

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 3938 - L2 Version 001  
Chandra X-Ray Center

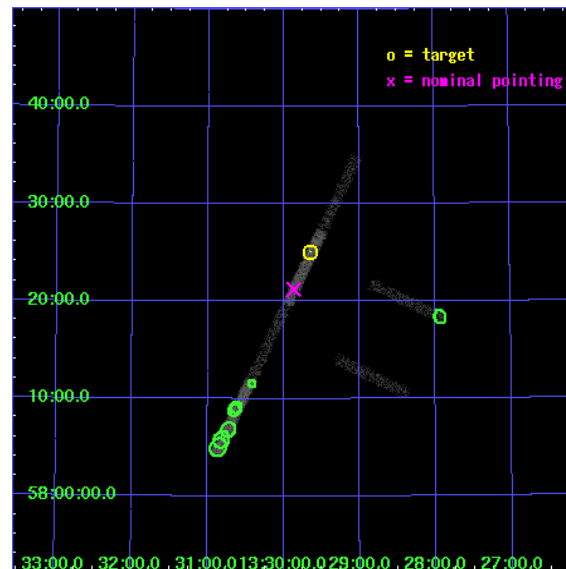
L2 Processing Date : Jul 11 2006

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# 1 Front

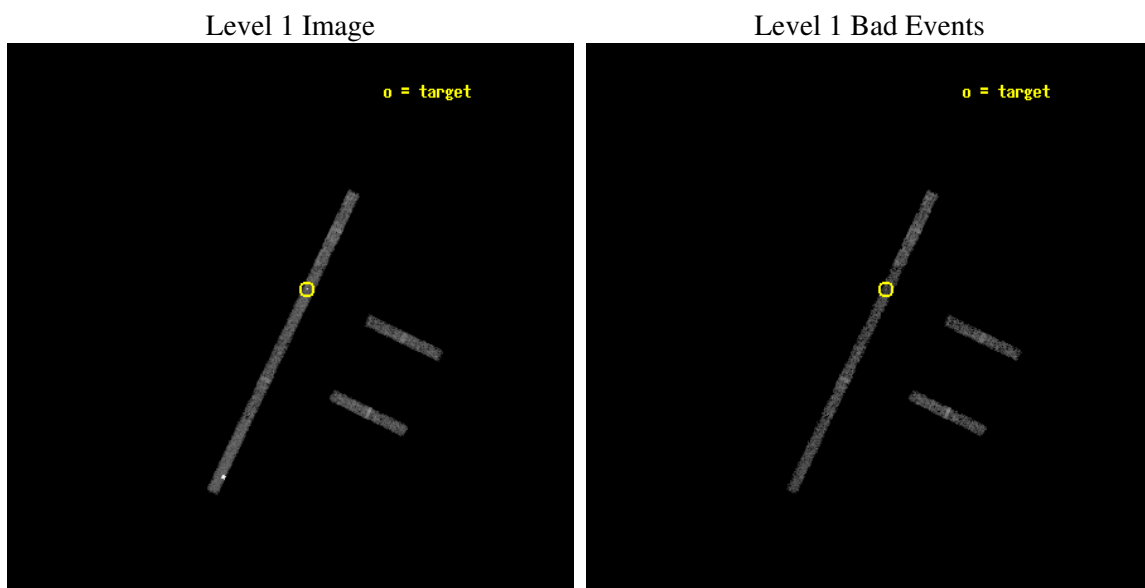
seq_num	600312
obs_id	3938
title	PROBING THE SPECTRAL VARIABILITY OF THE ULTRALUMINOUS X-RAY SOURCE NGC 5204 X-1
observer	Dr Timothy Roberts
object	NGC 5204 X-1
dtcycle	0
cycle	P
ra_targ	202.410833
dec_targ	58.418333
ra_nom	202.46629672738
dec_nom	58.353850846989
roll_nom	295.72245760406
revision	2
ontime	5450.8999071717
livetime	5149.0202081132
ontime2	5450.8999071717
ontime3	5450.8999071717
ontime5	5450.8999071717
ontime6	5450.8999071717
ontime7	5450.8999071717
ontime8	5450.8999071717
l2events	7898



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 2

Chip 3

Chip 5



Chip 6

Chip 7

Chip 8



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldbver	3.2.2
date	2006-07-11T09:34:46
revision	2

sched_exp_time	4938.847000
ontime	5452.5044132769
ontime2	5452.5044132769
ontime3	5452.5044132769
ontime5	5452.5044132769
ontime6	5452.5044132769
ontime7	5452.5044132769
ontime8	5452.5044132769
l1events	45596

### 2.1.4 Events

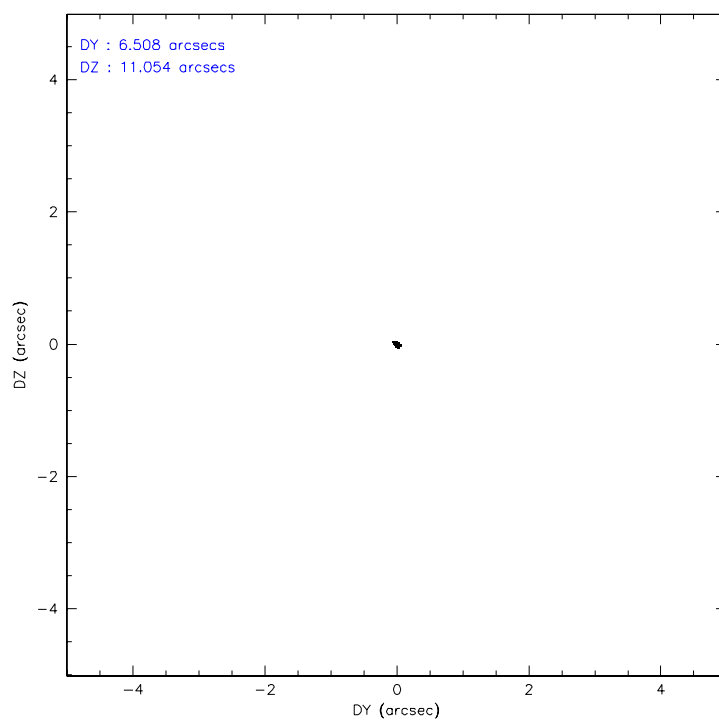
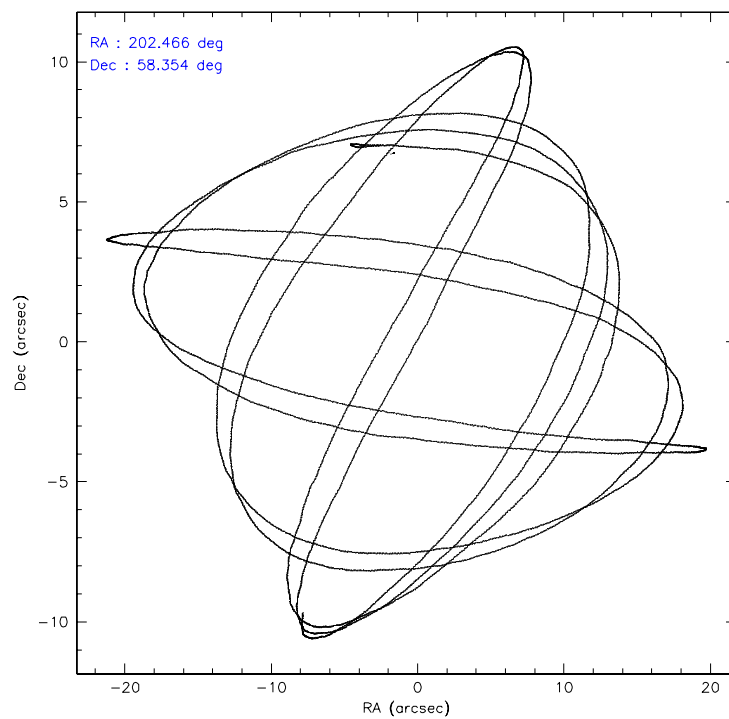
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	6099	5483	13414	5833	6863	7904
rejected events	5405	4855	4013	5172	3766	6593
rejected %	88%	88%	29%	88%	54%	83%

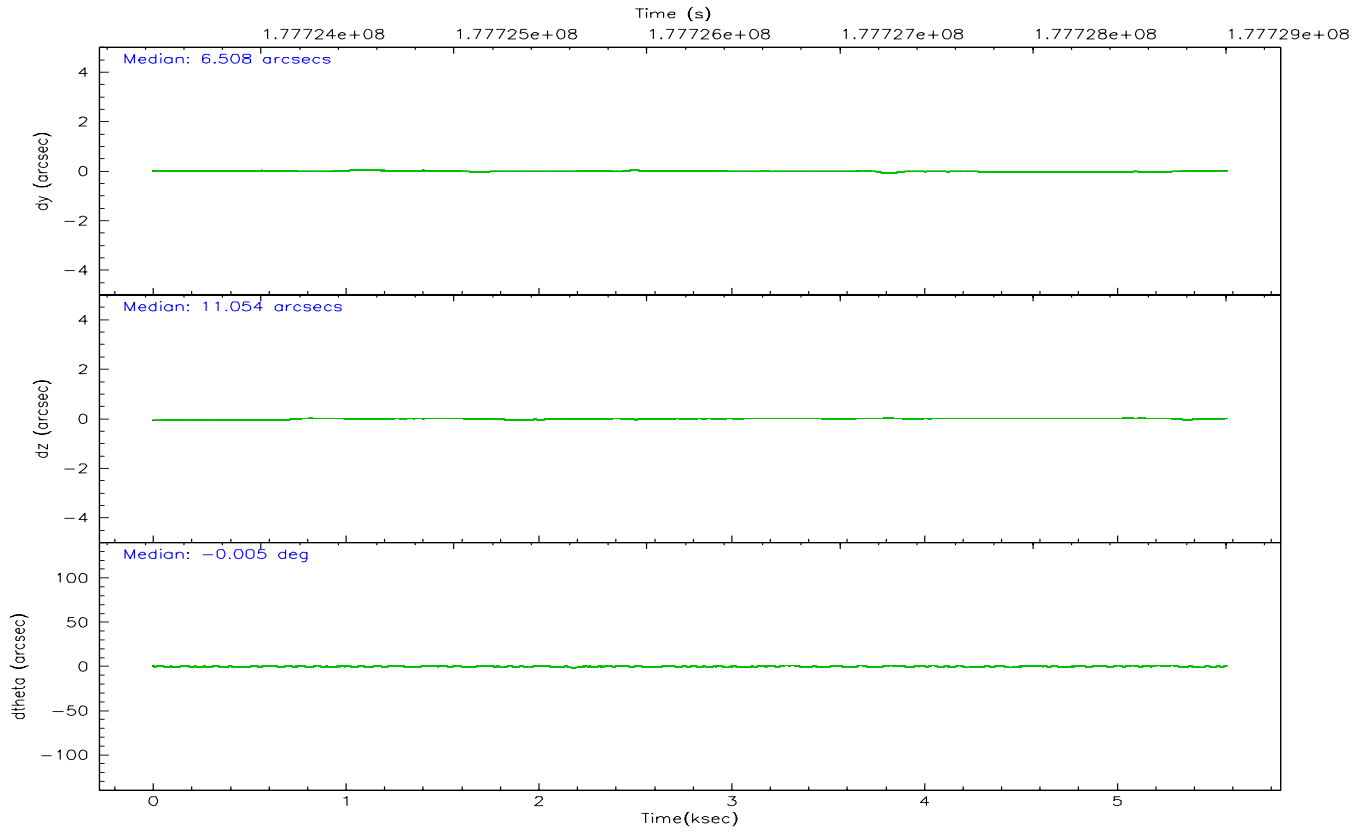
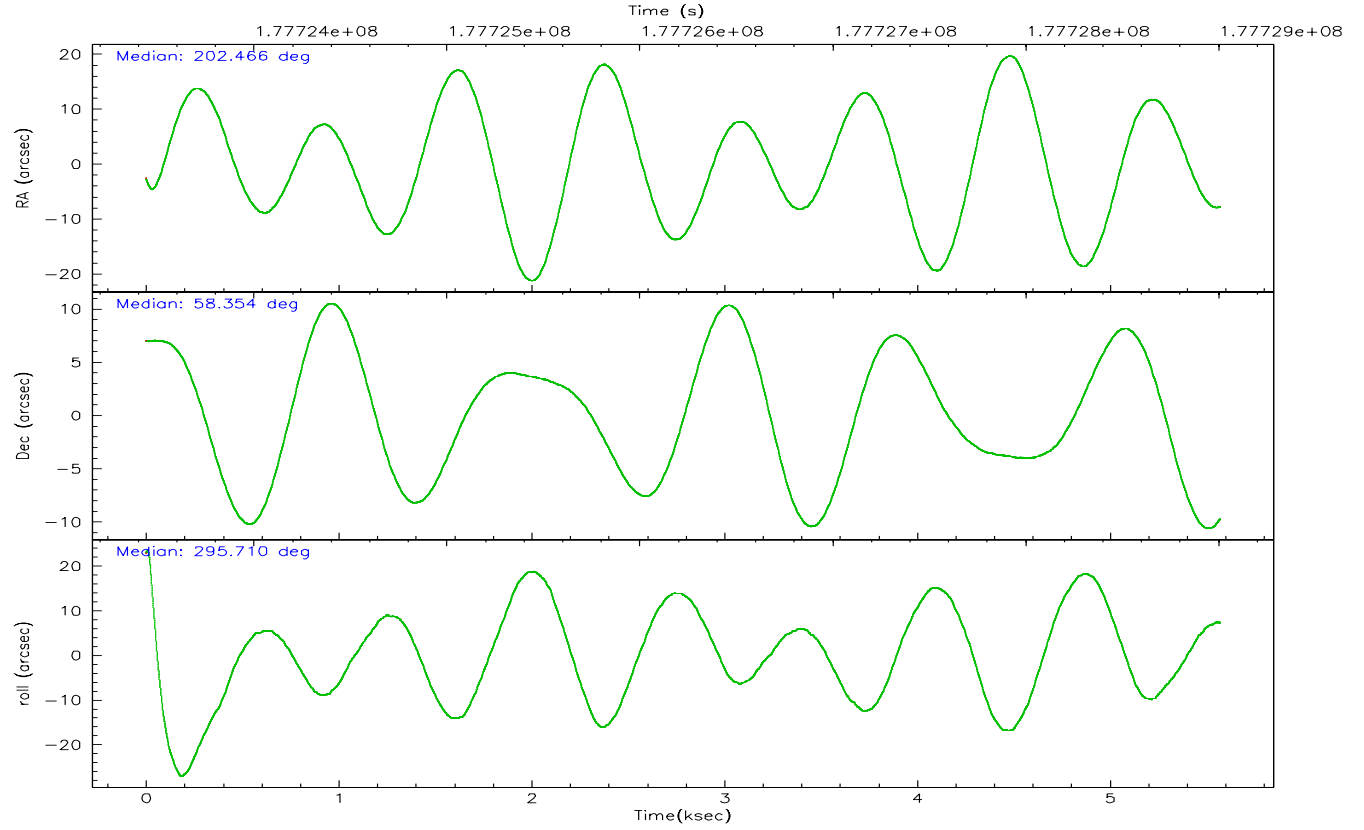
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	246	219	4775	216	427	364
	4%	3%	35%	3%	6%	4%
grade 1 events	0	0	16	0	2	0
	0%	0%	0%	0%	0%	0%
grade 2 events	151	101	2645	112	772	245
	2%	1%	19%	1%	11%	3%
grade 3 events	110	114	150	108	270	155
	1%	2%	1%	1%	3%	1%
grade 4 events	91	90	221	102	273	131
	1%	1%	1%	1%	3%	1%
grade 5 events	164	182	387	217	472	250
	2%	3%	2%	3%	6%	3%
grade 6 events	97	104	1612	123	1357	416
	1%	1%	12%	2%	19%	5%
grade 7 events	5240	4673	3608	4955	3290	6343
	85%	85%	26%	84%	47%	80%

## 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	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	1/8	1/8
Pointing RA	202.422905	202.4662967273826	Subarray start row	0	449
Pointing Dec	58.368877	58.35385084698895	Subarray row count	1024	128
Pointing Roll	295.602691	295.7224576040609	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	0.7
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	177724072.184000	177722886.53605			
Observation start date	2003-08-19T23:46:48	2003-08-19T23:28:06			
Observation end time	177729011.184000	177729325.58632			
Observation end date	2003-08-20T01:09:07	2003-08-20T01:15:25			
Read mode	TIMED	TIMED			

## 2.3 Aspect





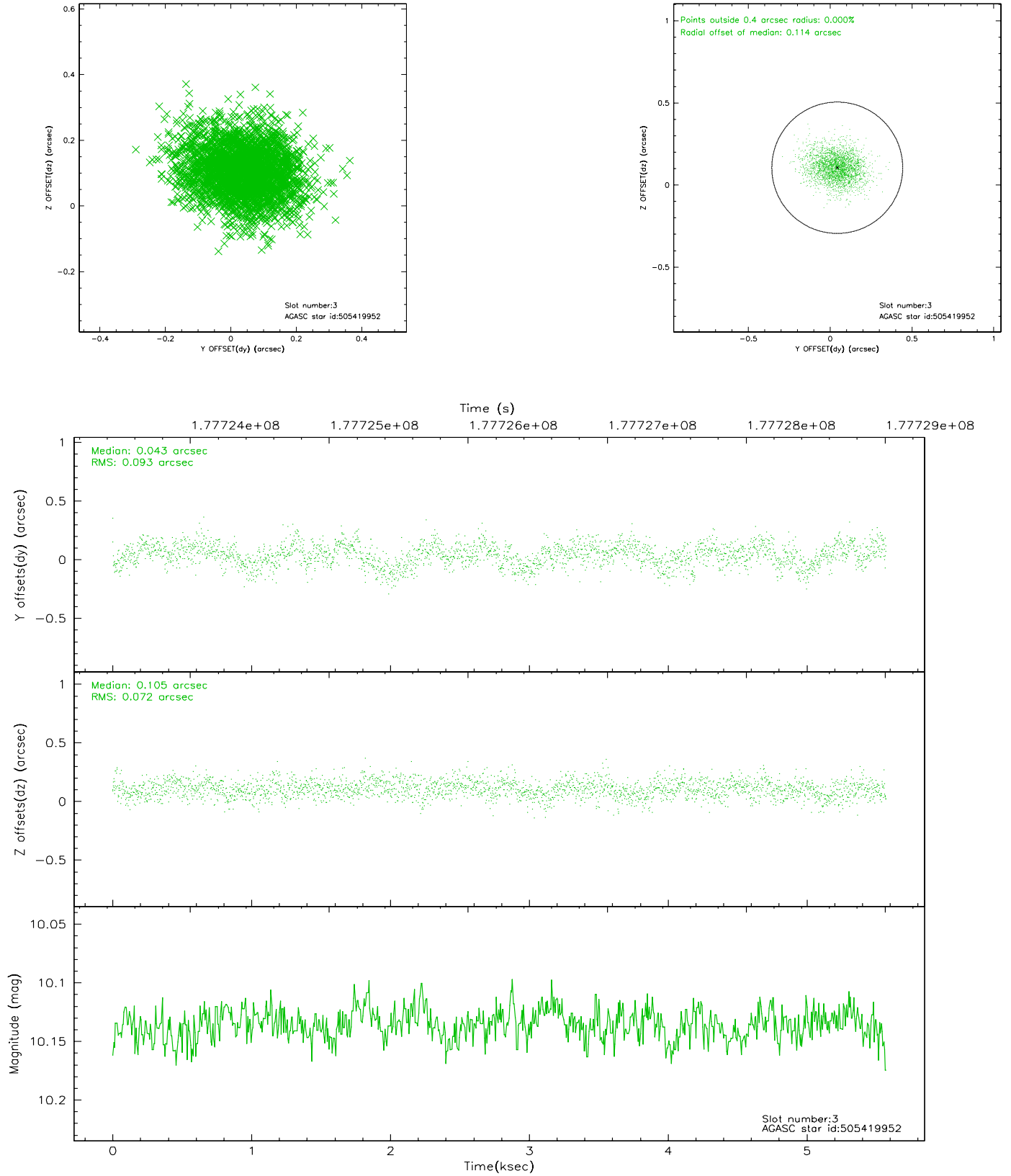
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-4	7.20	1360	0.003	-0.004	0.005	0.009	0.000000	0.000000	2154.10	176.36
1	FID	ACIS-S-5	7.23	1359	-0.008	0.004	0.005	0.008	0.000000	0.000000	-1810.71	169.90
2	FID	ACIS-S-6	7.34	1360	-0.024	0.014	0.007	0.011	0.000000	0.000000	401.17	813.68
3	GUIDE	505419952	10.13	2719	0.043	0.105	0.124	0.205	201.880700	58.804366	-1854.24	-233.01
4	GUIDE	505421936	8.86	2719	-0.080	0.034	0.069	0.110	201.854843	57.887820	1087.59	-1726.74
5	GUIDE	505421968	8.20	2718	0.008	-0.078	0.063	0.101	202.022601	58.209270	188.75	-932.87
6	GUIDE	505422344	8.62	2719	0.030	0.146	0.057	0.094	202.767077	57.846963	1978.13	-216.47
7	GUIDE	505414952	10.00	2715	0.007	-0.207	0.125	0.208	203.527988	58.651569	-38.40	2313.06

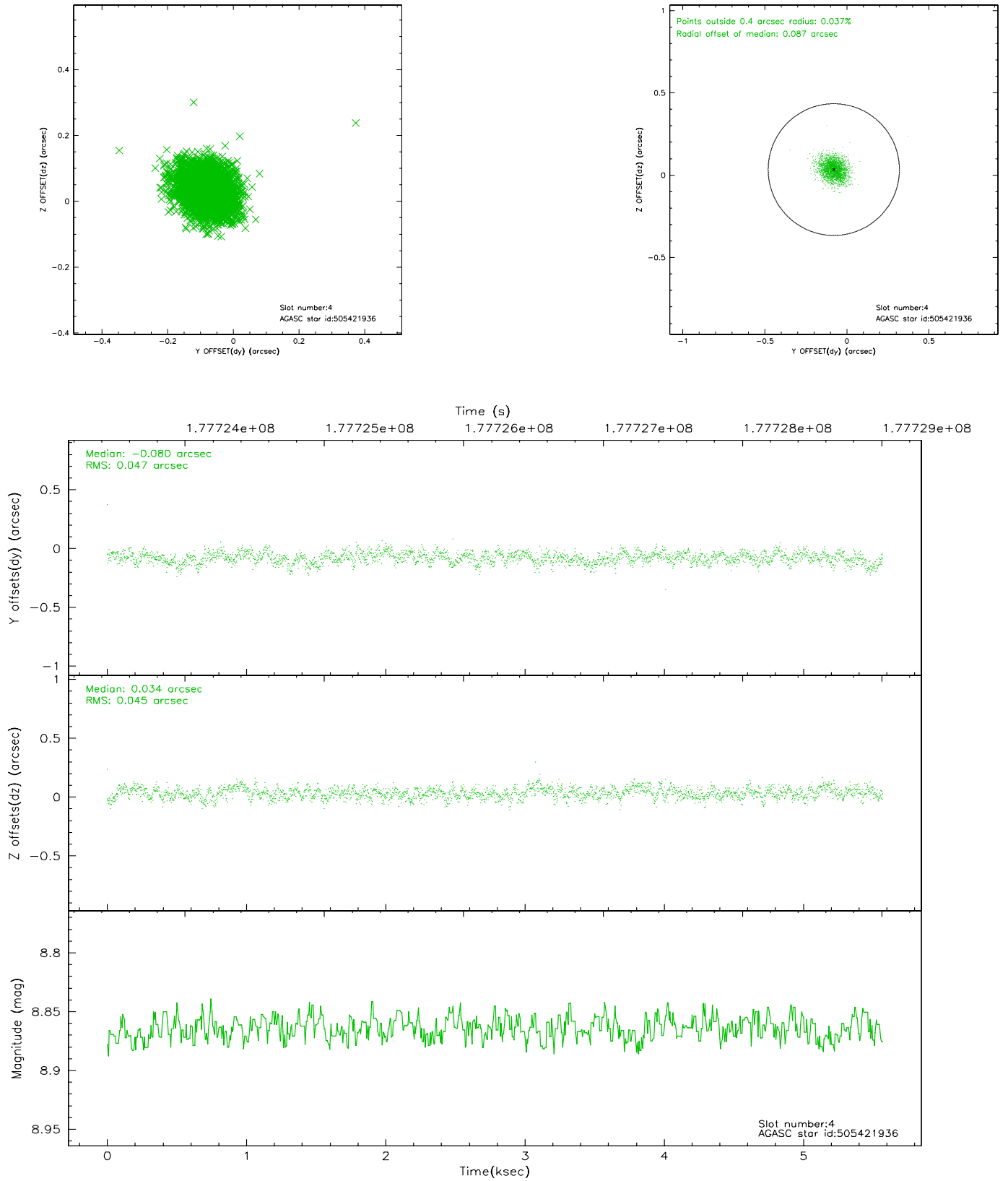


## 2.4 Star Slots

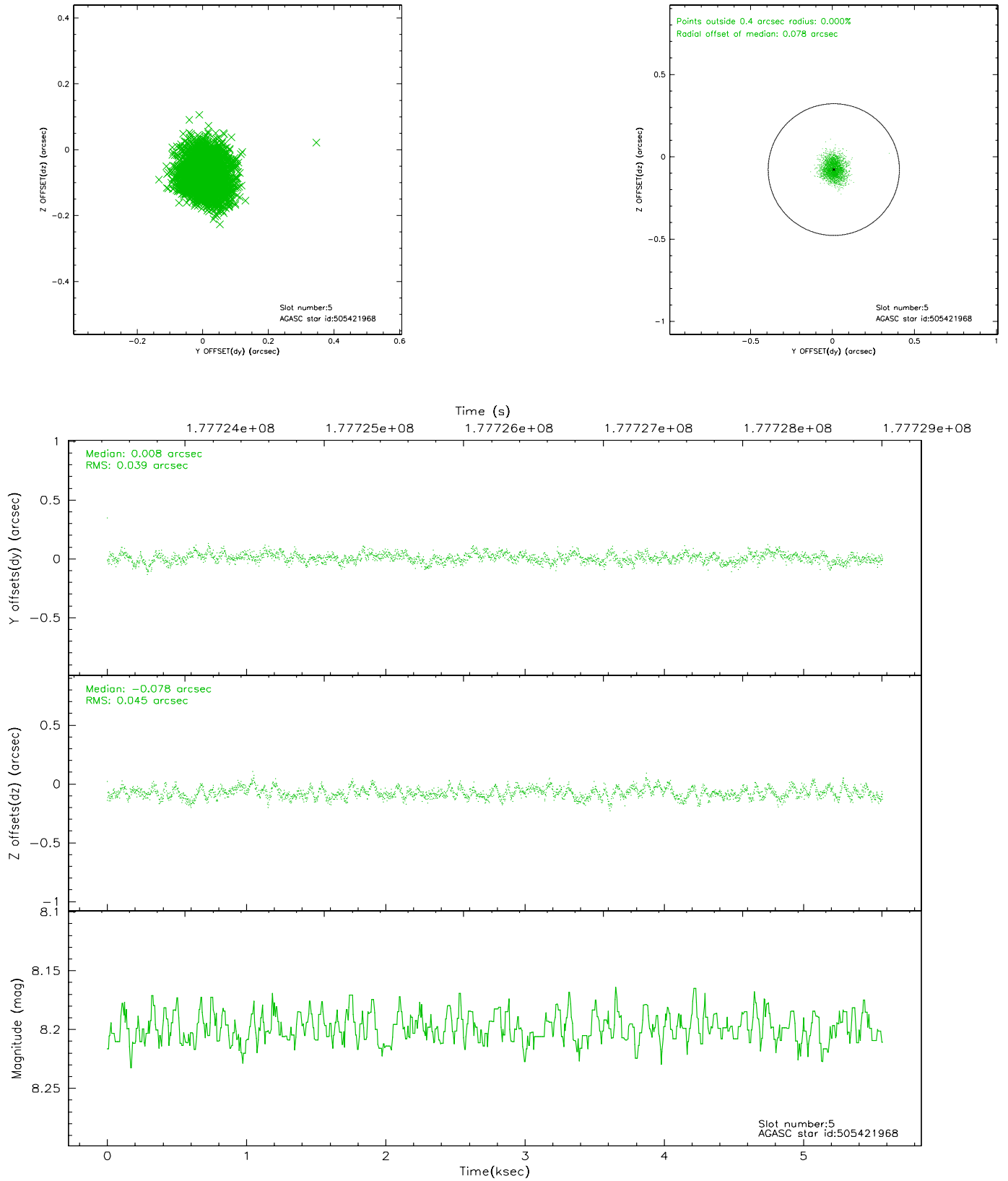
### 2.4.1 Slot 3



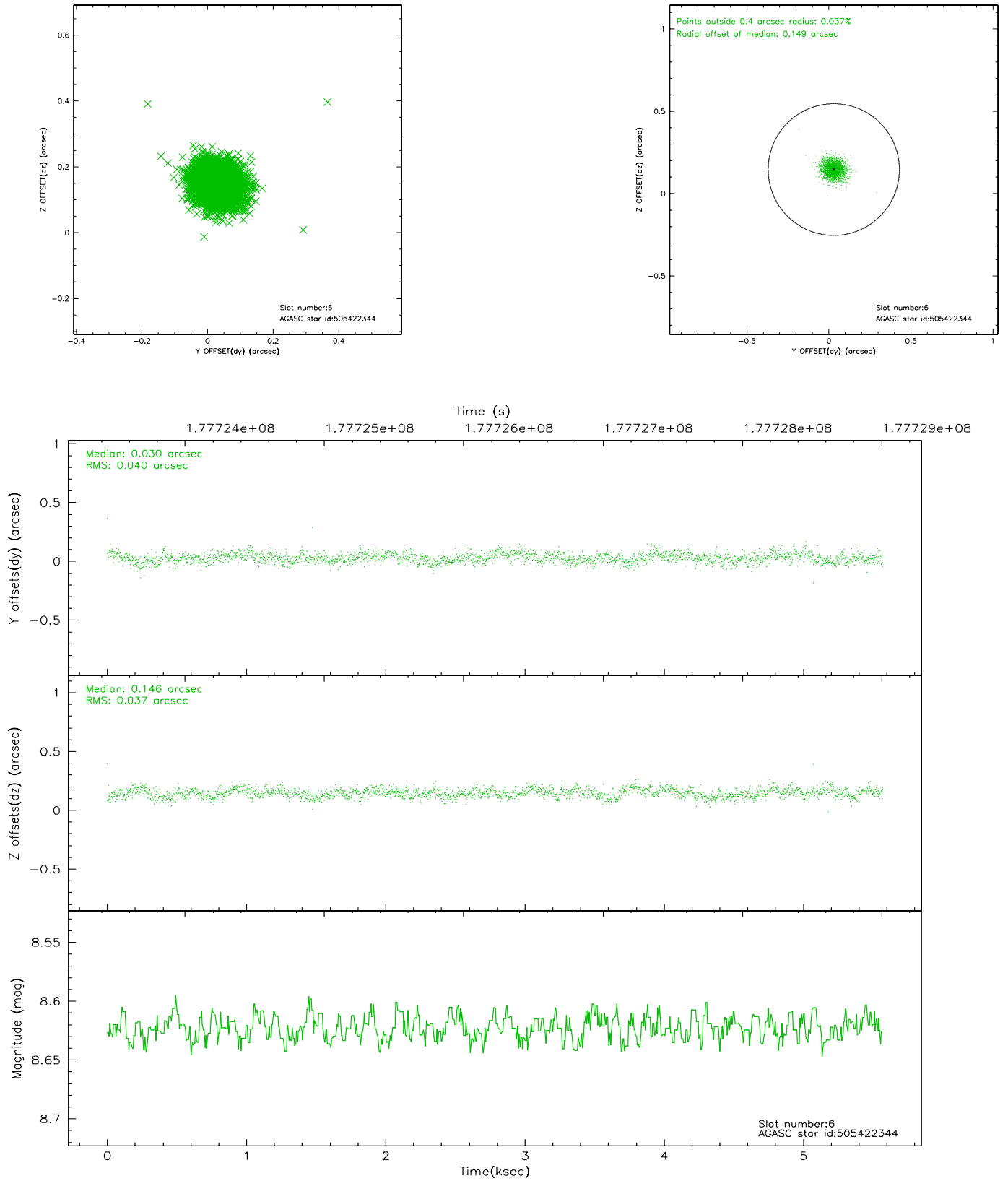
## 2.4.2 Slot 4



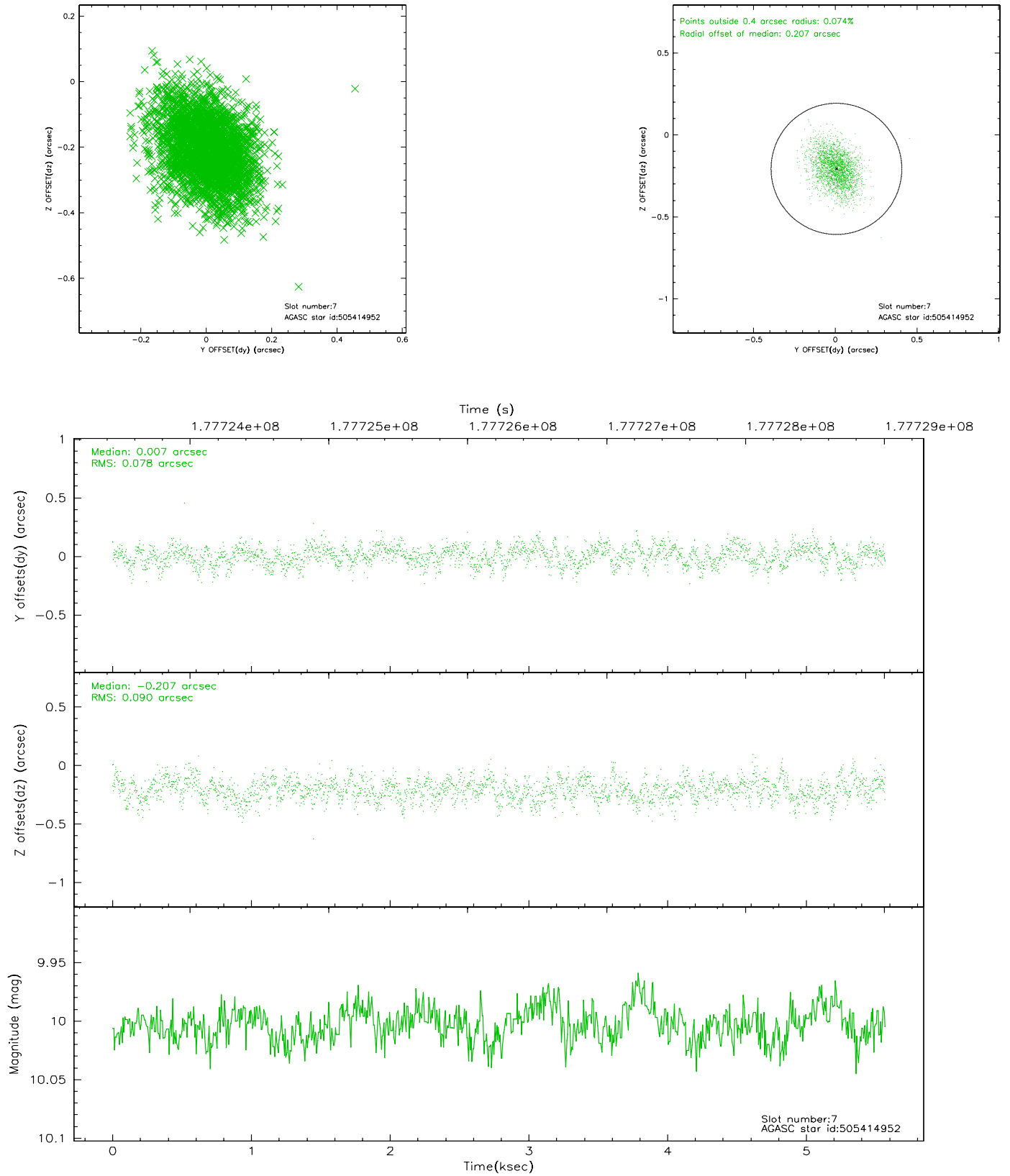
### 2.4.3 Slot 5



## 2.4.4 Slot 6

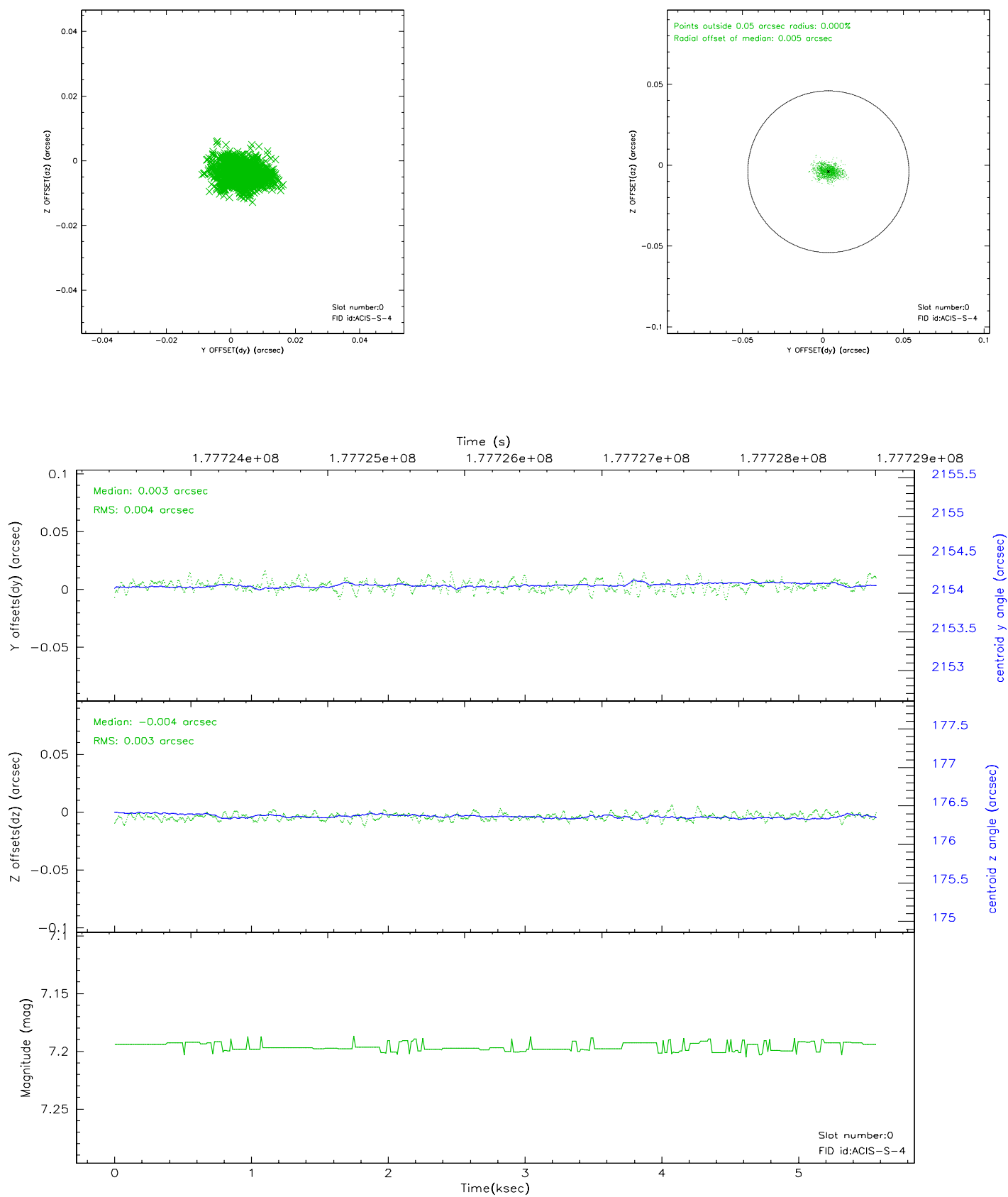


## 2.4.5 Slot 7

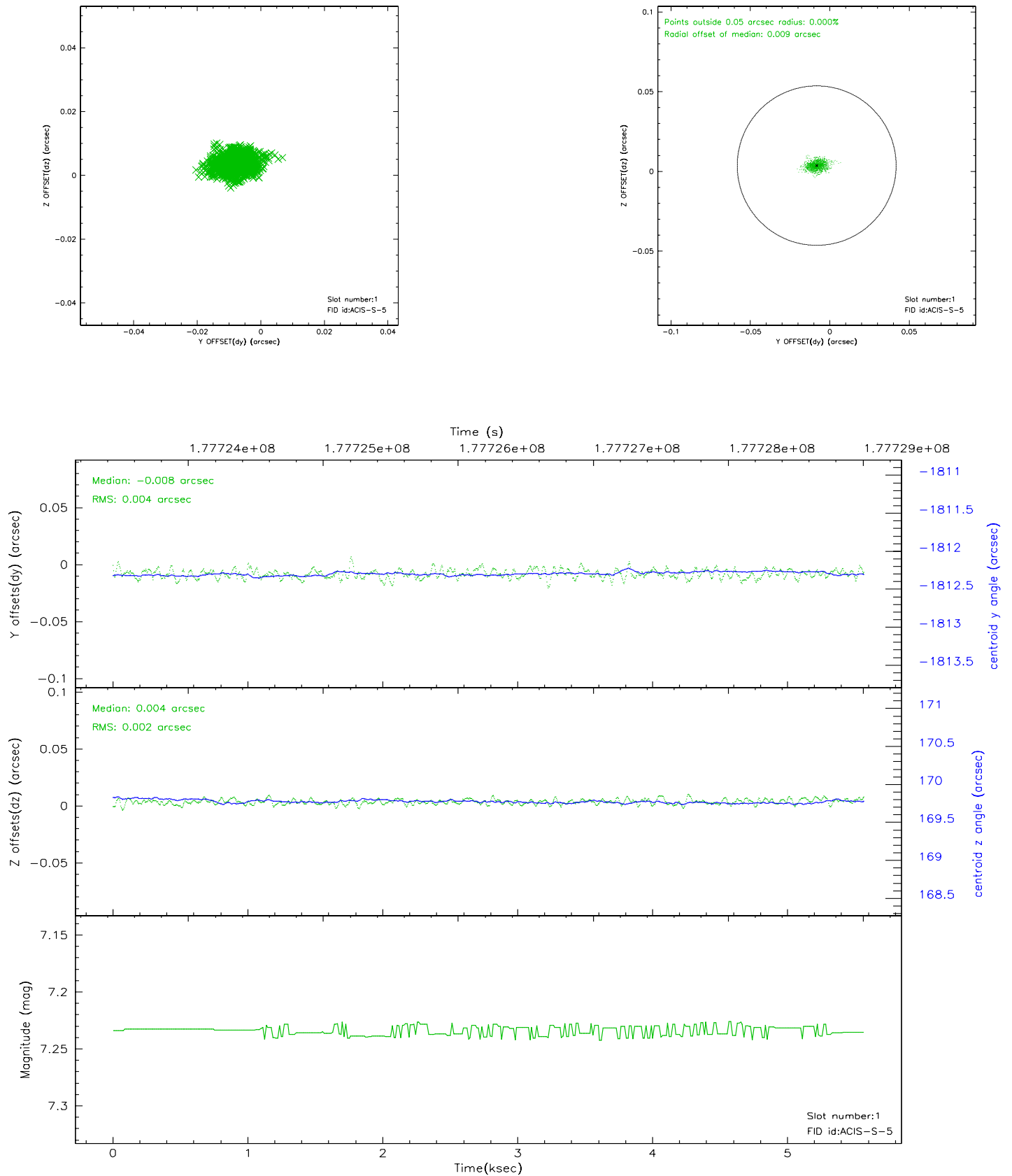


## 2.5 FID Slots

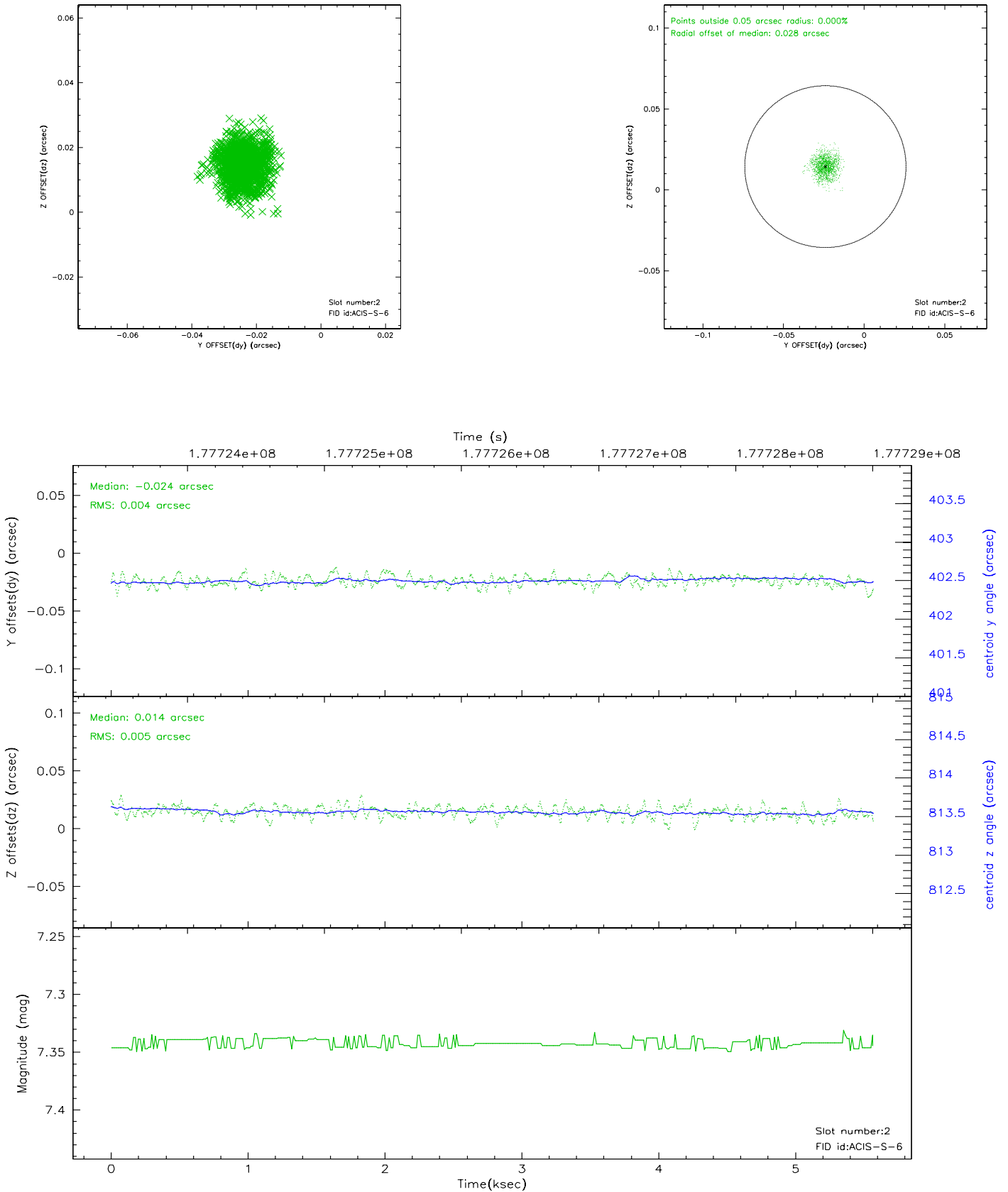
### 2.5.1 Slot 0



## 2.5.2 Slot 1

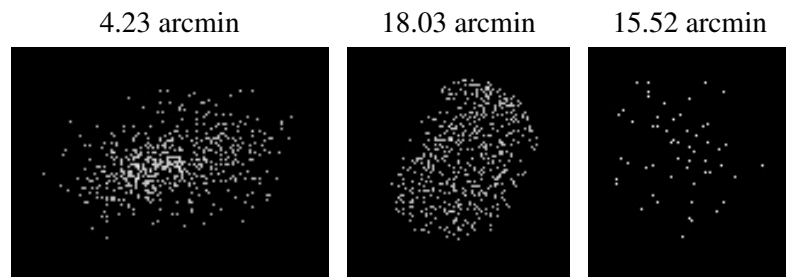


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.07.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.451

### A.2 Comments

Monitor constraint met.