

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3607 - L2 Version 3  
Chandra X-Ray Center

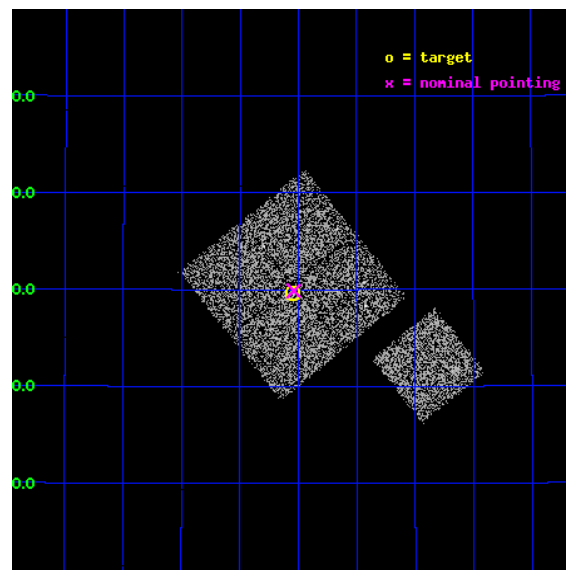
L2 Processing Date : Oct 26 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

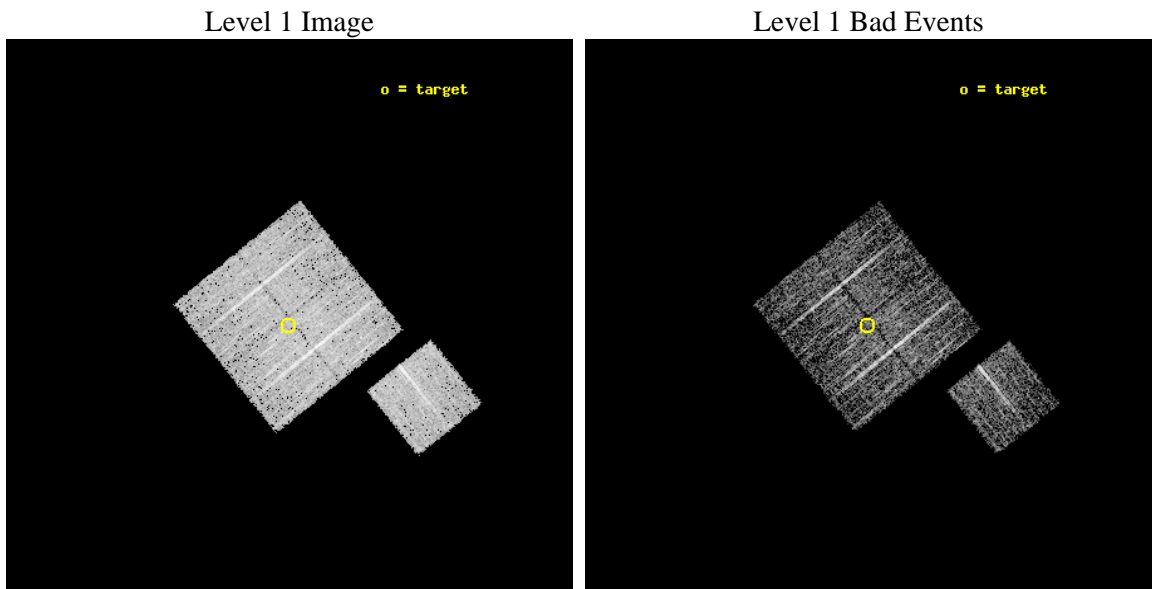
seq_num	900207	Sequence number
obs_id	3607	Observation id
title	CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NOAO FIELD F2	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.38708	Observer's specified target RA [deg]
dec_targ	35.493858	Observer's specified target Dec [deg]
ra_nom	217.38438875495	Nominal RA [deg]
dec_nom	35.497908111758	Nominal Dec [deg]
roll_nom	141.01024089522	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4578.5862466693	Sum of GTIs [s]
livetime	4518.7636466504	Livetime [s]
ontime0	4578.4631266594	Sum of GTIs [s]
ontime1	4575.3631964326	Sum of GTIs [s]
ontime2	4578.545206666	Sum of GTIs [s]
ontime3	4578.5862466693	Sum of GTIs [s]
ontime6	4578.4220866561	Sum of GTIs [s]
l2events	14939	Number of level 2 events



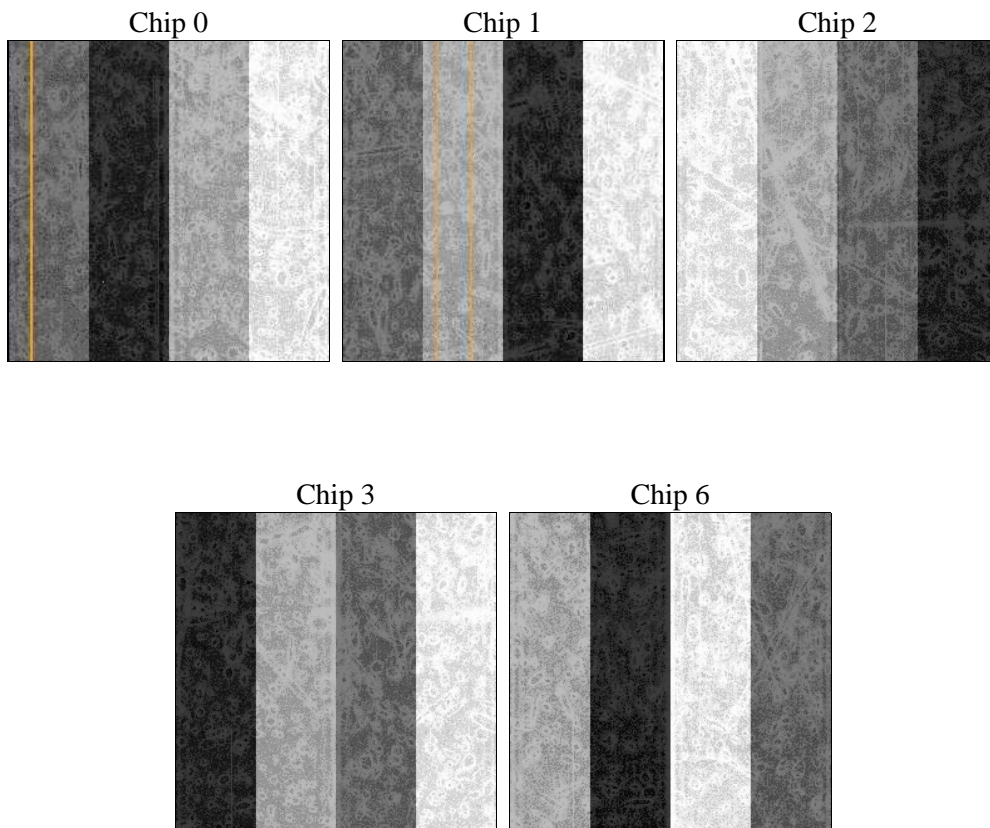
## 2 OBI

### 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	4578.5862466693	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4578.4631266594	Sum of GTIs [s]
date	2012-10-26T01:21:28	Date and time of file creation	ontime1	4575.3631964326	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4578.5452066666	Sum of GTIs [s]
			ontime3	4578.5862466693	Sum of GTIs [s]
			ontime6	4578.4220866561	Sum of GTIs [s]
			l1events	121619	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	23037	22765	26680	25027	24110
rejected events	19533	19305	23235	21658	20460
rejected %	84%	84%	87%	86%	84%

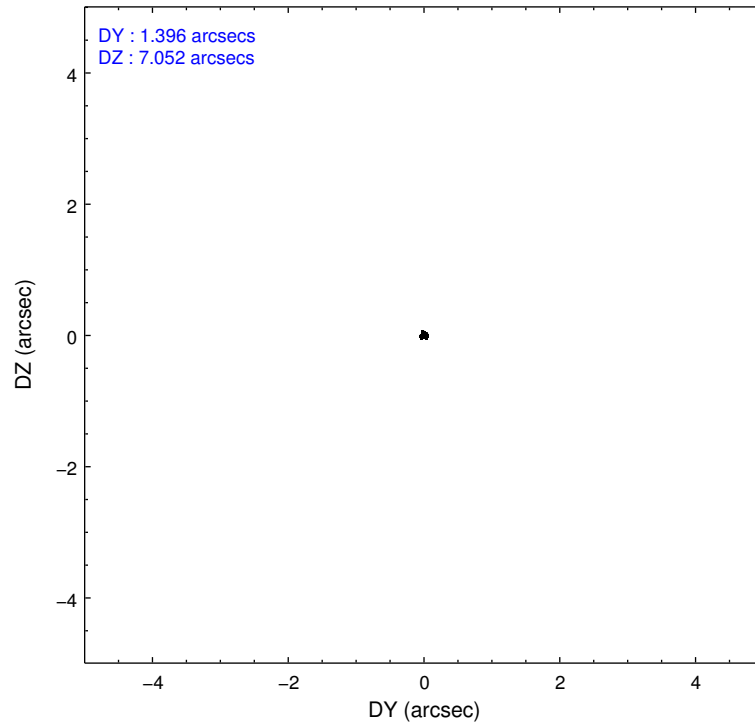
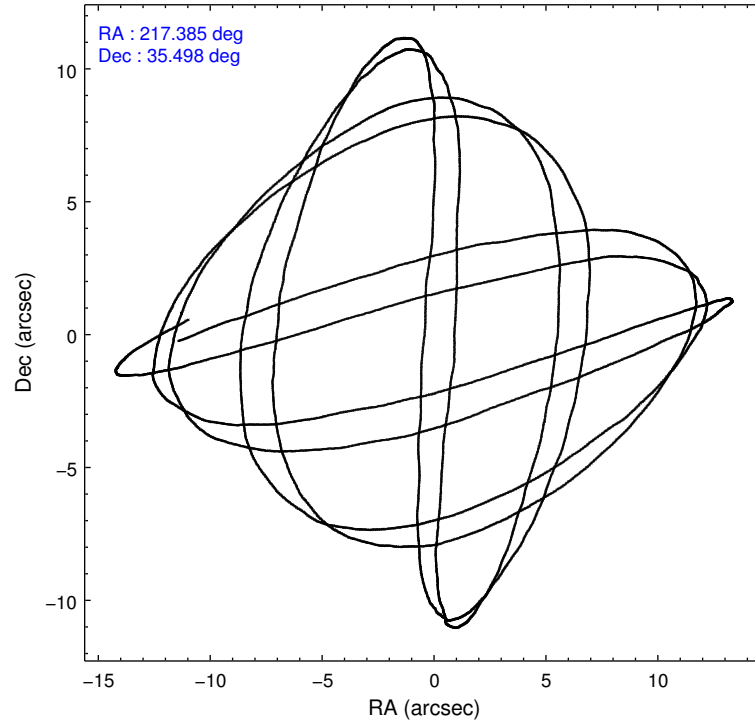
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1653	1505	1645	1562	1787
	7%	6%	6%	6%	7%
grade 1 events	14	15	13	25	10
	0%	0%	0%	0%	0%
grade 2 events	668	679	697	642	651
	2%	2%	2%	2%	2%
grade 3 events	327	355	316	318	313
	1%	1%	1%	1%	1%
grade 4 events	302	338	294	305	299
	1%	1%	1%	1%	1%
grade 5 events	701	728	656	779	707
	3%	3%	2%	3%	2%
grade 6 events	558	584	495	543	605
	2%	2%	1%	2%	2%
grade 7 events	18814	18561	22564	20853	19738
	81%	81%	84%	83%	81%

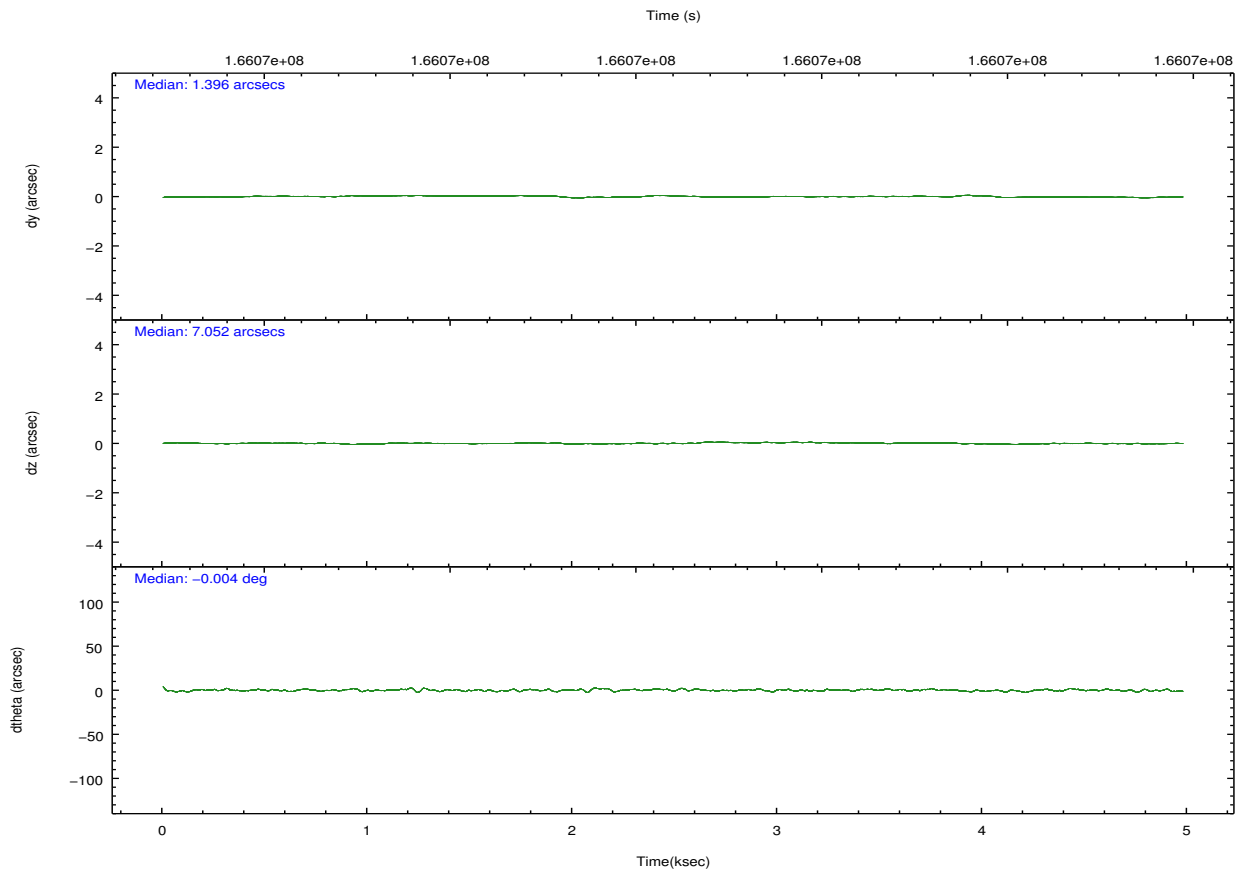
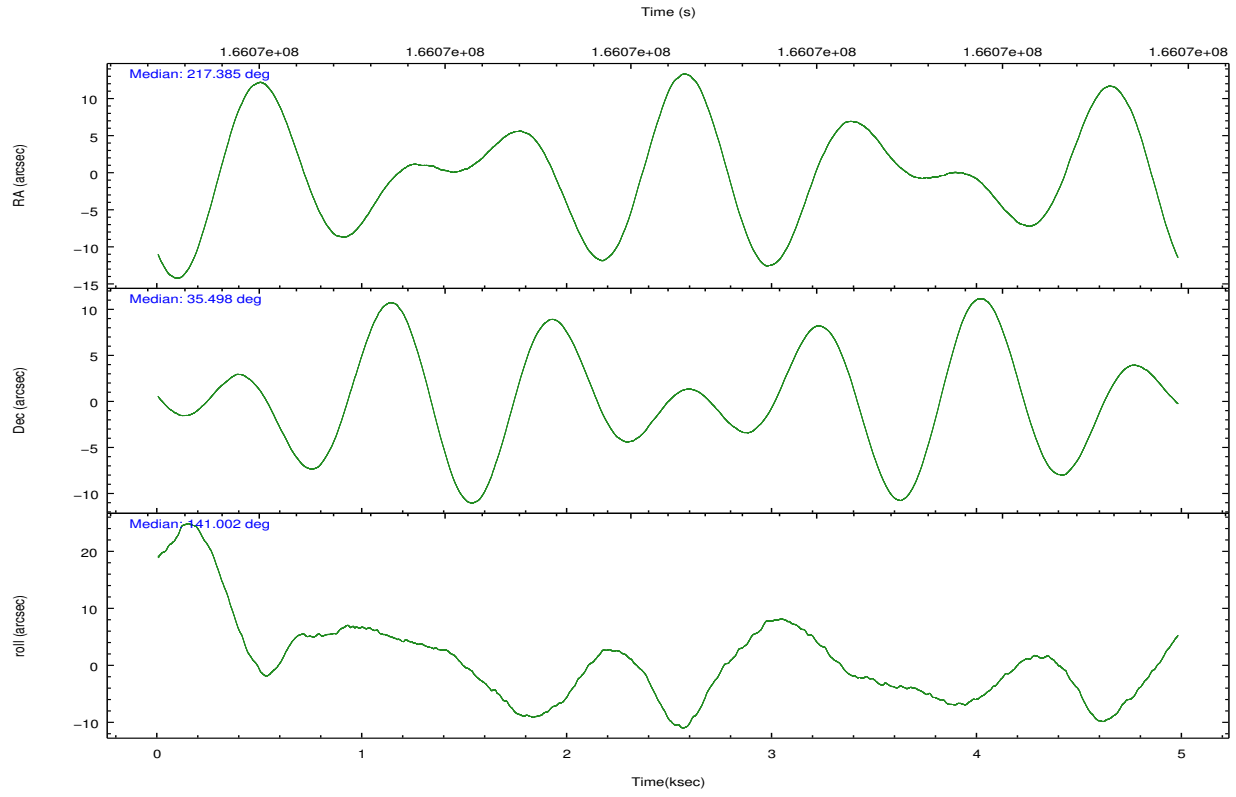


## 2.2 Compared Parameters

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	217.417647	217.3843887549472	Subarray requested	NONE	NONE
[deg] Pointing Dec	35.493776	35.49790811175811	Alternating exposures requested	N	N
[deg] Pointing Roll	140.782255	141.0102408952234	[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)	166065895.184000	166065519.52842			
Observation start date	2003-04-07T01:23:51	2003-04-07T01:18:39			
[s] Observation end time (MET)	166070695.184000	166070829.02864			
Observation end date	2003-04-07T02:43:51	2003-04-07T02:47:09			
Read mode	TIMED	TIMED			

## 2.3 Aspect



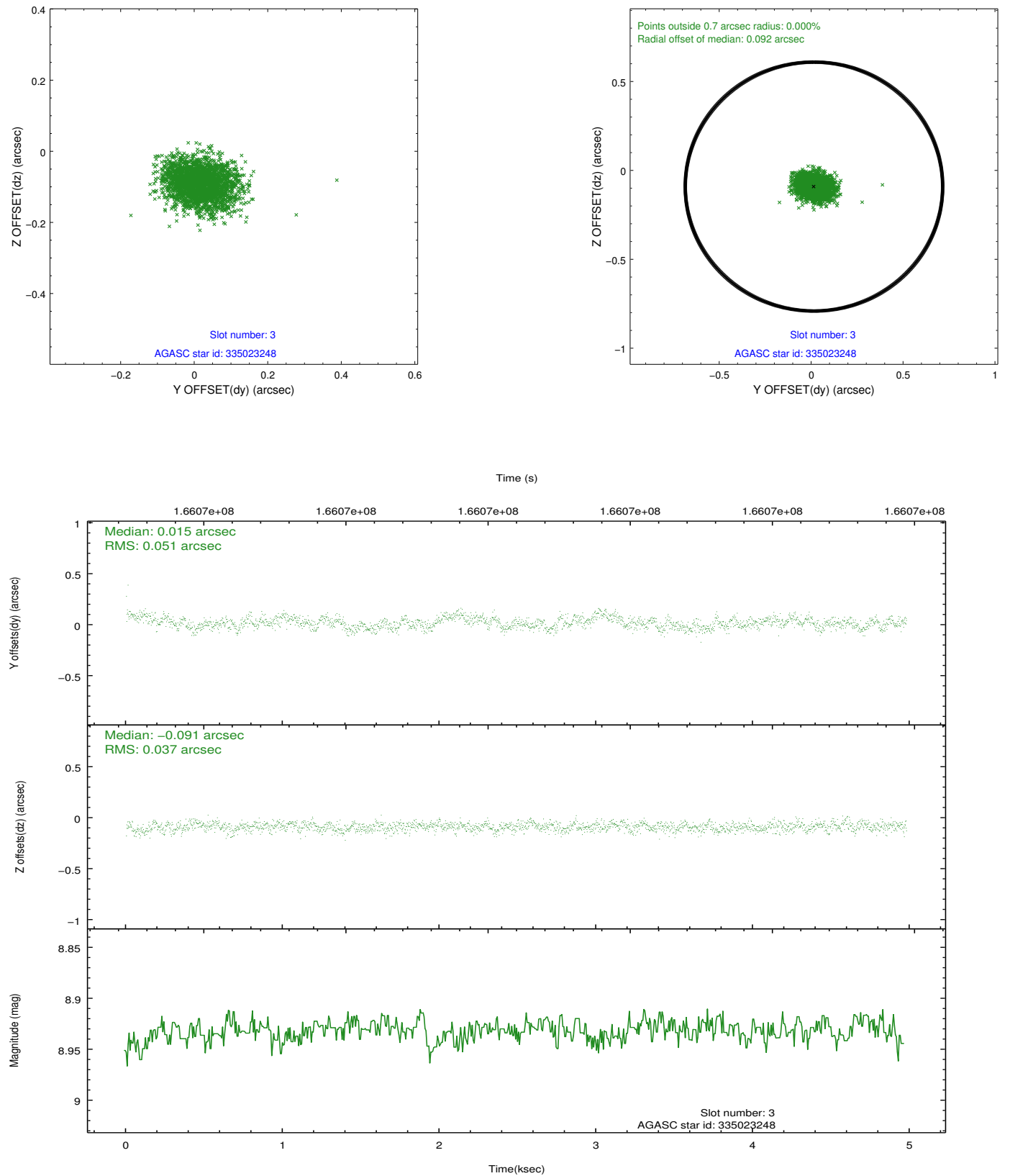


### Slot Statistics

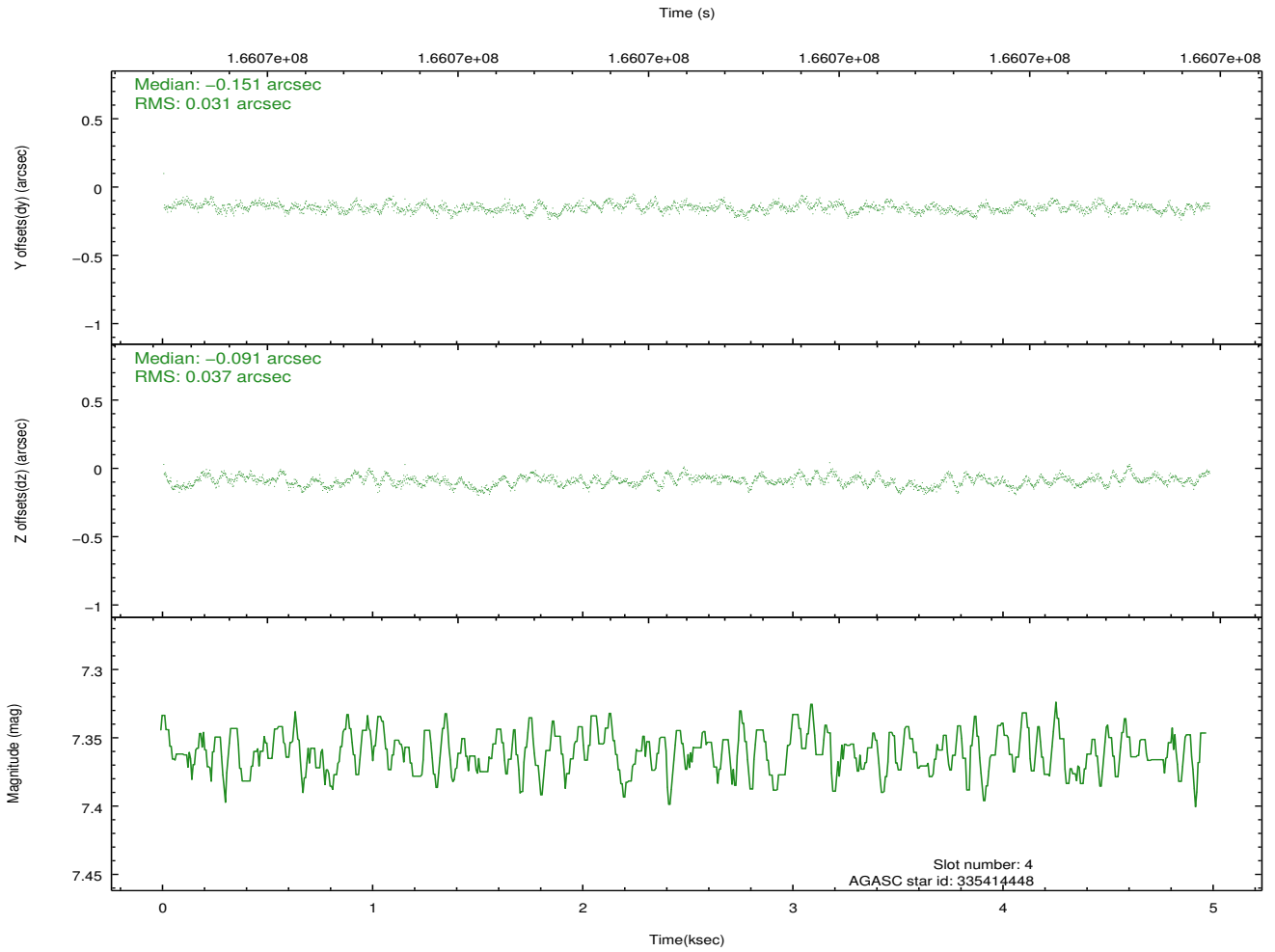
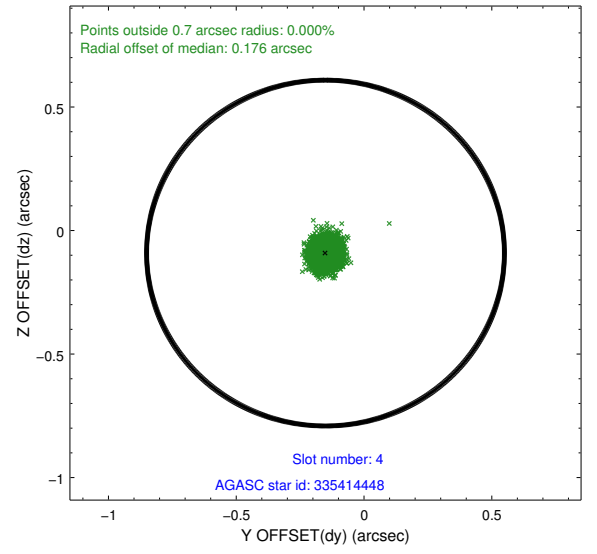
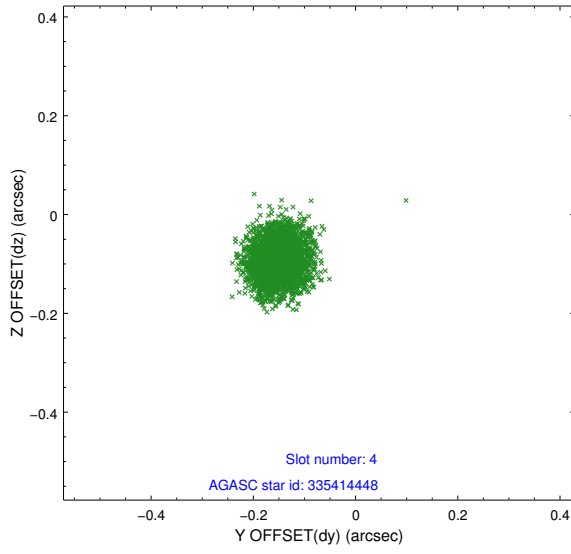
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1214	-0.078	-0.004	0.010	0.015	0.000000	0.000000	938.39	-830.43
1	FID	ACIS-I-2	7.16	1214	-0.061	-0.017	0.007	0.011	0.000000	0.000000	-754.99	-837.54
2	FID	ACIS-I-4	7.18	1214	0.040	0.088	0.007	0.011	0.000000	0.000000	2157.79	1068.89
3	GUIDE	335023248	8.93	2429	0.015	-0.091	0.067	0.107	217.634832	34.944512	-1746.28	1125.93
4	GUIDE	335414448	7.36	2424	-0.151	-0.091	0.052	0.080	216.992261	35.577204	1155.46	553.44
5	GUIDE	335417968	9.40	2429	0.054	0.047	0.093	0.156	217.358149	35.055285	-861.67	1334.04
6	GUIDE	335421696	8.95	2429	0.011	0.031	0.076	0.122	218.045699	35.772449	-783.33	-1941.12
7	GUIDE	335422272	9.49	2425	0.066	0.107	0.093	0.154	217.586135	35.522660	-316.42	-393.82

## 2.4 Star Slots

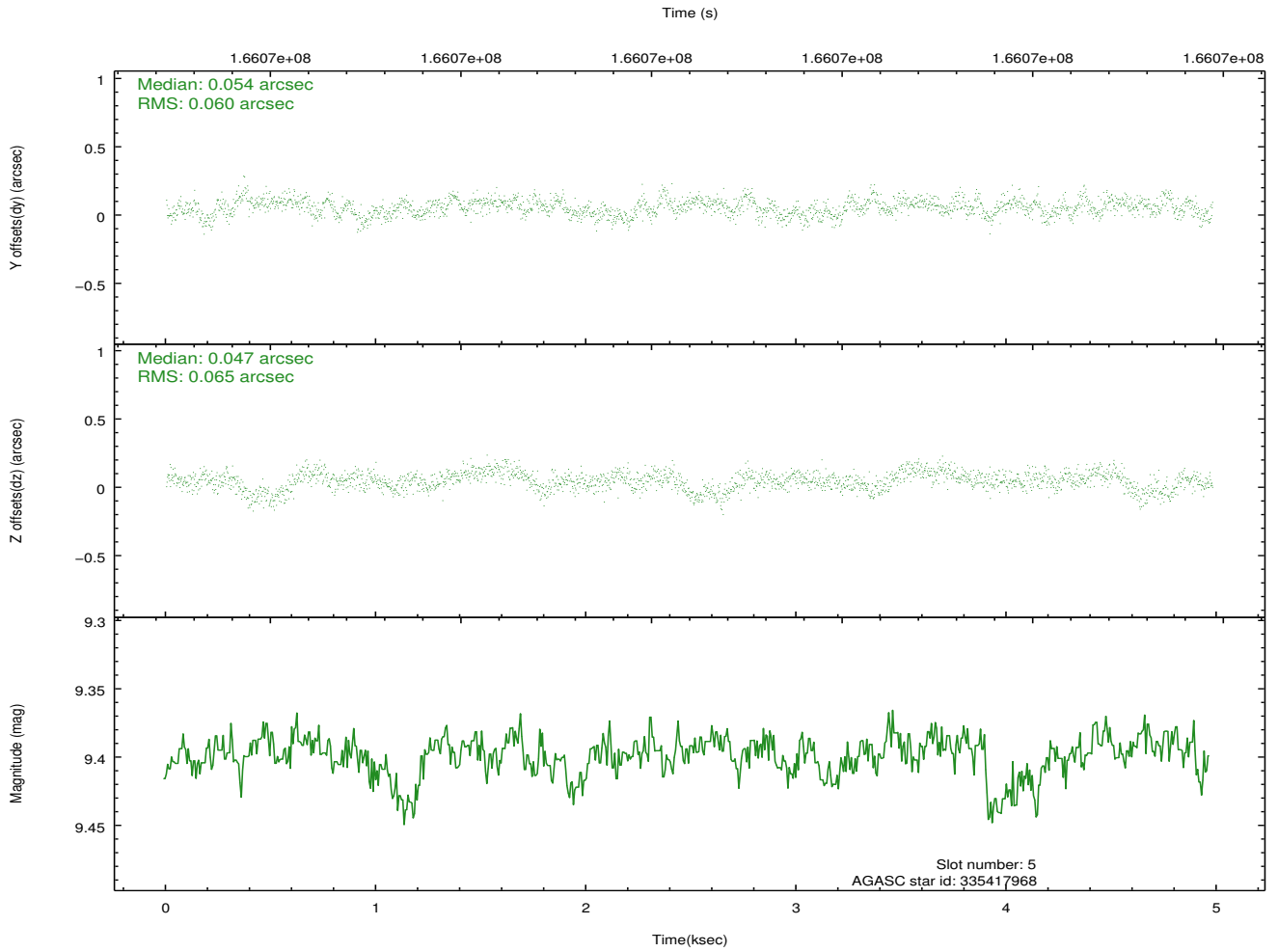
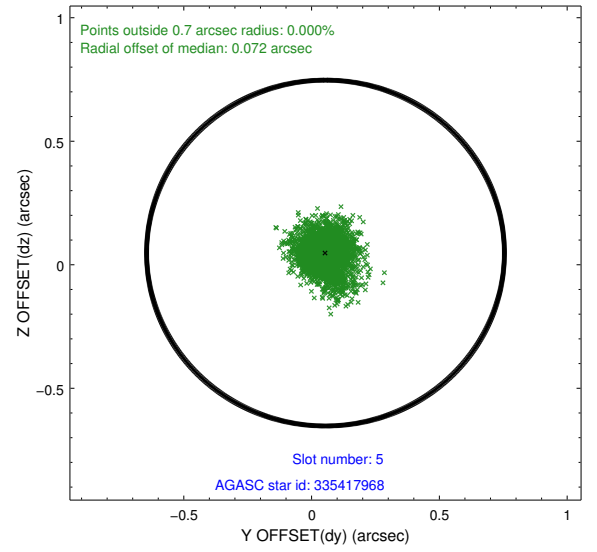
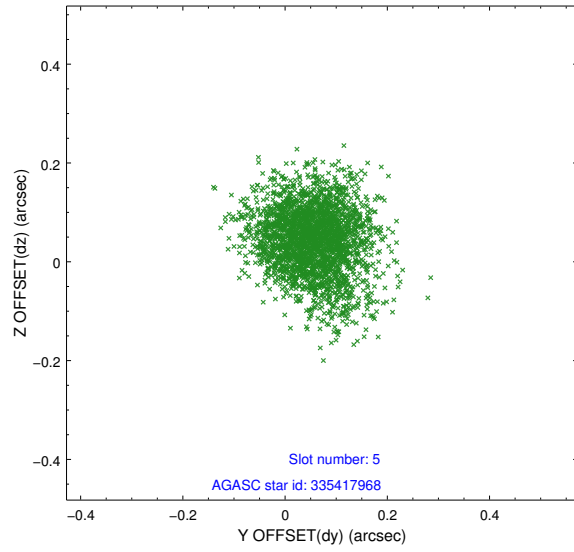
### 2.4.1 Slot 3



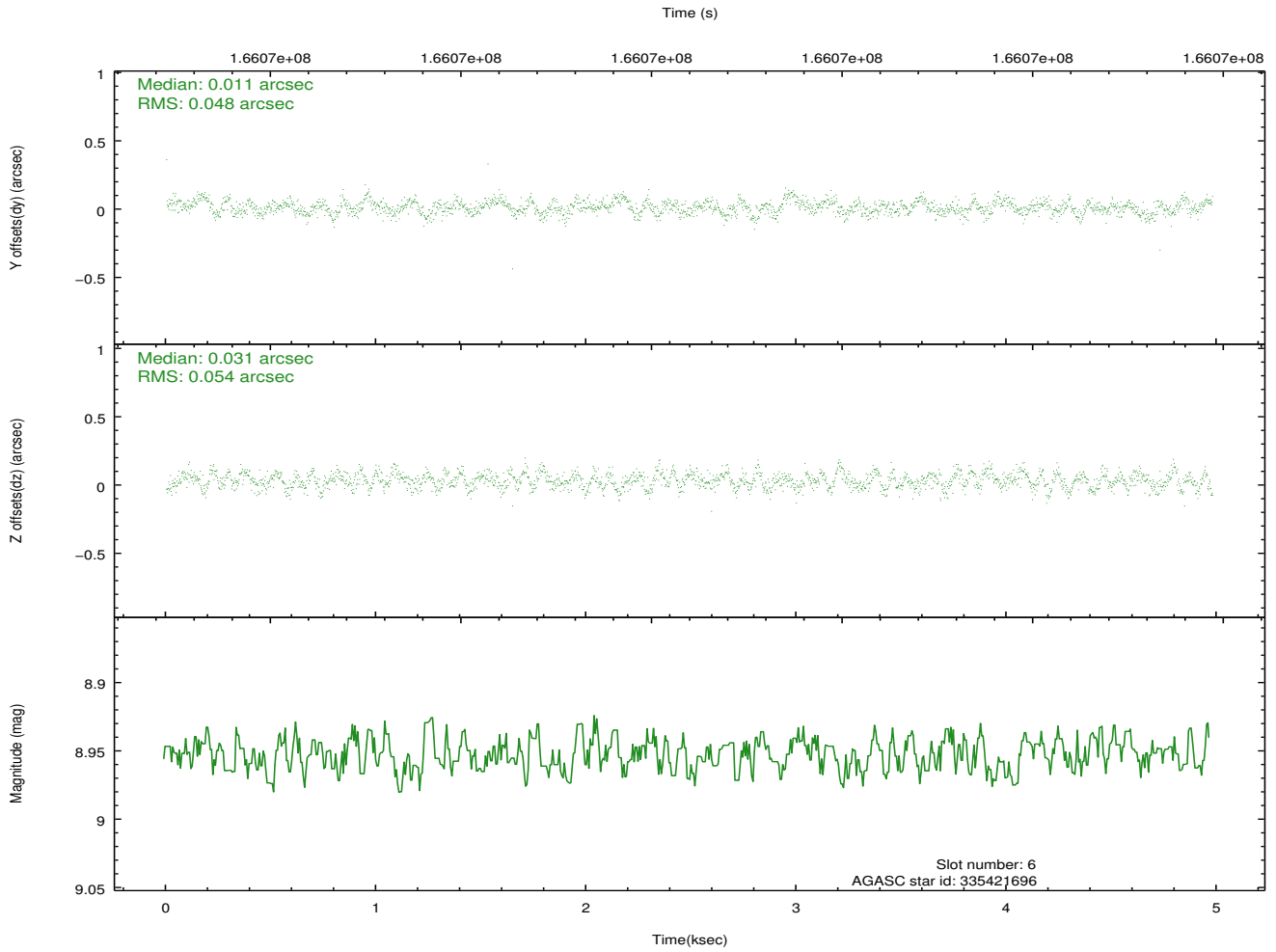
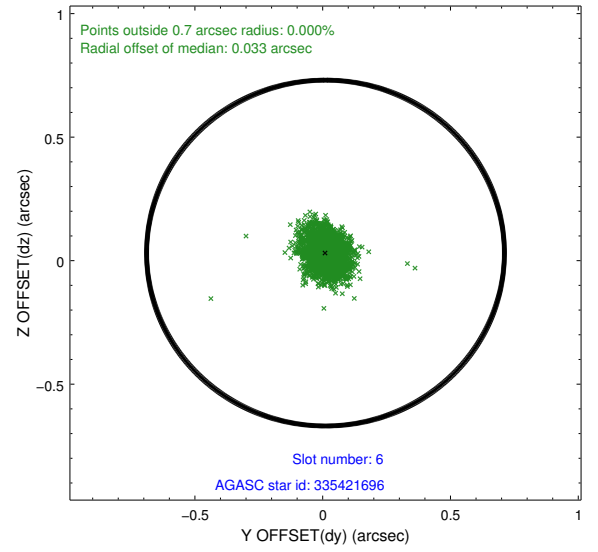
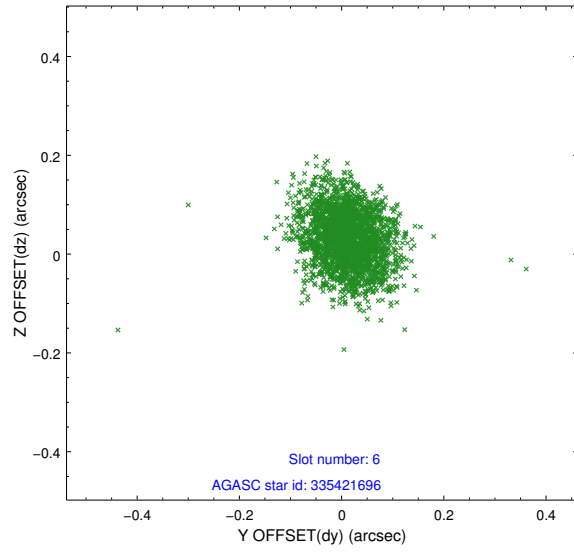
## 2.4.2 Slot 4



### 2.4.3 Slot 5

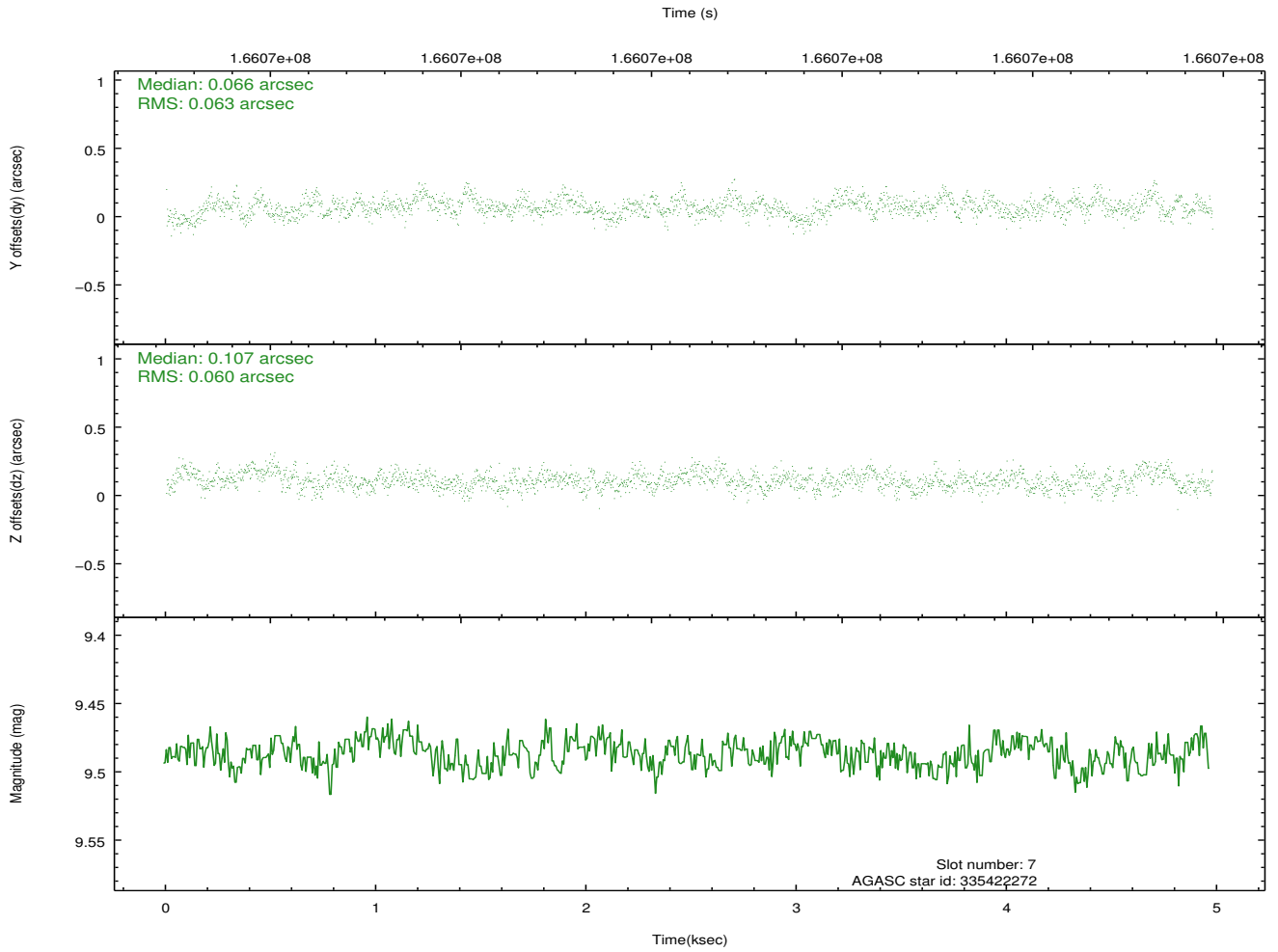
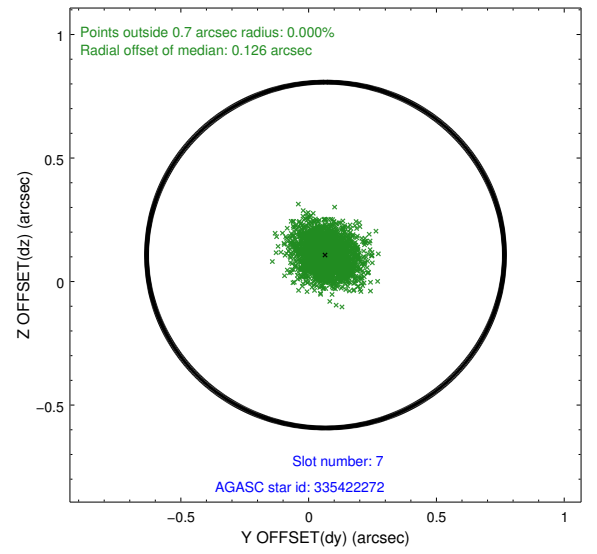
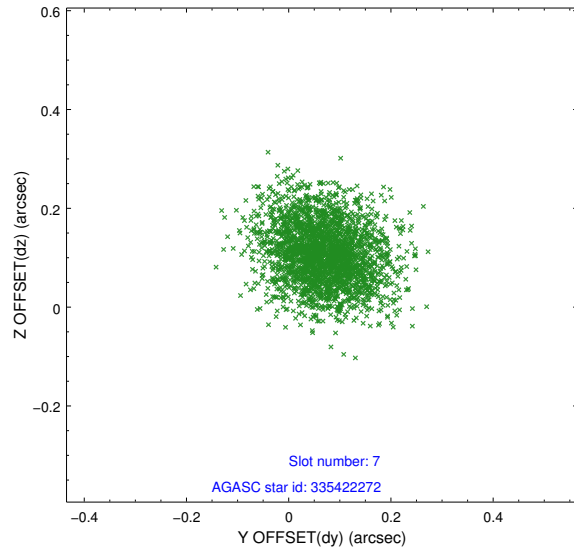


## 2.4.4 Slot 6



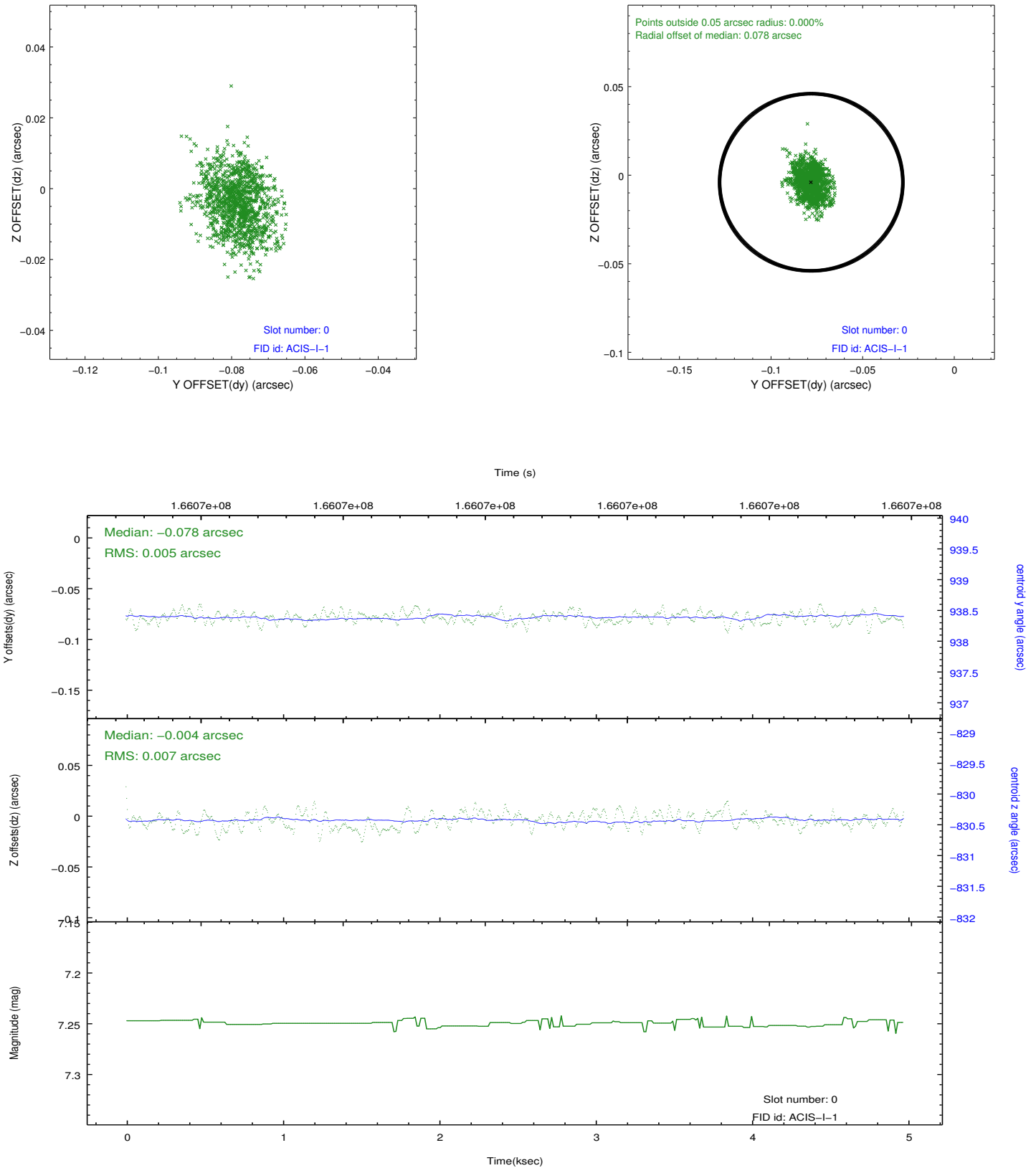


## 2.4.5 Slot 7

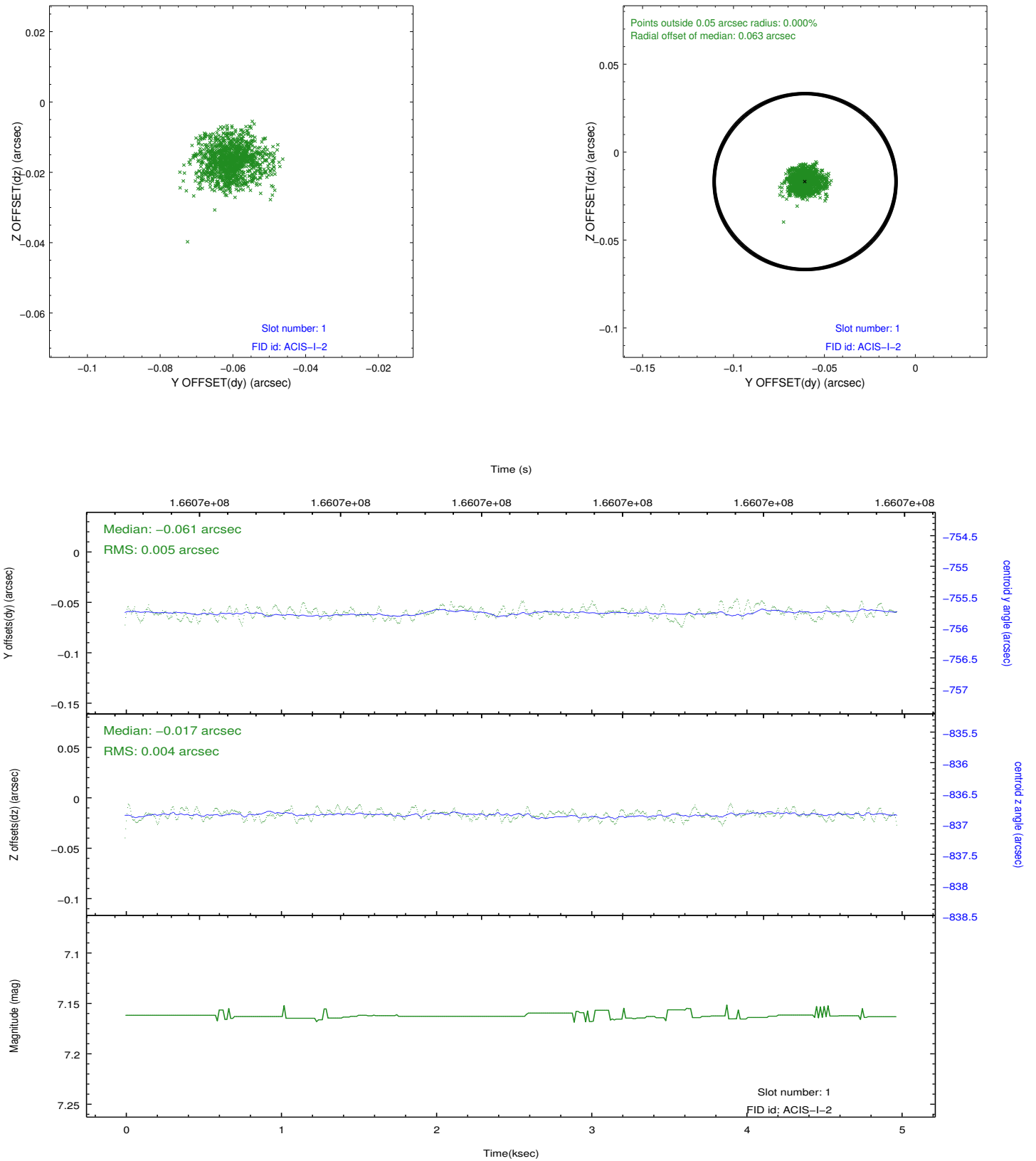


## 2.5 FID Slots

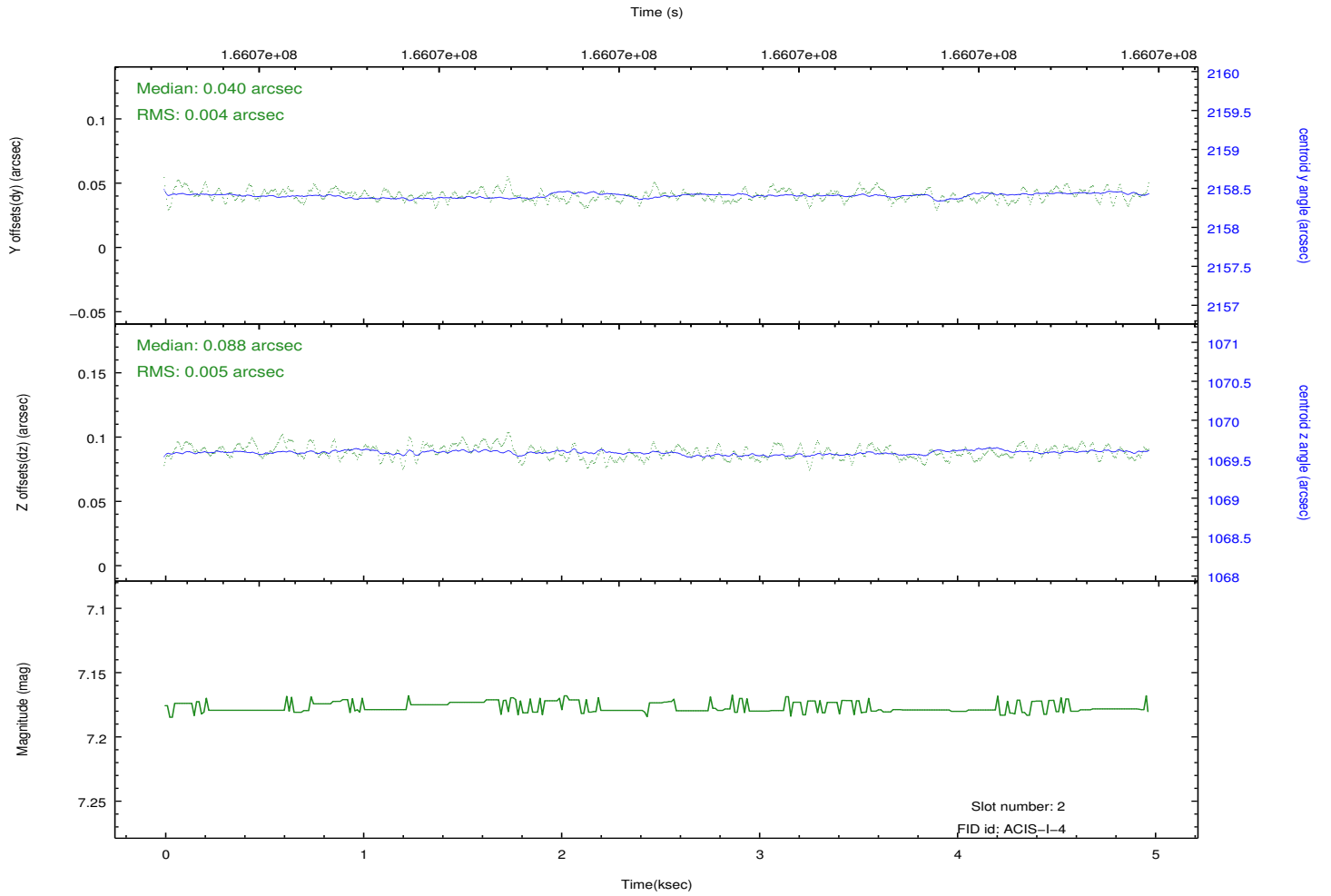
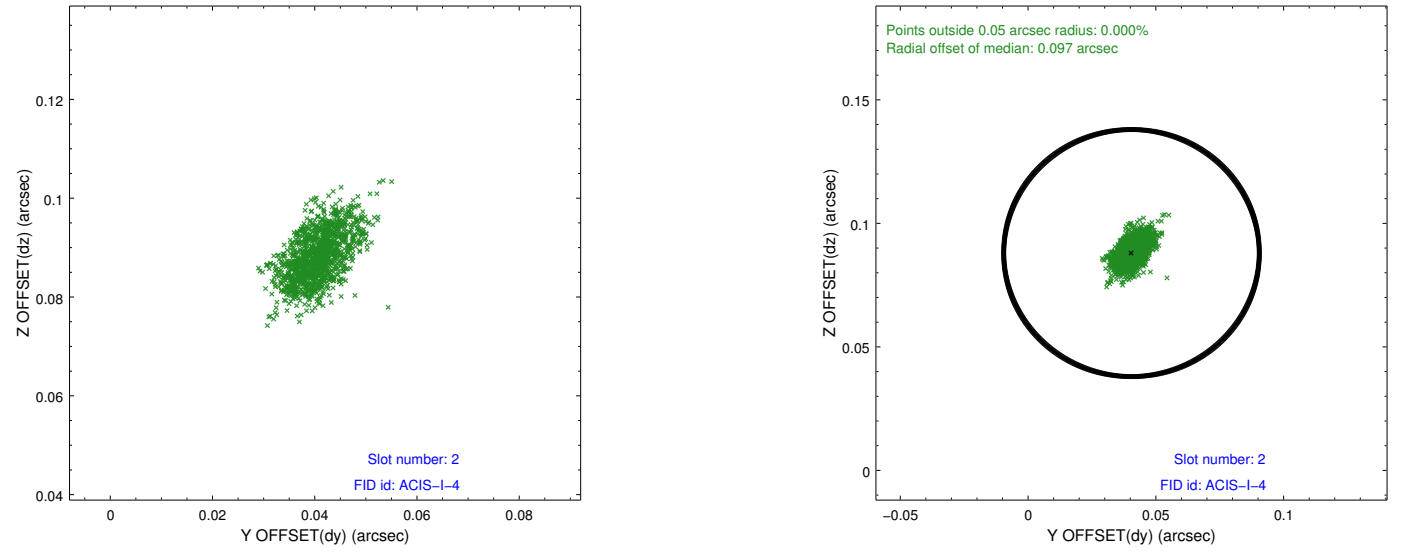
### 2.5.1 Slot 0



## 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	4.579

### A.2 Comments