

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 13667 - L2 Version 1  
Chandra X-Ray Center

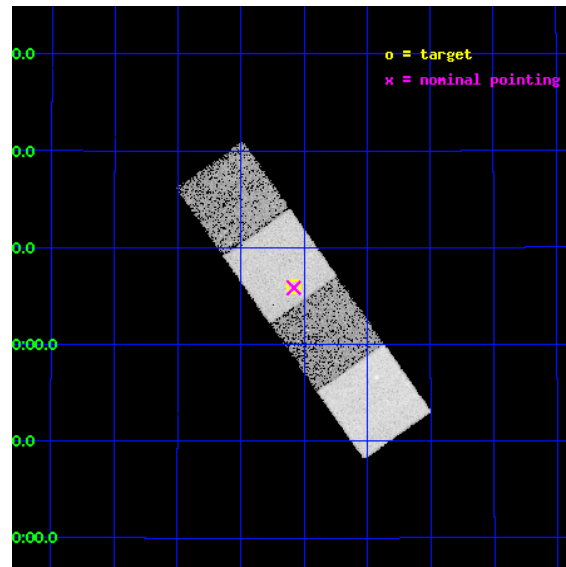
L2 Processing Date : Sep 1 2012

## 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

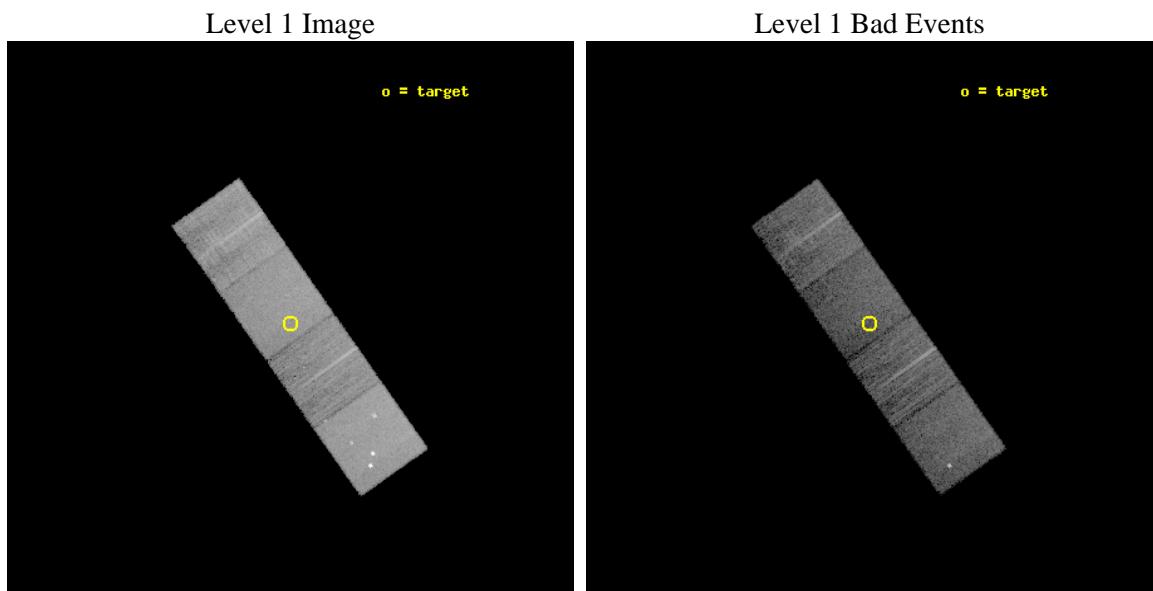
seq_num	200817	Sequence number
obs_id	13667	Observation id
title	Testing Star-Planet Interaction in Solar Analogs	Proposal title
observer	Brendan Miller	Principal investigator
object	HD 188015	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	298.01875	Observer's specified target RA [deg]
dec_targ	28.100389	Observer's specified target Dec [deg]
ra_nom	298.02001813877	Nominal RA [deg]
dec_nom	28.097582754949	Nominal Dec [deg]
roll_nom	234.80834718113	Nominal Roll [deg]
revision	1	Processing version of data
ontime	13066.500100493	Sum of GTIs [s]
livetime	12895.776657263	Livetime [s]
ontime5	13066.500100493	Sum of GTIs [s]
ontime6	13066.500100493	Sum of GTIs [s]
ontime7	13066.500100493	Sum of GTIs [s]
ontime8	13066.500100493	Sum of GTIs [s]
l2events	107664	Number of level 2 events



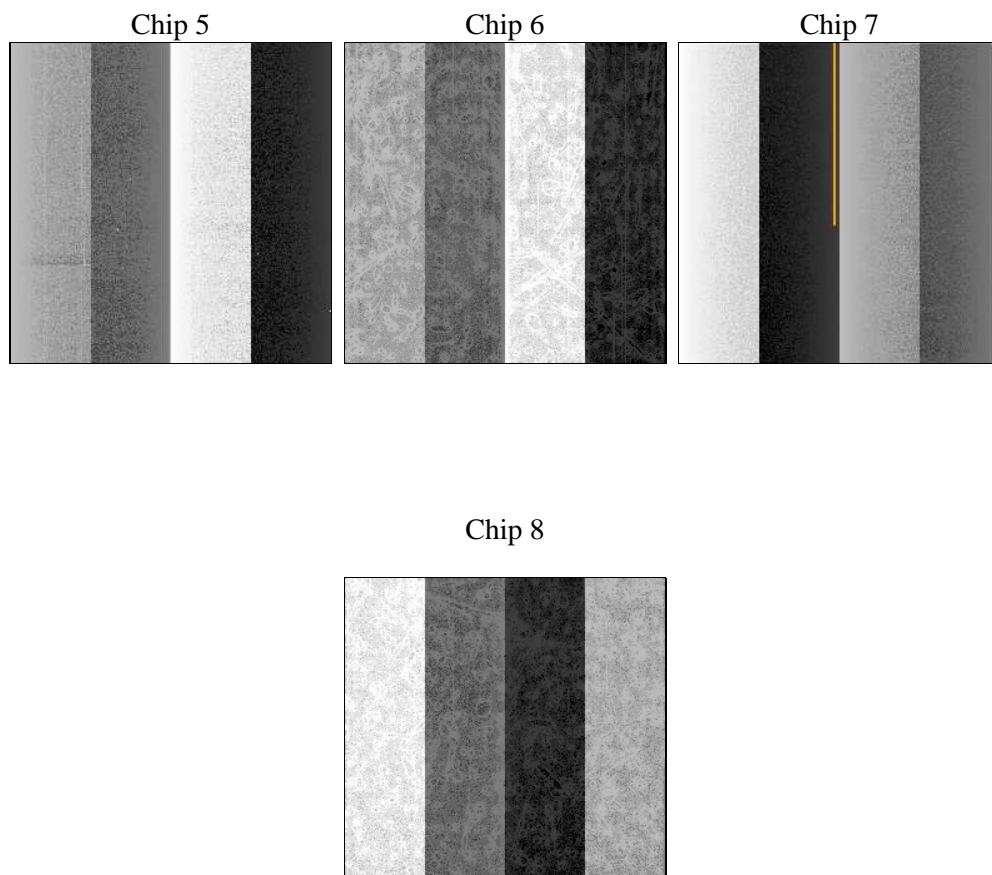
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	13000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	13066.500100493	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime5	13066.500100493	Sum of GTIs [s]
date	2012-09-01T18:24:06	Date and time of file creation	ontime6	13066.500100493	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	13066.500100493	Sum of GTIs [s]
			ontime8	13066.500100493	Sum of GTIs [s]
			l1events	374081	Number of level 1 events

### 2.1.4 Events

	<b>ccd 5</b>	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
level 1 events	121117	68415	92772	91777
rejected events	59362	59842	52014	67675
rejected %	49%	87%	56%	73%

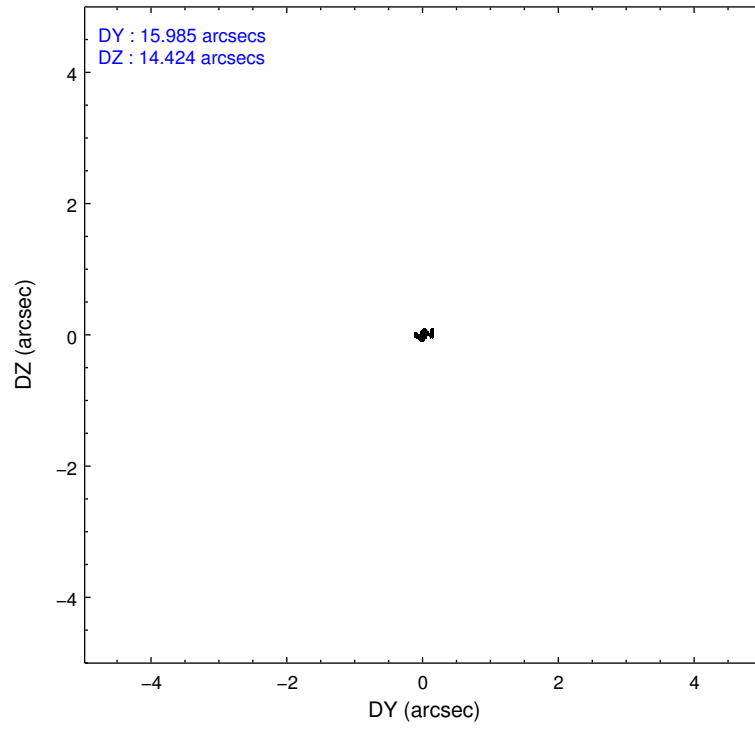
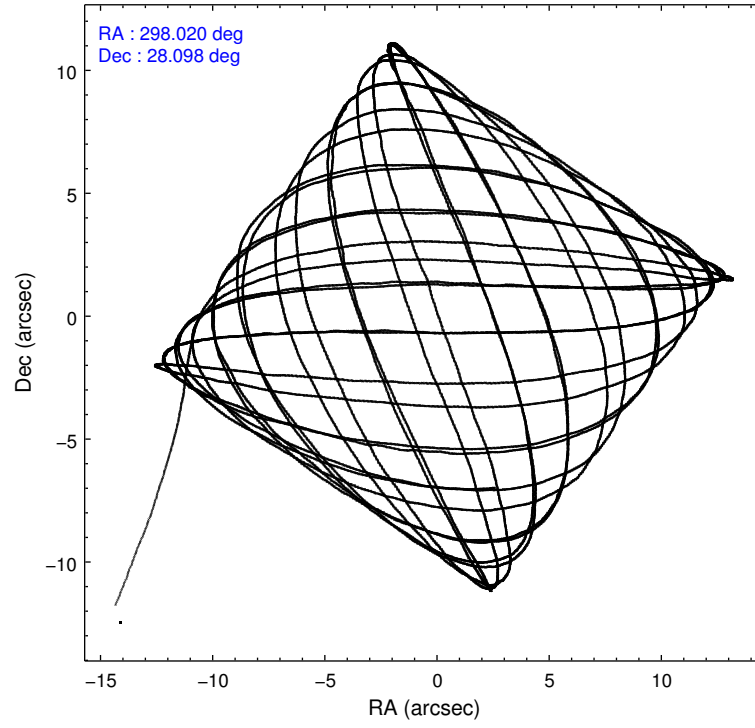
	<b>ccd 5</b>	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
grade 0 events	10485	3125	3582	7038
	8%	4%	3%	7%
grade 1 events	1195	23	110	57
	0%	0%	0%	0%
grade 2 events	17887	1887	8330	5518
	14%	2%	8%	6%
grade 3 events	1918	785	3536	2554
	1%	1%	3%	2%
grade 4 events	1856	846	3394	2367
	1%	1%	3%	2%
grade 5 events	8125	3492	9412	5160
	6%	5%	10%	5%
grade 6 events	29628	1934	21948	6630
	24%	2%	23%	7%
grade 7 events	50023	56323	42460	62453
	41%	82%	45%	68%

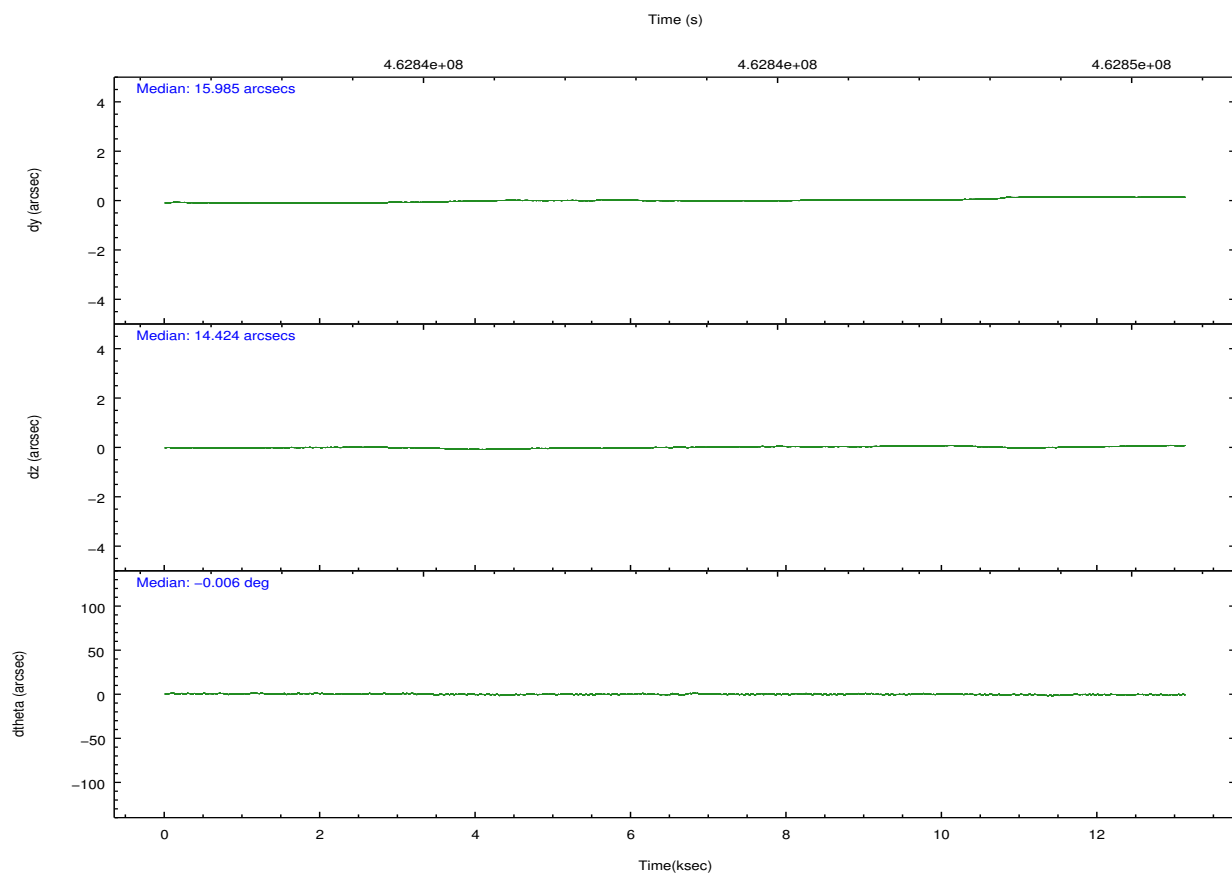
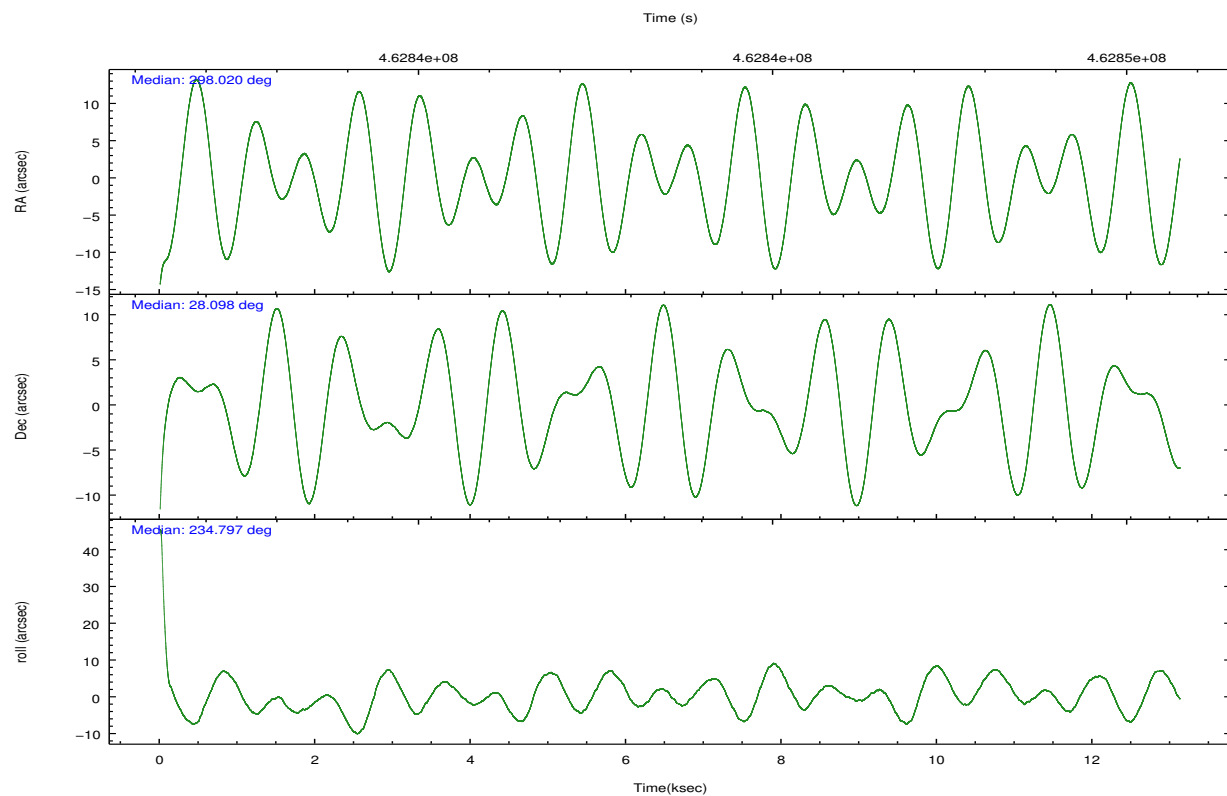


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	298.022441	298.0200181387697	CCD I2 on	N	N
[deg] Pointing Dec	28.124850	28.0975827549488	CCD I3 on	N	N
[deg] Pointing Roll	234.650532	234.8083471811269	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O3	Y
[s] Observation start time (MET)	462837125.184000	462835375.887	CCD S5 on	N	N
Observation start date	2012-08-31T21:50:58	2012-08-31T21:22:55	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	462850125.184000	462851153.71284	On-chip summing requested	N	N
Observation end date	2012-09-01T01:27:38	2012-09-01T01:45:53	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



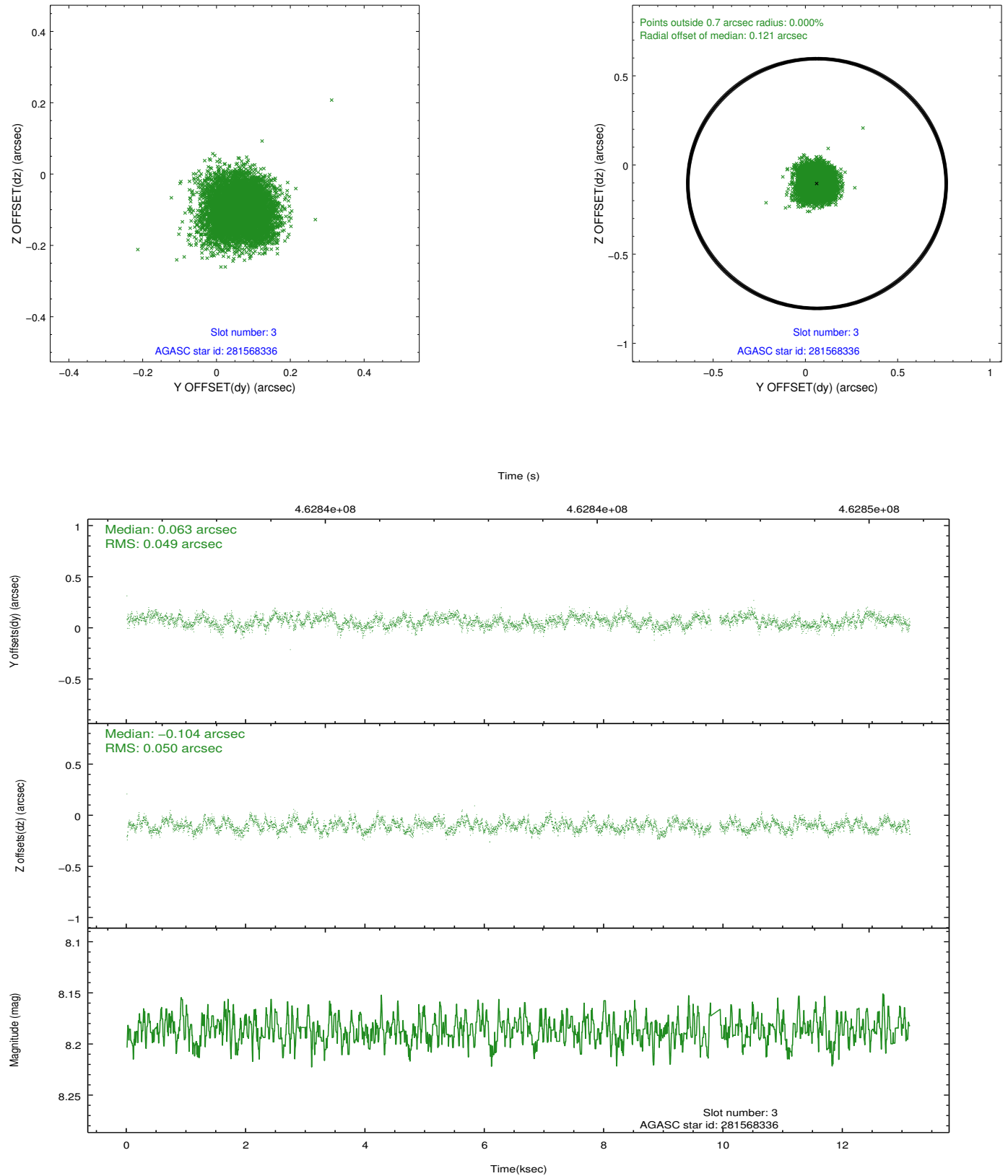


### Slot Statistics

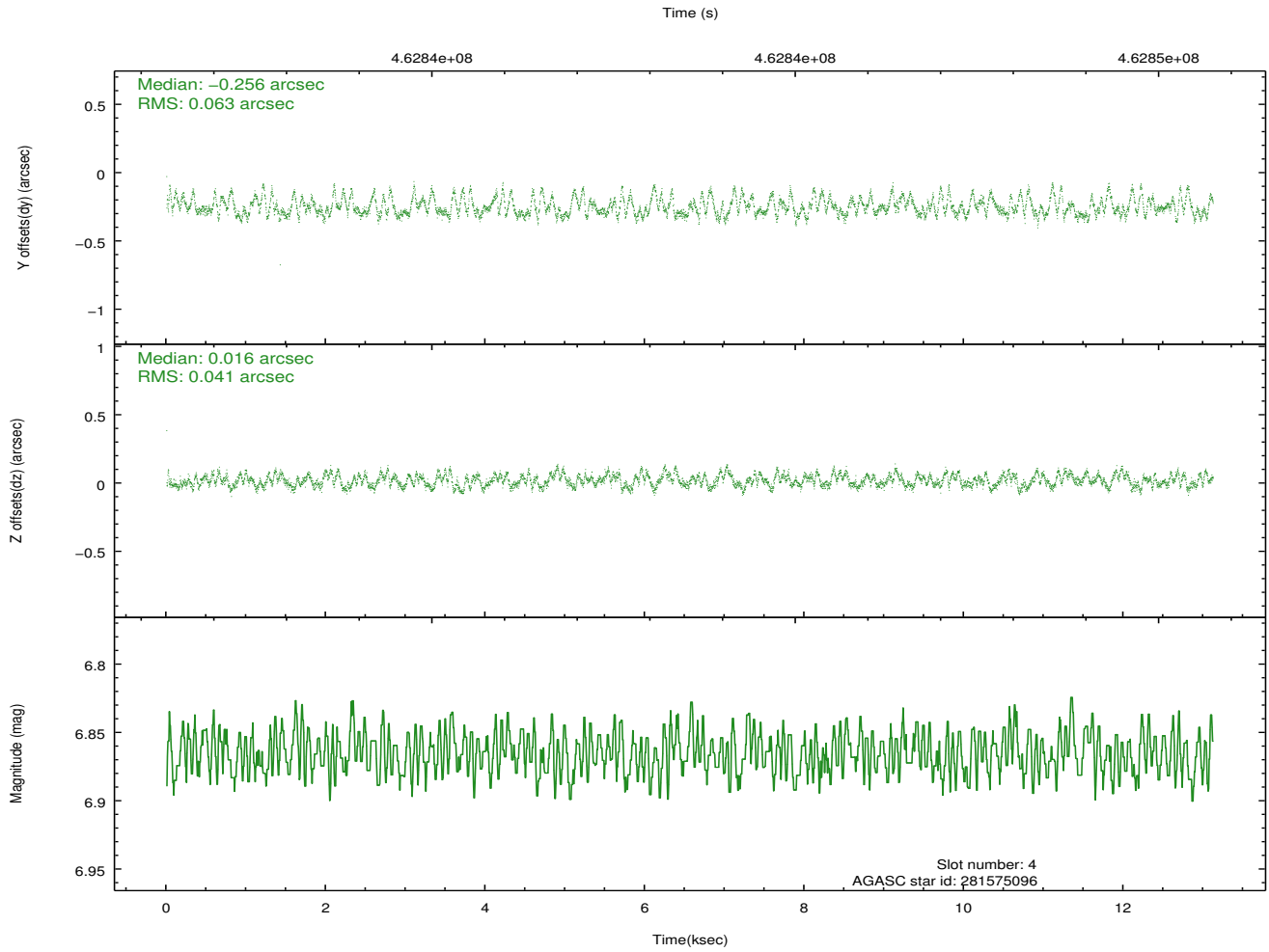
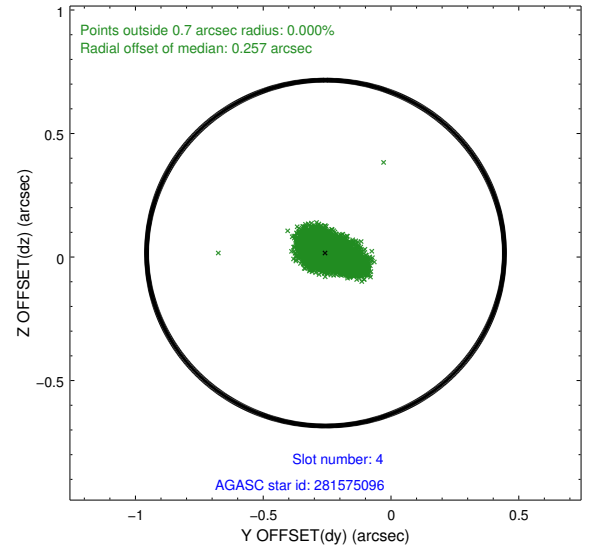
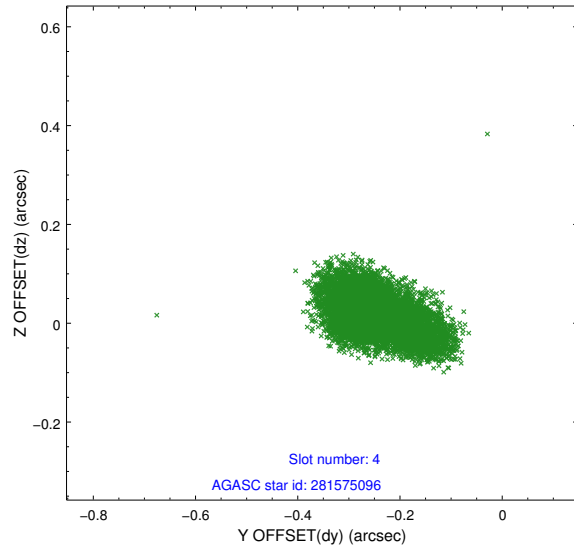
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.10	3201	0.030	-0.024	0.007	0.012	0.000000	0.000000	927.09	-1731.38
1	FID	ACIS-S-4	7.11	3201	0.187	0.006	0.007	0.011	0.000000	0.000000	2144.83	172.44
2	FID	ACIS-S-5	7.14	3201	-0.244	0.030	0.007	0.012	0.000000	0.000000	-1821.61	166.42
3	GUIDE	281568336	8.19	6329	0.063	-0.104	0.075	0.116	297.597035	27.977992	1213.03	-797.69
4	GUIDE	281575096	6.87	6402	-0.256	0.016	0.077	0.136	298.316482	28.099603	-467.03	813.86
5	GUIDE	282084656	9.19	6380	0.167	0.144	0.109	0.178	297.710188	28.599607	-823.59	-1793.99
6	GUIDE	282100168	8.73	6396	0.012	0.078	0.080	0.134	298.922355	28.220174	-1940.45	2123.63
7	GUIDE	282113016	8.58	6392	0.008	-0.128	0.092	0.153	297.266650	28.184121	1207.77	-2082.94

## 2.4 Star Slots

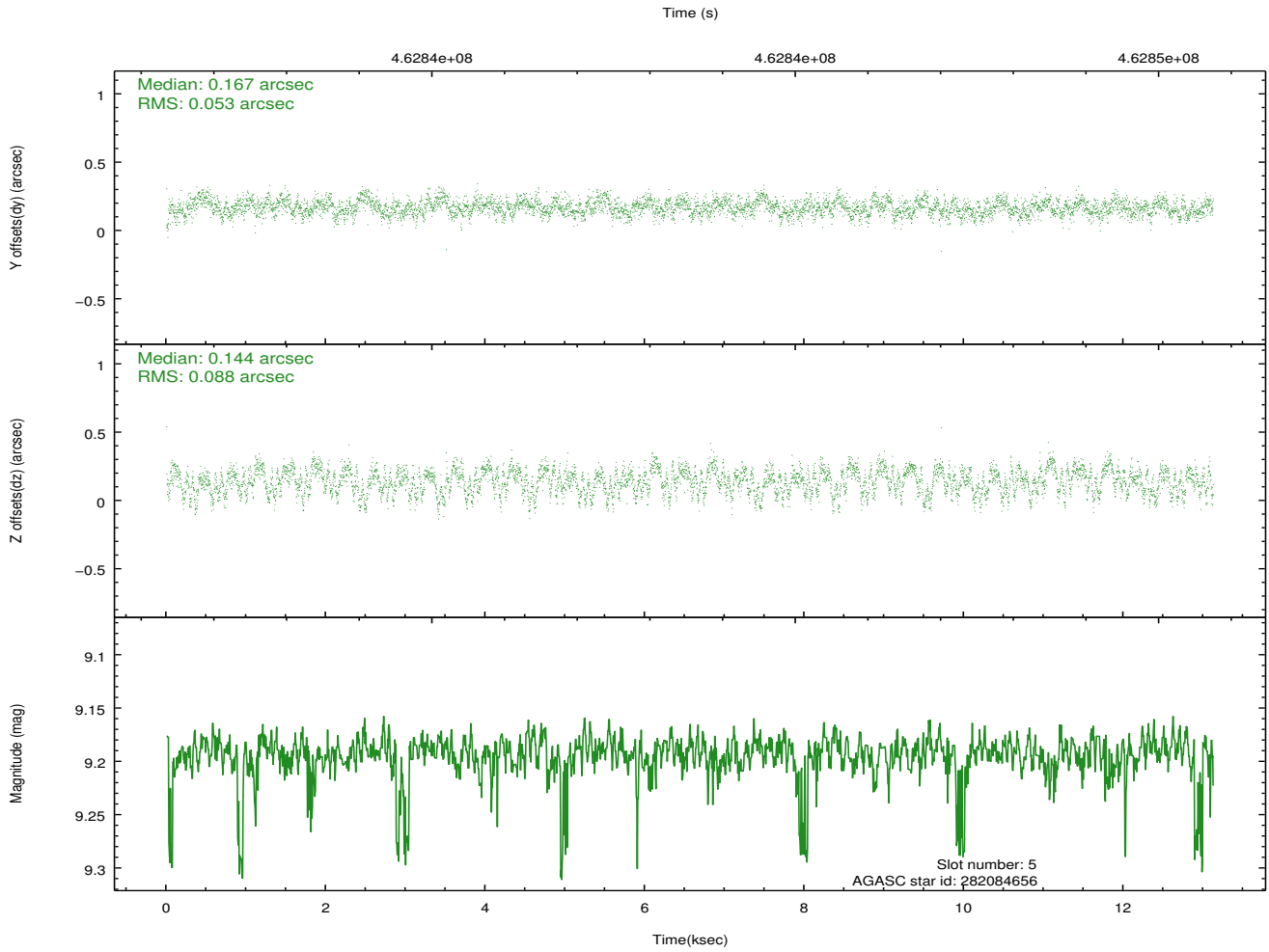
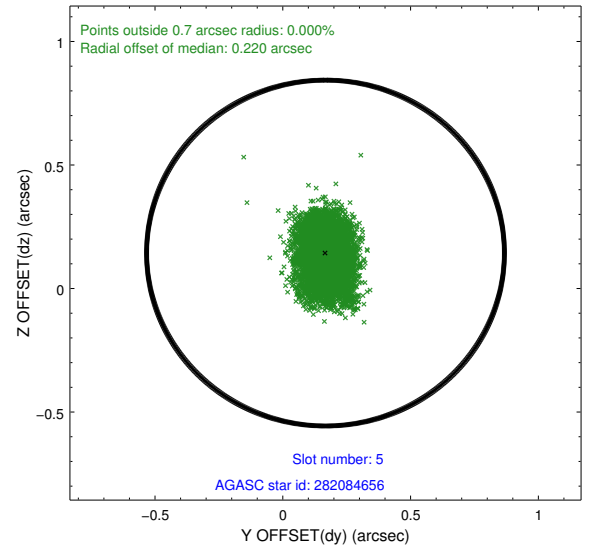
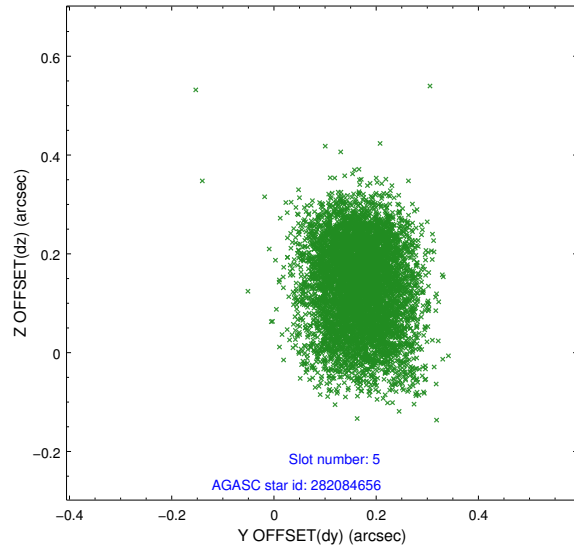
### 2.4.1 Slot 3



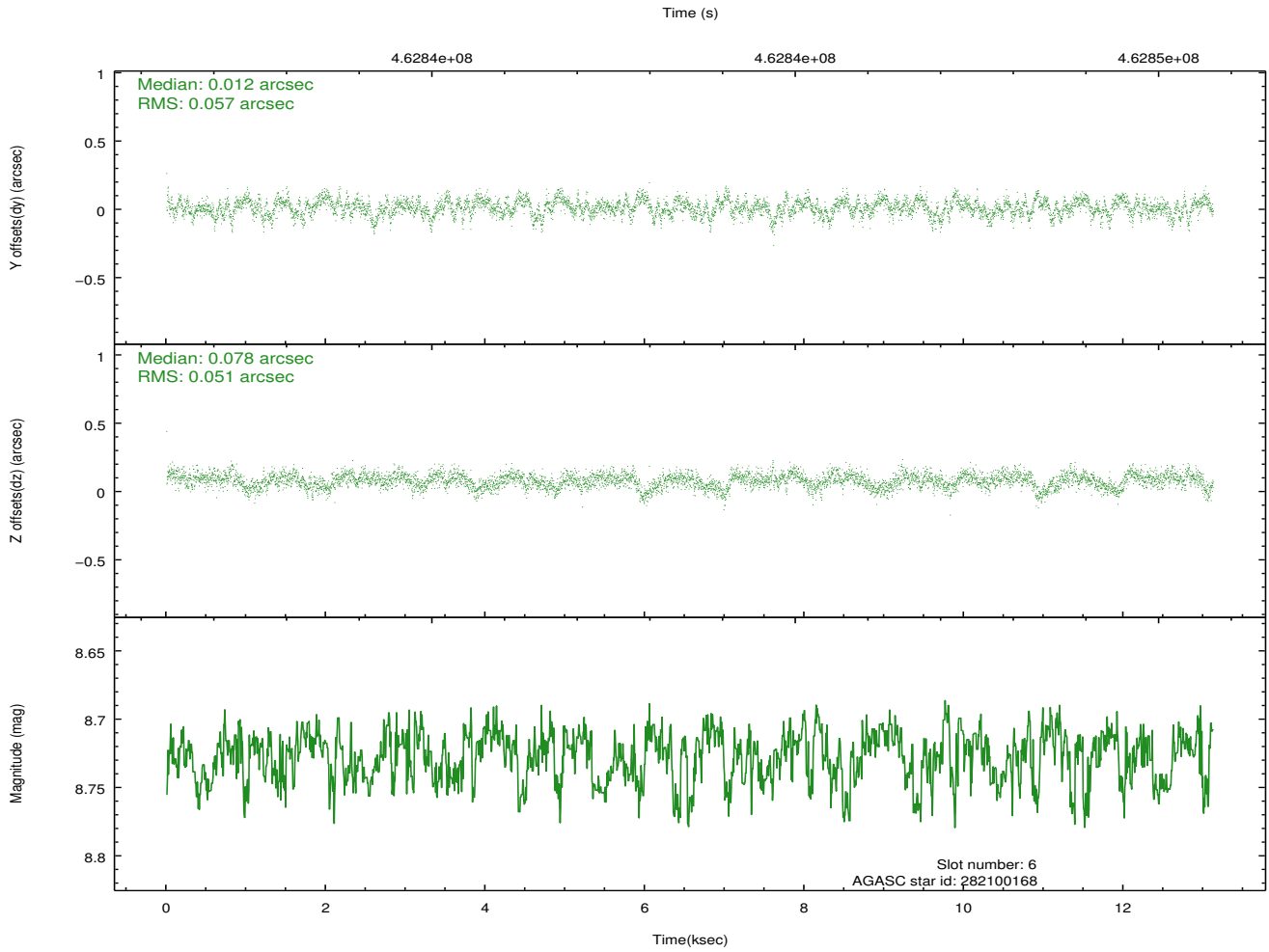
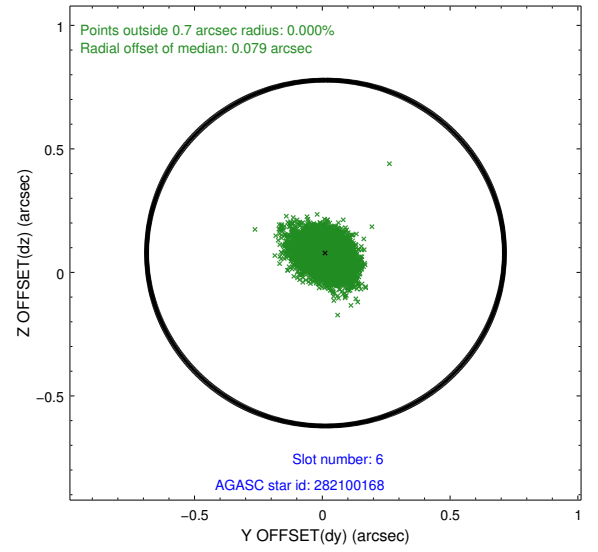
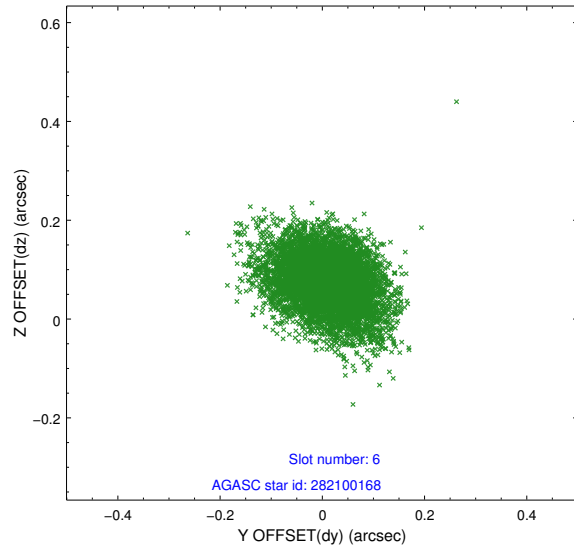
## 2.4.2 Slot 4



### 2.4.3 Slot 5

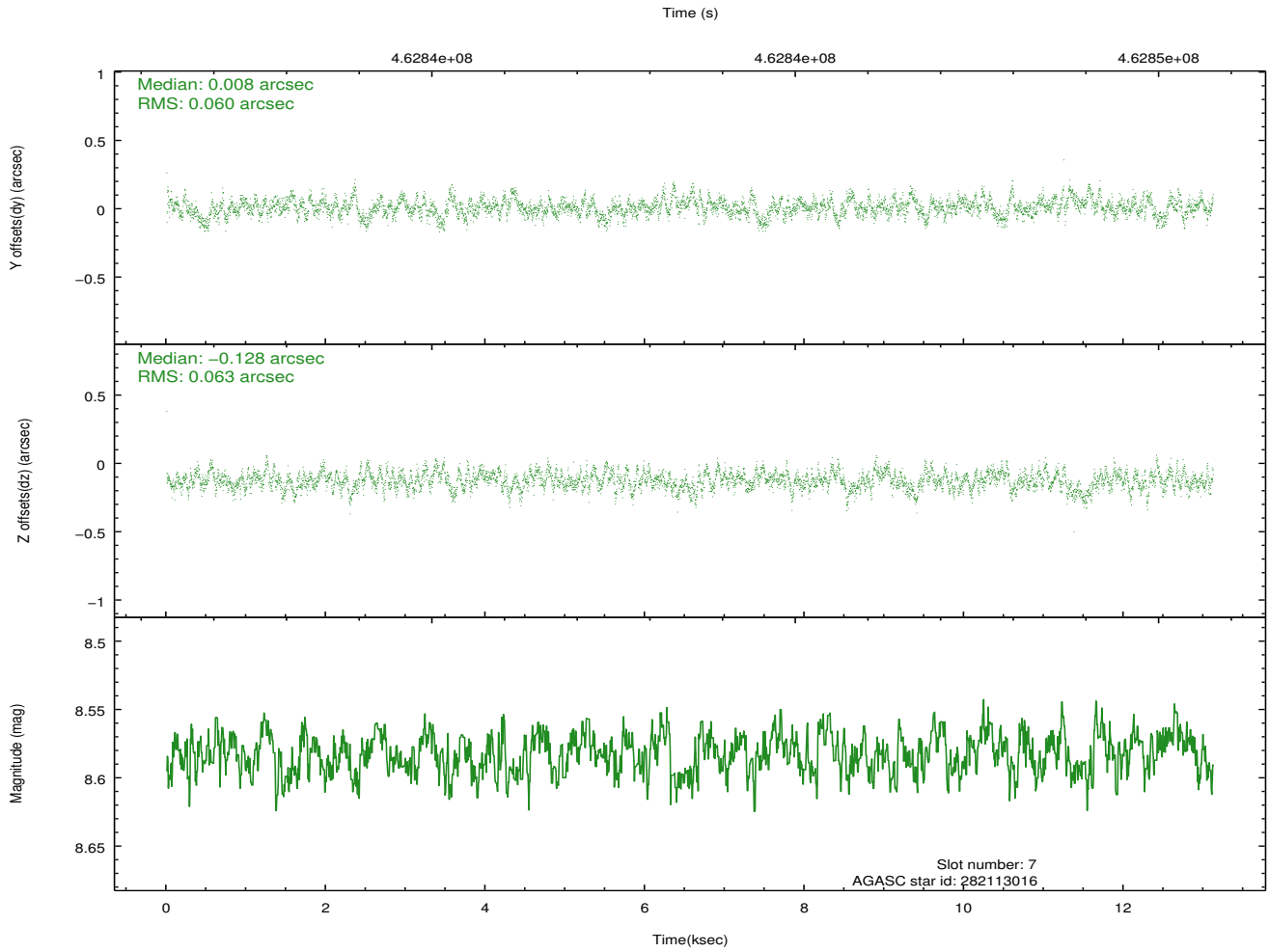
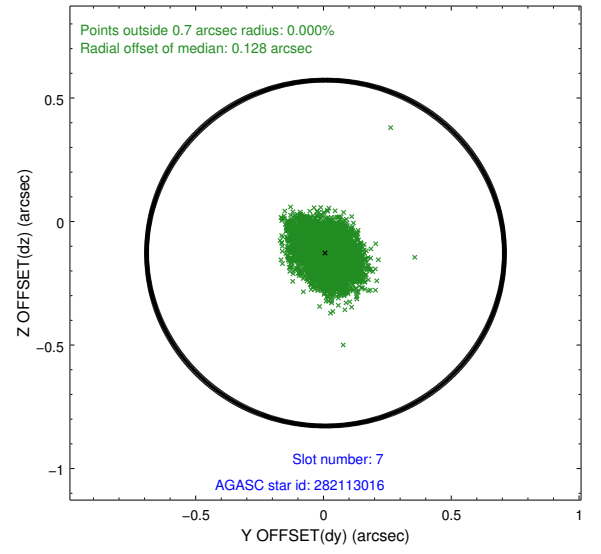
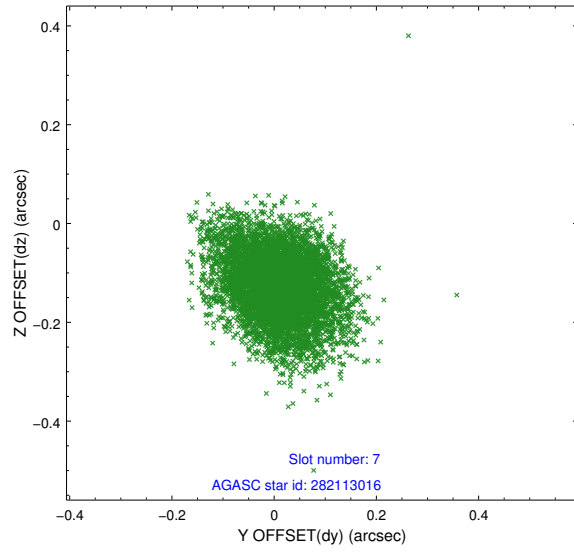


## 2.4.4 Slot 6



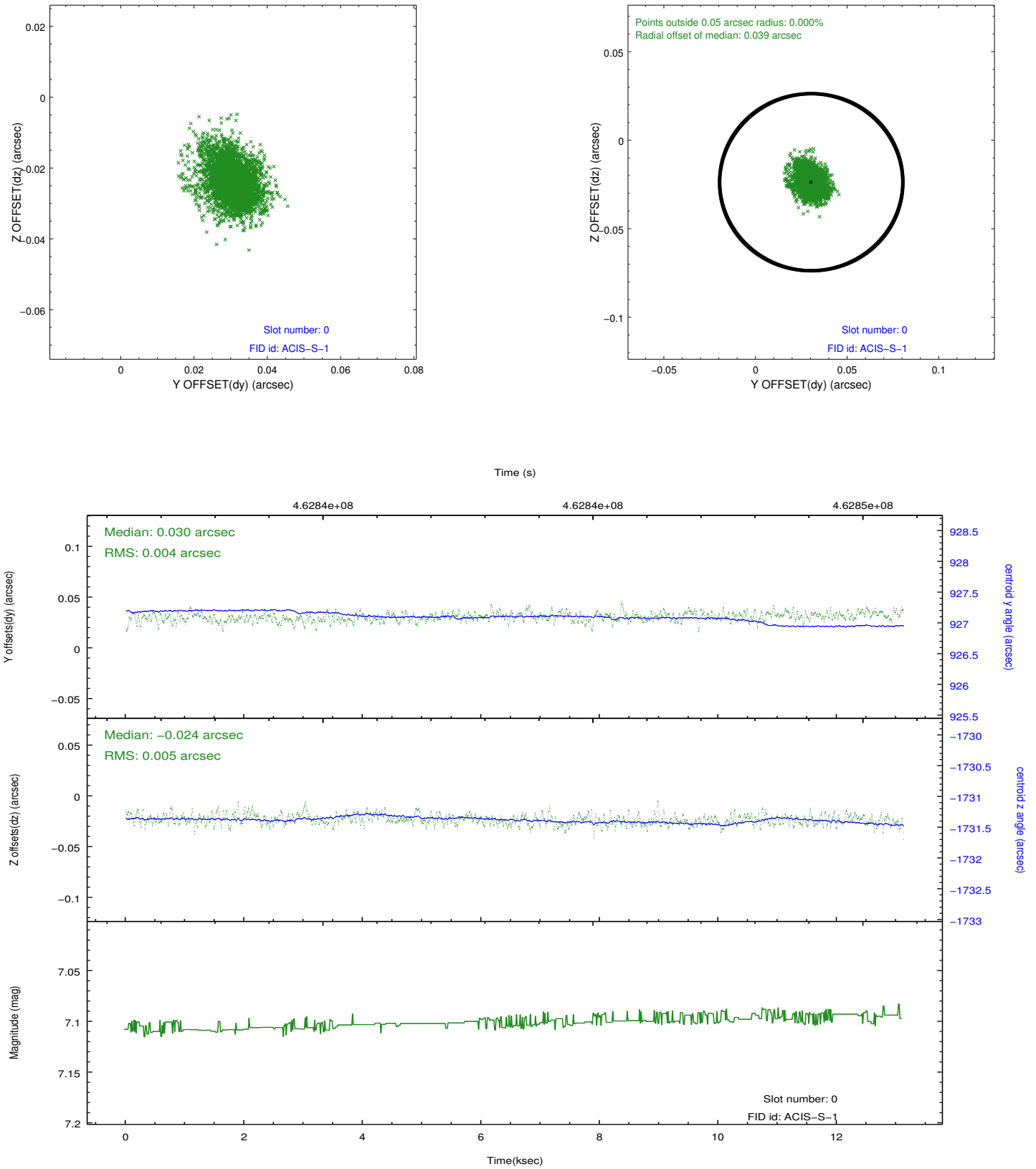


### 2.4.5 Slot 7

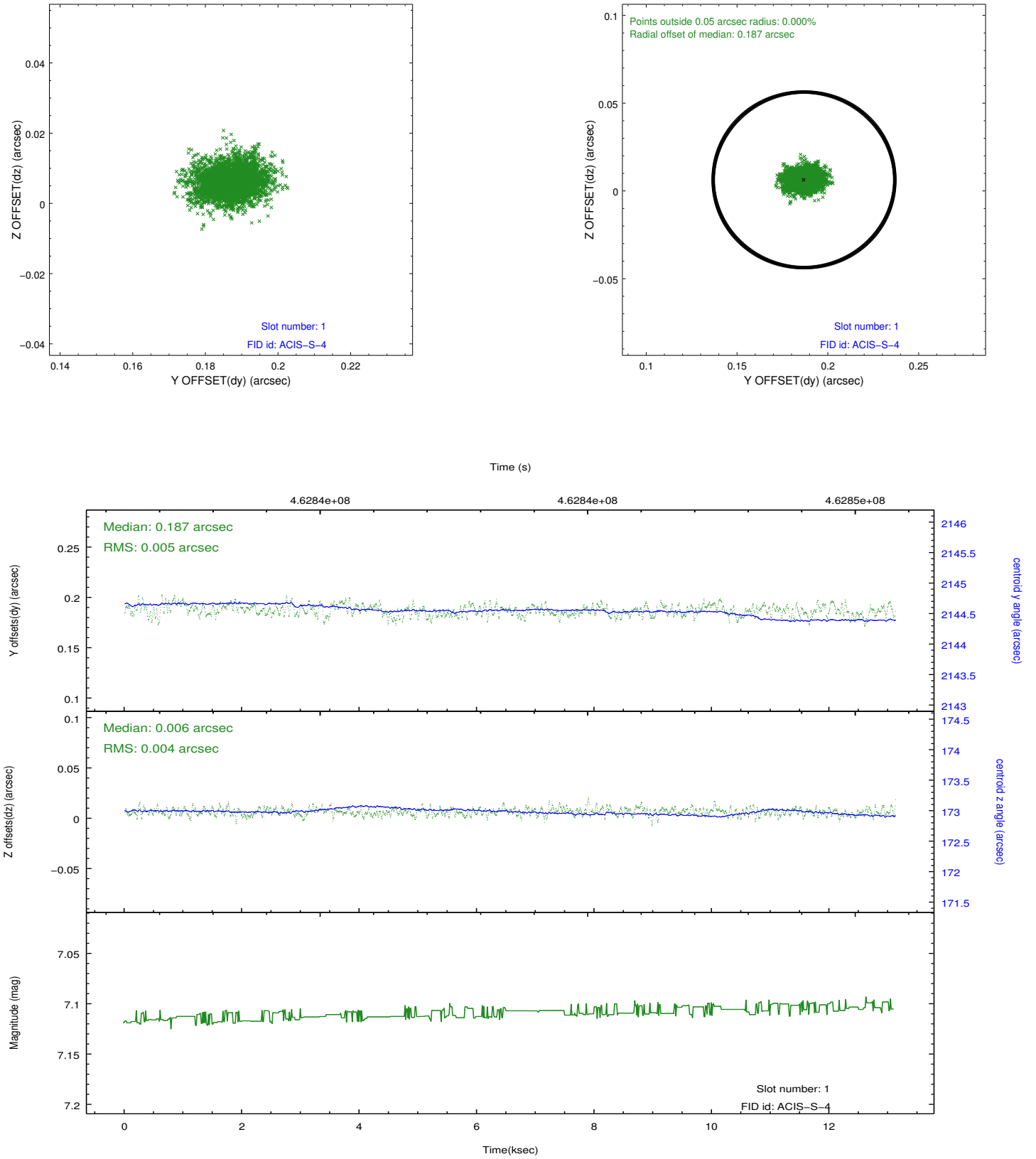


## 2.5 FID Slots

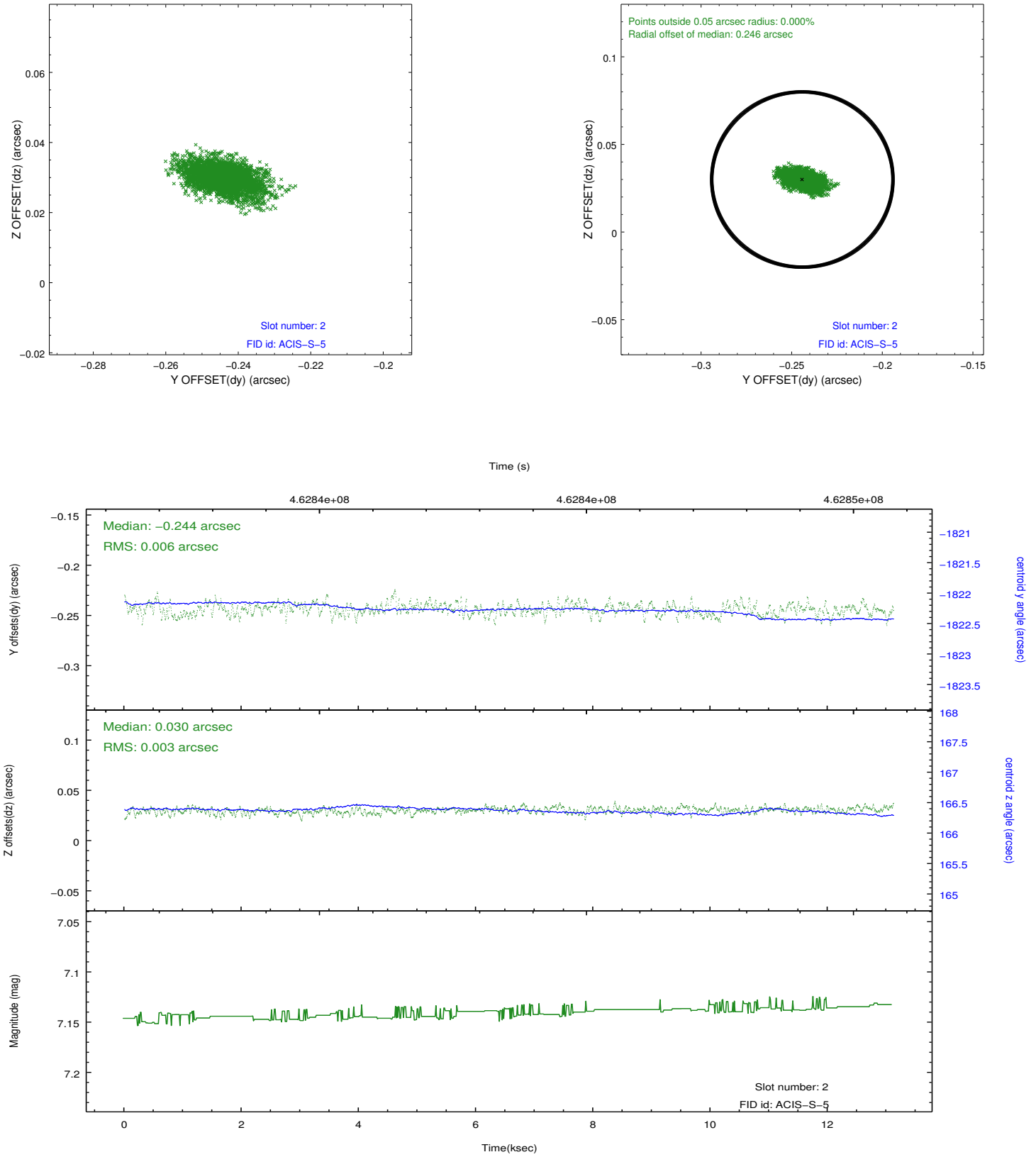
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.09.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.066500100493

### A.2 Comments