

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4492 - L2 Version 3  
Chandra X-Ray Center

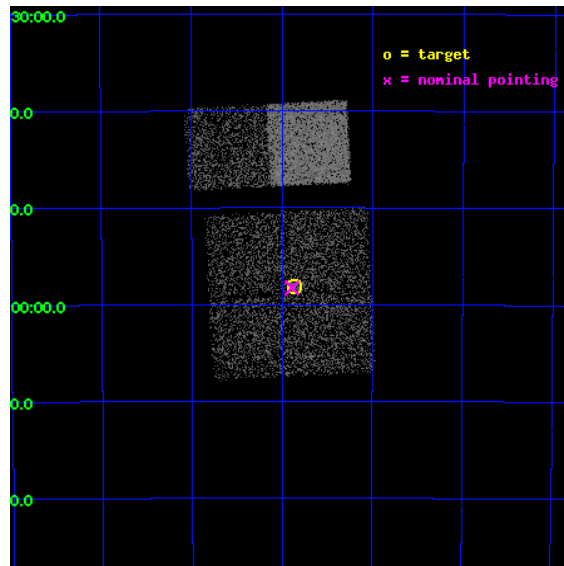
L2 Processing Date : Nov 11 2012

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# 1 Front

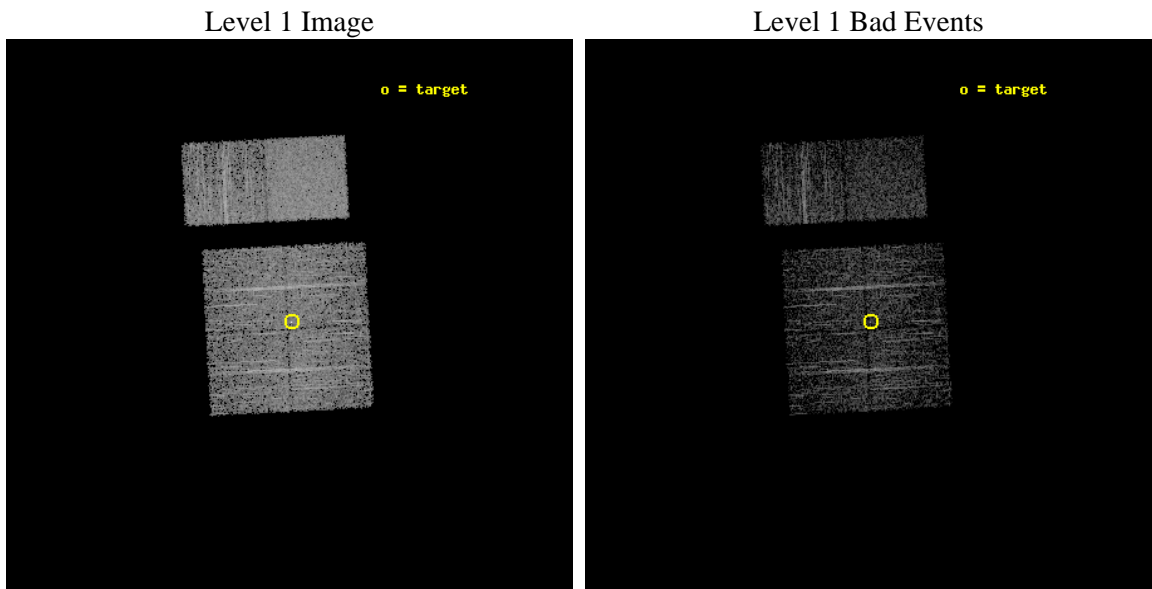
seq_num	200261	Sequence number
obs_id	4492	Observation id
title	Planet formation and the missing 10 Myr old stars	Proposal title
observer	Prof. Eric Feigelson	Principal investigator
object	HIP 42177	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	128.966667	Observer's specified target RA [deg]
dec_targ	-50.969444	Observer's specified target Dec [deg]
ra_nom	128.97318299578	Nominal RA [deg]
dec_nom	-50.97141738412	Nominal Dec [deg]
roll_nom	357.02751466239	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3148.7999882698	Sum of GTIs [s]
livetime	3108.9279868386	Livetime [s]
ontime0	3148.7999882698	Sum of GTIs [s]
ontime1	3148.7999882698	Sum of GTIs [s]
ontime2	3148.7999882698	Sum of GTIs [s]
ontime3	3148.7999882698	Sum of GTIs [s]
ontime6	3148.7999882698	Sum of GTIs [s]
ontime7	3148.7999882698	Sum of GTIs [s]
l2events	20692	Number of level 2 events



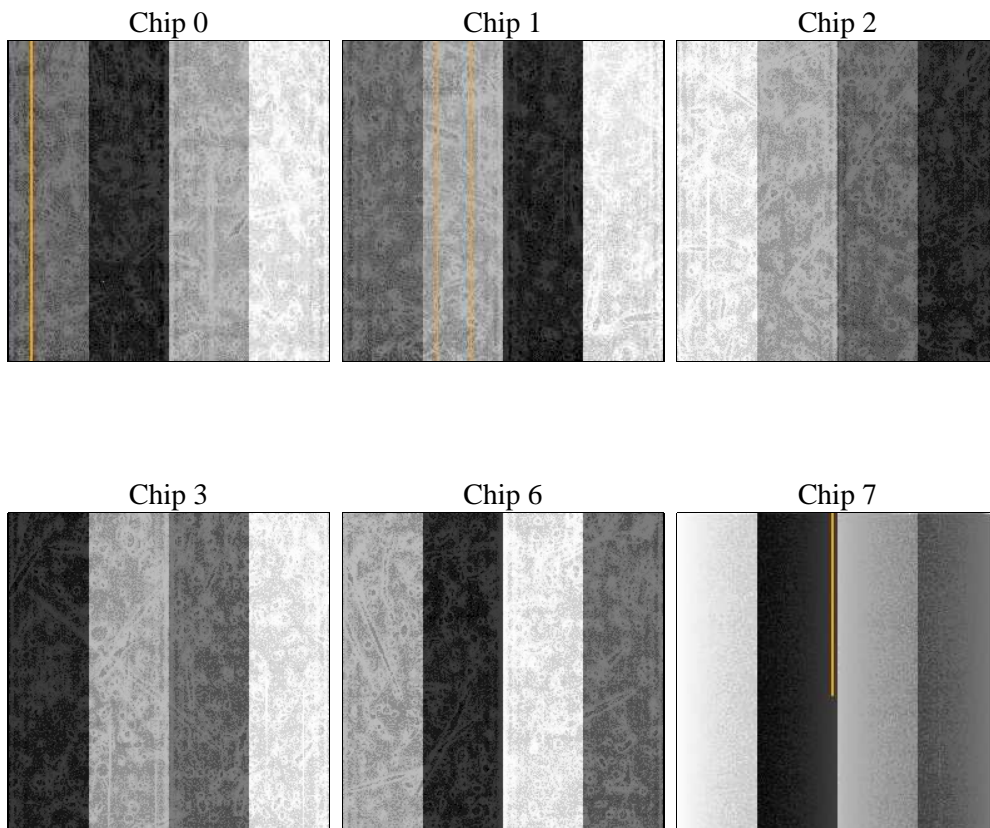
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3148.7999882698	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime0	3148.7999882698	Sum of GTIs [s]
date	2012-11-11T14:27:30	Date and time of file creation	ontime1	3148.7999882698	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	3148.7999882698	Sum of GTIs [s]
			ontime3	3148.7999882698	Sum of GTIs [s]
			ontime6	3148.7999882698	Sum of GTIs [s]
			ontime7	3148.7999882698	Sum of GTIs [s]
			l1events	132682	Number of level 1 events

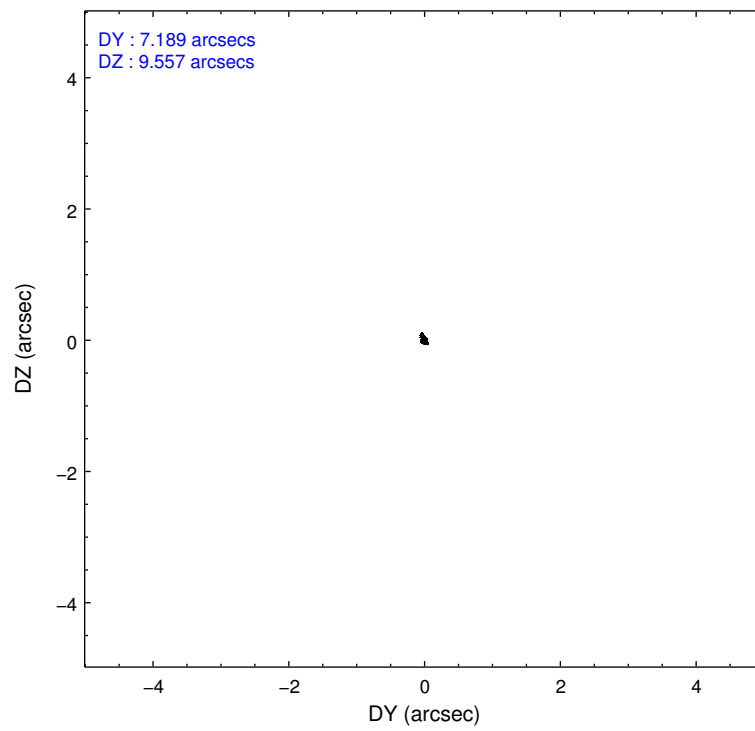
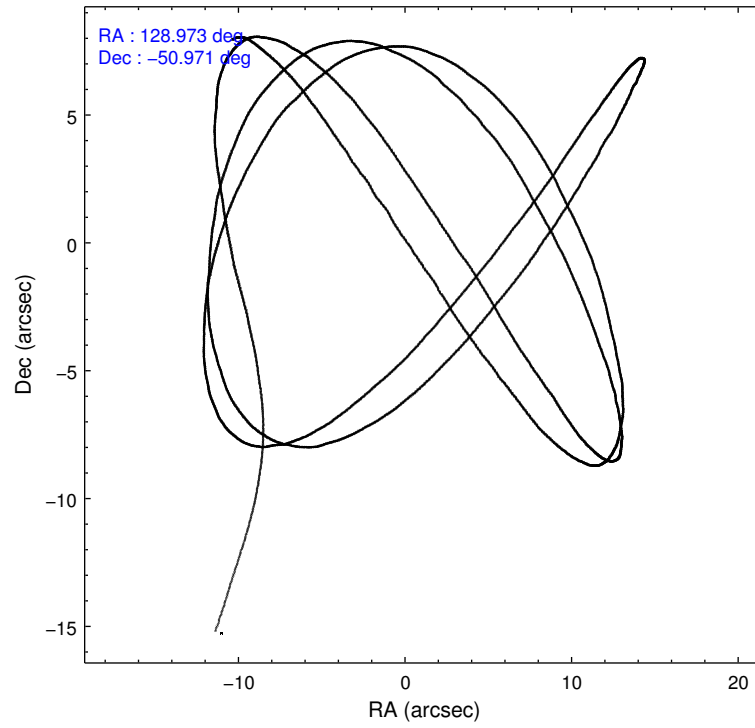
### 2.1.4 Events

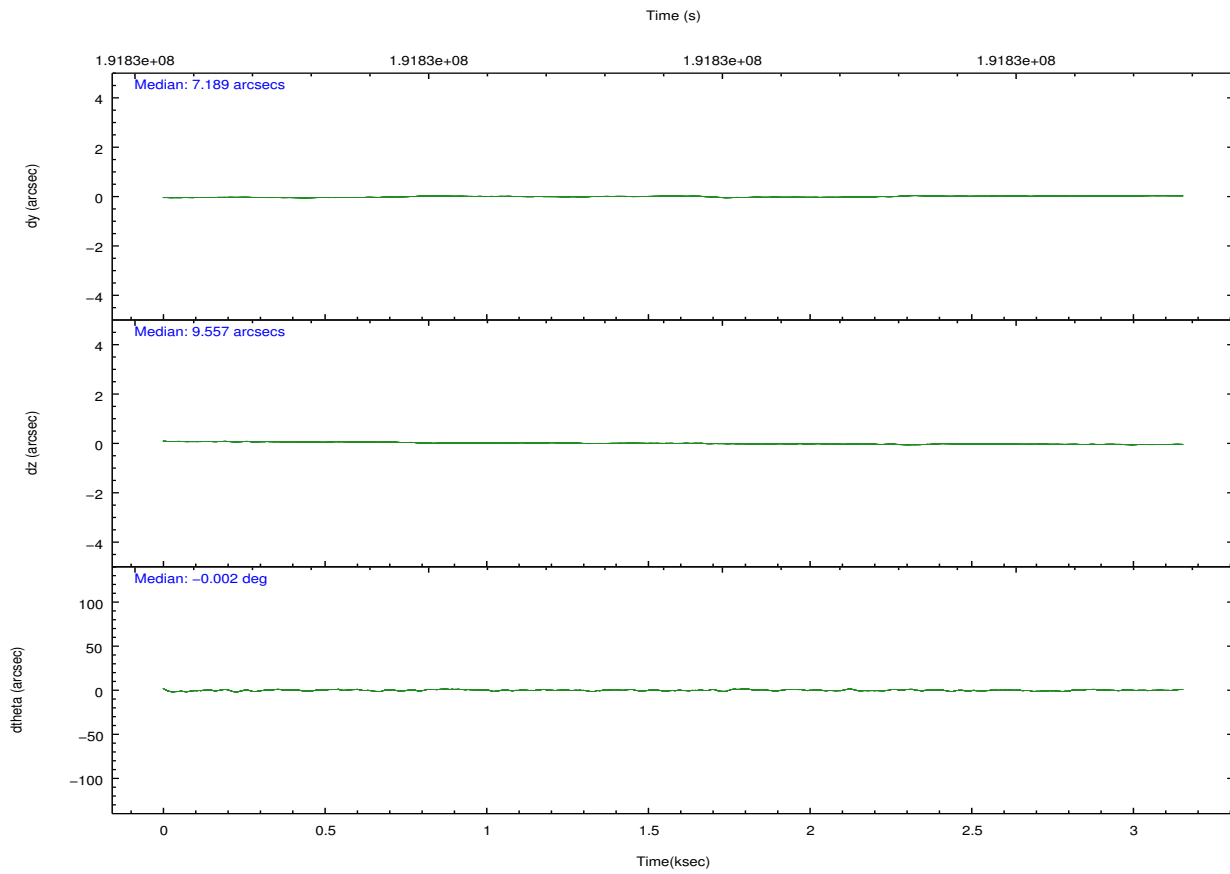
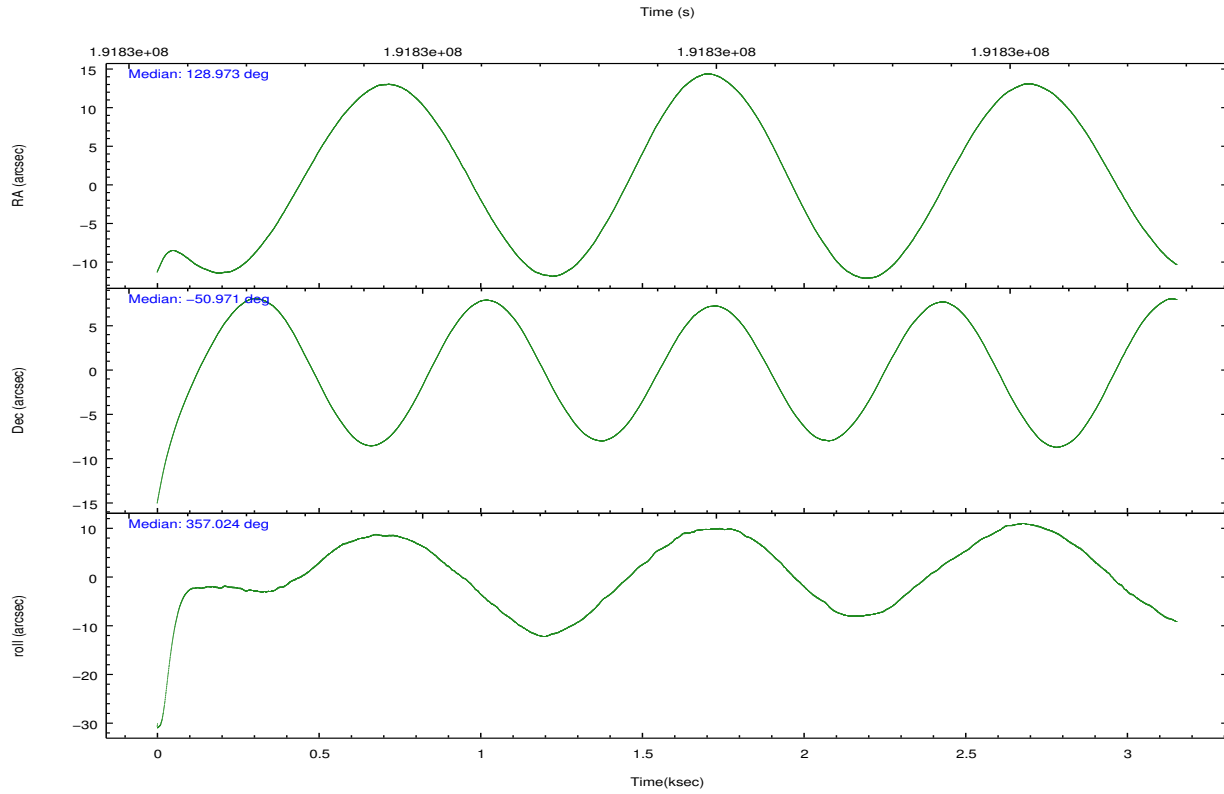
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	18963	20829	20473	21019	22457	28941	grade 0 events	1085	1100	1117	1468	1044	1088
rejected events	16760	18338	18291	18328	20158	18292		5%	5%	5%	6%	4%	3%
rejected %	88%	88%	89%	87%	89%	63%	grade 1 events	11	12	14	43	15	18
								0%	0%	0%	0%	0%	0%
							grade 2 events	500	605	474	541	537	2368
								2%	2%	2%	2%	2%	8%
							grade 3 events	262	250	239	259	238	1075
								1%	1%	1%	1%	1%	3%
							grade 4 events	210	271	212	277	228	1101
								1%	1%	1%	1%	1%	3%
							grade 5 events	852	998	897	995	1042	2760
								4%	4%	4%	4%	4%	9%
							grade 6 events	442	563	398	457	591	6290
								2%	2%	1%	2%	2%	21%
							grade 7 events	15601	17030	17122	16979	18762	14241
								82%	81%	83%	80%	83%	49%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	128.934622	128.9731829957849	Subarray requested	NONE	NONE
[deg] Pointing Dec	-50.984007	-50.97141738412019	Alternating exposures requested	N	N
[deg] Pointing Roll	356.788968	357.0275146623911	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	191830410.184000	191829166.74558			
Observation start date	2004-01-30T06:12:26	2004-01-30T05:52:46			
[s] Observation end time (MET)	191833410.184000	191834083.6708			
Observation end date	2004-01-30T07:02:26	2004-01-30T07:14:43			
Read mode	TIMED	TIMED			

## 2.3 Aspect



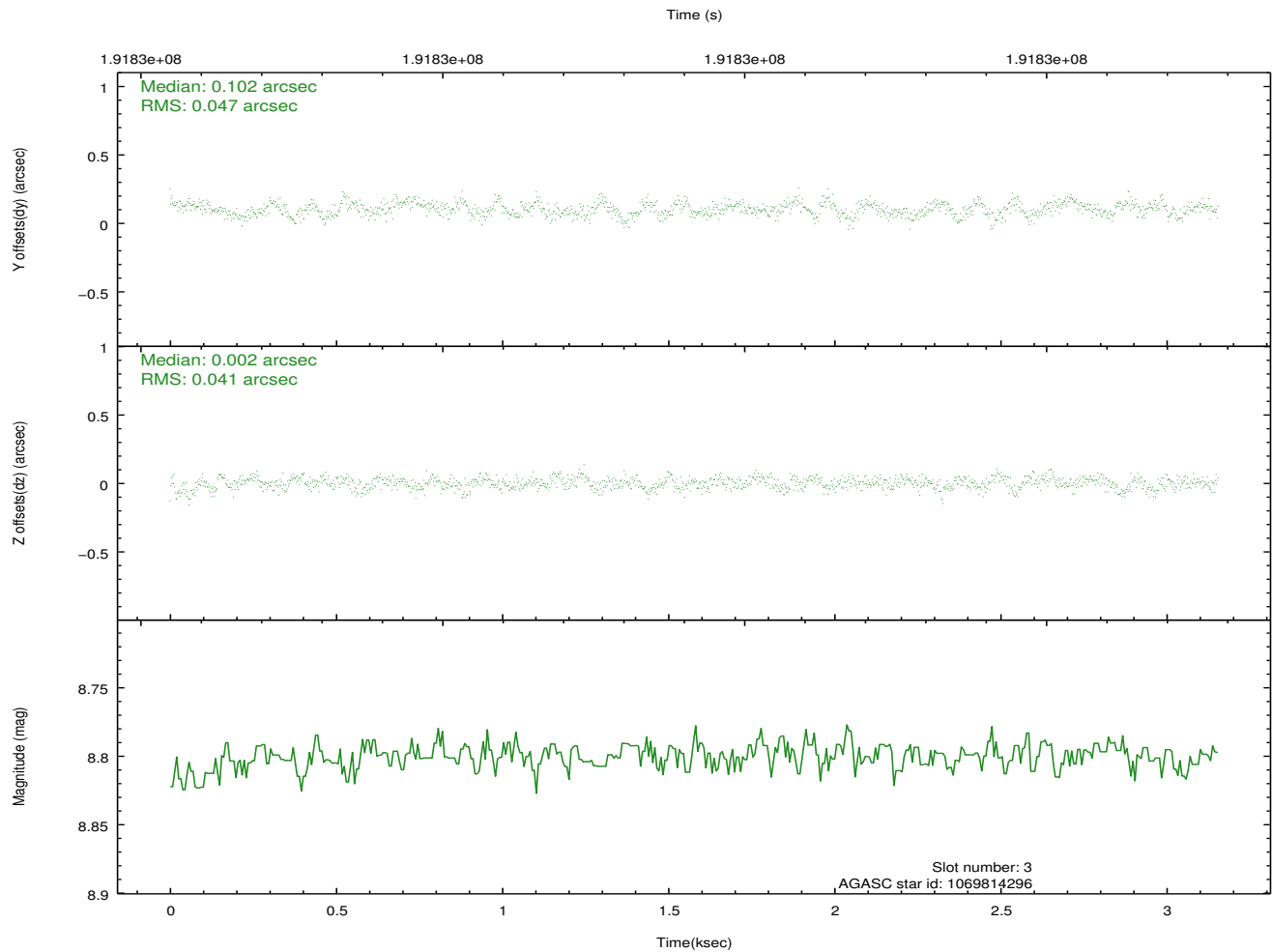
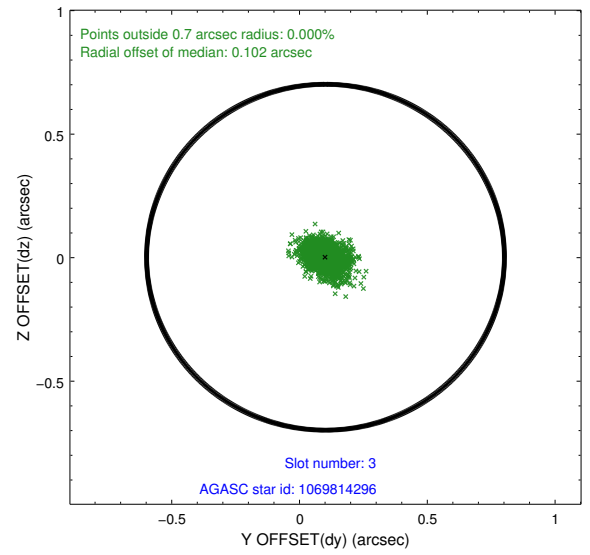
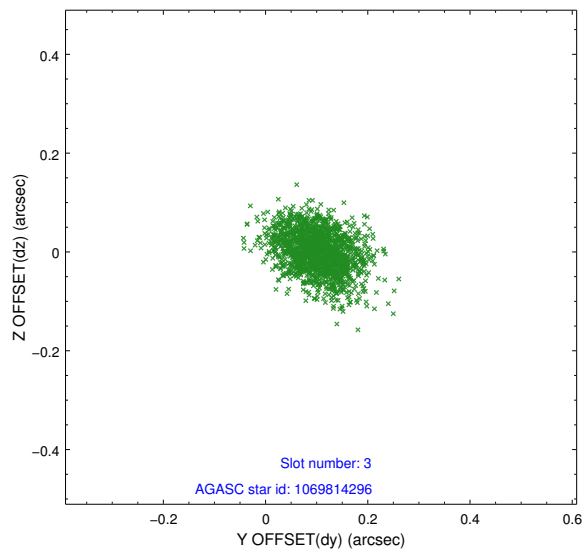


### Slot Statistics

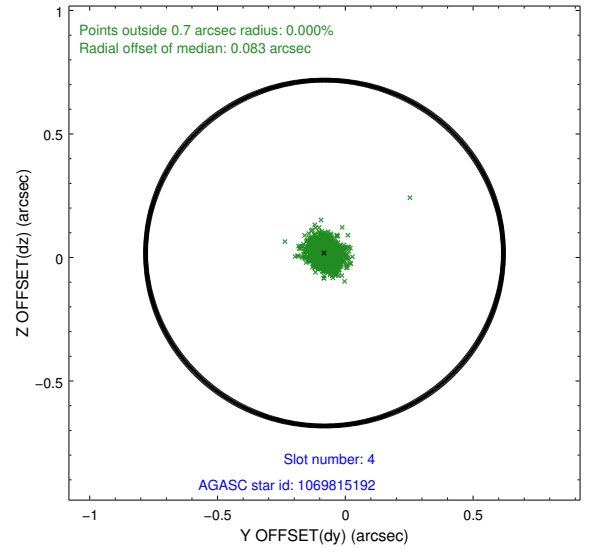
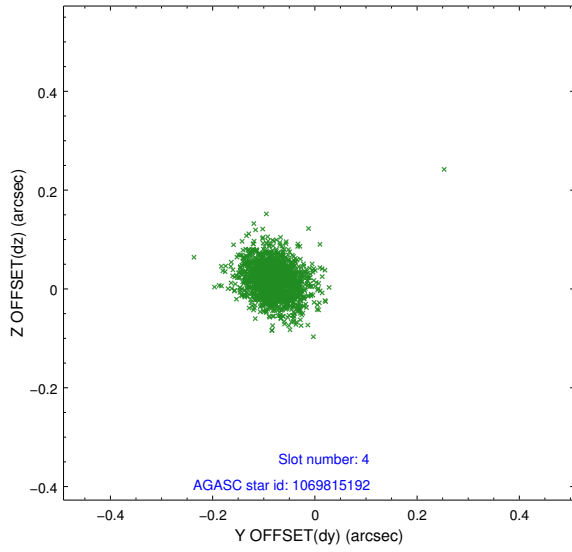
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	770	-0.055	-0.059	0.009	0.016	0.000000	0.000000	-761.74	-839.44
1	FID	ACIS-I-4	7.19	770	0.123	0.054	0.008	0.013	0.000000	0.000000	2151.59	1065.82
2	FID	ACIS-I-5	7.23	770	-0.169	0.074	0.010	0.017	0.000000	0.000000	-1813.08	1066.00
3	GUIDE	1069814296	8.80	1540	0.102	0.002	0.066	0.108	128.481357	-50.711643	-1085.89	917.92
4	GUIDE	1069815192	8.44	1539	-0.081	0.018	0.050	0.083	129.348324	-51.261689	986.42	-947.74
5	GUIDE	1069821808	7.11	1540	0.030	0.068	0.081	0.126	128.620782	-51.093133	-685.25	-434.00
6	GUIDE	1069304512	9.40	1540	-0.003	-0.060	0.106	0.178	128.031423	-50.285117	-2214.81	2382.68
7	GUIDE	1069424736	8.59	1537	-0.055	-0.031	0.070	0.114	129.579226	-50.508351	1376.81	1787.60

## 2.4 Star Slots

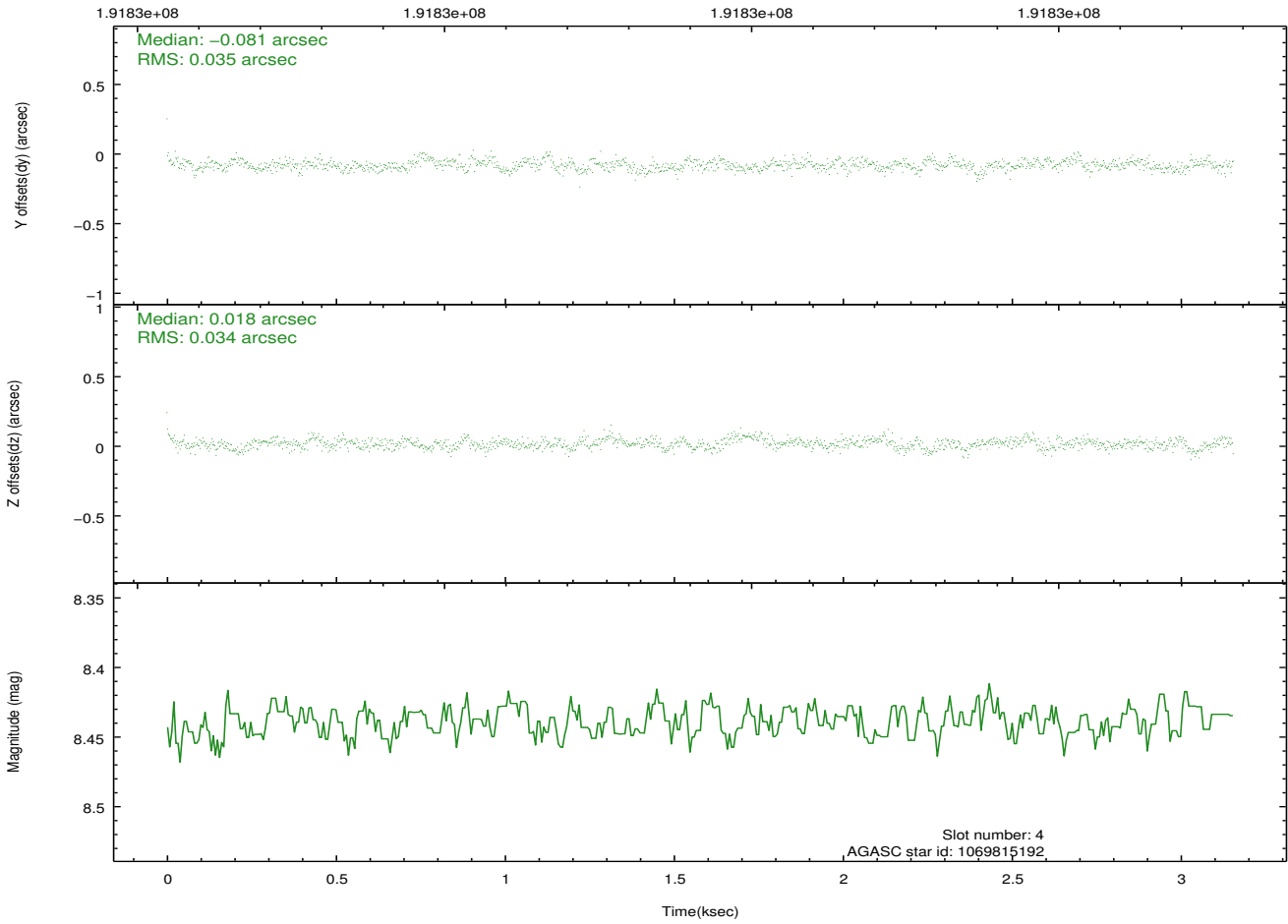
### 2.4.1 Slot 3



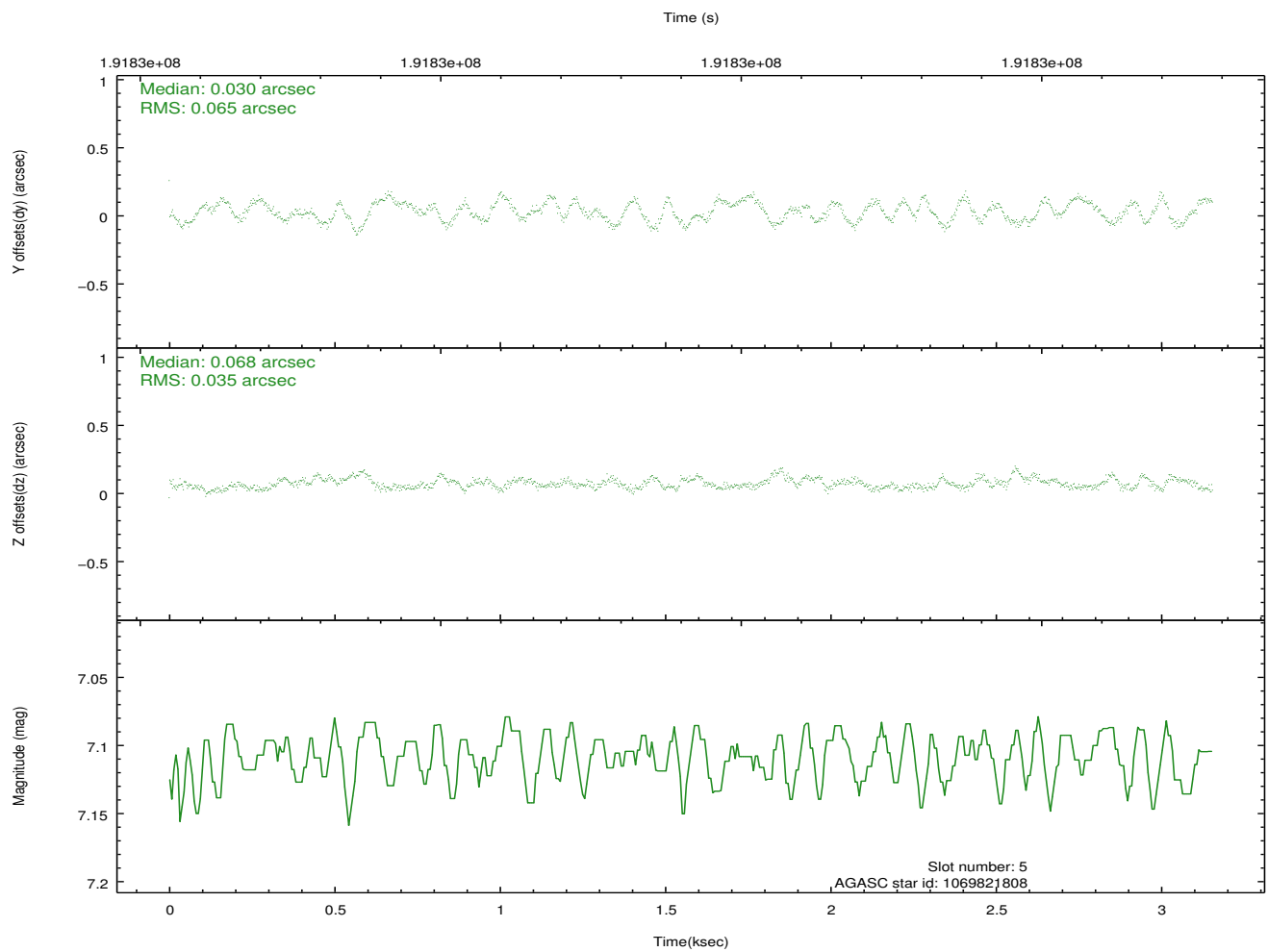
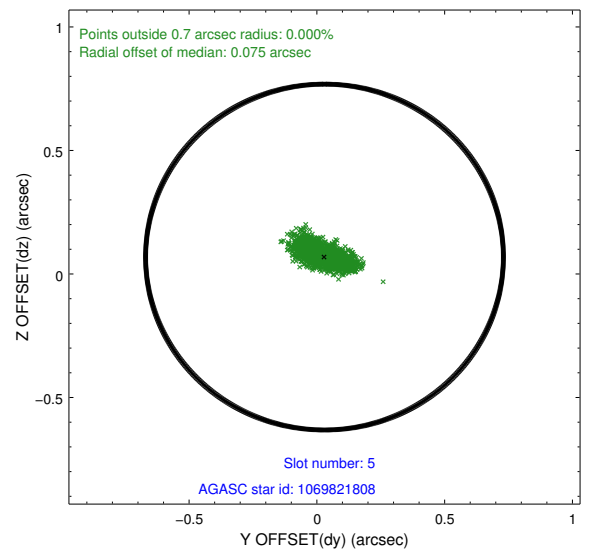
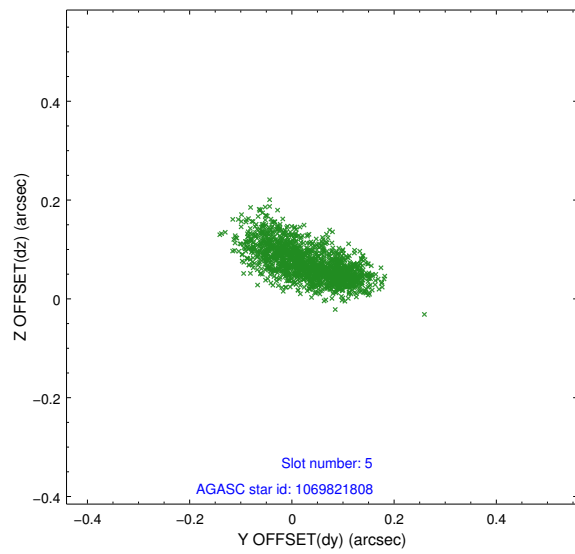
## 2.4.2 Slot 4



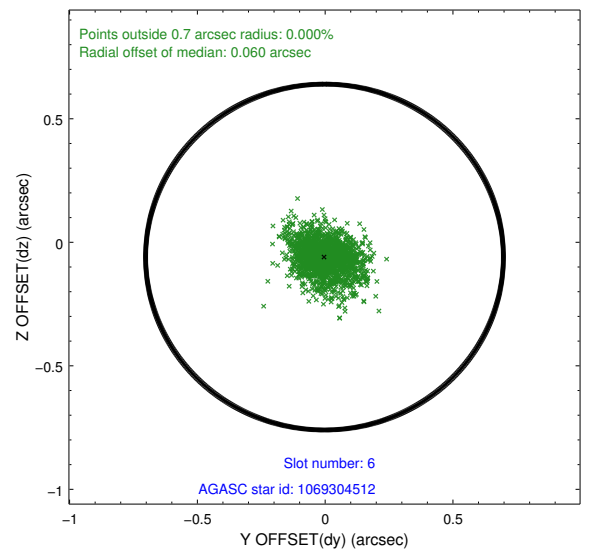
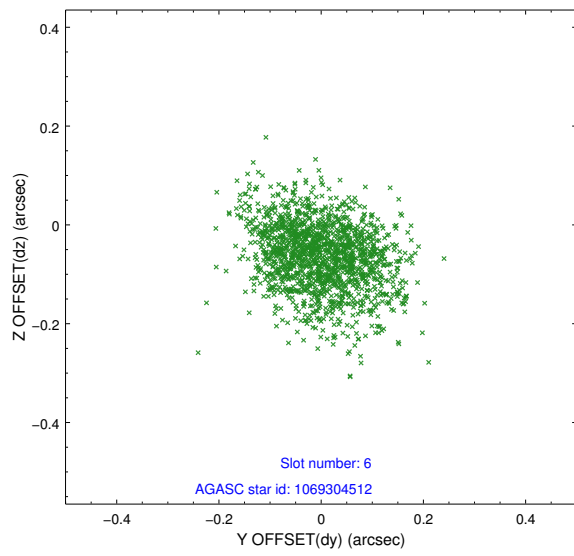
Time (s)



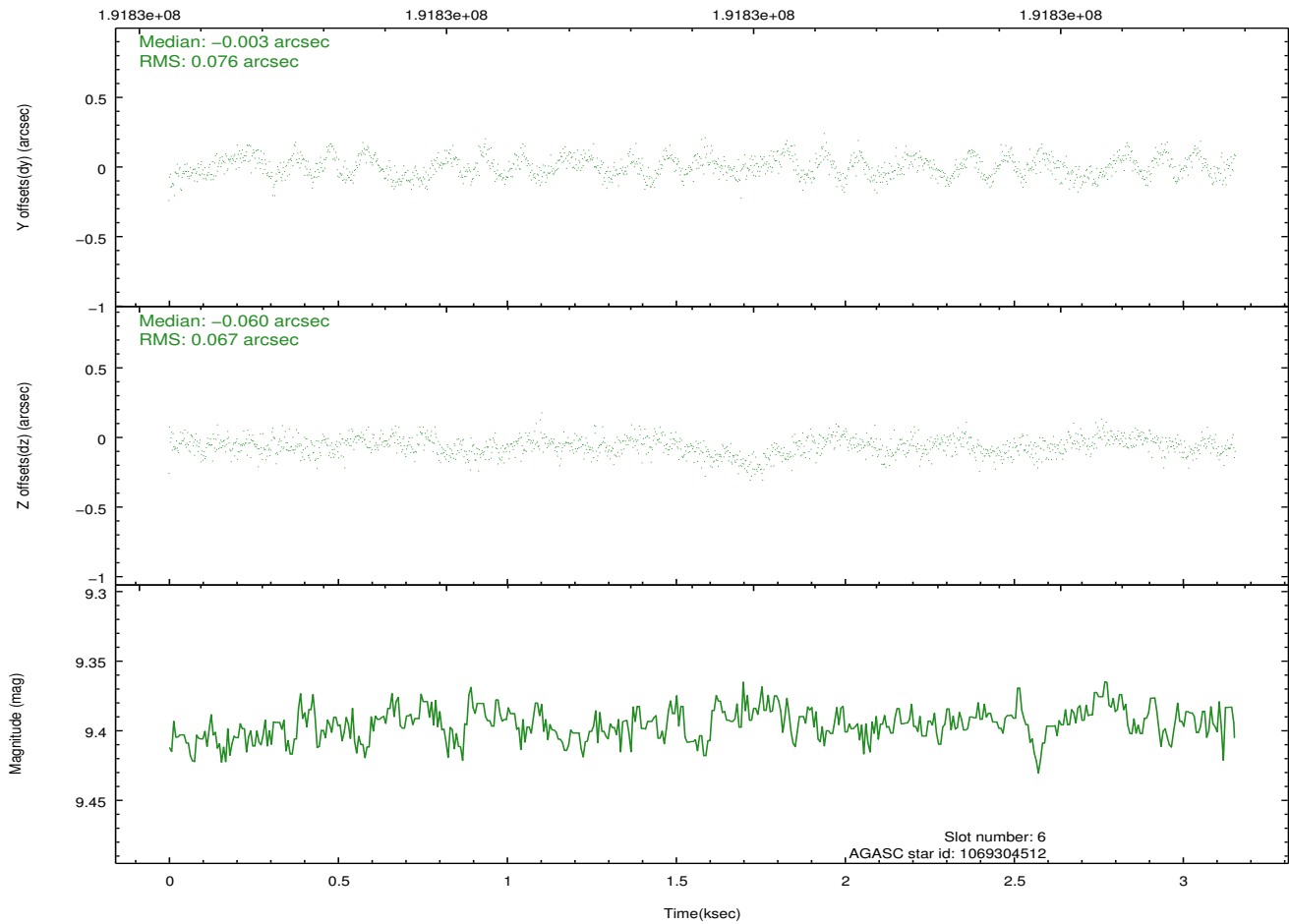
### 2.4.3 Slot 5



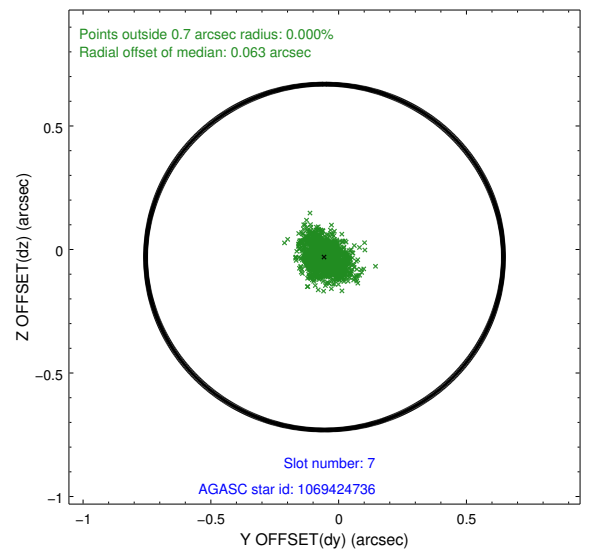
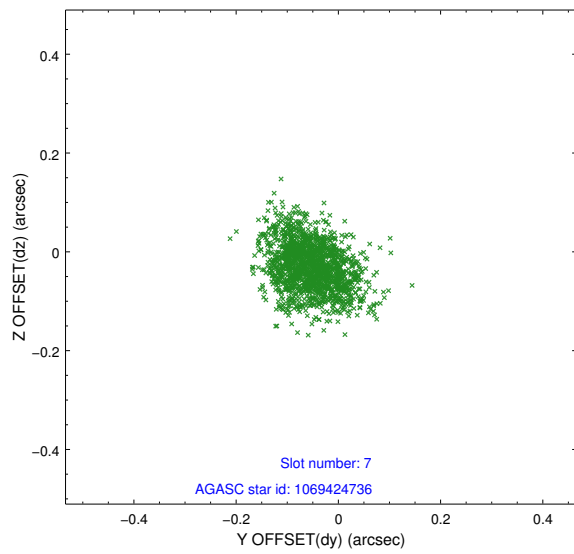
## 2.4.4 Slot 6



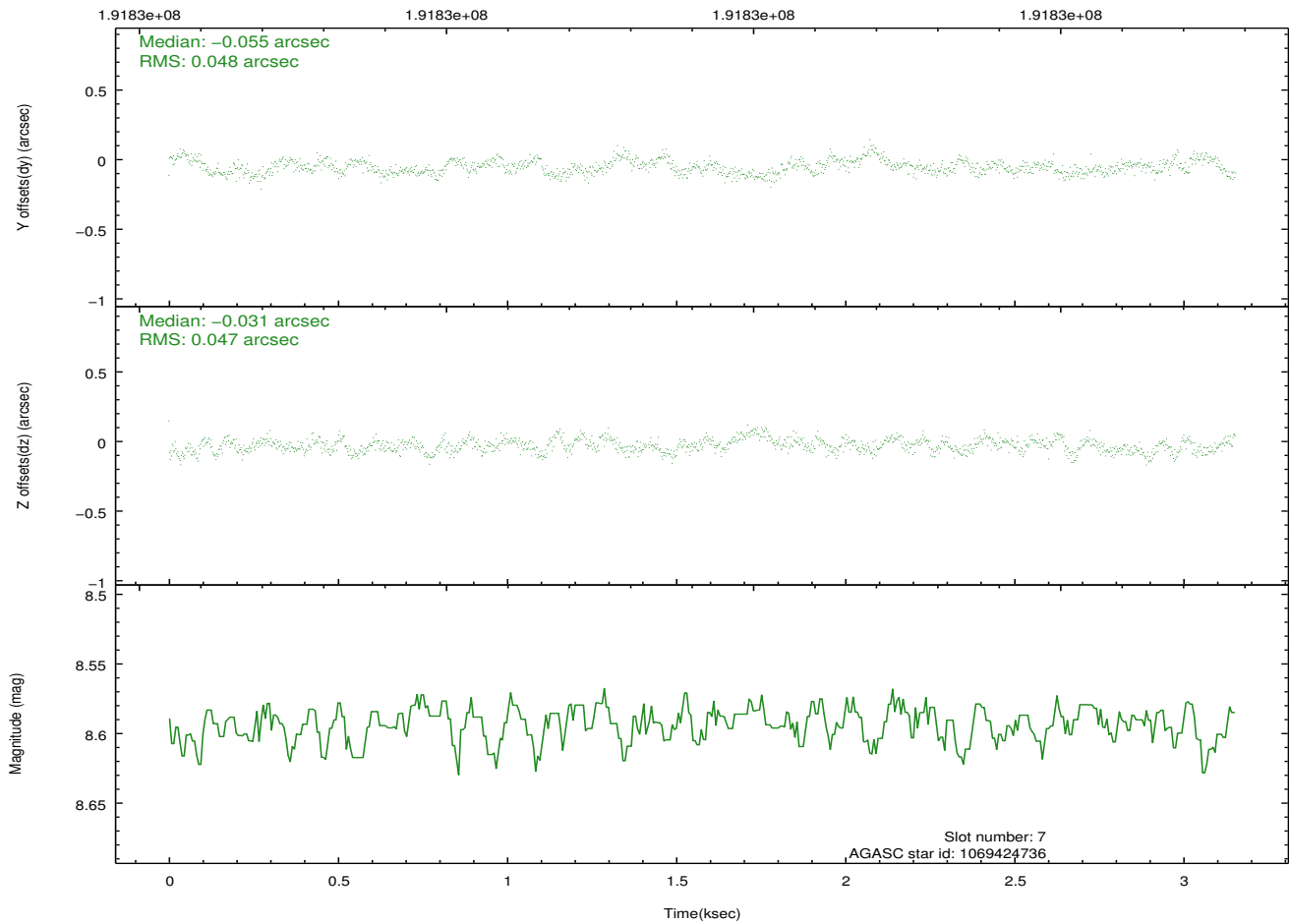
Time (s)



## 2.4.5 Slot 7

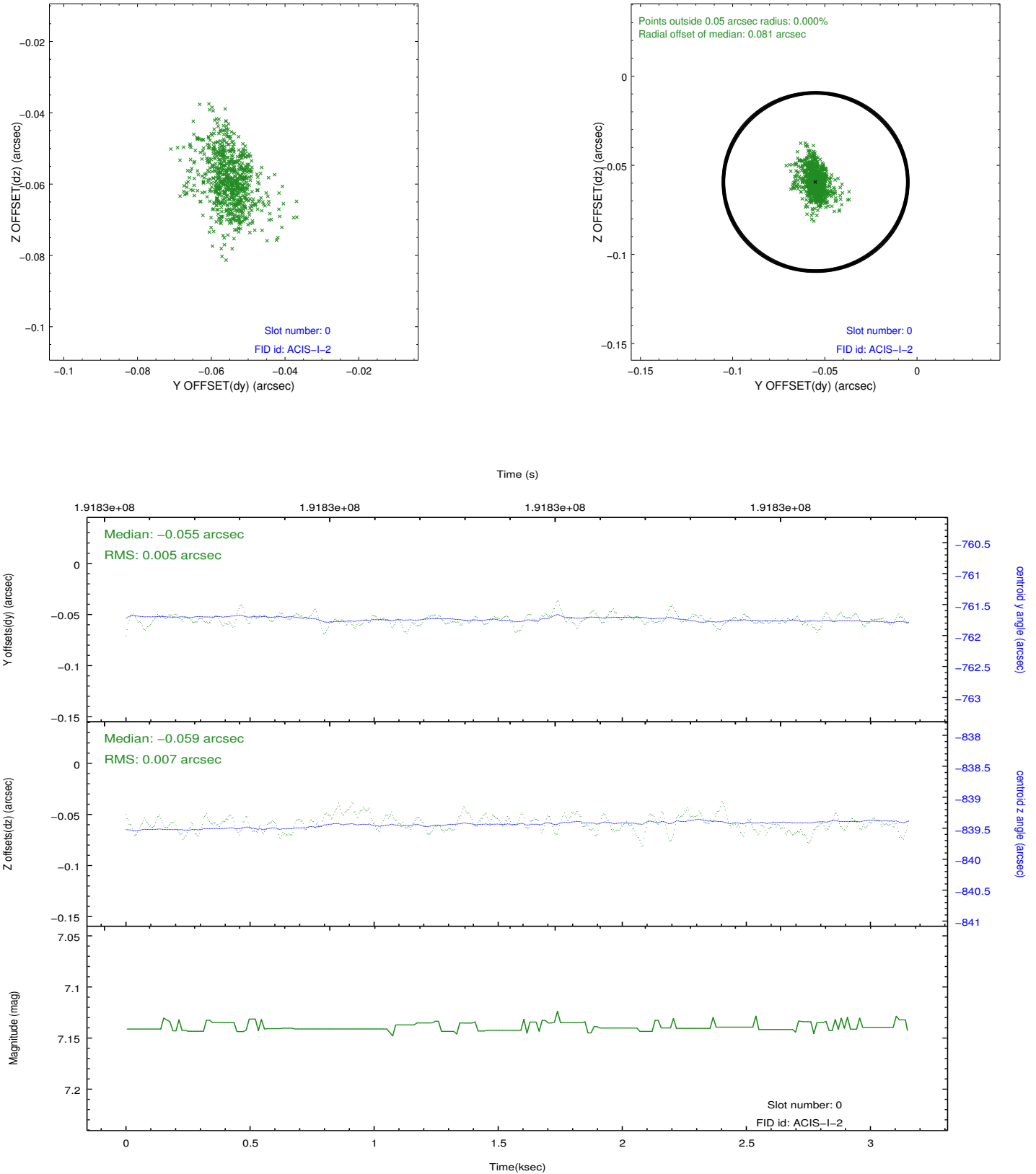


Time (s)

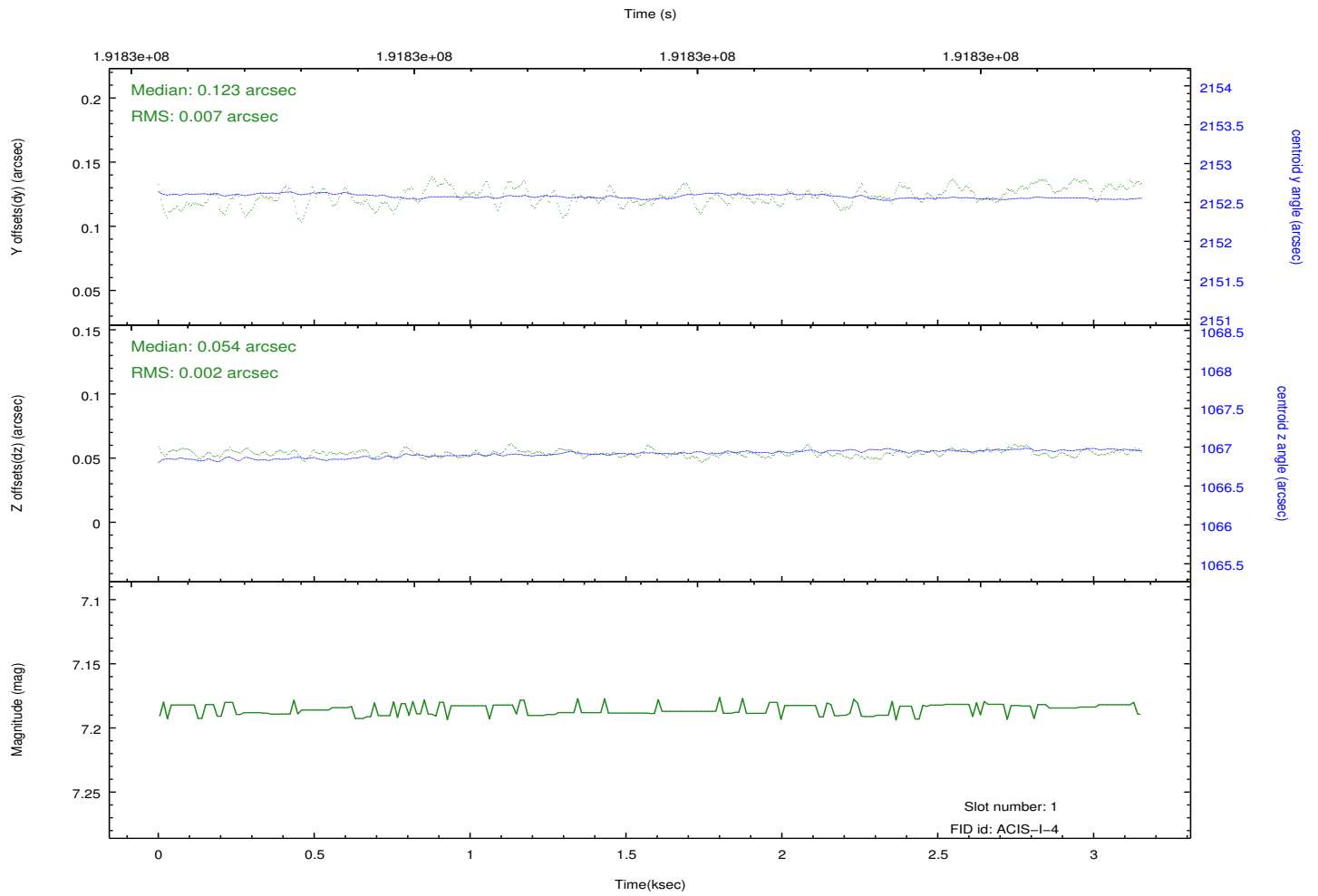
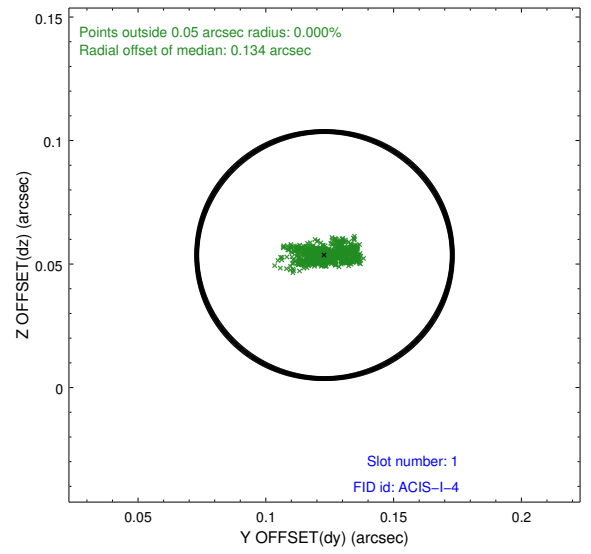
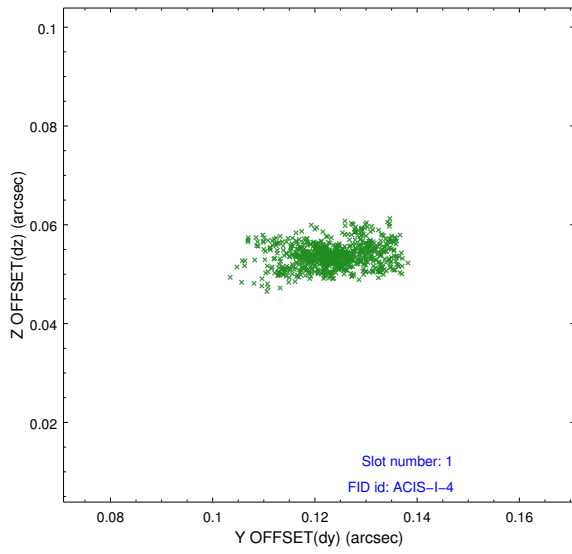


## 2.5 FID Slots

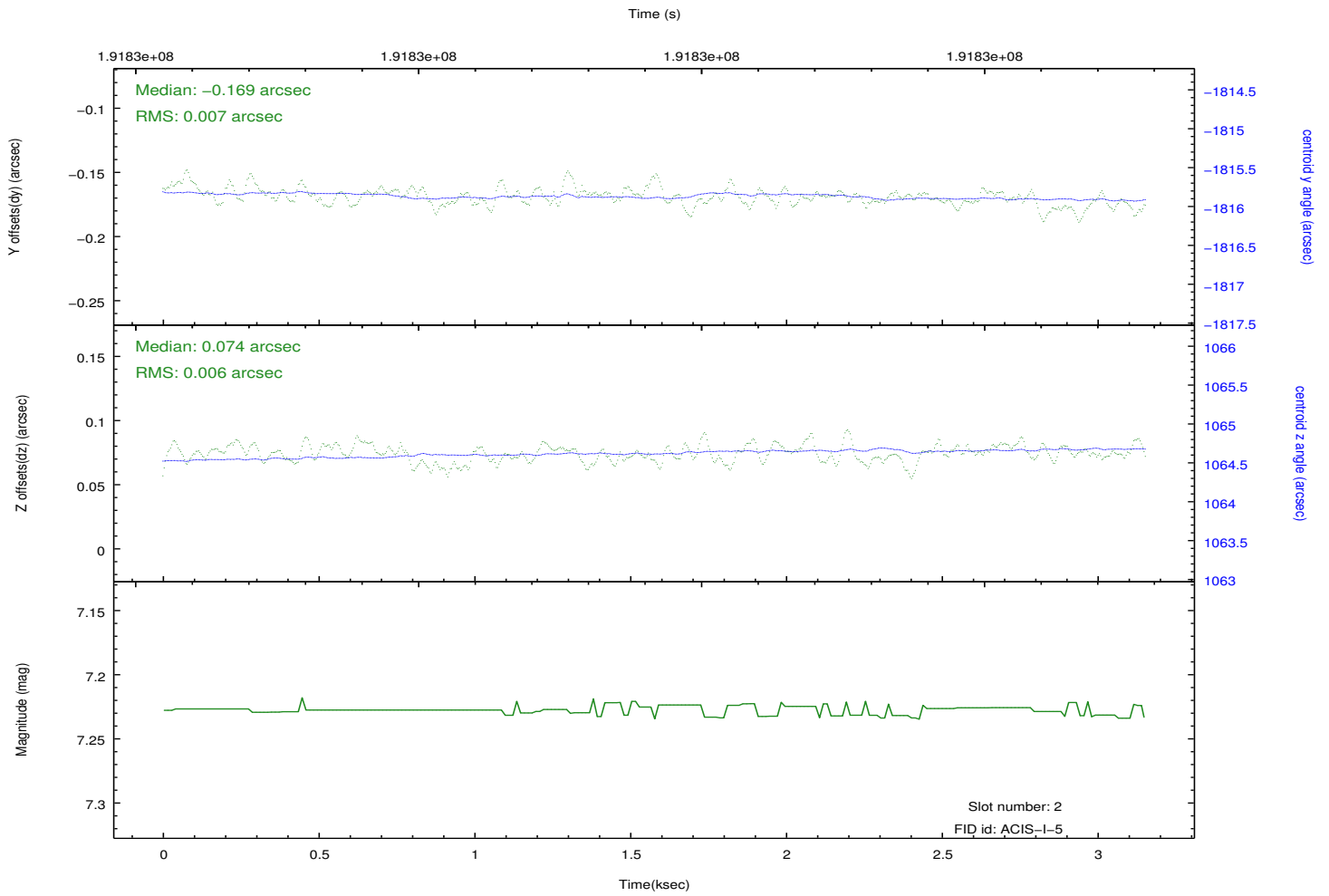
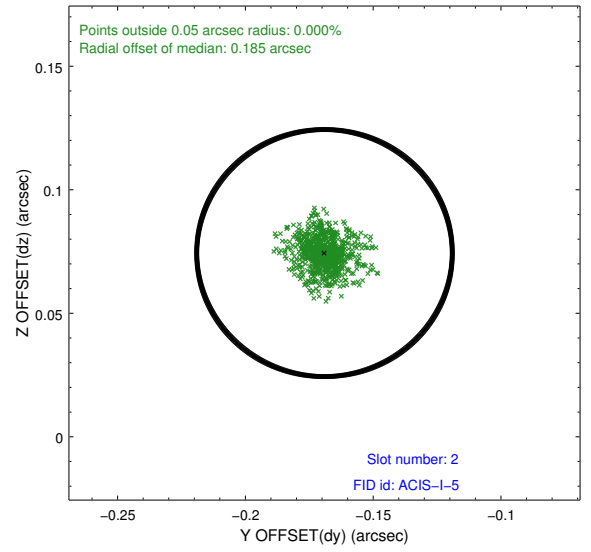
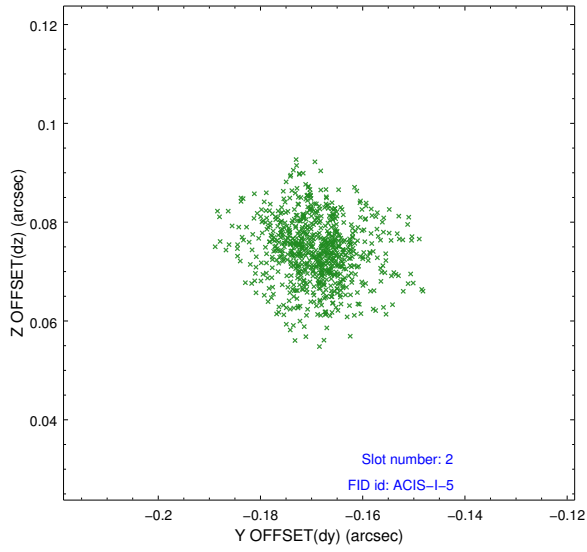
### 2.5.1 Slot 0



## 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)	2012.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.148

## A.2 Comments