

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2923 - L2 Version 3  
Chandra X-Ray Center

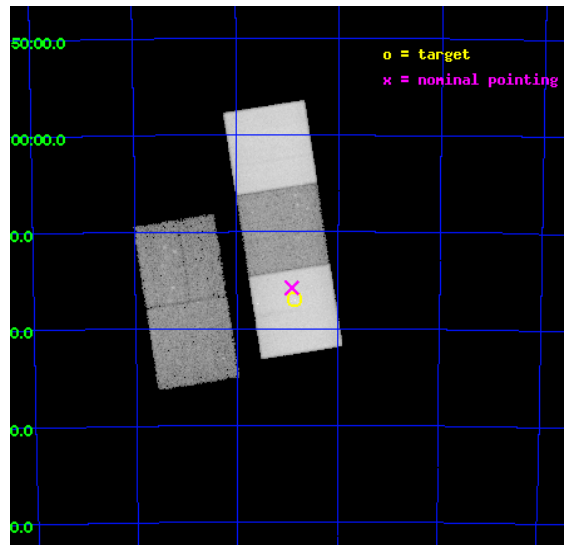
L2 Processing Date : Oct 17 2012

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# 1 Front

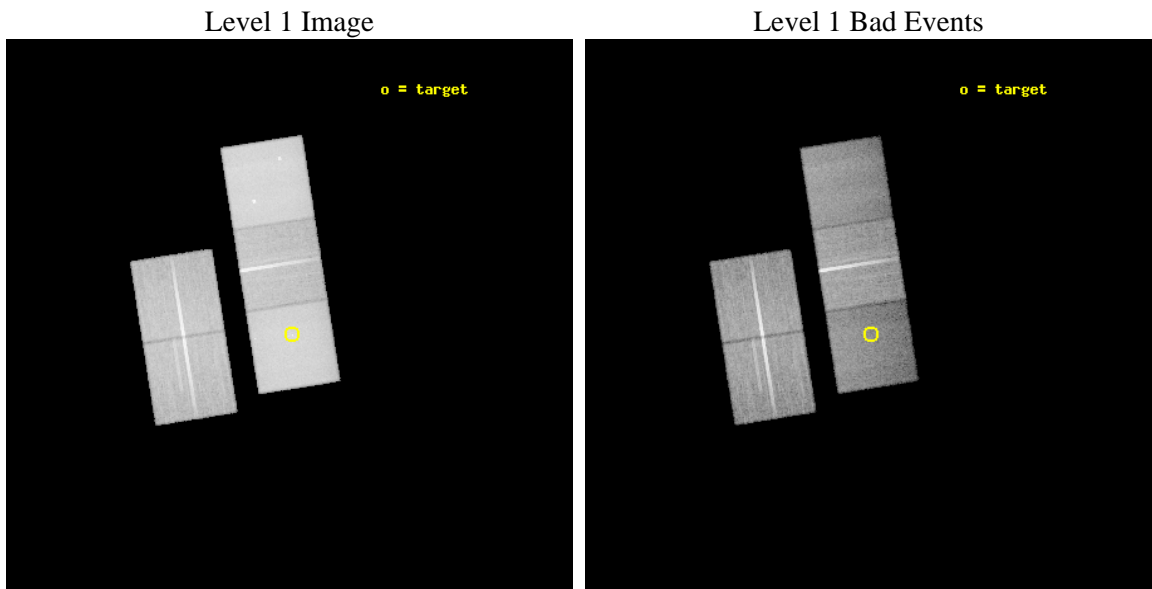
seq_num	600260	Sequence number
obs_id	2923	Observation id
title	THE DYNAMICS OF THE HOT ISM IN EARLY-TYPE GALAXIES	Proposal title
observer	Dr. Laurence David	Principal investigator
object	NGC2434	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	113.714167	Observer's specified target RA [deg]
dec_targ	-69.283611	Observer's specified target Dec [deg]
ra_nom	113.72816099561	Nominal RA [deg]
dec_nom	-69.263438476005	Nominal Dec [deg]
roll_nom	81.018260631213	Nominal Roll [deg]
revision	3	Processing version of data
ontime	47305.958938777	Sum of GTIs [s]
livetime	46687.871759102	Livetime [s]
ontime2	47299.677008331	Sum of GTIs [s]
ontime3	47299.677018285	Sum of GTIs [s]
ontime5	47302.817928672	Sum of GTIs [s]
ontime6	47302.817978561	Sum of GTIs [s]
ontime7	47305.958938777	Sum of GTIs [s]
l2events	589374	Number of level 2 events



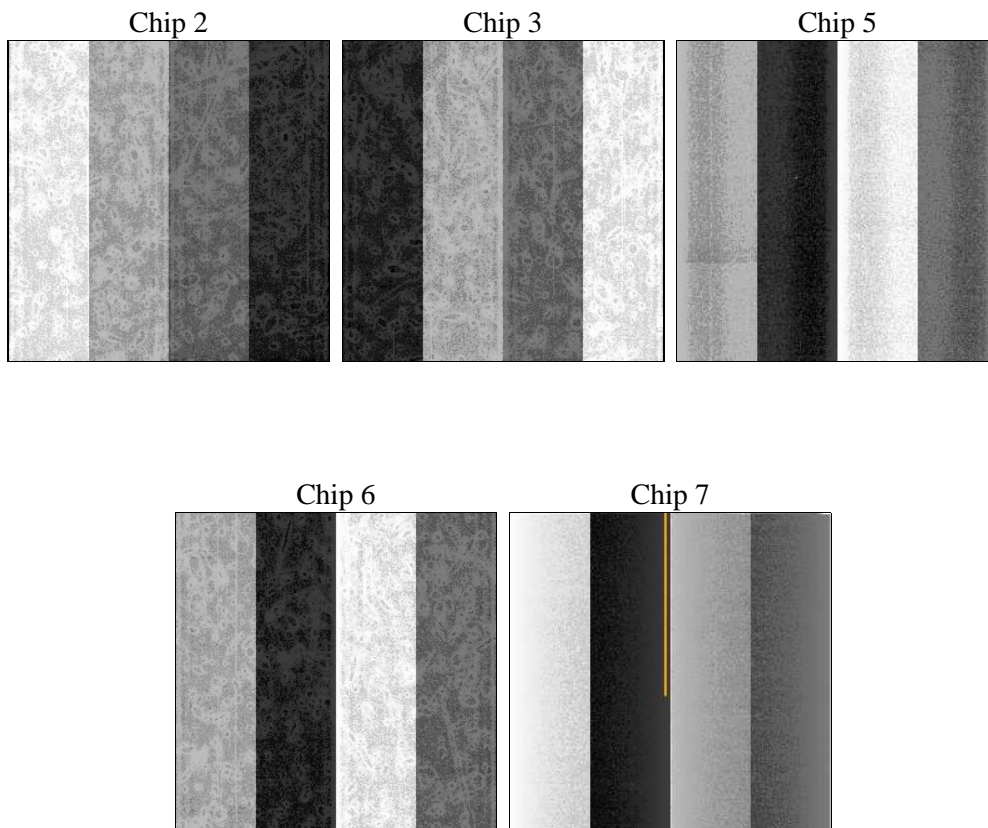
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	47148.174000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	47305.958938777	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	47299.677008331	Sum of GTIs [s]
date	2012-10-17T02:55:08	Date and time of file creation	ontime3	47299.677018285	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	47302.817928672	Sum of GTIs [s]
			ontime6	47302.817978561	Sum of GTIs [s]
			ontime7	47305.958938777	Sum of GTIs [s]
			l1events	1514518	Number of level 1 events

### 2.1.4 Events

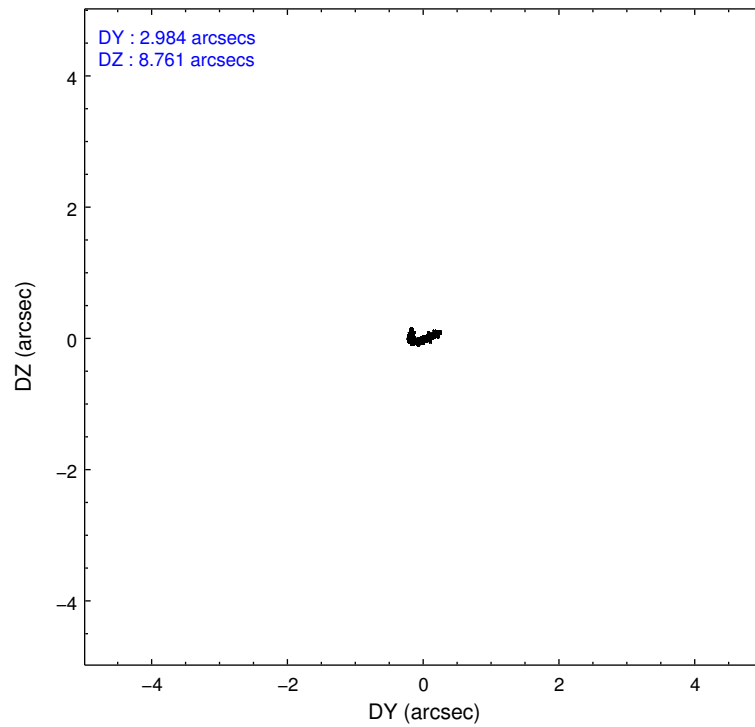
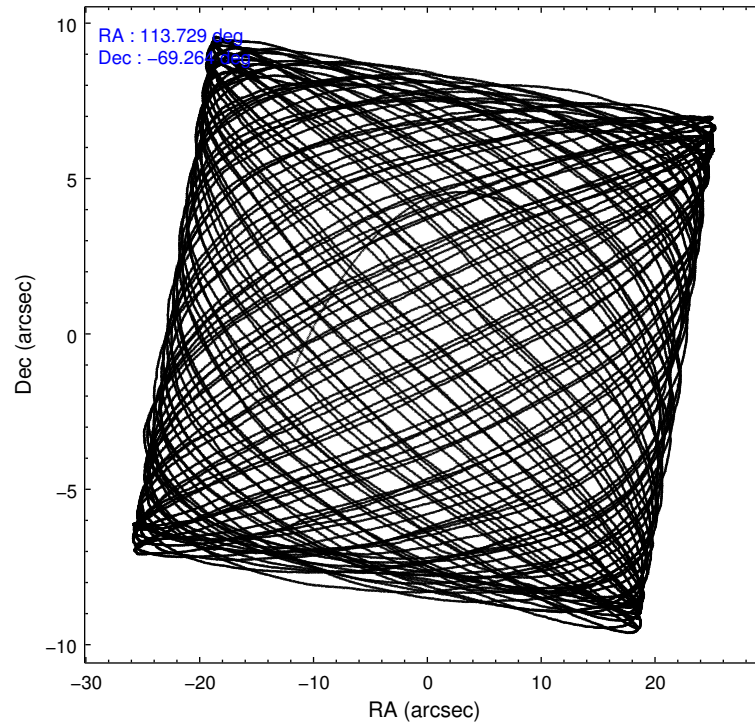
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	250058	239148	410268	251921	363123
rejected events	220523	210859	146523	210713	115407
rejected %	88%	88%	35%	83%	31%

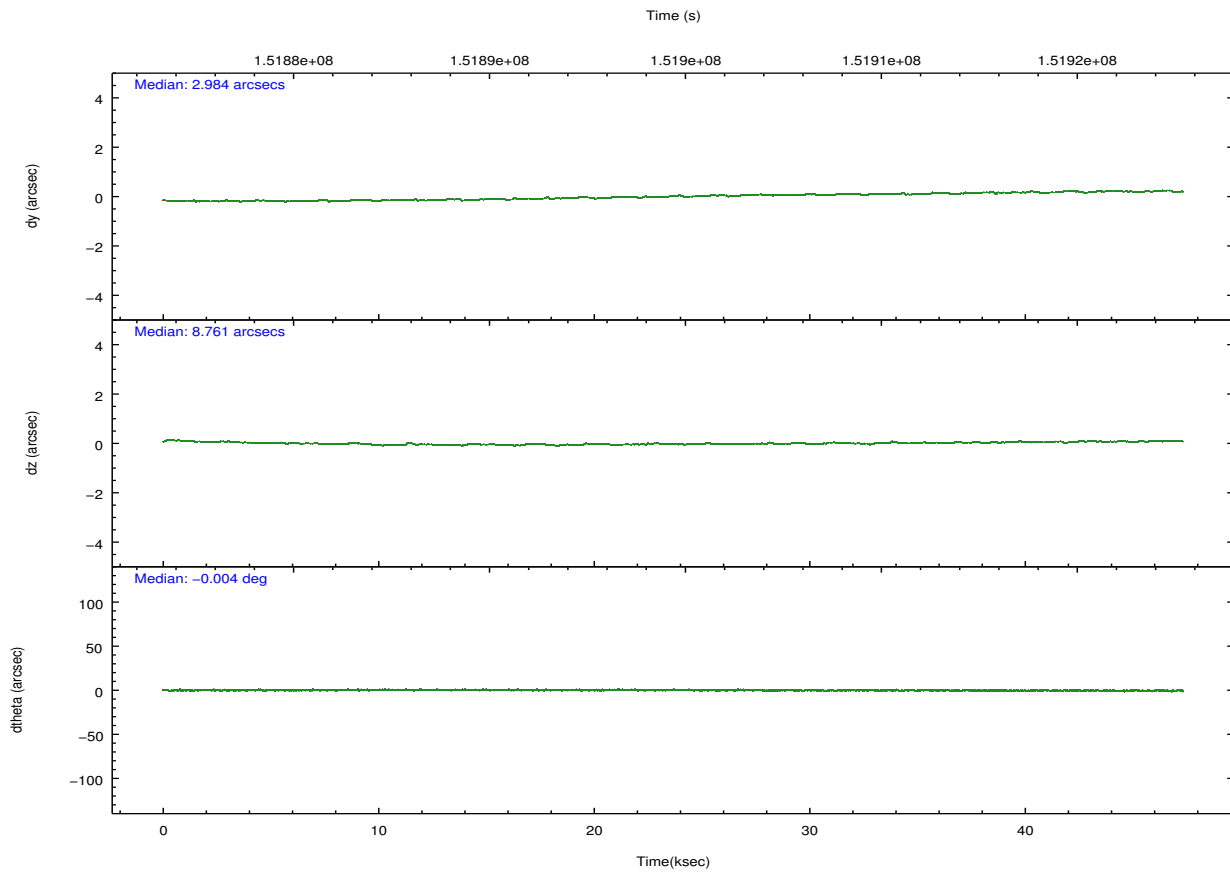
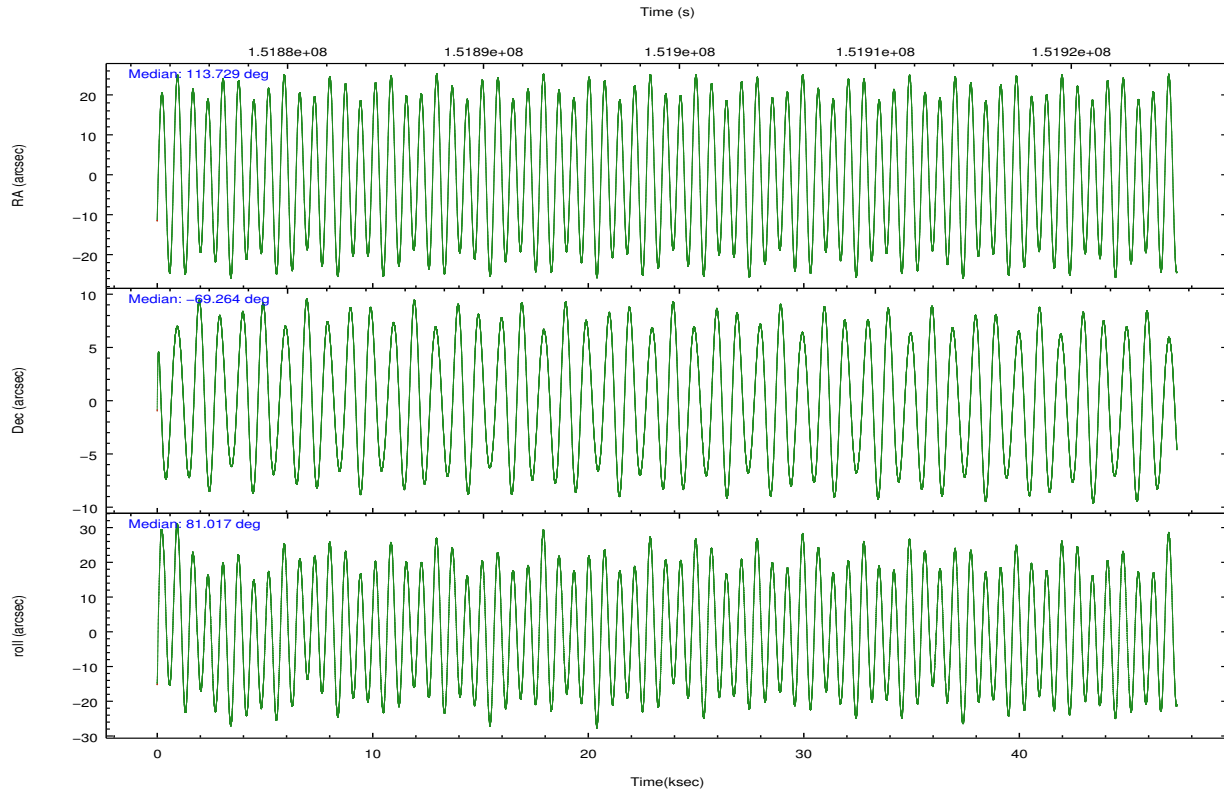
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	14653	14240	31404	24193	25037
	5%	5%	7%	9%	6%
grade 1 events	136	127	266	164	224
	0%	0%	0%	0%	0%
grade 2 events	5626	4948	75792	6463	47069
	2%	2%	18%	2%	12%
grade 3 events	2672	2714	15173	3066	21155
	1%	1%	3%	1%	5%
grade 4 events	2733	2636	14698	2972	21124
	1%	1%	3%	1%	5%
grade 5 events	6442	7527	25709	7959	25049
	2%	3%	6%	3%	6%
grade 6 events	4117	4004	128332	4811	134585
	1%	1%	31%	1%	37%
grade 7 events	213679	202952	118894	202293	88880
	85%	84%	28%	80%	24%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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
[deg] Pointing RA	113.756704	113.7281609956142	Subarray requested	NONE	NONE
[deg] Pointing Dec	-69.288727	-69.26343847600502	Alternating exposures requested	N	N
[deg] Pointing Roll	80.888337	81.01826063121337	[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)	151875876.184000	151874610.20929			
Observation start date	2002-10-24T19:43:32	2002-10-24T19:23:30			
[s] Observation end time (MET)	151923024.184000	151923339.22382			
Observation end date	2002-10-25T08:49:20	2002-10-25T08:55:39			
Read mode	TIMED	TIMED			

## 2.3 Aspect



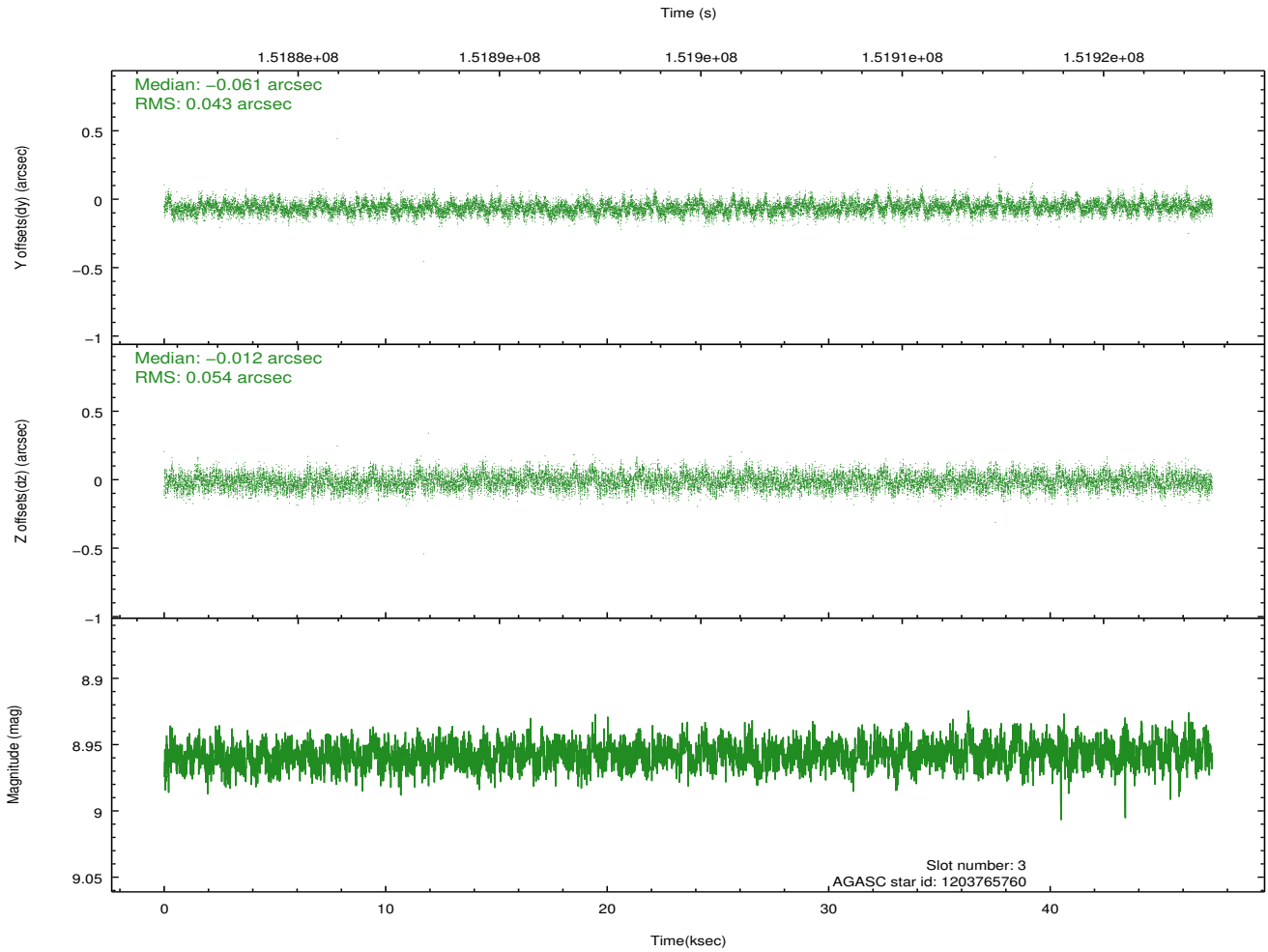
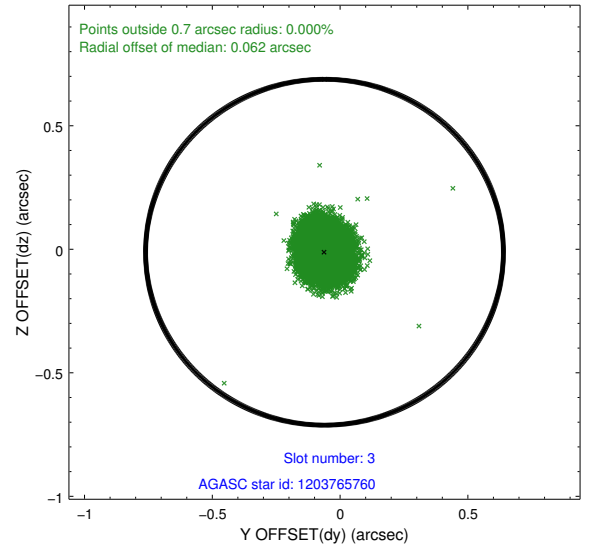
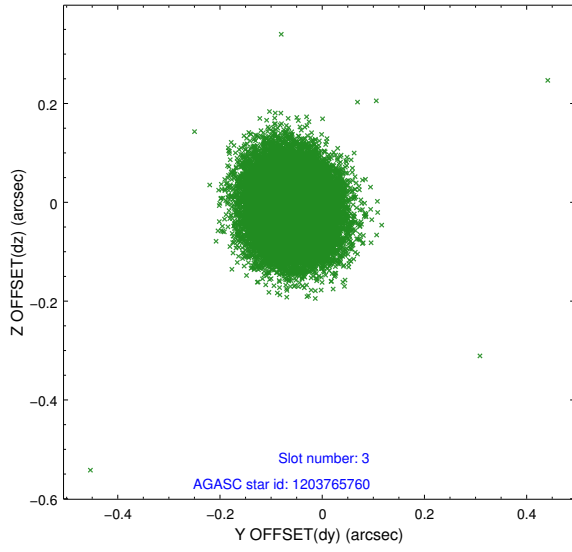


### Slot Statistics

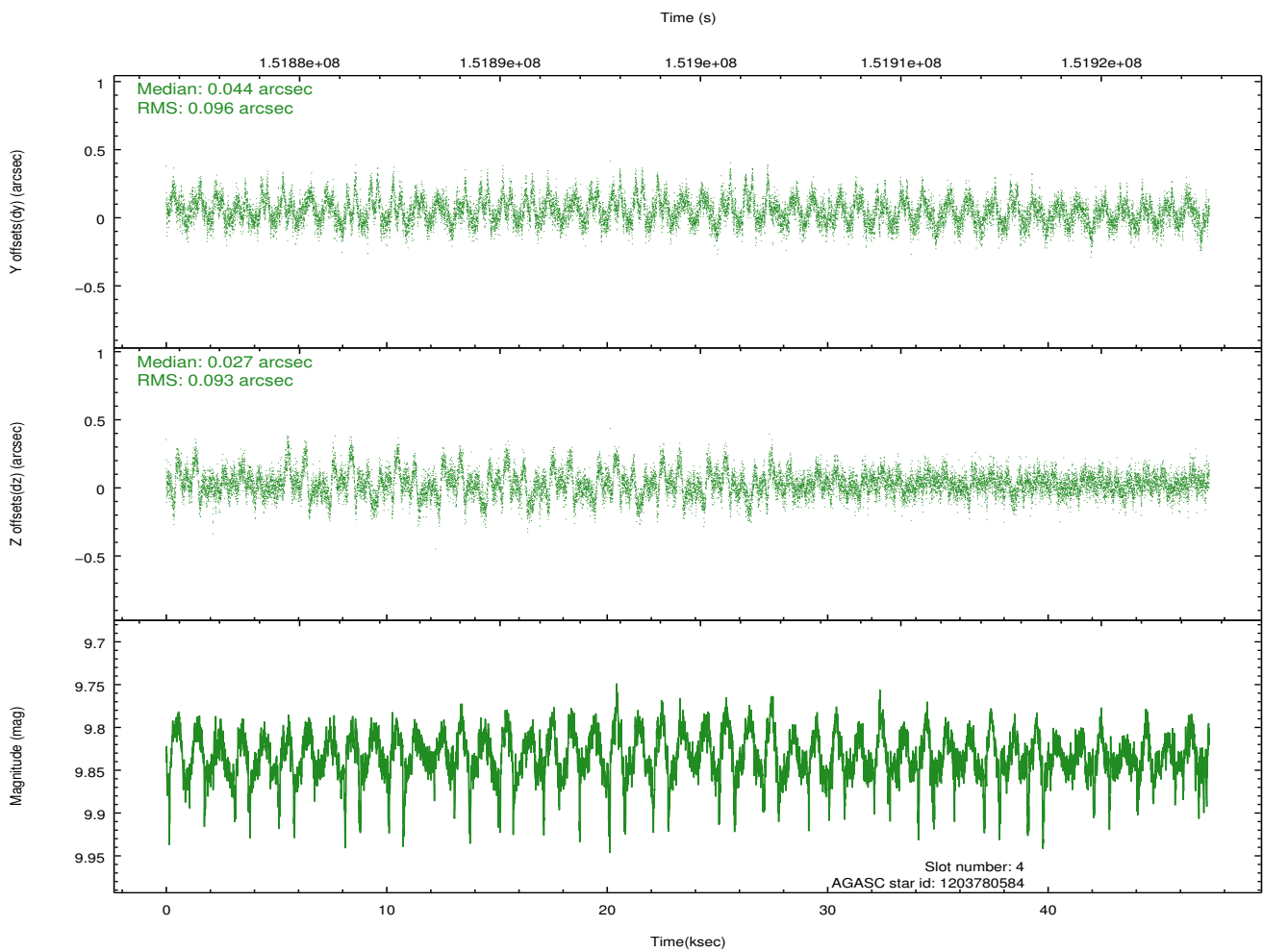
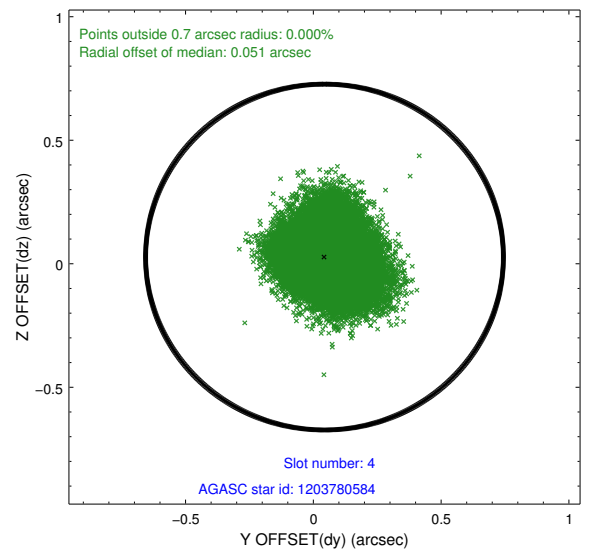
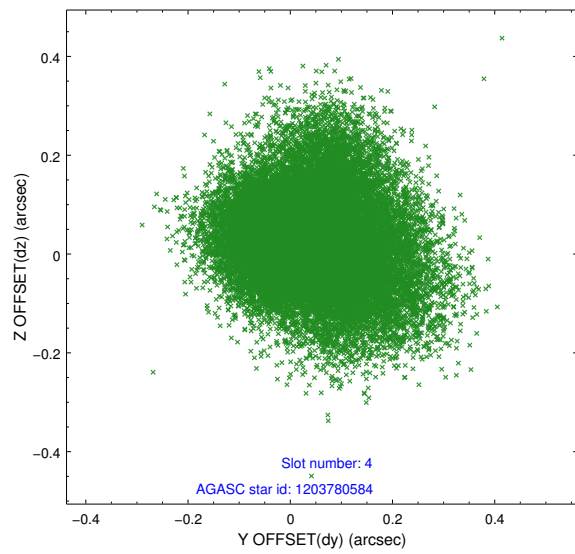
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	11538	-0.020	-0.010	0.008	0.012	0.000000	0.000000	-755.65	-1729.99
1	FID	ACIS-S-4	7.20	11536	-0.000	0.012	0.012	0.020	0.000000	0.000000	2157.66	178.53
2	FID	ACIS-S-5	7.24	11539	-0.012	0.006	0.011	0.018	0.000000	0.000000	-1808.49	172.18
3	GUIDE	1203765760	8.96	23067	-0.061	-0.012	0.074	0.118	114.370143	-69.600134	-988.48	-937.58
4	GUIDE	1203780584	9.83	23026	0.044	0.027	0.142	0.233	114.799734	-69.946918	-2146.16	-1647.67
5	GUIDE	1203123152	8.46	23070	0.078	0.068	0.070	0.111	112.228785	-68.580781	2174.10	2383.69
6	GUIDE	1203111024	9.82	22948	-0.087	-0.022	0.148	0.248	113.764307	-68.627153	2353.55	368.13
7	GUIDE	1203770160	9.22	23061	0.033	-0.063	0.078	0.131	115.049912	-69.466651	-390.32	-1715.80

## 2.4 Star Slots

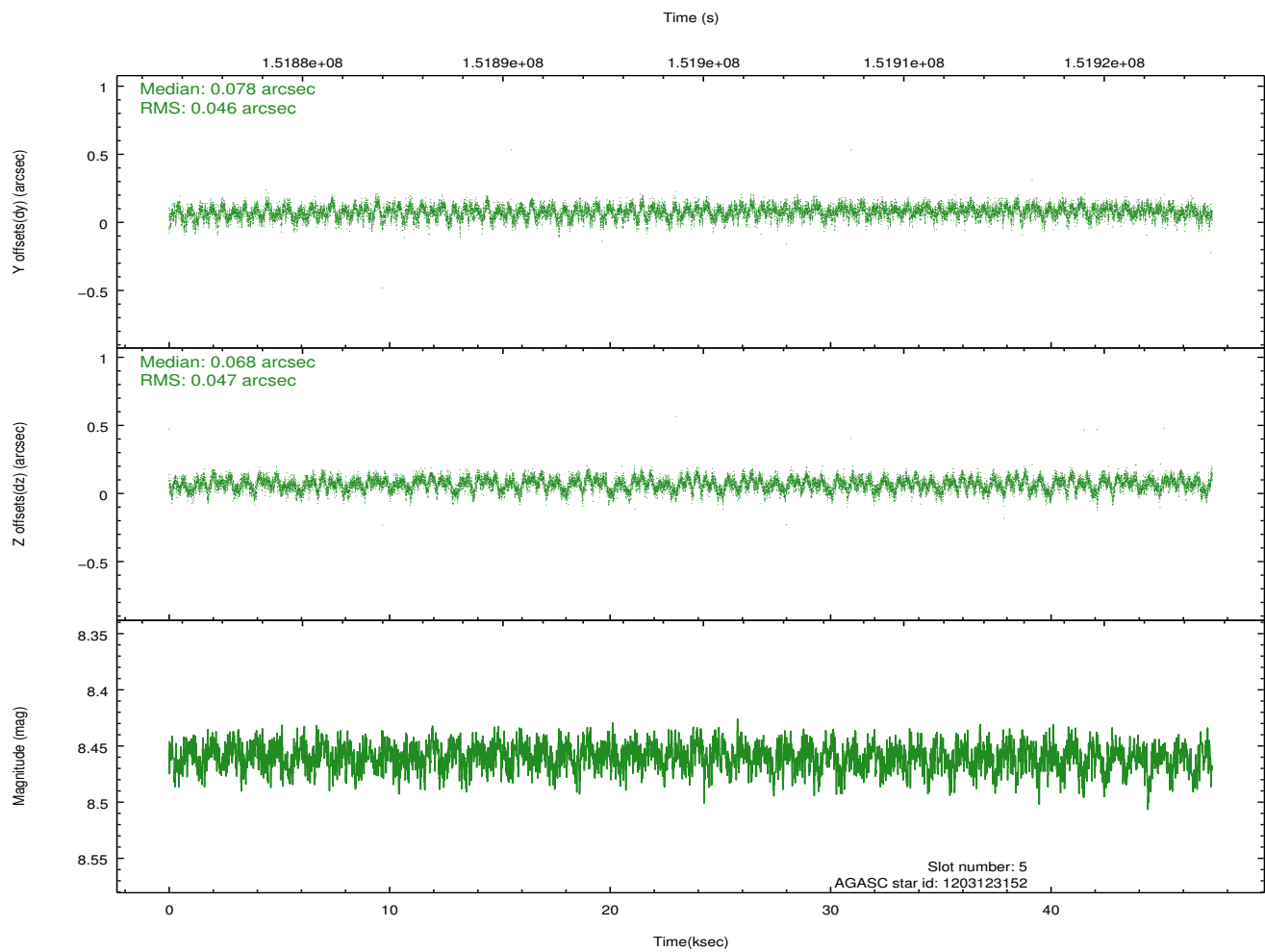
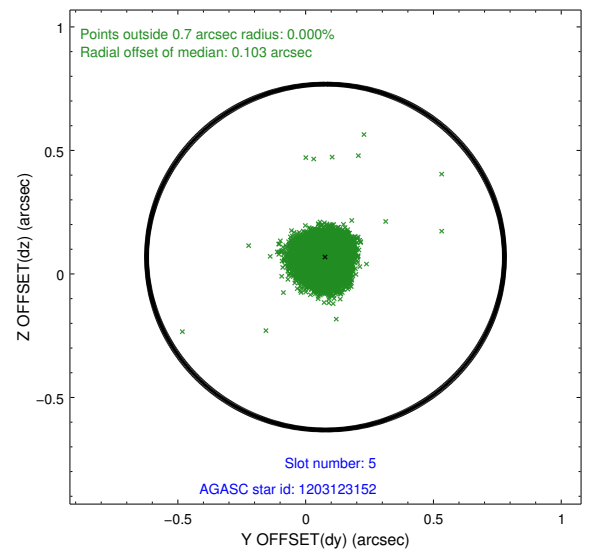
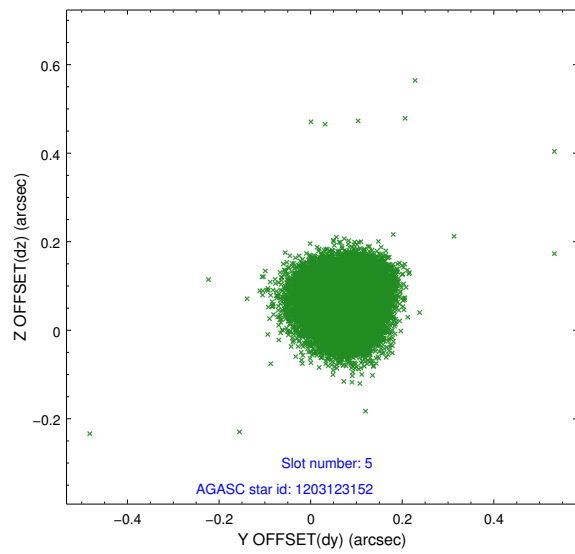
### 2.4.1 Slot 3



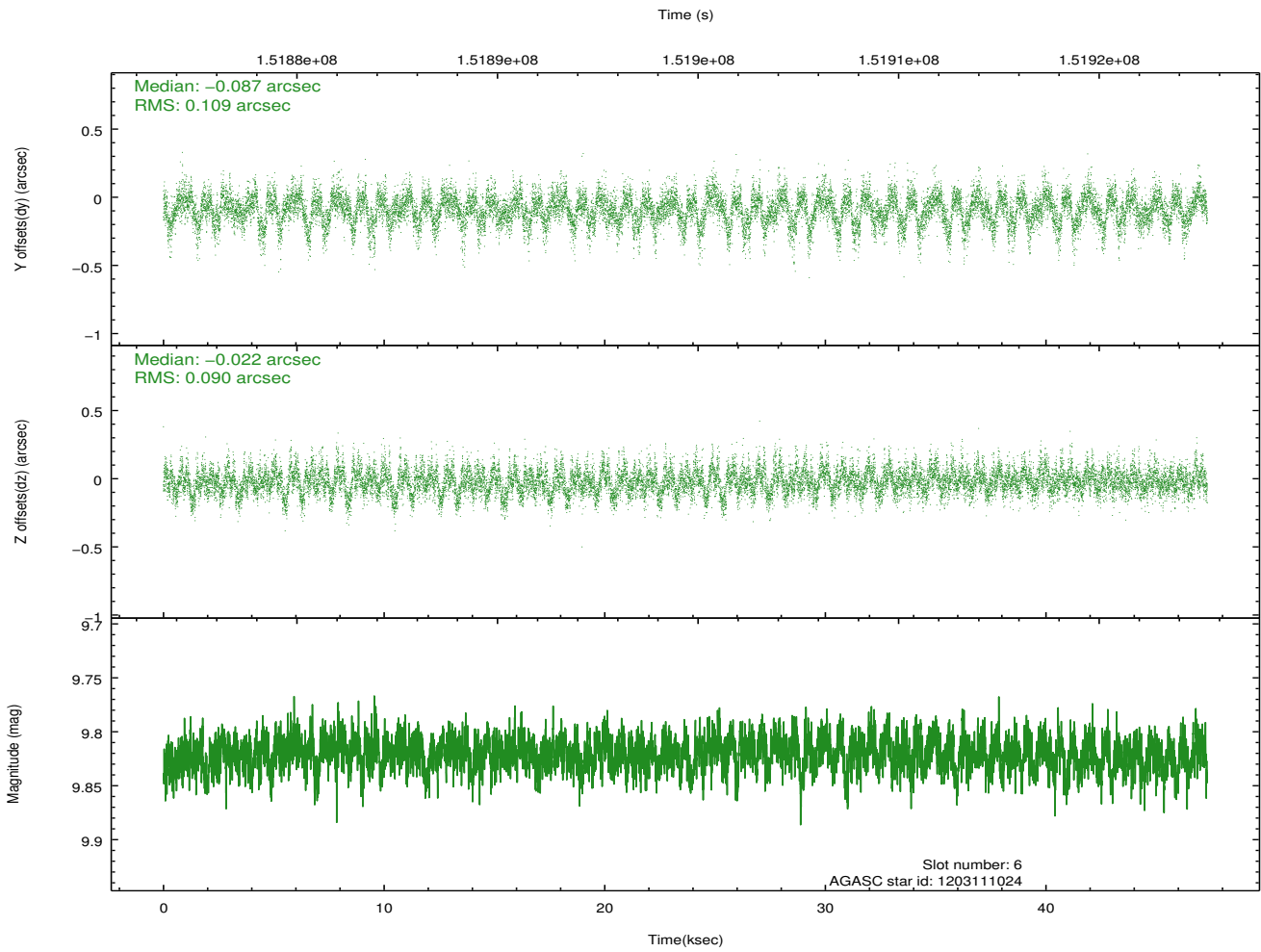
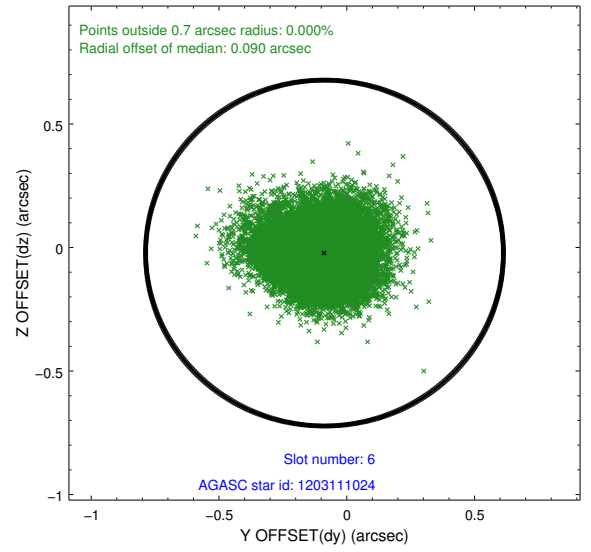
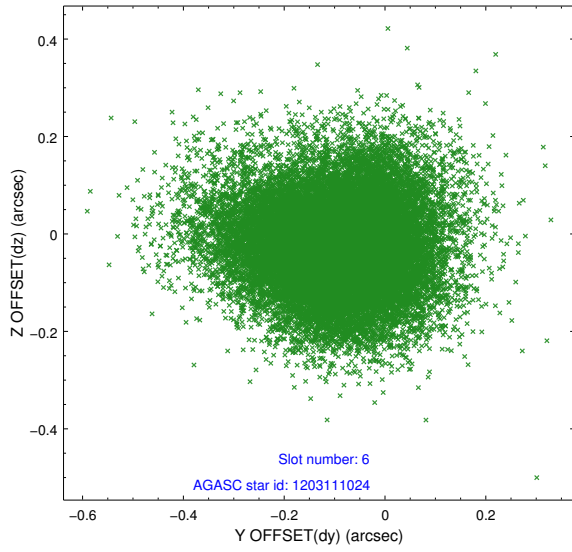
## 2.4.2 Slot 4



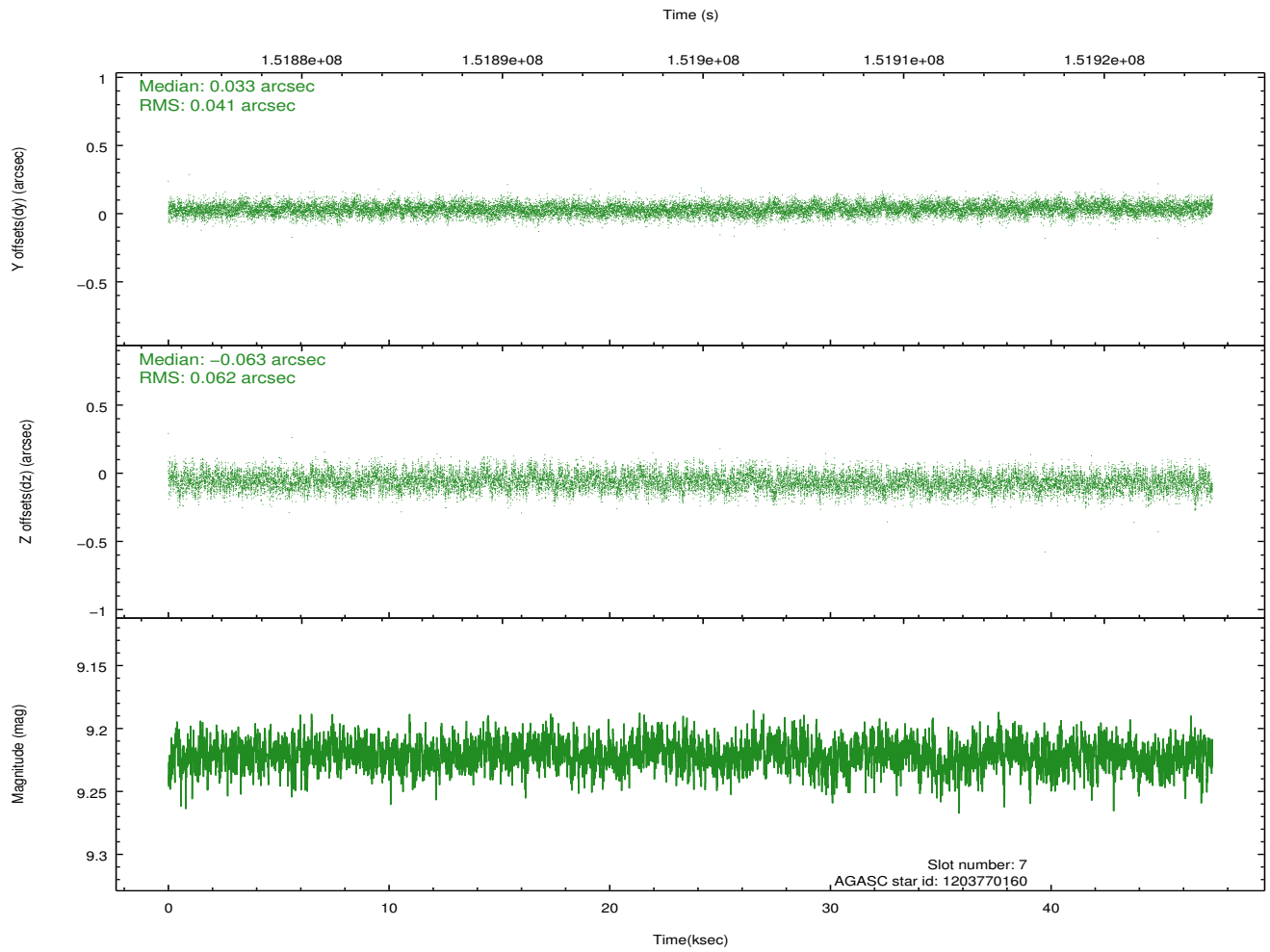
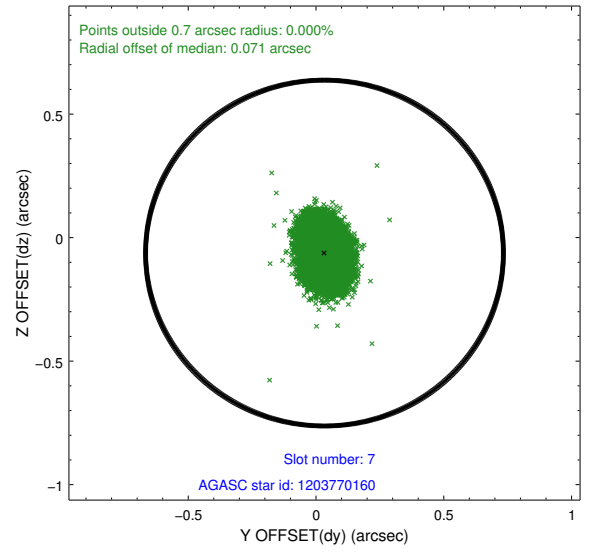
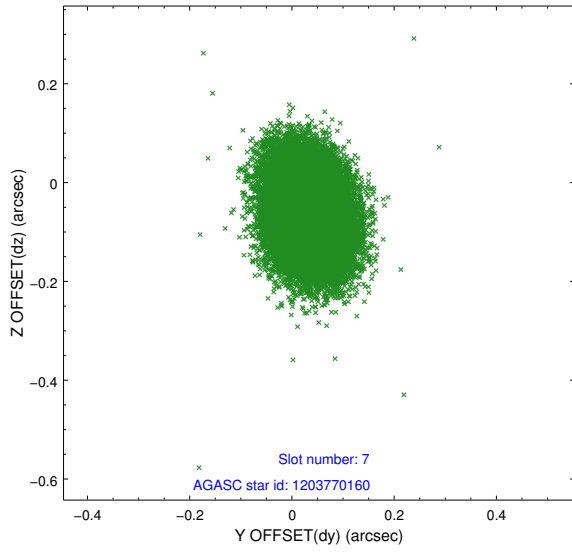
### 2.4.3 Slot 5



### 2.4.4 Slot 6

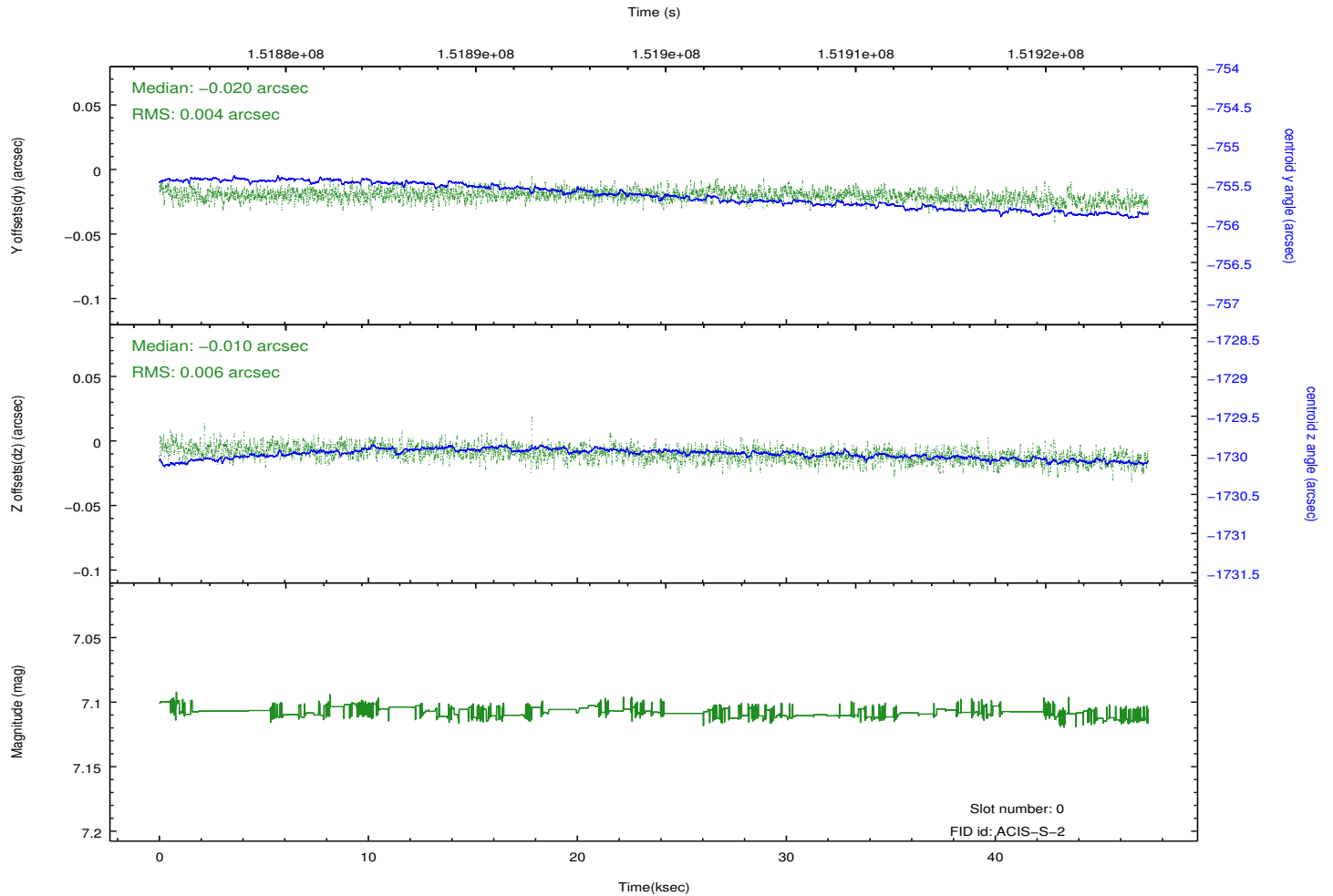
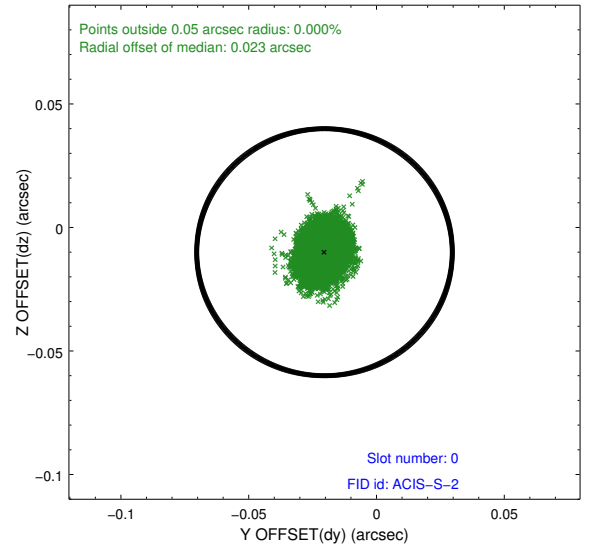
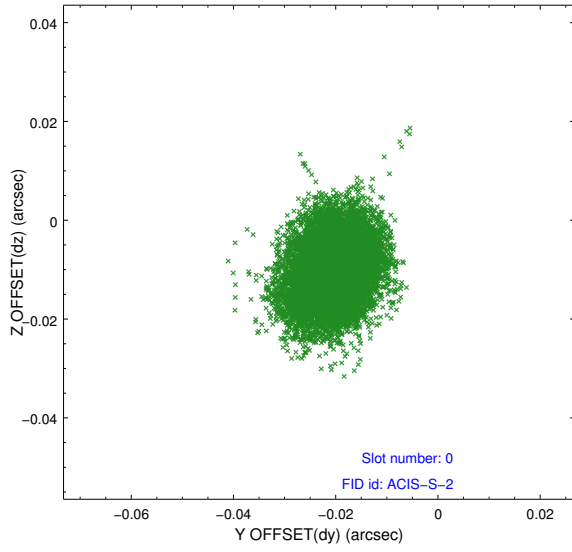


### 2.4.5 Slot 7

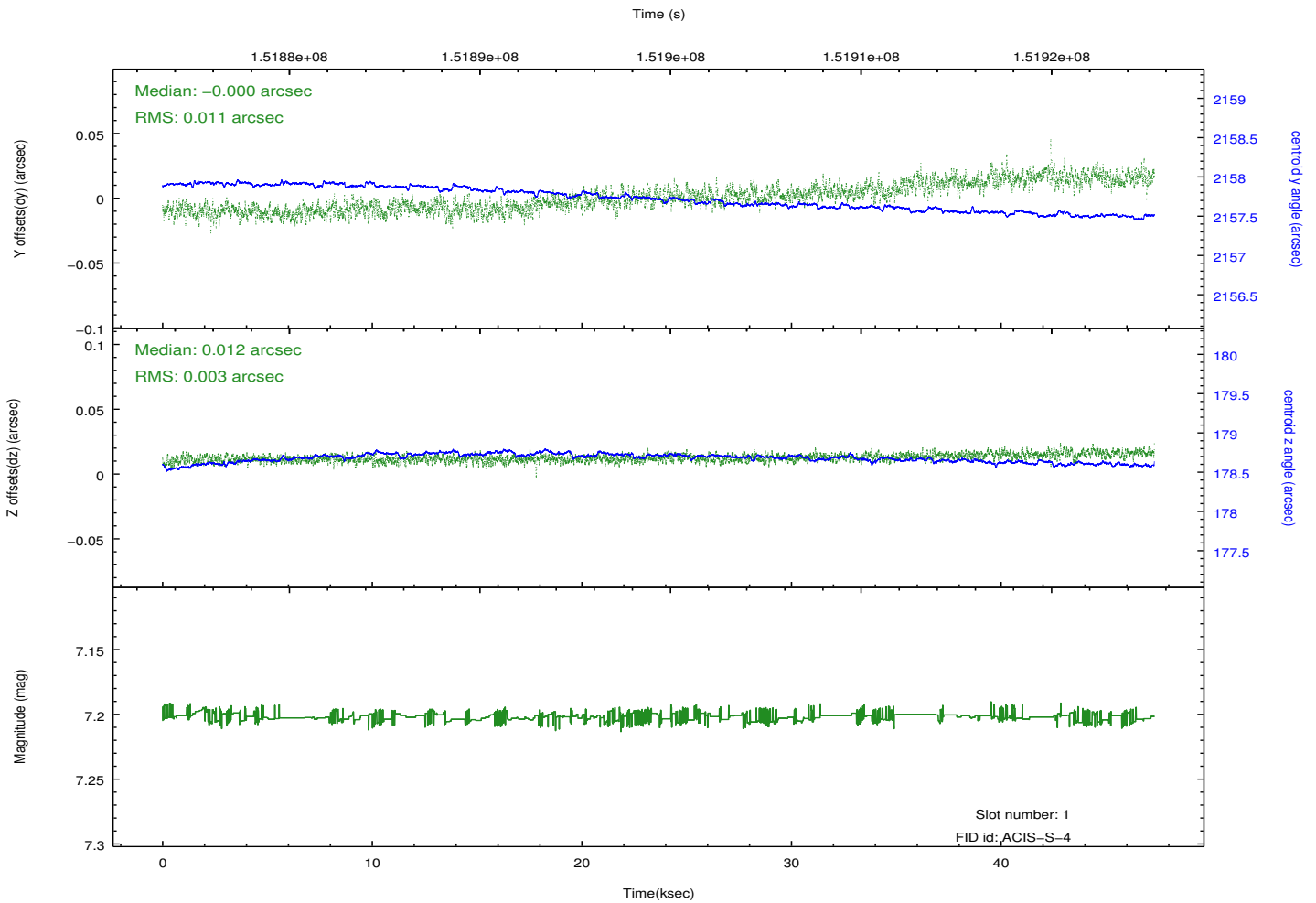
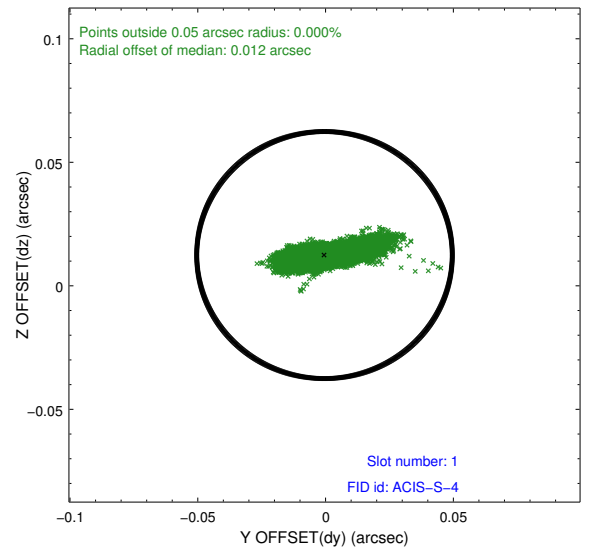
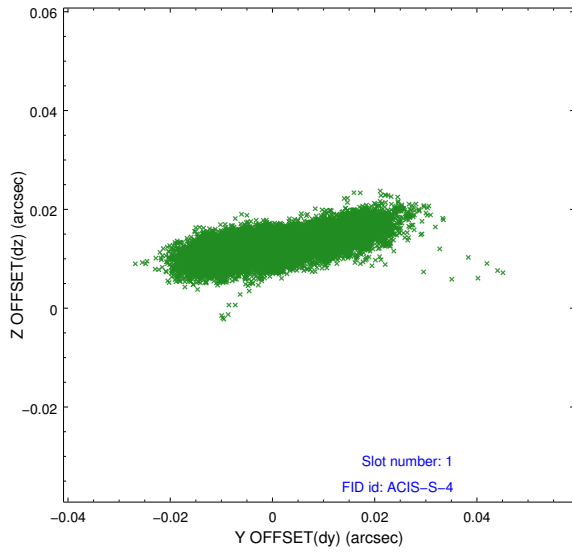


## 2.5 FID Slots

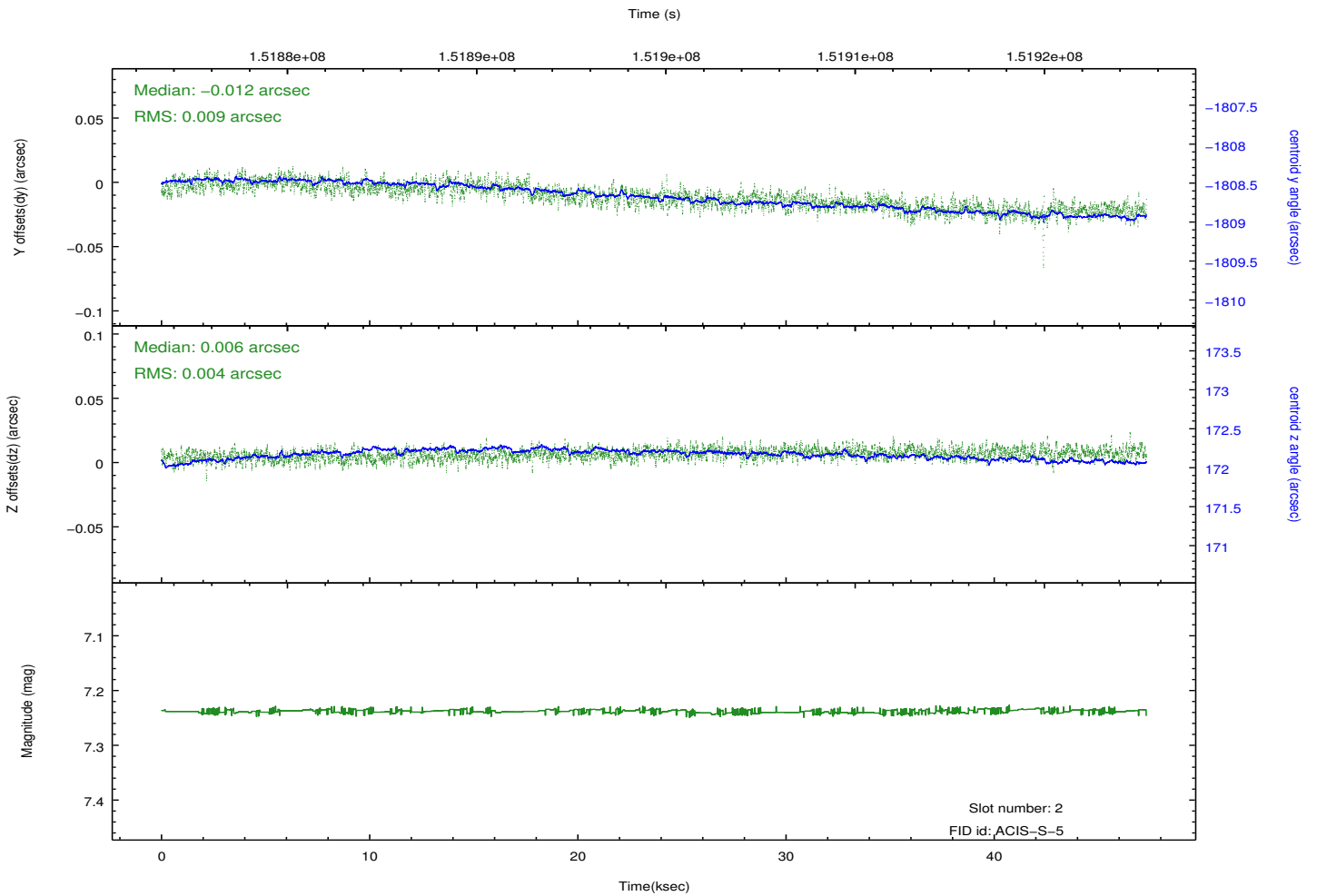
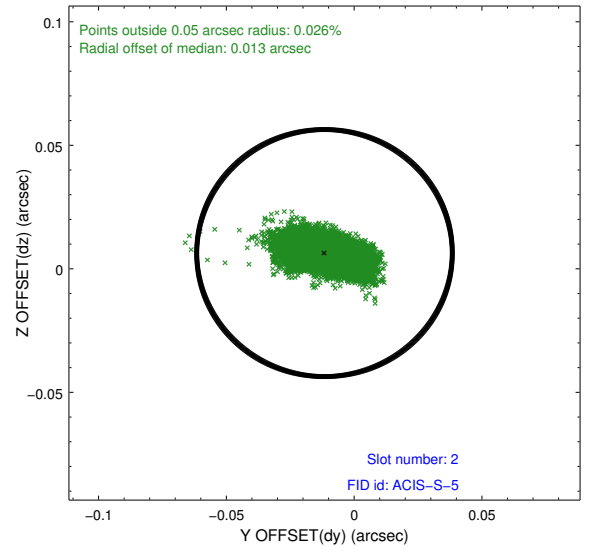
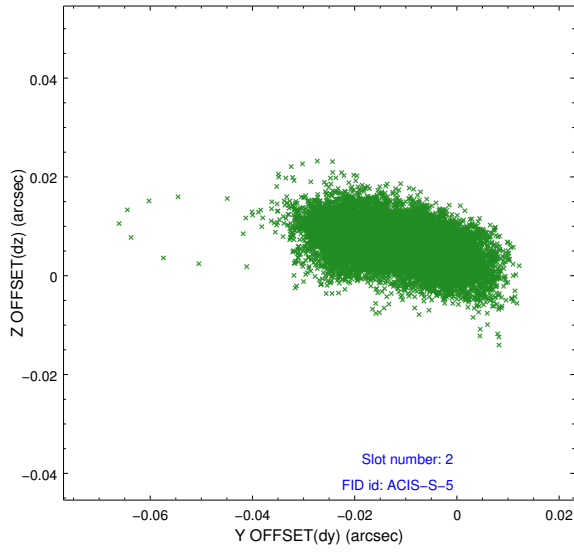
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.305

## A.2 Comments