

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13924 - L2 Version 1  
Chandra X-Ray Center

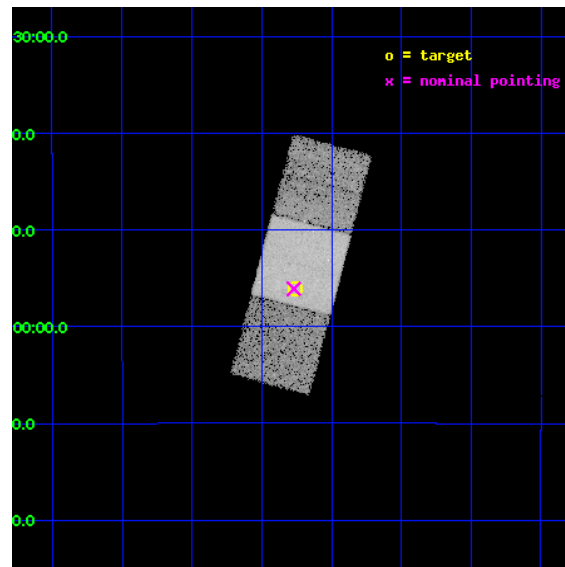
L2 Processing Date : Jan 27 2012

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# 1 Front

seq_num	702648	Sequence number
obs_id	13924	Observation id
title	Dawn of a quasar: the exceptional variability of IRAS 00397-1312	P
observer	Dr Guido Risaliti	Principal investigator
object	IRAS 00397-1312	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.564583	Observer's specified target RA [deg]
dec_targ	-12.934167	Observer's specified target Dec [deg]
ra_nom	10.567535316998	Nominal RA [deg]
dec_nom	-12.935085716227	Nominal Dec [deg]
roll_nom	284.72336069172	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15059.800115824	Sum of GTIs [s]
livetime	14863.032740447	Livetime [s]
ontime6	15059.800115824	Sum of GTIs [s]
ontime7	15059.800115824	Sum of GTIs [s]
ontime8	15056.659155548	Sum of GTIs [s]
l2events	79068	Number of level 2 events

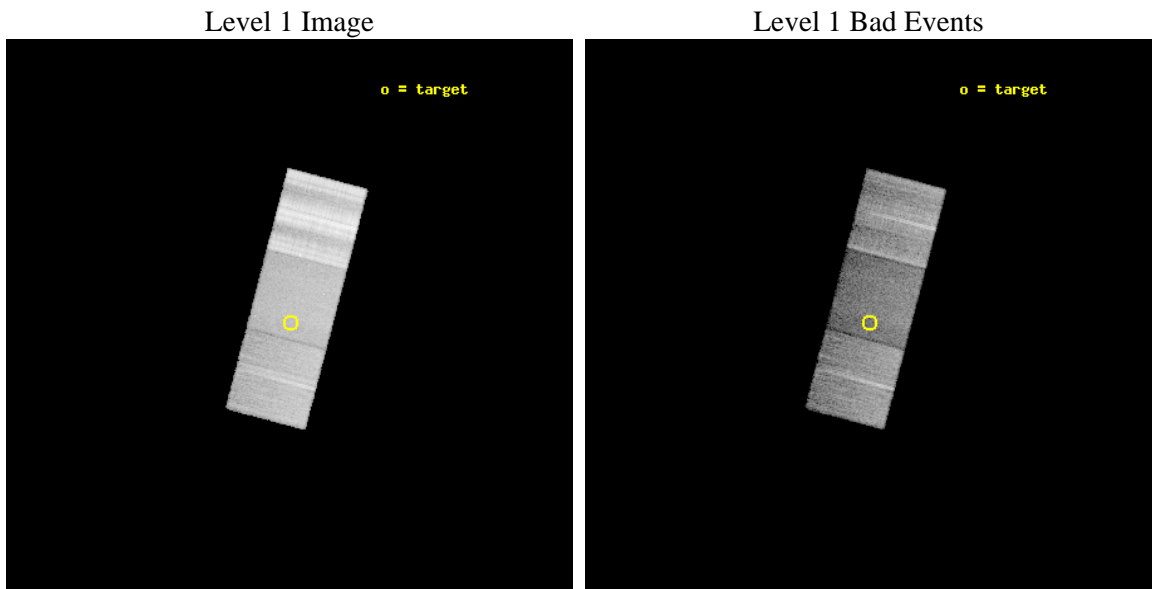




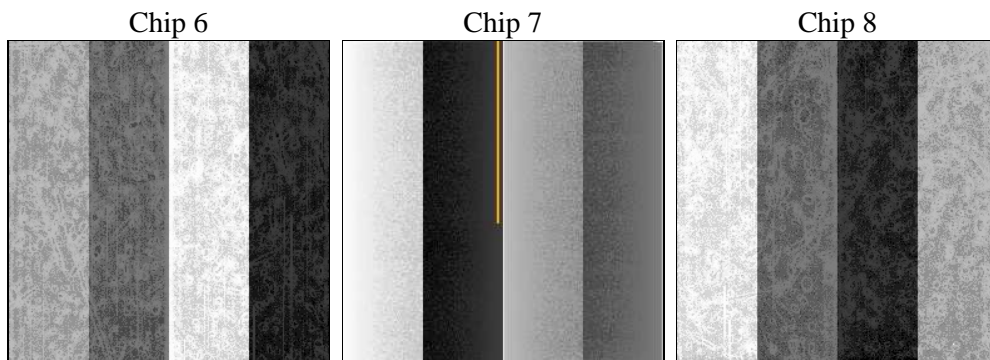
## 2 OBI

### 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	8.4.3	Processing system revision	ontime	15059.800115824	Sum of GTIs [s]
caldsver	4.4.7	&#160	ontime6	15059.800115824	Sum of GTIs [s]
date	2012-01-27T05:10:38	Date and time of file creation	ontime7	15059.800115824	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	15056.659155548	Sum of GTIs [s]
			l1events	520821	Number of level 1 events

### 2.1.4 Events

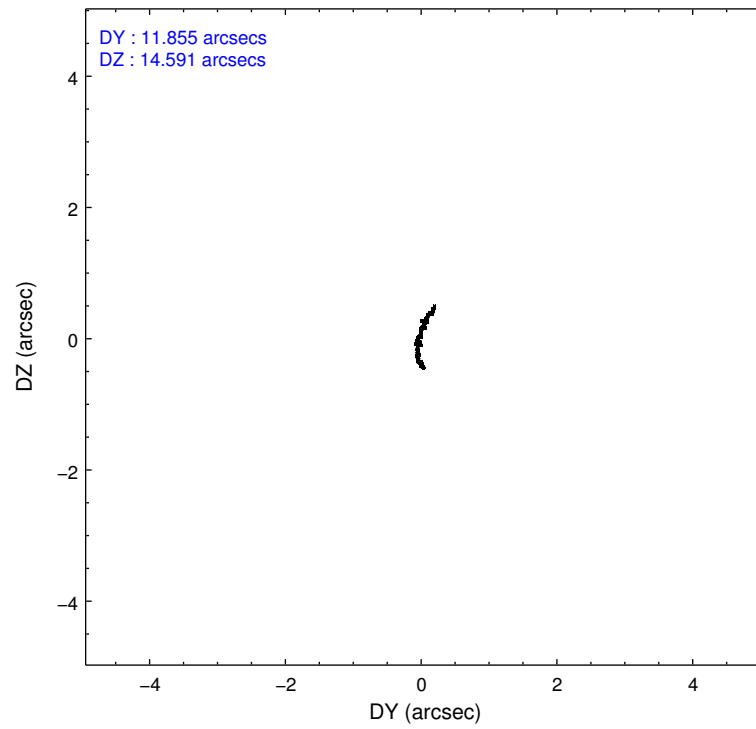
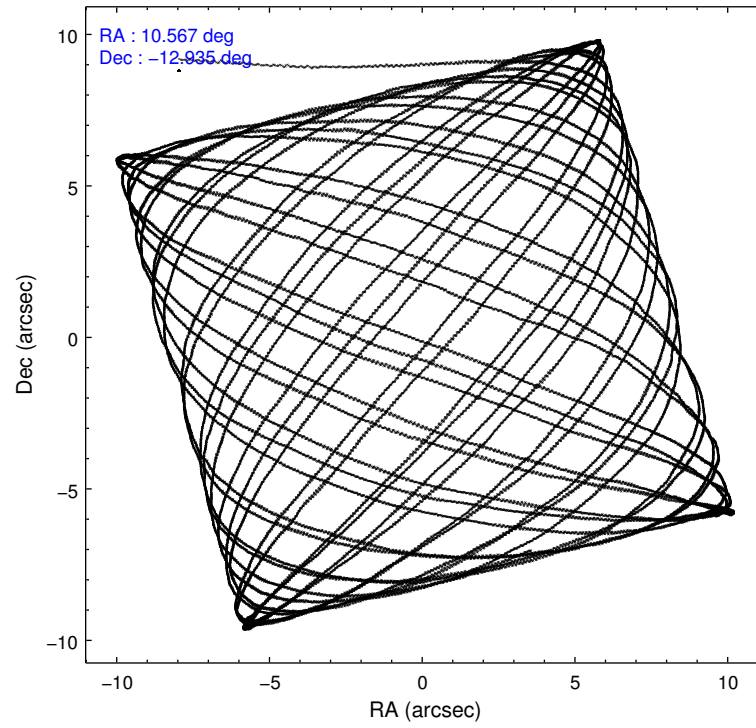
	ccd 6	ccd 7	ccd 8
level 1 events	121240	122352	277229
rejected events	106967	65317	121280
rejected %	88%	53%	43%

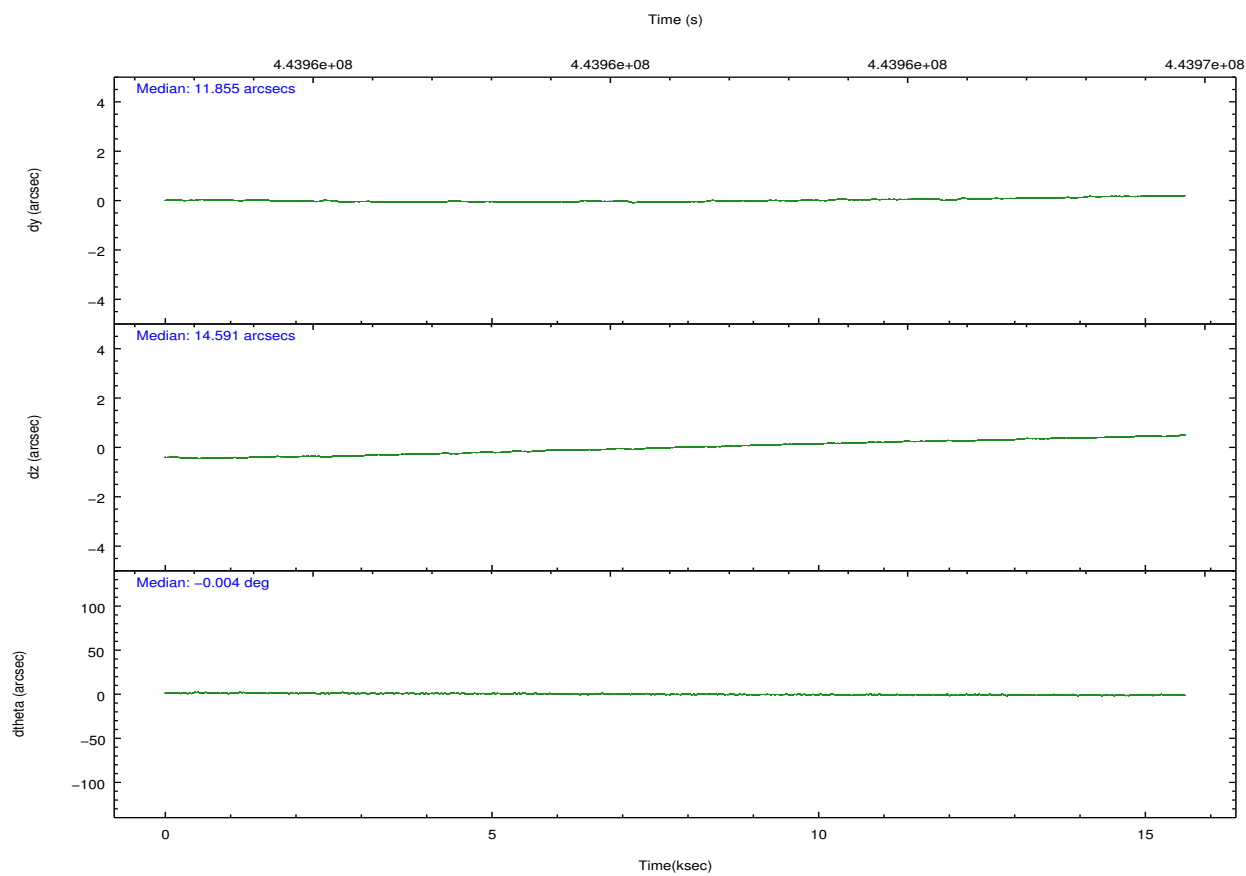
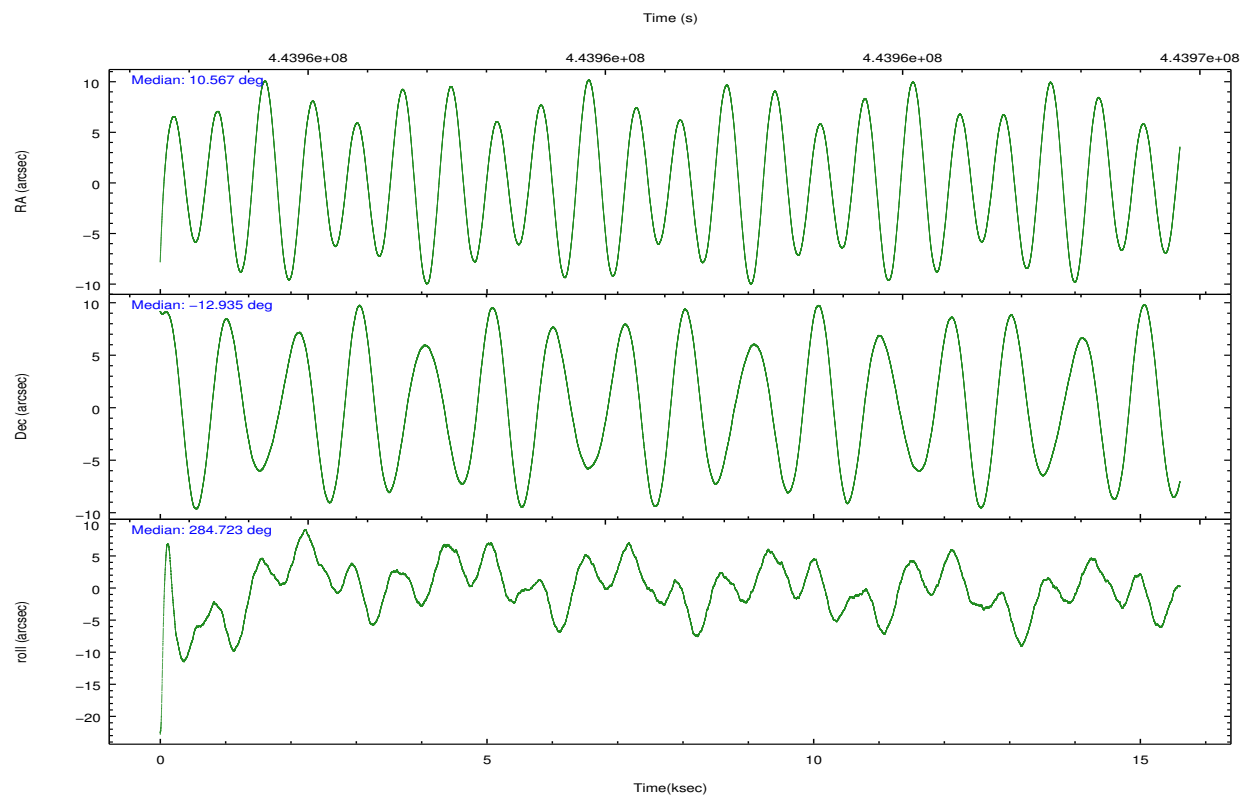
	ccd 6	ccd 7	ccd 8
grade 0 events	5439	5696	44225
	4%	4%	15%
grade 1 events	58	193	406
	0%	0%	0%
grade 2 events	4041	12713	24539
	3%	10%	8%
grade 3 events	1125	5201	26579
	0%	4%	9%
grade 4 events	1100	5151	23673
	0%	4%	8%
grade 5 events	4328	12238	8101
	3%	10%	2%
grade 6 events	2570	28287	36958
	2%	23%	13%
grade 7 events	102579	52873	112748
	84%	43%	40%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	10.547527	10.56753531699786	CCD I2 on	N	N
[deg] Pointing Dec	-12.915928	-12.93508571622682	CCD I3 on	N	N
[deg] Pointing Roll	284.562284	284.723360691723	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	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	O2	Y
[s] Observation start time (MET)	443953886.184000	443952616.29906	CCD S5 on	N	N
Observation start date	2012-01-26T08:30:20	2012-01-26T08:10:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	443968886.184000	443970101.26249	On-chip summing requested	N	N
Observation end date	2012-01-26T12:40:20	2012-01-26T13:01:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



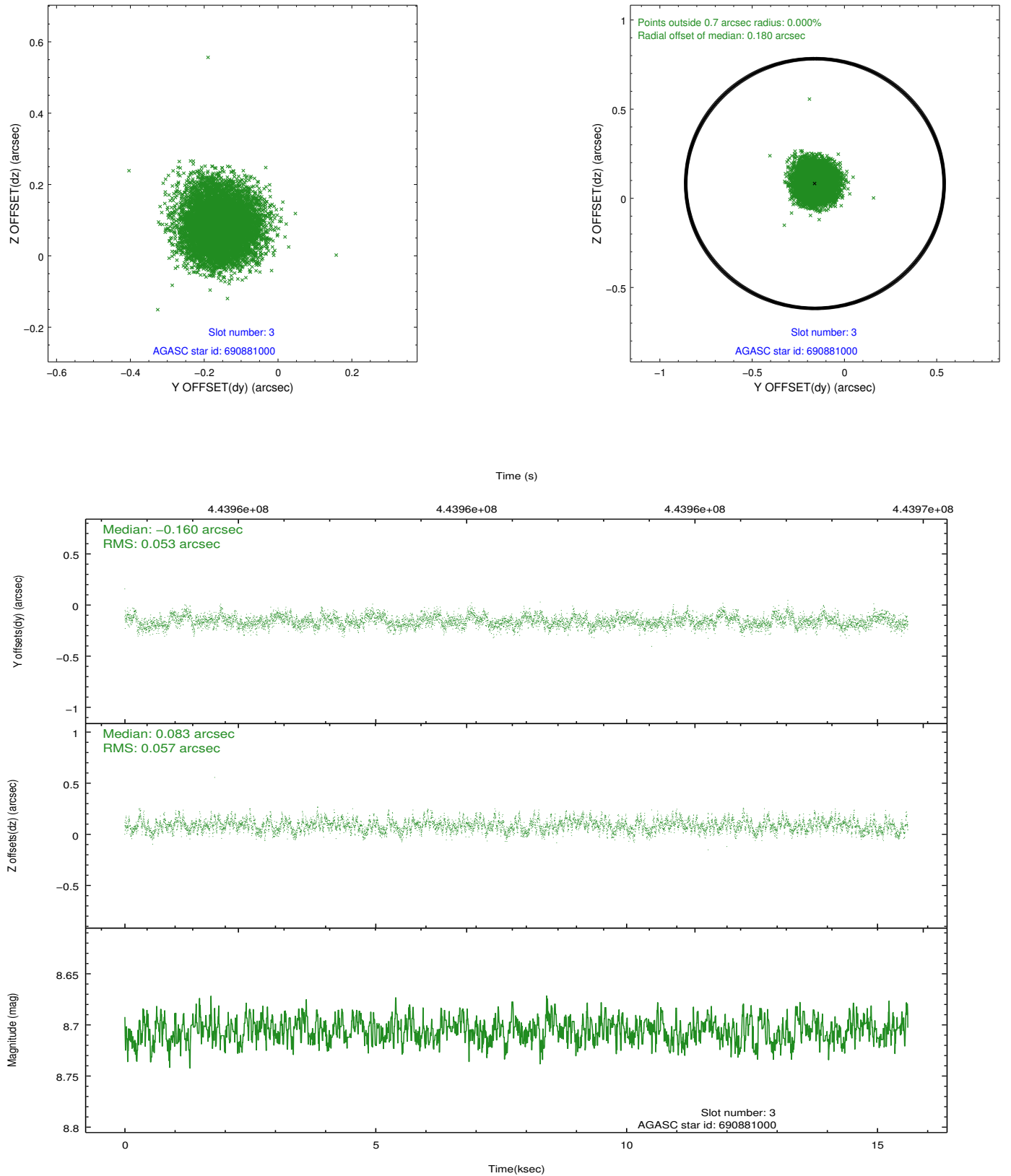


### Slot Statistics

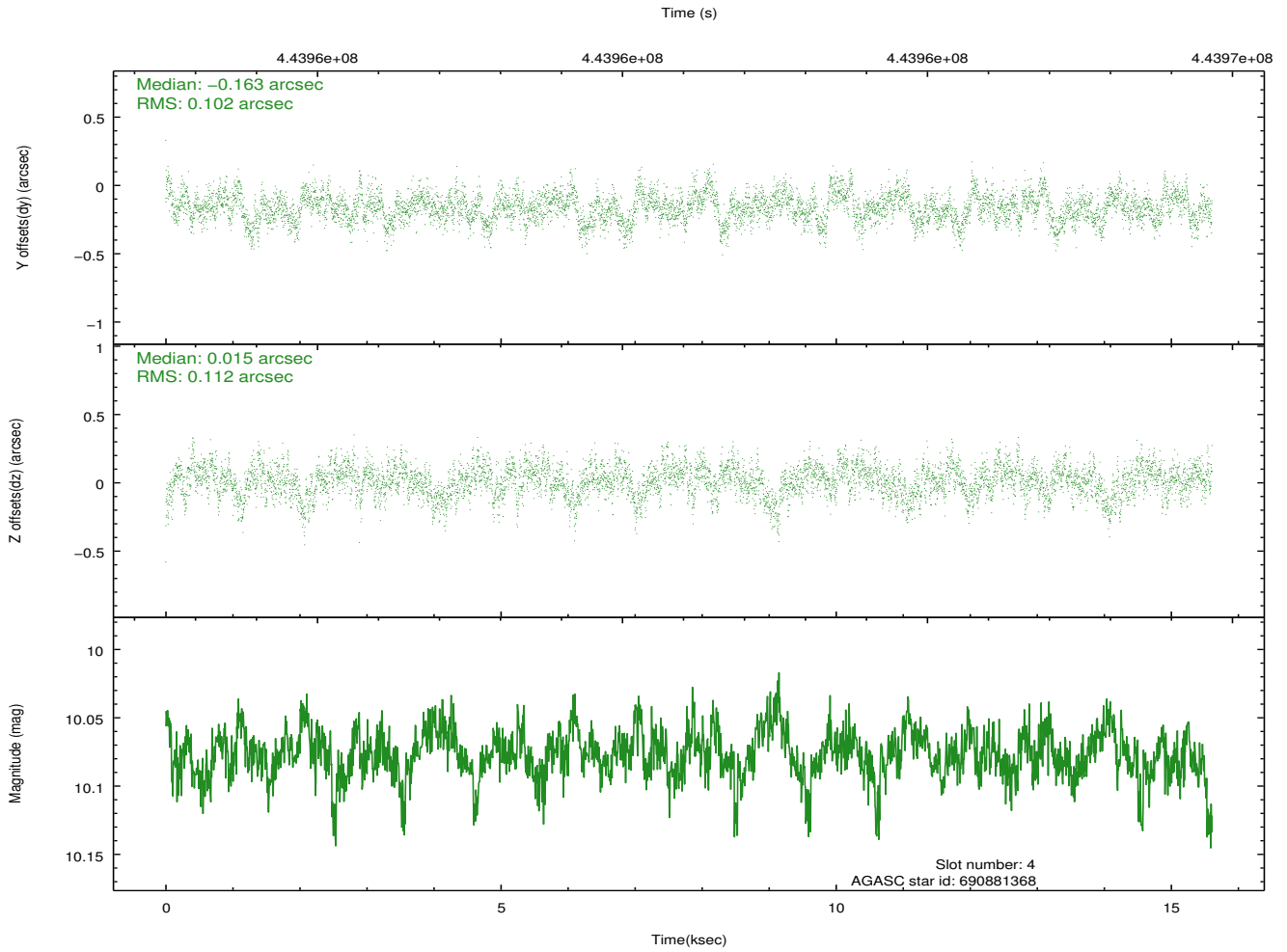
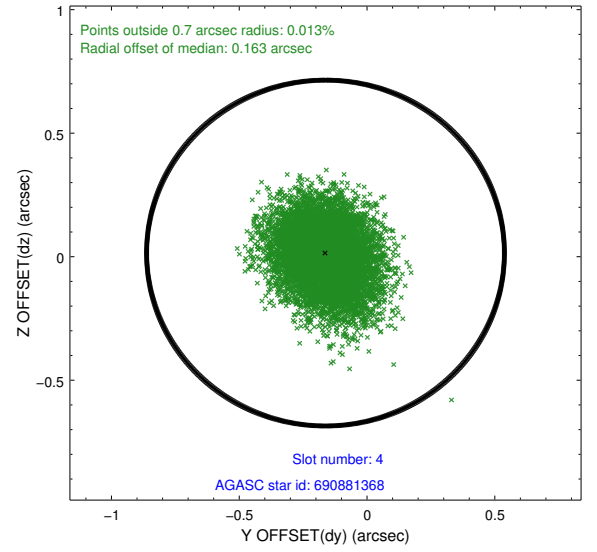
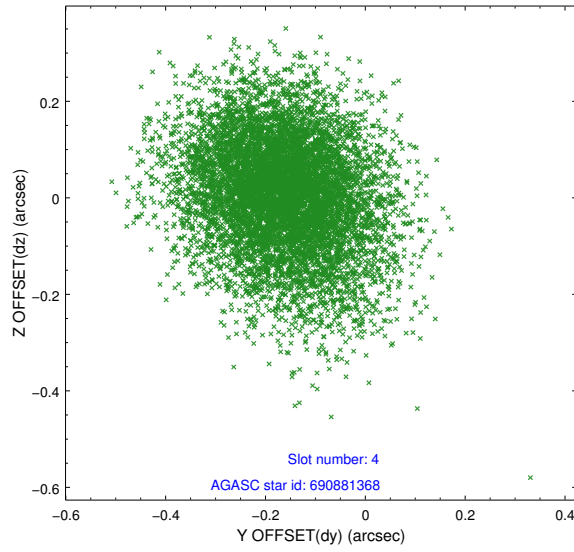
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.83	3807	-0.057	-0.020	0.009	0.015	0.000000	0.000000	-764.81	-1735.98
1	FID	ACIS-S-4	6.92	3807	0.180	0.033	0.006	0.012	0.000000	0.000000	2148.57	172.27
2	FID	ACIS-S-5	6.95	3807	-0.154	-0.004	0.009	0.014	0.000000	0.000000	-1817.39	166.22
3	GUIDE	690881000	8.71	7612	-0.160	0.083	0.084	0.132	10.369276	-12.690399	-942.68	-401.31
4	GUIDE	690881368	10.08	7613	-0.163	0.015	0.161	0.266	9.809999	-12.524983	-2009.83	-2155.61
5	GUIDE	690881632	7.72	7611	-0.105	0.059	0.073	0.114	11.115356	-13.415818	2244.66	1472.39
6	GUIDE	690894896	8.26	7613	-0.190	-0.114	0.078	0.125	9.984413	-13.079708	77.03	-2059.81
7	GUIDE	690890208	9.74	7606	0.616	-0.040	0.155	0.267	10.395645	-13.653111	2436.35	-1181.69

## 2.4 Star Slots

### 2.4.1 Slot 3

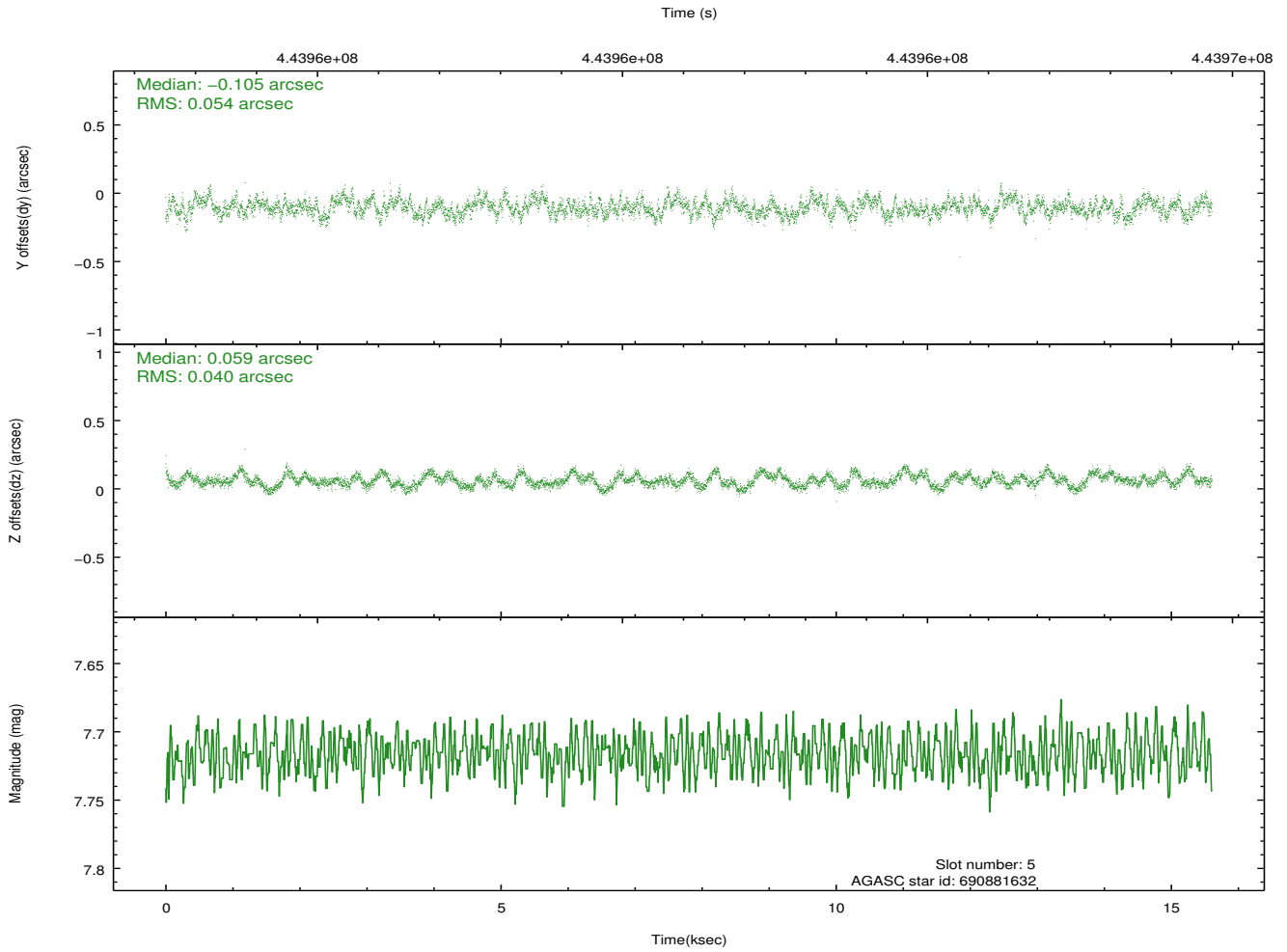
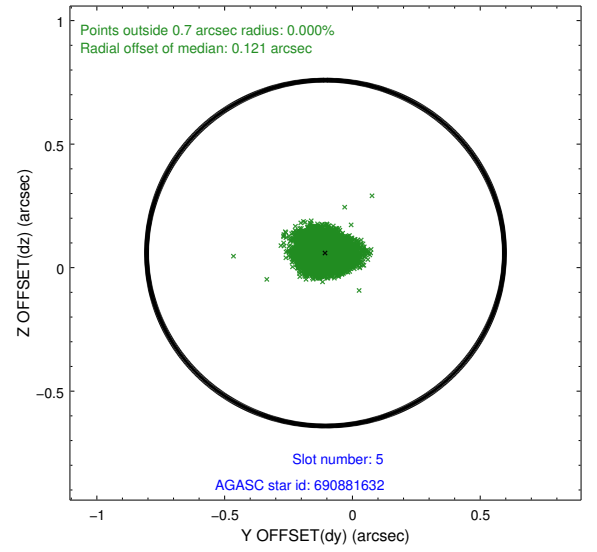
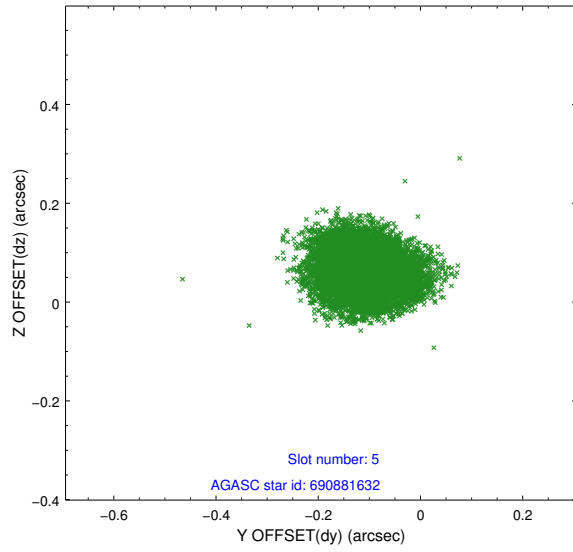


## 2.4.2 Slot 4

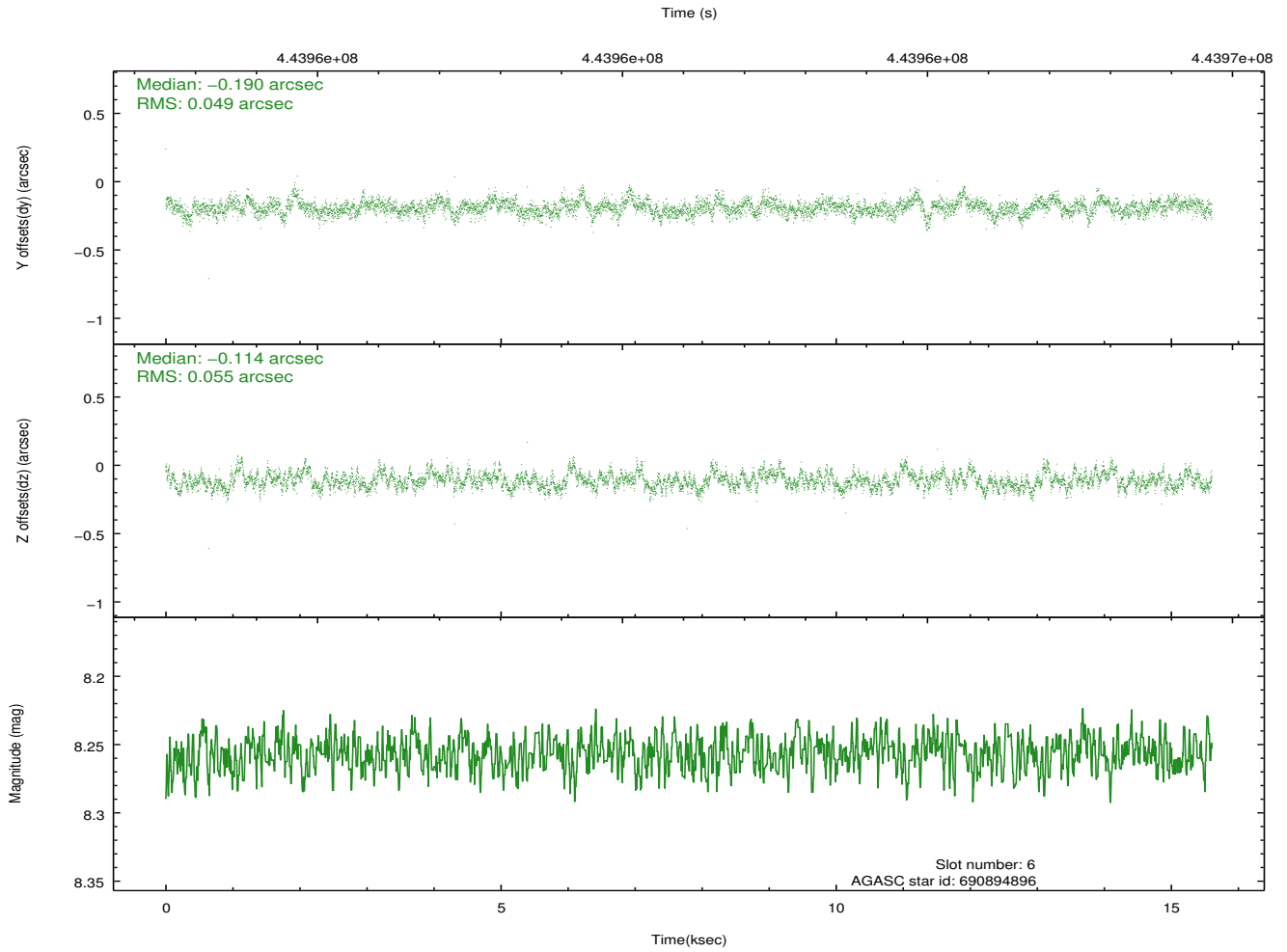
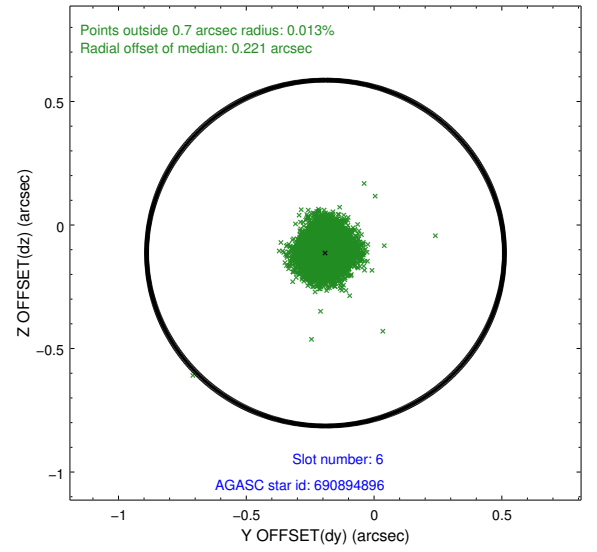
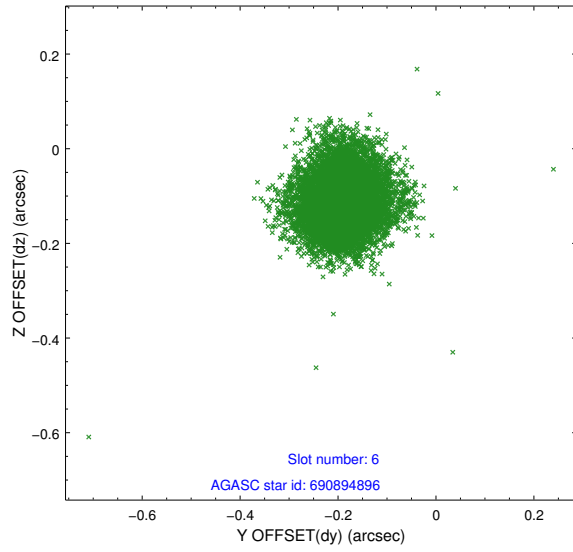




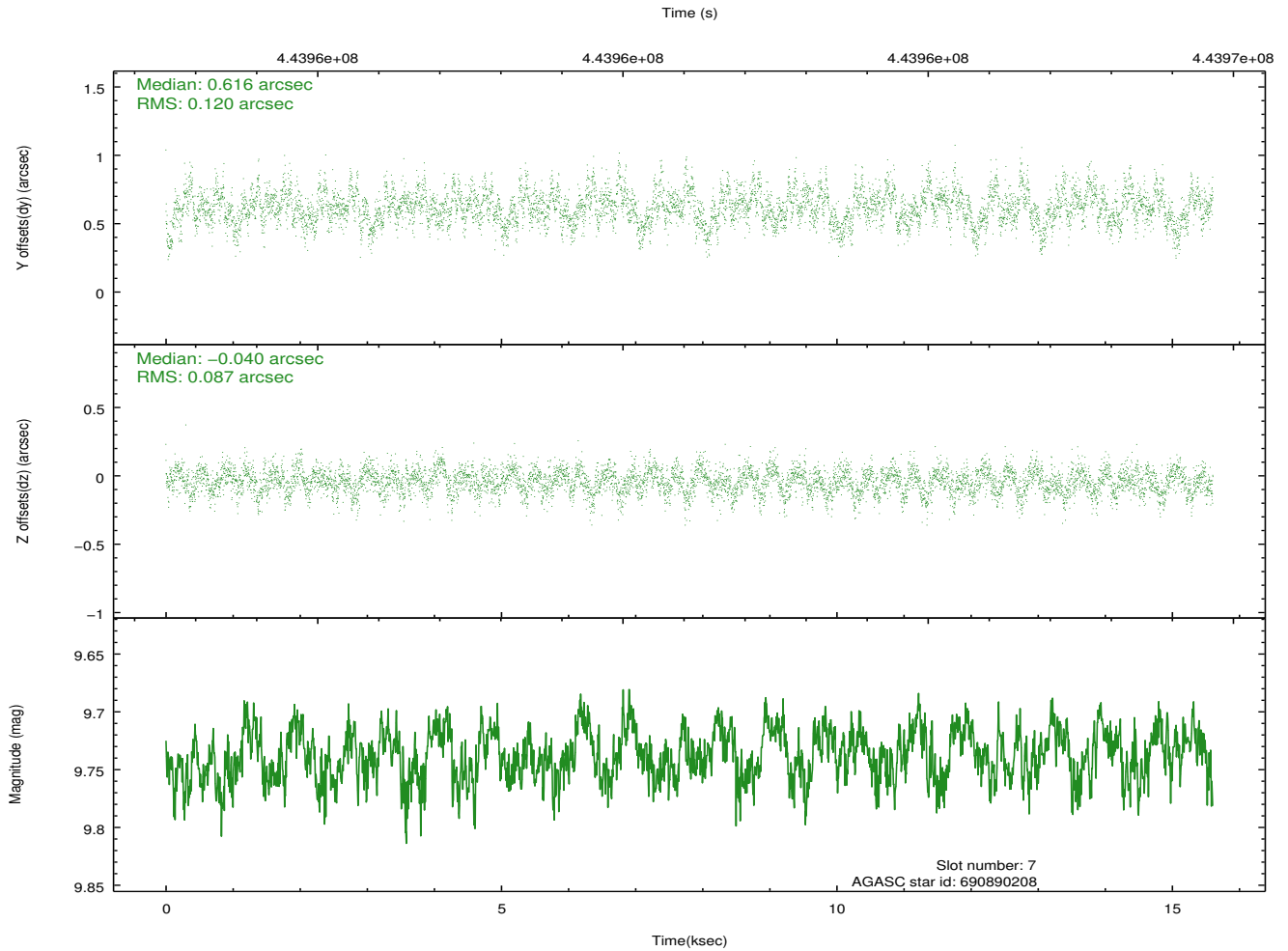
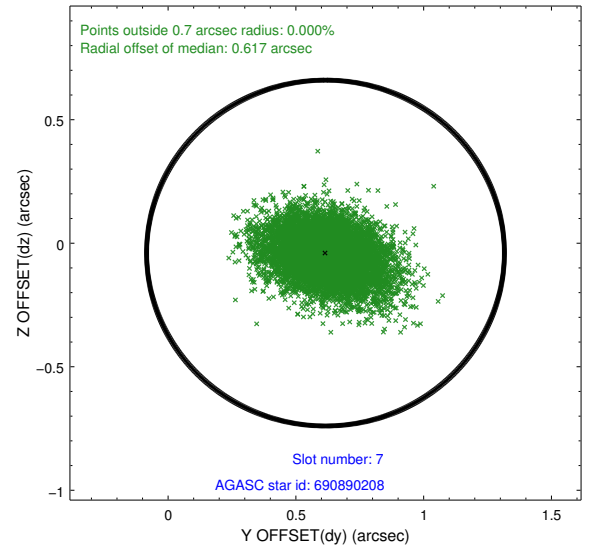
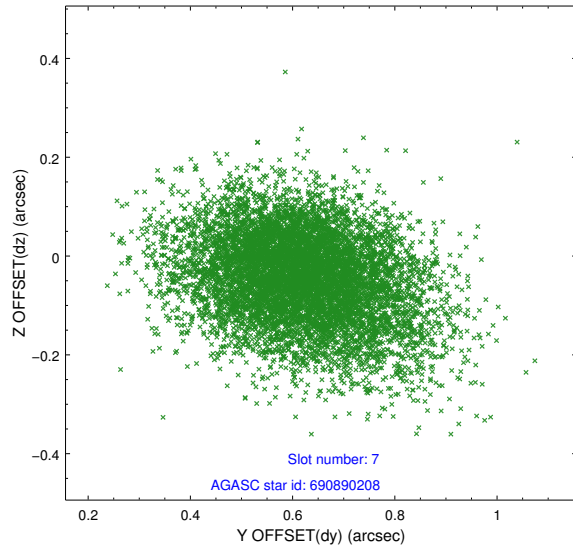
### 2.4.3 Slot 5



## 2.4.4 Slot 6

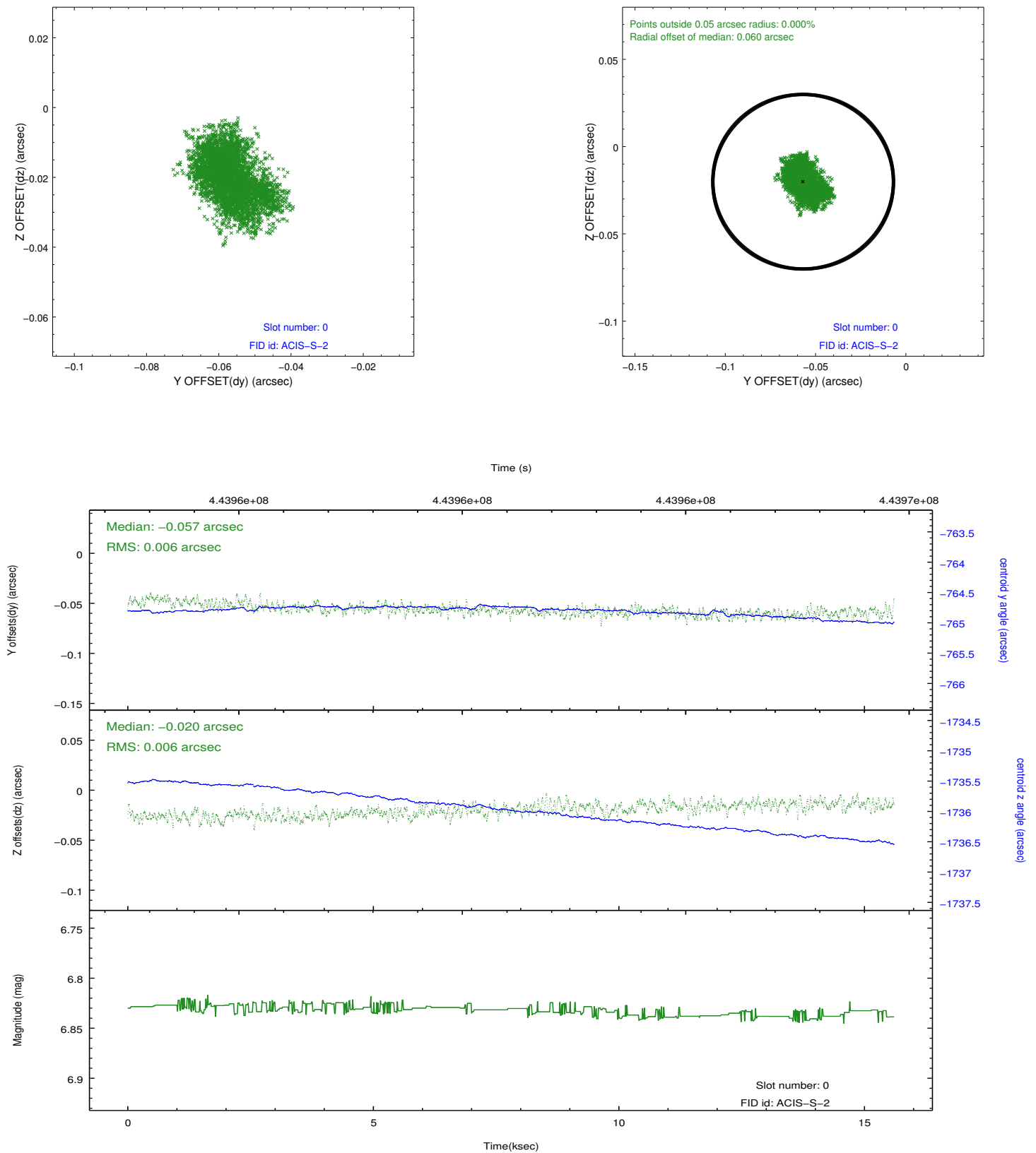


## 2.4.5 Slot 7

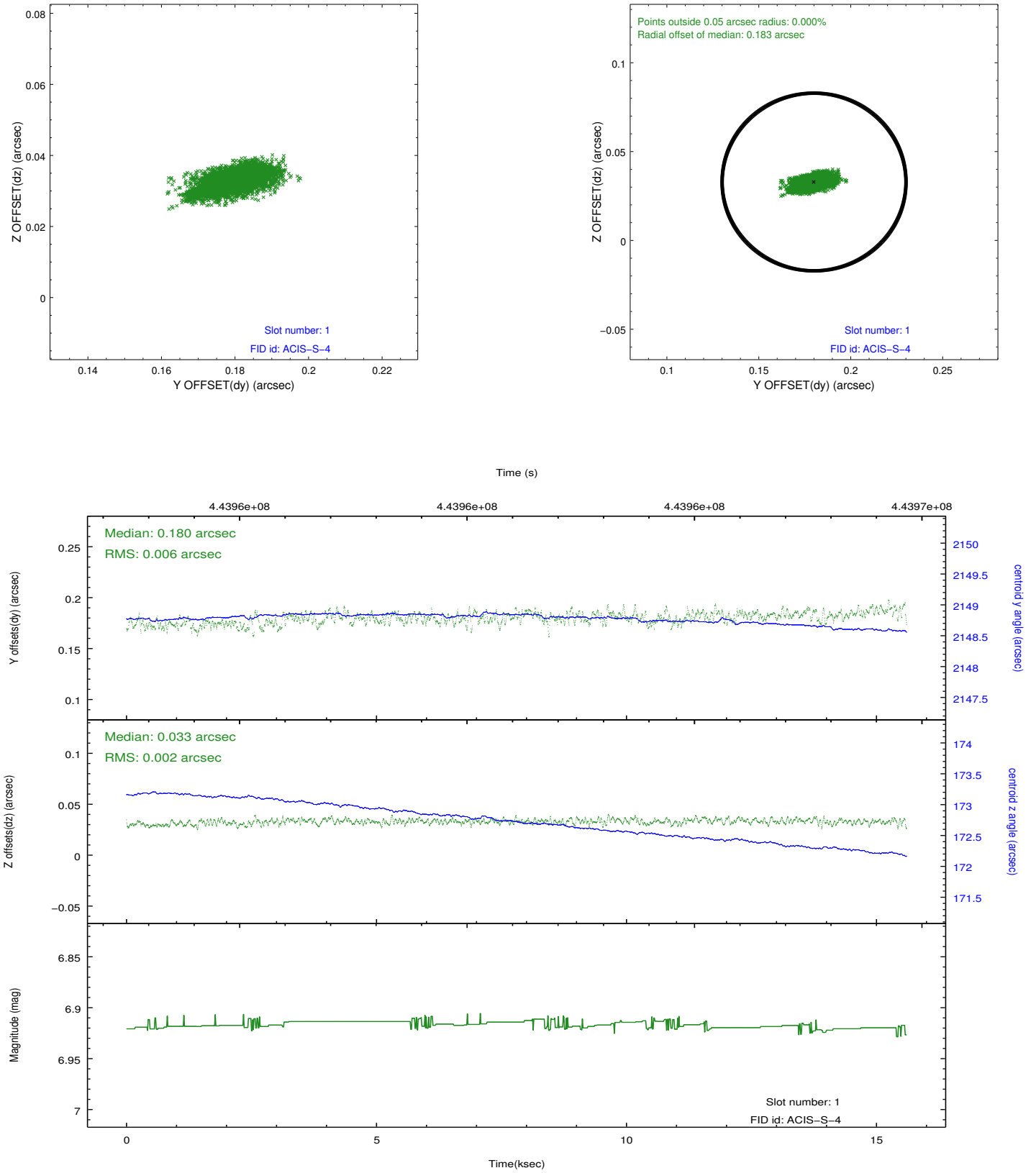


## 2.5 FID Slots

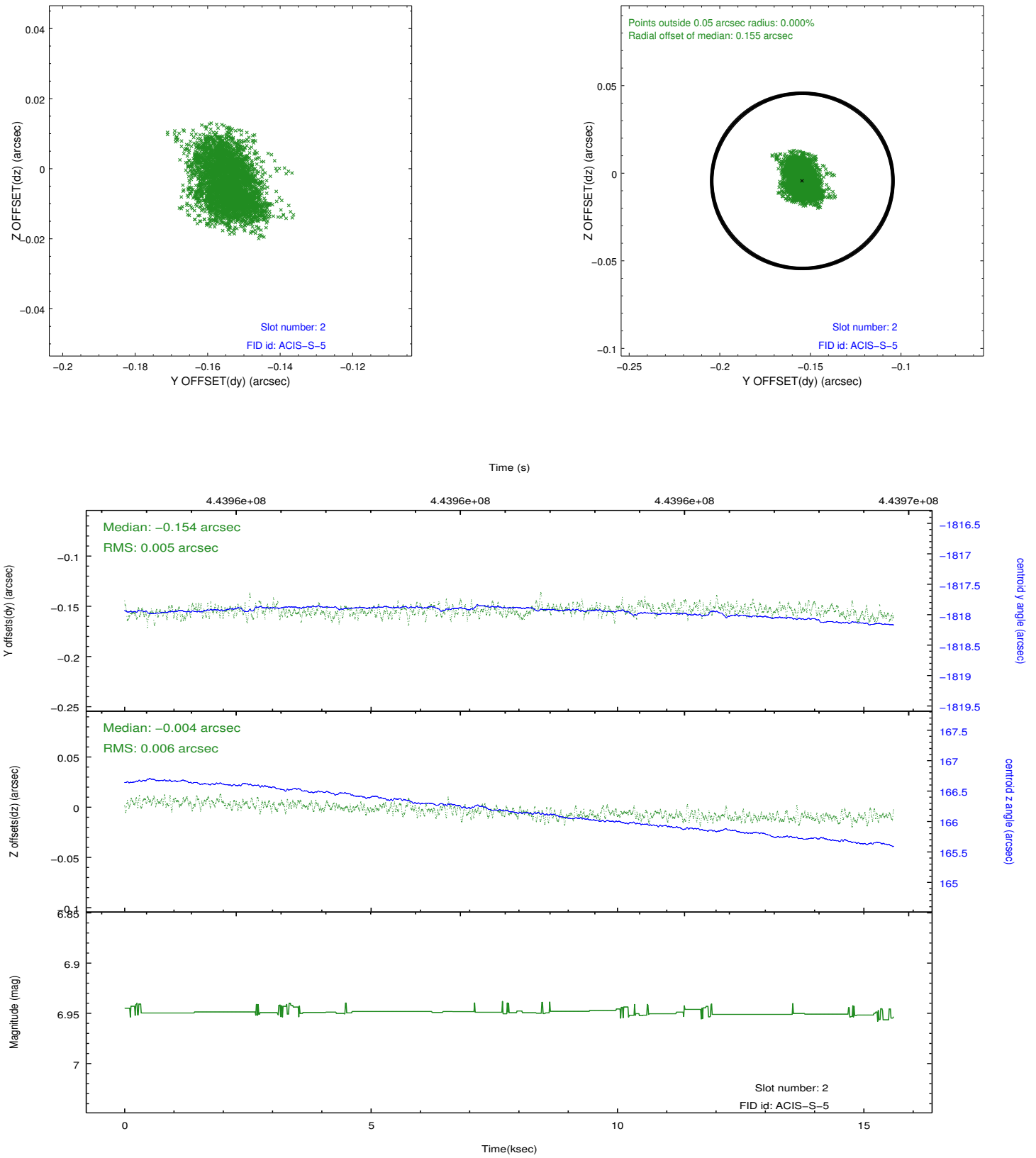
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.01.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.059800115824

### A.2 Comments

Monitor constraint met, follows obsid 13923 by 71 days.