

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3608 - L2 Version 3  
Chandra X-Ray Center

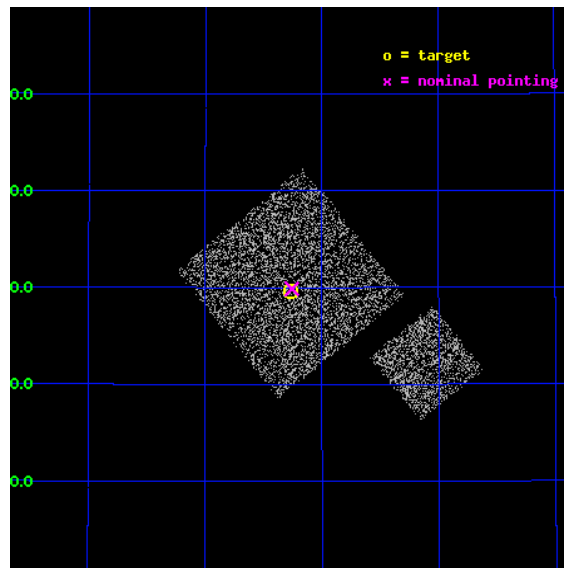
L2 Processing Date : Oct 26 2012

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# 1 Front

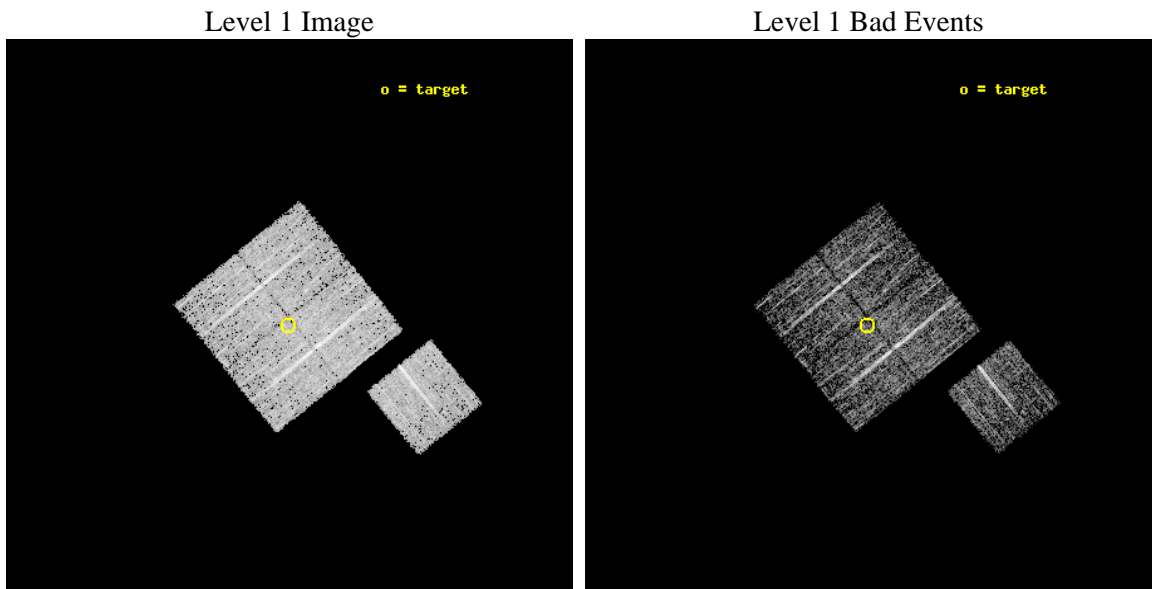
seq_num	900208	Sequence number
obs_id	3608	Observation id
title	CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NOAO FIELD F58	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.816997	Observer's specified target RA [deg]
dec_targ	35.493858	Observer's specified target Dec [deg]
ra_nom	217.81428044643	Nominal RA [deg]
dec_nom	35.497866985257	Nominal Dec [deg]
roll_nom	141.0102115951	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4674.2640901506	Sum of GTIs [s]
livetime	4613.1913886696	Livetime [s]
ontime0	4667.8590096533	Sum of GTIs [s]
ontime1	4674.182010144	Sum of GTIs [s]
ontime2	4674.2230501473	Sum of GTIs [s]
ontime3	4674.2640901506	Sum of GTIs [s]
ontime6	4674.0999301374	Sum of GTIs [s]
l2events	9265	Number of level 2 events



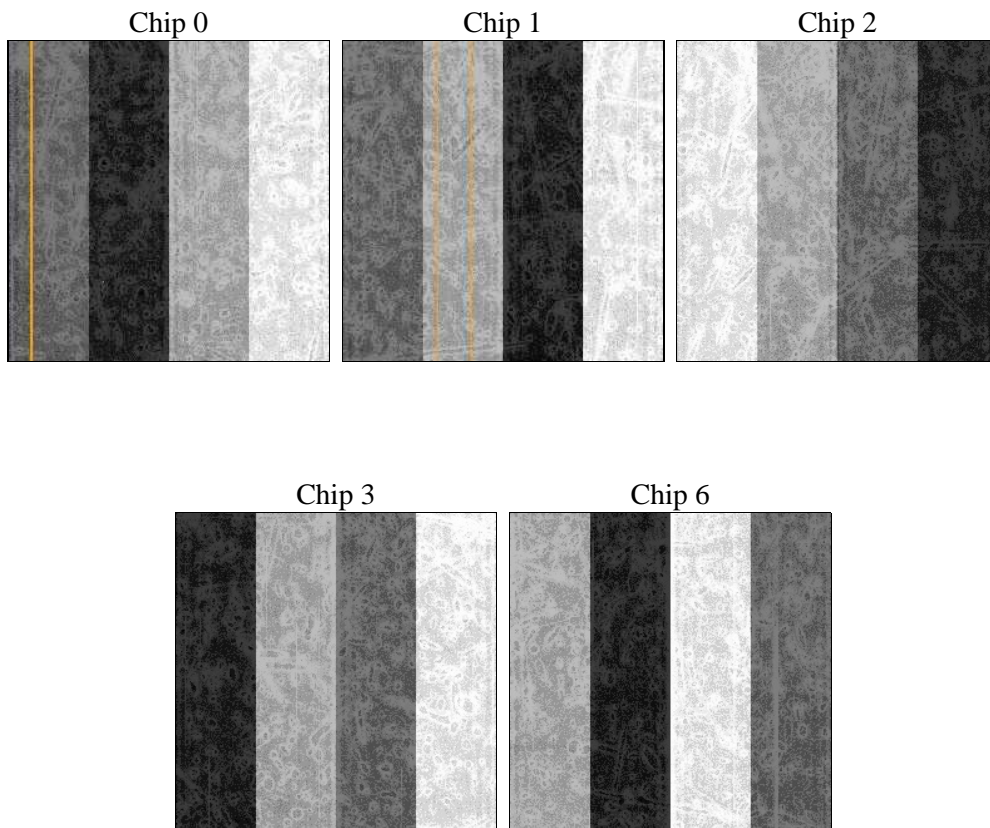
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	4900.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4674.2640901506	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4667.8590096533	Sum of GTIs [s]
date	2012-10-27T01:36:19	Date and time of file creation	ontime1	4674.182010144	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4674.2230501473	Sum of GTIs [s]
			ontime3	4674.2640901506	Sum of GTIs [s]
			ontime6	4674.0999301374	Sum of GTIs [s]
			l1events	117402	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	21957	22102	26581	23729	23033
rejected events	19705	19805	24361	21632	20651
rejected %	89%	89%	91%	91%	89%

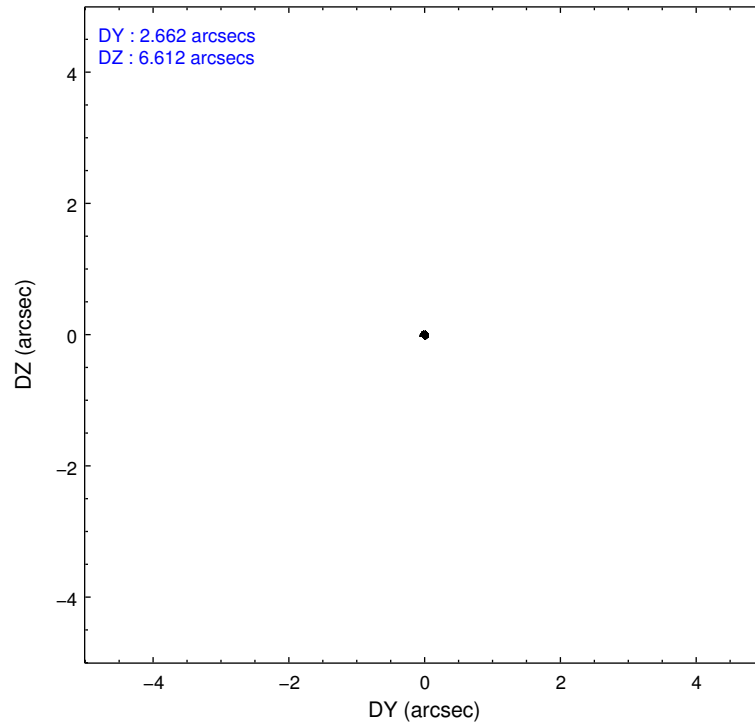
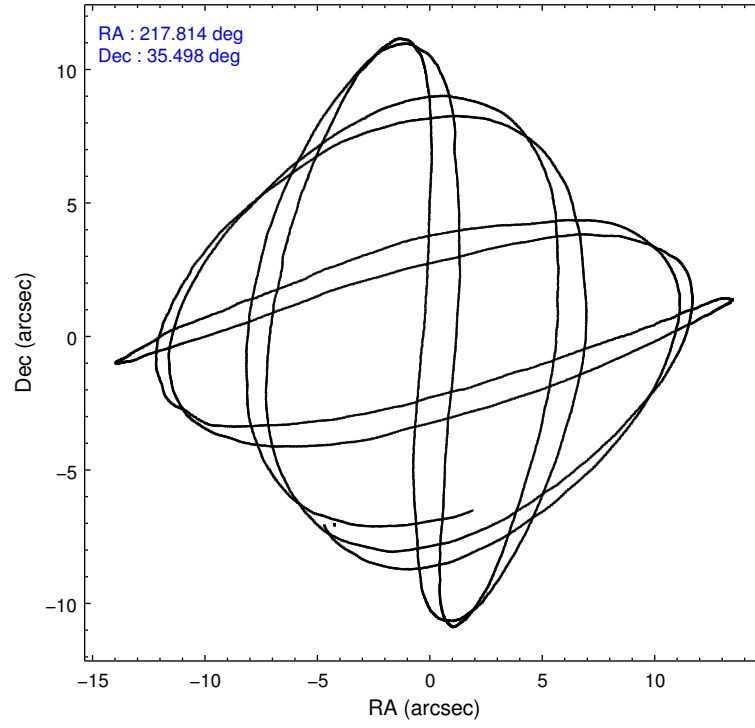
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	815	826	835	756	883
	3%	3%	3%	3%	3%
grade 1 events	11	8	11	9	11
	0%	0%	0%	0%	0%
grade 2 events	490	507	558	458	476
	2%	2%	2%	1%	2%
grade 3 events	306	296	225	284	311
	1%	1%	0%	1%	1%
grade 4 events	240	243	237	231	274
	1%	1%	0%	0%	1%
grade 5 events	694	739	693	759	737
	3%	3%	2%	3%	3%
grade 6 events	404	428	366	372	441
	1%	1%	1%	1%	1%
grade 7 events	18997	19055	23656	20860	19900
	86%	86%	88%	87%	86%

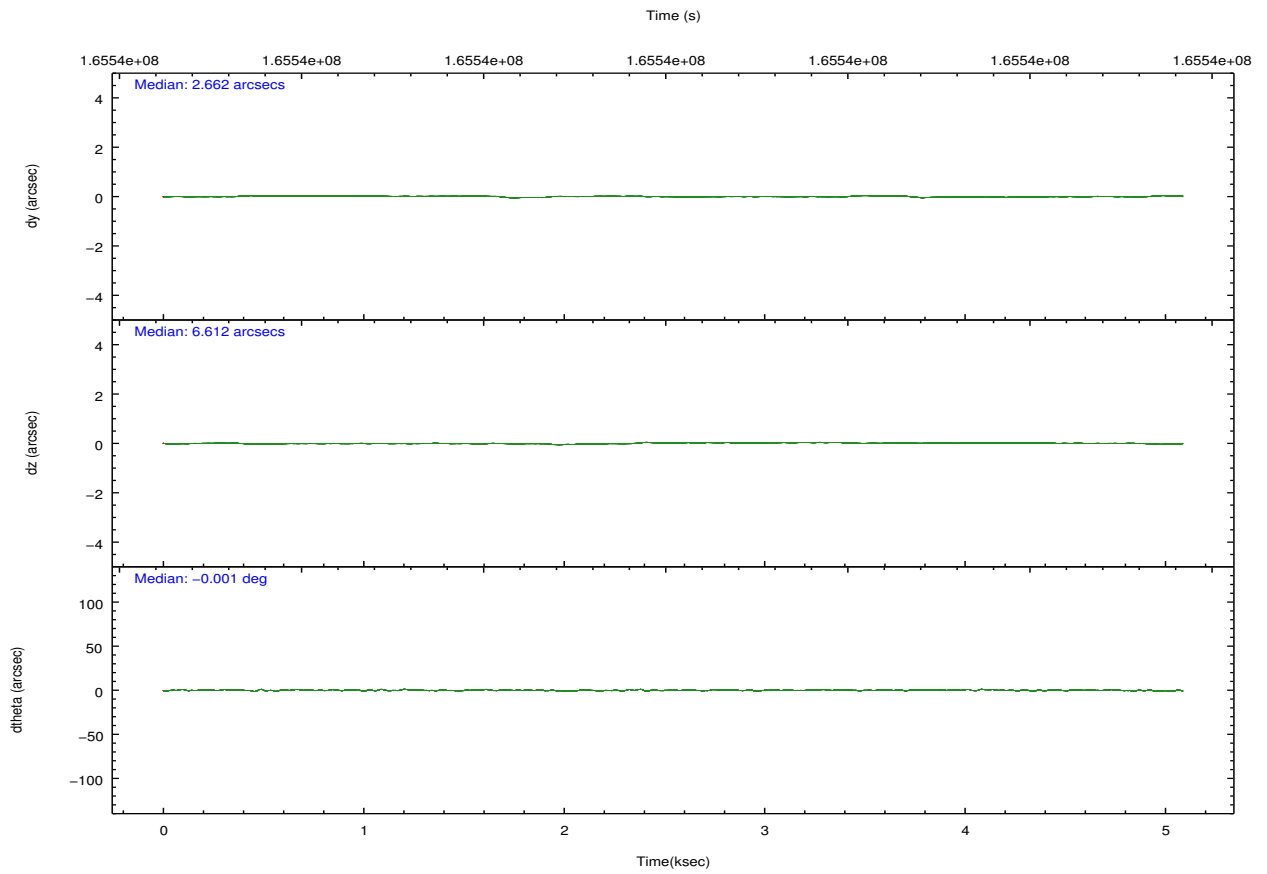
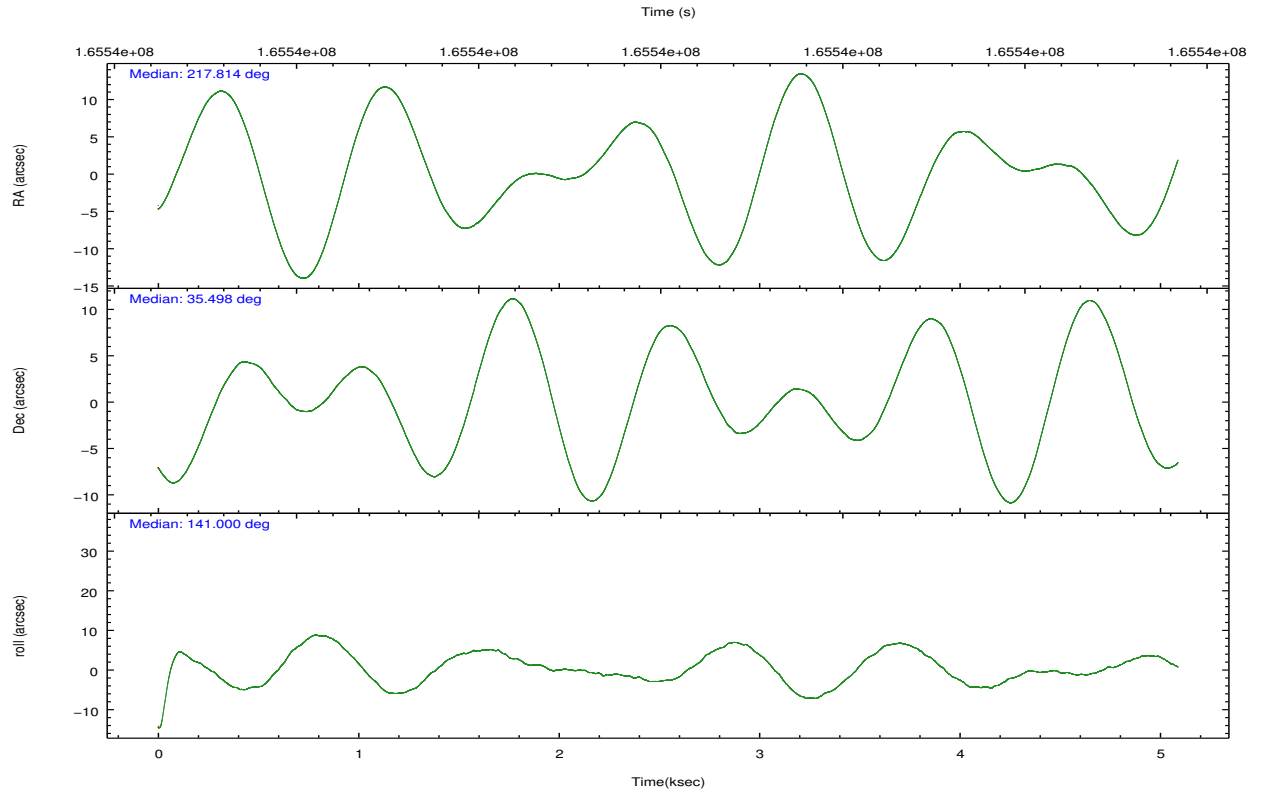


## 2.2 Compared Parameters

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	217.847559	217.814280446435	Subarray requested	NONE	NONE
[deg] Pointing Dec	35.493773	35.49786698525661	Alternating exposures requested	N	N
[deg] Pointing Roll	140.782250	141.0102115951017	[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)	165536684.184000	165536307.90608			
Observation start date	2003-03-31T22:23:40	2003-03-31T22:18:27			
[s] Observation end time (MET)	165541584.184000	165541787.55632			
Observation end date	2003-03-31T23:45:20	2003-03-31T23:49:47			
Read mode	TIMED	TIMED			

## 2.3 Aspect



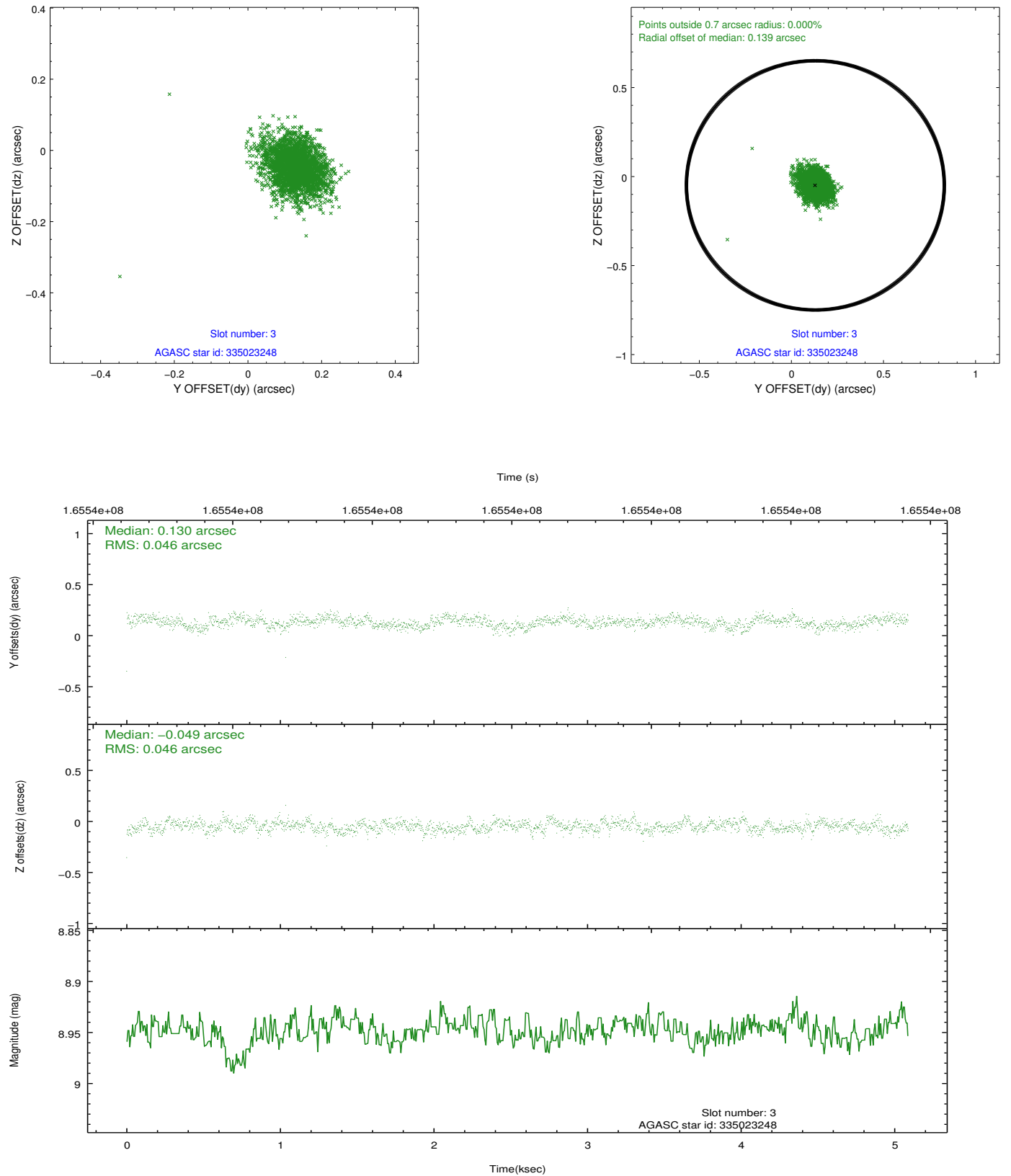


### Slot Statistics

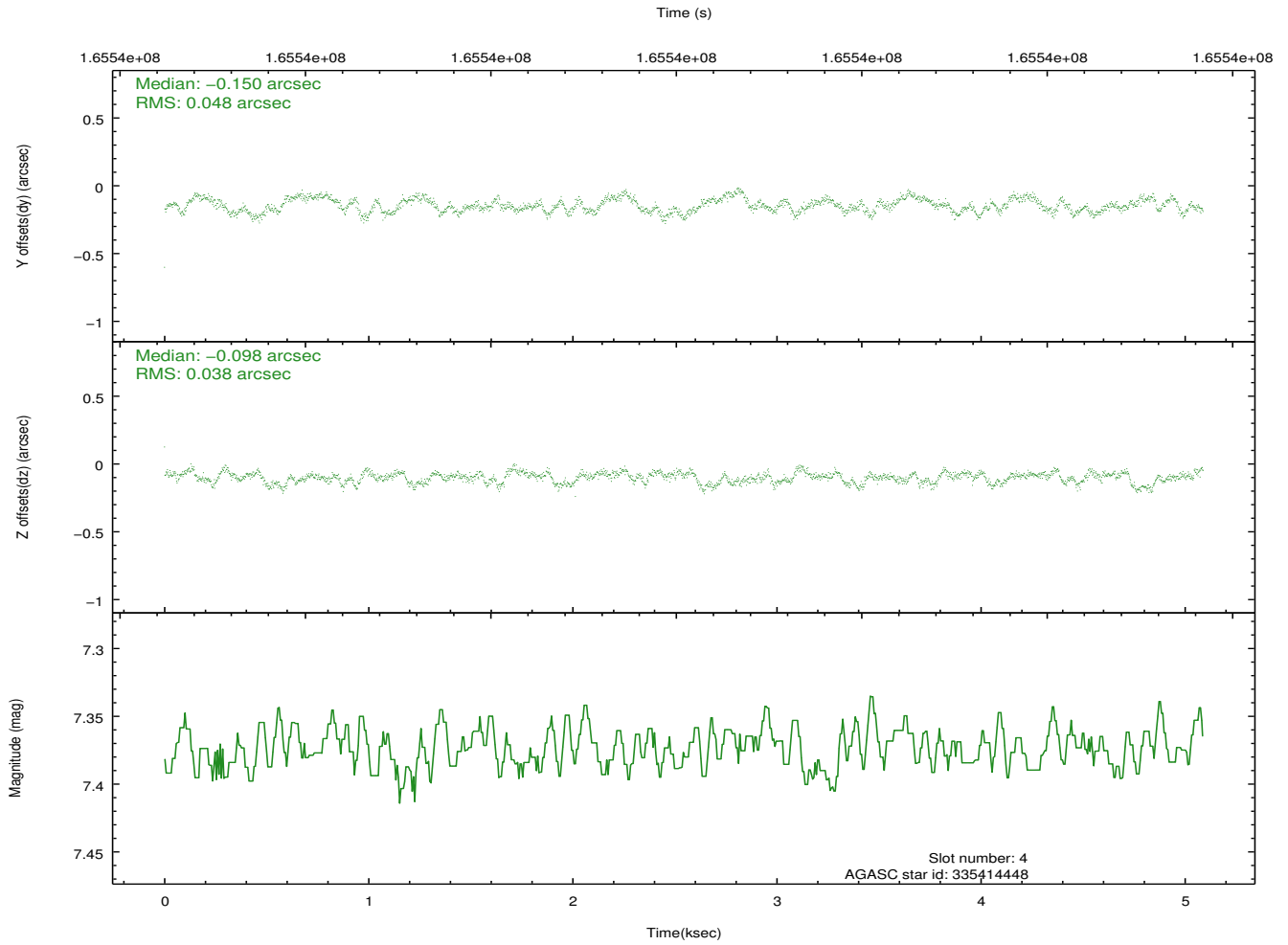
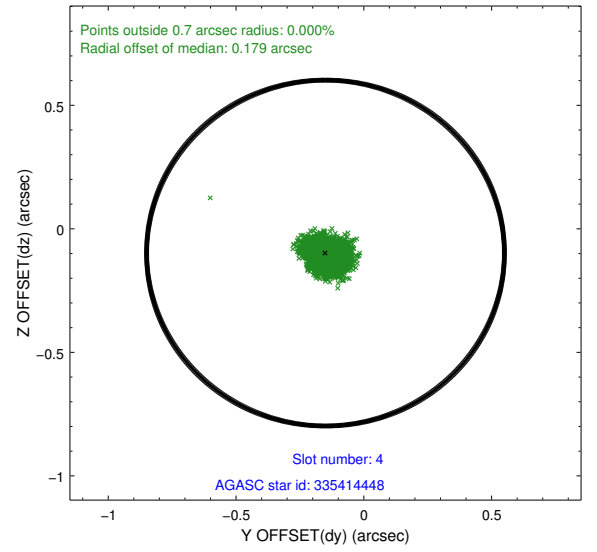
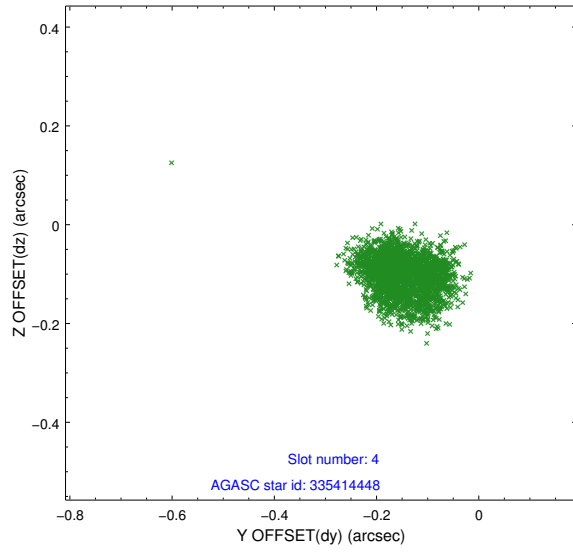
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1242	0.014	-0.007	0.006	0.010	0.000000	0.000000	937.14	-830.02
1	FID	ACIS-I-5	7.24	1242	-0.085	0.052	0.006	0.010	0.000000	0.000000	-1810.37	1066.99
2	FID	ACIS-I-6	7.26	1242	-0.020	0.025	0.007	0.012	0.000000	0.000000	401.40	1712.77
3	GUIDE	335023248	8.95	2483	0.130	-0.049	0.067	0.111	217.634832	34.944512	-763.40	1927.89
4	GUIDE	335414448	7.37	2483	-0.150	-0.098	0.066	0.101	216.992261	35.577204	2136.22	1343.18
5	GUIDE	335417968	9.42	2482	-0.061	0.071	0.165	0.242	217.358149	35.055285	122.28	2132.53
6	GUIDE	335421608	9.23	2483	0.068	-0.018	0.100	0.164	217.691874	36.359353	2321.14	-2128.13
7	GUIDE	335421696	8.94	2482	-0.003	0.079	0.077	0.128	218.045699	35.772449	187.48	-1144.64

## 2.4 Star Slots

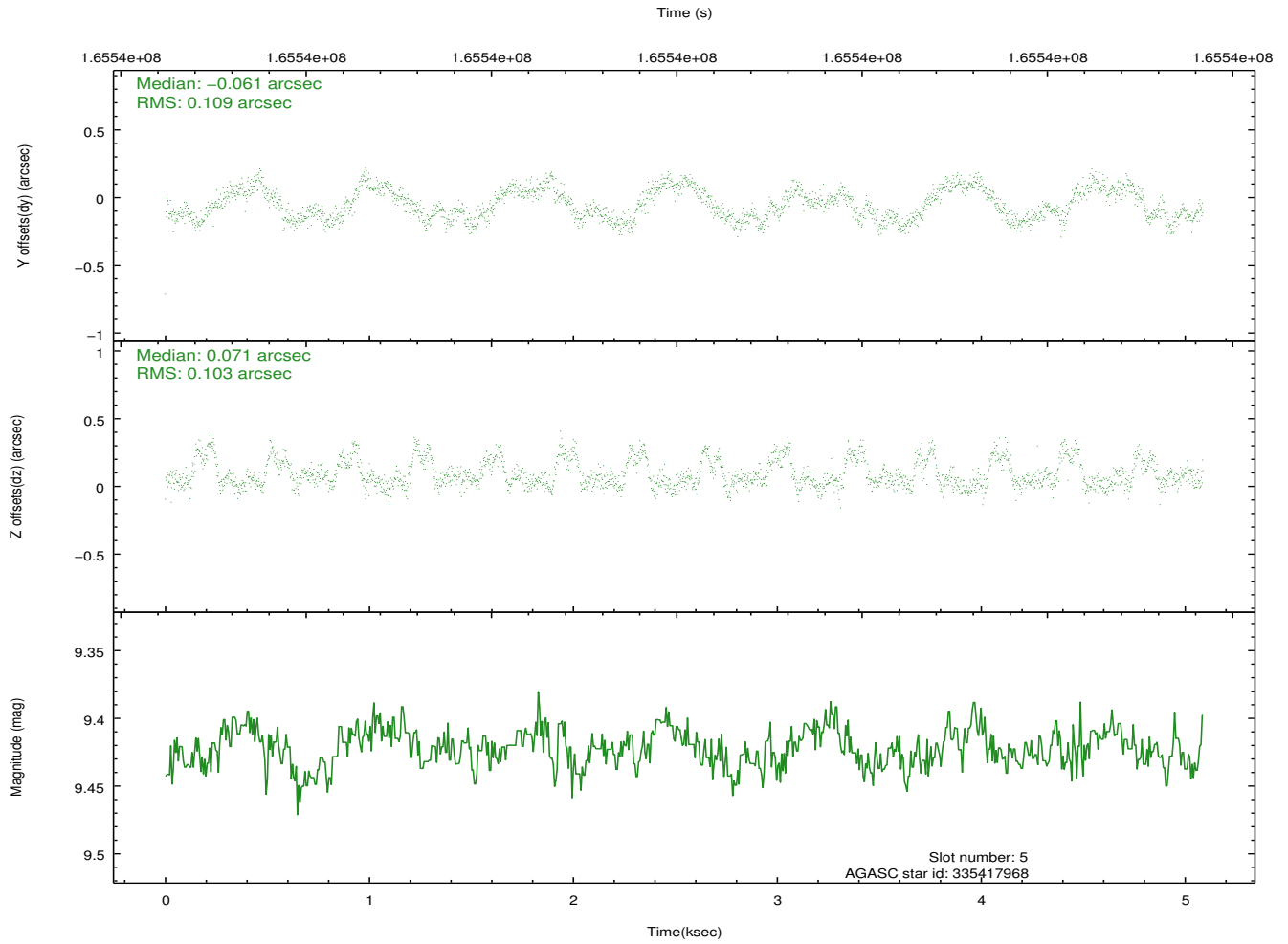
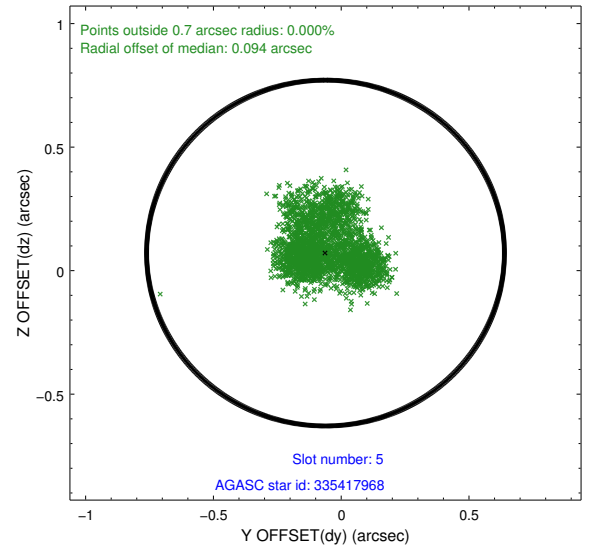
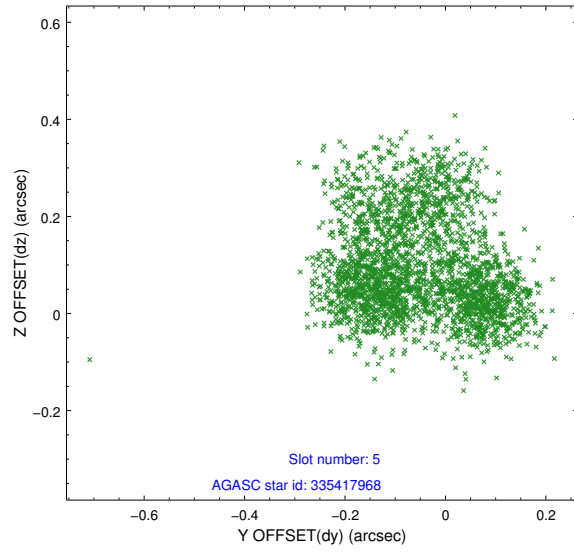
### 2.4.1 Slot 3



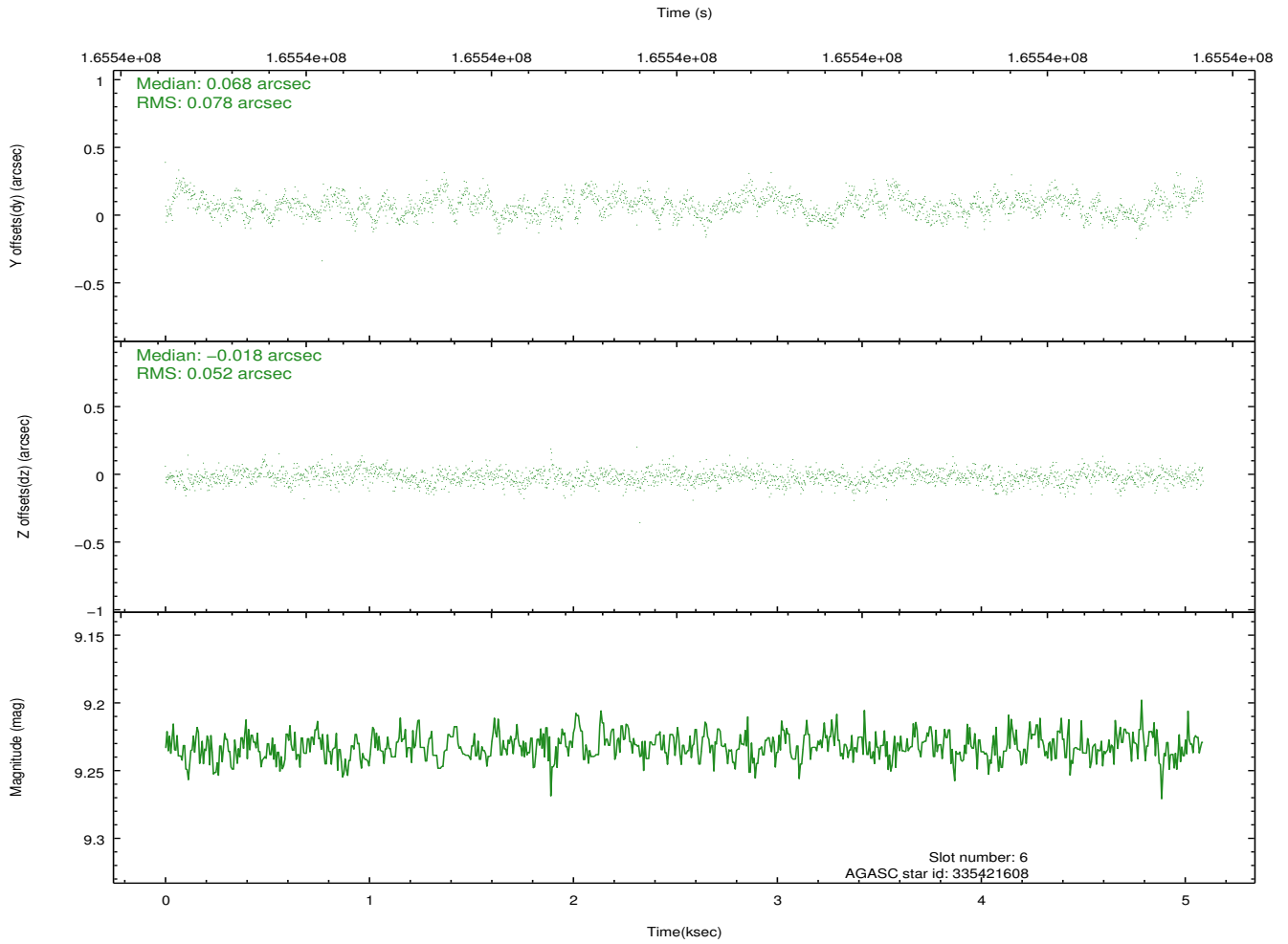
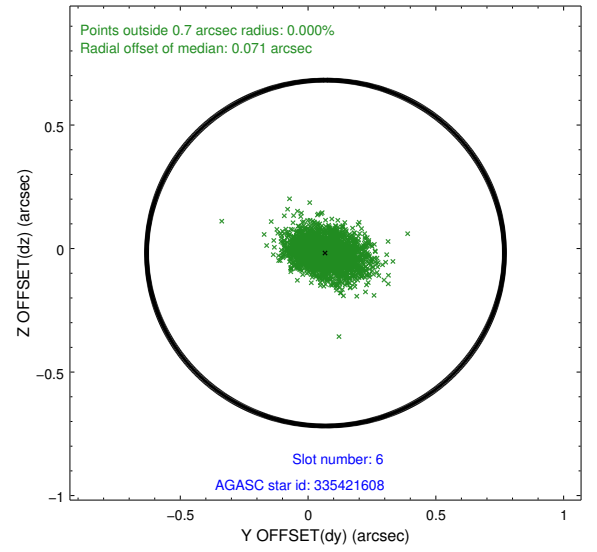
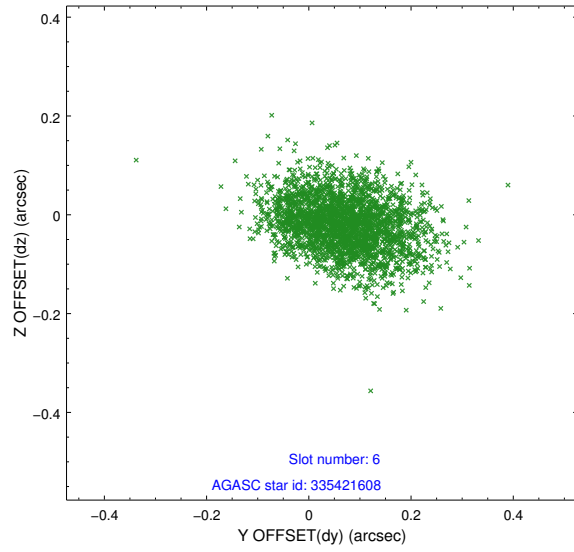
## 2.4.2 Slot 4



### 2.4.3 Slot 5

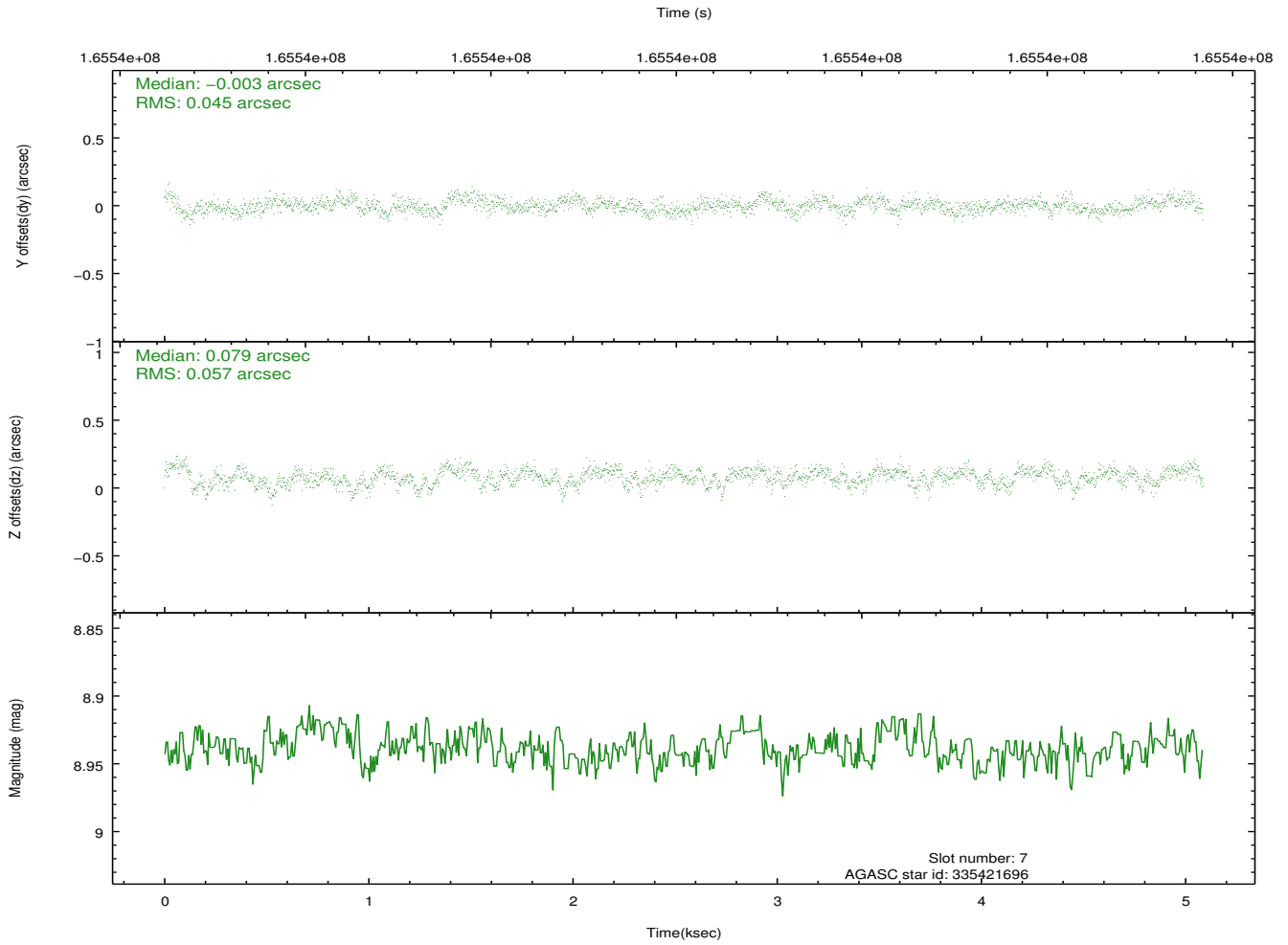
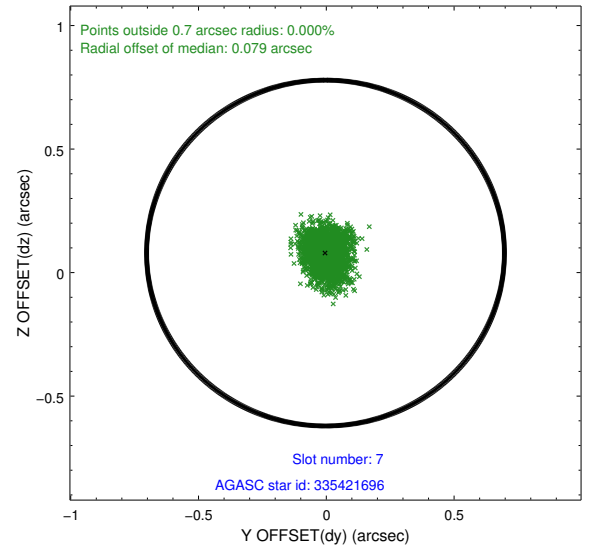
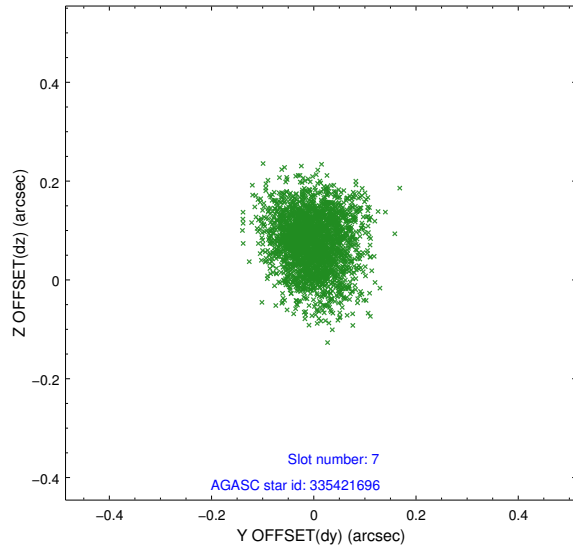


## 2.4.4 Slot 6



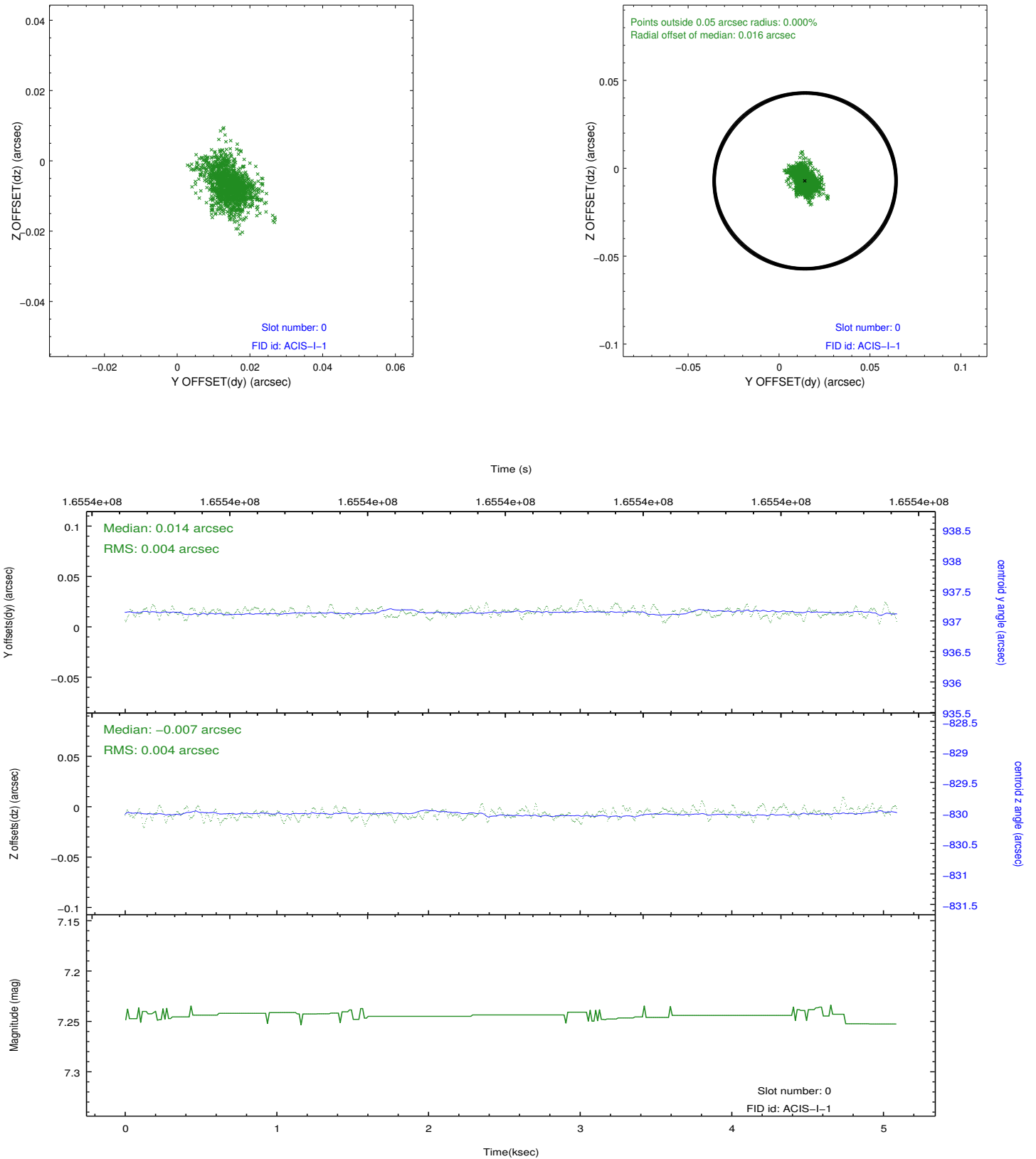


## 2.4.5 Slot 7

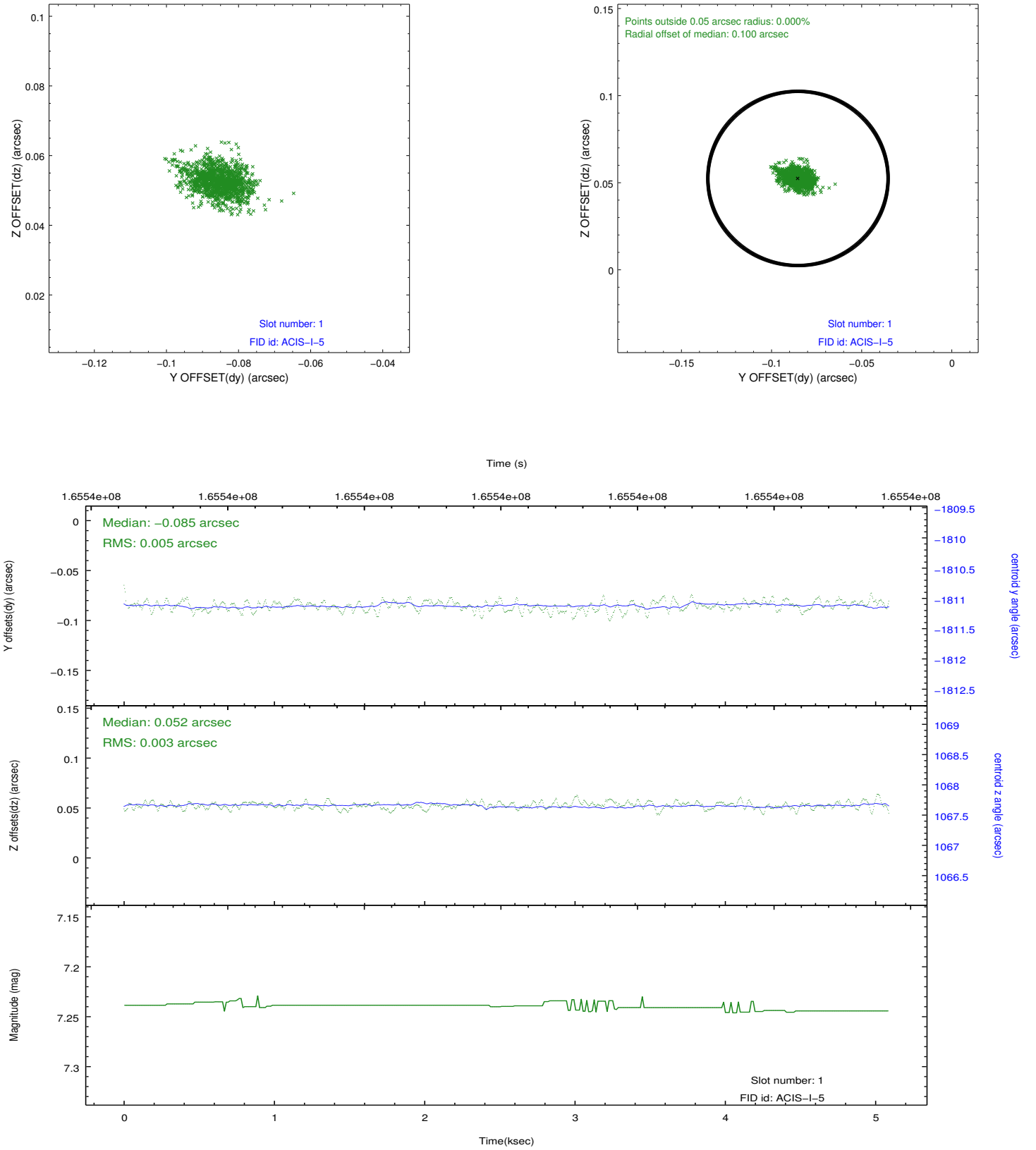


## 2.5 FID Slots

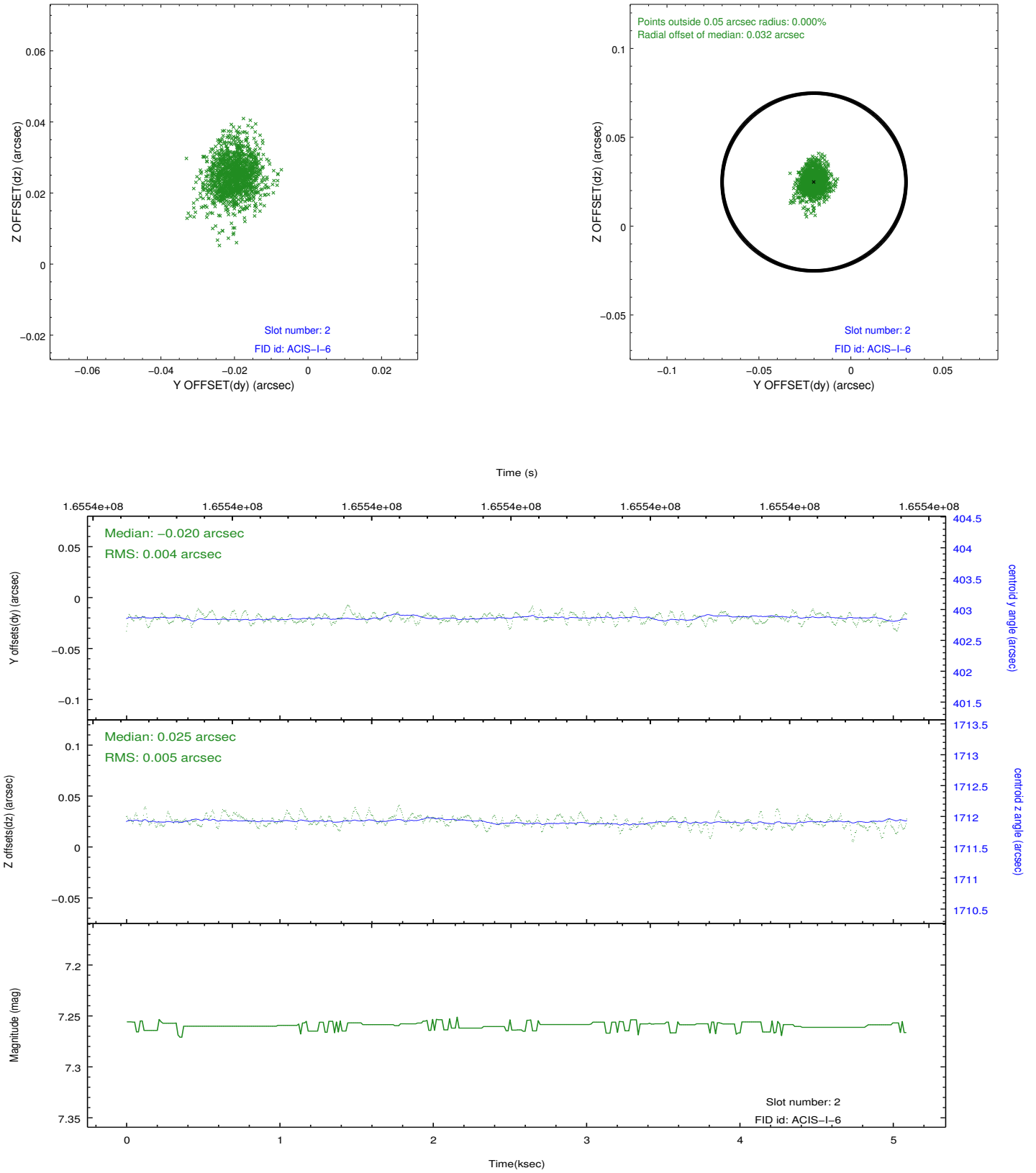
### 2.5.1 Slot 0



## 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)	2012.11.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.674

### A.2 Comments