

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 3936 - L2 Version 001  
Chandra X-Ray Center

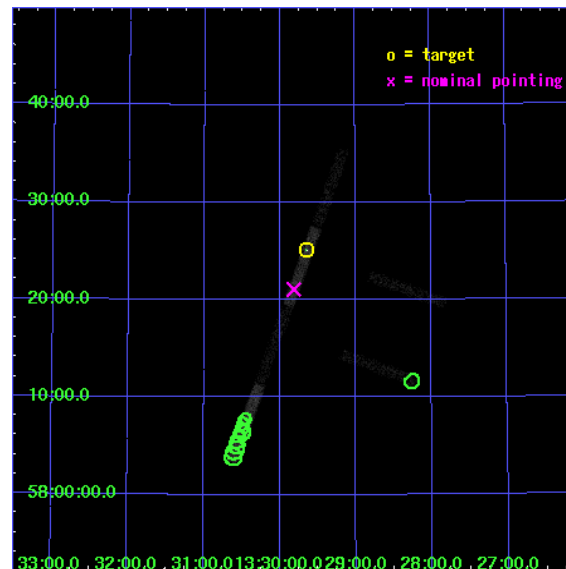
L2 Processing Date : Jul 11 2006

## 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>3</b>	<b>Point Sources</b>	<b>17</b>
<b>A</b>	<b>Summary</b>	<b>18</b>
A.1	Status . . . . .	18
A.2	Comments . . . . .	18

# 1 Front

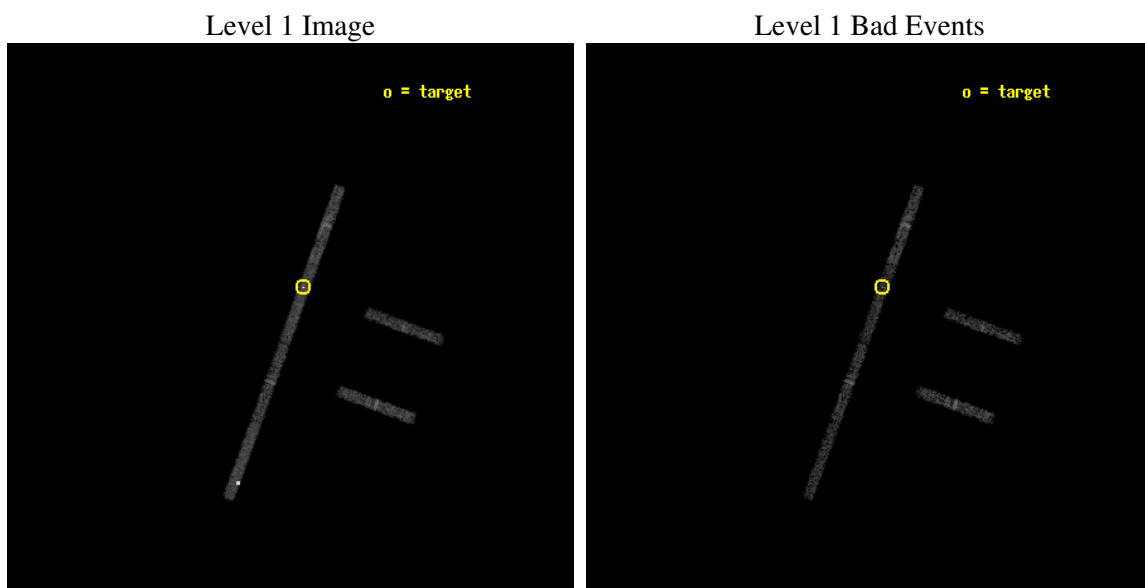
seq_num	600310
obs_id	3936
title	PROBING THE SPECTRAL VARIABILITY OF THE ULTRALUMINOUS X-RAY SOURCE NGC 5204 X-1
observer	Dr Timothy Roberts
object	NGC 5204 X-1
dtcycle	0
cycle	P
ra_targ	202.410833
dec_targ	58.418333
ra_nom	202.45367720831
dec_nom	58.351293241583
roll_nom	290.02697681054
revision	2
ontime	4829.9588976204
livetime	4562.4679212111
ontime2	4829.9588976204
ontime3	4829.9588976204
ontime5	4829.9588976204
ontime6	4829.9588976204
ontime7	4829.9588976204
ontime8	4829.9588976204
l2events	9450



## 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	2006-07-11T06:10:47
revision	2

sched_exp_time	4707.182000
ontime	5617.0262100995
ontime2	5616.2852000296
ontime3	5617.0262100995
ontime5	5617.0262100995
ontime6	5617.0262100995
ontime7	5617.0262100995
ontime8	5617.0262100995
l1events	50153

### 2.1.4 Events

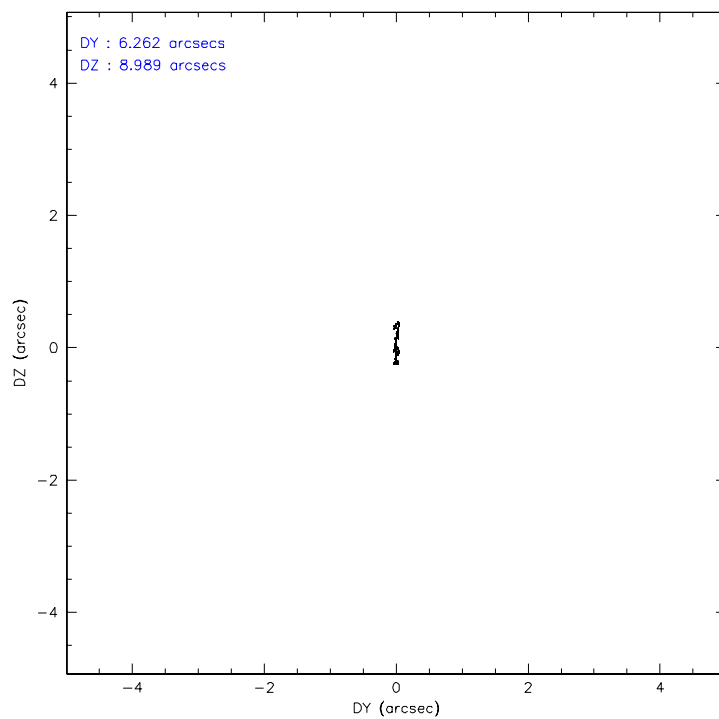
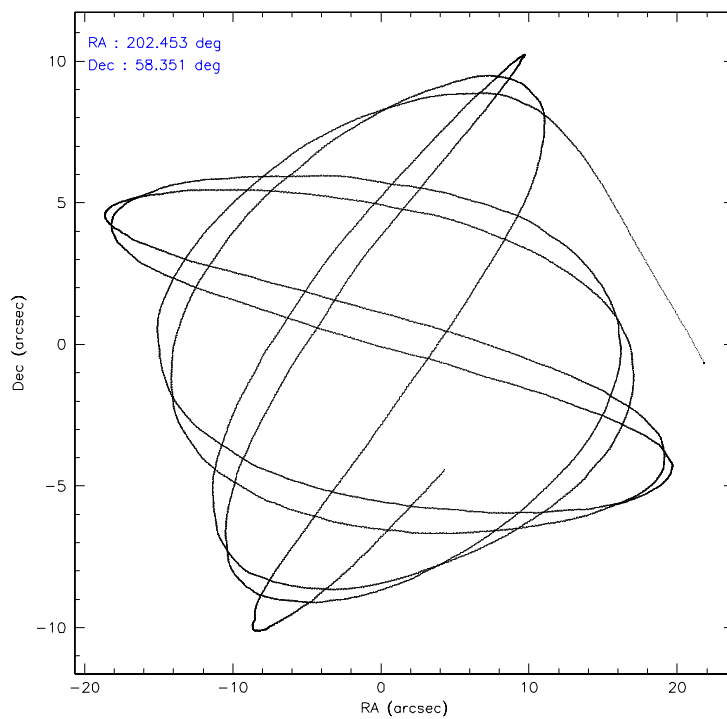
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	6756	5407	14537	5886	9354	8213
rejected events	6136	4838	5310	5312	4591	6918
rejected %	90%	89%	36%	90%	49%	84%

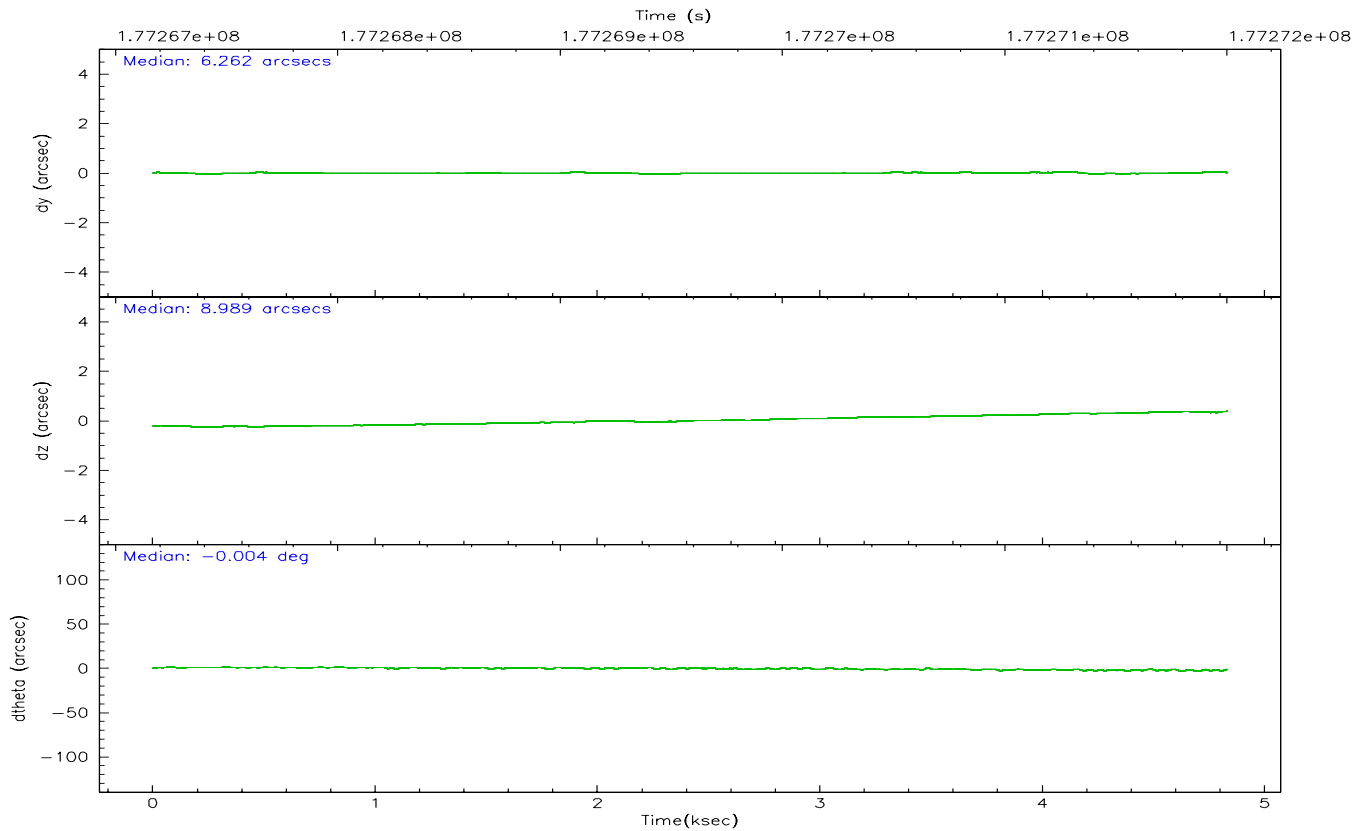
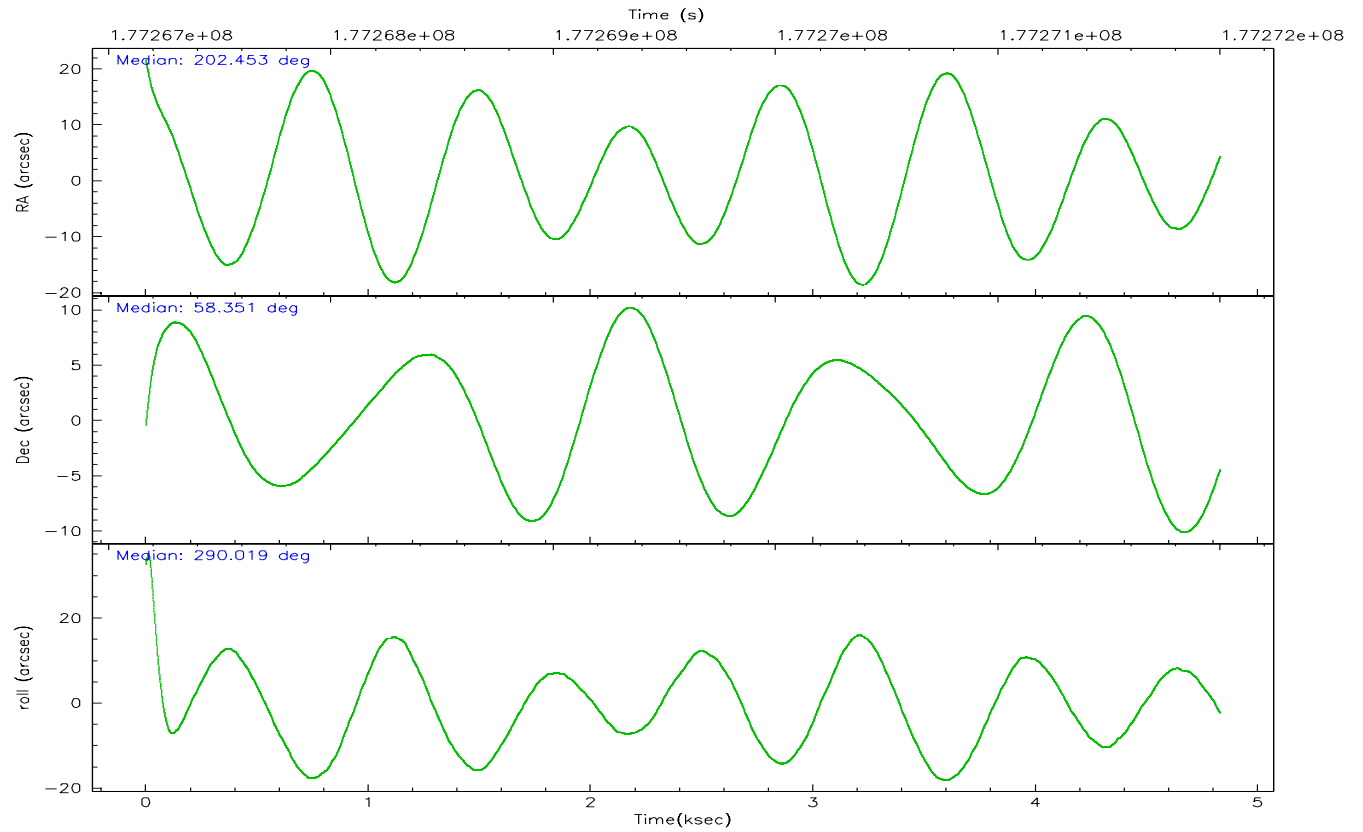
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	263	235	5938	237	1082	372
	3%	4%	40%	4%	11%	4%
grade 1 events	1	0	18	2	15	1
	0%	0%	0%	0%	0%	0%
grade 2 events	136	106	2449	114	1294	266
	2%	1%	16%	1%	13%	3%
grade 3 events	112	120	145	121	484	152
	1%	2%	0%	2%	5%	1%
grade 4 events	110	82	295	99	498	168
	1%	1%	2%	1%	5%	2%
grade 5 events	193	192	350	202	516	302
	2%	3%	2%	3%	5%	3%
grade 6 events	122	116	1884	107	1881	491
	1%	2%	12%	1%	20%	5%
grade 7 events	5819	4556	3458	5004	3584	6461
	86%	84%	23%	85%	38%	78%

## 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	202.413477	202.453677208312	Subarray start row	0	449
Pointing Dec	58.368496	58.35129324158315	Subarray row count	1024	128
Pointing Roll	289.904428	290.0269768105382	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	177267294.184000	177266134.72901			
Observation start date	2003-08-14T16:53:50	2003-08-14T16:35:34			
Observation end time	177272001.184000	177272315.99178			
Observation end date	2003-08-14T18:12:17	2003-08-14T18:18:35			
Read mode	TIMED	TIMED			

## 2.3 Aspect





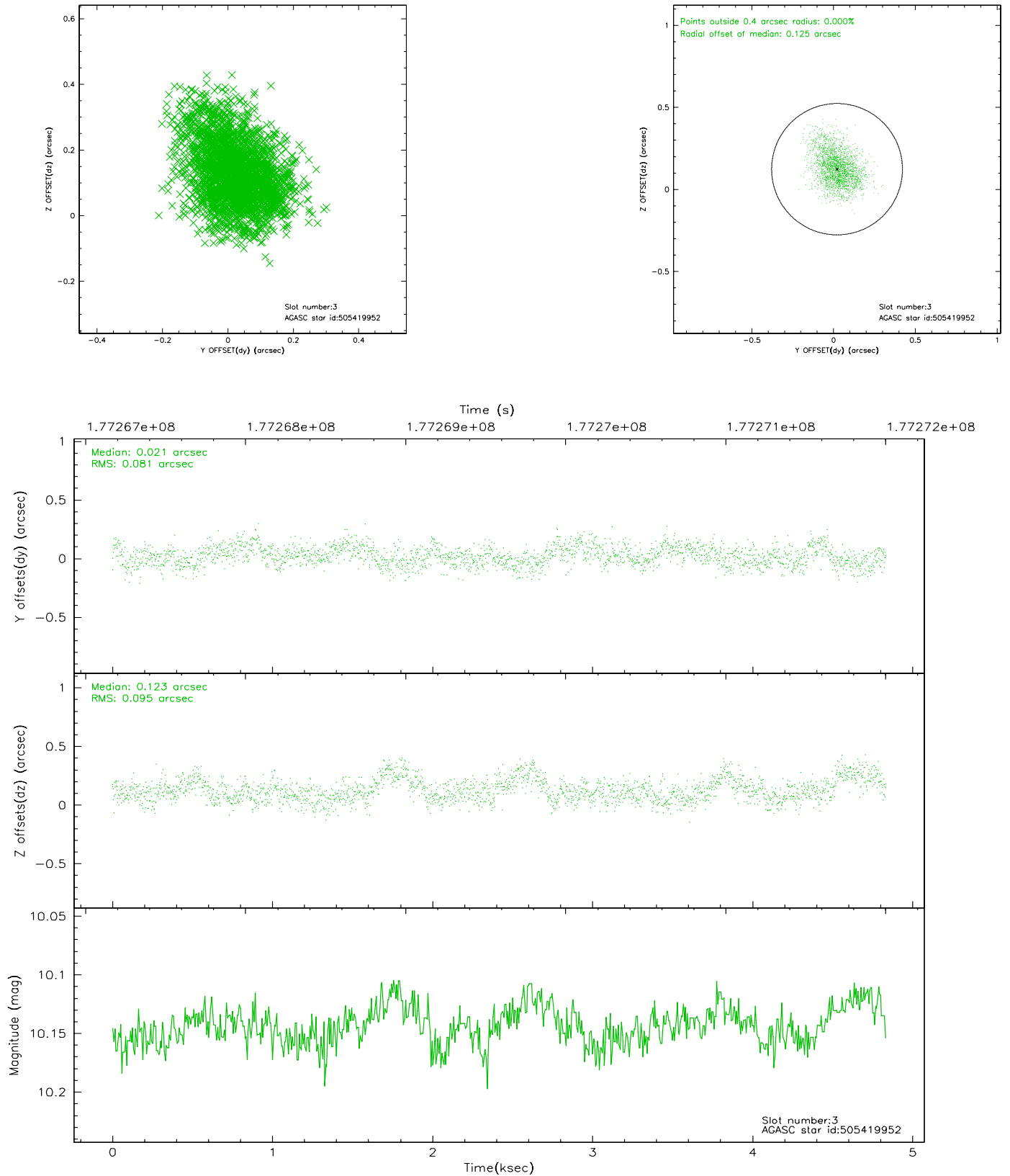
### Slot Statistics

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	1179	0.015	0.020	0.006	0.009	0.000000	0.000000	2154.37	178.43
1	FID	ACIS-S-5	7.23	1178	-0.033	0.019	0.005	0.009	0.000000	0.000000	-1810.24	172.07
2	FID	ACIS-S-6	7.35	1178	-0.011	-0.026	0.008	0.013	0.000000	0.000000	401.24	815.75
3	GUIDE	505419952	10.14	2355	0.021	0.123	0.131	0.218	201.880700	58.804366	-1816.94	-398.40
4	GUIDE	505421936	8.87	2354	-0.022	0.056	0.067	0.109	201.854843	57.887820	1258.69	-1592.49
5	GUIDE	505421968	8.19	2357	0.049	-0.045	0.063	0.099	202.022601	58.209270	285.59	-891.90
6	GUIDE	505418080	9.06	2357	0.001	-0.000	0.079	0.125	201.533017	58.898788	-2361.97	-886.33
7	GUIDE	505414952	10.00	2355	-0.050	-0.142	0.133	0.208	203.527988	58.651569	-264.83	2315.15

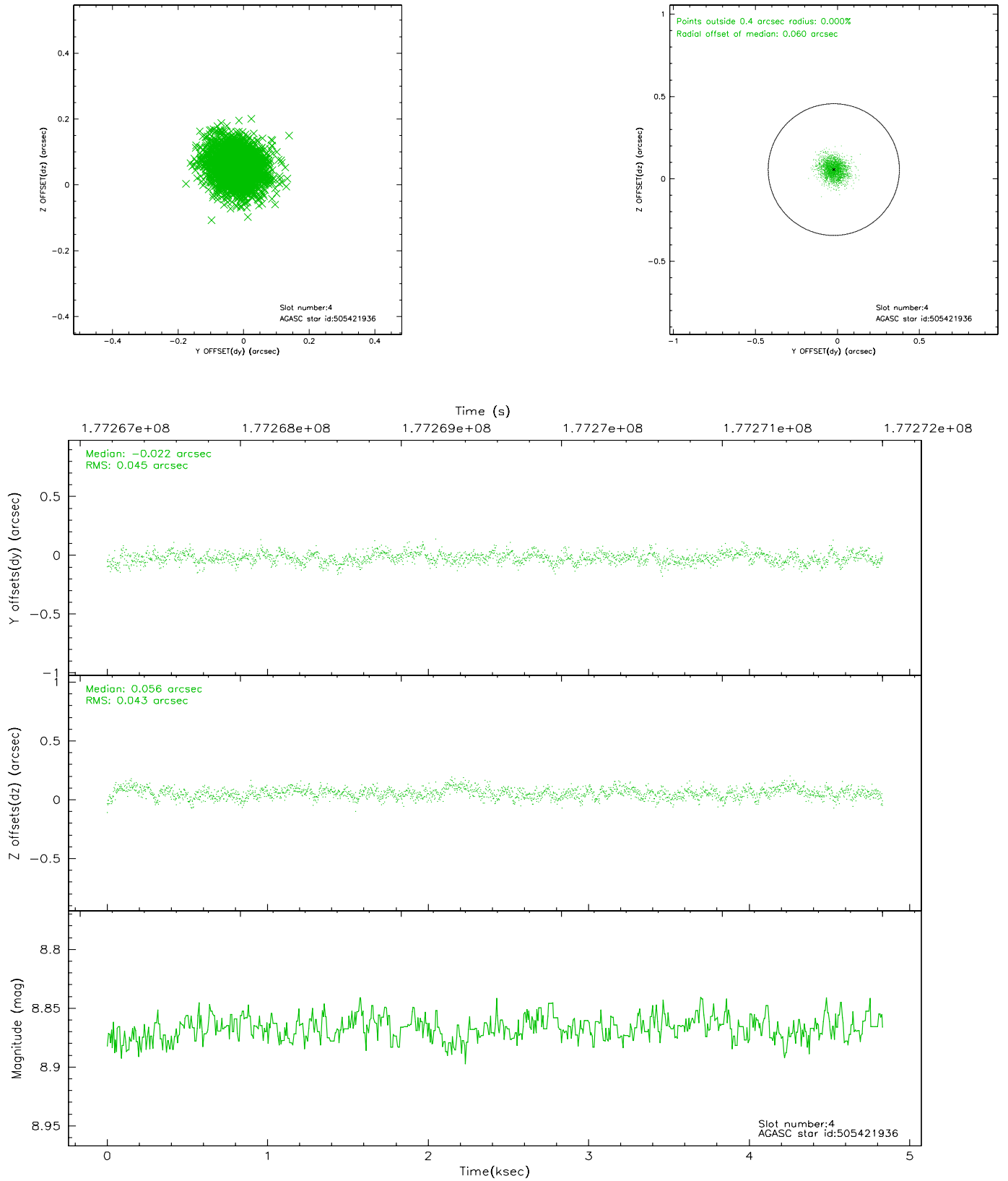


## 2.4 Star Slots

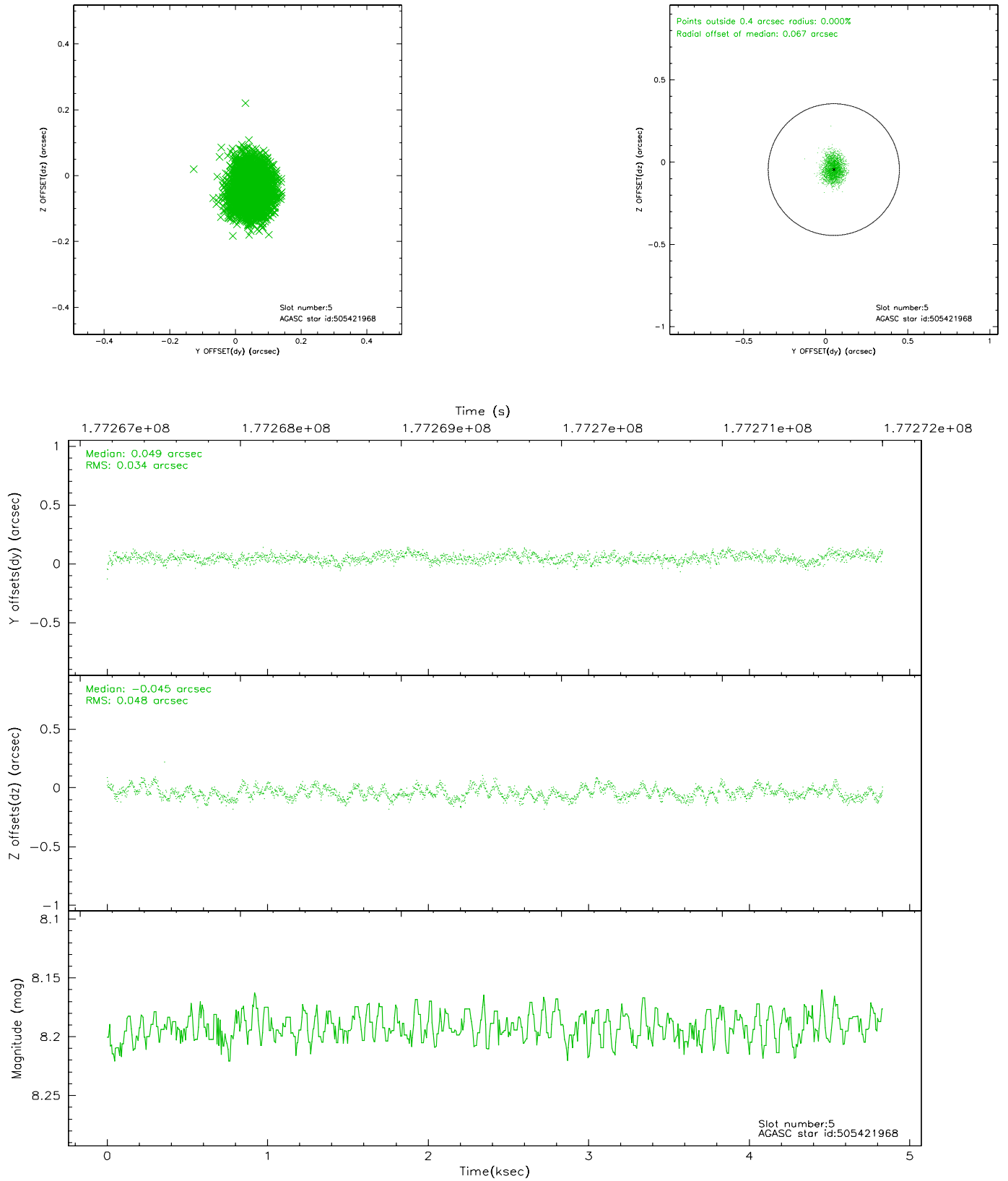
### 2.4.1 Slot 3



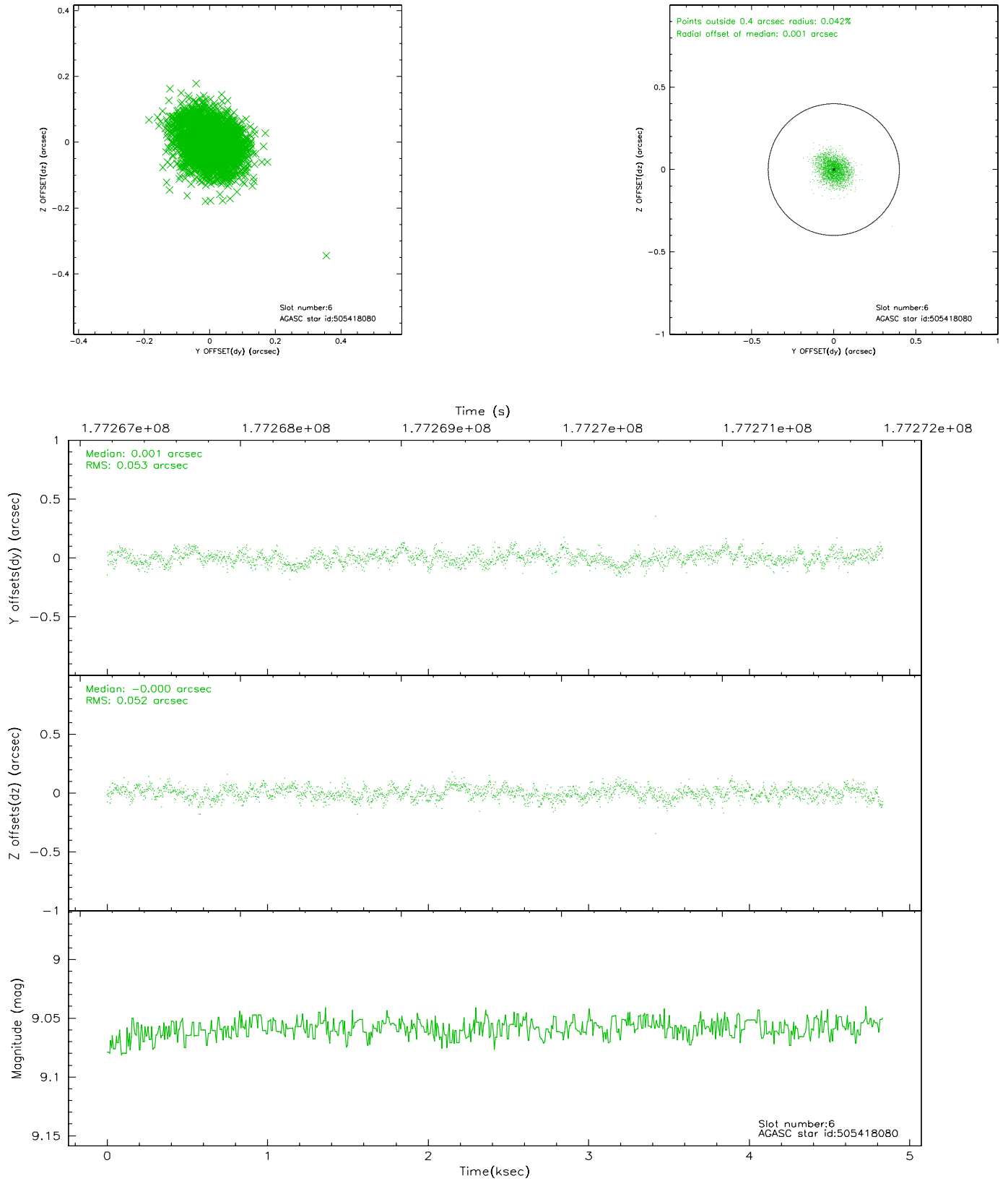
## 2.4.2 Slot 4



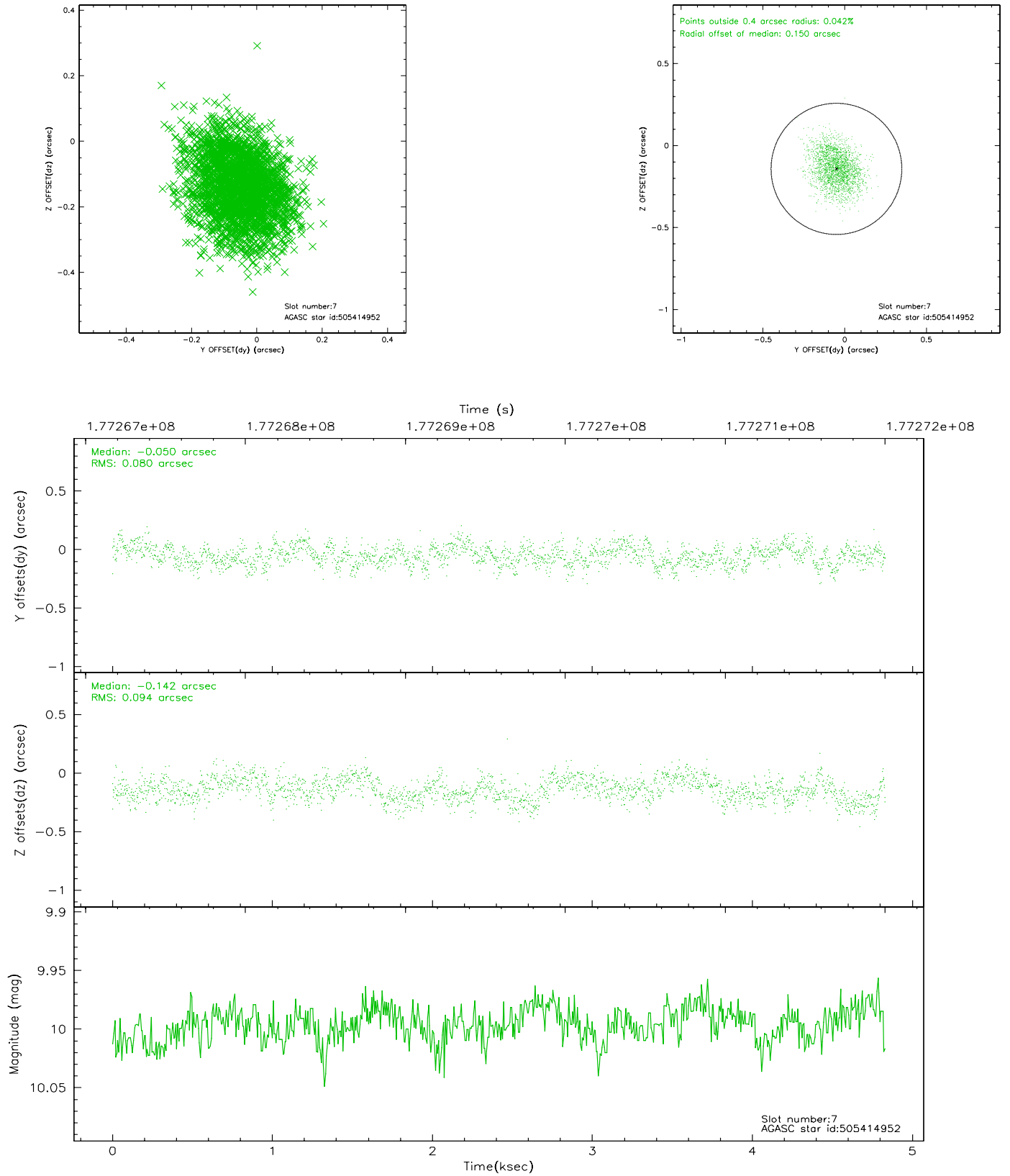
### 2.4.3 Slot 5



## 2.4.4 Slot 6

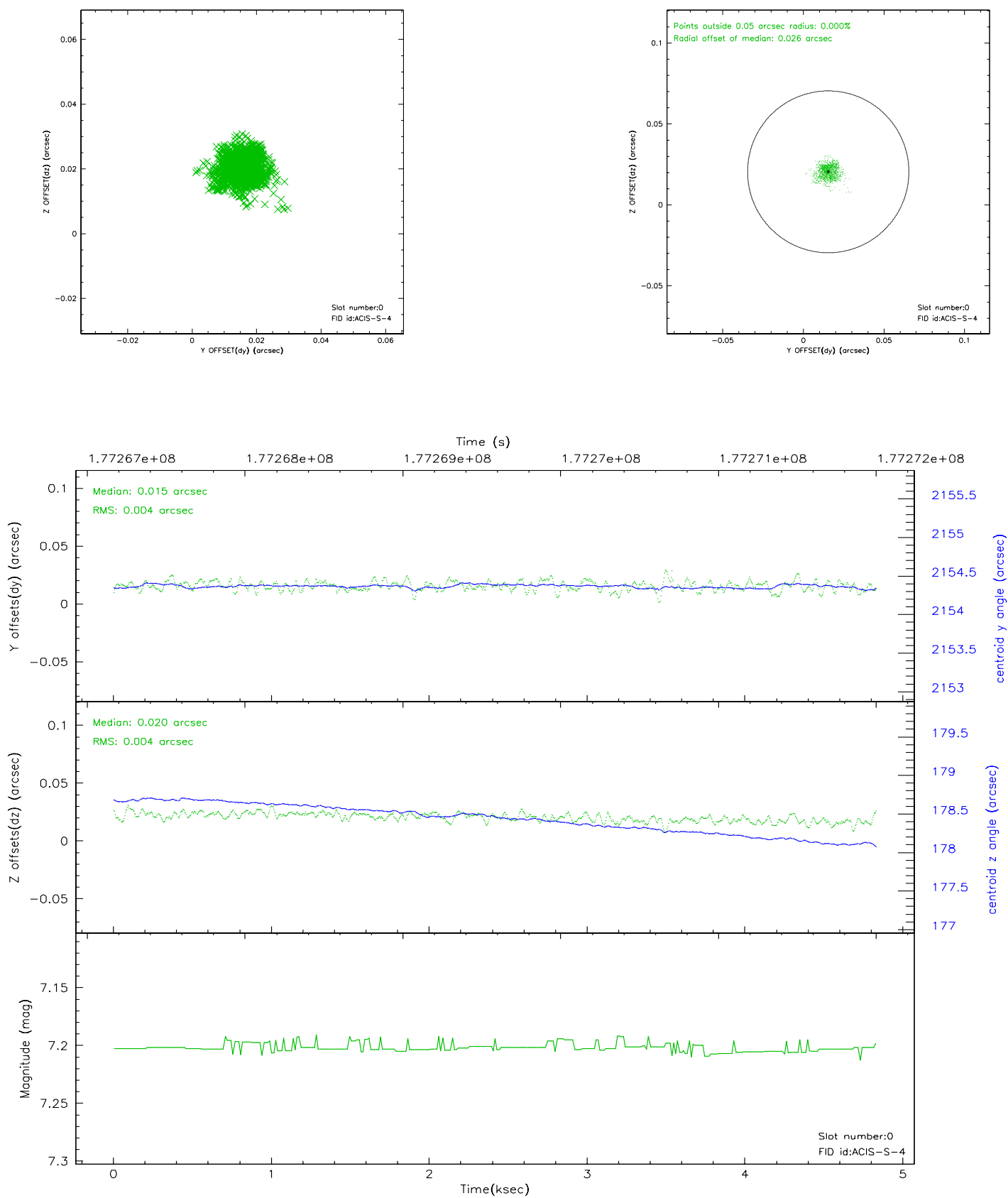


## 2.4.5 Slot 7

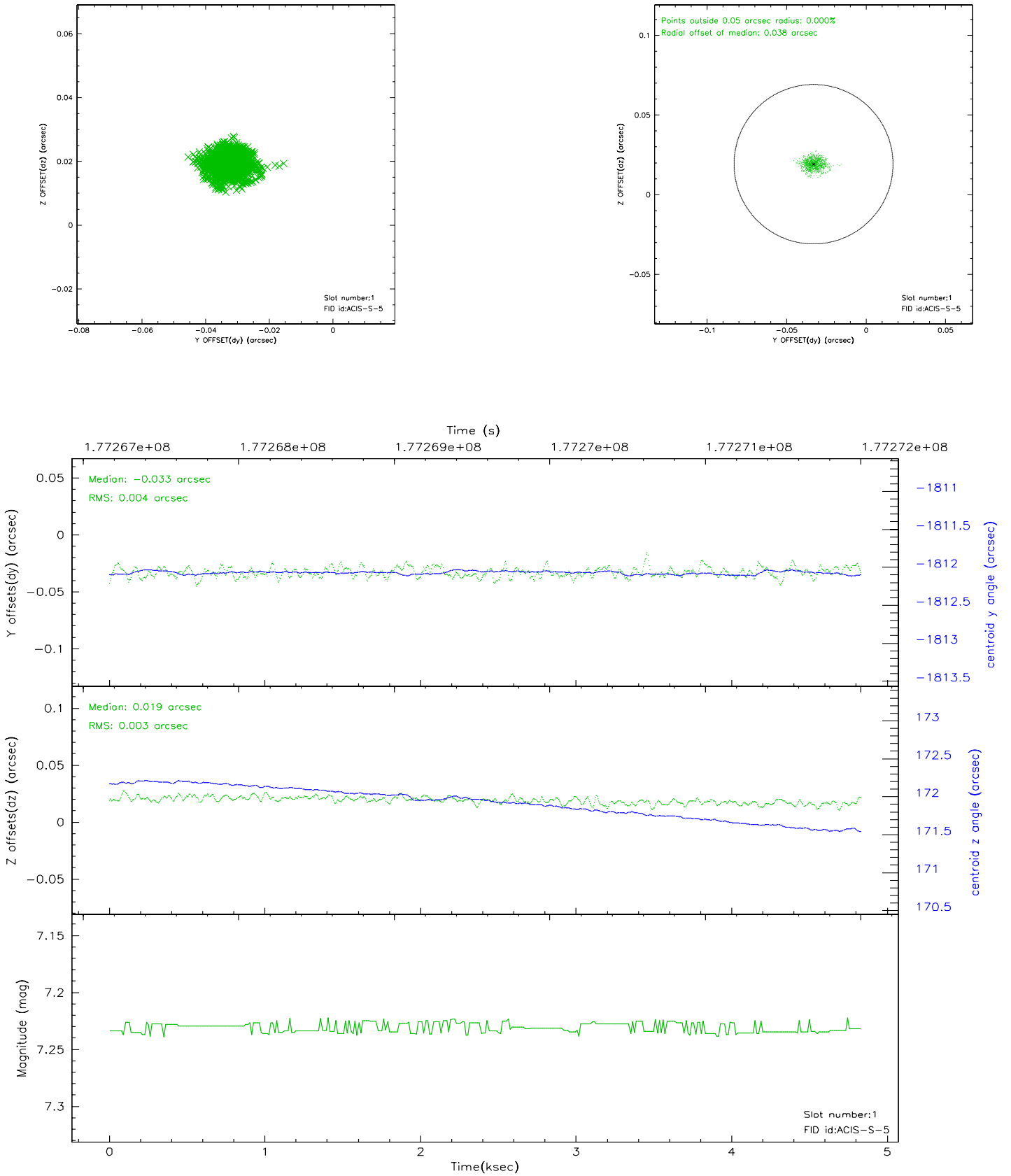


## 2.5 FID Slots

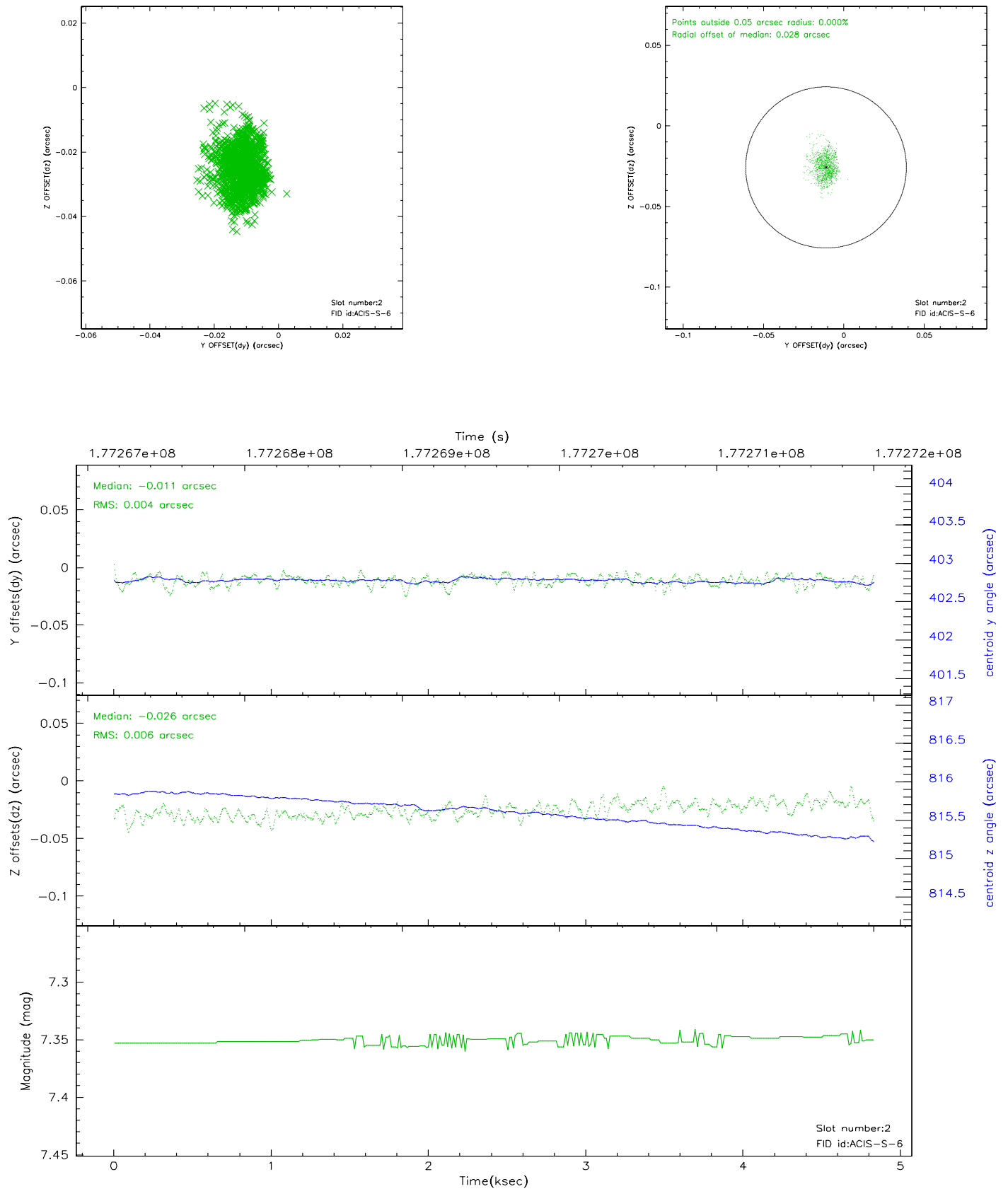
### 2.5.1 Slot 0



## 2.5.2 Slot 1

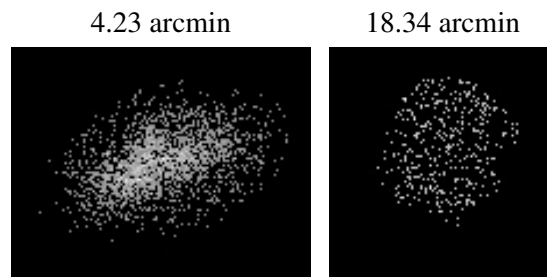


### 2.5.3 Slot 2





### 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	4.829

### A.2 Comments

Monitor constraint met.