

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3881 - L2 Version 4  
Chandra X-Ray Center

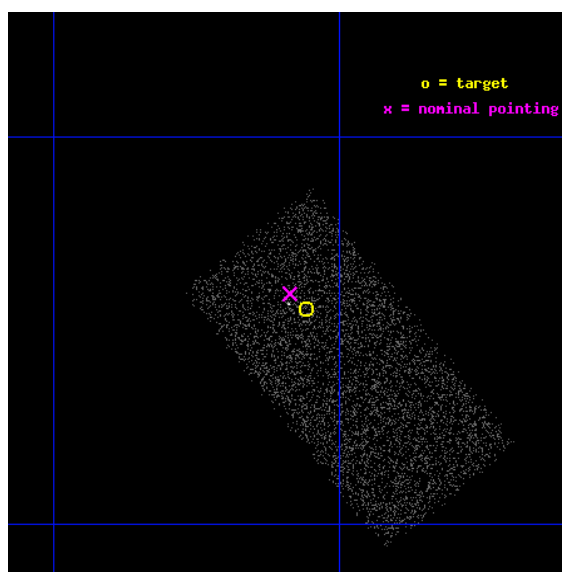
L2 Processing Date : Oct 18 2012

## 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

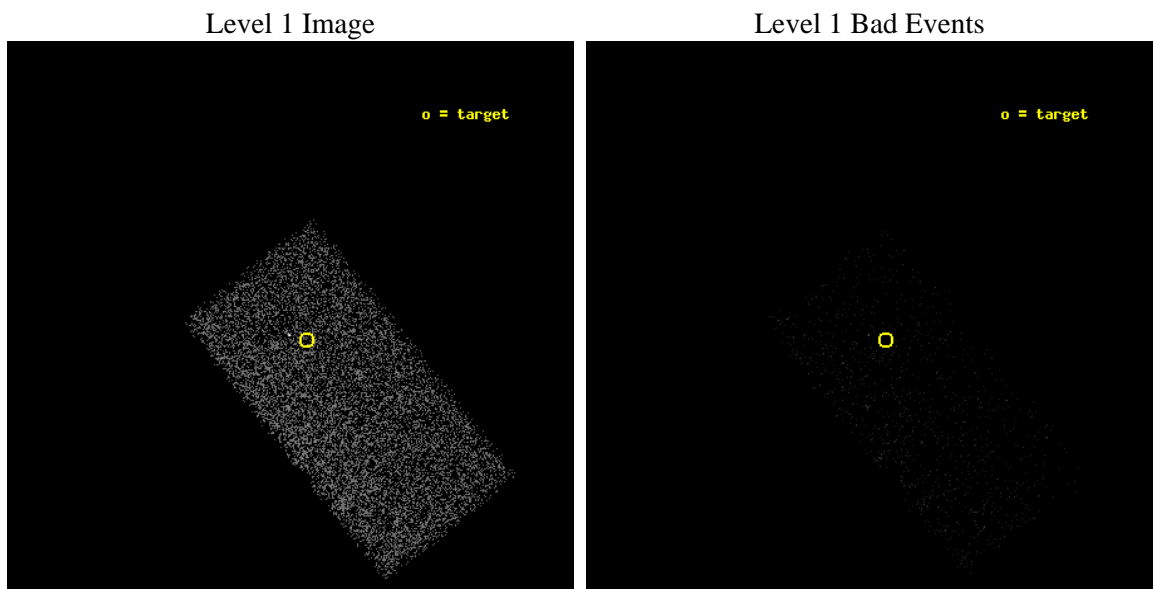
seq_num	500360	Sequence number
obs_id	3881	Observation id
title	COMPLETING THE CENSUS OF COMPACT OBJECTS IN SUPERNOVA REMNANTS	Pro
observer	Prof. David Kaplan	Principal investigator
object	LNS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	97.514583	Observer's specified target RA [deg]
dec_targ	5.759444	Observer's specified target Dec [deg]
ra_nom	97.521672103351	Nominal RA [deg]
dec_nom	5.7657202044102	Nominal Dec [deg]
roll_nom	51.502492312347	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3520.5	Sum of GTIs [s]
livetime	3426.7442765924	Livetime [s]
ontime7	3520.5	Sum of GTIs [s]
l2events	6702	Number of level 2 events



## 2 OBI

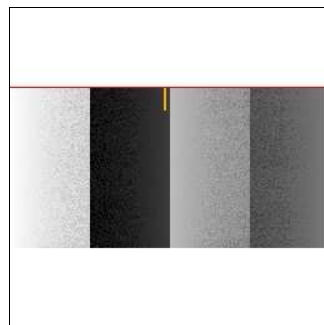
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3520.5	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime7	3520.5	Sum of GTIs [s]
date	2012-10-18T13:51:04	Date and time of file creation	l1events	16538	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	16538
rejected events	9652
rejected %	58%

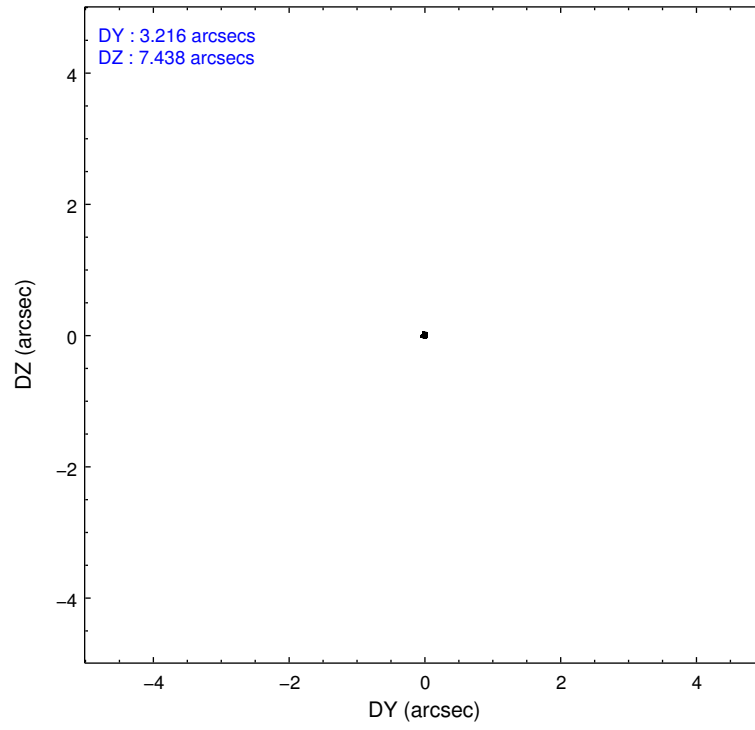
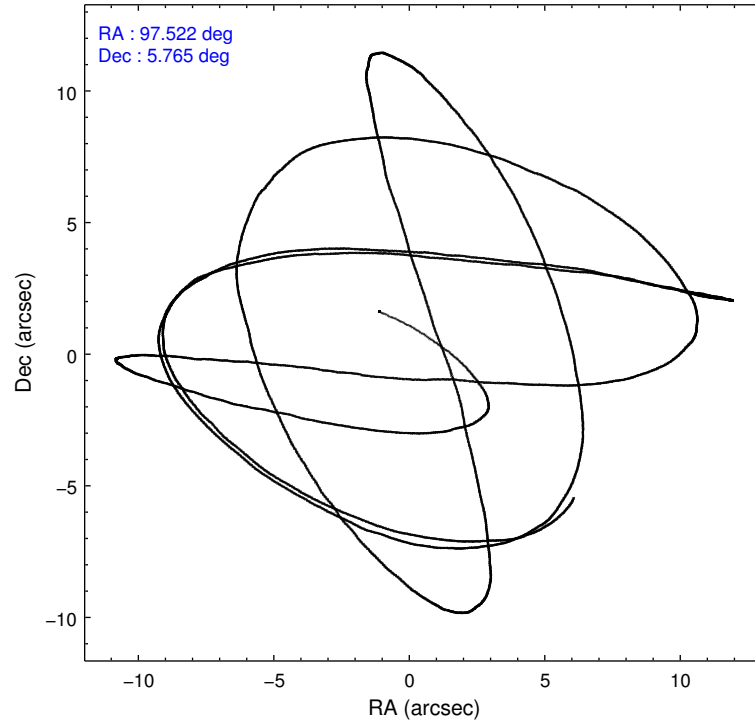
	<b>ccd 7</b>
grade 0 events	777
	4%
grade 1 events	15
	0%
grade 2 events	1477
	8%
grade 3 events	746
	4%
grade 4 events	758
	4%
grade 5 events	1529
	9%
grade 6 events	3628
	21%
grade 7 events	7608
	46%

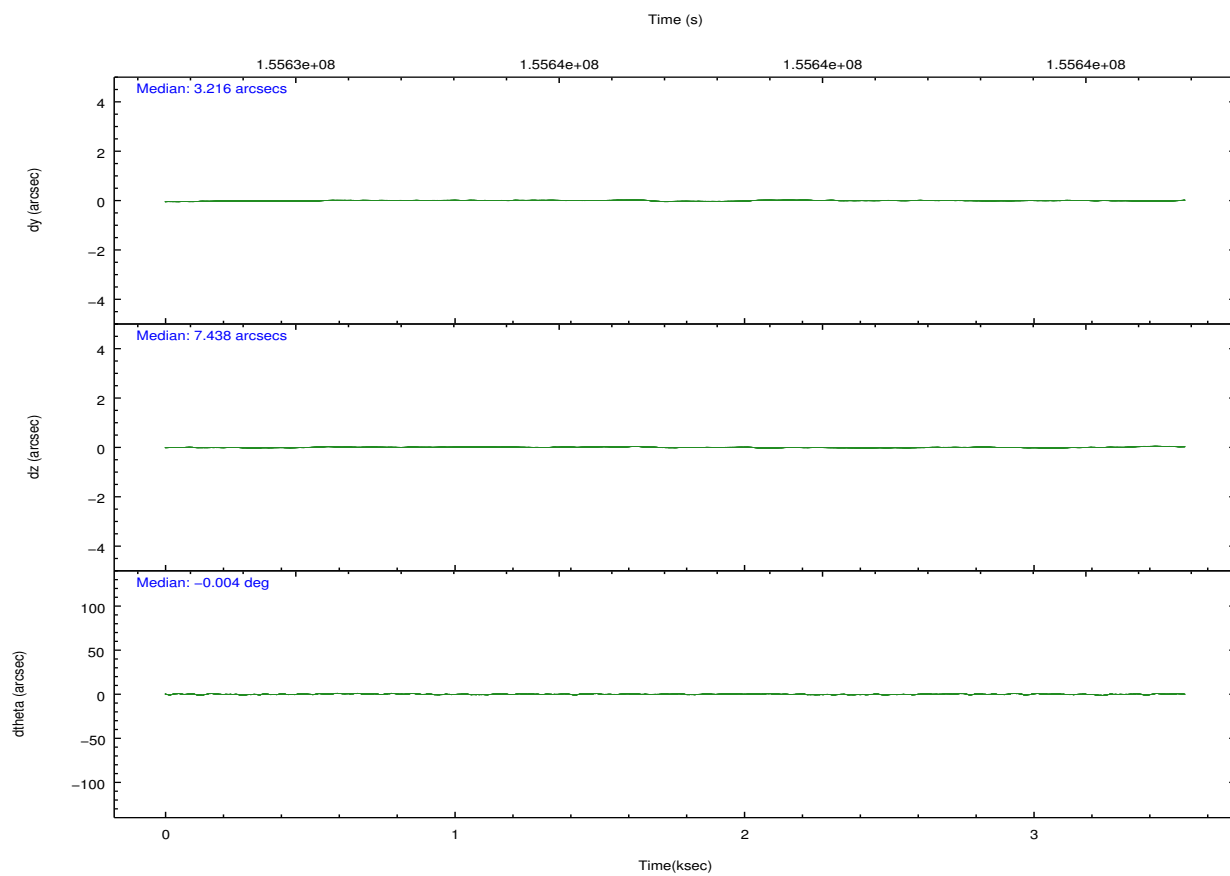
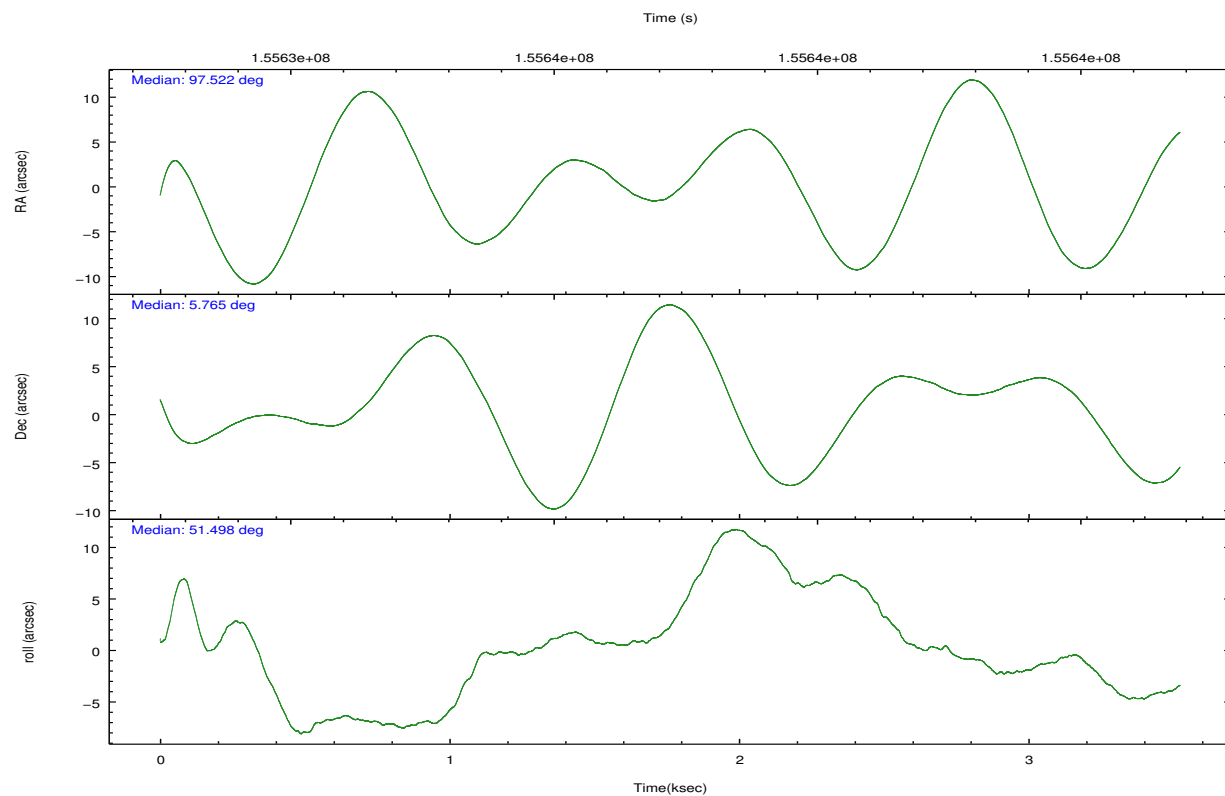


## 2.2 Compared Parameters

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	97.518192	97.52167210335051	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	5.738860	5.765720204410227	Subarray start row	257	257
[deg] Pointing Roll	51.346223	51.50249231234663	Subarray row count	512	512
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.5
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	155634200.184000	155633066.52823			
Observation start date	2002-12-07T07:42:16	2002-12-07T07:24:26			
[s] Observation end time (MET)	155637200.184000	155638036.75344			
Observation end date	2002-12-07T08:32:16	2002-12-07T08:47:16			
Read mode	TIMED	TIMED			

## 2.3 Aspect



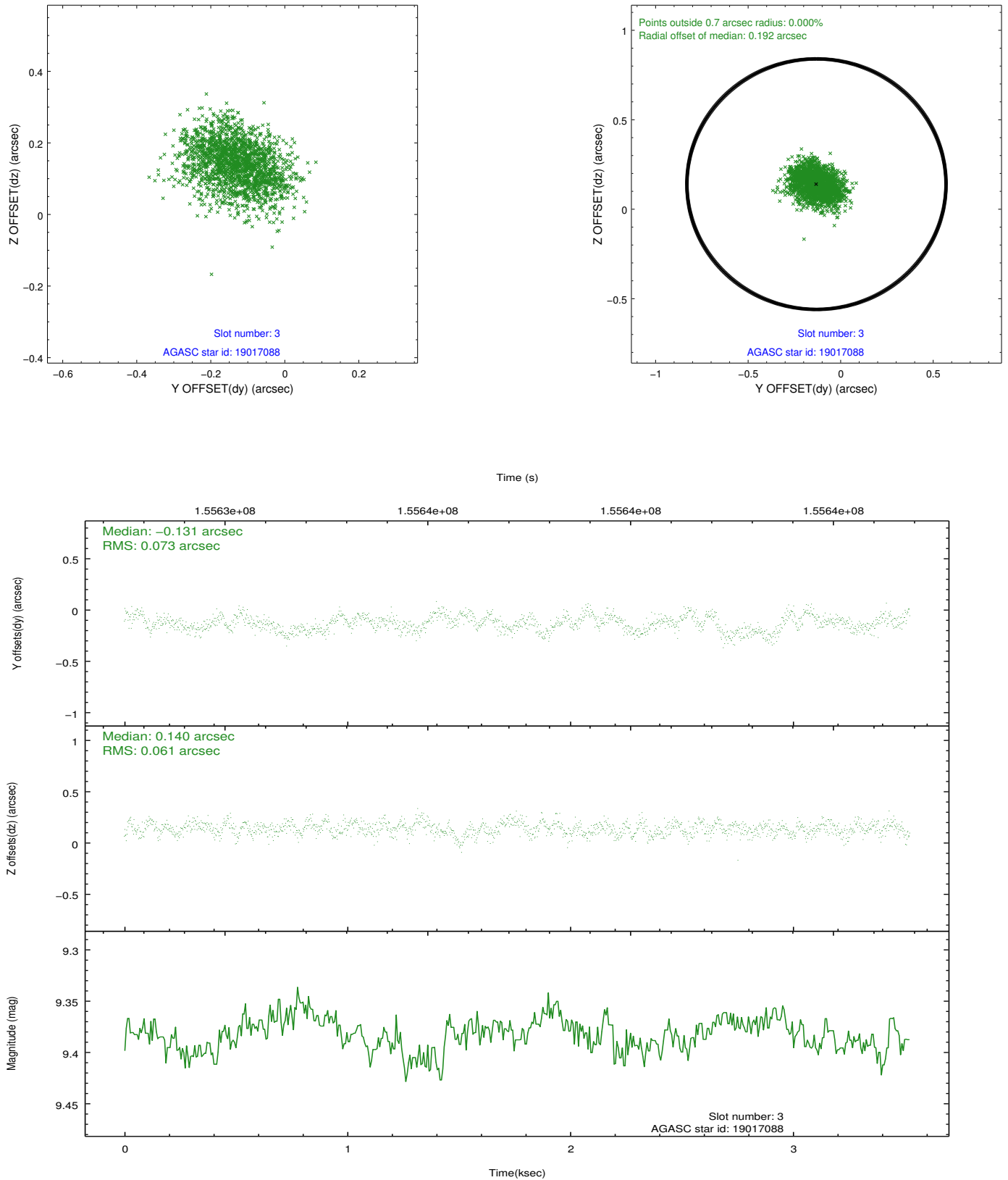


### Slot Statistics

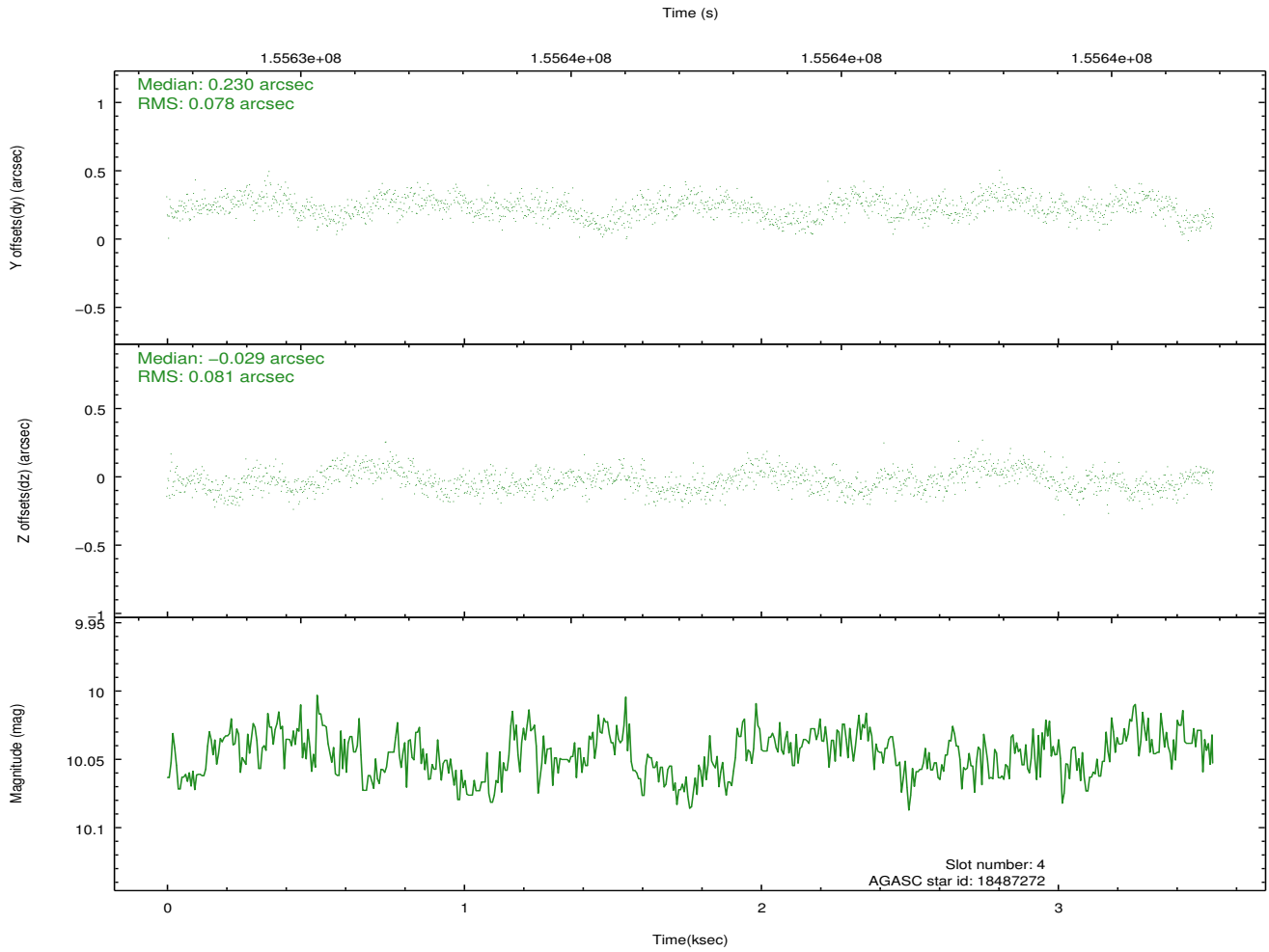
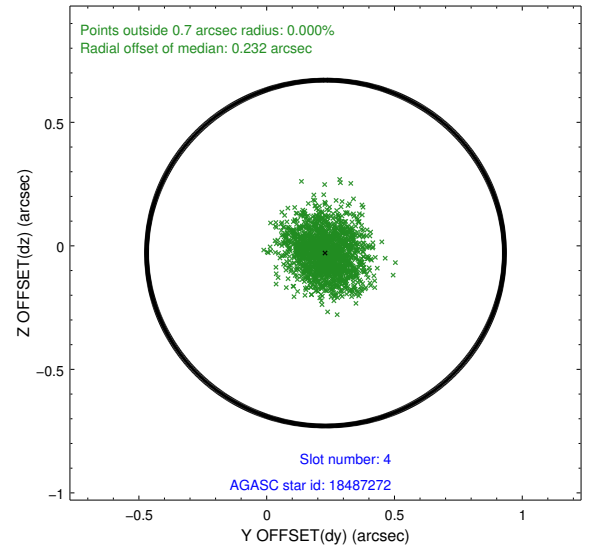
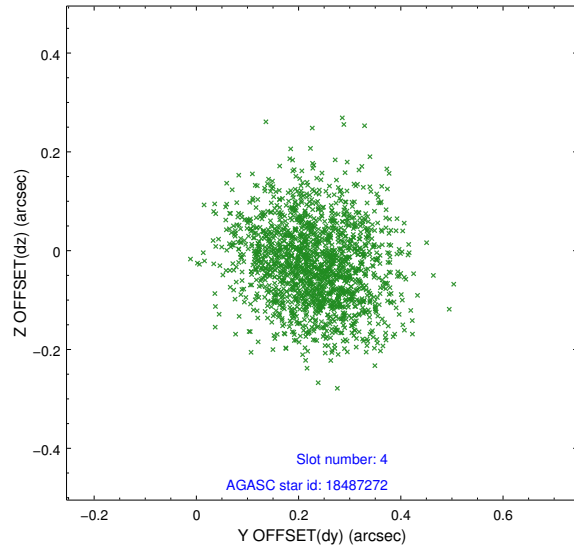
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	860	-0.016	-0.005	0.007	0.011	0.000000	0.000000	-755.88	-1728.62
1	FID	ACIS-S-4	7.20	860	0.008	0.009	0.006	0.010	0.000000	0.000000	2156.62	178.02
2	FID	ACIS-S-5	7.24	860	-0.023	0.005	0.006	0.010	0.000000	0.000000	-1806.42	173.74
3	GUIDE	19017088	9.38	1720	-0.131	0.140	0.103	0.162	97.197742	6.200355	583.24	1933.74
4	GUIDE	18487272	10.05	1714	0.230	-0.029	0.121	0.194	97.064988	5.455833	-1806.96	633.35
5	GUIDE	18483048	9.59	1719	0.070	0.062	0.102	0.163	97.442728	5.344374	-1276.74	-675.44
6	GUIDE	19012544	9.67	1720	-0.107	-0.253	0.088	0.135	97.445681	6.389317	1667.89	1664.77
7	GUIDE	20733888	9.09	1717	-0.062	0.081	0.082	0.130	98.246900	5.800329	1807.59	-1897.76

## 2.4 Star Slots

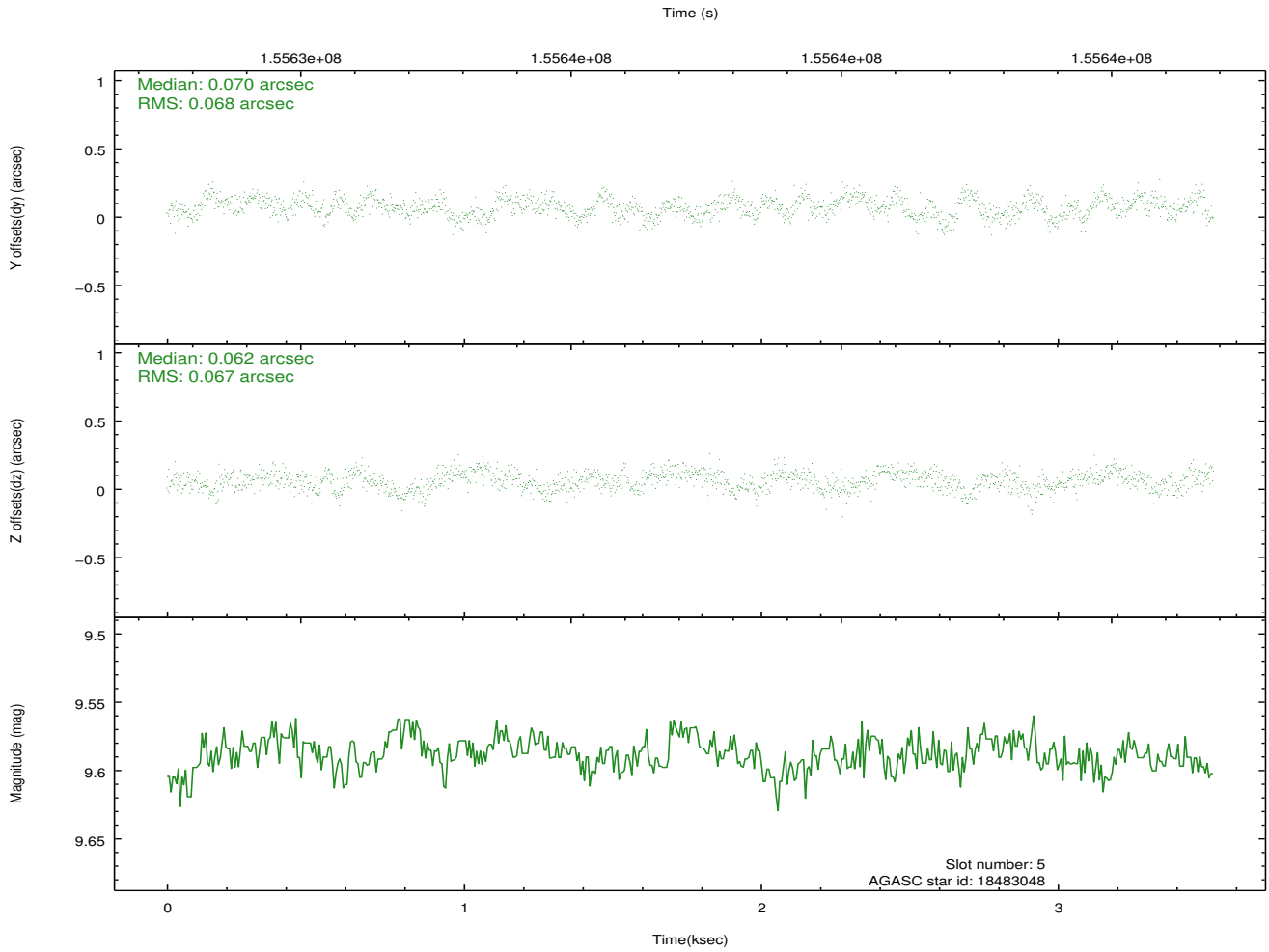
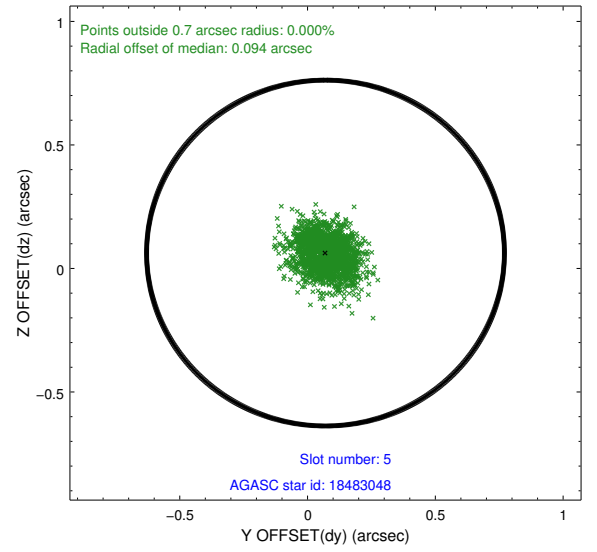
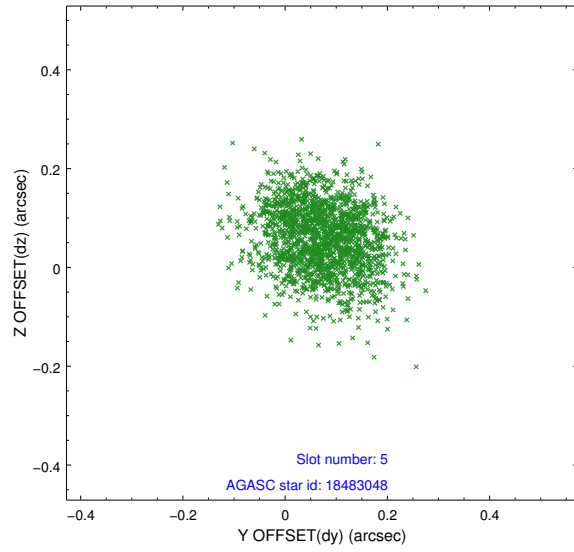
### 2.4.1 Slot 3



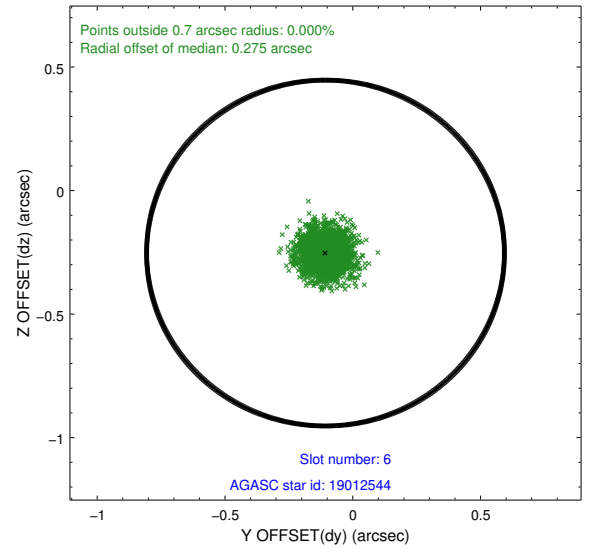
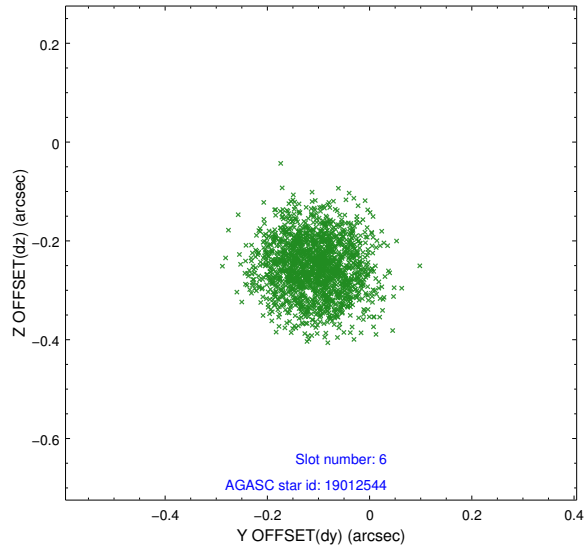
## 2.4.2 Slot 4



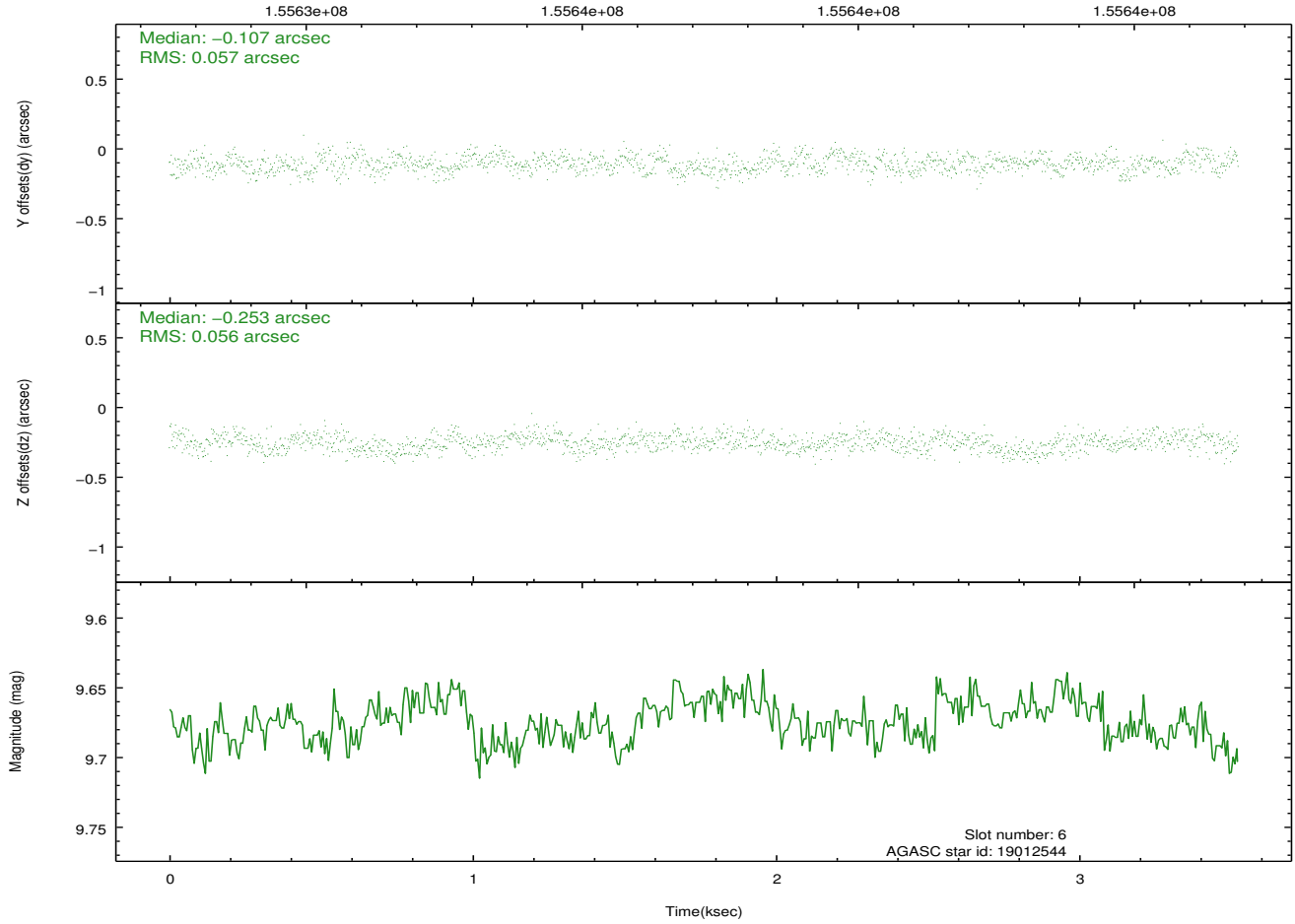
### 2.4.3 Slot 5



## 2.4.4 Slot 6

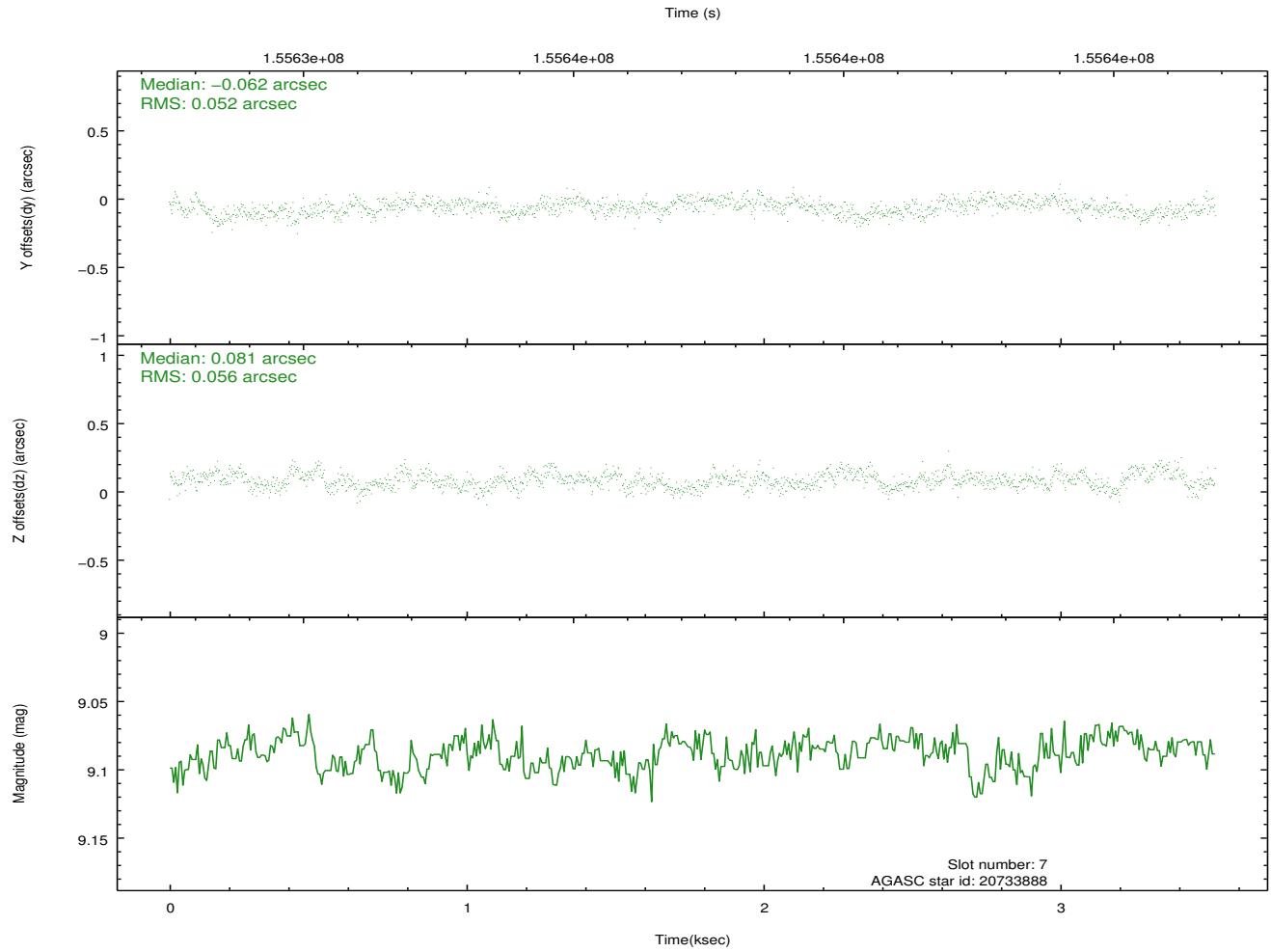
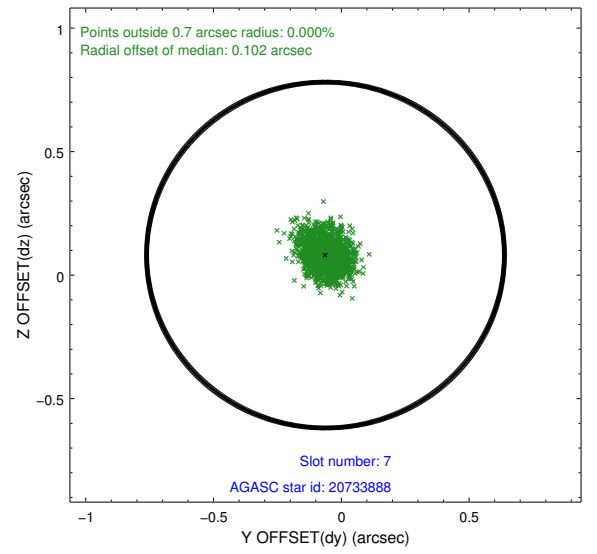
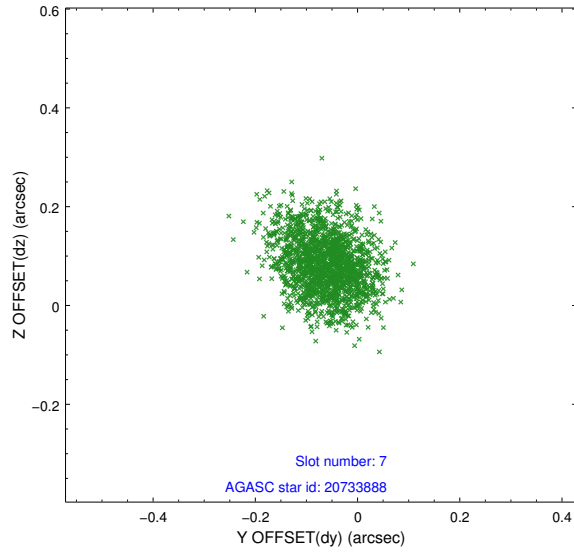


Time (s)



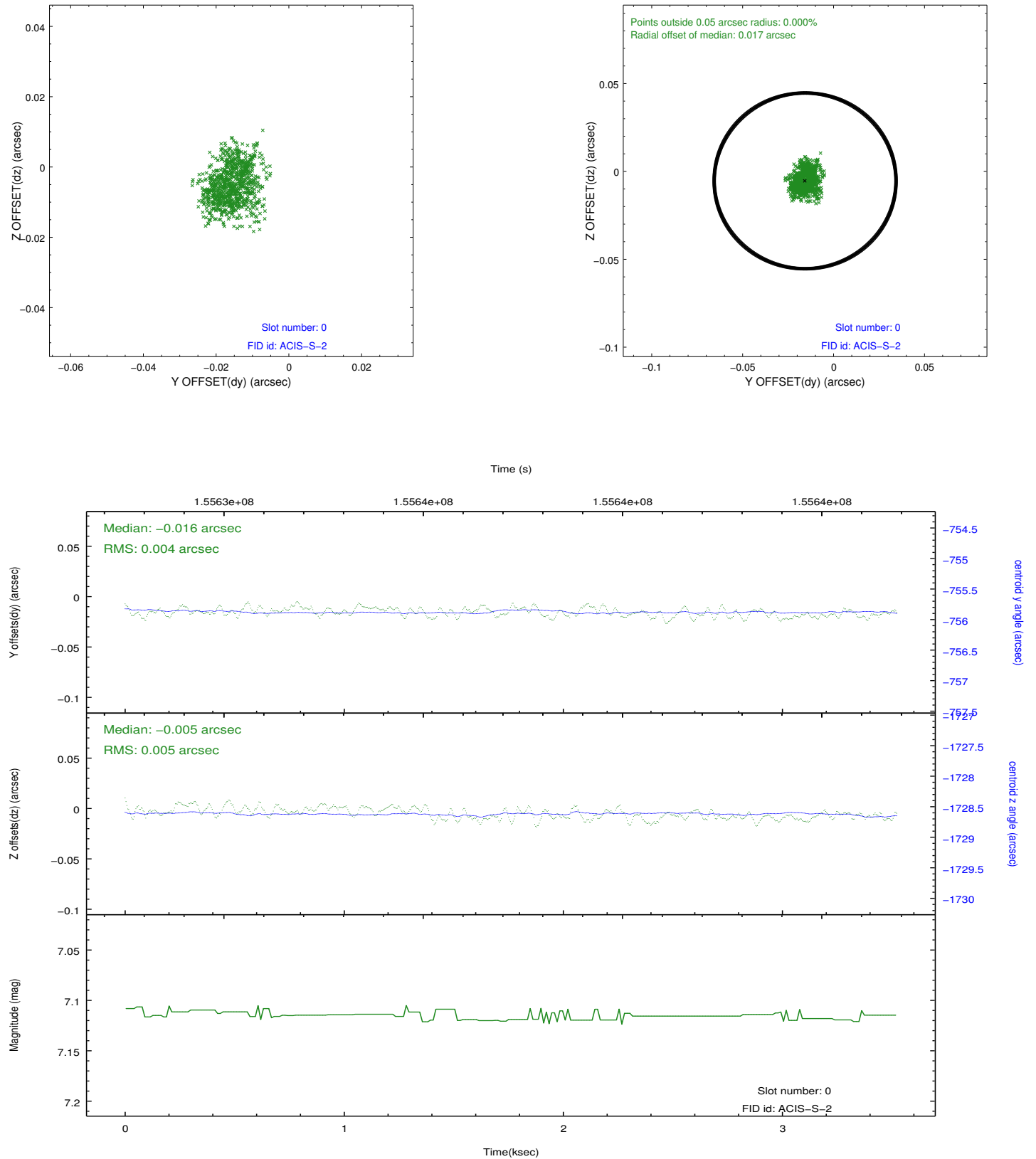


## 2.4.5 Slot 7

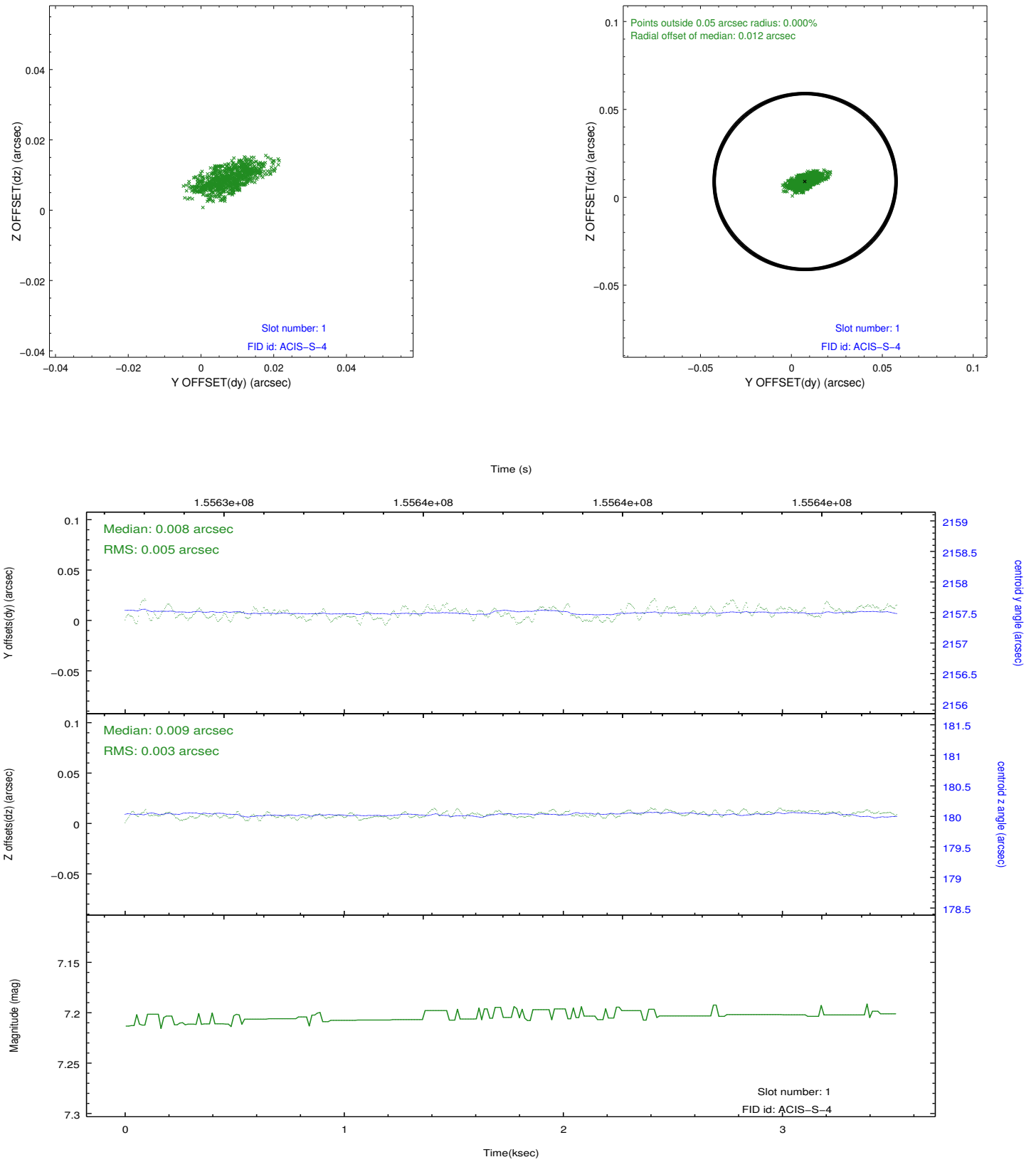


## 2.5 FID Slots

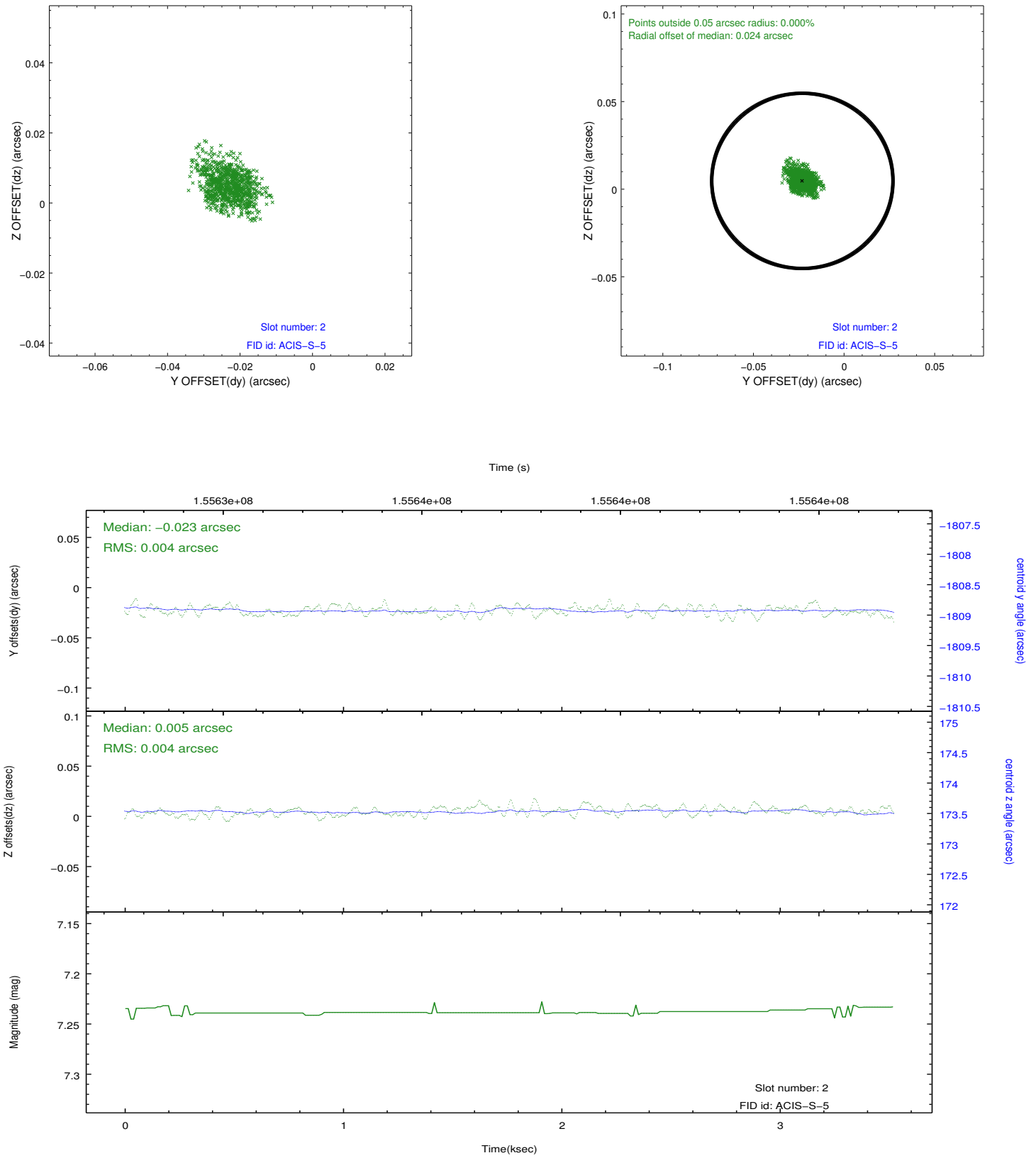
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.52

### A.2 Comments