

# V&V Reference Report

## L2 ASCDS Version : 7.6.7

Observation 6042 - L2 Version 002  
Chandra X-Ray Center

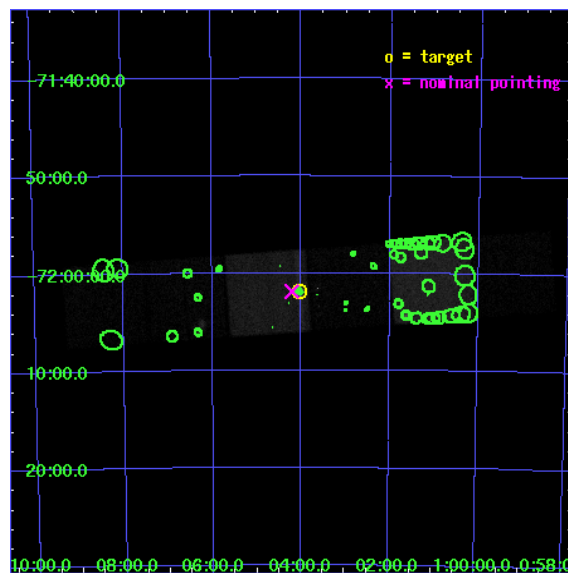
L2 Processing Date: Feb 28 2006

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# 1 Front

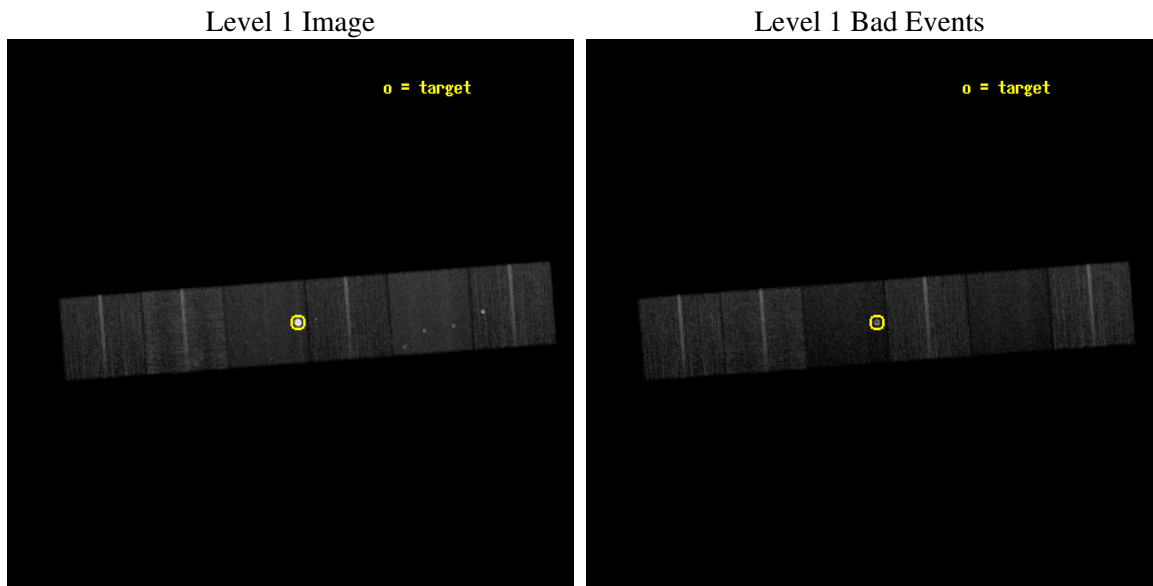
seq_num	590369
obs_id	6042
title	AO6B ACIS-S Calibration Observations of E0102-72
observer	Dr. CXC Calibration
object	E0102-72[S3,-120,1,0,0]
dtcycle	0
cycle	P
ra_targ	16.01
dec_targ	-72.032028
ra_nom	16.05132971399
dec_nom	-72.031352917796
roll_nom	175.71418413306
revision	2
ontime	19145.599928677
livetime	18903.166814284
ontime4	19145.599928677
ontime5	19145.599928677
ontime6	19142.358958393
ontime7	19145.599928677
ontime8	19145.599928677
ontime9	19145.599928677
l2events	285432



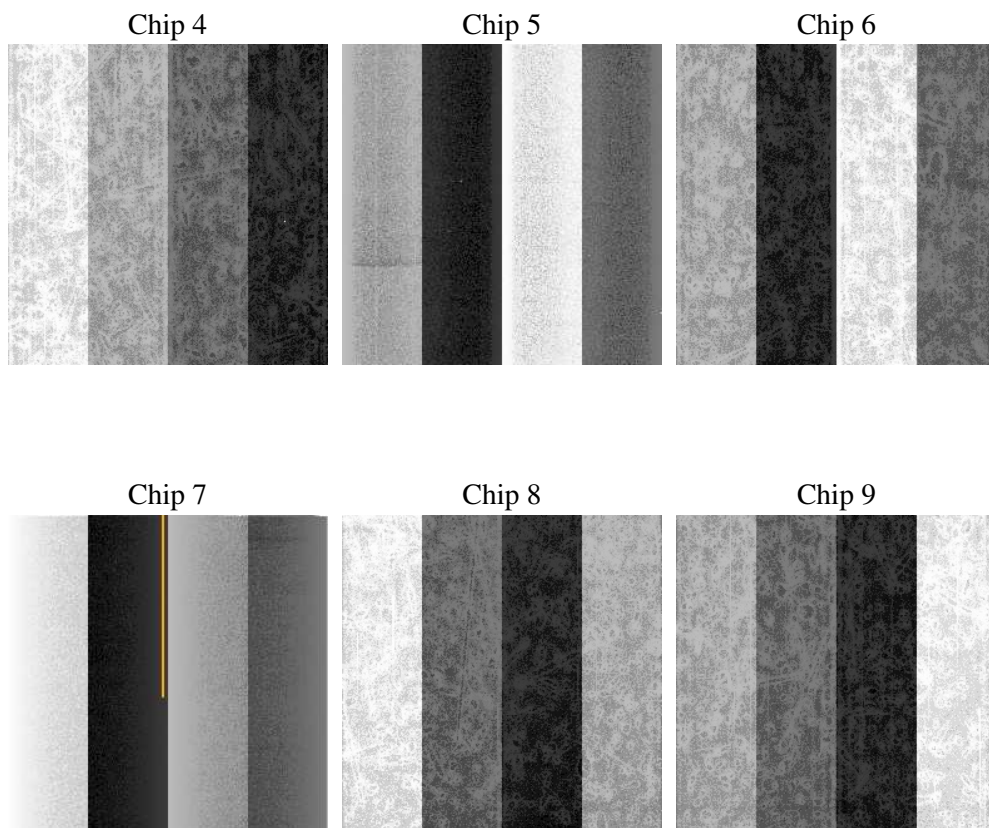
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7
caldsver	3.2.1
date	2006-02-28T20:54:34
revision	2

sched_exp_time	19000.000000
ontime	19245.07634452
ontime4	19245.07634452
ontime5	19245.07634452
ontime6	19241.835374236
ontime7	19245.07634452
ontime8	19245.07634452
ontime9	19248.317364633
l1events	884928

### 2.1.4 Events

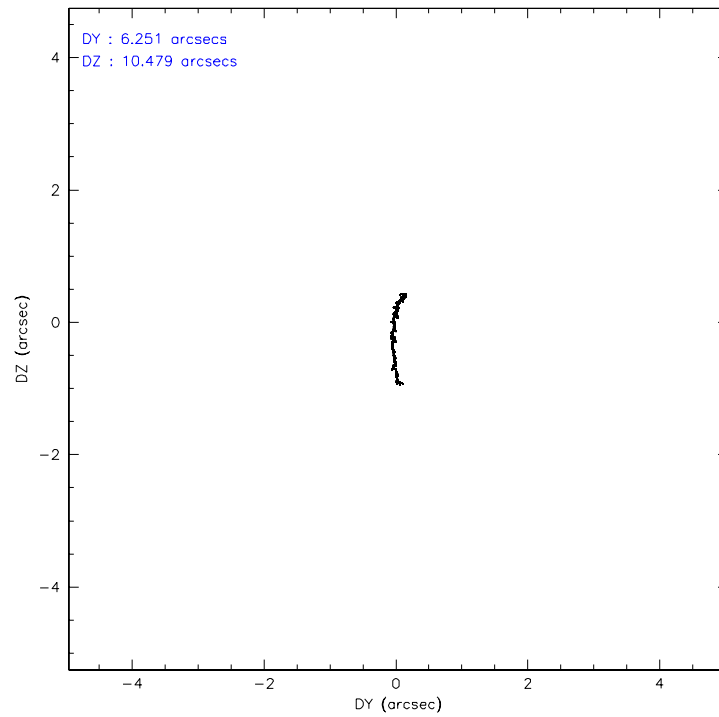
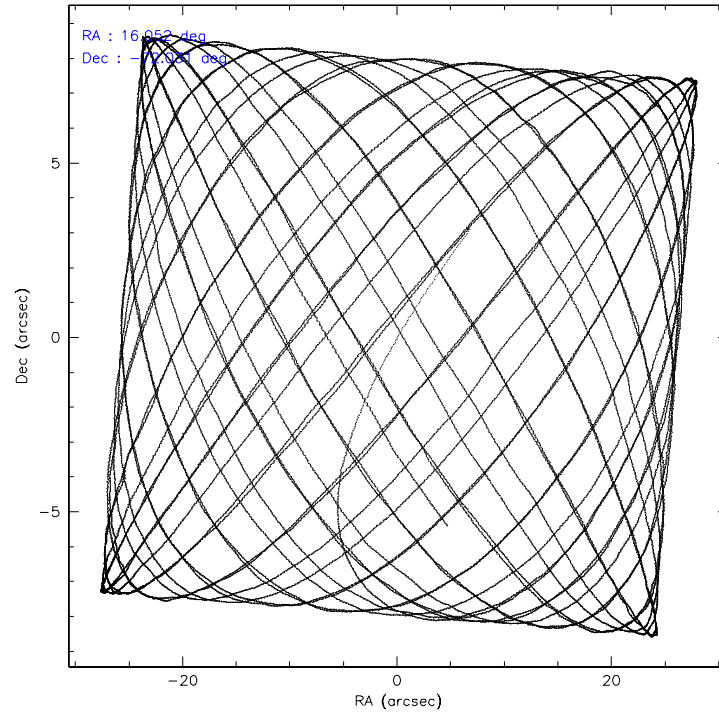
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	136001	138073	116395	242529	141398	110532
rejected events	120655	68309	103567	63883	107827	99234
rejected %	88%	49%	88%	26%	76%	89%

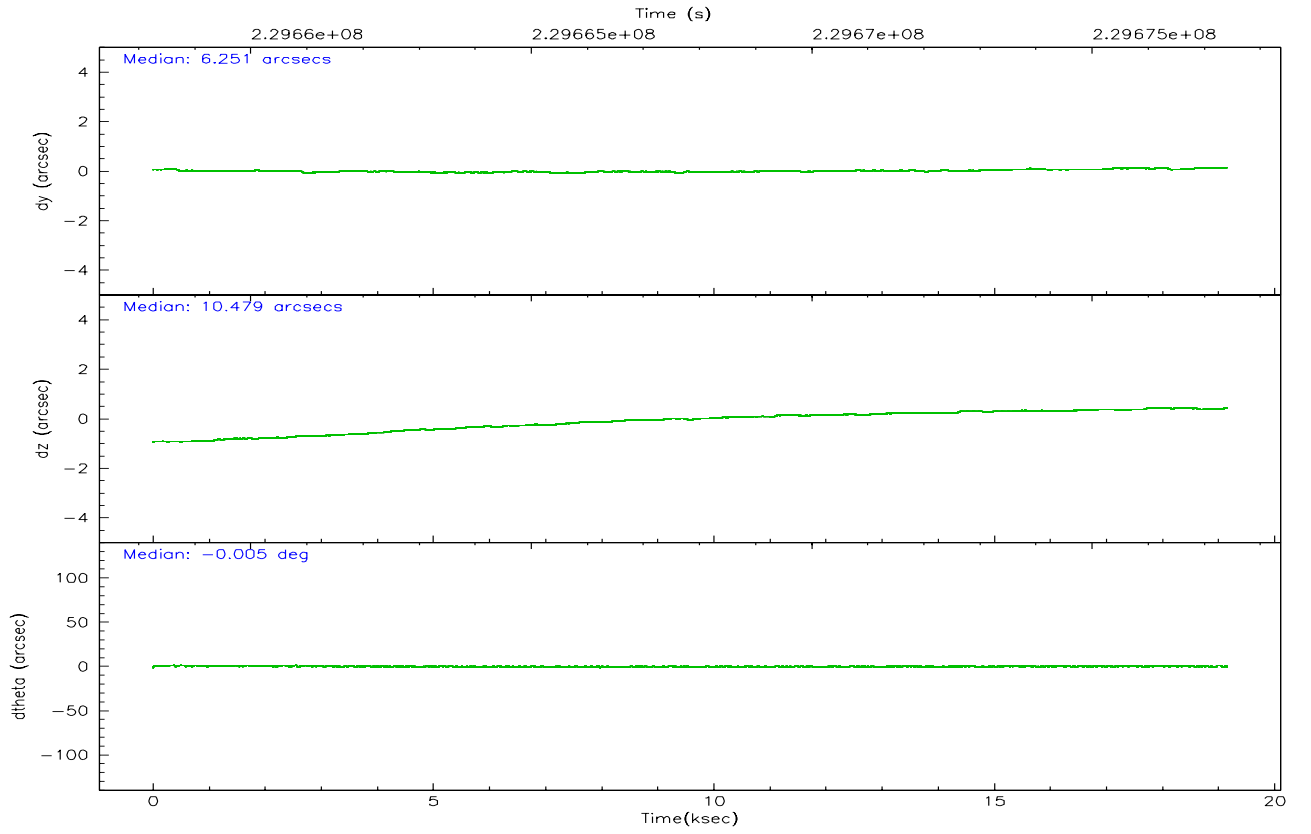
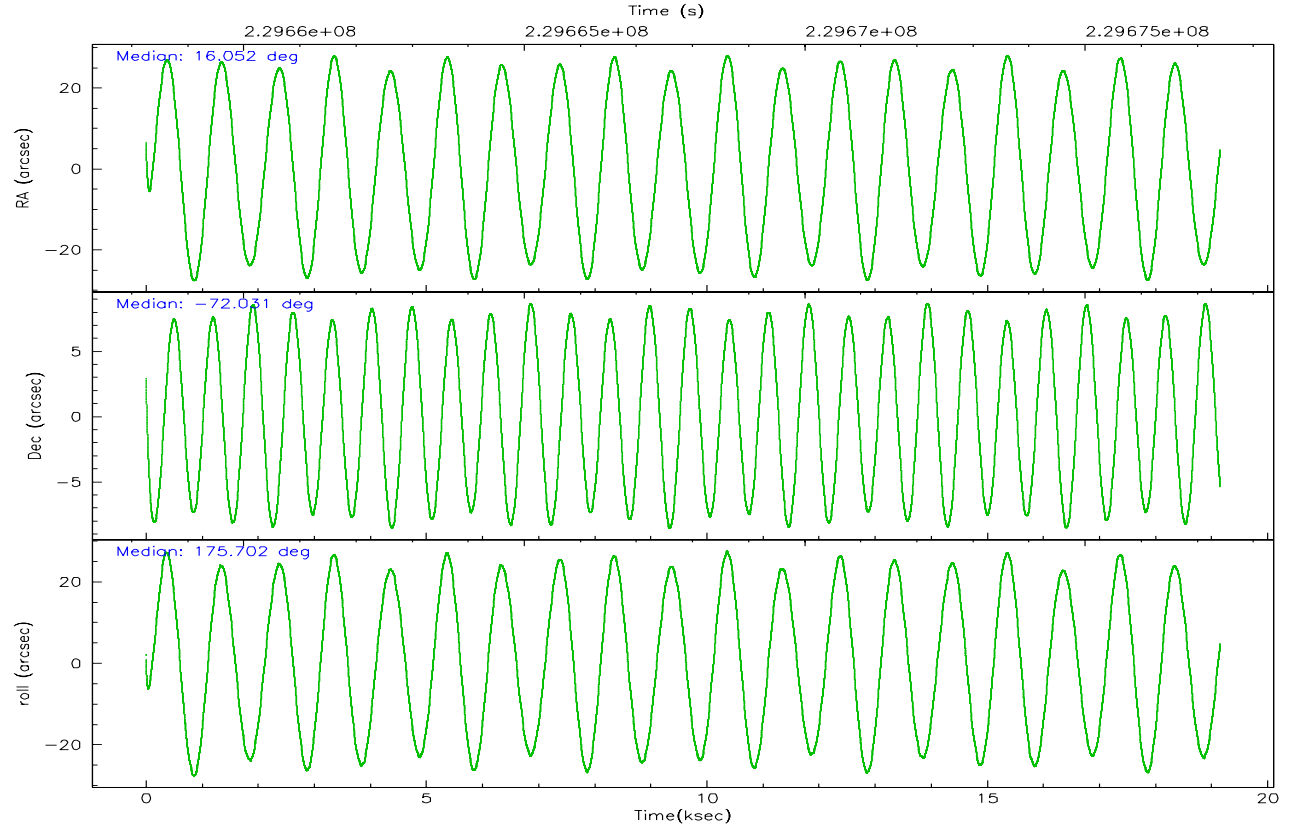
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	7945	4824	5228	40313	9929	3983
	5%	3%	4%	16%	7%	3%
grade 1 events	109	85	63	750	106	82
	0%	0%	0%	0%	0%	0%
grade 2 events	2959	22706	2668	51546	7878	2437
	2%	16%	2%	21%	5%	2%
grade 3 events	1337	2067	1346	18326	3593	1364
	0%	1%	1%	7%	2%	1%
grade 4 events	1261	2047	1280	18178	3392	1257
	0%	1%	1%	7%	2%	1%
grade 5 events	3844	7771	3892	10822	5792	4360
	2%	5%	3%	4%	4%	3%
grade 6 events	1924	38502	2372	51207	8993	2316
	1%	27%	2%	21%	6%	2%
grade 7 events	116622	60071	99546	51387	101715	94733
	85%	43%	85%	21%	71%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	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	16.130218	16.05132971398951	Alternating exposures requested	N	N
Pointing Dec	-72.019173	-72.031352917796	Primary exposure time	0.000000	3.2
Pointing Roll	175.632596	175.7141841330566			
Window start time	228700864.184000	228700864.184000			
Window stop time	231206464.184000	231206464.184000			
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	229658407.184000	229657302.34473			
Observation start date	2005-04-12T01:59:03	2005-04-12T01:41:42			
Observation end time	229677407.184000	229678824.27071			
Observation end date	2005-04-12T07:15:43	2005-04-12T07:40:24			
Read mode	TIMED	TIMED			

## 2.3 Aspect





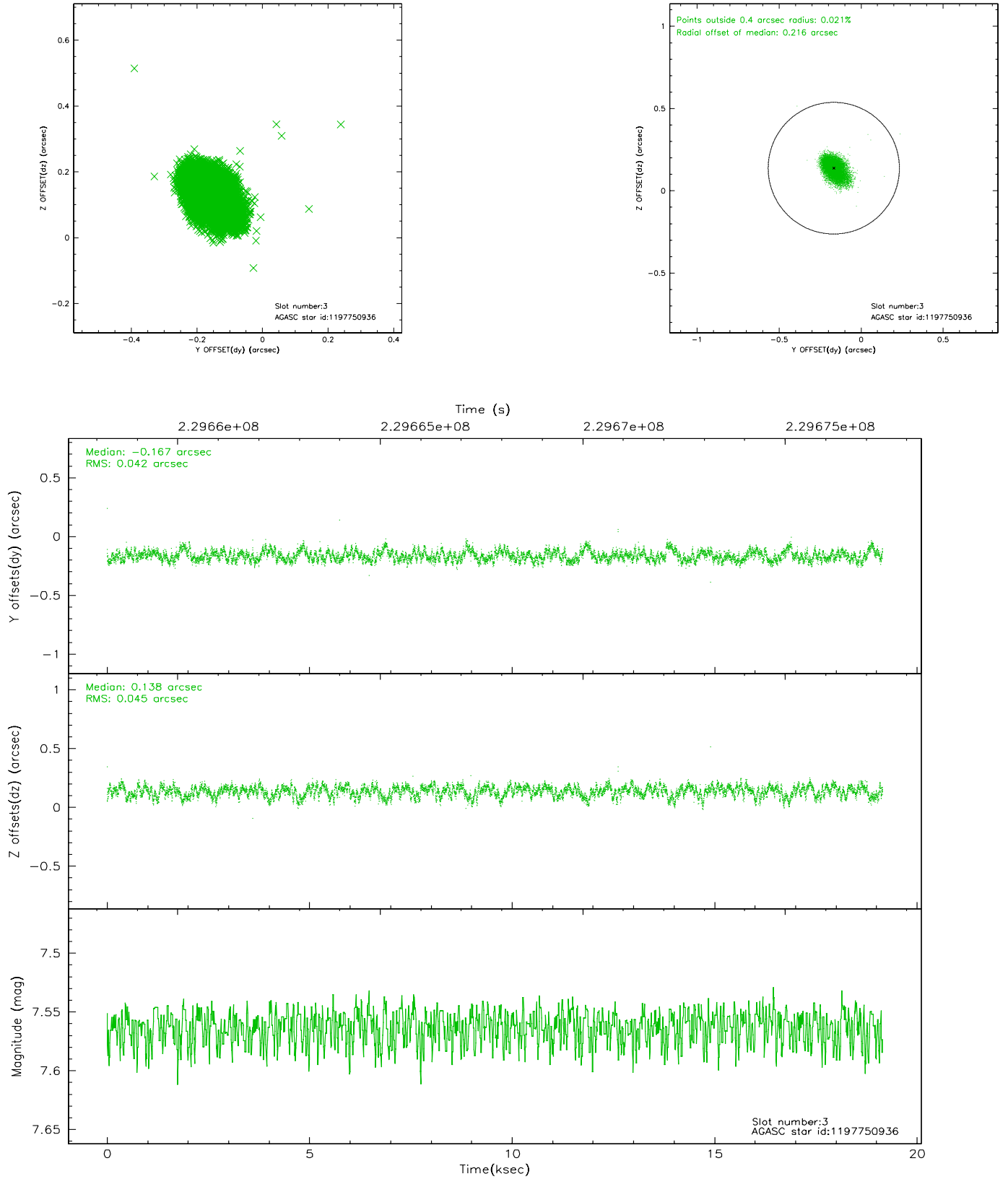
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	4672	-0.055	0.004	0.008	0.013	0.000000	0.000000	-759.02	-1731.64
1	FID	ACIS-S-4	7.21	4671	0.052	0.026	0.008	0.013	0.000000	0.000000	2154.24	176.70
2	FID	ACIS-S-5	7.23	4672	-0.027	-0.021	0.009	0.016	0.000000	0.000000	-1811.60	170.50
3	GUIDE	1197750936	7.56	9344	-0.167	0.138	0.064	0.107	15.387940	-71.549550	971.98	-1615.36
4	GUIDE	1197884712	8.30	9336	0.028	-0.048	0.063	0.100	16.087398	-72.252690	-16.99	841.85
5	GUIDE	1197885104	9.36	9337	0.142	0.024	0.072	0.118	17.845067	-72.189368	-1930.78	494.24
6	GUIDE	1197885328	7.25	9344	-0.001	0.084	0.056	0.091	16.283090	-71.733943	-94.06	-1036.71
7	GUIDE	1198283128	7.78	9342	-0.006	-0.195	0.051	0.080	17.272580	-72.642428	-1395.31	2155.04

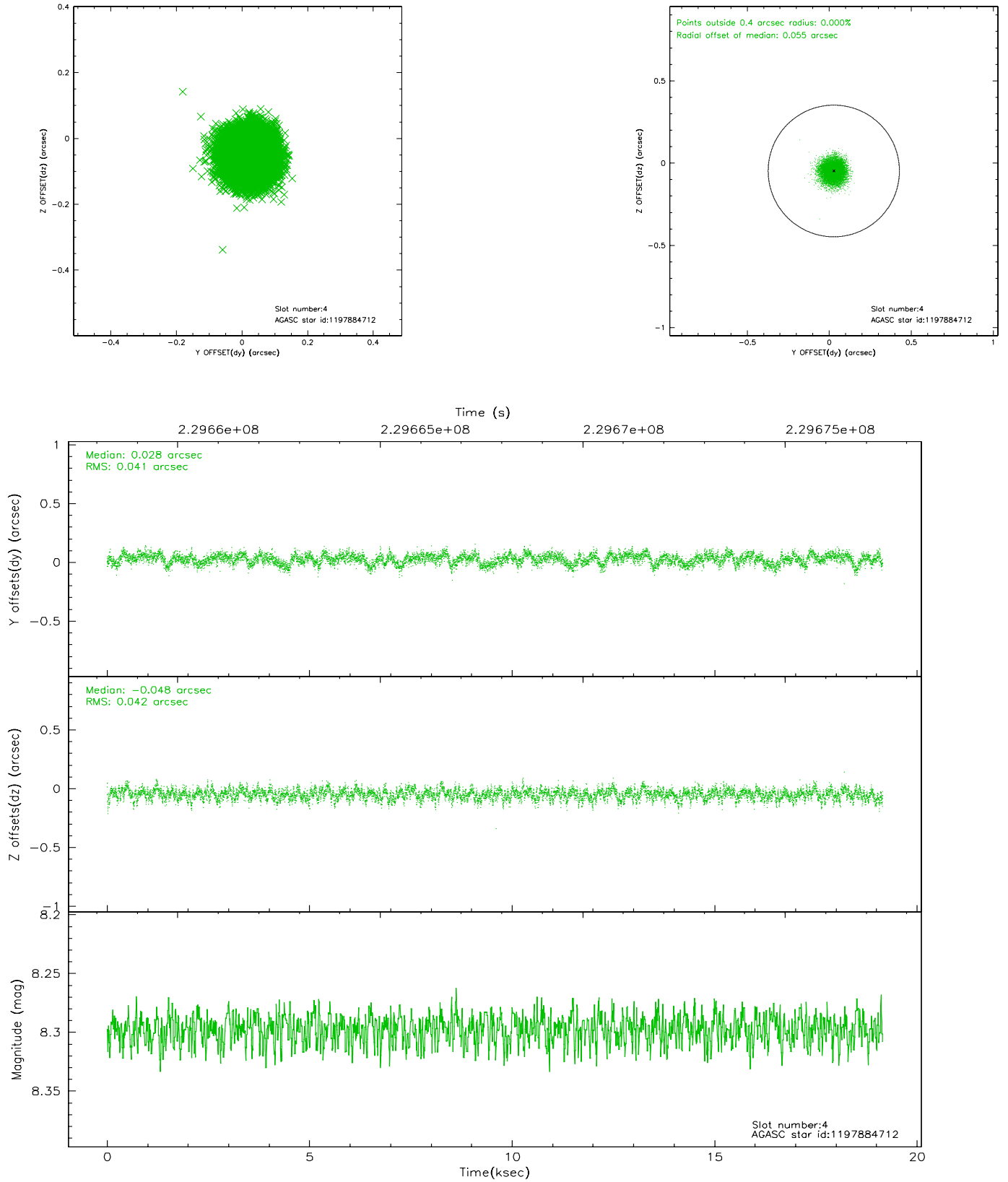


## 2.4 Star Slots

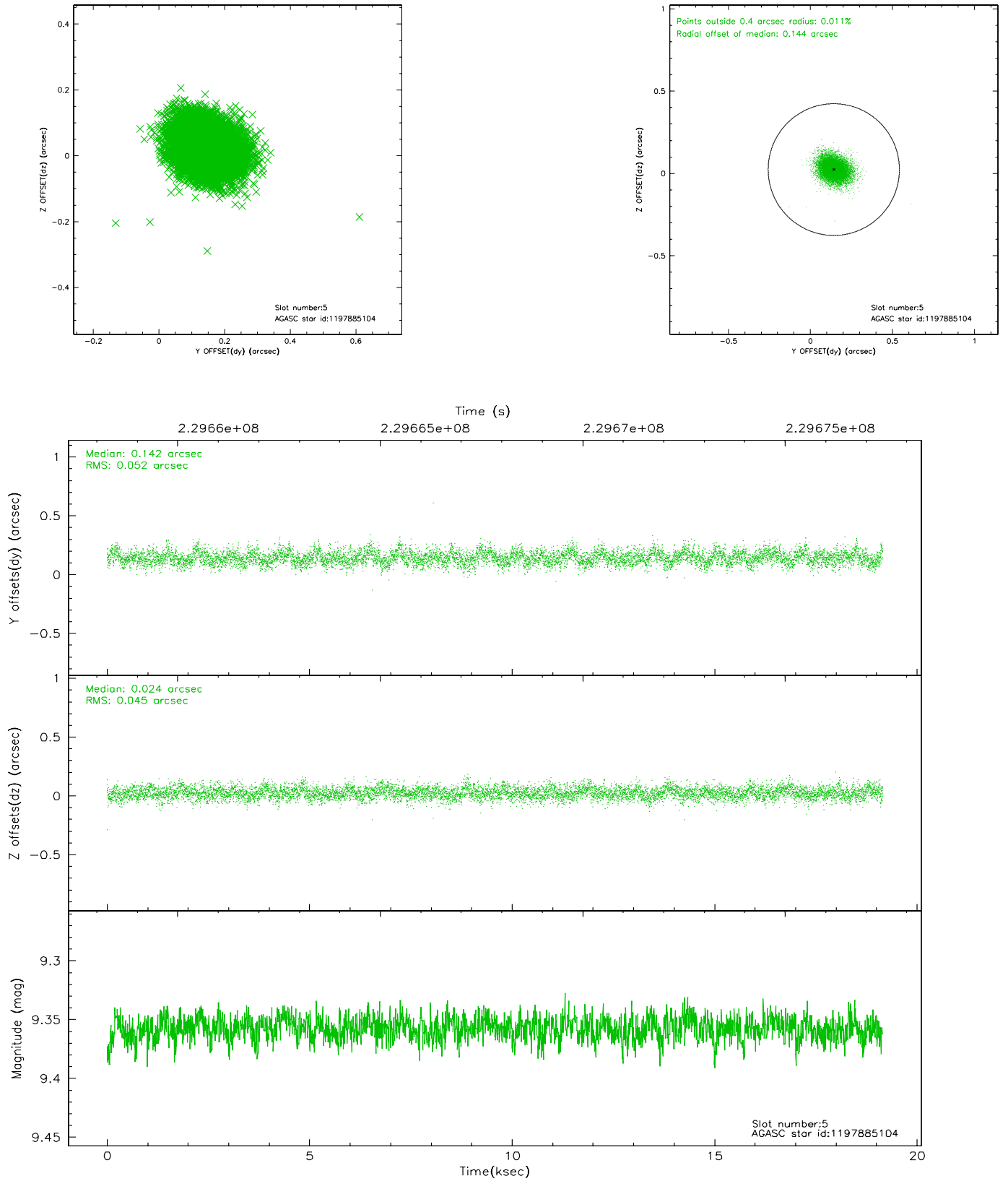
### 2.4.1 Slot 3



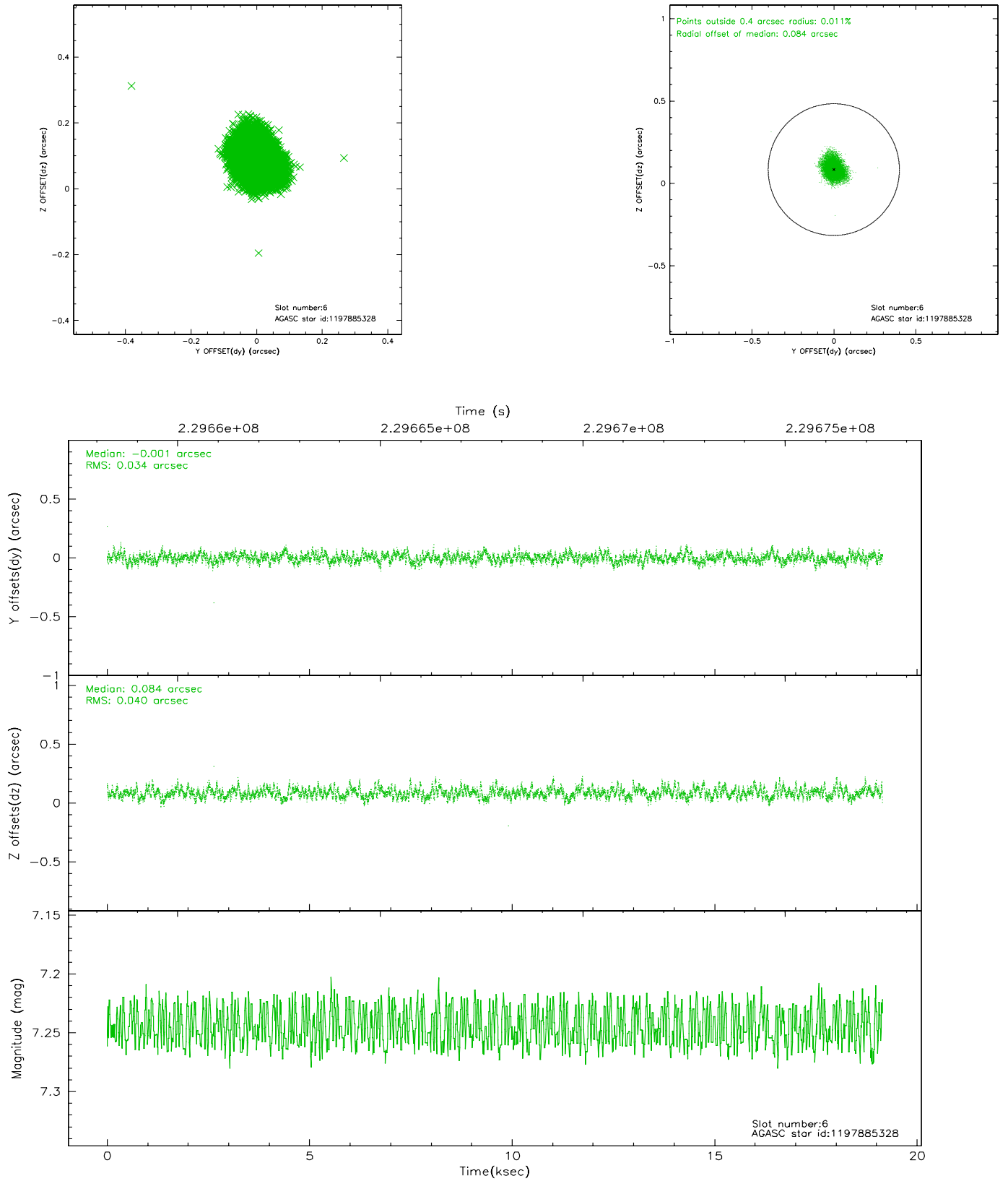
## 2.4.2 Slot 4



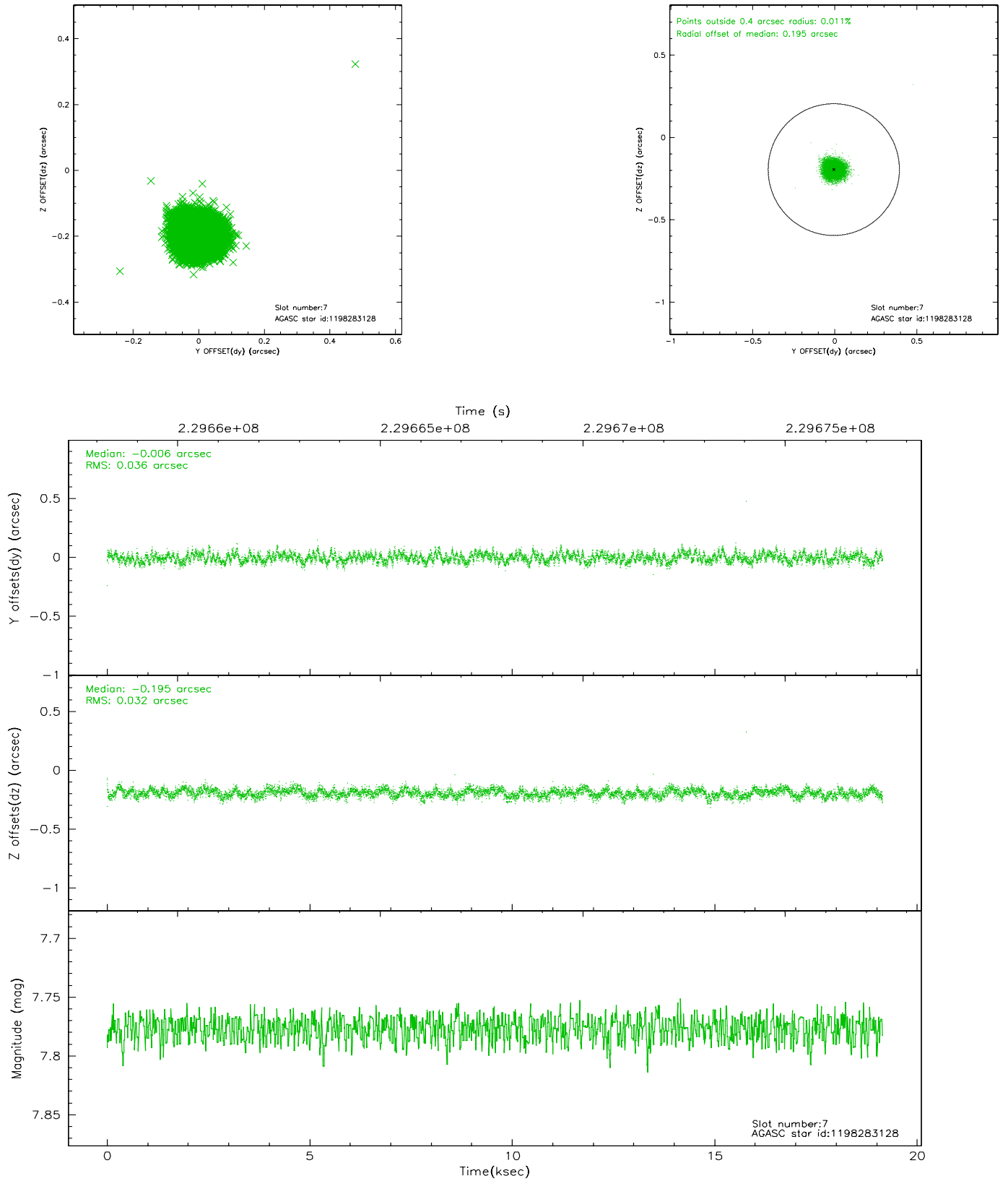
### 2.4.3 Slot 5



## 2.4.4 Slot 6

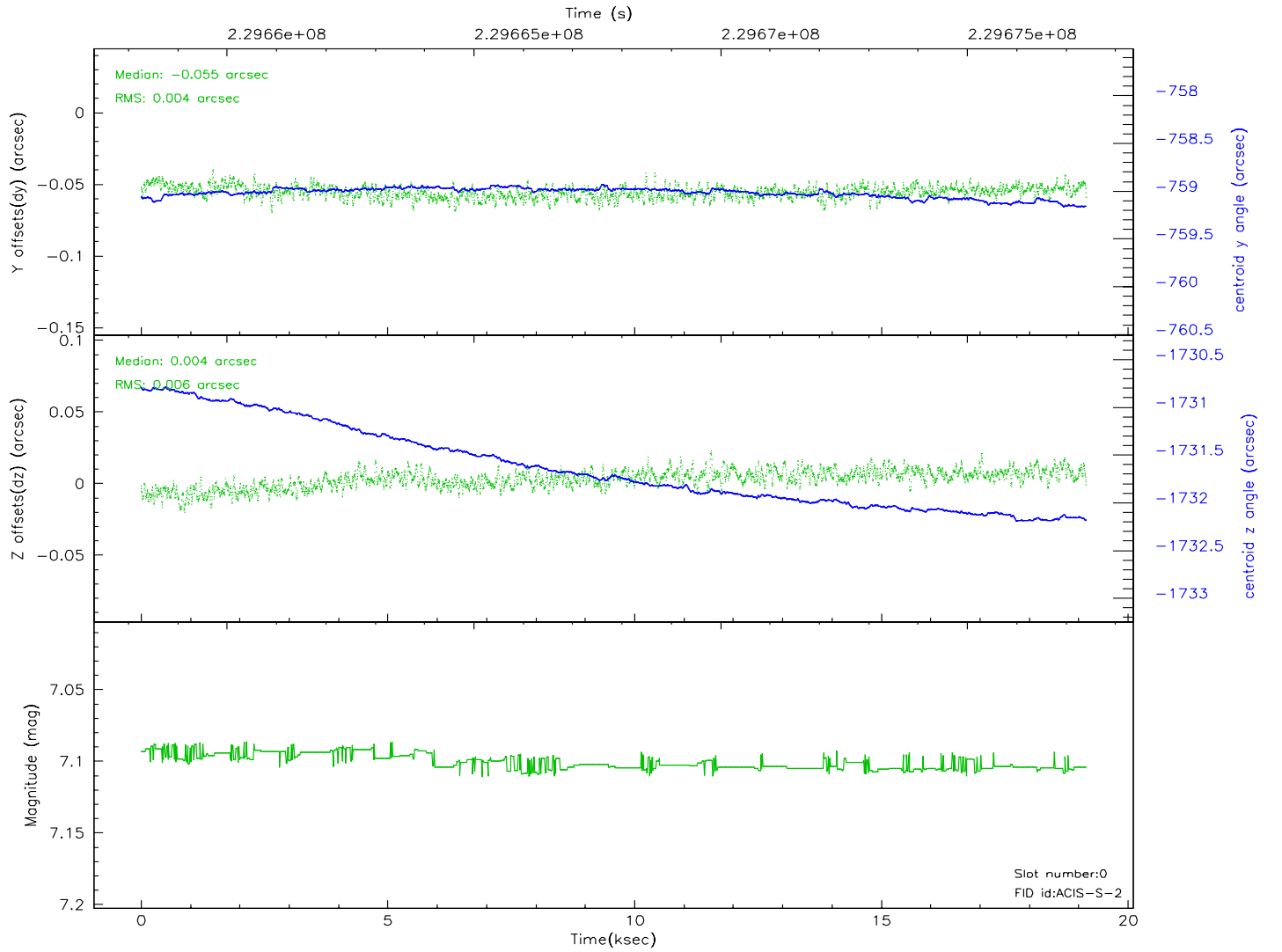
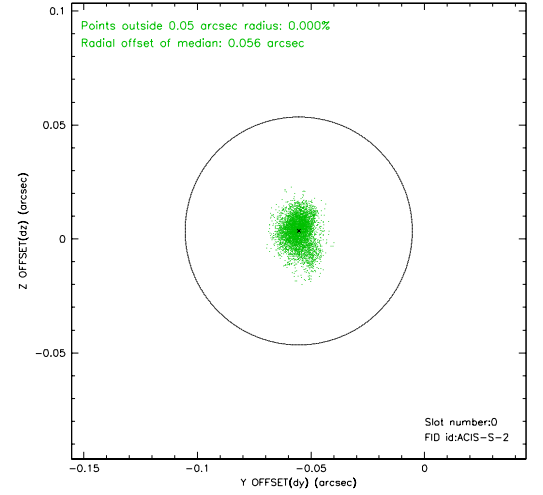
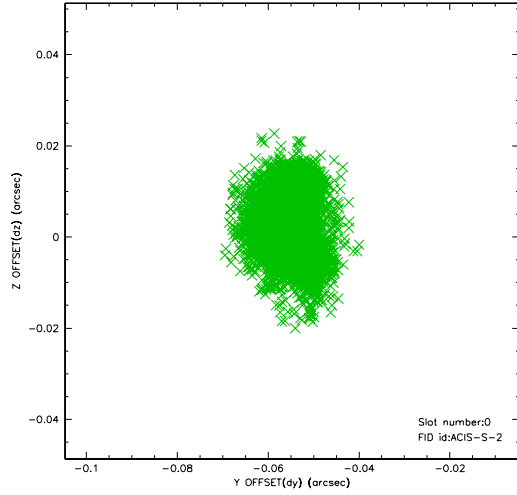


## 2.4.5 Slot 7

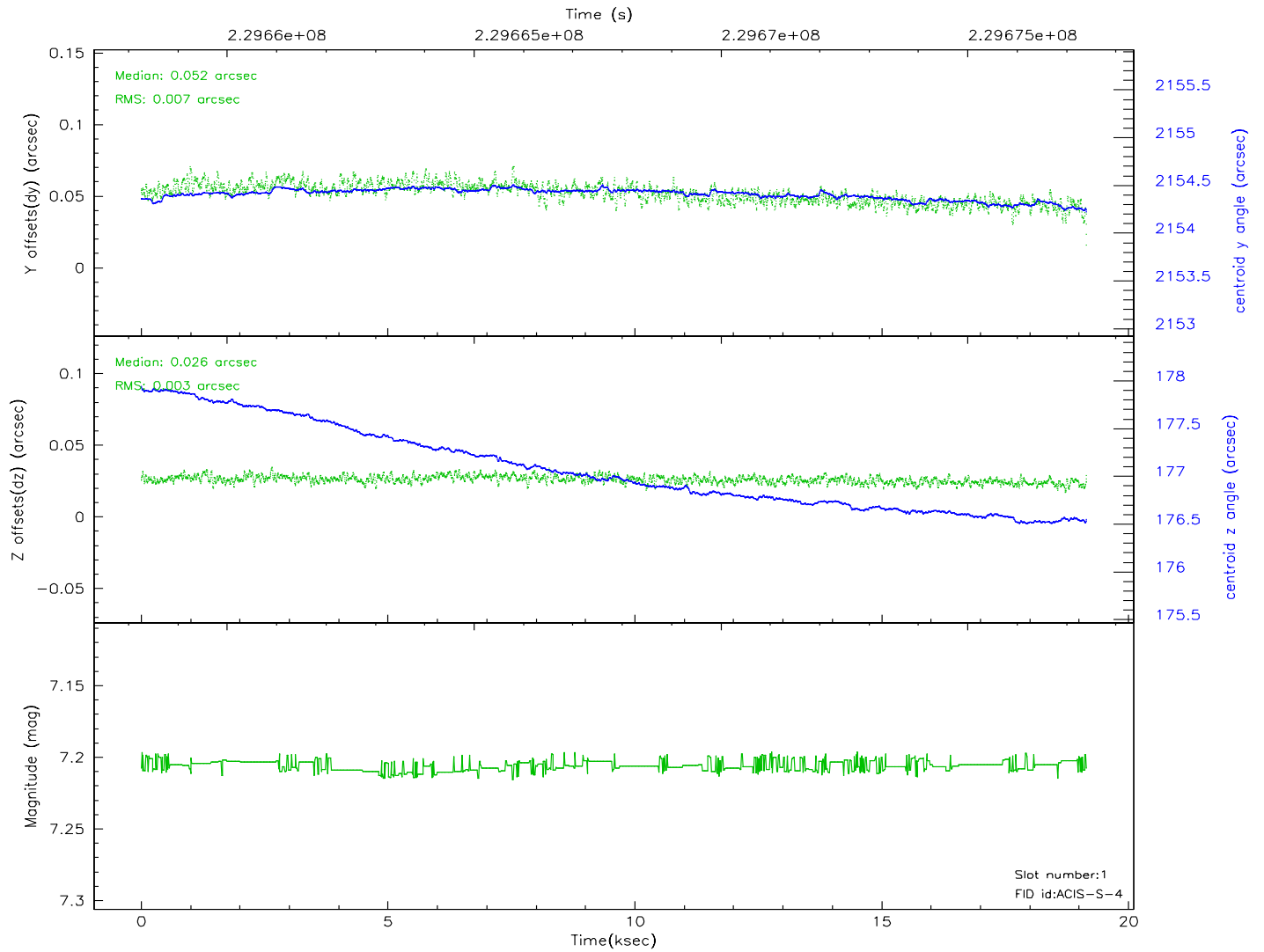
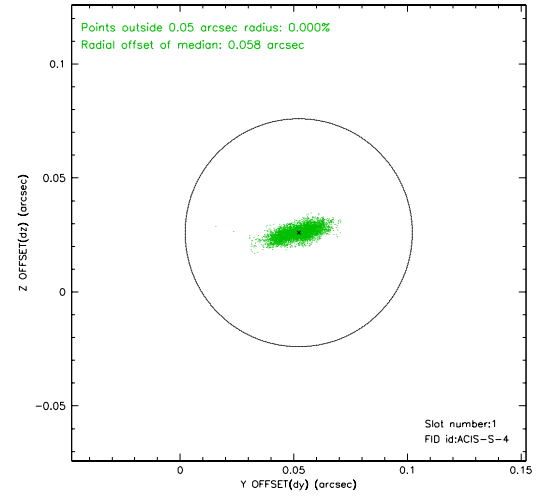
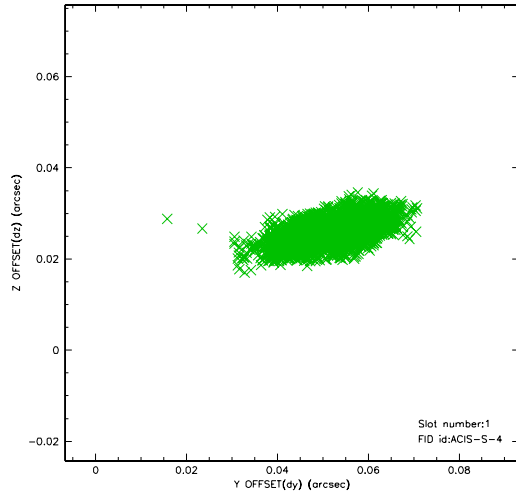


## 2.5 FID Slots

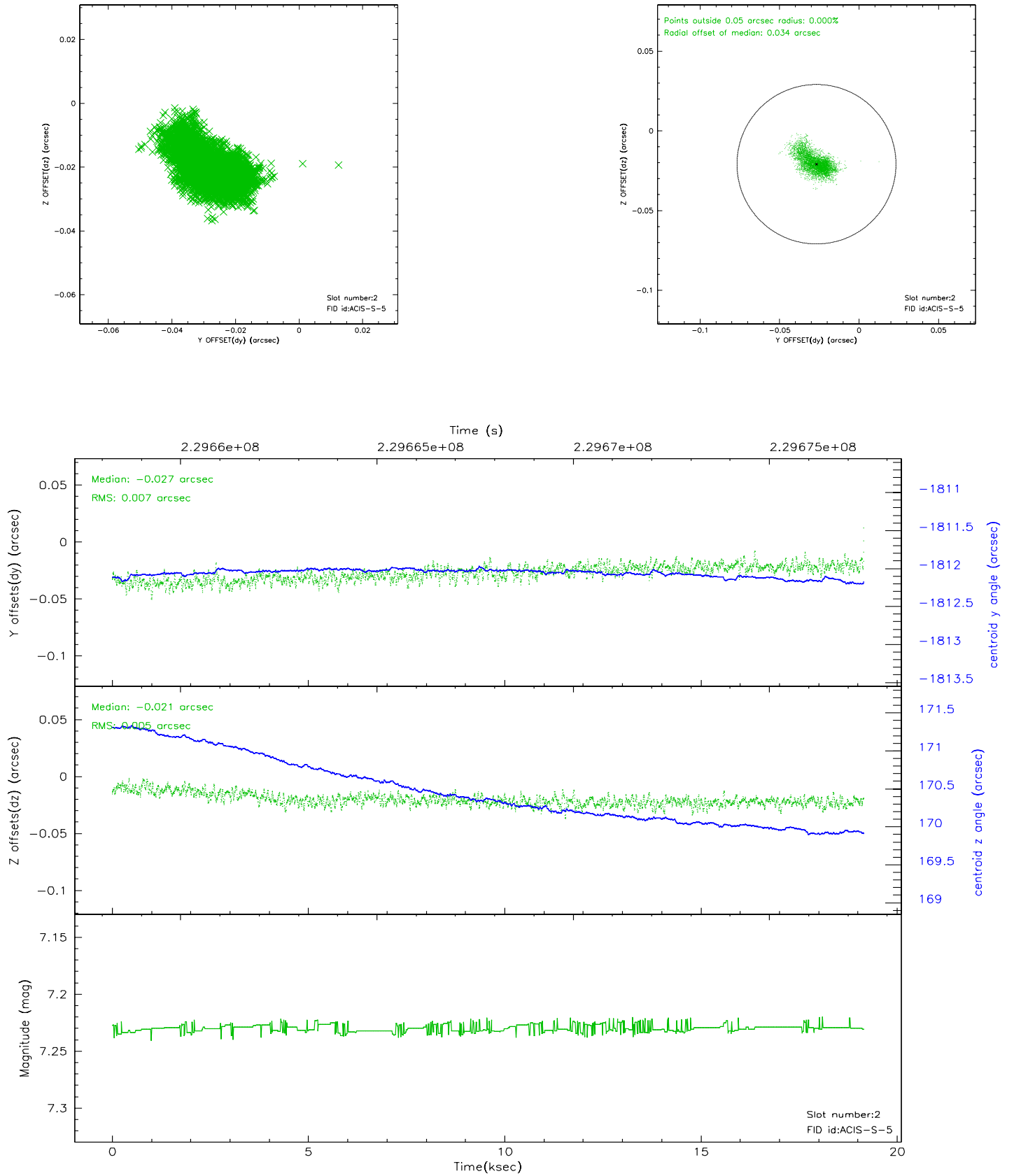
### 2.5.1 Slot 0



## 2.5.2 Slot 1

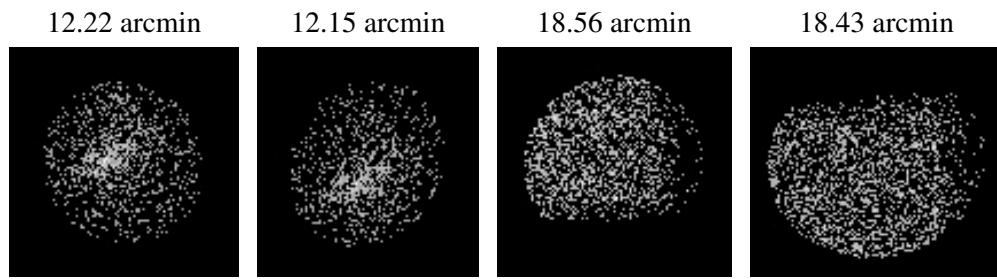


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.03.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.14559

### A.2 Comments

Window constraint satisfied.