

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 1575 - L2 Version 001  
Chandra X-Ray Center

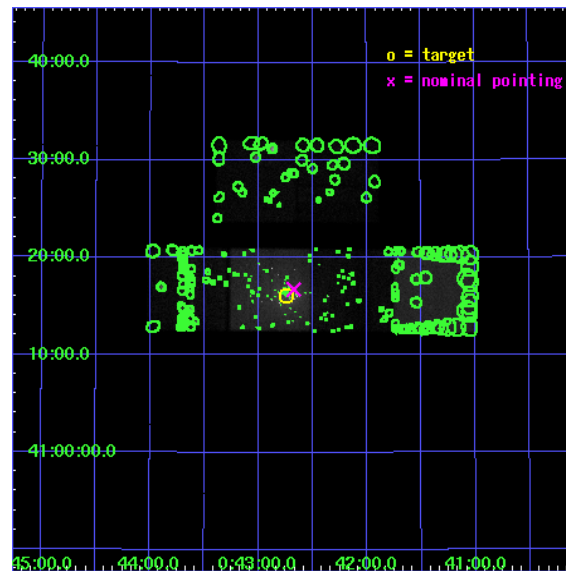
L2 Processing Date : Jan 5 2007

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# 1 Front

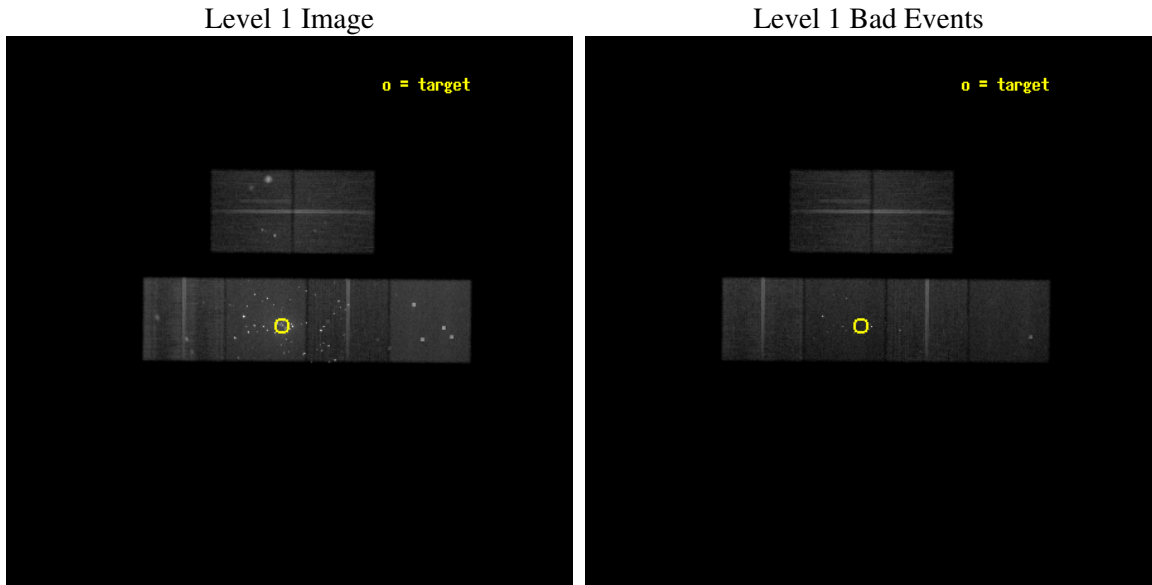
seq_num	600132
obs_id	1575
title	M31 NUCLEAR REGION
observer	Dr Stephen Murray
object	M31 NUCLEUS
dtcycle	0
cycle	P
ra_targ	10.685
dec_targ	41.268972
ra_nom	10.668403294059
dec_nom	41.278943379023
roll_nom	180.42070157758
revision	2
ontime	38147.200035527
livetime	37664.157219191
ontime2	38147.200035527
ontime3	38147.200035527
ontime5	38147.200035527
ontime6	38143.959075287
ontime7	38147.200035527
ontime8	38147.200035527
l2events	577163



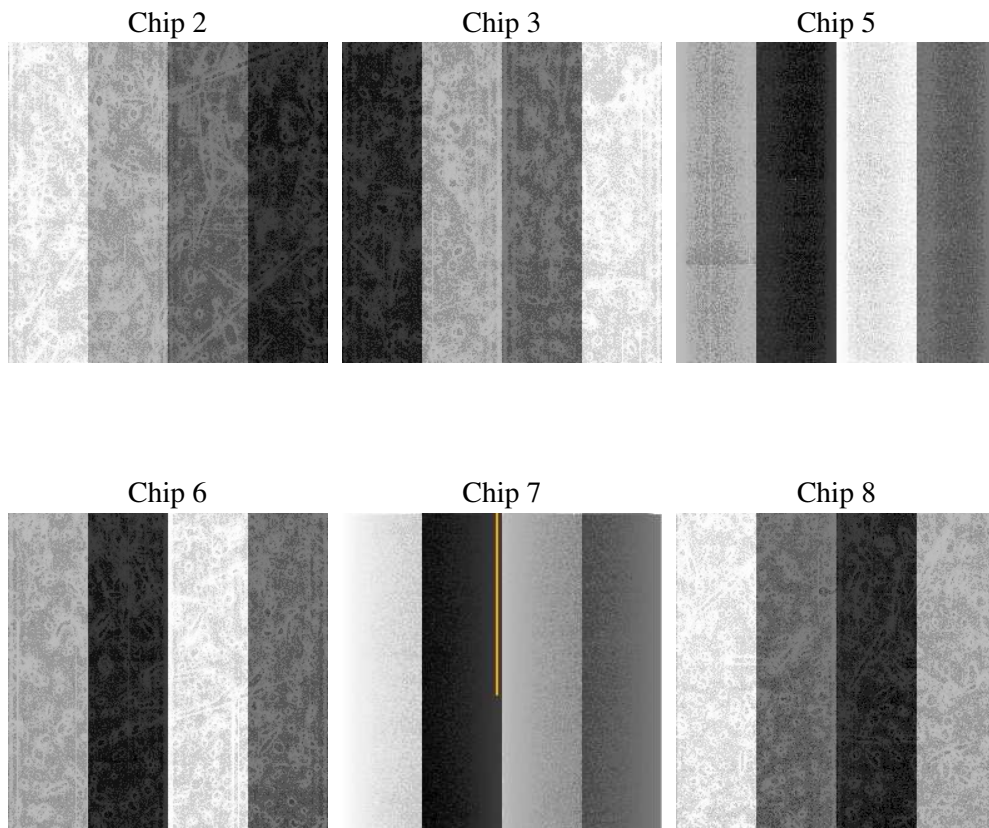
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.9
caldbver	3.2.4
date	2007-01-05T11:44:51
revision	2

sched_exp_time	38000.000000
ontime	39595.350111052
ontime2	39595.350111052
ontime3	39595.350111052
ontime5	39595.350111052
ontime6	39592.109150812
ontime7	39595.350111052
ontime8	39595.350111052
l1events	1991413

### 2.1.4 Events

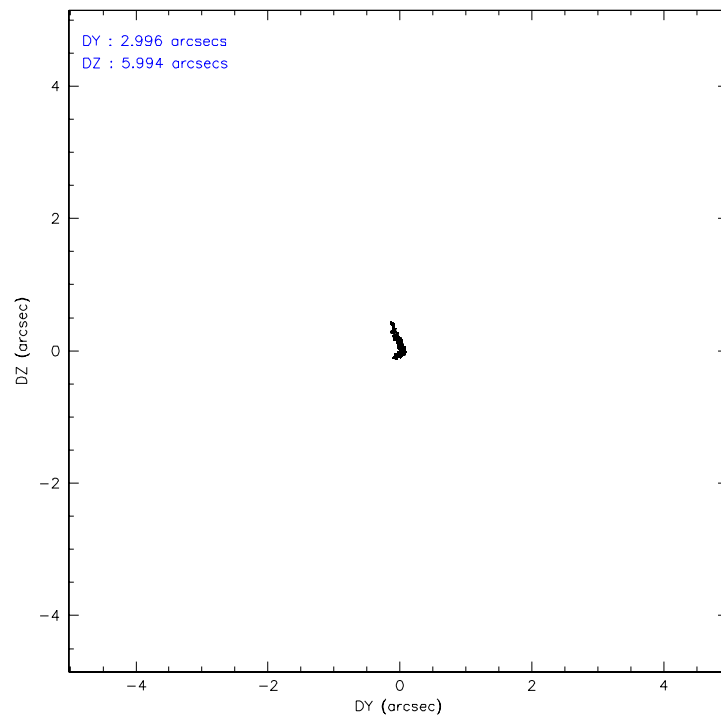
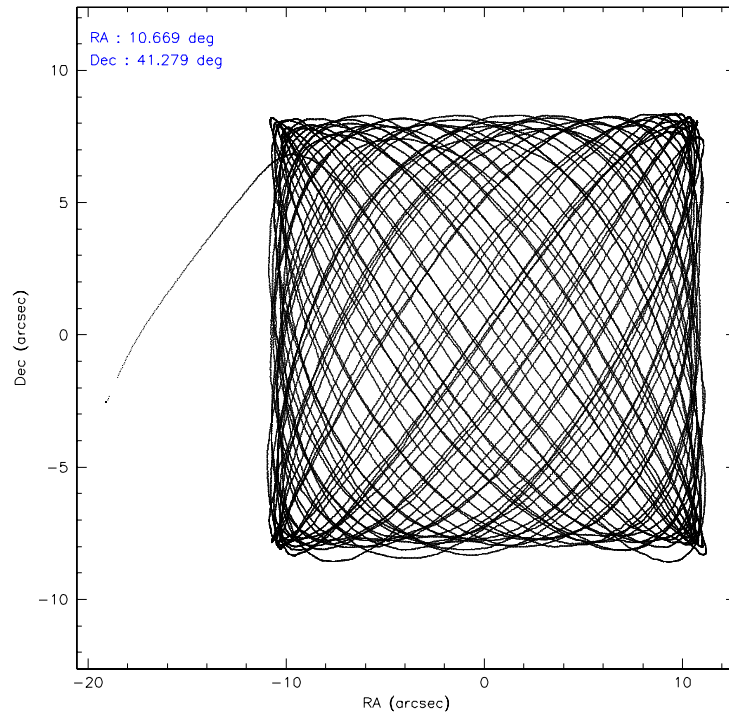
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	253615	255710	366703	284231	477740	353414
rejected events	223266	209067	194212	225336	202259	248479
rejected %	88%	81%	52%	79%	42%	70%

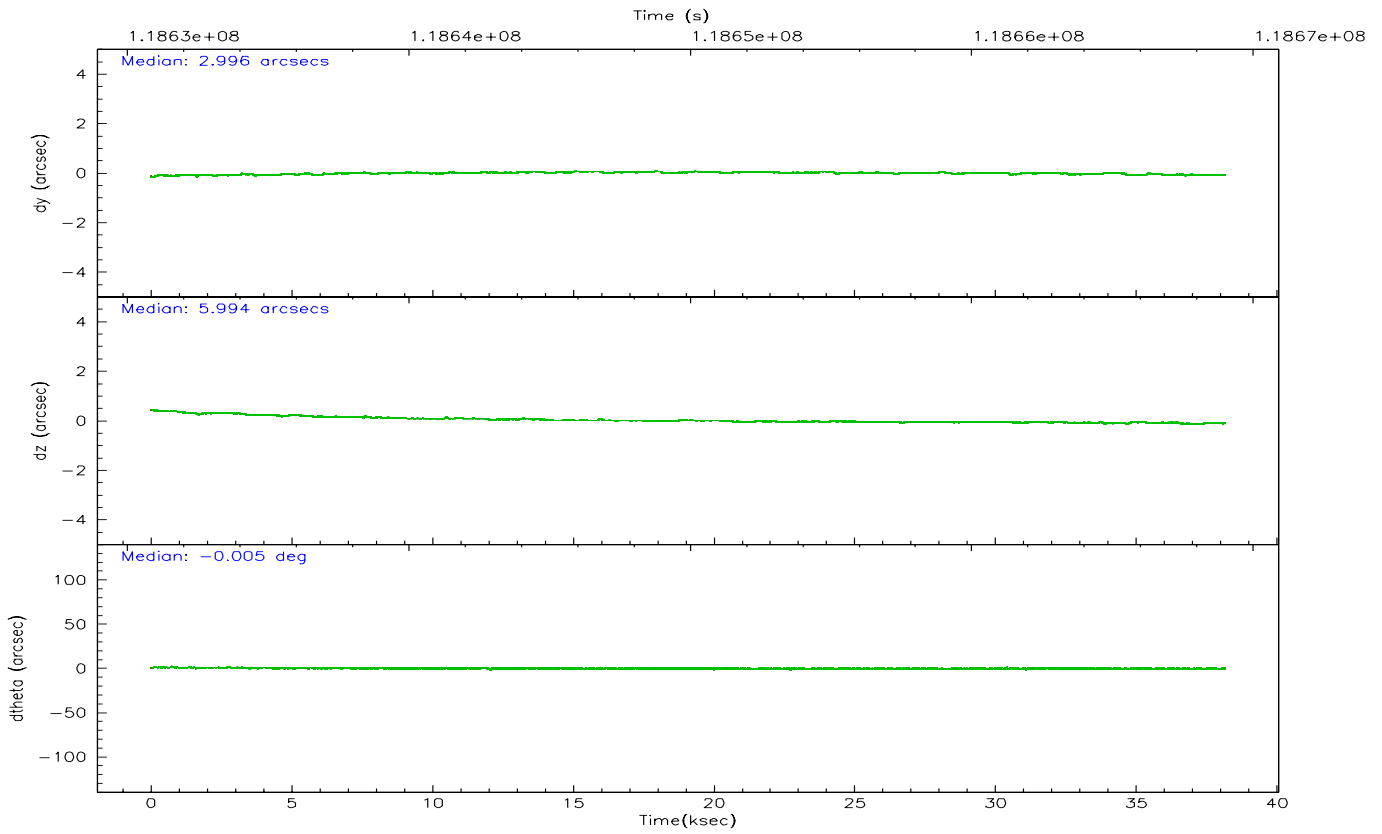
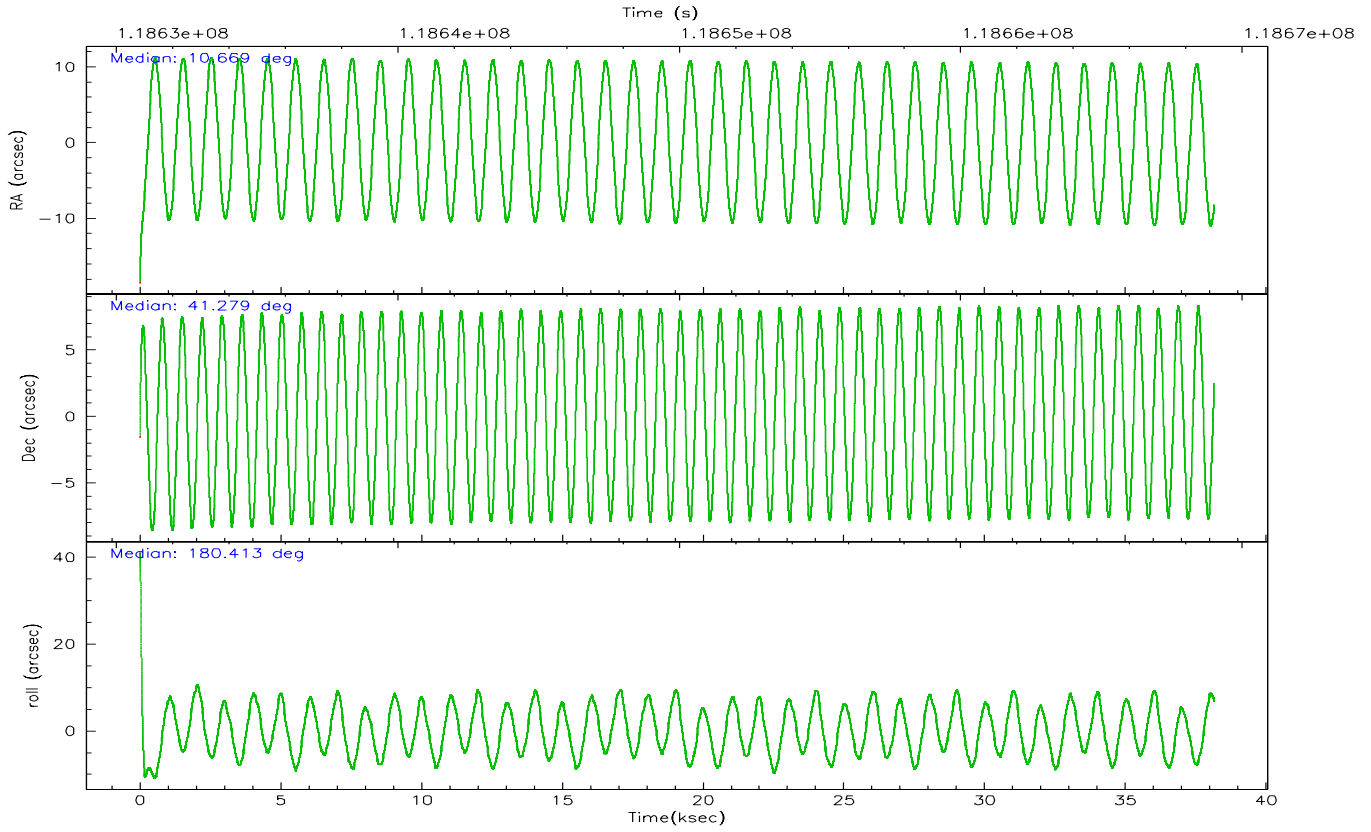
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	13654	27455	36948	36436	55368	37930
	5%	10%	10%	12%	11%	10%
grade 1 events	133	161	1970	416	1162	275
	0%	0%	0%	0%	0%	0%
grade 2 events	7227	8180	48284	9848	73157	19429
	2%	3%	13%	3%	15%	5%
grade 3 events	2559	3198	3981	3679	24306	14192
	1%	1%	1%	1%	5%	4%
grade 4 events	2711	3140	3851	3691	23930	12638
	1%	1%	1%	1%	5%	3%
grade 5 events	8385	9068	16343	10349	24770	13484
	3%	3%	4%	3%	5%	3%
grade 6 events	5338	5849	86157	6670	104213	24973
	2%	2%	23%	2%	21%	7%
grade 7 events	213608	198659	169169	213142	170834	230493
	84%	77%	46%	74%	35%	65%

## 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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	10.699499	10.66840329405922	Subarray requested	NONE	NONE
Pointing Dec	41.293023	41.27894337902281	Alternating exposures requested	N	N
Pointing Roll	180.243541	180.4207015775756	Primary exposure time	0.000000	3.2
Window start time	118281664.184000	118281664.184000			
Window stop time	120787264.184000	120787264.184000			
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	118631004.184000	118629223.296			
Observation start date	2001-10-05T01:02:20	2001-10-05T00:33:43			
Observation end time	118669004.184000	118669138.33509			
Observation end date	2001-10-05T11:35:40	2001-10-05T11:38:58			
Read mode	TIMED	TIMED			

## 2.3 Aspect



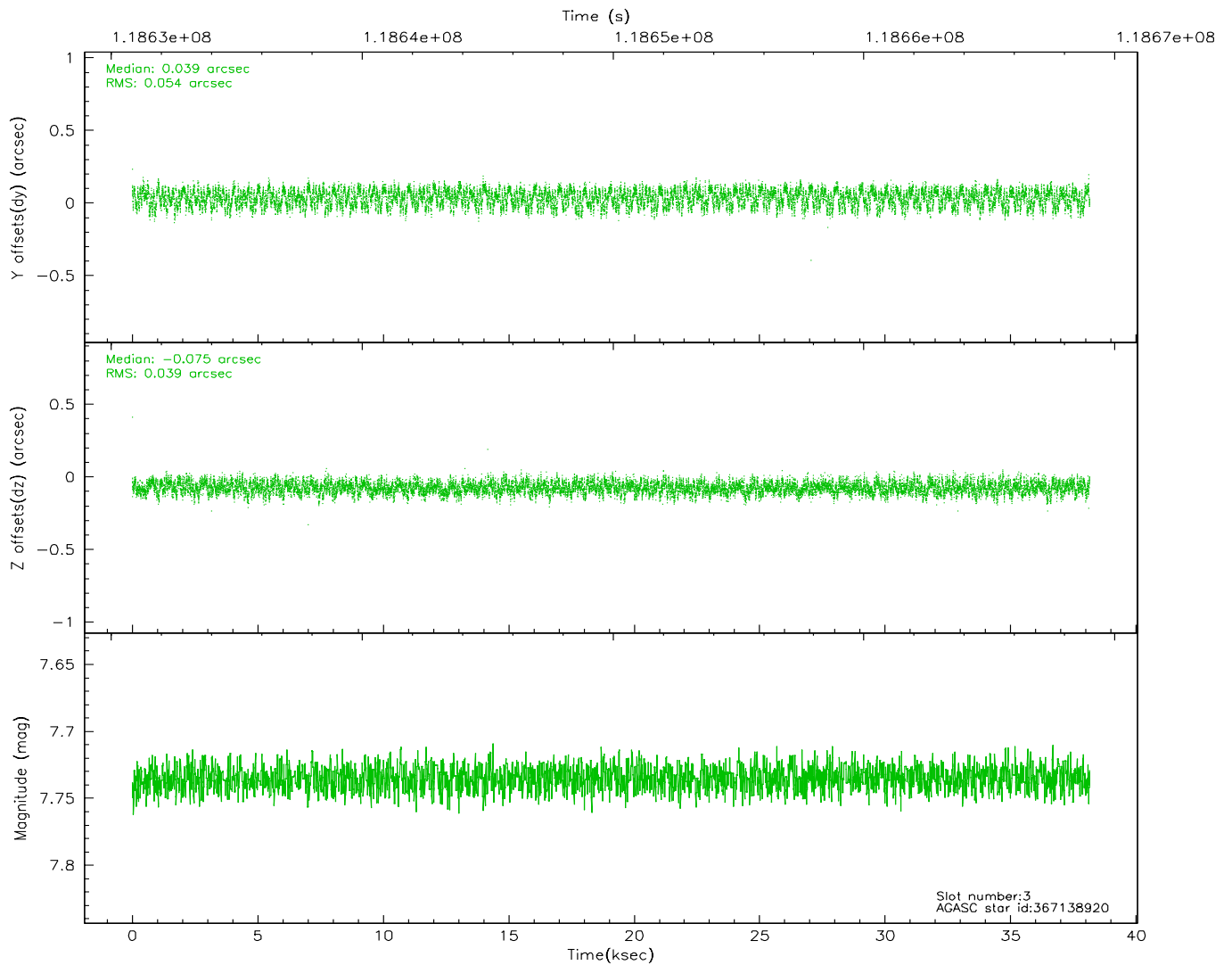
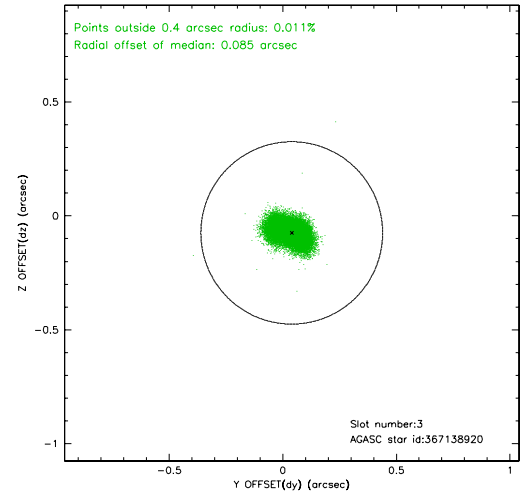
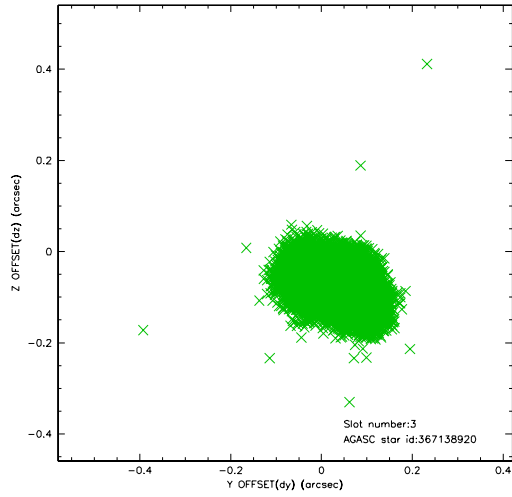


### Slot Statistics

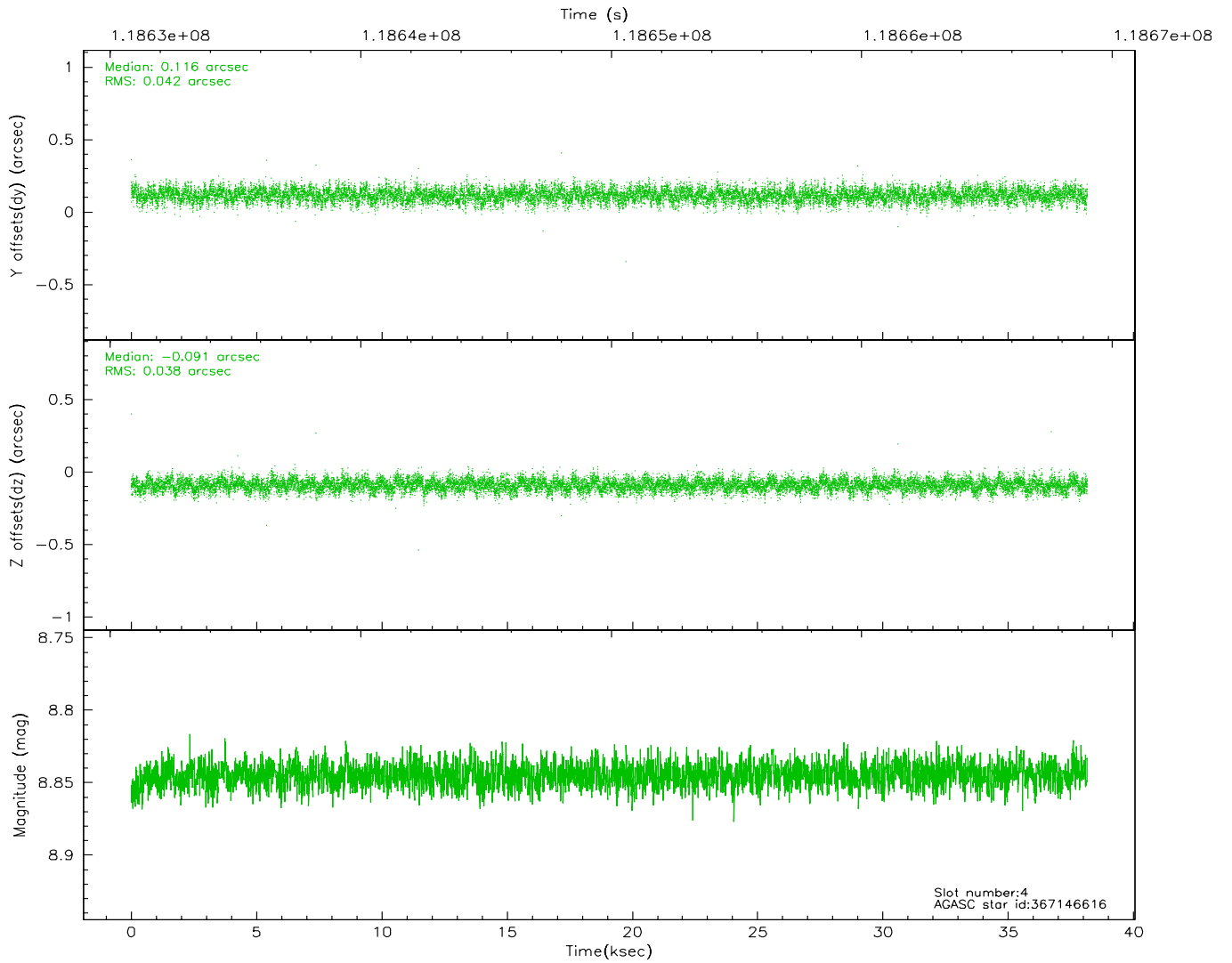
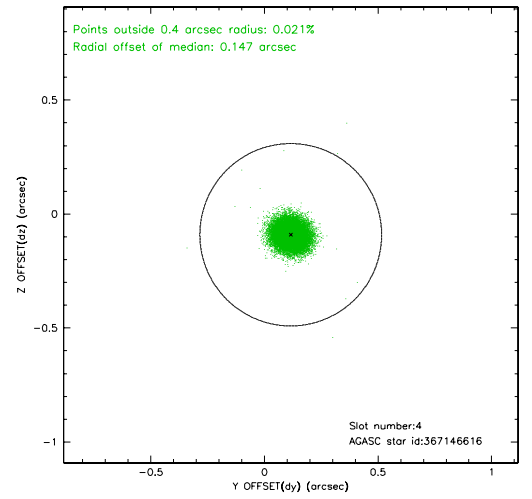
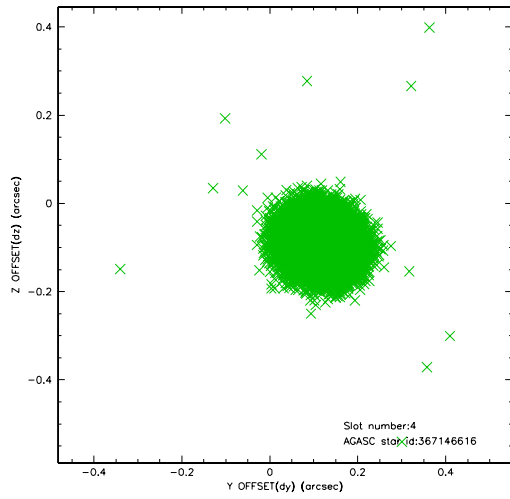
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	9307	-0.018	0.032	0.007	0.011	0.000000	0.000000	-755.61	-1727.16
1	FID	ACIS-S-4	7.20	9307	-0.064	0.000	0.006	0.013	0.000000	0.000000	2157.57	181.33
2	FID	ACIS-S-5	7.24	9307	0.051	-0.023	0.007	0.011	0.000000	0.000000	-1808.39	174.92
3	GUIDE	367138920	7.73	18612	0.039	-0.075	0.072	0.112	11.513485	40.808909	-2209.74	1741.91
4	GUIDE	367146616	8.84	18604	0.116	-0.091	0.060	0.097	11.418645	41.190163	-1945.48	370.52
5	GUIDE	367671800	9.39	18603	-0.131	0.104	0.103	0.161	10.554735	41.964935	378.56	-2420.42
6	GUIDE	367658664	9.59	18599	0.006	0.004	0.077	0.127	10.374070	41.369746	879.30	-281.35
7	GUIDE	367665472	9.48	18596	-0.029	0.055	0.077	0.127	10.241611	41.730843	1224.92	-1584.19

## 2.4 Star Slots

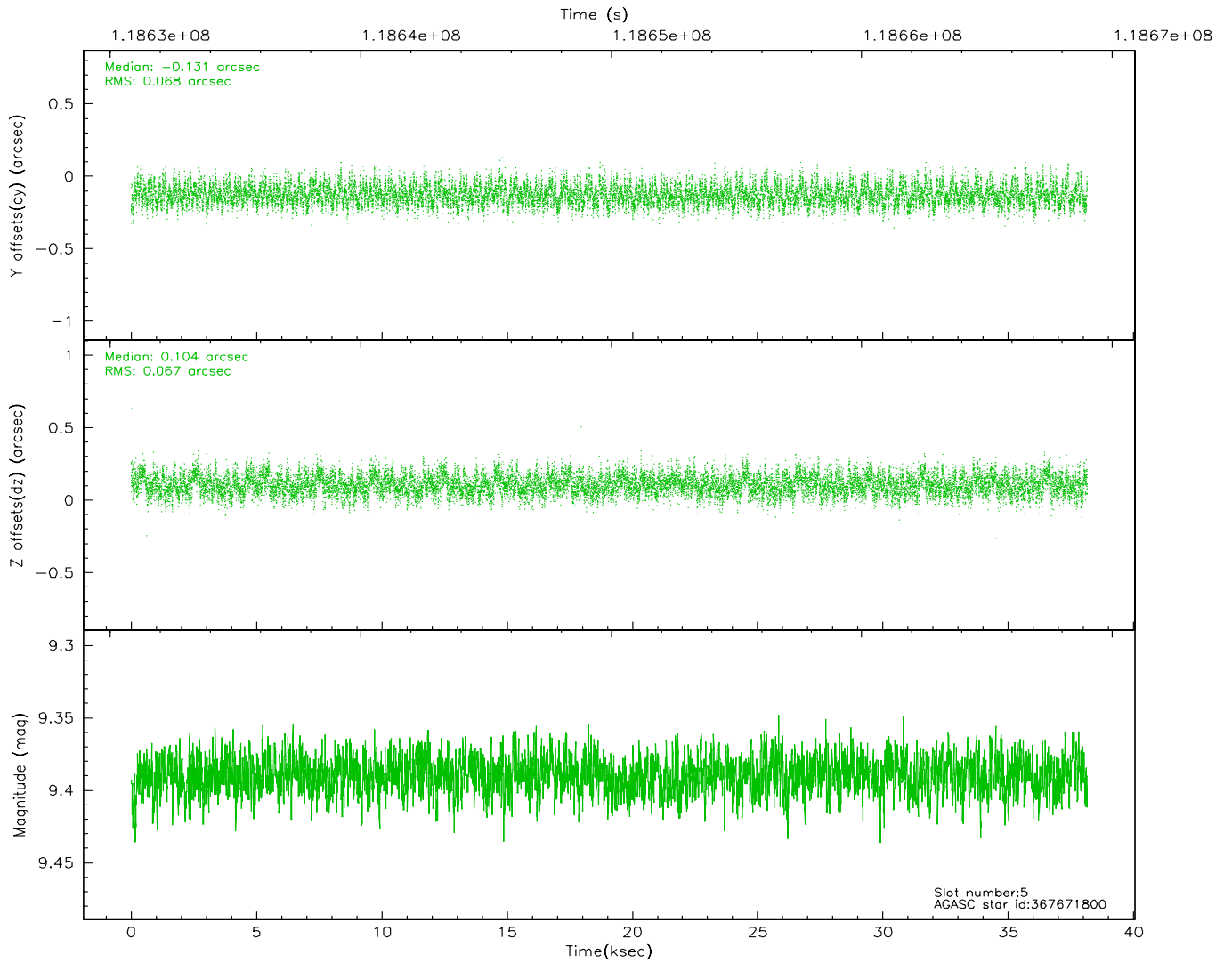
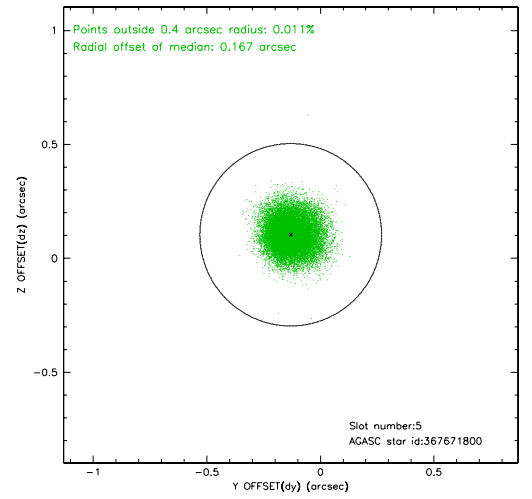
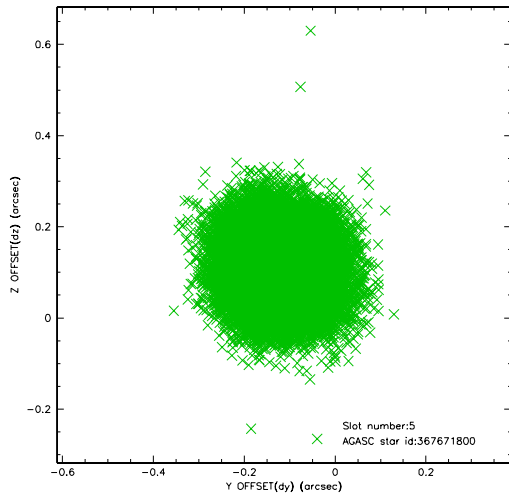
### 2.4.1 Slot 3



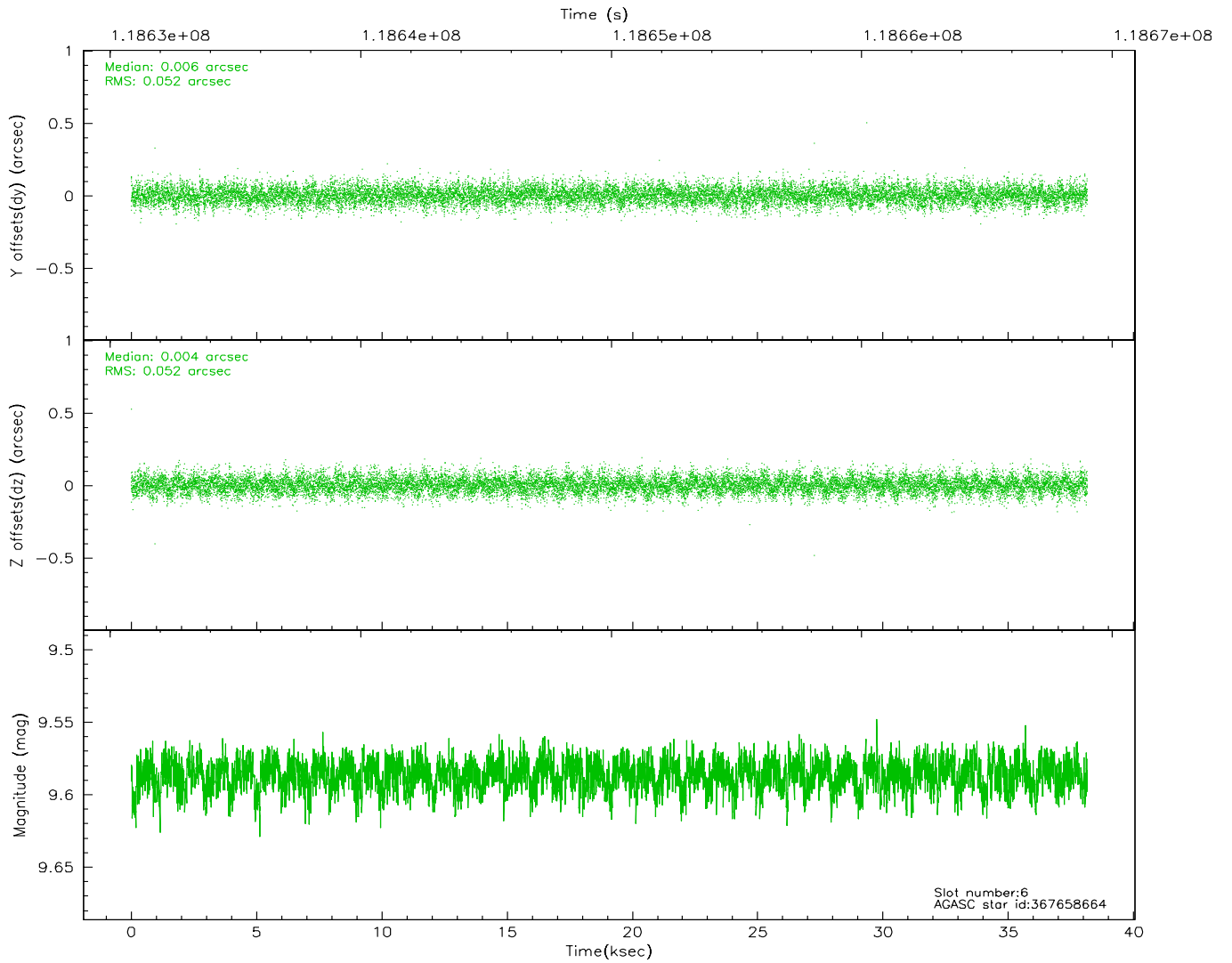
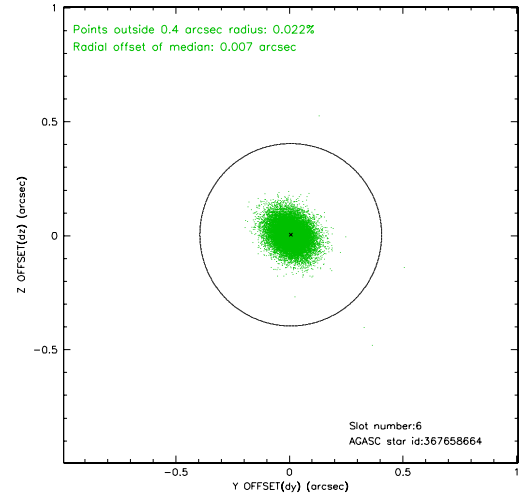
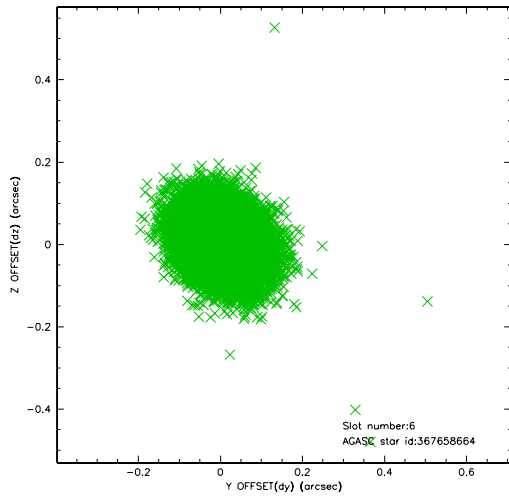
### 2.4.2 Slot 4



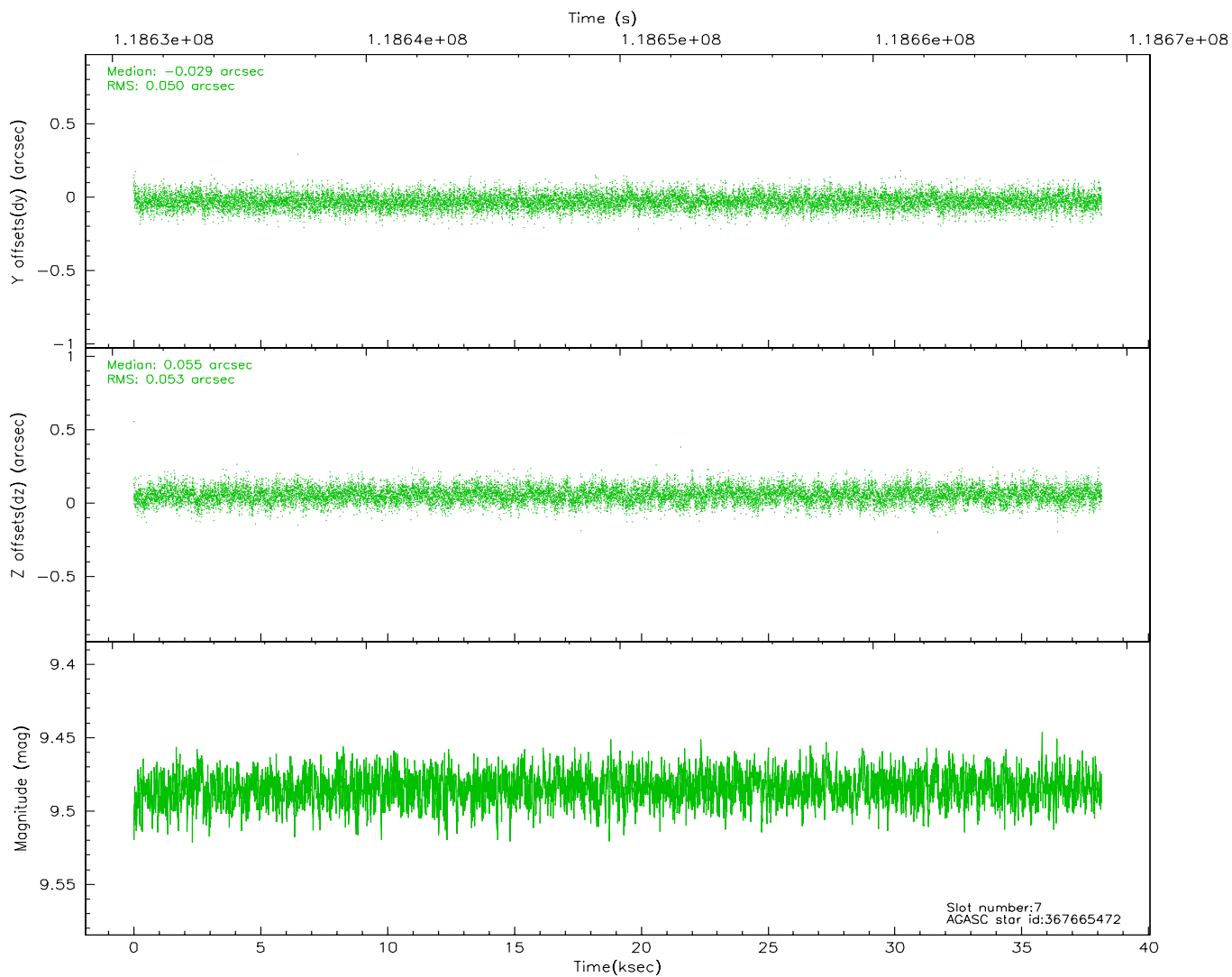
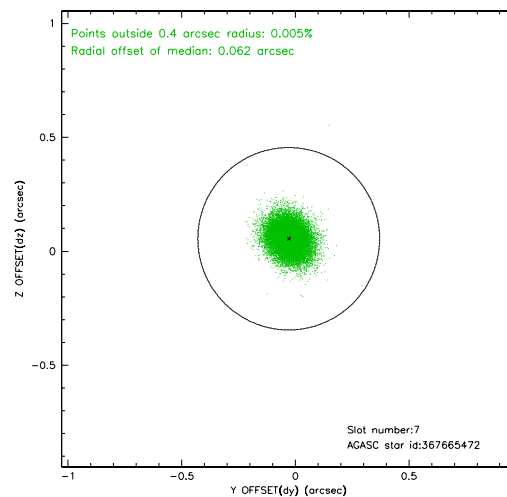
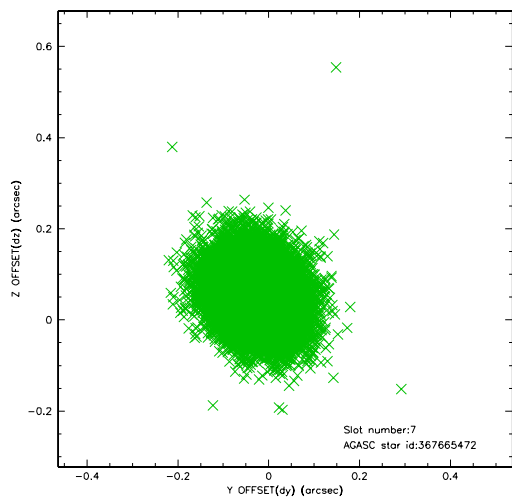
### 2.4.3 Slot 5



### 2.4.4 Slot 6

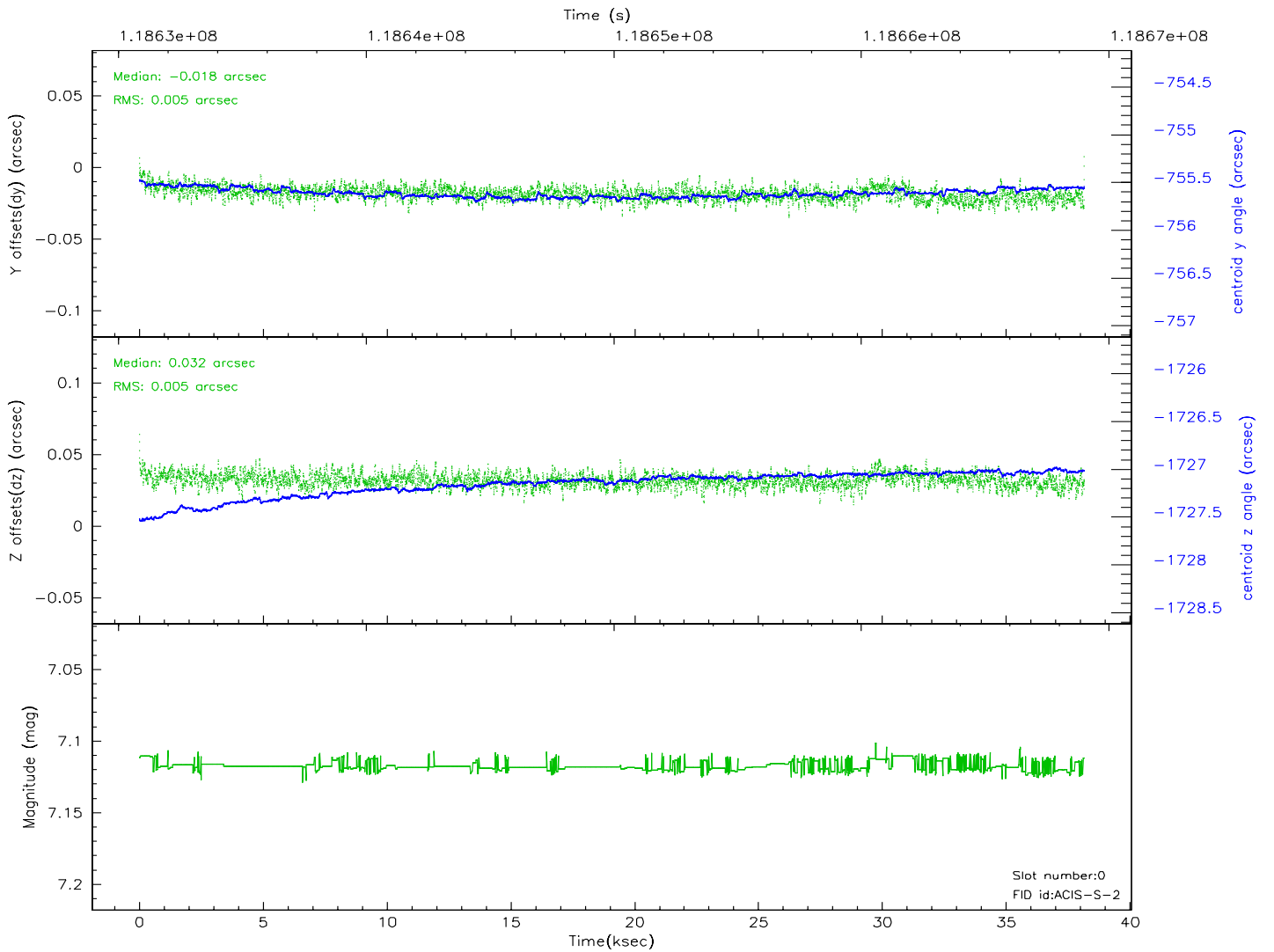
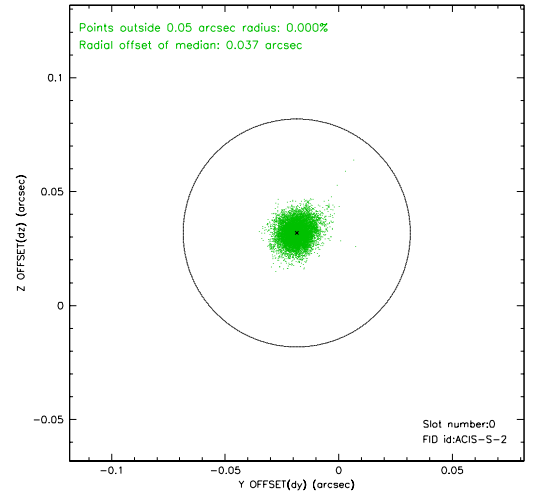
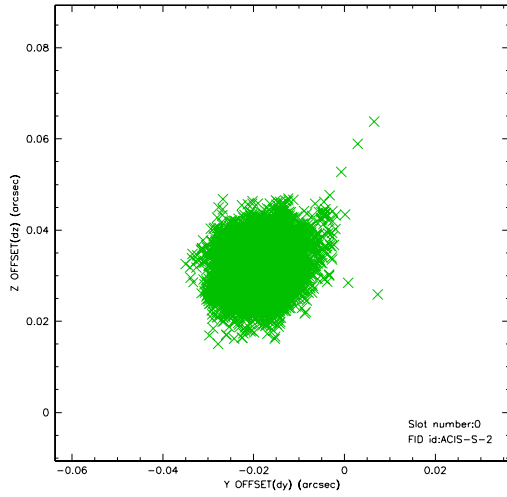


## 2.4.5 Slot 7

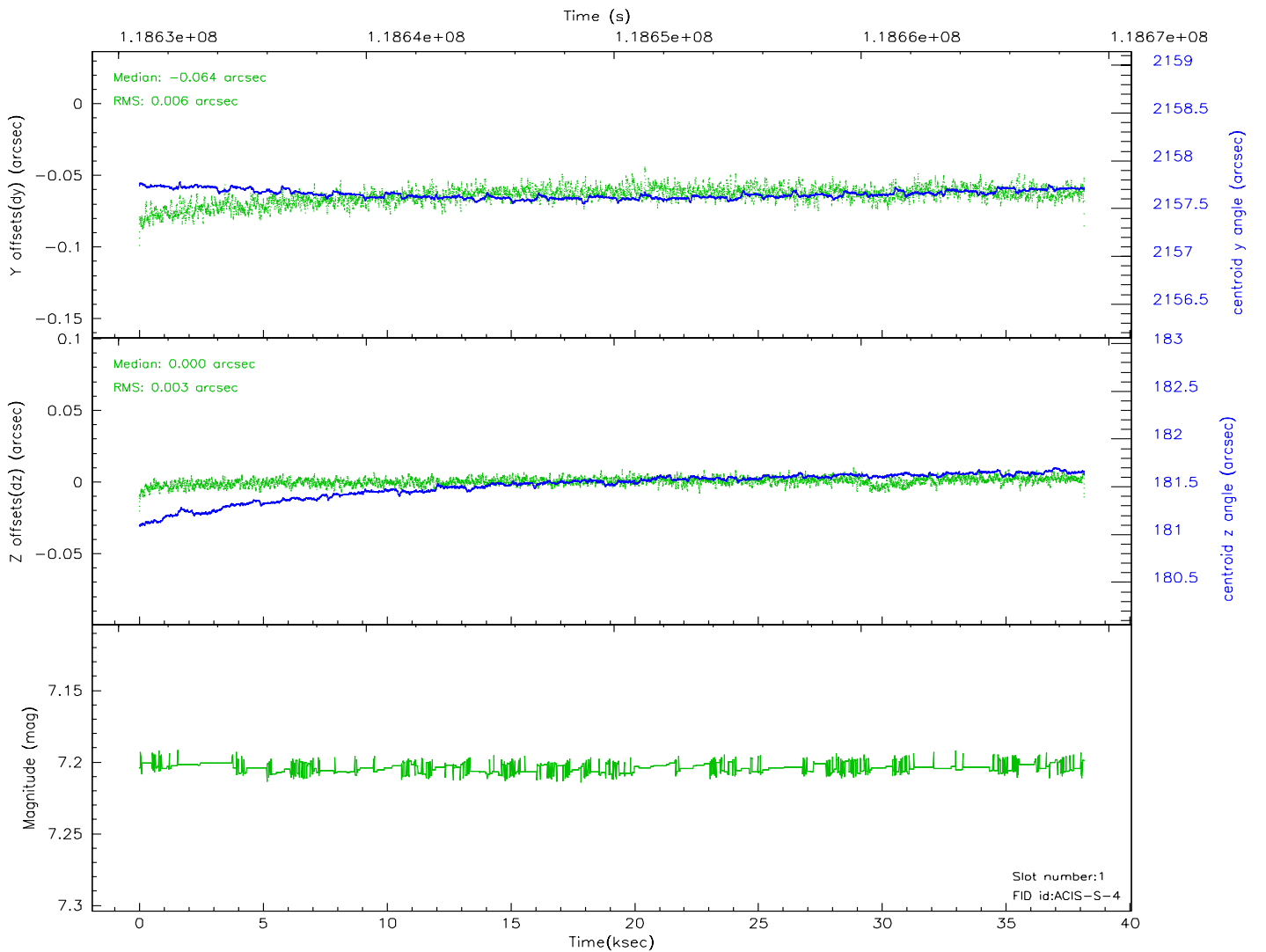
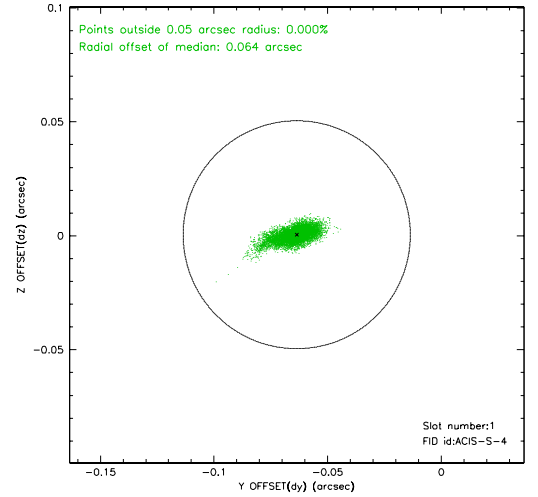
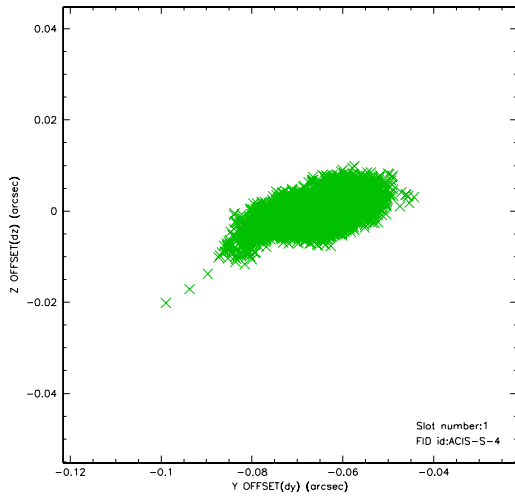


## 2.5 FID Slots

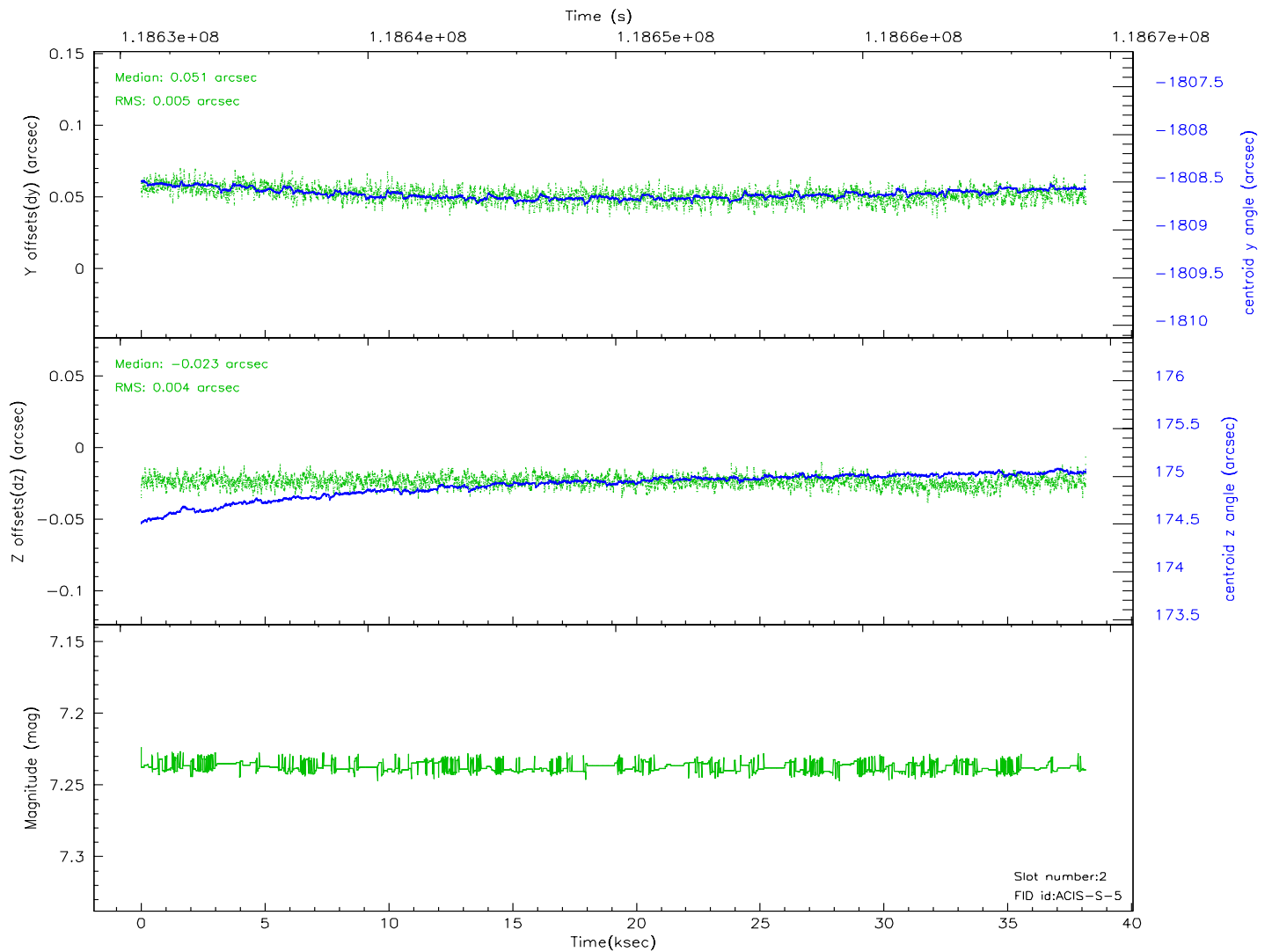
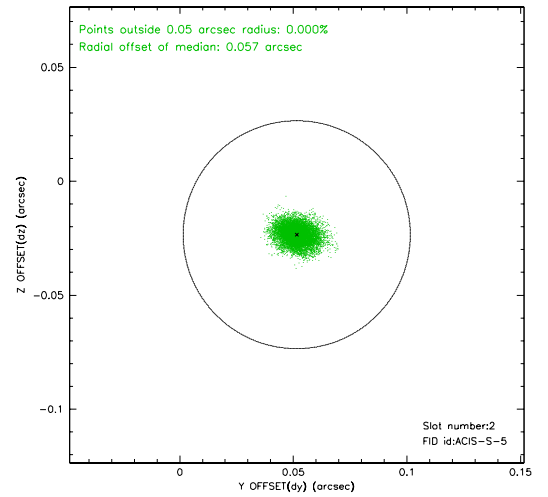
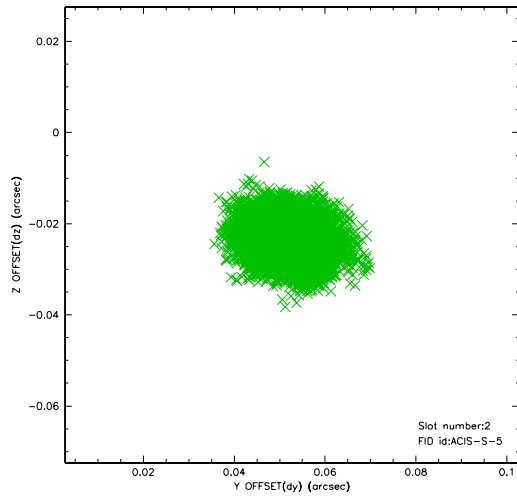
### 2.5.1 Slot 0



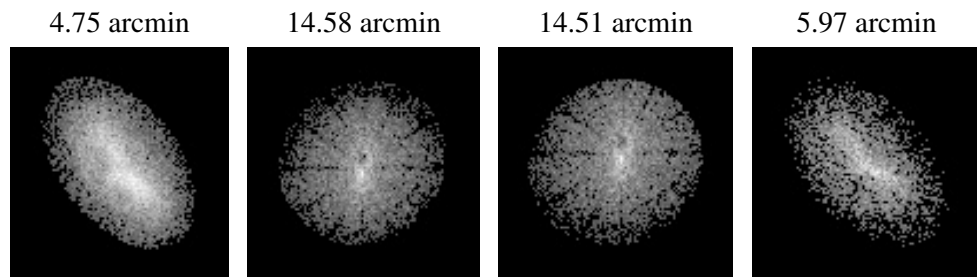
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2007.01.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.147

## A.2 Comments