

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 4107 - L2 Version 001  
Chandra X-Ray Center

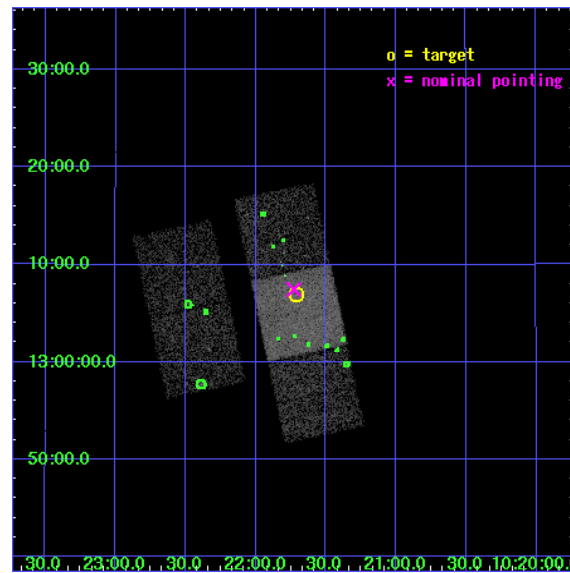
L2 Processing Date : Jul 20 2006

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# 1 Front

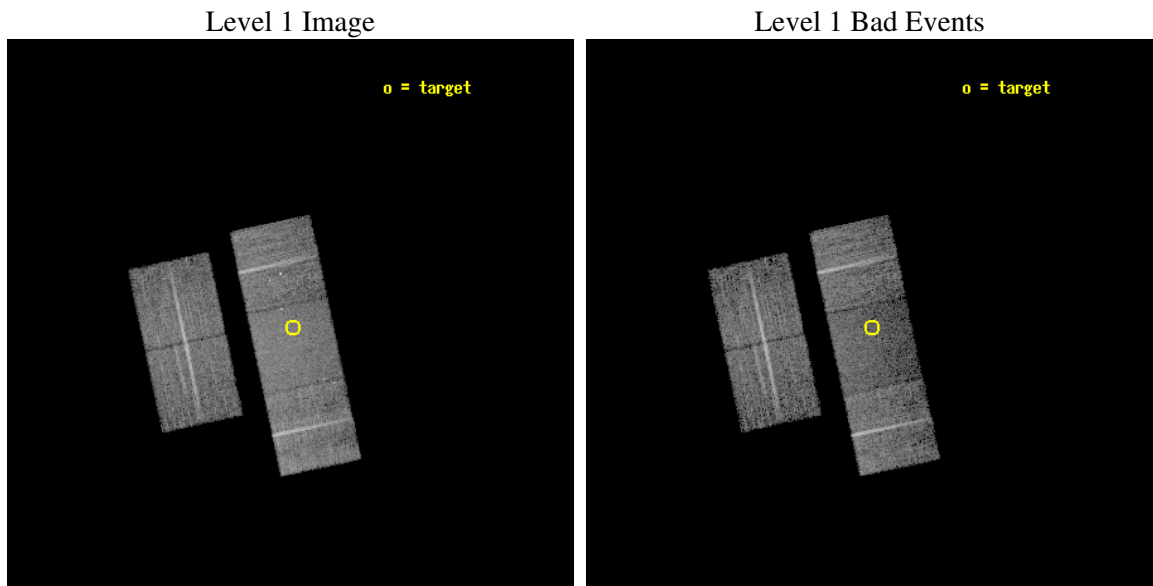
seq_num	700786
obs_id	4107
title	THE X-RAY PROPERTIES OF ULTRALUMINOUS INFRARED GALAXIES (ULIGS)
observer	Prof. Andrew Wilson
object	F10190+1322
dtcycle	0
cycle	P
ra_targ	155.428333
dec_targ	13.115361
ra_nom	155.43208816666
dec_nom	13.124287041059
roll_nom	77.942117059689
revision	2
ontime	10130.799980521
livetime	9998.4336205892
ontime2	10118.236079574
ontime3	10130.799980521
ontime6	10127.659000307
ontime7	10130.799980521
ontime8	10130.799980521
l2events	46298



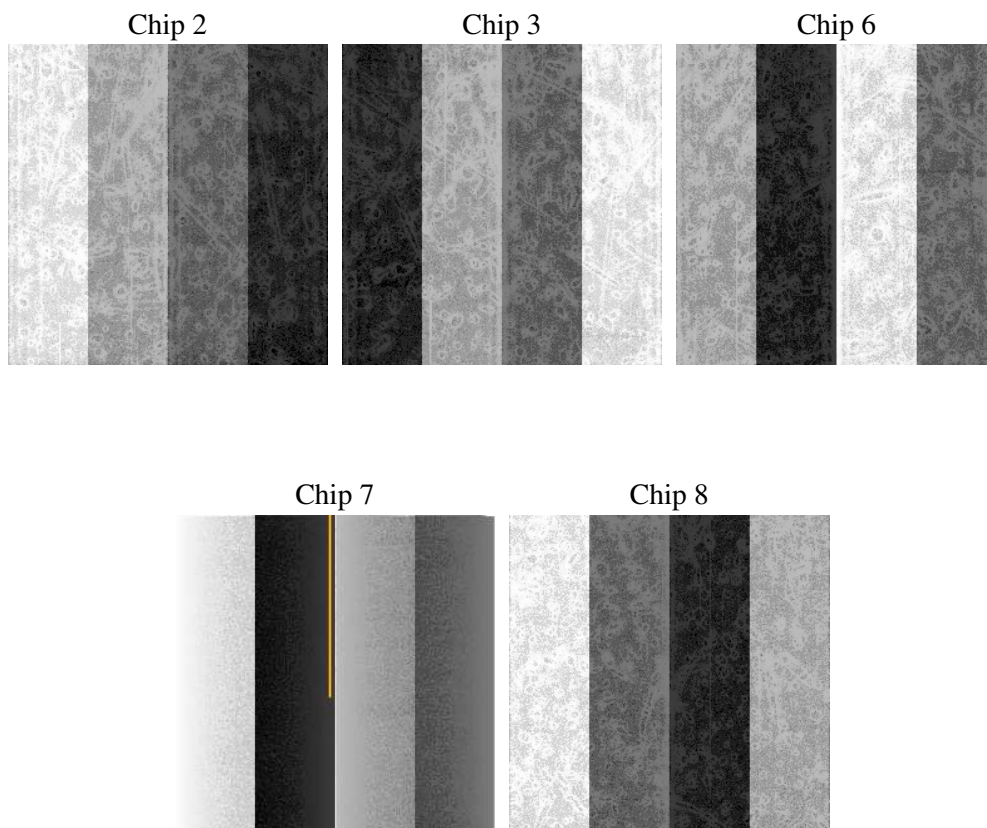
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldbver	3.2.2
date	2006-07-20T13:16:03
revision	2

sched_exp_time	10000.000000
ontime	10283.64879185
ontime2	10274.225911021
ontime3	10283.64879185
ontime6	10280.507811636
ontime7	10283.64879185
ontime8	10286.789811969
l1events	298602

### 2.1.4 Events

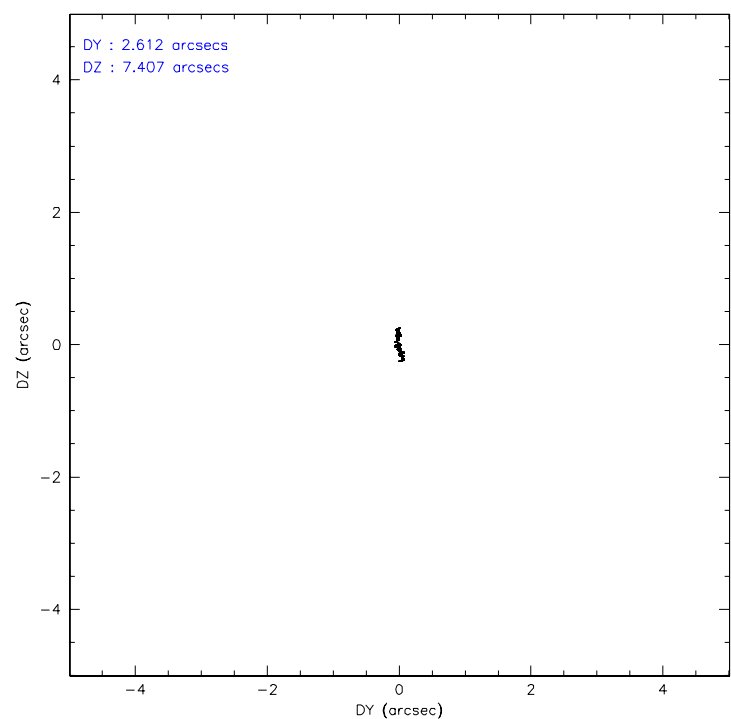
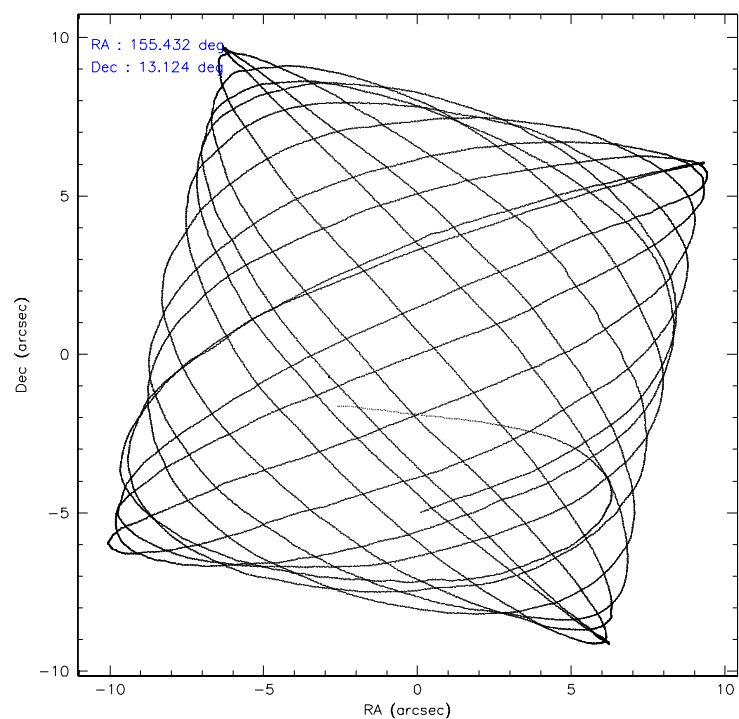
	<b>ccd 2</b>	<b>ccd 3</b>	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
level 1 events	54490	53505	59692	61671	69244
rejected events	49368	48491	52940	34931	54075
rejected %	90%	90%	88%	56%	78%

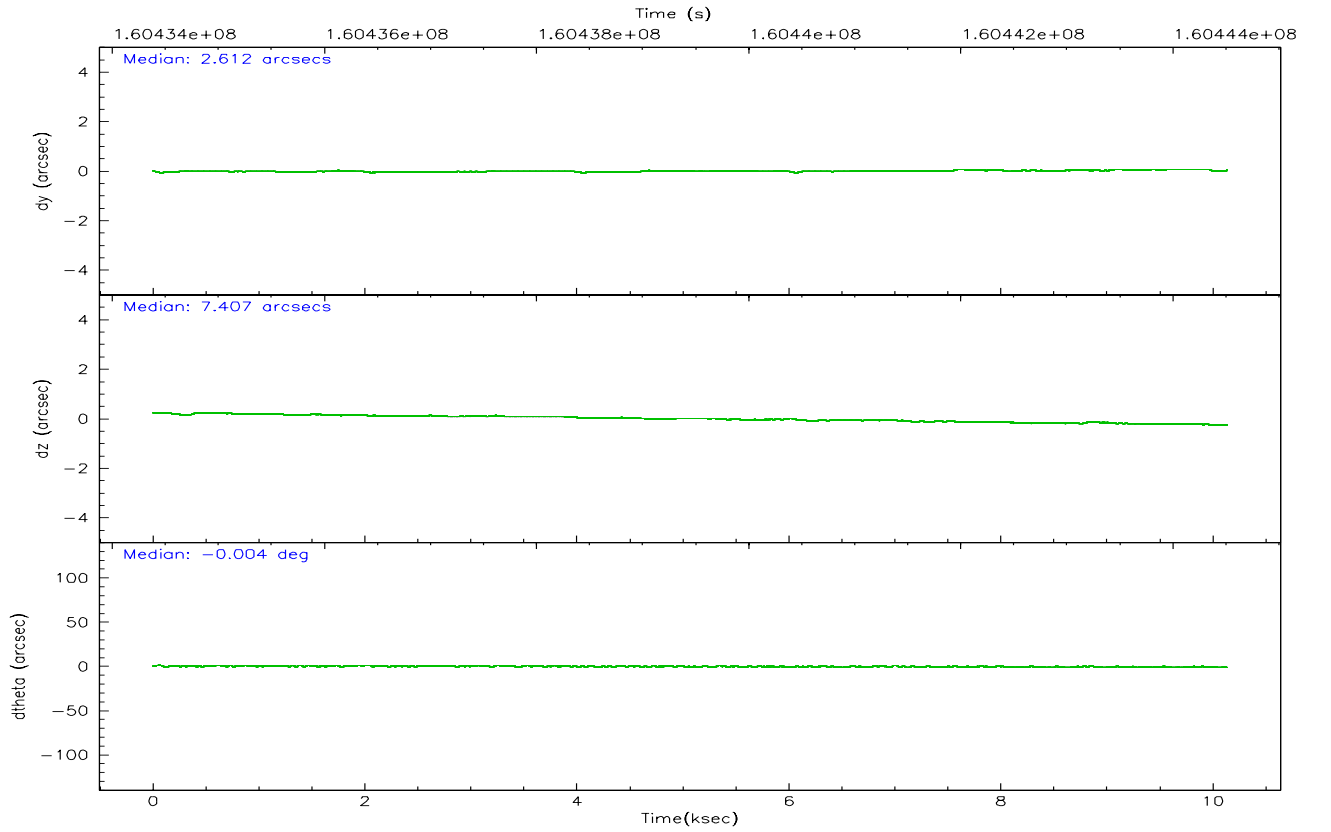
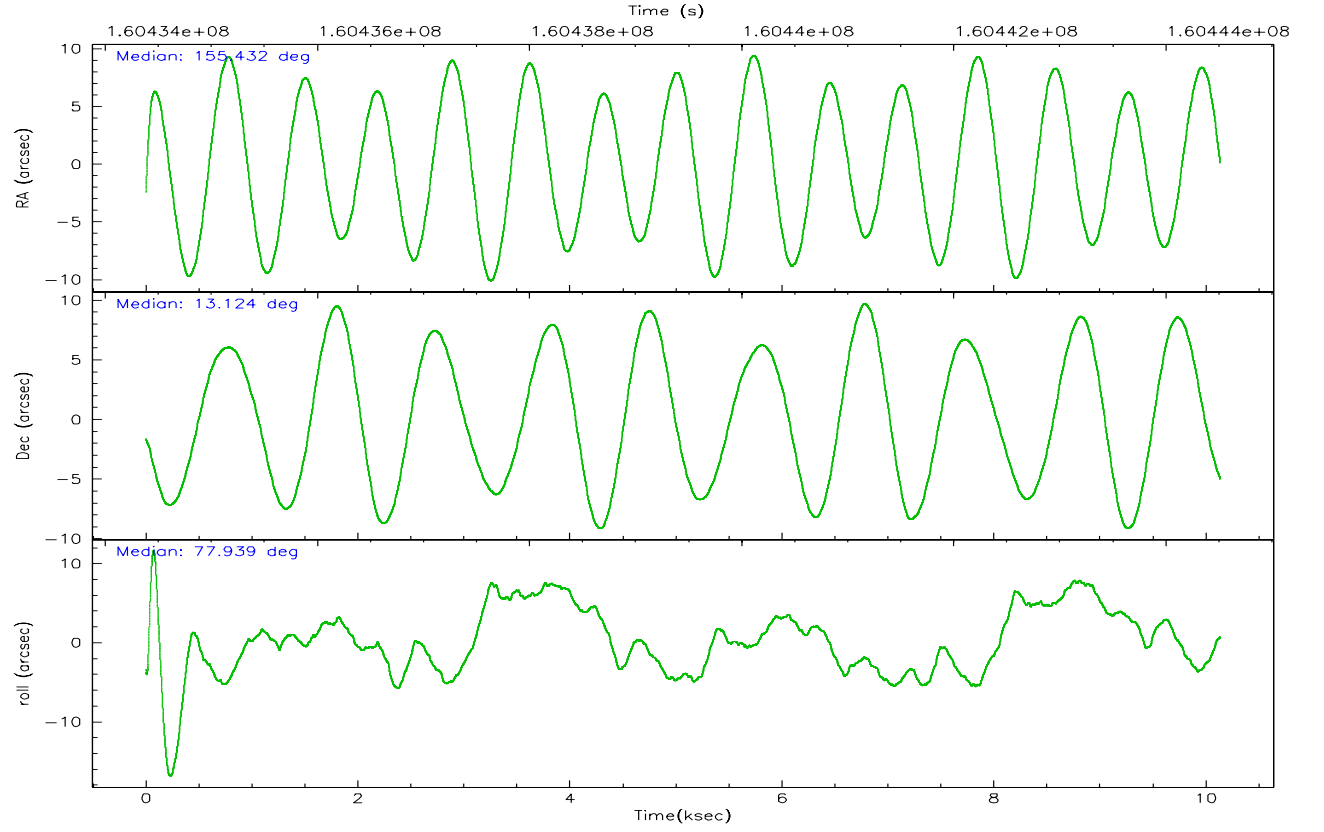
	<b>ccd 2</b>	<b>ccd 3</b>	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
grade 0 events	1915	1800	2890	1843	4835
	3%	3%	4%	2%	6%
grade 1 events	27	30	36	29	57
	0%	0%	0%	0%	0%
grade 2 events	1167	1063	1302	6707	3305
	2%	1%	2%	10%	4%
grade 3 events	605	606	688	1704	1705
	1%	1%	1%	2%	2%
grade 4 events	598	583	682	1578	1650
	1%	1%	1%	2%	2%
grade 5 events	1682	2020	2241	4665	3090
	3%	3%	3%	7%	4%
grade 6 events	914	1029	1267	15361	3916
	1%	1%	2%	24%	5%
grade 7 events	47582	46374	50586	29784	50686
	87%	86%	84%	48%	73%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	155.441048	155.4320881666551	Alternating exposures requested	N	N
Pointing Dec	13.098526	13.12428704105892	Primary exposure time	0.000000	3.1
Pointing Roll	77.783480	77.9421170596886			
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	160434520.184000	160433470.75393			
Observation start date	2003-01-31T21:07:36	2003-01-31T20:51:10			
Observation end time	160444520.184000	160445090.15441			
Observation end date	2003-01-31T23:54:16	2003-02-01T00:04:50			
Read mode	TIMED	TIMED			

## 2.3 Aspect





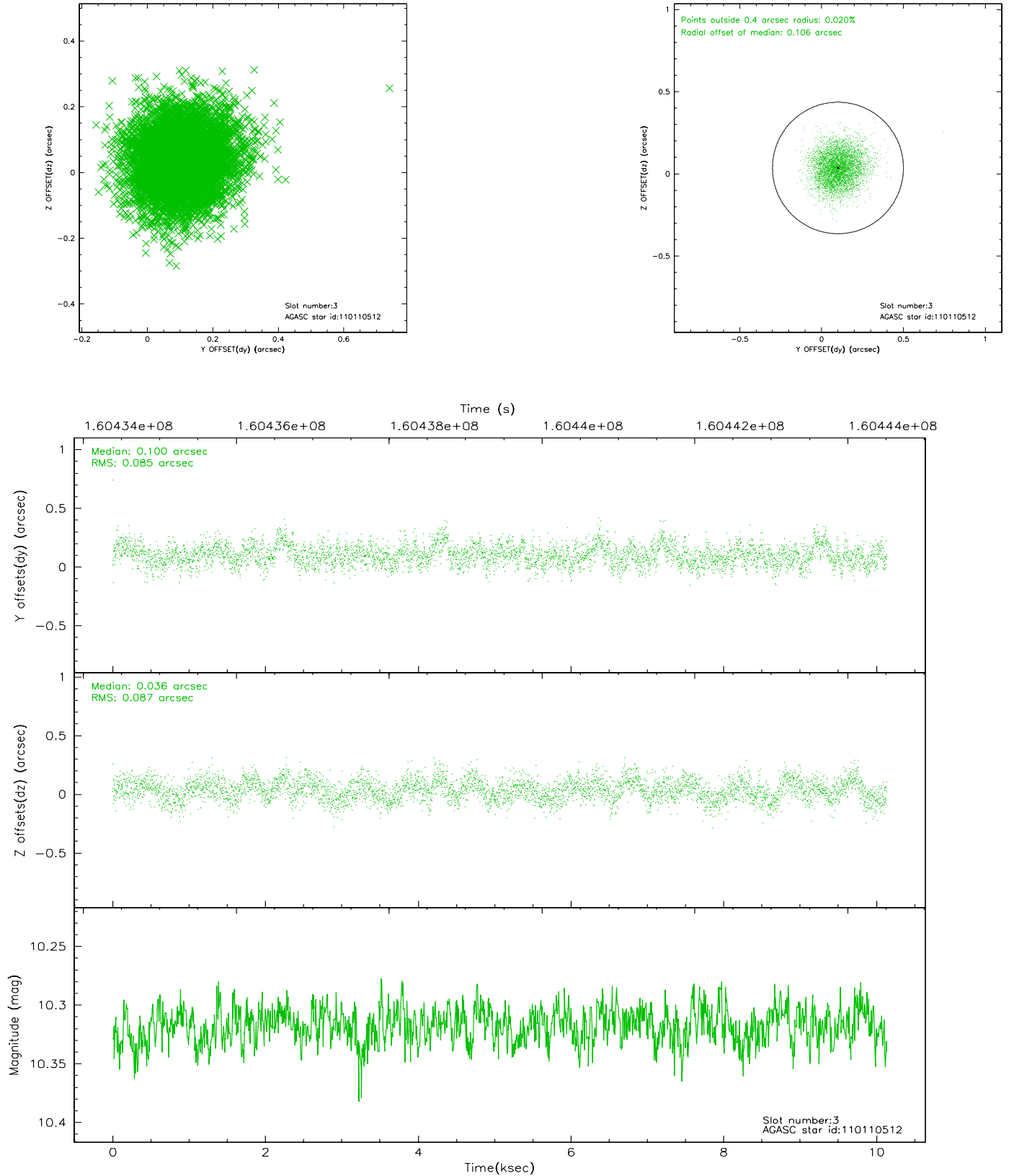
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	2472	-0.005	0.024	0.008	0.013	0.000000	0.000000	-755.25	-1728.56
1	FID	ACIS-S-4	7.20	2472	-0.058	-0.004	0.007	0.012	0.000000	0.000000	2157.74	179.36
2	FID	ACIS-S-5	7.23	2472	0.032	-0.012	0.006	0.010	0.000000	0.000000	-1807.38	173.61
3	GUIDE	110110512	10.32	4940	0.100	0.036	0.131	0.208	155.729481	12.490843	-1922.45	-1453.39
4	GUIDE	110630112	9.48	4940	-0.136	0.126	0.103	0.163	156.114290	13.274051	1119.88	-2170.94
5	GUIDE	110633832	9.61	4937	-0.061	0.095	0.101	0.162	156.003960	12.948898	-105.81	-2043.83
6	GUIDE	110634680	8.75	4942	-0.030	-0.091	0.104	0.165	156.196398	13.589213	2290.19	-2208.90
7	GUIDE	110111232	9.59	4932	0.122	-0.164	0.094	0.157	155.513352	12.428358	-2303.18	-759.34

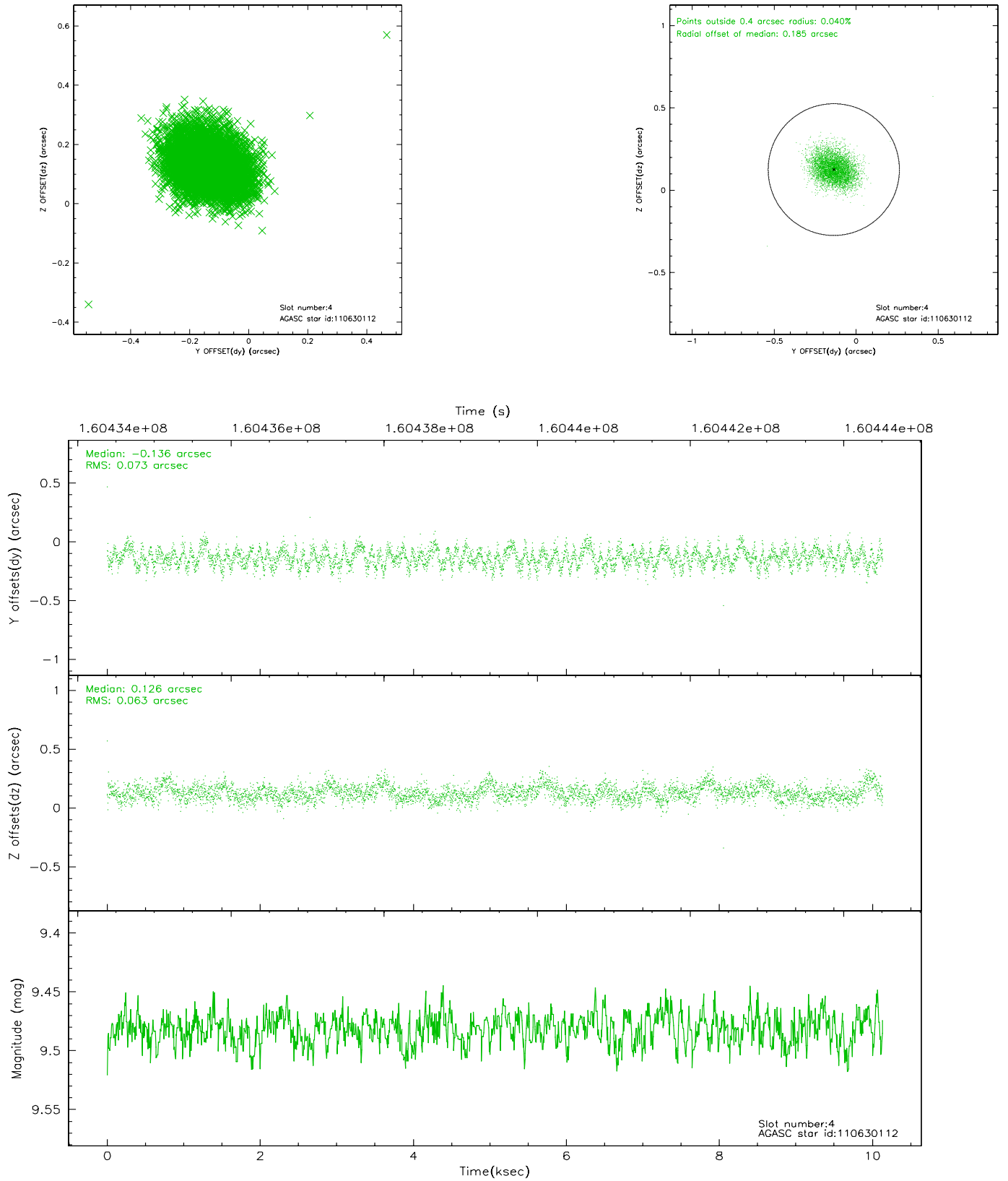


## 2.4 Star Slots

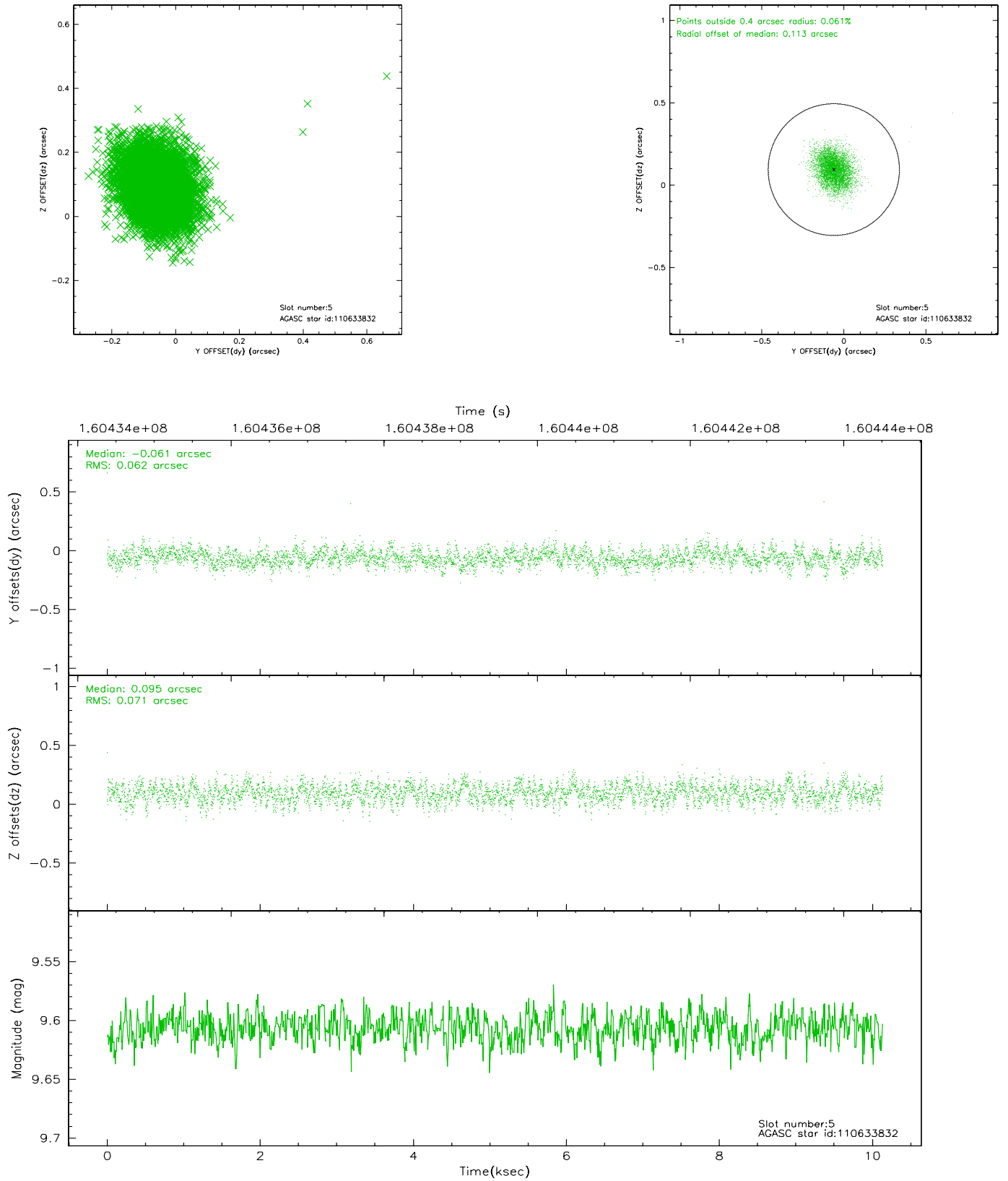
### 2.4.1 Slot 3



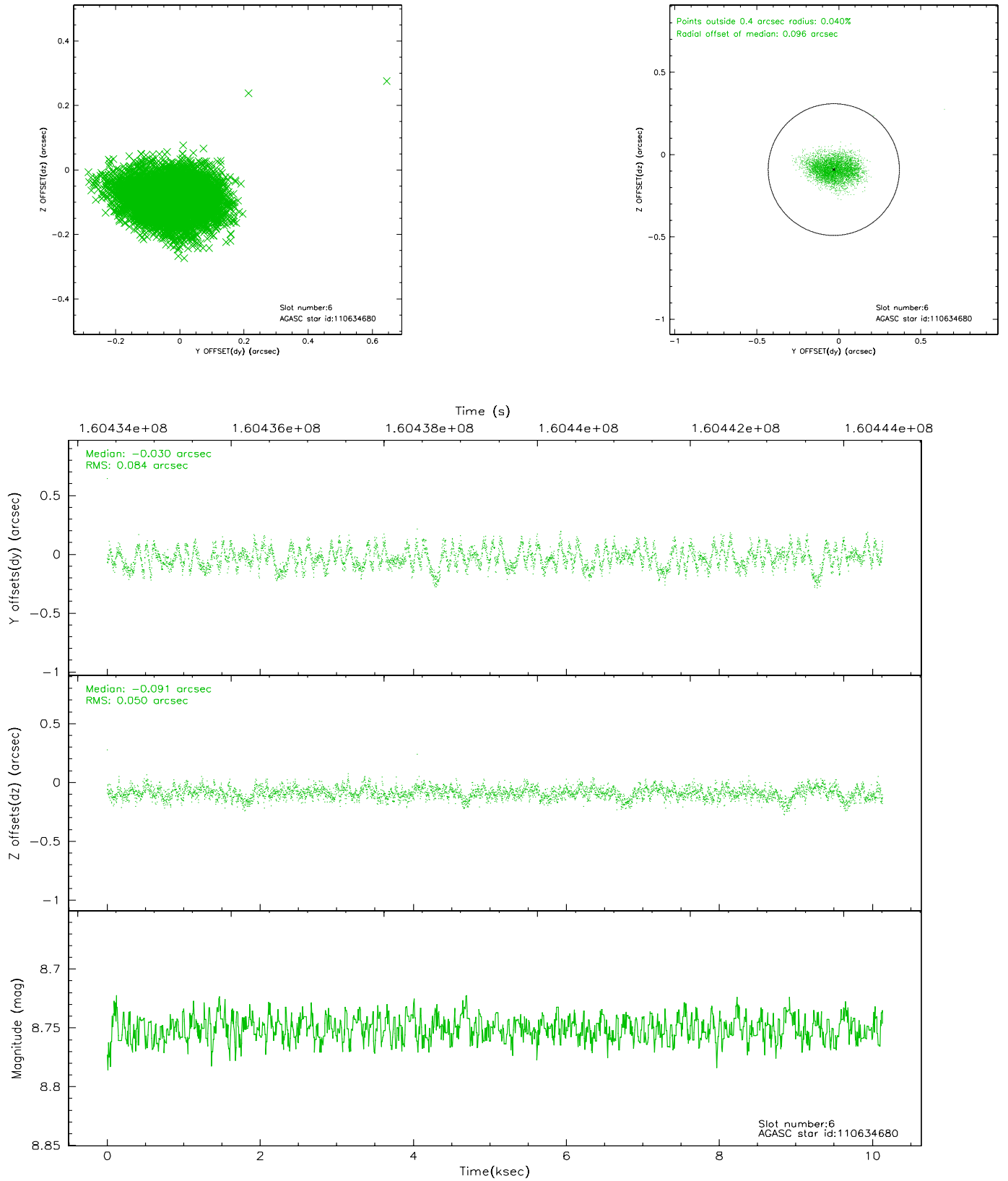
## 2.4.2 Slot 4



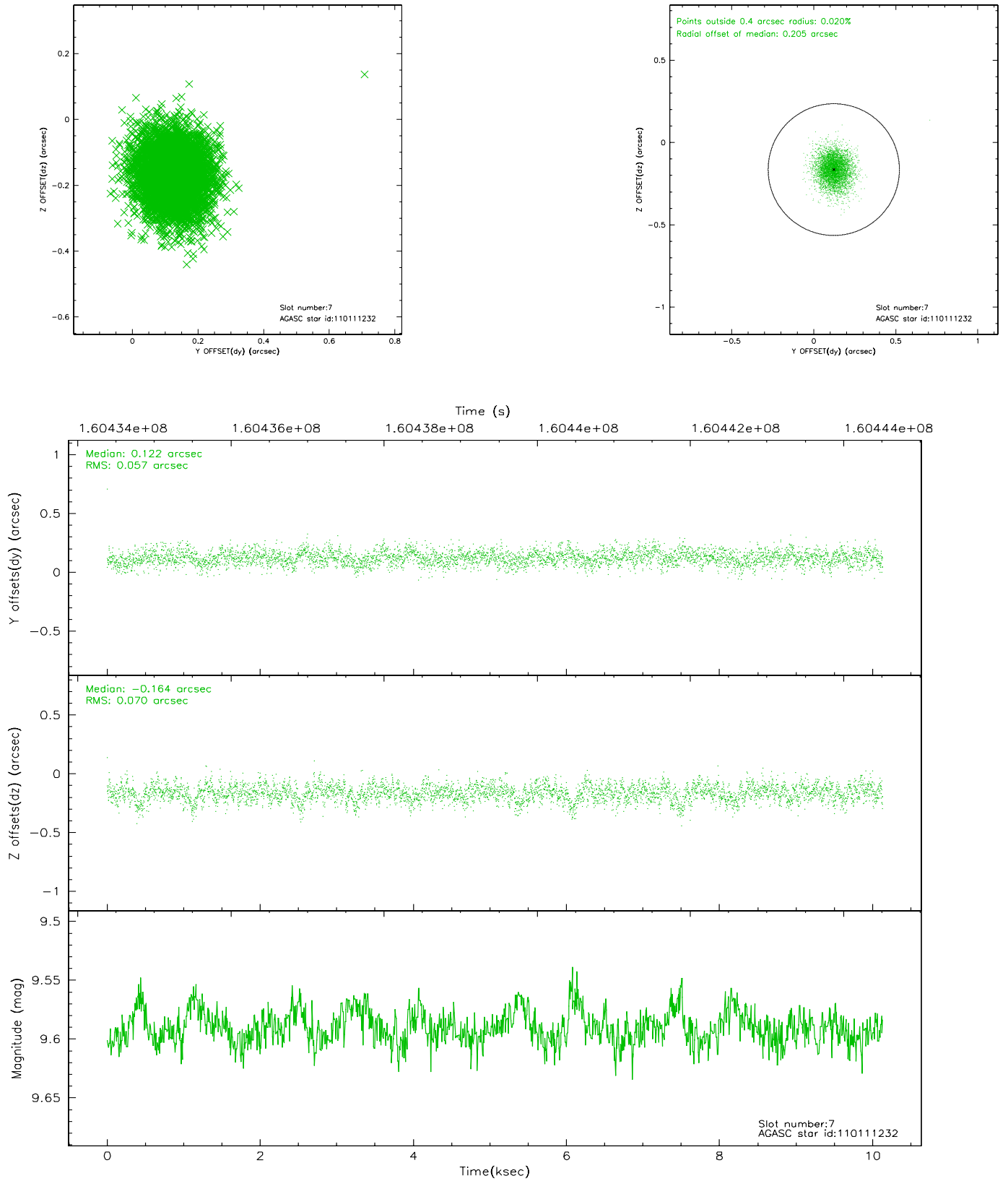
### 2.4.3 Slot 5



## 2.4.4 Slot 6

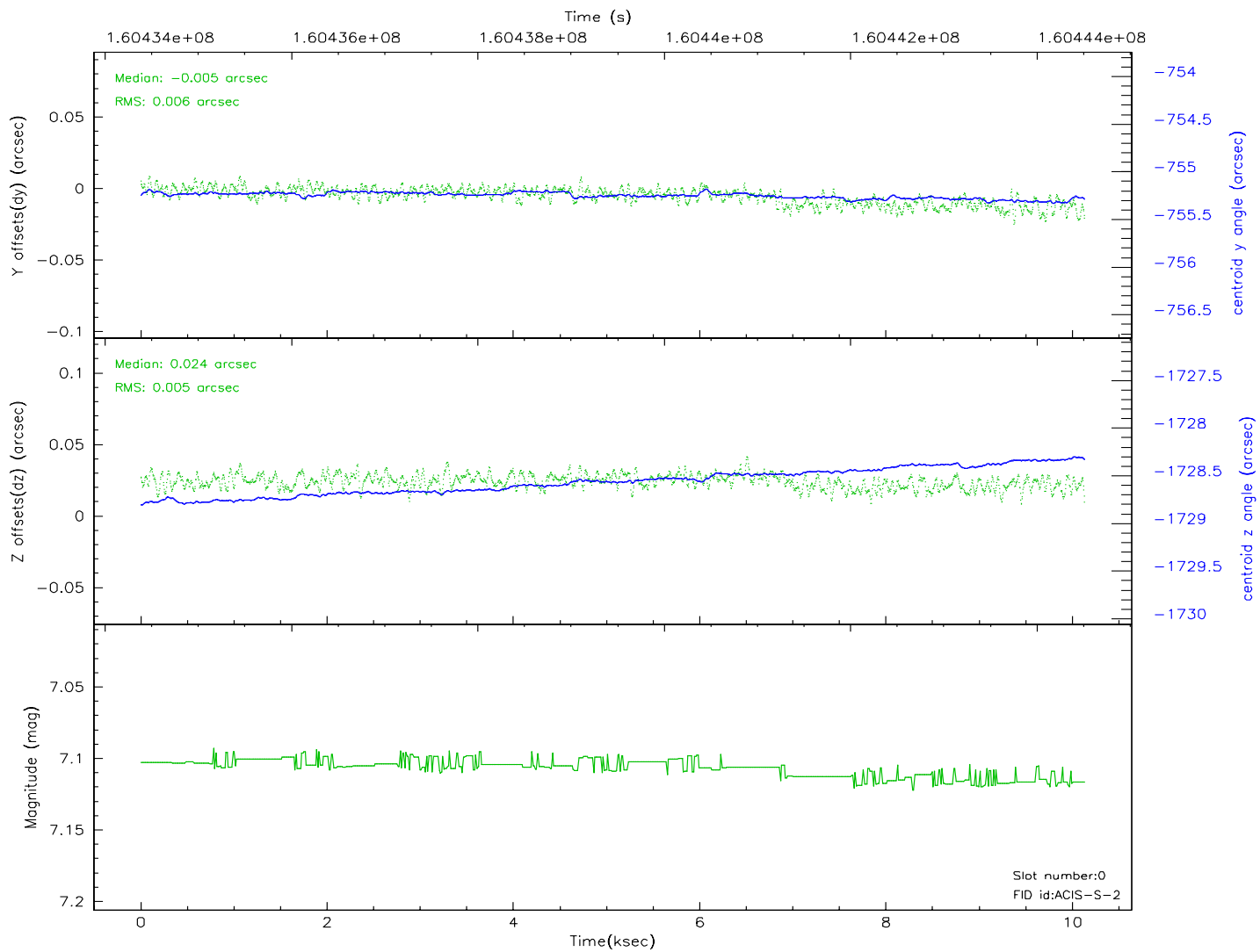
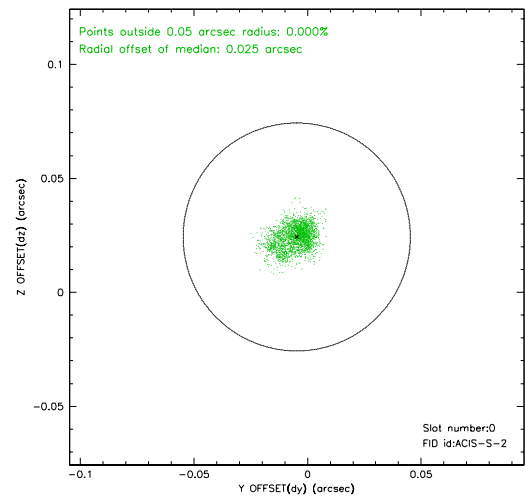
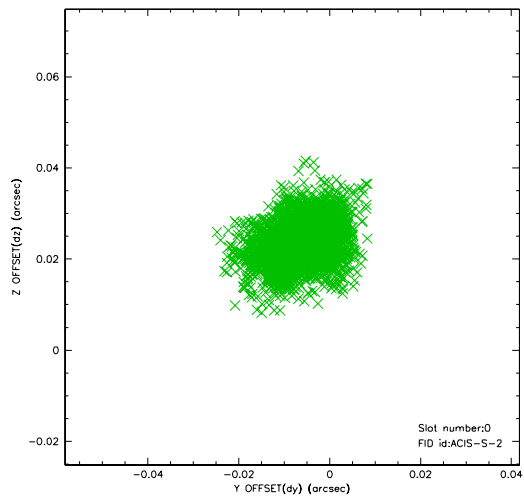


## 2.4.5 Slot 7

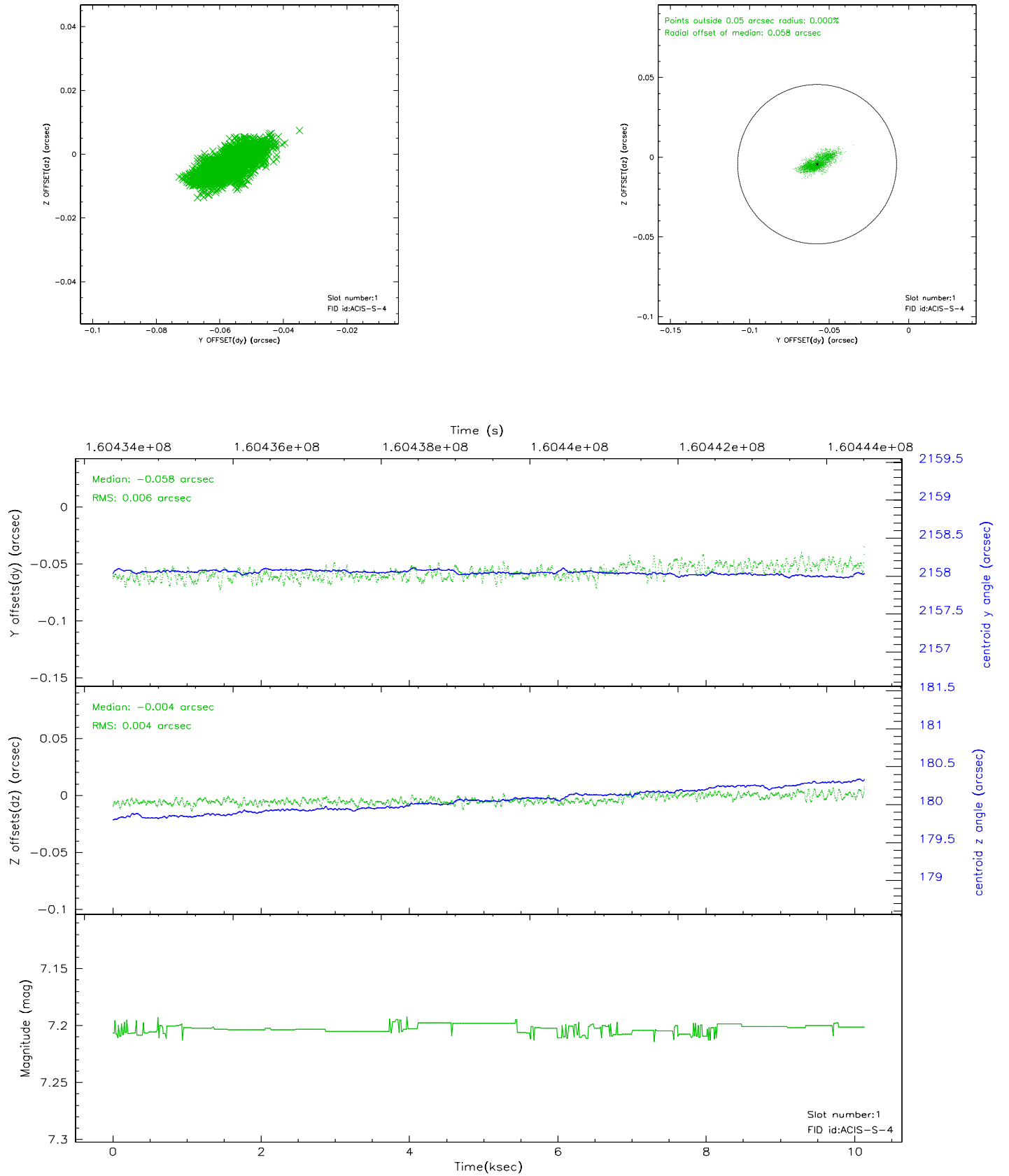


## 2.5 FID Slots

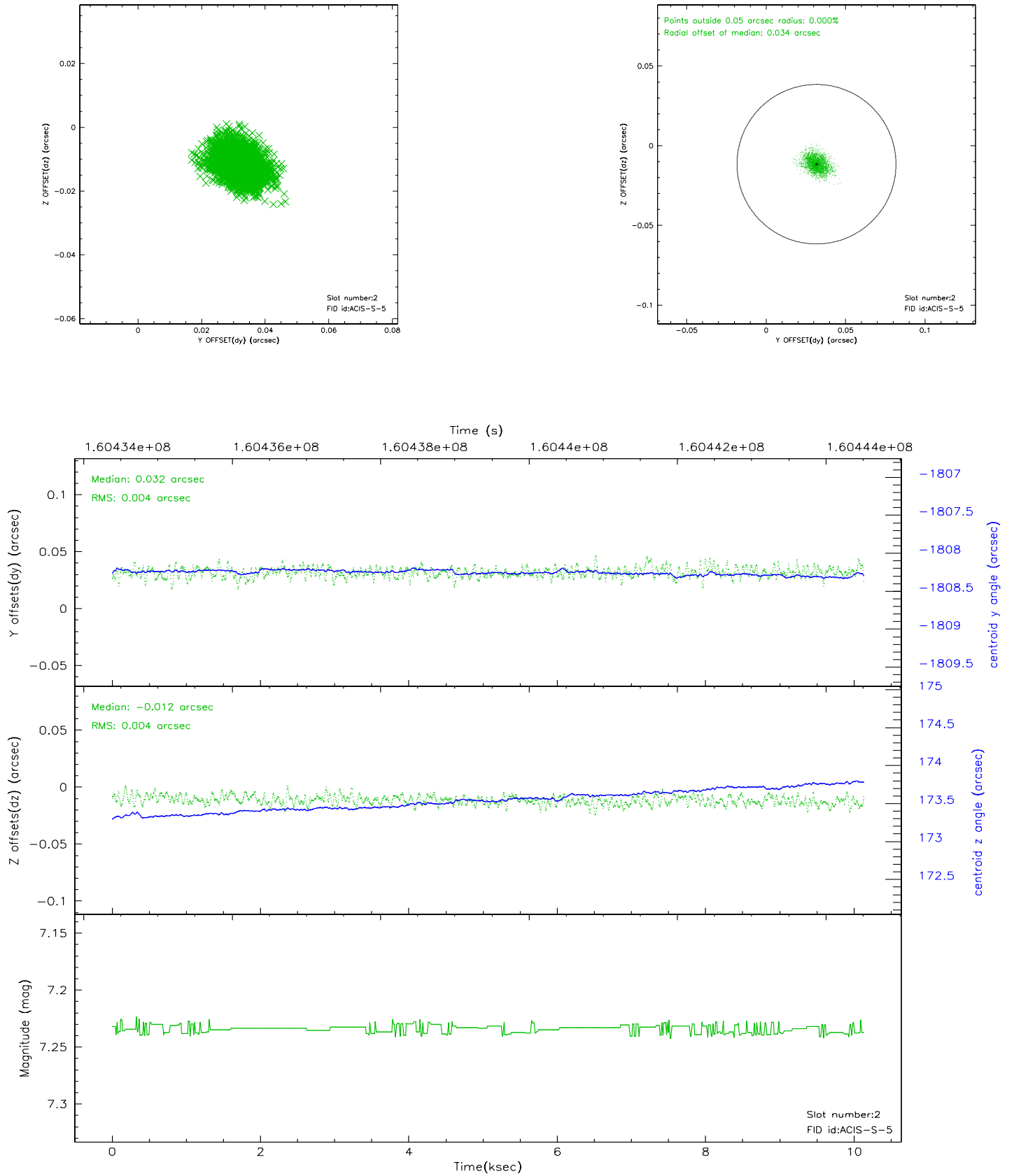
### 2.5.1 Slot 0



## 2.5.2 Slot 1

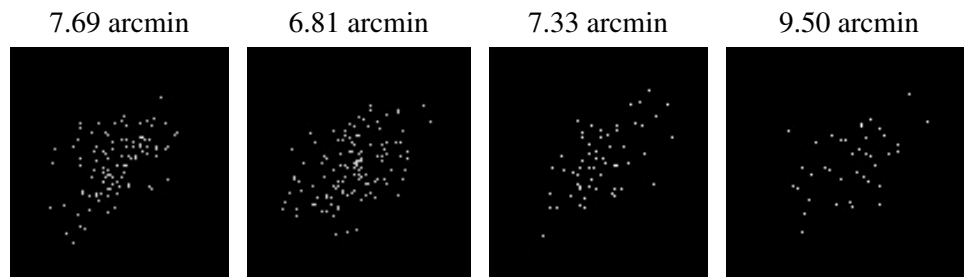


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.07.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.13

### A.2 Comments