

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 4037 - L2 Version 001  
Chandra X-Ray Center

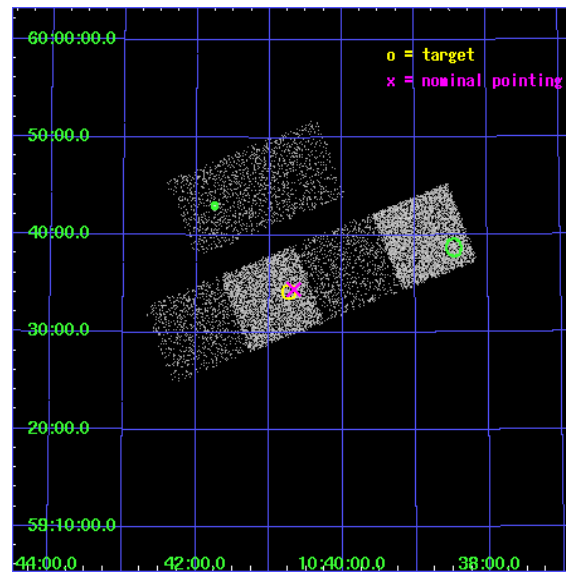
L2 Processing Date : Jul 20 2006

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# 1 Front

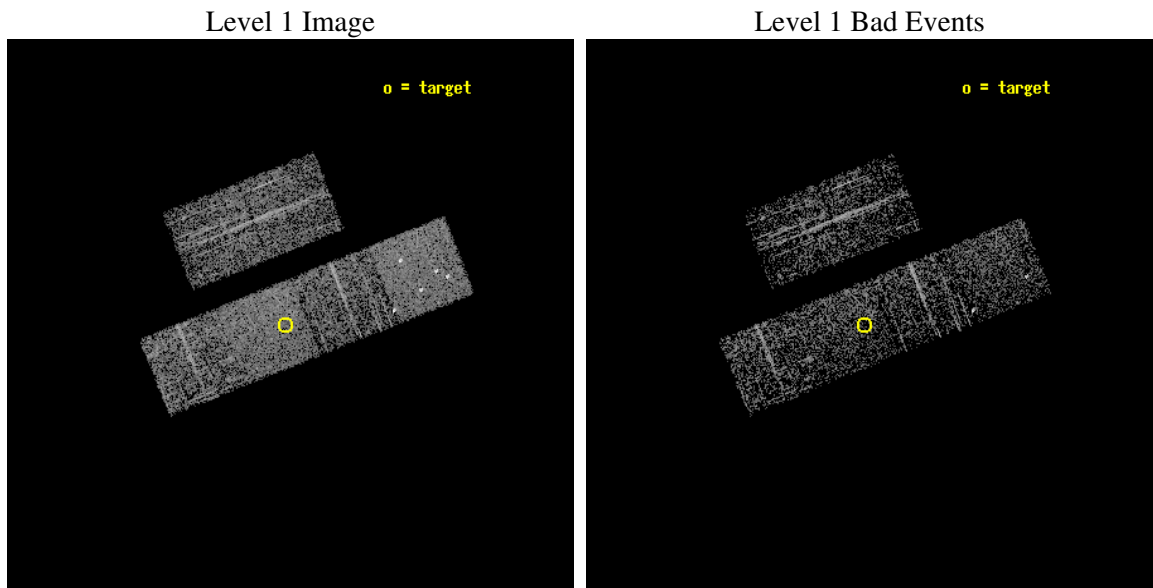
seq_num	700716
obs_id	4037
title	WHY DO WE SEE BROAD LINES IN X-RAY ABSORBED AGN?
observer	Dr. BELINDA WILKES
object	2MASS104044+593409
dtcycle	0
cycle	P
ra_targ	160.182083
dec_targ	59.569222
ra_nom	160.16604419763
dec_nom	59.574234491428
roll_nom	158.23397453651
revision	2
ontime	1388.7999948263
livetime	1371.2141730569
ontime2	1388.7999948263
ontime3	1388.7999948263
ontime5	1388.7999948263
ontime6	1388.7999948263
ontime7	1388.7999948263
ontime8	1388.7999948263
l2events	13513



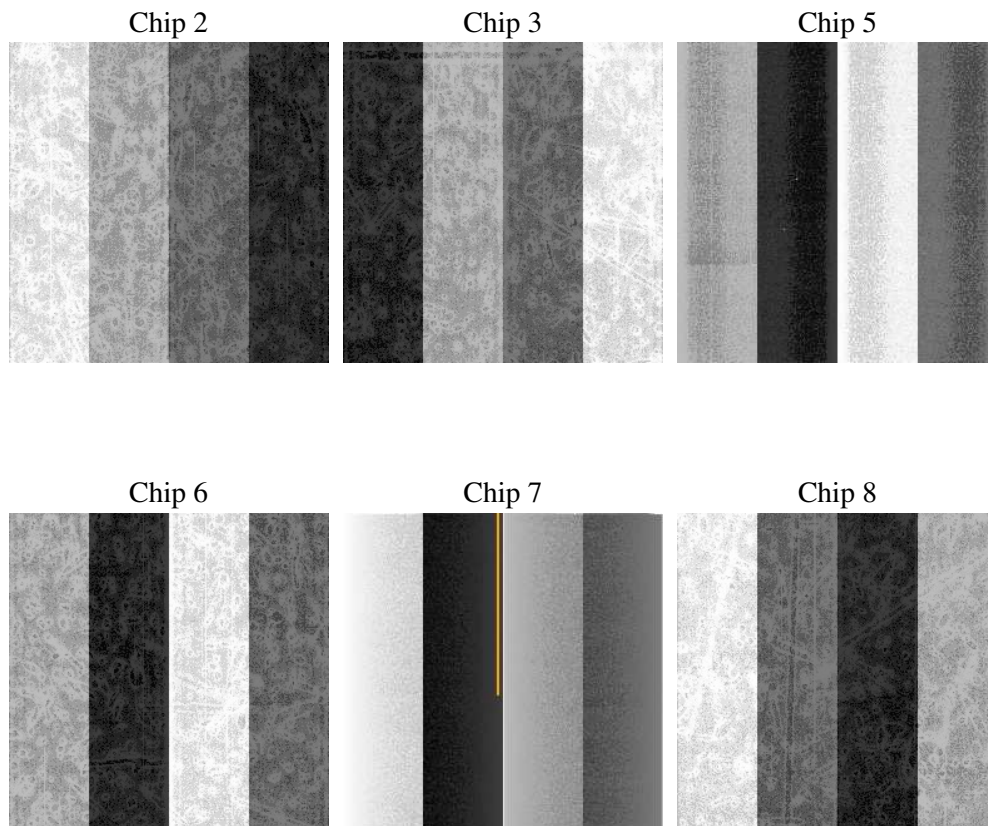
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldsver	3.2.2
date	2006-07-20T23:01:32
revision	2

sched_exp_time	1432.888000
ontime	1393.6332086921
ontime2	1393.6332086921
ontime3	1393.6332086921
ontime5	1393.6332086921
ontime6	1393.6332086921
ontime7	1393.6332086921
ontime8	1393.6332086921
l1events	65305

### 2.1.4 Events

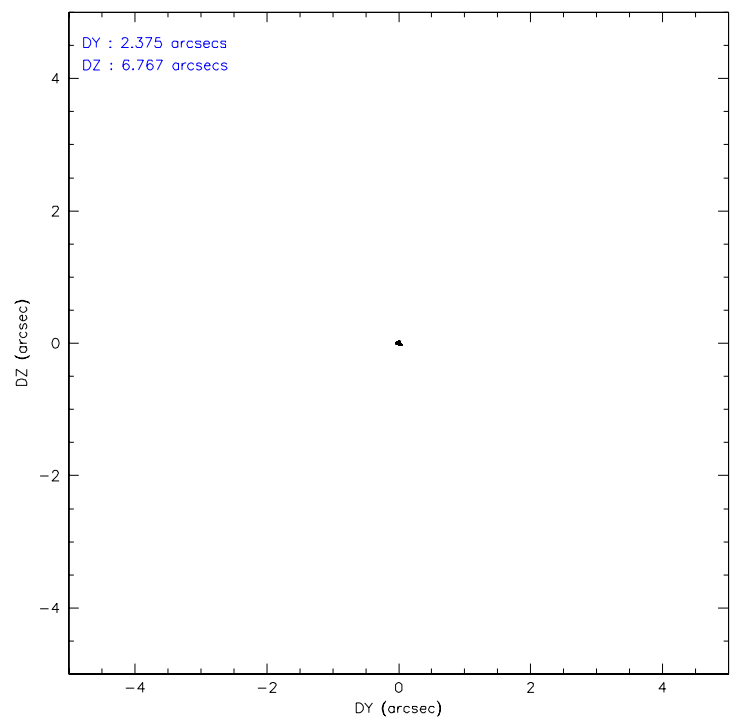
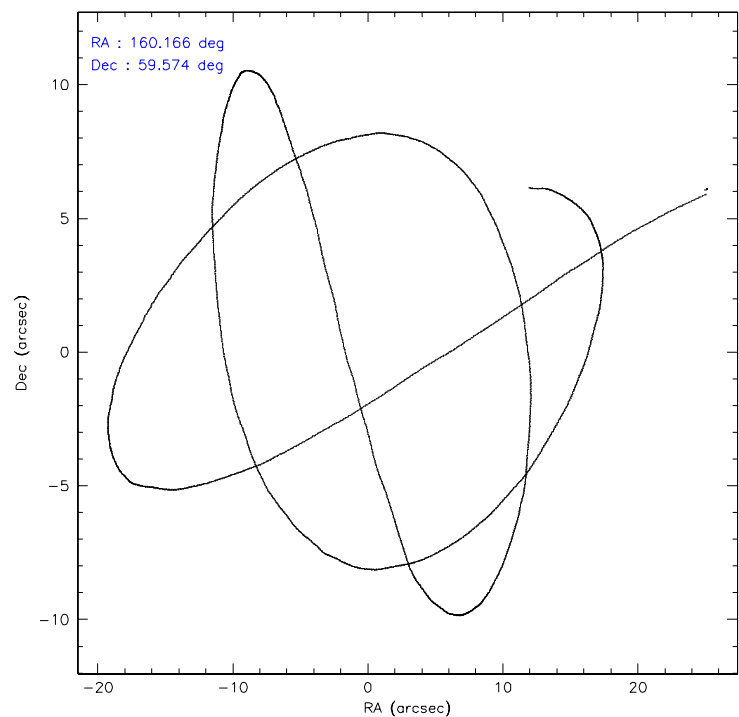
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	9037	9154	14989	9255	12043	10827
rejected events	8024	8106	7860	8185	7536	8701
rejected %	88%	88%	52%	88%	62%	80%

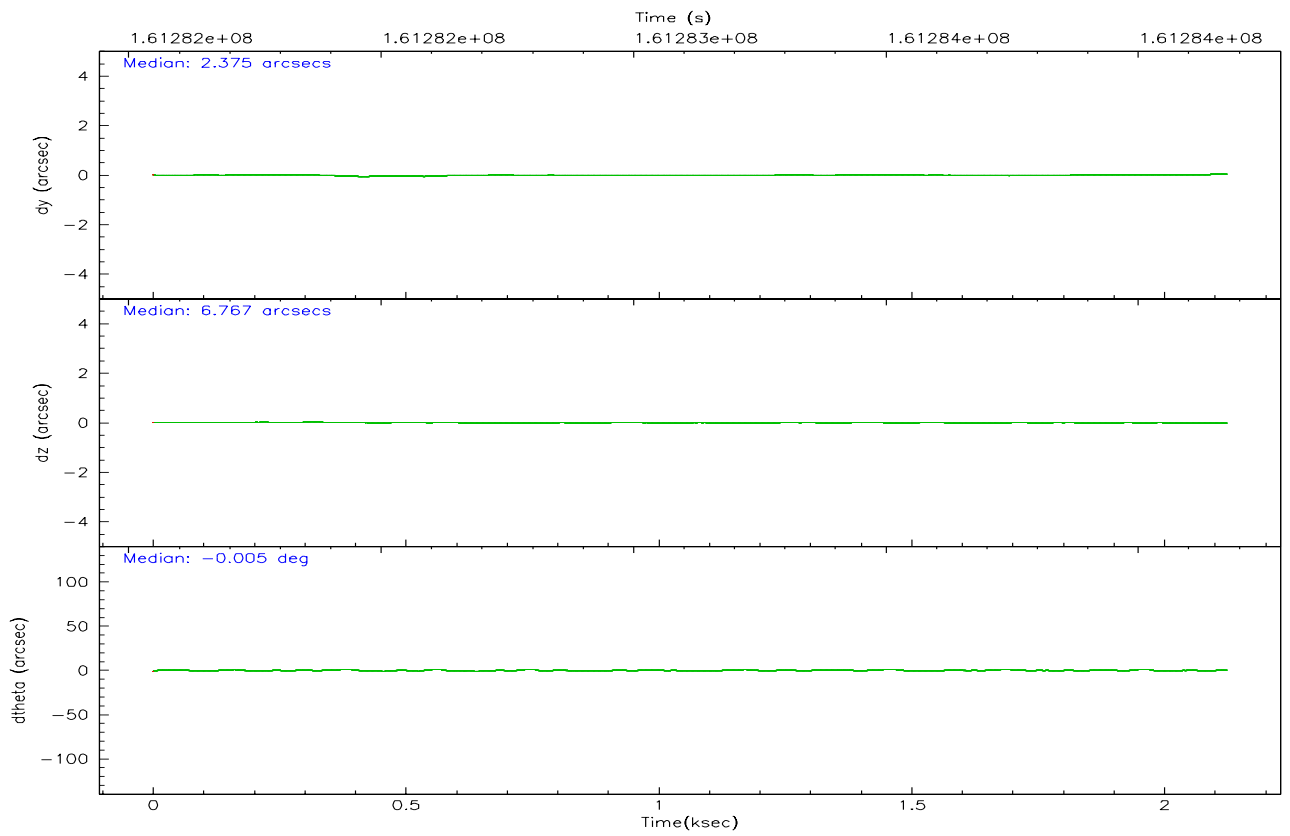
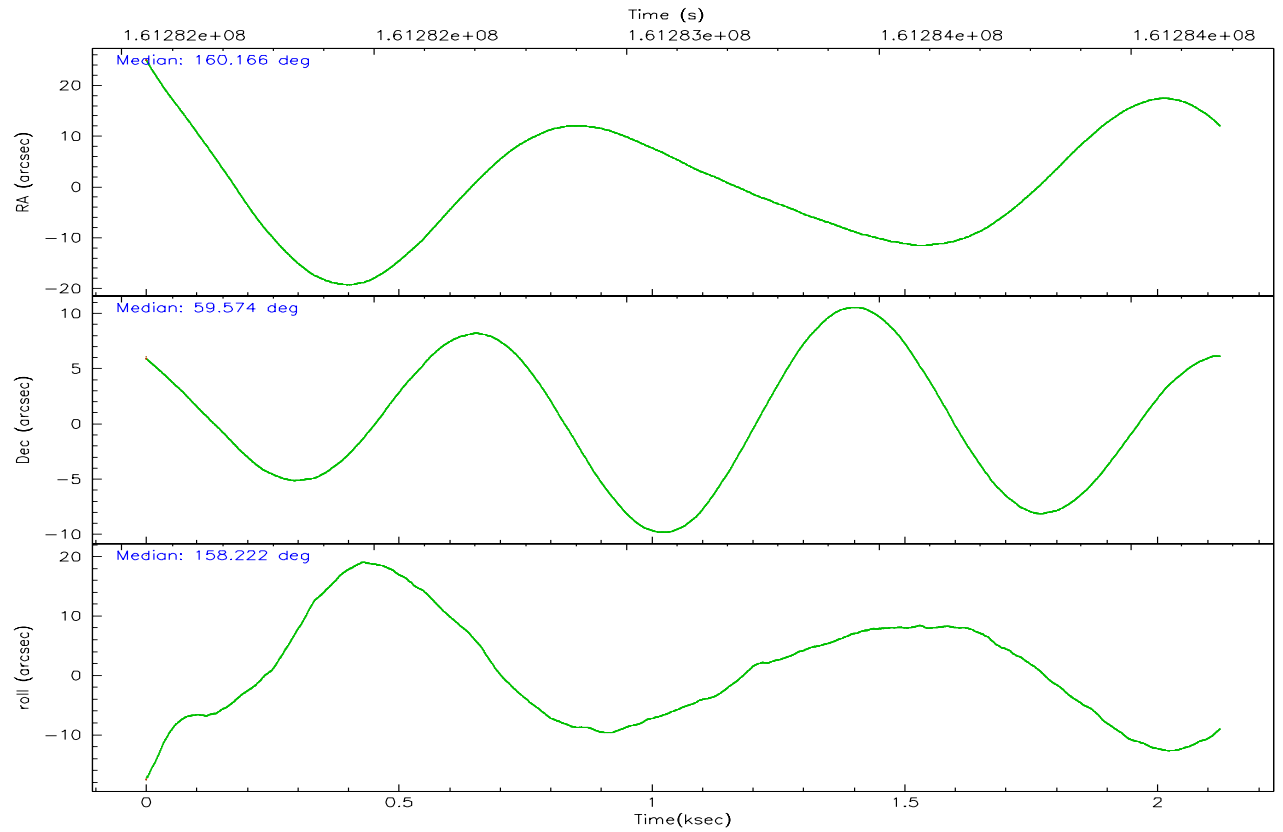
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	453	486	1460	431	270	715
	5%	5%	9%	4%	2%	6%
grade 1 events	9	4	109	7	3	4
	0%	0%	0%	0%	0%	0%
grade 2 events	193	200	1875	218	1149	428
	2%	2%	12%	2%	9%	3%
grade 3 events	107	108	126	117	204	285
	1%	1%	0%	1%	1%	2%
grade 4 events	82	98	135	94	219	239
	0%	1%	0%	1%	1%	2%
grade 5 events	321	403	716	368	756	489
	3%	4%	4%	3%	6%	4%
grade 6 events	184	162	3571	213	2680	492
	2%	1%	23%	2%	22%	4%
grade 7 events	7688	7693	6997	7807	6762	8175
	85%	84%	46%	84%	56%	75%

## 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	NONE	NONE
Pointing RA	160.218984	160.1660441976329	Alternating exposures requested	N	N
Pointing Dec	59.578569	59.57423449142759	Primary exposure time	0.000000	3.2
Pointing Roll	158.031693	158.2339745365117			
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	161282739.184000	161281527.60203			
Observation start date	2003-02-10T16:44:35	2003-02-10T16:25:27			
Observation end time	161284171.184000	161284486.26465			
Observation end date	2003-02-10T17:08:27	2003-02-10T17:14:46			
Read mode	TIMED	TIMED			

## 2.3 Aspect





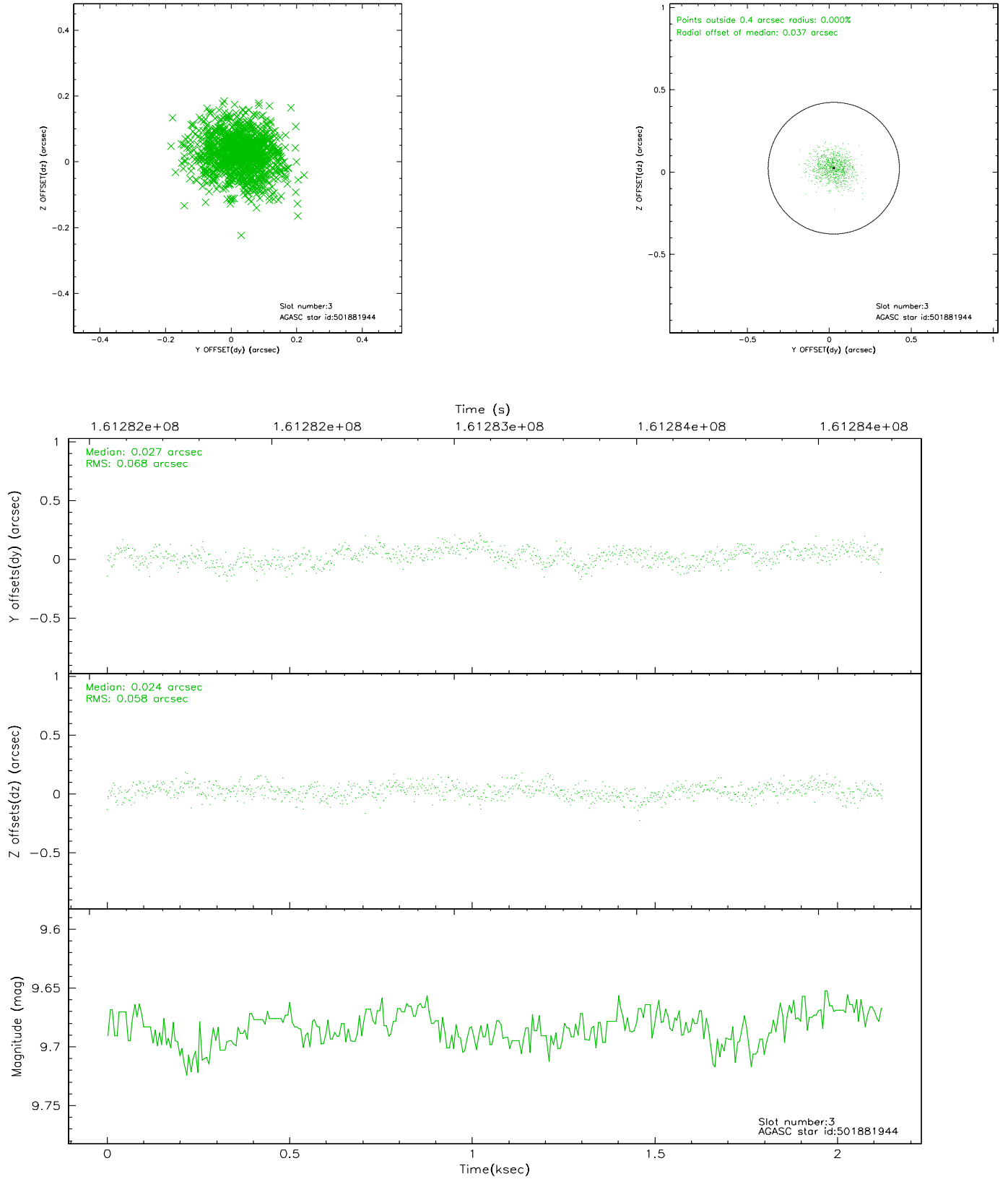
### Slot Statistics

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	519	-0.024	0.026	0.006	0.010	0.000000	0.000000	-755.00	-1727.91
1	FID	ACIS-S-4	7.21	519	-0.045	0.005	0.005	0.011	0.000000	0.000000	2156.85	177.41
2	FID	ACIS-S-5	7.24	519	0.039	-0.022	0.006	0.011	0.000000	0.000000	-1803.85	174.51
3	GUIDE	501881944	9.68	1036	0.027	0.024	0.096	0.156	160.035064	59.170822	-234.10	1487.91
4	GUIDE	501882104	8.44	1037	-0.018	-0.026	0.058	0.097	160.237120	59.342503	-348.72	777.49
5	GUIDE	501882184	9.31	1037	0.010	0.029	0.078	0.134	160.031338	59.950000	814.57	-1112.94
6	GUIDE	543171240	6.95	1037	-0.015	0.013	0.058	0.086	159.582780	60.124537	1796.81	-1401.10
7	GUIDE	543303456	9.19	1035	-0.003	-0.038	0.090	0.143	160.494249	60.031880	154.46	-1700.78

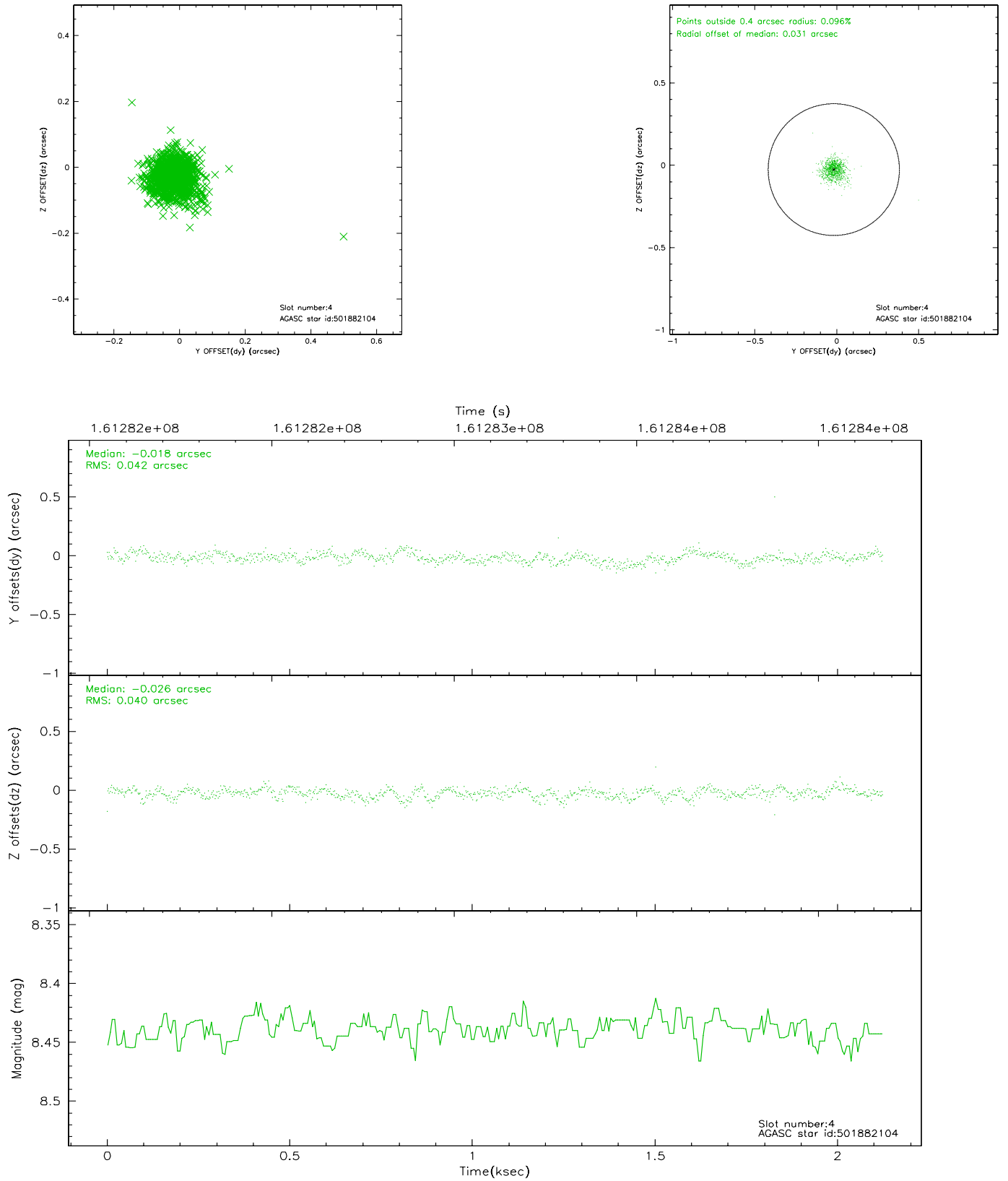


## 2.4 Star Slots

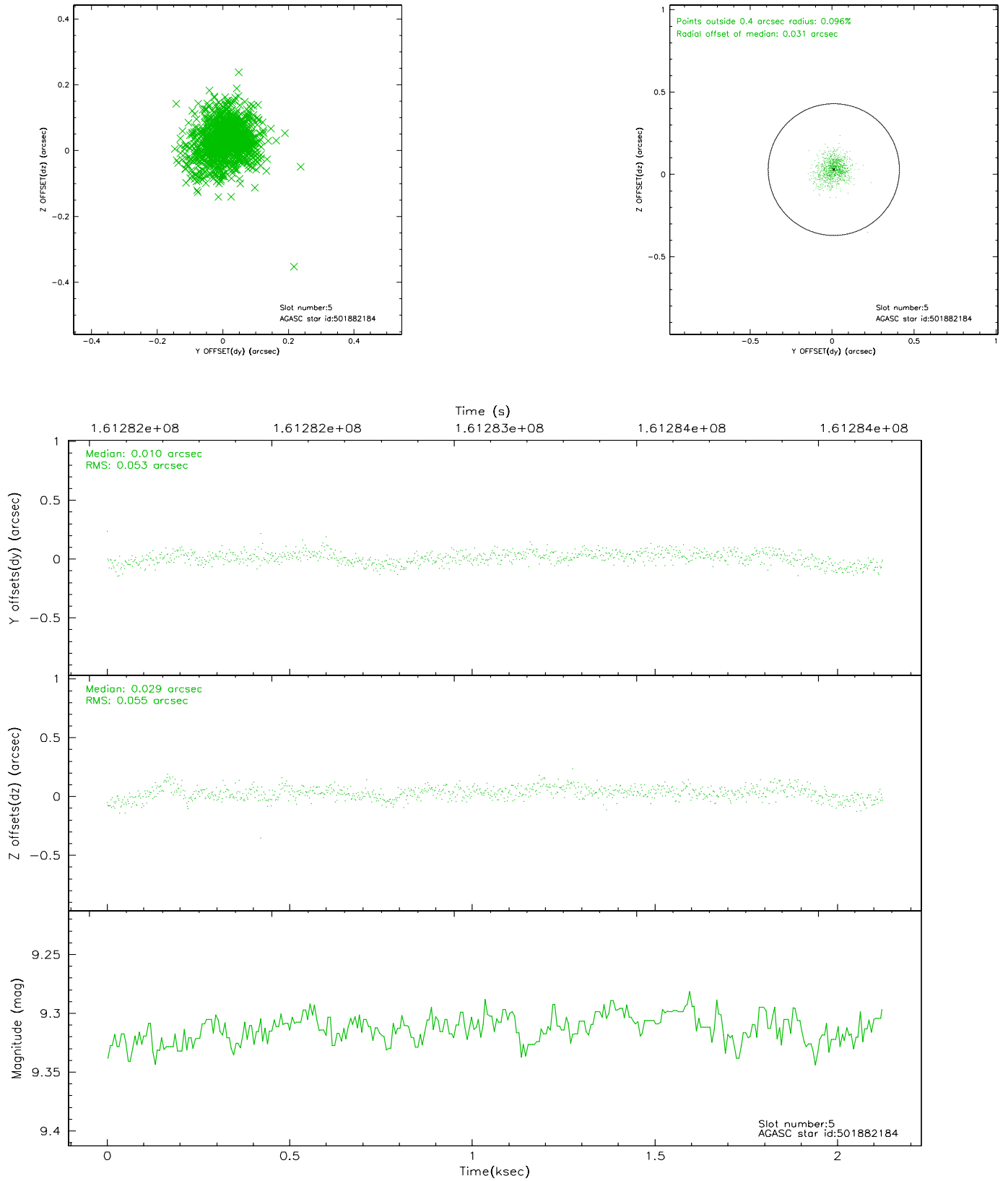
### 2.4.1 Slot 3



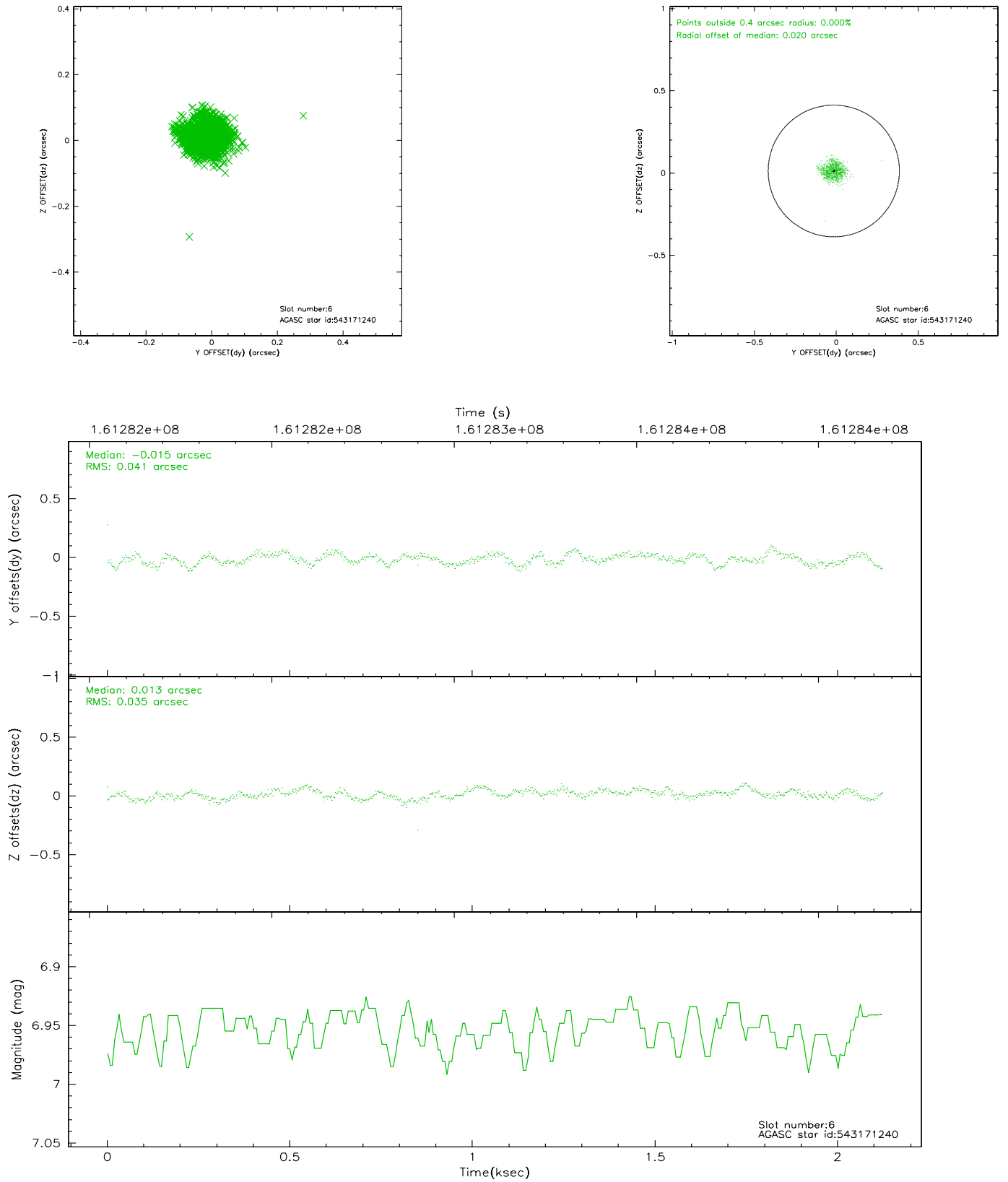
## 2.4.2 Slot 4



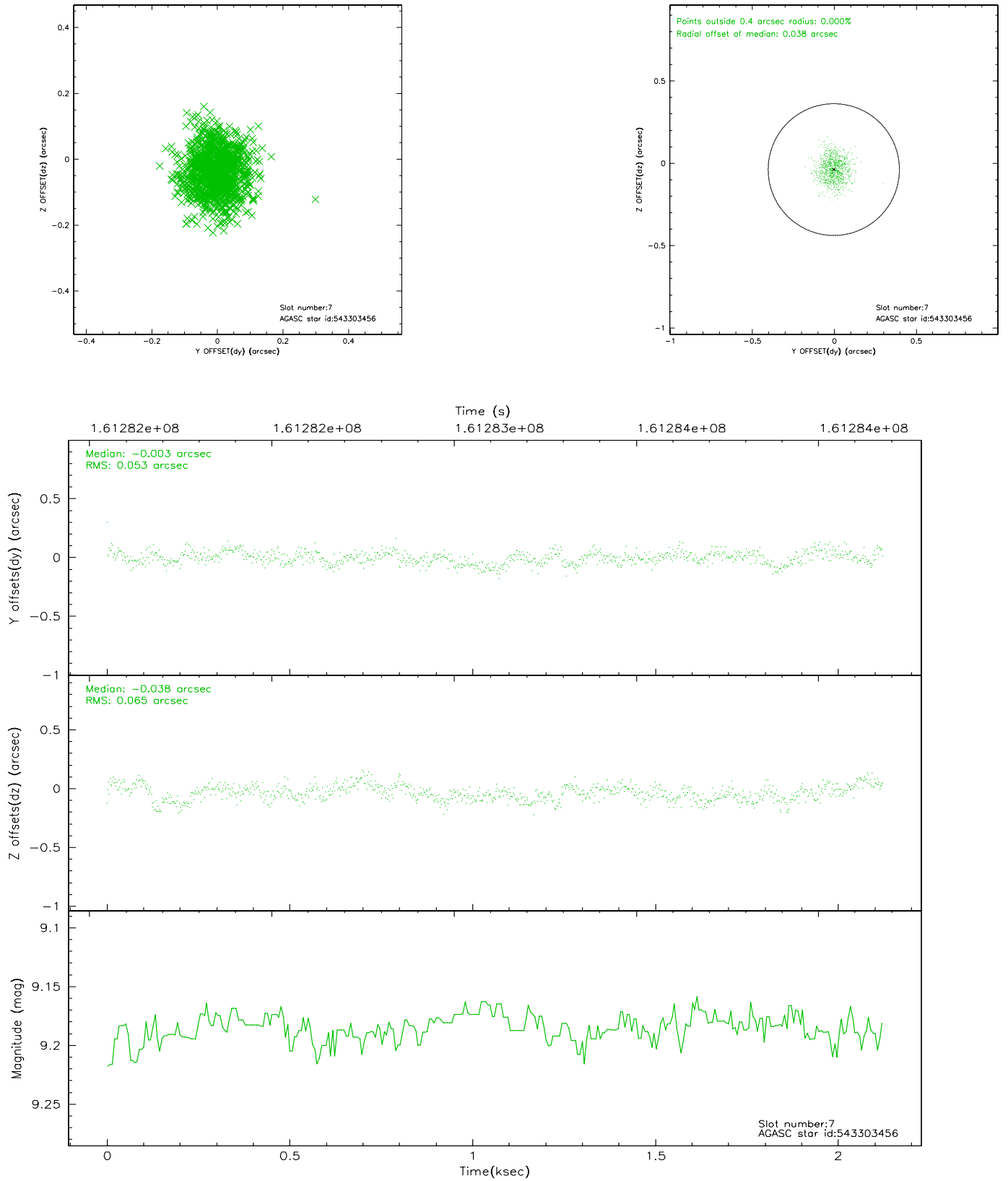
### 2.4.3 Slot 5



## 2.4.4 Slot 6

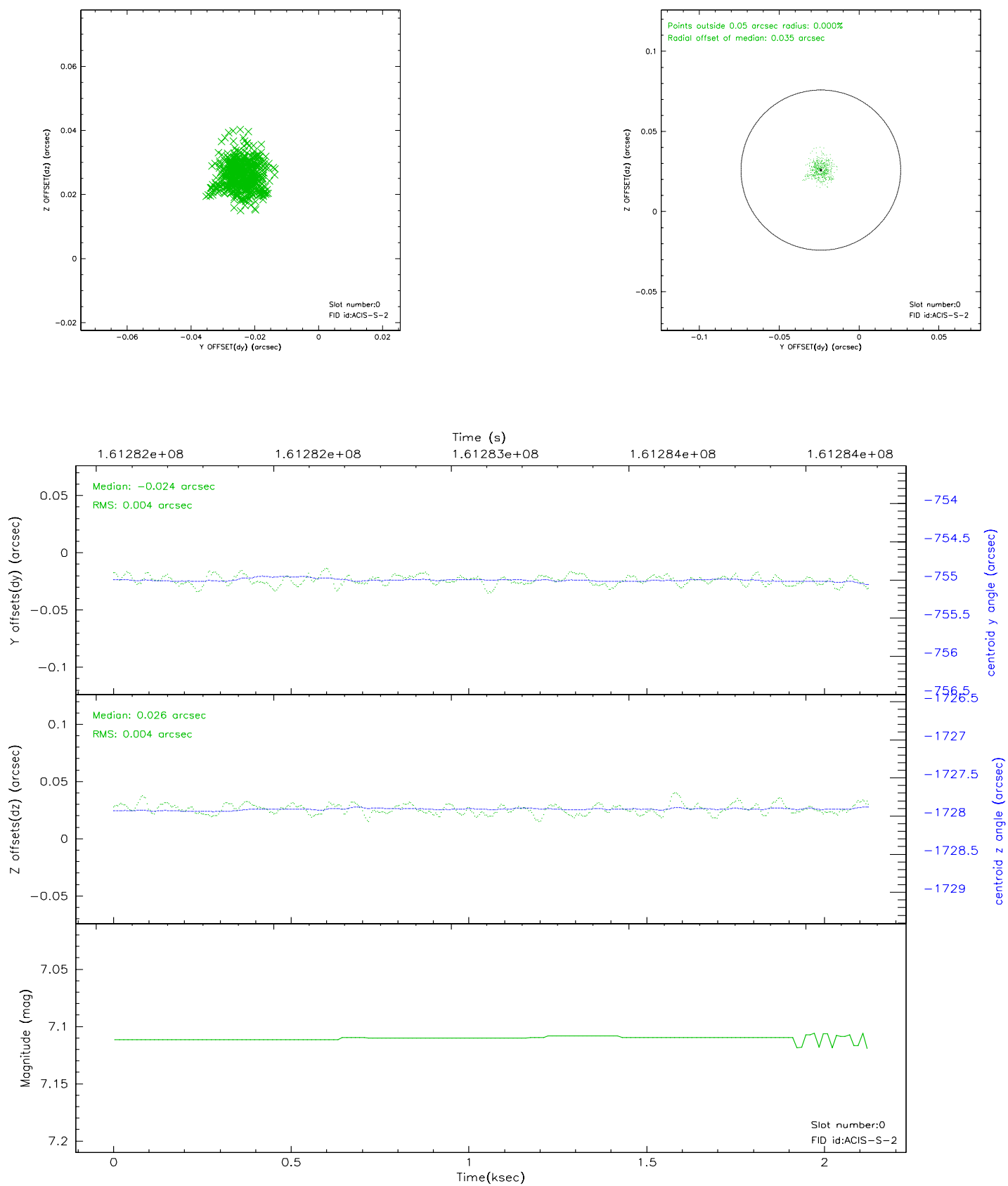


## 2.4.5 Slot 7

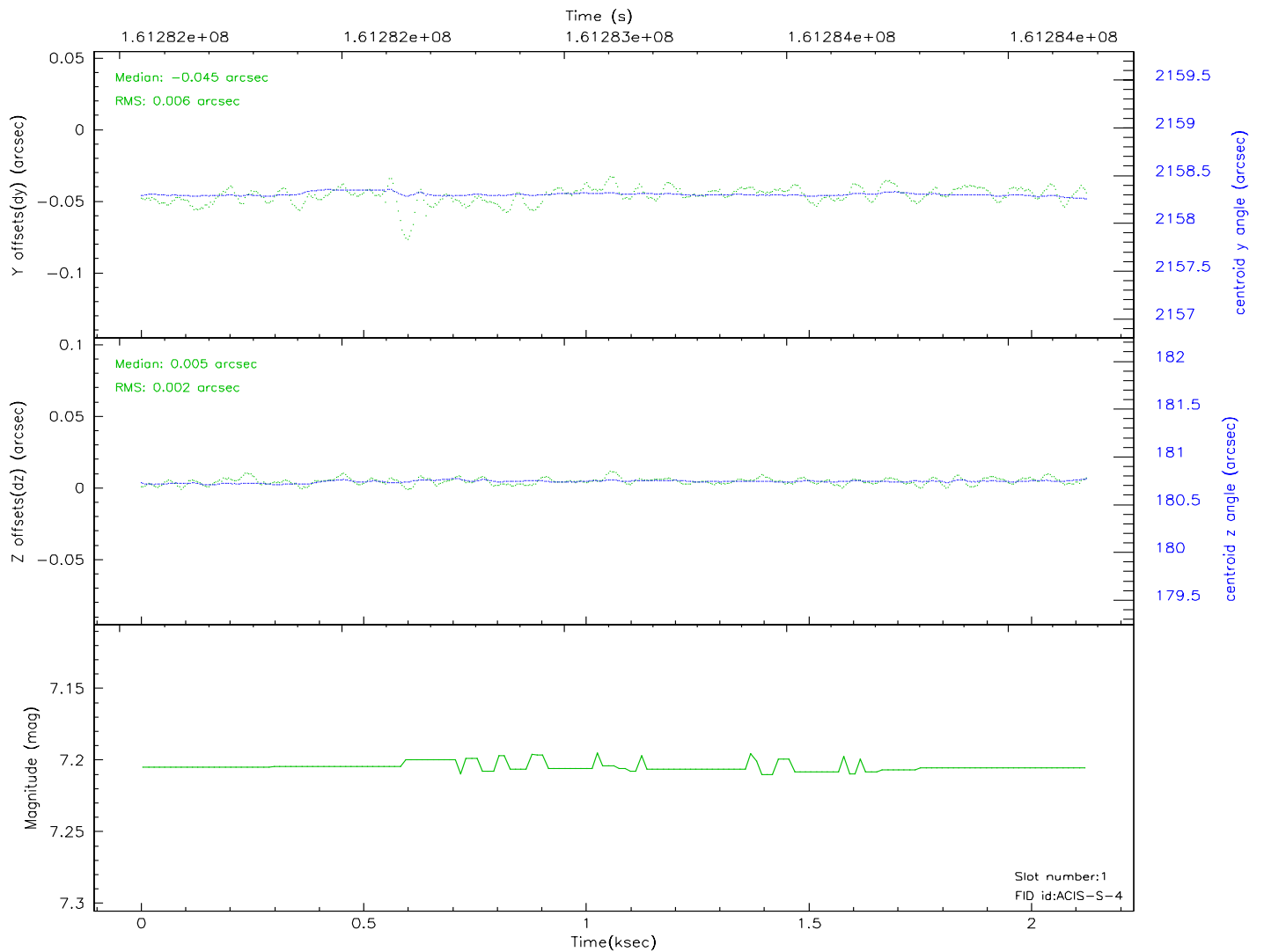
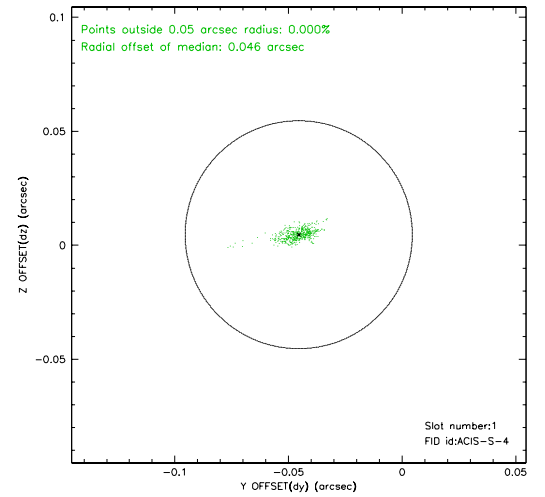
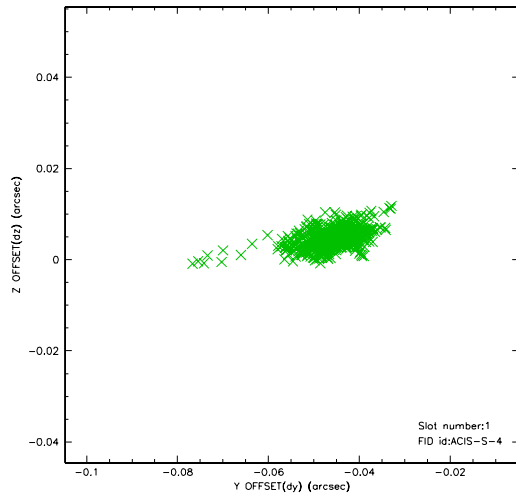


## 2.5 FID Slots

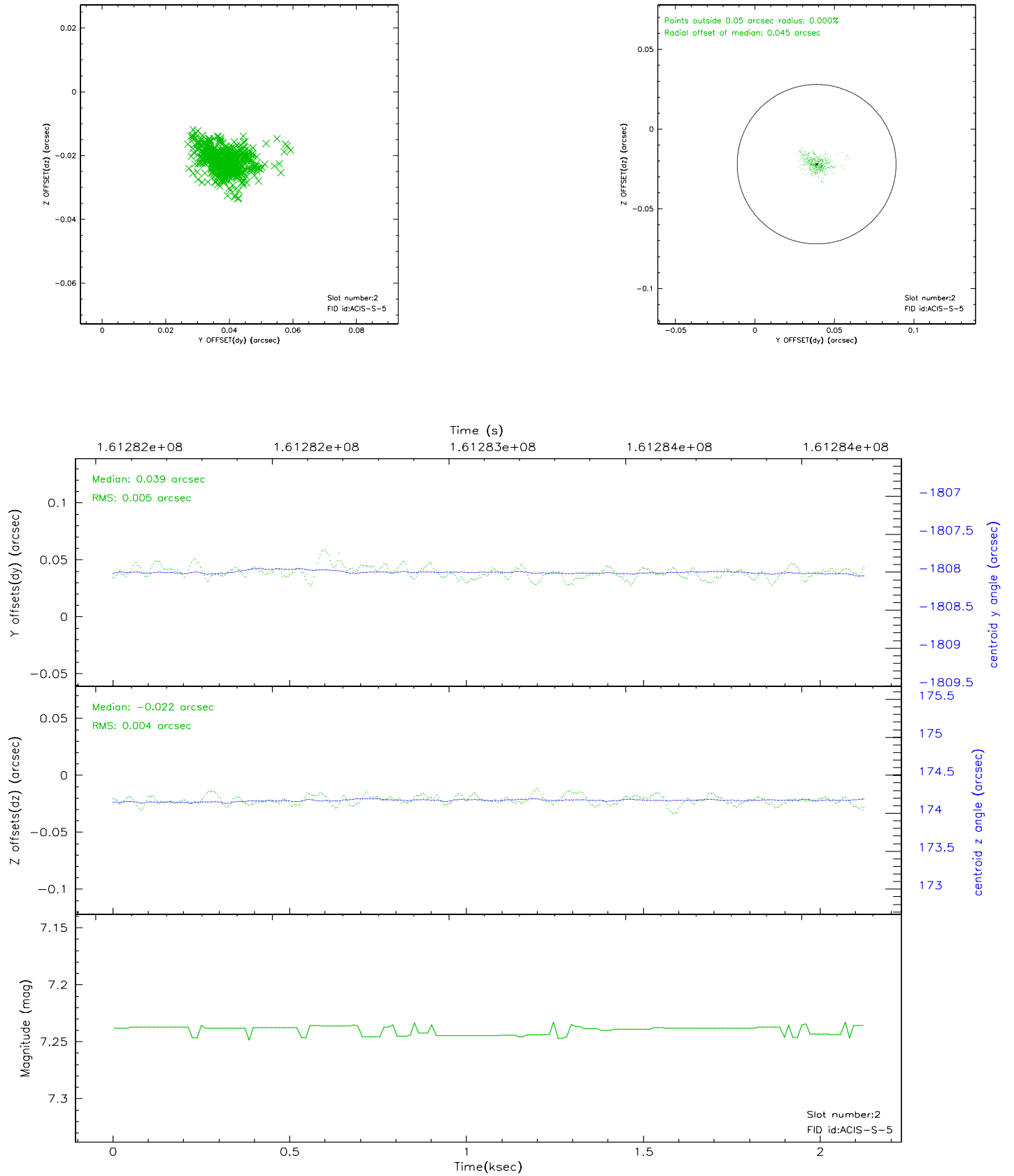
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





### 3 Point Sources

11.81 arcmin



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.07.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.391

### A.2 Comments