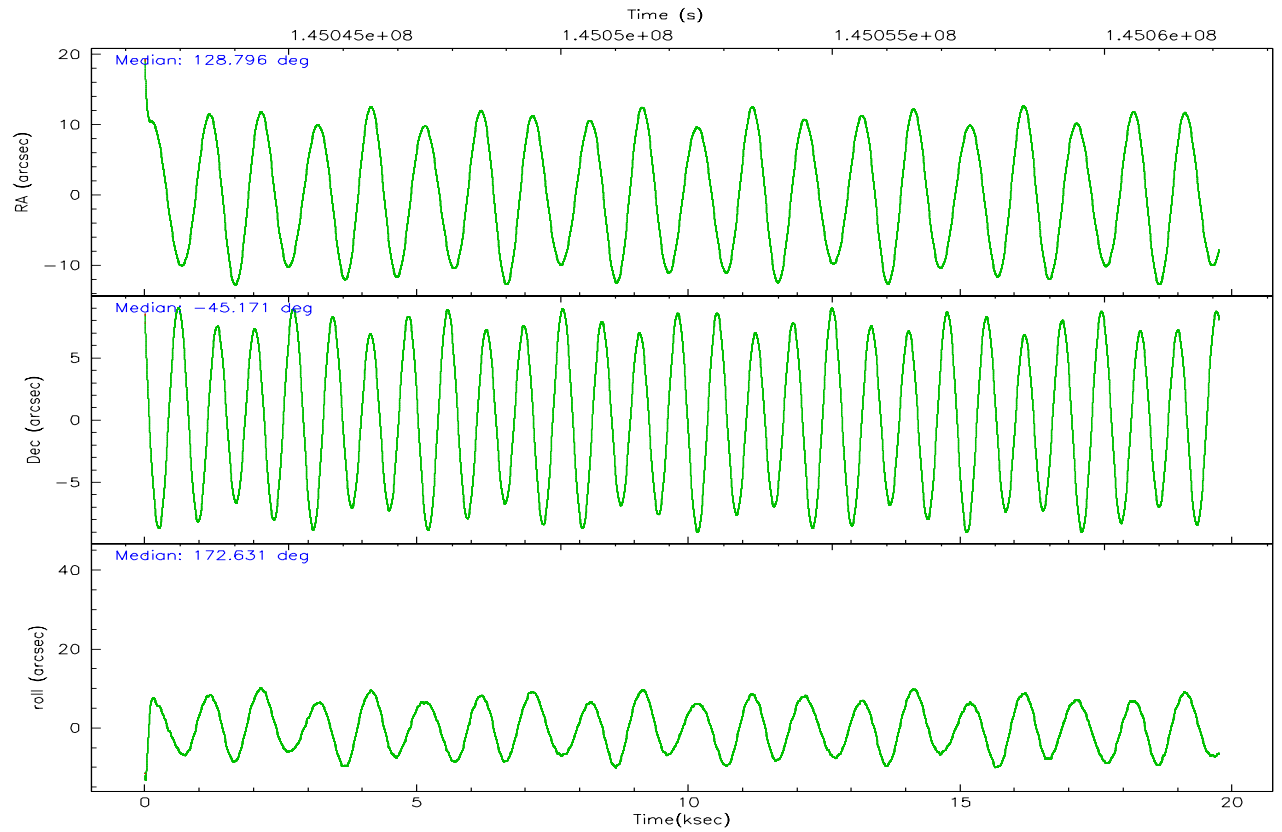
Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	128.831183	128.7957306410433	Subarray requested	NONE	NONE
Pointing Dec	-45.160401	-45.17121037314716	Alternating exposures requested	N	N
Pointing Roll	172.507707	172.6391768960457	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	145042489.184000	145041271.12681			
Observation start date	2002-08-06T17:33:45	2002-08-06T17:14:31			
Observation end time	145062118.184000	145062433.27768			
Observation end date	2002-08-06T23:00:54	2002-08-06T23:07:13			
Read mode	TIMED	TIMED			



## 2.3 Aspect









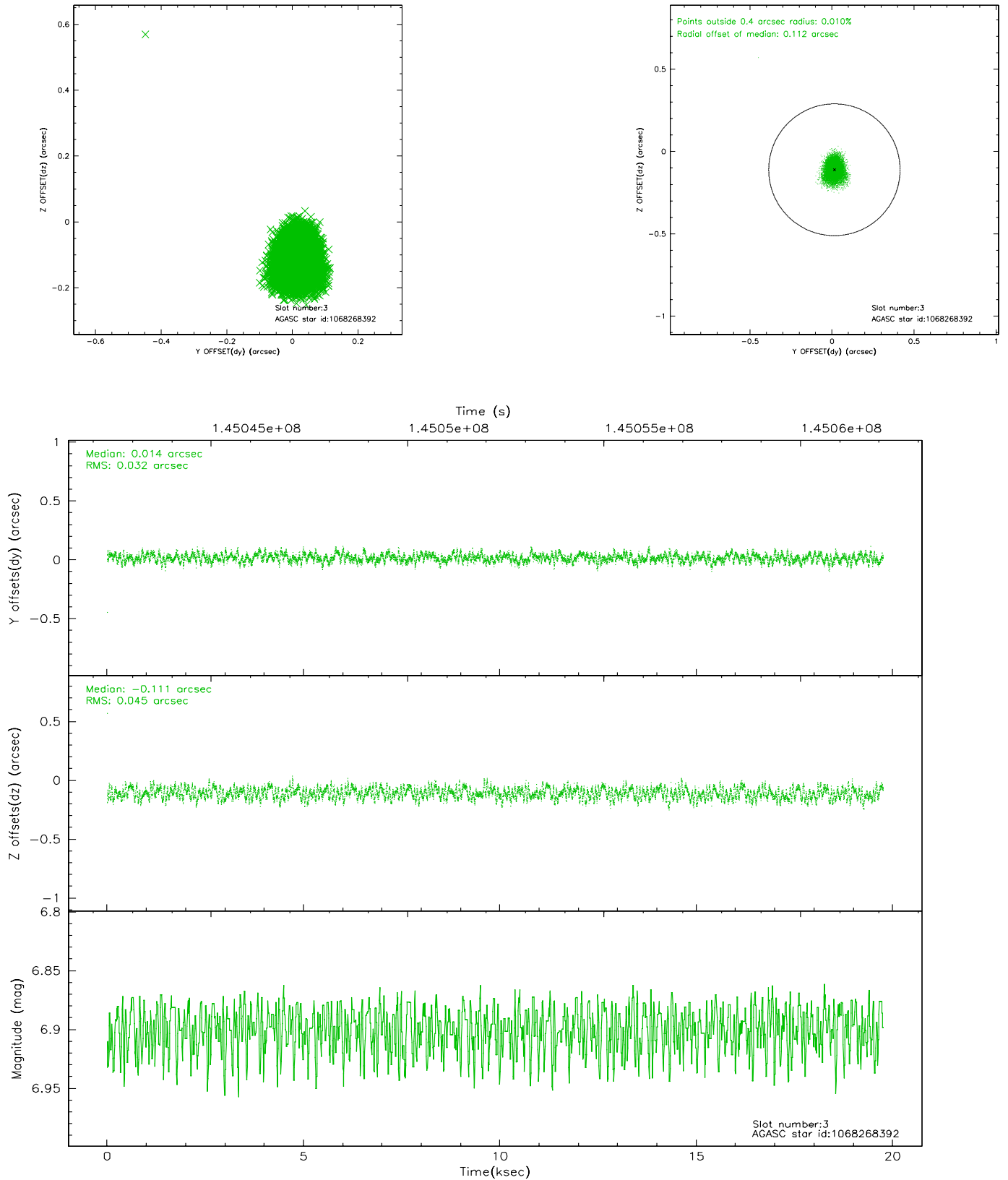
### Slot Statistics

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	4821	0.006	0.032	0.027	0.056	0.000000	0.000000	940.60	-1725.03
1	FID	ACIS-S-5	7.24	4819	0.020	0.031	0.009	0.015	0.000000	0.000000	-1808.25	172.37
2	FID	ACIS-S-6	7.36	4820	-0.047	-0.053	0.018	0.058	0.000000	0.000000	405.92	816.45
3	GUIDE	1068268392	6.90	9641	0.014	-0.111	0.059	0.092	128.257754	-45.752904	1149.78	2308.34
4	GUIDE	1068376536	7.64	9640	0.011	-0.025	0.052	0.085	129.556408	-45.593502	-2014.99	1316.28
5	GUIDE	1005869048	8.23	9641	-0.125	0.151	0.060	0.099	128.429058	-44.495949	1336.17	-2233.42
6	GUIDE	1005861048	8.41	9636	0.050	0.033	0.078	0.120	128.669106	-44.528323	710.33	-2200.94
7	GUIDE	1068399176	9.09	9635	0.044	-0.047	0.068	0.113	129.539137	-45.338406	-1859.96	409.57



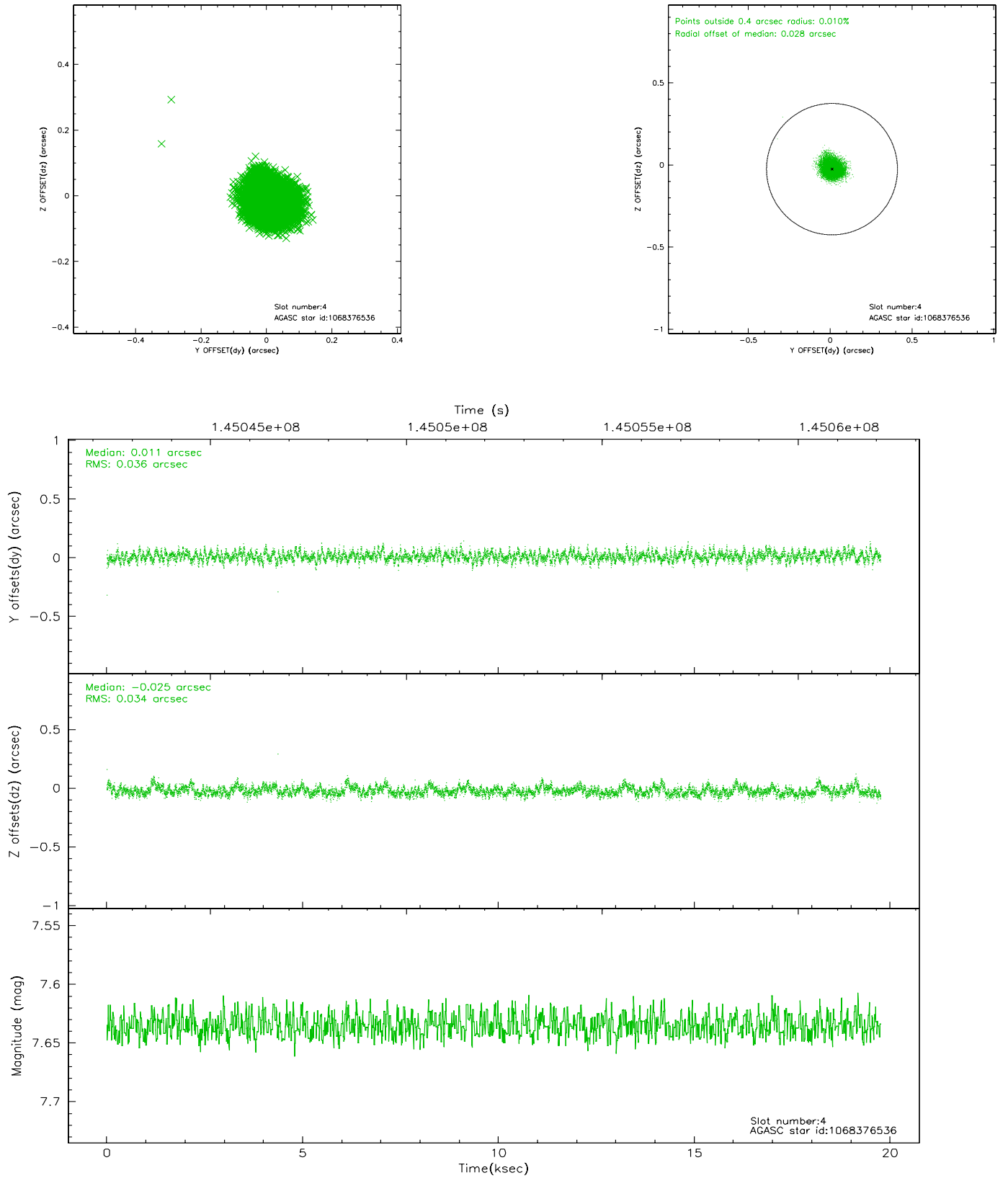
## 2.4 Star Slots

### 2.4.1 Slot 3



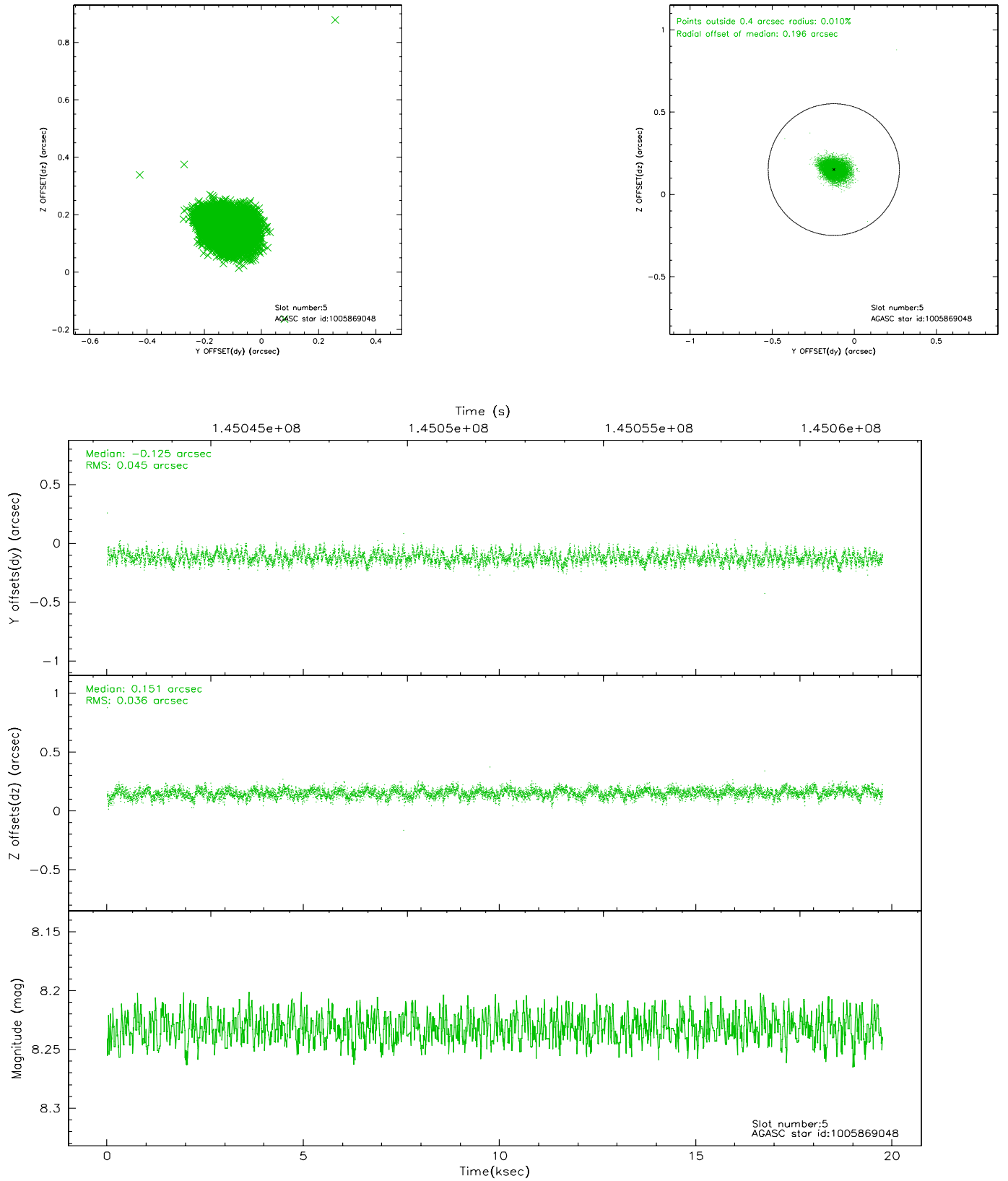


## 2.4.2 Slot 4



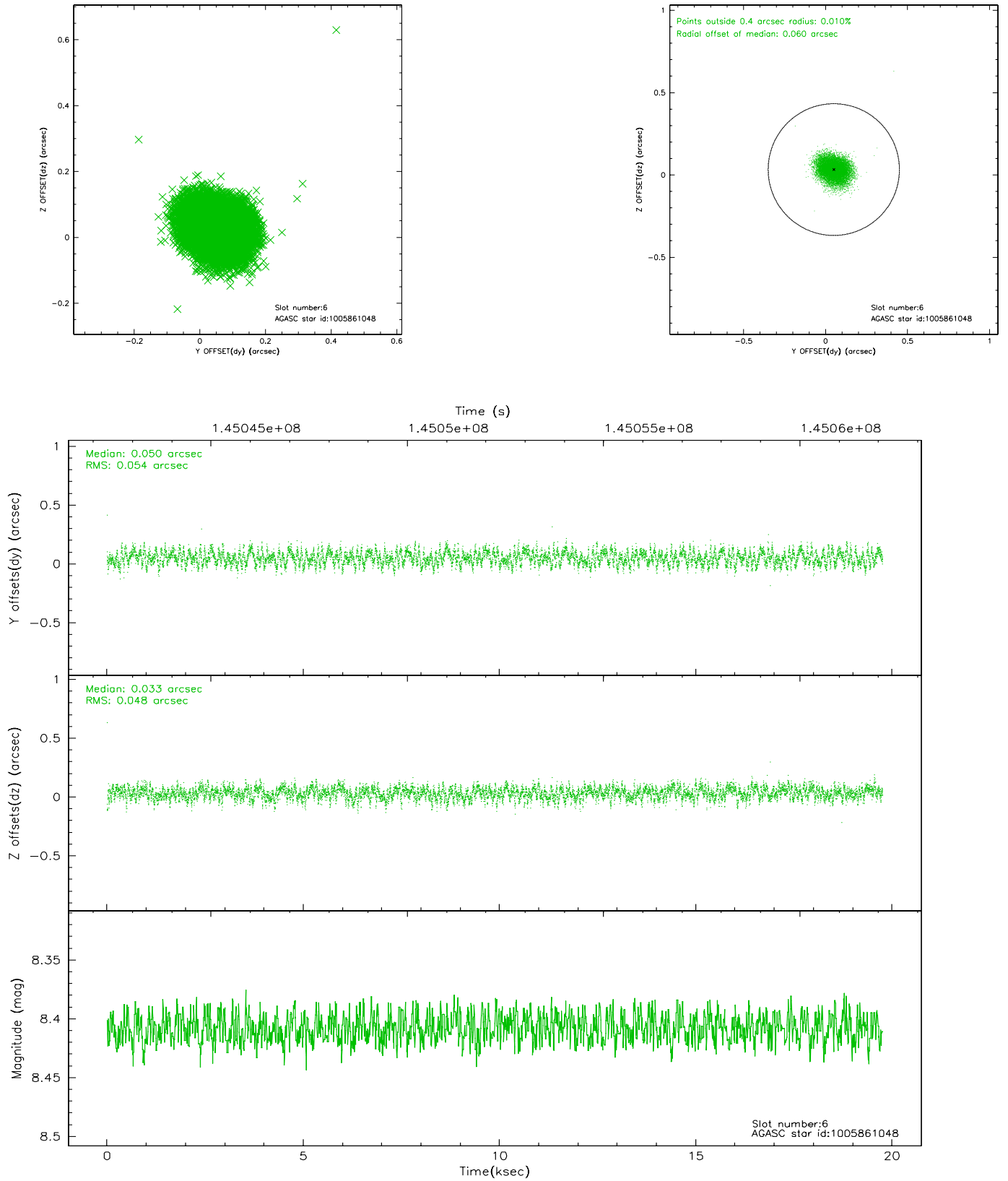


### 2.4.3 Slot 5



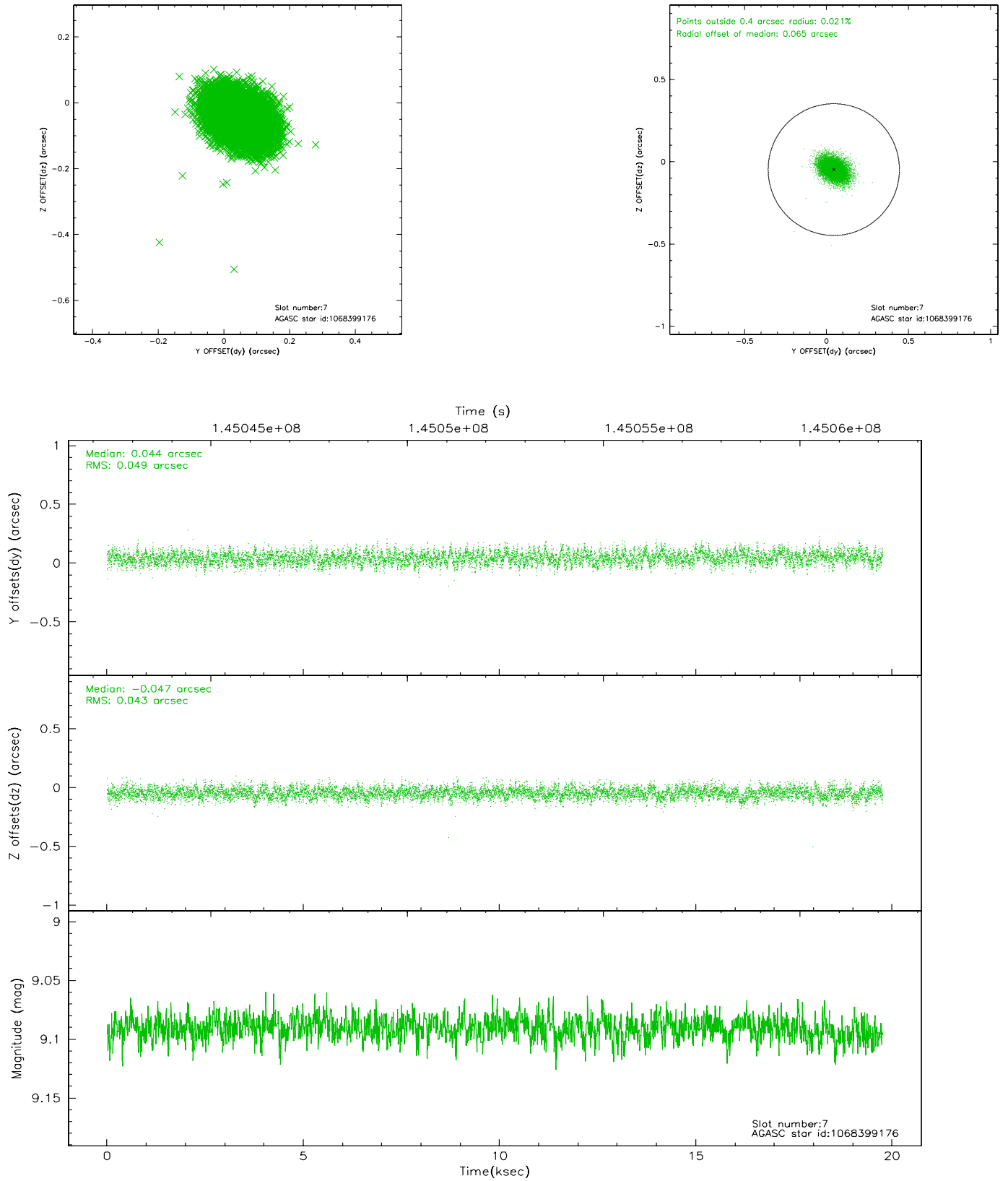


## 2.4.4 Slot 6





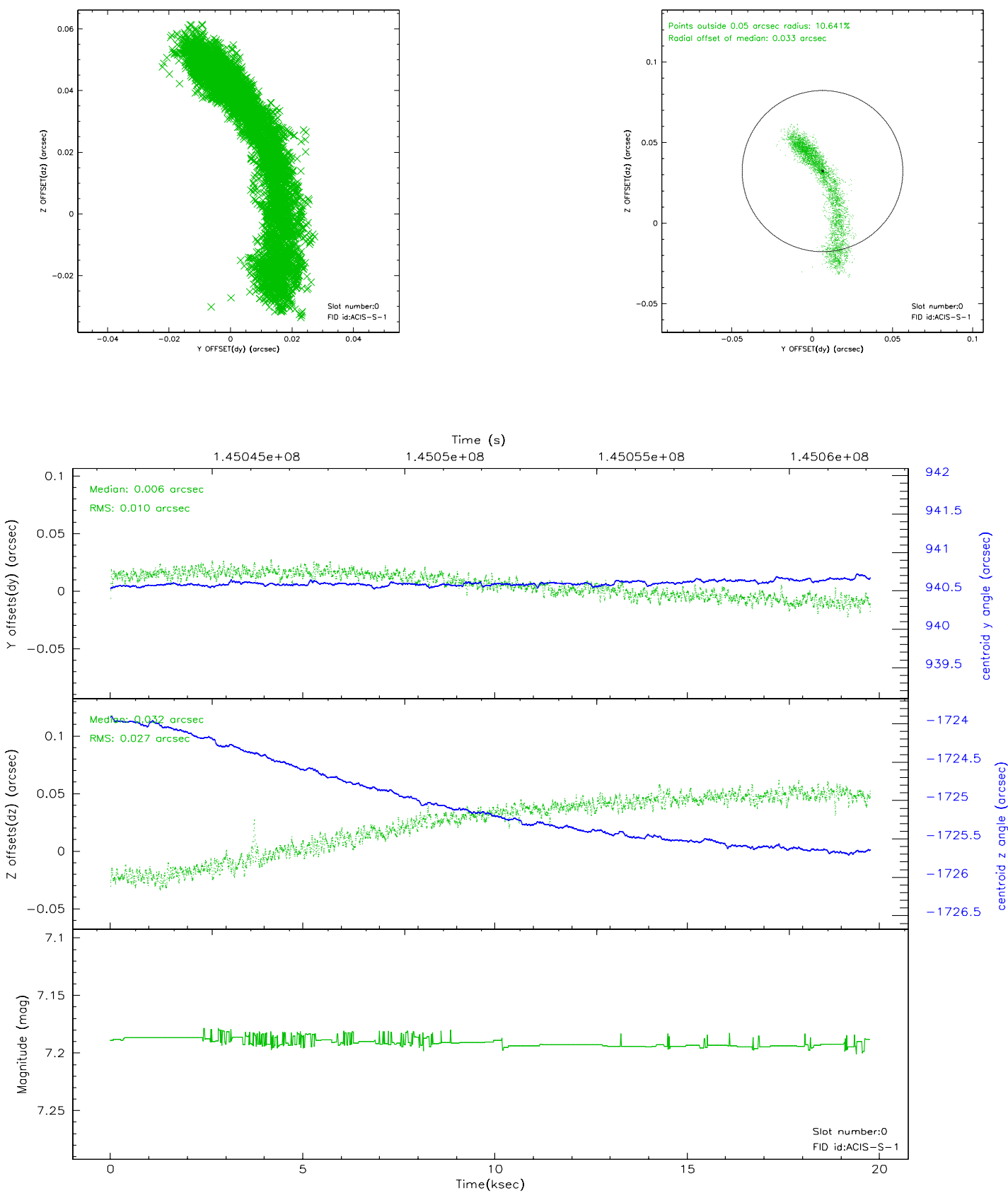
## 2.4.5 Slot 7





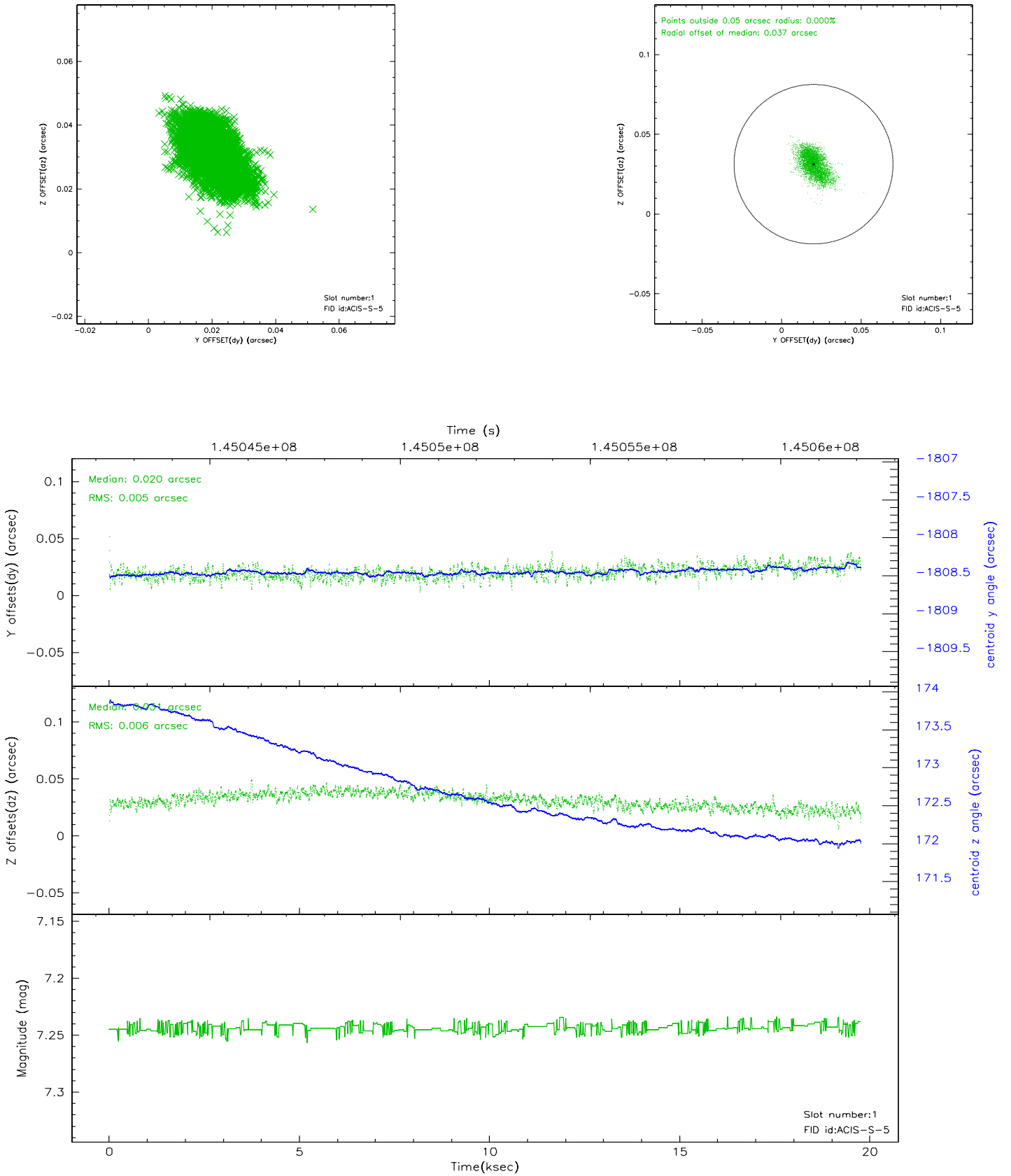
## 2.5 FID Slots

### 2.5.1 Slot 0



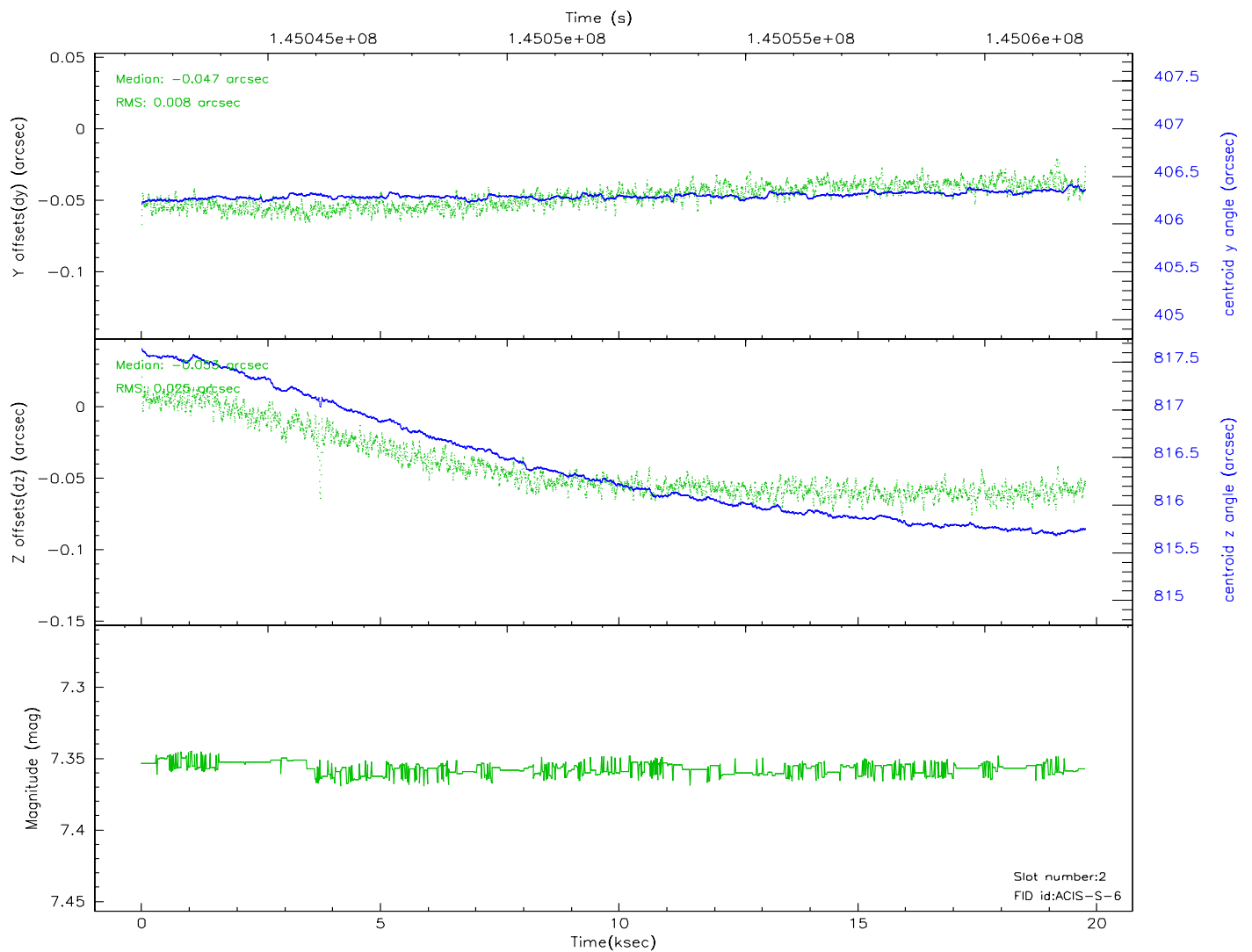
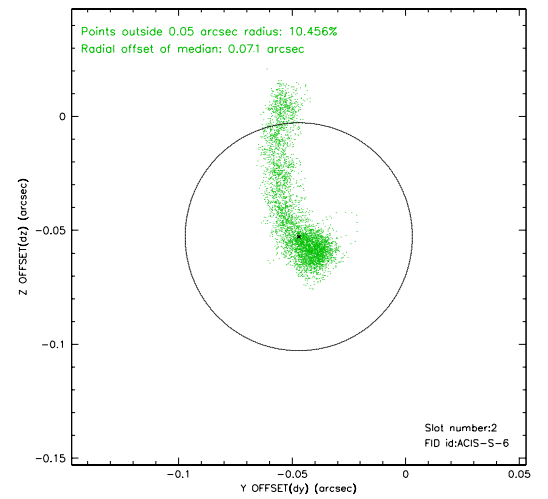
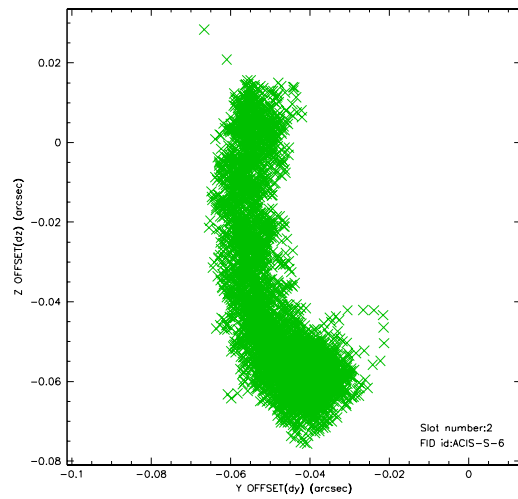


## 2.5.2 Slot 1



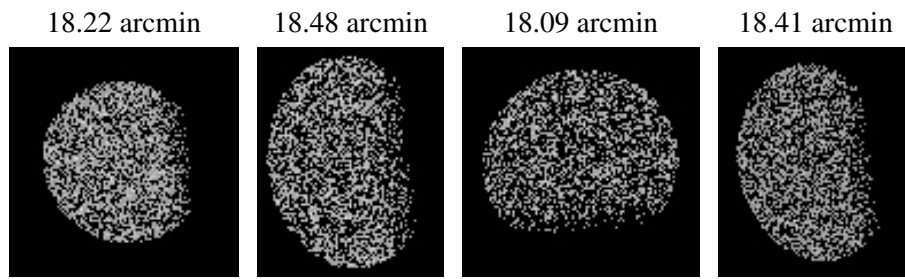


### 2.5.3 Slot 2





### 3 Point Sources





# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.753

## A.2 Comments

Monitor constraint met.