

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 5141 - L2 Version 001  
Chandra X-Ray Center

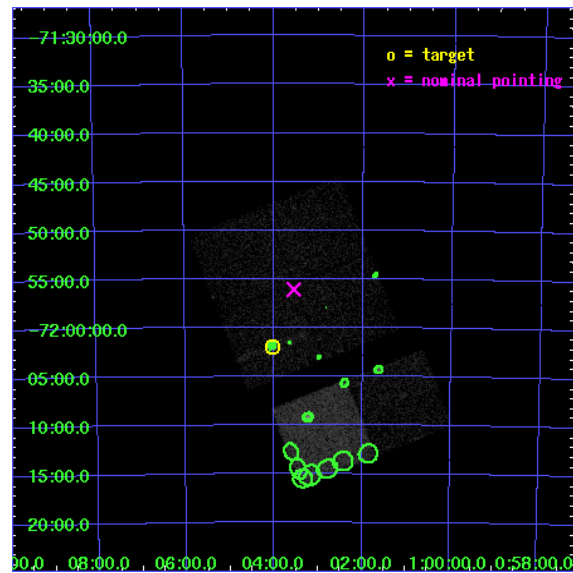
L2 Processing Date : May 20 2006

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# 1 Front

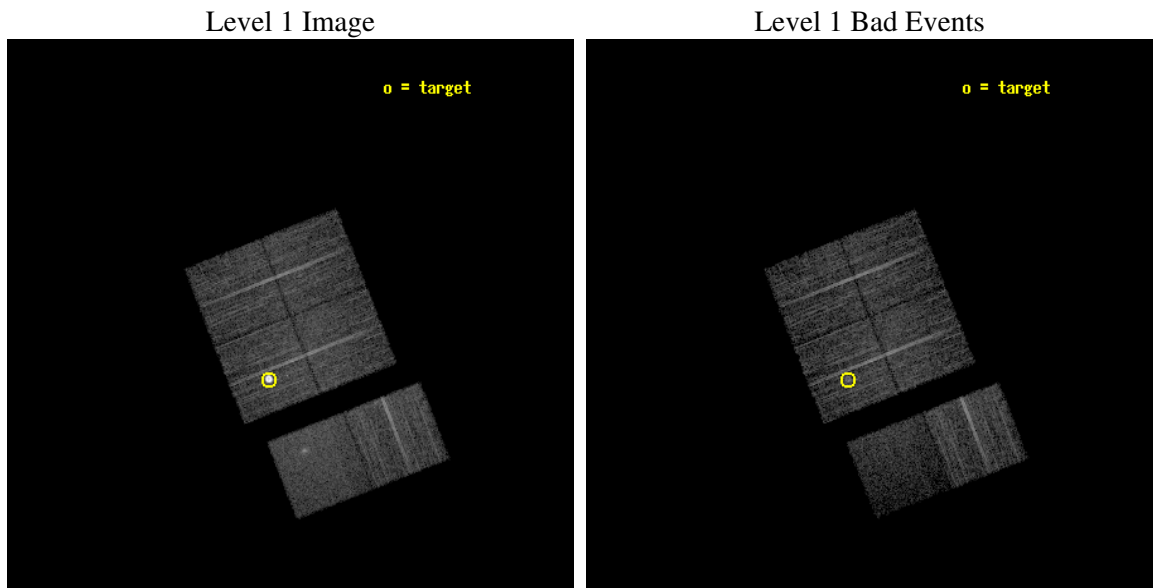
seq_num	590339
obs_id	5141
title	AO5B ACIS-I Calibration Observations of E0102-72
observer	Dr. CXC Calibration
object	E0102-72[I3,-120,-4.0,4.5,0]
dtcycle	0
cycle	P
ra_targ	16.01
dec_targ	-72.032028
ra_nom	15.887764634224
dec_nom	-71.934602088958
roll_nom	158.59871426385
revision	2
ontime	7753.5999711156
livetime	7655.4192196239
ontime0	7753.5999711156
ontime1	7753.5999711156
ontime2	7753.5999711156
ontime3	7753.5999711156
ontime6	7753.5999711156
ontime7	7753.5999711156
l2events	60151



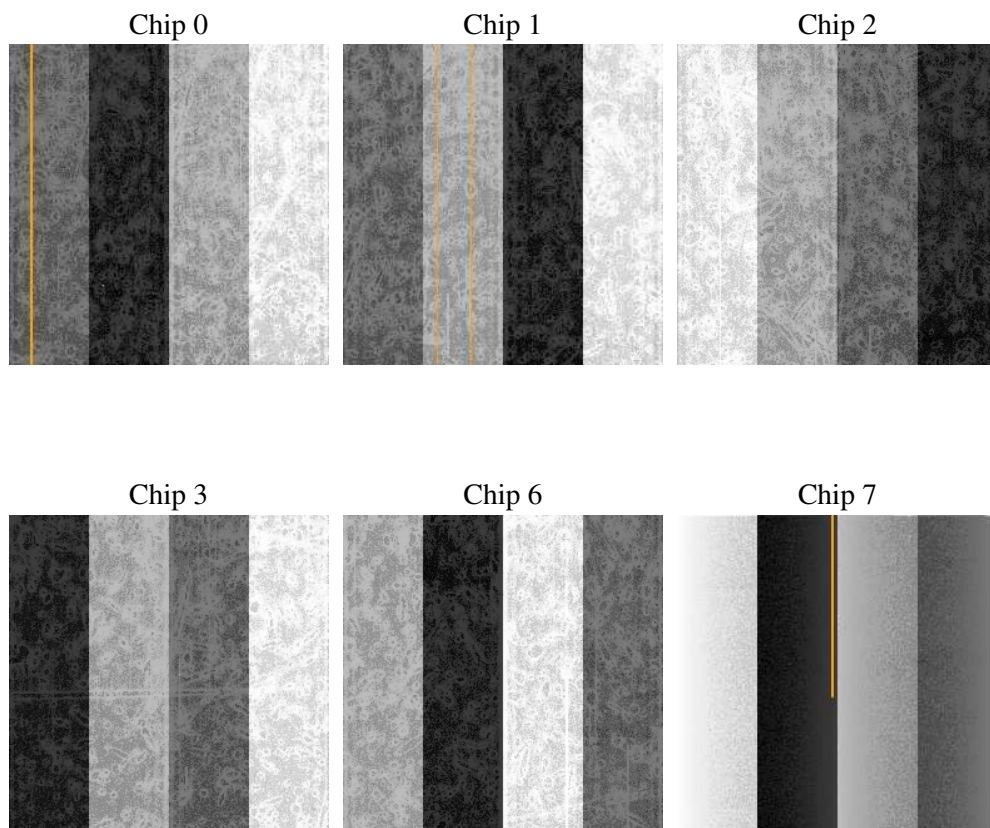
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.2
caldsver	3.2.2
date	2006-05-20T12:29:24
revision	2

sched_exp_time	8000.000000
ontime	7758.9566919208
ontime0	7758.9566919208
ontime1	7758.9566919208
ontime2	7758.9566919208
ontime3	7758.9566919208
ontime6	7758.9567118585
ontime7	7758.9567118585
l1events	276466

### 2.1.4 Events

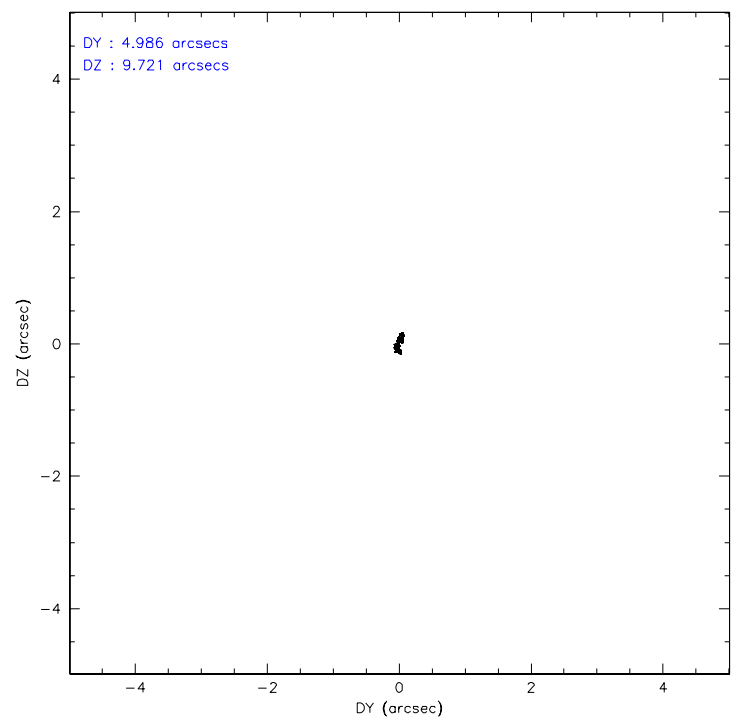
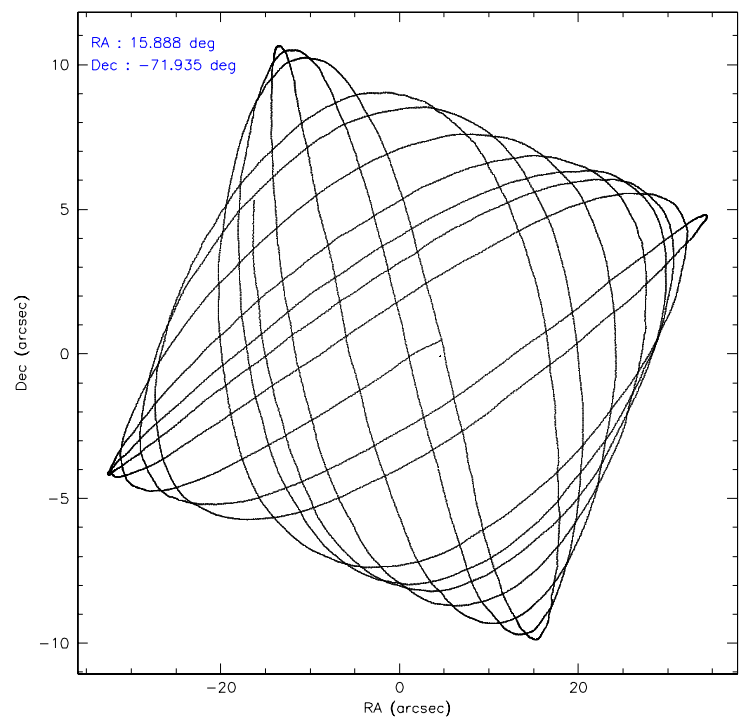
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	39916	38862	43766	67691	45428	40803
rejected events	35613	34574	39438	40131	40773	21473
rejected %	89%	88%	90%	59%	89%	52%

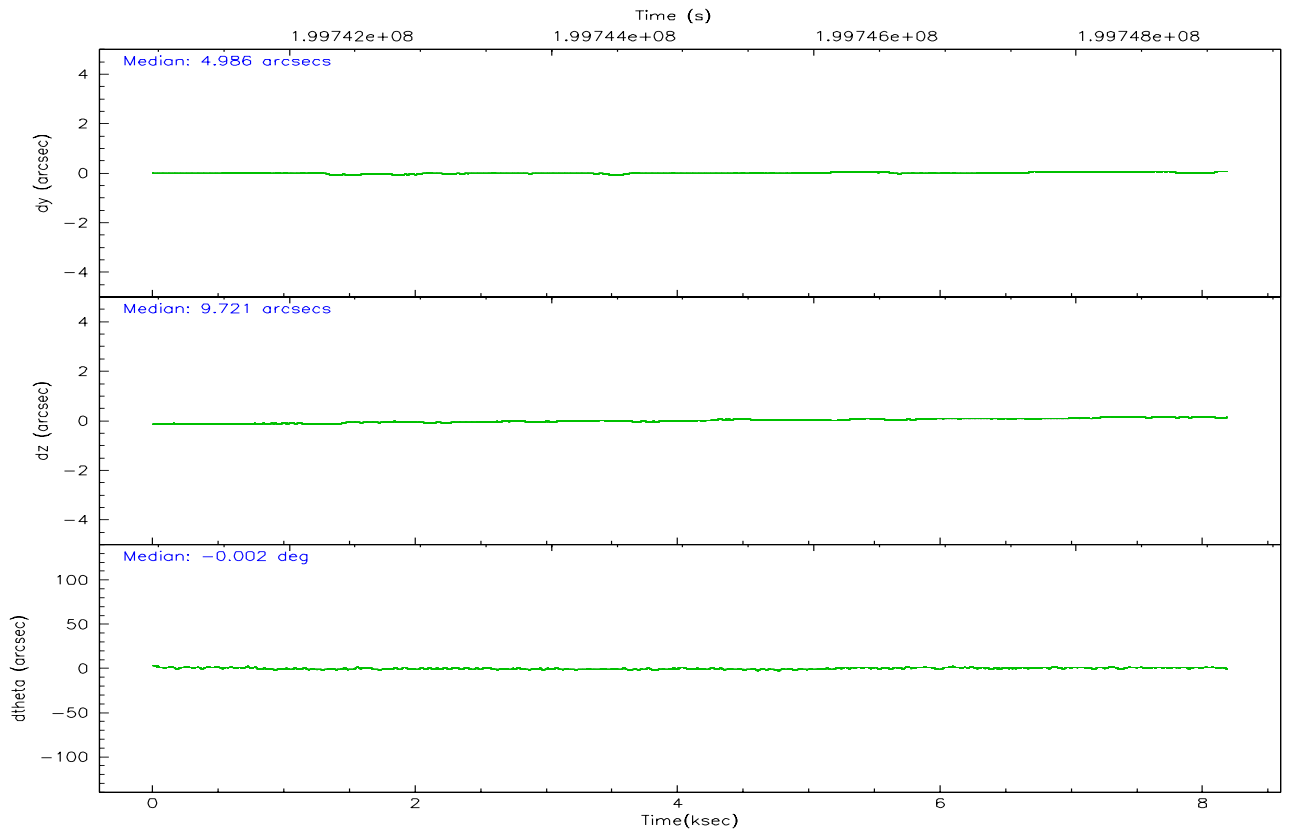
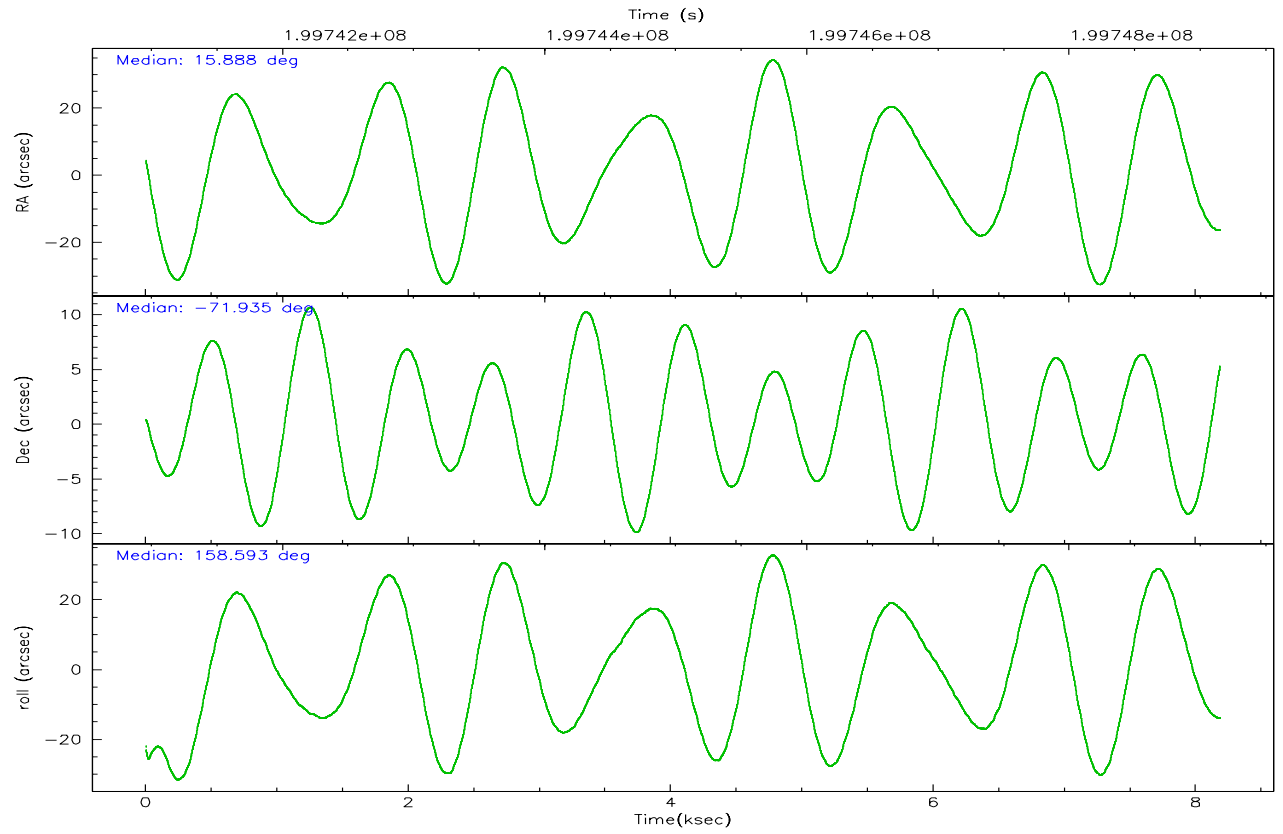
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	1530	1426	1657	22664	1879	1522
	3%	3%	3%	33%	4%	3%
grade 1 events	23	20	22	209	23	28
	0%	0%	0%	0%	0%	0%
grade 2 events	976	872	1009	2360	944	5060
	2%	2%	2%	3%	2%	12%
grade 3 events	507	541	476	870	515	1194
	1%	1%	1%	1%	1%	2%
grade 4 events	493	511	474	821	455	1203
	1%	1%	1%	1%	1%	2%
grade 5 events	1321	1368	1276	1507	1462	3323
	3%	3%	2%	2%	3%	8%
grade 6 events	801	943	717	861	866	10365
	2%	2%	1%	1%	1%	25%
grade 7 events	34265	33181	38135	38399	39284	18108
	85%	85%	87%	56%	86%	44%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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	15.975097	15.88776463422425	Alternating exposures requested	N	N
Pointing Dec	-71.930317	-71.9346020889582	Primary exposure time	0.000000	3.2
Pointing Roll	158.473056	158.5987142638509			
Window start time	197164864.184000	197164864.184000			
Window stop time	199670464.184000	199670464.184000			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	199741149.184000	199740773.60529			
Observation start date	2004-04-30T19:38:05	2004-04-30T19:32:53			
Observation end time	199749149.184000	199749283.15567			
Observation end date	2004-04-30T21:51:25	2004-04-30T21:54:43			
Read mode	TIMED	TIMED			

### 2.3 Aspect





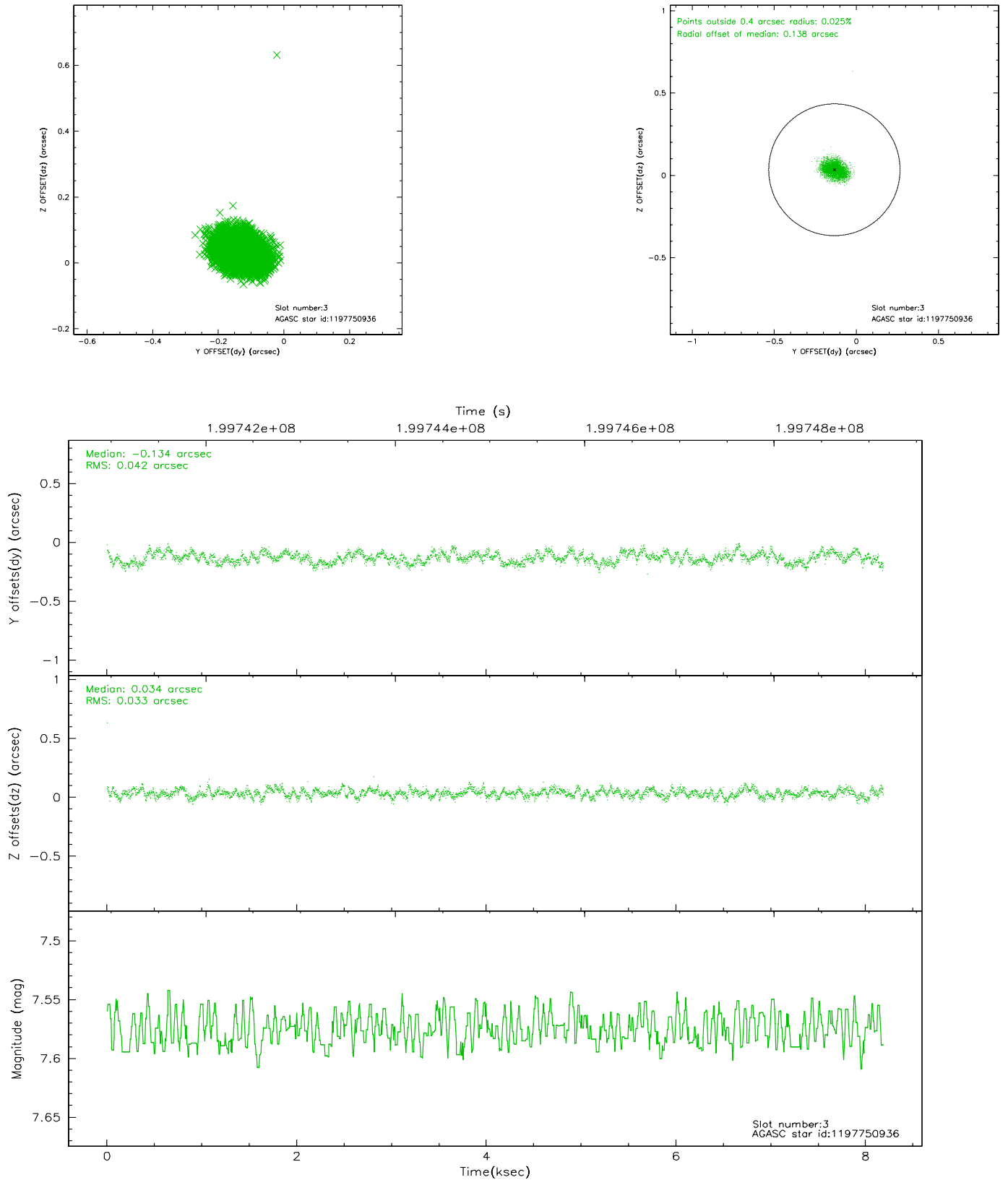
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	1996	-0.040	-0.032	0.009	0.015	0.000000	0.000000	-759.46	-839.59
1	FID	ACIS-I-4	7.17	1997	0.059	0.039	0.006	0.011	0.000000	0.000000	2154.38	1066.31
2	FID	ACIS-I-5	7.22	1997	-0.120	0.062	0.010	0.016	0.000000	0.000000	-1812.49	1064.96
3	GUIDE	1197750936	7.57	3994	-0.134	0.034	0.057	0.088	15.387940	-71.549550	1124.17	-1026.32
4	GUIDE	1197884536	8.50	3994	0.027	0.024	0.059	0.095	17.160729	-71.835289	-1116.41	-794.60
5	GUIDE	1197884712	8.30	3994	-0.007	-0.059	0.053	0.086	16.087398	-72.252690	-540.73	1034.22
6	GUIDE	1197885104	9.34	3994	0.123	-0.045	0.099	0.156	17.845067	-72.189368	-2268.84	142.18
7	GUIDE	1197885328	7.24	3993	-0.013	0.042	0.059	0.093	16.283090	-71.733943	-64.83	-784.57

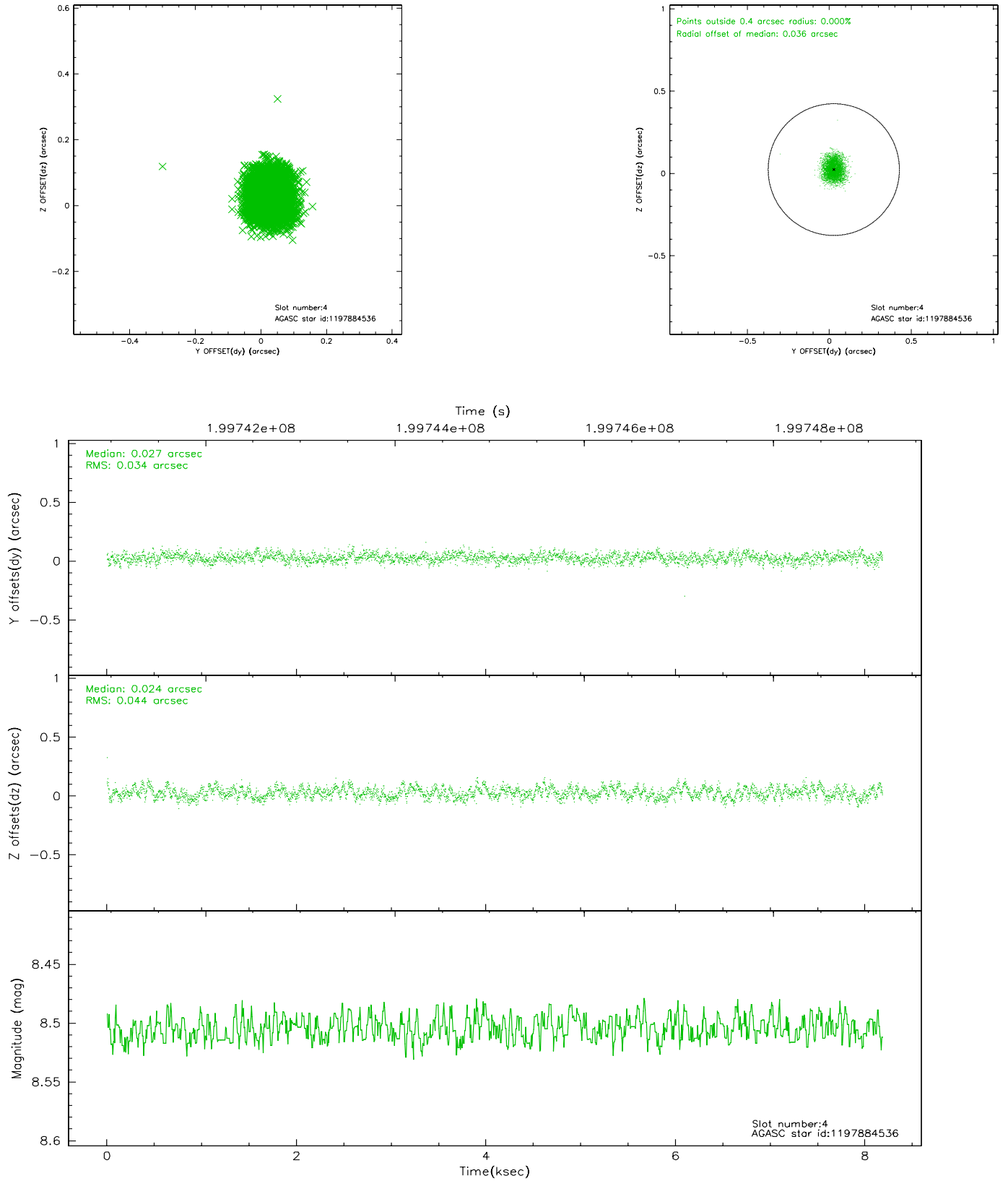


## 2.4 Star Slots

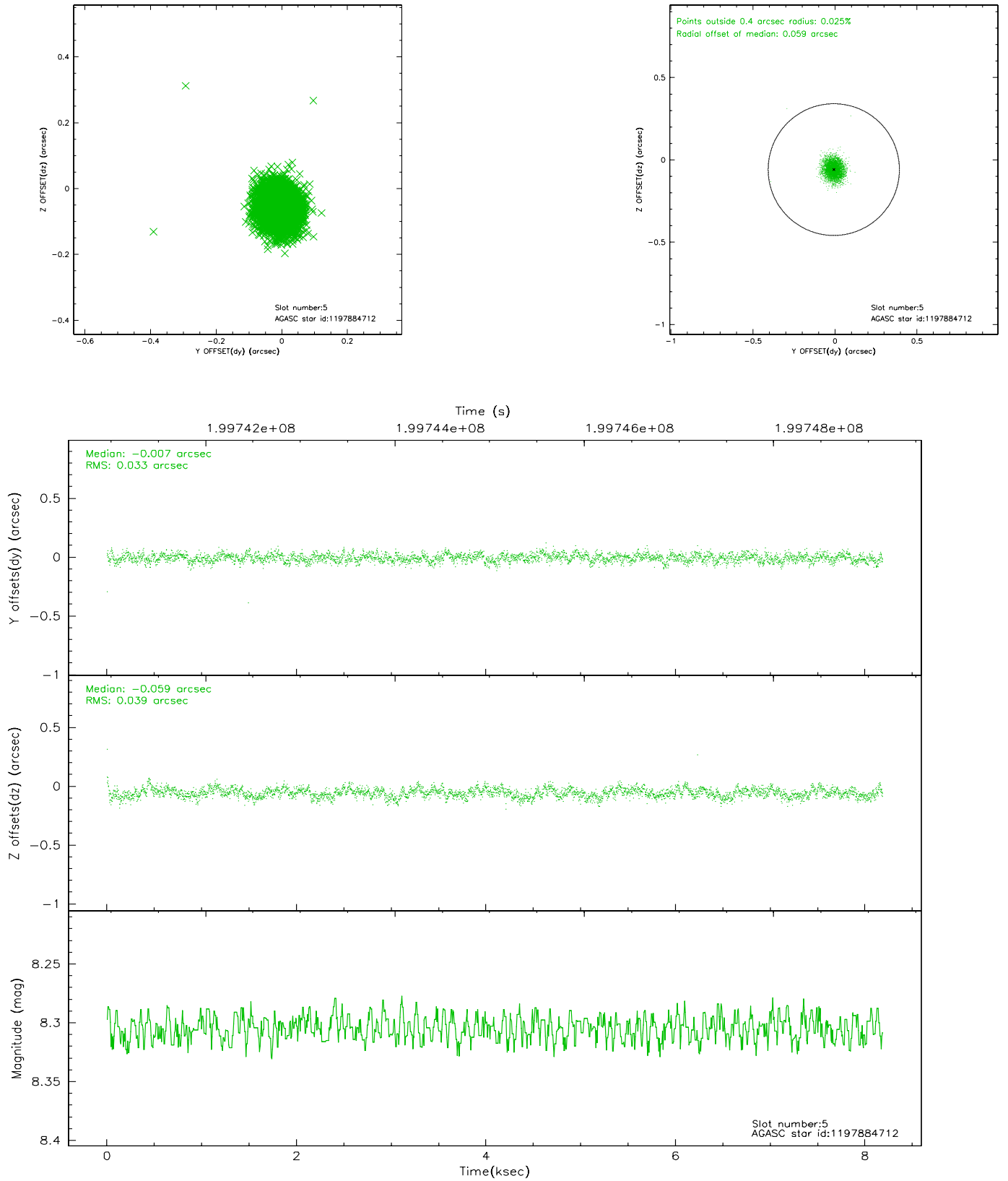
### 2.4.1 Slot 3



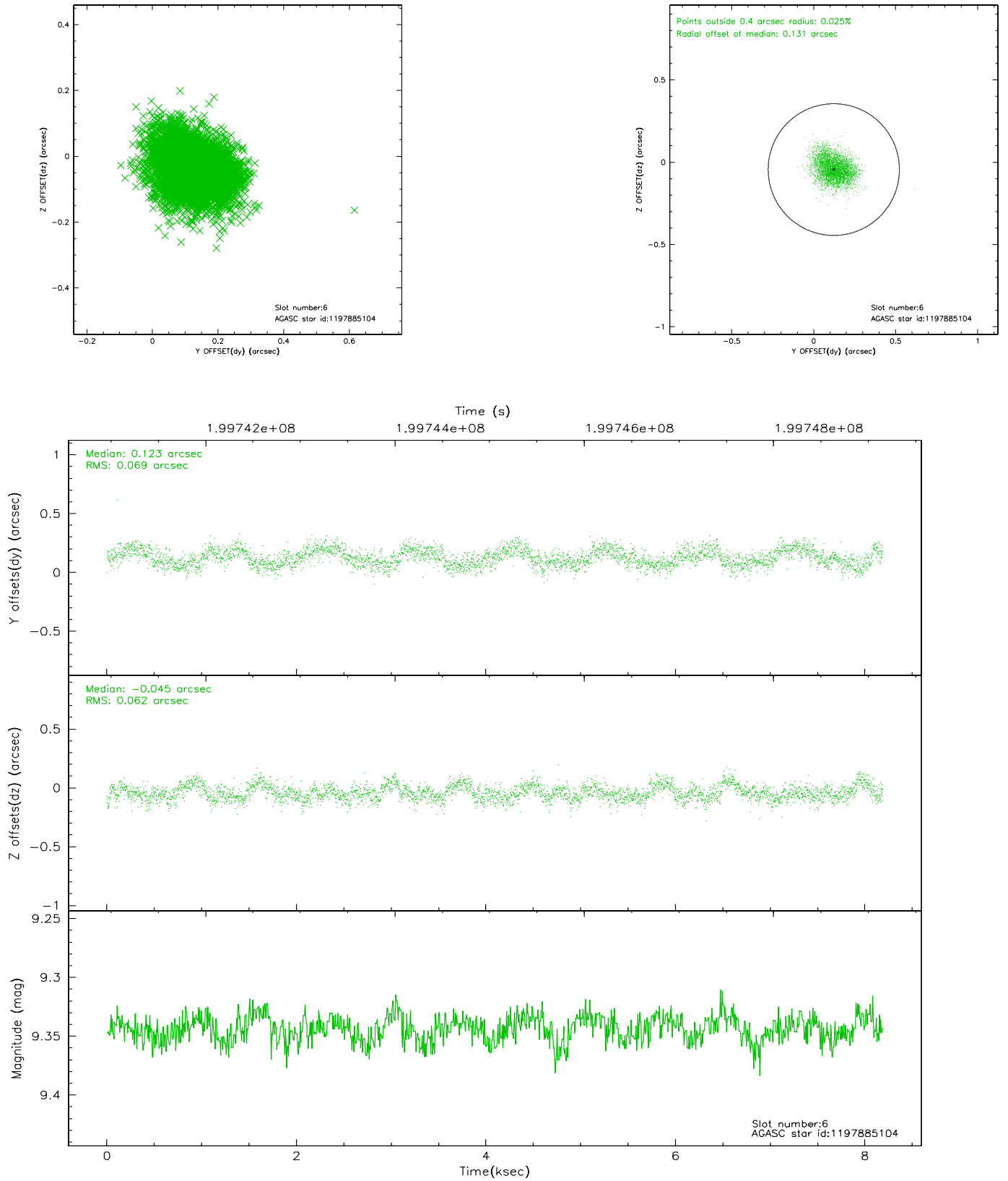
## 2.4.2 Slot 4



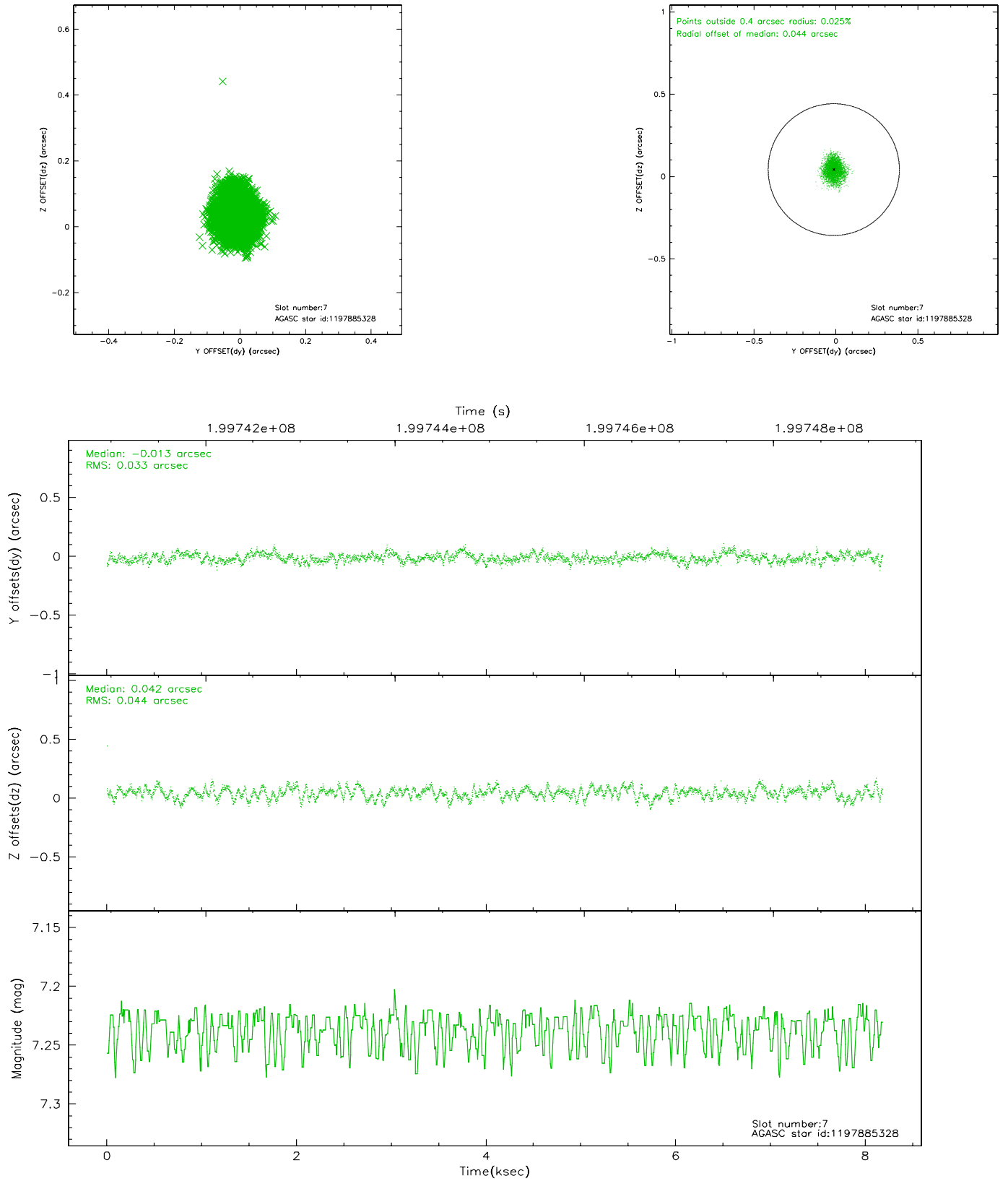
### 2.4.3 Slot 5



## 2.4.4 Slot 6

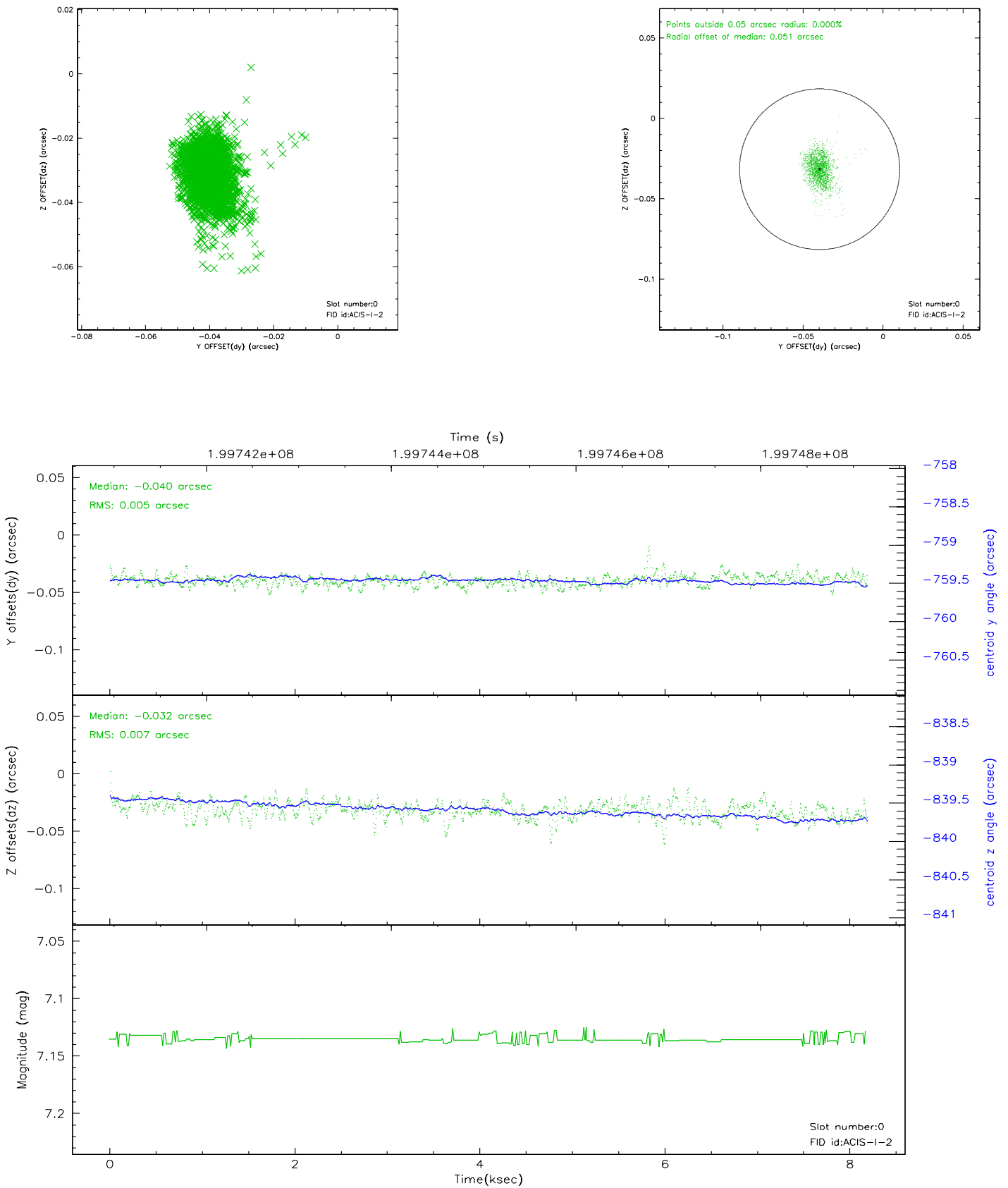


## 2.4.5 Slot 7

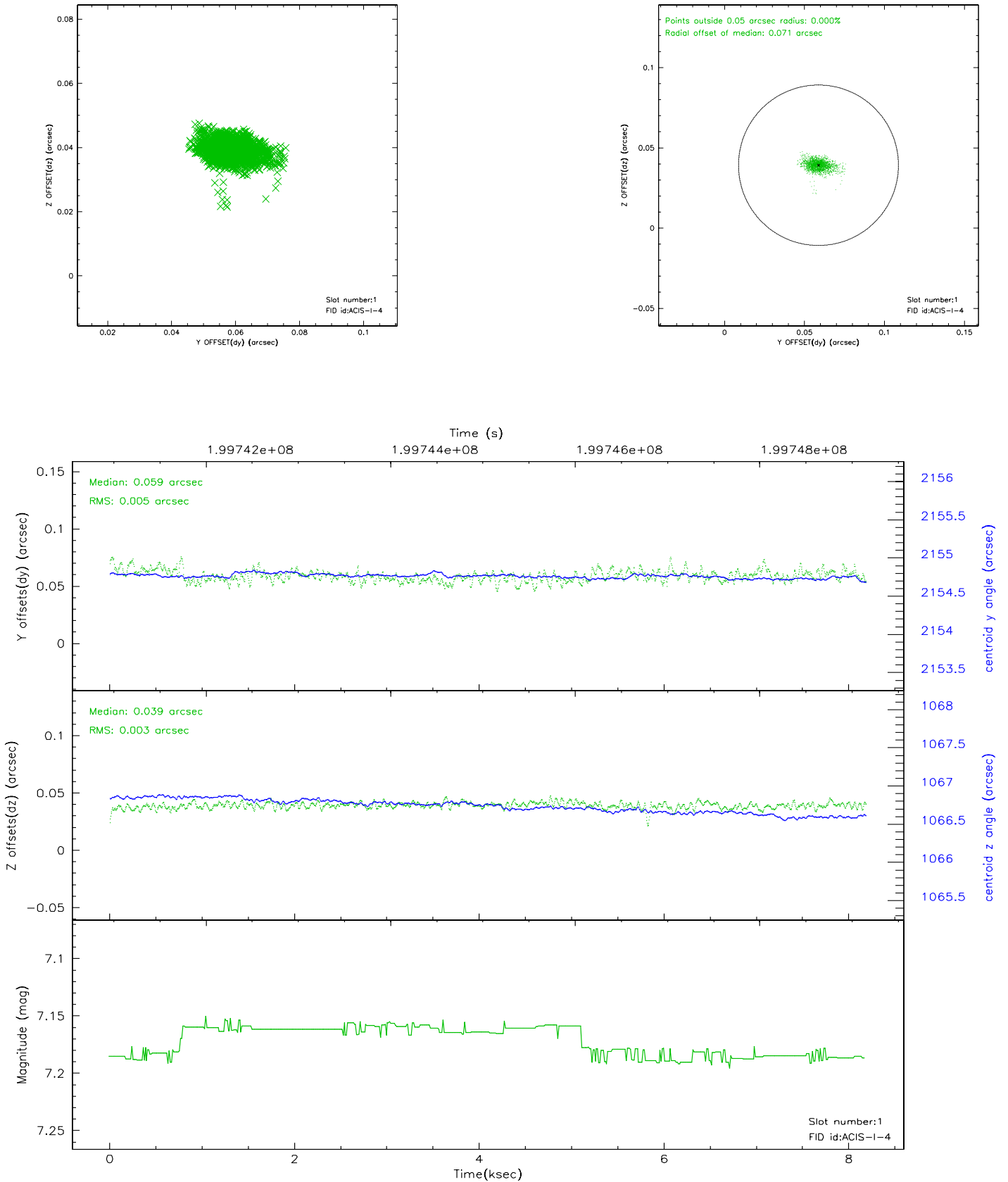


## 2.5 FID Slots

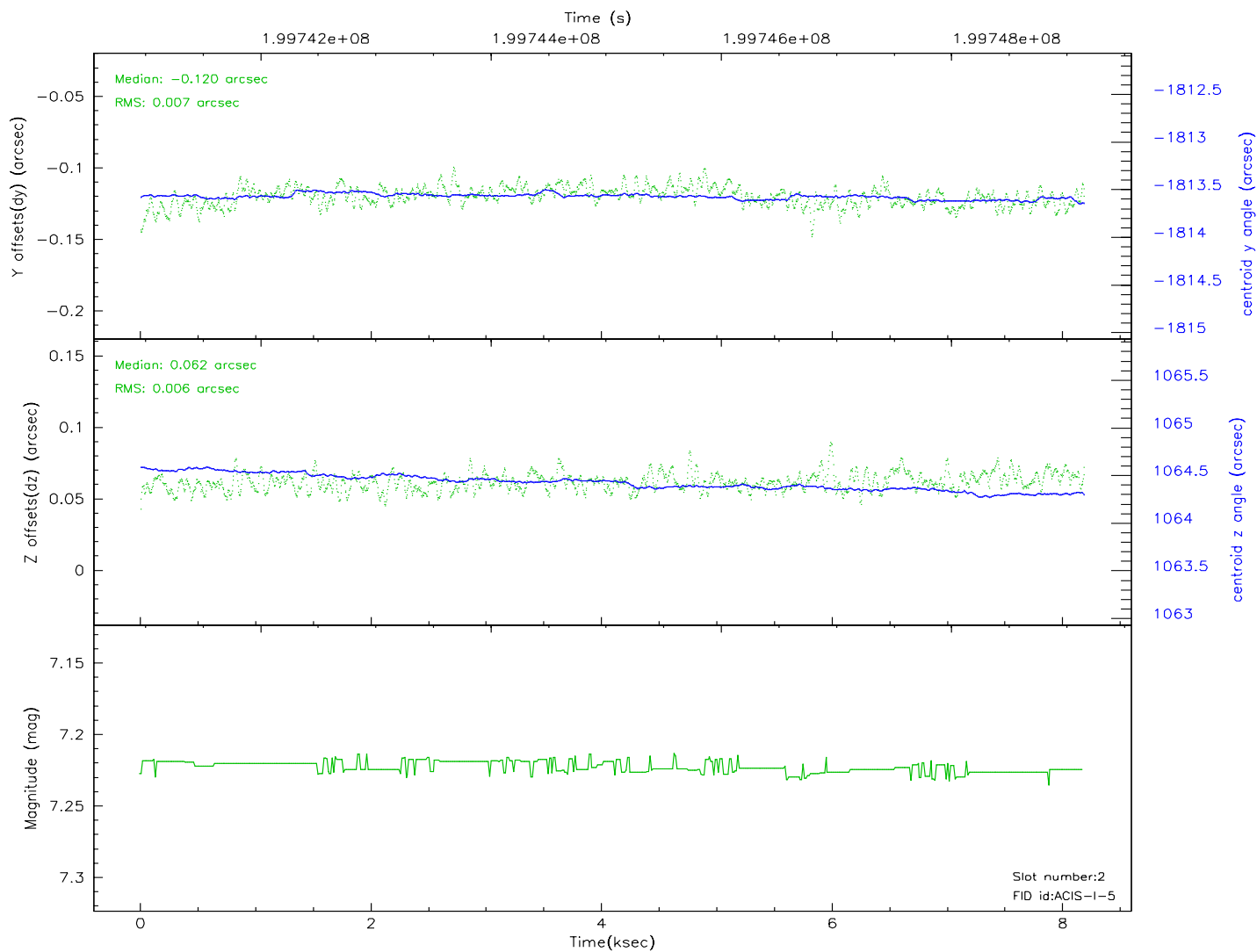
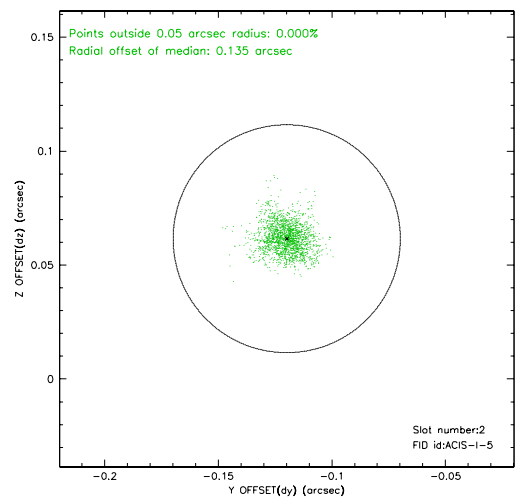
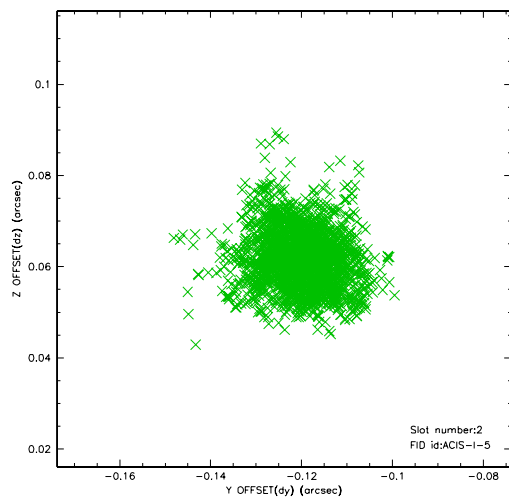
### 2.5.1 Slot 0



## 2.5.2 Slot 1

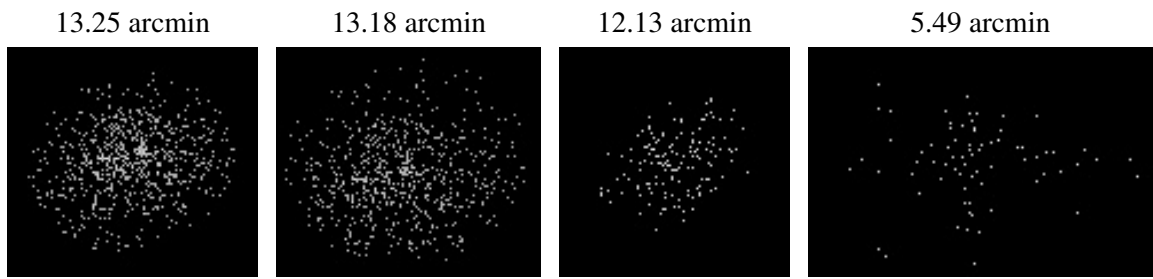


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.05.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.756

### A.2 Comments

Window constraint not satisfied.