

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 2950 - L2 Version 001  
Chandra X-Ray Center

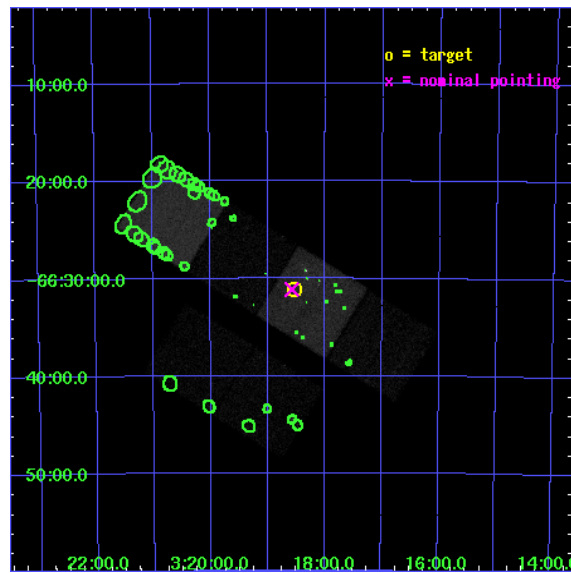
L2 Processing Date : Oct 7 2006

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# 1 Front

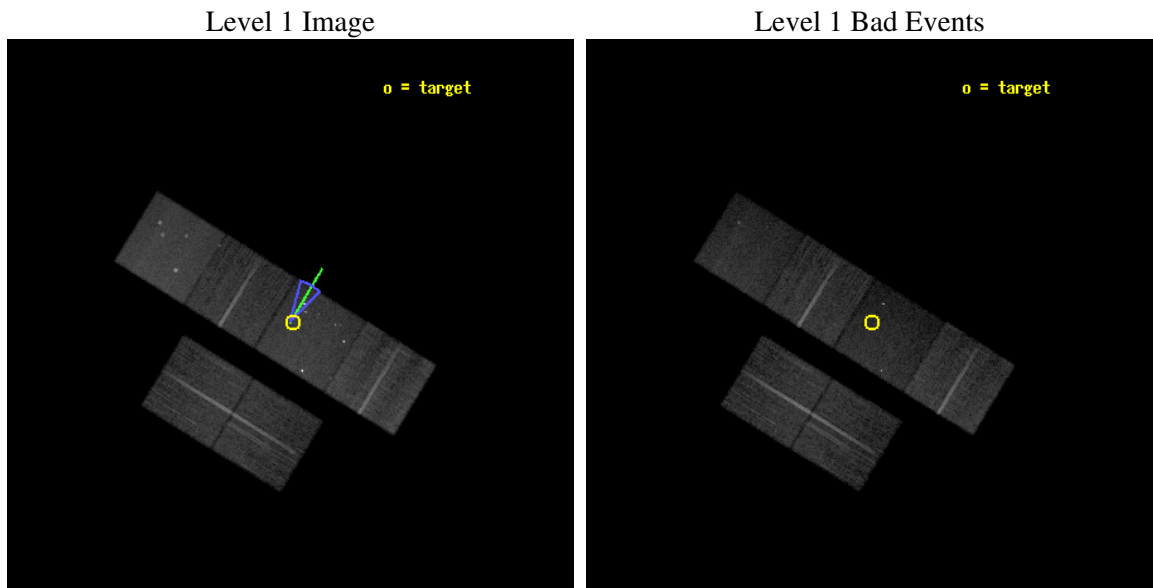
seq_num	600287
obs_id	2950
title	AN X-RAY STUDY OF NGC 1313
observer	Dr. Stephen Murray
object	NGC 1313
dtcycle	0
cycle	P
ra_targ	49.633333
dec_targ	-66.519444
ra_nom	49.644109198564
dec_nom	-66.518760212256
roll_nom	31.574032559499
revision	2
ontime	20156.79992491
livetime	19901.562387293
ontime2	20153.558954656
ontime3	20156.79992491
ontime5	20156.79992491
ontime6	20156.79992491
ontime7	20156.79992491
ontime8	20156.79992491
l2events	173689



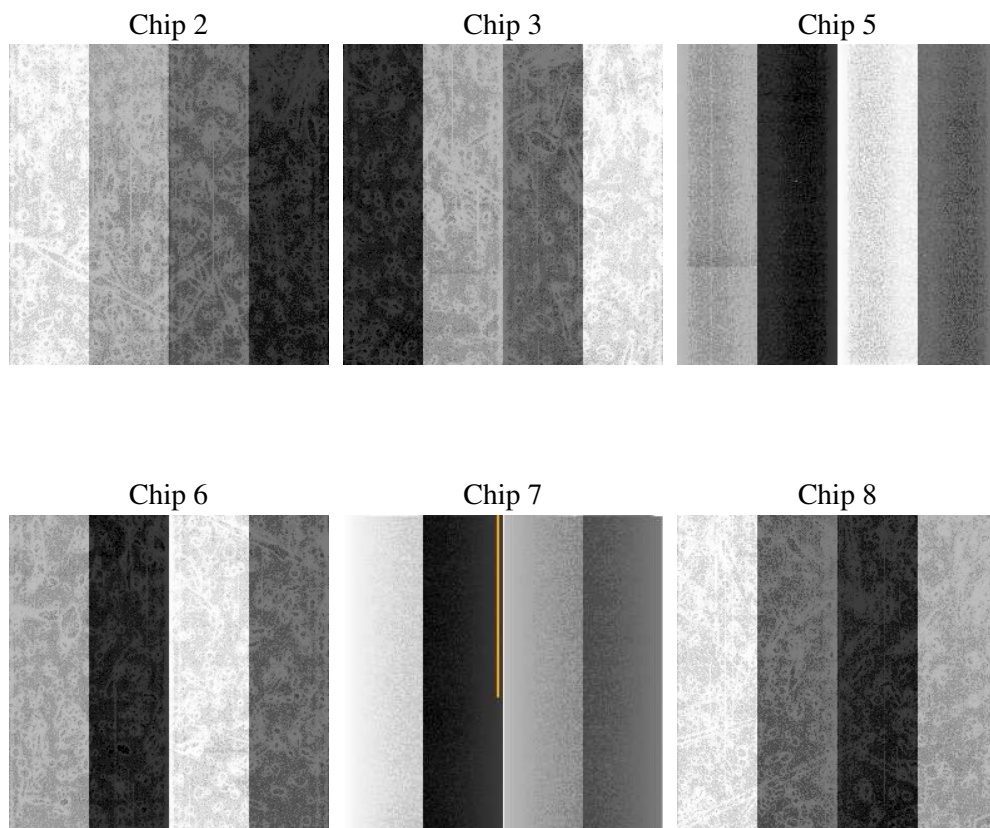
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.3
date	2006-10-07T06:27:54
revision	2

sched_exp_time	20000.000000
ontime	20353.485584259
ontime2	20350.244614005
ontime3	20353.485584259
ontime5	20353.485584259
ontime6	20353.485584259
ontime7	20353.485584259
ontime8	20353.485584259
l1events	775905

### 2.1.4 Events

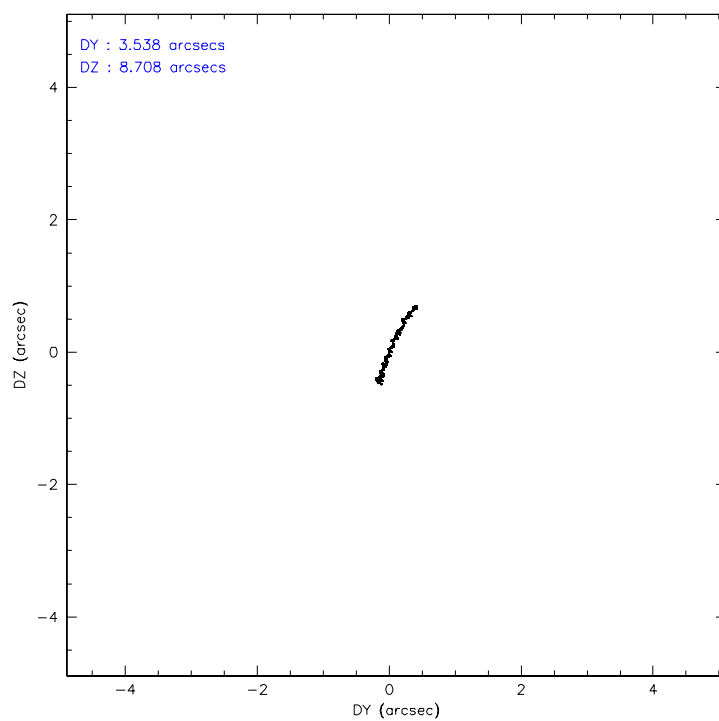
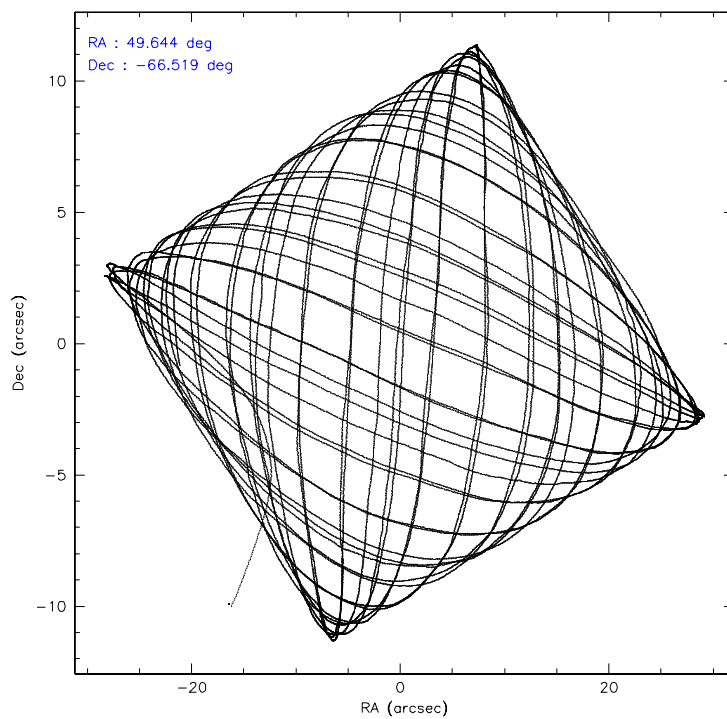
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	119427	109598	146876	113214	143884	142906
rejected events	108433	99073	76868	101570	72785	111998
rejected %	90%	90%	52%	89%	50%	78%

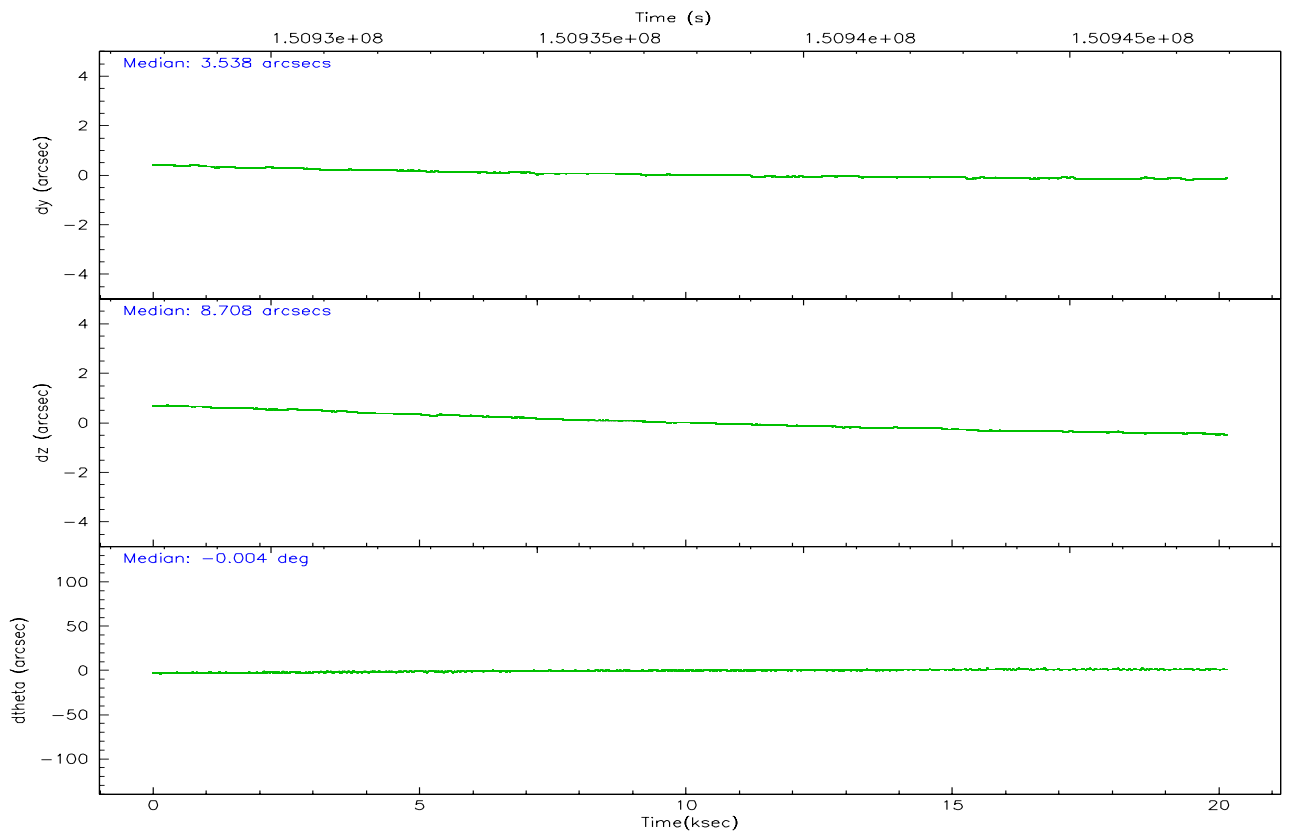
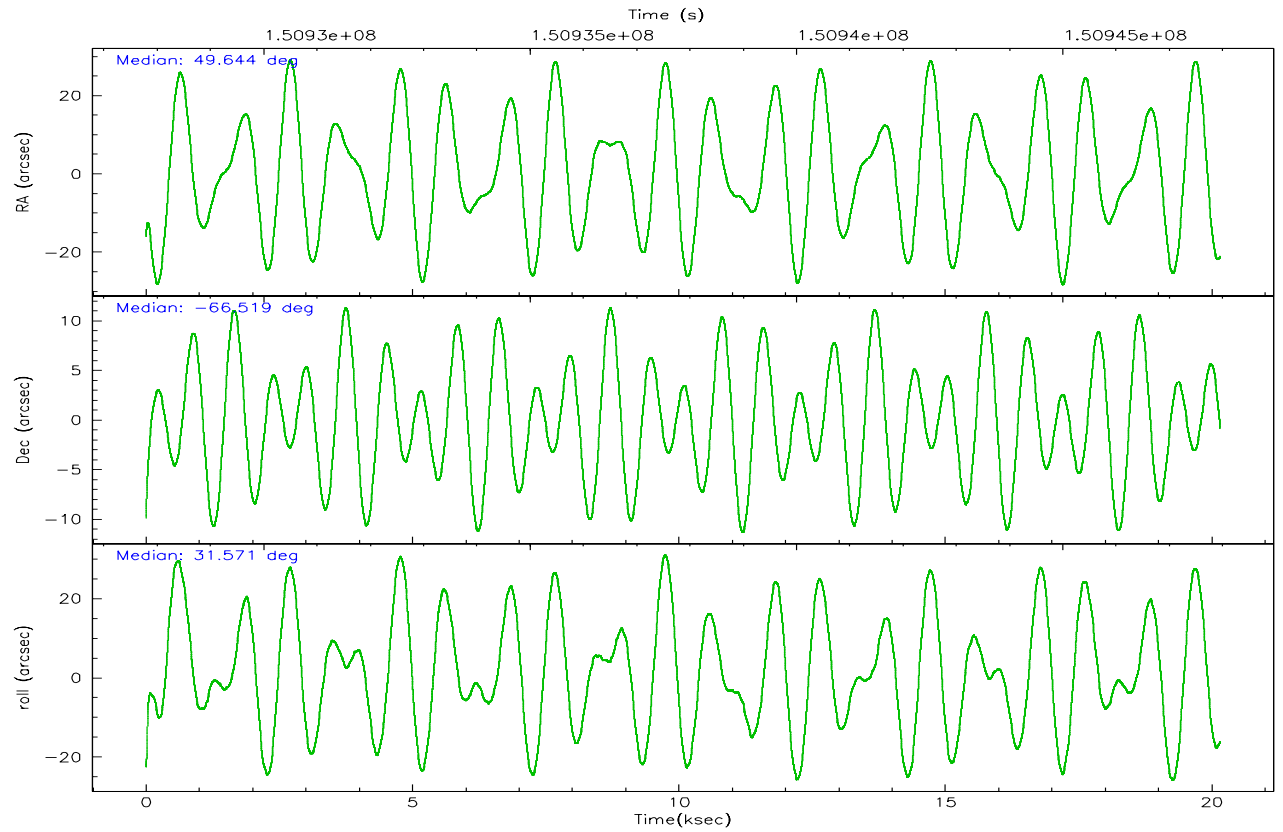
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	4070	3976	6397	4311	7820	9611
	3%	3%	4%	3%	5%	6%
grade 1 events	42	53	152	41	271	86
	0%	0%	0%	0%	0%	0%
grade 2 events	2562	2107	21634	2435	18458	6866
	2%	1%	14%	2%	12%	4%
grade 3 events	1248	1264	2012	1330	5100	3430
	1%	1%	1%	1%	3%	2%
grade 4 events	1219	1207	1699	1304	4991	3131
	1%	1%	1%	1%	3%	2%
grade 5 events	3587	4030	7940	4289	10204	6008
	3%	3%	5%	3%	7%	4%
grade 6 events	1983	2077	38987	2424	35411	8250
	1%	1%	26%	2%	24%	5%
grade 7 events	104716	94884	68055	97080	61629	105524
	87%	86%	46%	85%	42%	73%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	49.612386	49.64410919856394	Subarray requested	NONE	NONE
Pointing Dec	-66.542888	-66.51876021225607	Alternating exposures requested	N	N
Pointing Roll	31.388318	31.57403255949855	Primary exposure time	0.000000	3.2
Roll angle	30.000000	30.000000			
Roll tolerance	15.000000	15.000000			
Roll constraint allows 180D rotation	N	N			
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	150927949.184000	150926795.23246			
Observation start date	2002-10-13T20:24:45	2002-10-13T20:06:35			
Observation end time	150947949.184000	150948562.13336			
Observation end date	2002-10-14T01:58:05	2002-10-14T02:09:22			
Read mode	TIMED	TIMED			

## 2.3 Aspect





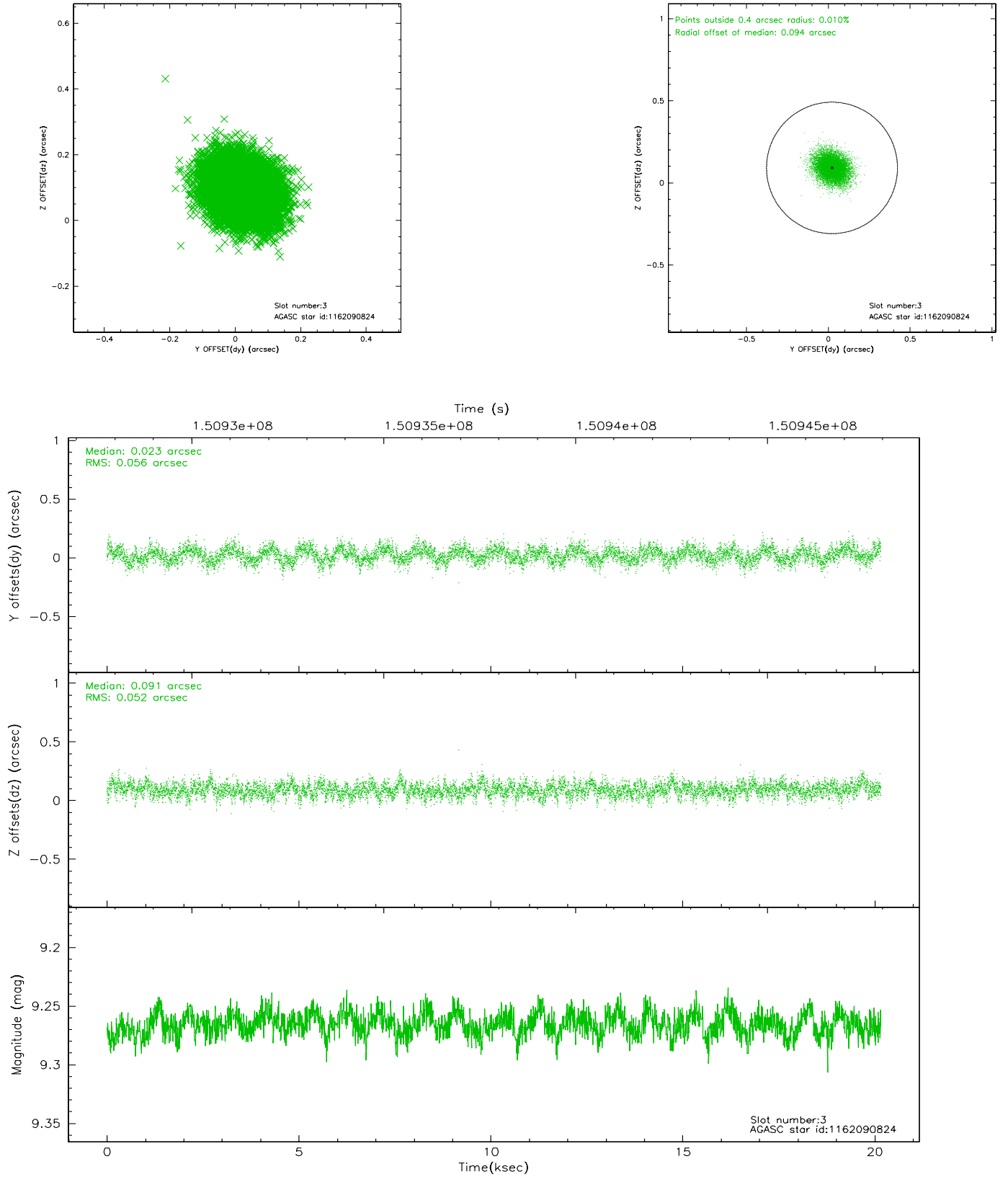
### Slot Statistics

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	4918	-0.012	0.004	0.011	0.019	0.000000	0.000000	-756.25	-1729.96
1	FID	ACIS-S-4	7.20	4918	-0.017	0.005	0.011	0.025	0.000000	0.000000	2156.94	178.33
2	FID	ACIS-S-5	7.24	4918	-0.003	-0.001	0.008	0.013	0.000000	0.000000	-1808.85	172.21
3	GUIDE	1162090824	9.27	9832	0.023	0.091	0.082	0.133	48.677982	-66.885202	-1774.42	-372.49
4	GUIDE	1162094224	9.69	9827	-0.014	0.009	0.112	0.181	49.638584	-66.701903	-266.68	-507.98
5	GUIDE	1162087800	9.60	9789	-0.106	0.002	0.112	0.183	47.475790	-66.376389	-2346.47	2071.84
6	GUIDE	1162090640	10.09	9829	0.072	-0.123	0.135	0.224	49.256309	-66.538337	-428.03	278.81
7	GUIDE	1162092192	9.19	9831	0.016	0.017	0.102	0.164	47.622538	-66.499529	-2381.06	1582.12

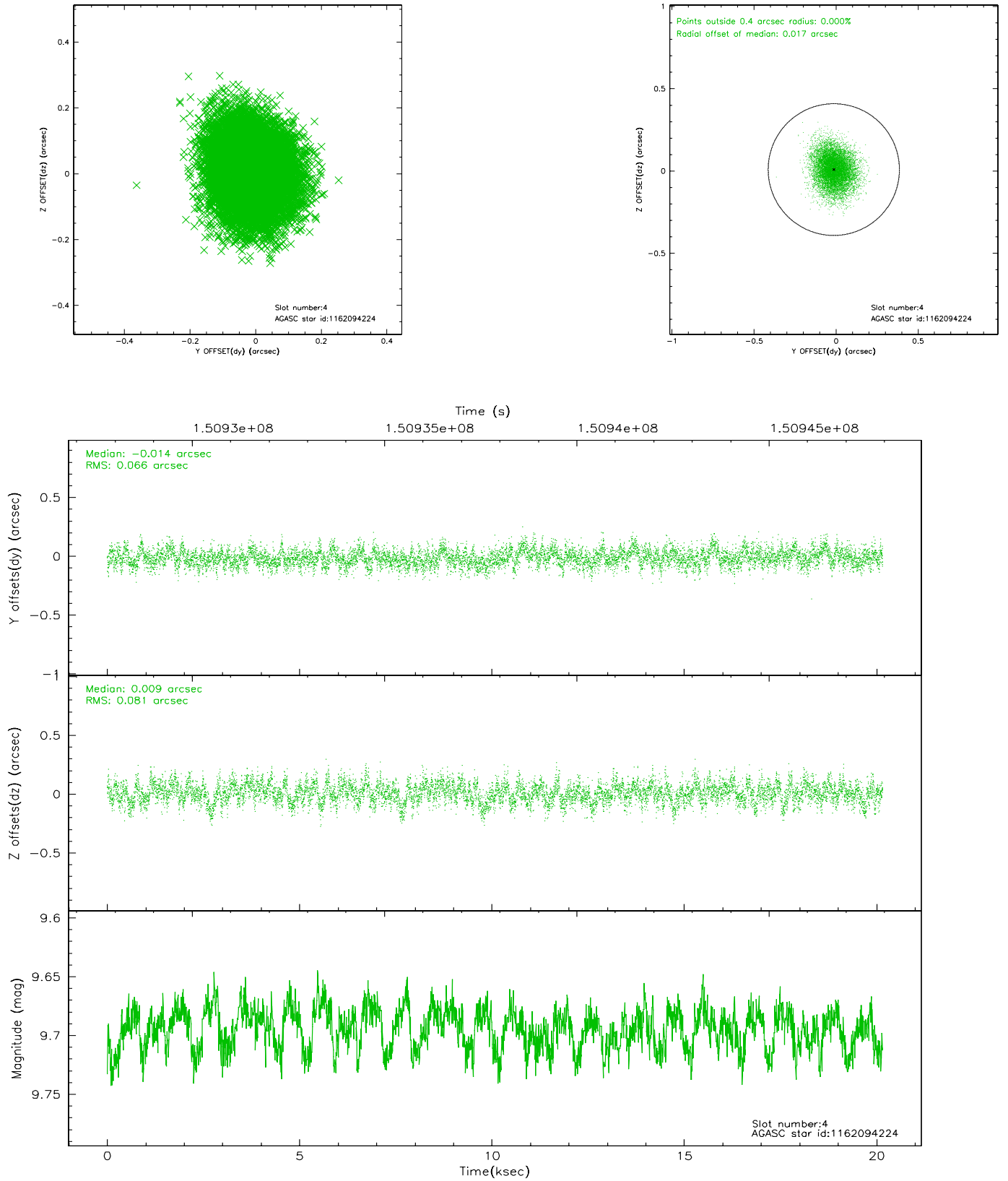


## 2.4 Star Slots

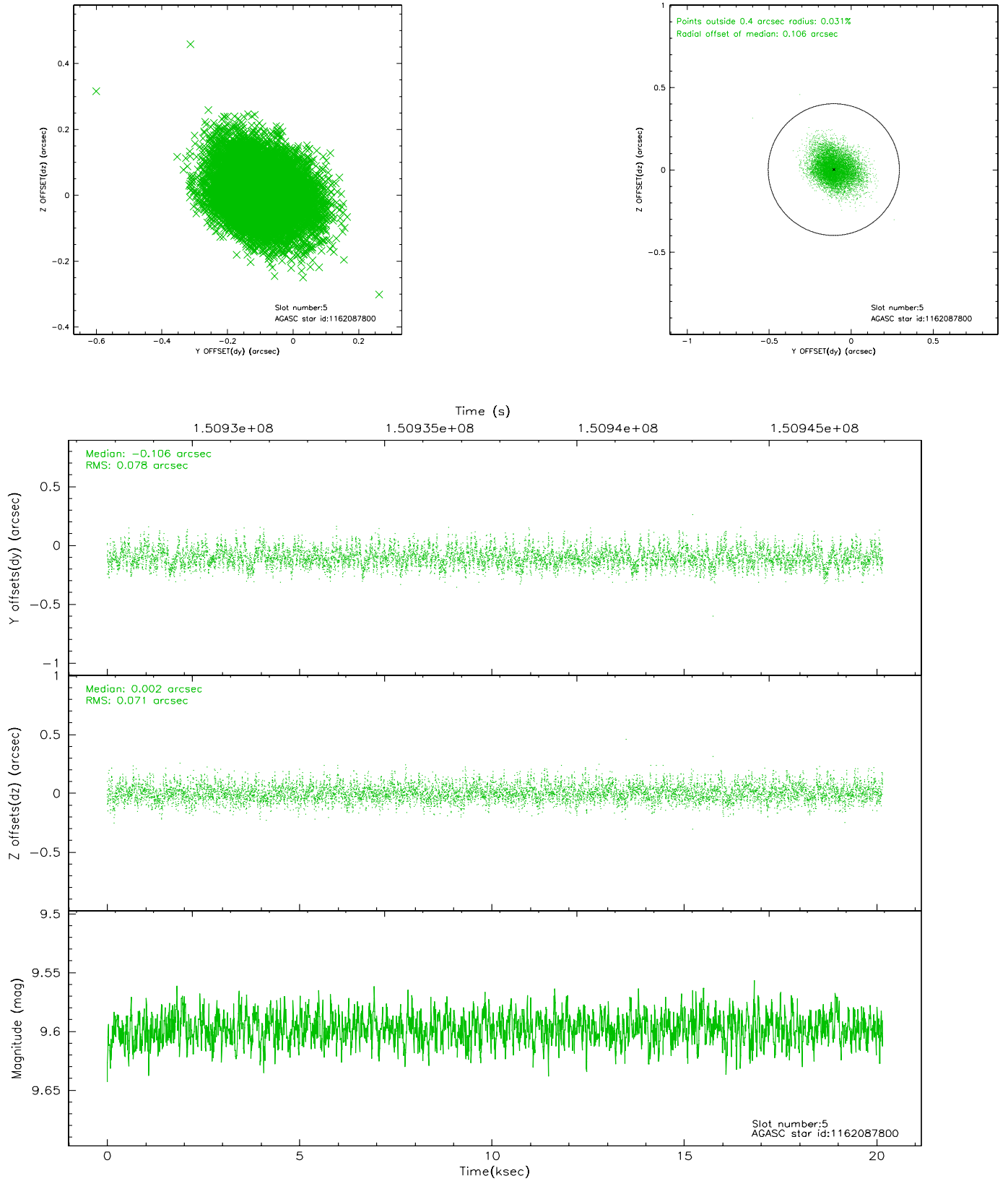
### 2.4.1 Slot 3



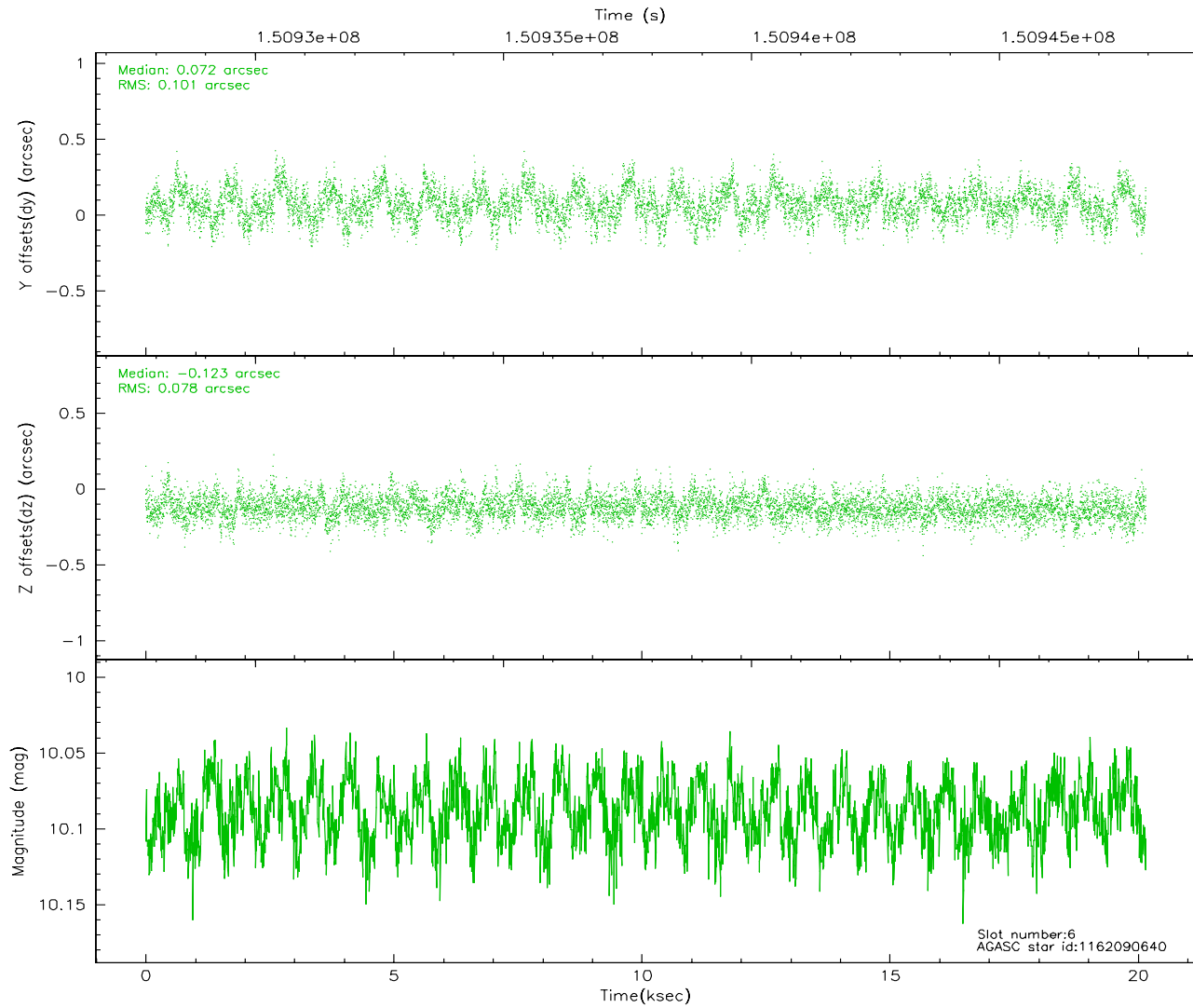
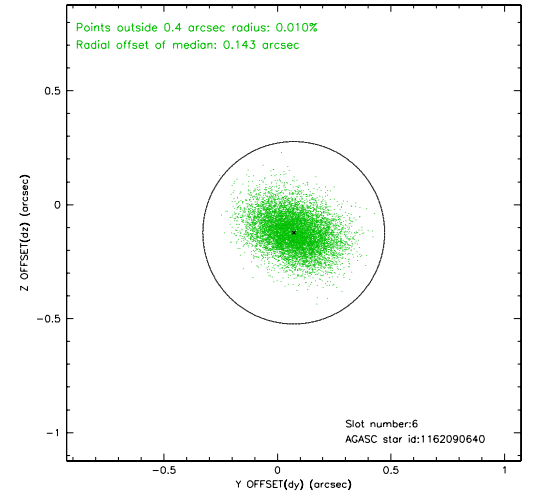
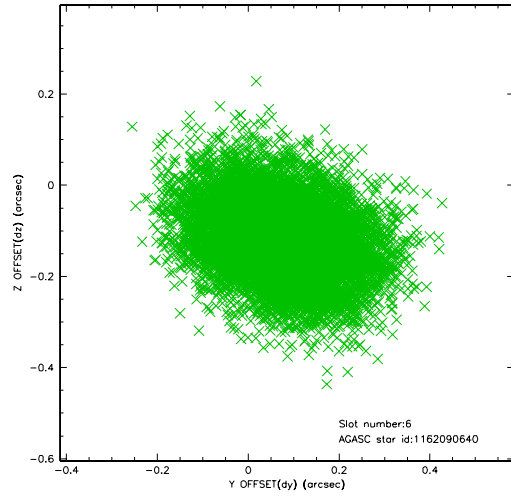
## 2.4.2 Slot 4



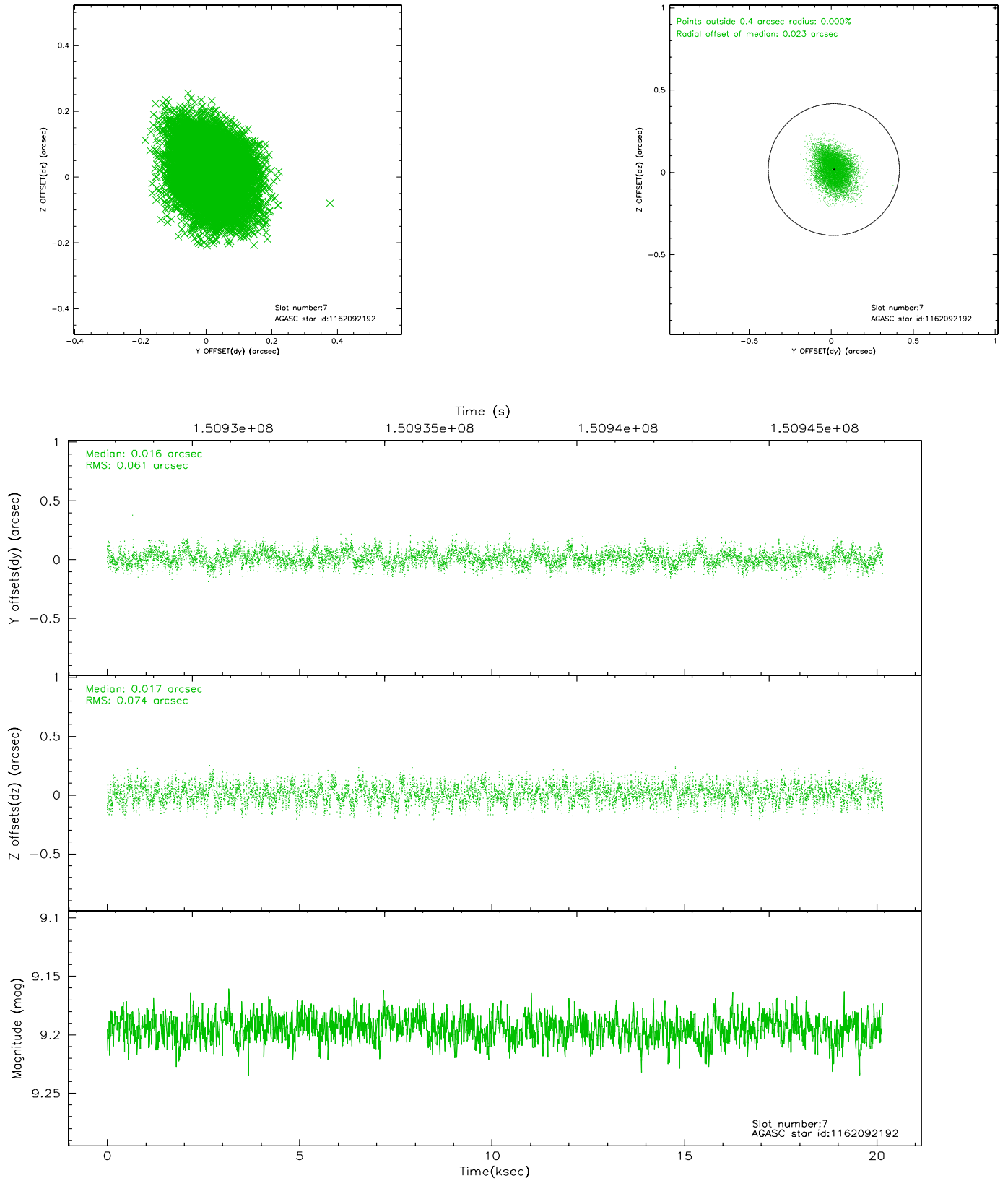
### 2.4.3 Slot 5



## 2.4.4 Slot 6

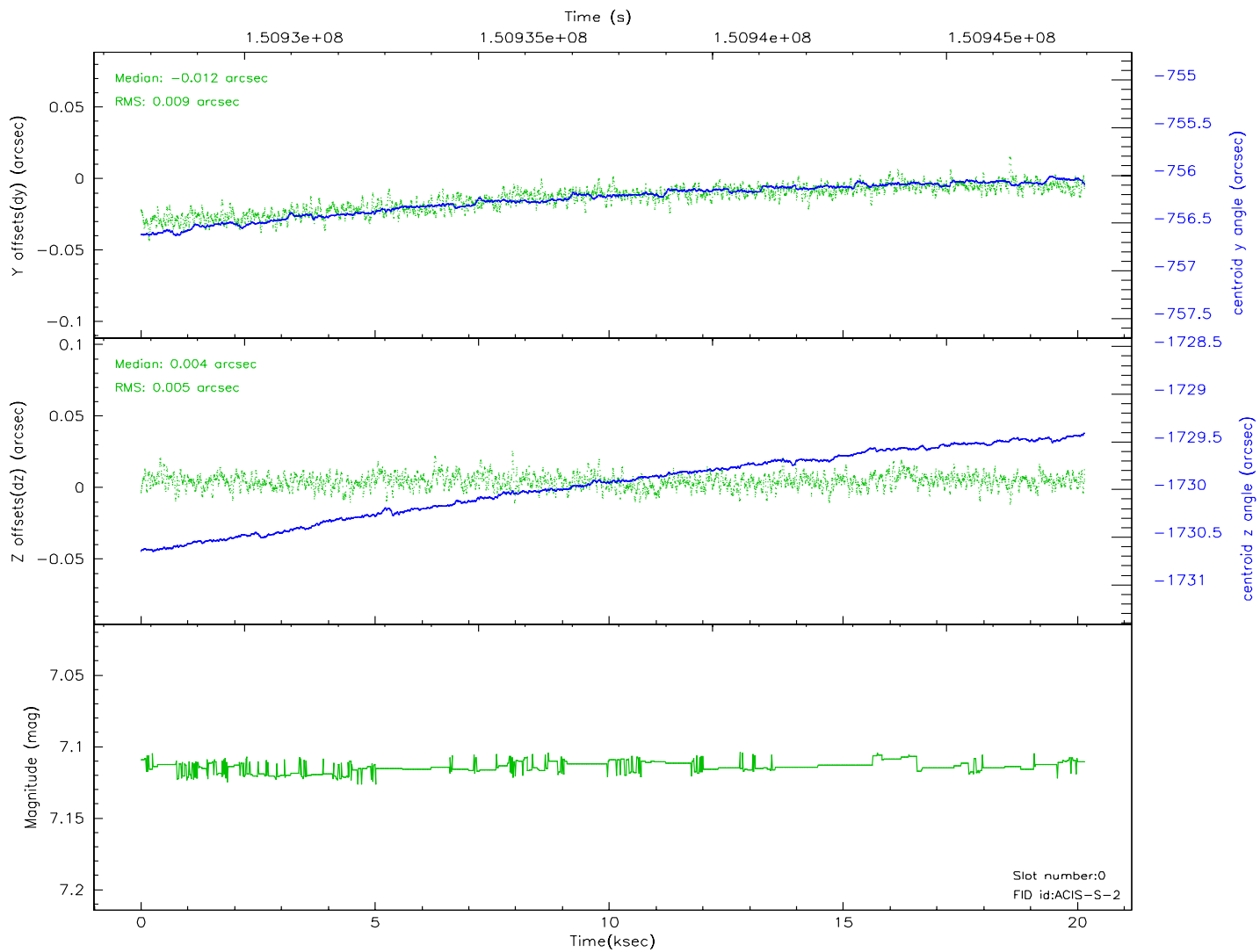
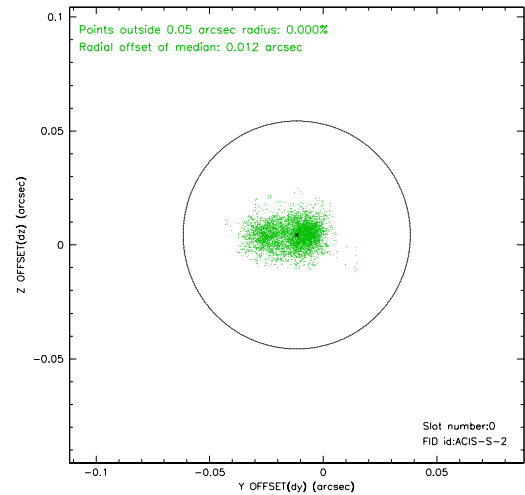
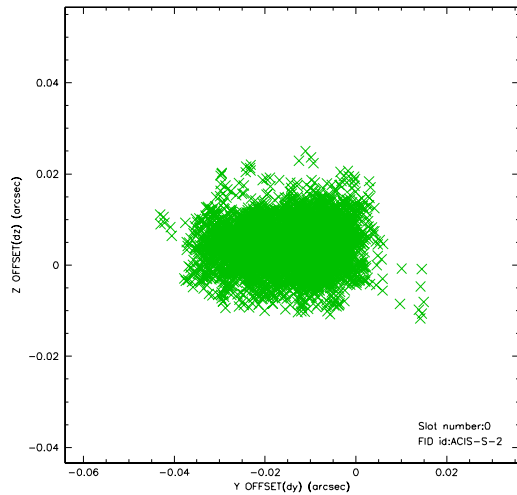


## 2.4.5 Slot 7

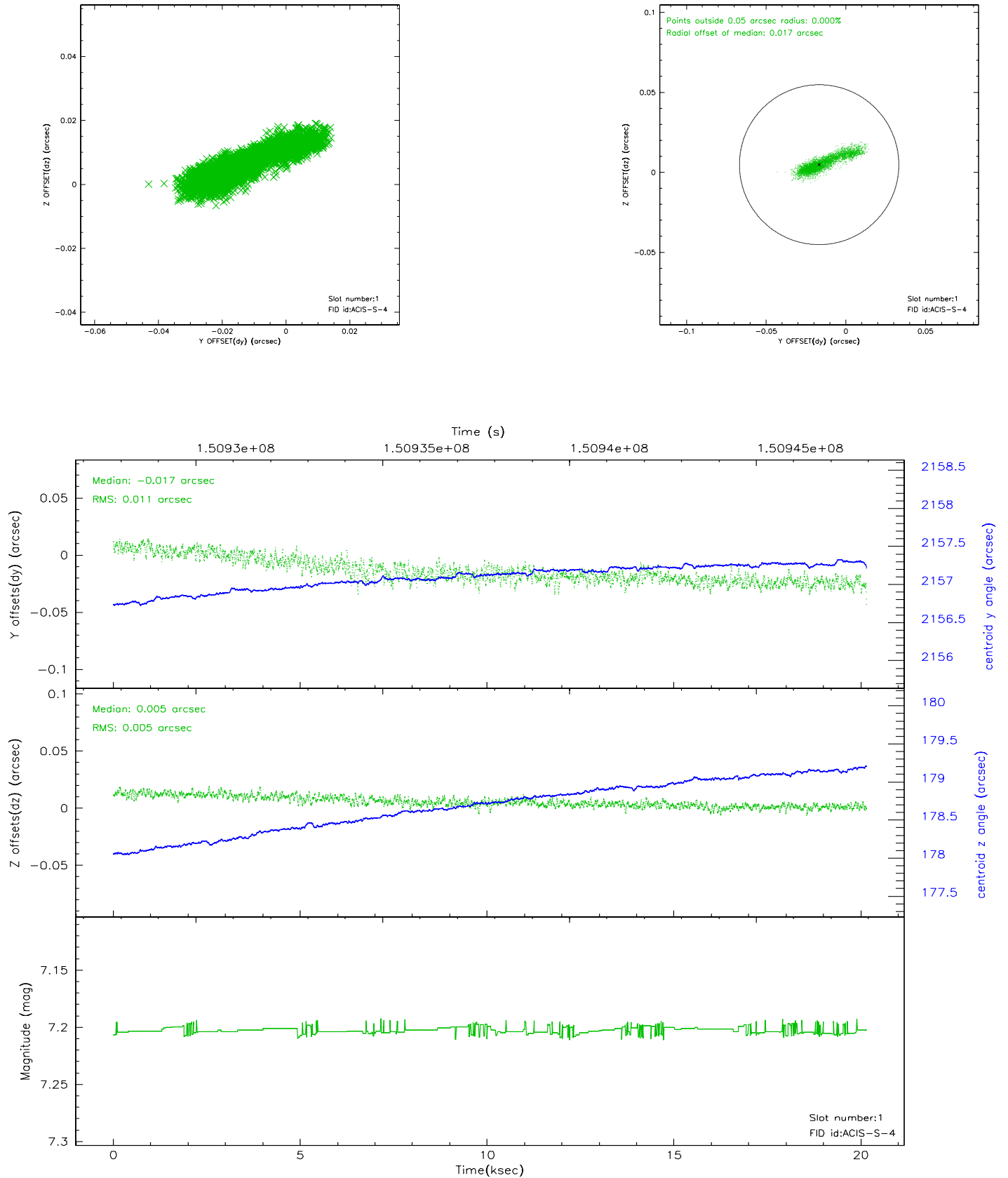


## 2.5 FID Slots

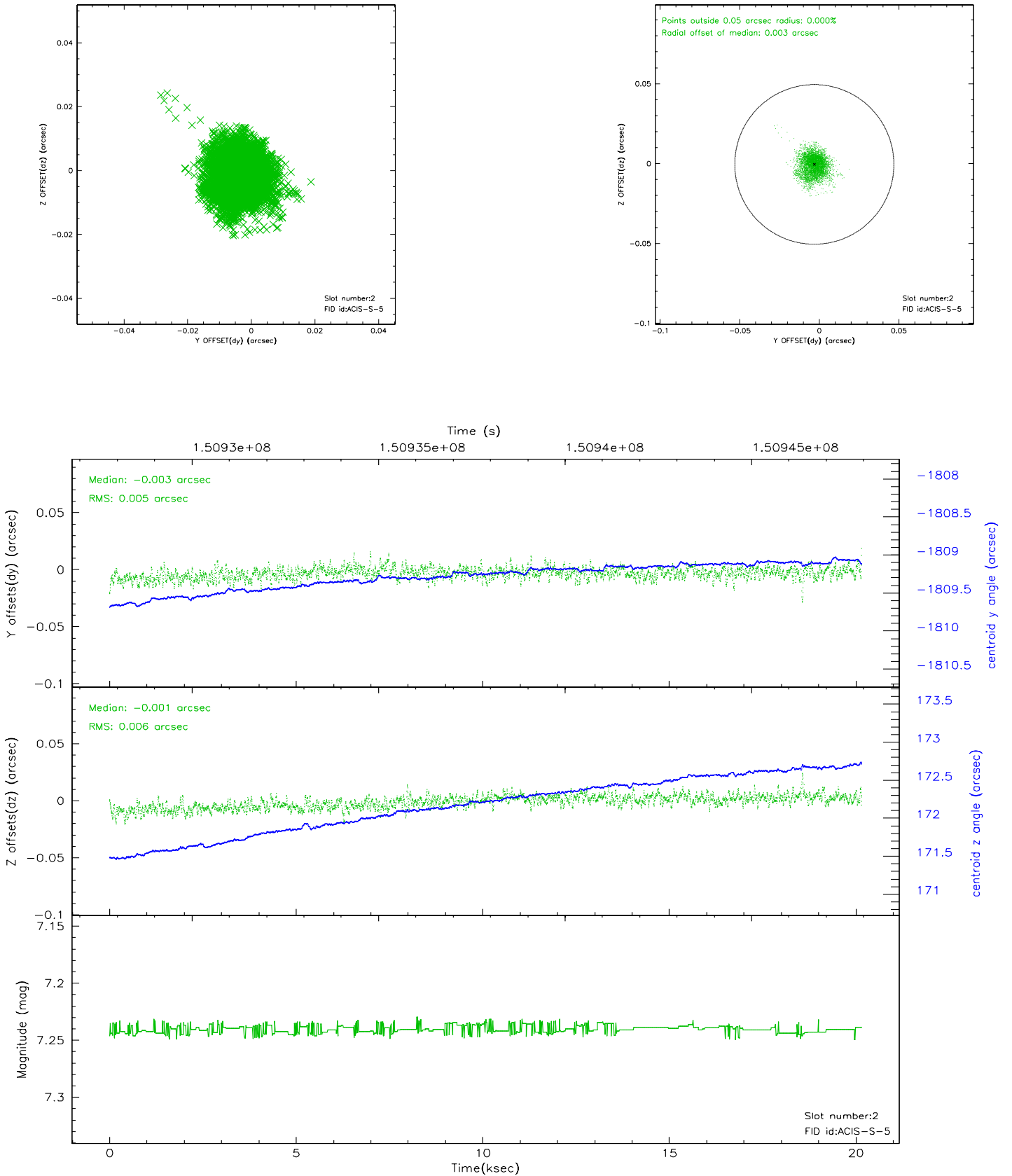
### 2.5.1 Slot 0



## 2.5.2 Slot 1

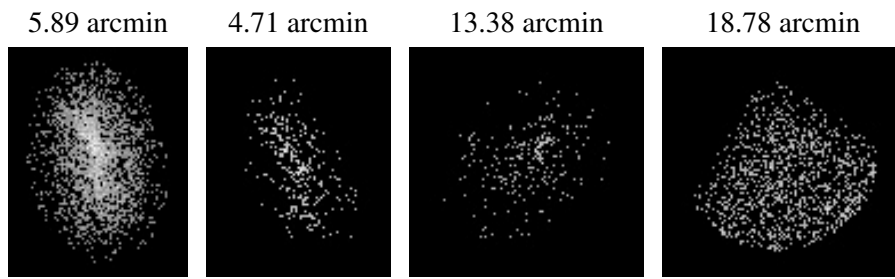


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.156

### A.2 Comments

Roll constraint met.