

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8124 - L2 Version 3  
Chandra X-Ray Center

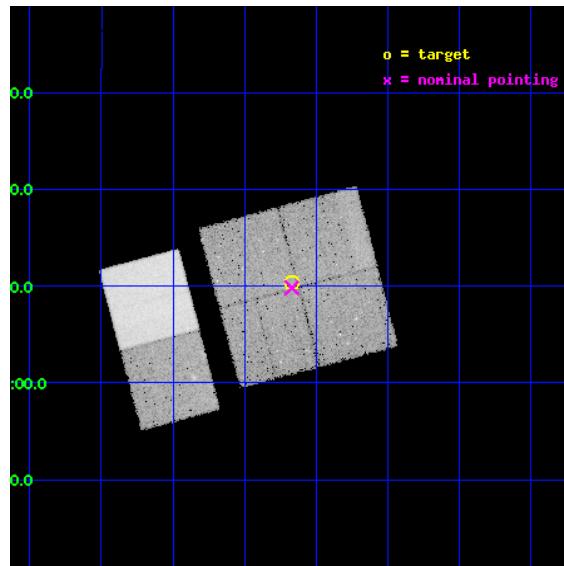
L2 Processing Date : Apr 22 2012

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# 1 Front

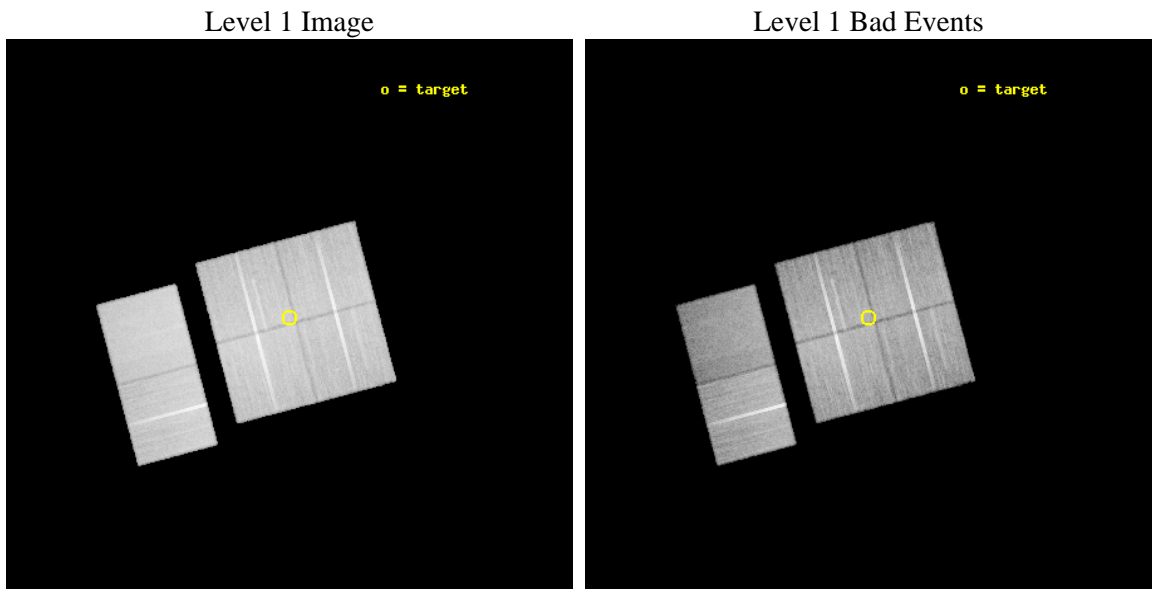
seq_num	900665	Sequence number
obs_id	8124	Observation id
title	THE CHANDRA-COSMOS SURVEY	Proposal title
observer	Dr. Martin Elvis	Principal investigator
object	C-COSMOS3-2	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.292017	Observer's specified target RA [deg]
dec_targ	2.171831	Observer's specified target Dec [deg]
ra_nom	150.29237604587	Nominal RA [deg]
dec_nom	2.1637674391664	Nominal Dec [deg]
roll_nom	255.20867530989	Nominal Roll [deg]
revision	3	Processing version of data
ontime	32095.876879454	Sum of GTIs [s]
livetime	31689.459560589	Livetime [s]
ontime0	32102.358890176	Sum of GTIs [s]
ontime1	32102.358880103	Sum of GTIs [s]
ontime2	32099.117929459	Sum of GTIs [s]
ontime3	32095.876879454	Sum of GTIs [s]
ontime6	32102.358880103	Sum of GTIs [s]
ontime7	32105.599880457	Sum of GTIs [s]
l2events	232058	Number of level 2 events



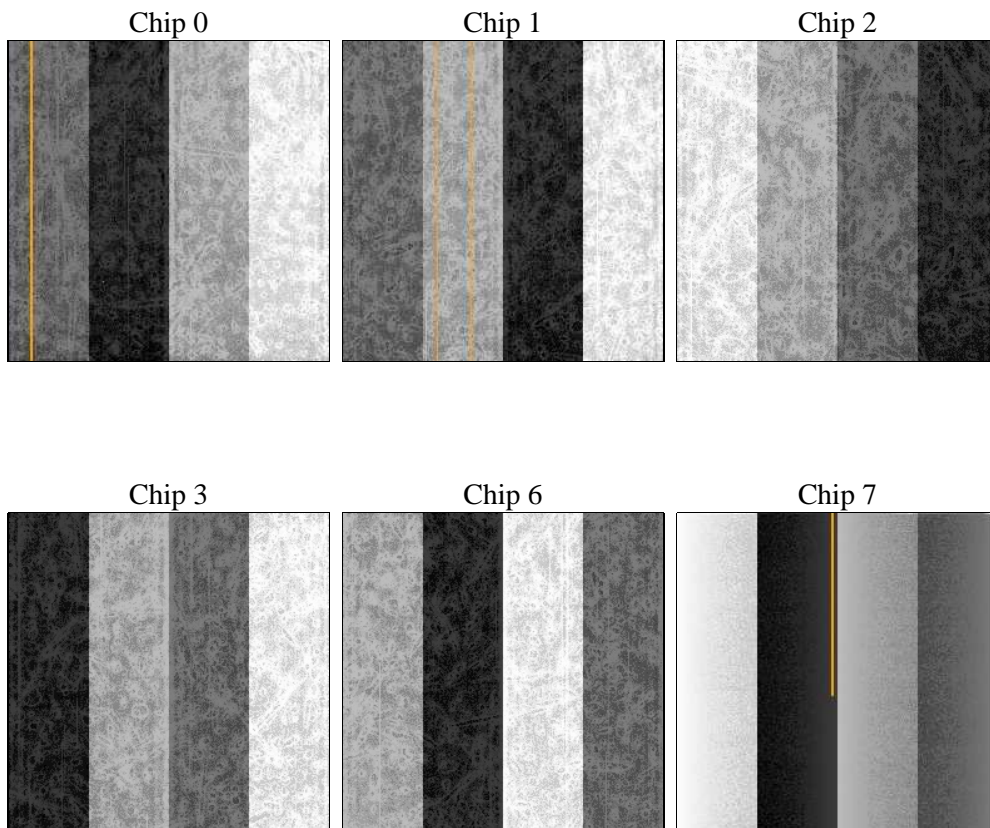
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	32347.892000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	32095.876879454	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	32102.358890176	Sum of GTIs [s]
date	2012-04-22T20:43:08	Date and time of file creation	ontime1	32102.358880103	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	32099.117929459	Sum of GTIs [s]
			ontime3	32095.876879454	Sum of GTIs [s]
			ontime6	32102.358880103	Sum of GTIs [s]
			ontime7	32105.599880457	Sum of GTIs [s]
			l1events	1567001	Number of level 1 events

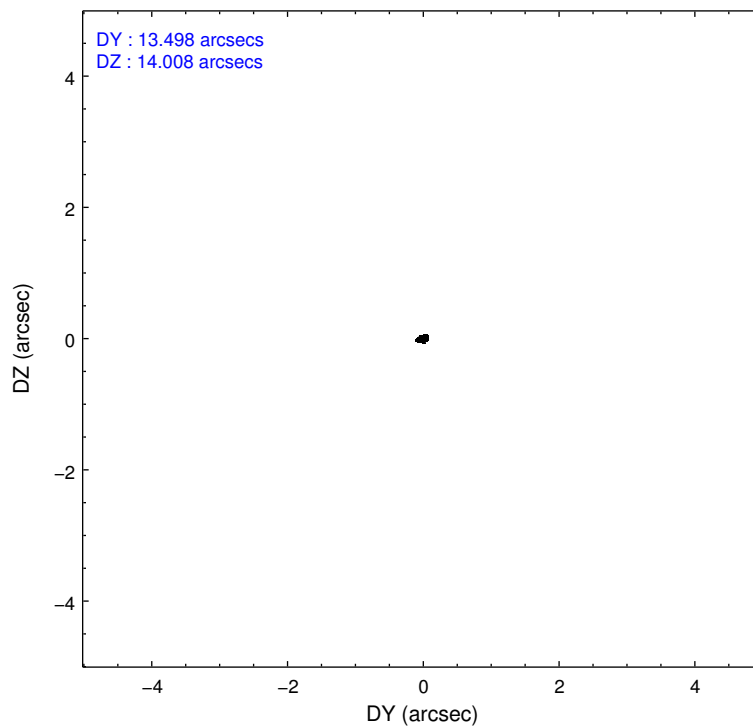
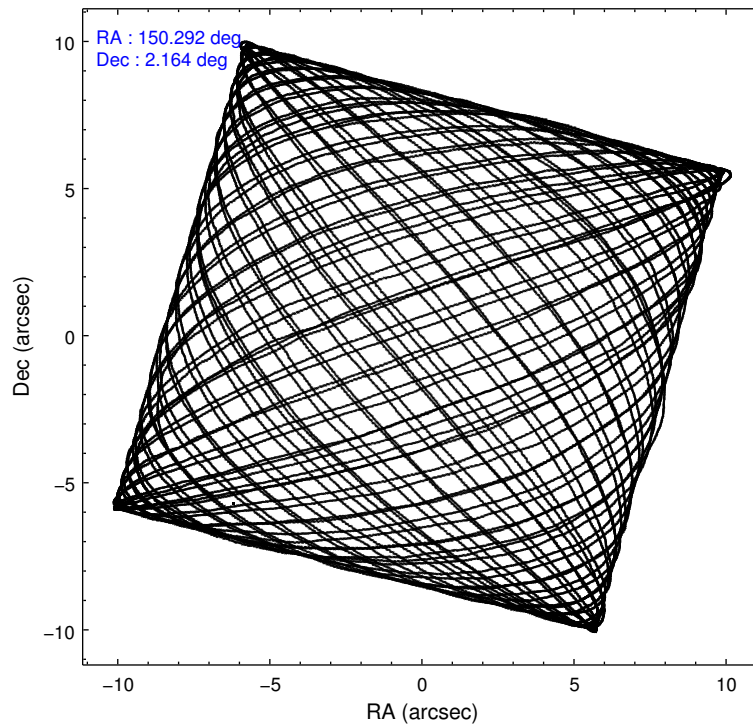
### 2.1.4 Events

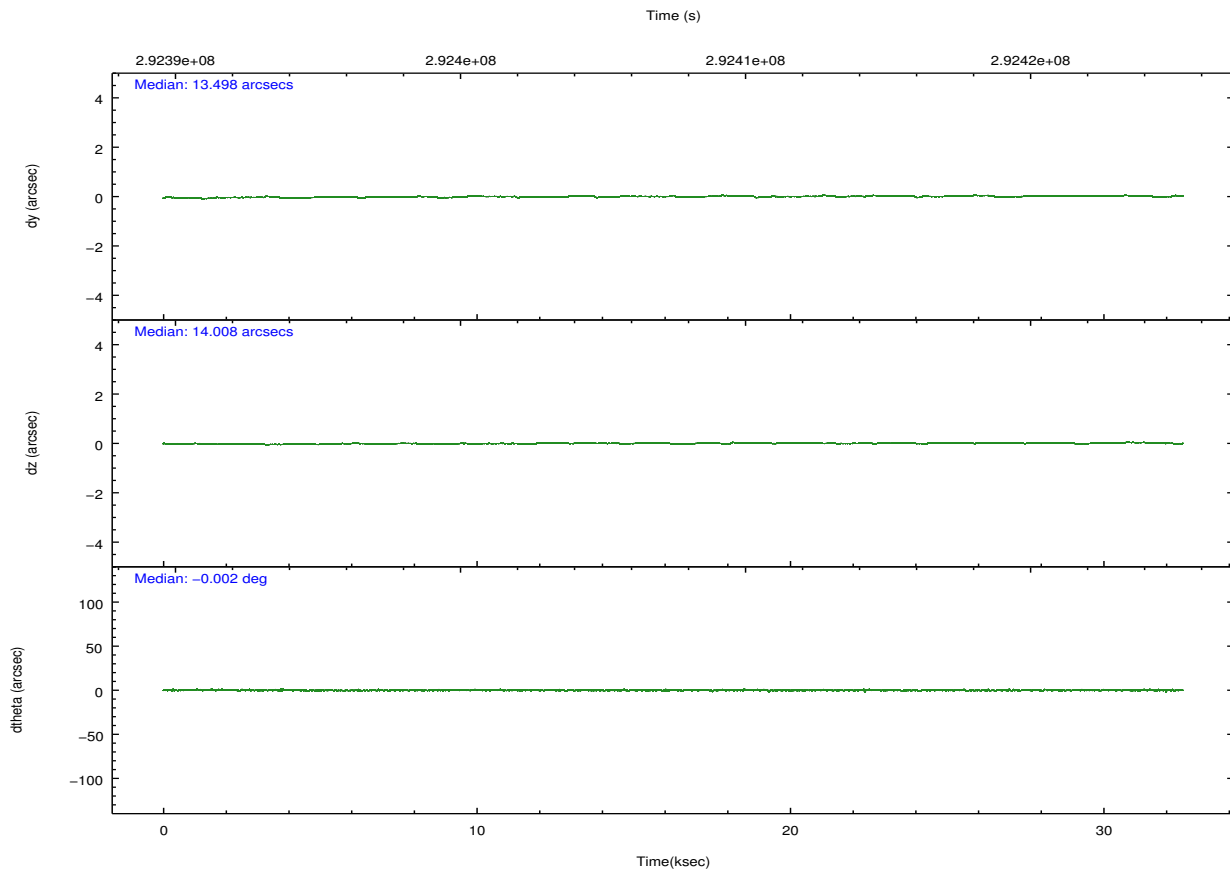
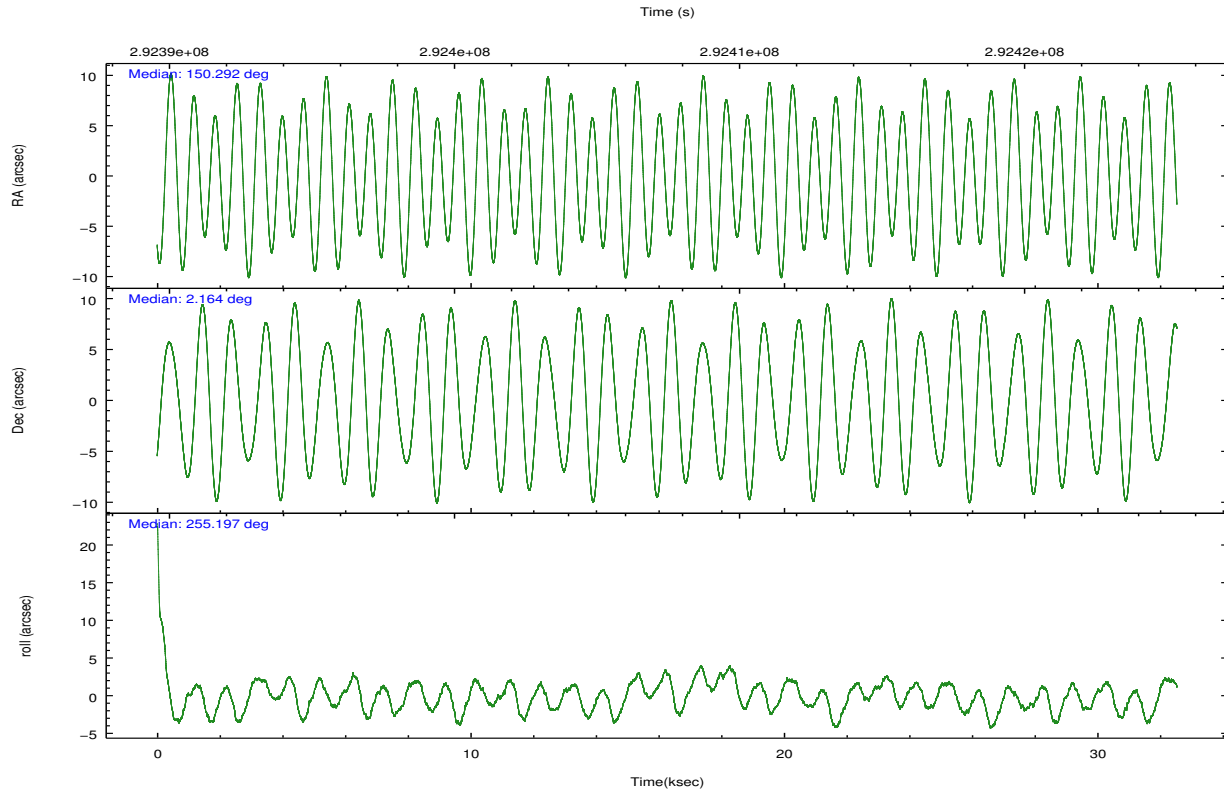
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	240665	239918	277063	251599	272288	285468	grade 0 events	8764	10093	8841	8362	9188	12040
rejected events	215605	211713	252441	227941	245689	156140		3%	4%	3%	3%	3%	4%
rejected %	89%	88%	91%	90%	90%	54%	grade 1 events	142	127	143	138	149	336
								0%	0%	0%	0%	0%	0%
							grade 2 events	5885	6242	5927	5098	5892	25719
								2%	2%	2%	2%	2%	9%
							grade 3 events	2943	3091	2649	2665	2902	11942
								1%	1%	0%	1%	1%	4%
							grade 4 events	2646	3060	2700	2691	2849	11758
								1%	1%	0%	1%	1%	4%
							grade 5 events	8618	9611	8176	10277	10432	29898
								3%	4%	2%	4%	3%	10%
							grade 6 events	4827	5722	4515	4844	5776	67896
								2%	2%	1%	1%	2%	23%
							grade 7 events	206840	201972	244112	217524	235100	125879
								85%	84%	88%	86%	86%	44%

## 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	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	150.285046	150.2923760458651	CCD I2 on	Y	Y
[deg] Pointing Dec	2.190261	2.163767439166376	CCD I3 on	Y	Y
[deg] Pointing Roll	255.000269	255.2086753098923	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	292391372.184000	292390996.29133	CCD S5 on	N	N
Observation start date	2007-04-08T03:48:27	2007-04-08T03:43:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	292423720.184000	292423953.6304	On-chip summing requested	N	N
Observation end date	2007-04-08T12:47:35	2007-04-08T12:52:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



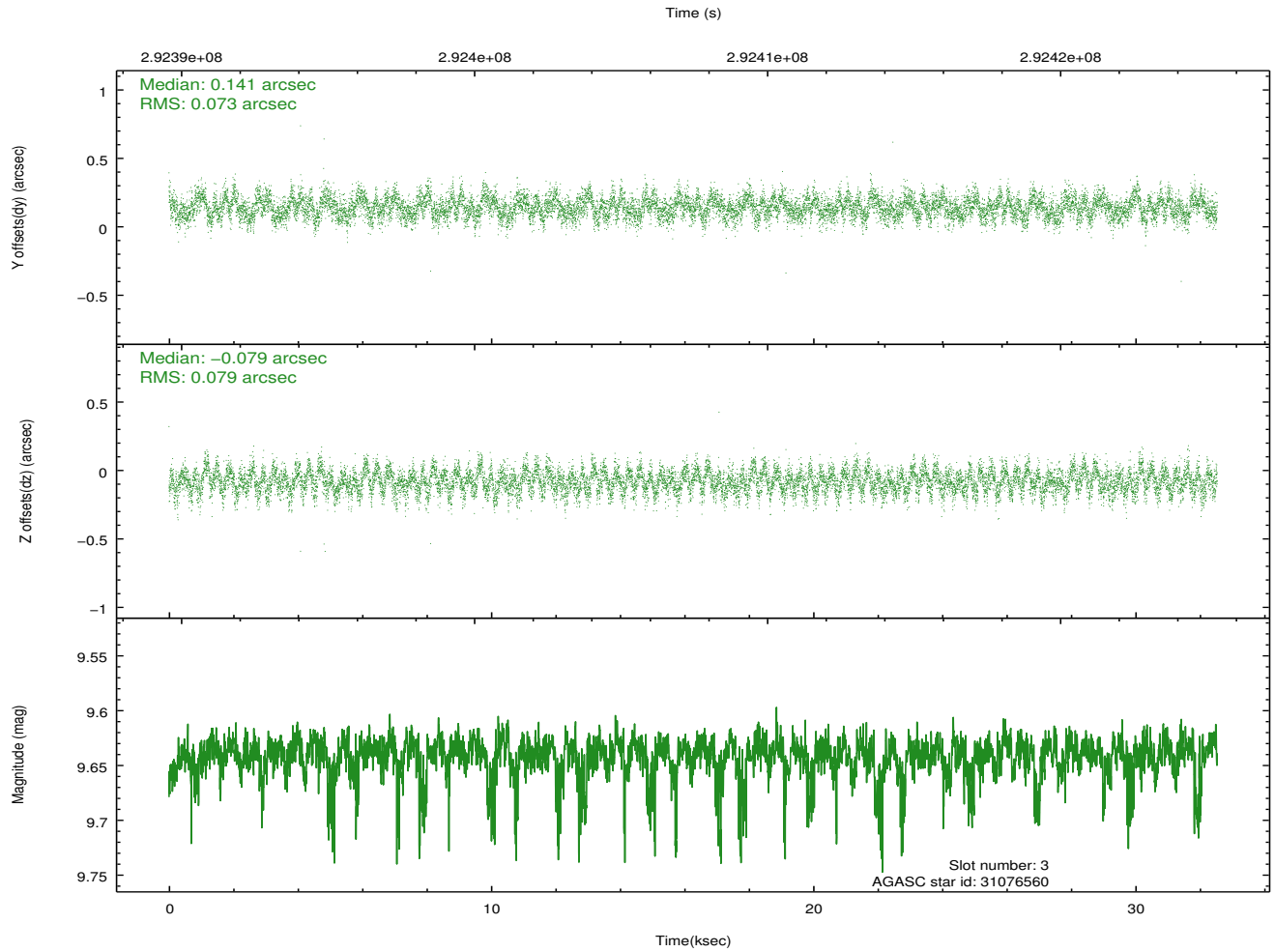
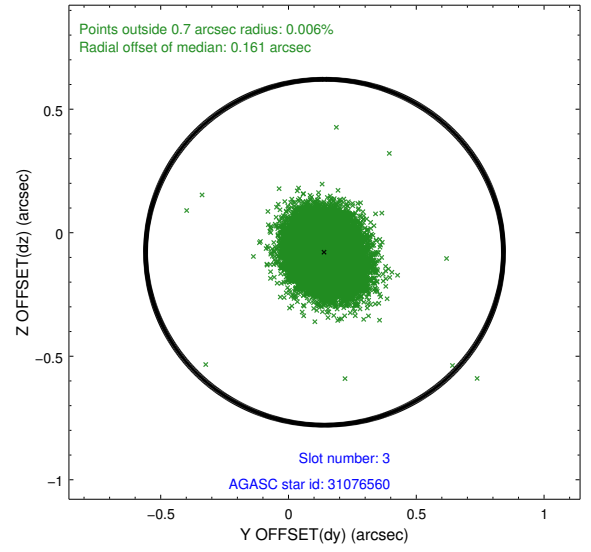
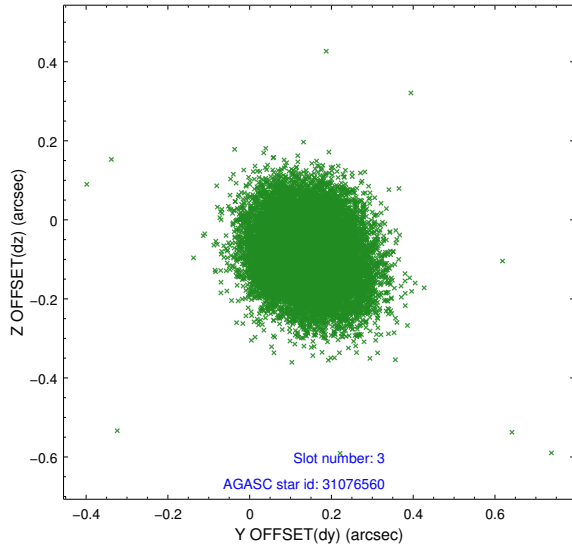


### Slot Statistics

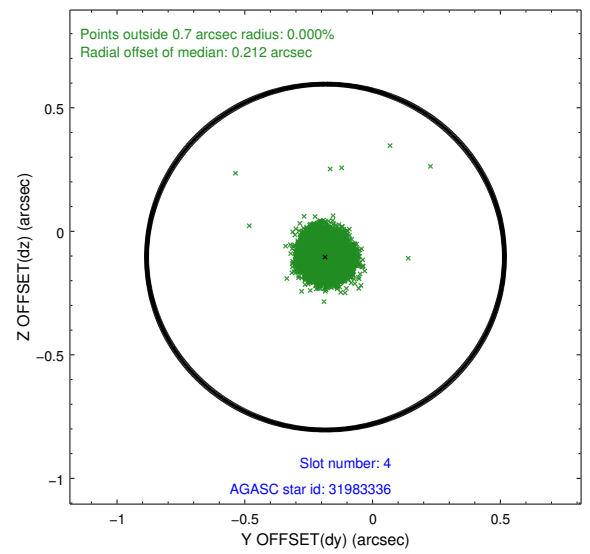
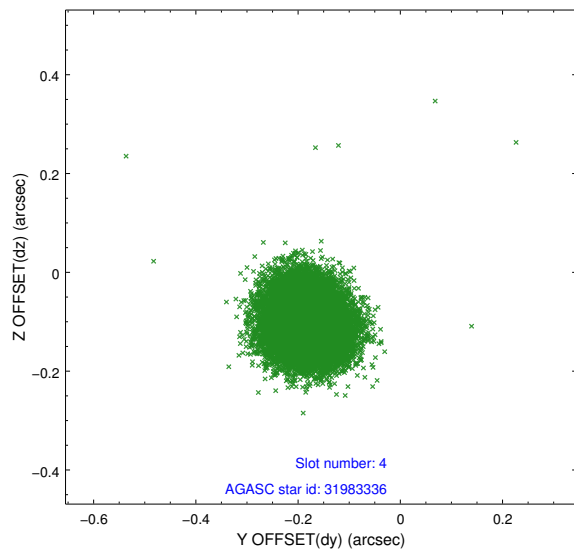
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	7935	0.035	0.011	0.006	0.011	0.000000	0.000000	926.05	-837.56
1	FID	ACIS-I-5	7.23	7936	-0.222	0.041	0.006	0.010	0.000000	0.000000	-1822.30	1059.91
2	FID	ACIS-I-6	7.24	7935	0.095	0.017	0.007	0.011	0.000000	0.000000	391.58	1704.47
3	GUIDE	31076560	9.64	15834	0.141	-0.079	0.114	0.182	149.884782	2.009277	1002.77	-1221.99
4	GUIDE	31983336	8.59	15867	-0.184	-0.104	0.065	0.103	150.429924	2.291234	-485.97	409.14
5	GUIDE	31985760	8.47	15863	-0.043	-0.051	0.107	0.172	150.924581	2.094394	-262.67	2311.52
6	GUIDE	31986152	9.02	15856	0.179	0.203	0.096	0.159	150.840314	2.057585	-55.88	2053.28
7	GUIDE	32374896	9.24	15855	-0.086	0.035	0.183	0.256	150.682269	2.512794	-1491.44	1079.47

## 2.4 Star Slots

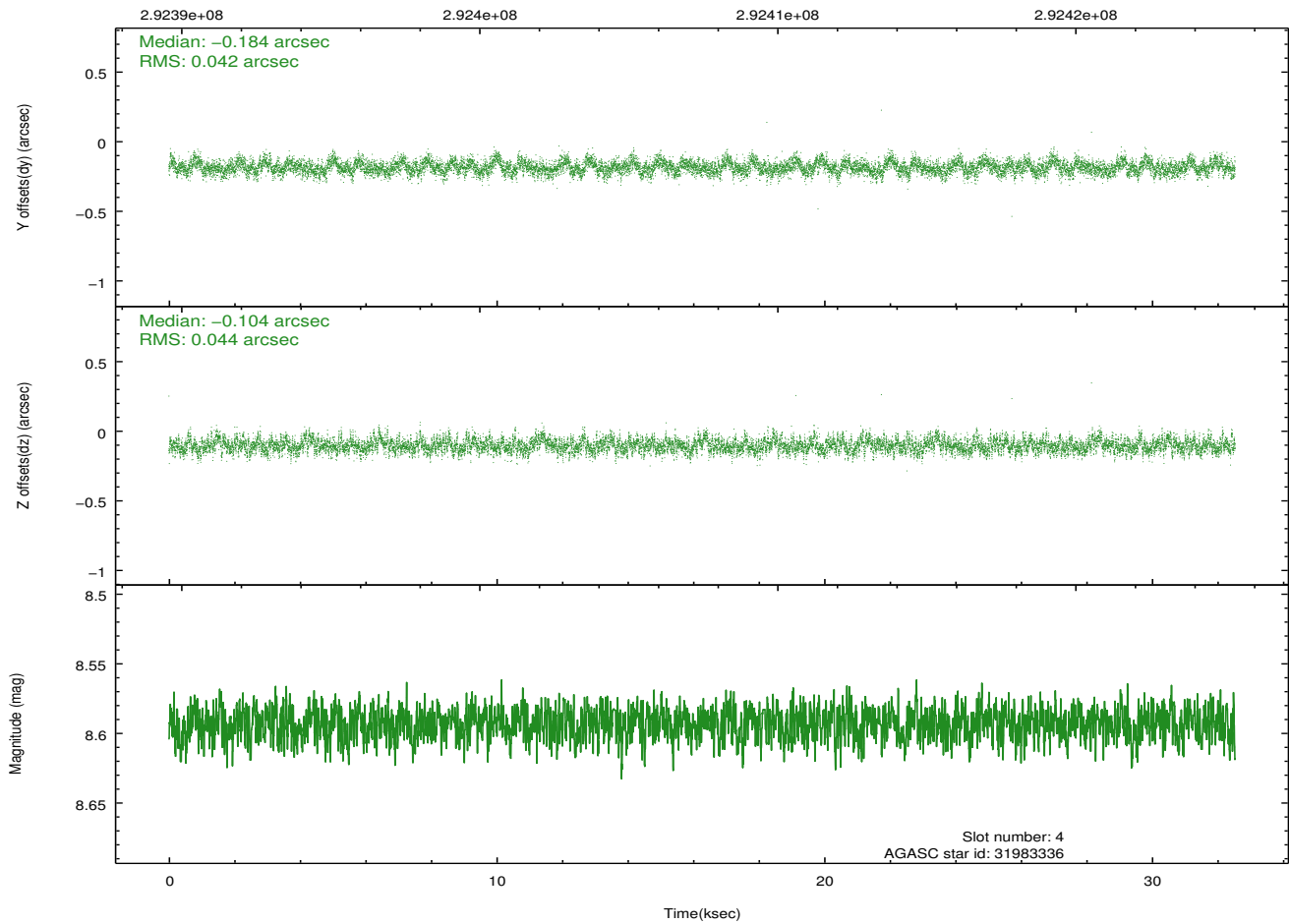
### 2.4.1 Slot 3



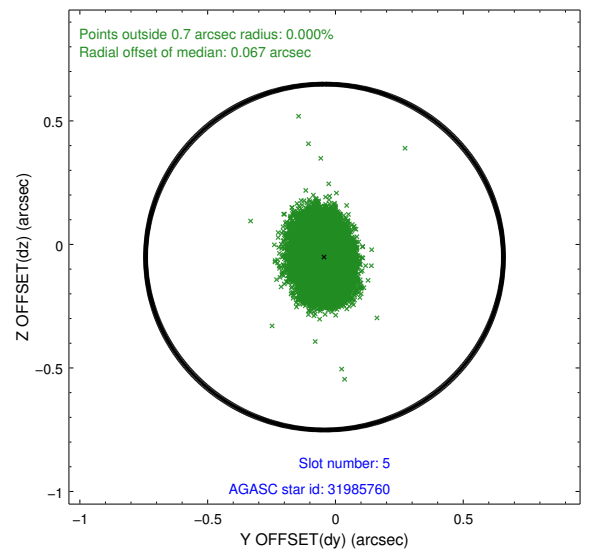
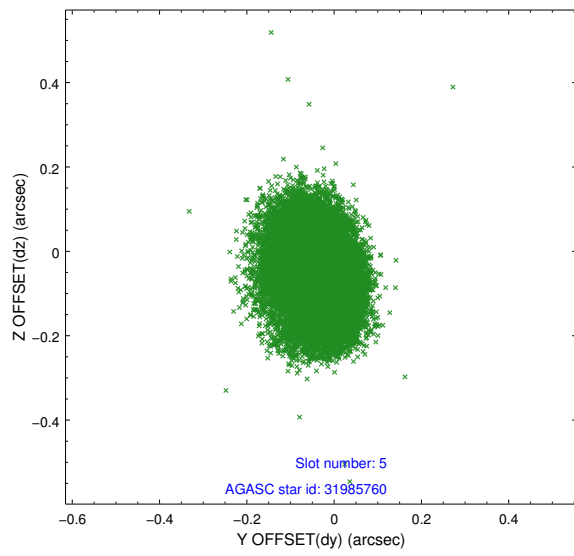
## 2.4.2 Slot 4



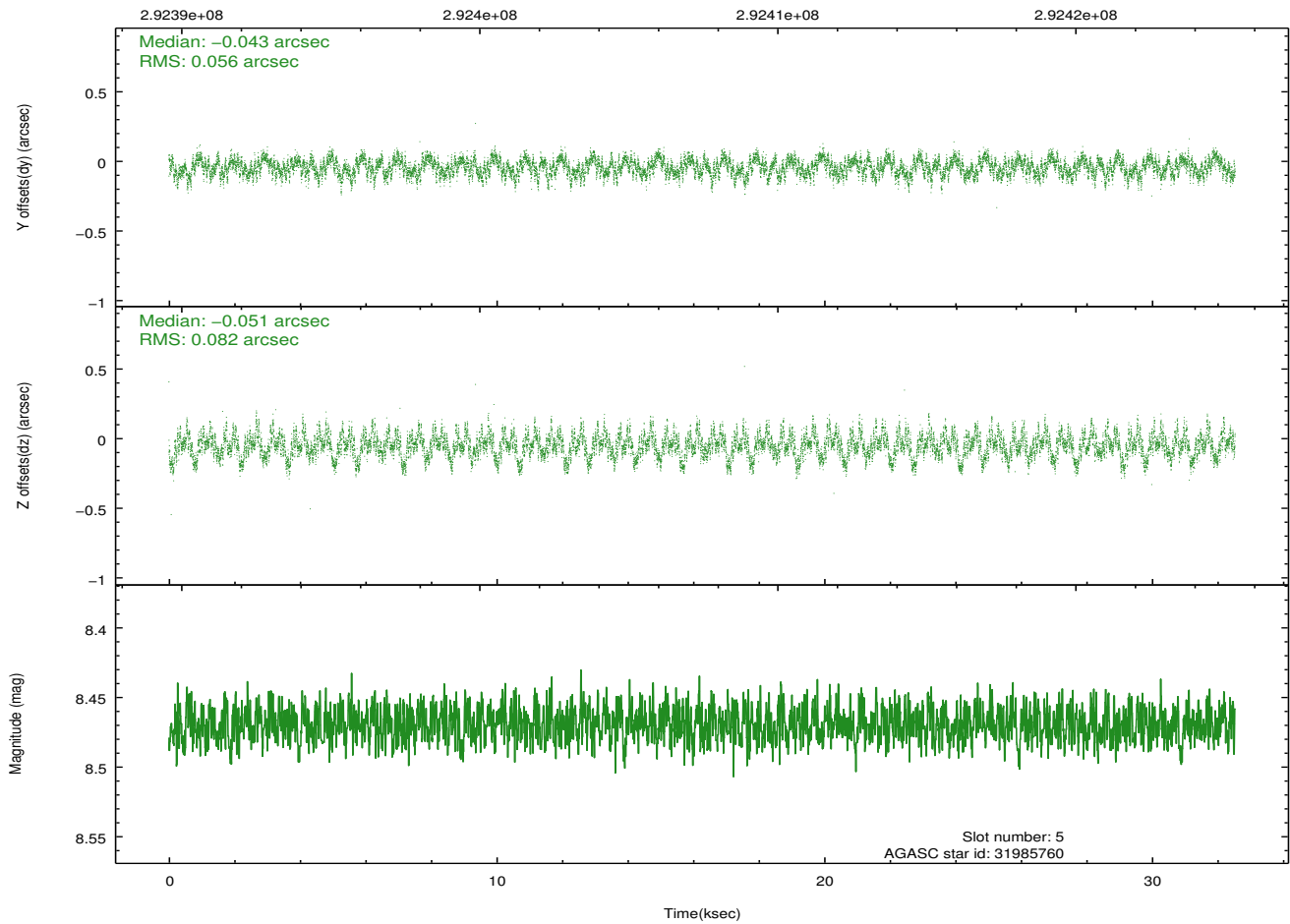
Time (s)



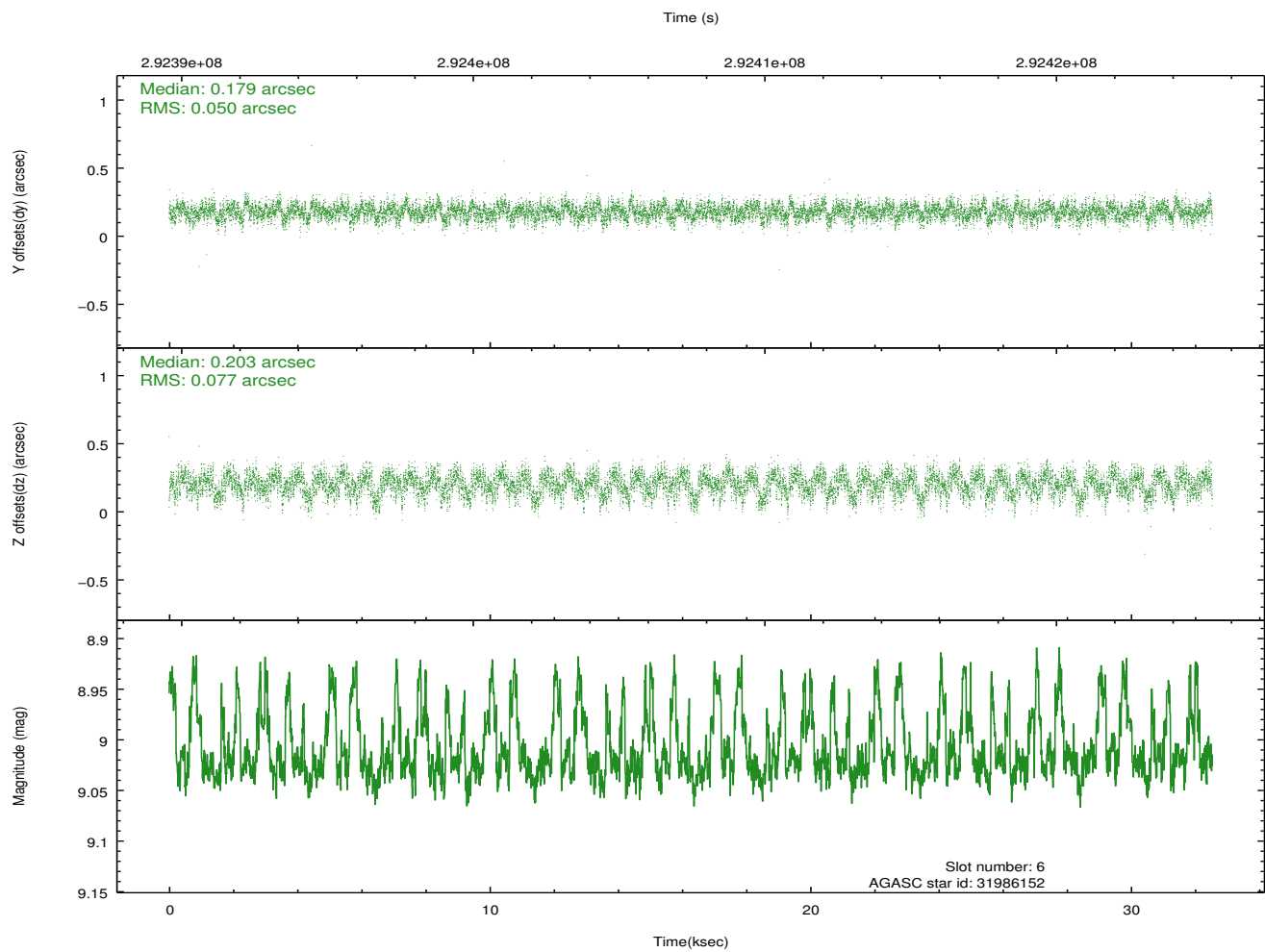
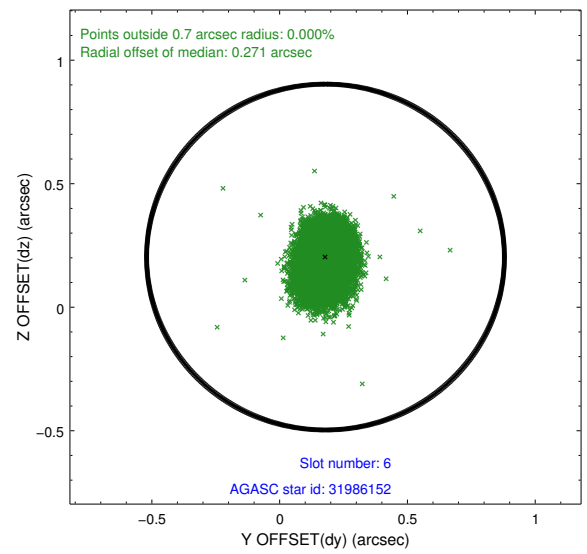
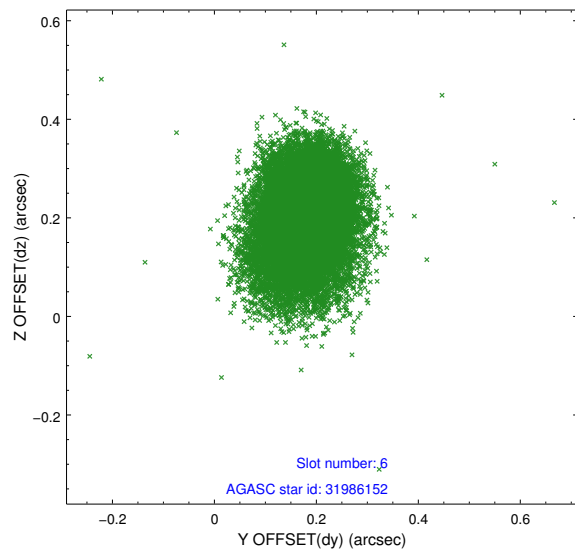
### 2.4.3 Slot 5



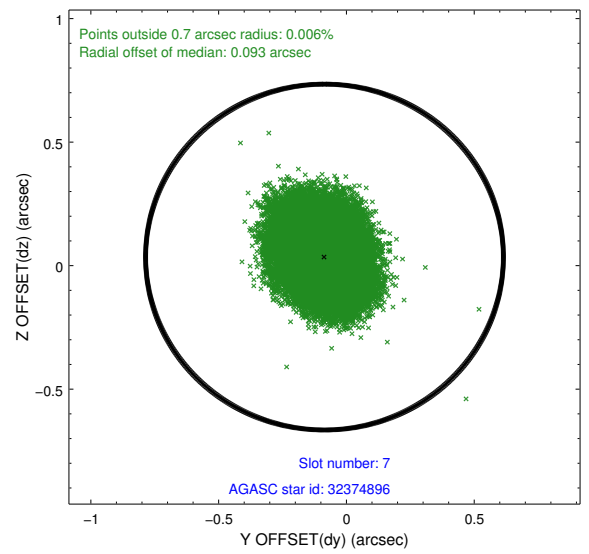
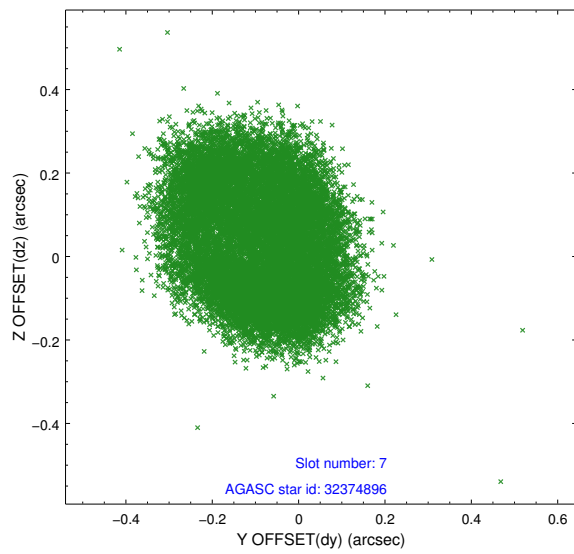
Time (s)



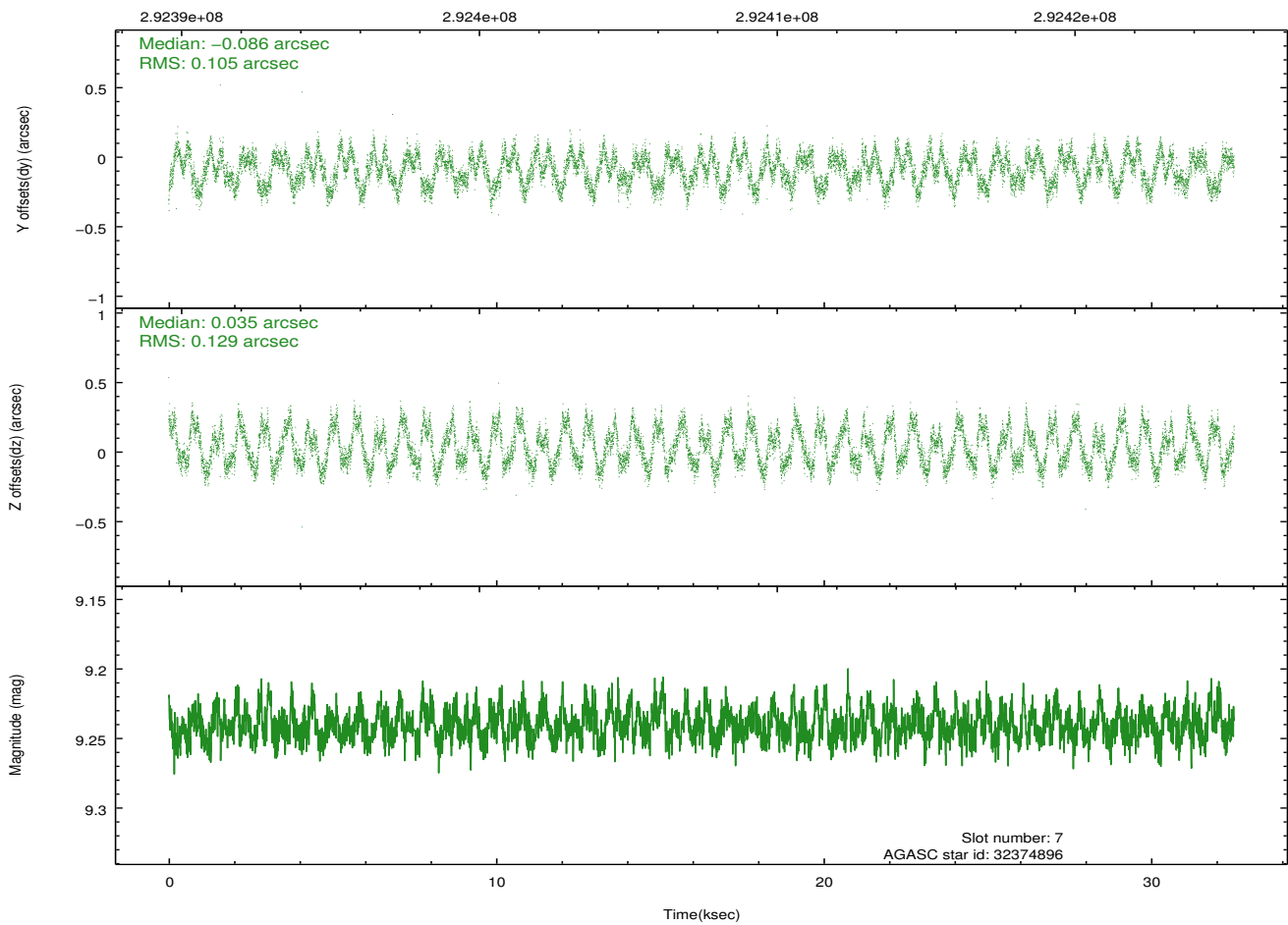
## 2.4.4 Slot 6



## 2.4.5 Slot 7

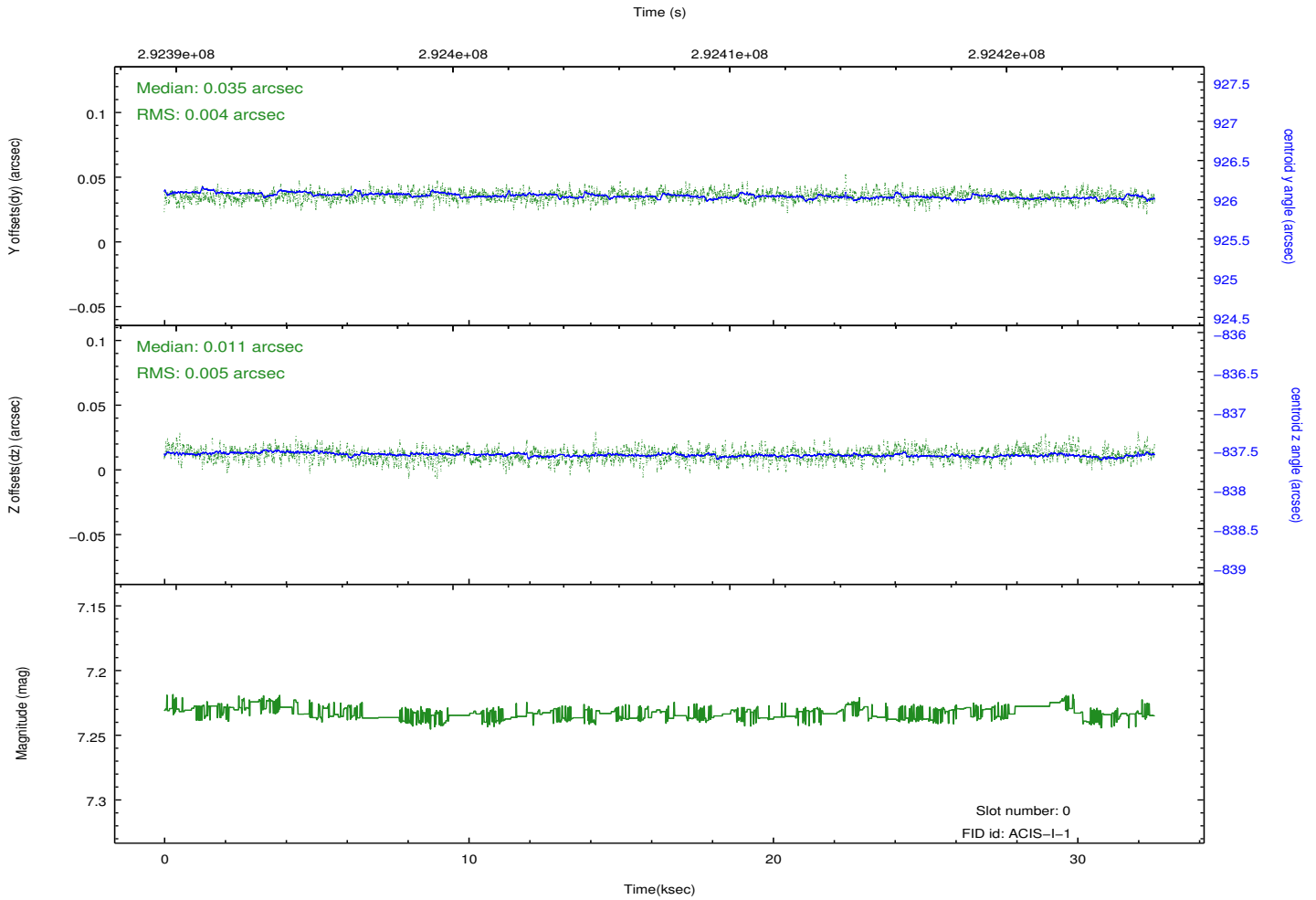
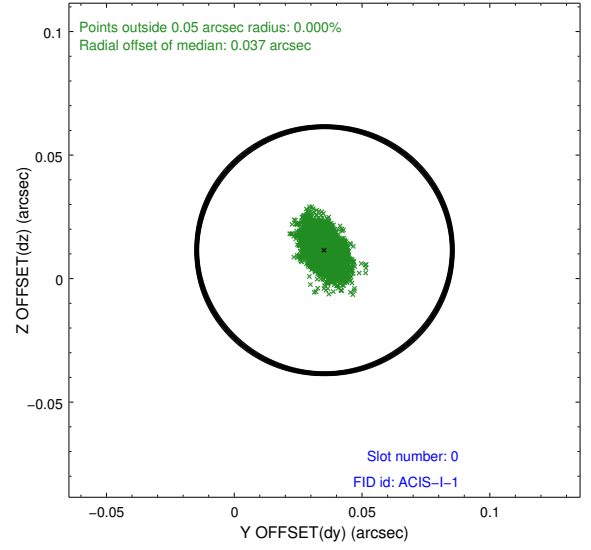
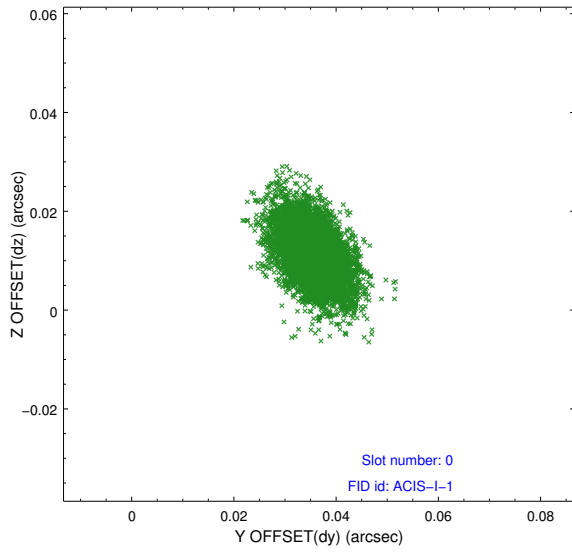


Time (s)

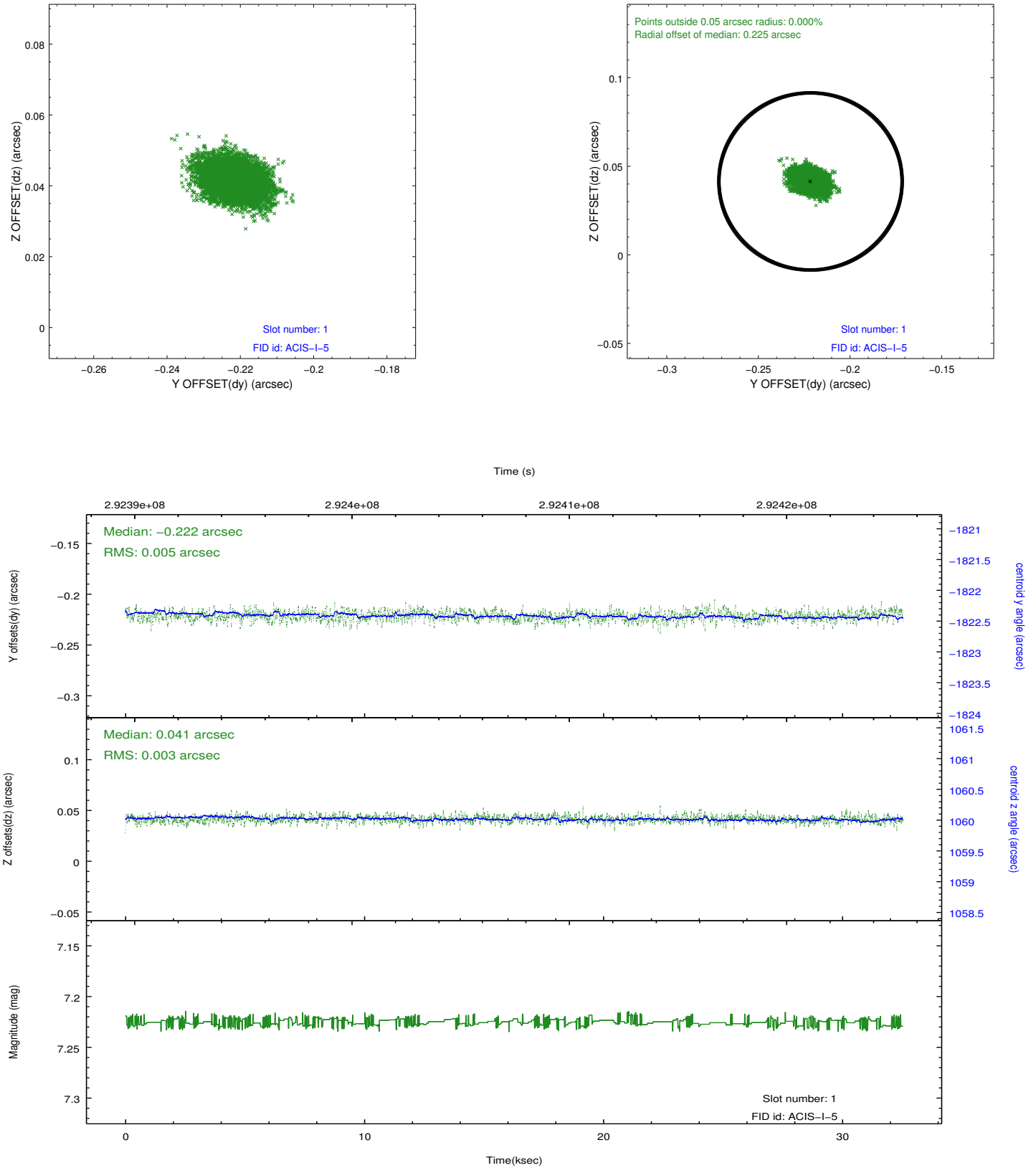


## 2.5 FID Slots

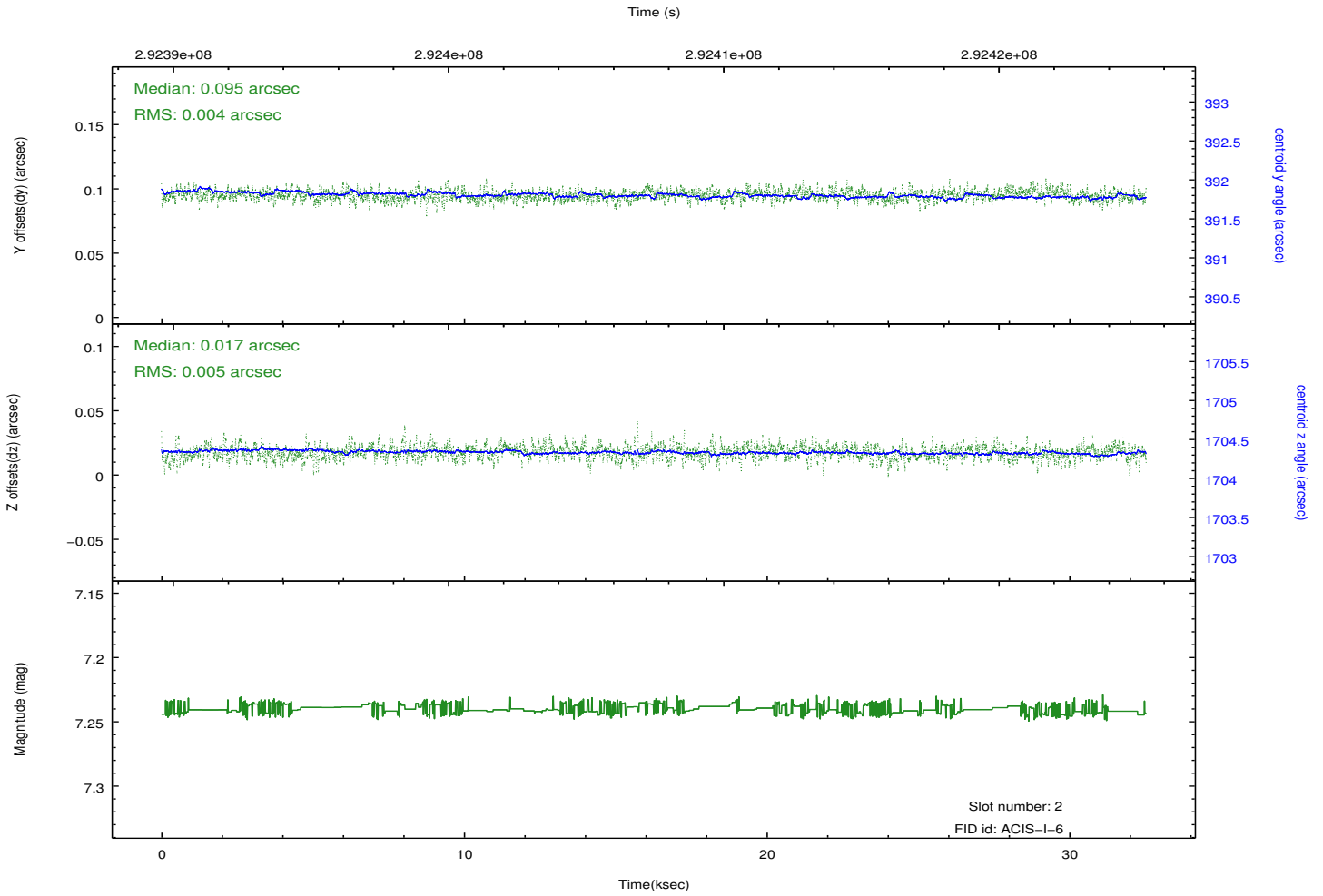
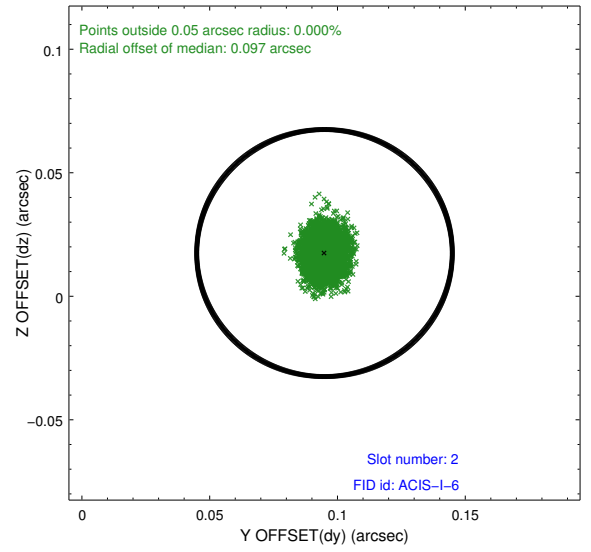
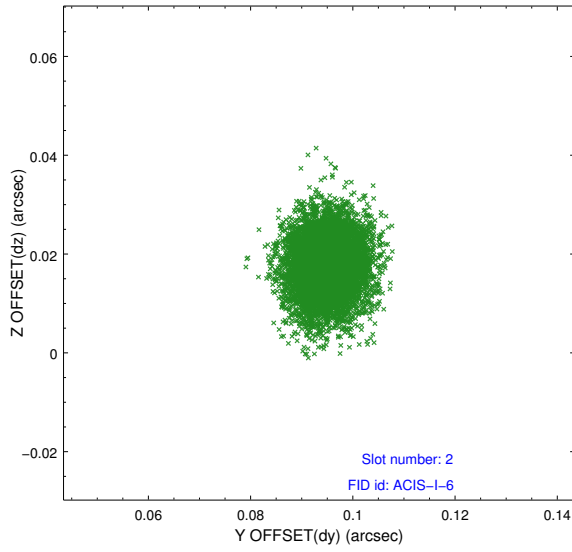
### 2.5.1 Slot 0



## 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)	2012.04.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.0958768

## A.2 Comments

Roll preference met.