

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2580 - L2 Version 3  
Chandra X-Ray Center

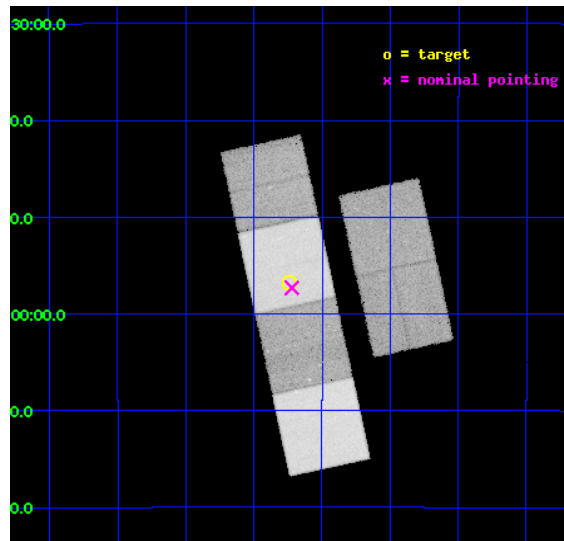
L2 Processing Date : Oct 11 2012

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# 1 Front

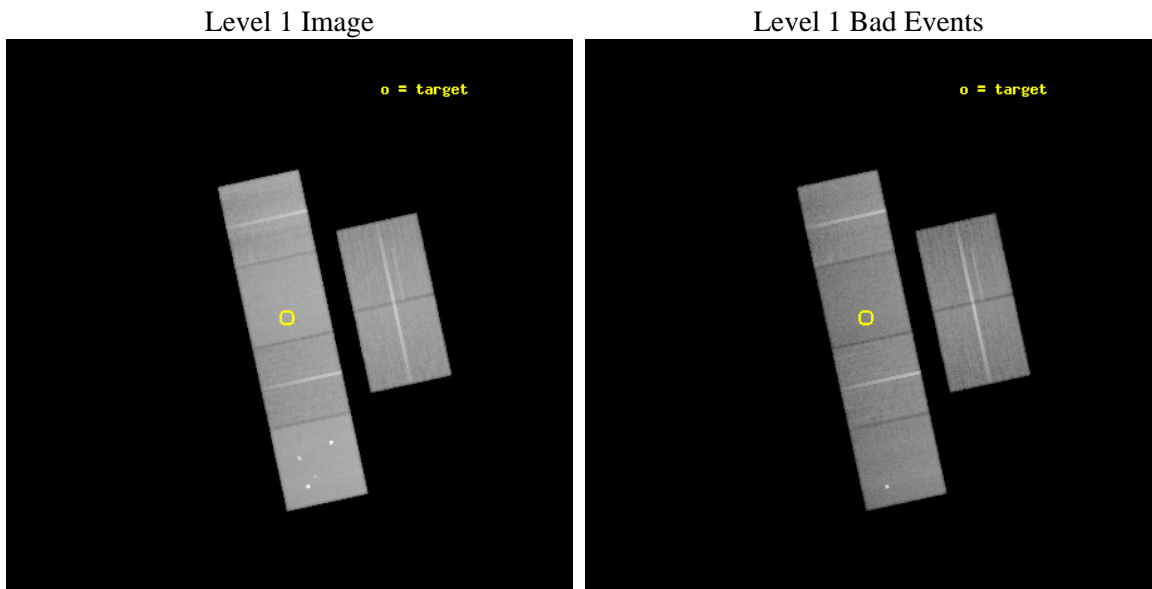
seq_num	200188	Sequence number
obs_id	2580	Observation id
title	PROBING WIND-WIND INTERACTIONS AND STELLAR MAGNETIC FIELDS IN PRE-PLANETARY NEBULAE	Proposal title
observer	Dr. Raghvendra Sahai	Principal investigator
object	HEN3-1475	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.309167	Observer's specified target RA [deg]
dec_targ	-17.946389	Observer's specified target Dec [deg]
ra_nom	266.30528405457	Nominal RA [deg]
dec_nom	-17.955349608776	Nominal Dec [deg]
roll_nom	257.74980208044	Nominal Roll [deg]
revision	3	Processing version of data
ontime	47957.671988934	Sum of GTIs [s]
livetime	47350.403069567	Livetime [s]
ontime2	47957.713028938	Sum of GTIs [s]
ontime3	47957.548868924	Sum of GTIs [s]
ontime5	47954.389998555	Sum of GTIs [s]
ontime6	47957.589908928	Sum of GTIs [s]
ontime7	47957.671988934	Sum of GTIs [s]
ontime8	47954.266858667	Sum of GTIs [s]
l2events	534621	Number of level 2 events



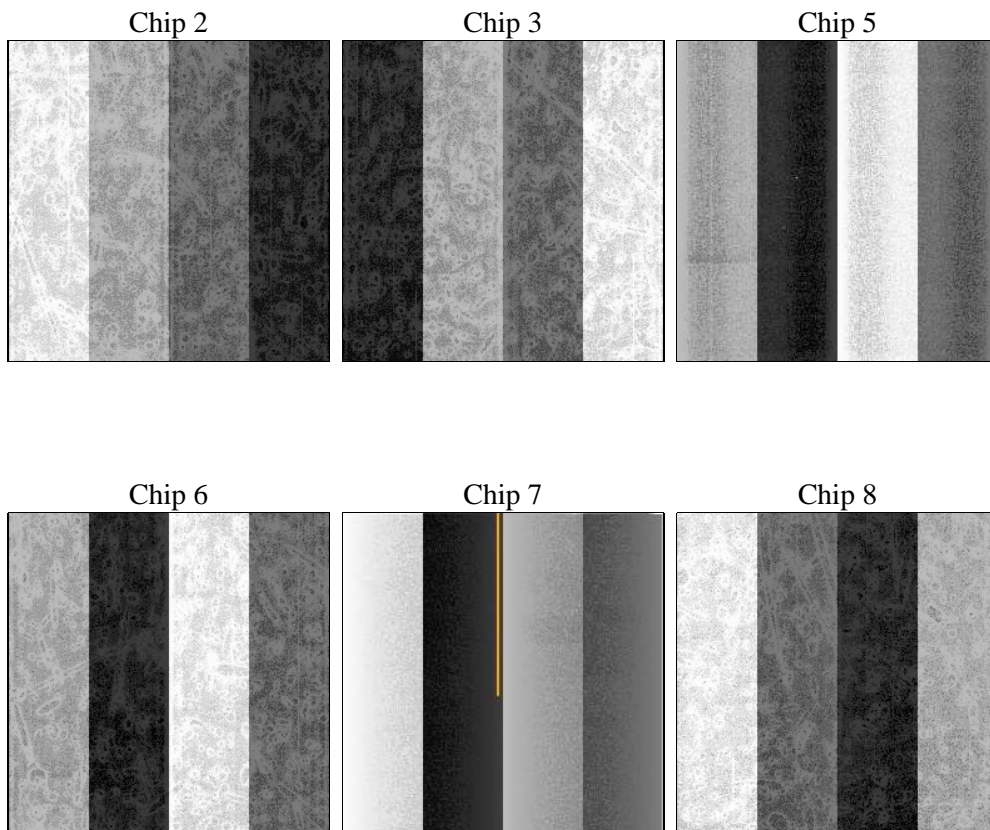
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	48000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	47957.671988934	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	47957.713028938	Sum of GTIs [s]
date	2012-10-11T15:09:34	Date and time of file creation	ontime3	47957.548868924	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	47954.389998555	Sum of GTIs [s]
			ontime6	47957.589908928	Sum of GTIs [s]
			ontime7	47957.671988934	Sum of GTIs [s]
			ontime8	47954.266858667	Sum of GTIs [s]
			l1events	2296960	Number of level 1 events

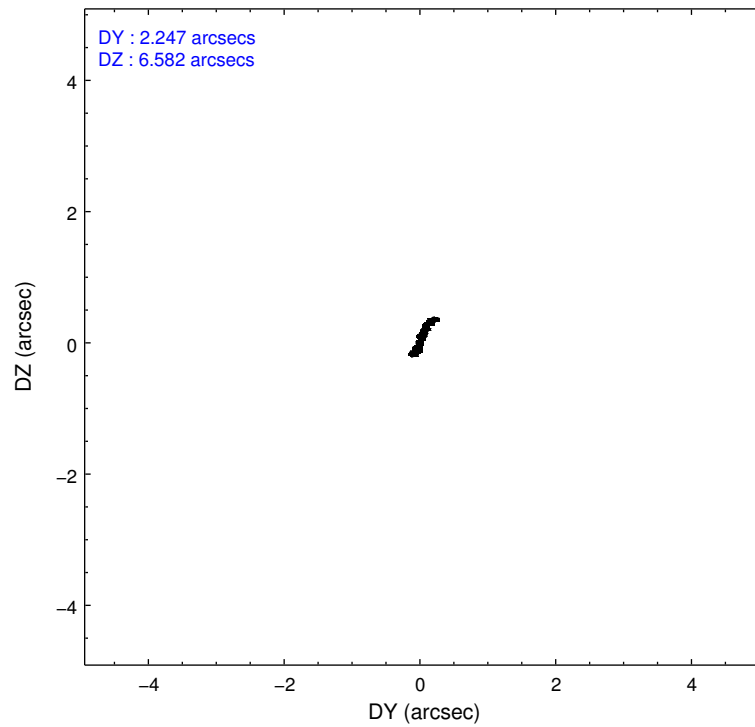
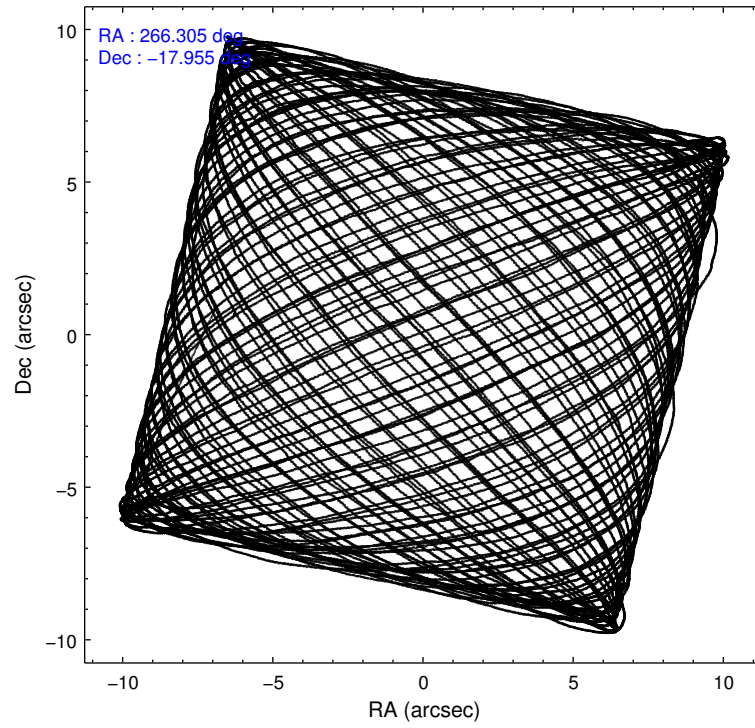
### 2.1.4 Events

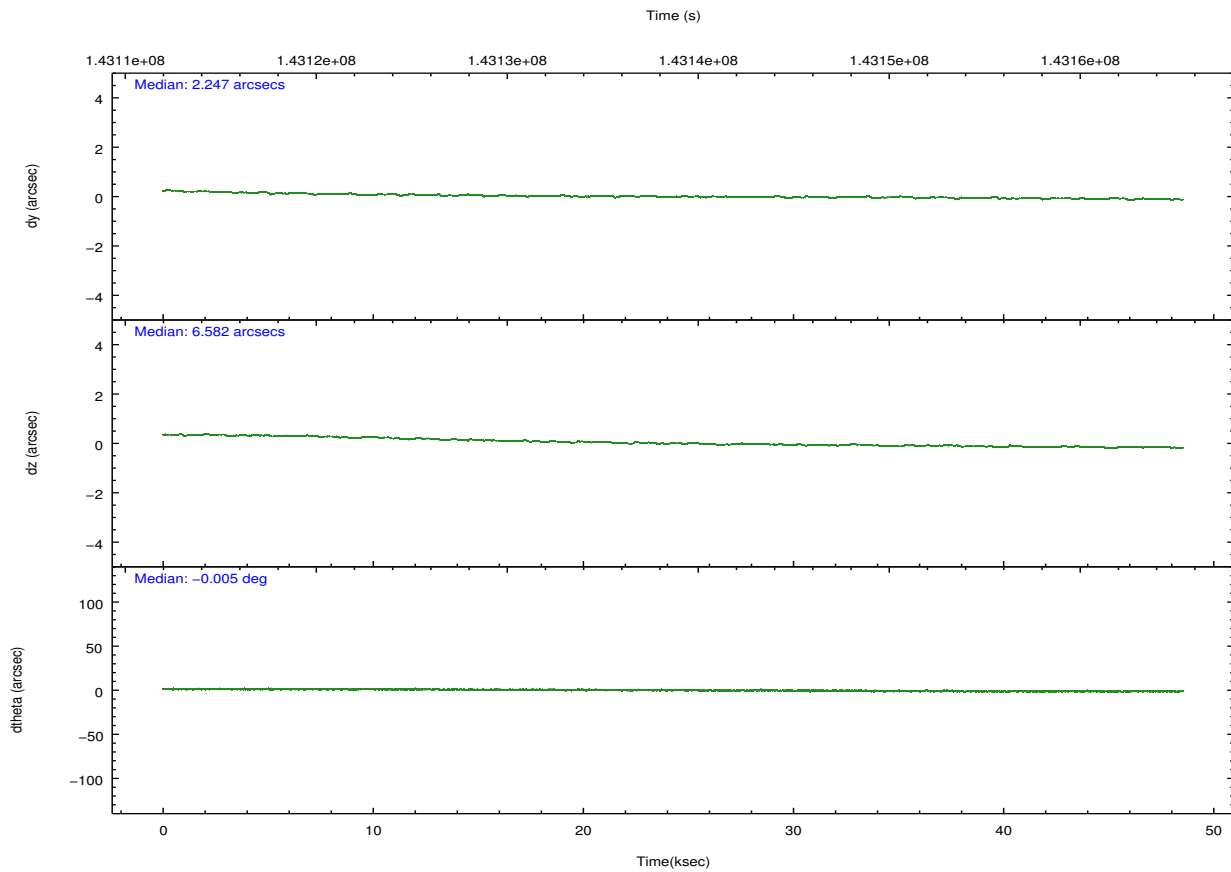
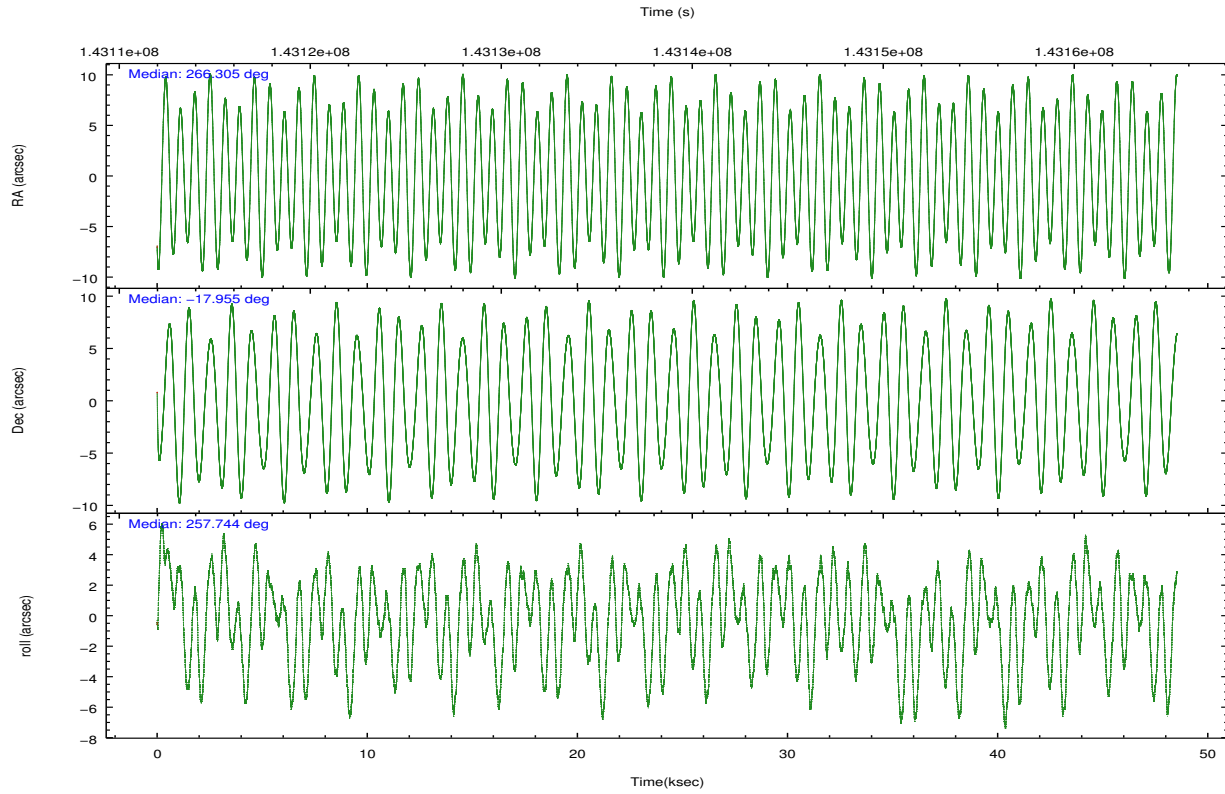
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	330310	316217	486964	330860	428358	404251	grade 0 events	18432	18958	34610	19304	19352	29463
rejected events	288710	274931	255085	286734	245157	315764		5%	5%	7%	5%	4%	7%
rejected %	87%	86%	52%	86%	57%	78%	grade 1 events	175	145	545	154	368	251
								0%	0%	0%	0%	0%	0%
							grade 2 events	8675	7823	68645	8368	36958	19096
								2%	2%	14%	2%	8%	4%
							grade 3 events	3548	3731	9211	3951	16878	8949
								1%	1%	1%	1%	3%	2%
							grade 4 events	3614	3544	8711	3923	16463	8290
								1%	1%	1%	1%	3%	2%
							grade 5 events	11349	12848	34778	13634	40273	17628
								3%	4%	7%	4%	9%	4%
							grade 6 events	7338	7234	110739	8584	93568	22700
								2%	2%	22%	2%	21%	5%
							grade 7 events	277179	261934	219725	272942	204498	297874
								83%	82%	45%	82%	47%	73%

## 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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	266.296205	266.3052840545687	Subarray requested	NONE	NONE
[deg] Pointing Dec	-17.929516	-17.95534960877581	Alternating exposures requested	N	N
[deg] Pointing Roll	257.590373	257.7498020804437	[s] Primary exposure time	0.000000	3.2
[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)	143114947.184000	143113814.92256			
Observation start date	2002-07-15T10:08:03	2002-07-15T09:50:14			
[s] Observation end time (MET)	143162947.184000	143163501.7996			
Observation end date	2002-07-15T23:28:03	2002-07-15T23:38:21			
Read mode	TIMED	TIMED			

## 2.3 Aspect



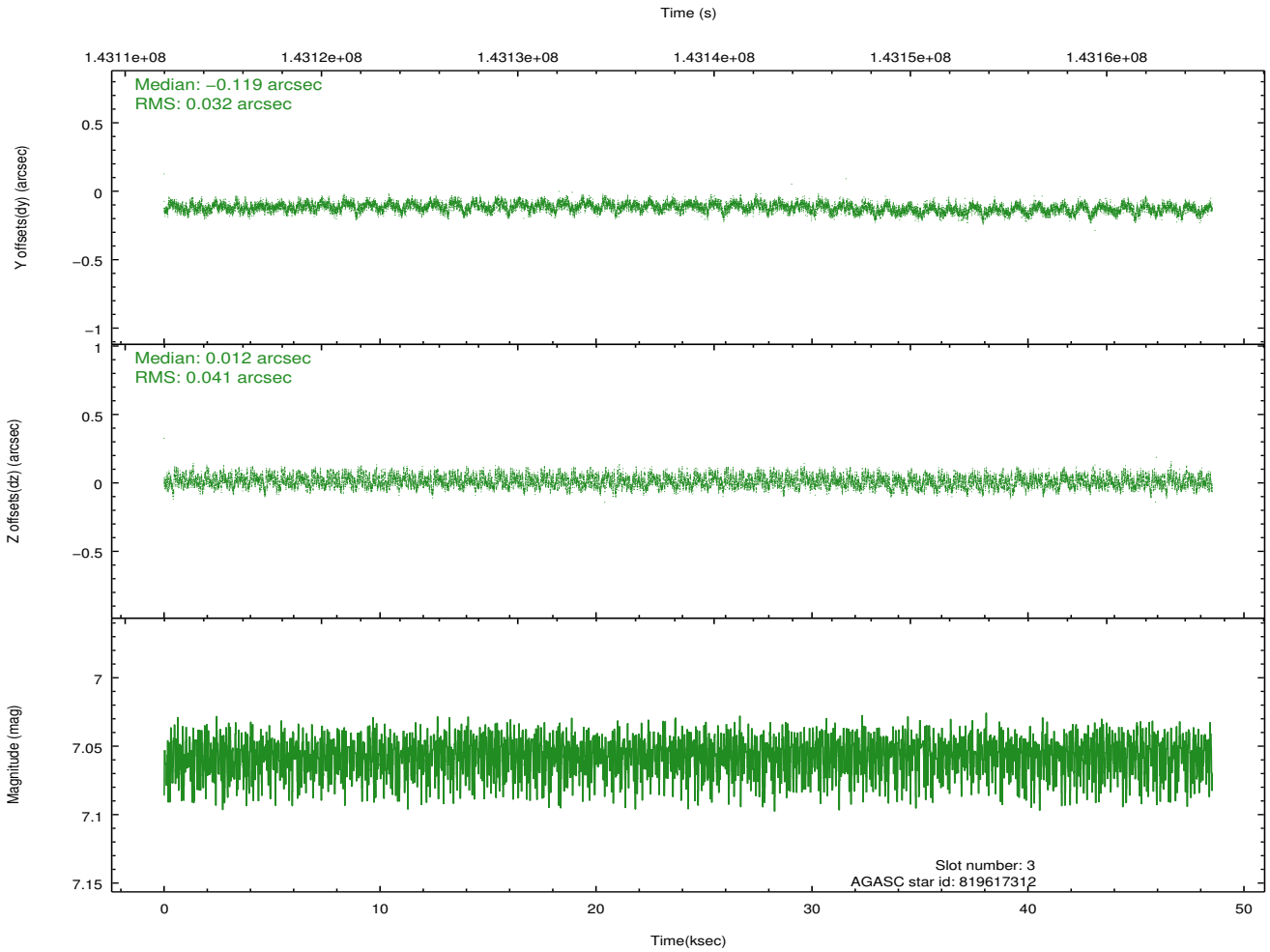
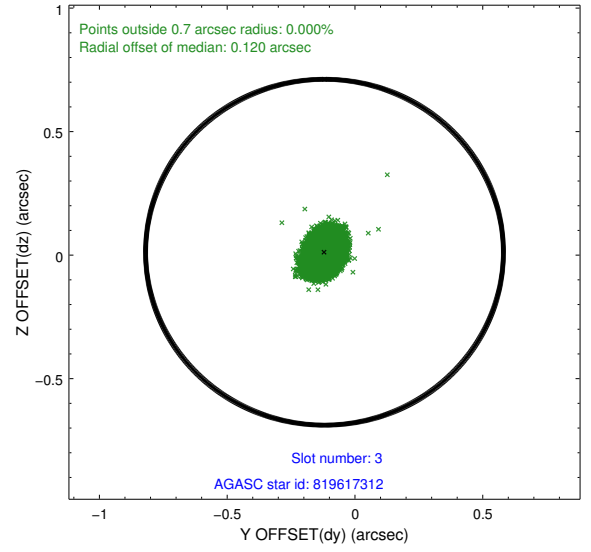
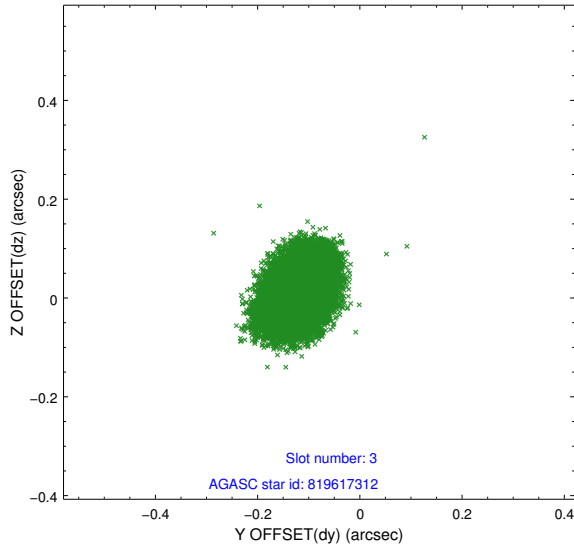


### Slot Statistics

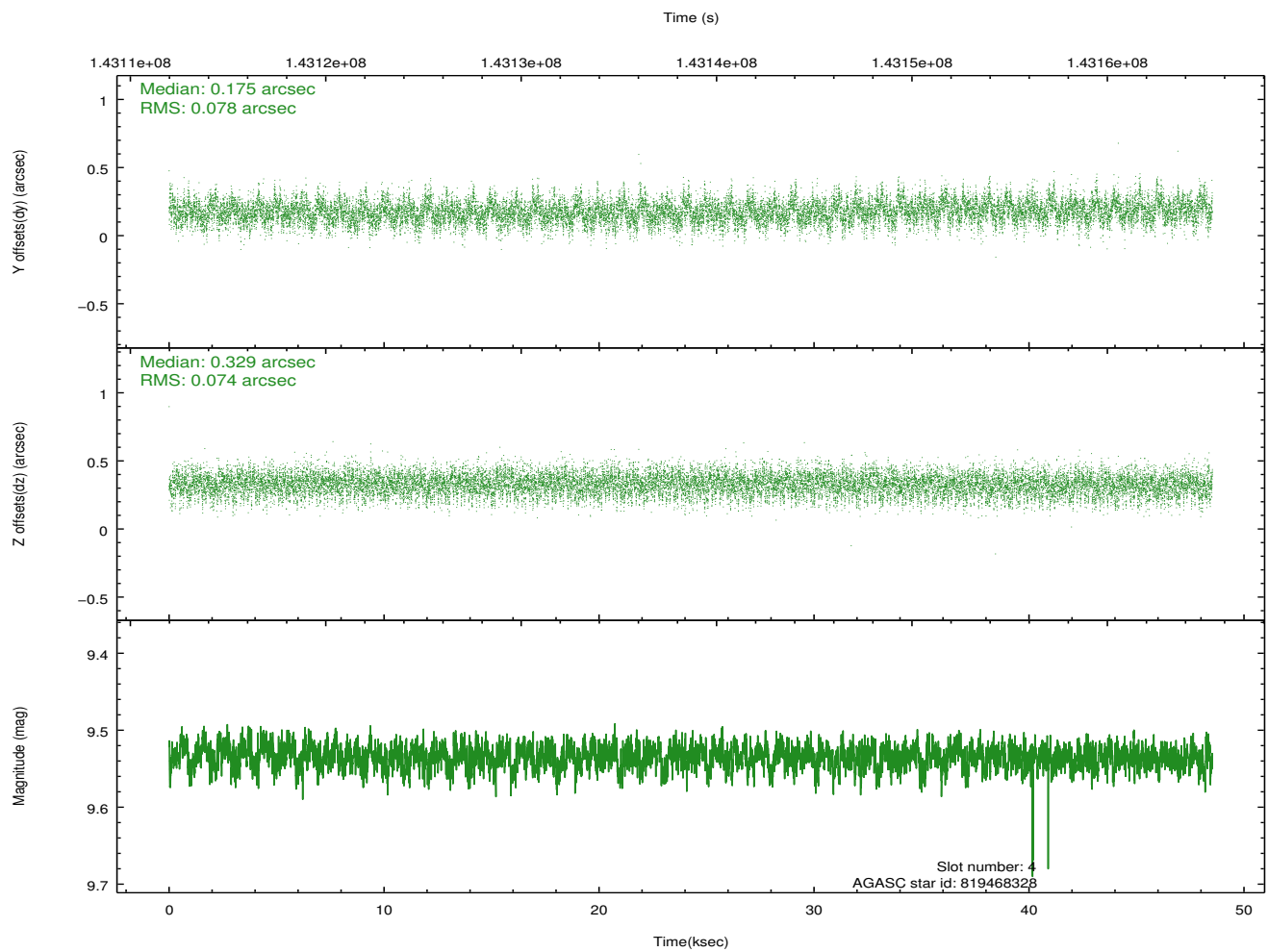
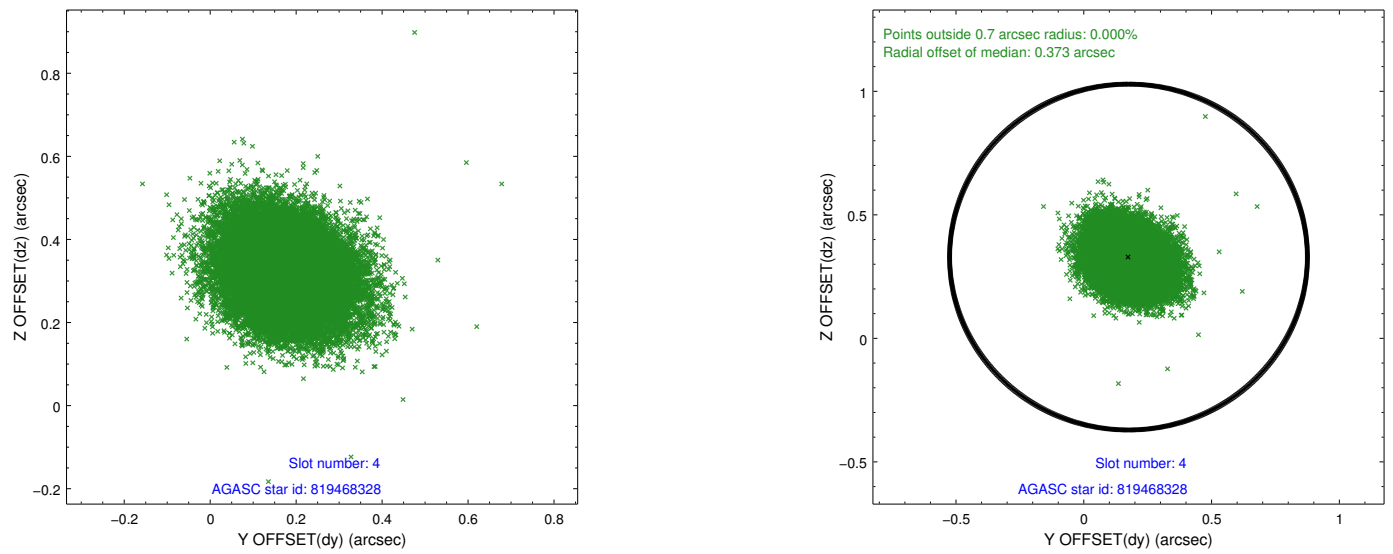
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	11837	-0.035	0.007	0.016	0.025	0.000000	0.000000	-754.90	-1727.79
1	FID	ACIS-S-4	7.20	11834	-0.025	0.014	0.023	0.036	0.000000	0.000000	2158.38	180.76
2	FID	ACIS-S-5	7.24	11835	0.023	-0.012	0.011	0.017	0.000000	0.000000	-1807.72	174.34
3	GUIDE	819617312	7.06	23673	-0.119	0.012	0.056	0.090	266.069958	-17.436832	-1564.41	-1139.55
4	GUIDE	819468328	9.53	23654	0.175	0.329	0.115	0.187	265.649242	-18.454758	2325.99	-1749.52
5	GUIDE	819596600	9.65	23657	0.346	-0.564	0.105	0.175	266.437215	-18.535096	2026.67	938.78
6	GUIDE	819609896	9.30	23662	-0.339	0.203	0.091	0.149	266.730766	-18.162294	500.70	1633.14
7	GUIDE	819618016	9.05	23659	-0.060	0.017	0.086	0.133	266.002087	-17.516400	-1234.24	-1305.04

## 2.4 Star Slots

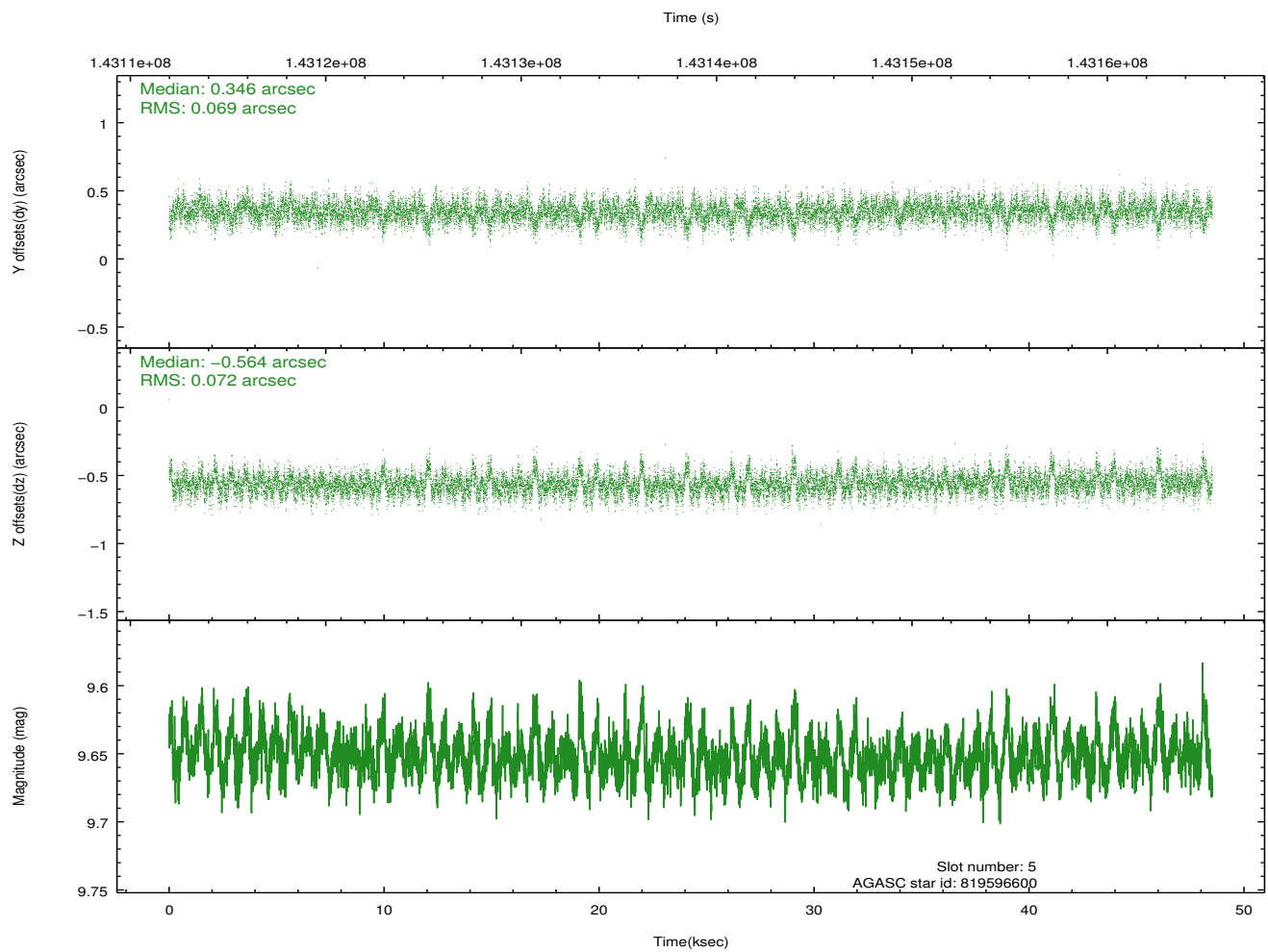
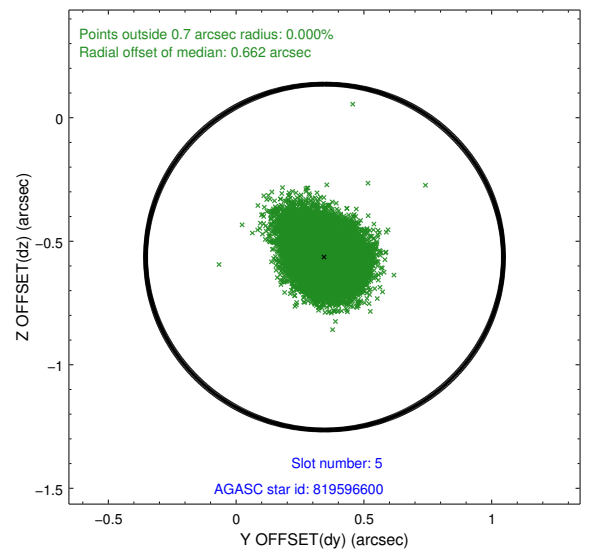
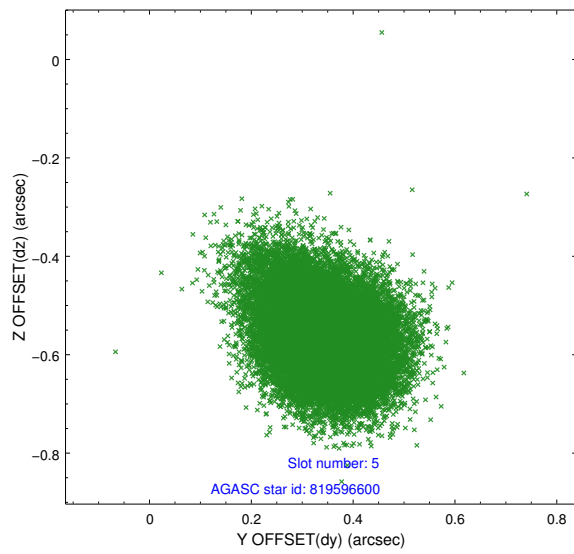
### 2.4.1 Slot 3



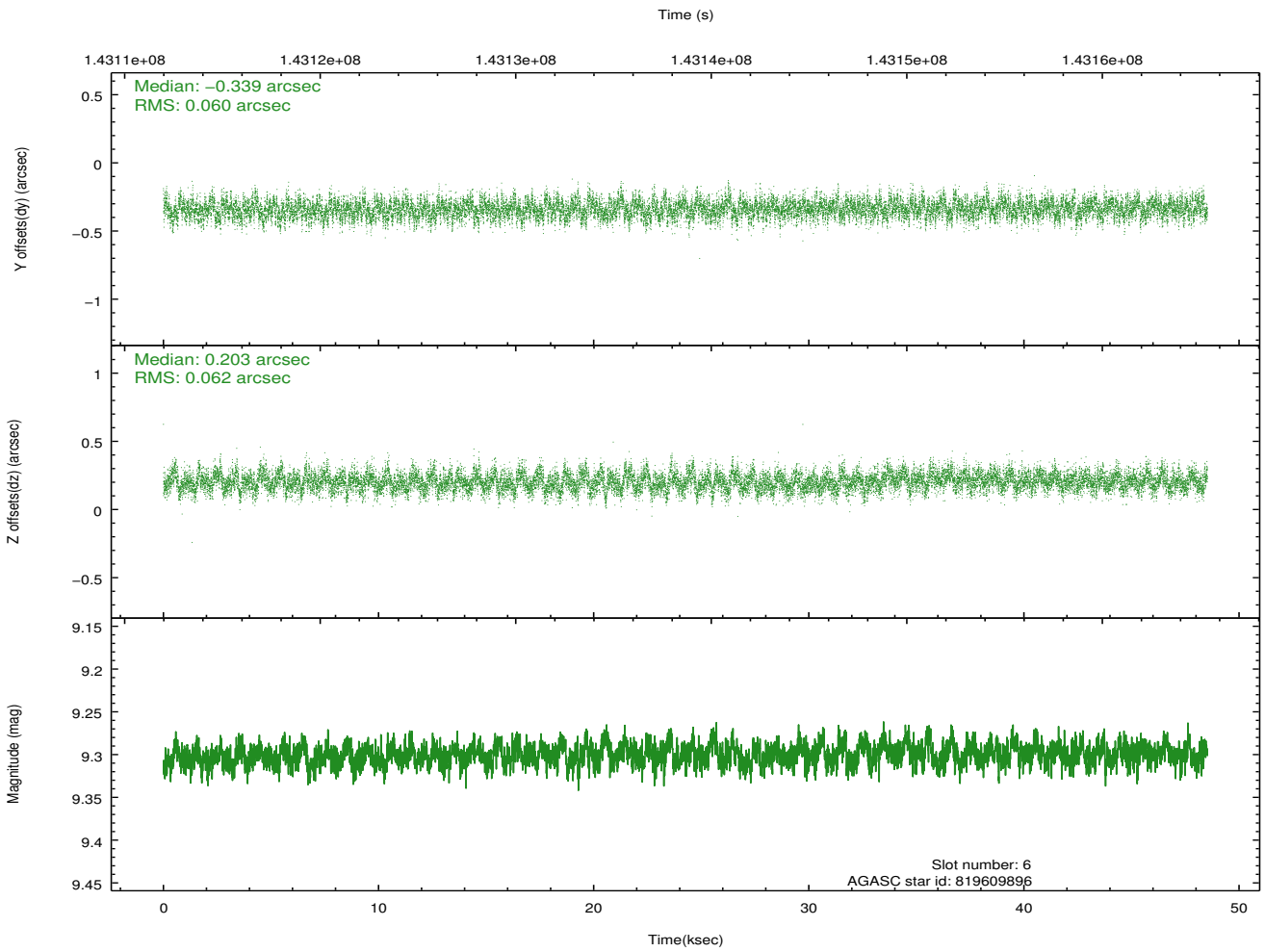
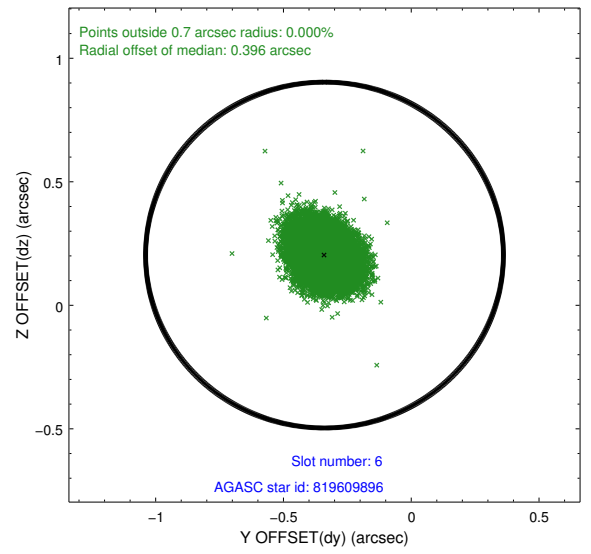
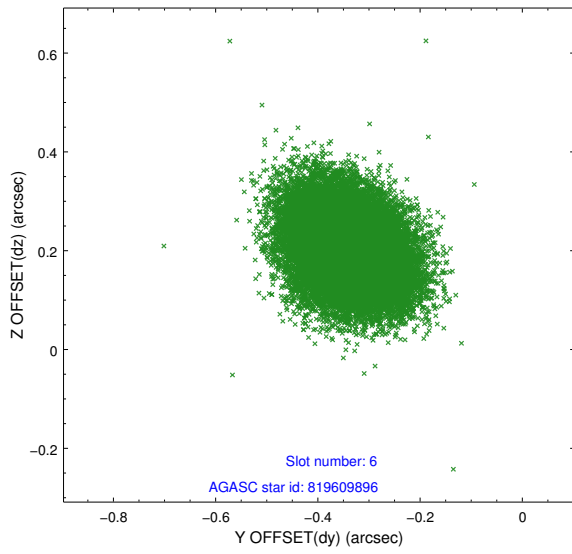
## 2.4.2 Slot 4



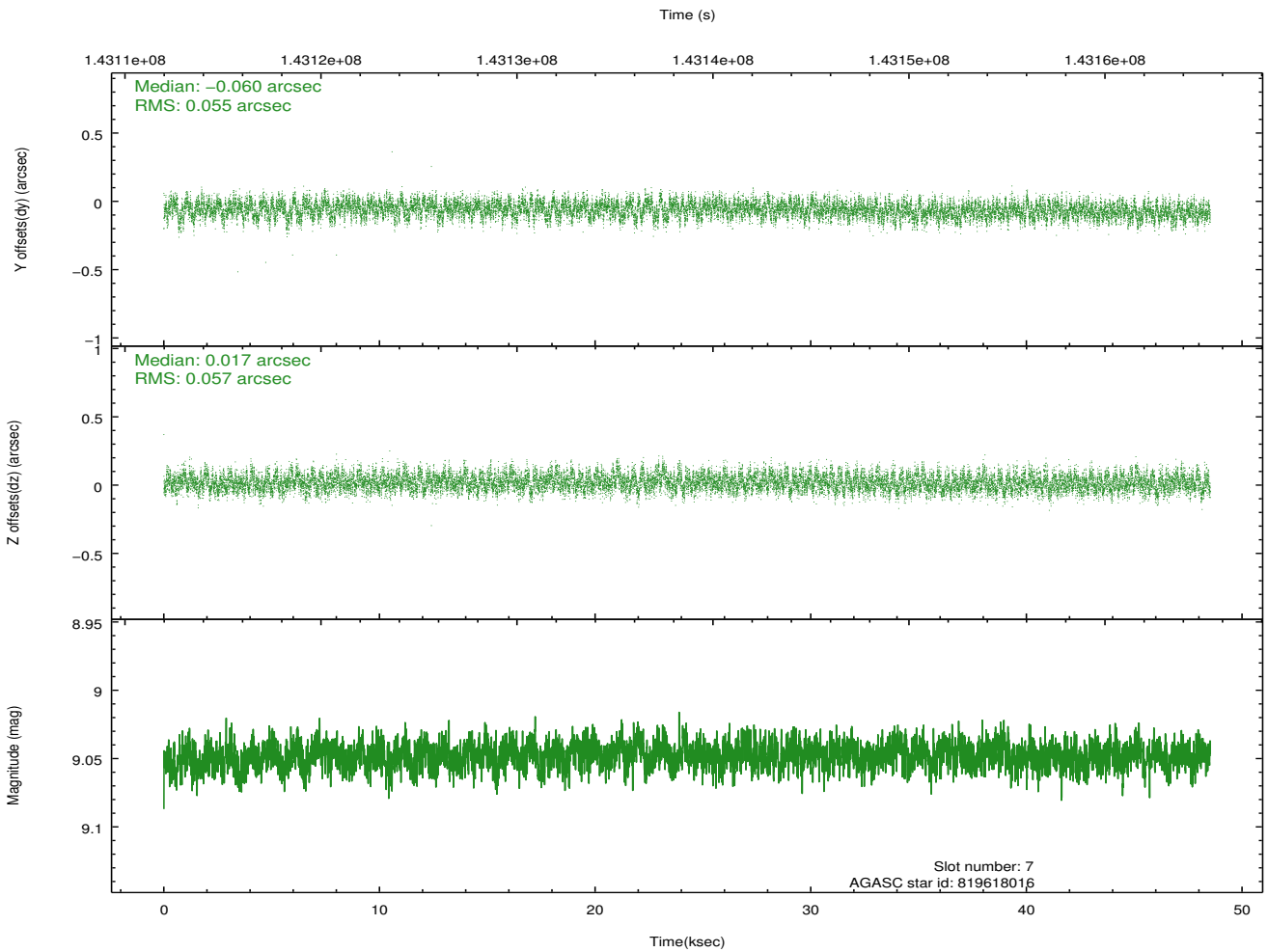
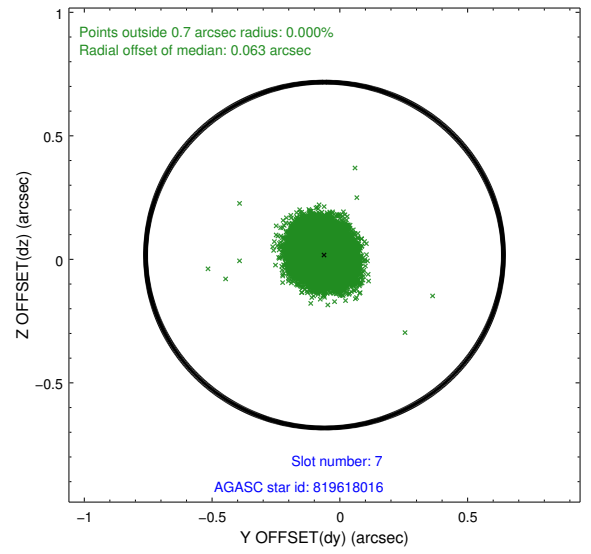
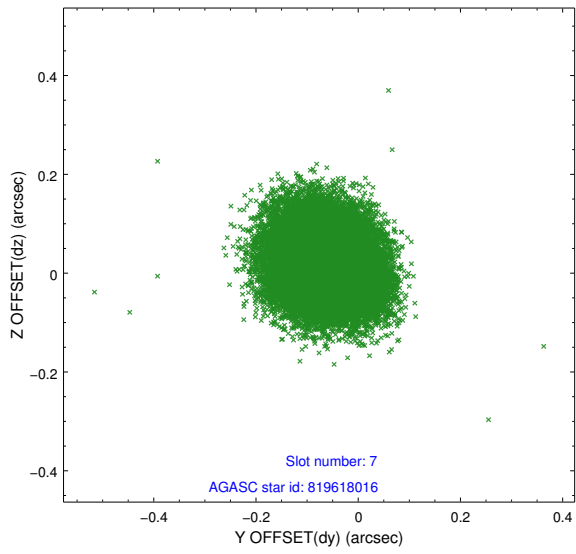
### 2.4.3 Slot 5



## 2.4.4 Slot 6

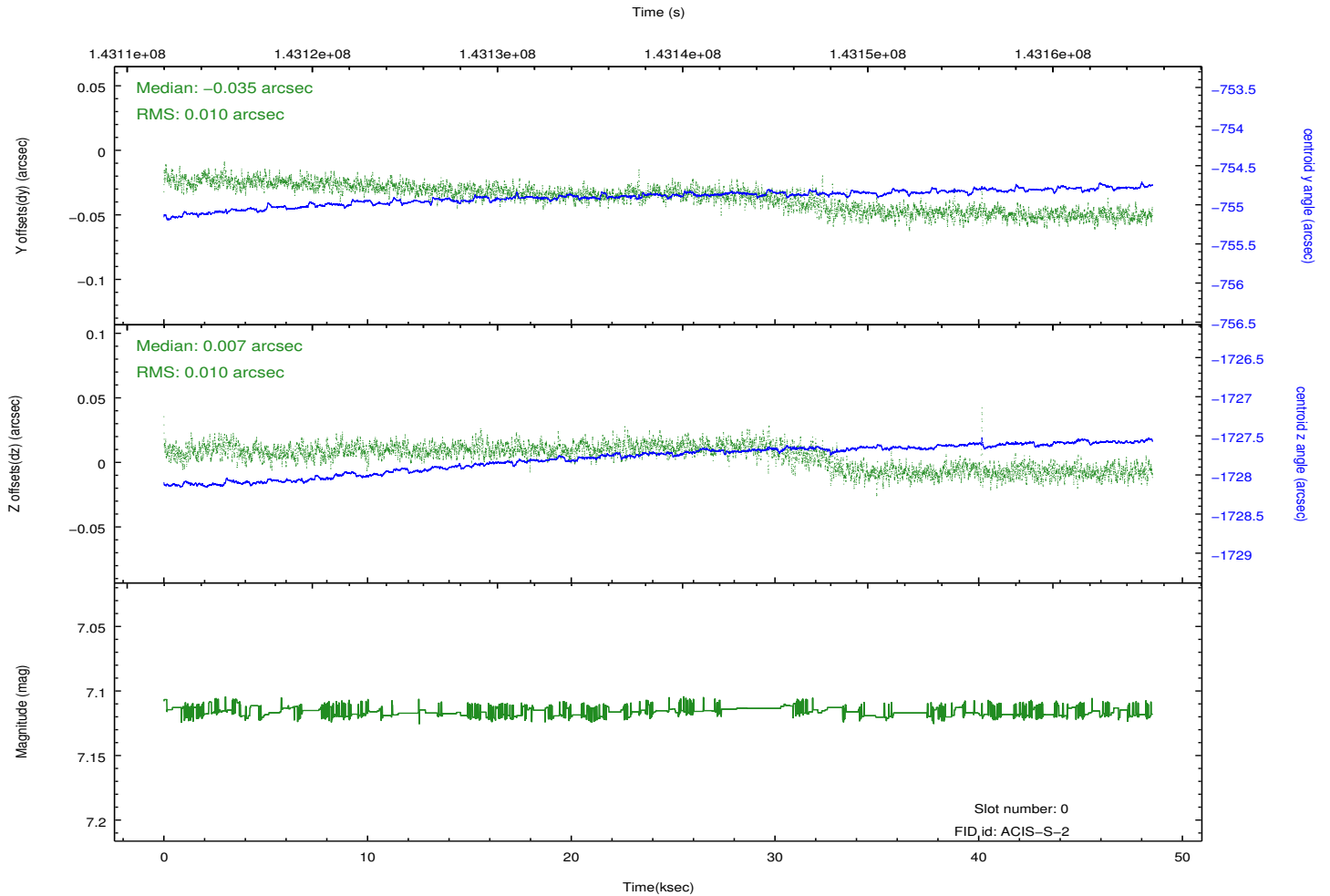
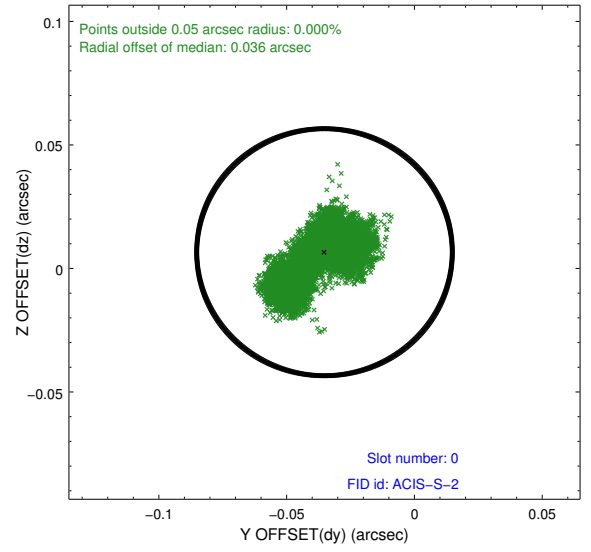
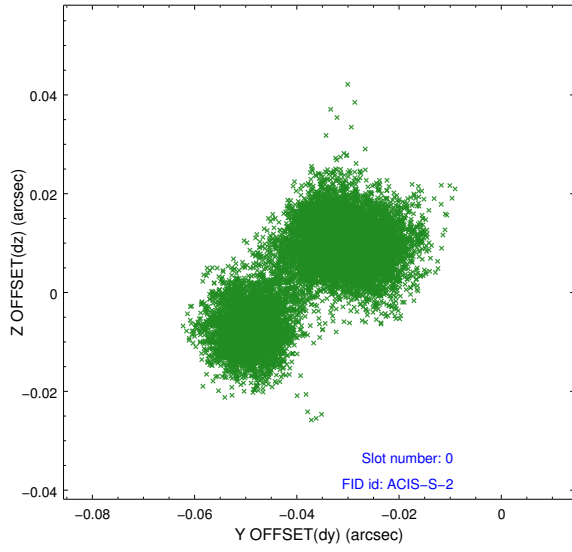


### 2.4.5 Slot 7

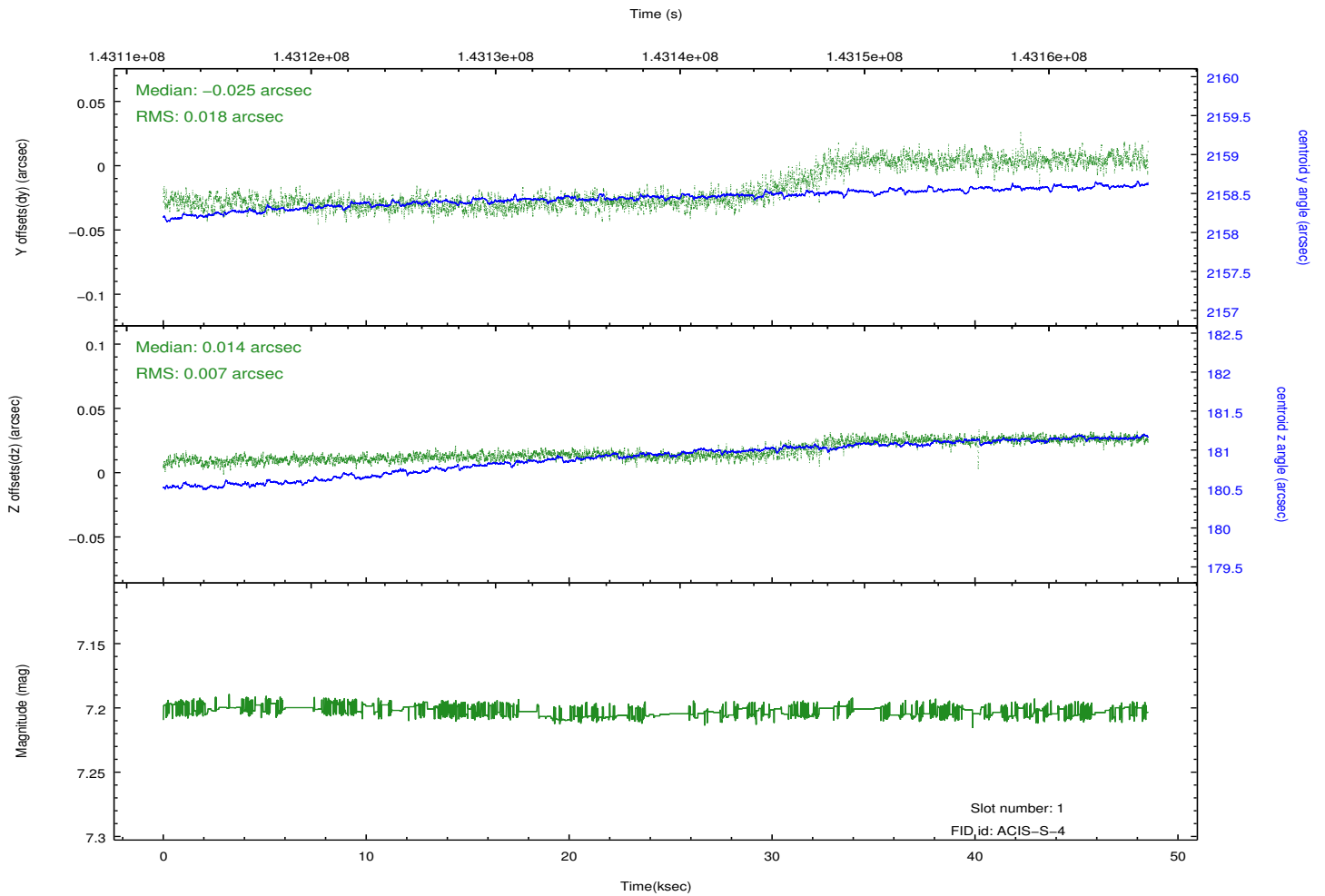
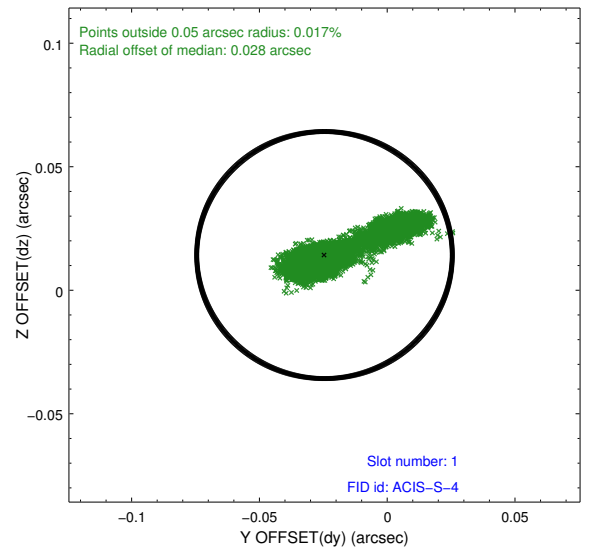
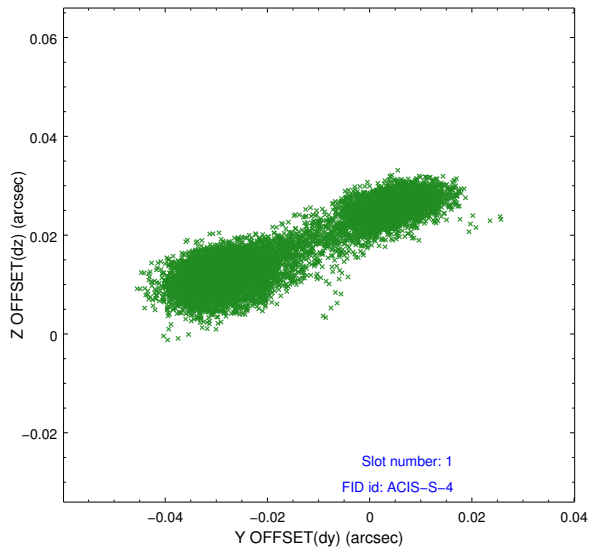


## 2.5 FID Slots

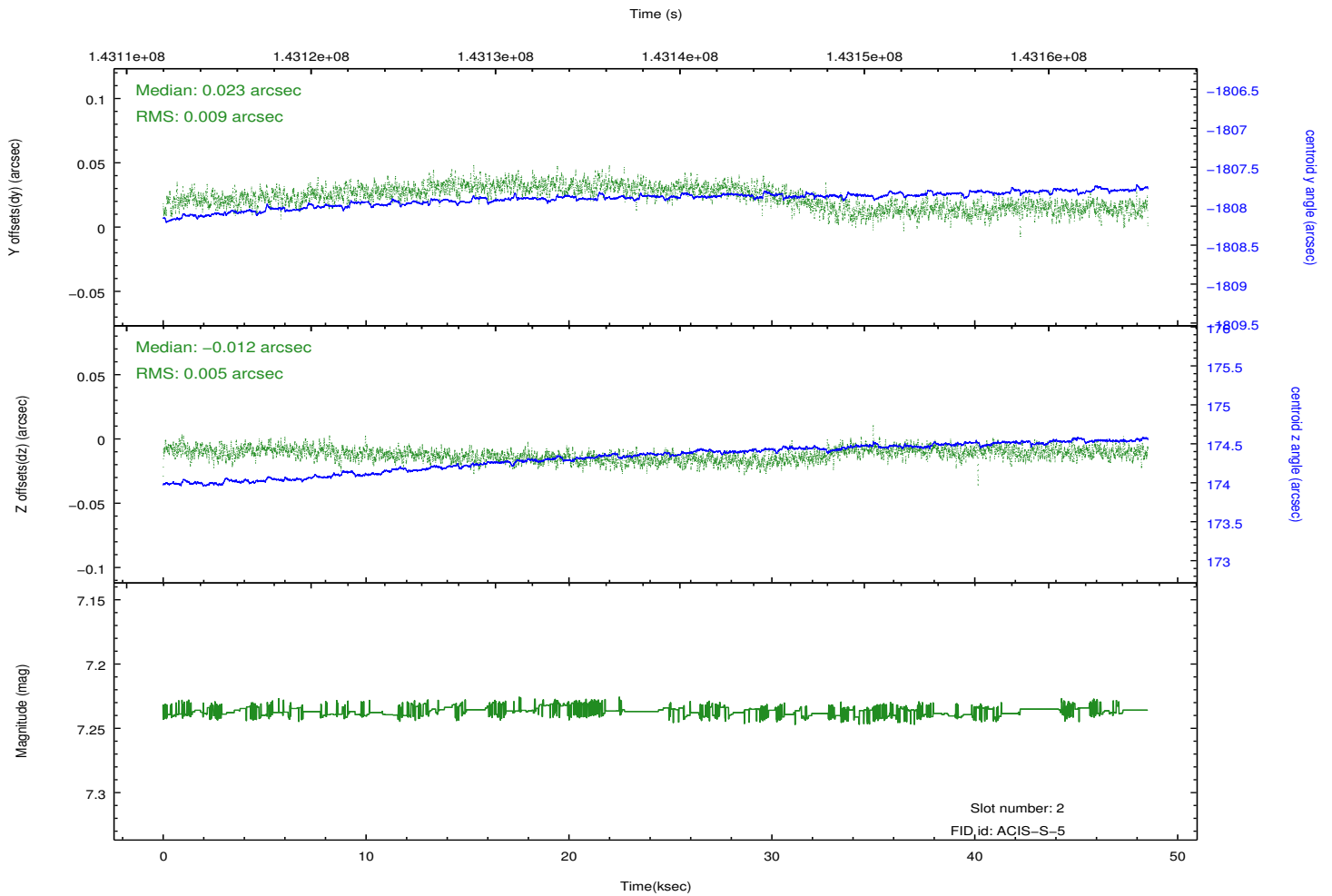
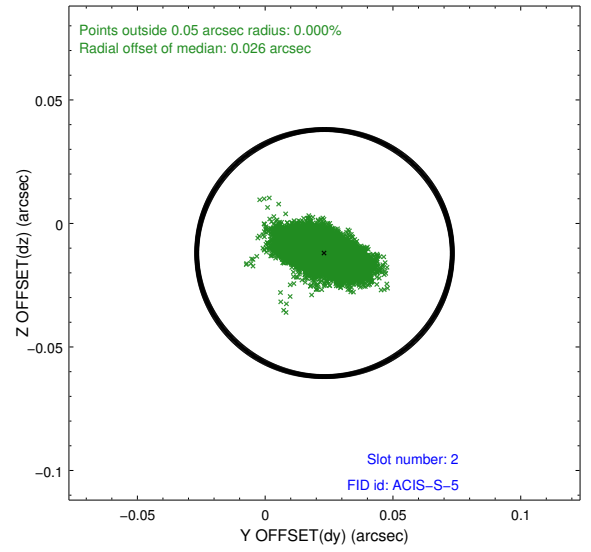
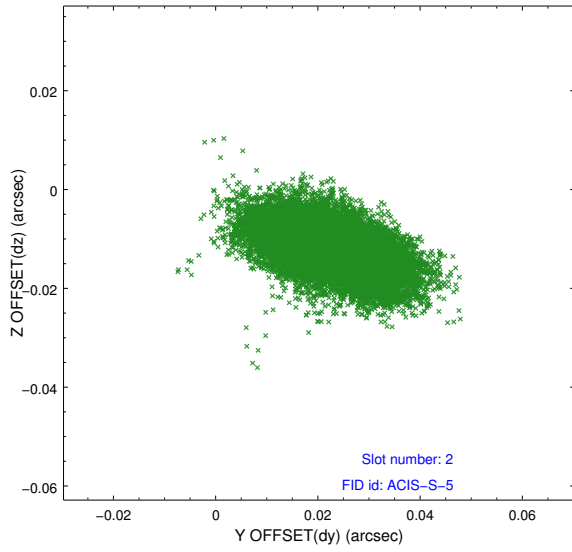
### 2.5.1 Slot 0



## 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)	2012.10.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.958

### **A.2 Comments**