

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8565 - L2 Version 2  
Chandra X-Ray Center

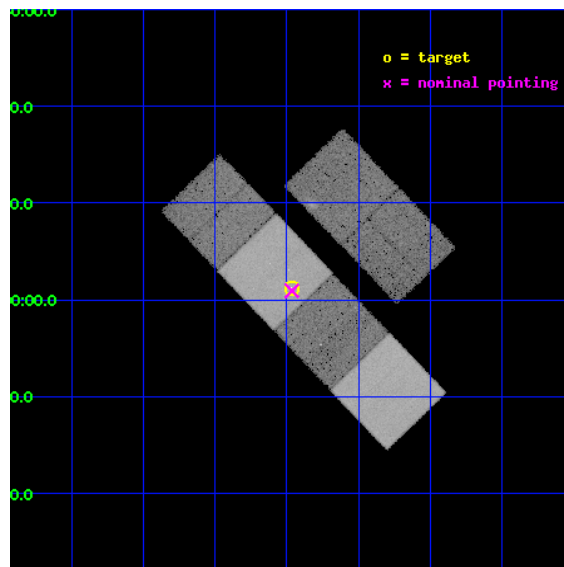
L2 Processing Date : Apr 27 2012

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# 1 Front

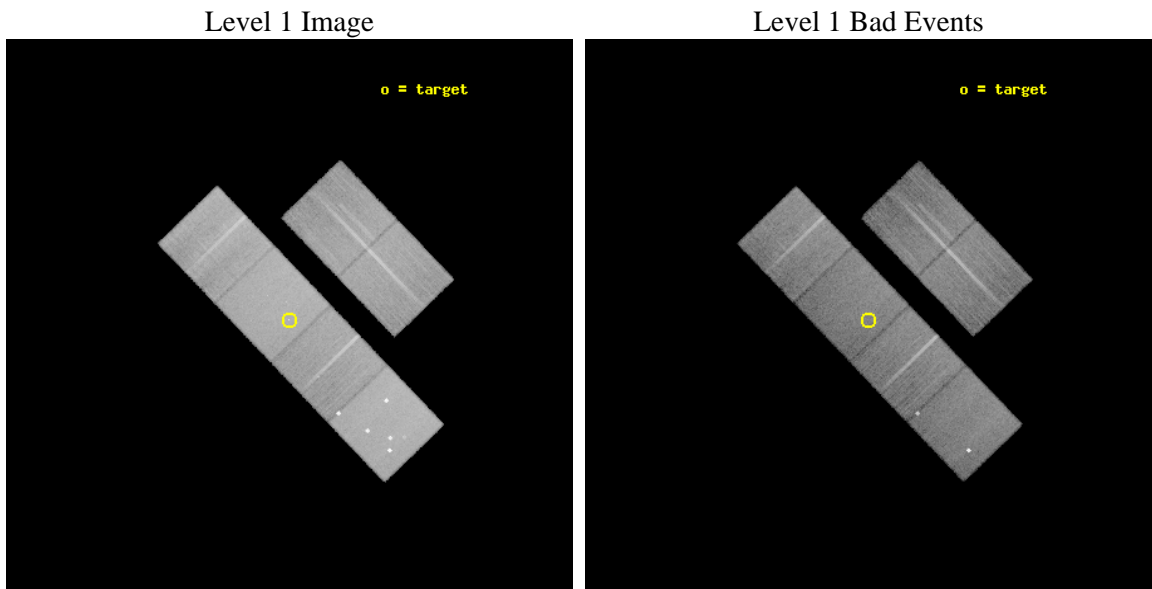
seq_num	701549	Sequence number
obs_id	8565	Observation id
title	X-ray Jets and Lobe-Cluster Interaction in 3C353	Proposal title
observer	Dr. Jun Kataoka	Principal investigator
object	3C353	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	260.117083	Observer's specified target RA [deg]
dec_targ	-0.979667	Observer's specified target Dec [deg]
ra_nom	260.1160750681	Nominal RA [deg]
dec_nom	-0.98440546486427	Nominal Dec [deg]
roll_nom	226.15661551079	Nominal Roll [deg]
revision	2	Processing version of data
ontime	18179.199932337	Sum of GTIs [s]
livetime	17949.003956594	Livetime [s]
ontime2	18175.958932042	Sum of GTIs [s]
ontime3	18179.199932337	Sum of GTIs [s]
ontime5	18179.199932337	Sum of GTIs [s]
ontime6	18179.199932337	Sum of GTIs [s]
ontime7	18179.199932337	Sum of GTIs [s]
ontime8	18179.199932337	Sum of GTIs [s]
l2events	306052	Number of level 2 events



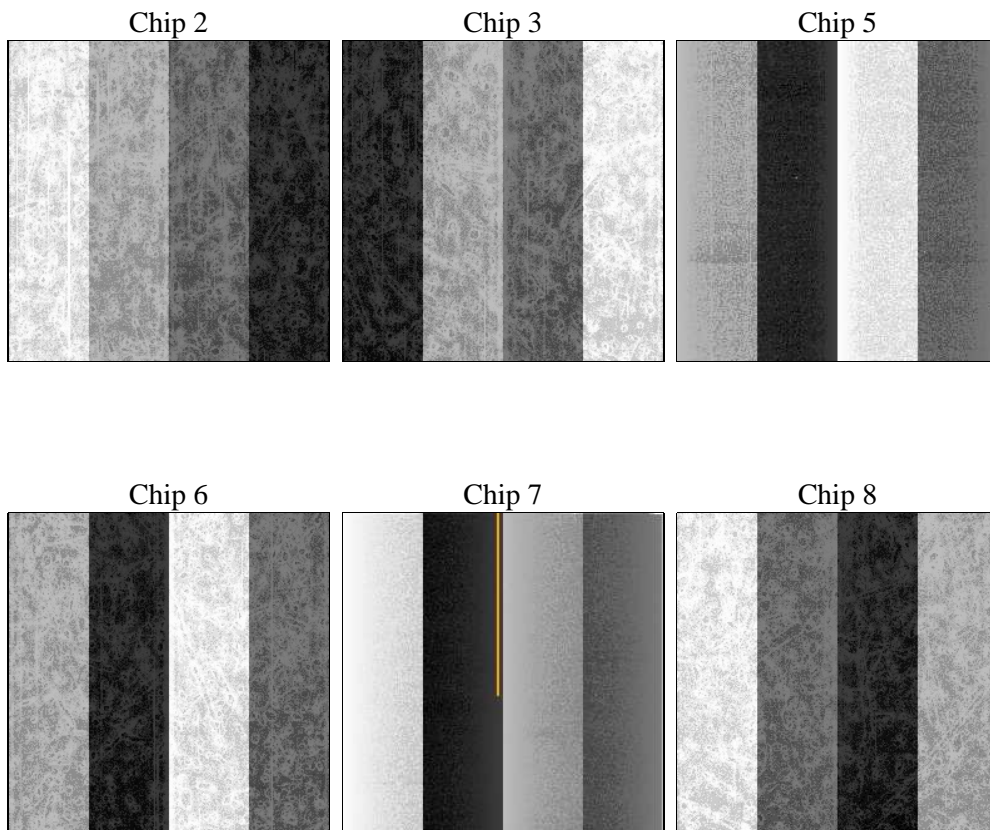
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	18179.199932337	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	18175.958932042	Sum of GTIs [s]
date	2012-04-27T14:42:26	Date and time of file creation	ontime3	18179.199932337	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	18179.199932337	Sum of GTIs [s]
			ontime6	18179.199932337	Sum of GTIs [s]
			ontime7	18179.199932337	Sum of GTIs [s]
			ontime8	18179.199932337	Sum of GTIs [s]
			l1events	1341285	Number of level 1 events

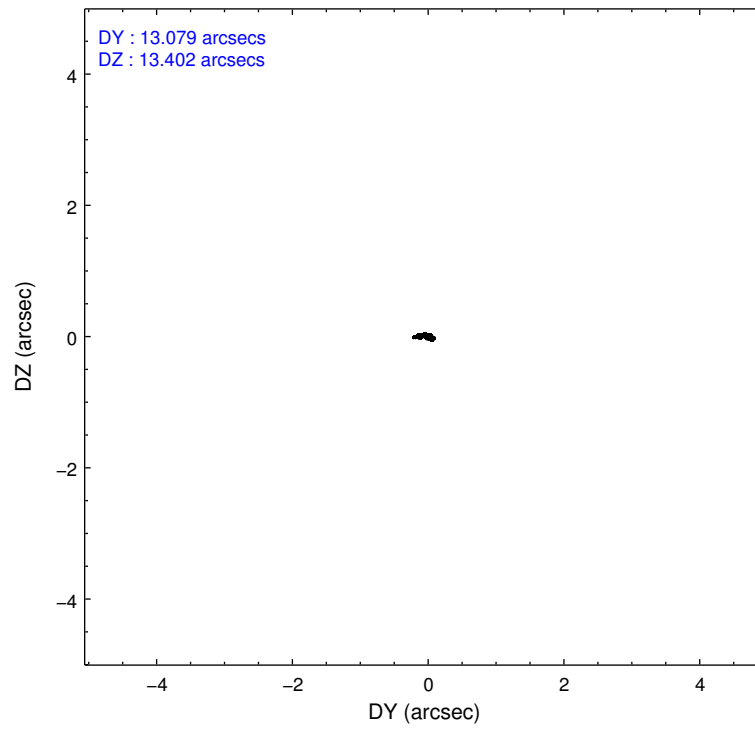
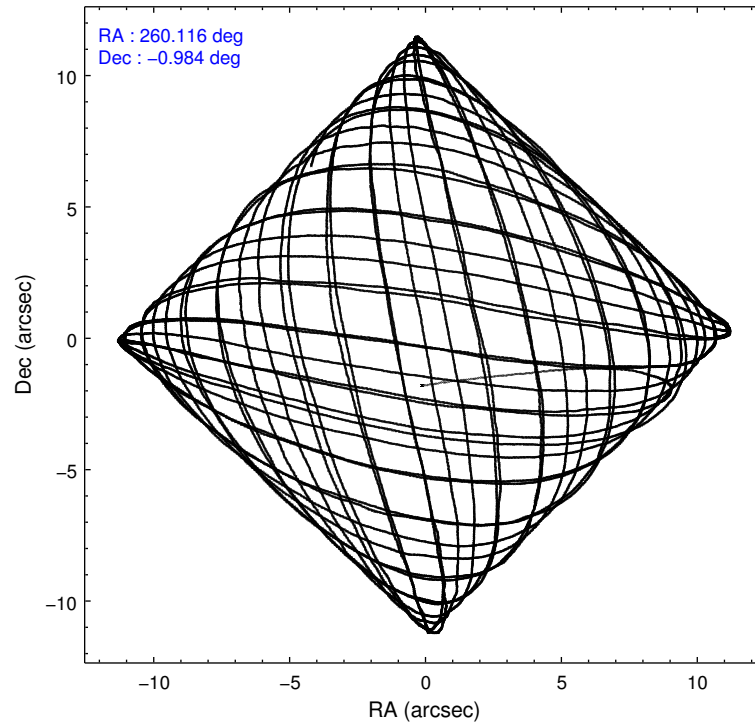
### 2.1.4 Events

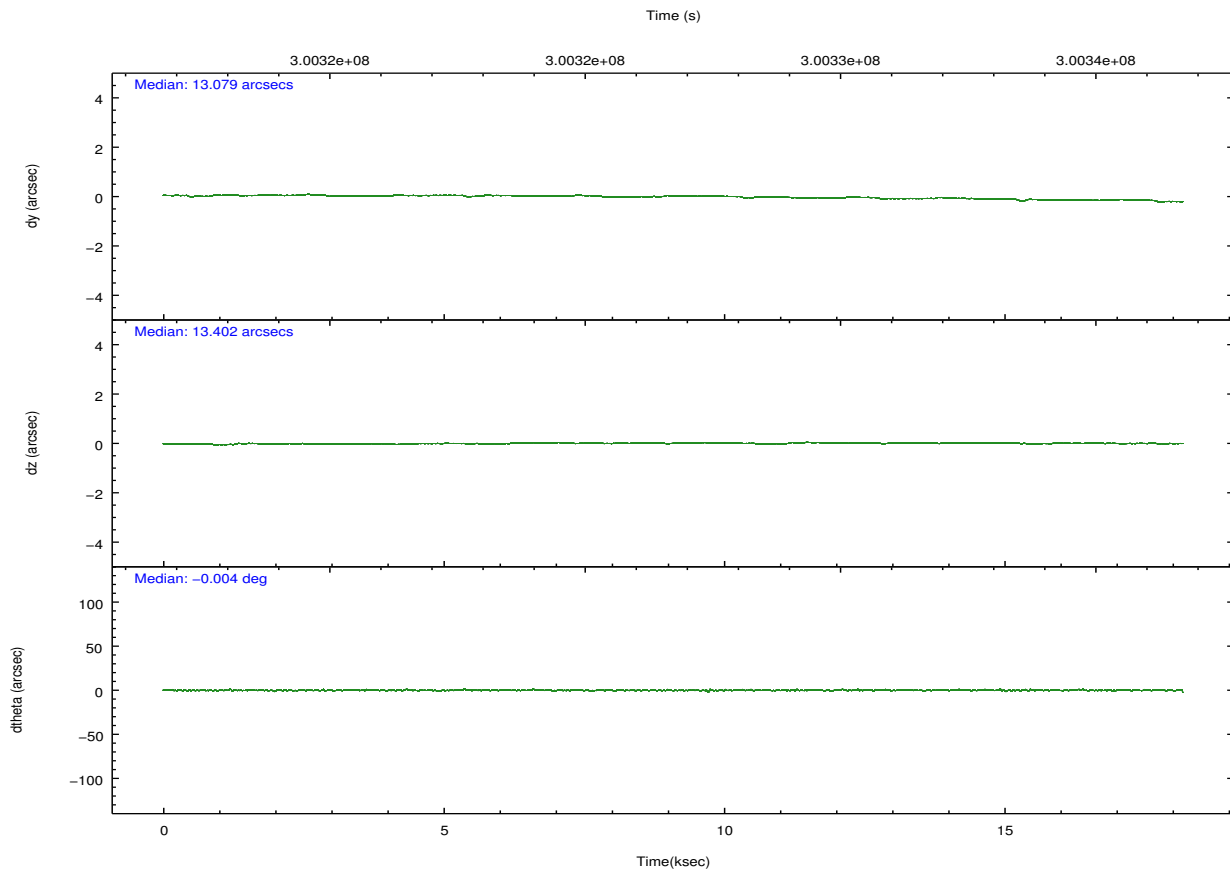
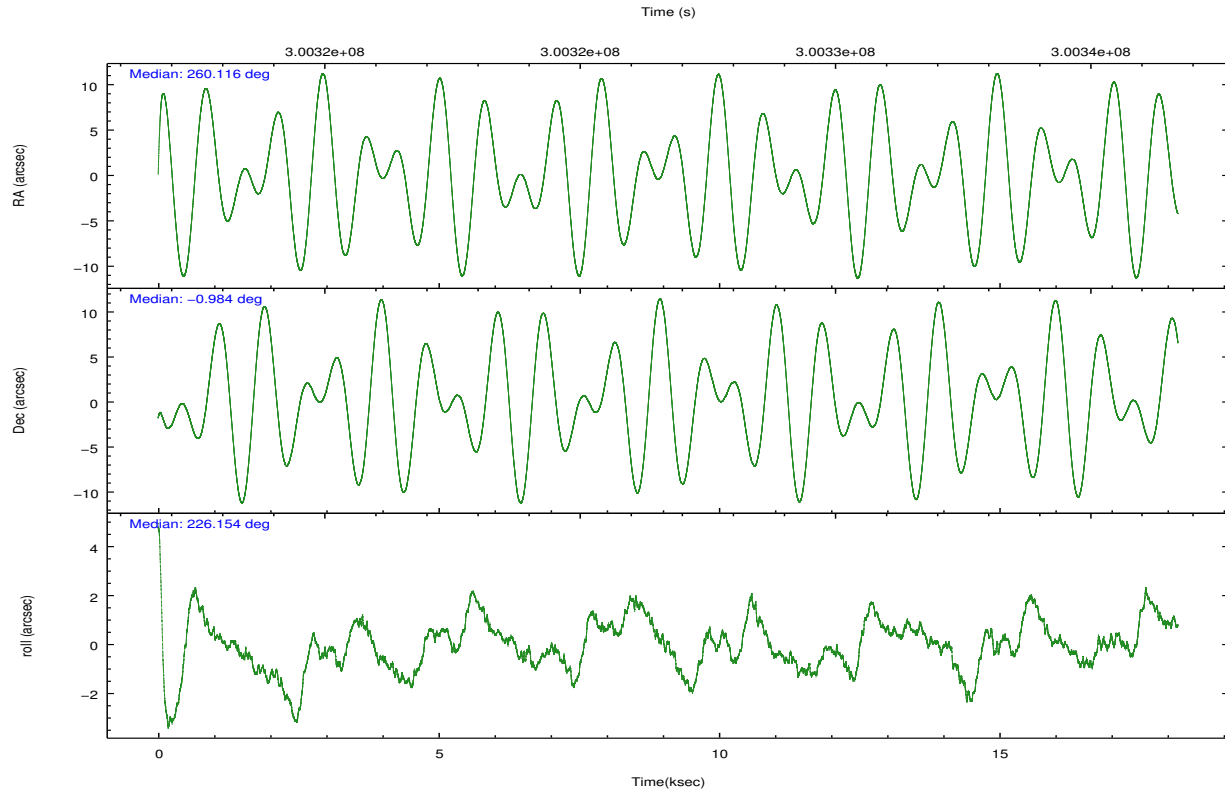
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	189562	176424	298856	186303	255949	234191	grade 0 events	9388	10162	22251	10079	10936	17993
rejected events	168217	154772	159294	162905	147383	181131		4%	5%	7%	5%	4%	7%
rejected %	88%	87%	53%	87%	57%	77%	grade 1 events	137	117	713	106	226	178
								0%	0%	0%	0%	0%	0%
							grade 2 events	4681	4186	40129	4913	22689	12013
								2%	2%	13%	2%	8%	5%
							grade 3 events	1999	1937	4854	2160	9594	5466
								1%	1%	1%	1%	3%	2%
							grade 4 events	2012	2022	4654	2155	9645	4936
								1%	1%	1%	1%	3%	2%
							grade 5 events	7122	8319	20686	8433	23400	11328
								3%	4%	6%	4%	9%	4%
							grade 6 events	3727	3785	70581	4601	57913	13603
								1%	2%	23%	2%	22%	5%
							grade 7 events	160496	145896	134988	153856	121546	168674
								84%	82%	45%	82%	47%	72%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	260.122233	260.1160750681025	CCD I2 on	O1	Y
[deg] Pointing Dec	-0.957770	-0.9844054648642721	CCD I3 on	O2	Y
[deg] Pointing Roll	226.000088	226.1566155107918	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O5	Y
[s] Observation start time (MET)	300317804.184000	300316537.03243	CCD S5 on	N	N
Observation start date	2007-07-08T21:35:39	2007-07-08T21:15:37	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	300335804.184000	300336792.5709	On-chip summing requested	N	N
Observation end date	2007-07-09T02:35:39	2007-07-09T02:53:12	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



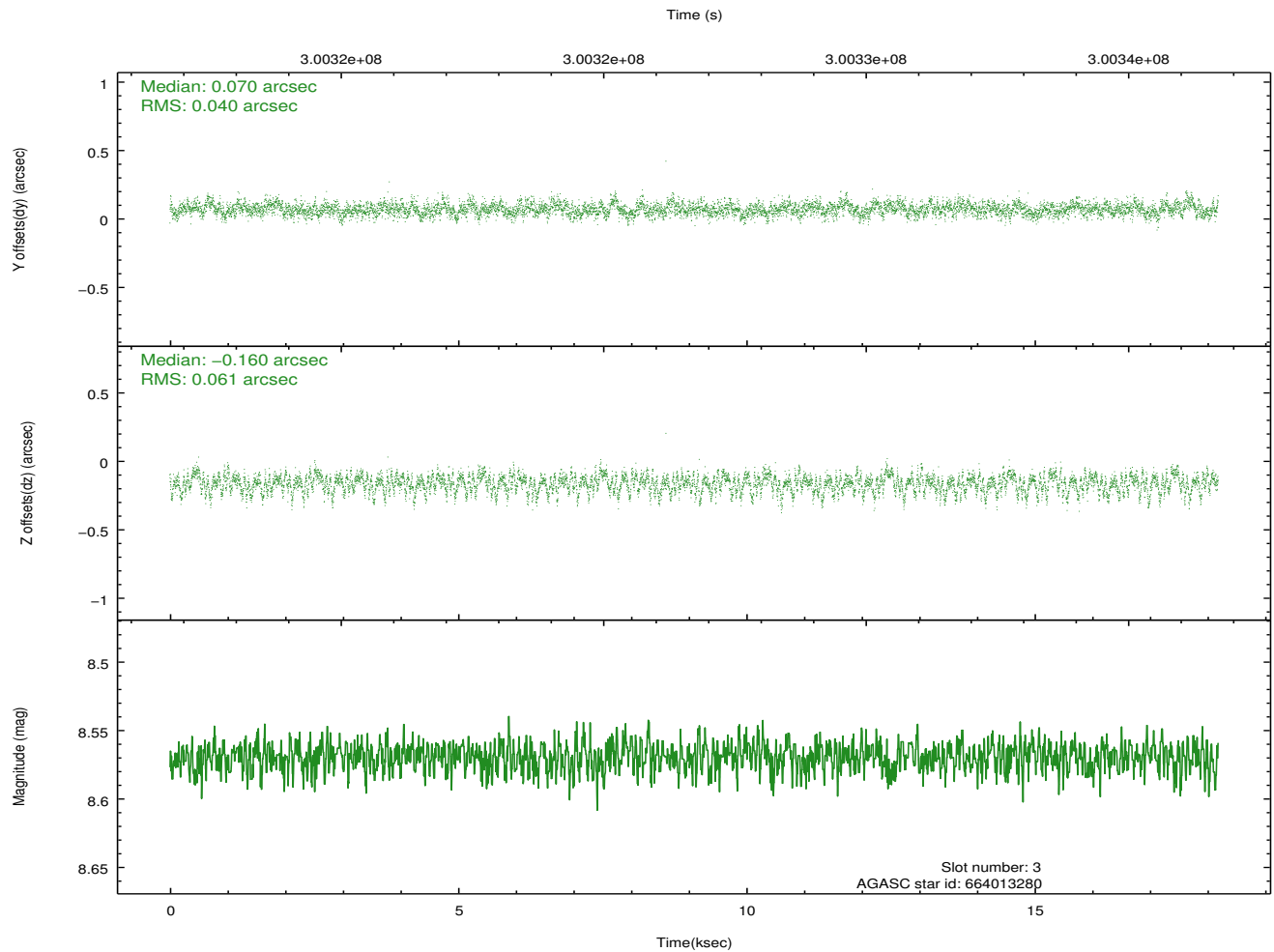
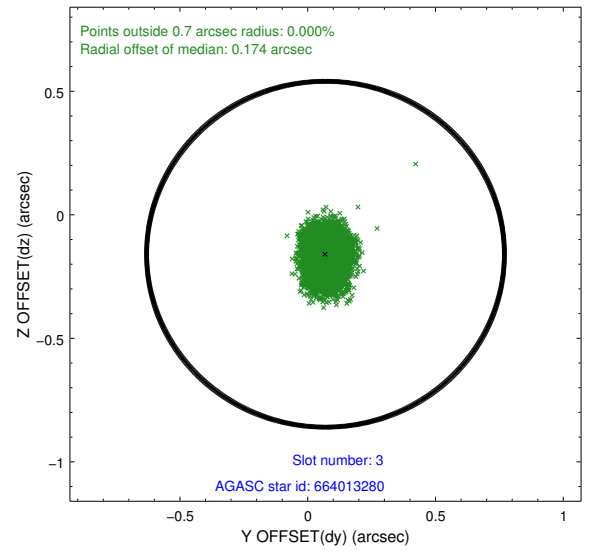
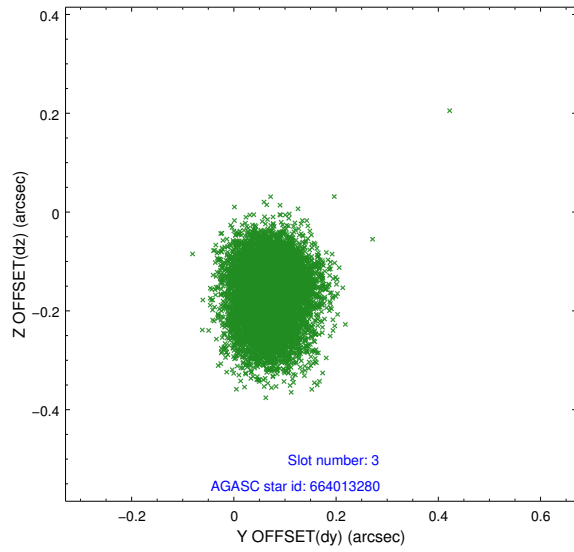


### Slot Statistics

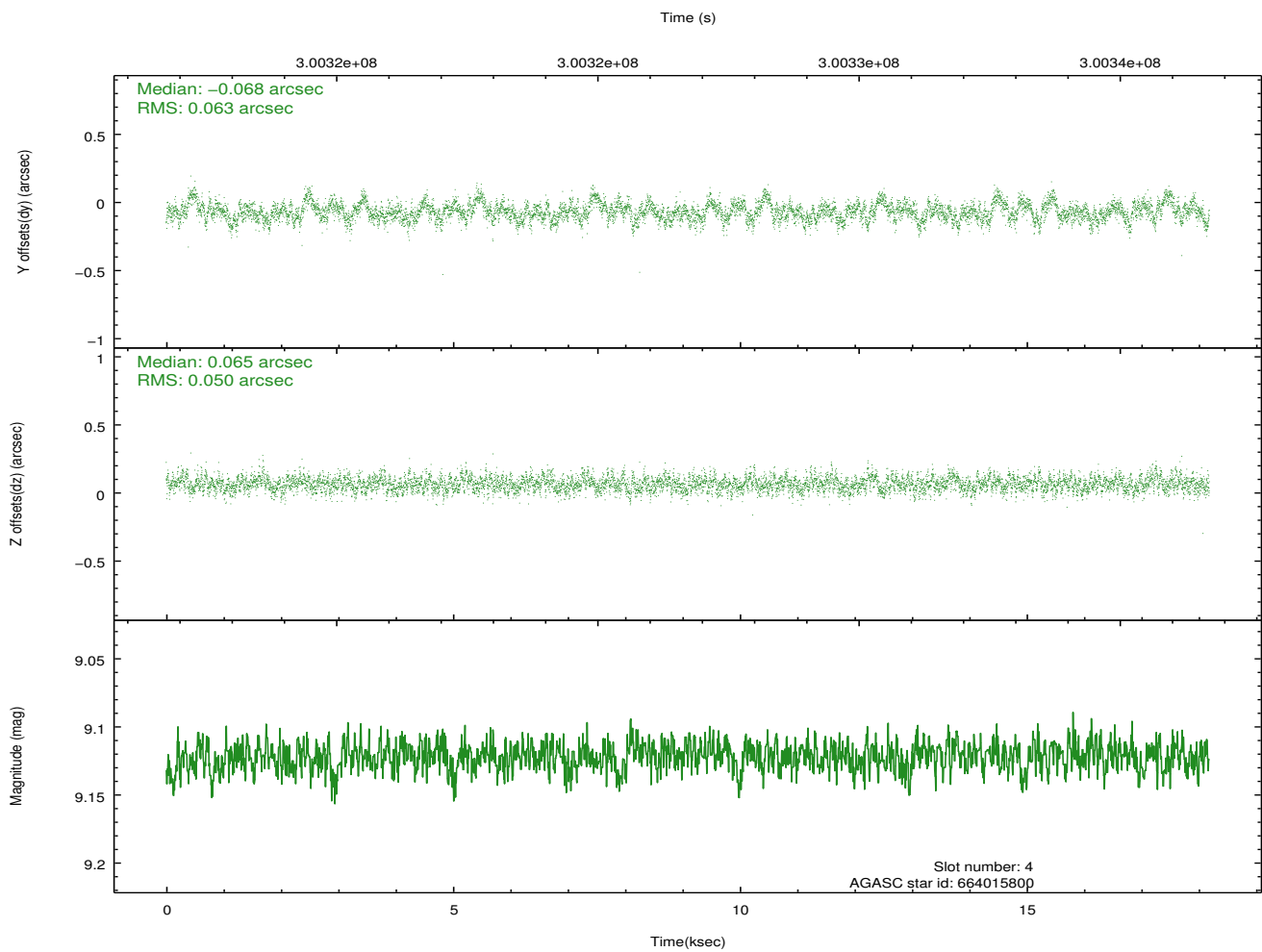
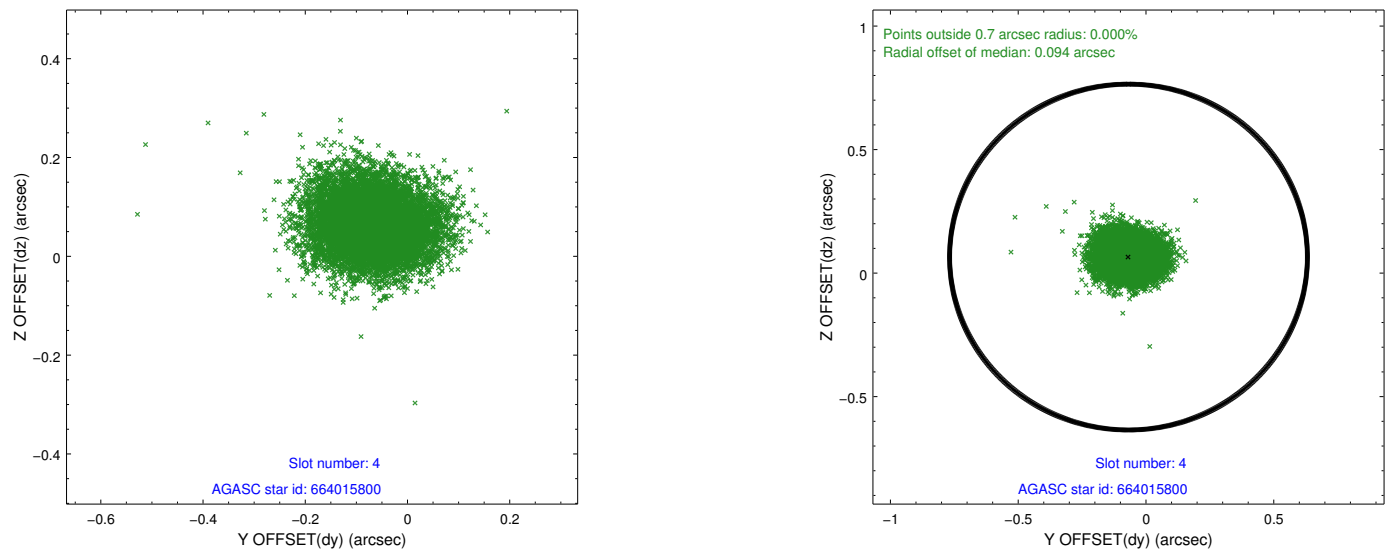
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	4435	-0.029	-0.065	0.007	0.011	0.000000	0.000000	-766.01	-1734.80
1	FID	ACIS-S-4	7.19	4434	0.165	0.032	0.006	0.011	0.000000	0.000000	2147.37	173.53
2	FID	ACIS-S-5	7.23	4435	-0.167	0.042	0.007	0.011	0.000000	0.000000	-1818.69	167.49
3	GUIDE	664013280	8.57	8871	0.070	-0.160	0.077	0.129	260.370956	-0.768322	-1111.88	170.71
4	GUIDE	664015800	9.12	8864	-0.068	0.065	0.084	0.140	260.129461	-0.165769	-2068.19	-1961.74
5	GUIDE	664016672	8.07	8870	-0.030	-0.020	0.058	0.094	259.561843	-0.764748	902.23	-1933.72
6	GUIDE	664017600	8.04	8867	-0.096	0.051	0.058	0.090	260.331672	-0.649009	-1322.73	-229.84
7	GUIDE	664019872	9.31	8867	0.122	0.070	0.101	0.162	259.520662	-1.285004	2353.52	-738.64

## 2.4 Star Slots

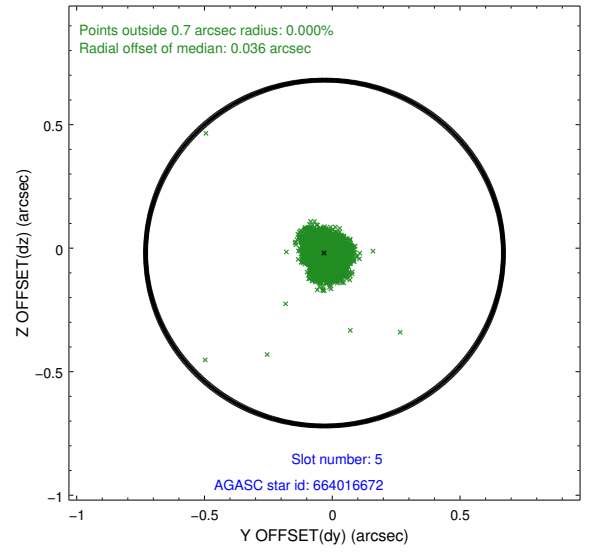
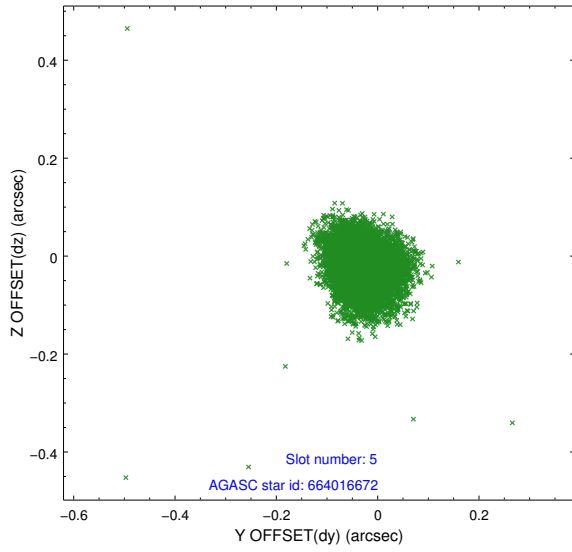
### 2.4.1 Slot 3



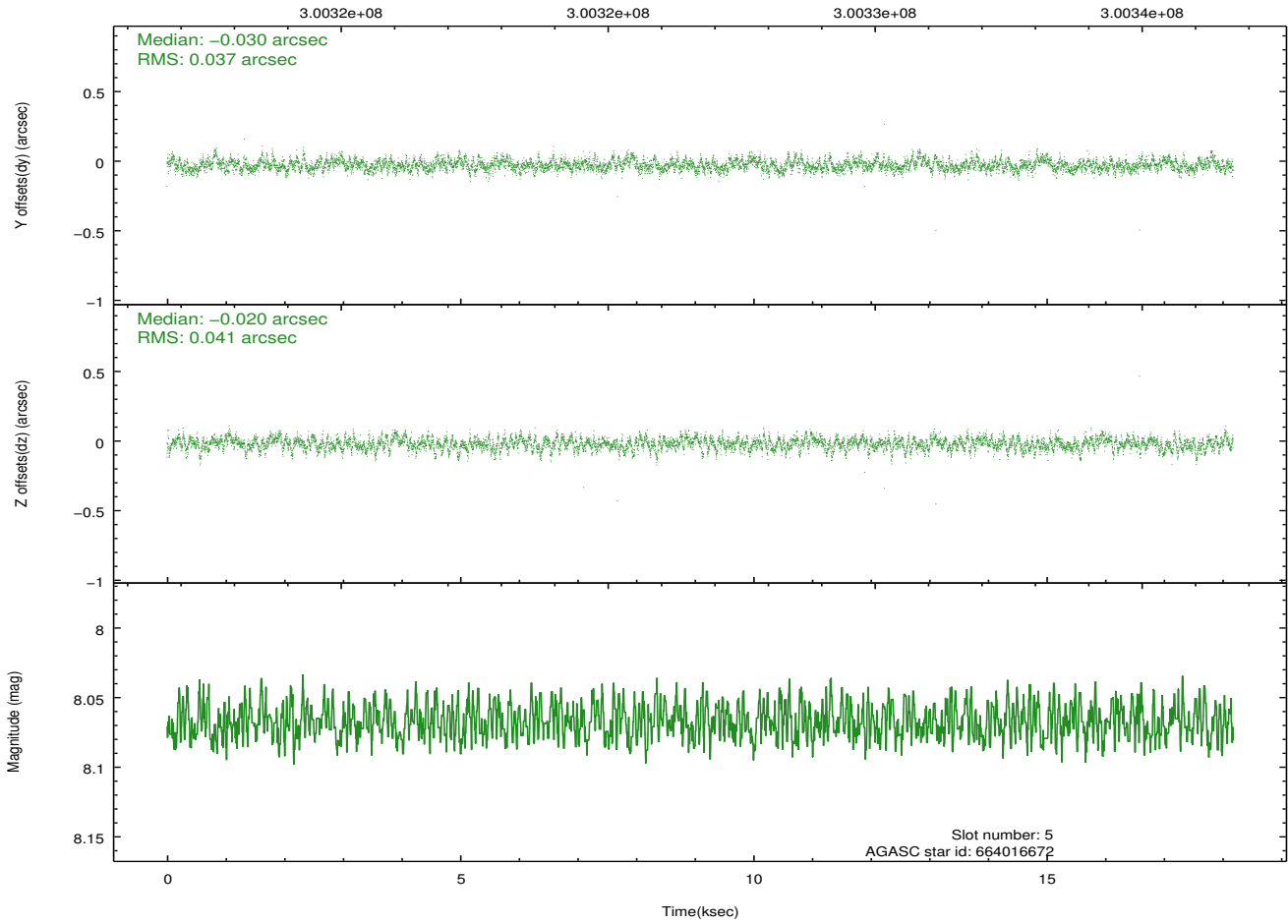
## 2.4.2 Slot 4



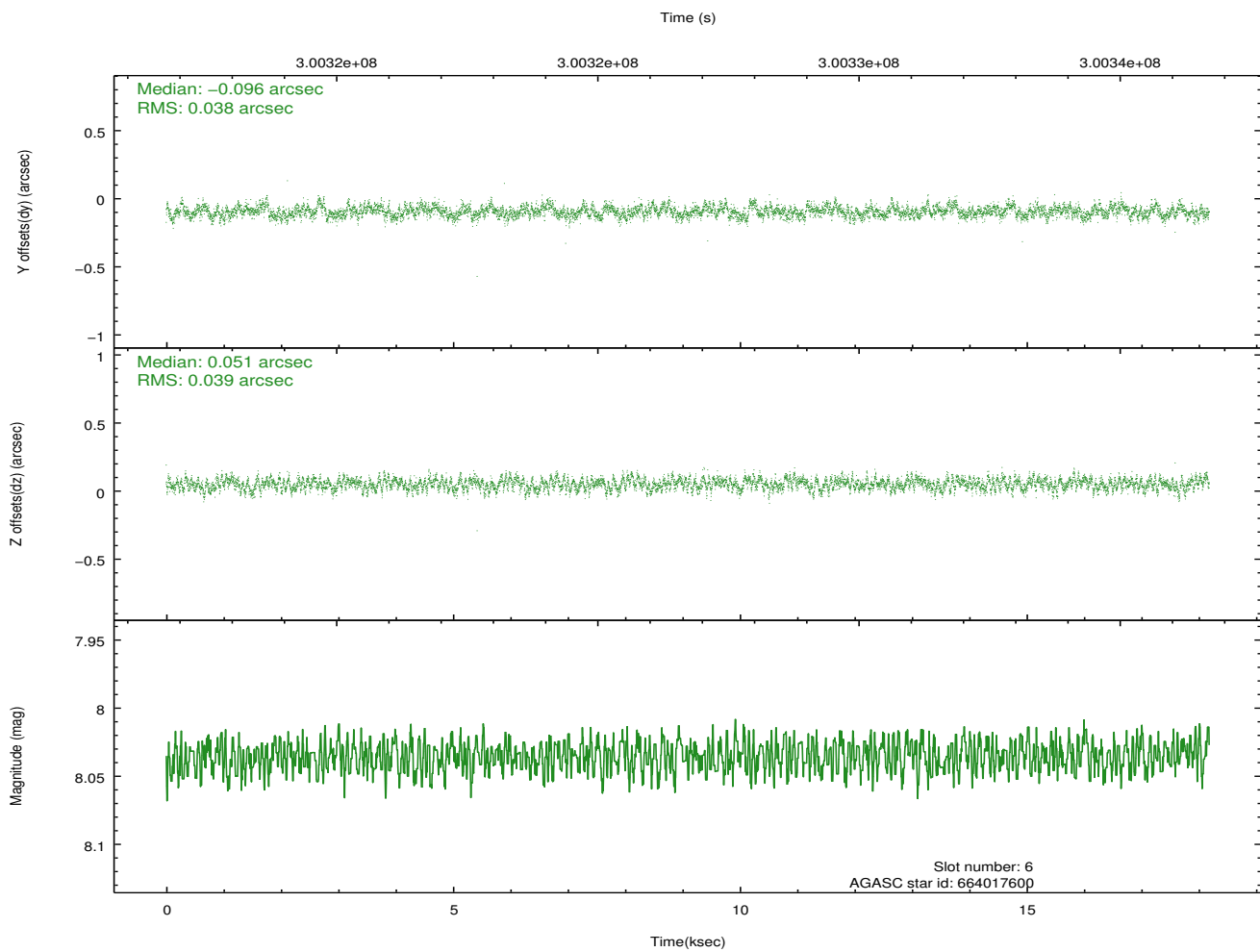
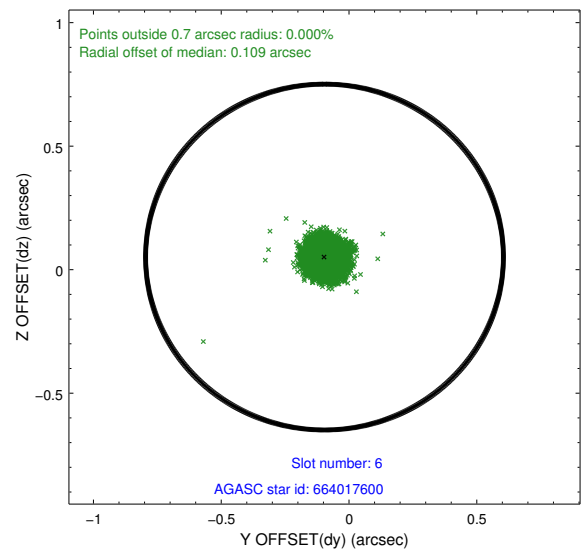
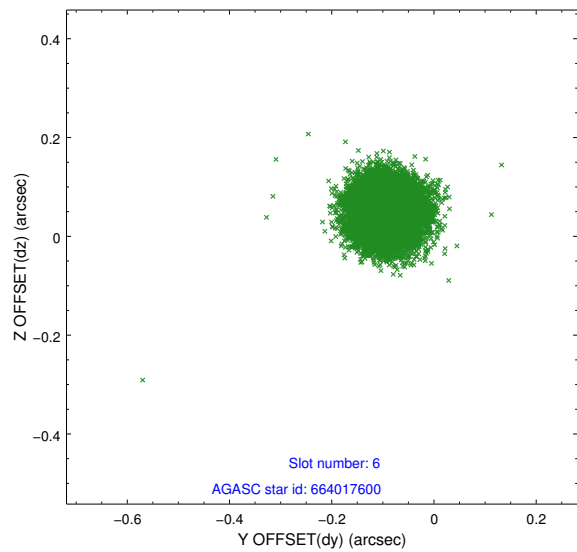
### 2.4.3 Slot 5



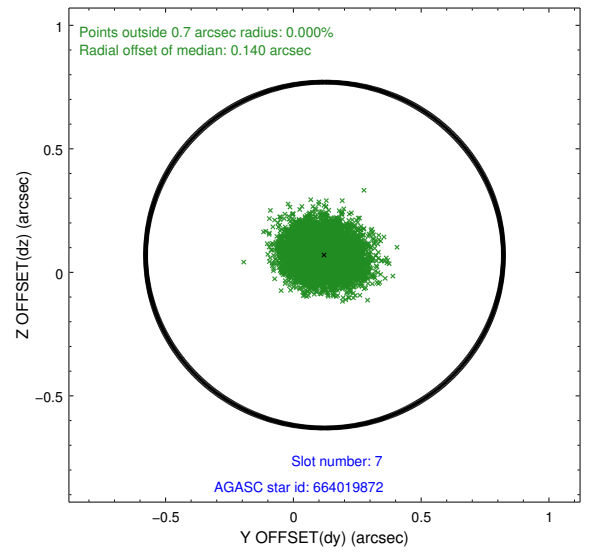
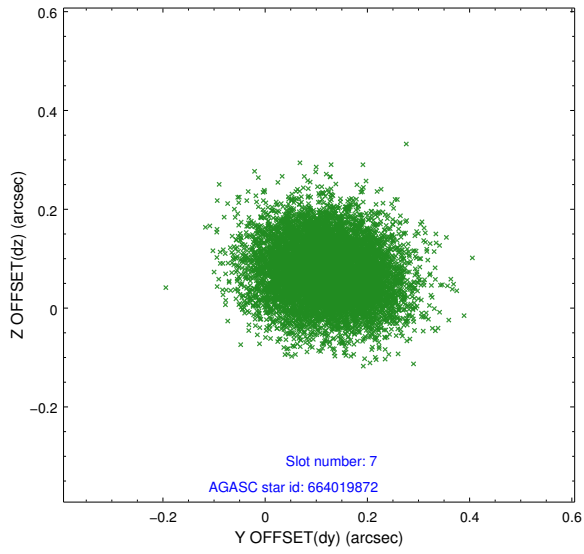
Time (s)



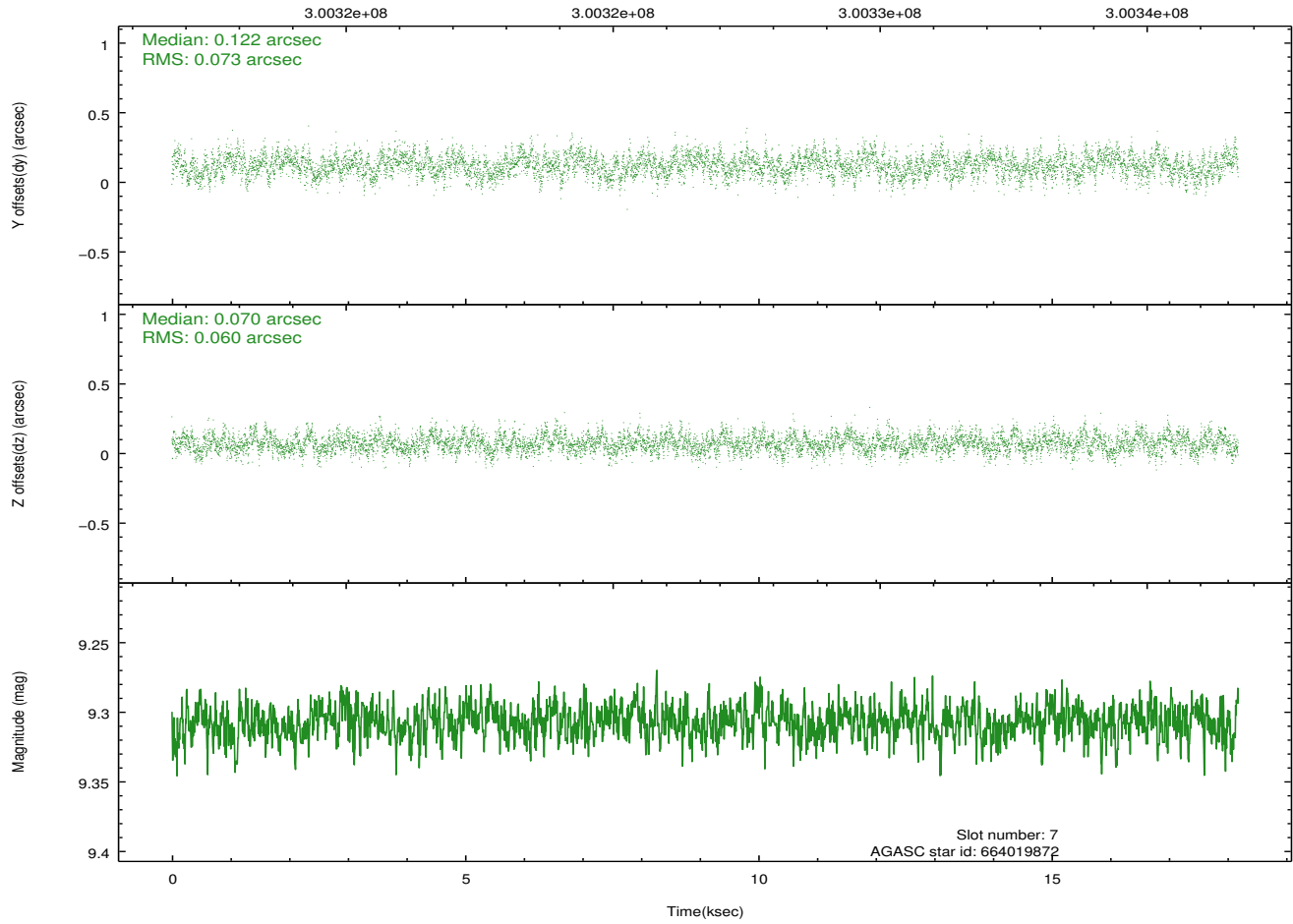
## 2.4.4 Slot 6



### 2.4.5 Slot 7

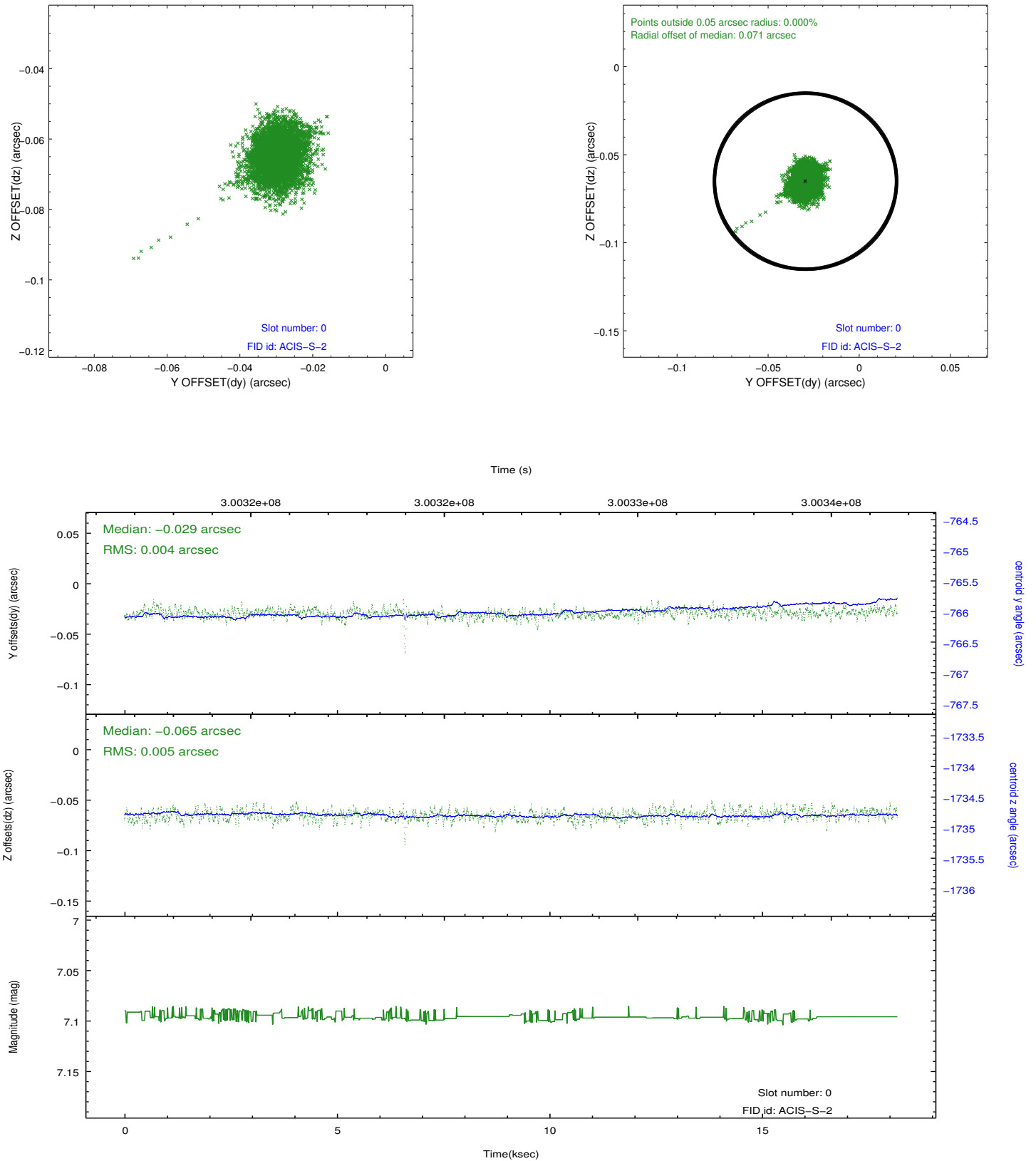


Time (s)

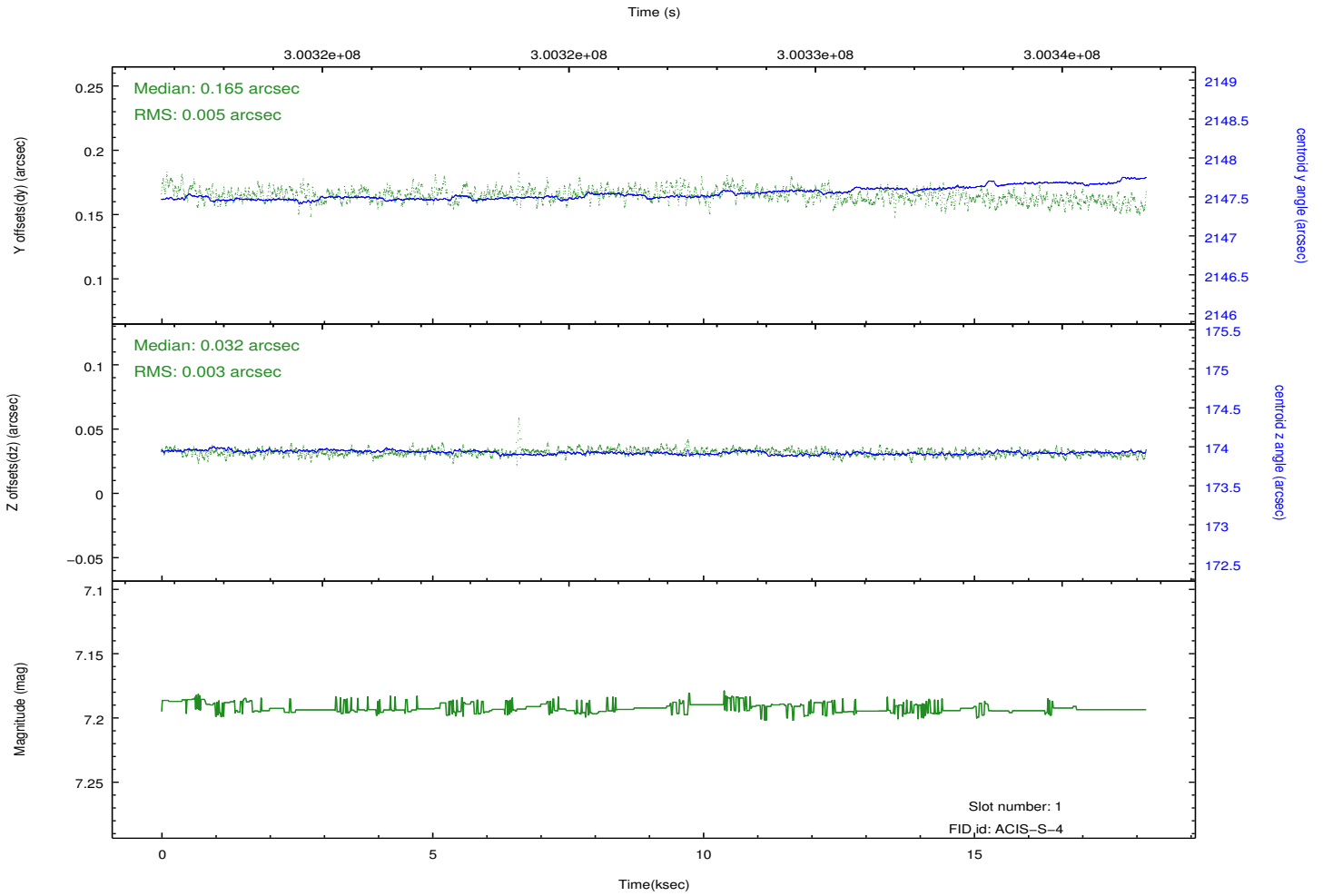
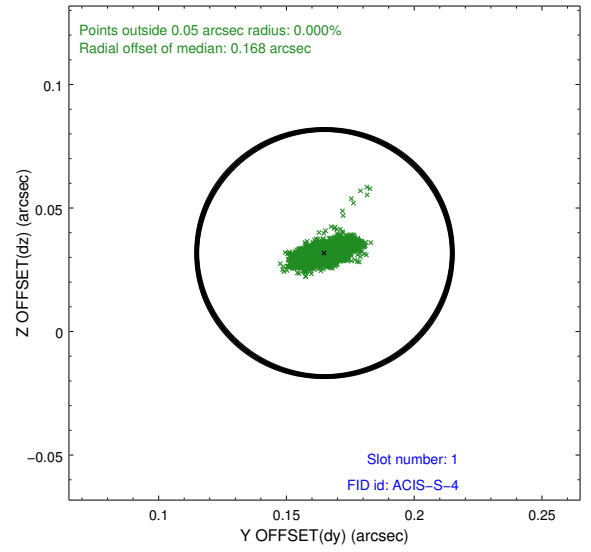
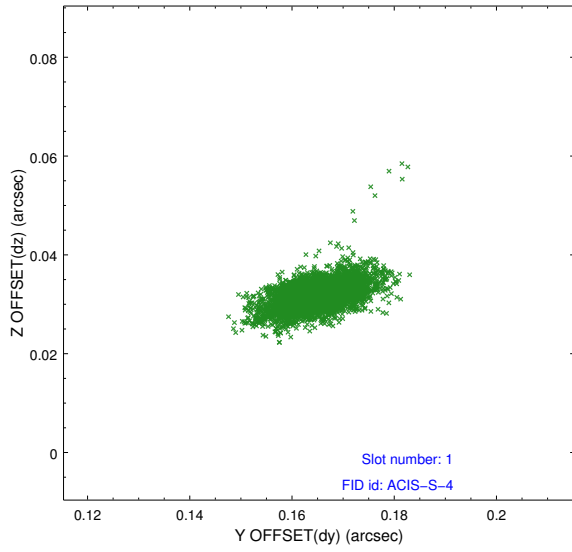


## 2.5 FID Slots

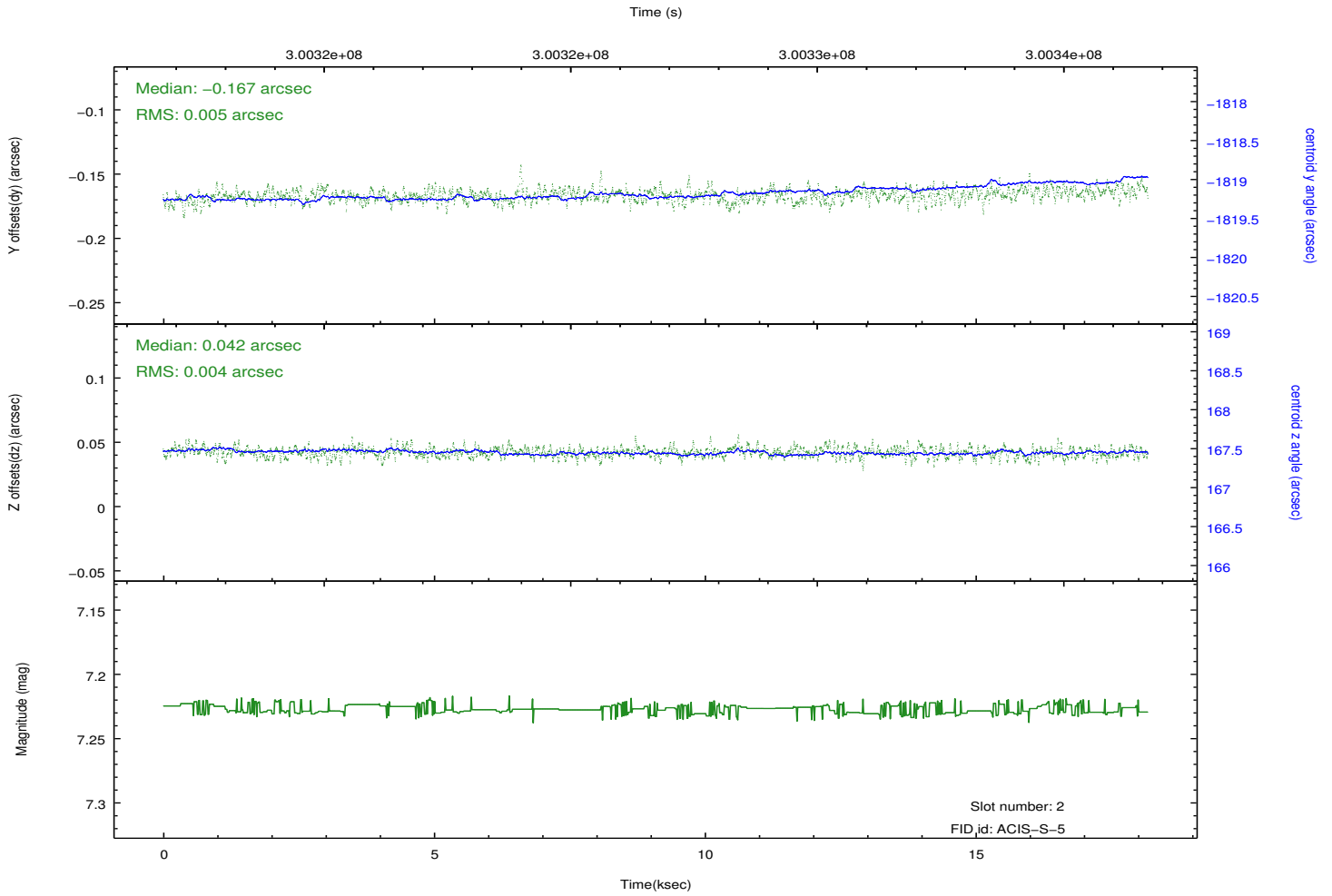
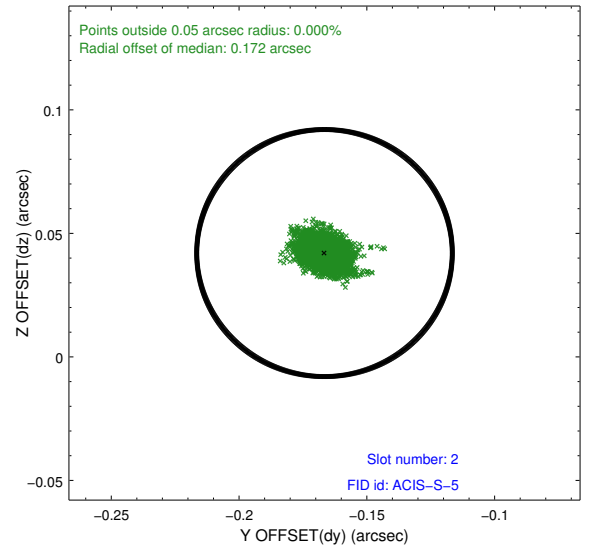
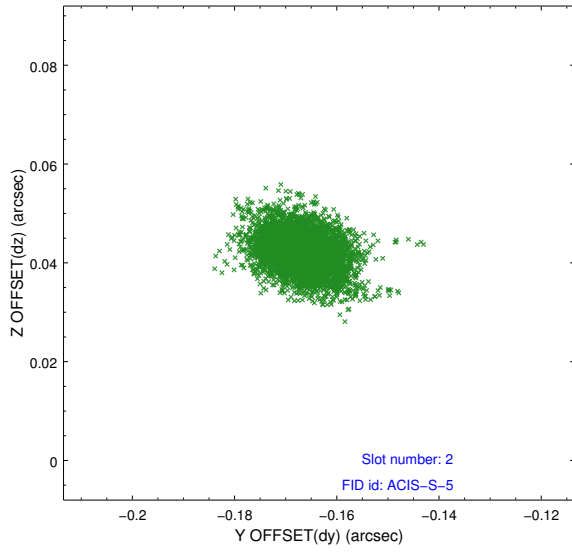
### 2.5.1 Slot 0



## 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)	2012.04.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.1791999

## A.2 Comments

Preferred roll angle request met.