

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 17409 - L2 Version 1  
Chandra X-Ray Center

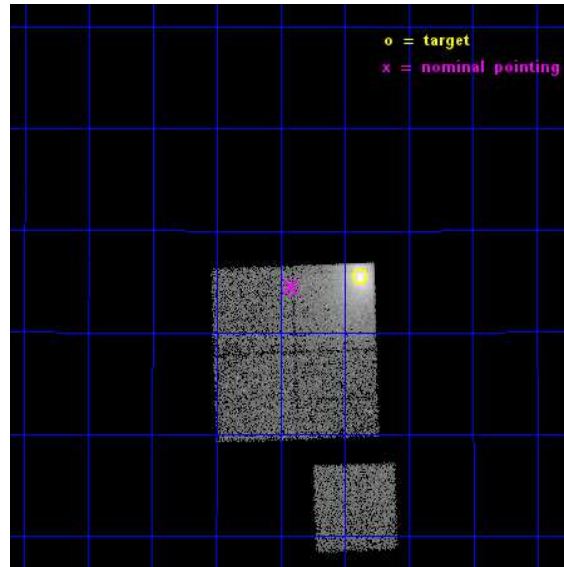
L2 Processing Date : Apr 19 2015

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# 1 Front

seq_num	890109	Sequence number
obs_id	17409	Observation id
title	AO-16 Calibration Observations of A1795	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.35381326246	Nominal RA [deg]
dec_nom	26.575032503082	Nominal Dec [deg]
roll_nom	178.19861182219	Nominal Roll [deg]
revision	1	Processing version of data
ontime	14777.20183444	Sum of GTIs [s]
livetime	14584.126813656	Livetime [s]
ontime0	14777.20183444	Sum of GTIs [s]
ontime1	14777.242874384	Sum of GTIs [s]
ontime2	14777.283914447	Sum of GTIs [s]
ontime3	14777.324954391	Sum of GTIs [s]
ontime6	14777.160794377	Sum of GTIs [s]
l2events	82333	Number of level 2 events

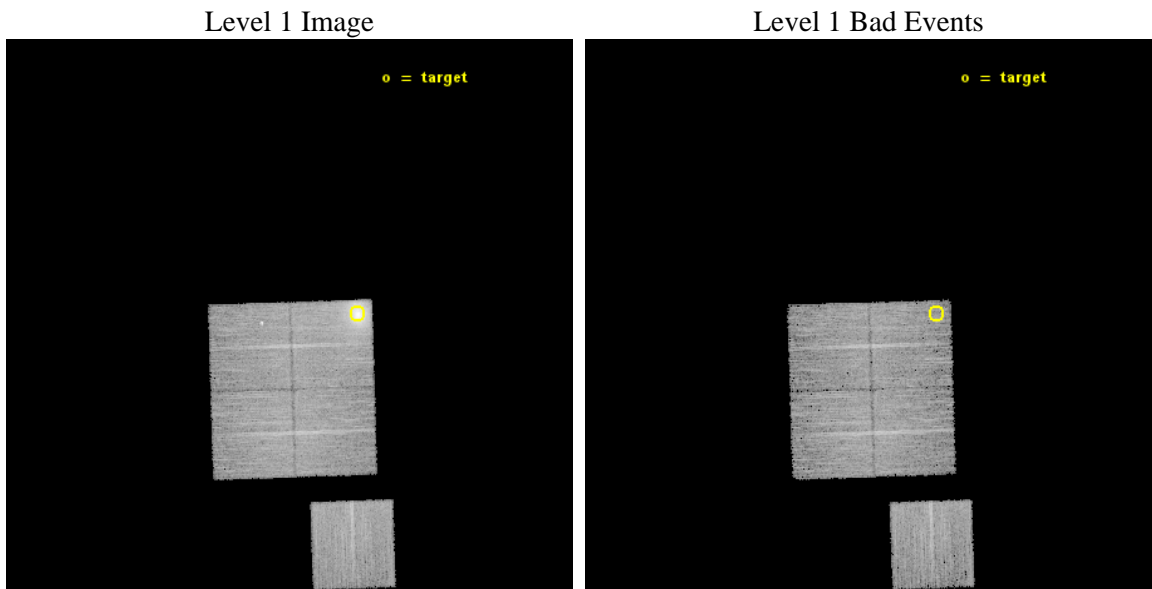




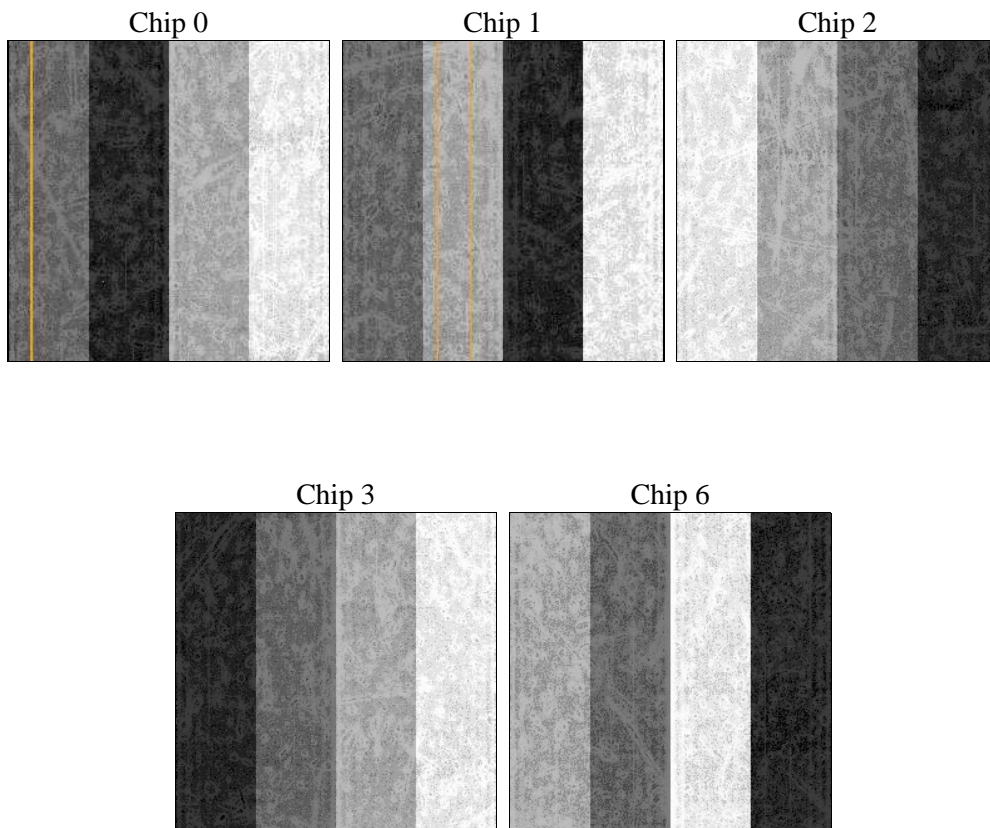
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	14777.20183444	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	14777.20183444	Sum of GTIs [s]
date	2015-04-19T16:14:57	Date and time of file creation	ontime1	14777.242874384	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	14777.283914447	Sum of GTIs [s]
			ontime3	14777.324954391	Sum of GTIs [s]
			ontime6	14777.160794377	Sum of GTIs [s]
			l1events	399401	Number of level 1 events

### 2.1.4 Events

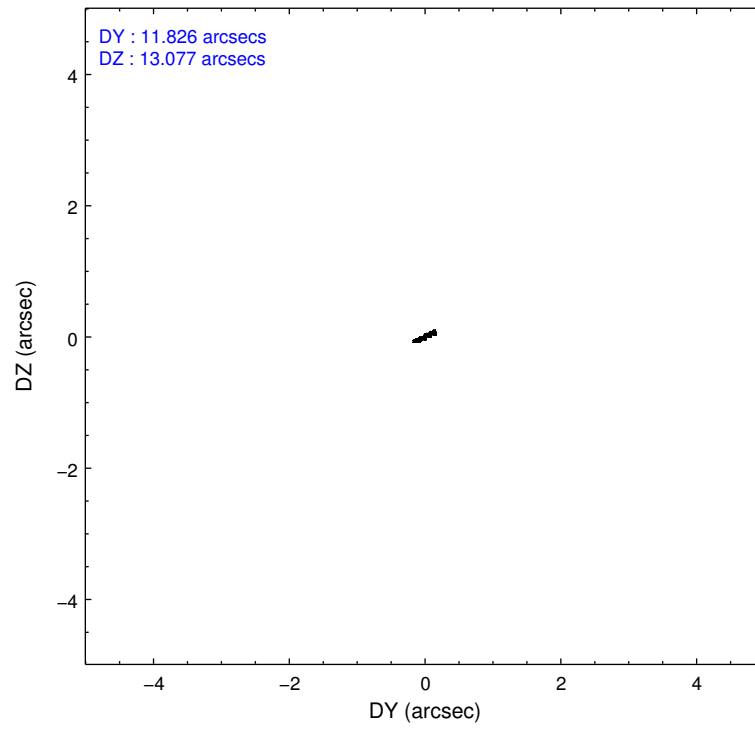
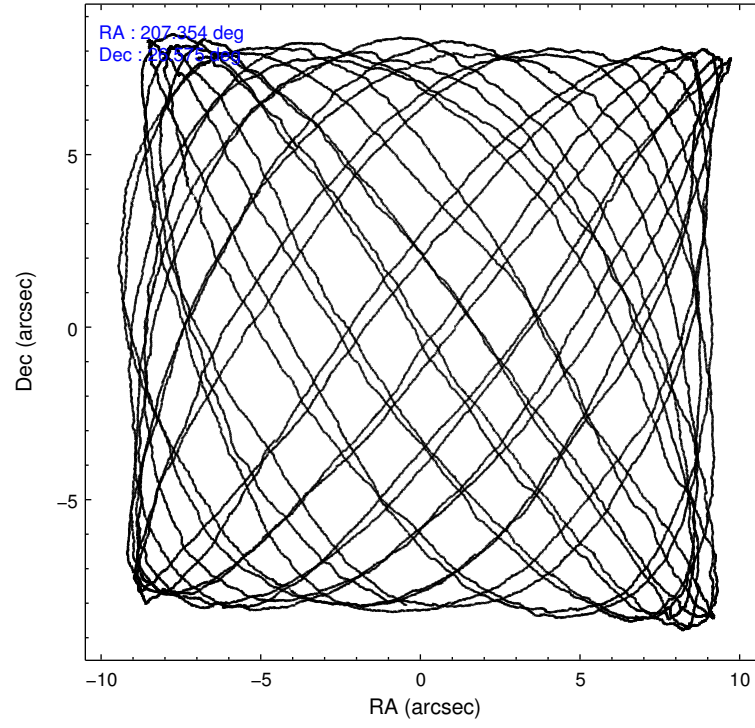
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	118656	66796	70308	72363	71278
rejected events	59981	57046	62159	64665	63194
rejected %	50%	85%	88%	89%	88%

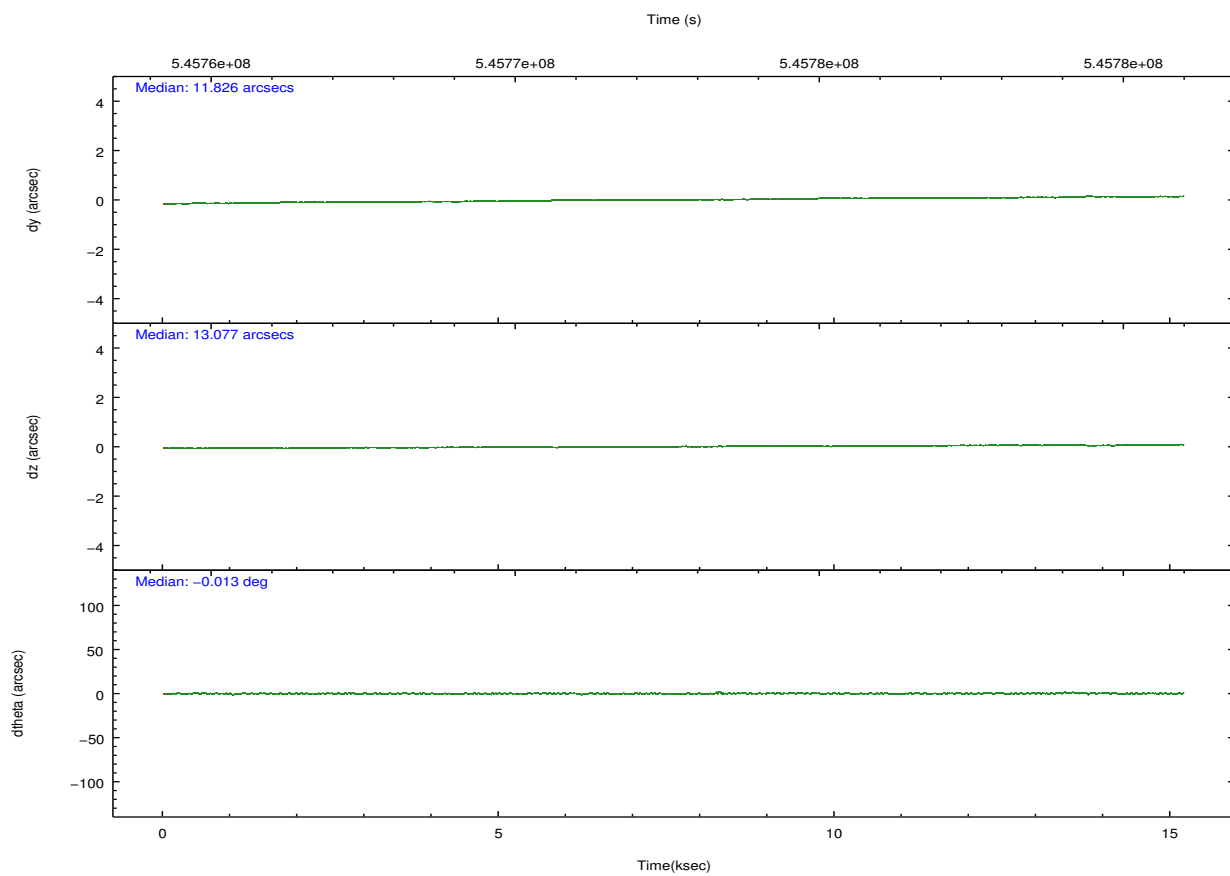
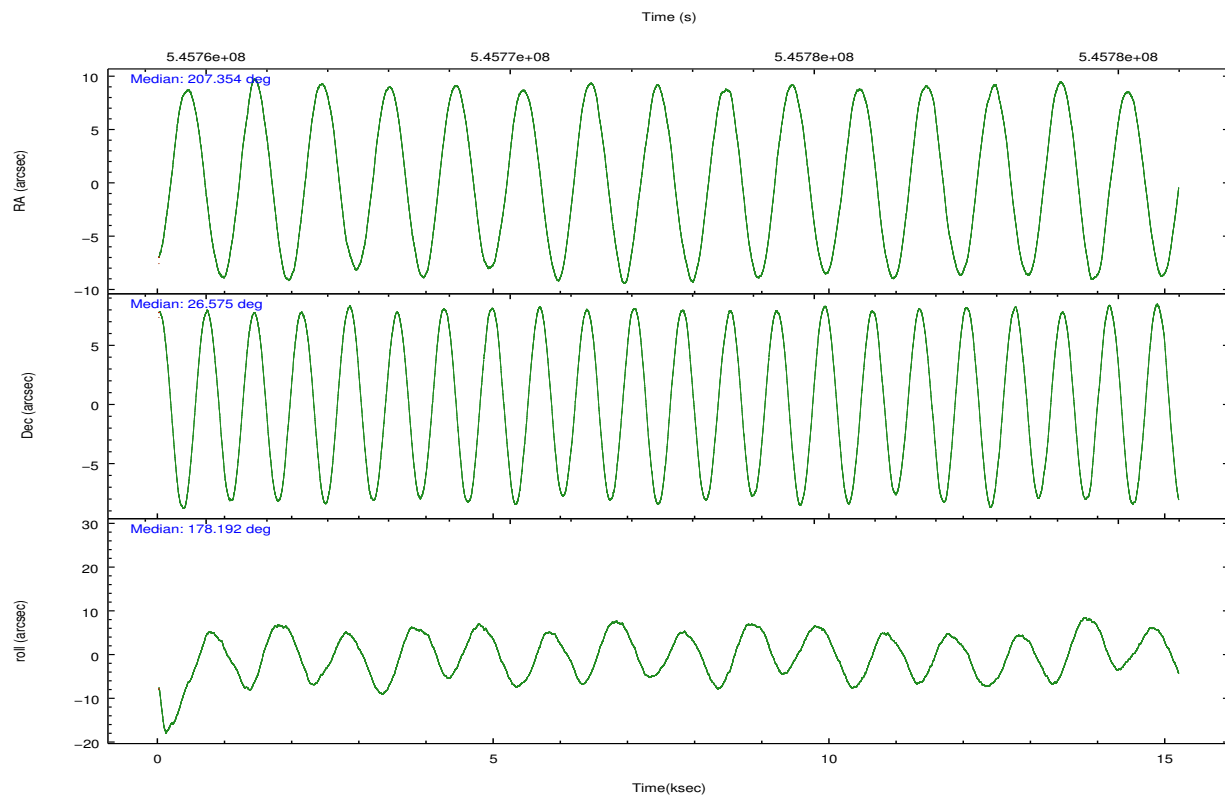
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	42552	3949	3322	2732	2456
	35%	5%	4%	3%	3%
grade 1 events	180	38	29	34	13
	0%	0%	0%	0%	0%
grade 2 events	7750	2174	1748	1693	2058
	6%	3%	2%	2%	2%
grade 3 events	2579	790	743	797	762
	2%	1%	1%	1%	1%
grade 4 events	2505	747	812	788	722
	2%	1%	1%	1%	1%
grade 5 events	3190	3155	2808	3502	3199
	2%	4%	3%	4%	4%
grade 6 events	3301	2090	1525	1688	2087
	2%	3%	2%	2%	2%
grade 7 events	56599	53853	59321	61129	59981
	47%	80%	84%	84%	84%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	207.380980	207.3538132624584	Subarray requested	NONE	NONE
[deg] Pointing Dec	26.588165	26.57503250308166	Alternating exposures requested	N	N
[deg] Pointing Roll	177.977755	178.1986118221886	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	544233667.184000	544233667.184000			
[s] Window stop time (MET)	546739267.184000	546739267.184000			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-254.359963	-254.3657361129205			
[mm] SIM translation stage offset	20.7675	20.77328310999084			
[s] Observation start time (MET)	545765201.184000	545764824.80977			
Observation start date	2015-04-18T17:25:34	2015-04-18T17:20:24			
[s] Observation end time (MET)	545780201.184000	545780967.02317			
Observation end date	2015-04-18T21:35:34	2015-04-18T21:49:27			
Read mode	TIMED	TIMED			

## 2.3 Aspect



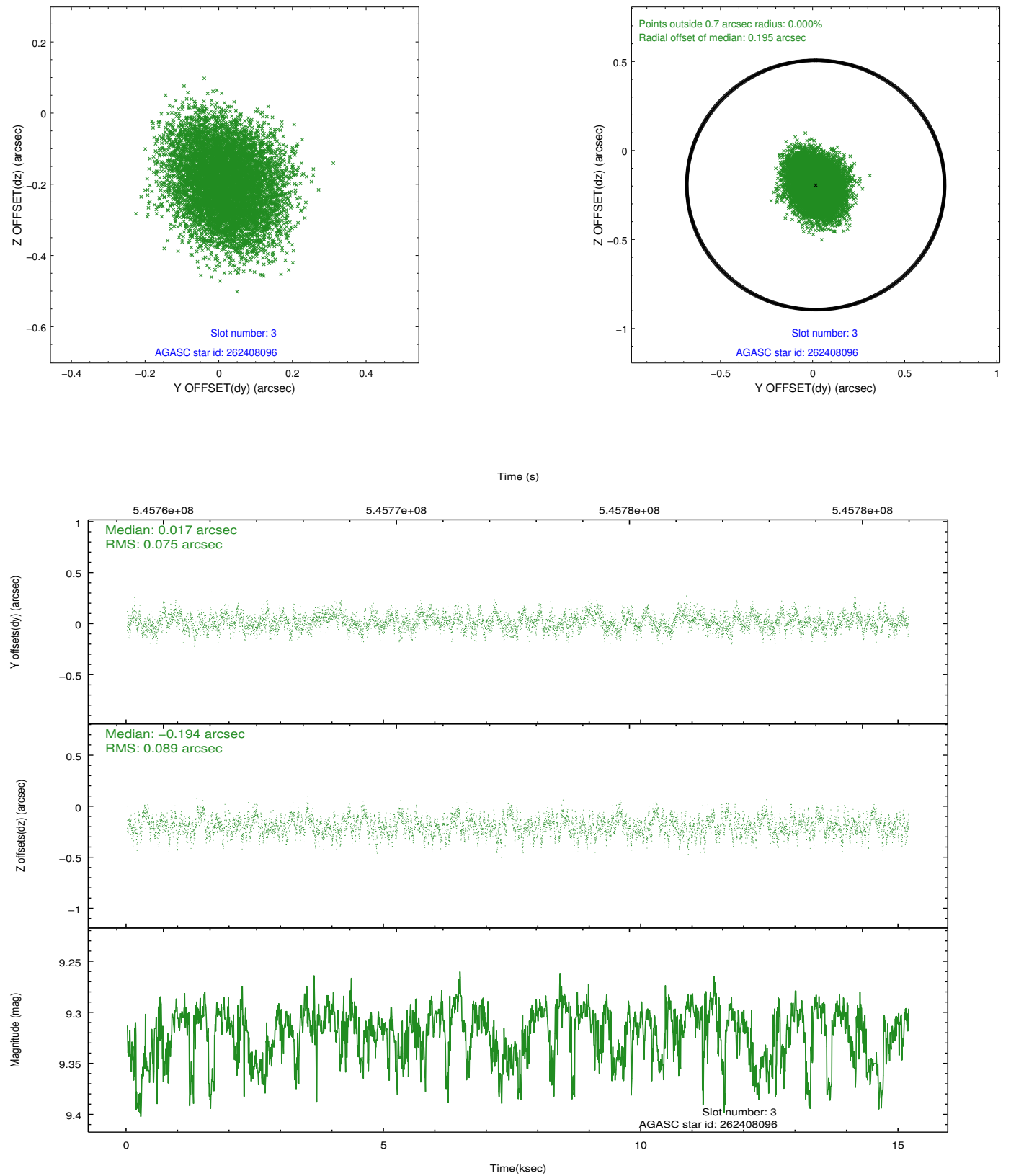


### Slot Statistics

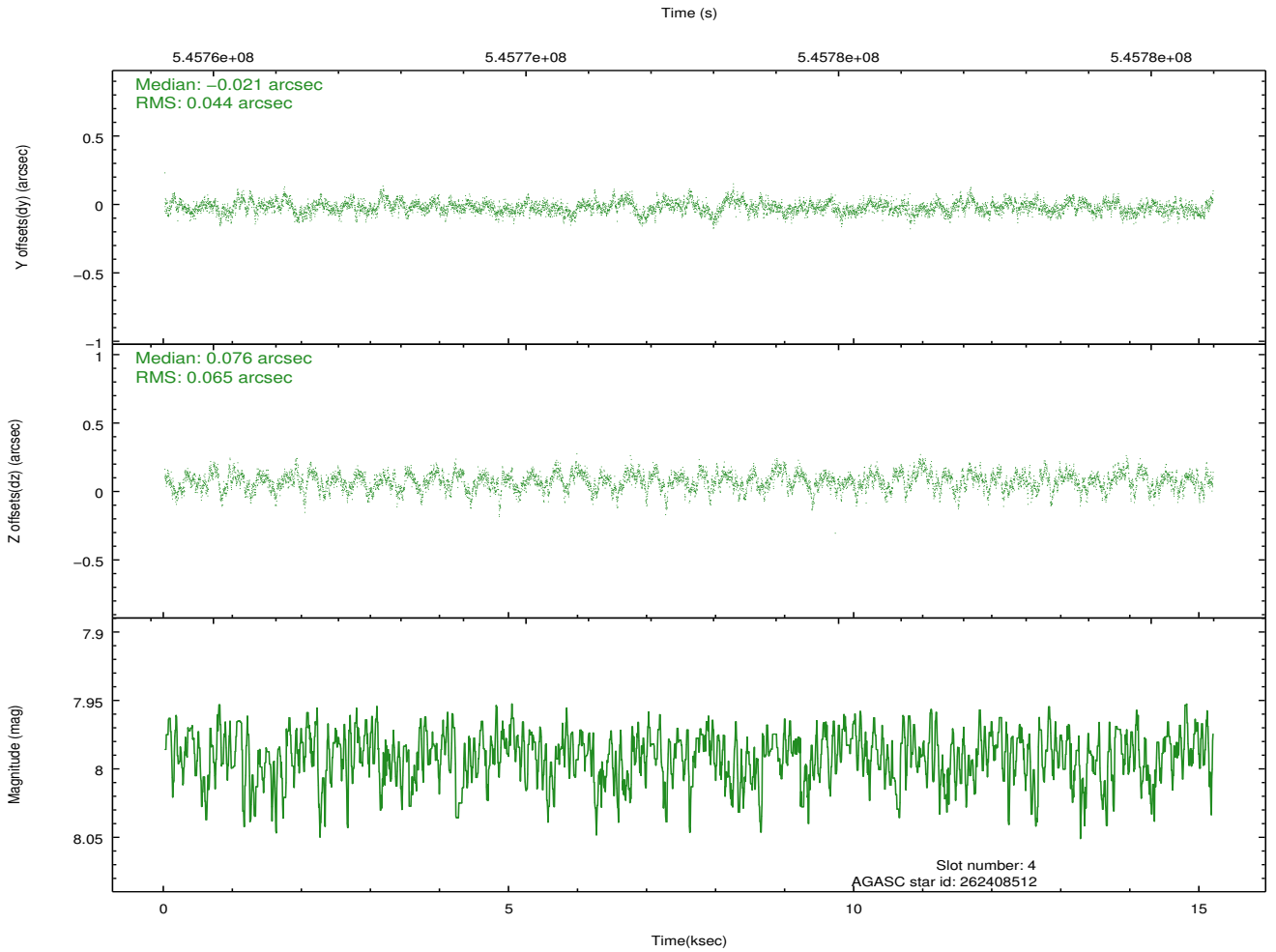
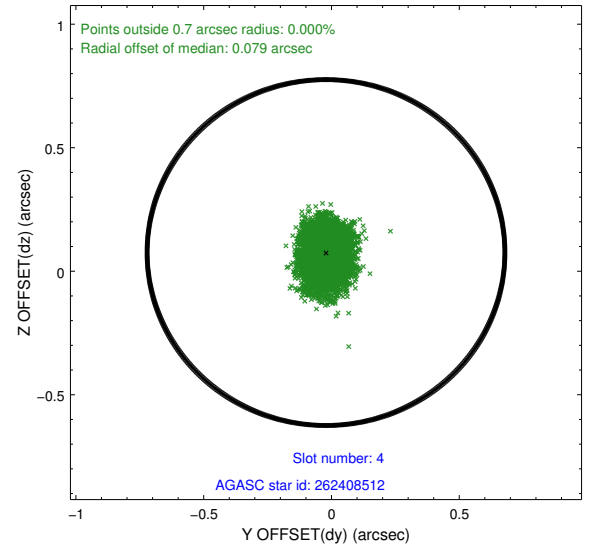
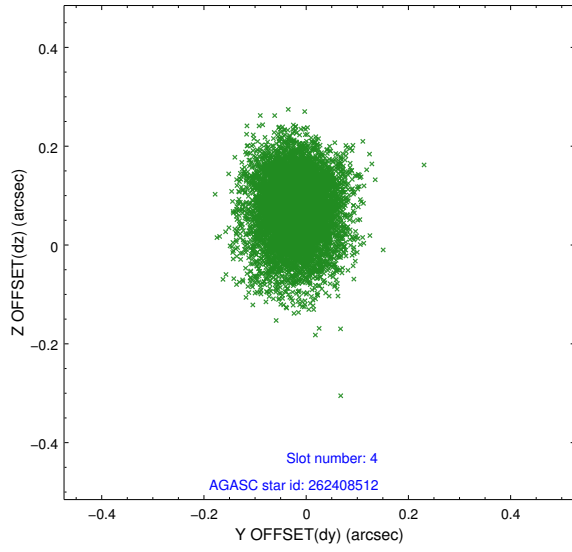
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.30	3704	-0.092	-0.645	0.009	0.015	0.000000	0.000000	-765.05	-419.00
1	FID		ACIS-I-4	7.27	3704	0.226	0.225	0.006	0.011	0.000000	0.000000	2148.84	1488.54
2	FID		ACIS-I-5	7.28	3704	-0.235	0.488	0.008	0.013	0.000000	0.000000	-1820.02	1488.29
3	GUIDE	used	262408096	9.32	7404	0.017	-0.194	0.125	0.199	207.011678	26.515421	1180.48	302.09
4	GUIDE	used	262408512	7.99	7407	-0.021	0.076	0.082	0.138	207.800210	27.128796	-1273.01	-1994.39
5	GUIDE	used	262408936	9.67	7401	-0.047	0.104	0.224	0.358	207.154731	26.726554	744.44	-472.38
6	GUIDE	used	262409624	10.10	7400	0.132	-0.024	0.187	0.305	207.610037	27.074851	-671.25	-1777.37
7	GUIDE	used	262414456	9.27	7398	-0.082	0.032	0.182	0.278	208.043290	26.129682	-2197.66	1568.68

## 2.4 Star Slots

### 2.4.1 Slot 3

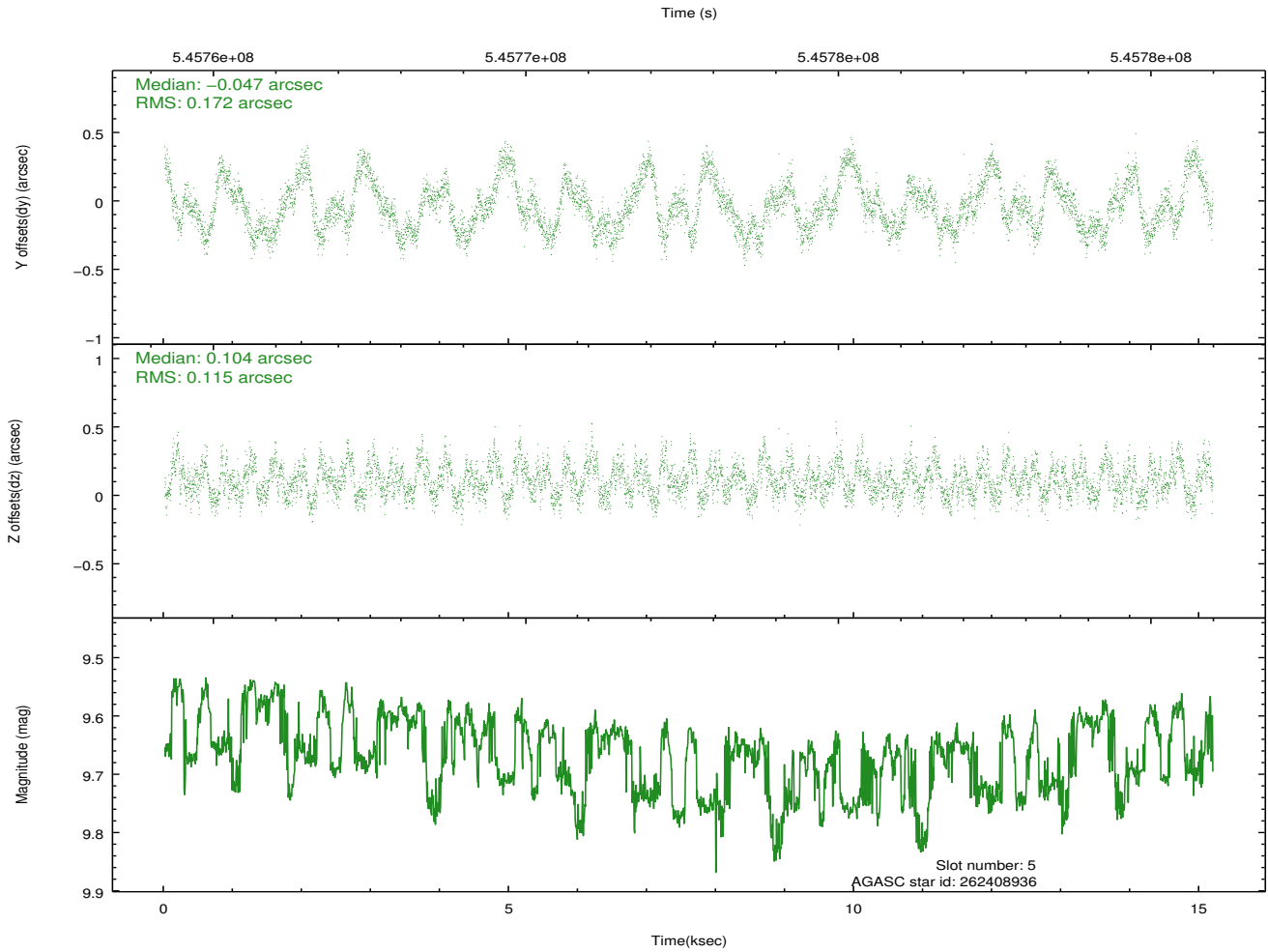
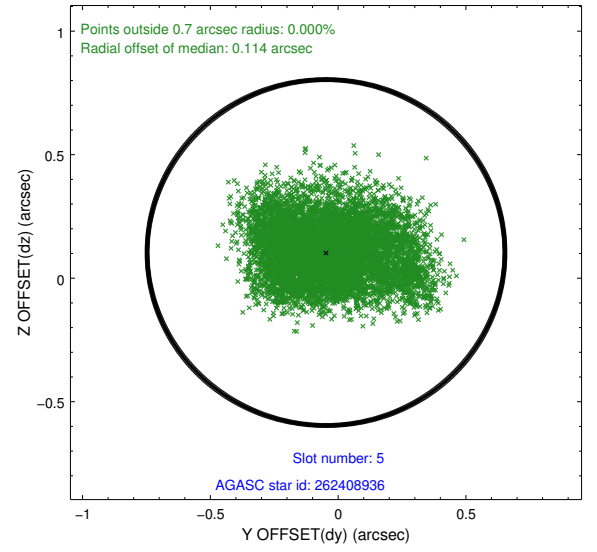
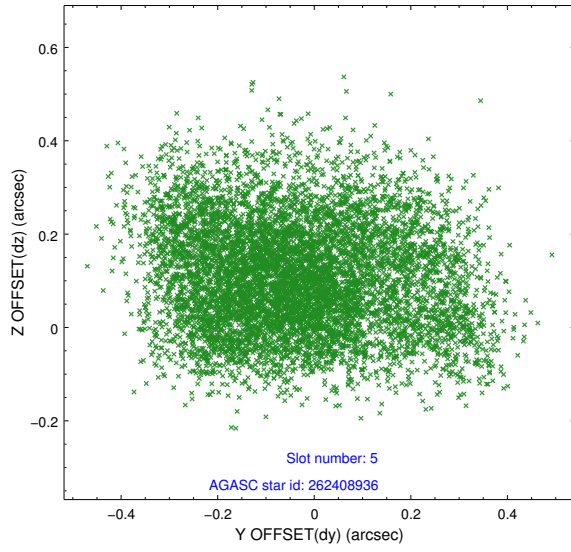


## 2.4.2 Slot 4

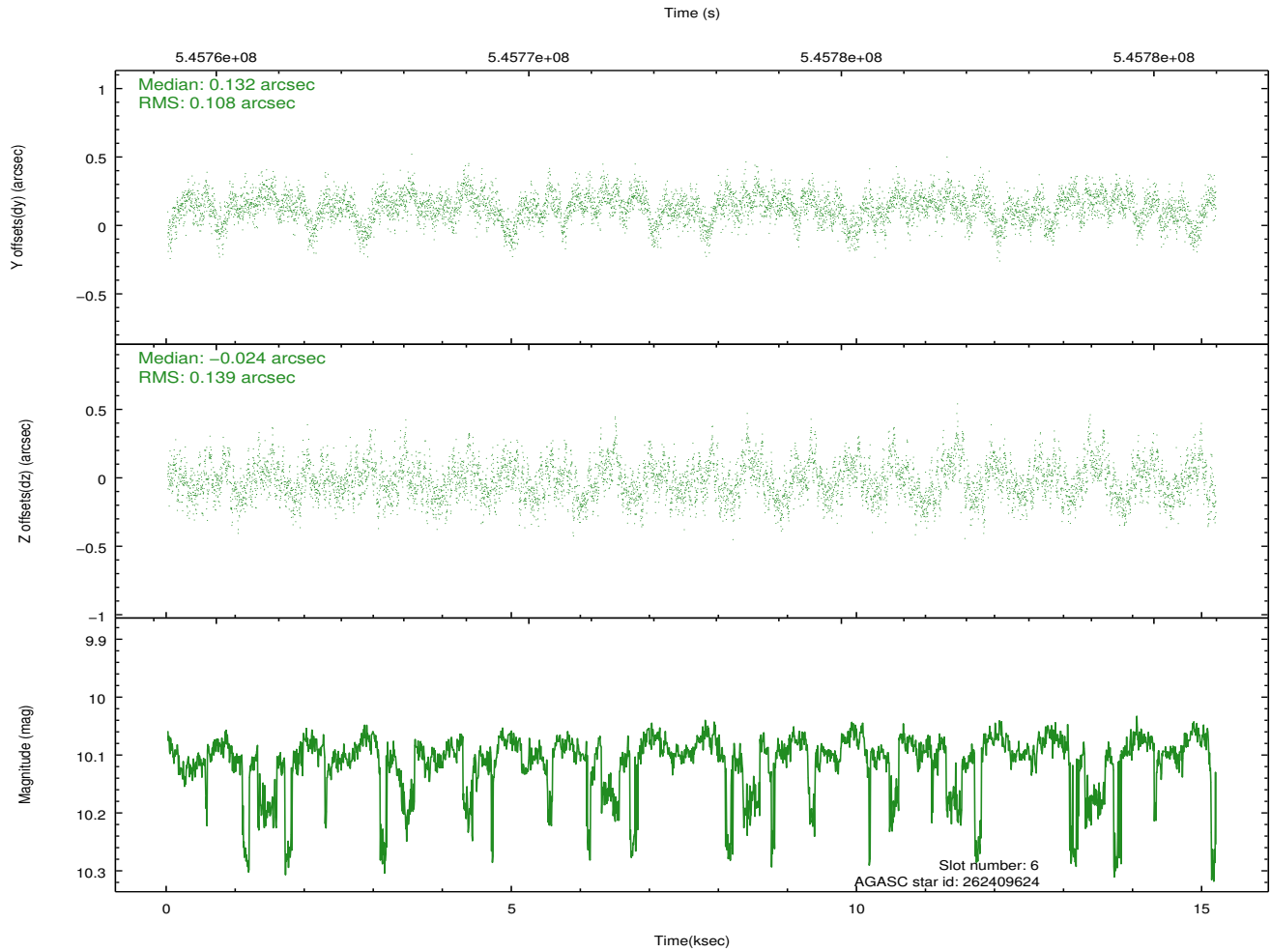
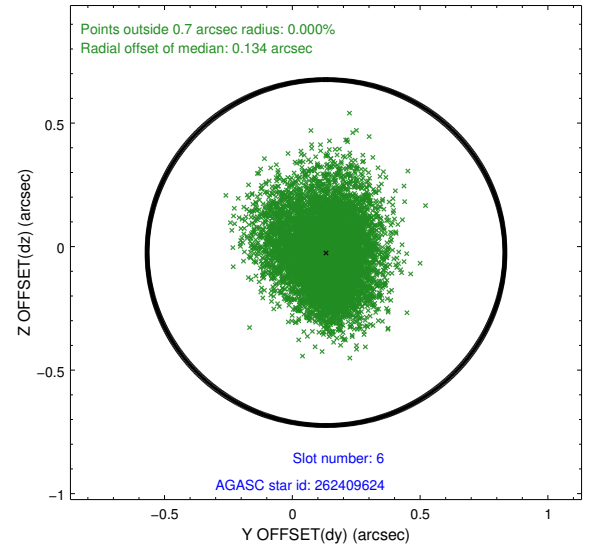
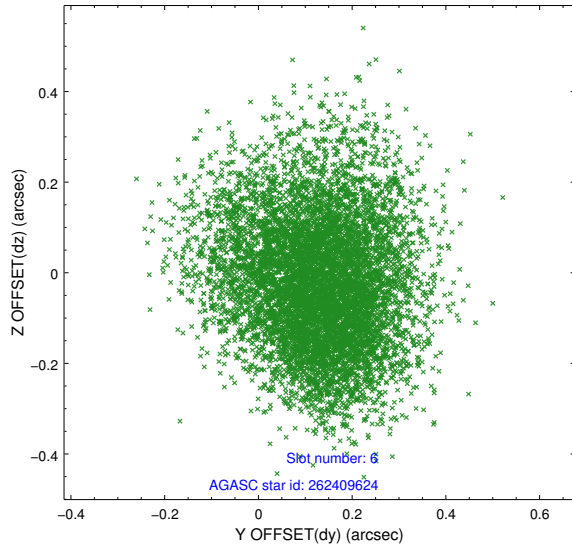




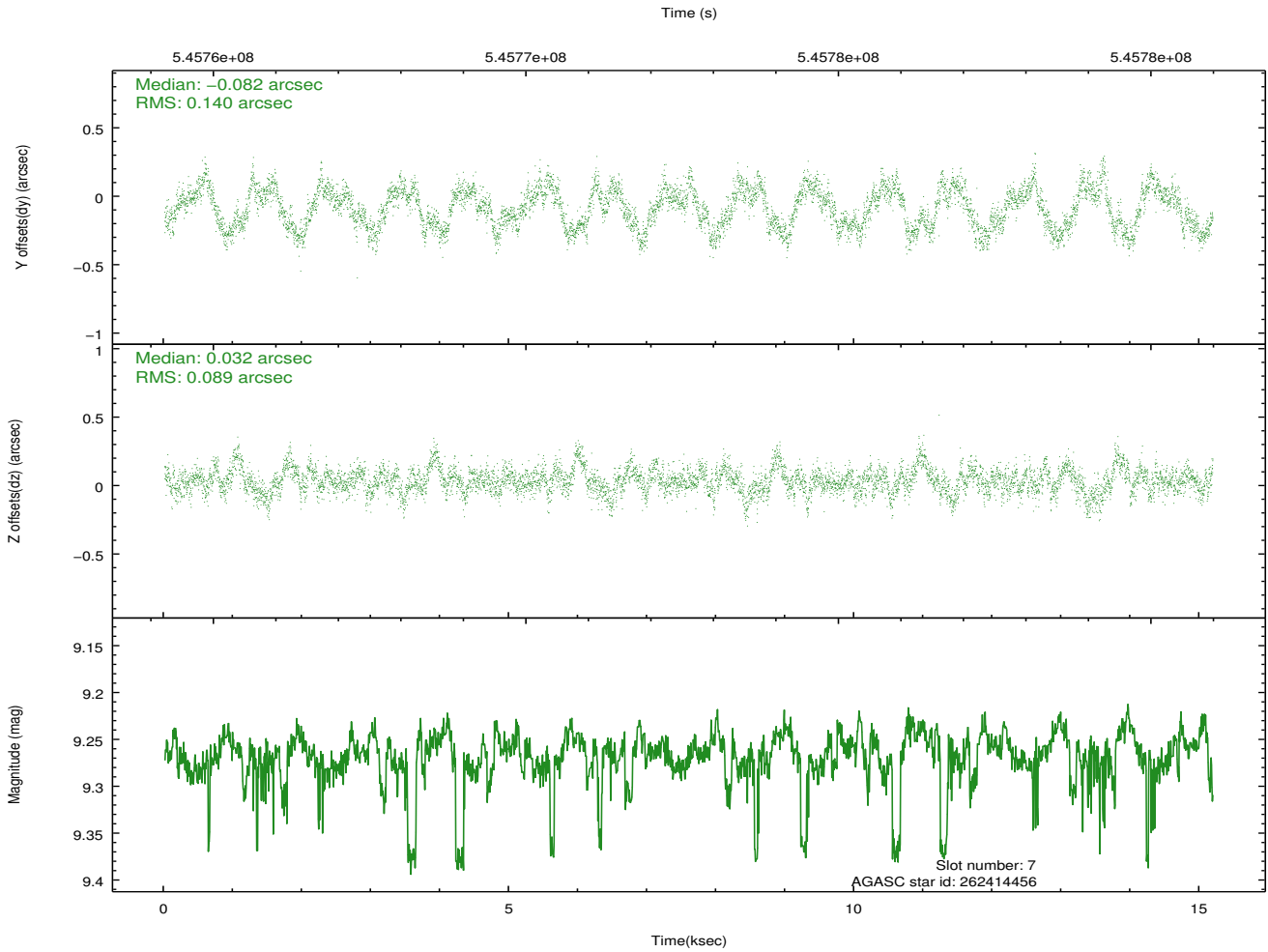
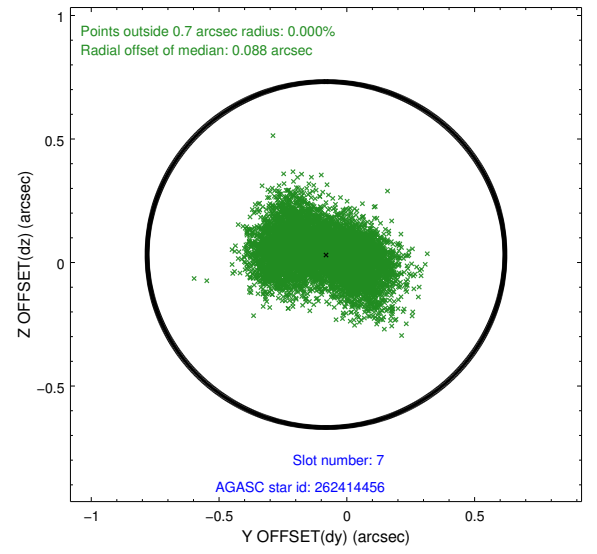
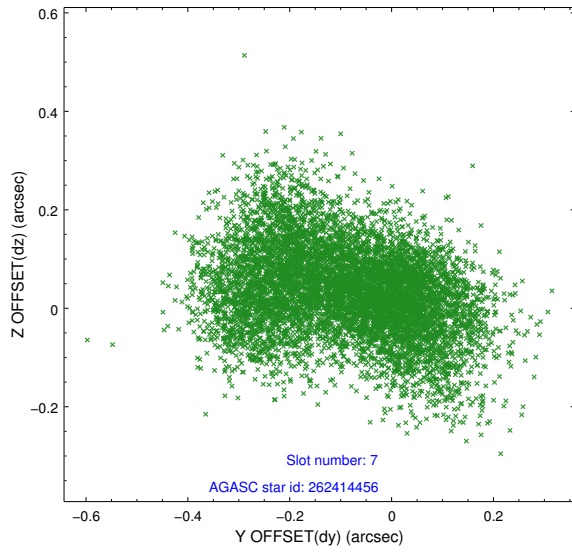
### 2.4.3 Slot 5



## 2.4.4 Slot 6

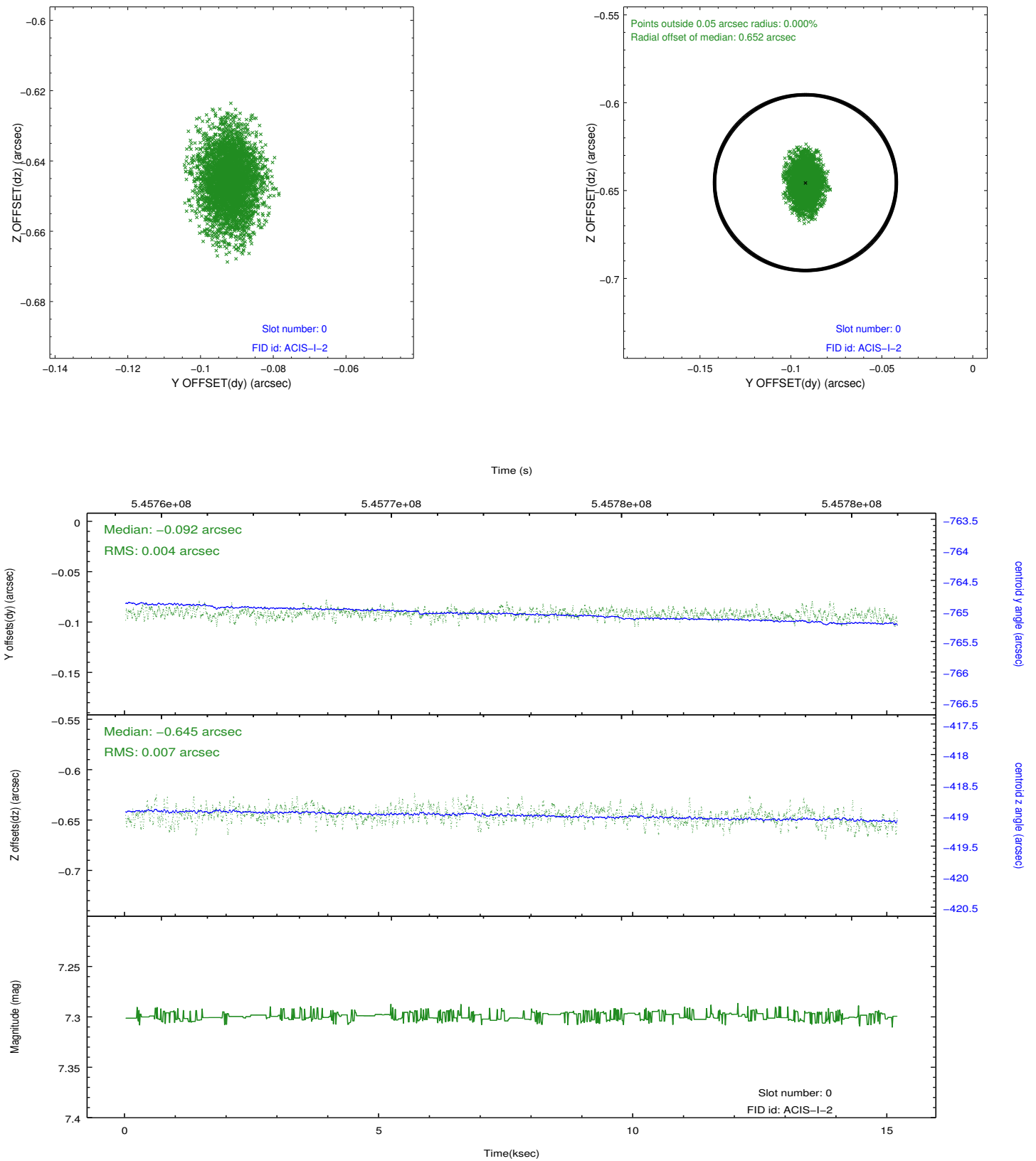


## 2.4.5 Slot 7

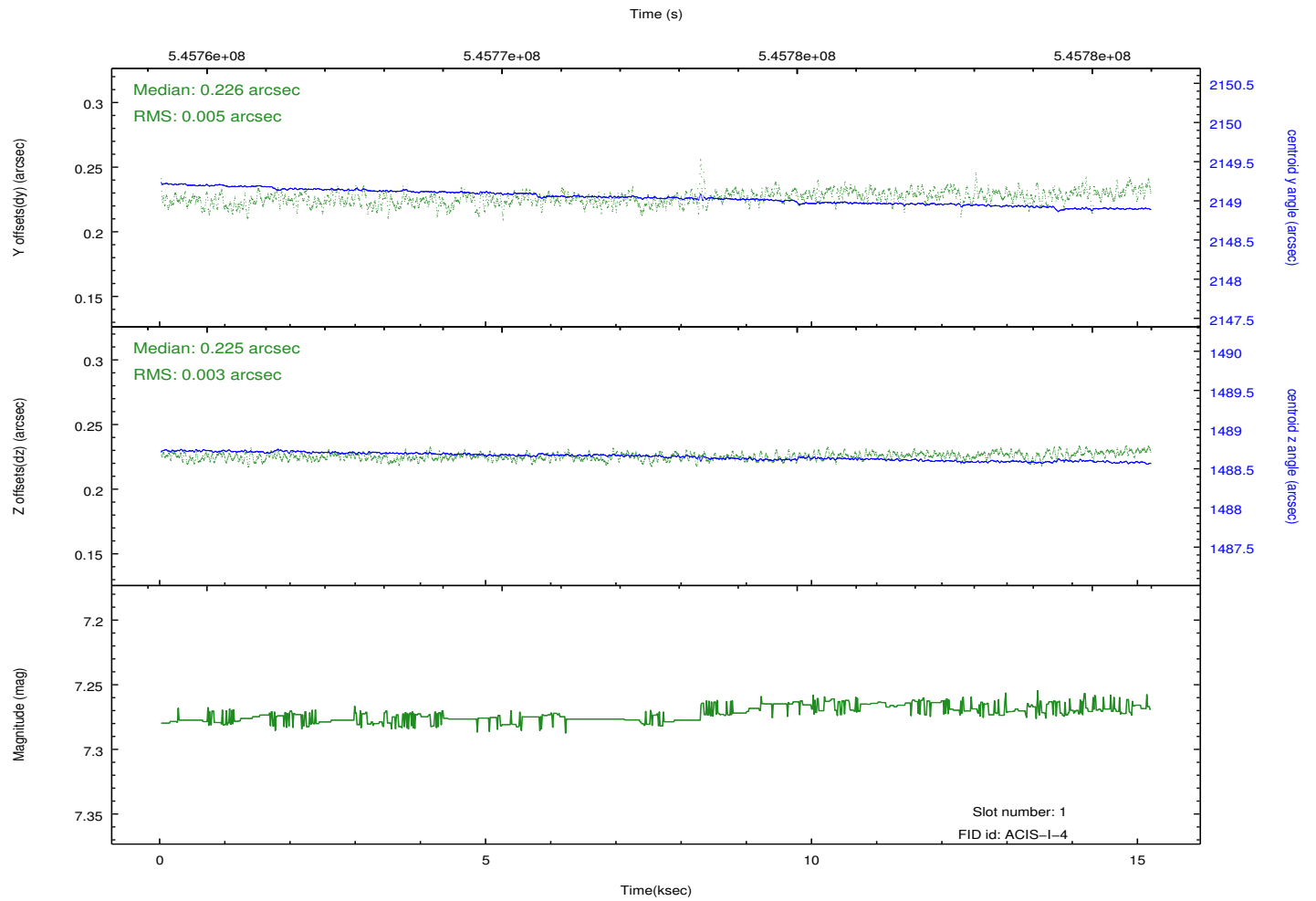
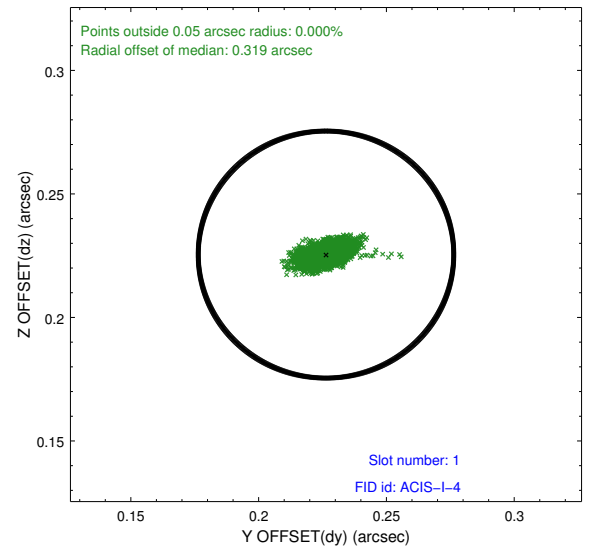
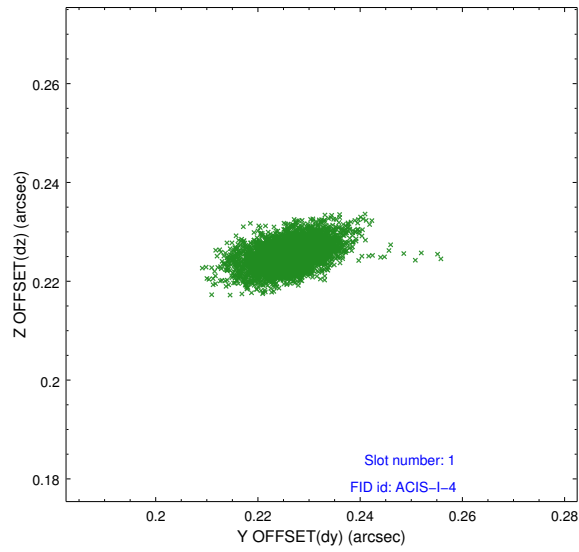


## 2.5 FID Slots

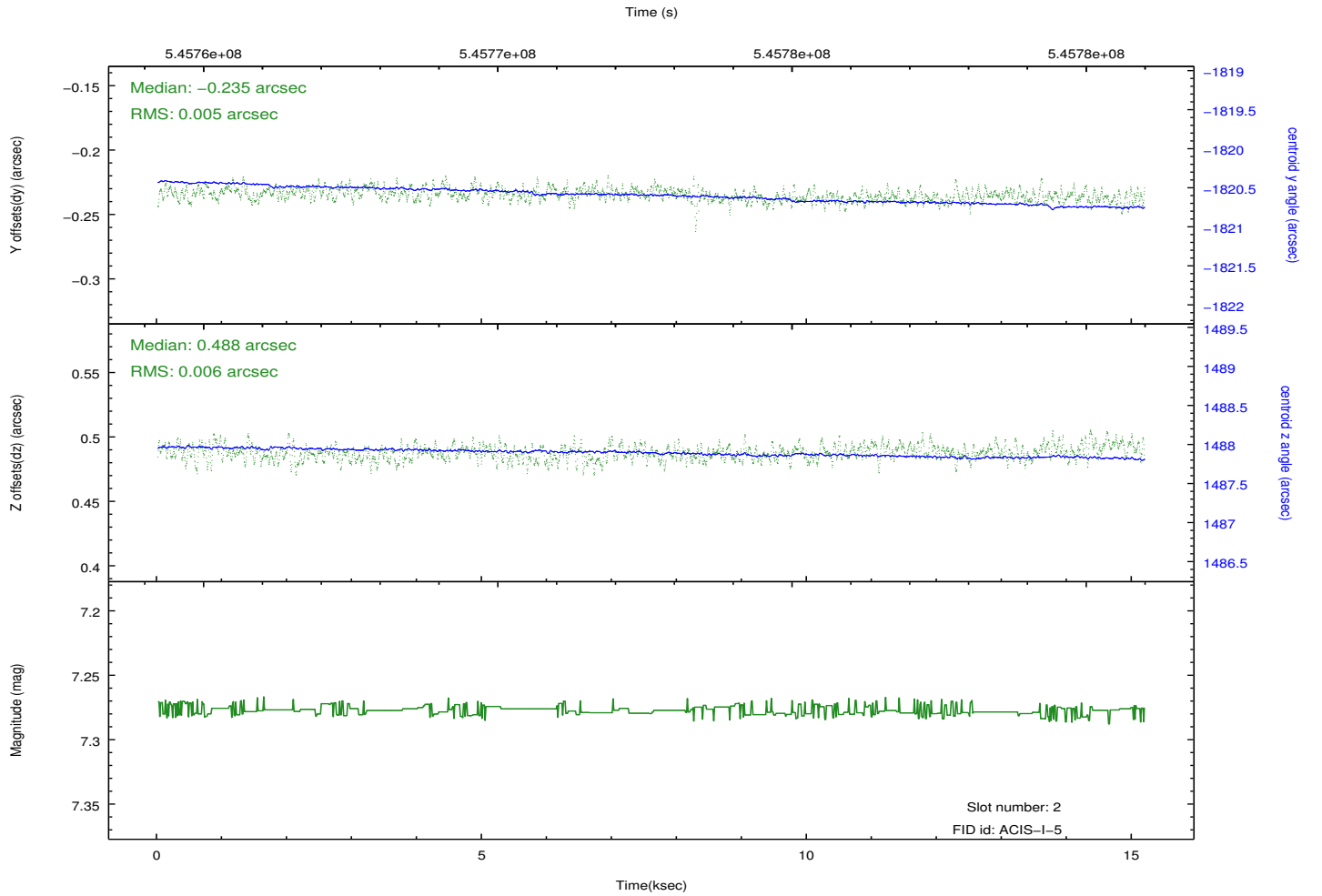
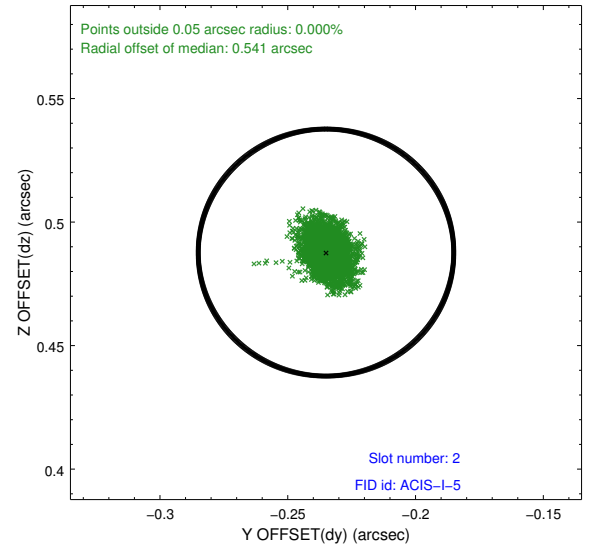
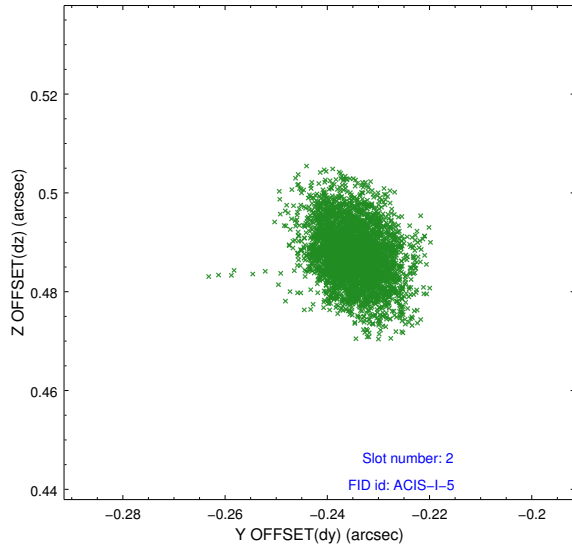
### 2.5.1 Slot 0



## 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)	2015.04.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.77720183444

### A.2 Comments

Window preference met.