

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 5867 - L2 Version 2  
Chandra X-Ray Center

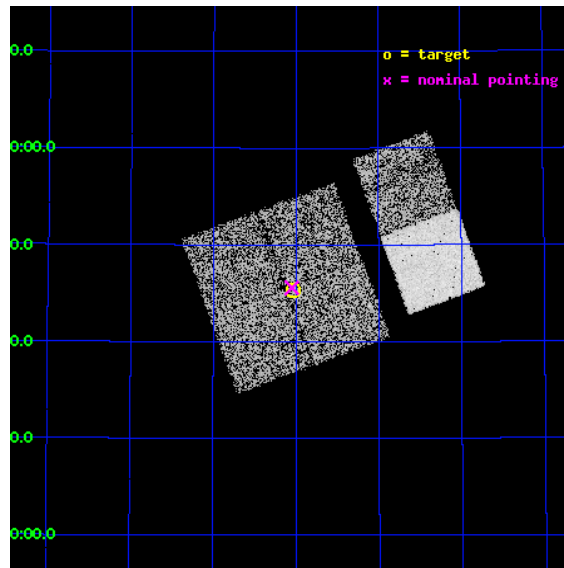
L2 Processing Date : Mar 24 2012

## 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

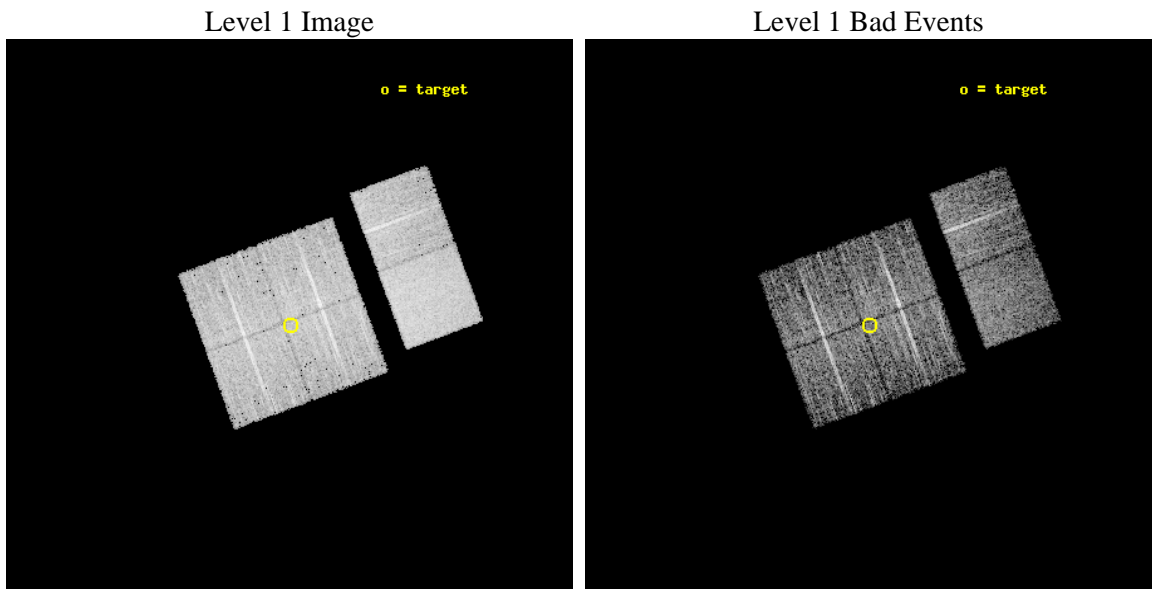
seq_num	900367	Sequence number
obs_id	5867	Observation id
title	The Spectral Energy Distributions of AGN: A Shallow Survey of the ELAIS-N1 Field	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	N1_13	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	242.257083	Observer's specified target RA [deg]
dec_targ	54.756194	Observer's specified target Dec [deg]
ra_nom	242.26250529974	Nominal RA [deg]
dec_nom	54.759661889736	Nominal Dec [deg]
roll_nom	69.760999304555	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4751.9999822974	Sum of GTIs [s]
livetime	4691.8272972107	Livetime [s]
ontime0	4751.9999822974	Sum of GTIs [s]
ontime1	4751.9999822974	Sum of GTIs [s]
ontime2	4751.9999822974	Sum of GTIs [s]
ontime3	4751.9999822974	Sum of GTIs [s]
ontime6	4751.9999822974	Sum of GTIs [s]
ontime7	4751.9999822974	Sum of GTIs [s]
l2events	42793	Number of level 2 events



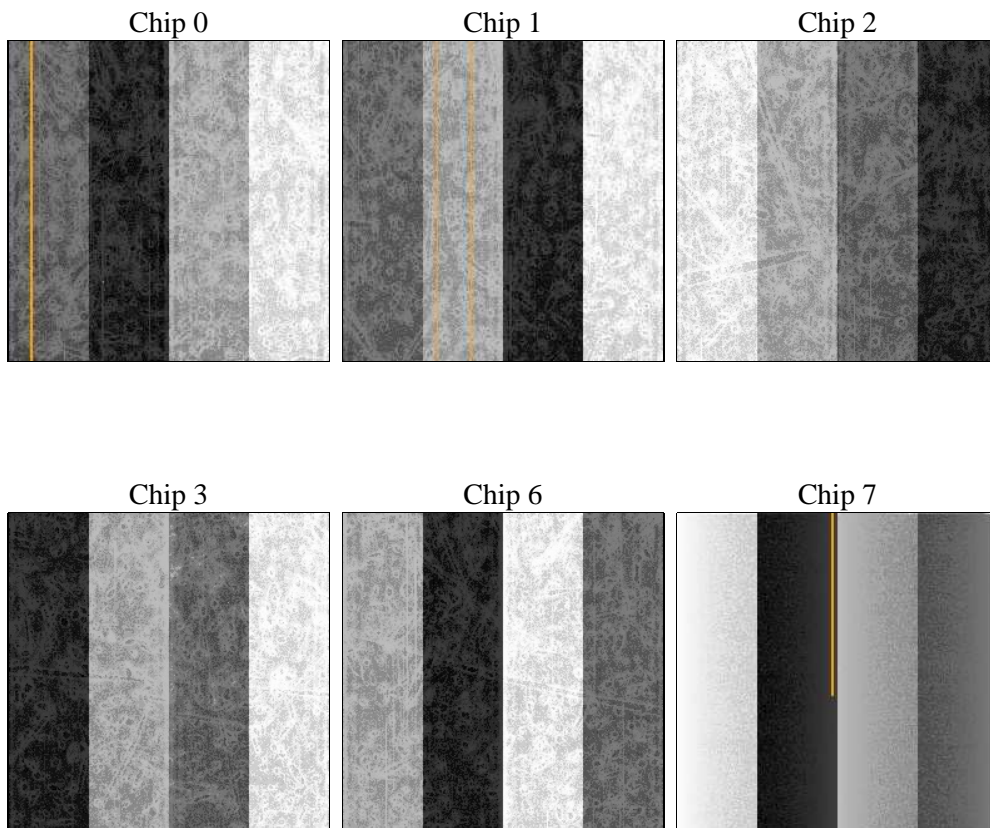
## 2 OBI

### 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	8.4.3	Processing system revision	ontime	4751.9999822974	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	4751.9999822974	Sum of GTIs [s]
date	2012-03-24T23:51:08	Date and time of file creation	ontime1	4751.9999822974	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4751.9999822974	Sum of GTIs [s]
			ontime3	4751.9999822974	Sum of GTIs [s]
			ontime6	4751.9999822974	Sum of GTIs [s]
			ontime7	4751.9999822974	Sum of GTIs [s]
			l1events	246306	Number of level 1 events

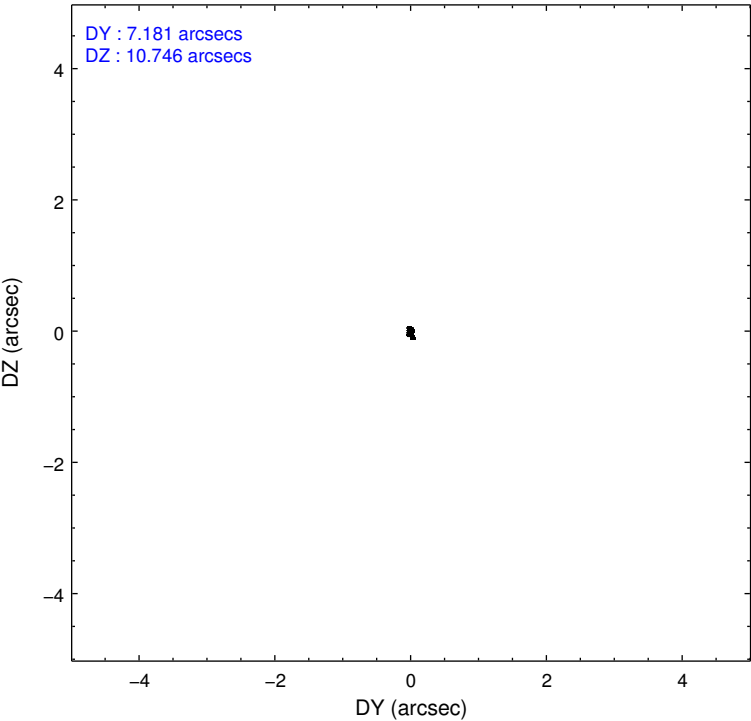
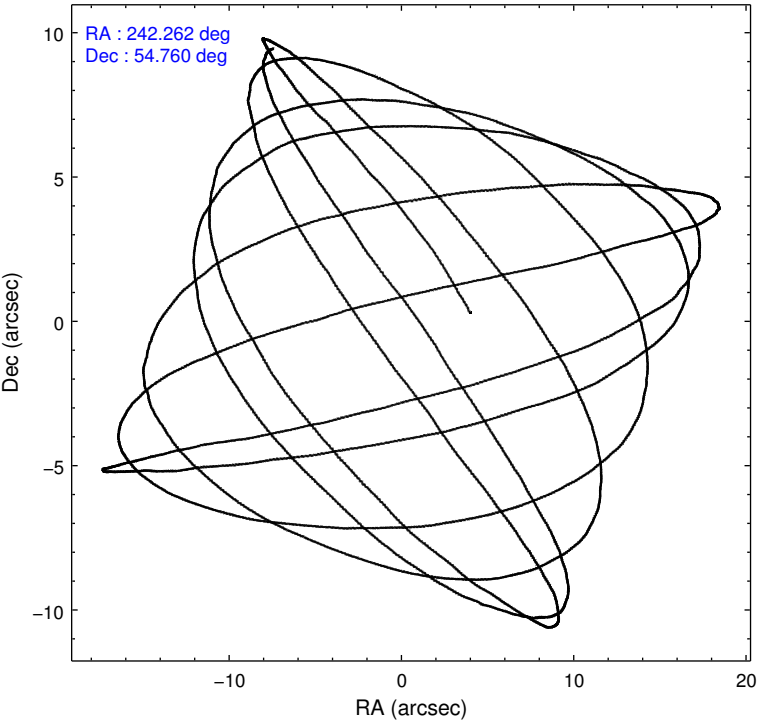
### 2.1.4 Events

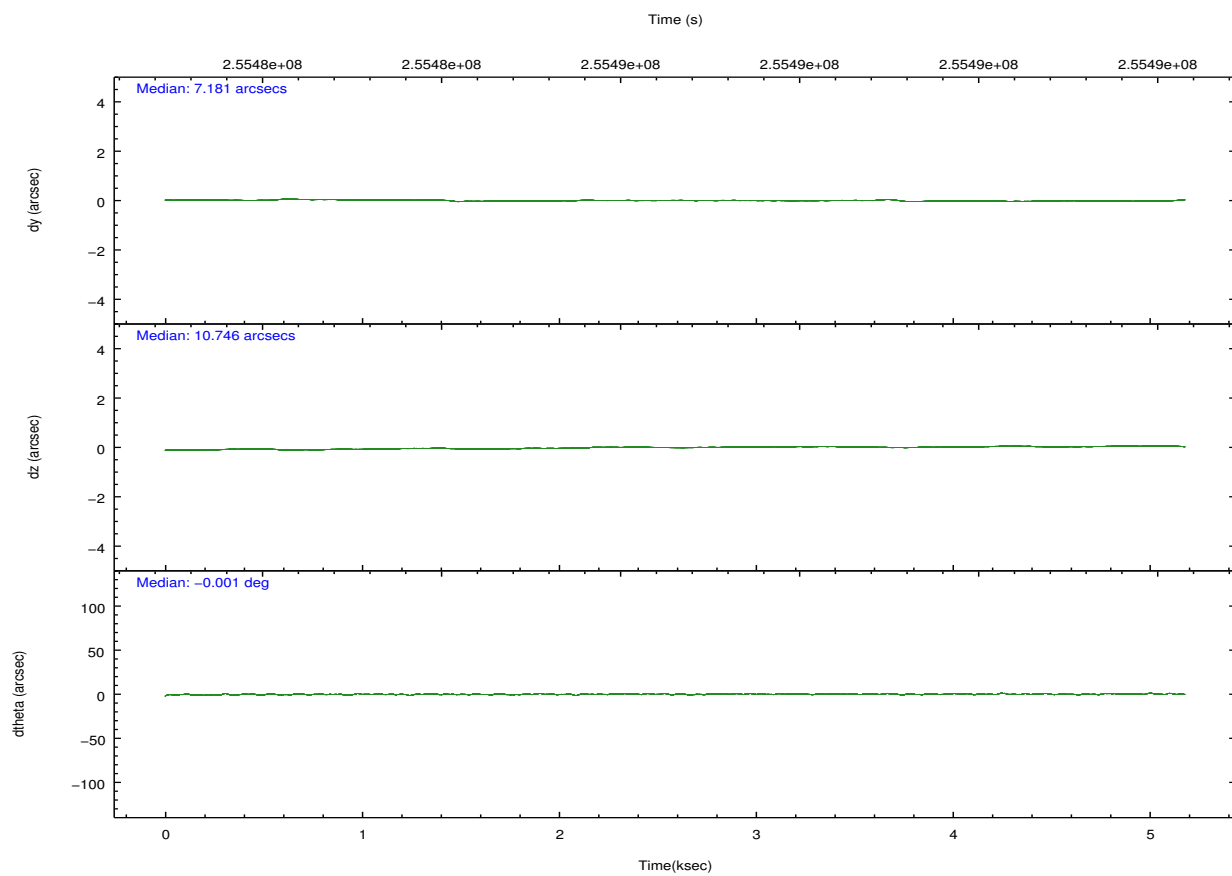
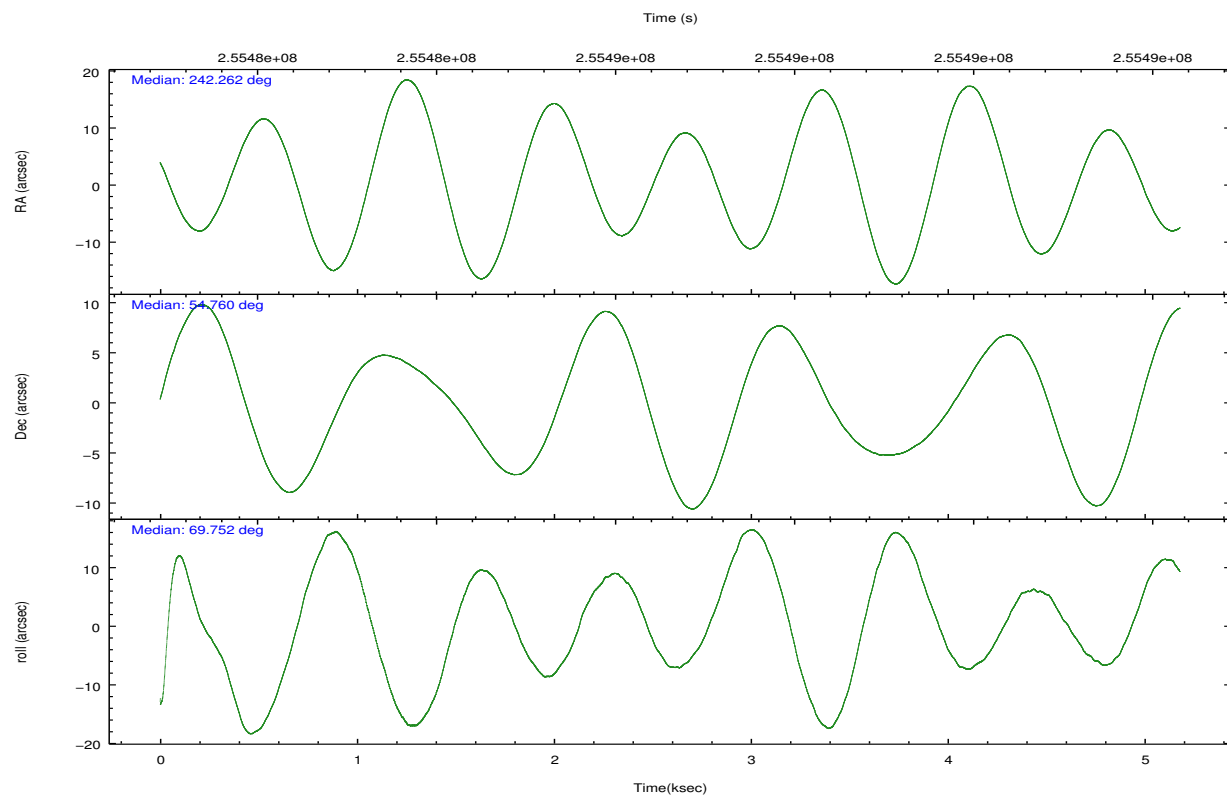
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	37686	36760	39788	37848	39289	54935	grade 0 events	1988	1981	2124	2020	1784	1966
rejected events	32929	31680	35091	33204	34580	32232		5%	5%	5%	5%	4%	3%
rejected %	87%	86%	88%	87%	88%	58%	grade 1 events	28	17	32	39	28	61
								0%	0%	0%	0%	0%	0%
							grade 2 events	1024	1174	910	905	1027	4603
								2%	3%	2%	2%	2%	8%
							grade 3 events	454	446	453	452	453	2014
								1%	1%	1%	1%	1%	3%
							grade 4 events	447	512	414	455	450	1979
								1%	1%	1%	1%	1%	3%
							grade 5 events	1579	1687	1554	1858	1879	5216
								4%	4%	3%	4%	4%	9%
							grade 6 events	852	975	800	814	1002	12177
								2%	2%	2%	2%	2%	22%
							grade 7 events	31314	29968	33501	31305	32666	26919
								83%	81%	84%	82%	83%	49%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	242.270808	242.2625052997447	Subarray requested	NONE	NONE
[deg] Pointing Dec	54.732601	54.75966188973589	Alternating exposures requested	N	N
[deg] Pointing Roll	69.545535	69.76099930455513	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	255483889.184000	255483513.08107			
Observation start date	2006-02-04T23:43:44	2006-02-04T23:38:33			
[s] Observation end time (MET)	255488889.184000	255489022.96883			
Observation end date	2006-02-05T01:07:04	2006-02-05T01:10:22			
Read mode	TIMED	TIMED			

2.3 Aspect



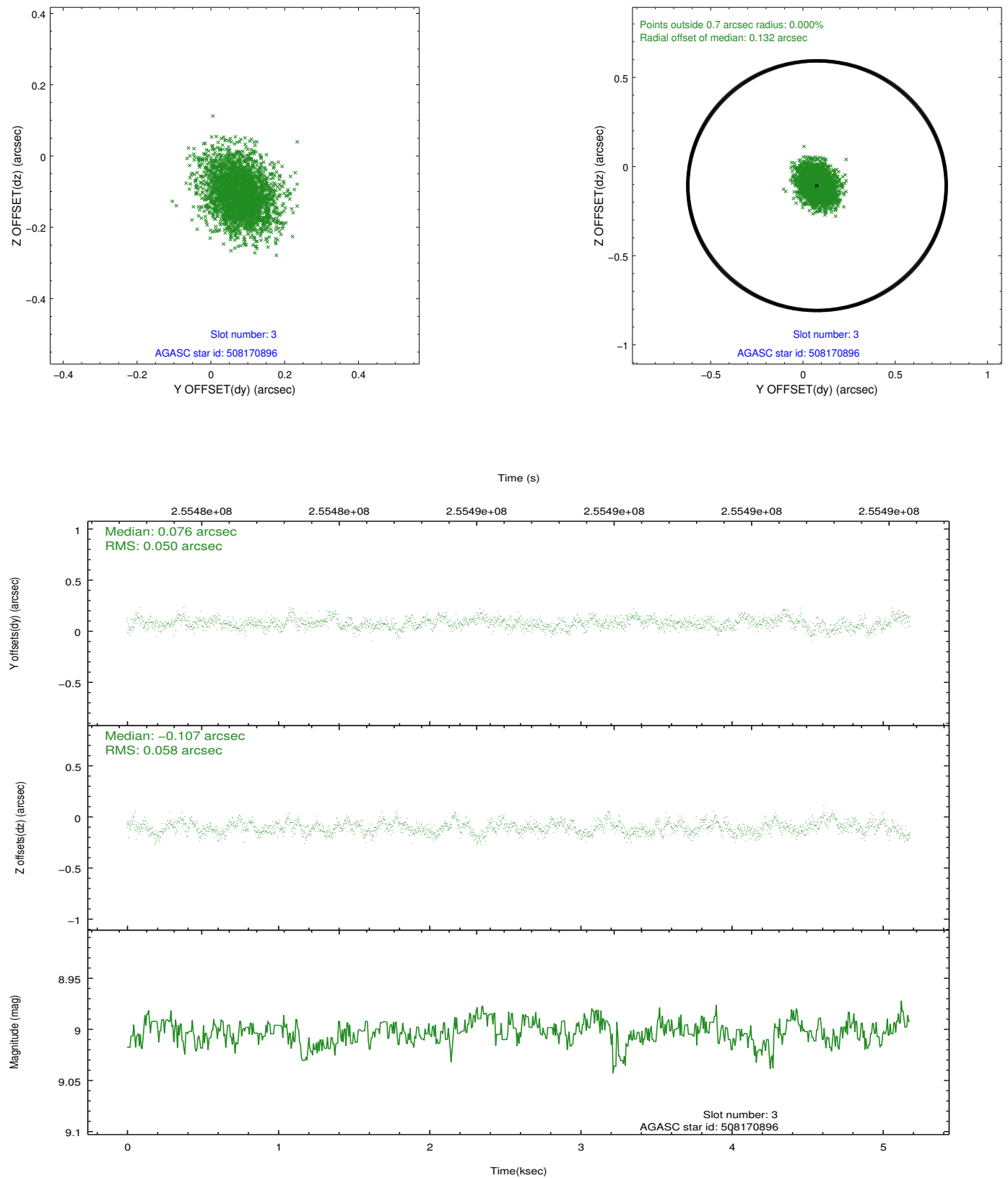


### Slot Statistics

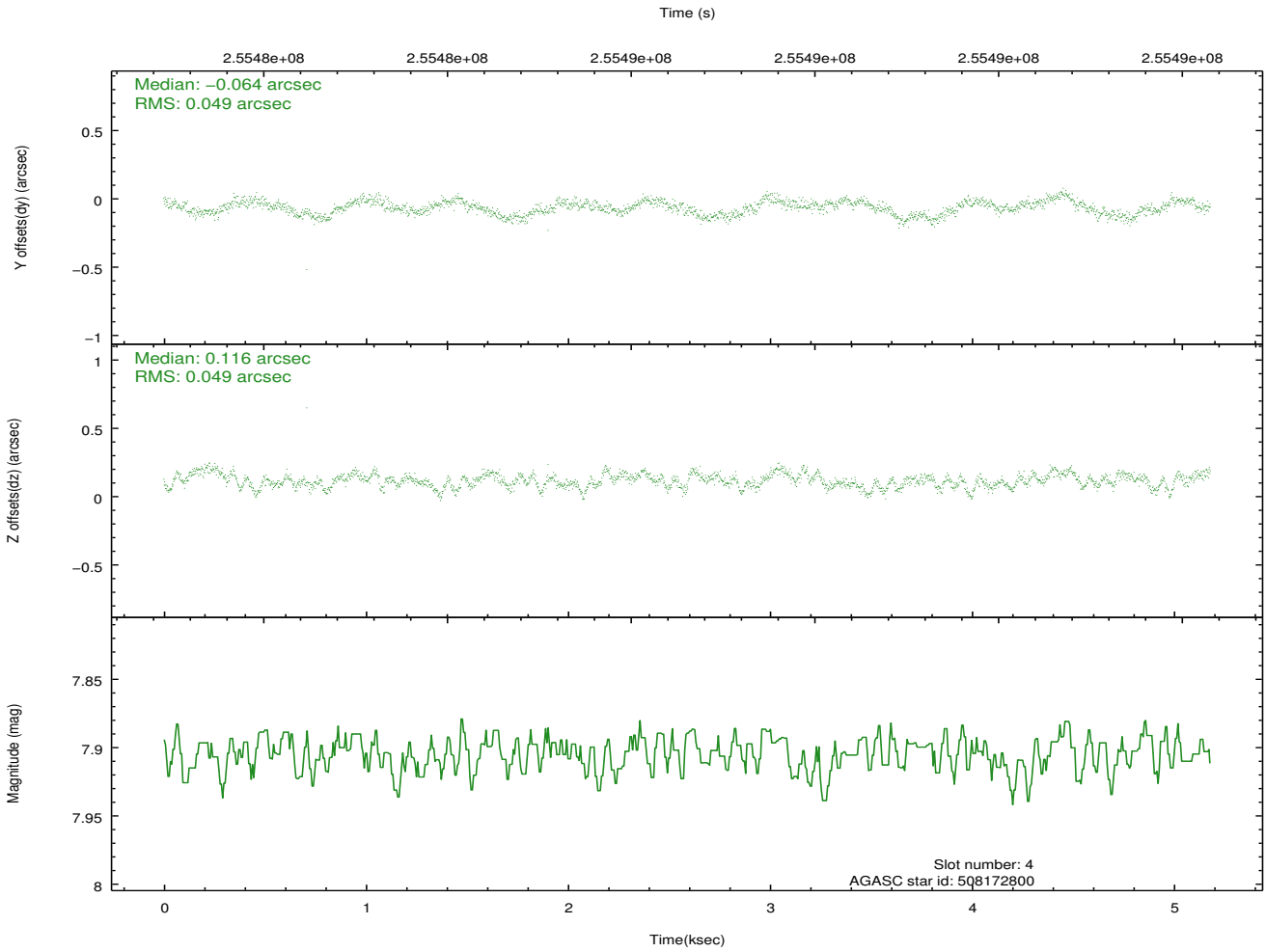
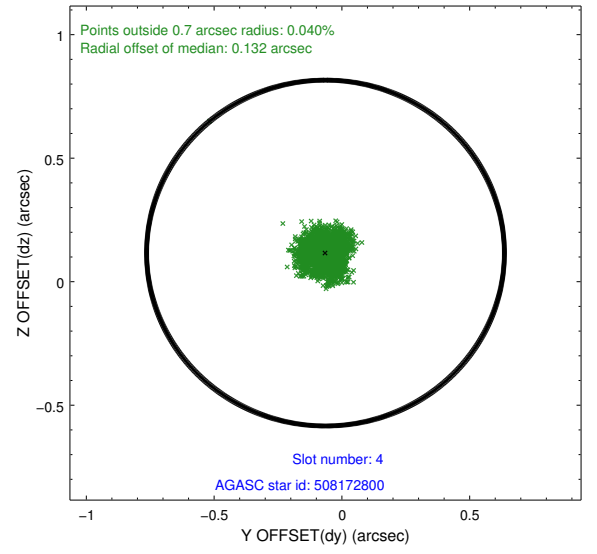
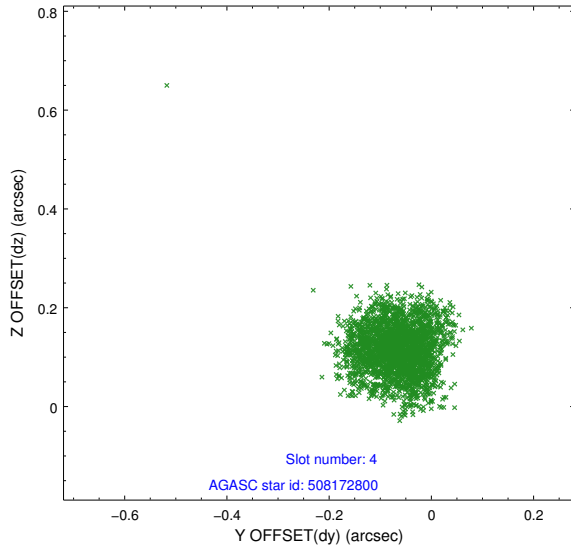
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1264	0.033	-0.024	0.006	0.011	0.000000	0.000000	932.52	-834.26
1	FID	ACIS-I-5	7.23	1264	-0.170	0.045	0.006	0.011	0.000000	0.000000	-1815.12	1062.76
2	FID	ACIS-I-6	7.26	1264	0.046	0.049	0.007	0.010	0.000000	0.000000	396.84	1708.56
3	GUIDE	508170896	9.00	2526	0.076	-0.107	0.081	0.134	242.052968	54.527984	-848.50	168.89
4	GUIDE	508172800	7.90	2528	-0.064	0.116	0.074	0.114	242.573753	54.657892	-30.55	-684.52
5	GUIDE	508173376	8.33	2527	0.107	-0.090	0.078	0.121	241.134254	54.422412	-1860.53	1846.21
6	GUIDE	508573872	8.69	2528	-0.031	-0.043	0.074	0.120	241.738816	55.437101	1999.47	1906.81
7	GUIDE	508166208	9.78	2525	-0.079	0.124	0.183	0.286	243.617118	54.978511	1827.52	-2286.36

## 2.4 Star Slots

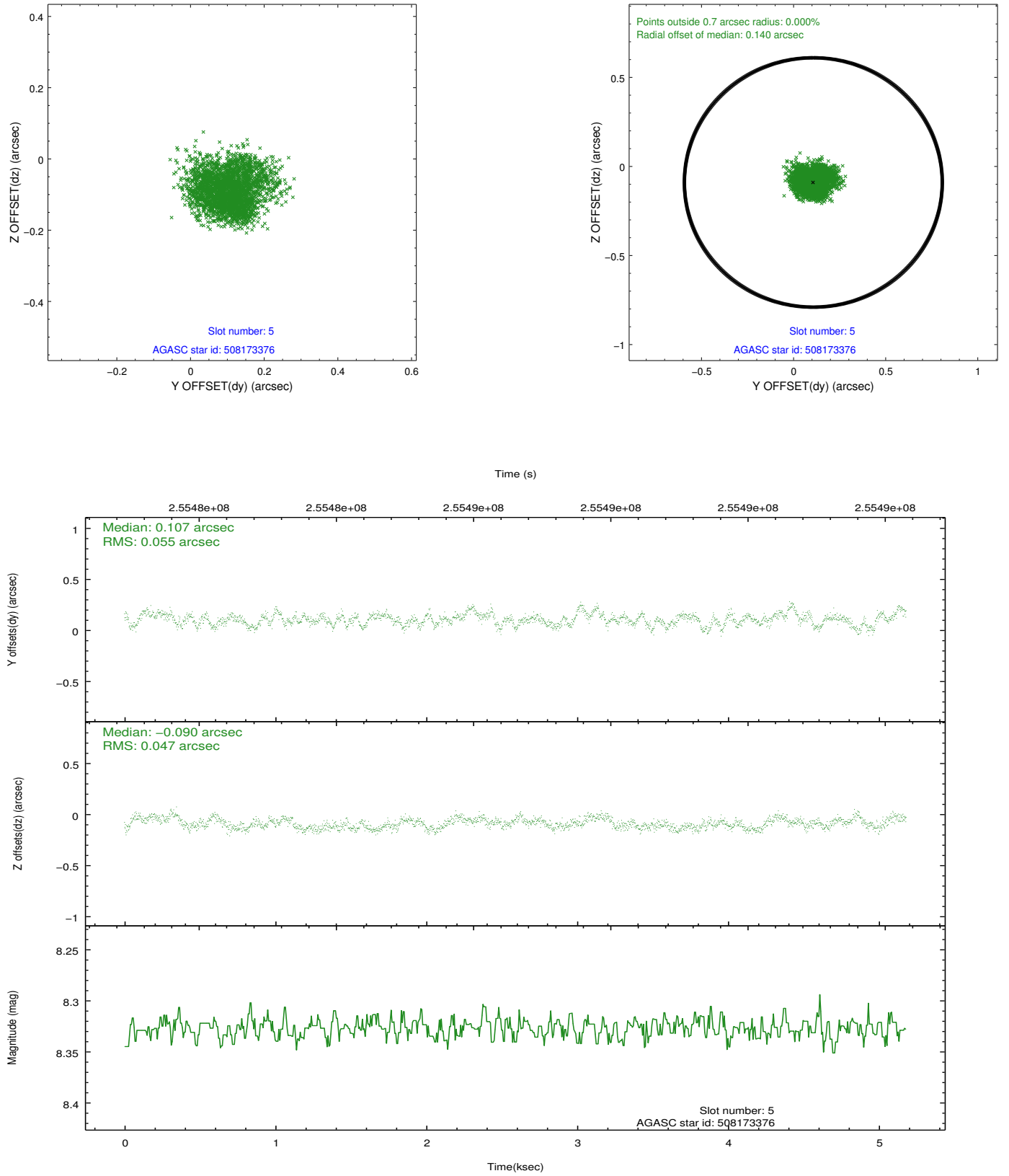
### 2.4.1 Slot 3



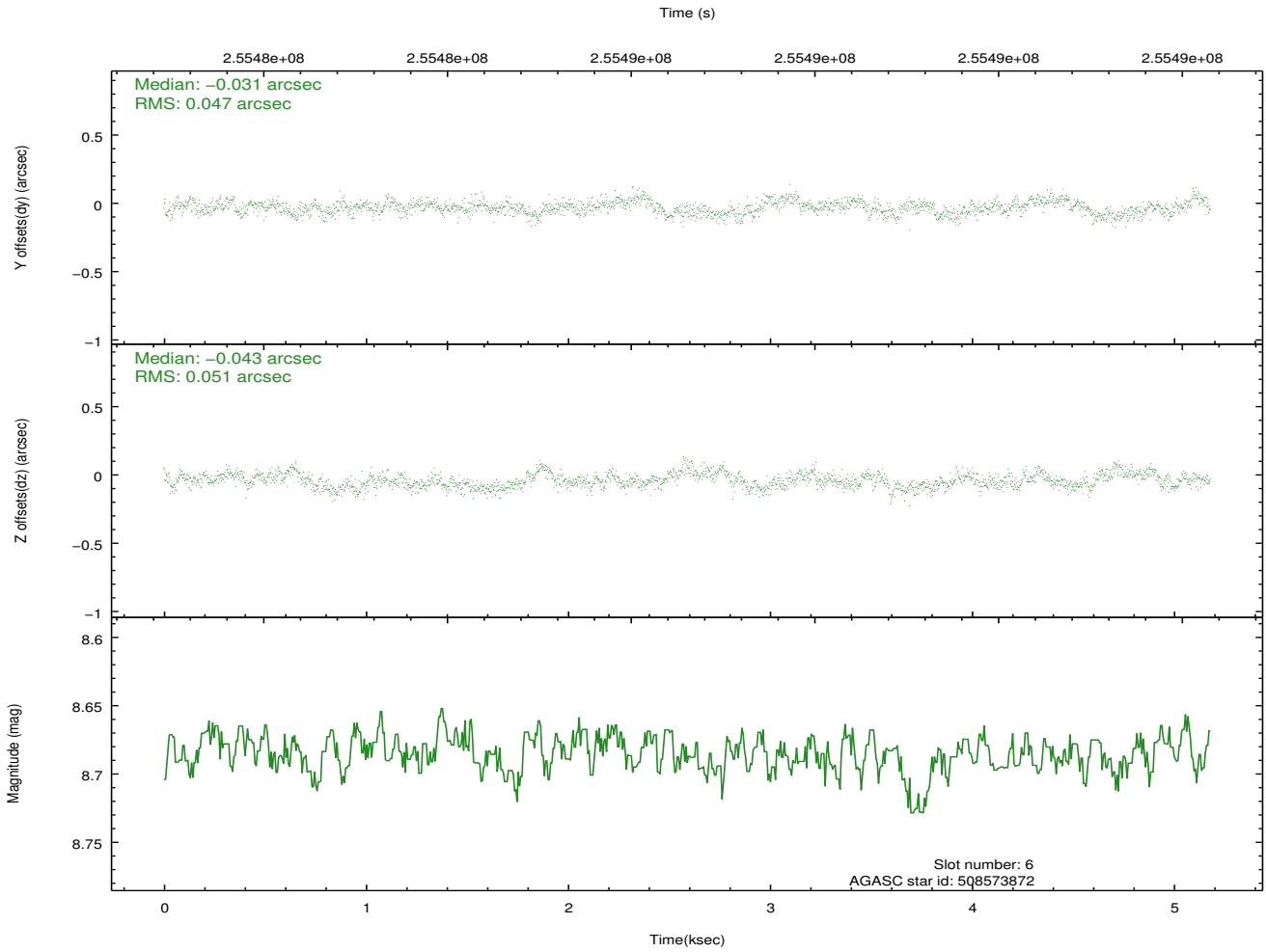
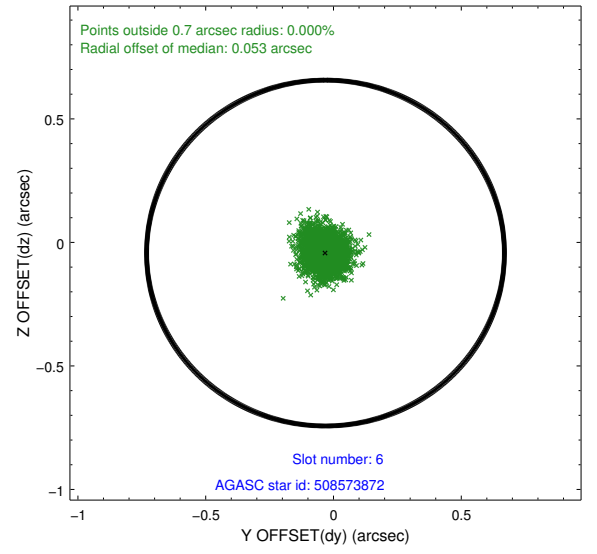
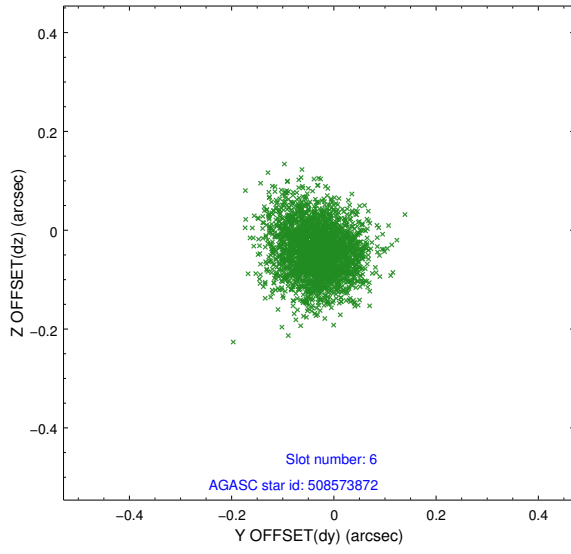
## 2.4.2 Slot 4



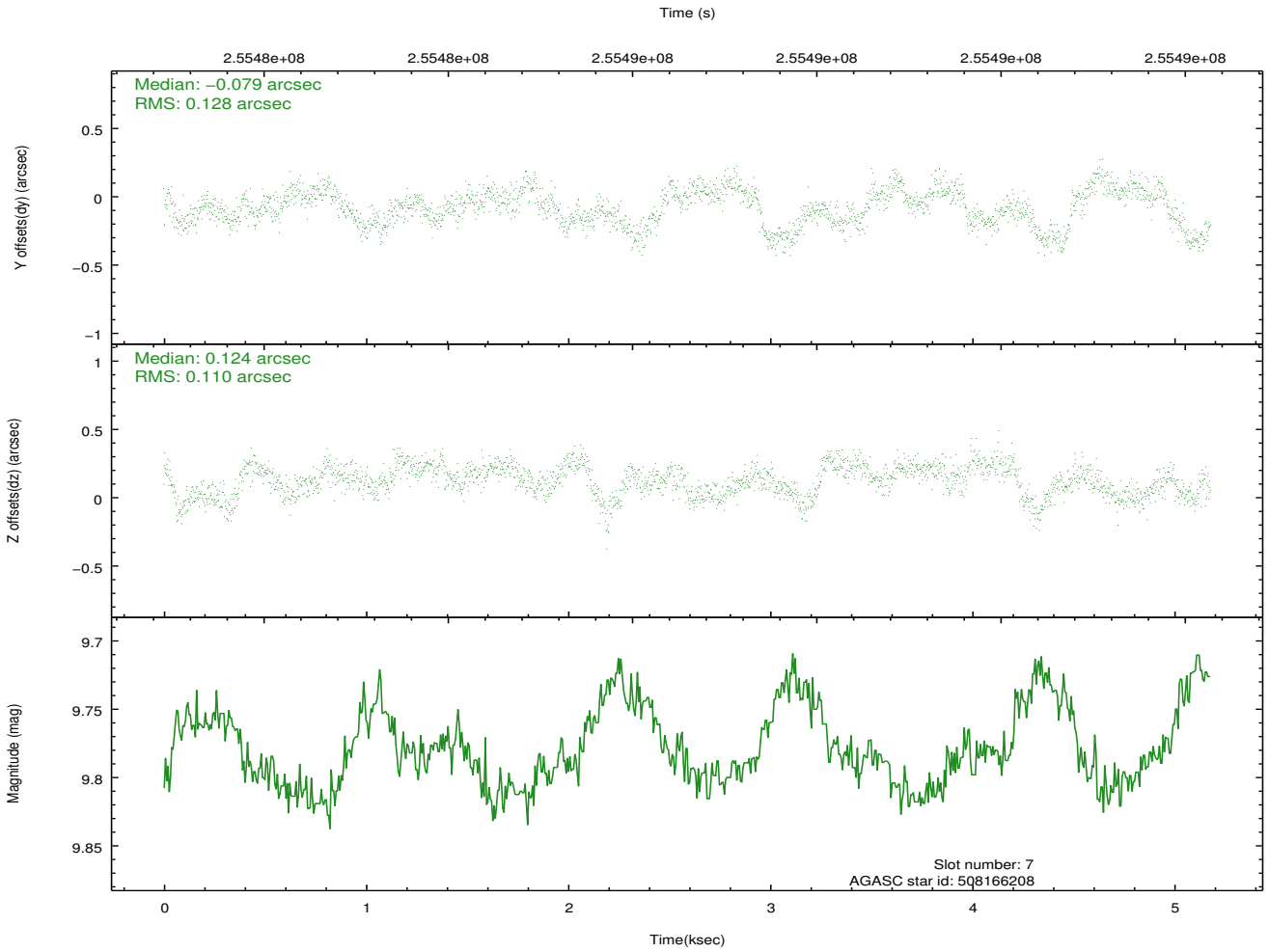
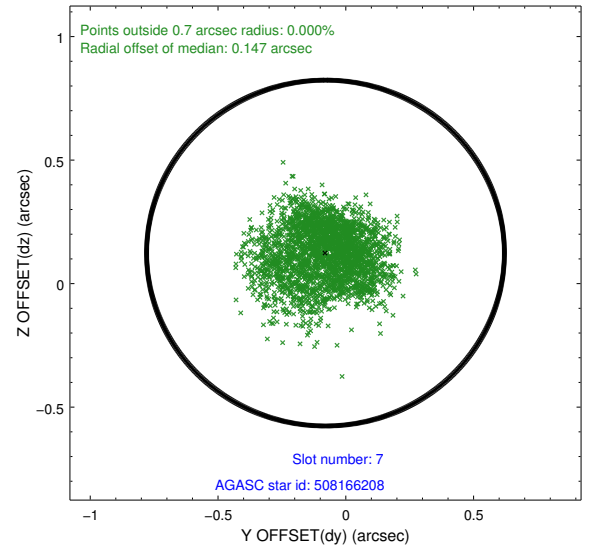
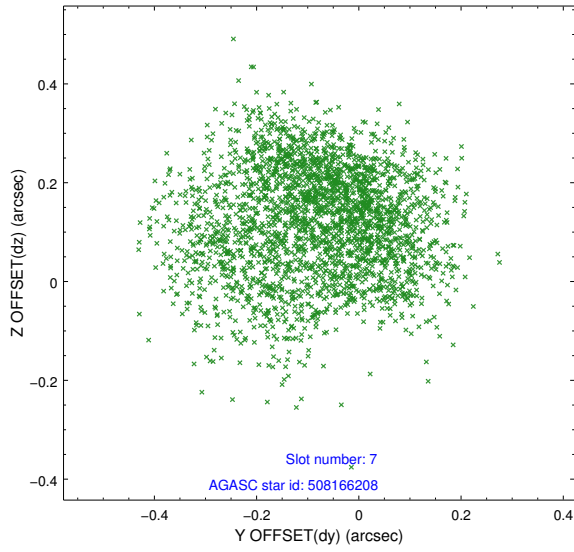
### 2.4.3 Slot 5



## 2.4.4 Slot 6

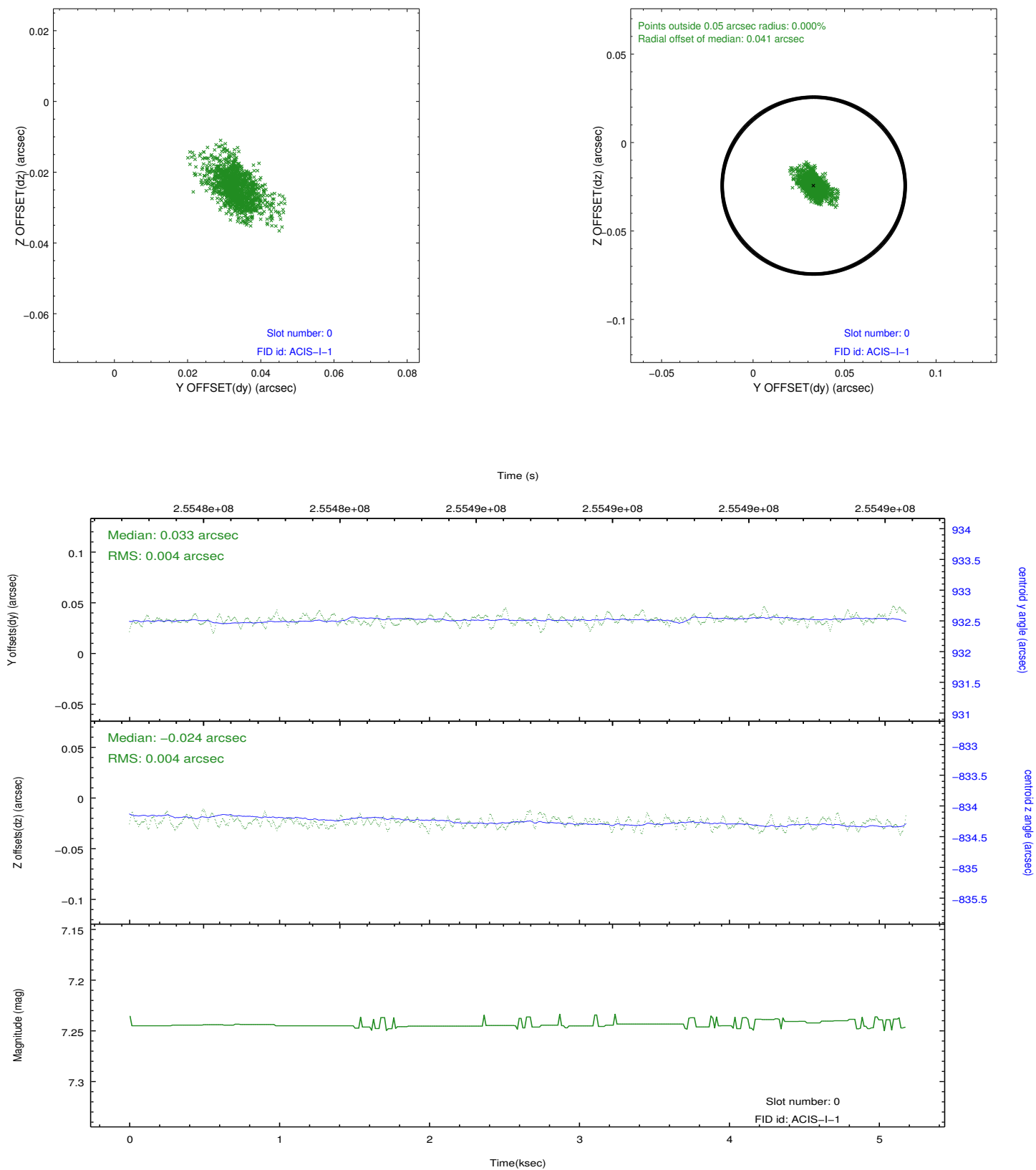


## 2.4.5 Slot 7

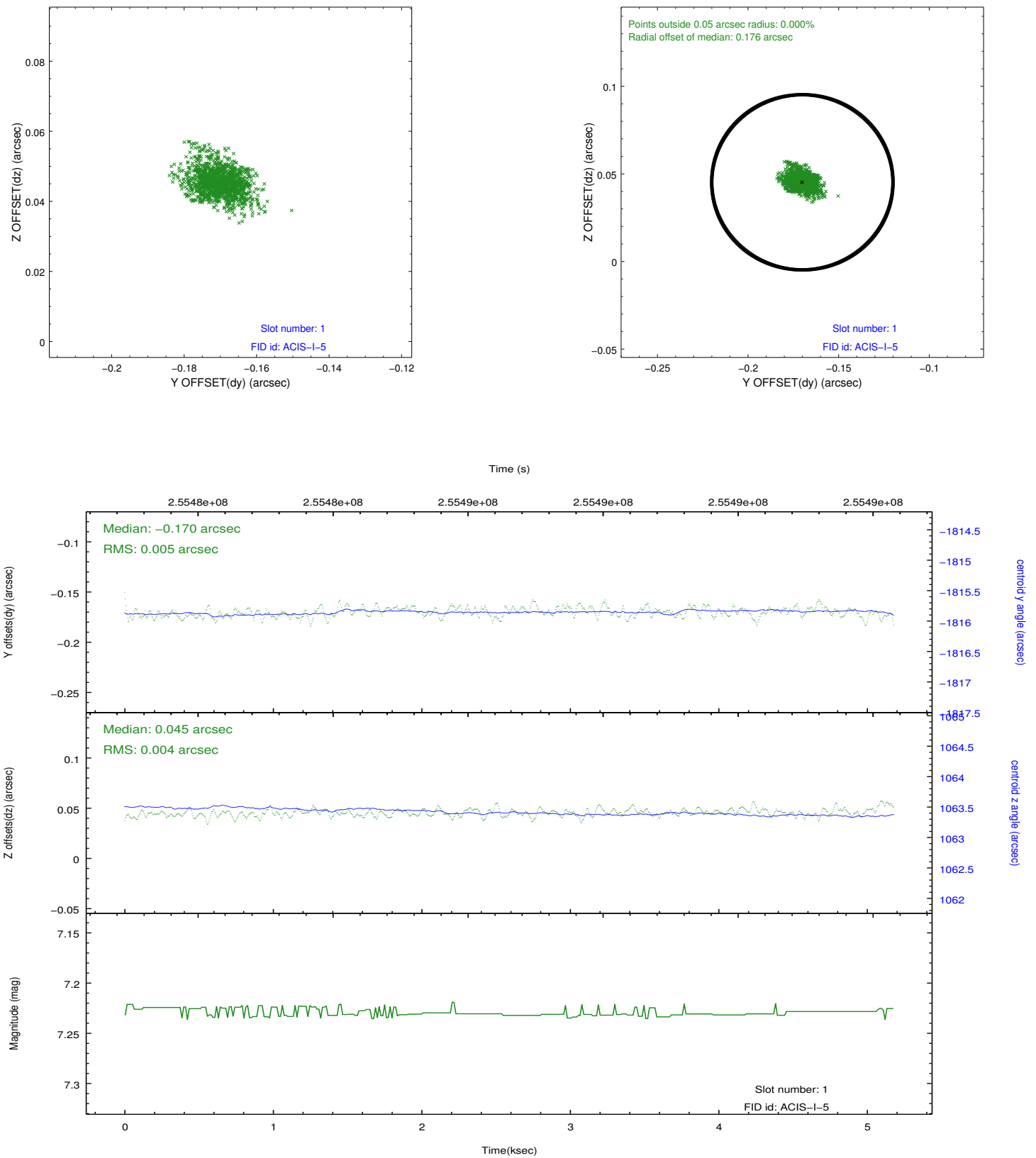


## 2.5 FID Slots

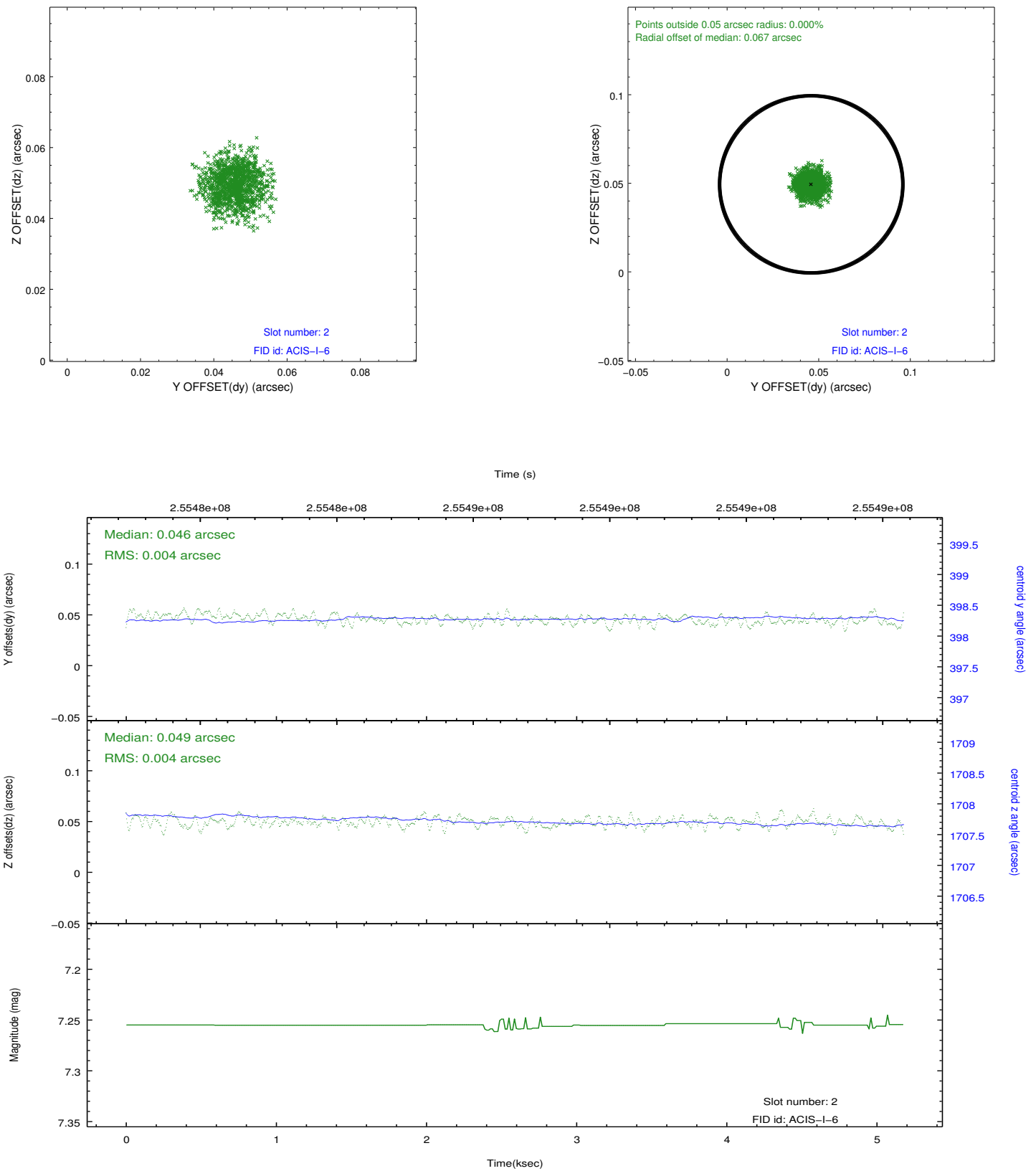
### 2.5.1 Slot 0



## 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)	2012.03.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.75199998

### A.2 Comments