

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 2981 - L2 Version 001  
Chandra X-Ray Center

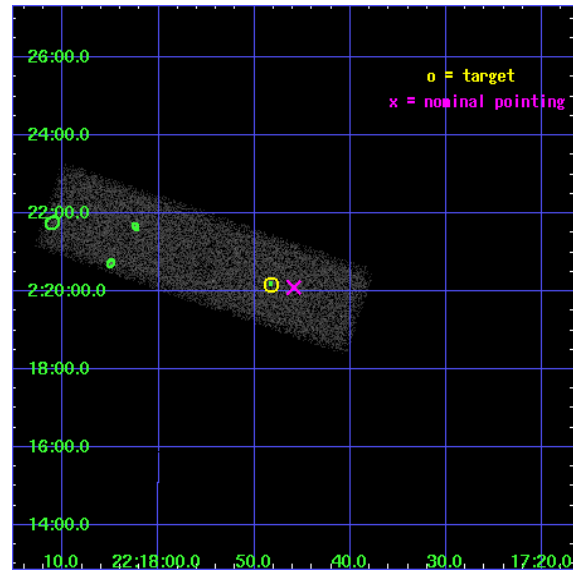
L2 Processing Date : Oct 2 2006

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# 1 Front

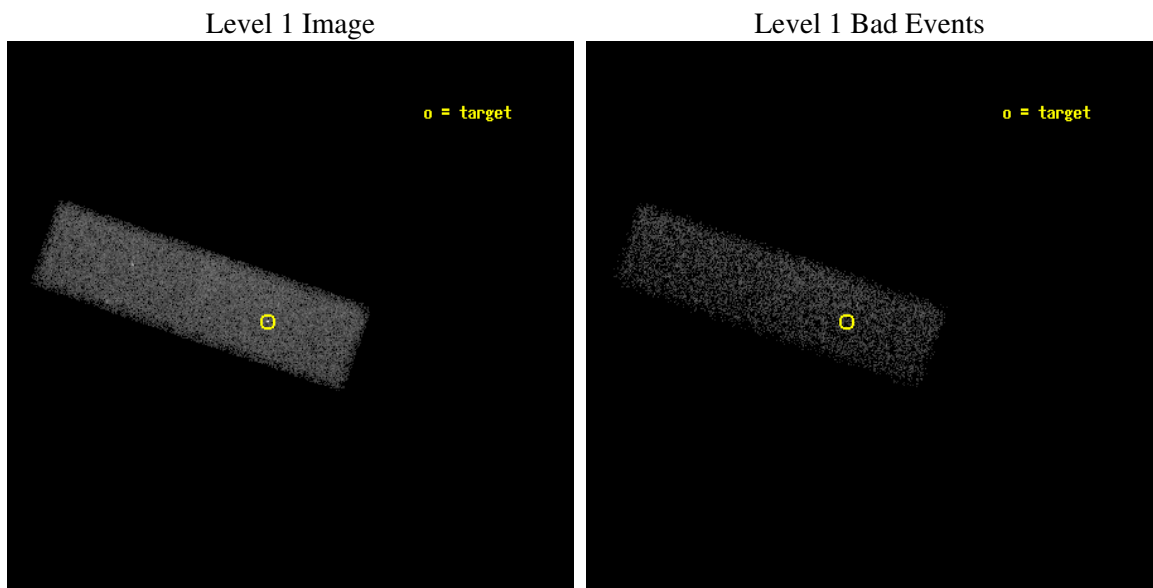
seq_num	700420
obs_id	2981
title	STUDY OF THE Z=3.572 QUASAR PKS 2215+020
observer	DR. LEON VANSPEYBROECK
object	PKS 2215+020
dtcycle	0
cycle	P
ra_targ	334.450833
dec_targ	2.336389
ra_nom	334.44124960277
dec_nom	2.3349227686541
roll_nom	198.85288034806
revision	2
ontime	29041.600432754
livetime	27624.465359796
ontime7	29041.600432754
l2events	23940



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.9
caldbver	3.2.3
date	2006-10-02T19:25:18
revision	2

sched_exp_time	28800.000000
ontime	29631.187072456
ontime7	29631.187072456
l1events	58955

### 2.1.4 Events

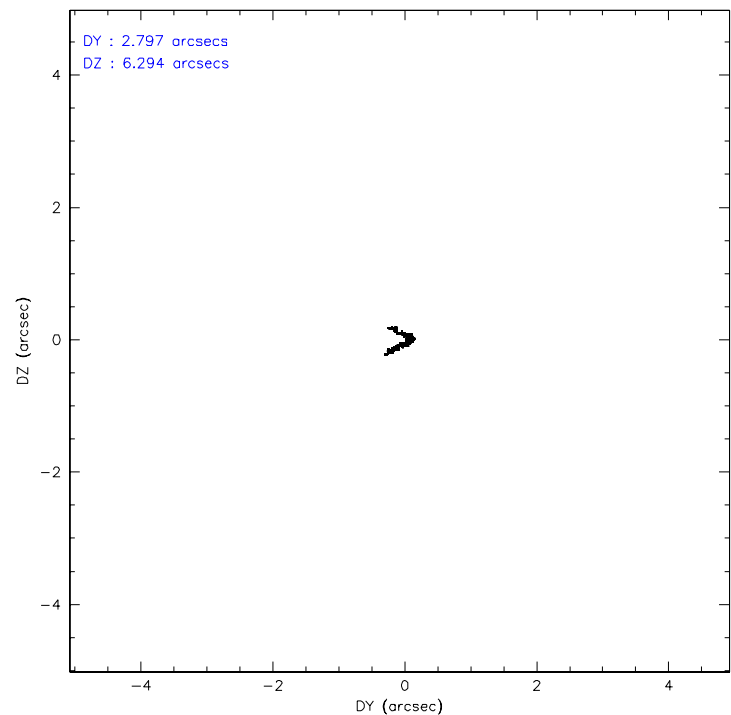
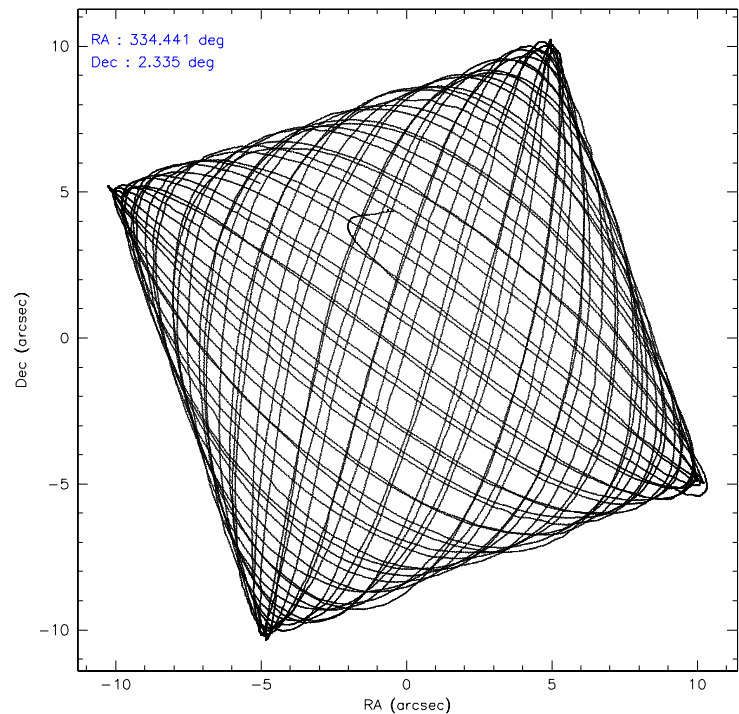
	<b>ccd 7</b>
level 1 events	58955
rejected events	34213
rejected %	58%

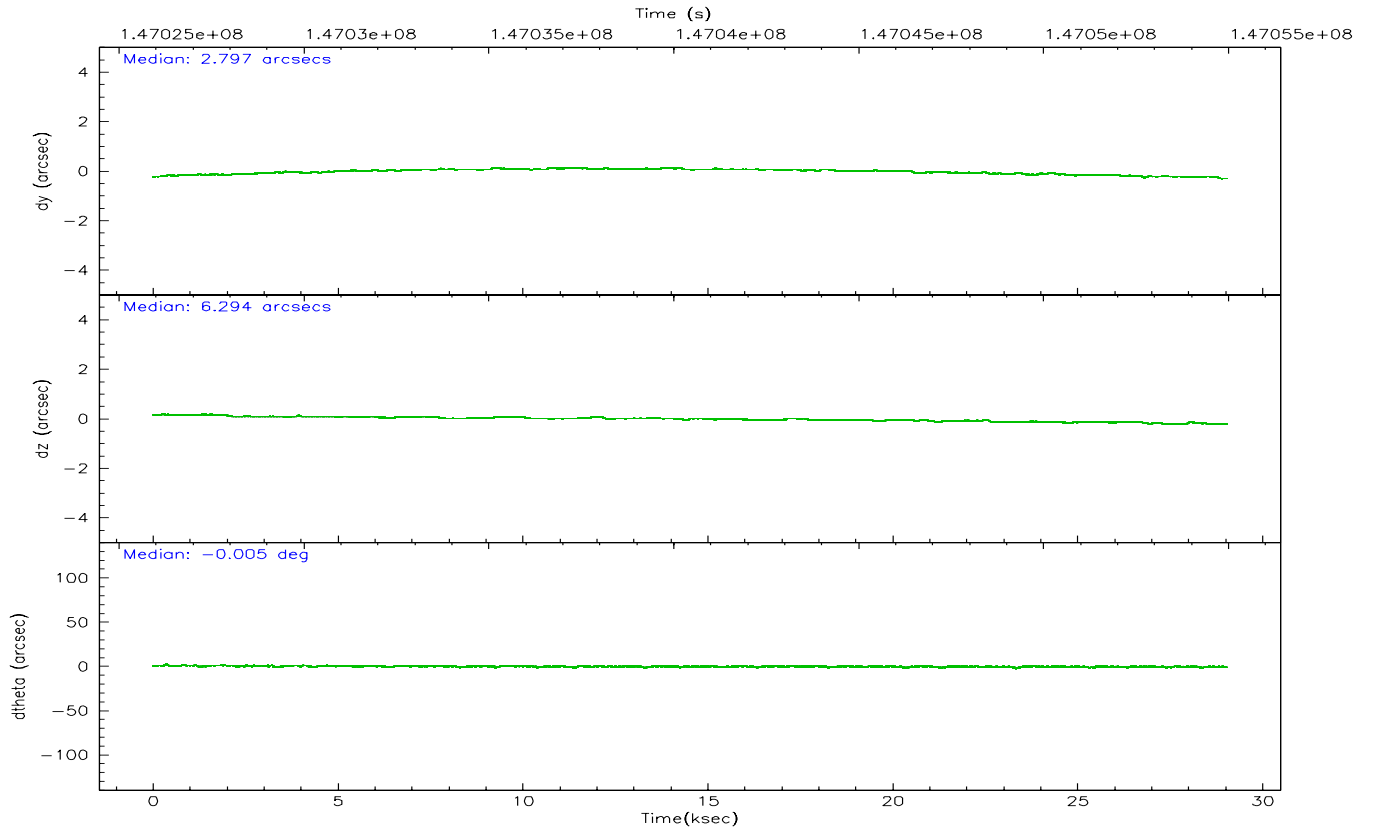
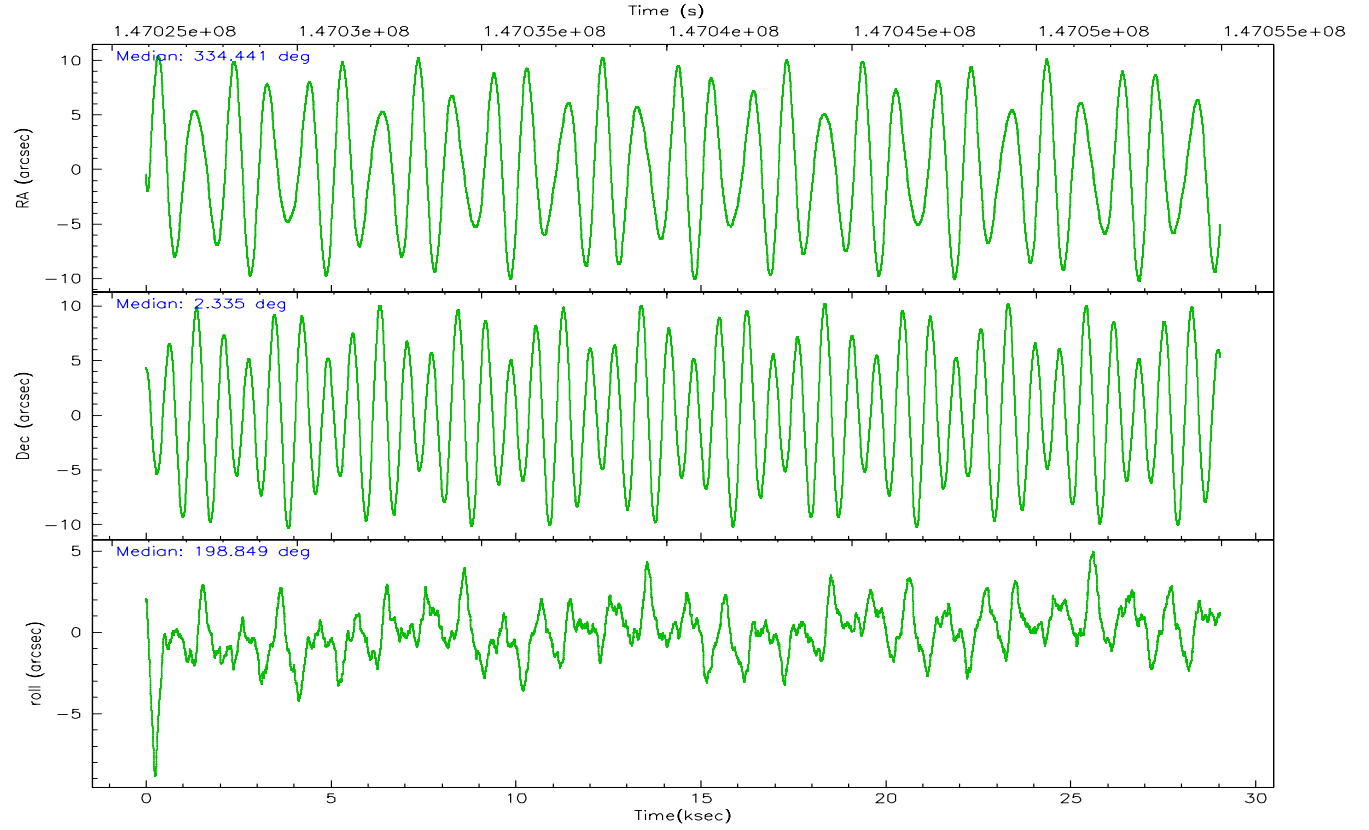
	<b>ccd 7</b>
grade 0 events	1979
	3%
grade 1 events	50
	0%
grade 2 events	5992
	10%
grade 3 events	2111
	3%
grade 4 events	1920
	3%
grade 5 events	4189
	7%
grade 6 events	13217
	22%
grade 7 events	29497
	50%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
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
Pointing RA	334.458925	334.4412496027714	Subarray requested	1/4	1/4
Pointing Dec	2.355665	2.334922768654108	Subarray start row	0	385
Pointing Roll	198.695523	198.8528803480606	Subarray row count	1024	256
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	0.8
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	147026159.184000	147025167.42108			
Observation start date	2002-08-29T16:34:55	2002-08-29T16:19:27			
Observation end time	147054959.184000	147056521.14738			
Observation end date	2002-08-30T00:34:55	2002-08-30T01:02:01			
Read mode	TIMED	TIMED			

2.3 Aspect





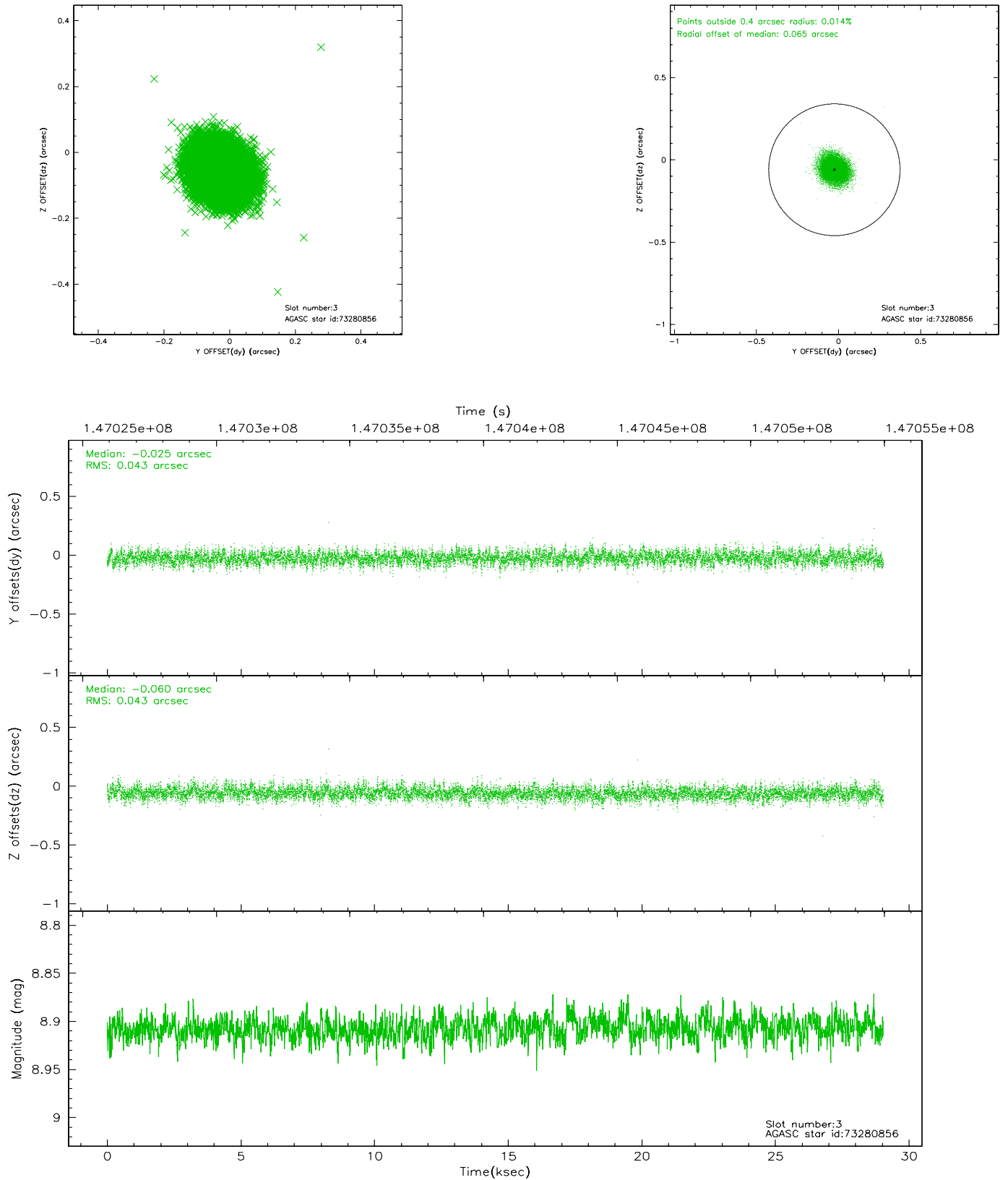
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	7083	-0.023	0.031	0.008	0.013	0.000000	0.000000	-755.39	-1727.41
1	FID	ACIS-S-4	7.20	7083	-0.056	0.003	0.009	0.024	0.000000	0.000000	2157.77	181.02
2	FID	ACIS-S-5	7.24	7083	0.049	-0.025	0.009	0.018	0.000000	0.000000	-1808.10	174.68
3	GUIDE	73280856	8.91	14158	-0.025	-0.060	0.065	0.106	334.217234	1.963108	1276.83	1060.36
4	GUIDE	73410696	9.15	14165	0.101	-0.029	0.102	0.155	335.143857	2.037436	-1966.89	1874.96
5	GUIDE	73281048	8.33	14165	-0.151	0.010	0.055	0.087	333.891950	1.945638	2405.49	744.86
6	GUIDE	73283768	9.63	14149	0.091	0.114	0.079	0.129	334.099797	2.351472	1228.92	-399.14
7	GUIDE	73663840	9.61	14053	-0.020	-0.035	0.109	0.175	333.641863	2.713150	2370.86	-2161.18

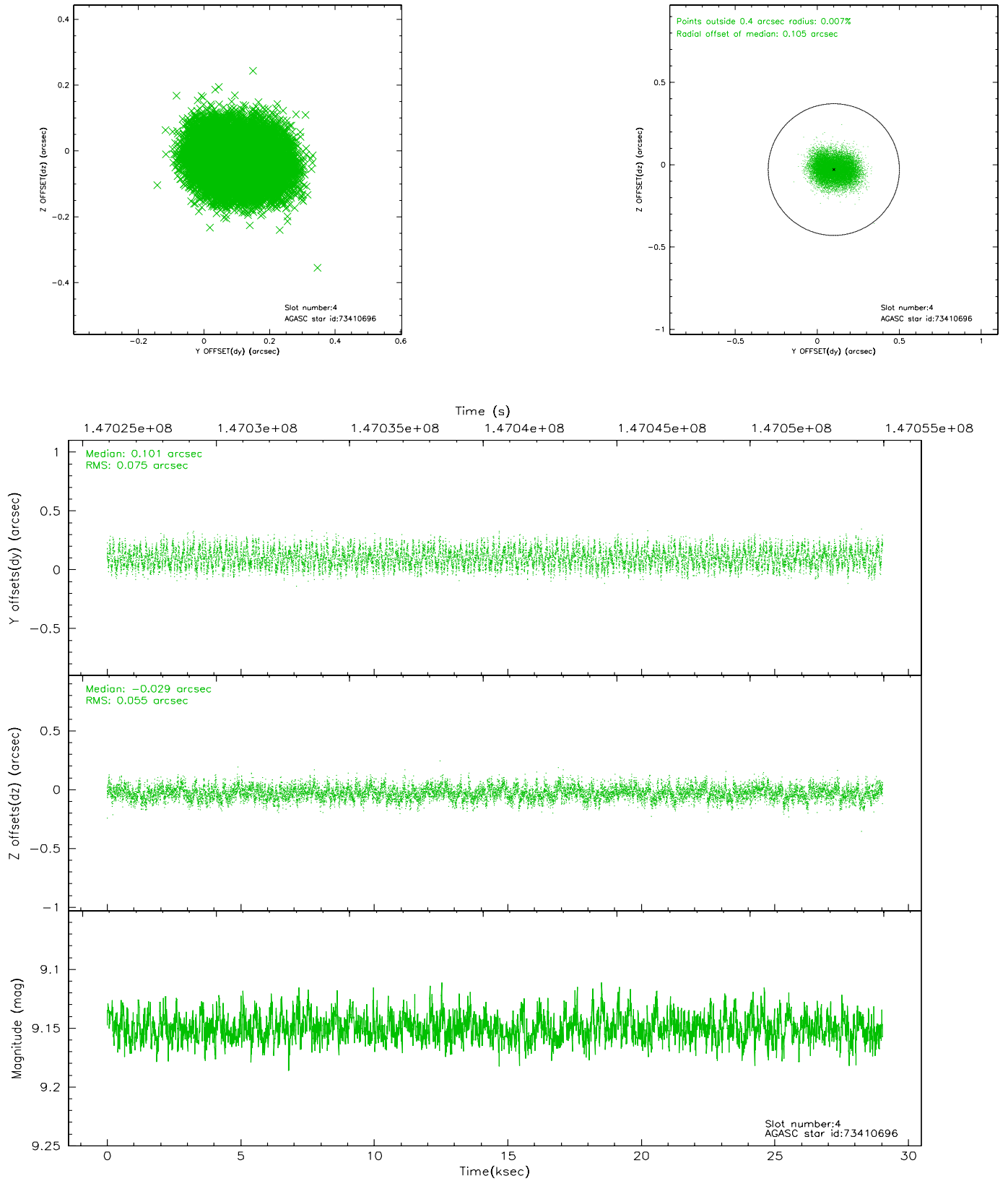


## 2.4 Star Slots

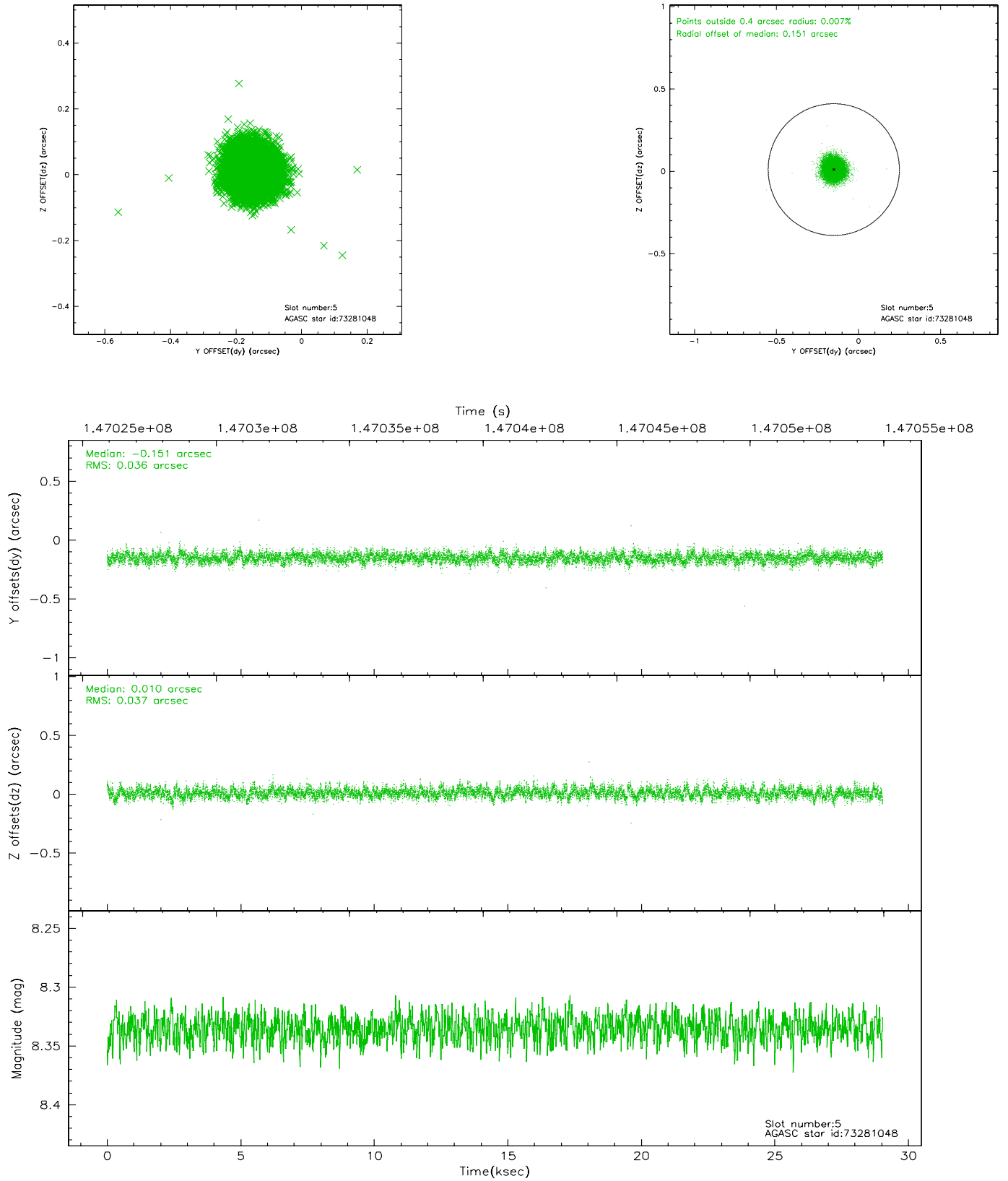
### 2.4.1 Slot 3



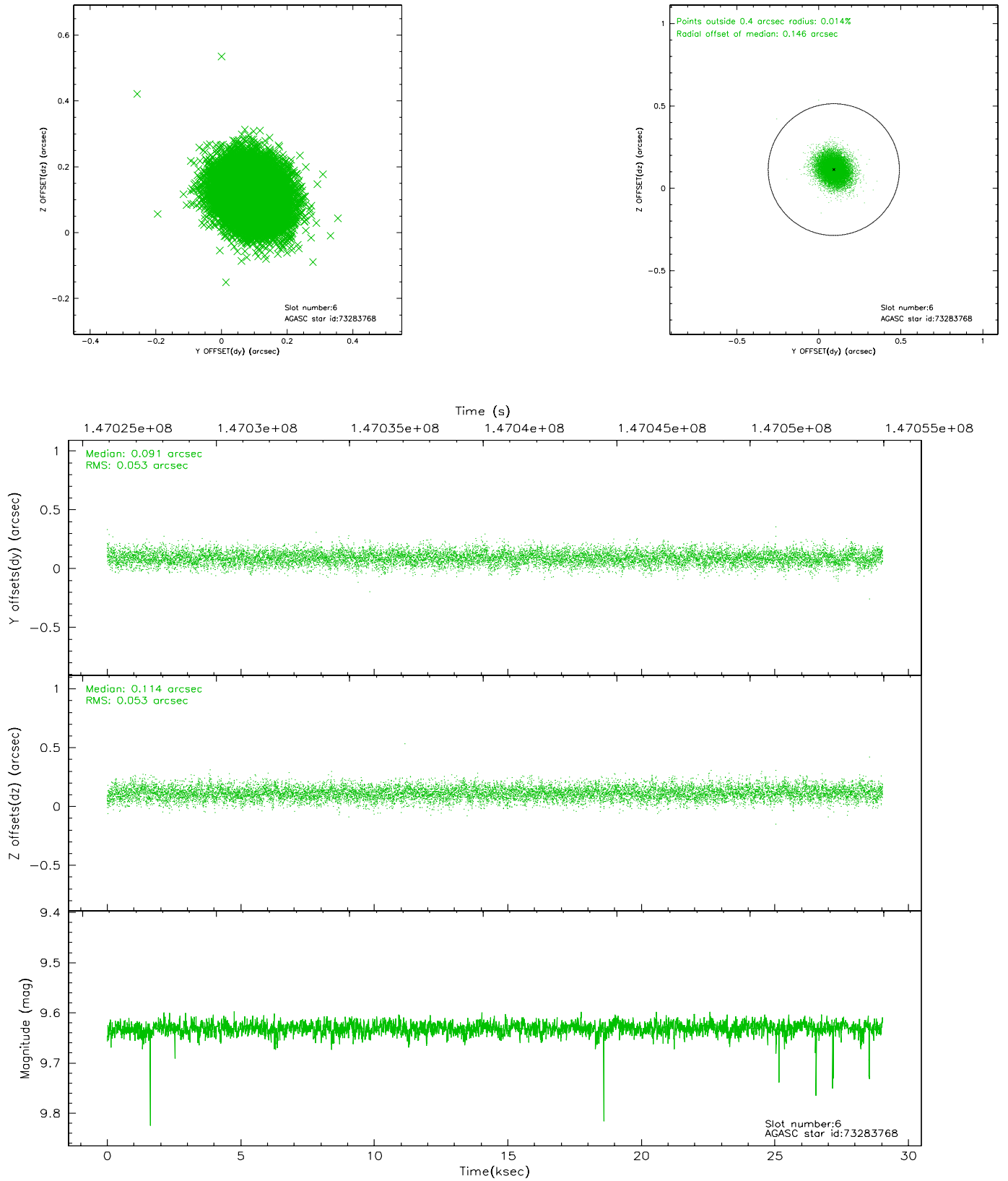
## 2.4.2 Slot 4



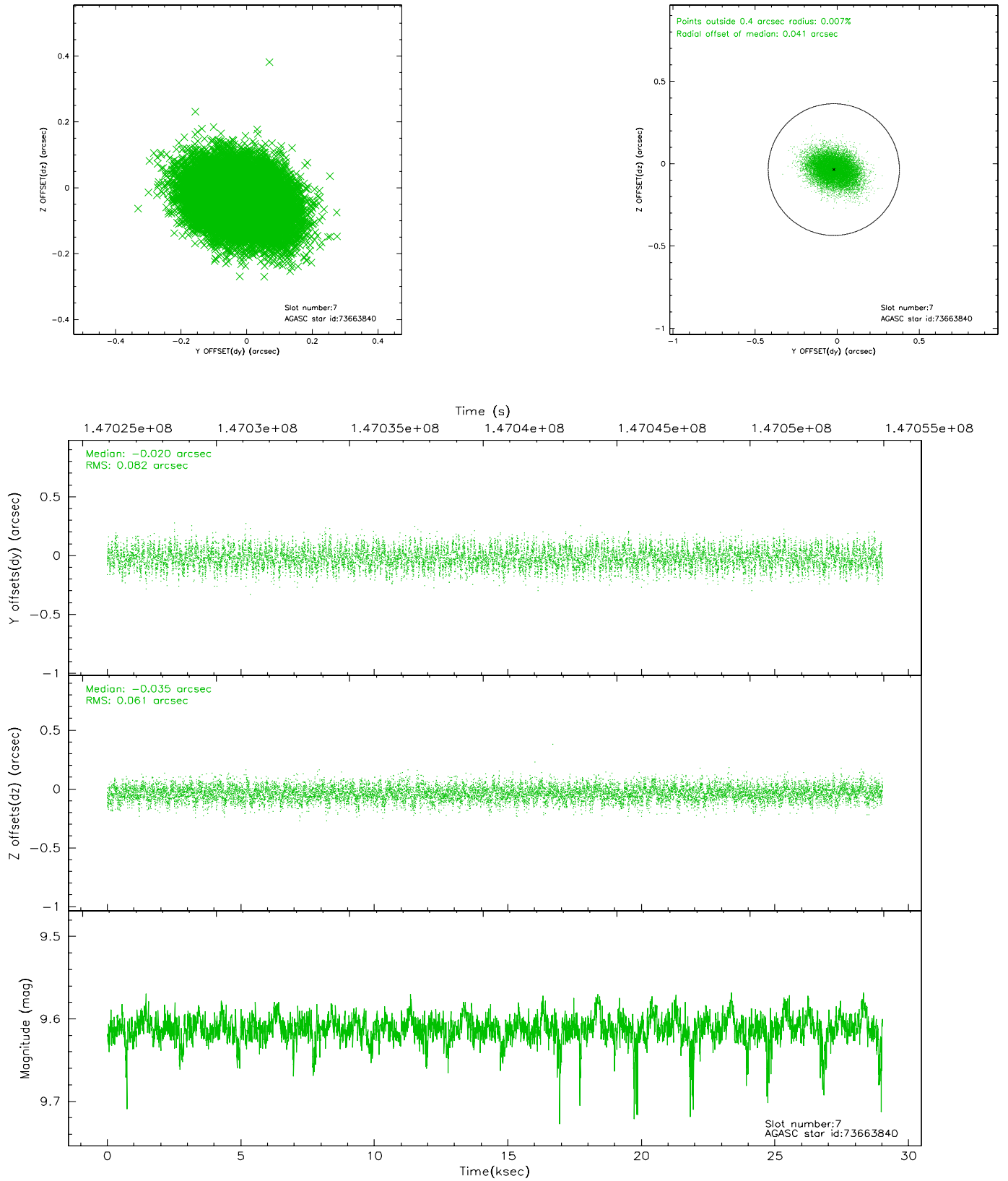
### 2.4.3 Slot 5



## 2.4.4 Slot 6

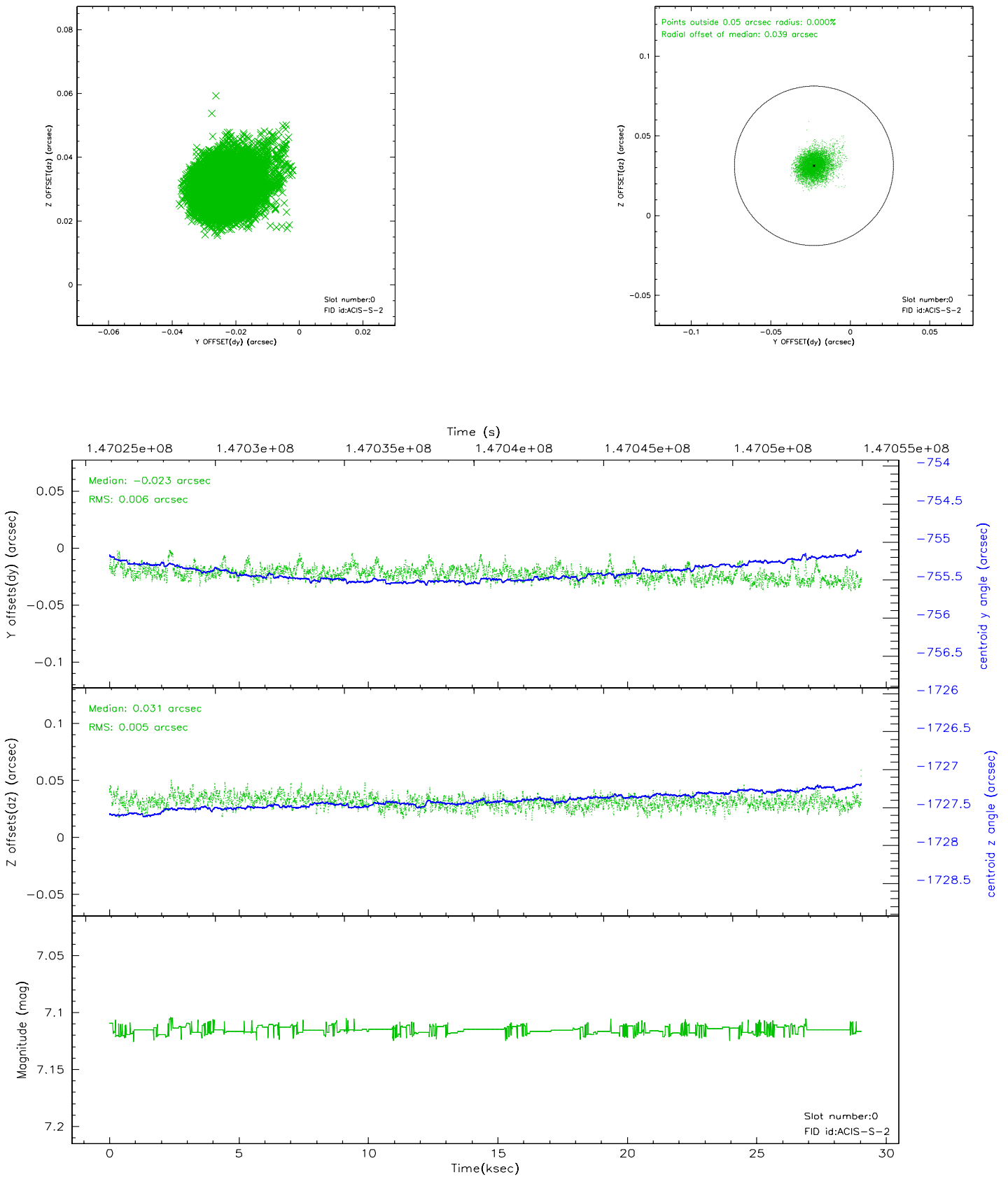


## 2.4.5 Slot 7

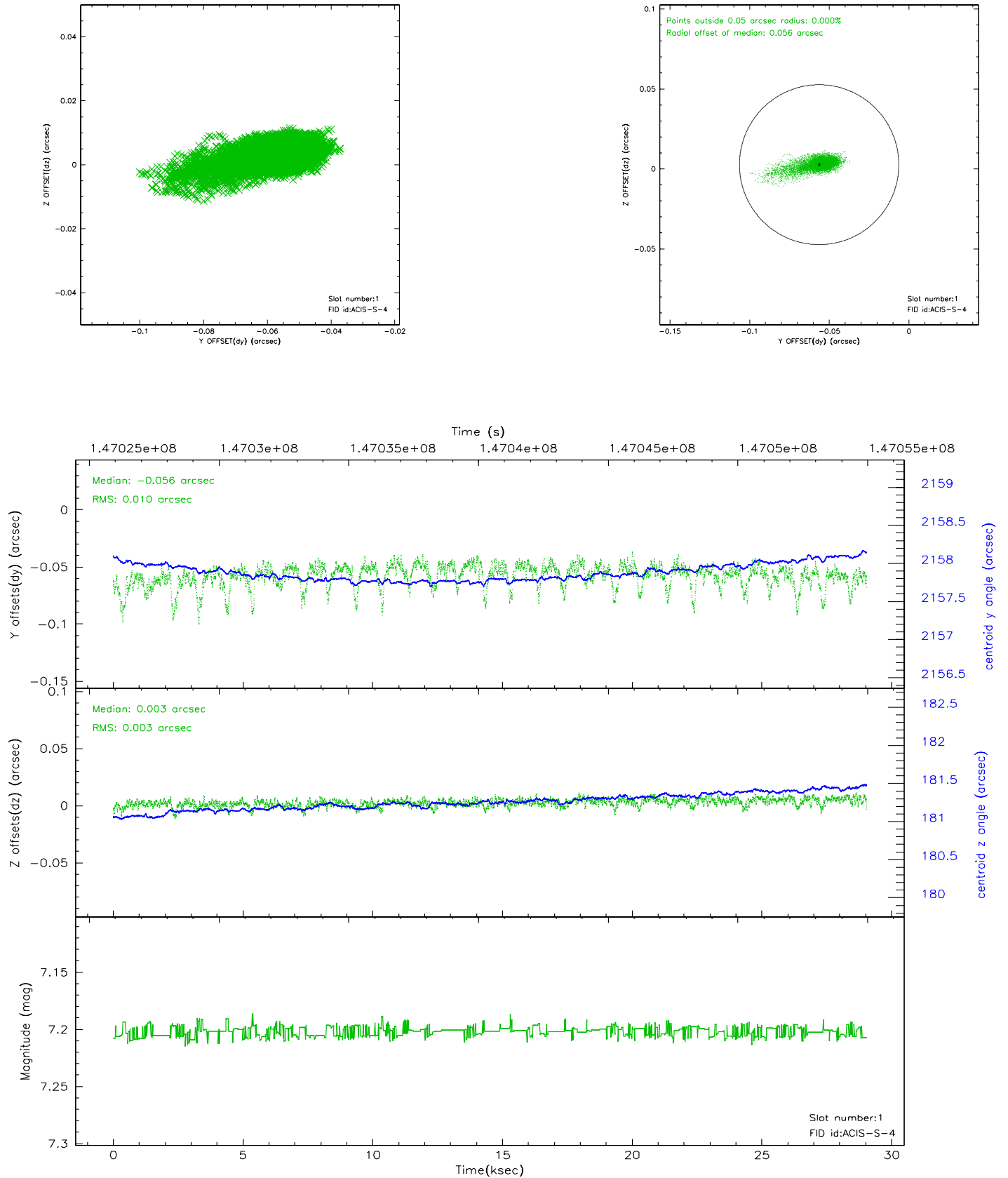


## 2.5 FID Slots

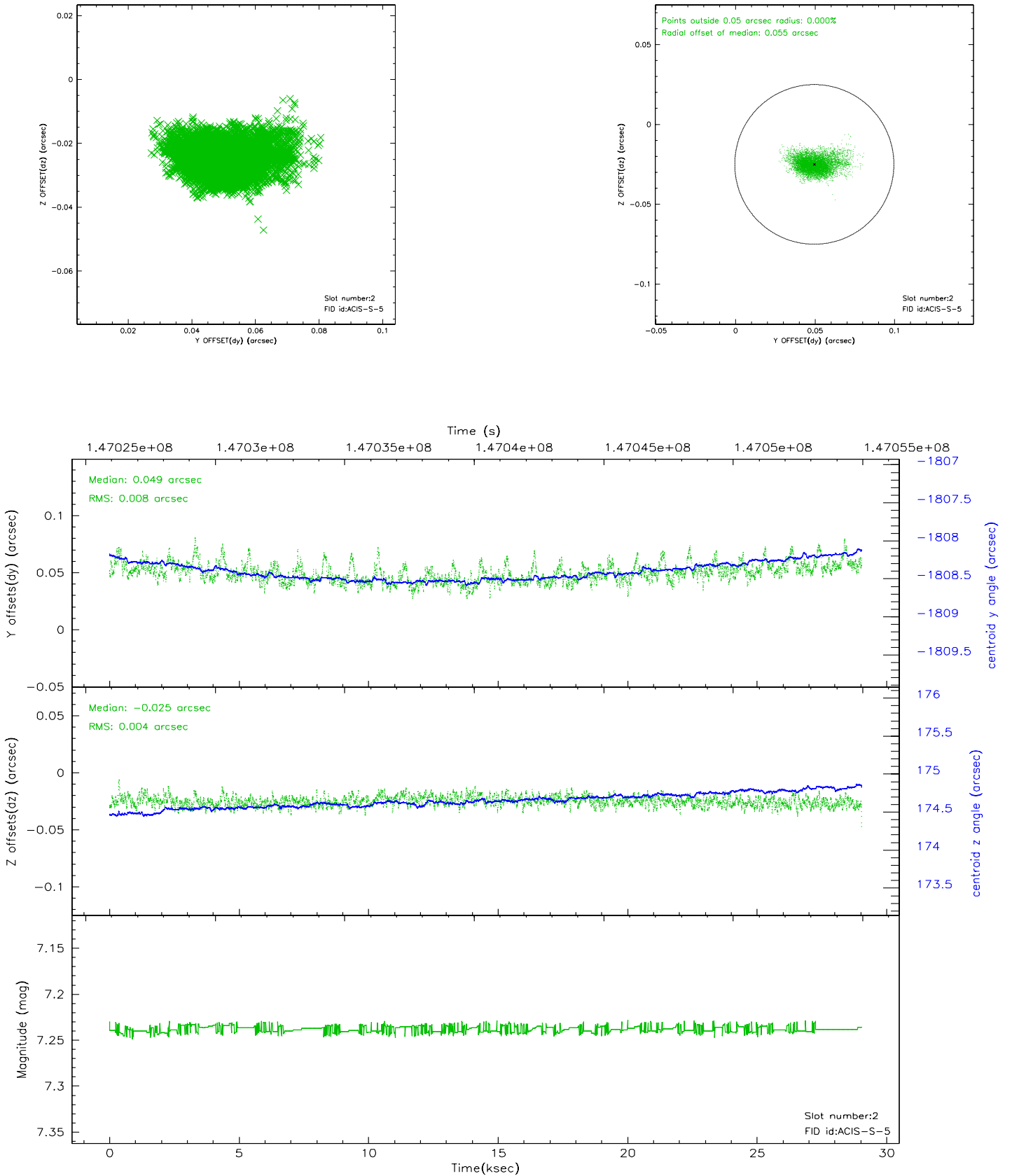
### 2.5.1 Slot 0



## 2.5.2 Slot 1



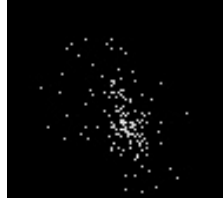
### 2.5.3 Slot 2





### 3 Point Sources

4.39 arcmin



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.041

### A.2 Comments

Roll preference met.