

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2694 - L2 Version 4  
Chandra X-Ray Center

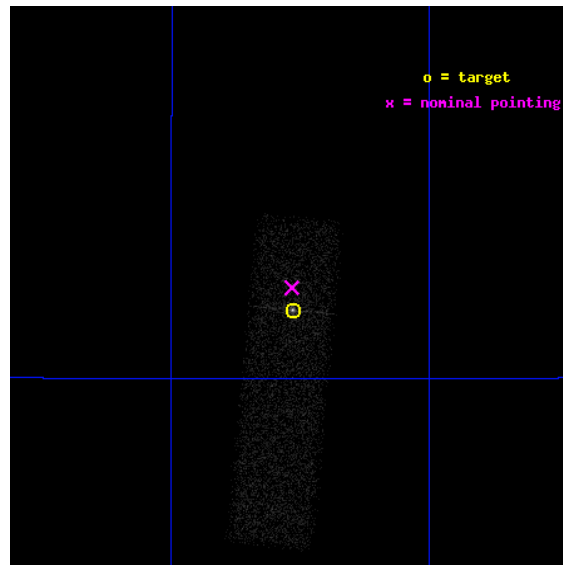
L2 Processing Date : Oct 3 2012

## 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

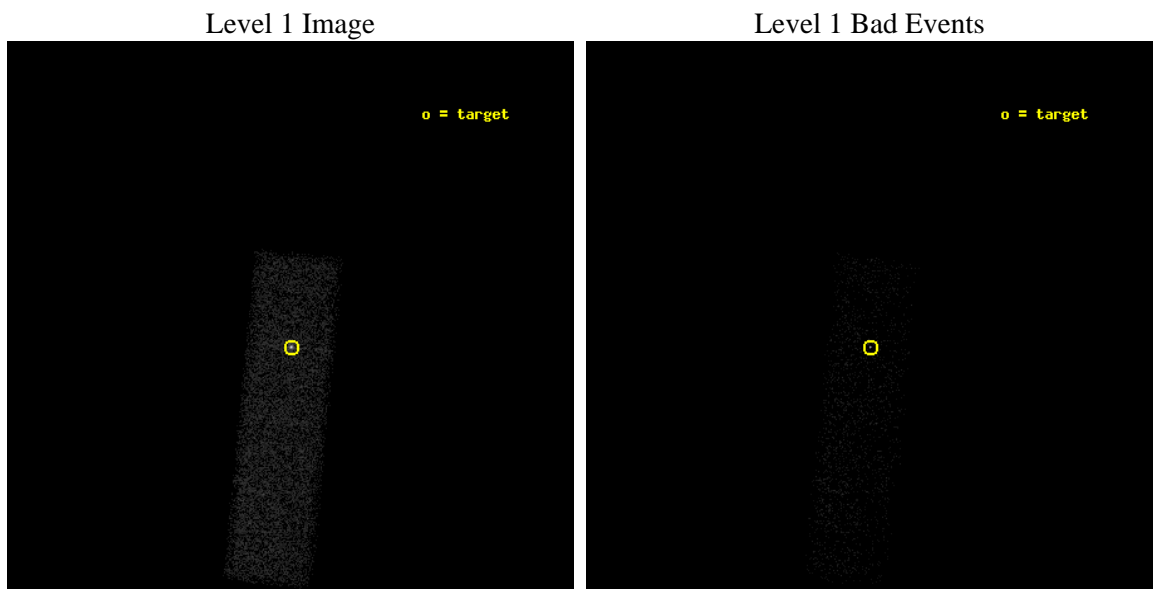
seq_num	400174	Sequence number
obs_id	2694	Observation id
title	THE FAINTEST 'FIELD' LOW-MASS X-RAY BINARIES	Proposal title
observer	PROF MICHIEL VAN DER KLIS	Principal investigator
object	1603.6+2600	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	241.440833	Observer's specified target RA [deg]
dec_targ	25.8625	Observer's specified target Dec [deg]
ra_nom	241.44169273716	Nominal RA [deg]
dec_nom	25.872120406041	Nominal Dec [deg]
roll_nom	95.581927146504	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7353.5999726206	Sum of GTIs [s]
livetime	6994.7683559599	Livetime [s]
ontime7	7353.5999726206	Sum of GTIs [s]
l2events	13079	Number of level 2 events



## 2 OBI

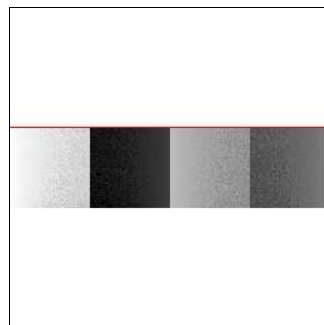
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7353.5999726206	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime7	7353.5999726206	Sum of GTIs [s]
date	2012-10-03T19:47:43	Date and time of file creation	l1events	25760	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	25760
rejected events	12448
rejected %	48%

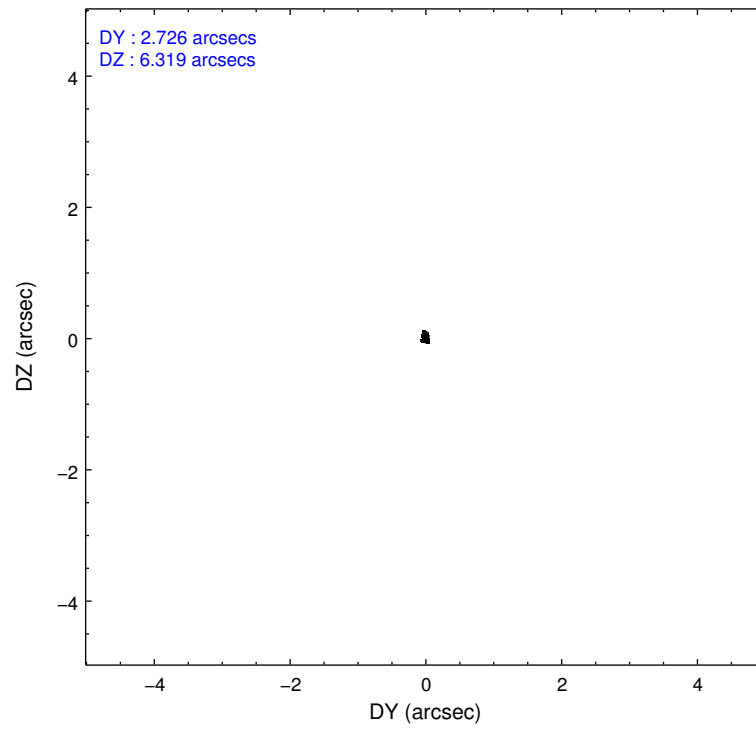
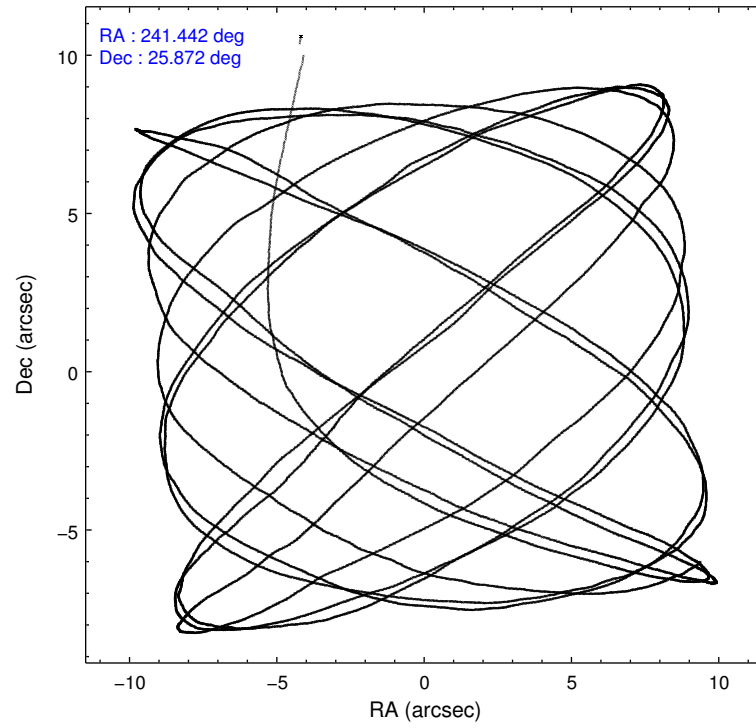
	<b>ccd 7</b>
grade 0 events	2306
	8%
grade 1 events	140
	0%
grade 2 events	3083
	11%
grade 3 events	1615
	6%
grade 4 events	1549
	6%
grade 5 events	2238
	8%
grade 6 events	5735
	22%
grade 7 events	9094
	35%

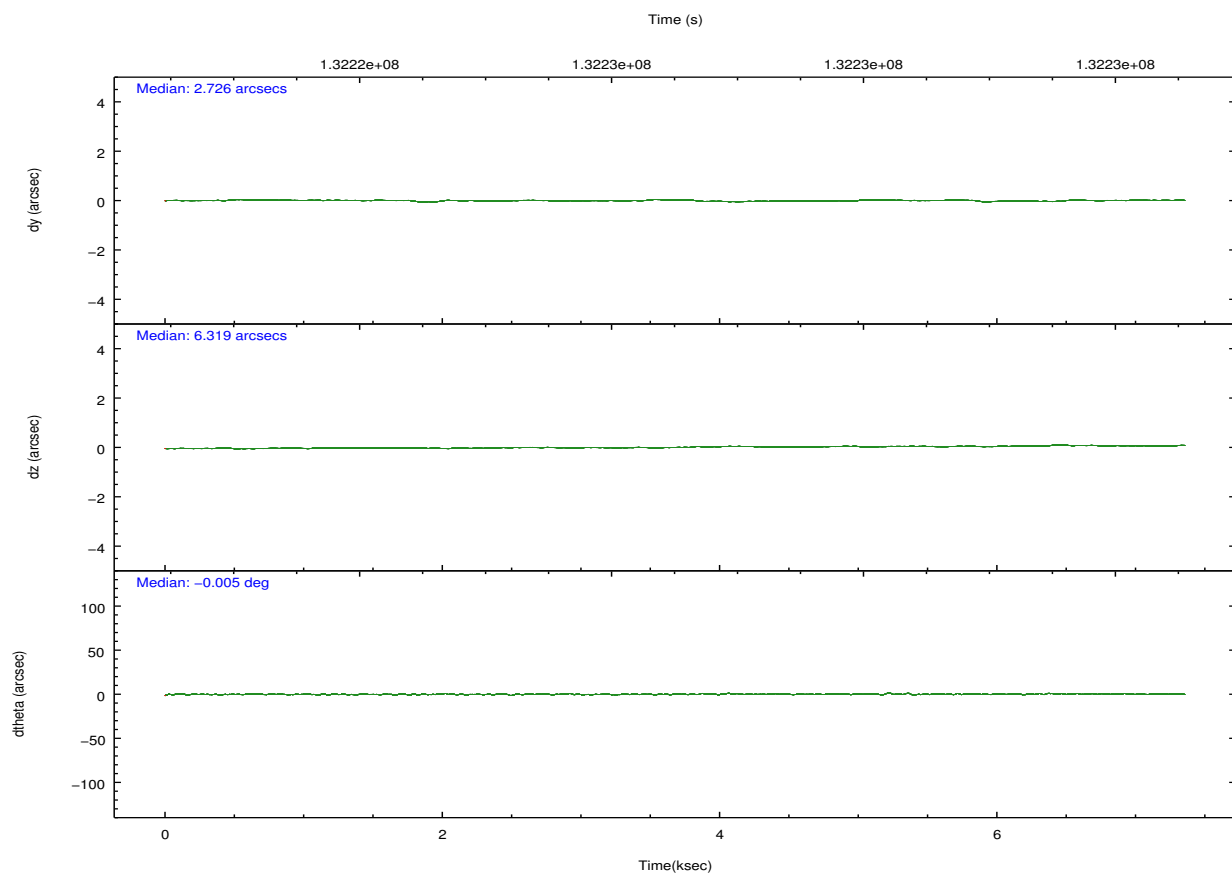
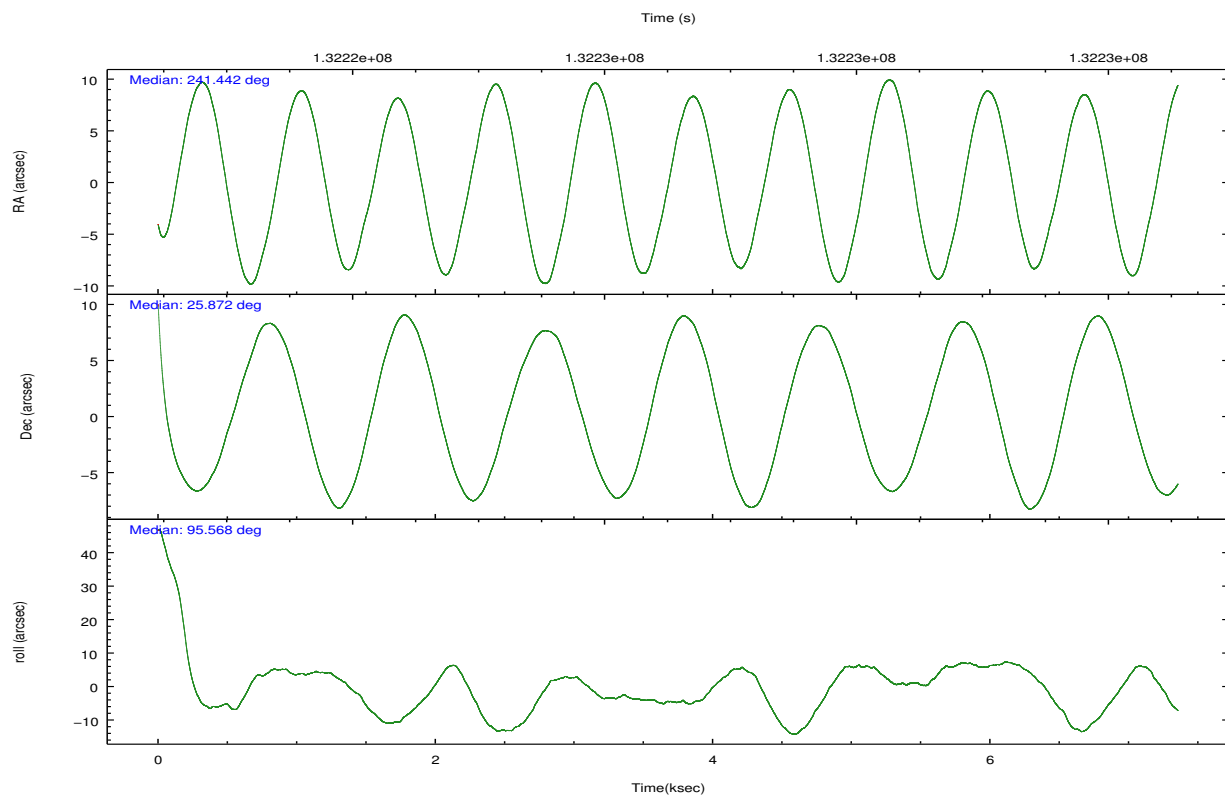


## 2.2 Compared Parameters

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	241.459615	241.4416927371611	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	25.850206	25.87212040604126	Subarray start row	384	385
[deg] Pointing Roll	95.417449	95.58192714650434	Subarray row count	256	256
[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	0.8
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	132222980.184000	132221935.90344			
Observation start date	2002-03-11T08:35:16	2002-03-11T08:18:55			
[s] Observation end time (MET)	132230180.184000	132230831.8788			
Observation end date	2002-03-11T10:35:16	2002-03-11T10:47:11			
Read mode	TIMED	TIMED			

## 2.3 Aspect



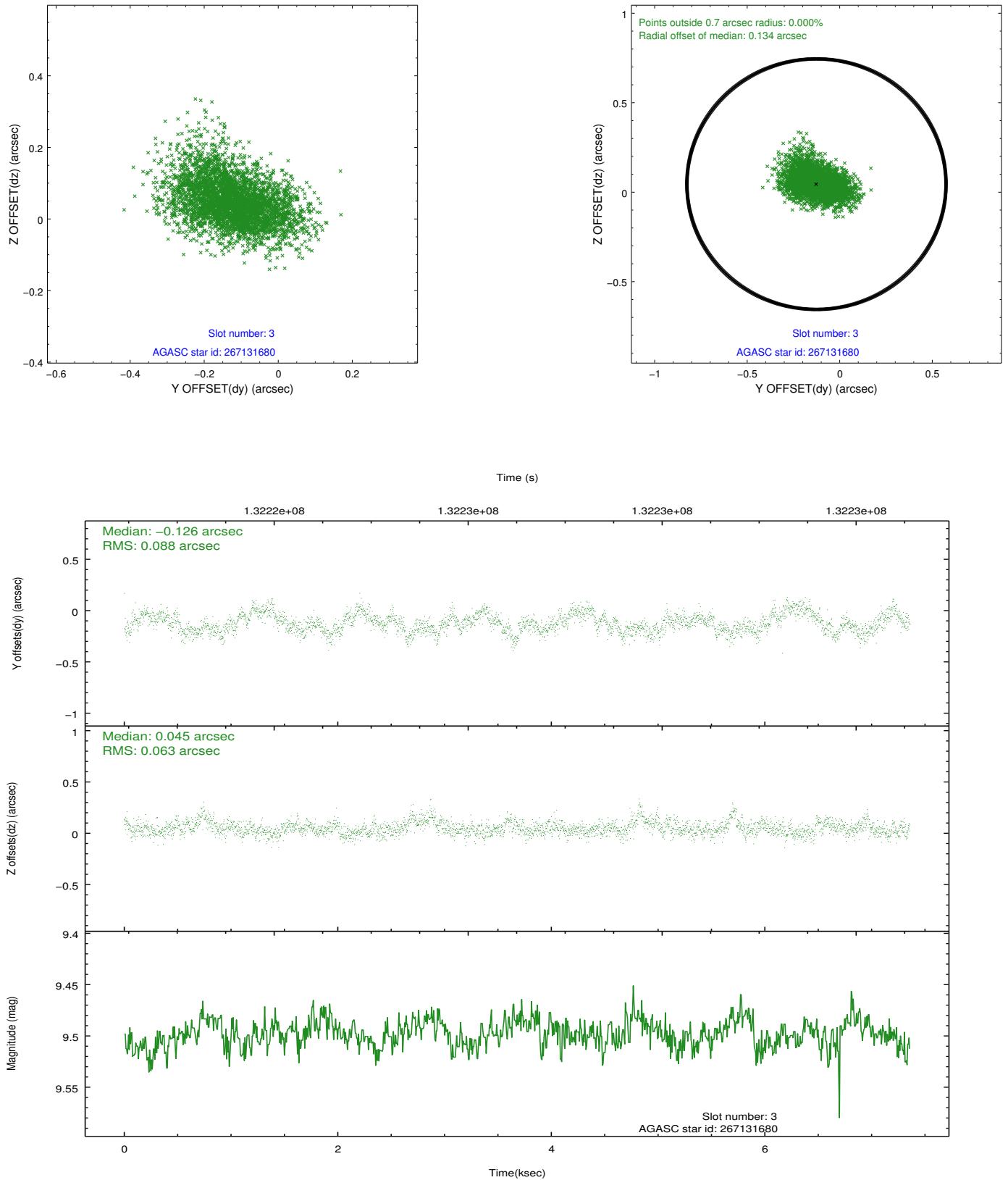


### Slot Statistics

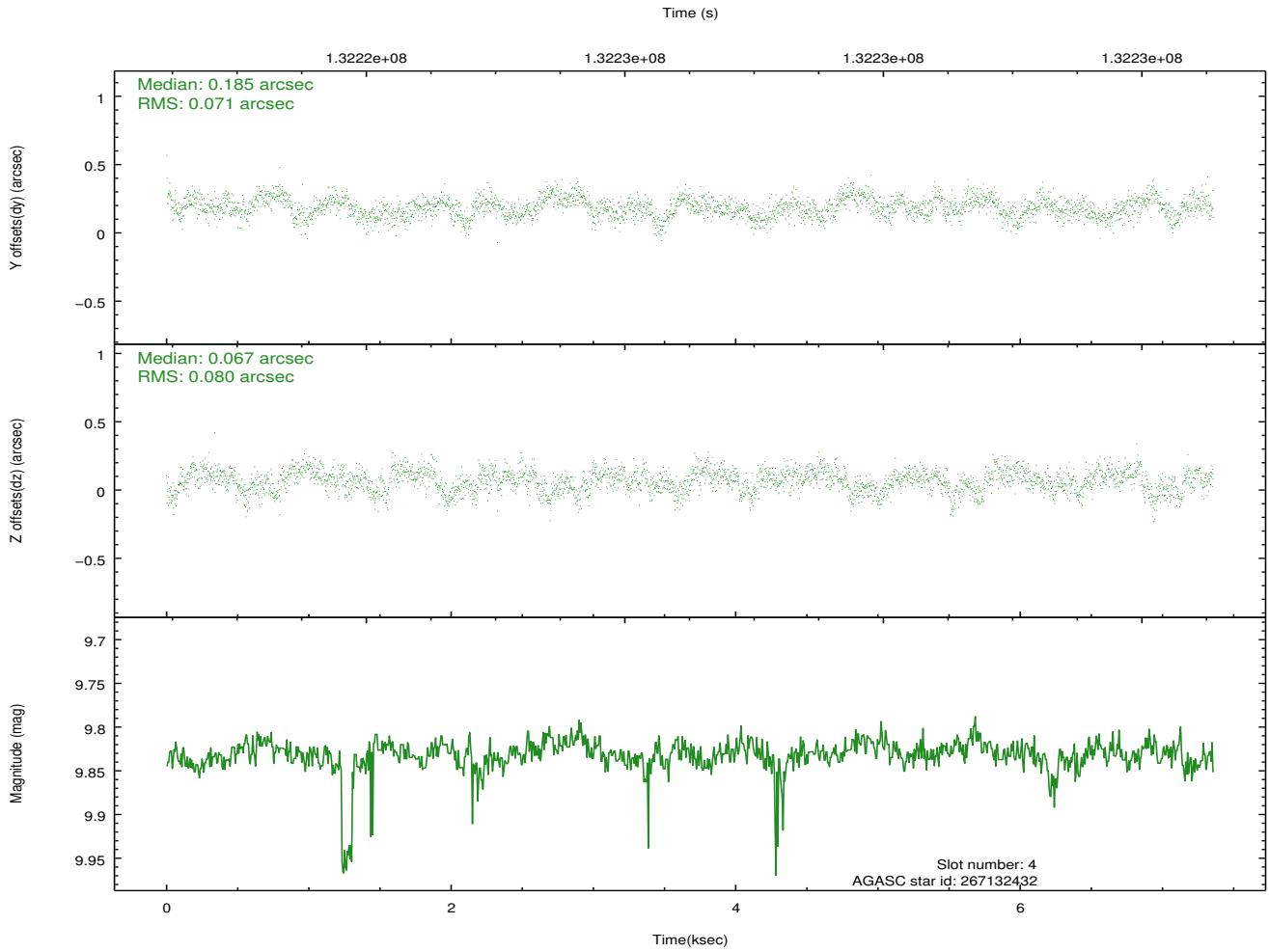
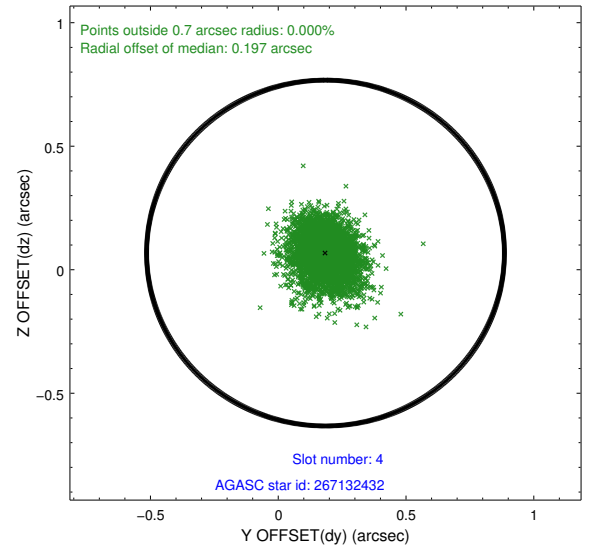
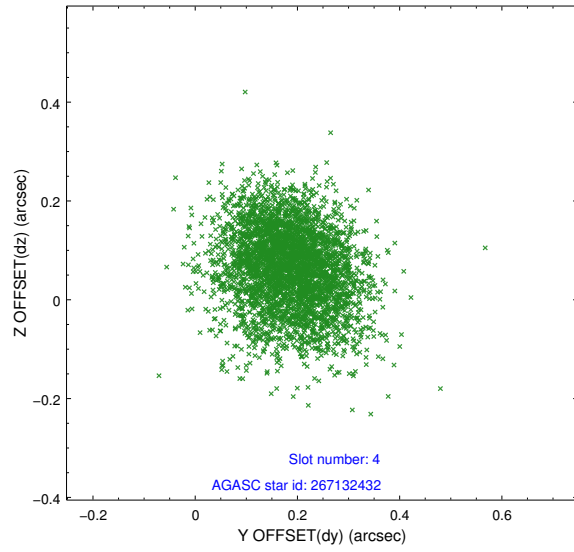
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	1795	-0.033	0.009	0.007	0.011	0.000000	0.000000	-755.35	-1727.43
1	FID	ACIS-S-4	7.20	1795	-0.027	0.014	0.005	0.009	0.000000	0.000000	2157.54	180.32
2	FID	ACIS-S-5	7.24	1795	0.029	-0.014	0.007	0.011	0.000000	0.000000	-1807.17	174.76
3	GUIDE	267131680	9.50	3584	-0.126	0.045	0.114	0.194	241.730931	26.253055	1362.13	-1008.88
4	GUIDE	267132432	9.83	3582	0.185	0.067	0.114	0.185	241.946922	25.426777	-1663.27	-1434.53
5	GUIDE	267125408	9.76	3553	-0.086	0.059	0.103	0.176	241.735488	26.109472	845.74	-976.17
6	GUIDE	267126264	10.09	3586	-0.135	0.068	0.181	0.299	241.879465	26.278876	1411.06	-1495.17
7	GUIDE	267129952	10.03	3585	0.170	-0.249	0.133	0.220	240.908556	25.352869	-1609.33	1952.38

## 2.4 Star Slots

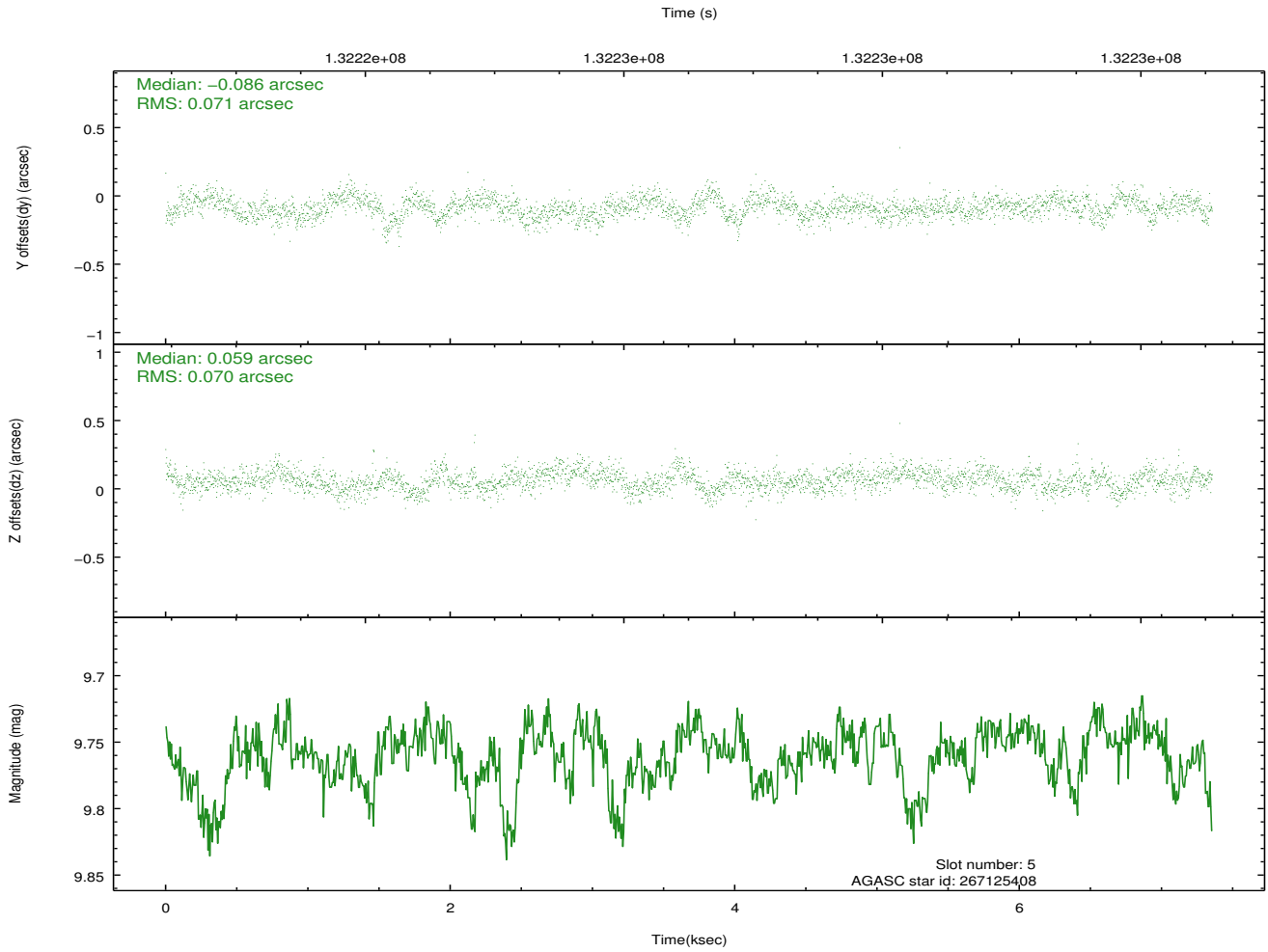
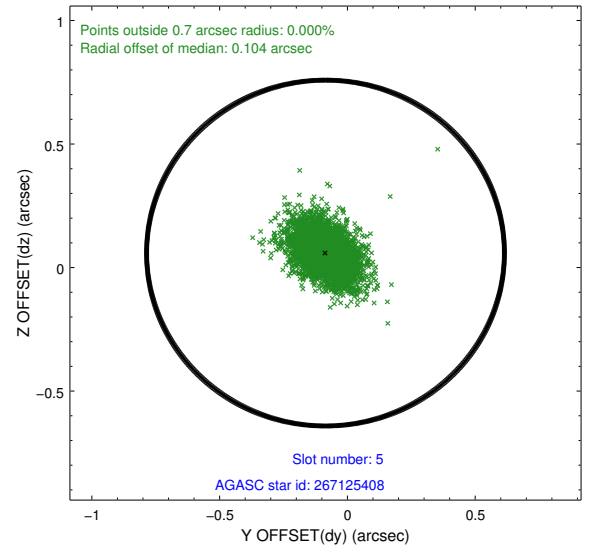
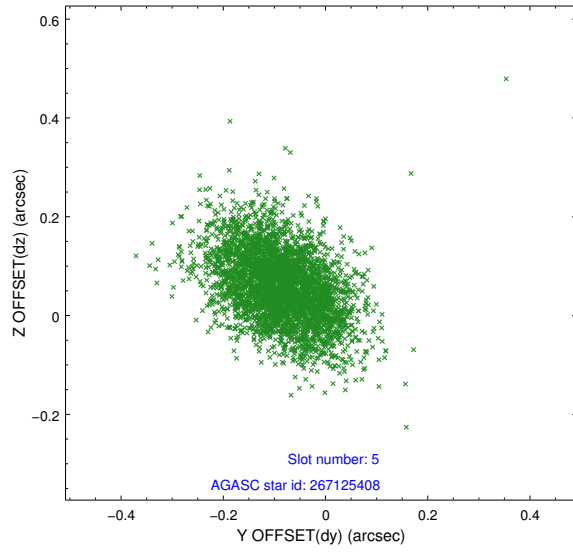
### 2.4.1 Slot 3



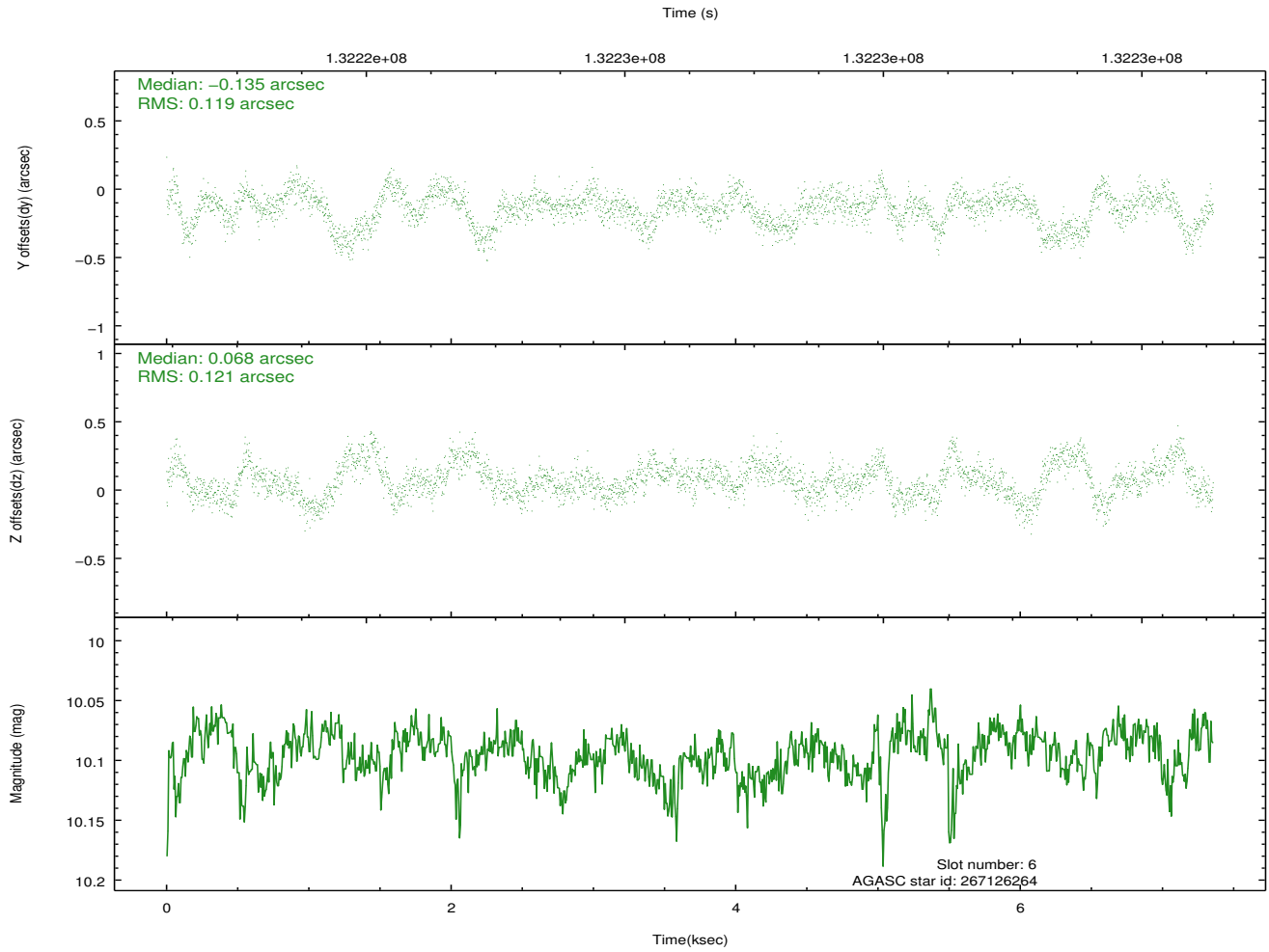
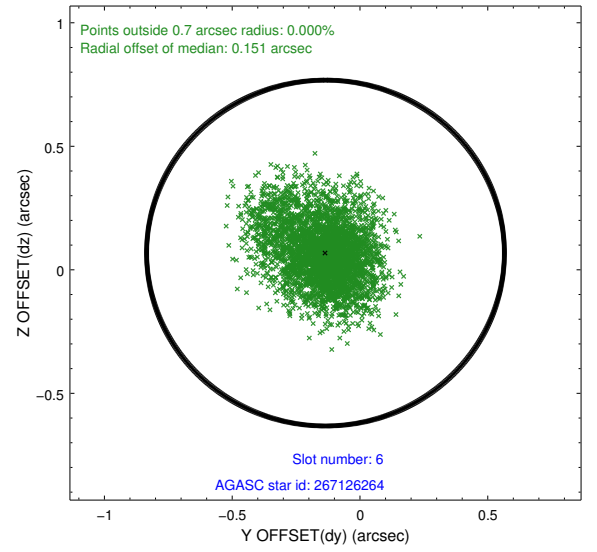
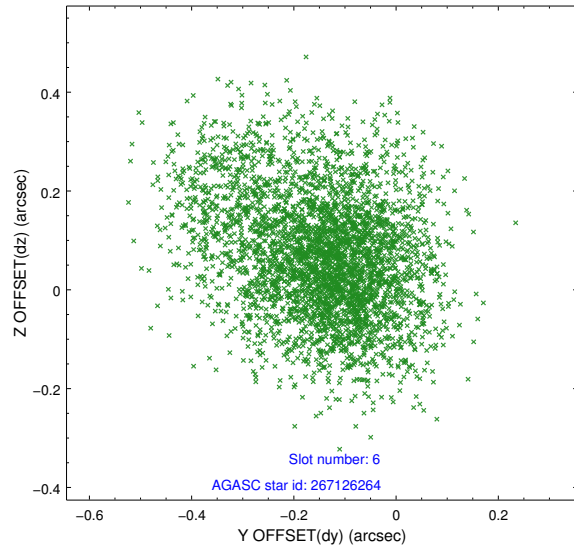
## 2.4.2 Slot 4



### 2.4.3 Slot 5

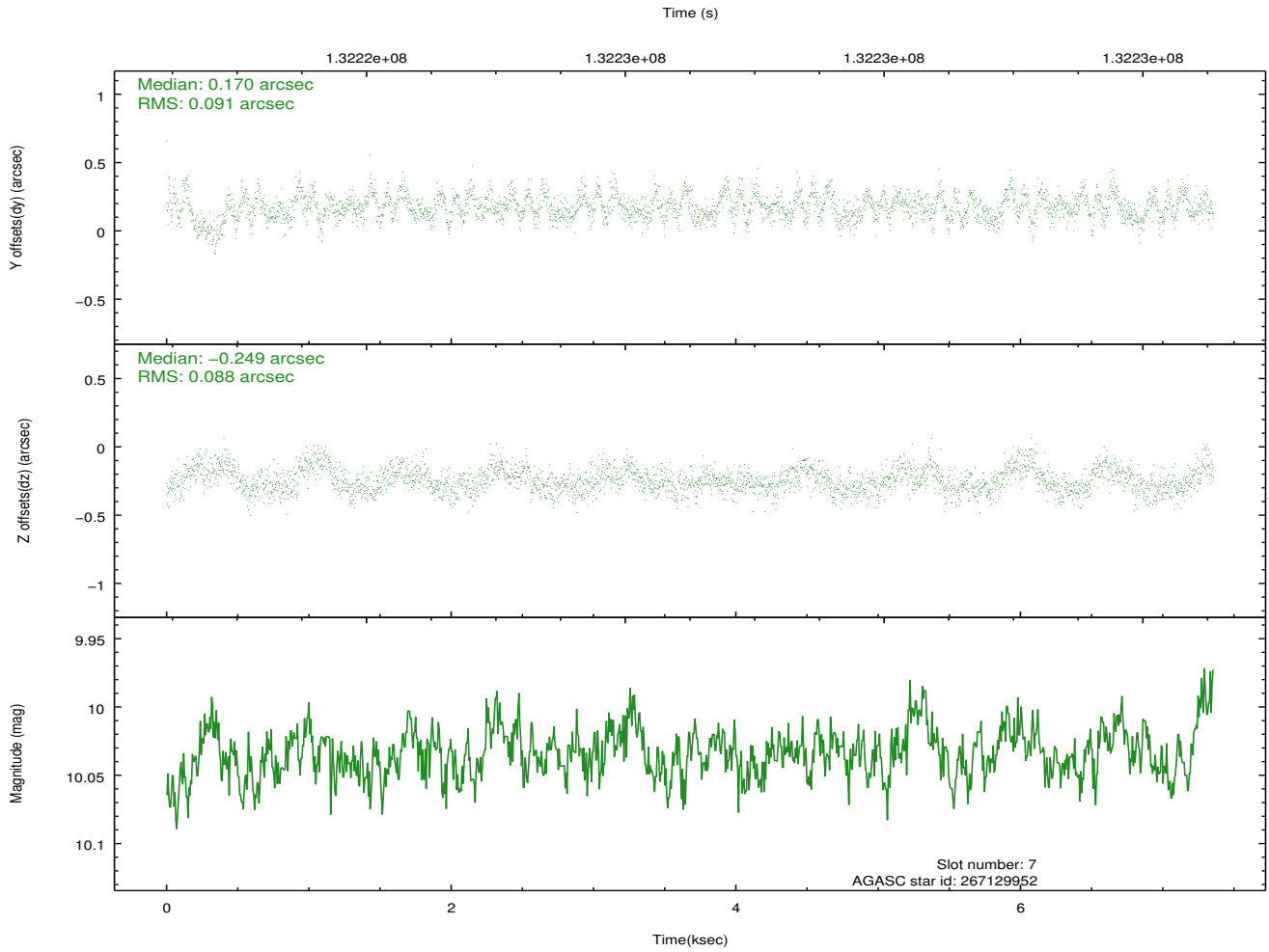
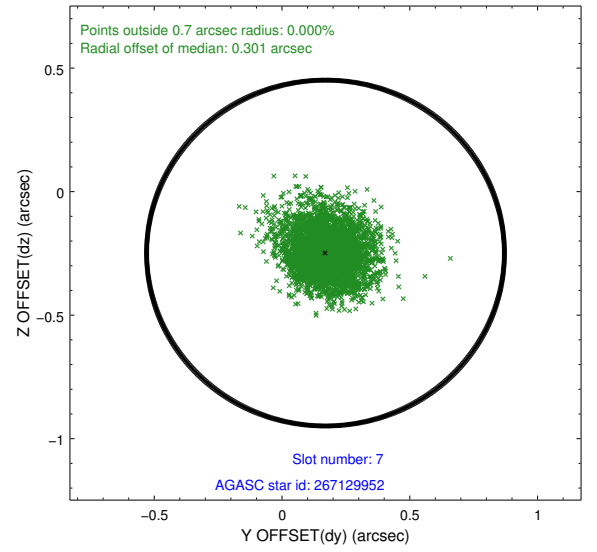
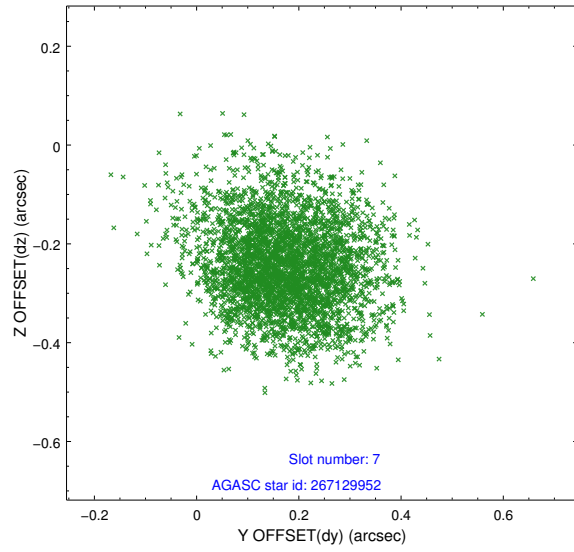


## 2.4.4 Slot 6



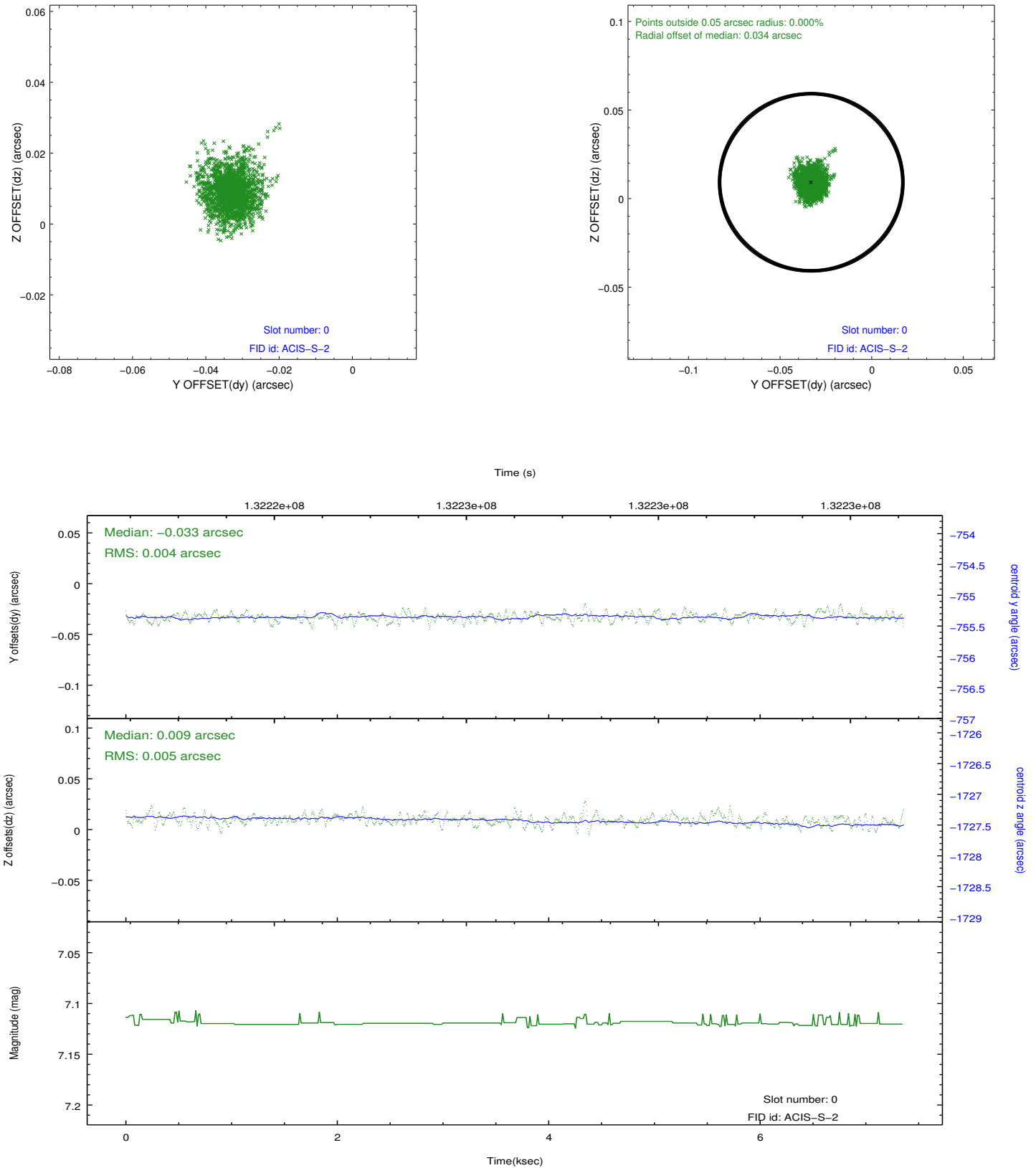


## 2.4.5 Slot 7

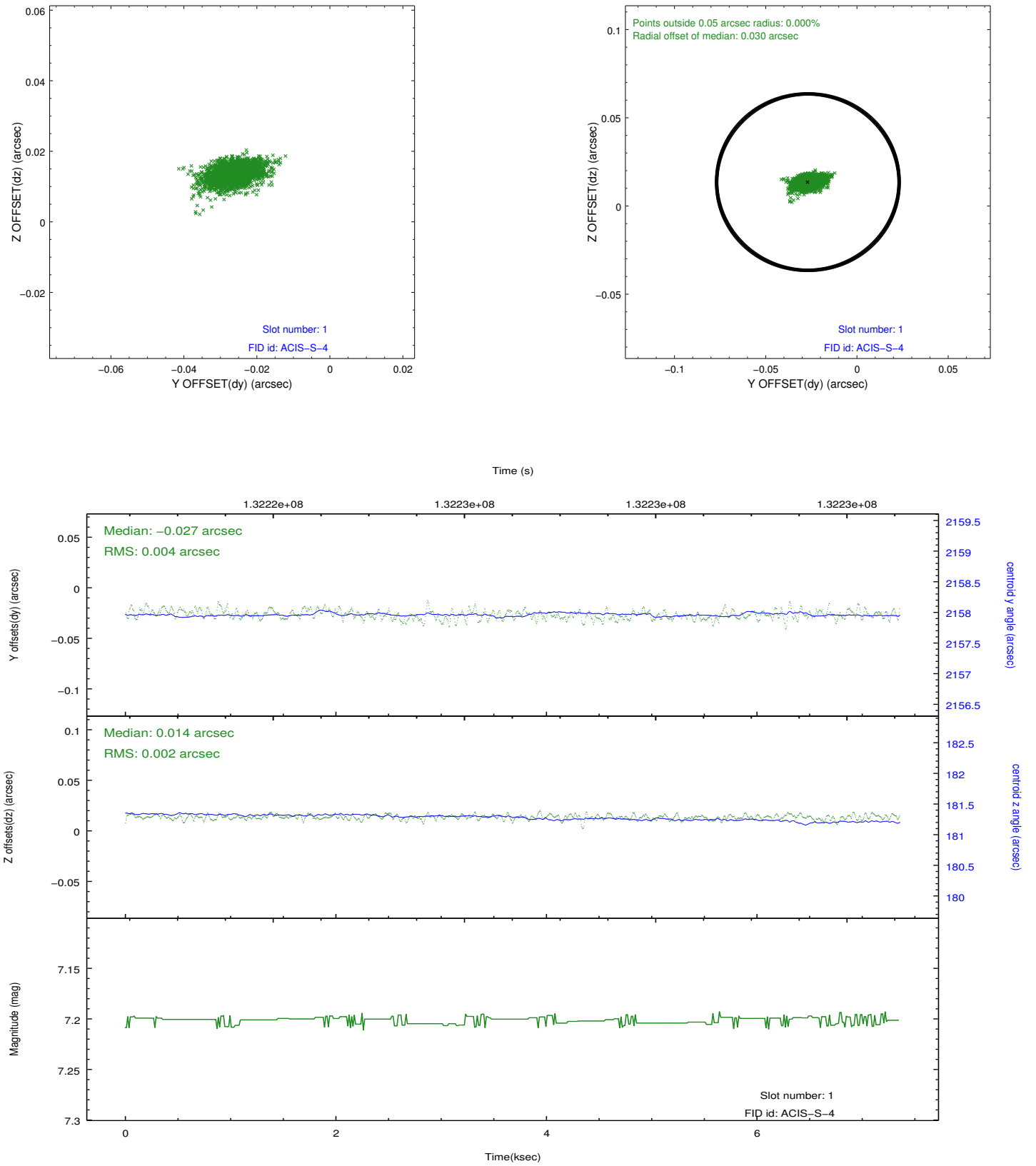


## 2.5 FID Slots

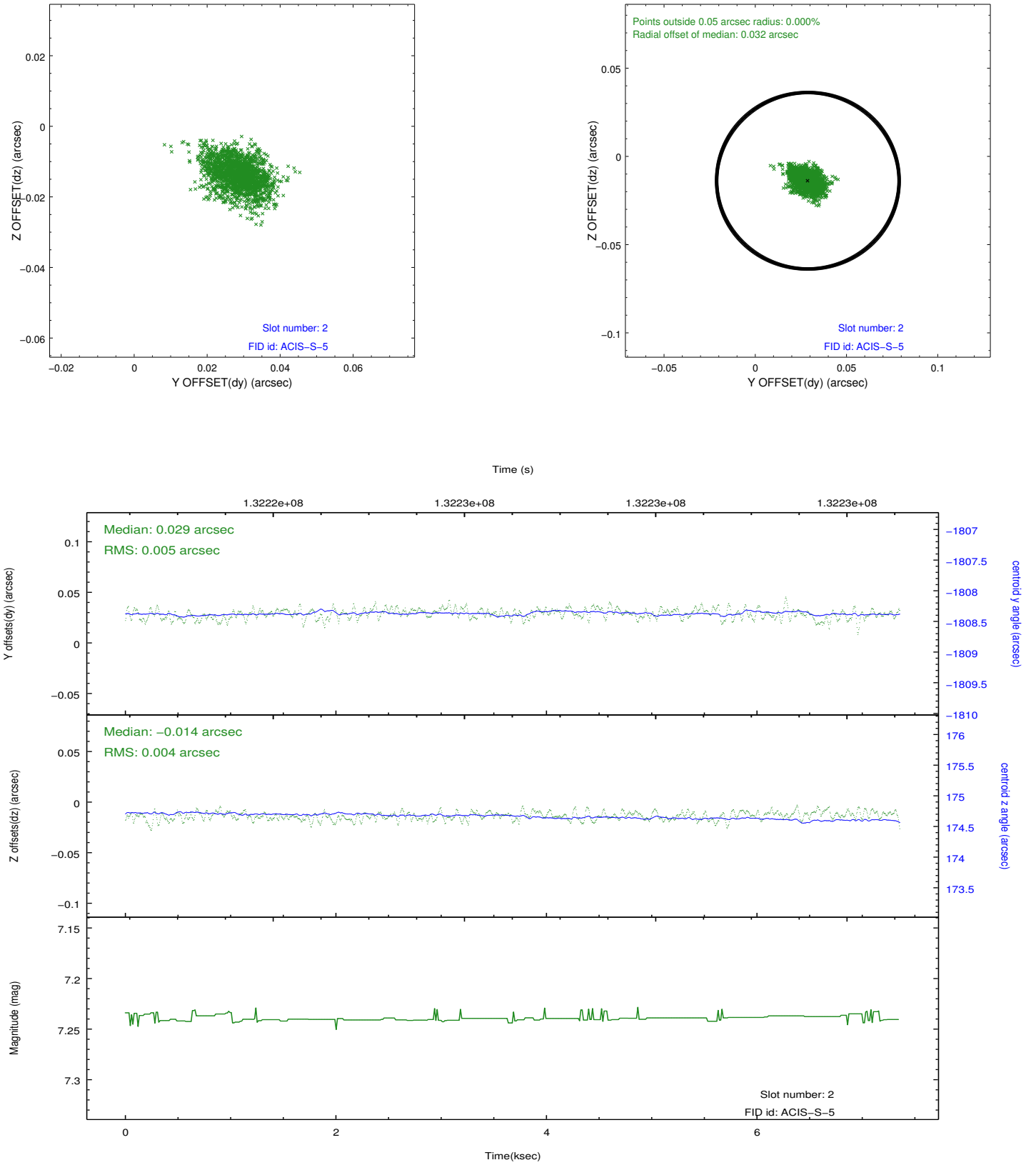
### 2.5.1 Slot 0



## 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)	2012.12.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.353

### A.2 Comments