

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9867 - L2 Version 2  
Chandra X-Ray Center

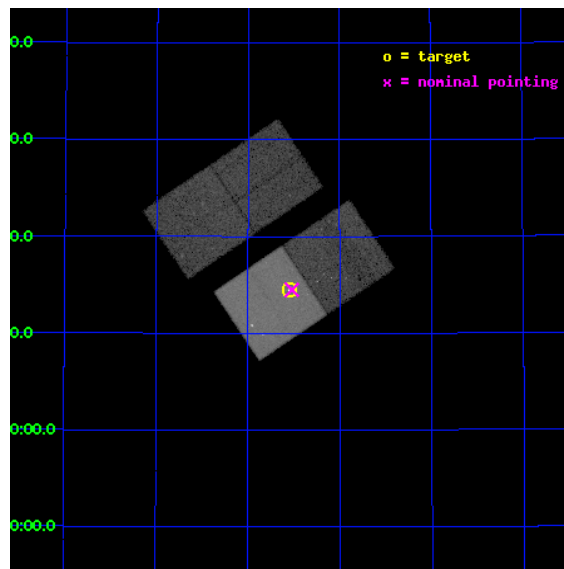
L2 Processing Date : May 16 2012

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# 1 Front

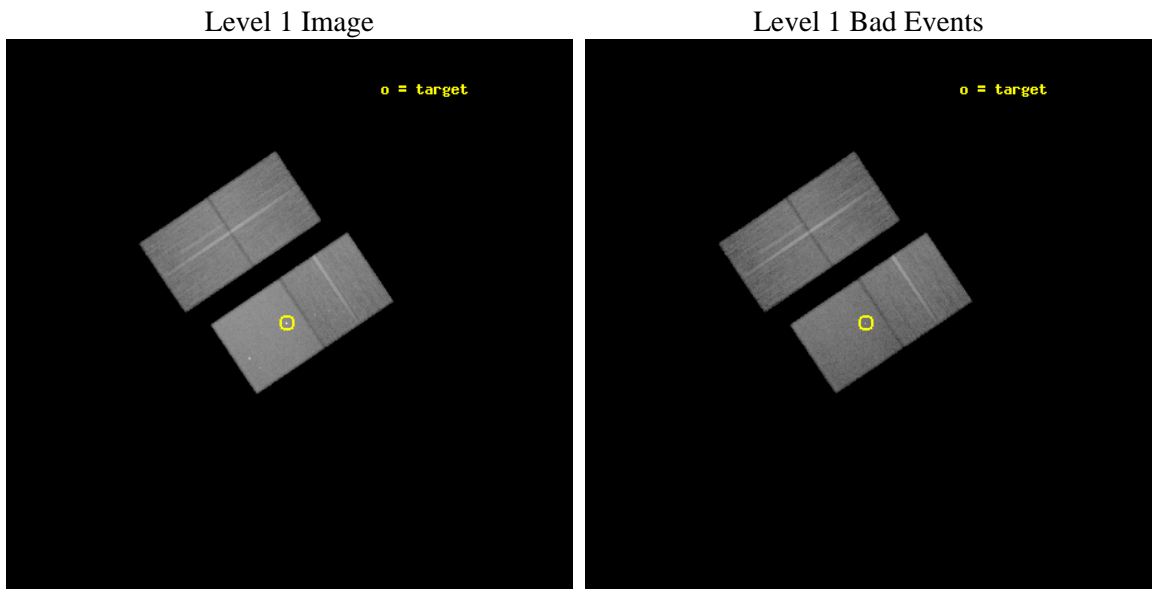
seq_num	300228	Sequence number
obs_id	9867	Observation id
title	X-ray Jets Activity in the Symbiotic System CH Cyg	Proposal title
observer	DR. MARGARITA KAROVSKA	Principal investigator
object	CH Cyg	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	291.137783	Observer's specified target RA [deg]
dec_targ	50.241425	Observer's specified target Dec [deg]
ra_nom	291.1302370698	Nominal RA [deg]
dec_nom	50.241616932775	Nominal Dec [deg]
roll_nom	146.16243266325	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25184.400193691	Sum of GTIs [s]
livetime	24855.347464675	Livetime [s]
ontime2	25181.259233296	Sum of GTIs [s]
ontime3	25184.400193691	Sum of GTIs [s]
ontime6	25184.400193691	Sum of GTIs [s]
ontime7	25184.400193691	Sum of GTIs [s]
l2events	220879	Number of level 2 events



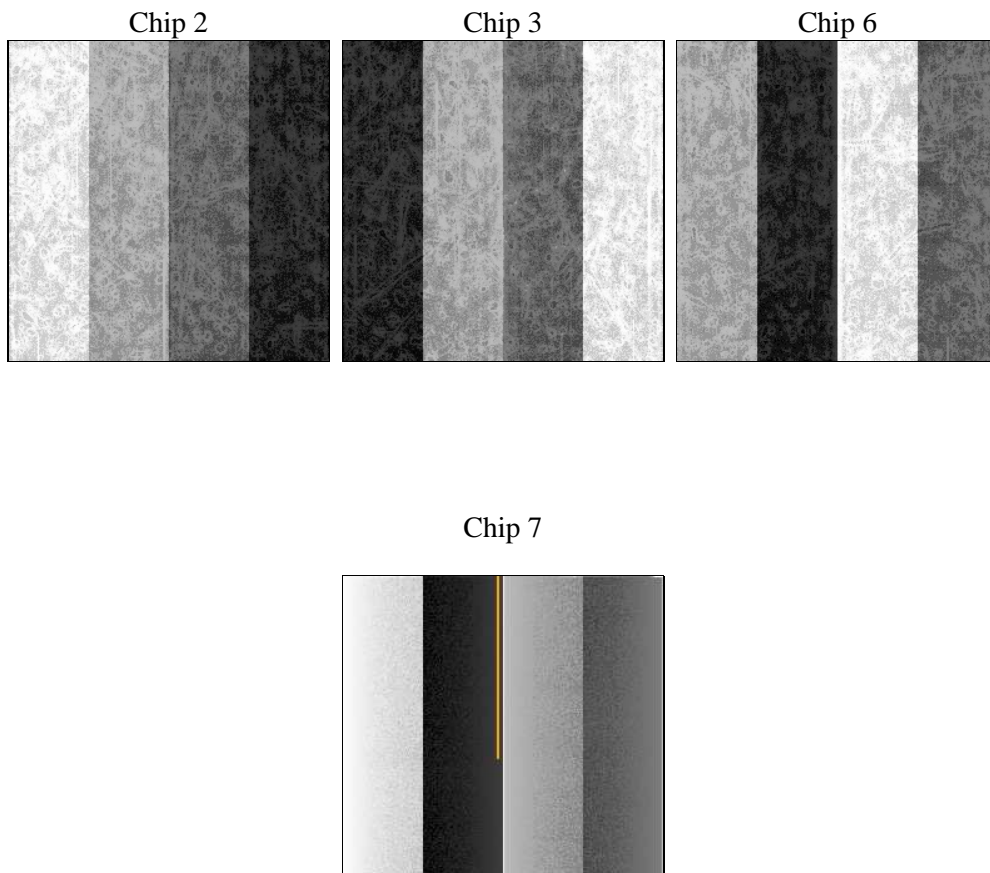
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	25184.400193691	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	25181.259233296	Sum of GTIs [s]
date	2012-05-16T03:53:46	Date and time of file creation	ontime3	25184.400193691	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	25184.400193691	Sum of GTIs [s]
			ontime7	25184.400193691	Sum of GTIs [s]
			l1events	1060320	Number of level 1 events

### 2.1.4 Events

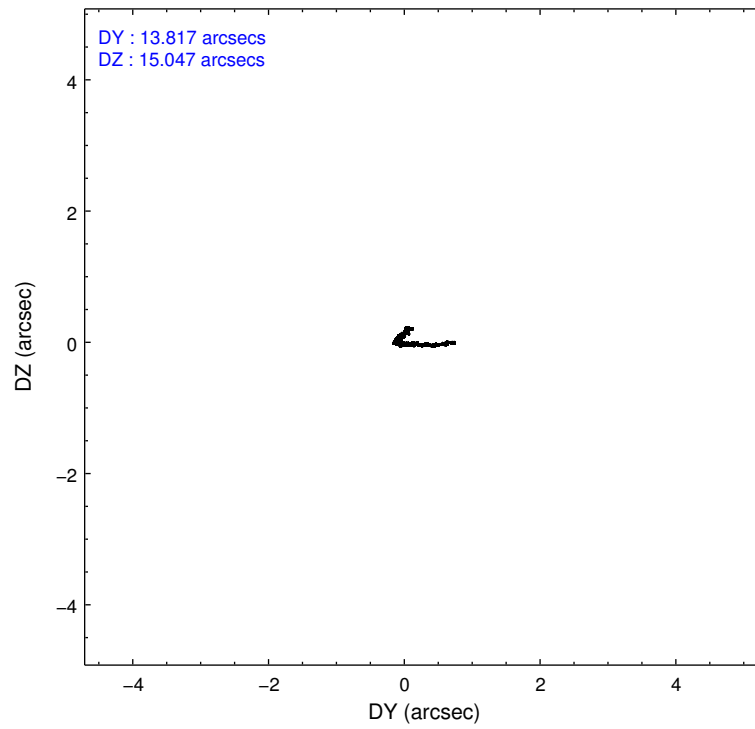
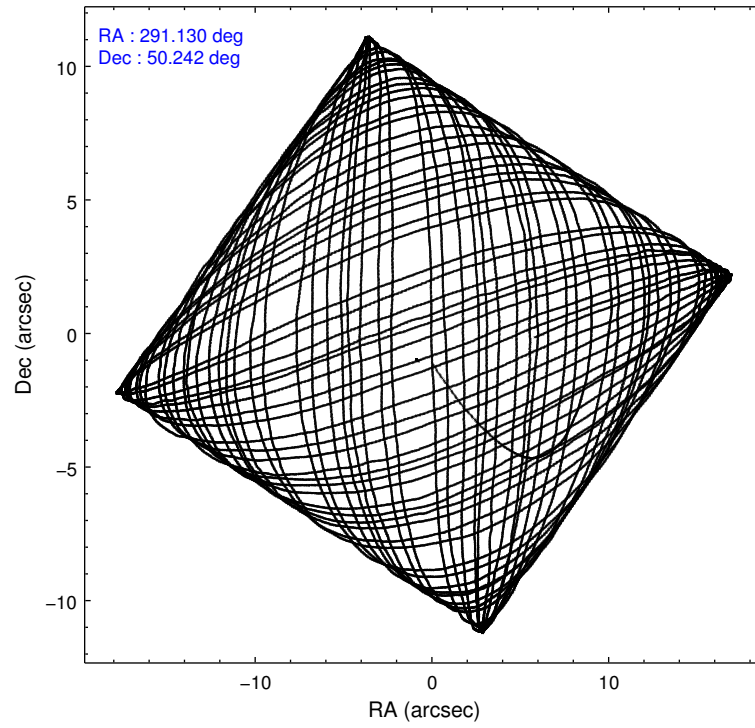
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	236651	234017	245107	344545
rejected events	207829	204997	215430	197850
rejected %	87%	87%	87%	57%

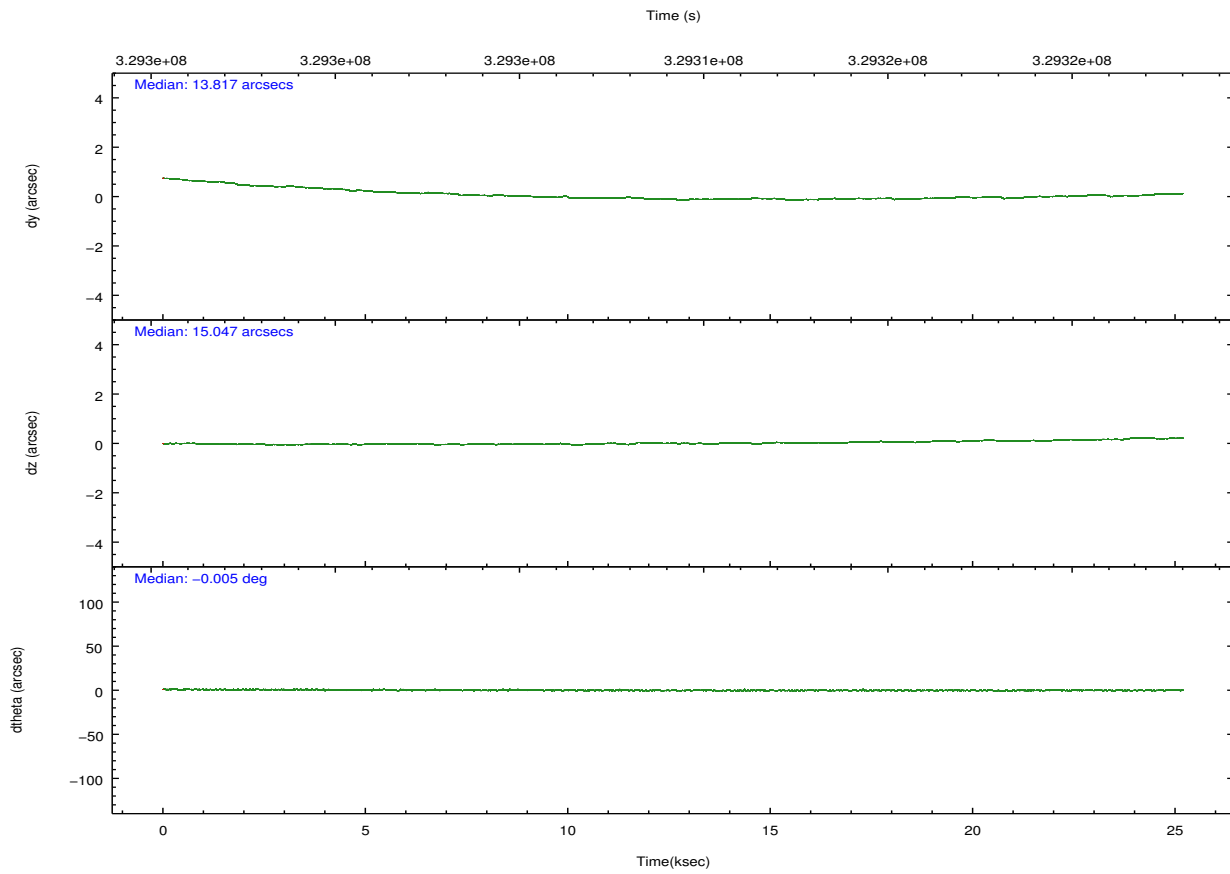
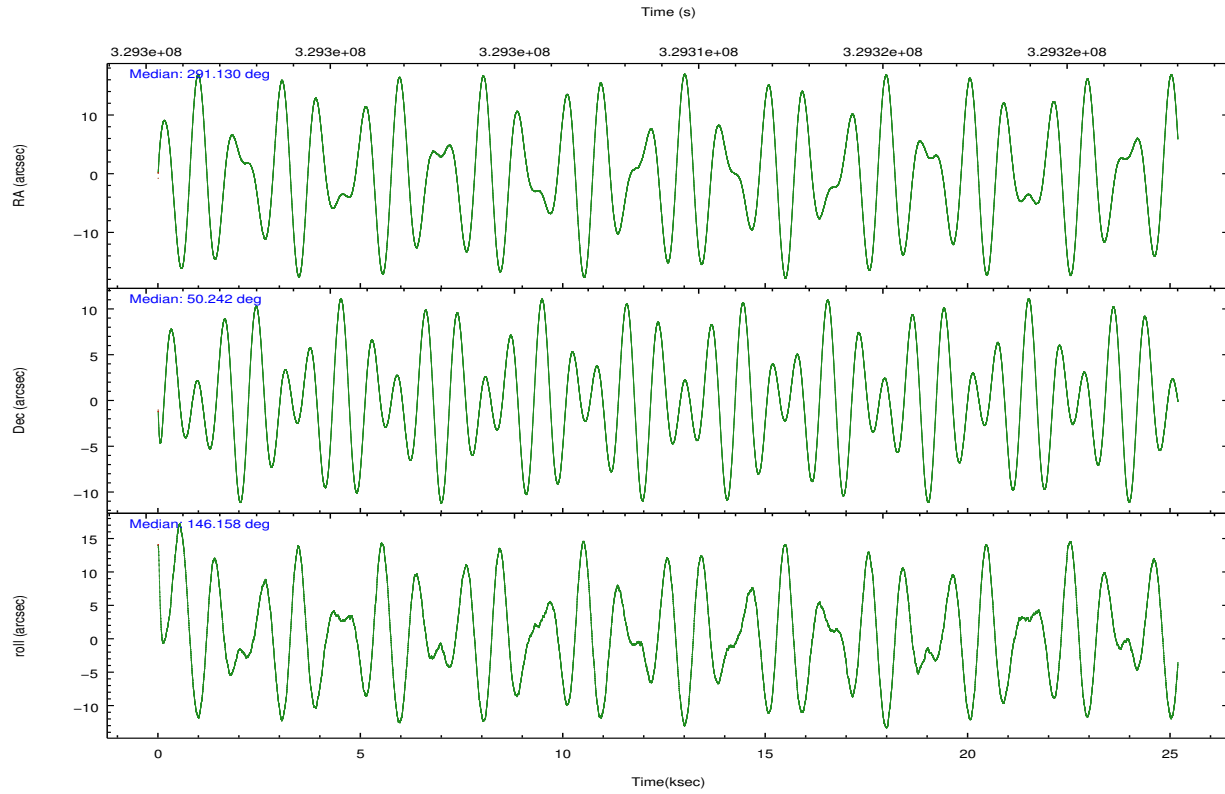
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	12677	12712	11835	14619
	5%	5%	4%	4%
grade 1 events	155	175	136	439
	0%	0%	0%	0%
grade 2 events	6177	5652	6485	30392
	2%	2%	2%	8%
grade 3 events	2622	2743	2779	12670
	1%	1%	1%	3%
grade 4 events	2572	2791	2703	12380
	1%	1%	1%	3%
grade 5 events	9497	11287	11609	31881
	4%	4%	4%	9%
grade 6 events	4899	5255	6013	77250
	2%	2%	2%	22%
grade 7 events	198052	193402	203547	164914
	83%	82%	83%	47%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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
[deg] Pointing RA	291.172896	291.1302370697998	Subarray requested	NONE	NONE
[deg] Pointing Dec	50.240139	50.24161693277534	Alternating exposures requested	N	N
[deg] Pointing Roll	145.973003	146.1624326632488	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	329296771.184000	329295781.74717			
Observation start date	2008-06-08T07:18:26	2008-06-08T07:03:01			
[s] Observation end time (MET)	329321771.184000	329323049.311			
Observation end date	2008-06-08T14:15:06	2008-06-08T14:37:29			
Read mode	TIMED	TIMED			

## 2.3 Aspect



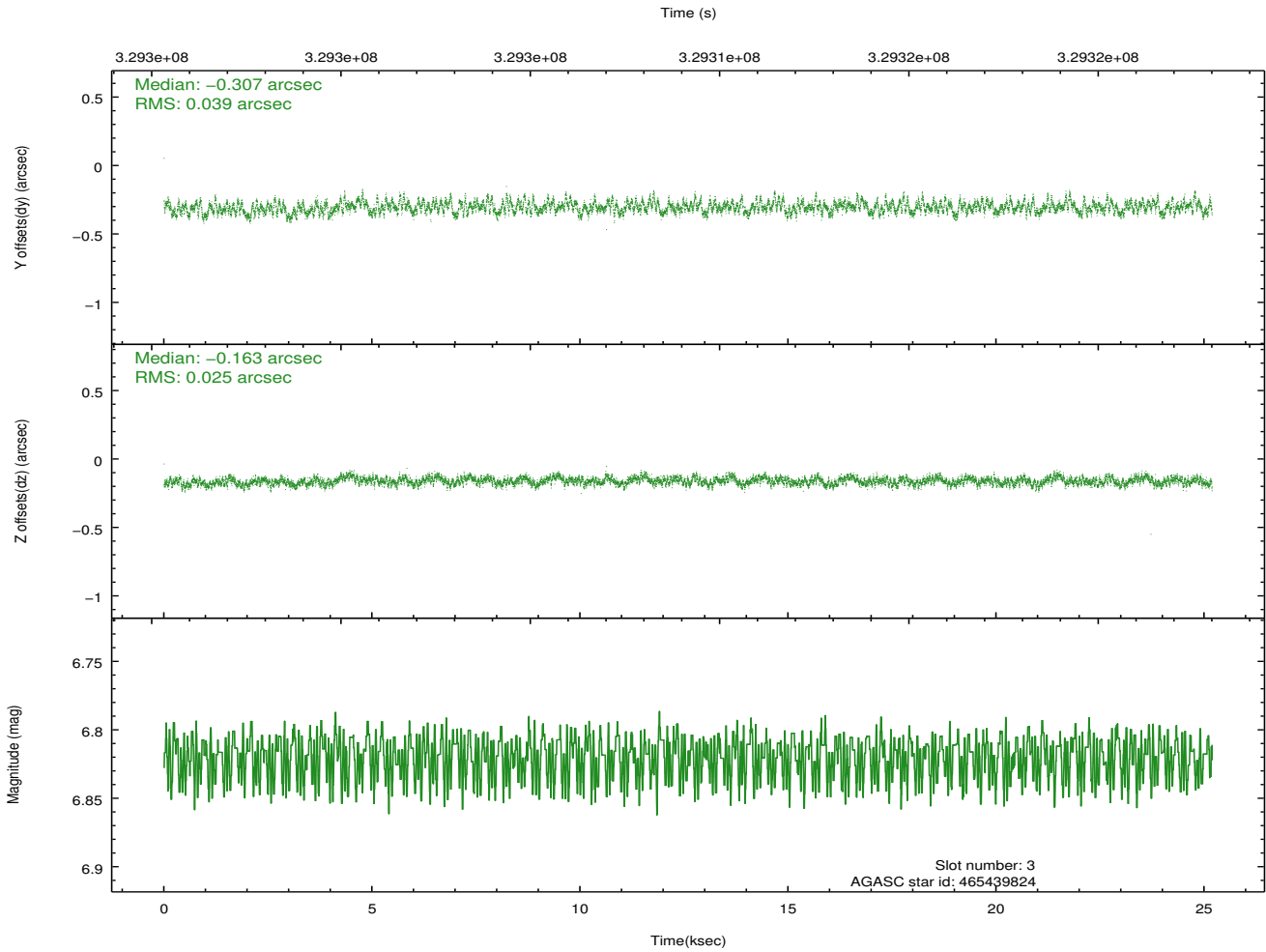
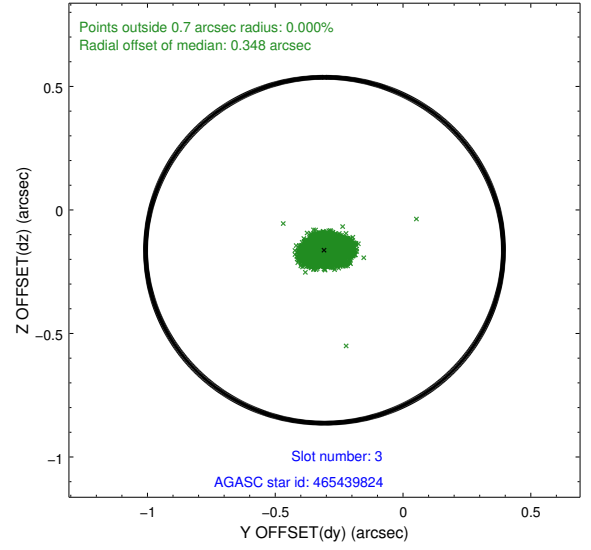
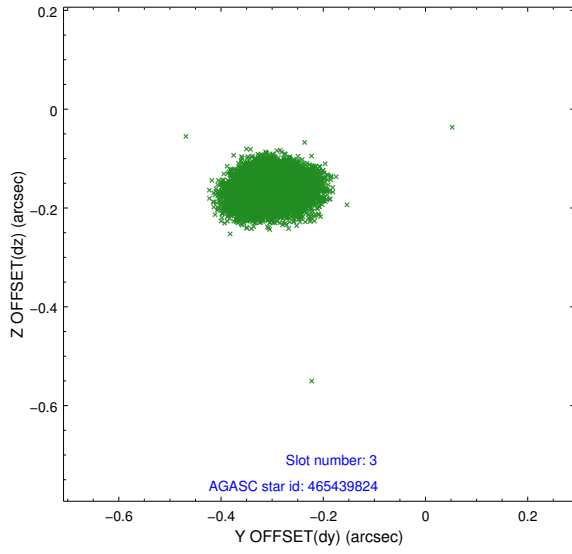


### Slot Statistics

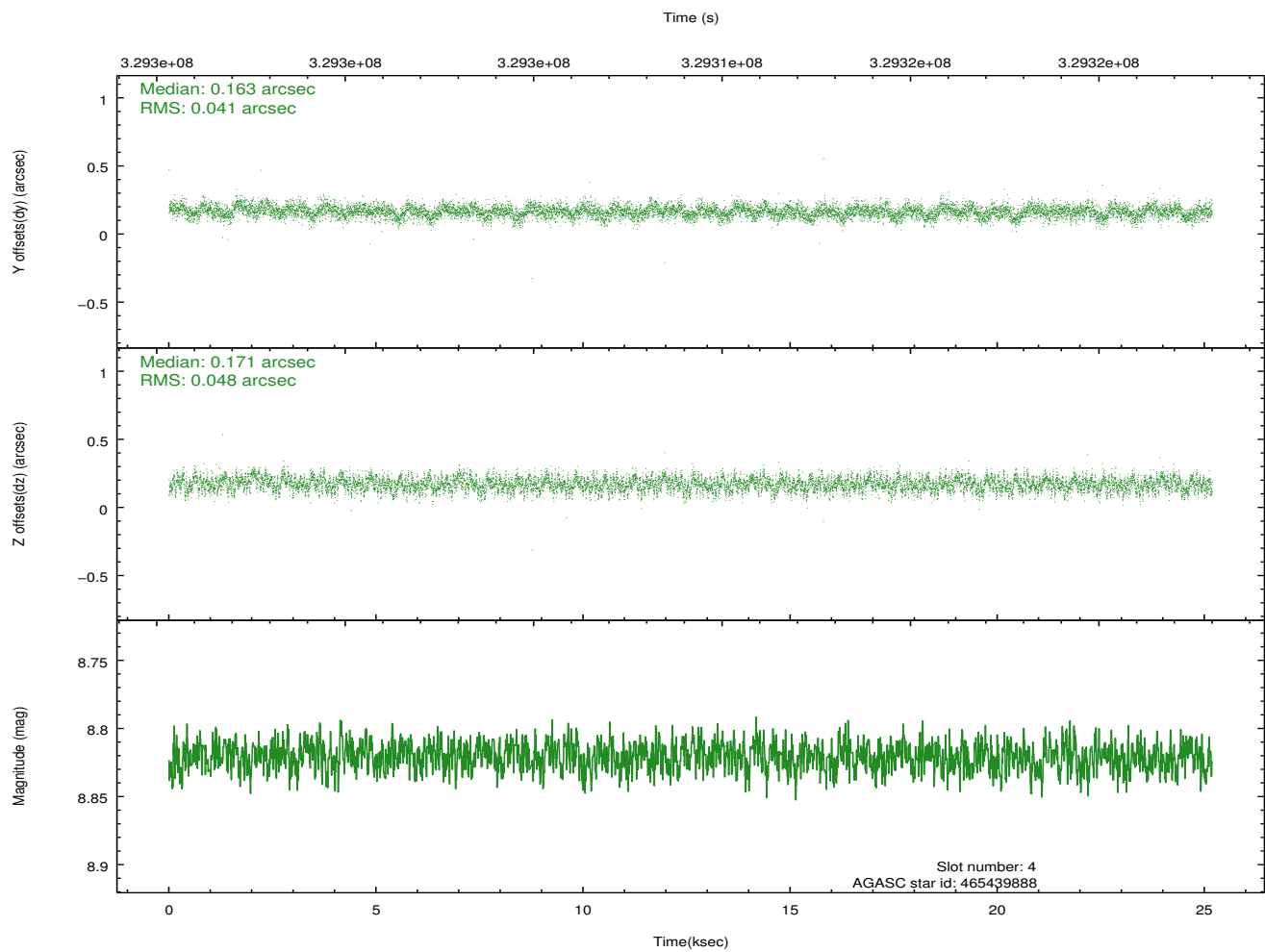
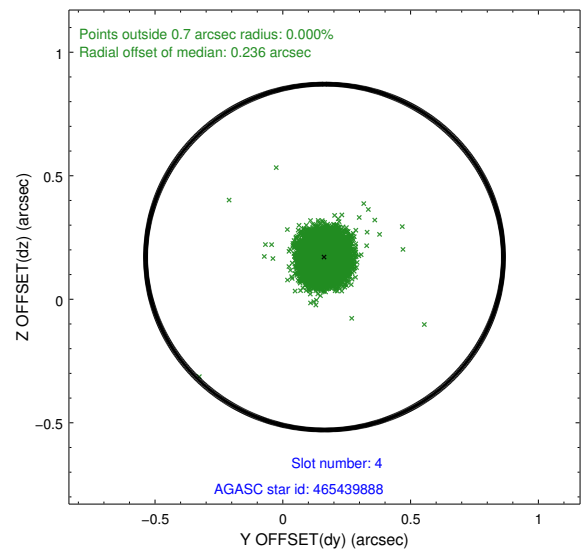
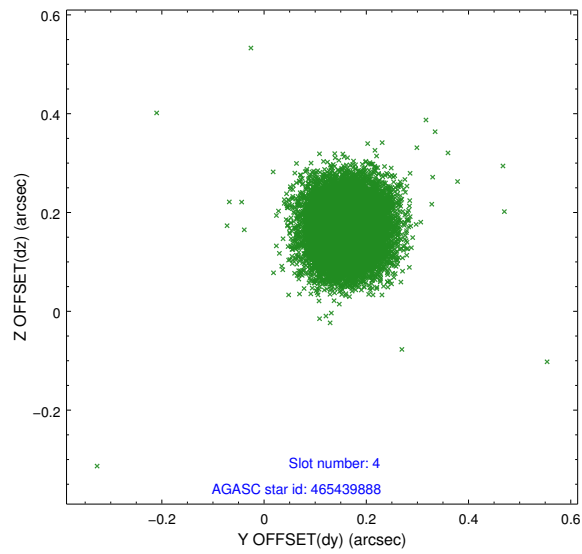
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.87	6143	-0.067	-0.009	0.009	0.016	0.000000	0.000000	-766.88	-1736.47
1	FID	ACIS-S-4	6.96	6144	0.167	0.035	0.008	0.016	0.000000	0.000000	2146.55	171.97
2	FID	ACIS-S-5	6.98	6144	-0.133	-0.017	0.008	0.020	0.000000	0.000000	-1819.66	165.67
3	GUIDE	465439824	6.82	12285	-0.307	-0.163	0.049	0.080	290.131117	50.340225	2194.47	1026.91
4	GUIDE	465439888	8.82	12283	0.163	0.171	0.067	0.108	291.753626	50.234695	-1115.71	-735.72
5	GUIDE	465447224	8.27	12285	0.201	0.099	0.056	0.092	291.830226	50.402668	-918.55	-1334.05
6	GUIDE	465451320	9.38	12279	0.046	-0.070	0.094	0.149	290.821054	49.774437	-259.19	1845.69
7	BAD	465456712	5.21	4096	-0.306	-0.113	0.052	0.078	291.137777	50.241433	69.50	41.86

## 2.4 Star Slots

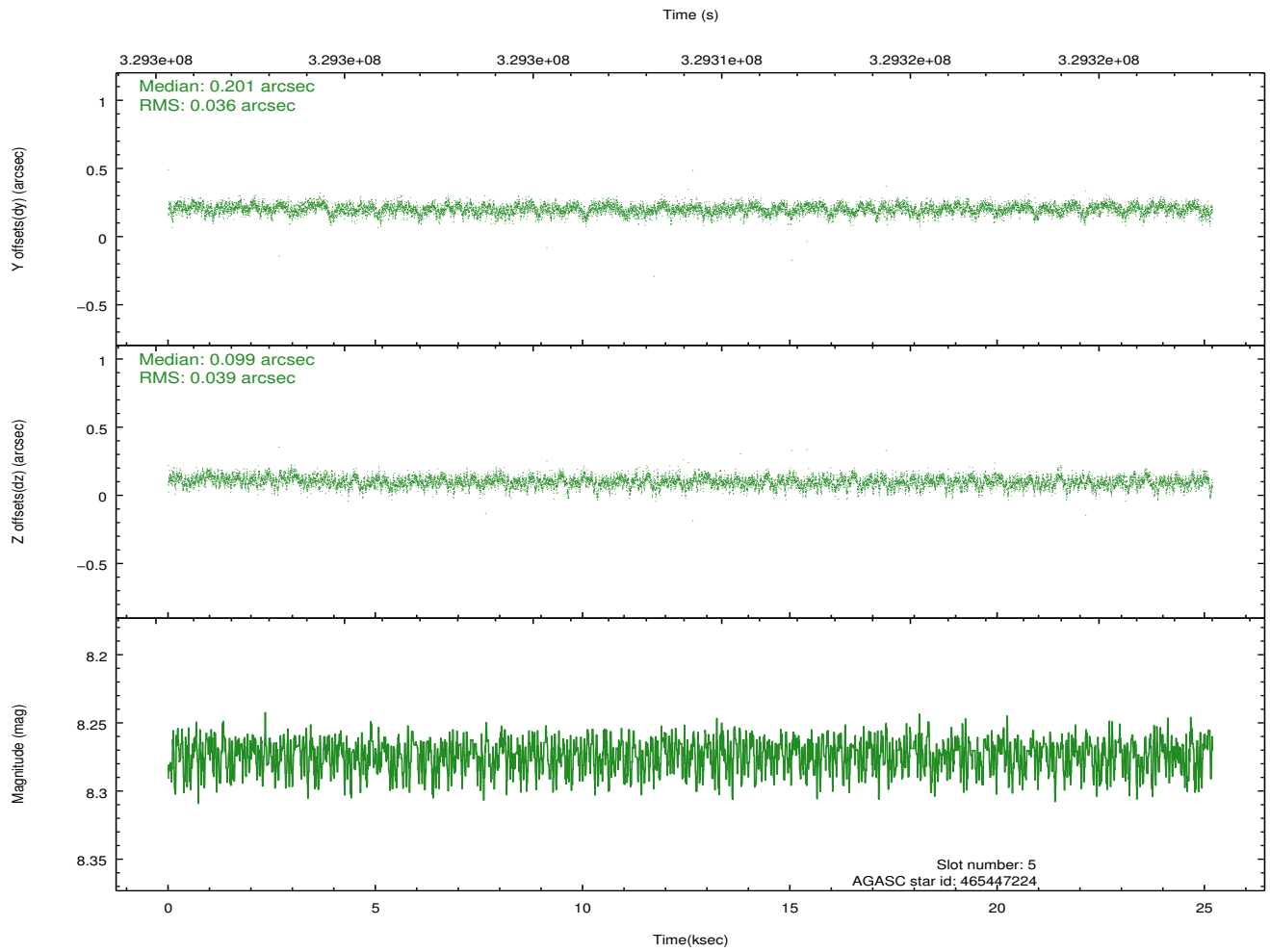
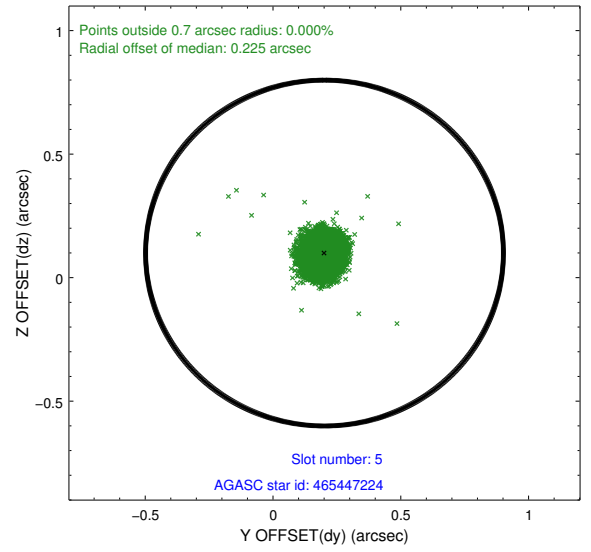
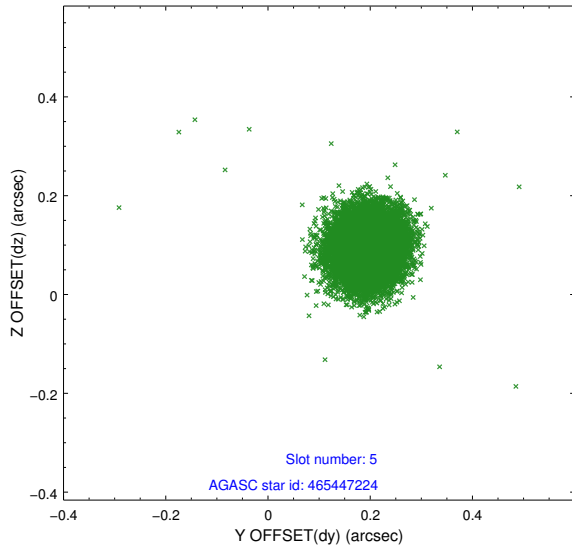
### 2.4.1 Slot 3



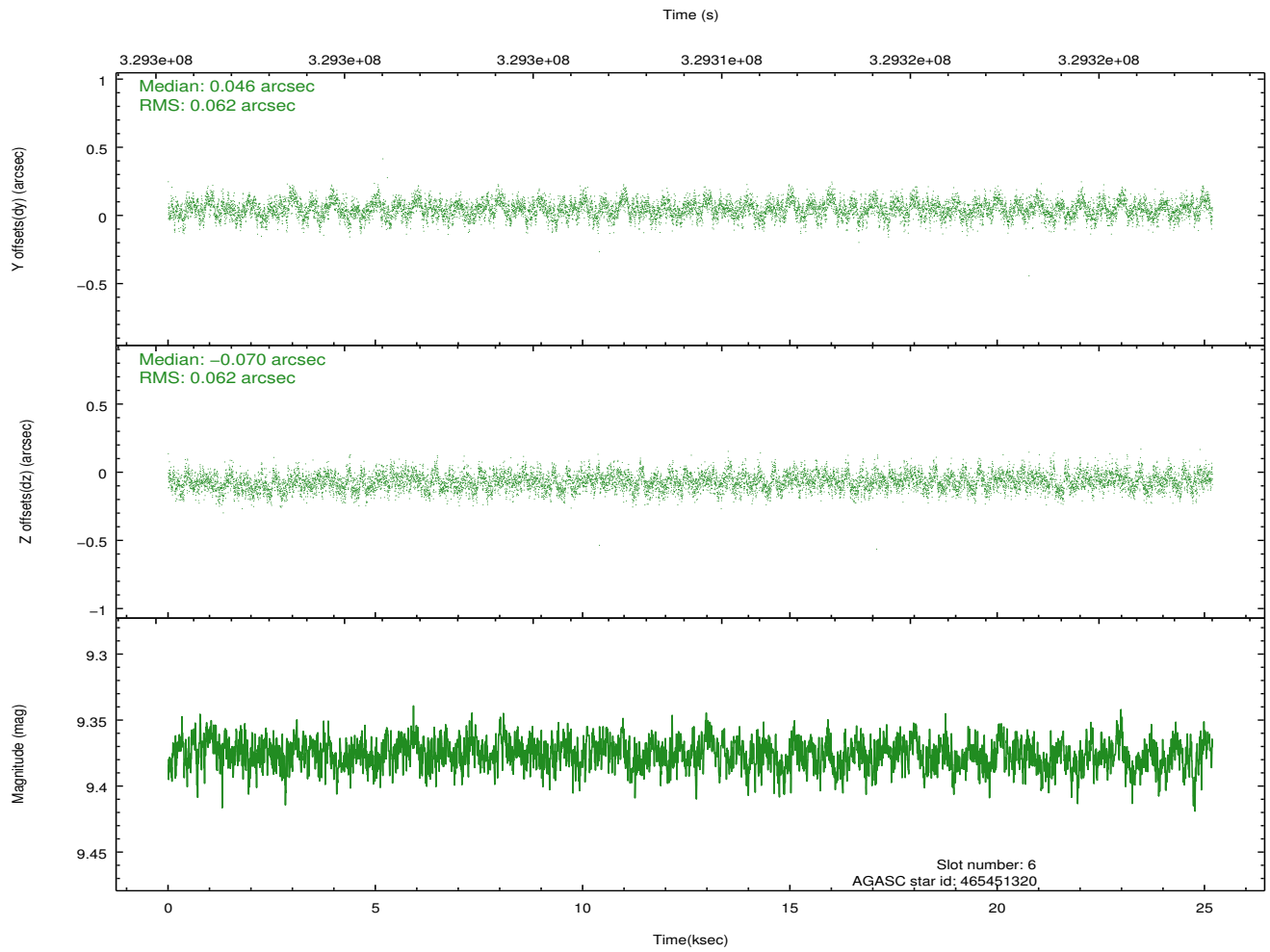
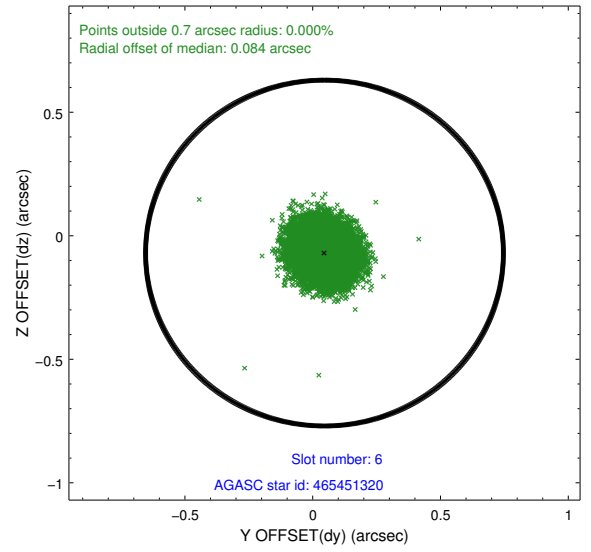
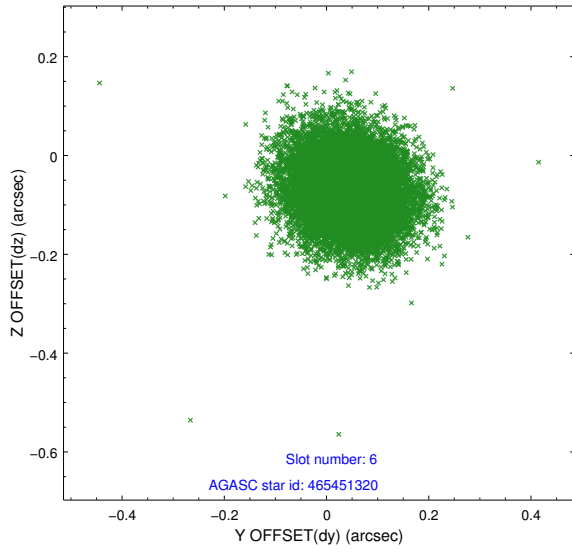
## 2.4.2 Slot 4



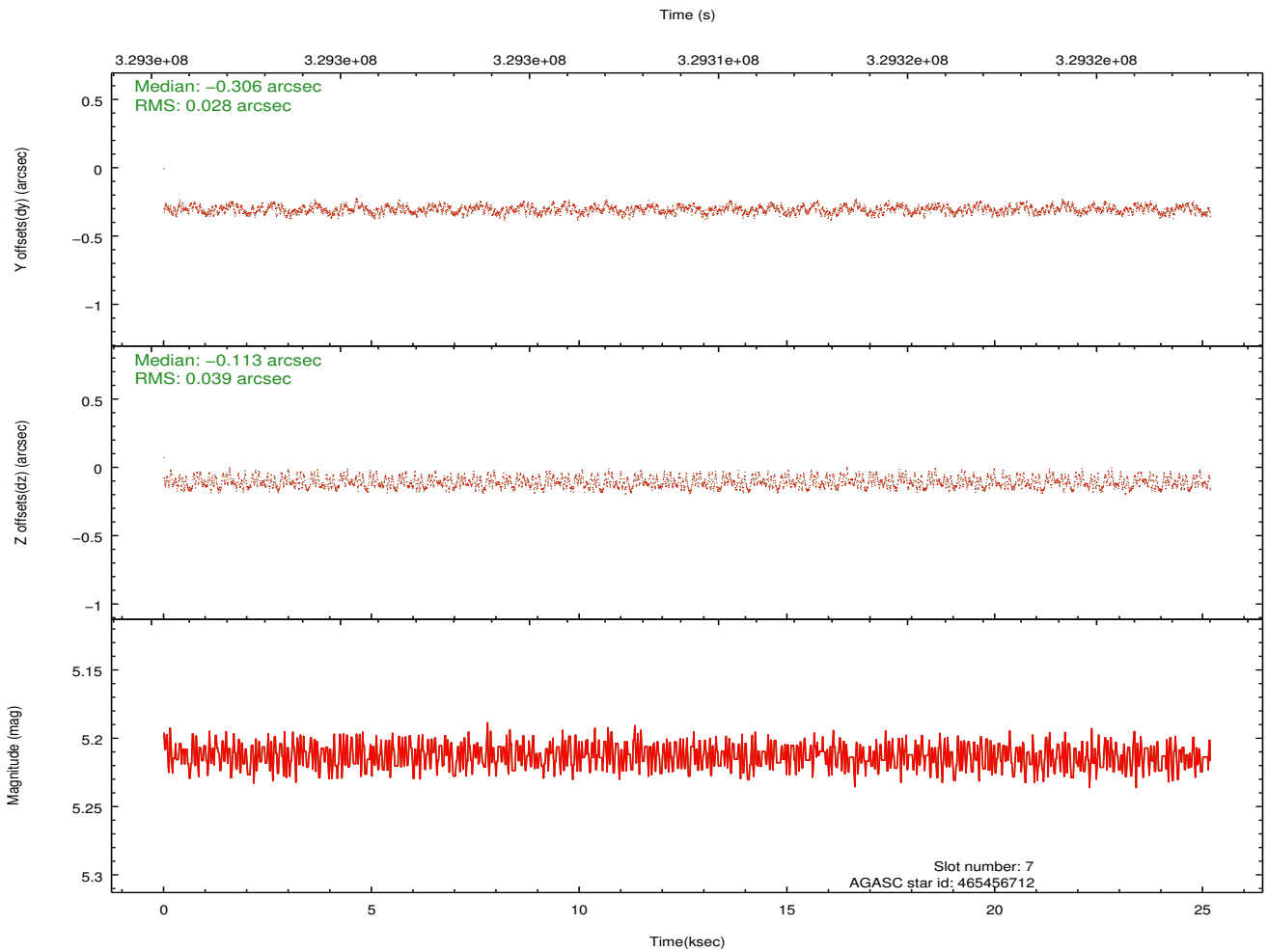
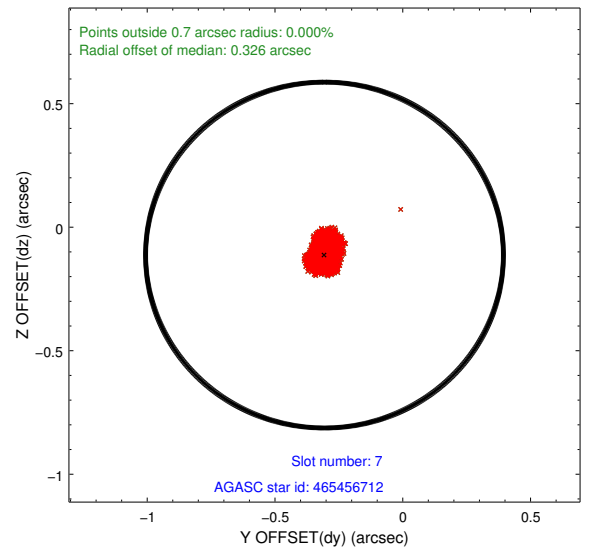
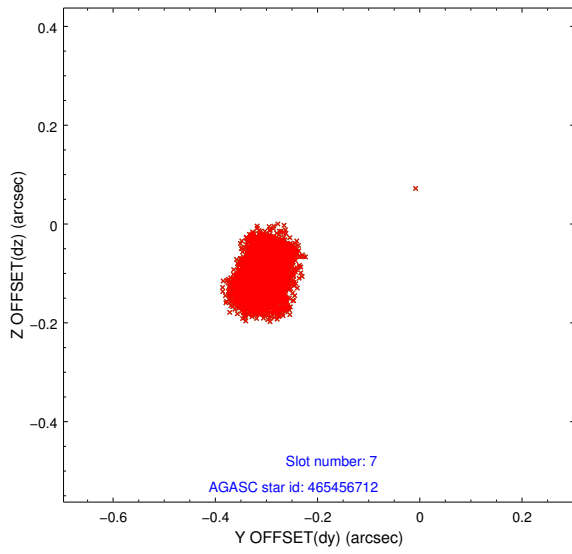
### 2.4.3 Slot 5



### 2.4.4 Slot 6

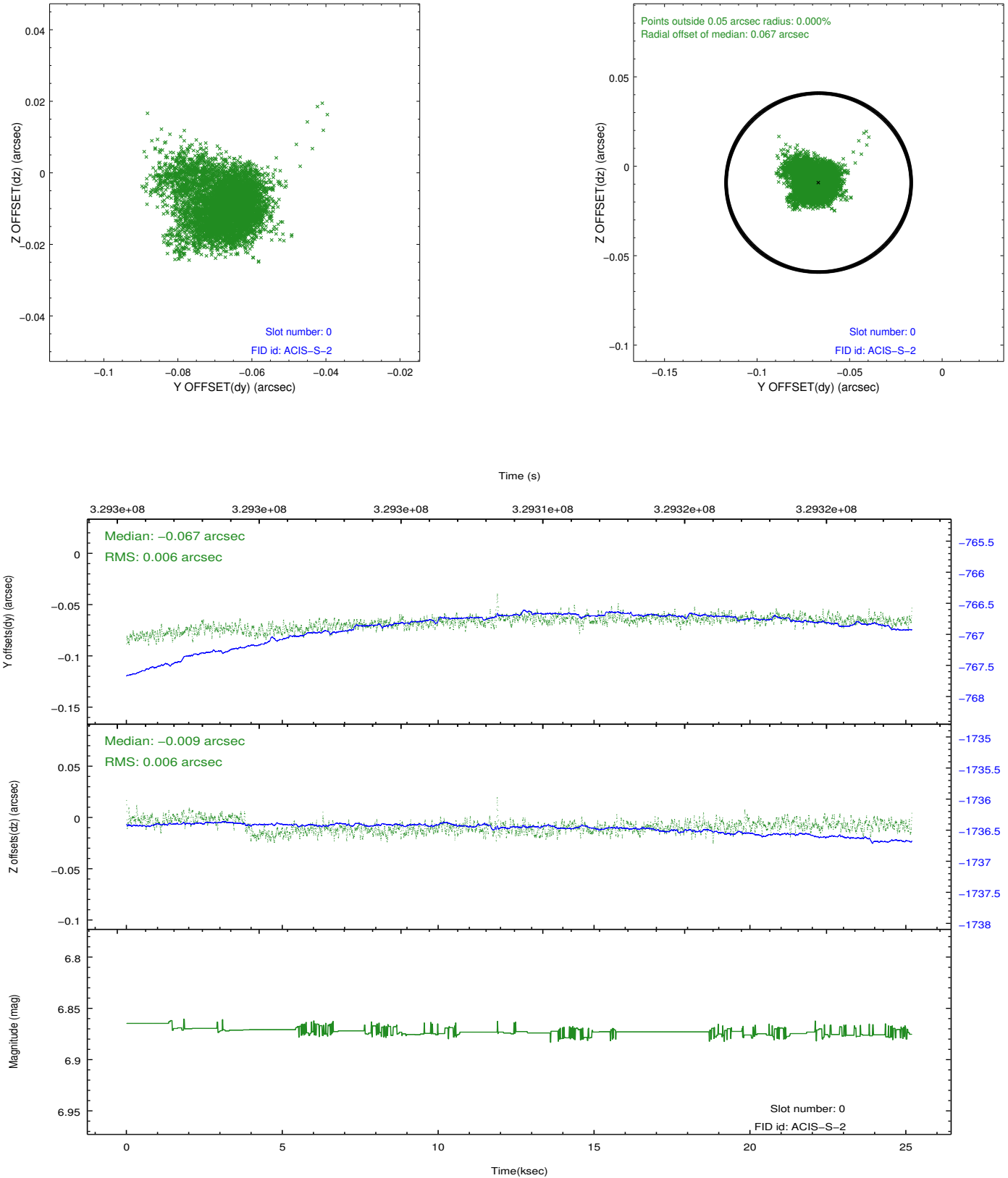


### 2.4.5 Slot 7

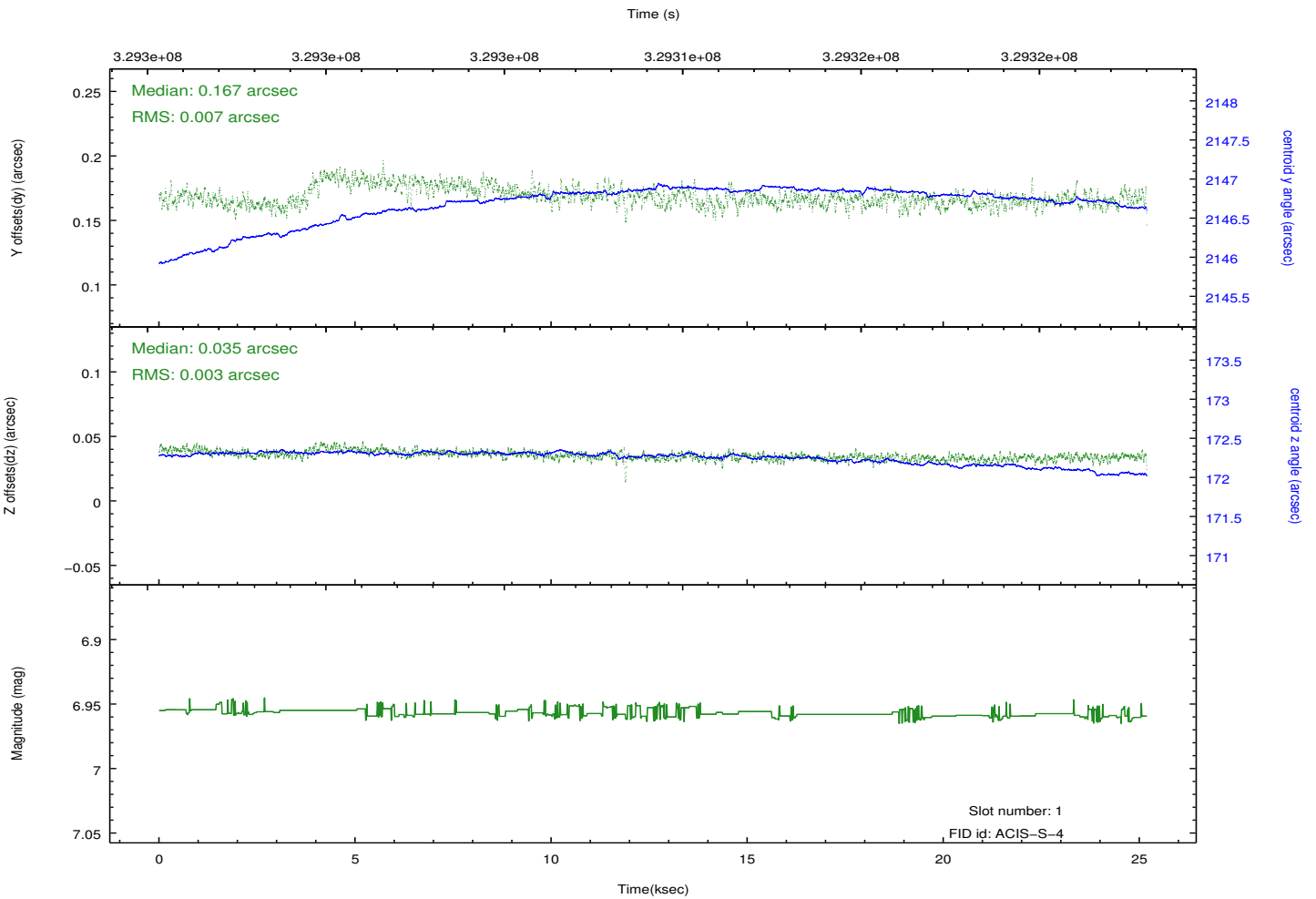
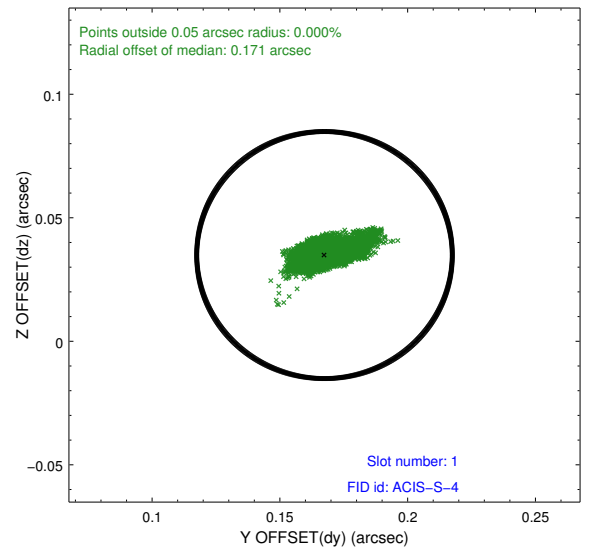
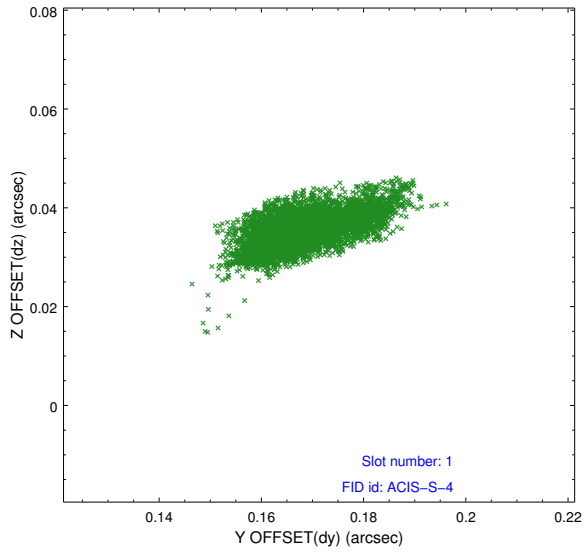


## 2.5 FID Slots

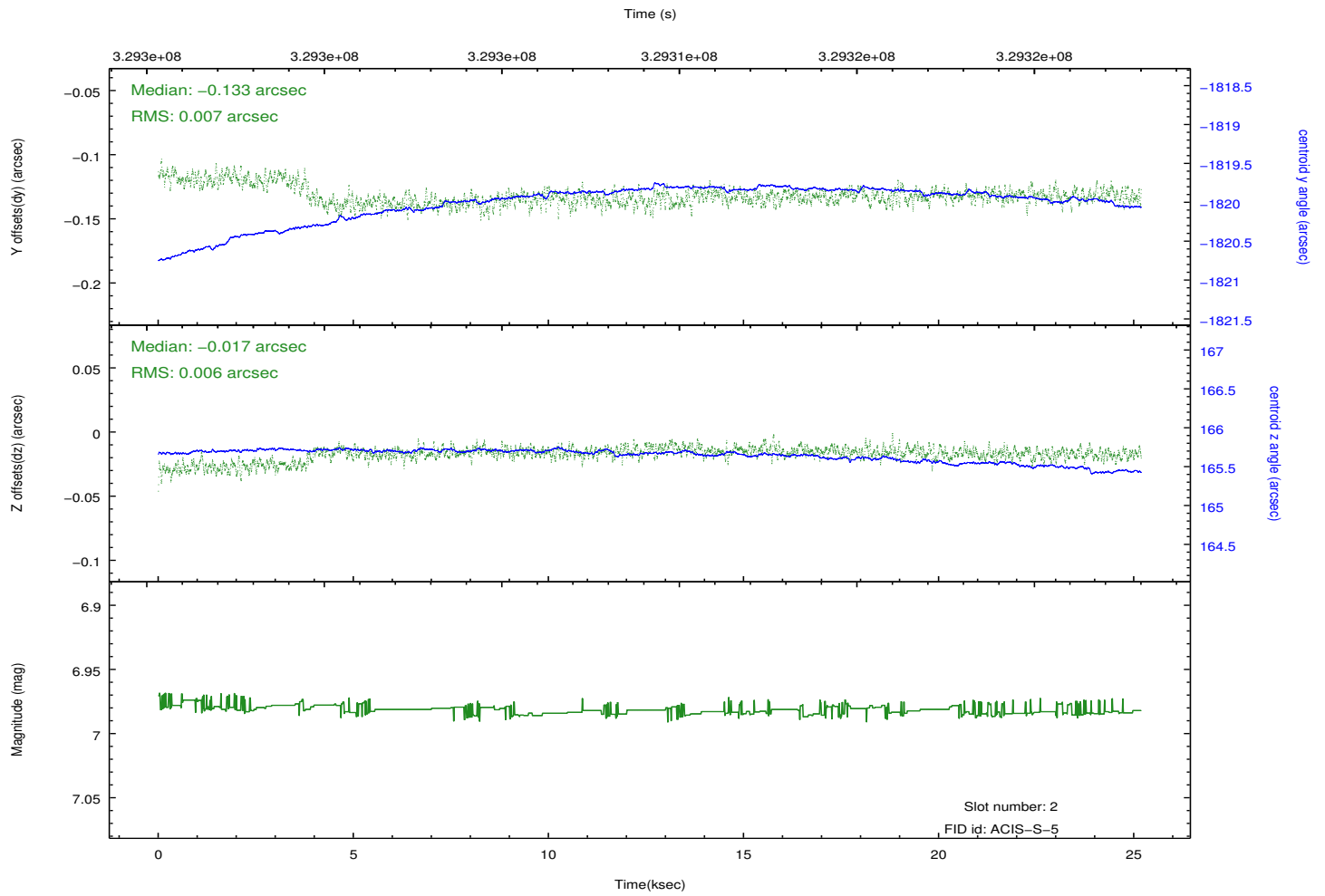
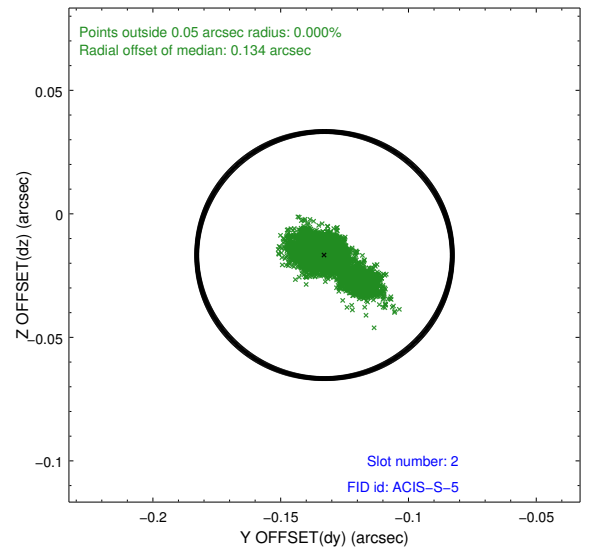
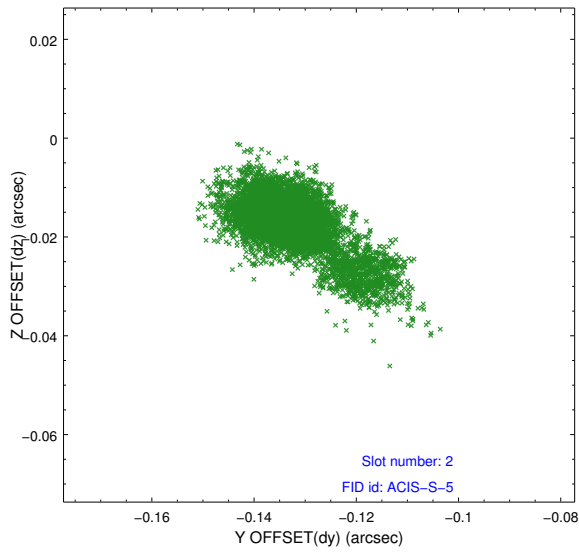
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.1844001

## A.2 Comments

Joint proposal with HST/WFPC2 and NRAO.