

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3650 - L2 Version 3  
Chandra X-Ray Center

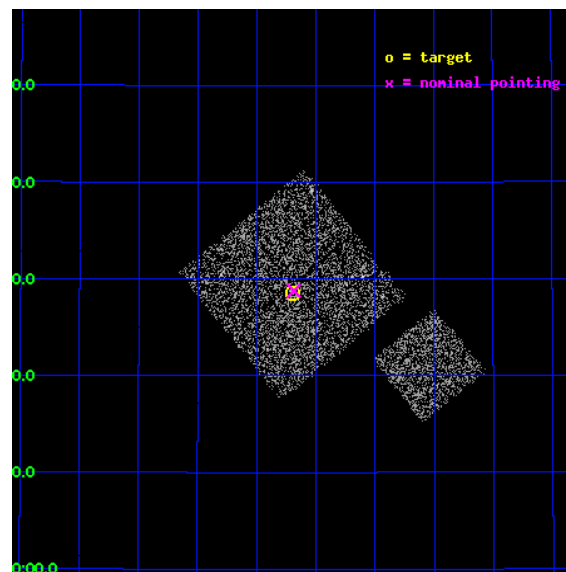
L2 Processing Date : Oct 26 2012

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# 1 Front

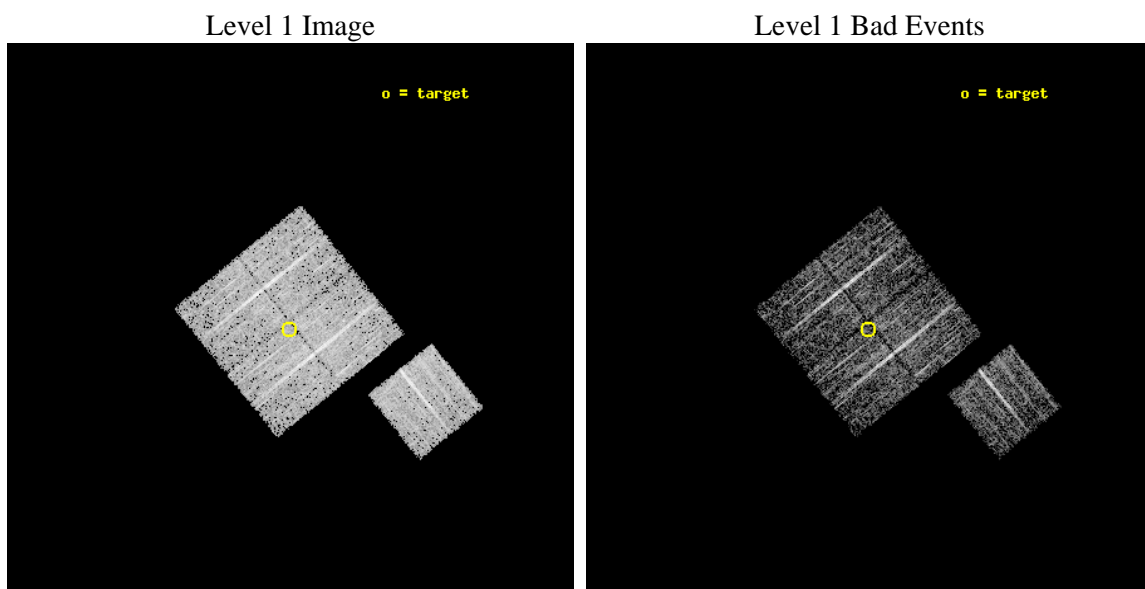
seq_num	900250	Sequence number
obs_id	3650	Observation id
title	CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NOAO FIELD F21	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.17418	Observer's specified target RA [deg]
dec_targ	34.475388	Observer's specified target Dec [deg]
ra_nom	217.17150258954	Nominal RA [deg]
dec_nom	34.47944126451	Nominal Dec [deg]
roll_nom	141.0102162726	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4578.6999911666	Sum of GTIs [s]
livetime	4518.8759049921	Livetime [s]
ontime0	4578.6999911666	Sum of GTIs [s]
ontime1	4578.6999911666	Sum of GTIs [s]
ontime2	4578.6999911666	Sum of GTIs [s]
ontime3	4578.6999911666	Sum of GTIs [s]
ontime6	4578.6999911666	Sum of GTIs [s]
l2events	9329	Number of level 2 events



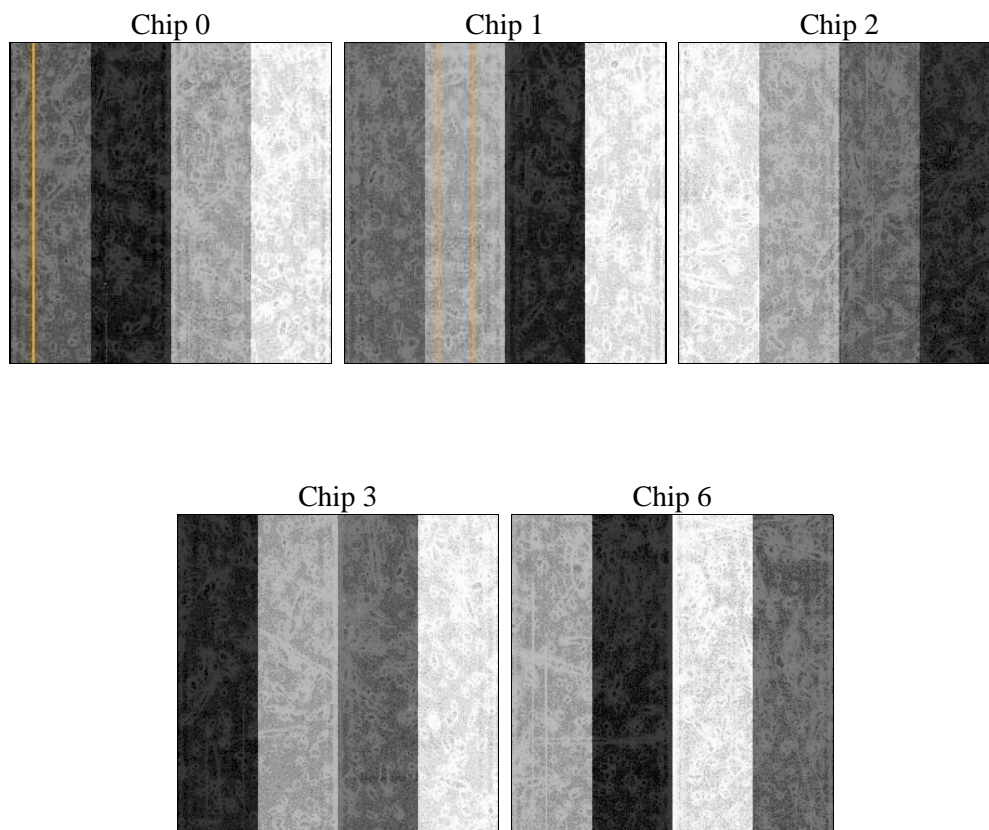
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	4800.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4578.6999911666	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4578.6999911666	Sum of GTIs [s]
date	2012-10-26T00:16:51	Date and time of file creation	ontime1	4578.6999911666	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4578.6999911666	Sum of GTIs [s]
			ontime3	4578.6999911666	Sum of GTIs [s]
			ontime6	4578.6999911666	Sum of GTIs [s]
			l1events	112851	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	21911	20645	24637	22389	23269
rejected events	19651	18345	22386	20213	20934
rejected %	89%	88%	90%	90%	89%

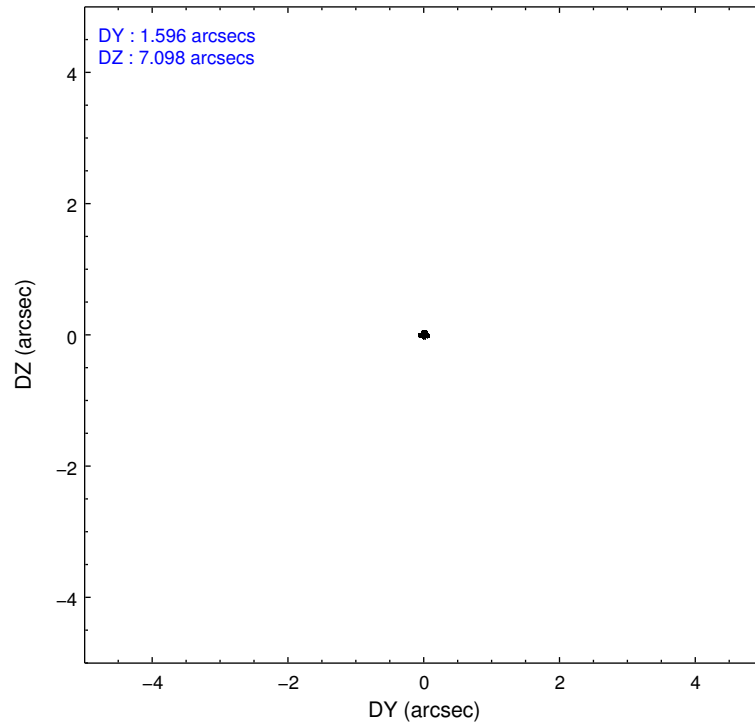
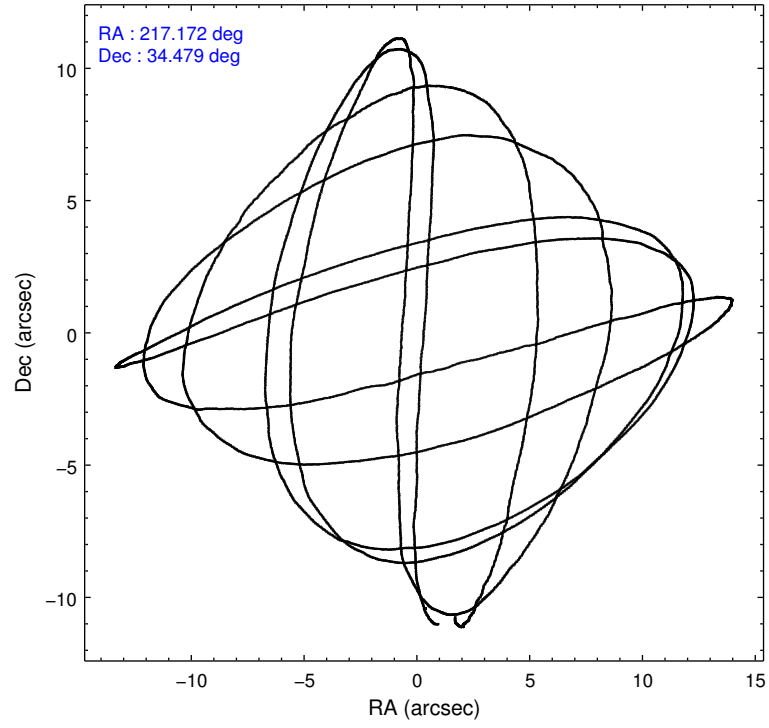
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	838	851	890	813	851
	3%	4%	3%	3%	3%
grade 1 events	10	8	12	15	13
	0%	0%	0%	0%	0%
grade 2 events	497	468	484	449	485
	2%	2%	1%	2%	2%
grade 3 events	277	304	267	257	297
	1%	1%	1%	1%	1%
grade 4 events	261	265	253	234	251
	1%	1%	1%	1%	1%
grade 5 events	653	682	626	788	796
	2%	3%	2%	3%	3%
grade 6 events	388	412	358	423	452
	1%	1%	1%	1%	1%
grade 7 events	18987	17655	21747	19410	20124
	86%	85%	88%	86%	86%

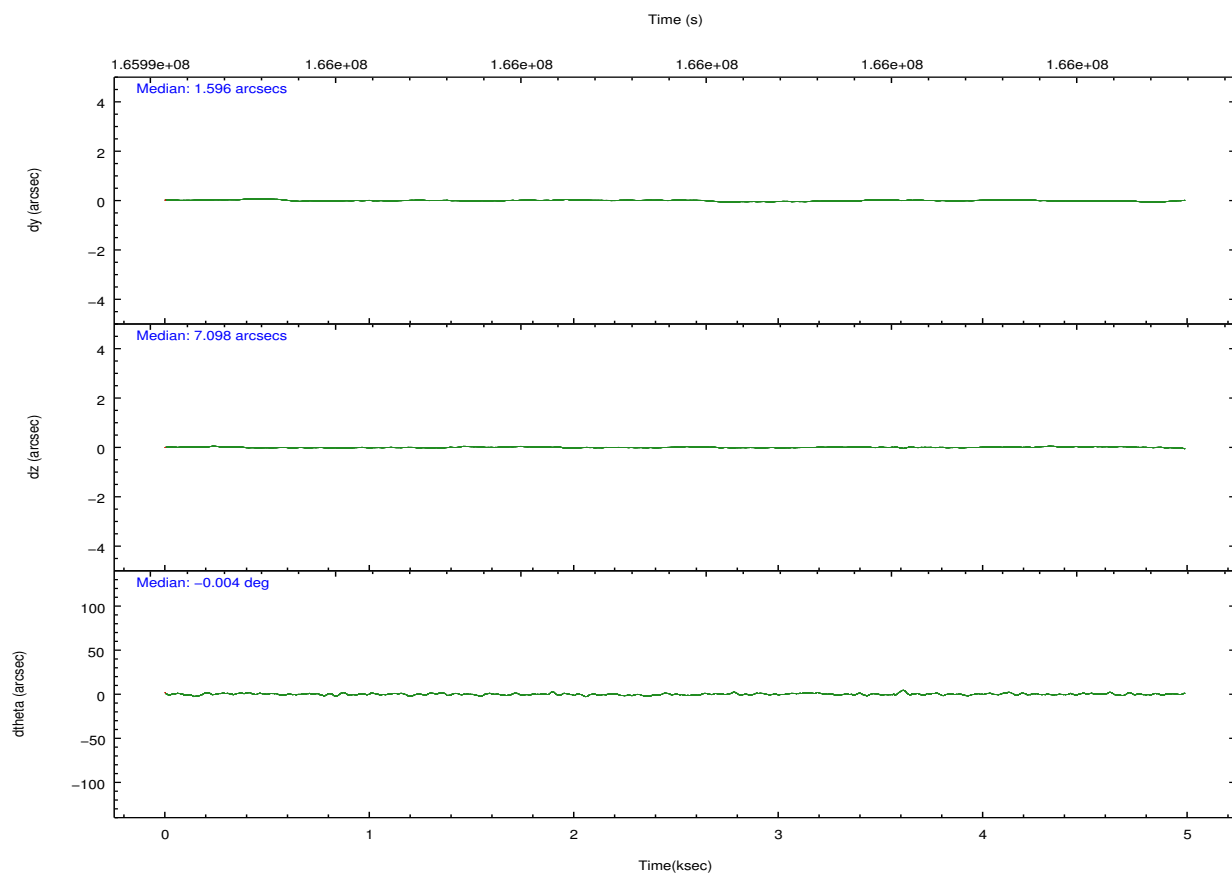
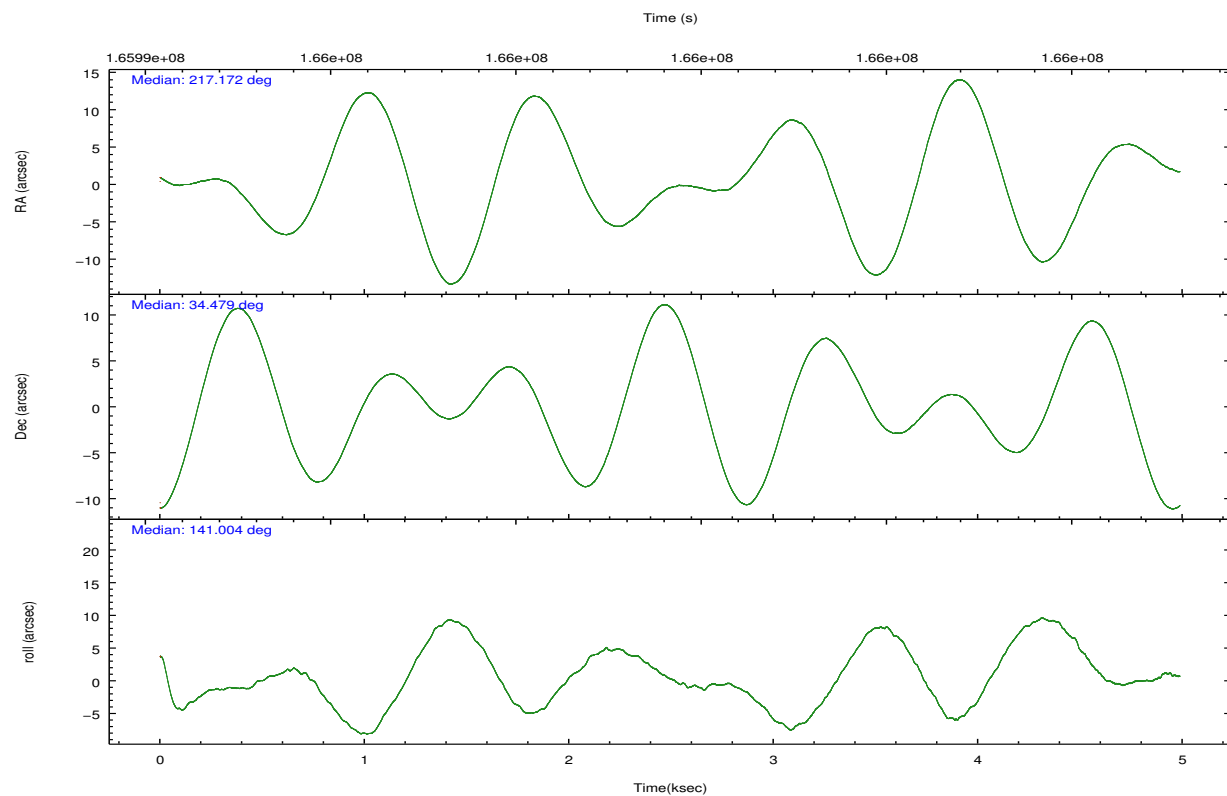


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	217.204364	217.1715025895371	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.475312	34.47944126450989	Alternating exposures requested	N	N
[deg] Pointing Roll	140.782914	141.0102162725973	[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)	165994525.184000	165994149.80041			
Observation start date	2003-04-06T05:34:21	2003-04-06T05:29:09			
[s] Observation end time (MET)	165999325.184000	165999459.30063			
Observation end date	2003-04-06T06:54:21	2003-04-06T06:57:39			
Read mode	TIMED	TIMED			

## 2.3 Aspect



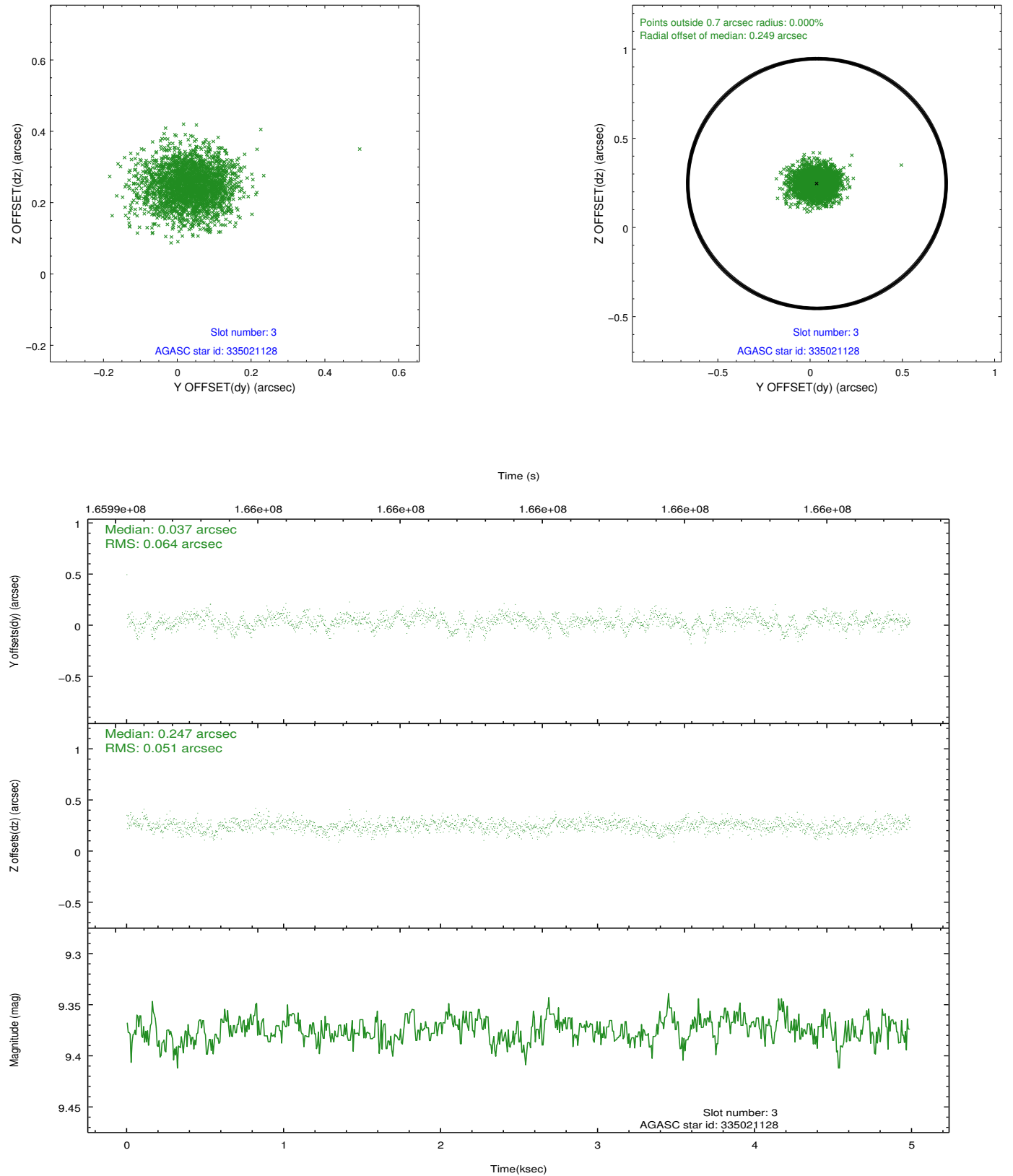


### Slot Statistics

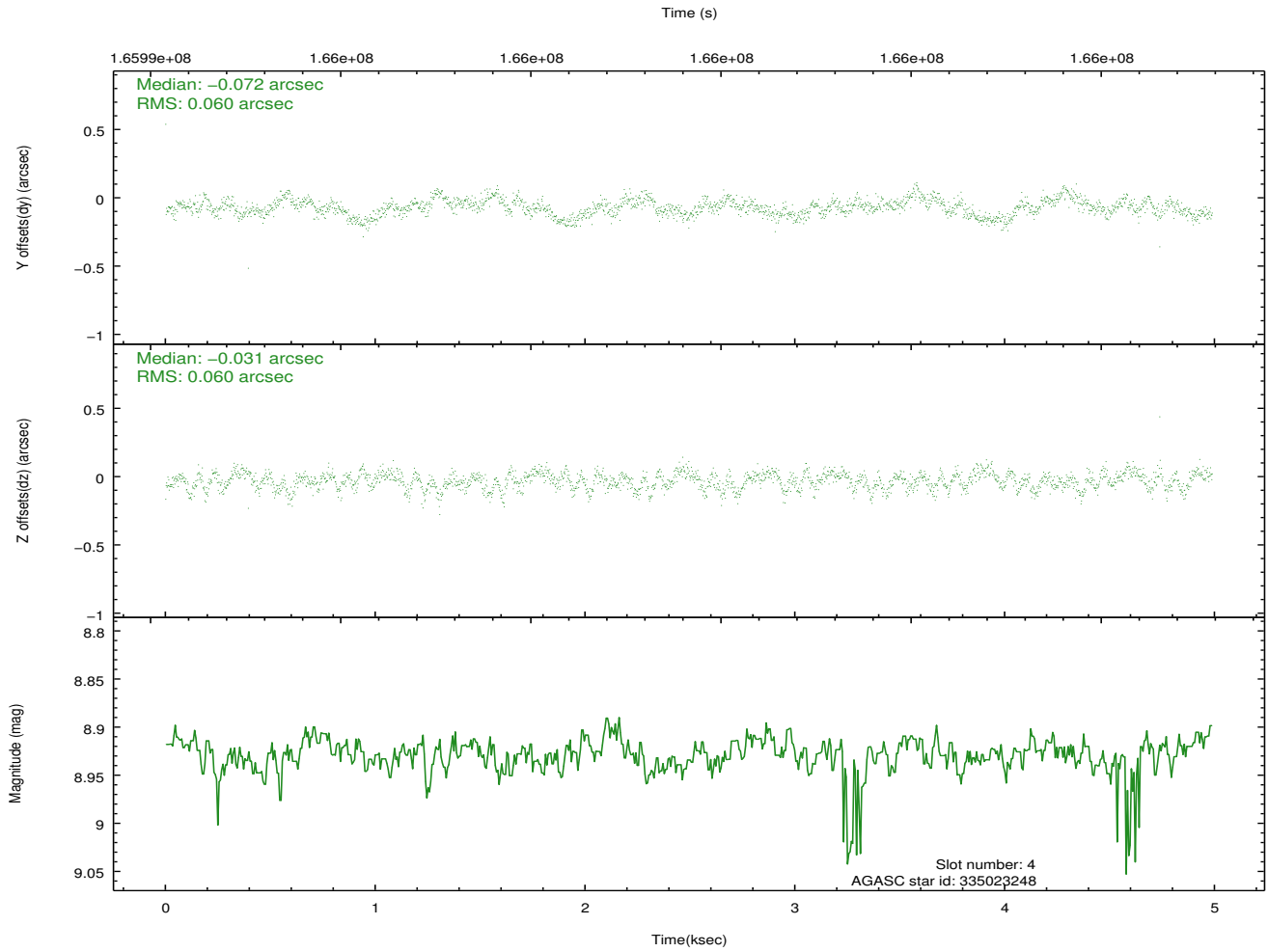
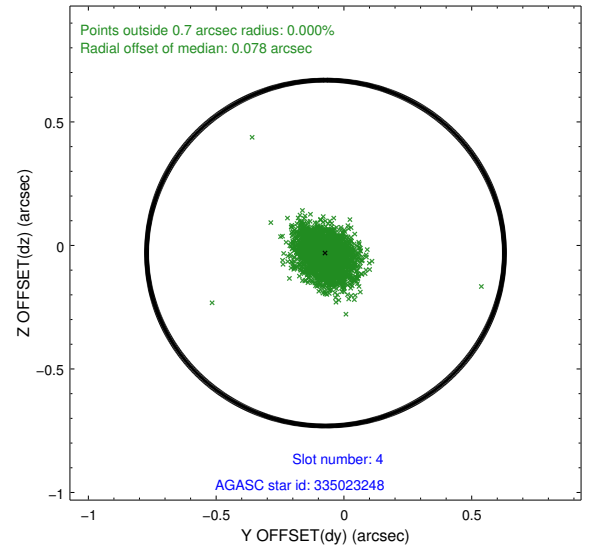
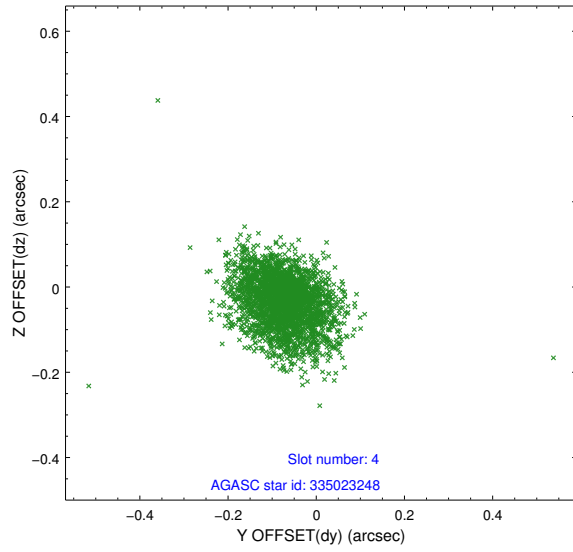
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1217	-0.086	-0.002	0.008	0.013	0.000000	0.000000	938.18	-830.47
1	FID	ACIS-I-2	7.15	1217	-0.058	-0.022	0.007	0.011	0.000000	0.000000	-755.20	-837.59
2	FID	ACIS-I-4	7.18	1217	0.046	0.090	0.006	0.010	0.000000	0.000000	2157.59	1068.86
3	GUIDE	335021128	9.38	2431	0.037	0.247	0.086	0.142	216.159551	34.422539	2293.98	2097.10
4	GUIDE	335023248	8.93	2428	-0.072	-0.031	0.088	0.144	217.634832	34.944512	86.93	-2113.03
5	GUIDE	335028696	9.17	2433	0.083	-0.074	0.087	0.136	217.260519	33.844112	-1566.54	1653.27
6	GUIDE	335030384	8.85	2434	-0.011	-0.232	0.071	0.114	216.806407	34.722197	1475.36	54.77
7	GUIDE	335417968	9.40	2433	-0.033	0.095	0.096	0.158	217.358149	35.055285	970.31	-1904.16

## 2.4 Star Slots

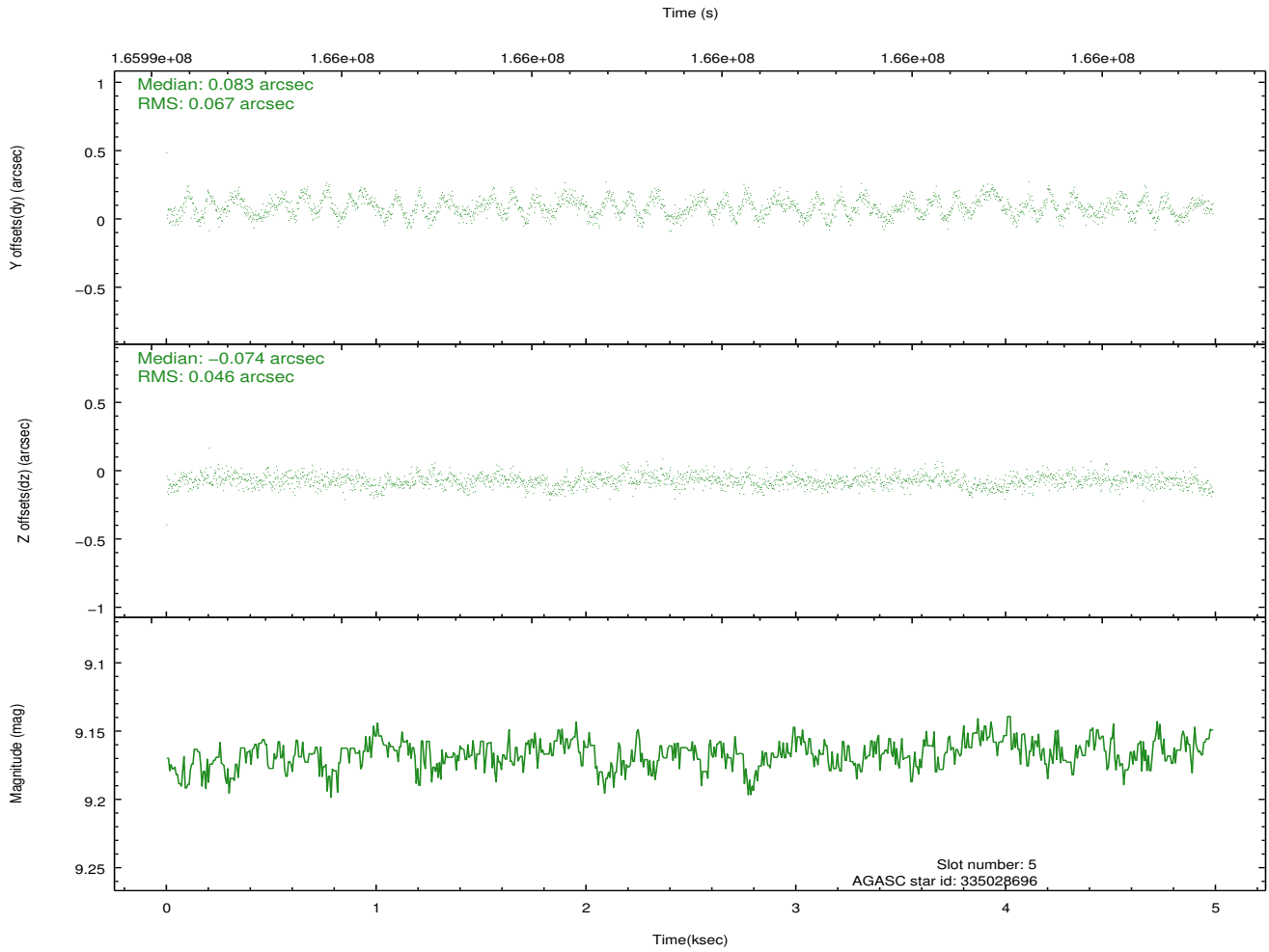
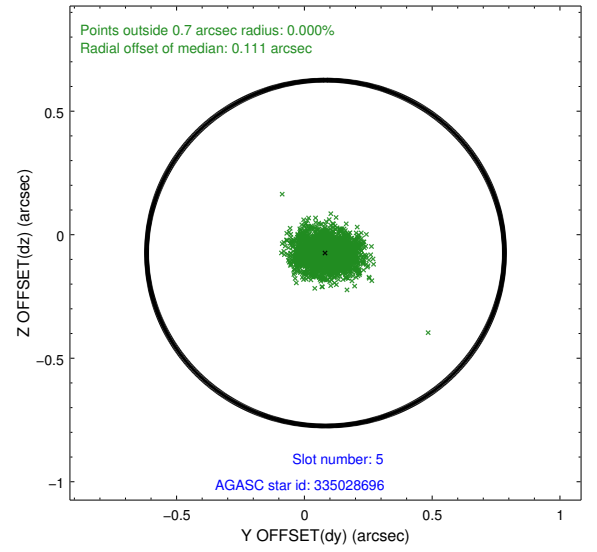
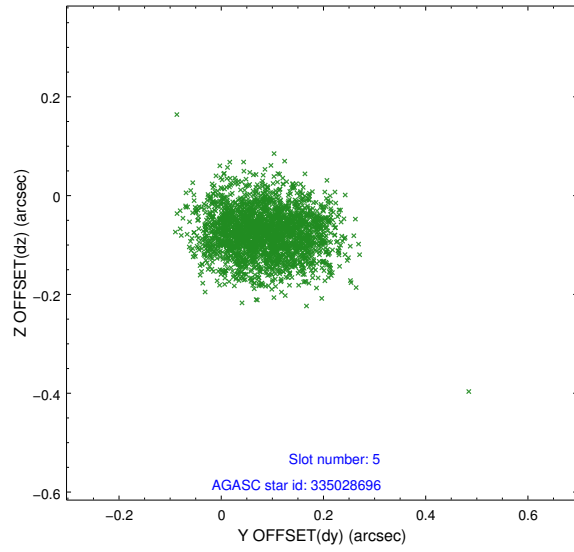
### 2.4.1 Slot 3



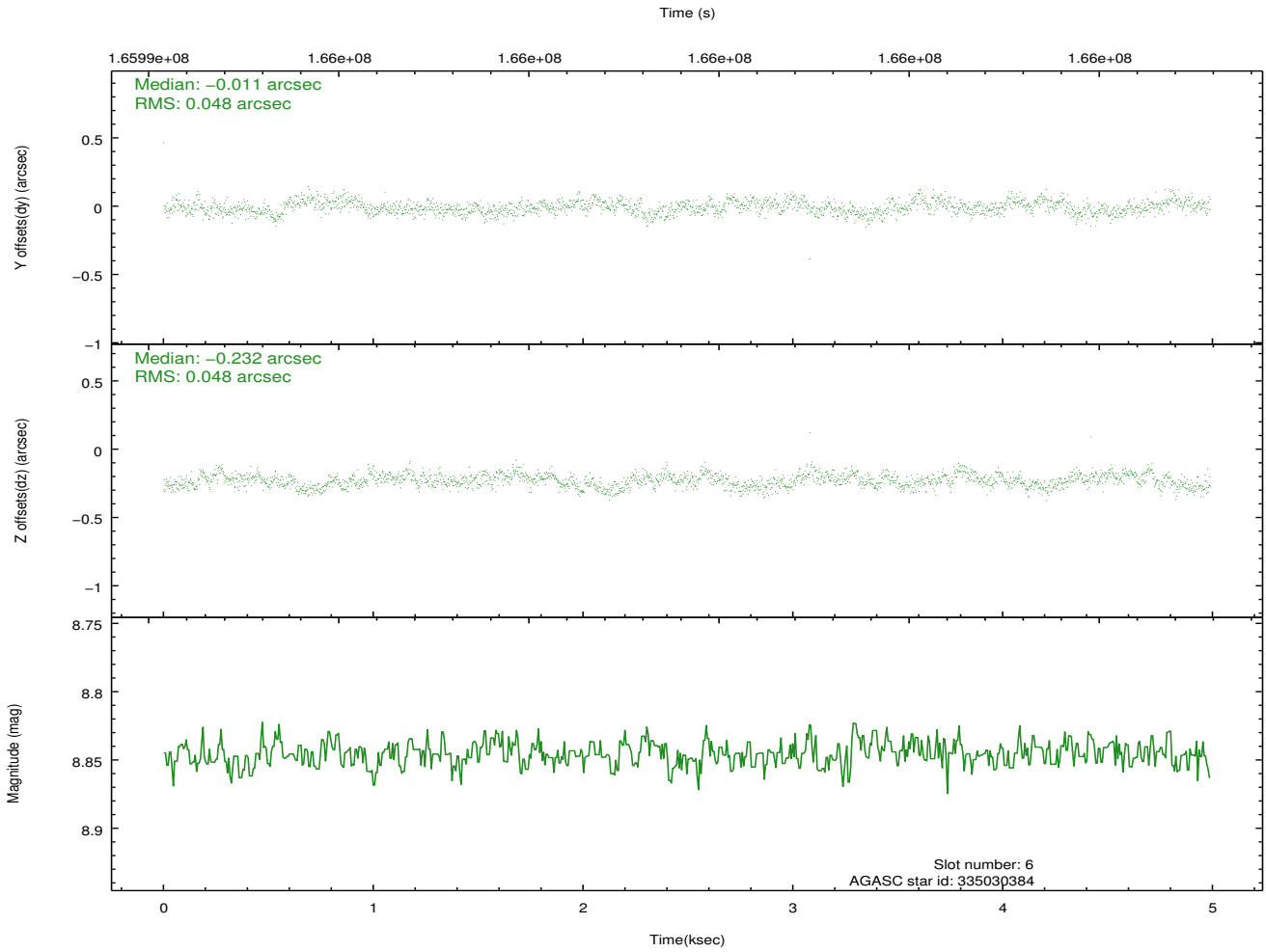
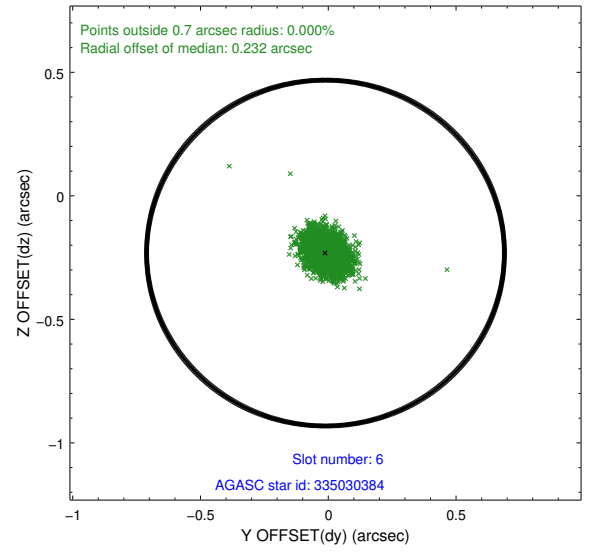
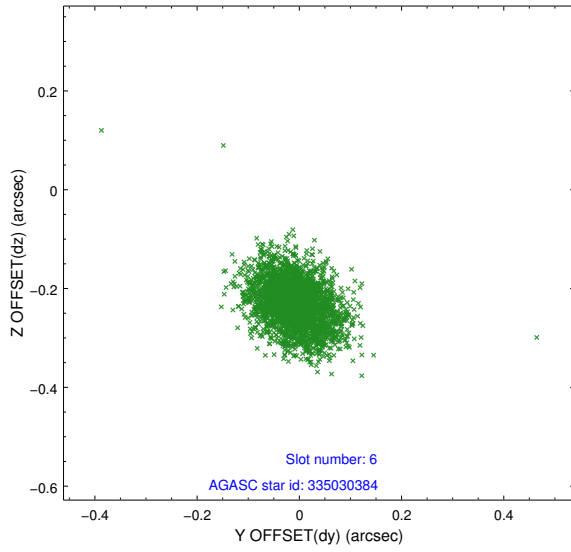
## 2.4.2 Slot 4



### 2.4.3 Slot 5

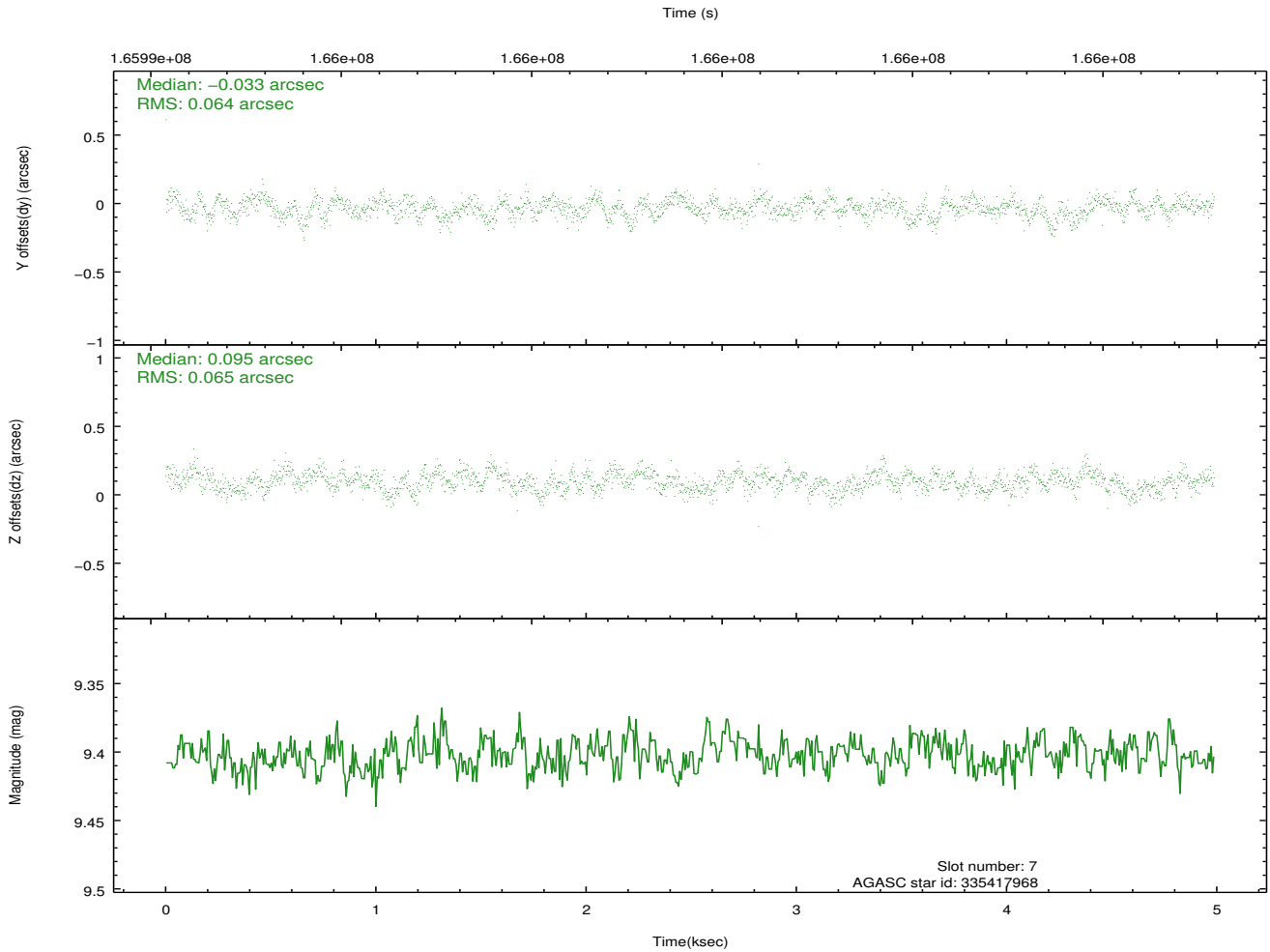
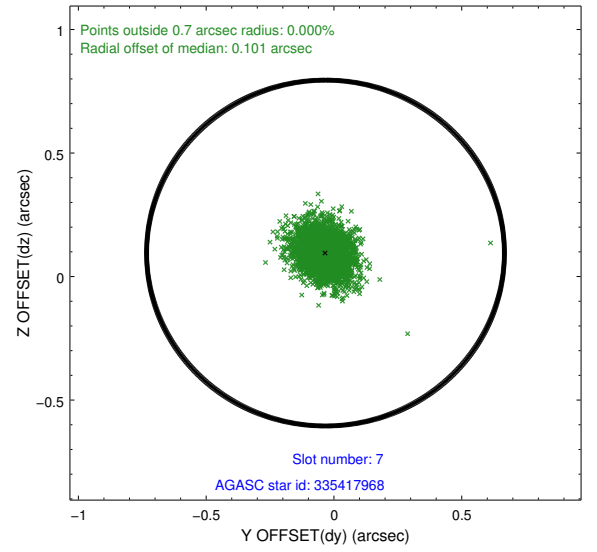
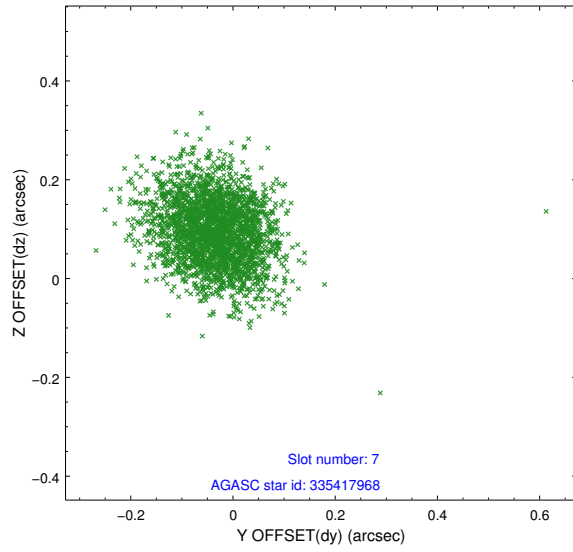


## 2.4.4 Slot 6



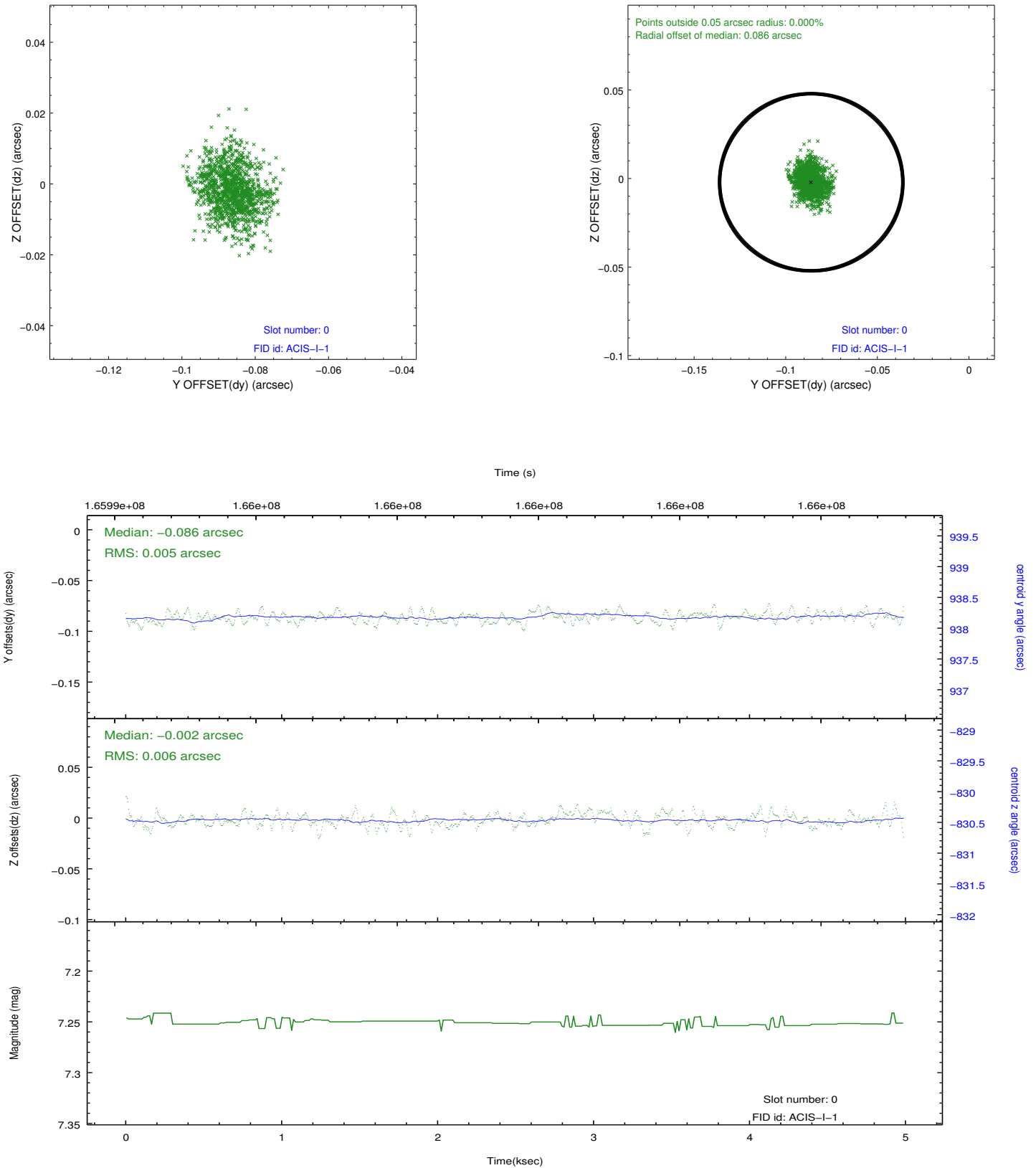


## 2.4.5 Slot 7

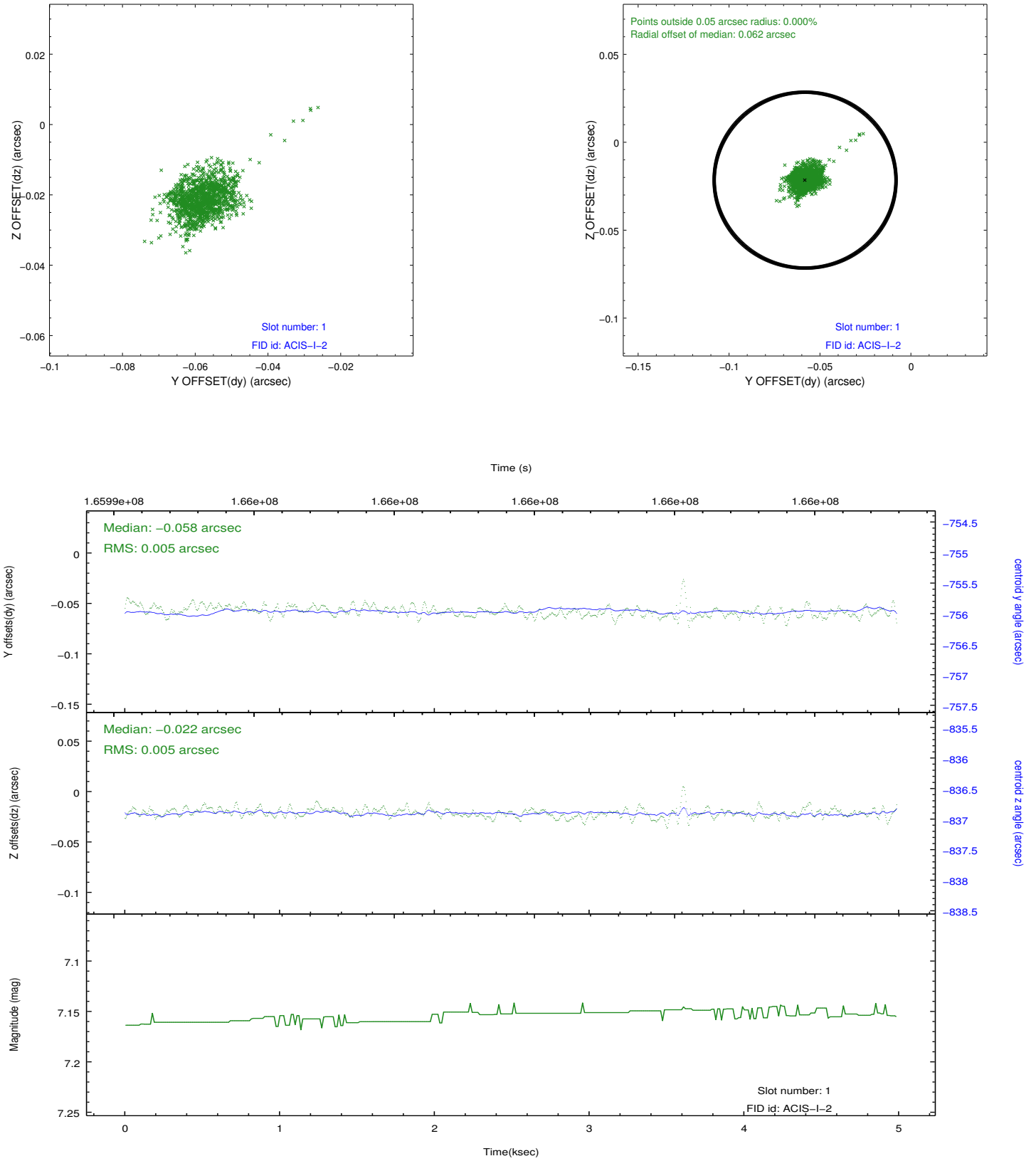


## 2.5 FID Slots

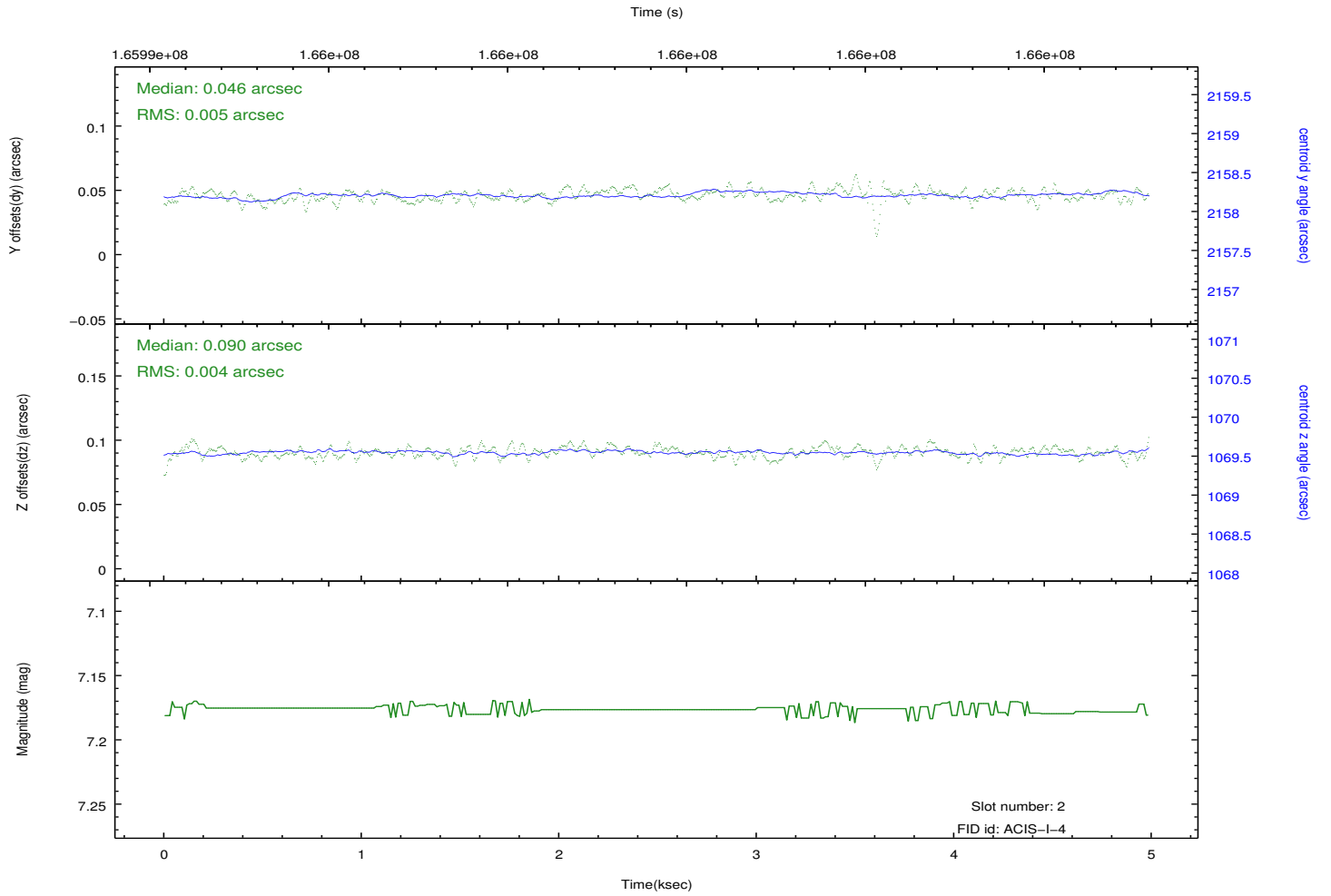
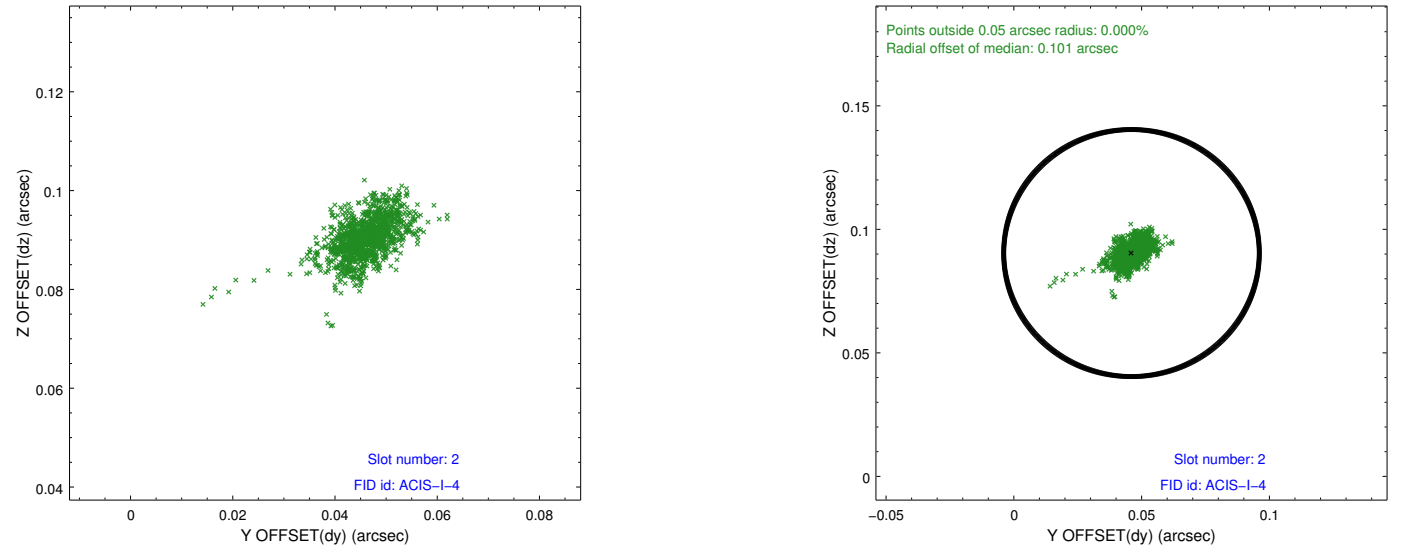
### 2.5.1 Slot 0



## 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)	2012.11.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.581

### A.2 Comments