

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 2513 - L2 Version 001  
Chandra X-Ray Center

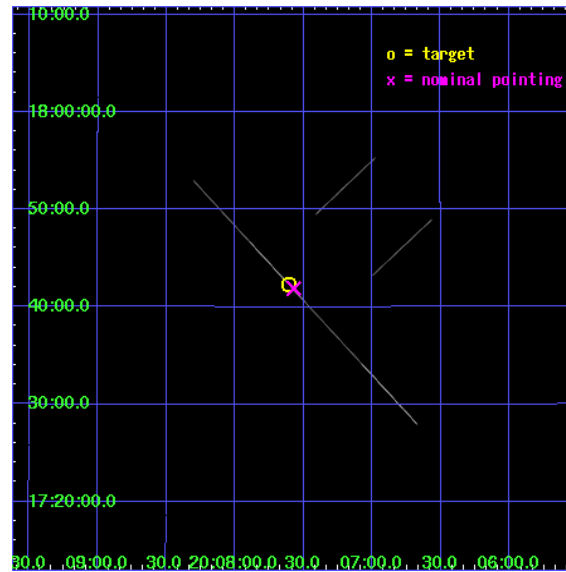
L2 Processing Date : Dec 21 2006

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

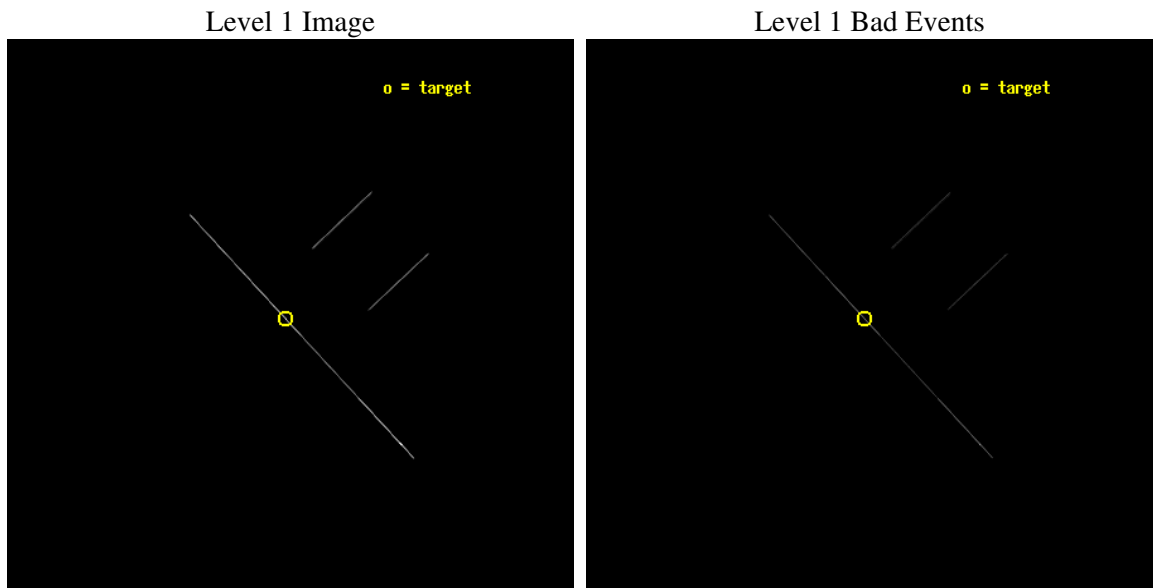
seq_num	300066
obs_id	2513
title	FIRST X-RAY OBSERVATIONS DURING AN EXTREMELY RARE OUTBURST OF WZ SGE
observer	Dr Erik Kuulkers
object	WZ SGE
ra_targ	301.900833
dec_targ	17.704167
ra_nom	301.89264335726
dec_nom	17.69834230935
roll_nom	226.96067224136
revision	3
ontime	12071.75
livetime	12024.594726562
ontime2	12071.75
ontime3	12071.75
ontime5	12071.75
ontime6	12071.75
ontime7	12071.75
ontime8	12071.75
l2events	161660



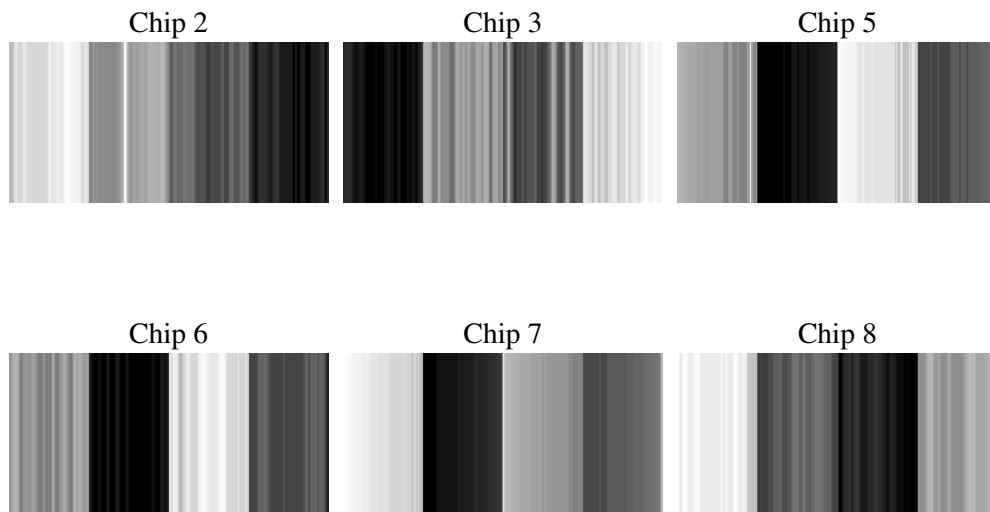
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.4
date	2006-12-21T16:55:09
revision	3

sched_exp_time	11500.000000
ontime	12550.487706348
ontime2	12550.483583376
ontime3	12550.38807109
ontime5	12550.488337293
ontime6	12550.488015369
ontime7	12550.487706348
ontime8	12550.487385273
l1events	256022

### 2.1.4 Events

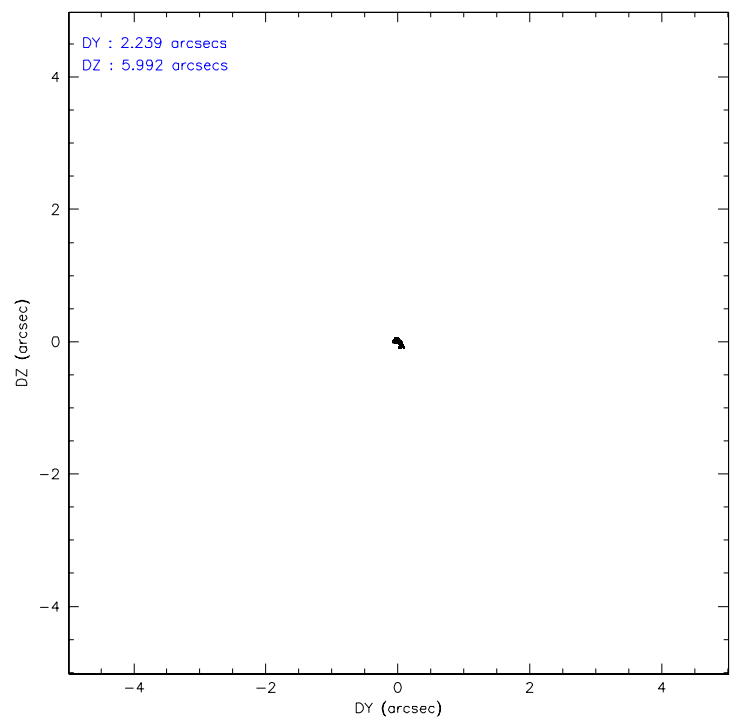
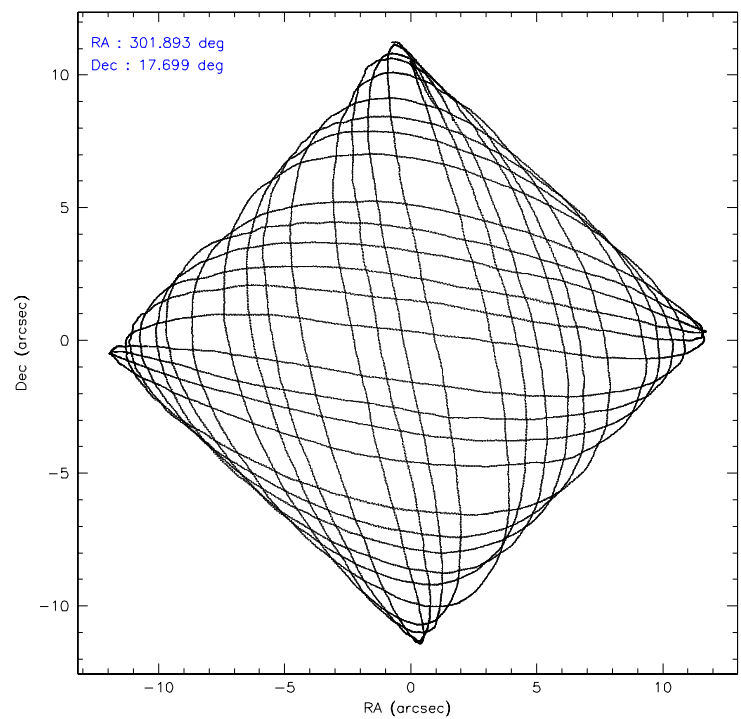
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	17059	17899	93266	17359	71603	38836
rejected events	3363	3373	9398	3660	9998	5505
rejected %	19%	18%	10%	21%	13%	14%

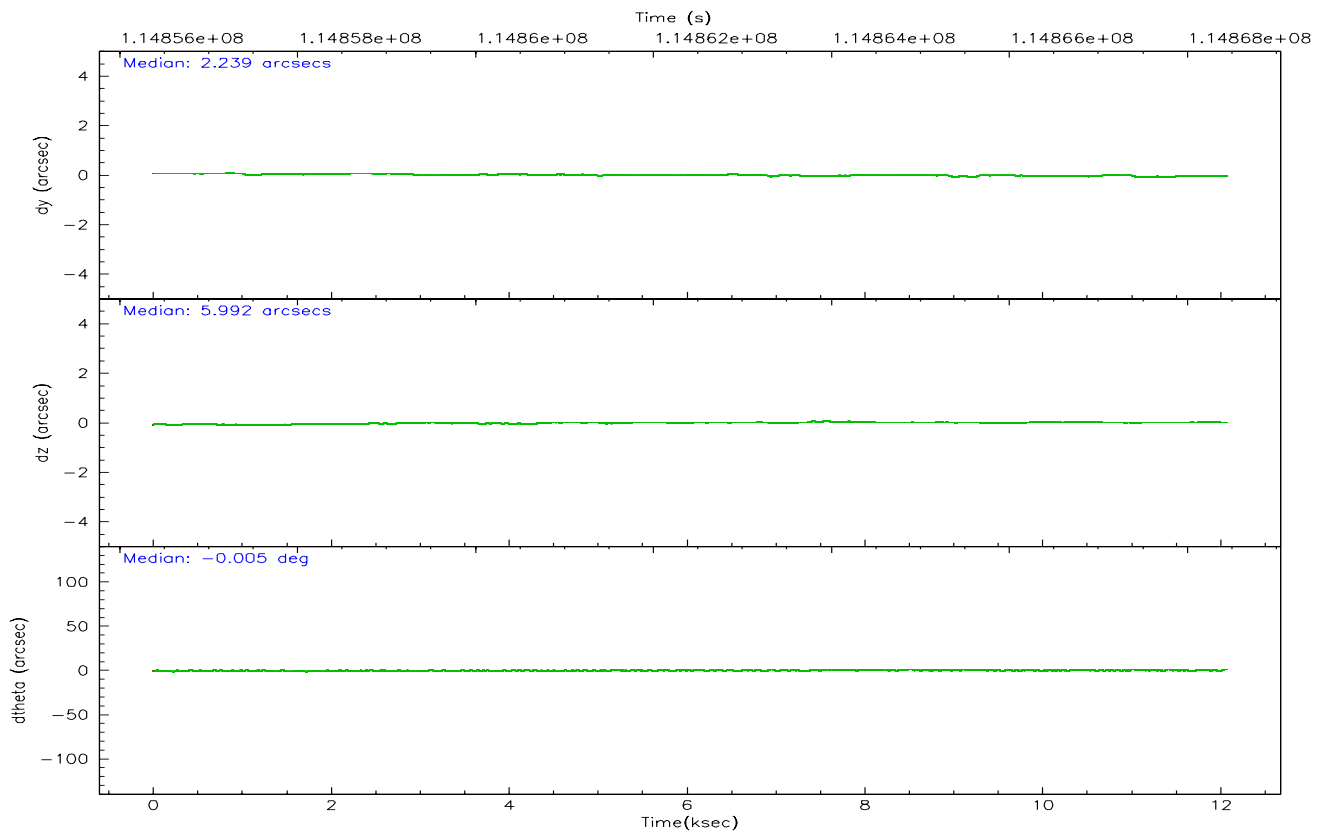
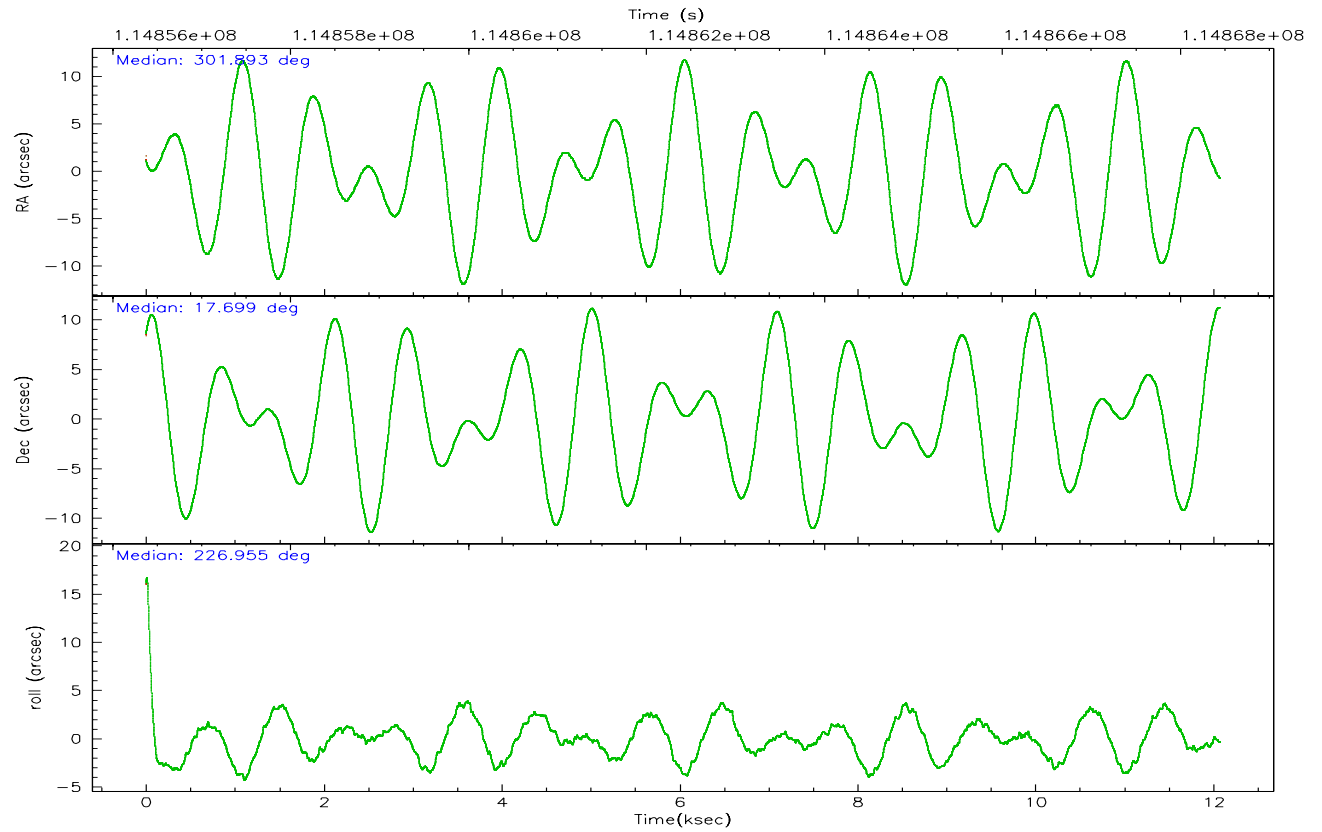
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1952	2008	27379	1691	9185	7392
	11%	11%	29%	9%	12%	19%
grade 1 events	64	58	88	53	120	107
	0%	0%	0%	0%	0%	0%
grade 2 events	5254	5630	22226	5442	16440	9665
	30%	31%	23%	31%	22%	24%
grade 3 events	2084	2379	1424	1954	4080	4853
	12%	13%	1%	11%	5%	12%
grade 4 events	2030	2023	1351	1967	4026	4571
	11%	11%	1%	11%	5%	11%
grade 5 events	2793	2759	6262	3056	7982	4311
	16%	15%	6%	17%	11%	11%
grade 6 events	2882	3042	34536	3196	29770	7937
	16%	16%	37%	18%	41%	20%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

## 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	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	301.898787	301.8926433572578	Subarray requested	NONE	NONE
Pointing Dec	17.724975	17.69834230935047	Alternating exposures requested	N	N
Pointing Roll	226.802162	226.9606722413604	Primary exposure time	0.000000	0
Window start time	114663664.184000	114663664.184000			
Window stop time	115257664.184000	115257664.184000			
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	114856949.184000	114855799.93422			
Observation start date	2001-08-22T08:41:25	2001-08-22T08:23:19			
Observation end time	114868449.184000	114869161.32225			
Observation end date	2001-08-22T11:53:05	2001-08-22T12:06:01			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect





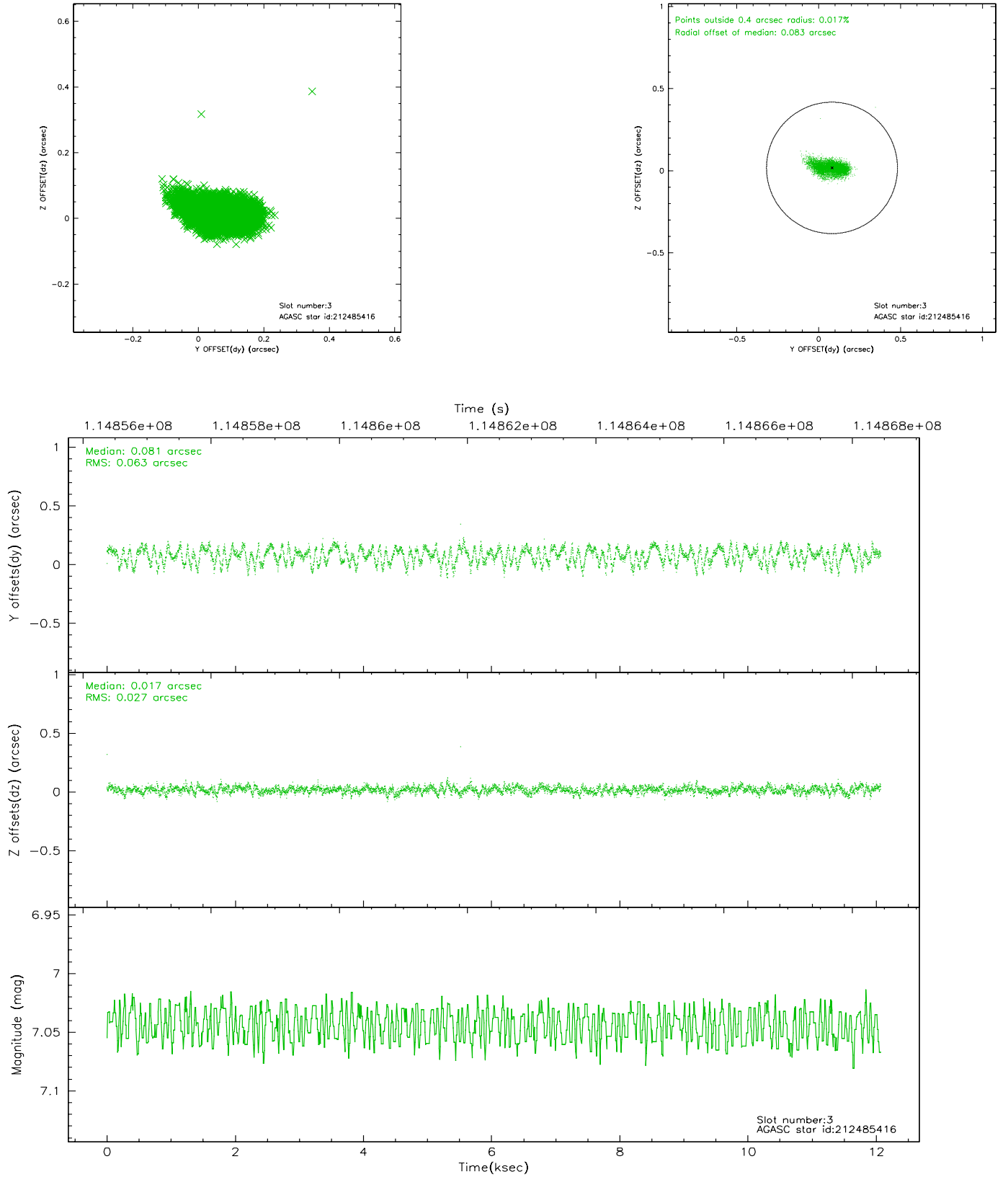
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2946	-0.031	0.025	0.007	0.011	0.000000	0.000000	-754.85	-1727.12
1	FID	ACIS-S-4	7.20	2946	-0.070	0.008	0.005	0.009	0.000000	0.000000	2158.15	181.00
2	FID	ACIS-S-5	7.24	2946	0.069	-0.024	0.006	0.011	0.000000	0.000000	-1807.11	175.01
3	GUIDE	212485416	7.04	5892	0.081	0.017	0.073	0.121	301.058813	17.734859	1941.63	-2127.42
4	GUIDE	212468336	7.59	5892	-0.094	0.038	0.060	0.094	301.479163	18.244435	-381.47	-2326.62
5	GUIDE	212599608	7.83	5892	-0.018	-0.049	0.048	0.078	302.041368	17.043012	1453.73	2038.75
6	GUIDE	212477672	7.62	5892	0.025	0.026	0.044	0.069	301.870505	17.020545	1915.80	1666.37
7	GUIDE	212600320	8.66	5890	0.013	-0.030	0.059	0.095	302.393008	18.138679	-2244.07	212.41

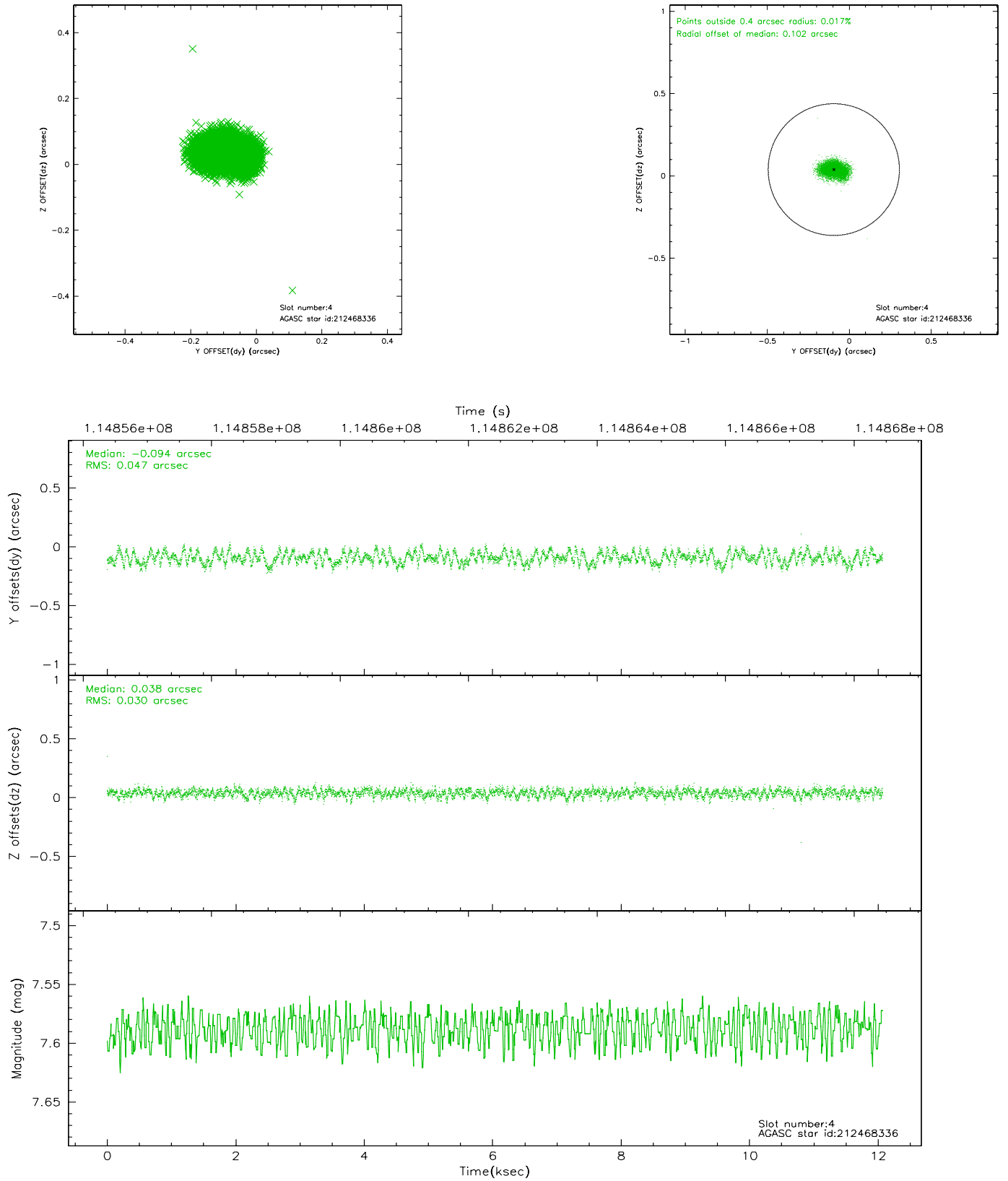


## 2.4 Star Slots

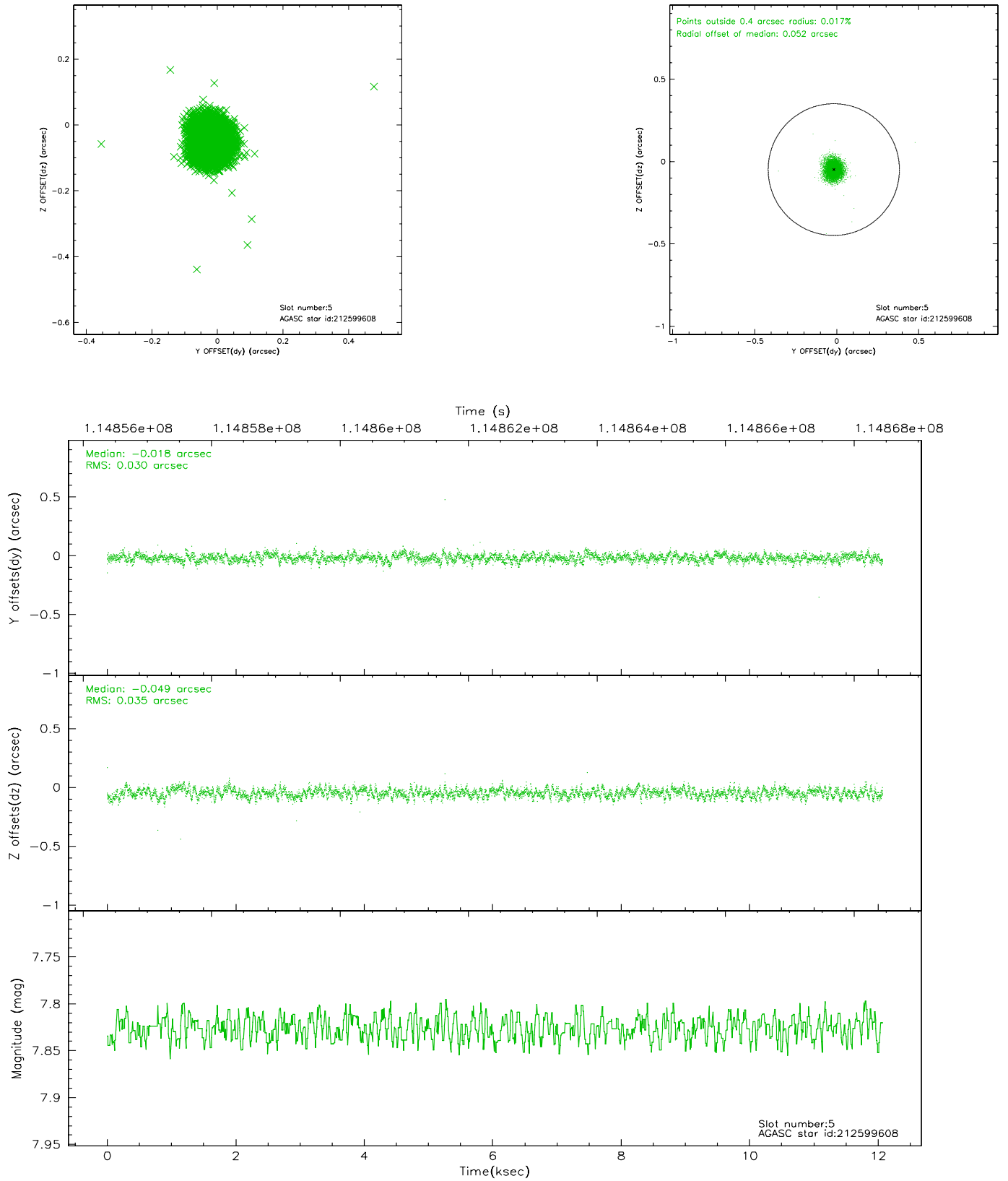
### 2.4.1 Slot 3



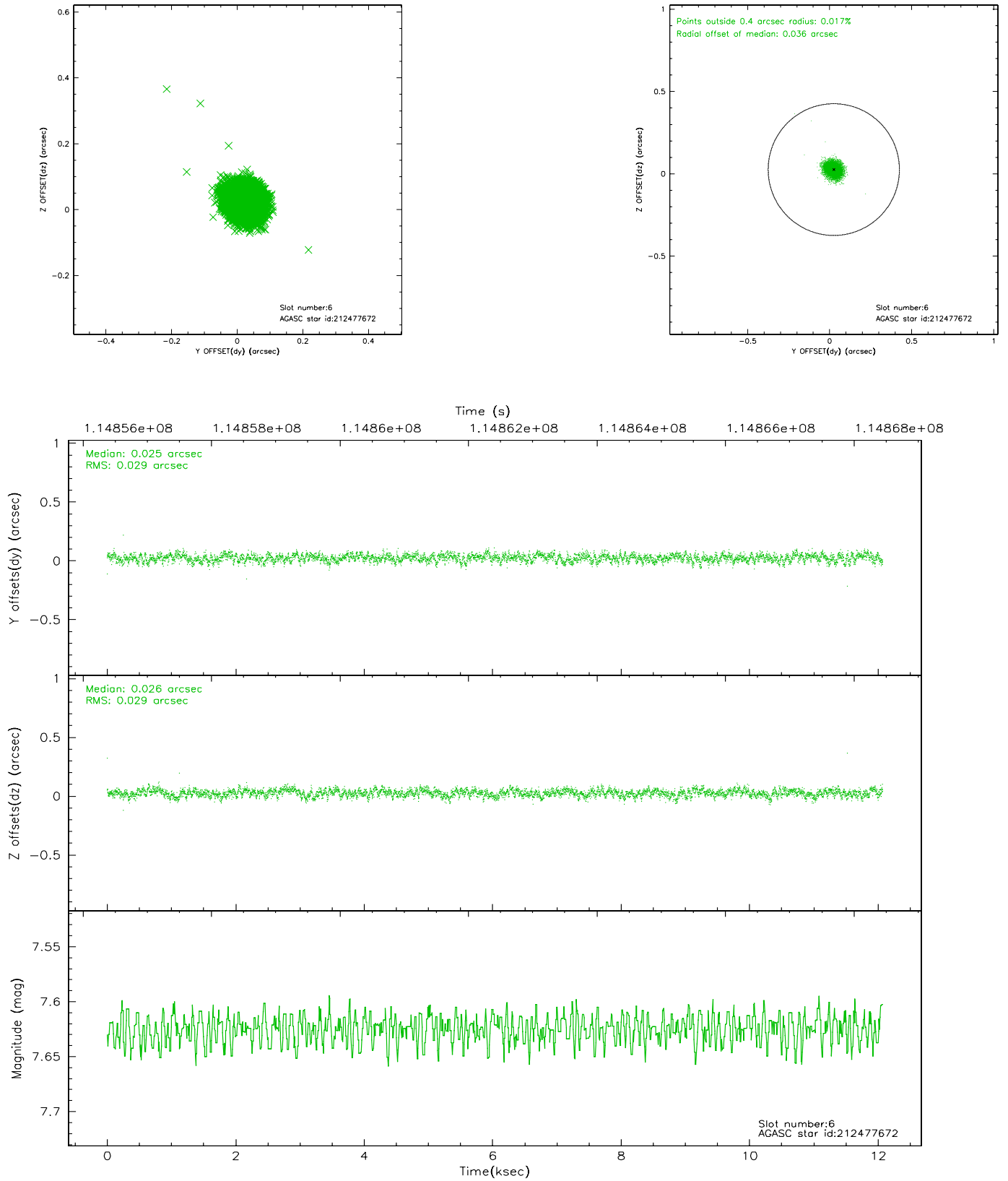
## 2.4.2 Slot 4



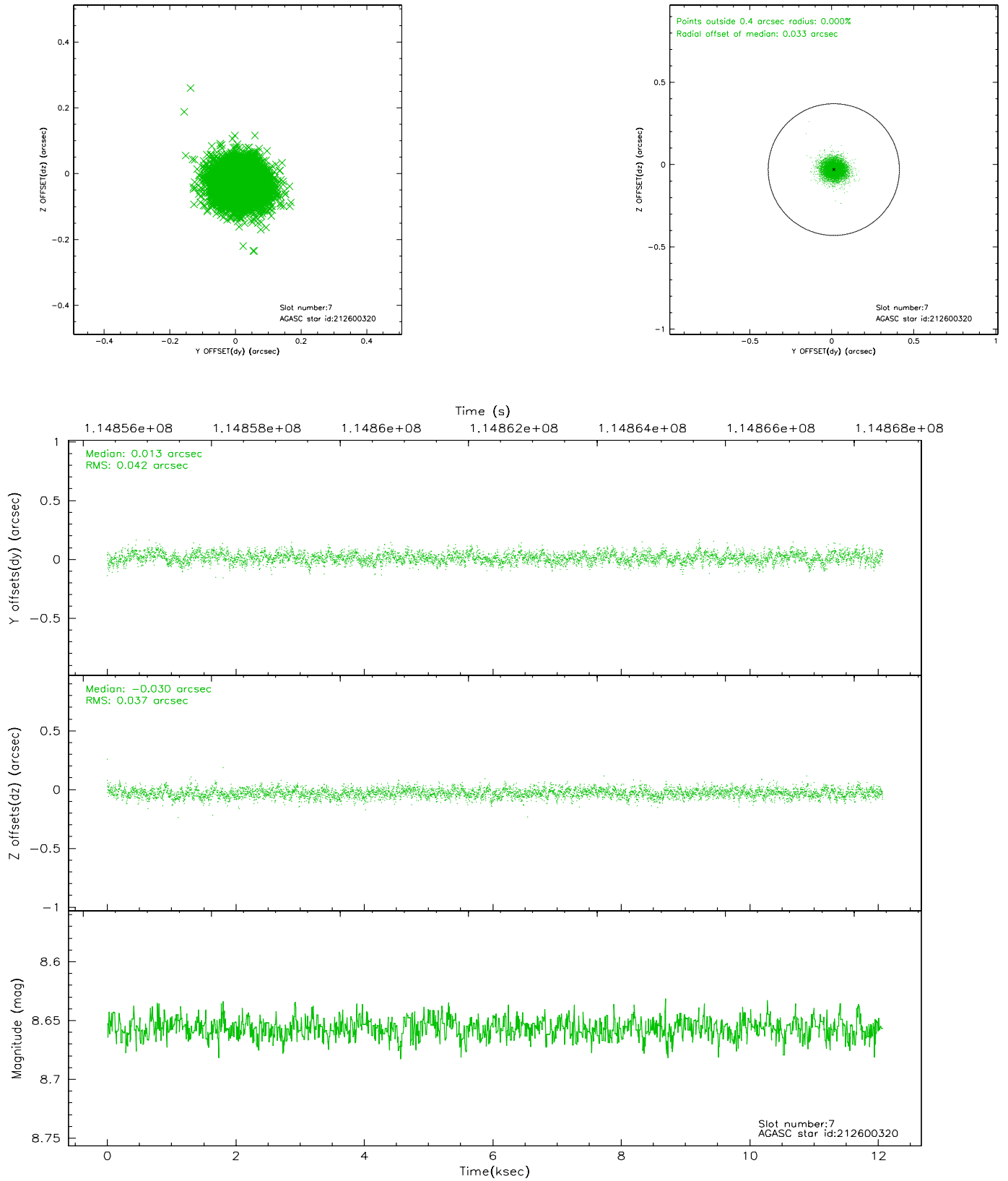
### 2.4.3 Slot 5



## 2.4.4 Slot 6

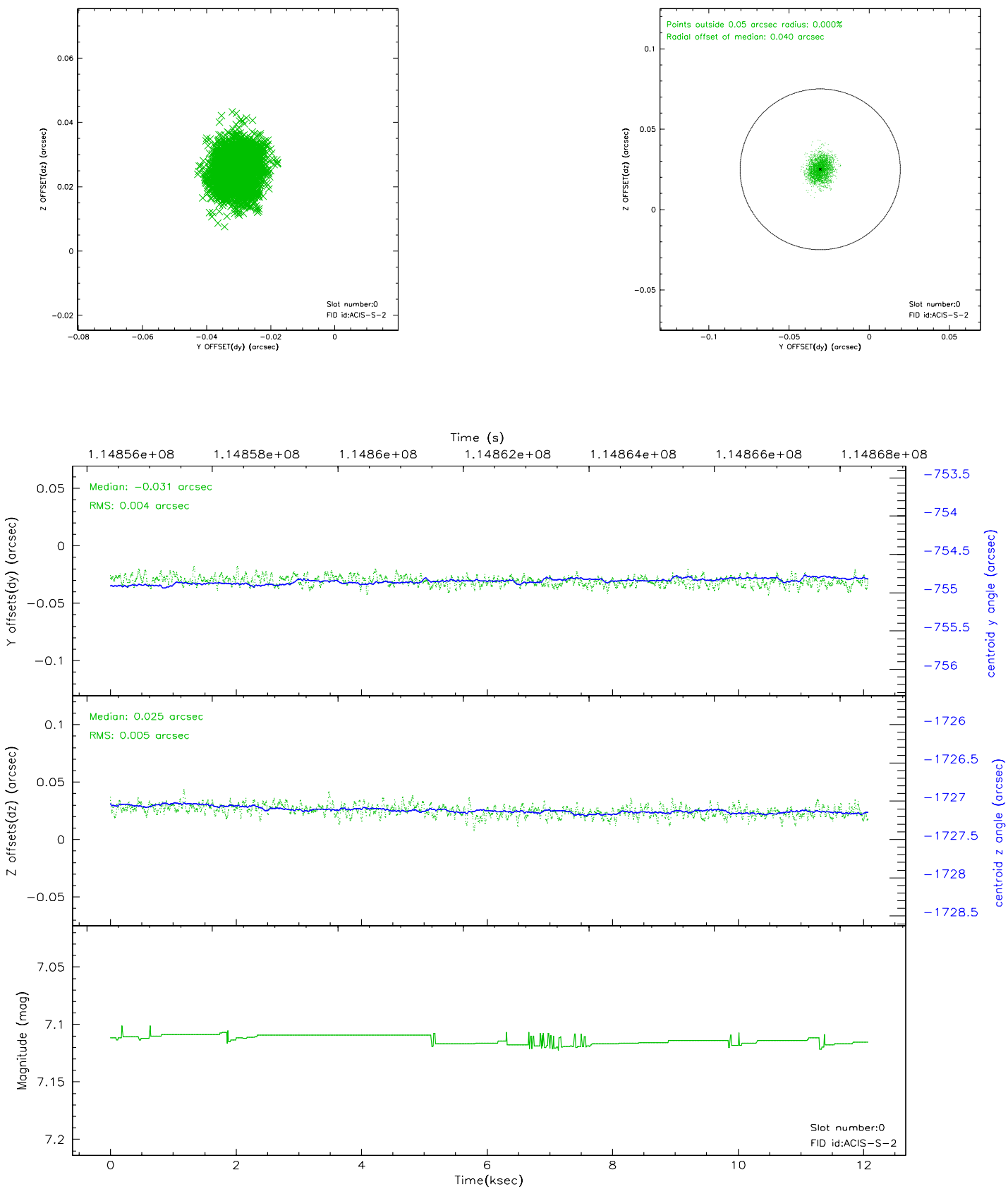


## 2.4.5 Slot 7

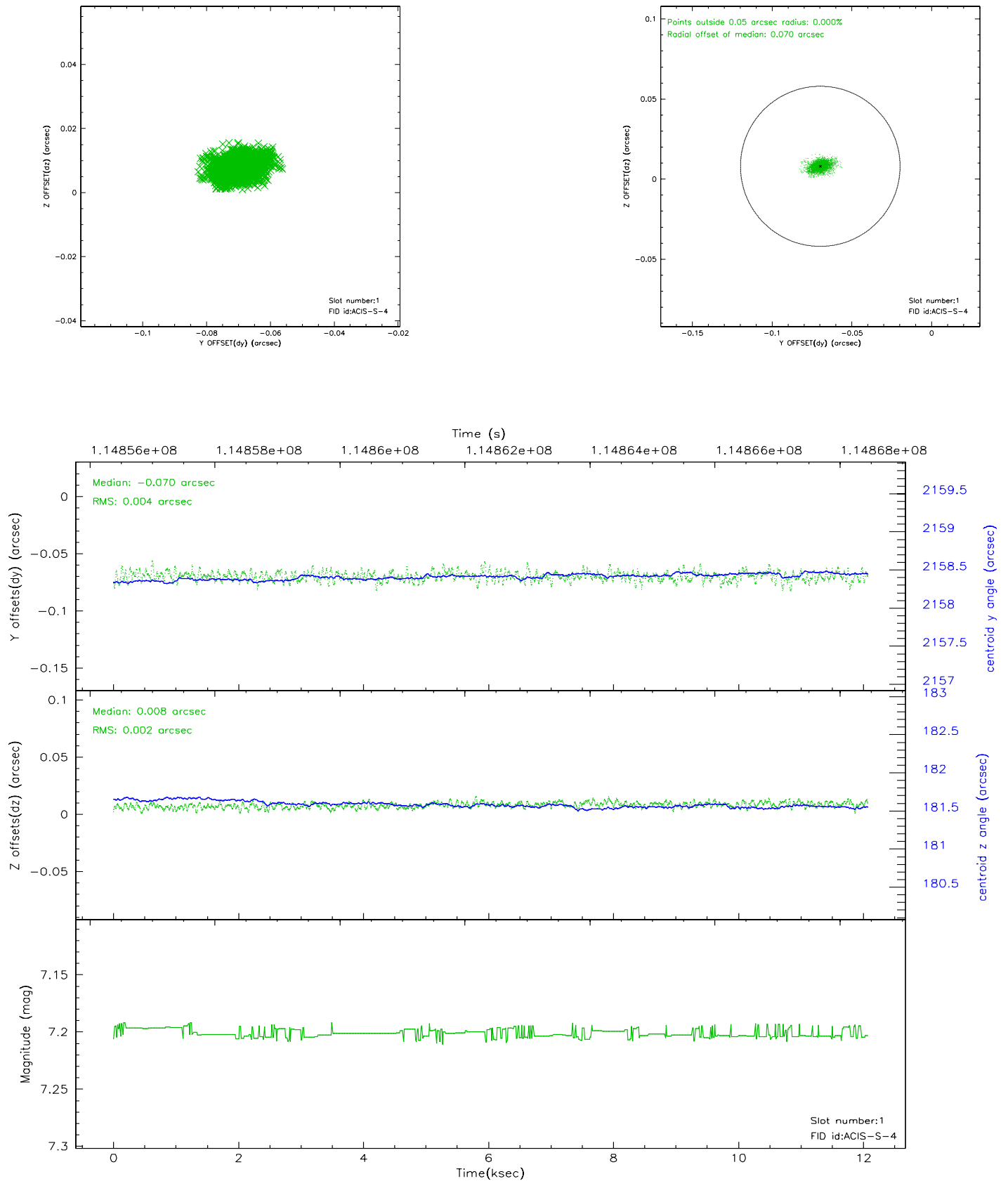


## 2.5 FID Slots

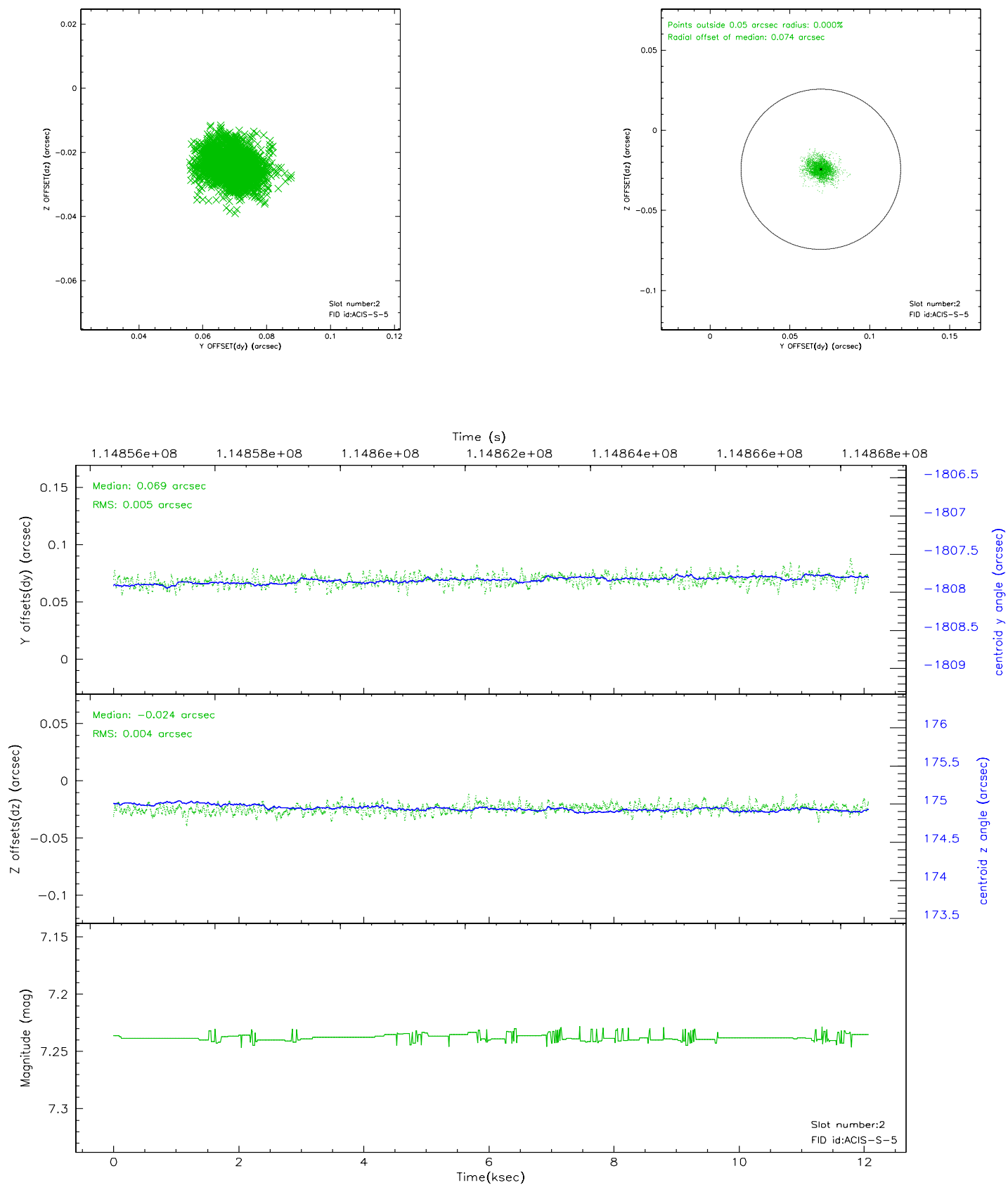
### 2.5.1 Slot 0



## 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)	2006.12.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.075

### A.2 Comments

Window constraint satisfied.