

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 5283 - L2 Version 3  
Chandra X-Ray Center

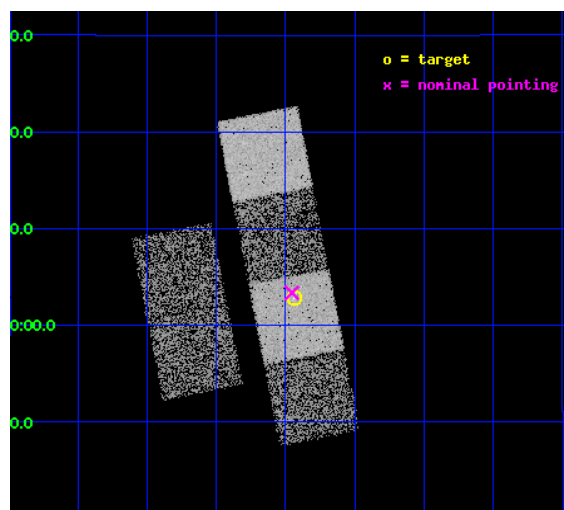
L2 Processing Date : Nov 11 2012

## 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

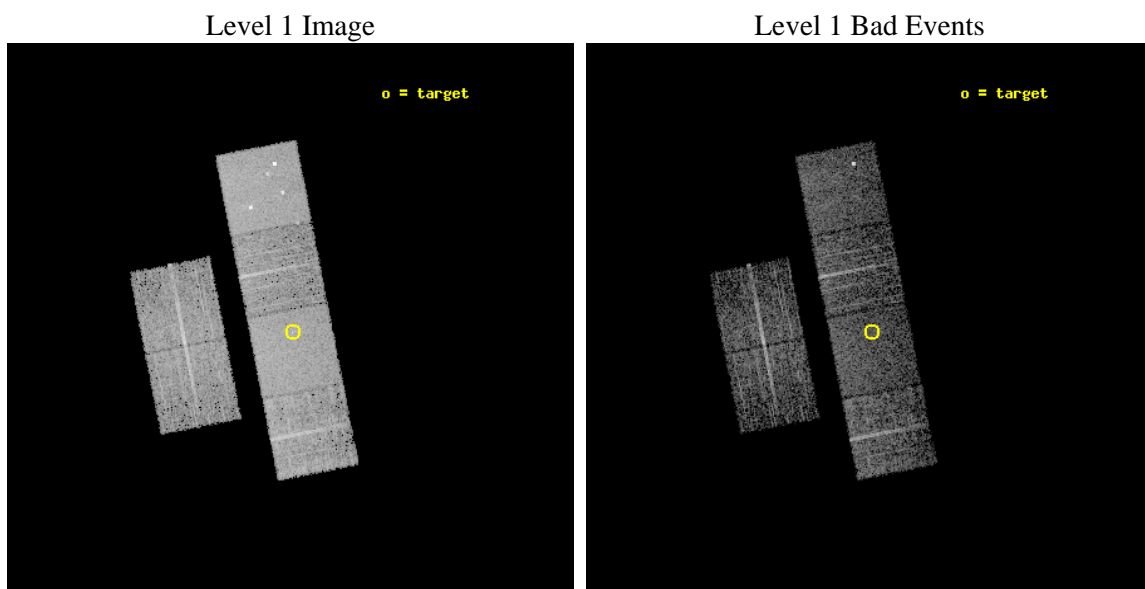
seq_num	701012	Sequence number
obs_id	5283	Observation id
title	A CHANDRA SURVEY OF INFRARED-BRIGHT LINER GALAXIES	Proposal title
observer	Dr. Shobita Satyapal	Principal investigator
object	NGC4419	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.735	Observer's specified target RA [deg]
dec_targ	15.047222	Observer's specified target Dec [deg]
ra_nom	186.73865280959	Nominal RA [deg]
dec_nom	15.056291965772	Nominal Dec [deg]
roll_nom	78.912738085591	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5126.3999809027	Sum of GTIs [s]
livetime	5061.486417597	Livetime [s]
ontime2	5126.3999809027	Sum of GTIs [s]
ontime3	5126.3999809027	Sum of GTIs [s]
ontime5	5126.3999809027	Sum of GTIs [s]
ontime6	5126.3999809027	Sum of GTIs [s]
ontime7	5126.3999809027	Sum of GTIs [s]
ontime8	5126.3999809027	Sum of GTIs [s]
l2events	50853	Number of level 2 events



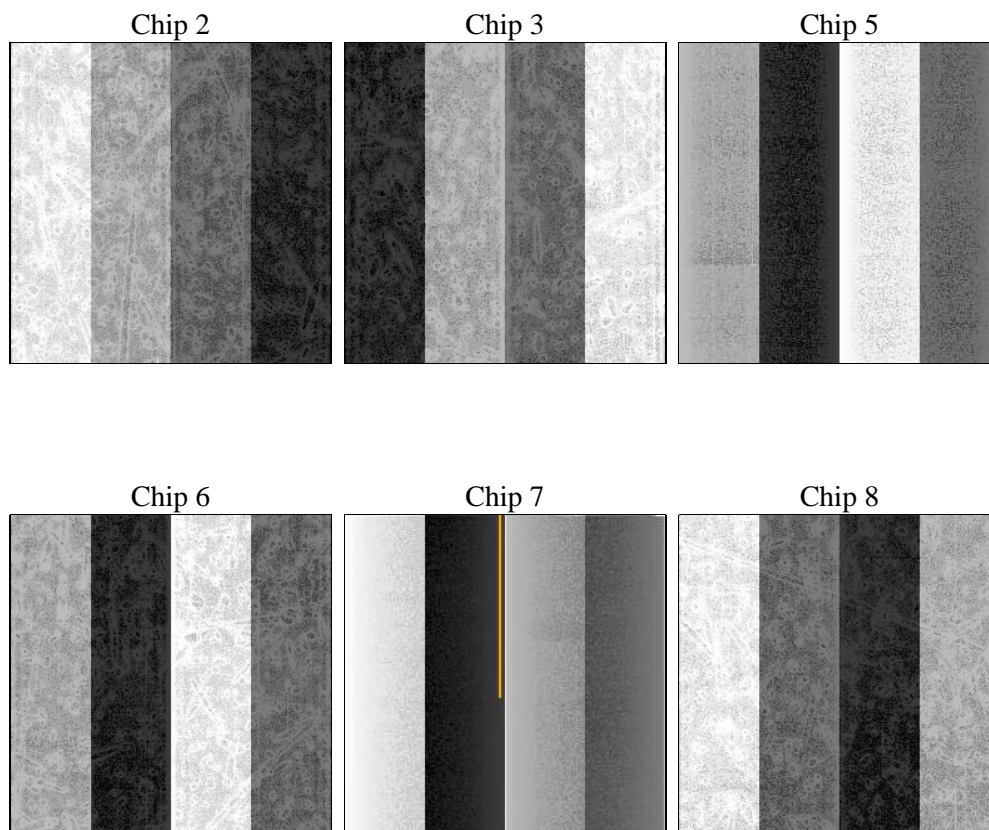
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5126.3999809027	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime2	5126.3999809027	Sum of GTIs [s]
date	2012-11-11T14:29:11	Date and time of file creation	ontime3	5126.3999809027	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5126.3999809027	Sum of GTIs [s]
			ontime6	5126.3999809027	Sum of GTIs [s]
			ontime7	5126.3999809027	Sum of GTIs [s]
			ontime8	5126.3999809027	Sum of GTIs [s]
			l1events	262478	Number of level 1 events

### 2.1.4 Events

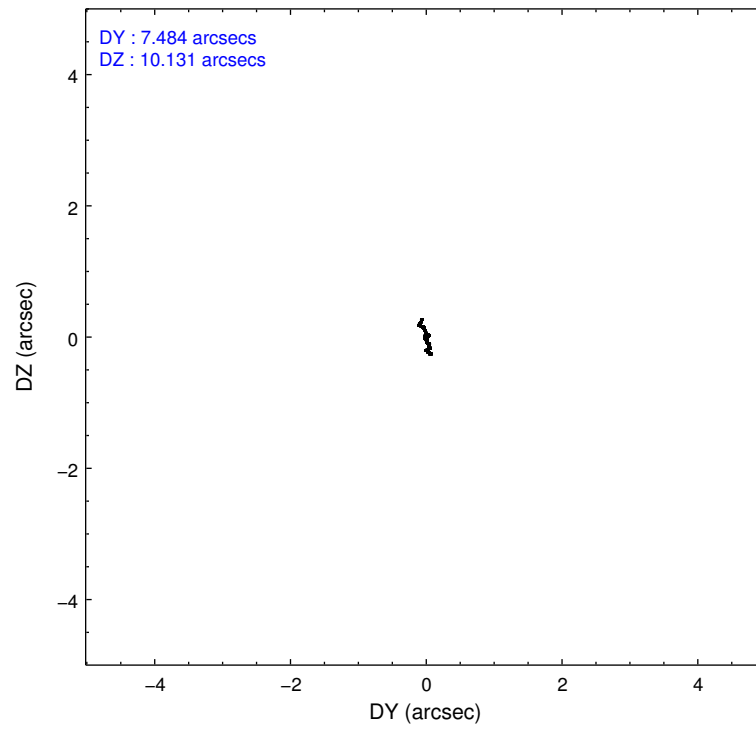
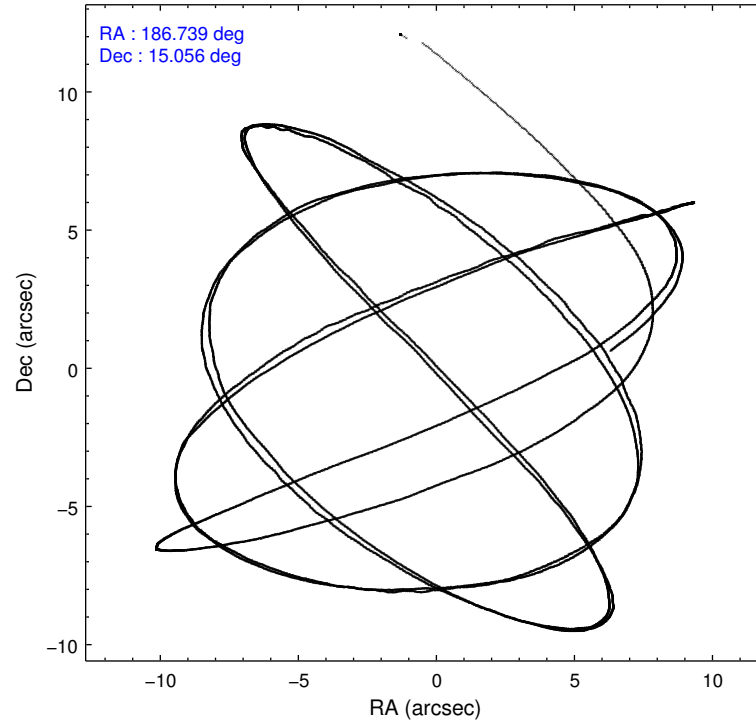
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	36557	35565	58192	36155	50113	45896	grade 0 events	2109	2039	4016	1931	2056	3203
rejected events	32690	31720	35367	32224	32519	37640		5%	5%	6%	5%	4%	6%
rejected %	89%	89%	60%	89%	64%	82%	grade 1 events	26	16	92	17	43	41
								0%	0%	0%	0%	0%	0%
							grade 2 events	916	796	8068	940	4174	2145
								2%	2%	13%	2%	8%	4%
							grade 3 events	447	462	999	429	1780	960
								1%	1%	1%	1%	3%	2%
							grade 4 events	413	415	975	442	1797	925
								1%	1%	1%	1%	3%	2%
							grade 5 events	1485	1585	4199	1648	4764	2222
								4%	4%	7%	4%	9%	4%
							grade 6 events	696	793	13190	913	11009	2707
								1%	2%	22%	2%	21%	5%
							grade 7 events	30465	29459	26653	29835	24490	33693
								83%	82%	45%	82%	48%	73%

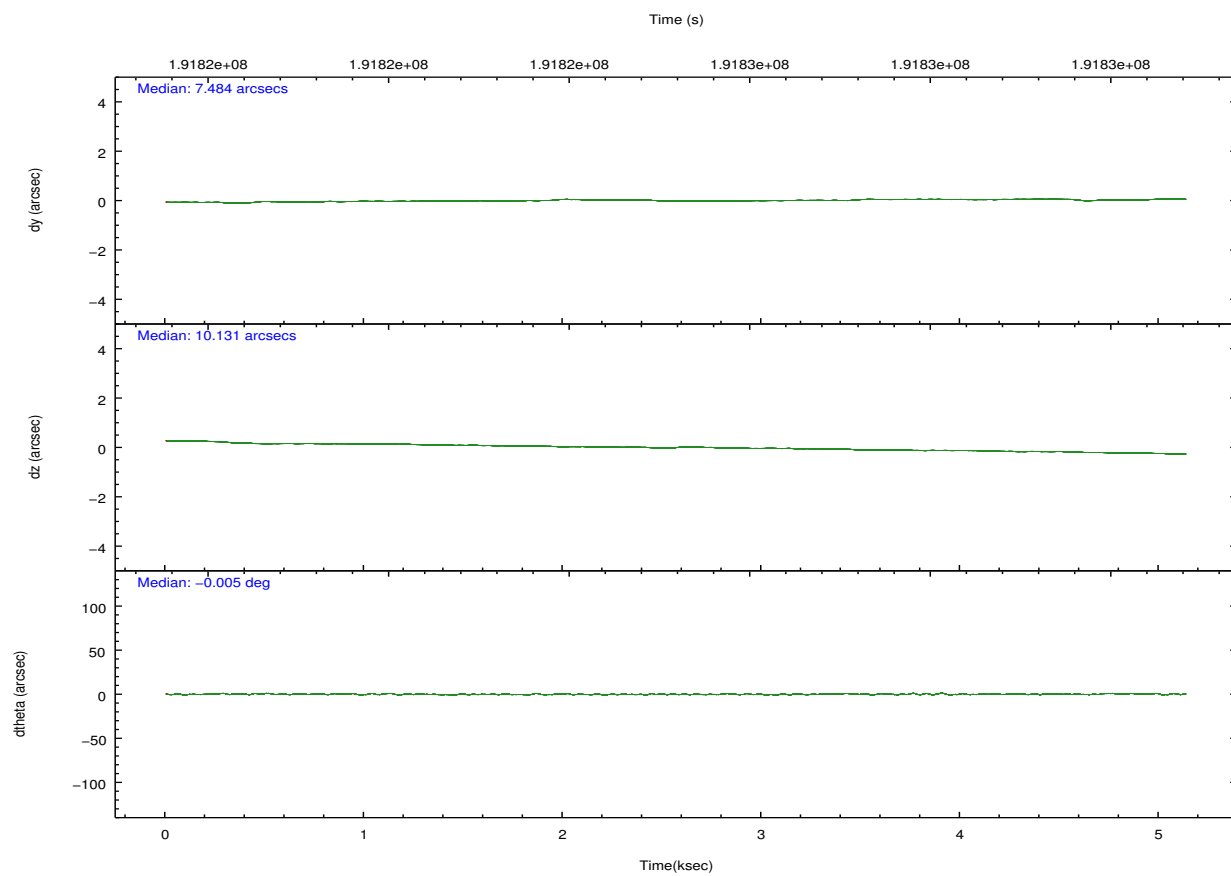
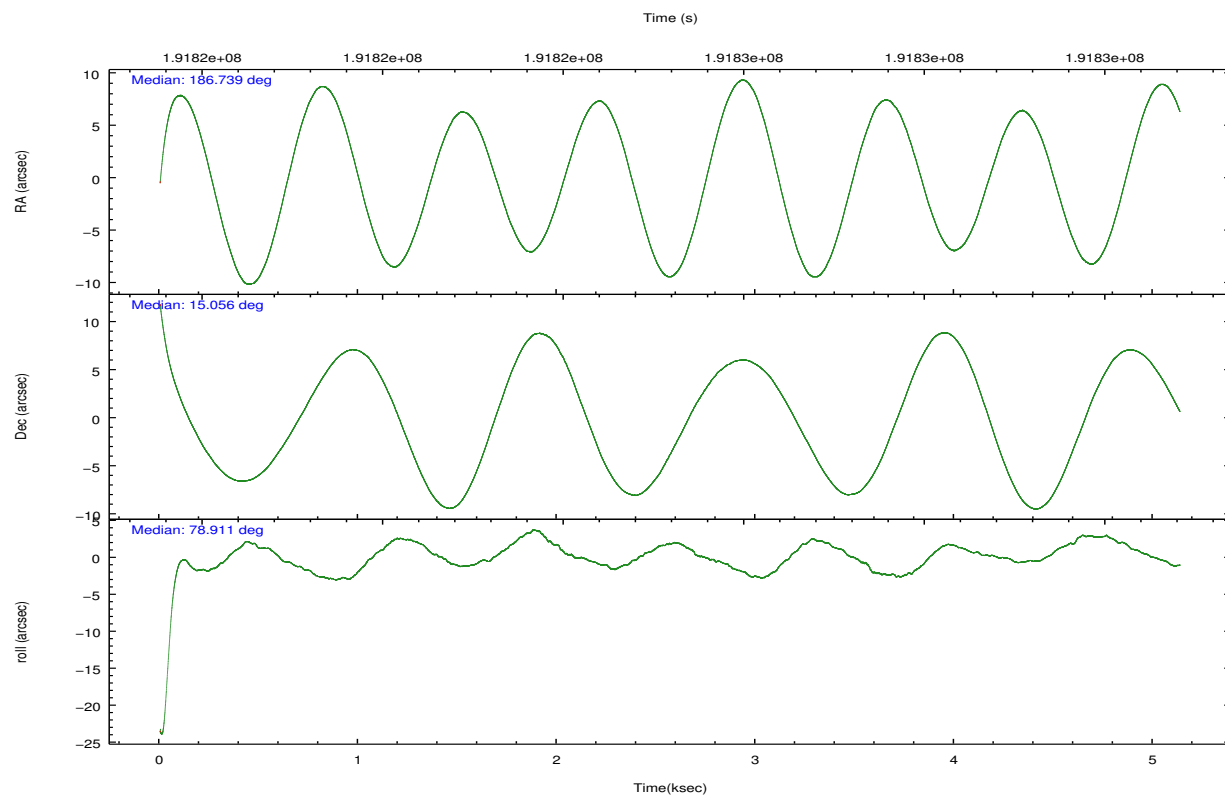


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	186.748121	186.7386528095877	Subarray requested	NONE	NONE
[deg] Pointing Dec	15.030596	15.05629196577151	Alternating exposures requested	N	N
[deg] Pointing Roll	78.753713	78.91273808559069	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	191823165.184000	191820396.3327			
Observation start date	2004-01-30T04:11:41	2004-01-30T03:26:36			
[s] Observation end time (MET)	191828165.184000	191829166.74558			
Observation end date	2004-01-30T05:35:01	2004-01-30T05:52:46			
Read mode	TIMED	TIMED			

## 2.3 Aspect



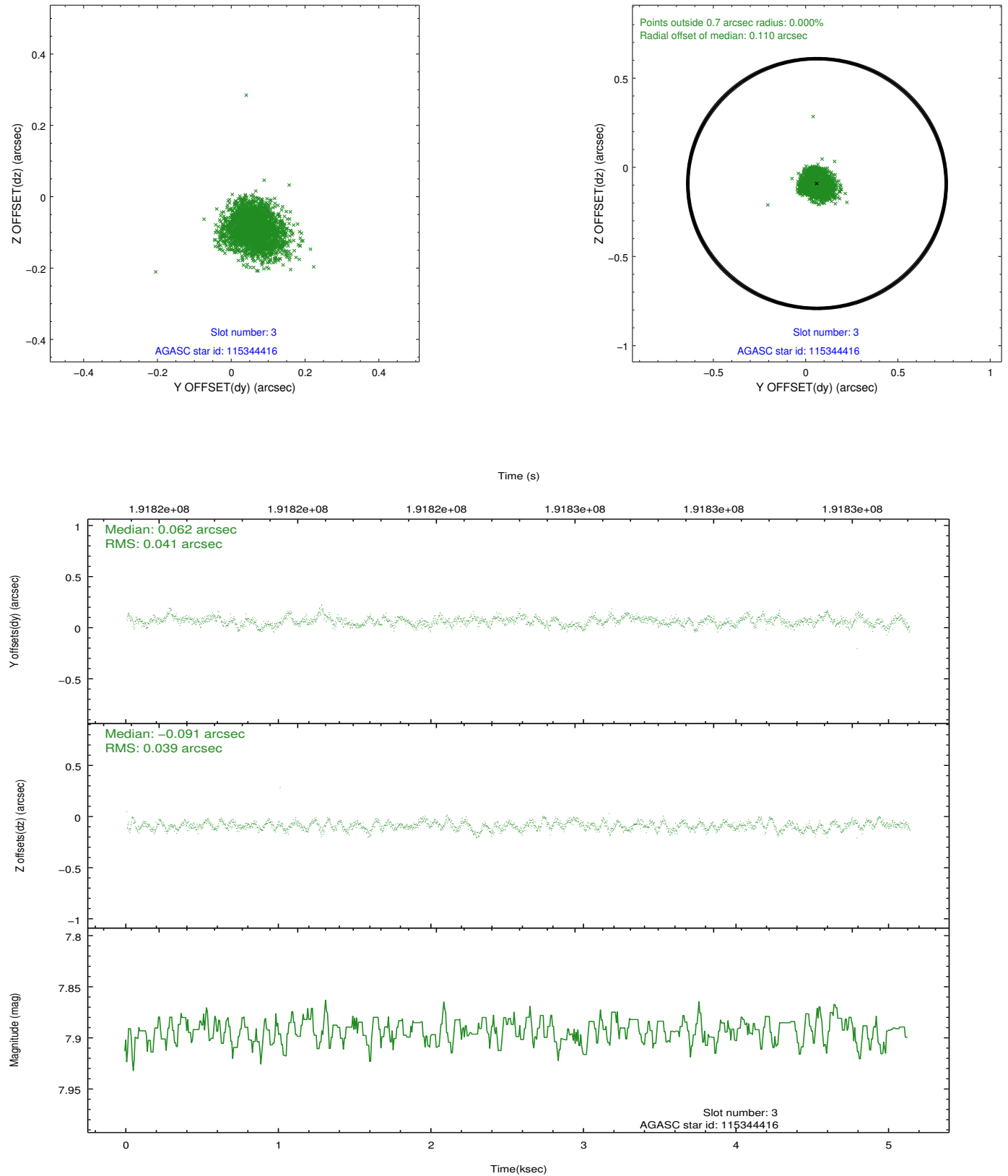


### Slot Statistics

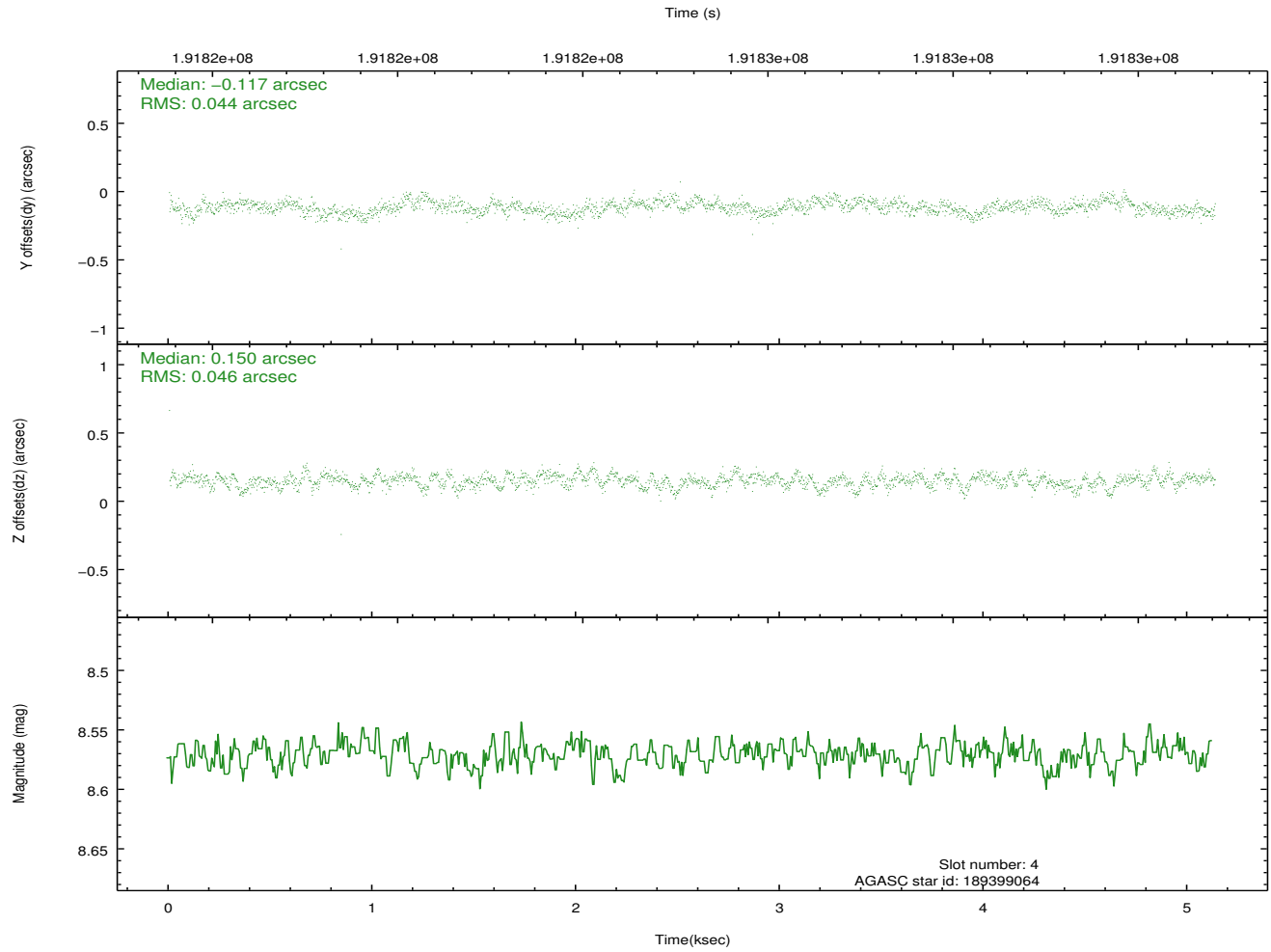
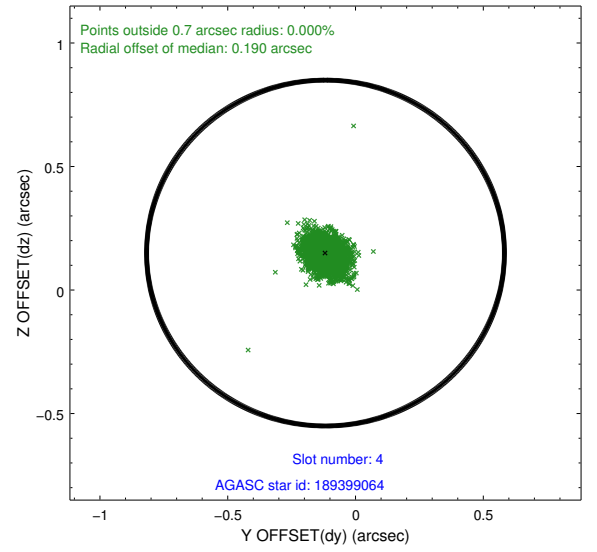
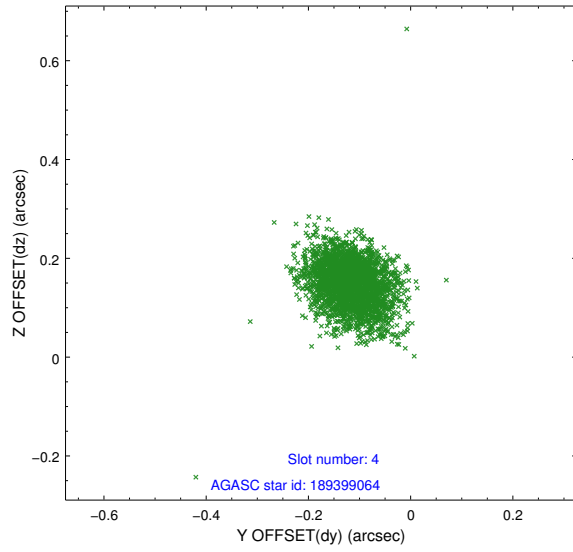
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1252	-0.040	-0.023	0.006	0.009	0.000000	0.000000	-760.25	-1731.41
1	FID	ACIS-S-4	7.20	1253	0.048	0.013	0.006	0.010	0.000000	0.000000	2152.54	175.94
2	FID	ACIS-S-6	7.34	1253	-0.036	0.017	0.007	0.012	0.000000	0.000000	403.20	814.65
3	GUIDE	115344416	7.89	2505	0.062	-0.091	0.060	0.095	186.624628	14.572004	-1702.97	100.31
4	GUIDE	189399064	8.57	2505	-0.117	0.150	0.066	0.108	187.048930	15.252486	987.21	-868.42
5	GUIDE	189402384	8.77	2504	-0.124	0.163	0.079	0.126	187.044872	15.618538	2277.70	-595.96
6	GUIDE	115212664	9.61	2503	0.243	-0.068	0.111	0.185	186.112214	14.500161	-2301.41	1802.05
7	GUIDE	189402160	9.61	2504	-0.060	-0.153	0.091	0.144	186.723517	15.477538	1560.43	398.47

## 2.4 Star Slots

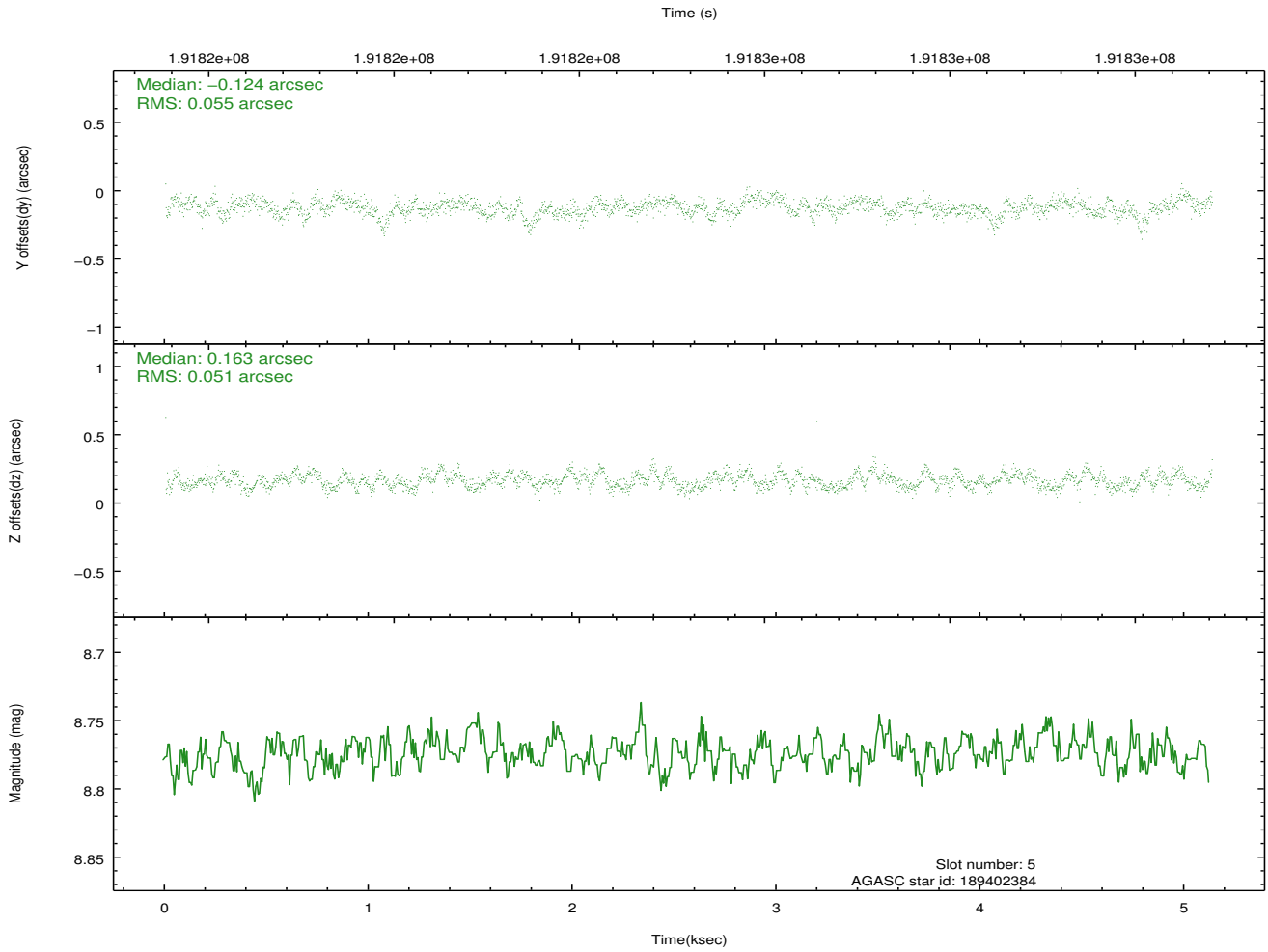
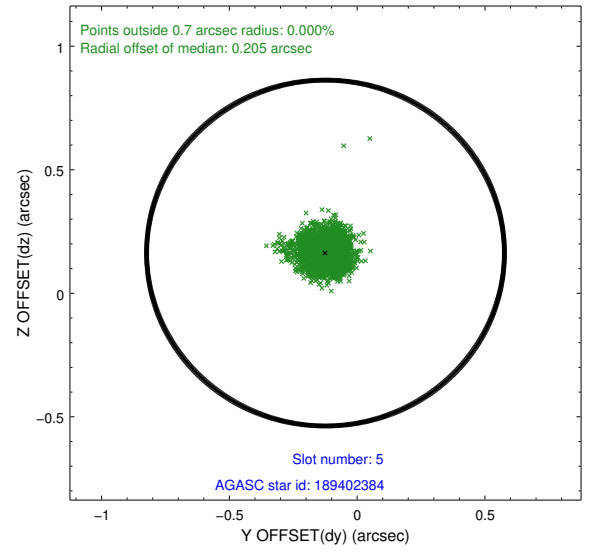
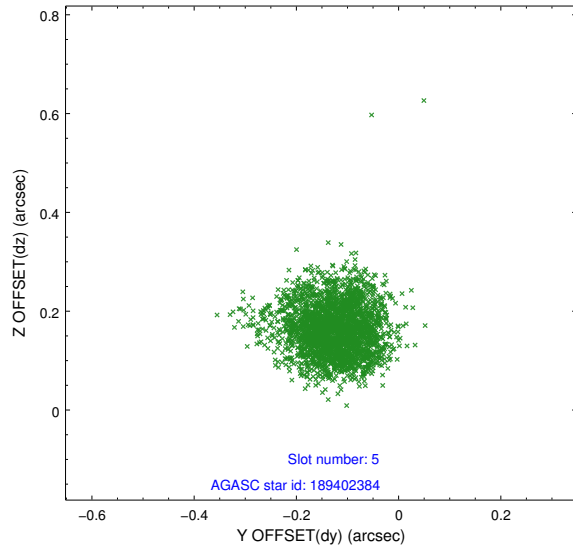
### 2.4.1 Slot 3



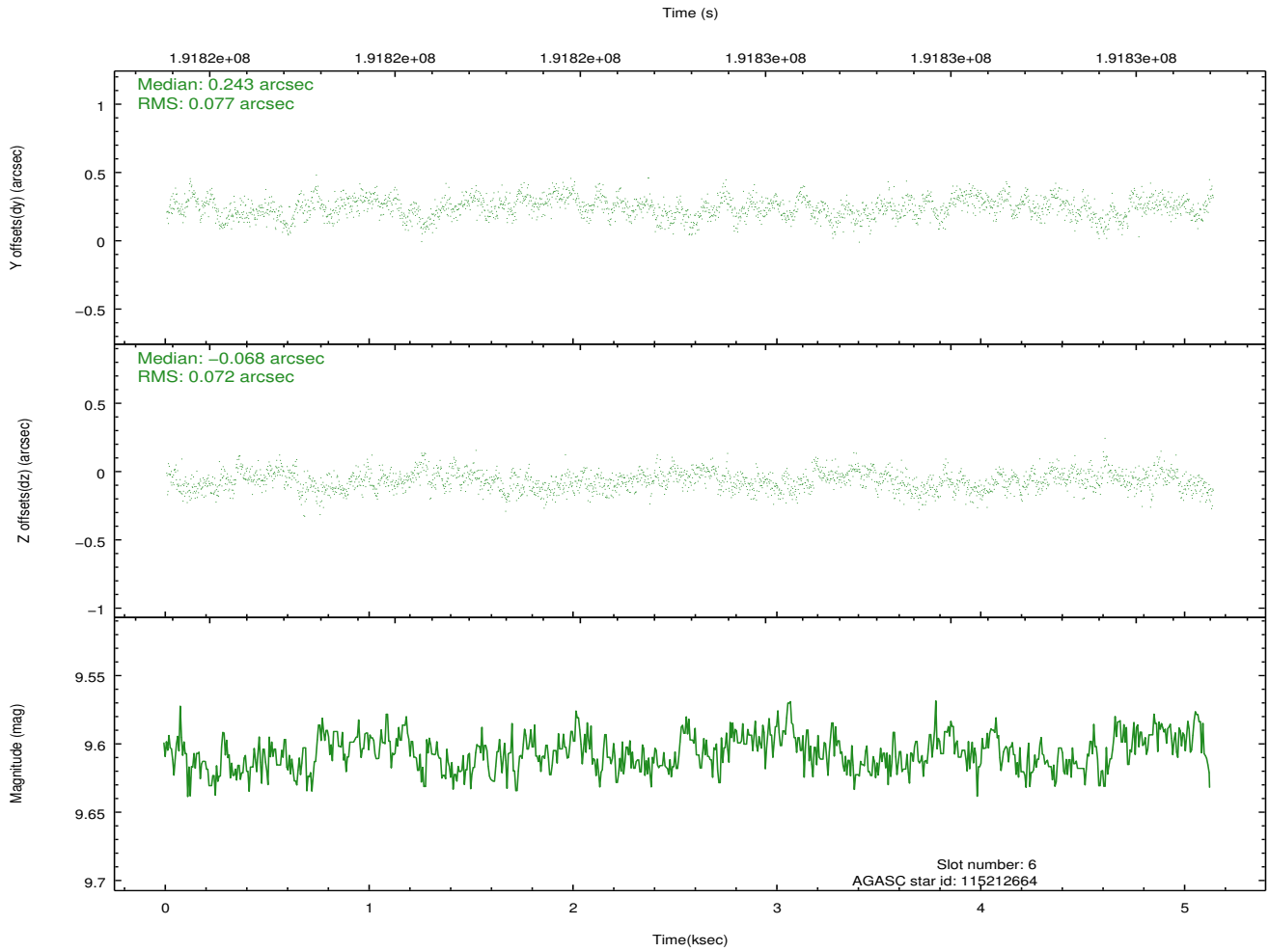
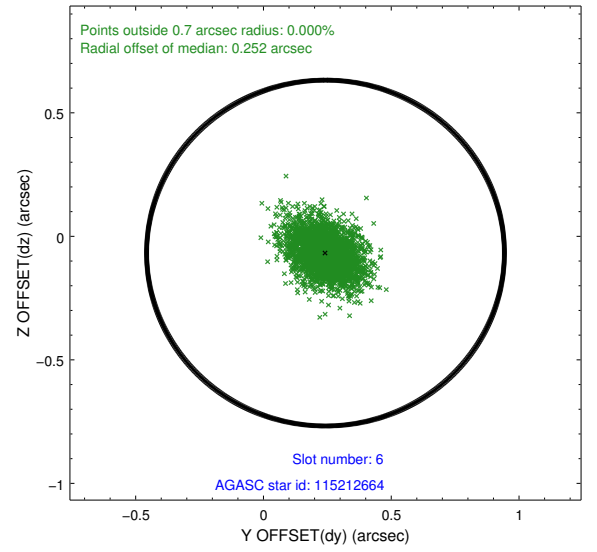
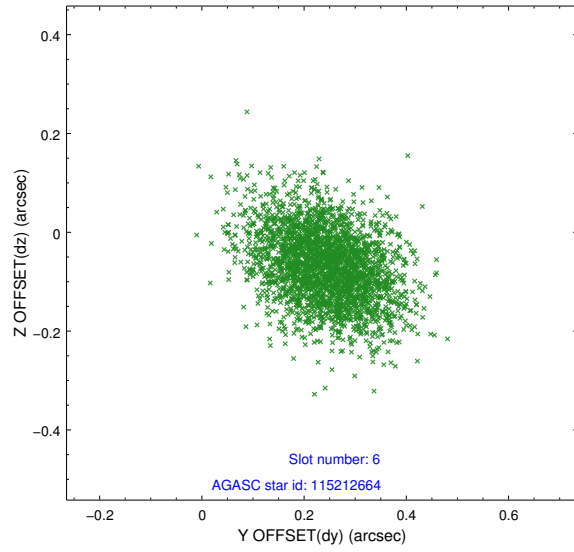
## 2.4.2 Slot 4



### 2.4.3 Slot 5

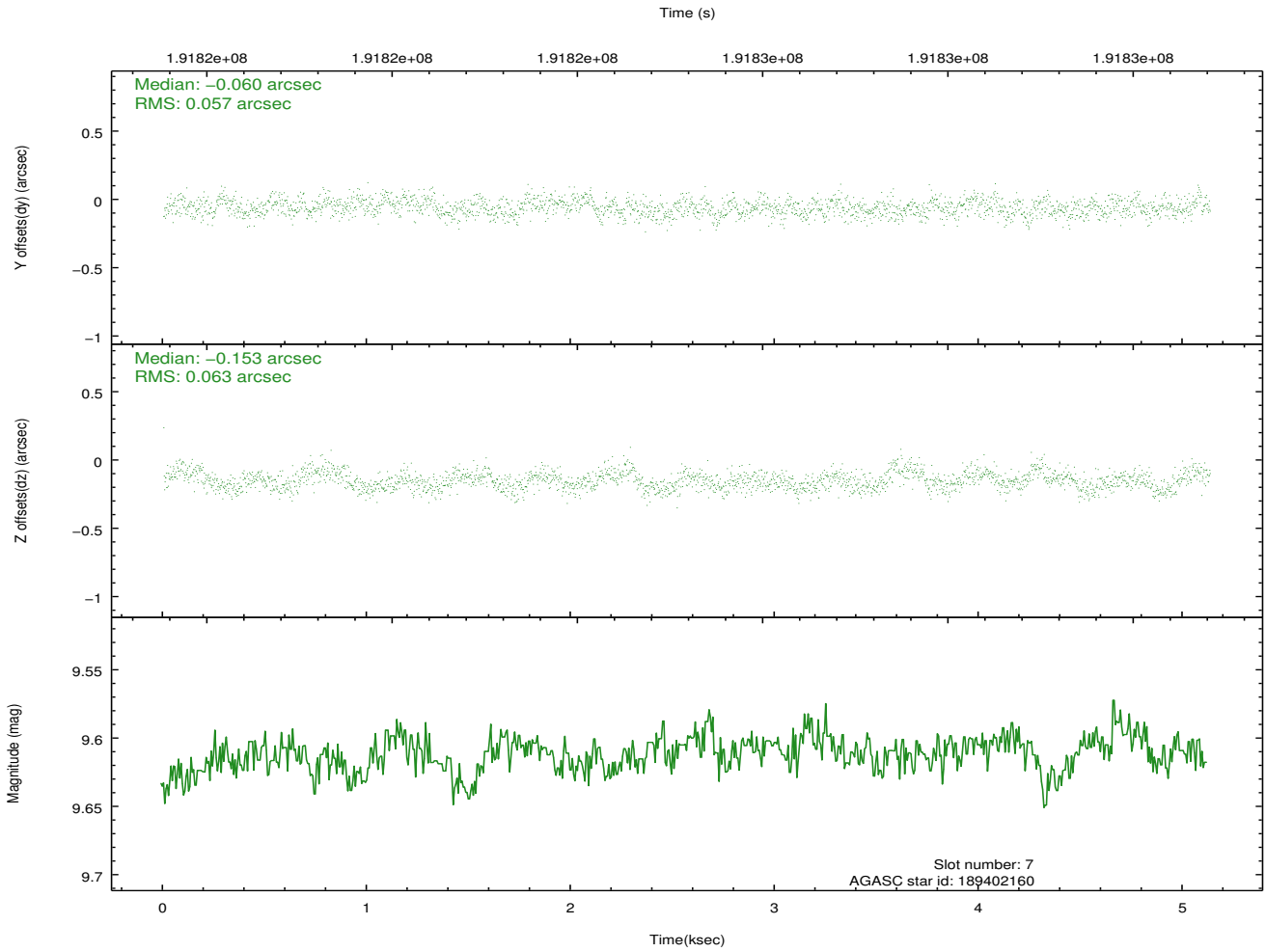
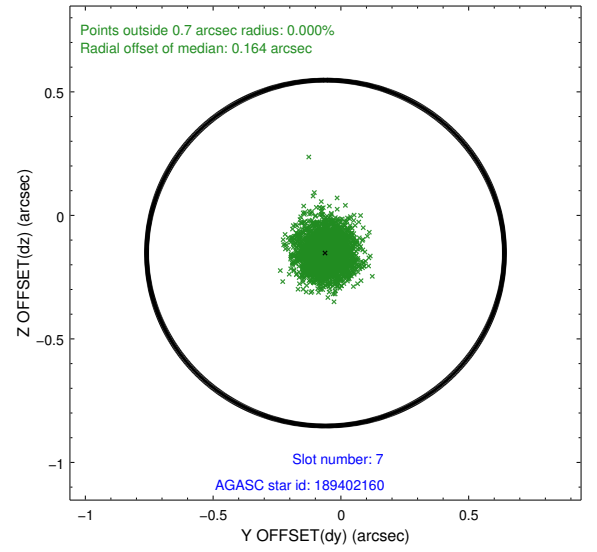
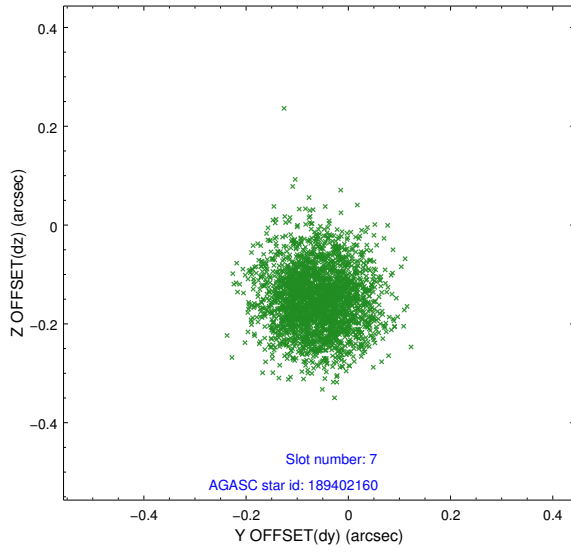


## 2.4.4 Slot 6



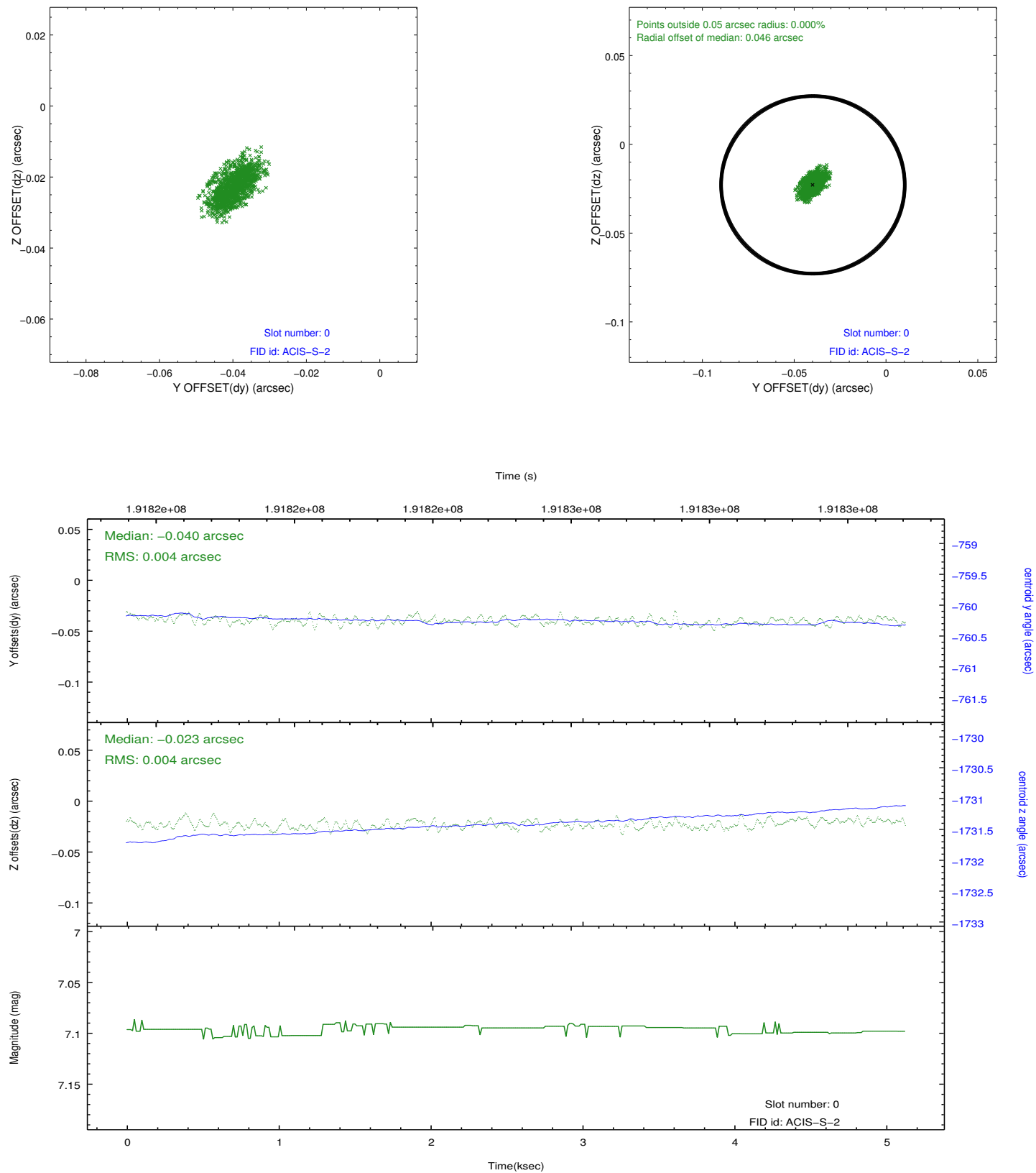


## 2.4.5 Slot 7

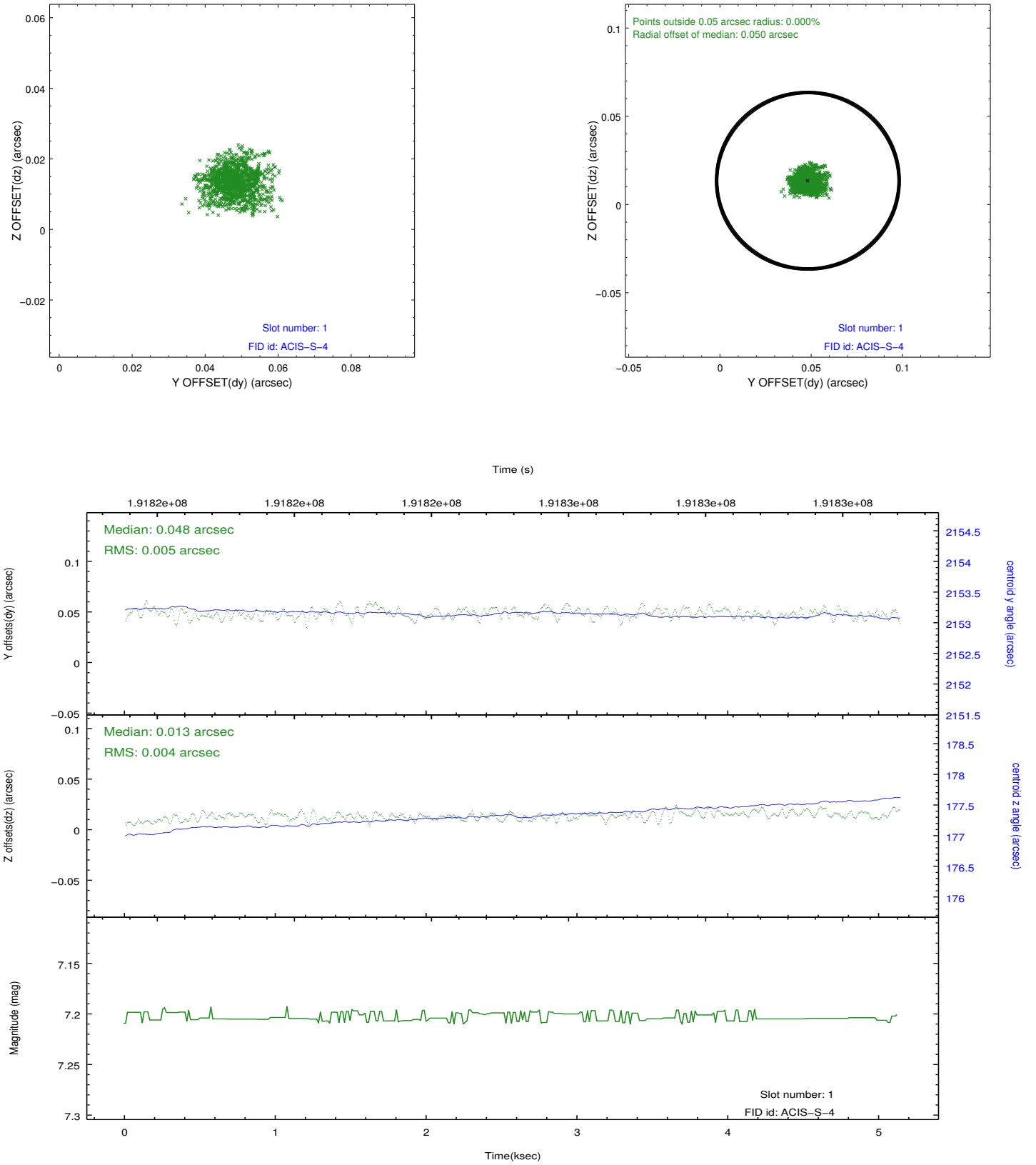


## 2.5 FID Slots

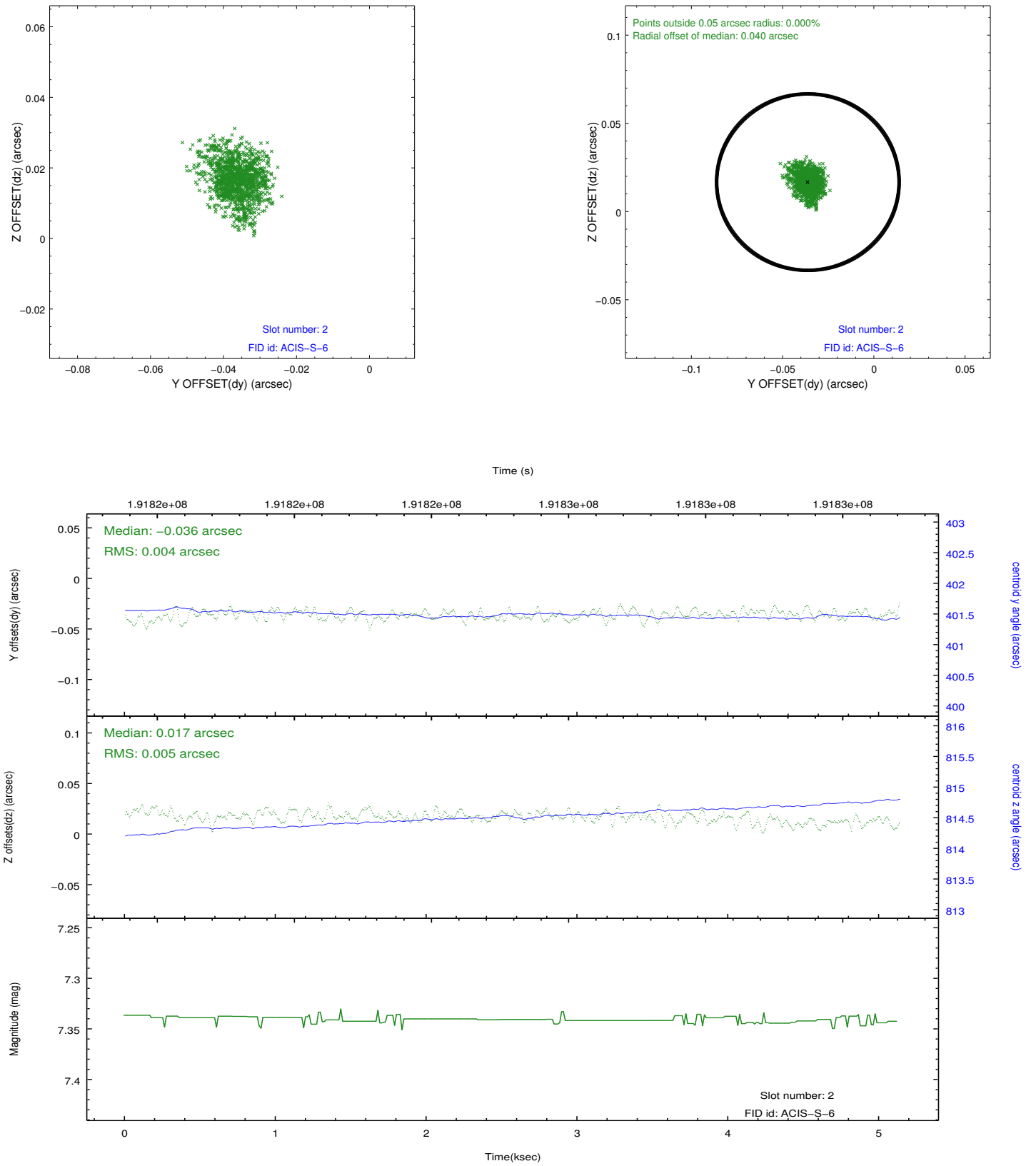
### 2.5.1 Slot 0



## 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)	2012.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.126

### A.2 Comments