

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13980 - L2 Version 1  
Chandra X-Ray Center

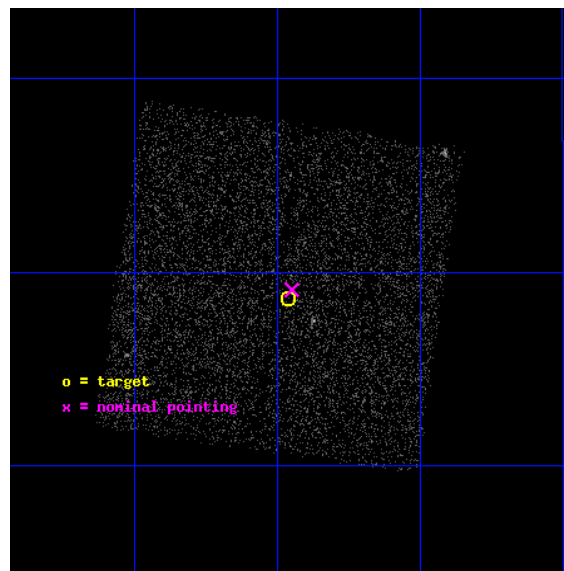
L2 Processing Date : Mar 22 2012

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# 1 Front

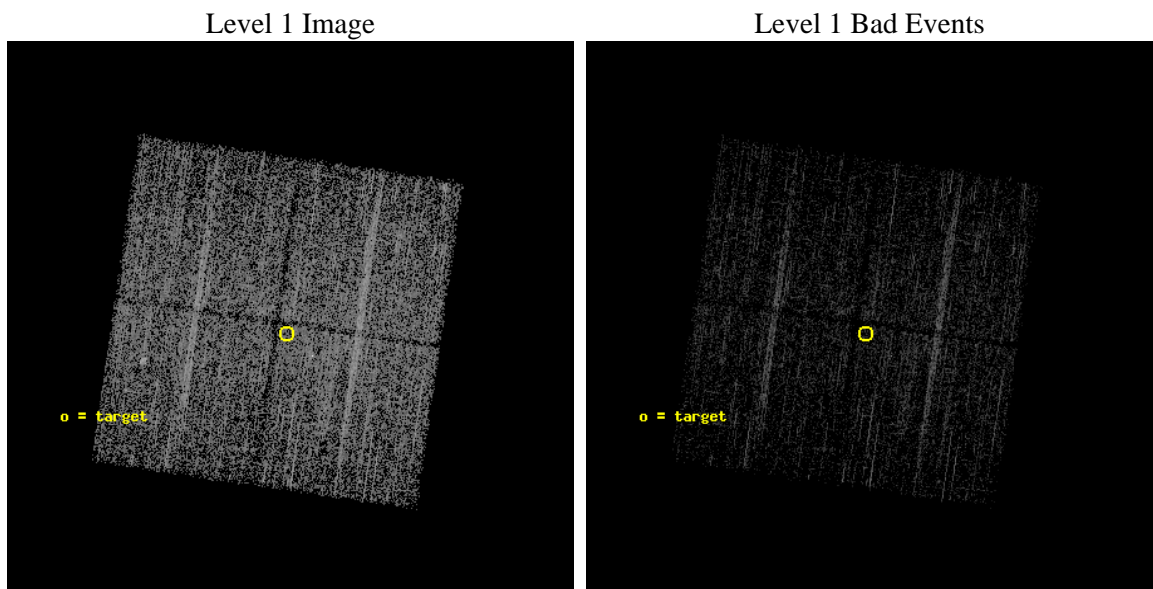
seq_num	702701	Sequence number
obs_id	13980	Observation id
title	Chandra observations of the faintest hard X-ray sources in the SIX survey	Proposal title
observer	Dr Eugenio Bottacini	Principal investigator
object	six-7	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	218.490833	Observer's specified target RA [deg]
dec_targ	5.4775	Observer's specified target Dec [deg]
ra_nom	218.48733980074	Nominal RA [deg]
dec_nom	5.4847645414027	Nominal Dec [deg]
roll_nom	98.287637051779	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5087.0724818707	Sum of GTIs [s]
livetime	5020.6061348467	Livetime [s]
ontime0	5086.9493618608	Sum of GTIs [s]
ontime1	5086.9904018641	Sum of GTIs [s]
ontime2	5087.0314418674	Sum of GTIs [s]
ontime3	5087.0724818707	Sum of GTIs [s]
l2events	11442	Number of level 2 events



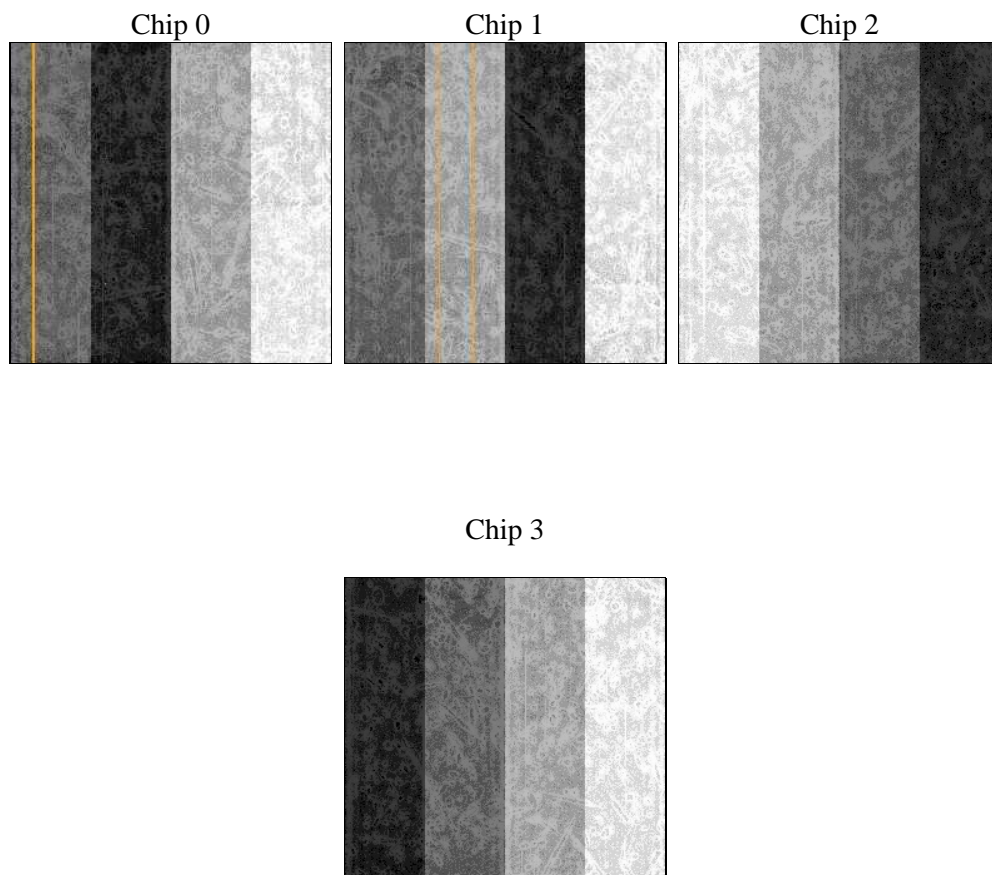
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	5087.0724818707	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	5086.9493618608	Sum of GTIs [s]
date	2012-03-22T13:09:26	Date and time of file creation	ontime1	5086.9904018641	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5087.0314418674	Sum of GTIs [s]
			ontime3	5087.0724818707	Sum of GTIs [s]
			l1events	109767	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	25978	26038	29442	28309
rejected events	22604	22403	26144	24930
rejected %	87%	86%	88%	88%

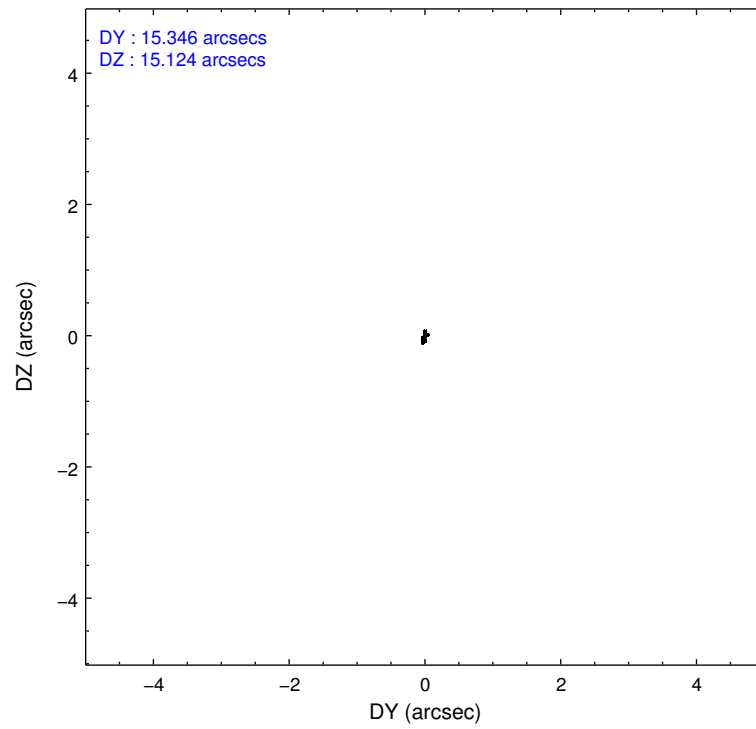
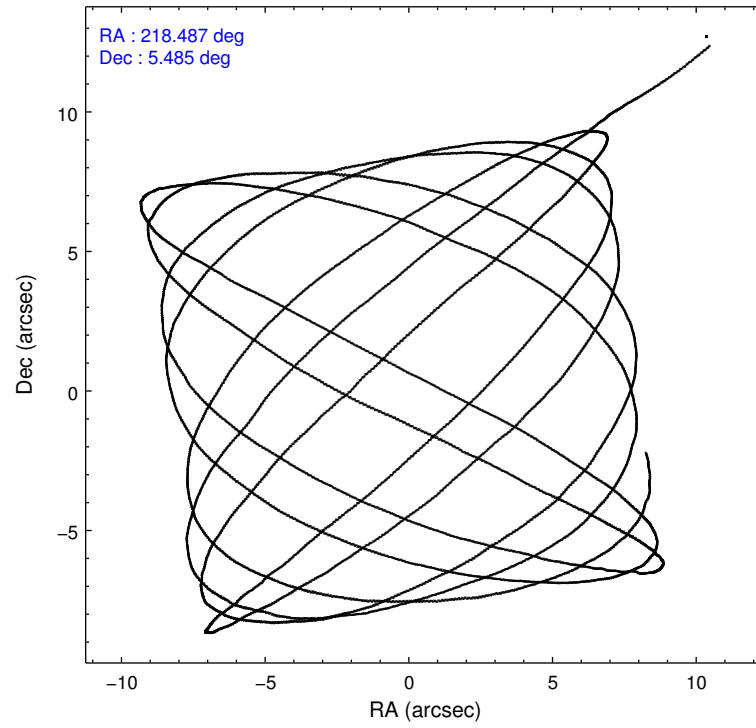
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1154	1371	1259	1308
	4%	5%	4%	4%
grade 1 events	15	13	21	20
	0%	0%	0%	0%
grade 2 events	796	855	745	688
	3%	3%	2%	2%
grade 3 events	378	338	354	364
	1%	1%	1%	1%
grade 4 events	316	326	358	338
	1%	1%	1%	1%
grade 5 events	1238	1293	1210	1427
	4%	4%	4%	5%
grade 6 events	732	746	586	682
	2%	2%	1%	2%
grade 7 events	21349	21096	24909	23482
	82%	81%	84%	82%

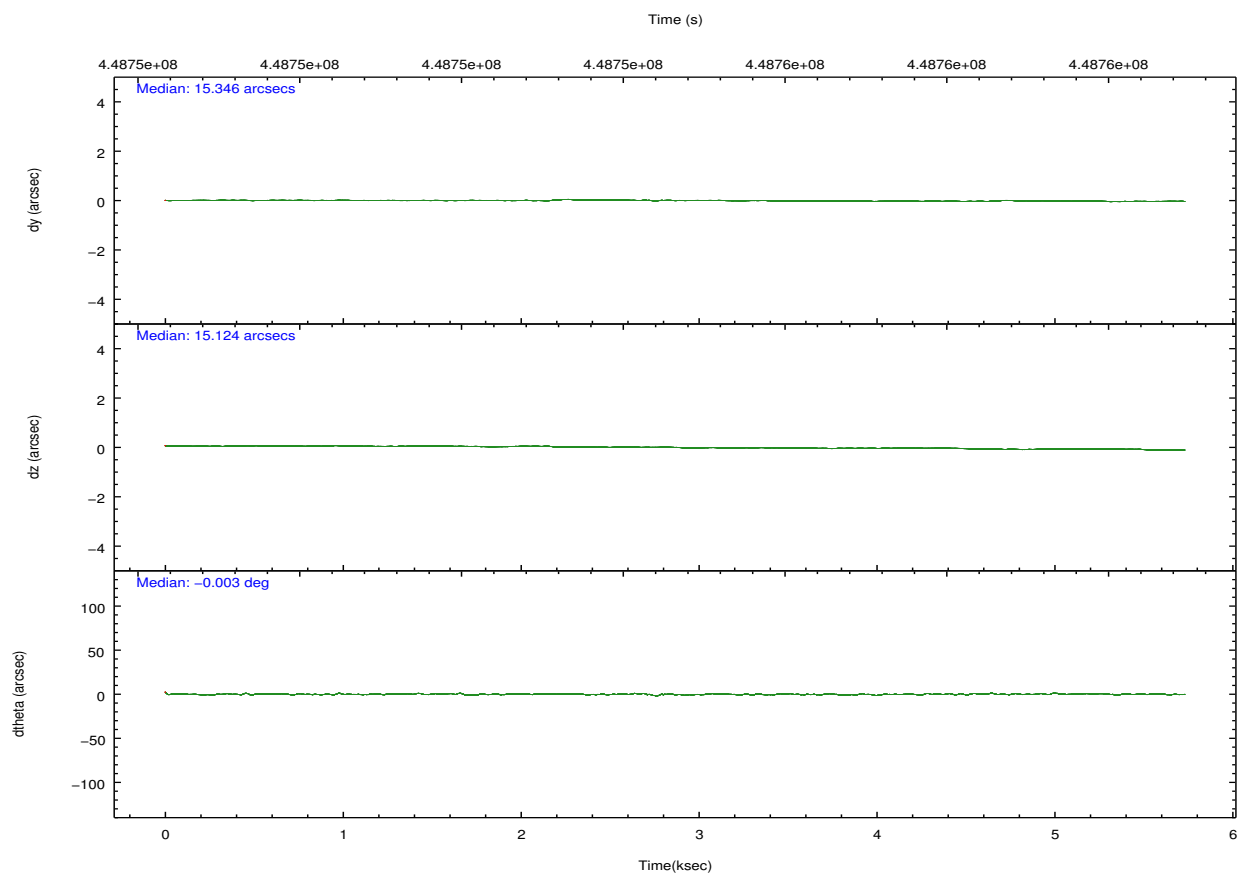
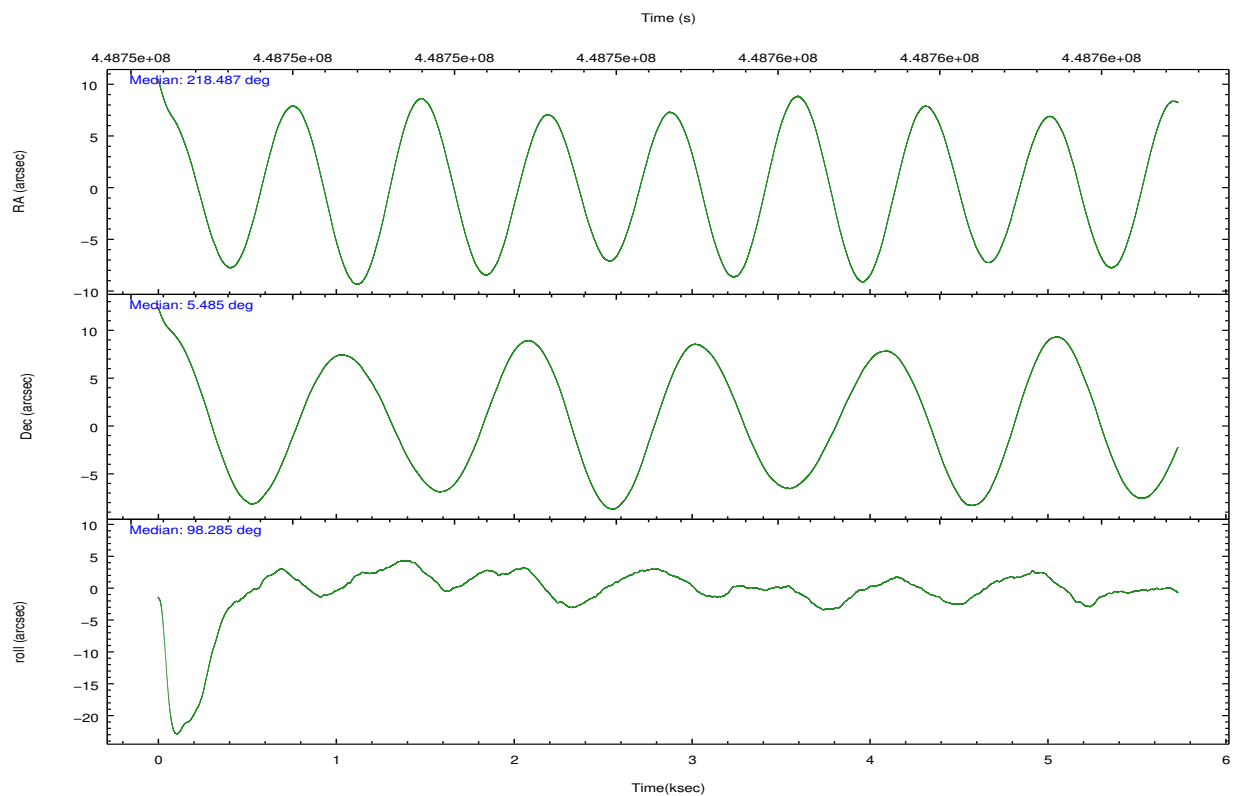


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	218.504535	218.4873398007378	Subarray requested	NONE	NONE
[deg] Pointing Dec	5.463275	5.484764541402683	Alternating exposures requested	N	N
[deg] Pointing Roll	98.077247	98.28763705177894	[s] Primary exposure time	0.000000	3.1
[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)	448752186.184000	448750058.32813			
Observation start date	2012-03-21T21:22:00	2012-03-21T20:47:38			
[s] Observation end time (MET)	448757186.184000	448757909.82855			
Observation end date	2012-03-21T22:45:20	2012-03-21T22:58:29			
Read mode	TIMED	TIMED			

## 2.3 Aspect



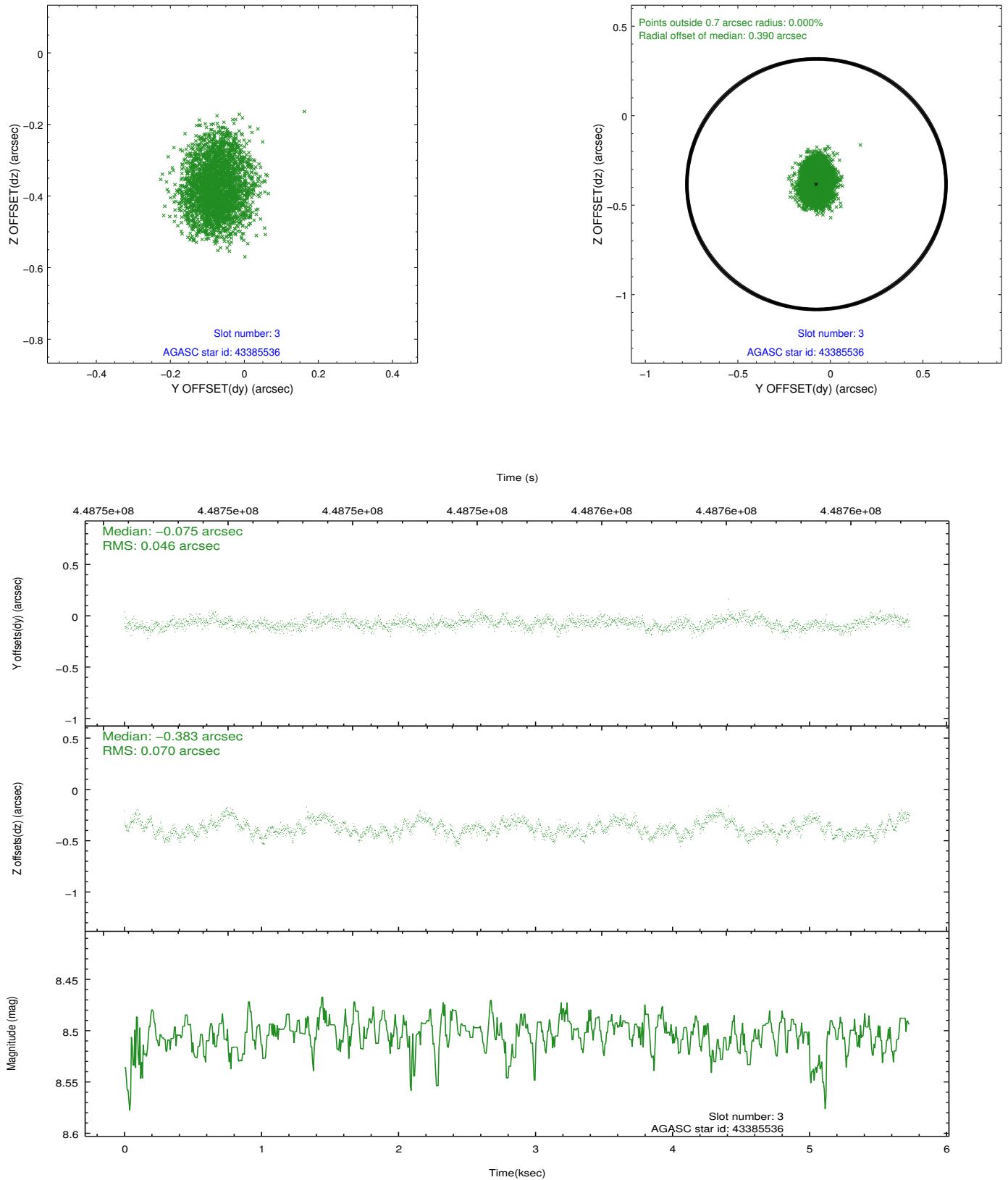


### Slot Statistics

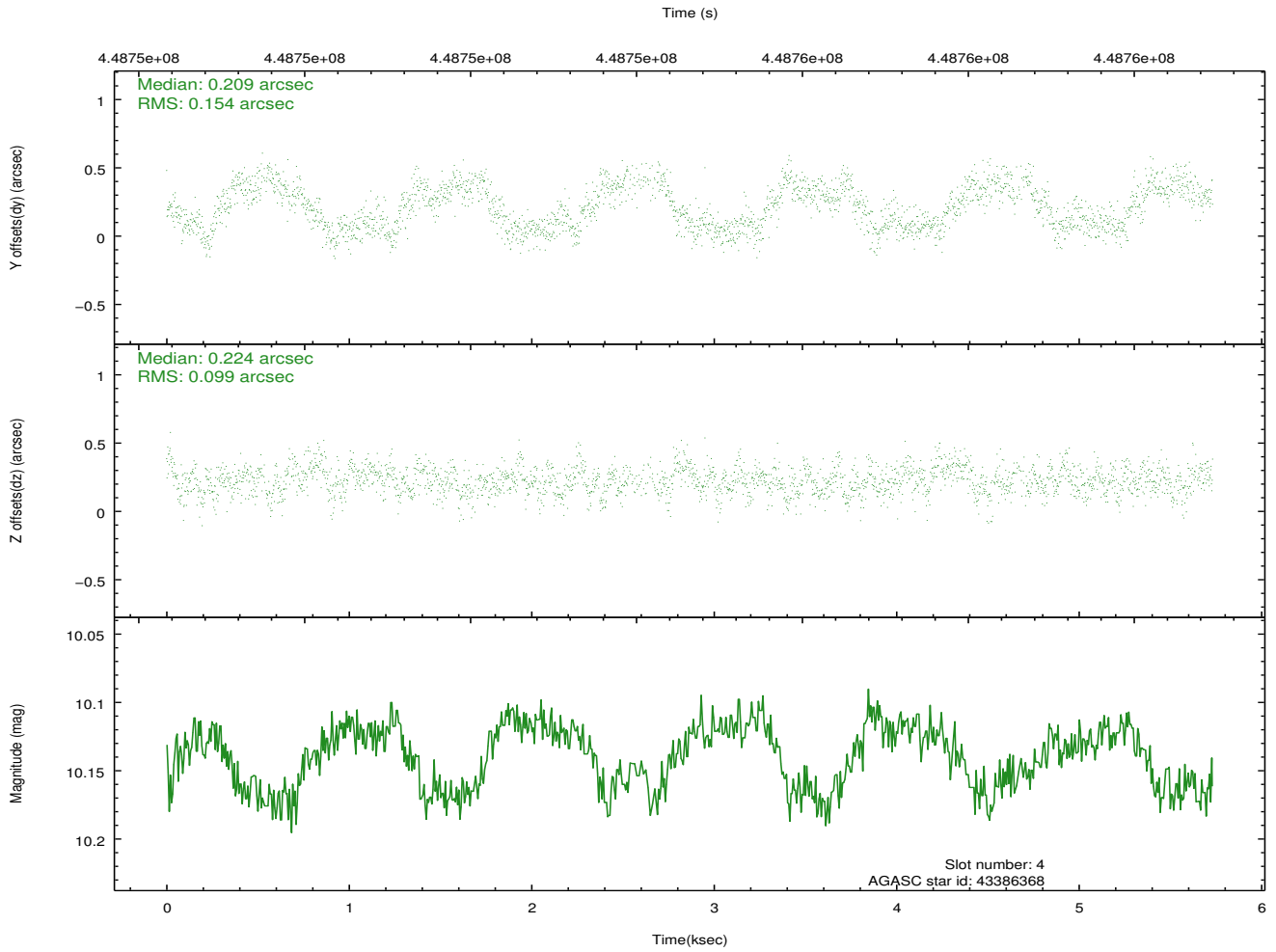
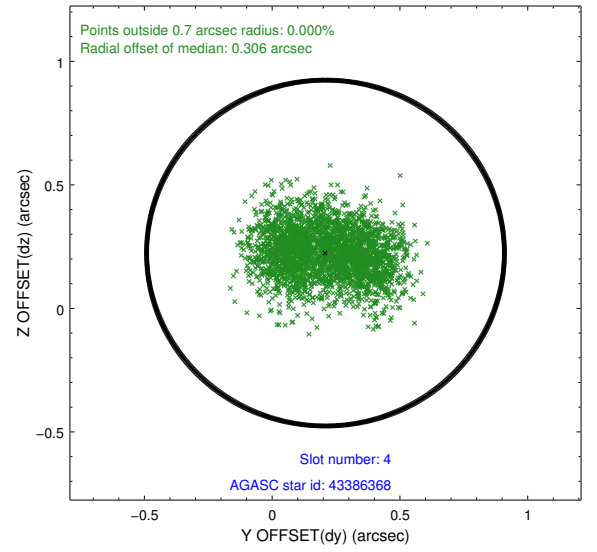
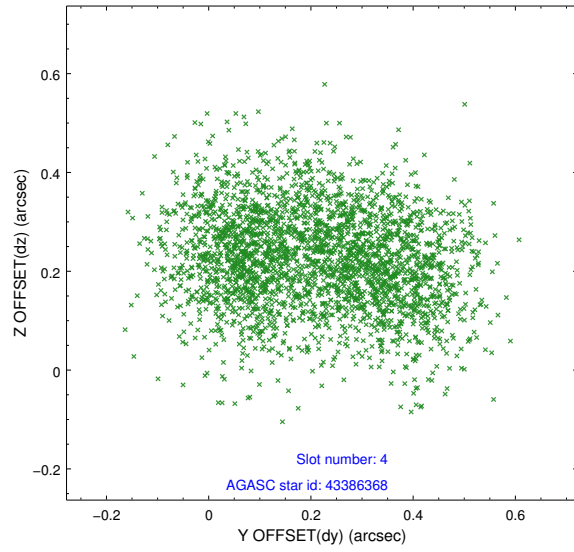
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.09	1399	0.037	-0.005	0.007	0.011	0.000000	0.000000	924.16	-838.72
1	FID	ACIS-I-5	7.08	1399	-0.224	0.038	0.006	0.010	0.000000	0.000000	-1823.66	1058.26
2	FID	ACIS-I-6	7.08	1399	0.096	0.036	0.007	0.011	0.000000	0.000000	388.60	1703.97
3	GUIDE	43385536	8.50	2796	-0.075	-0.383	0.090	0.144	218.399407	5.823113	1335.98	190.56
4	GUIDE	43386368	10.14	2713	0.209	0.224	0.199	0.306	218.756805	5.012207	-1733.66	-666.63
5	GUIDE	43387248	9.09	2794	0.245	0.212	0.116	0.184	218.877208	5.050430	-1659.45	-1114.70
6	GUIDE	43390528	10.02	2794	-0.307	-0.245	0.308	0.414	217.847689	5.742966	1325.56	2188.04
7	GUIDE	43397360	8.77	2793	-0.040	0.217	0.118	0.175	218.706141	6.119024	2237.07	-1045.05

## 2.4 Star Slots

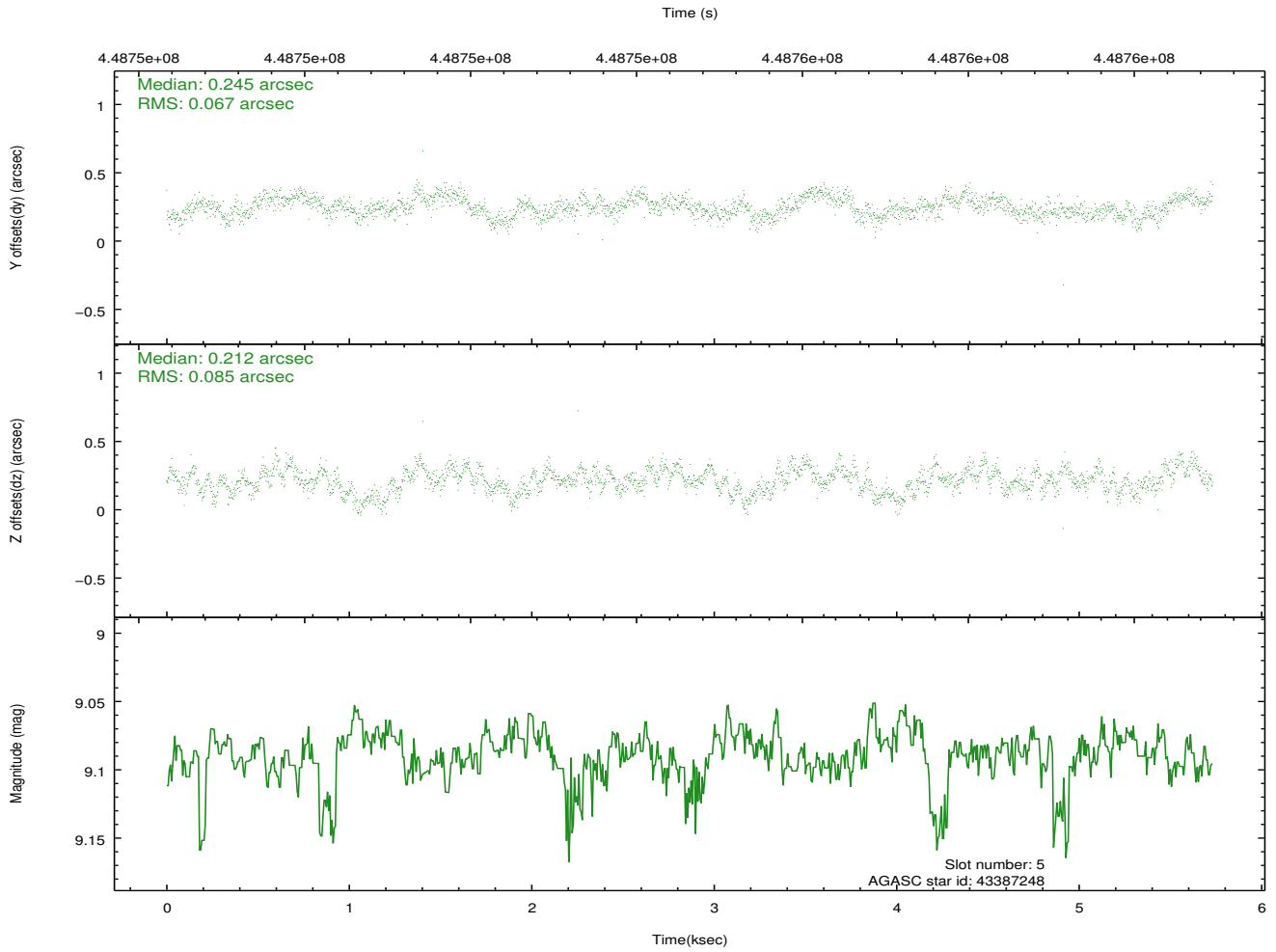
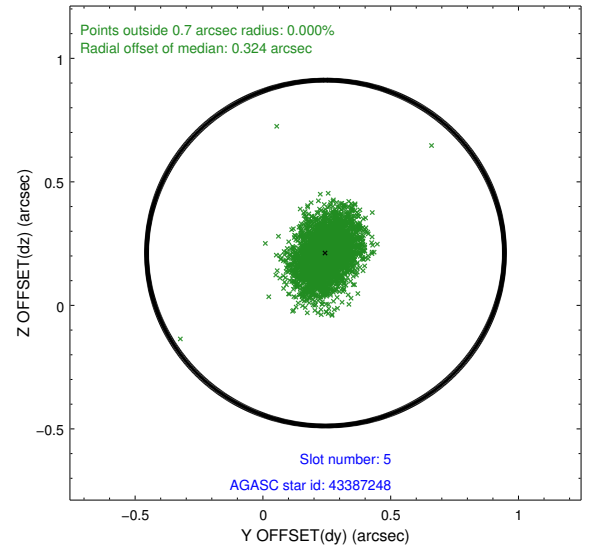
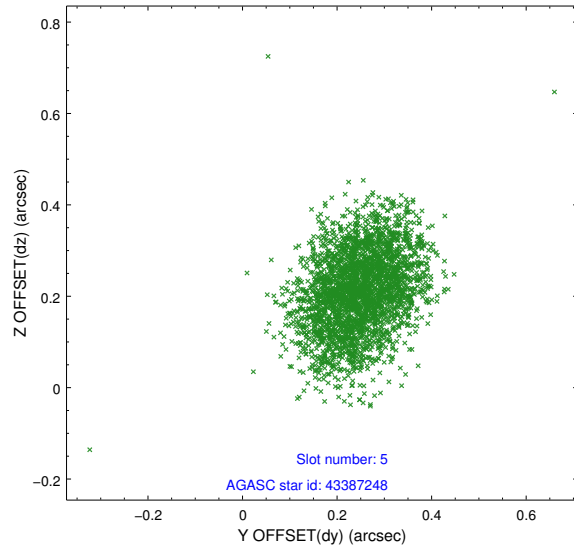
### 2.4.1 Slot 3



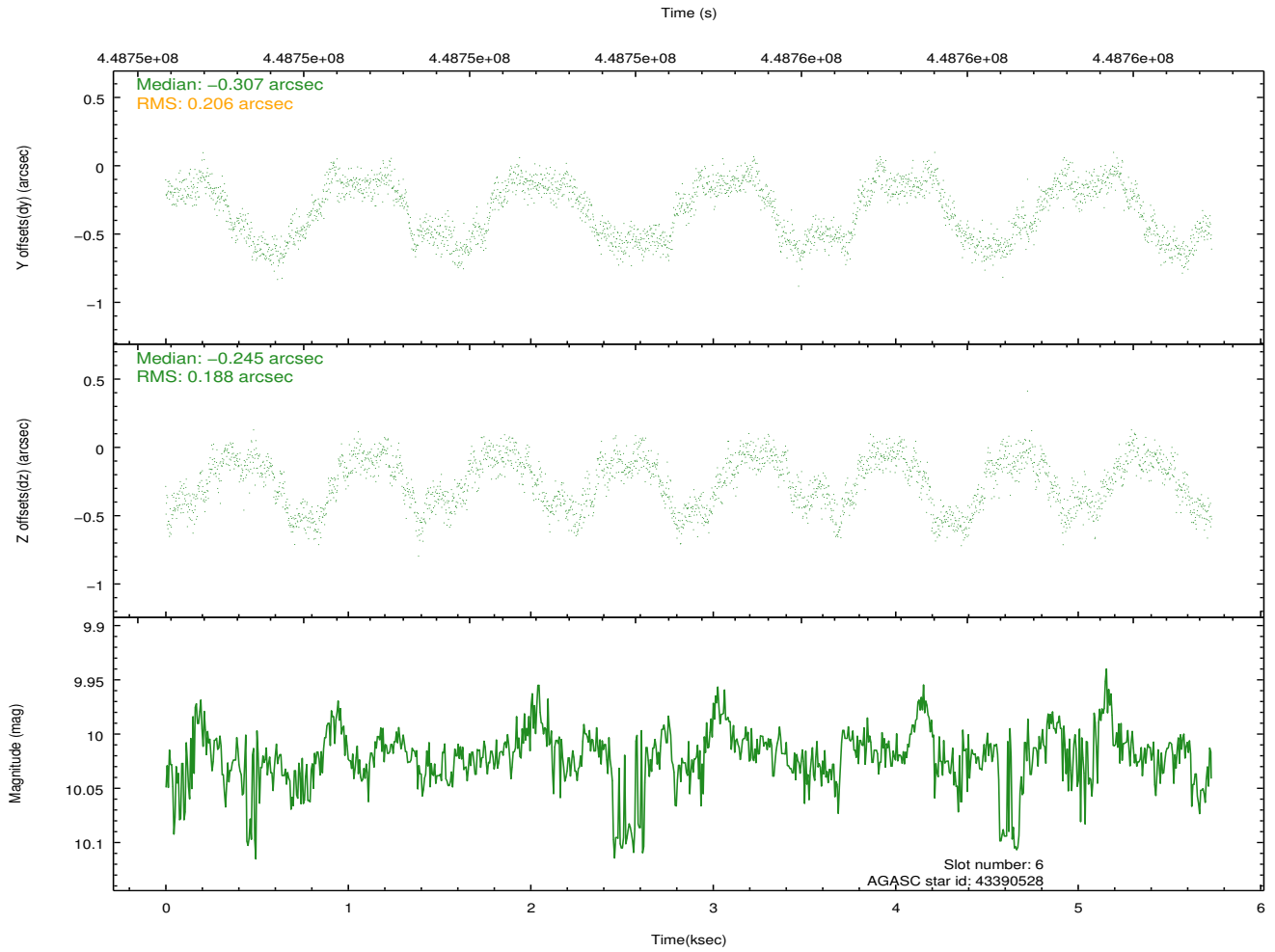
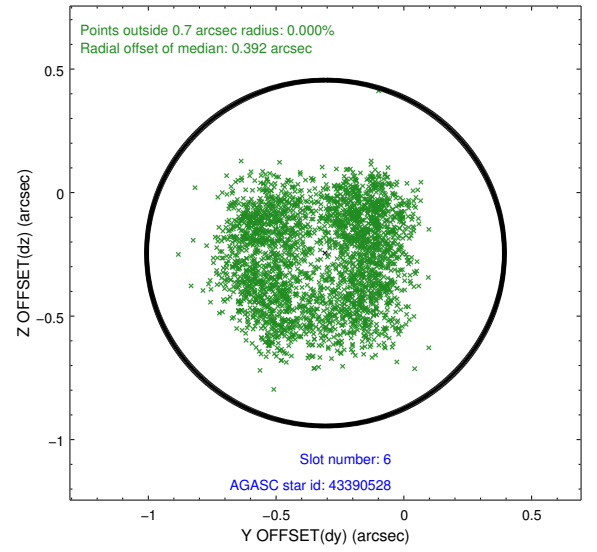
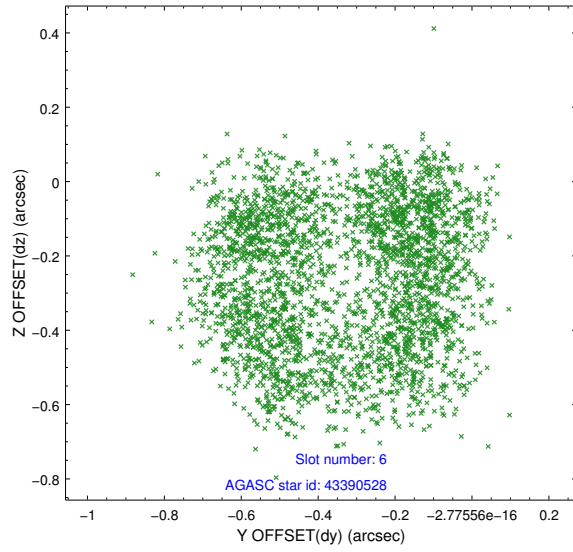
## 2.4.2 Slot 4



### 2.4.3 Slot 5

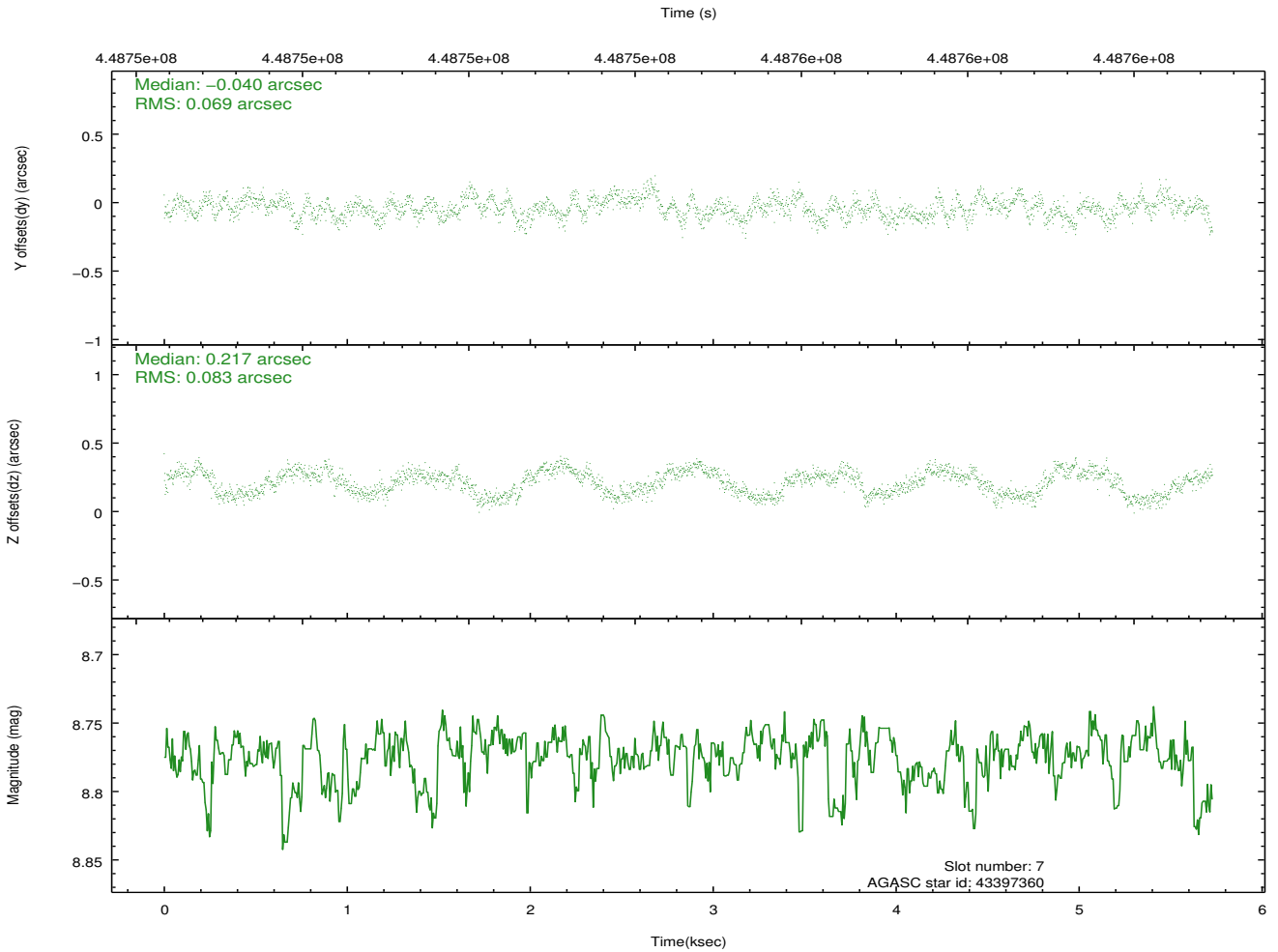
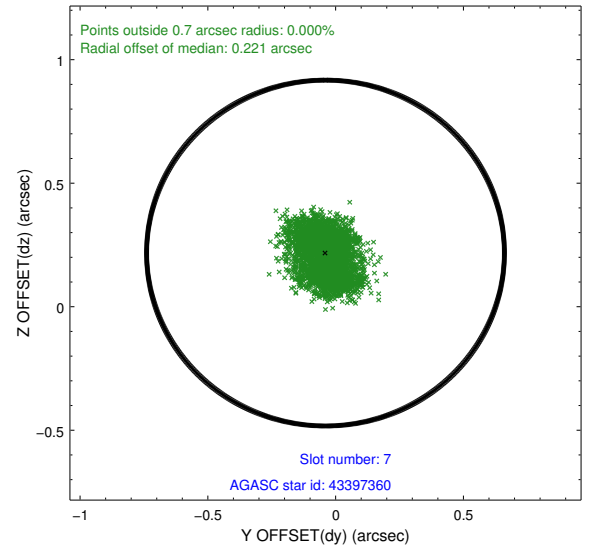
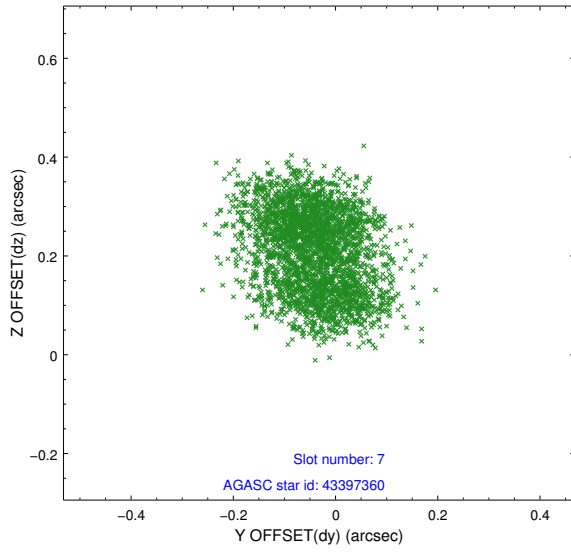


## 2.4.4 Slot 6



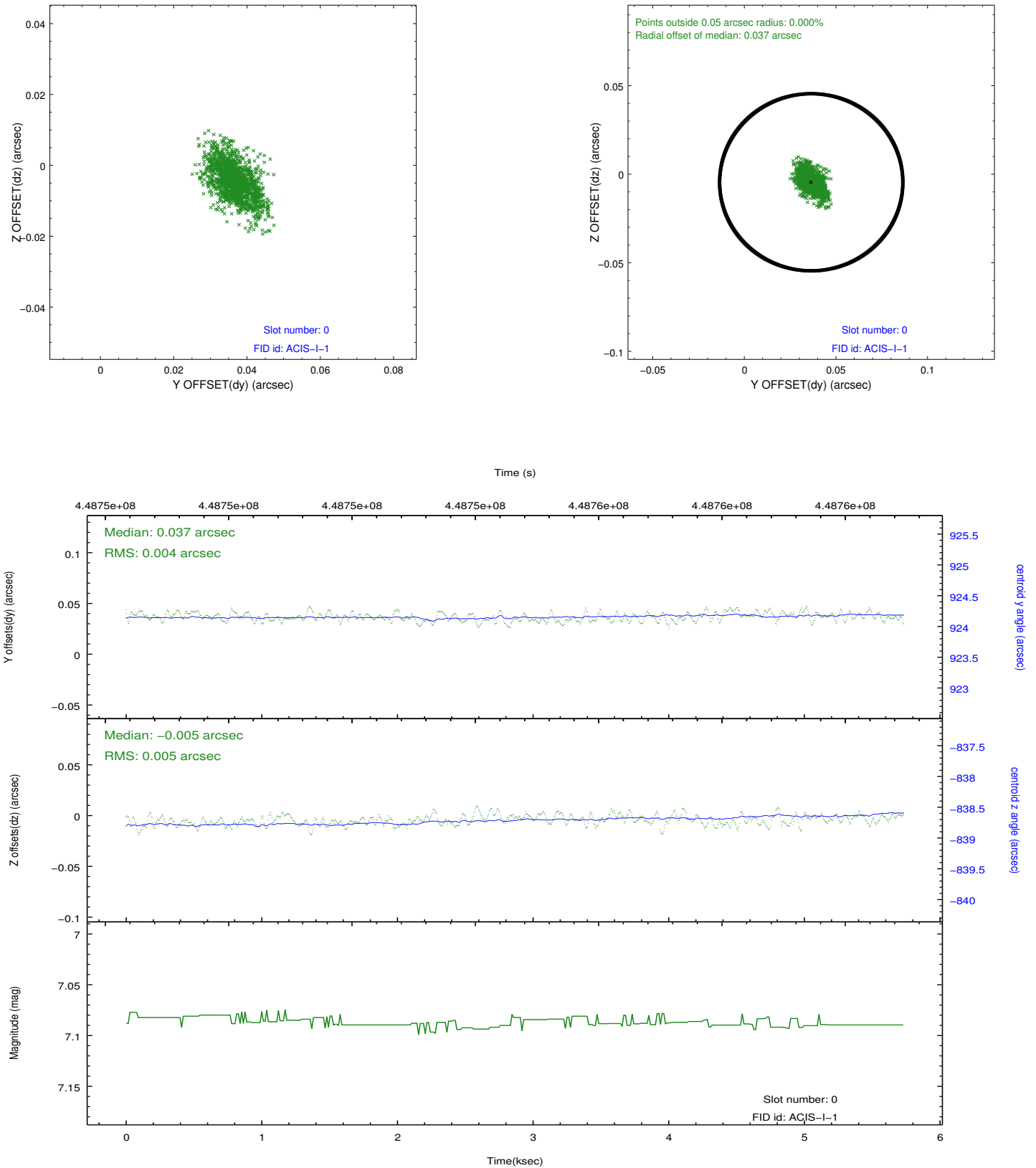


## 2.4.5 Slot 7

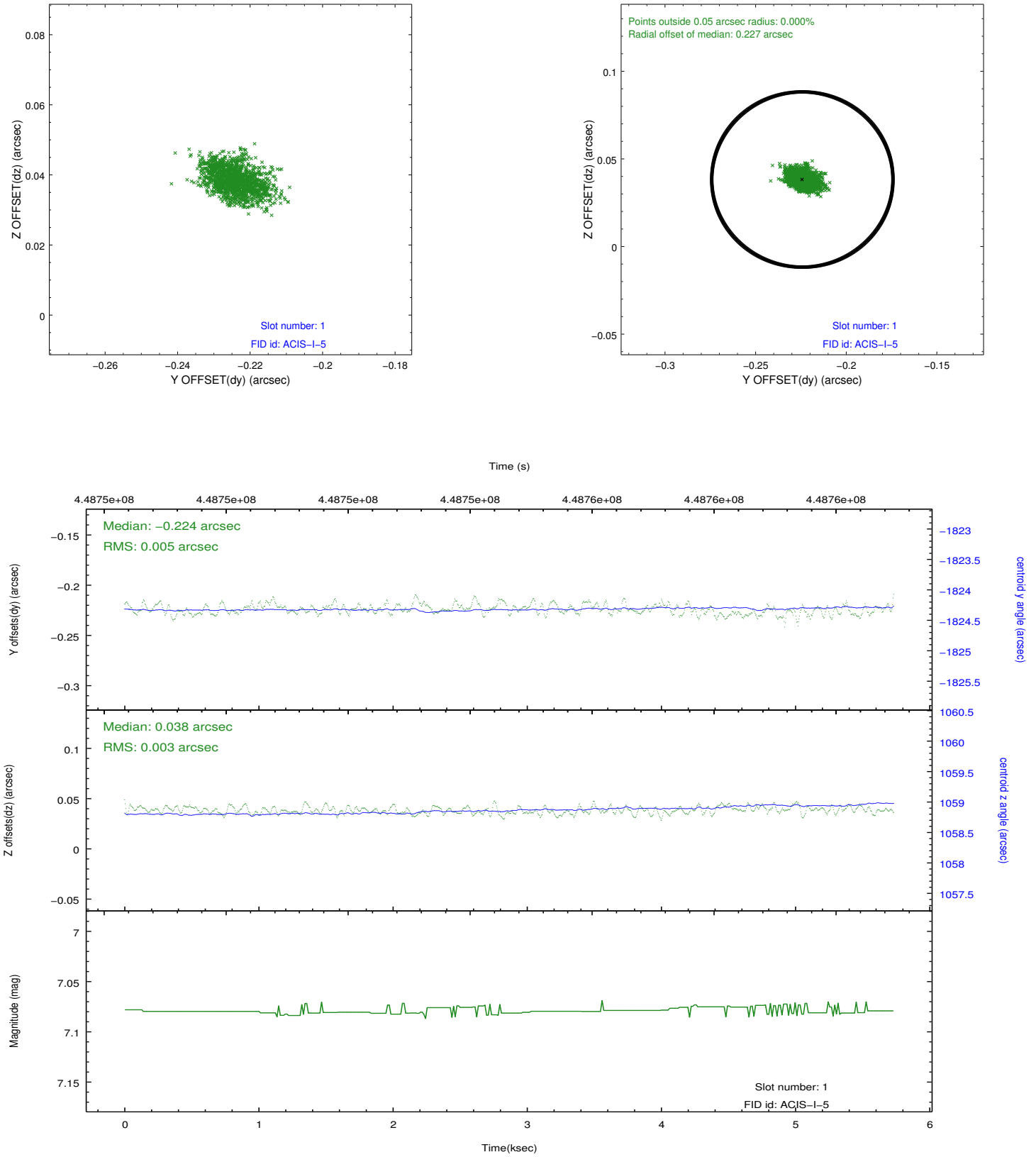


## 2.5 FID Slots

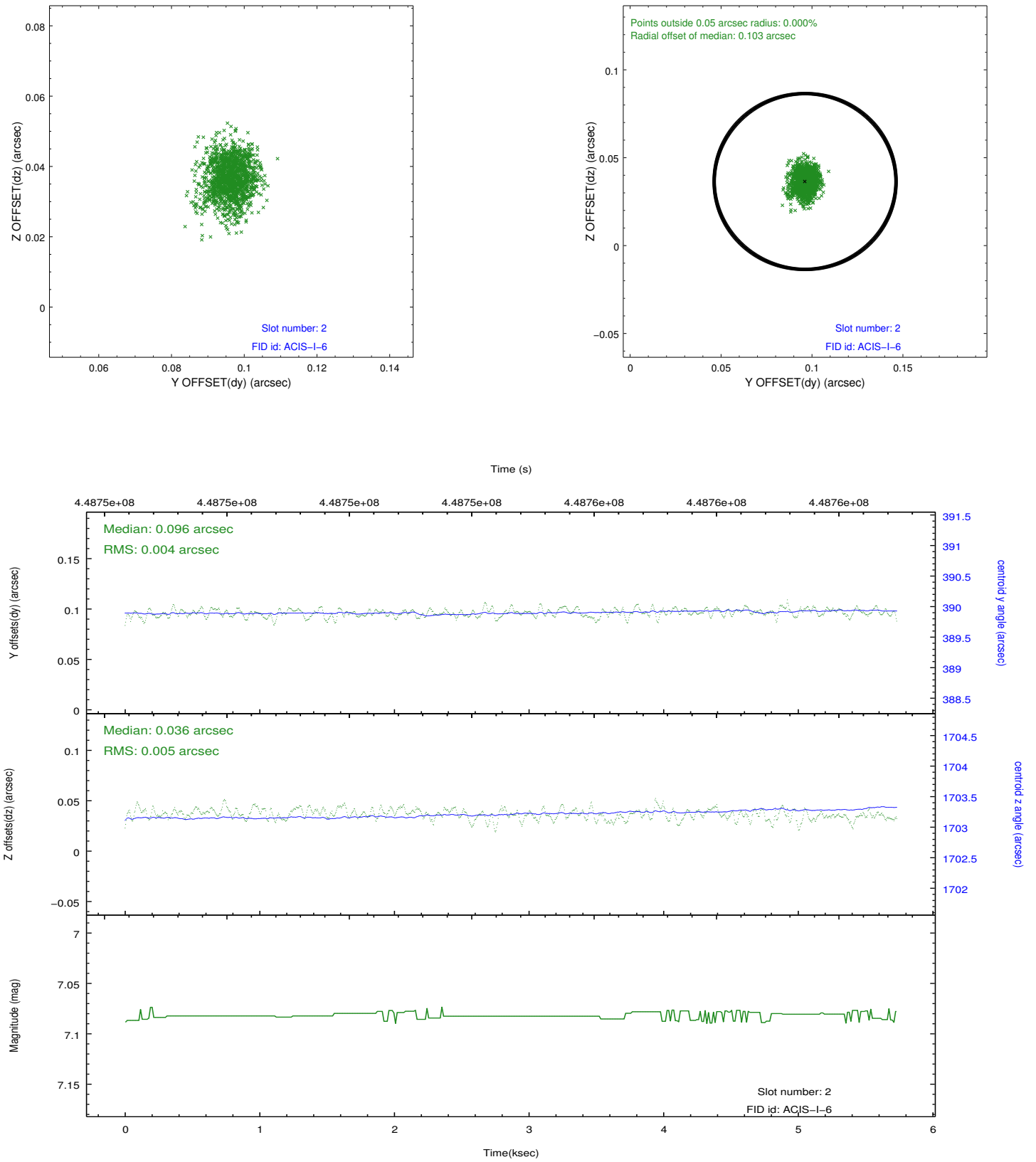
### 2.5.1 Slot 0



## 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)	2012.03.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0870724818707

### A.2 Comments