

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 753 - L2 Version 4  
Chandra X-Ray Center

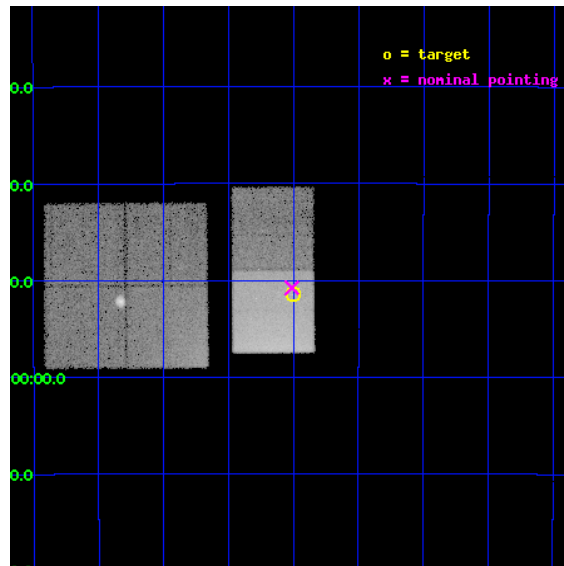
L2 Processing Date : Aug 25 2012

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# 1 Front

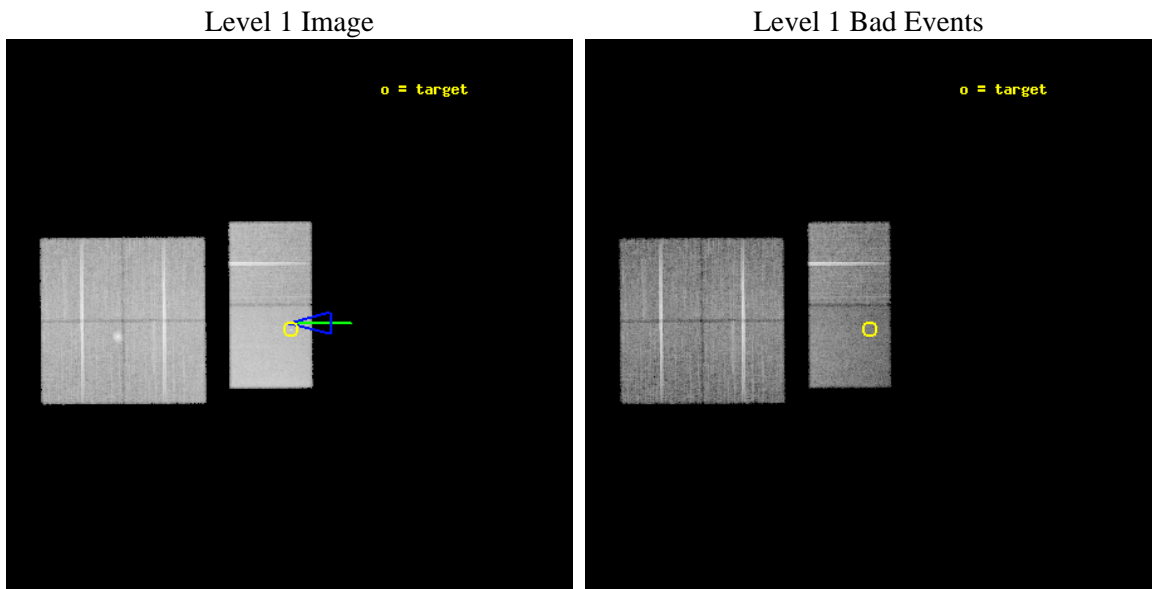
seq_num	500049	Sequence number
obs_id	753	Observation id
title	AXAF OBSERVATIONS OF THE DUCK PULSAR PSR B1757-24	Proposal title
observer	Dr. Victoria Kaspi	Principal investigator
object	PSR B1757-24	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	270.250833	Observer's specified target RA [deg]
dec_targ	-24.857528	Observer's specified target Dec [deg]
ra_nom	270.25296688191	Nominal RA [deg]
dec_nom	-24.846167152017	Nominal Dec [deg]
roll_nom	89.62822867988	Nominal Roll [deg]
revision	4	Processing version of data
ontime	19929.559088245	Sum of GTIs [s]
livetime	19677.19901093	Livetime [s]
ontime0	19932.800018549	Sum of GTIs [s]
ontime1	19929.559088245	Sum of GTIs [s]
ontime2	19932.800018549	Sum of GTIs [s]
ontime3	19932.800018549	Sum of GTIs [s]
ontime6	19932.800018549	Sum of GTIs [s]
ontime7	19929.559088245	Sum of GTIs [s]
l2events	237005	Number of level 2 events



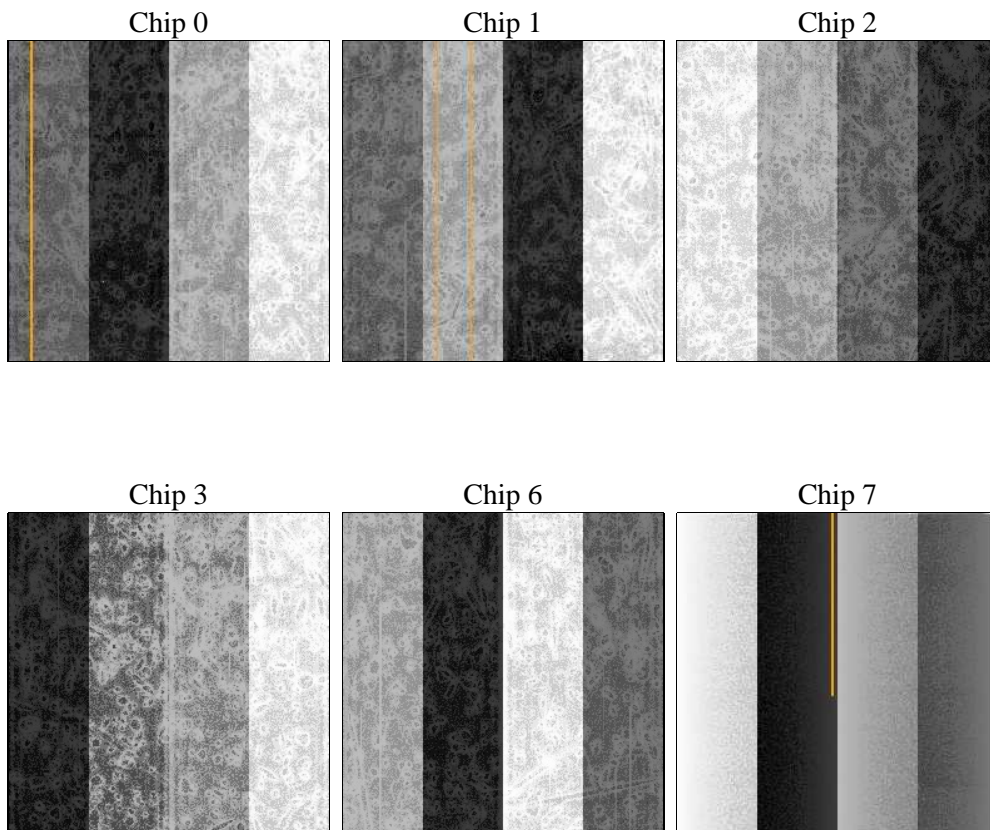
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19610.340000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	19929.559088245	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime0	19932.800018549	Sum of GTIs [s]
date	2012-08-25T15:46:54	Date and time of file creation	ontime1	19929.559088245	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	19932.800018549	Sum of GTIs [s]
			ontime3	19932.800018549	Sum of GTIs [s]
			ontime6	19932.800018549	Sum of GTIs [s]
			ontime7	19929.559088245	Sum of GTIs [s]
			l1events	977378	Number of level 1 events

### 2.1.4 Events

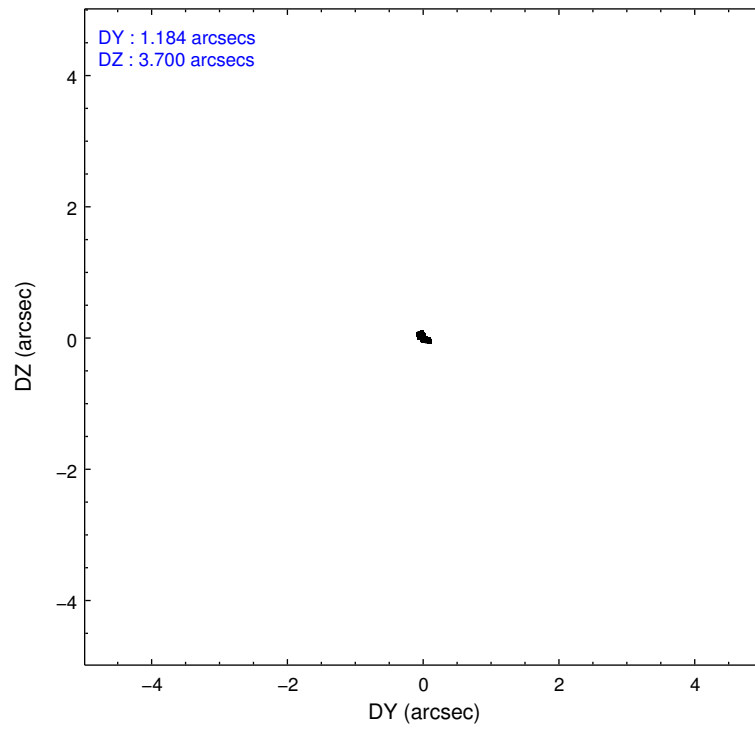
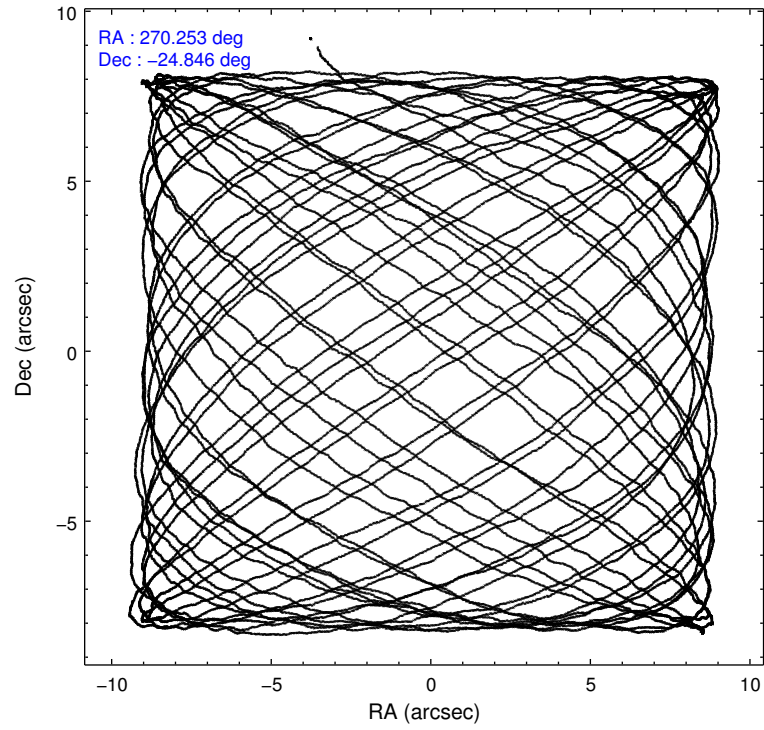
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	142173	140557	152262	159588	156672	226126	grade 0 events	9752	14795	11150	19615	13549	19767
rejected events	122601	114052	131052	126983	131447	97605		6%	10%	7%	12%	8%	8%
rejected %	86%	81%	86%	79%	83%	43%	grade 1 events	79	100	90	135	79	172
								0%	0%	0%	0%	0%	0%
							grade 2 events	3562	4283	3921	5100	4327	28750
								2%	3%	2%	3%	2%	12%
							grade 3 events	1804	2084	1712	2215	2046	13311
								1%	1%	1%	1%	1%	5%
							grade 4 events	1630	2015	1692	2254	1880	13113
								1%	1%	1%	1%	1%	5%
							grade 5 events	4554	4833	4236	4792	5411	16496
								3%	3%	2%	3%	3%	7%
							grade 6 events	2827	3330	2735	3425	3429	53603
								1%	2%	1%	2%	2%	23%
							grade 7 events	117965	109117	126726	122052	125951	80914
								82%	77%	83%	76%	80%	35%

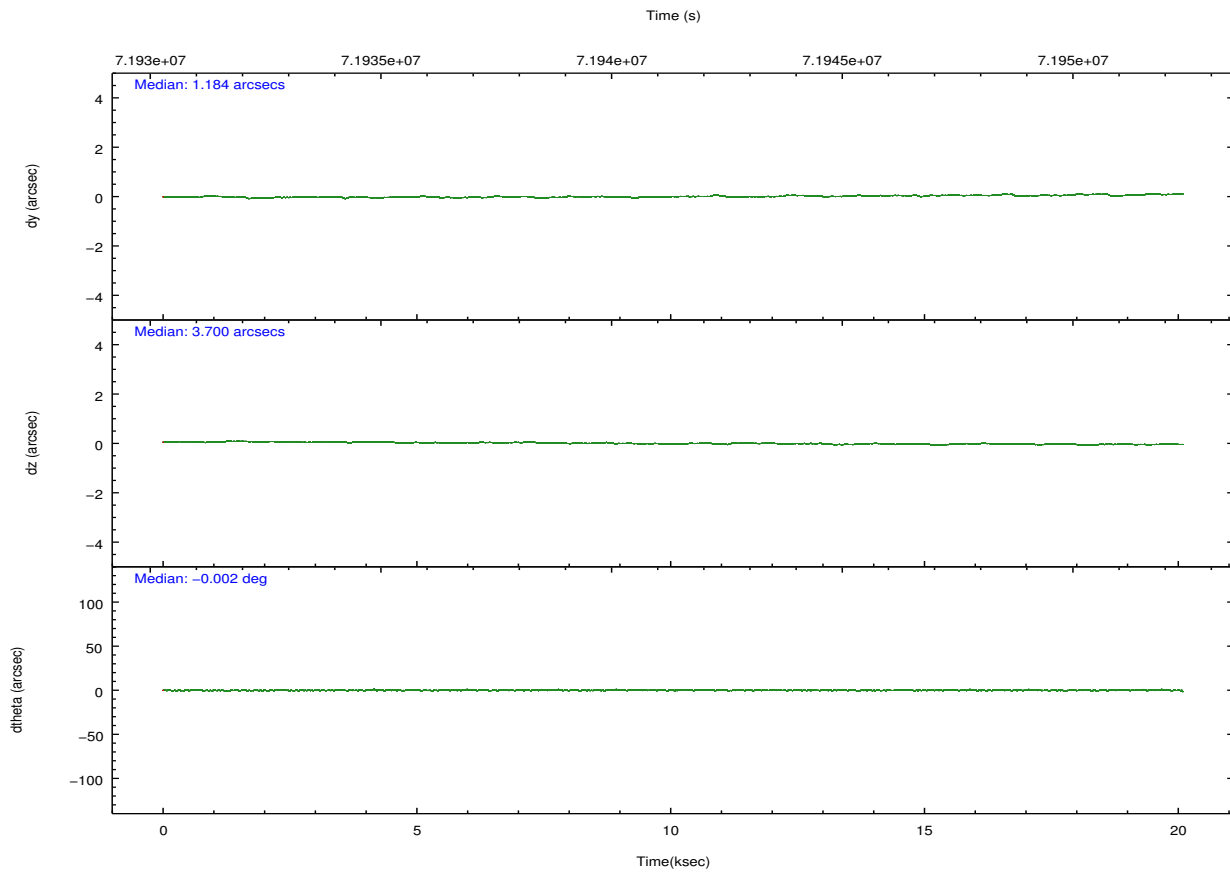
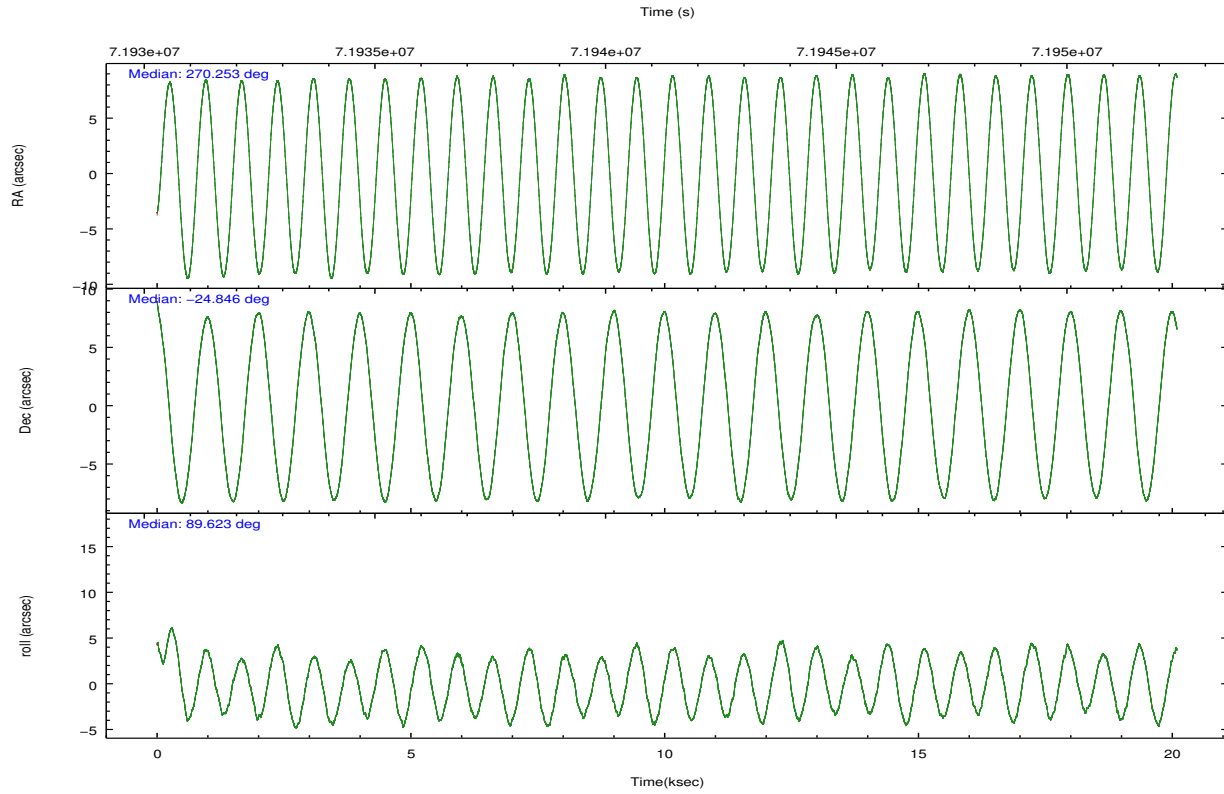
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	270.267973	270.2529668819078
[deg] Pointing Dec	-24.870003	-24.84616715201742
[deg] Pointing Roll	89.477902	89.62822867988041
[deg] Roll angle	90.000000	90.000000
[deg] Roll tolerance	15.000000	15.000000
Roll constraint allows 180D rotation	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-184.132523	-184.1283381638419
[mm] SIM translation stage offset	-6	-6.004184419165881
[s] Observation start time (MET)	71931775.184000	71930483.399804
Observation start date	2000-04-12T13:01:51	2000-04-12T12:41:23
[s] Observation end time (MET)	71951386.184000	71951694.750581
Observation end date	2000-04-12T18:28:42	2000-04-12T18:34:54
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



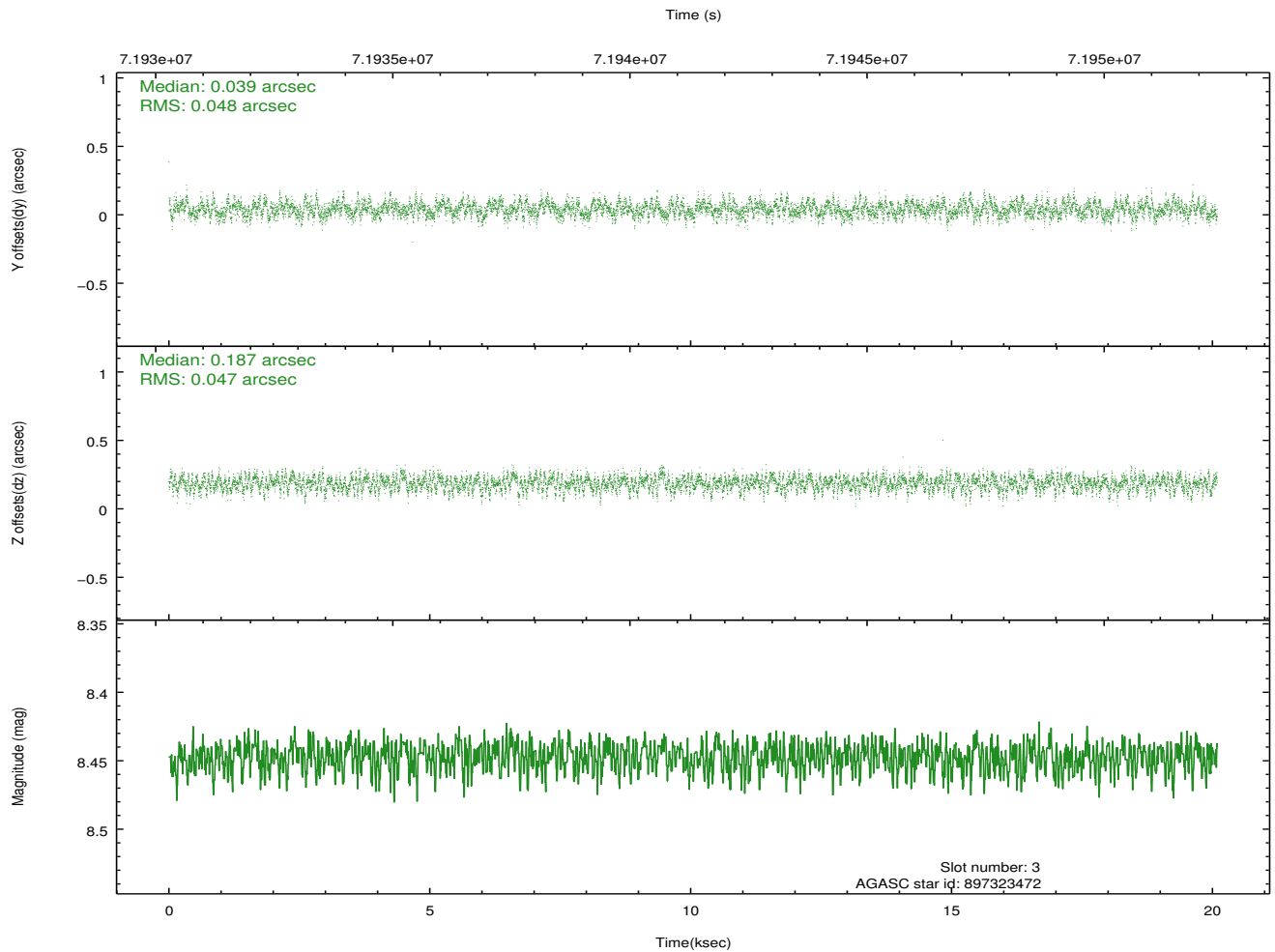
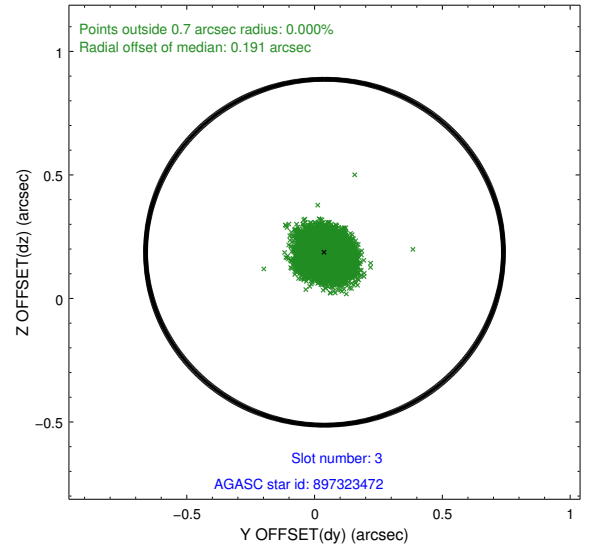
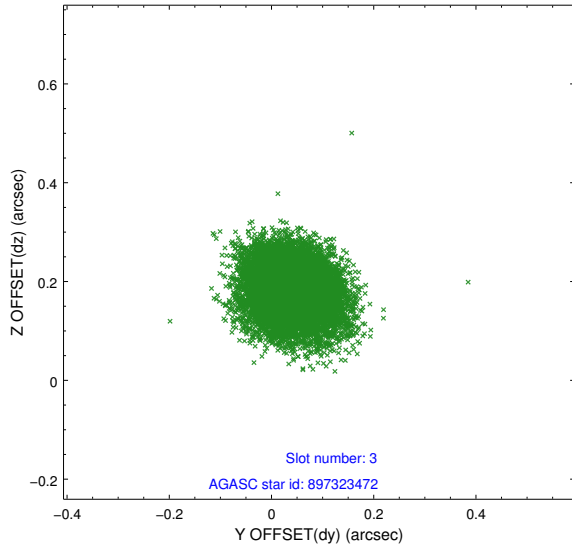


### Slot Statistics

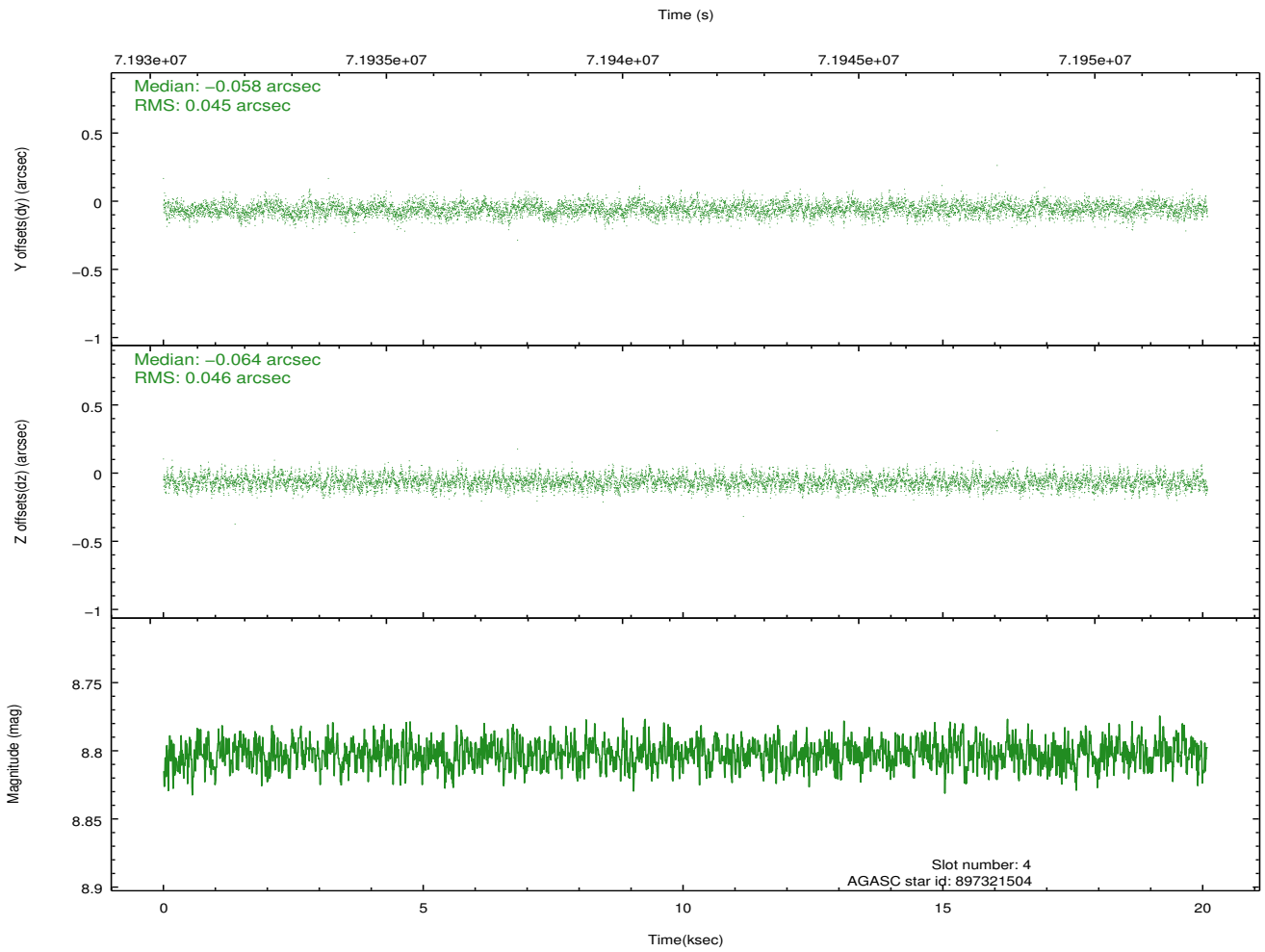
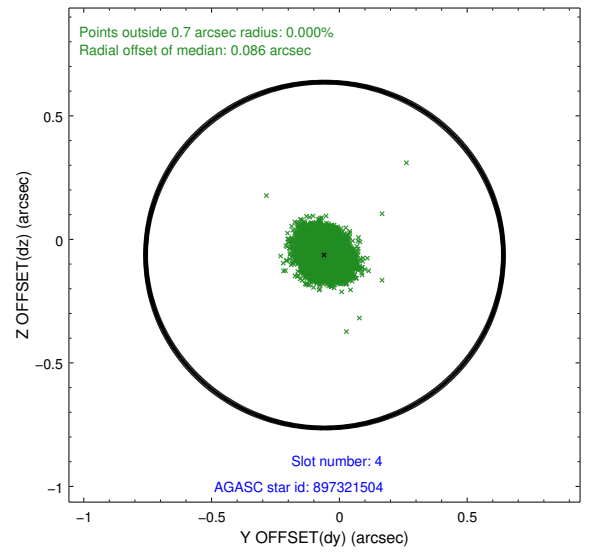
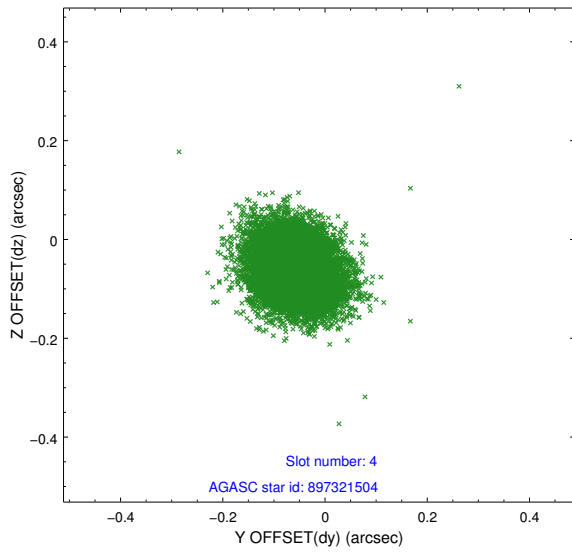
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.35	4901	-0.024	-0.016	0.007	0.011	0.000000	0.000000	59.73	-1977.62
1	FID	ACIS-S-4	7.19	4901	0.033	0.021	0.006	0.010	0.000000	0.000000	2160.03	59.62
2	FID	ACIS-S-5	7.23	4901	-0.037	0.004	0.006	0.011	0.000000	0.000000	-1806.00	53.68
3	GUIDE	897323472	8.45	9796	0.039	0.187	0.072	0.115	270.860121	-25.266503	-1414.54	-1940.64
4	GUIDE	897321504	8.80	9795	-0.058	-0.064	0.069	0.110	270.176705	-24.677132	690.52	304.79
5	GUIDE	897189680	9.38	9795	0.009	-0.174	0.091	0.146	269.757758	-25.189569	-1169.50	1651.41
6	GUIDE	897323144	9.19	9797	0.151	0.215	0.092	0.143	270.933673	-25.312527	-1579.16	-2180.61
7	GUIDE	897192008	10.13	9791	-0.137	-0.162	0.118	0.192	269.632818	-24.417176	1605.13	2096.71

## 2.4 Star Slots

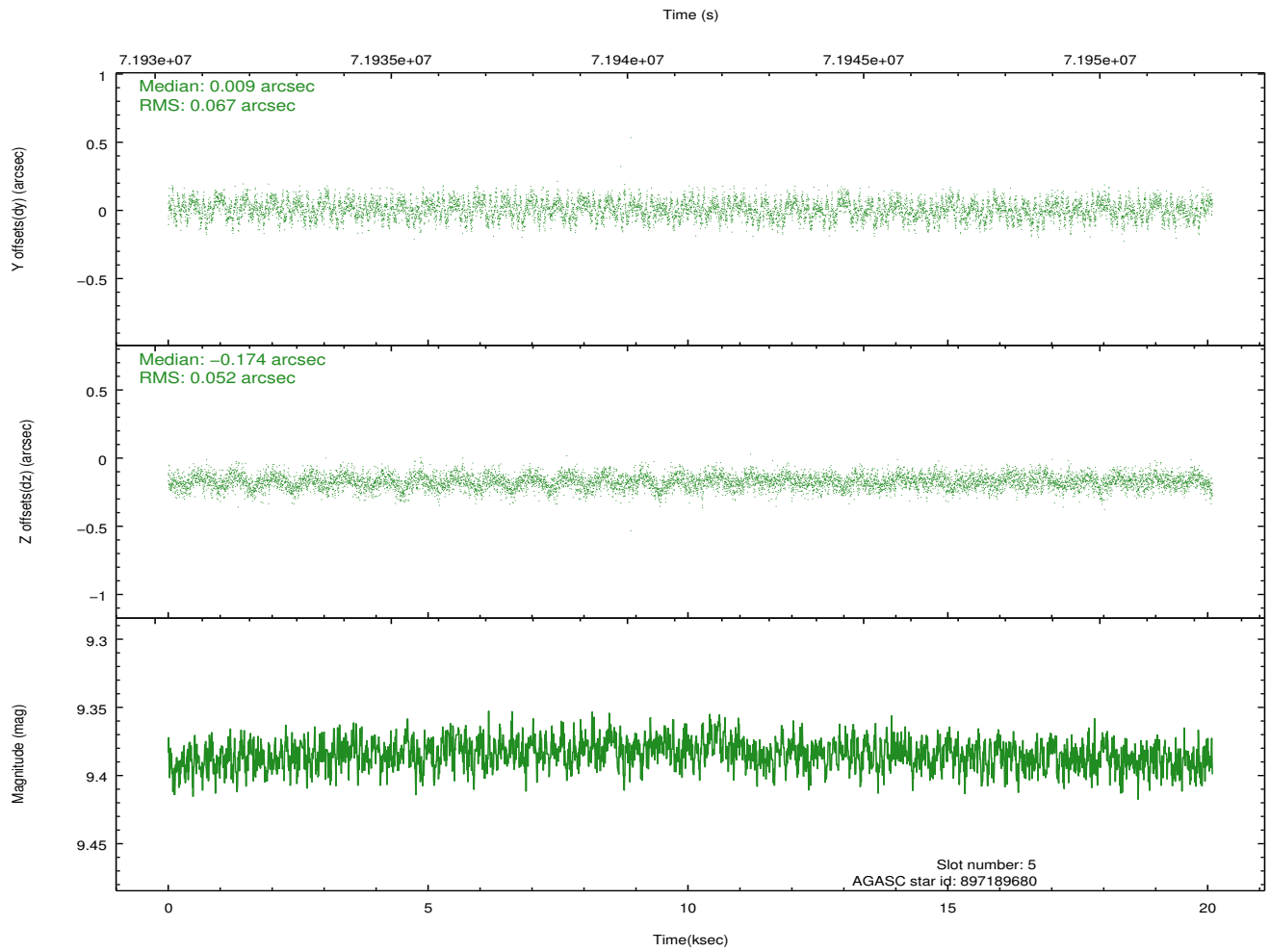
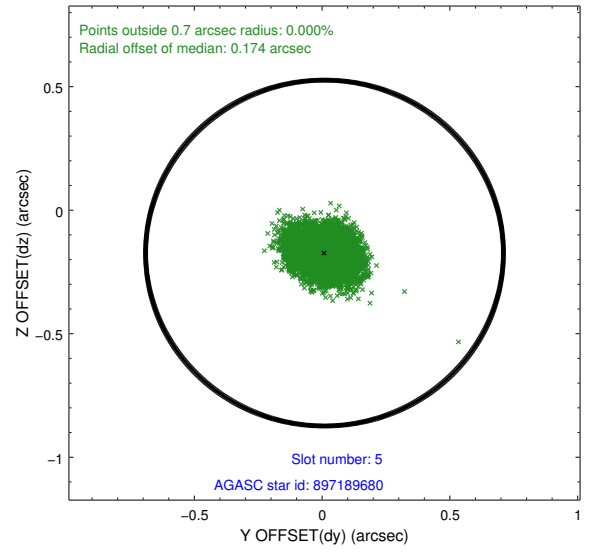
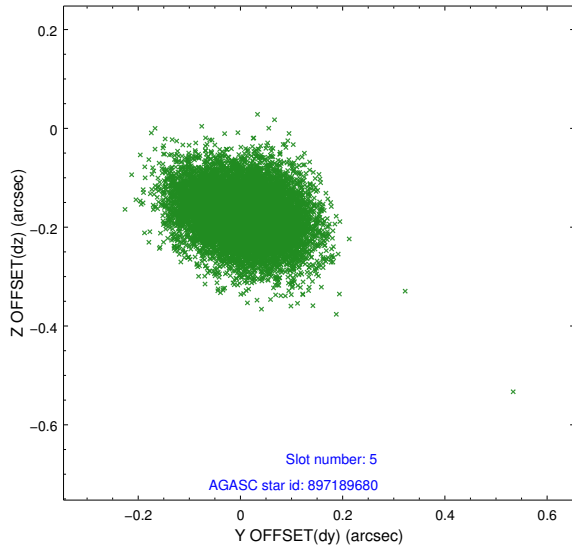
### 2.4.1 Slot 3



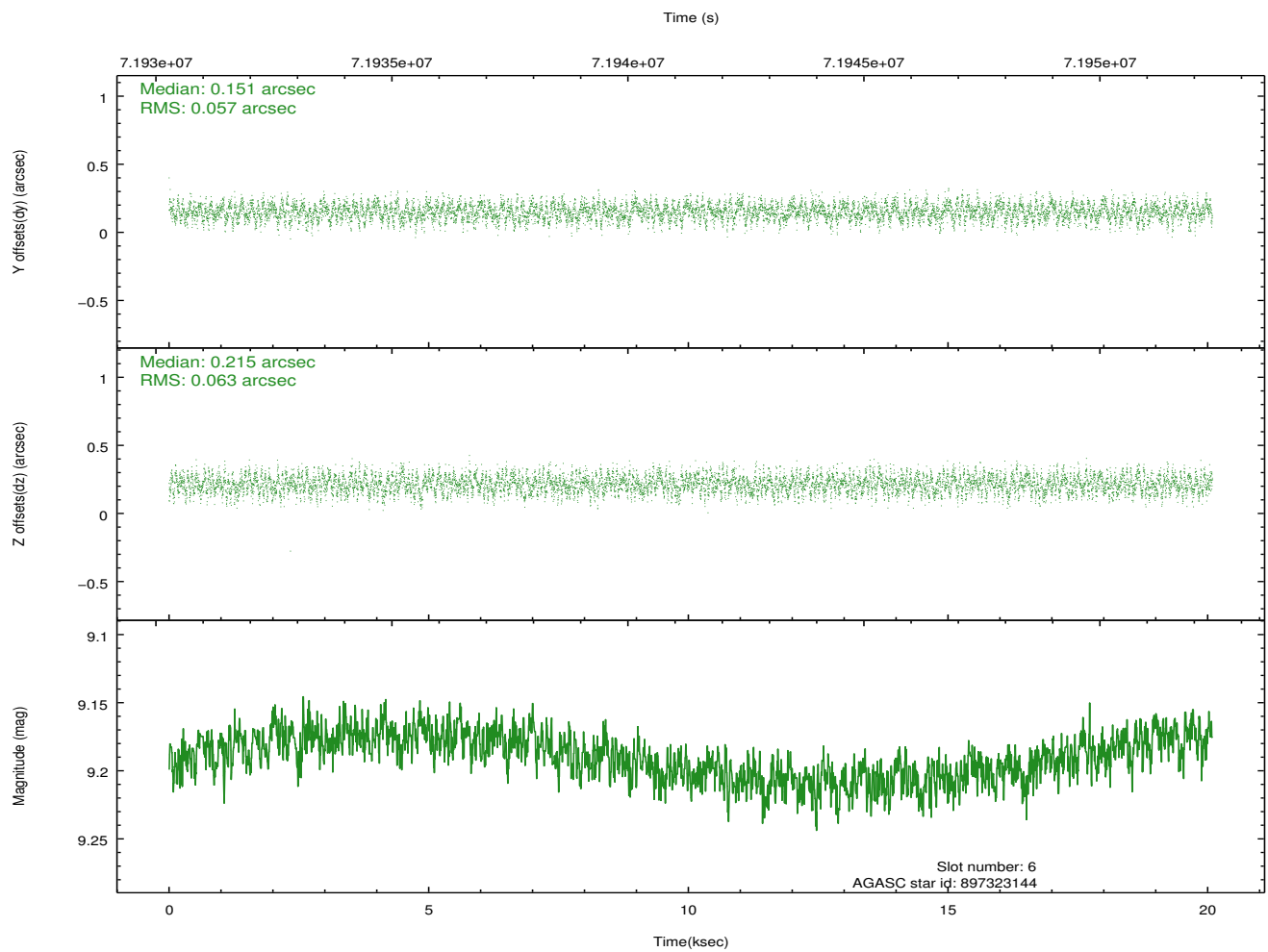
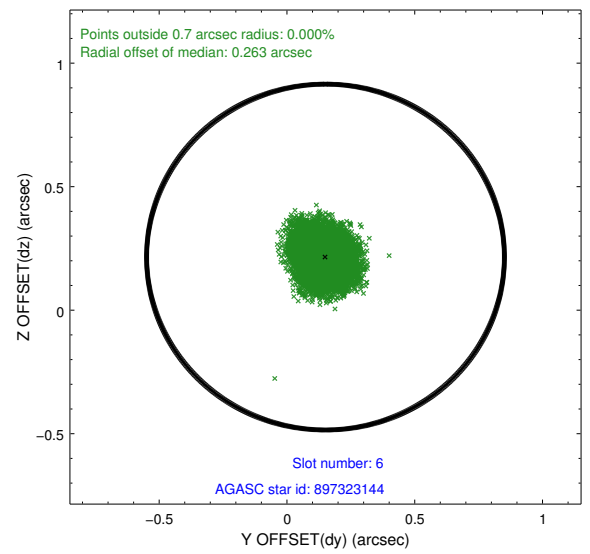
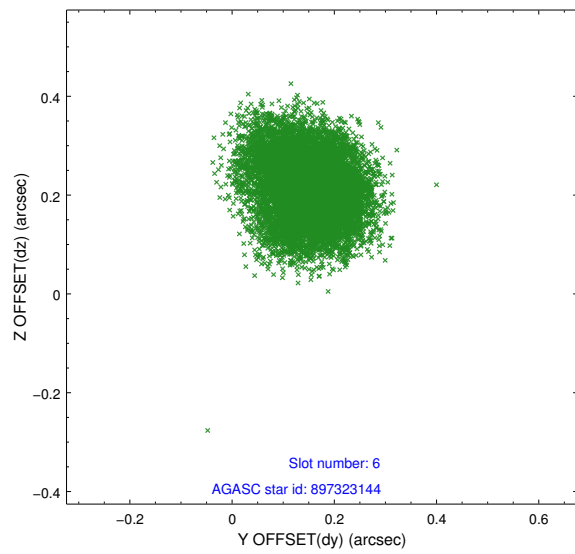
### 2.4.2 Slot 4



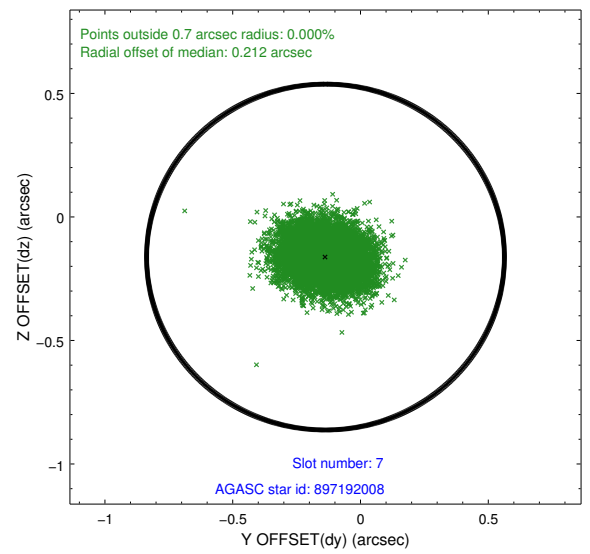
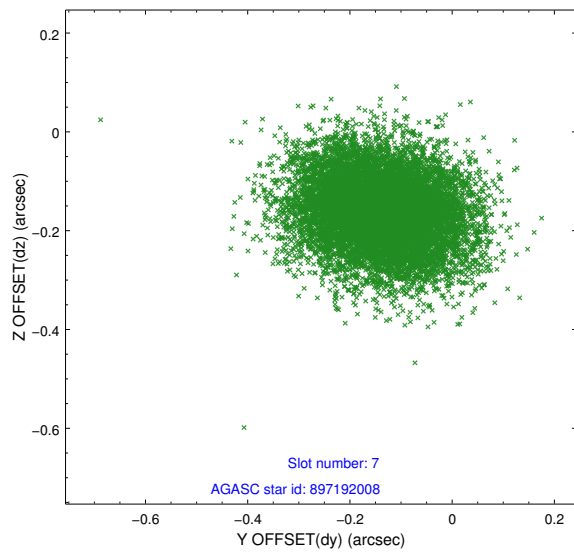
### 2.4.3 Slot 5



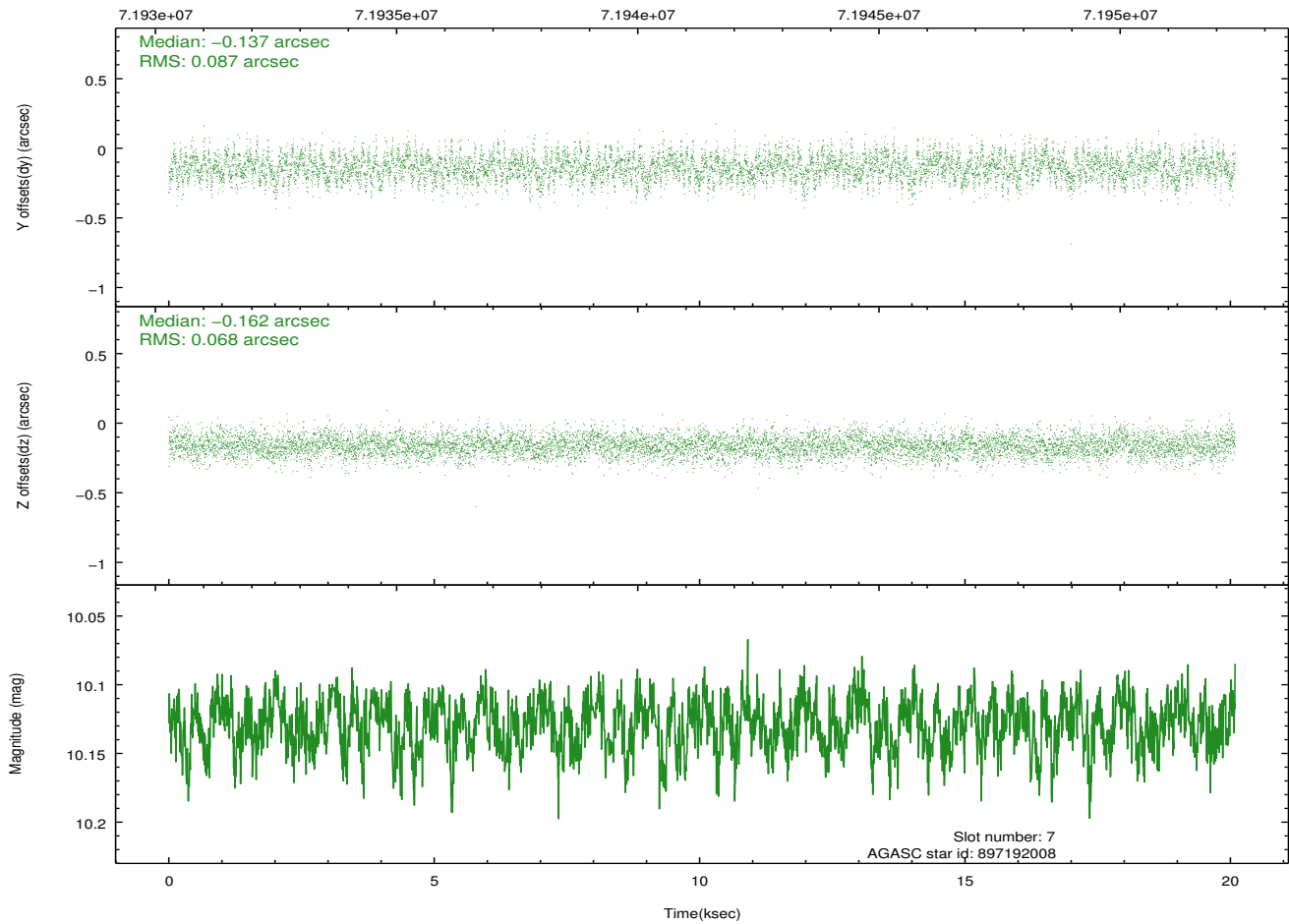
## 2.4.4 Slot 6



## 2.4.5 Slot 7

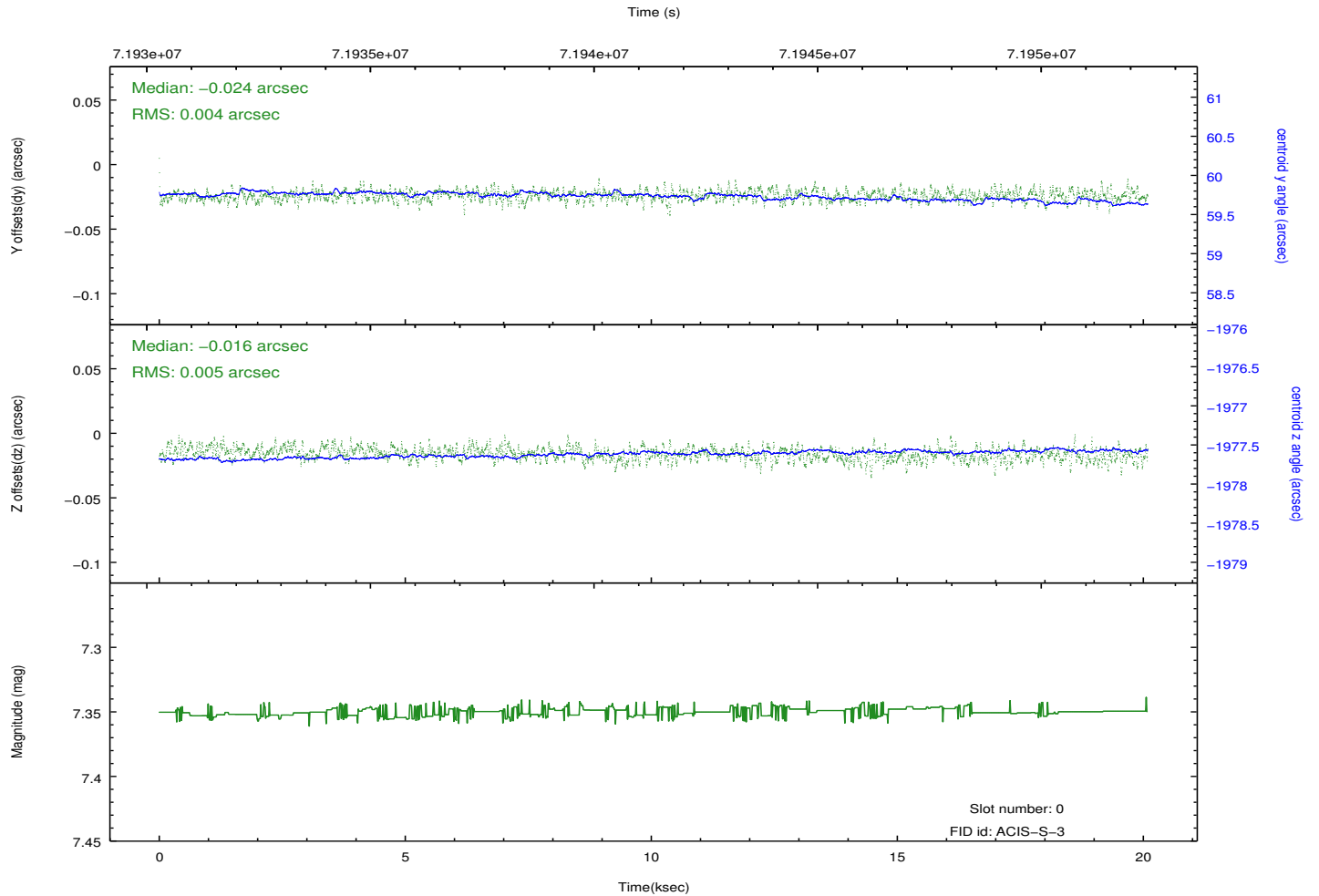
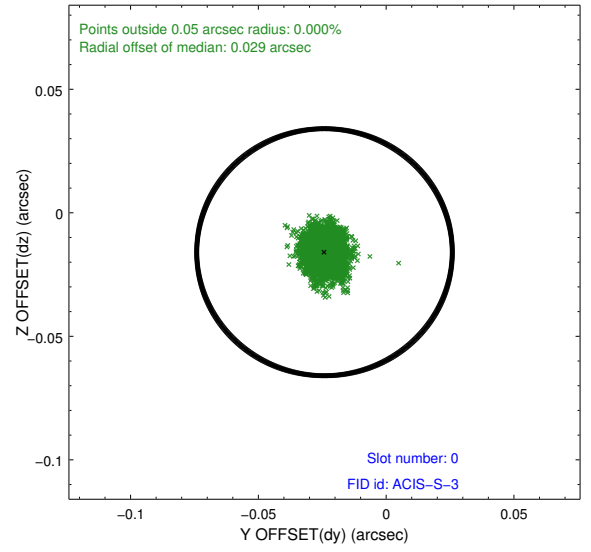
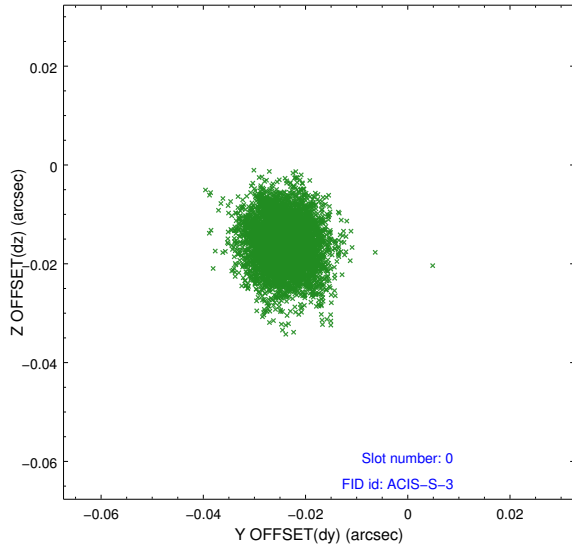


Time (s)

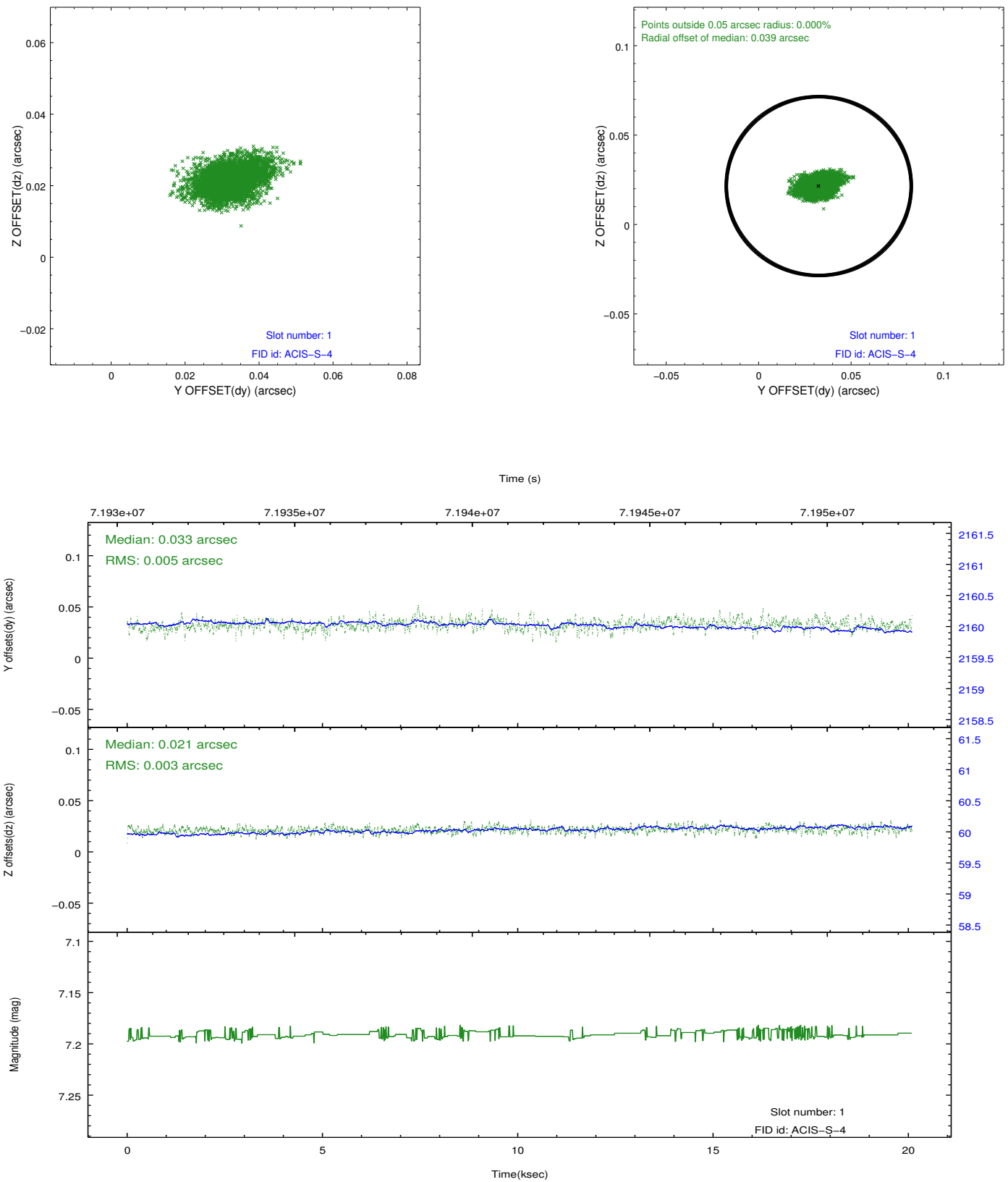


## 2.5 FID Slots

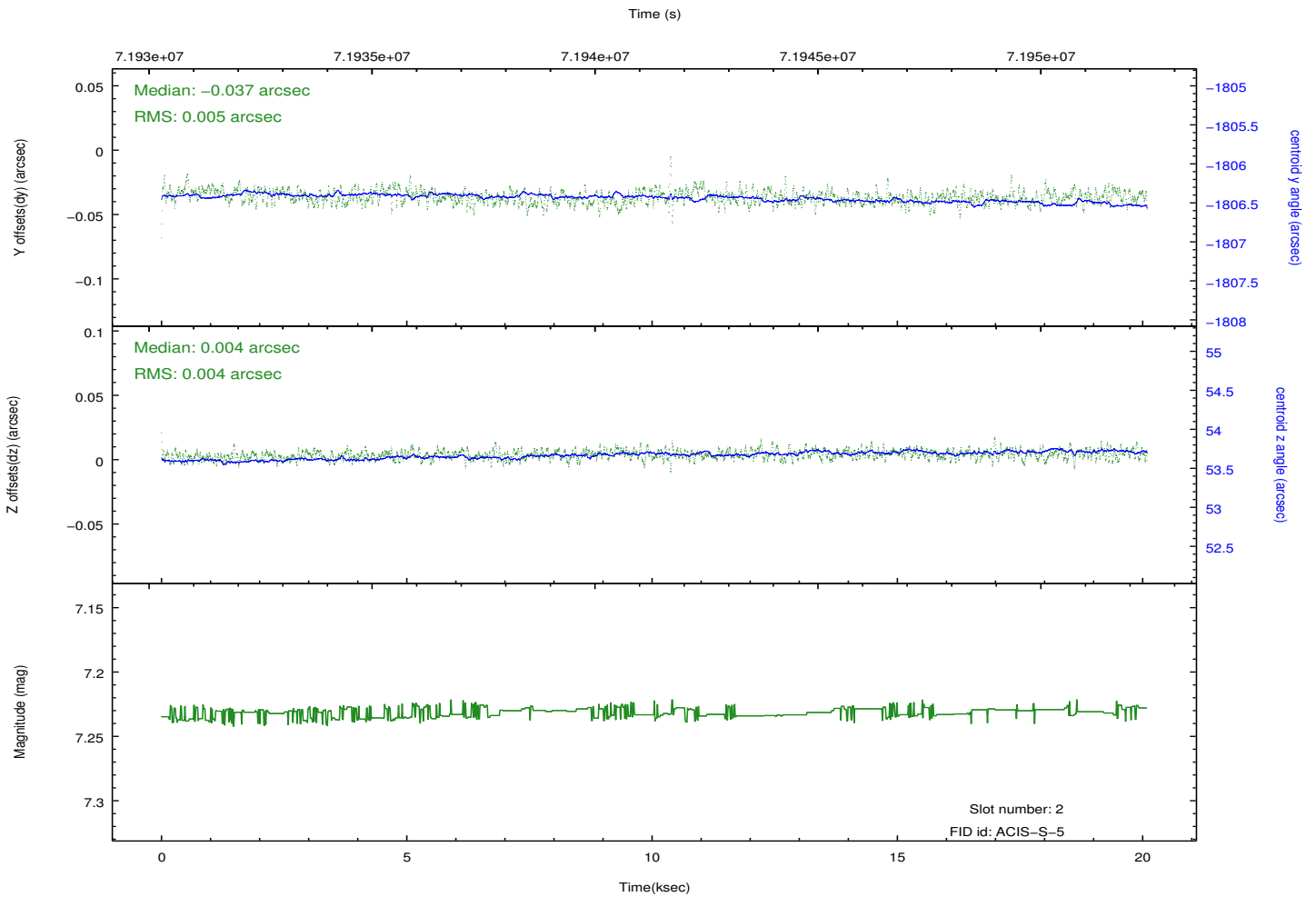
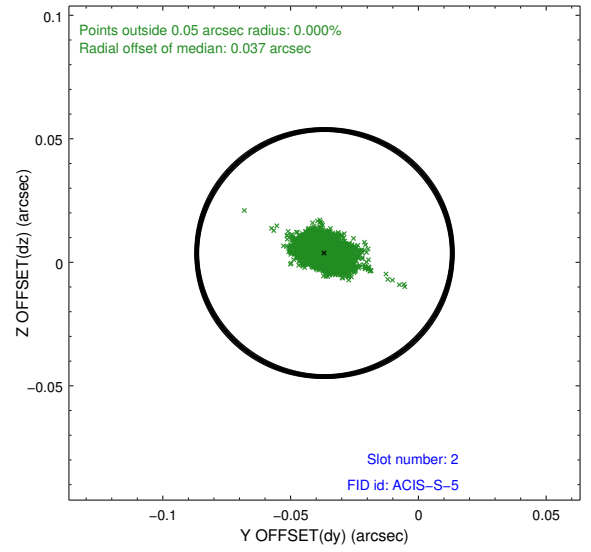
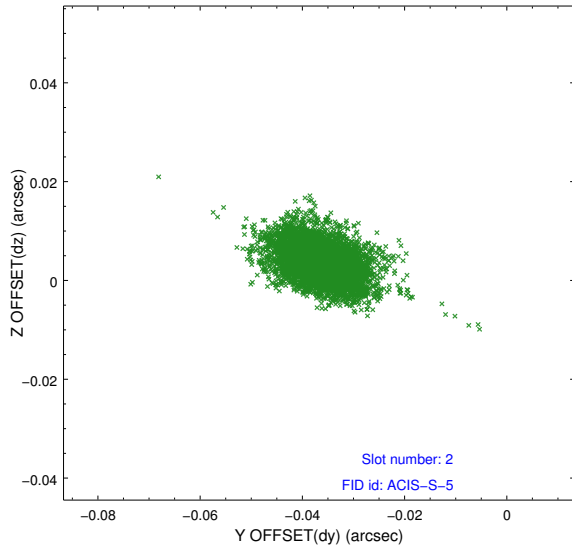
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.08.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.932

## A.2 Comments

Roll constraint met.