

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9101 - L2 Version 2  
Chandra X-Ray Center

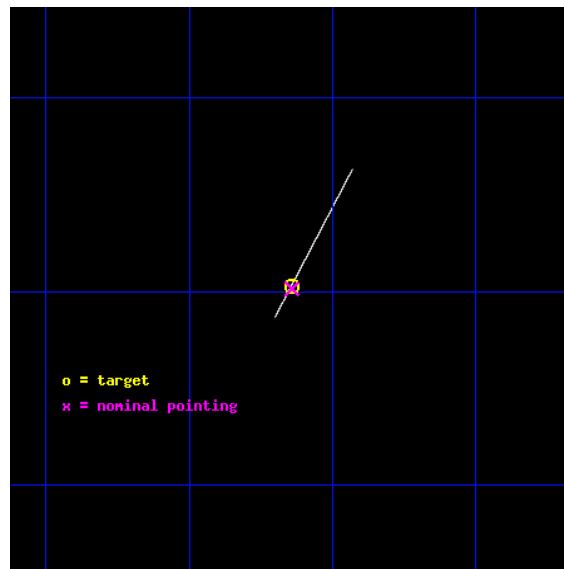
L2 Processing Date : May 5 2012

## 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

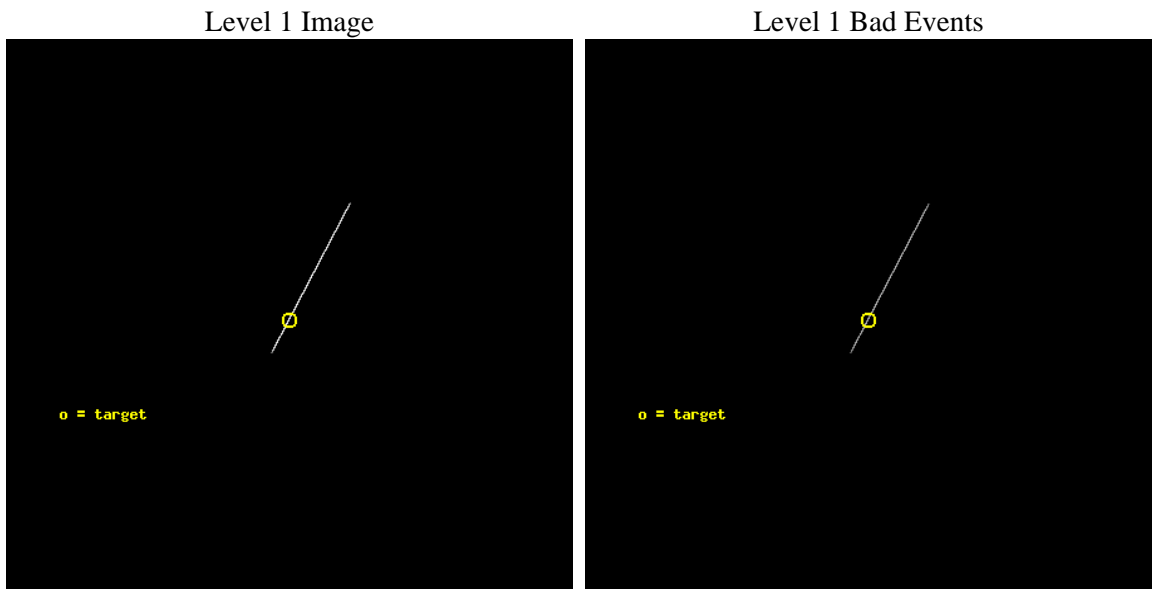
seq_num	500964	Sequence number
obs_id	9101	Observation id
title	Timing PSR J1852+004 in Supernova Remnant Kes 79: Plan B	Proposal
observer	Prof. Jules Halpern	Principal investigator
object	PSR J1852+0040	Source name
ra_targ	283.160833	Observer's specified target RA [deg]
dec_targ	0.672167	Observer's specified target Dec [deg]
ra_nom	283.16056028235	Nominal RA [deg]
dec_nom	0.66924290358098	Nominal Dec [deg]
roll_nom	297.90587517363	Nominal Roll [deg]
revision	2	Processing version of data
ontime	33130.5	Sum of GTIs [s]
livetime	33001.083984375	Livetime [s]
ontime7	33130.5	Sum of GTIs [s]
l2events	205713	Number of level 2 events



## 2 OBI

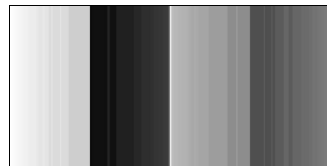
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	33130.5	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime7	33130.5	Sum of GTIs [s]
date	2012-05-05T05:38:05	Date and time of file creation	l1events	253698	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

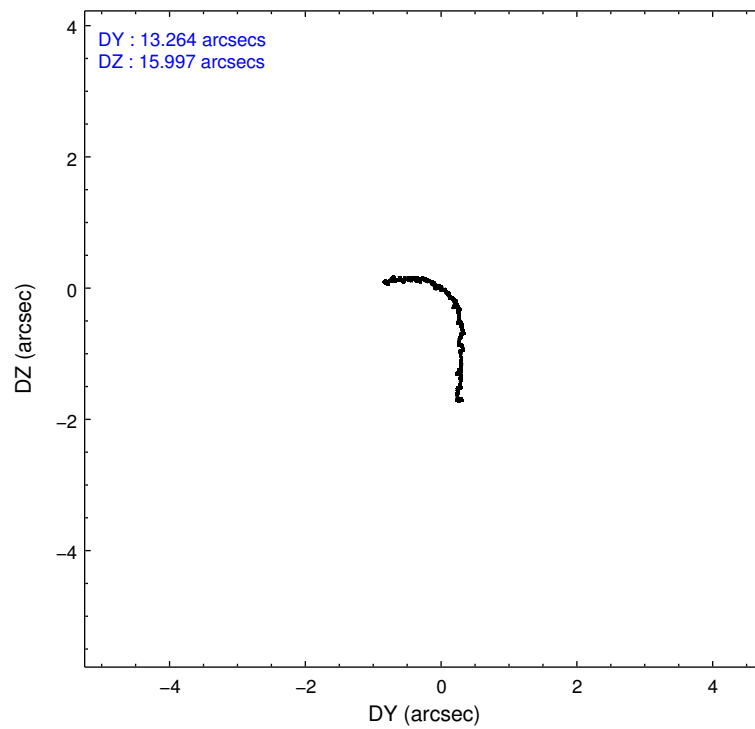
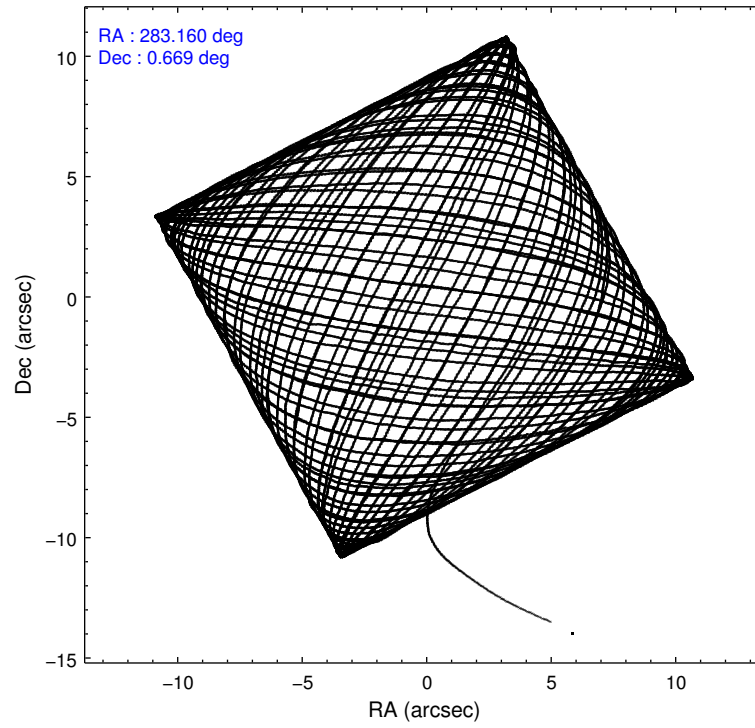
	<b>ccd 7</b>
level 1 events	253698
rejected events	40368
rejected %	15%

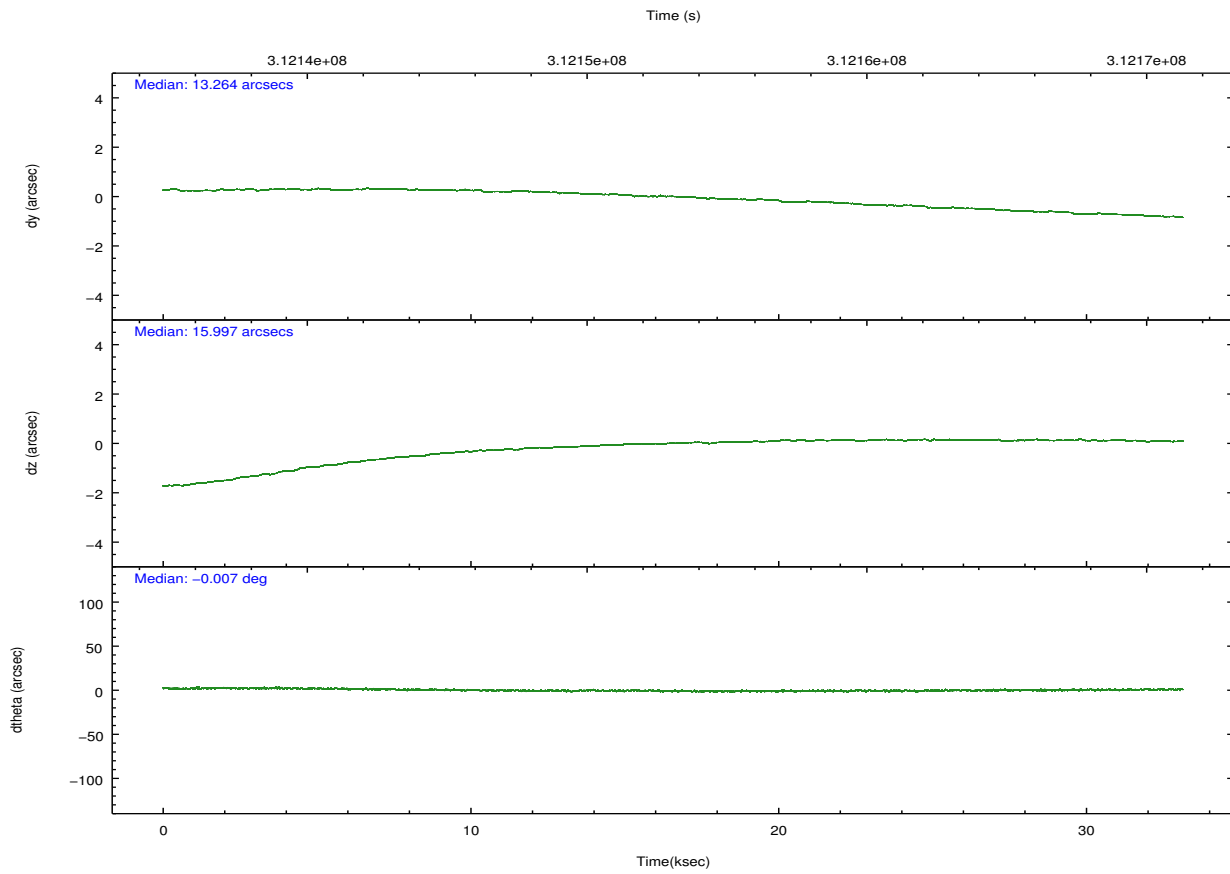
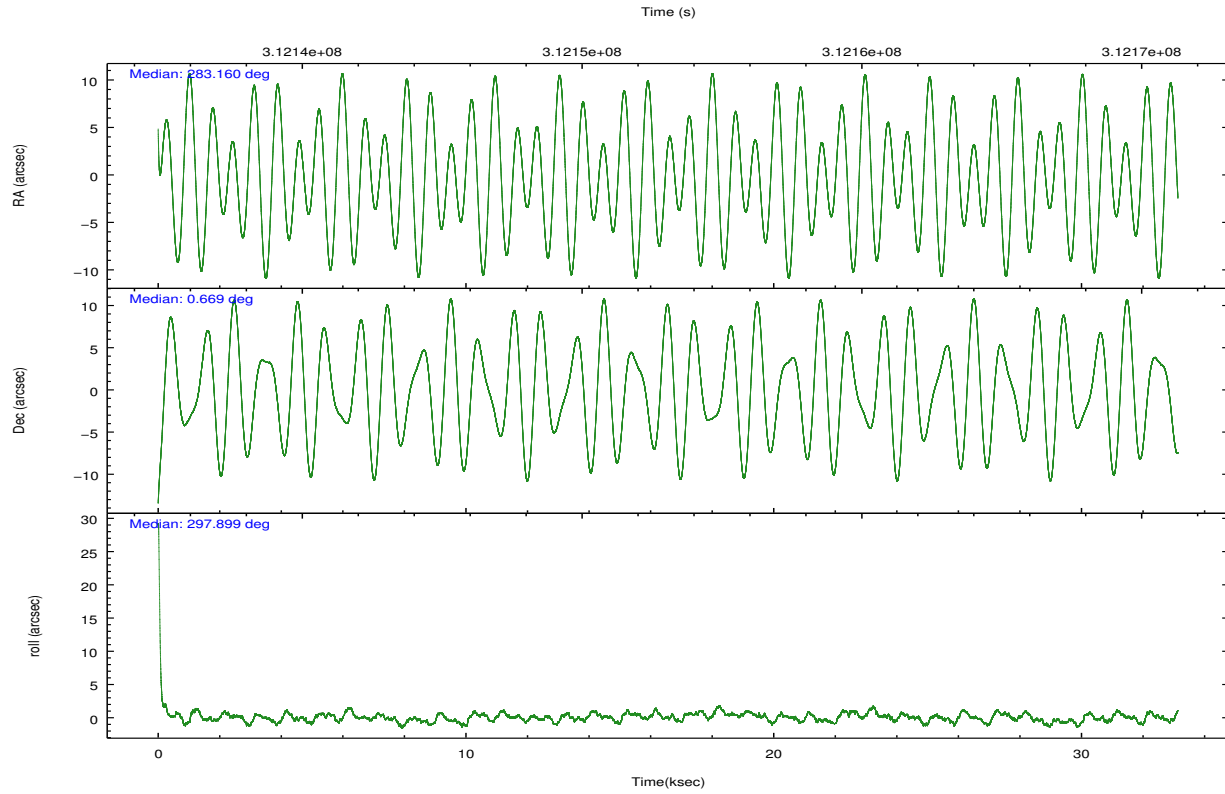
	<b>ccd 7</b>
grade 0 events	21751
	8%
grade 1 events	495
	0%
grade 2 events	59349
	23%
grade 3 events	13890
	5%
grade 4 events	13552
	5%
grade 5 events	33681
	13%
grade 6 events	110980
	43%
grade 7 events	0
	0%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	283.137192	283.1605602823479	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.683456	0.6692429035809808	Alternating exposures requested	N	N
[deg] Pointing Roll	297.749511	297.90587517363	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-180.462523	-180.464980769469			
[mm] SIM translation stage offset	-9.67	-9.667541813538804			
[s] Observation start time (MET)	312136645.184000	312135385.17611			
Observation start date	2007-11-22T16:36:20	2007-11-22T16:16:25			
[s] Observation end time (MET)	312169645.184000	312170521.66531			
Observation end date	2007-11-23T01:46:20	2007-11-23T02:02:01			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect



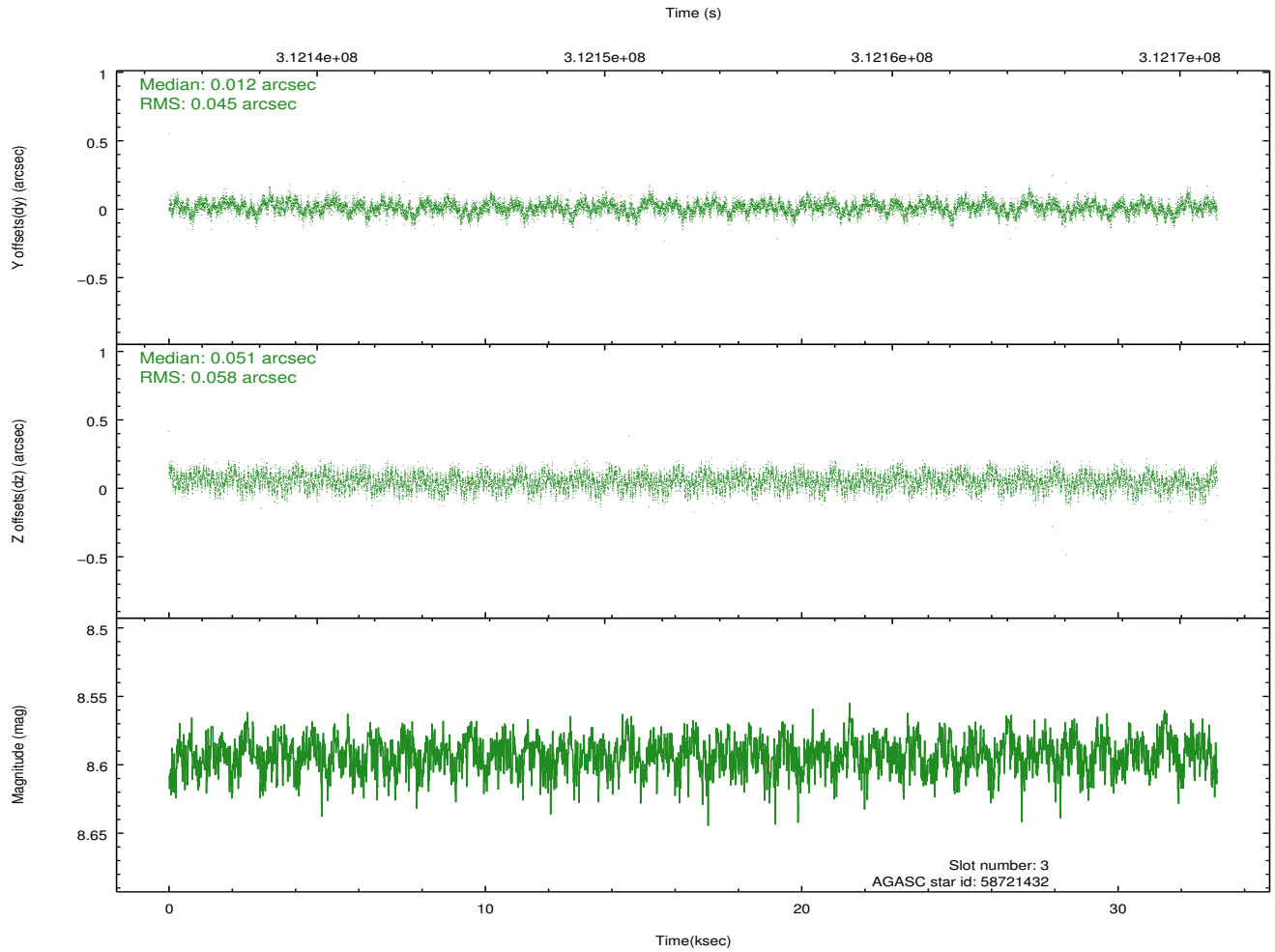
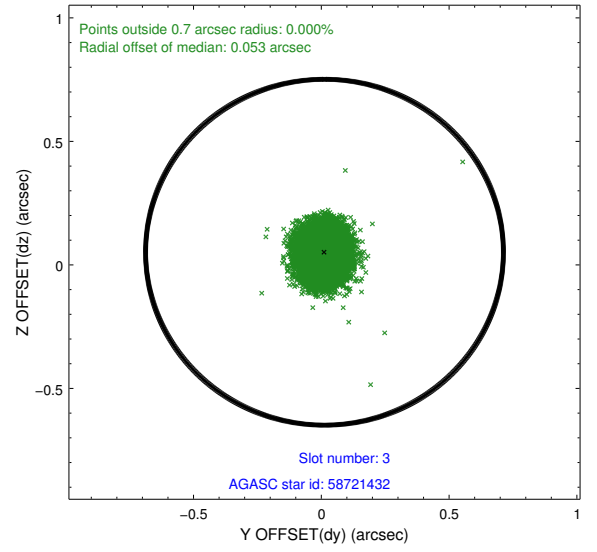
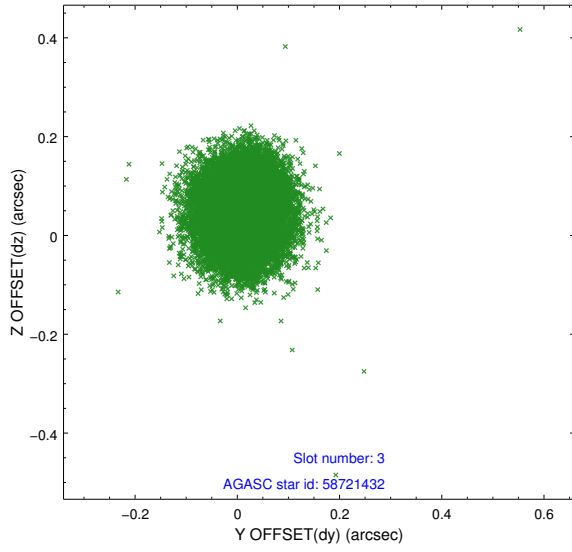


### Slot Statistics

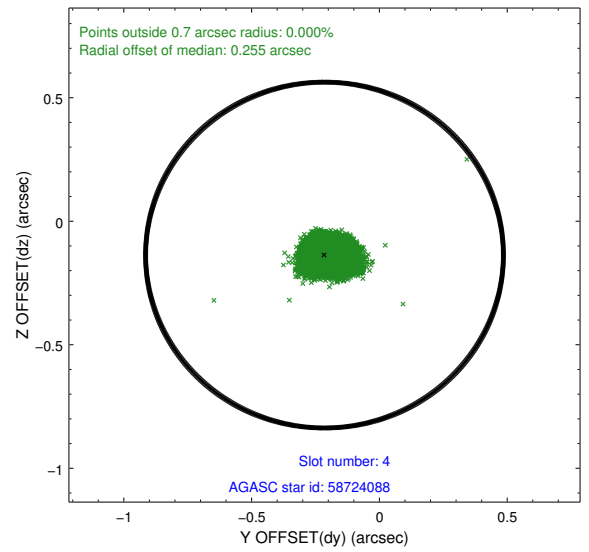
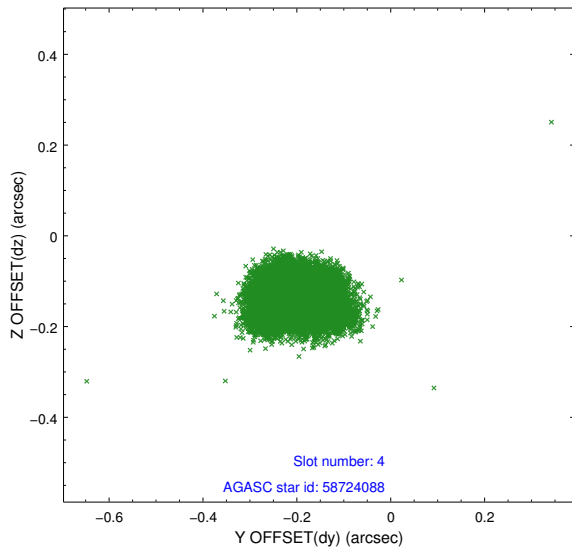
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.17	8082	0.063	0.148	0.016	0.025	0.000000	0.000000	930.77	-1931.67
1	FID	ACIS-S-2	7.07	8082	-0.172	-0.147	0.016	0.042	0.000000	0.000000	-765.34	-1936.62
2	FID	ACIS-S-6	7.40	8082	0.090	0.003	0.014	0.054	0.000000	0.000000	396.37	609.41
3	GUIDE	58721432	8.59	16160	0.012	0.051	0.079	0.125	282.605647	0.791519	-1234.81	-1512.08
4	GUIDE	58724088	6.68	16164	-0.215	-0.137	0.064	0.105	282.404972	0.836197	-1713.65	-2076.73
5	GUIDE	58852048	8.37	16158	0.076	0.031	0.058	0.094	283.366398	0.870285	-210.98	1043.39
6	GUIDE	58857104	9.18	16155	-0.003	0.067	0.087	0.139	283.814800	0.638238	1279.72	2083.42
7	GUIDE	58720848	9.19	16148	0.129	-0.012	0.102	0.166	282.753905	0.246323	750.95	-1953.46

## 2.4 Star Slots

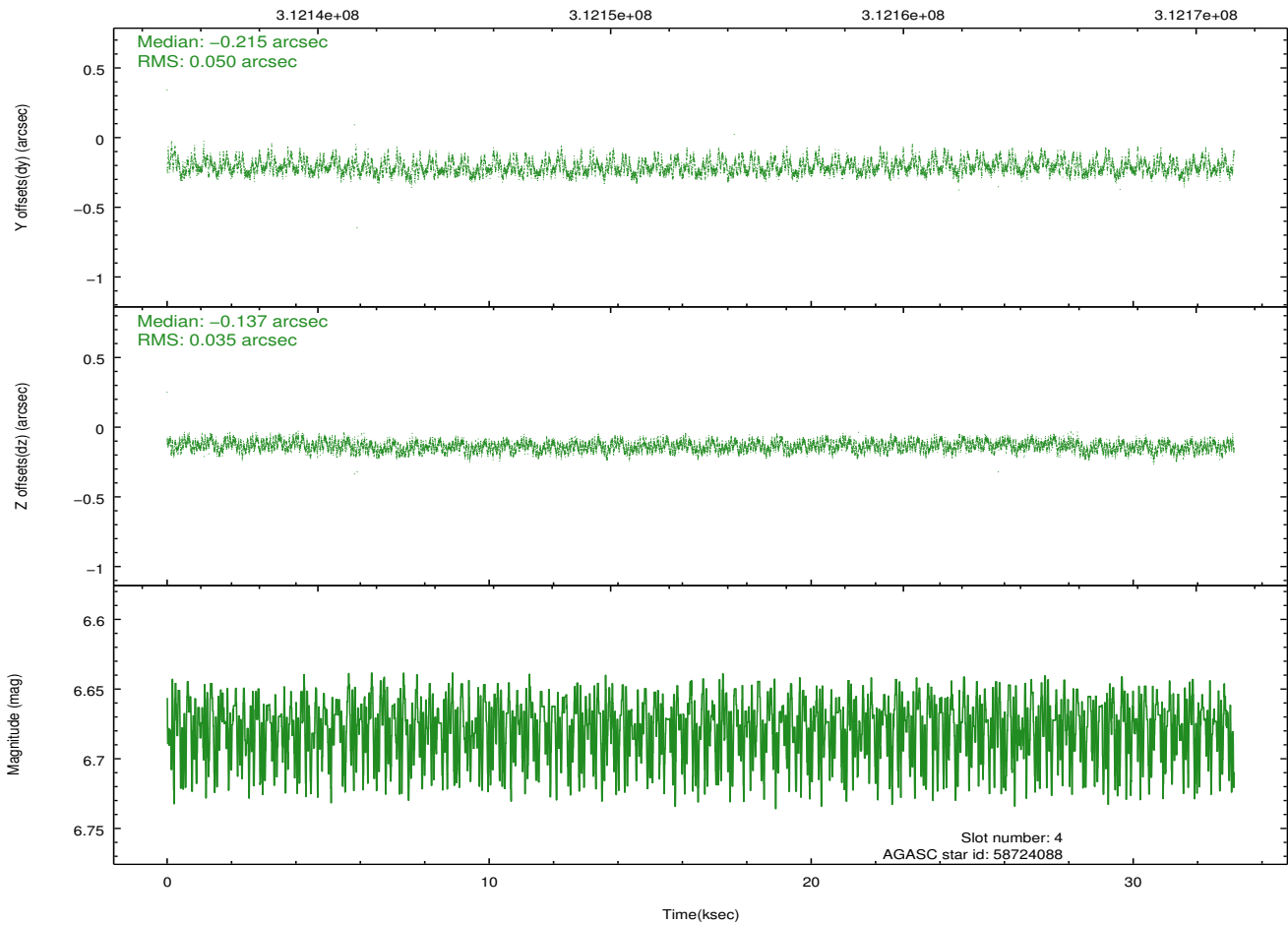
### 2.4.1 Slot 3



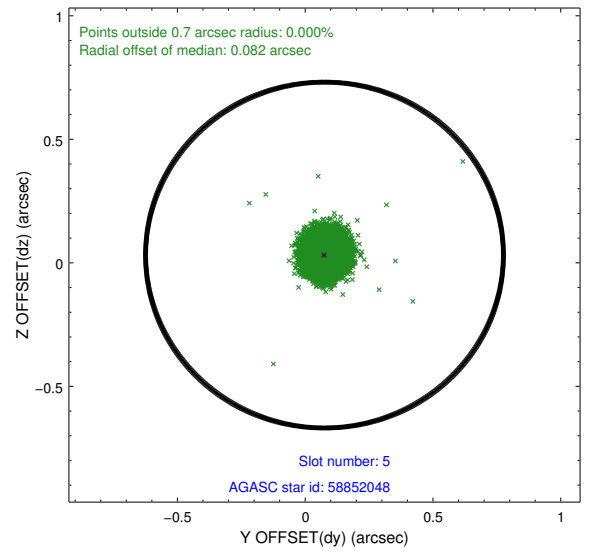
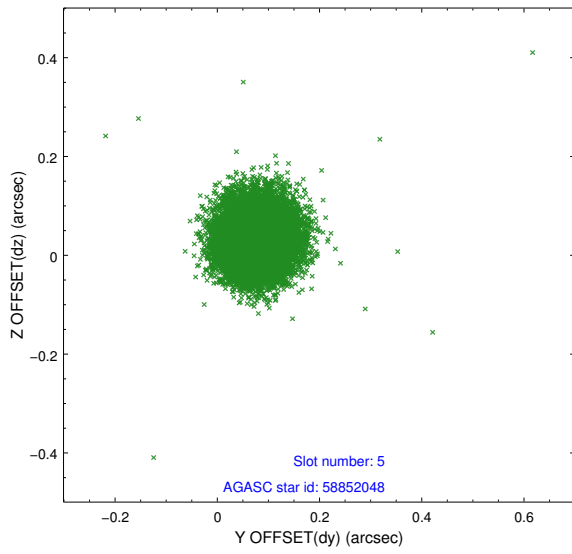
## 2.4.2 Slot 4



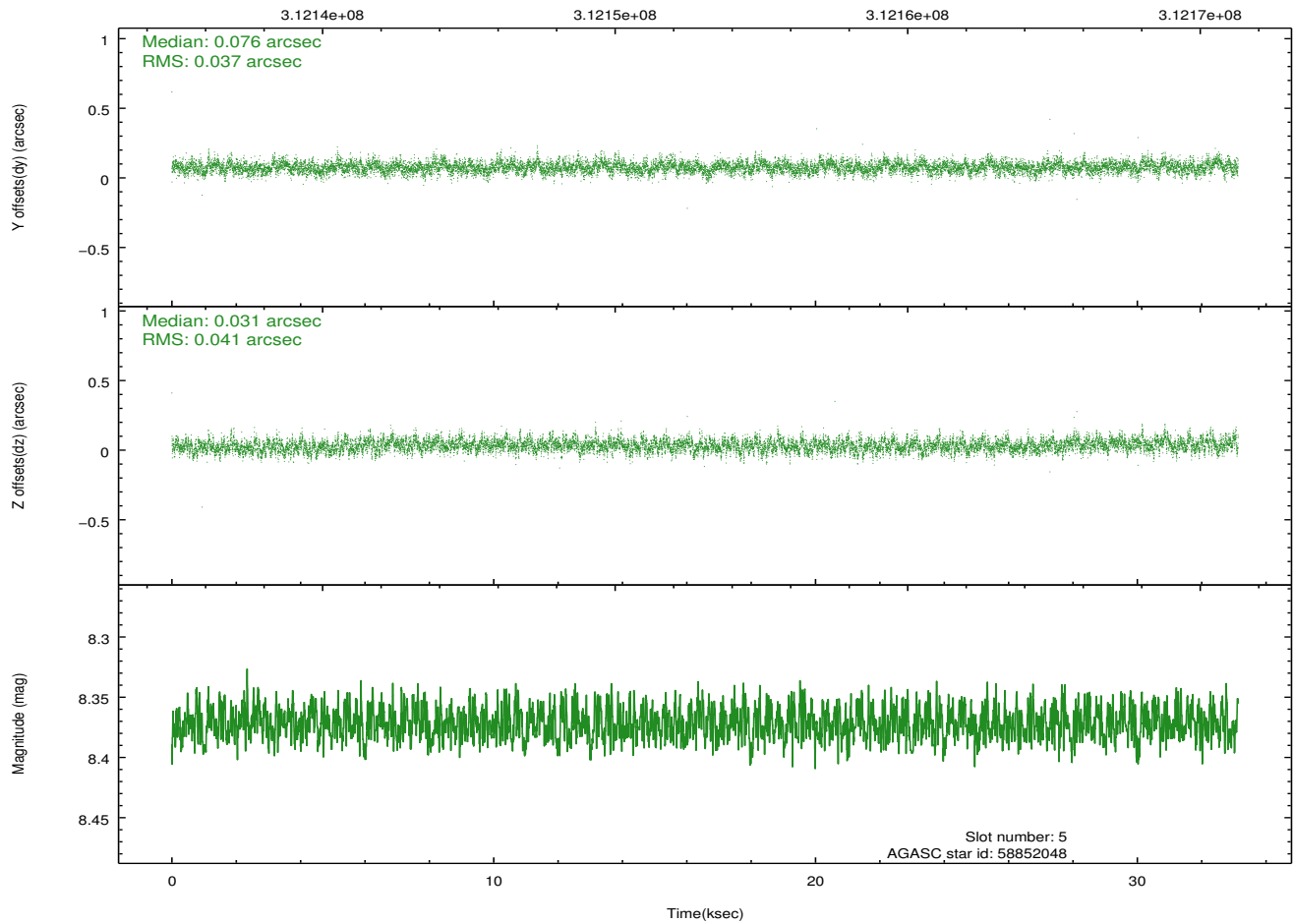
Time (s)



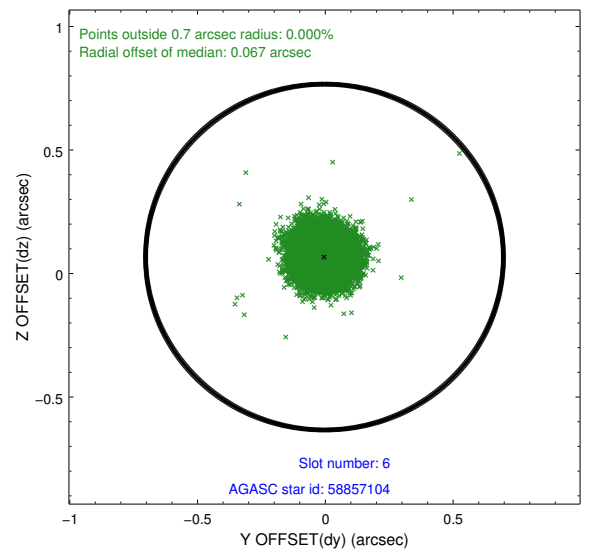
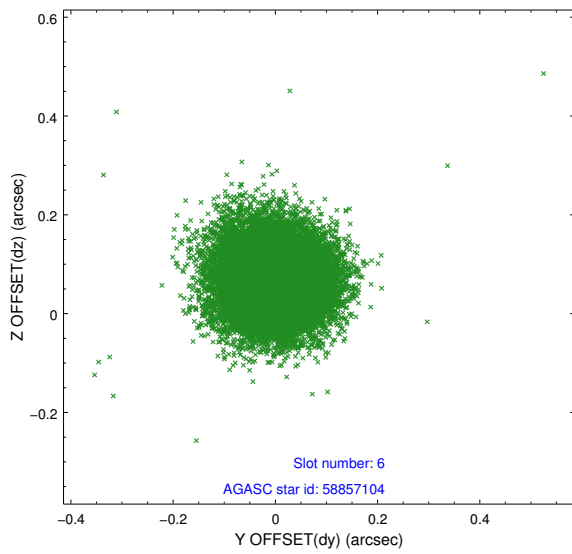
### 2.4.3 Slot 5



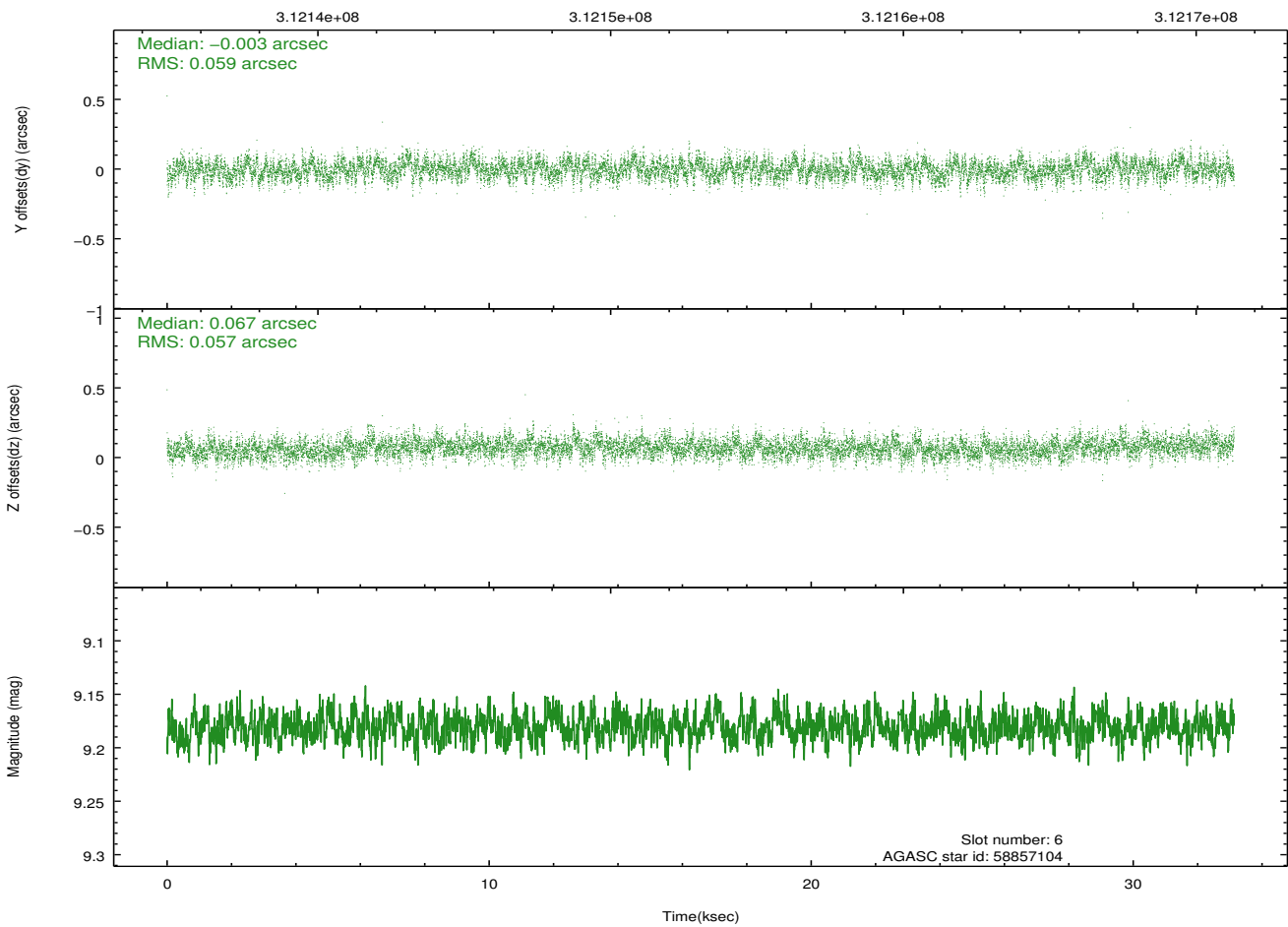
Time (s)



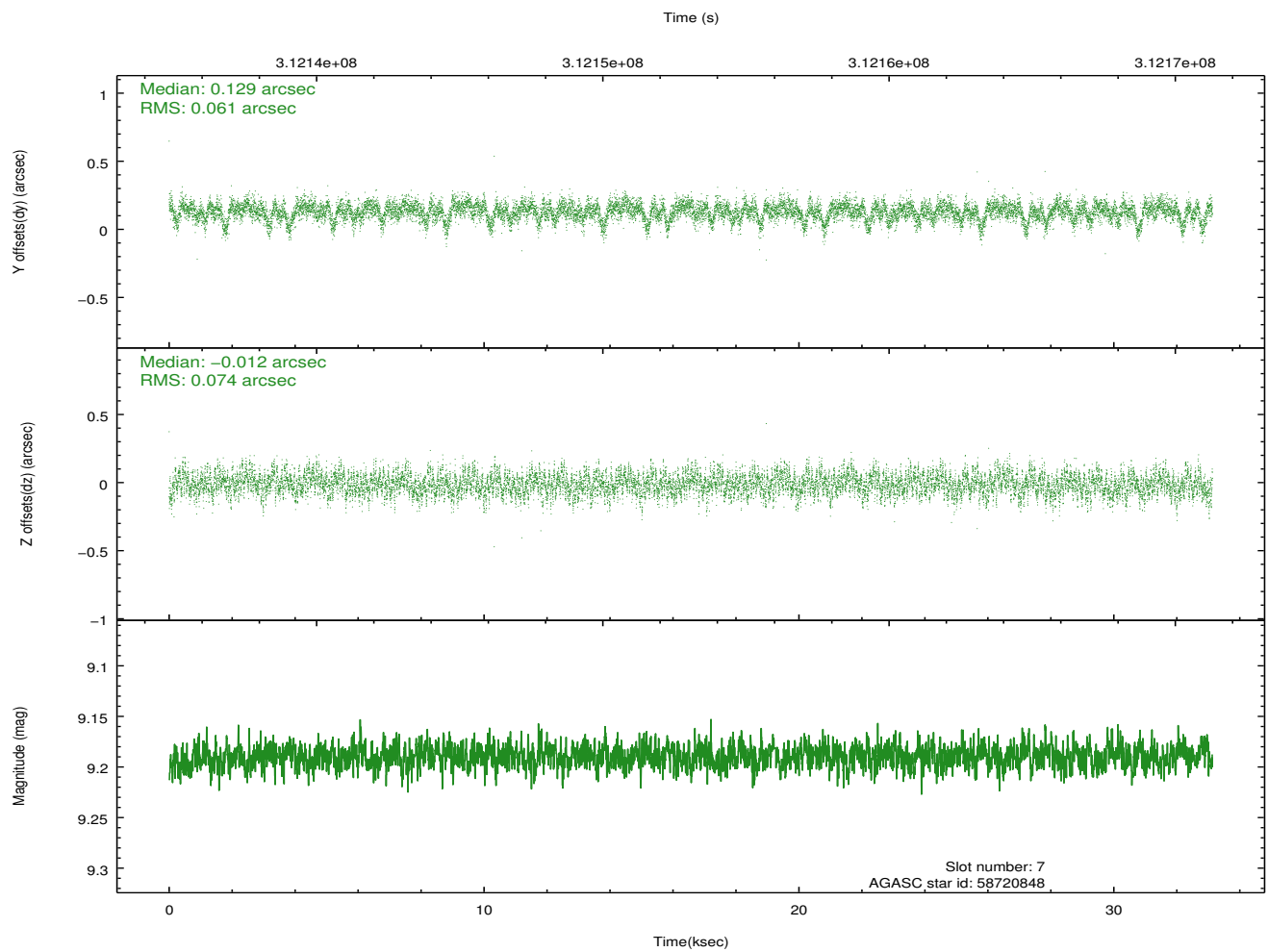
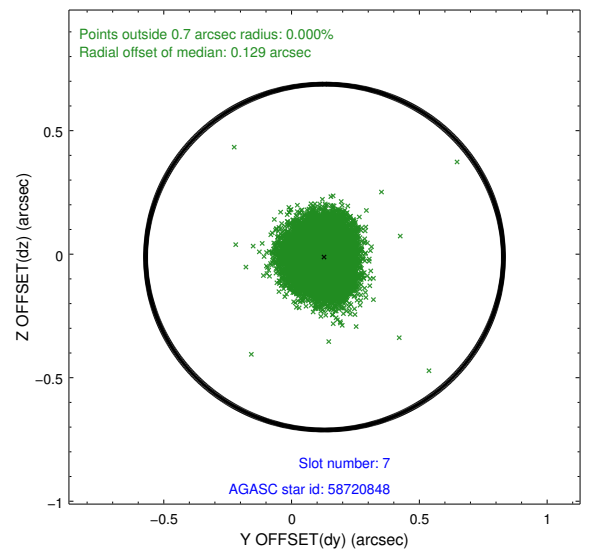
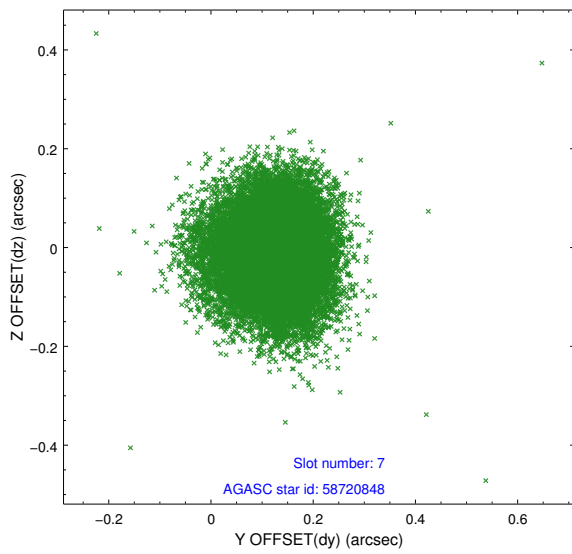
## 2.4.4 Slot 6



Time (s)

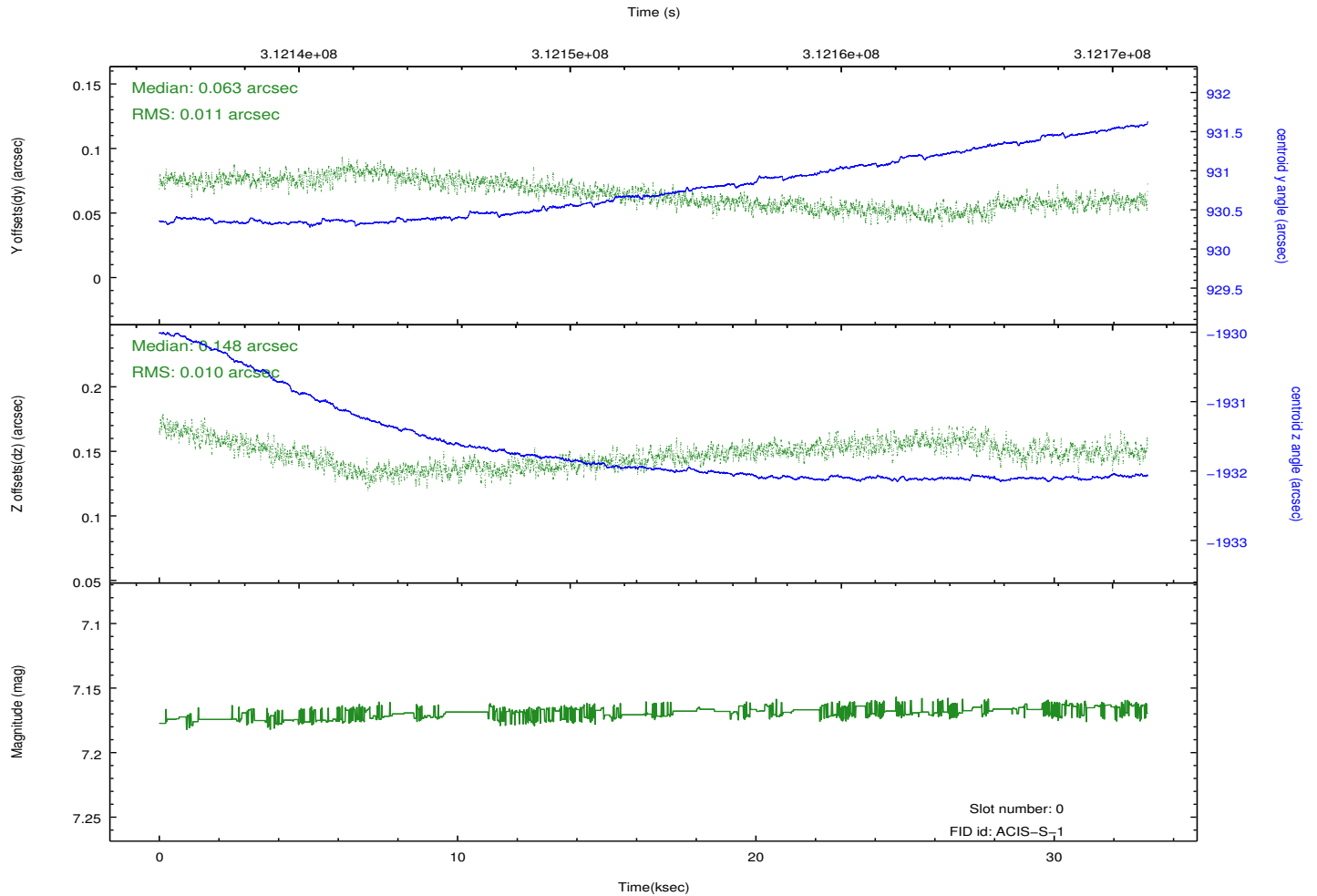
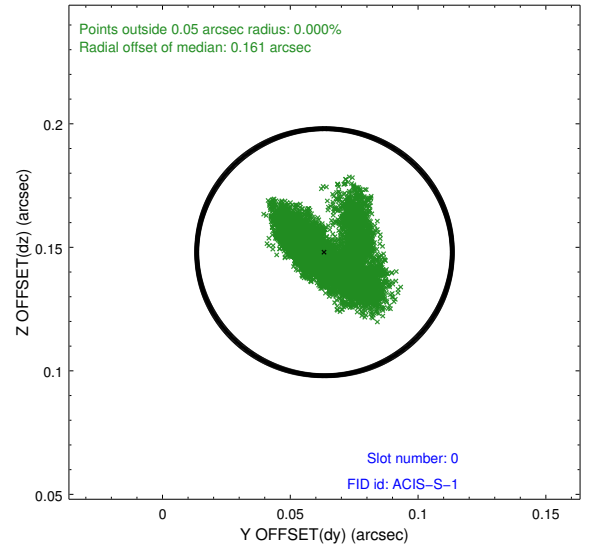
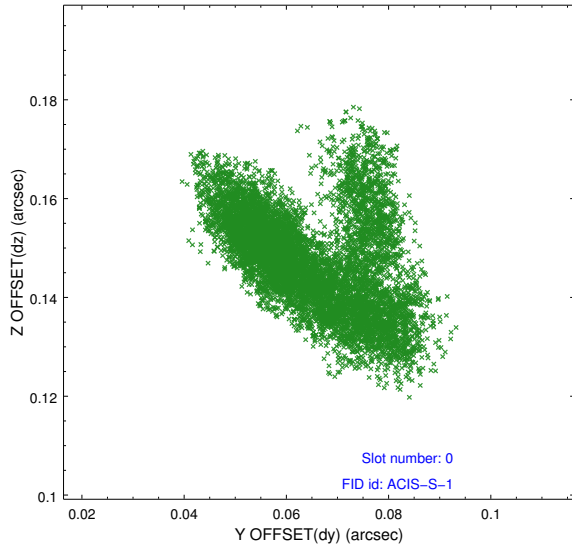


## 2.4.5 Slot 7

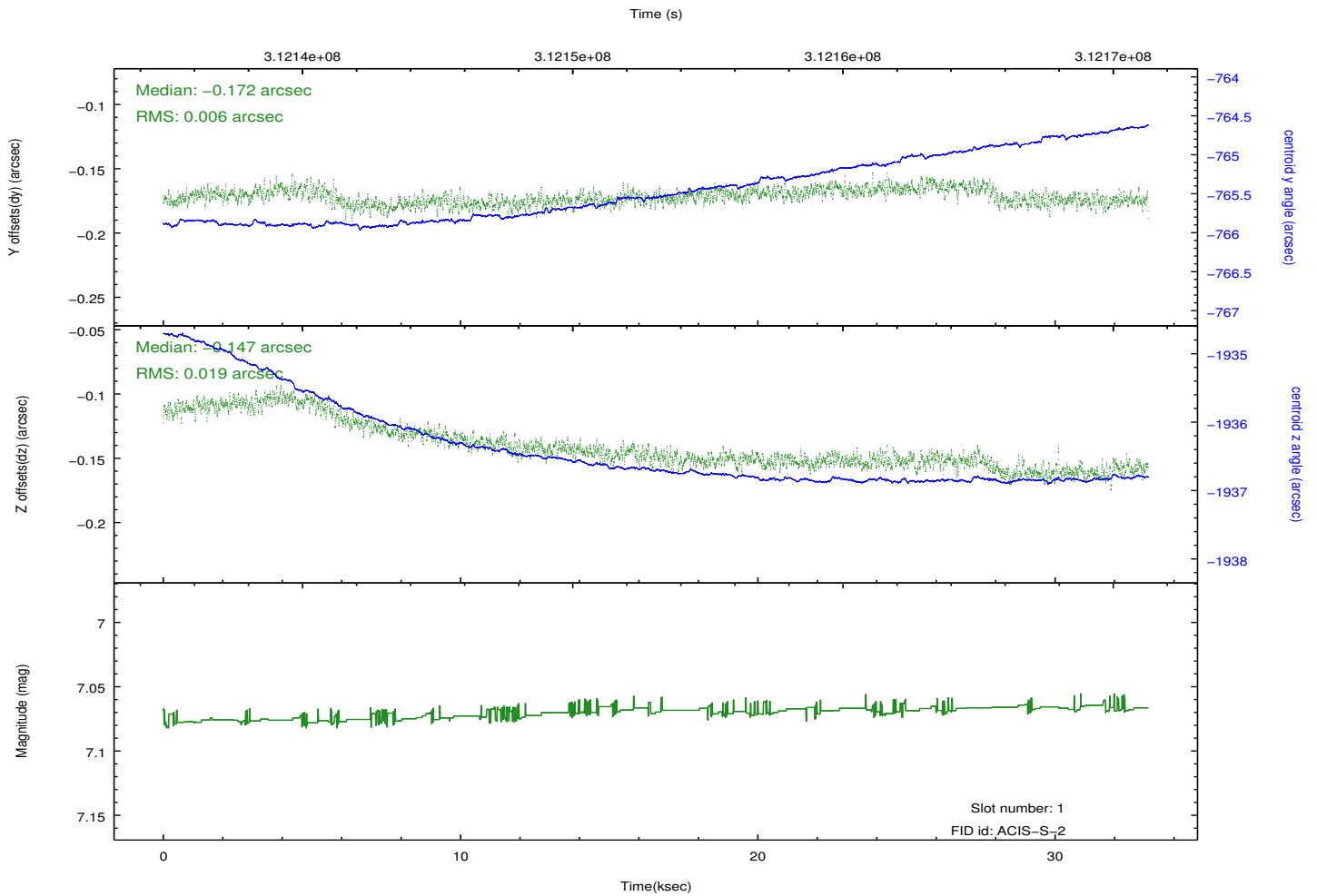
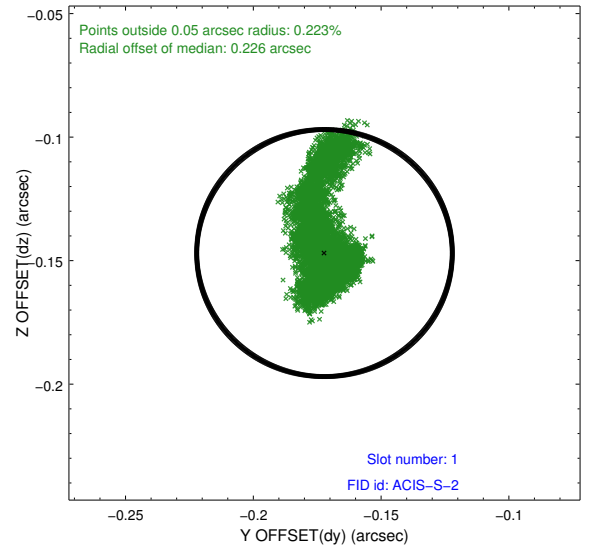
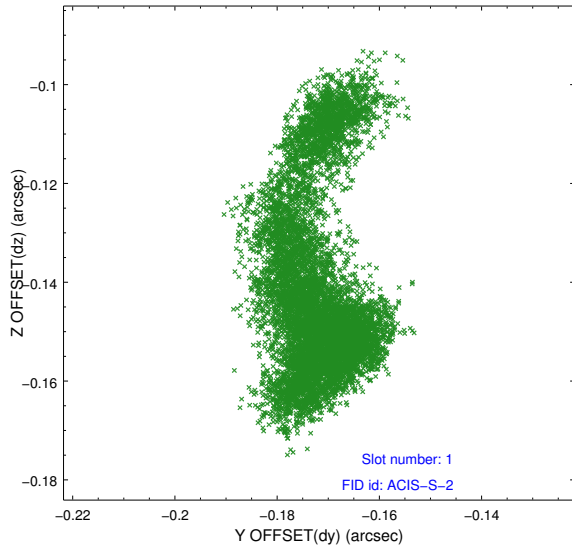


## 2.5 FID Slots

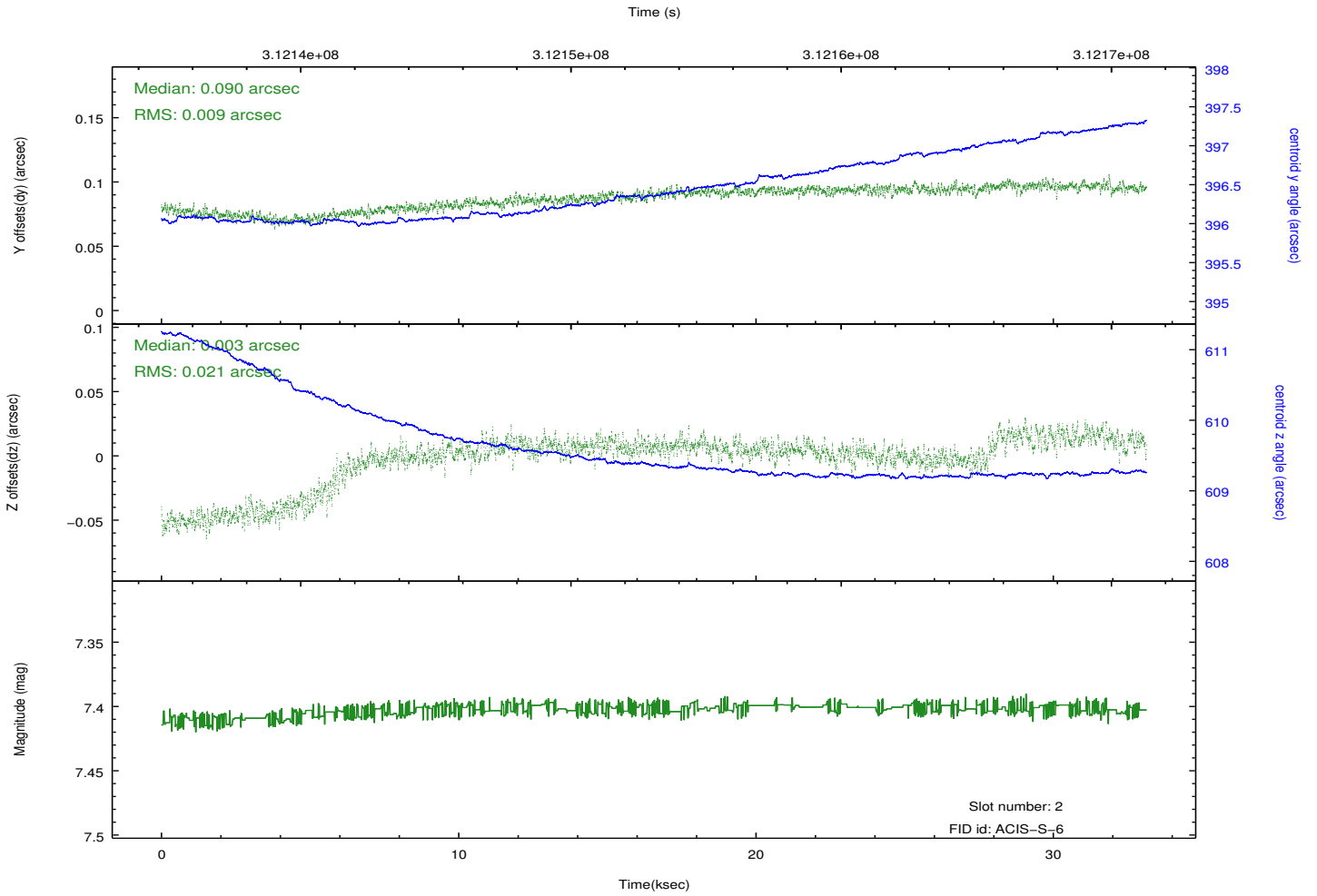
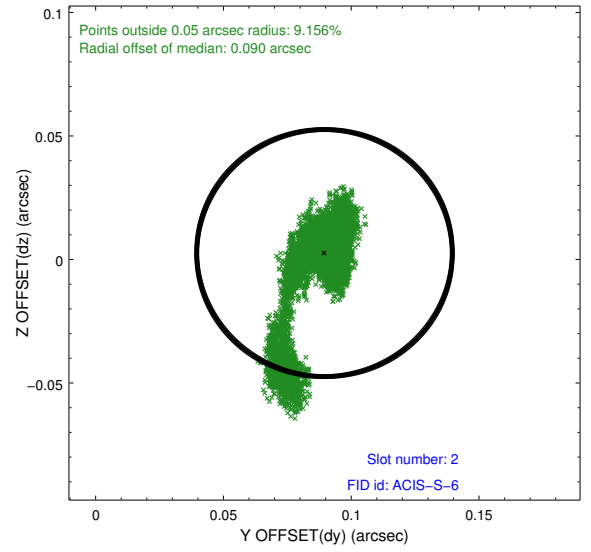
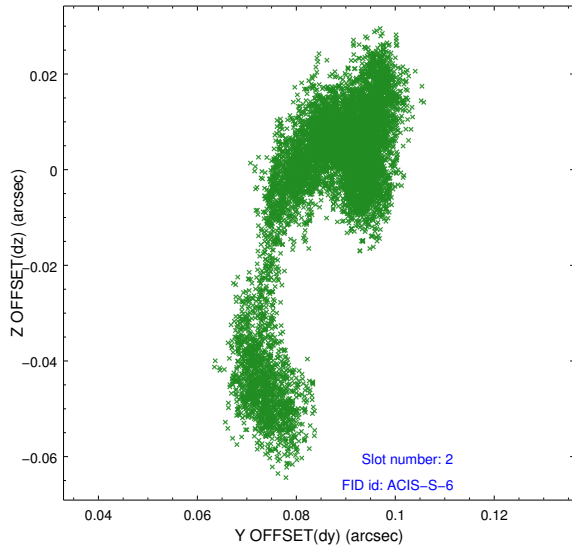
### 2.5.1 Slot 0



## 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)	2012.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.1305

## A.2 Comments