

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 5868 - L2 Version 2  
Chandra X-Ray Center

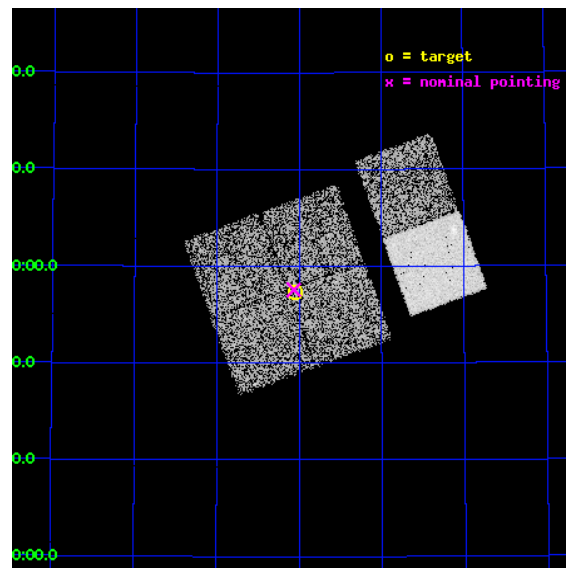
L2 Processing Date : Mar 24 2012

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# 1 Front

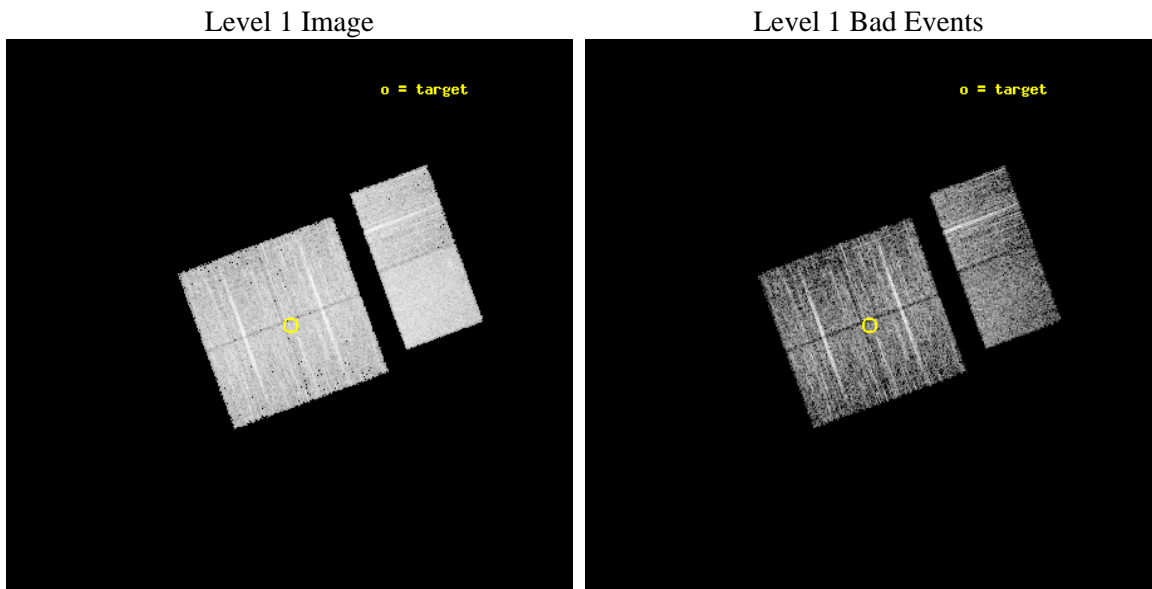
seq_num	900368	Sequence number
obs_id	5868	Observation id
title	The Spectral Energy Distributions of AGN: A Shallow Survey of the ELAIS-N1 Field	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	N1_14	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	242.260833	Observer's specified target RA [deg]
dec_targ	54.956194	Observer's specified target Dec [deg]
ra_nom	242.26637540284	Nominal RA [deg]
dec_nom	54.959536388098	Nominal Dec [deg]
roll_nom	69.838261956162	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4758.3999822736	Sum of GTIs [s]
livetime	4698.1462565335	Livetime [s]
ontime0	4758.3999822736	Sum of GTIs [s]
ontime1	4758.3999822736	Sum of GTIs [s]
ontime2	4758.3999822736	Sum of GTIs [s]
ontime3	4758.3999822736	Sum of GTIs [s]
ontime6	4758.3999822736	Sum of GTIs [s]
ontime7	4758.3999822736	Sum of GTIs [s]
l2events	43634	Number of level 2 events



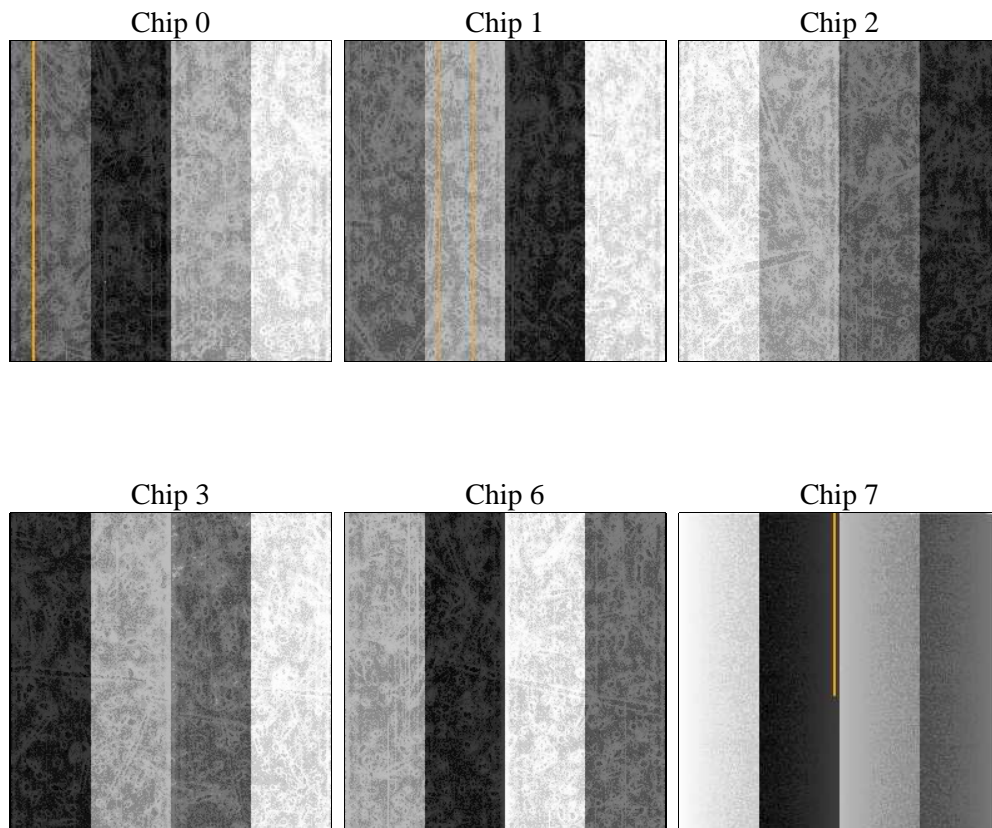
## 2 OBI

### 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	4758.3999822736	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	4758.3999822736	Sum of GTIs [s]
date	2012-03-24T23:51:33	Date and time of file creation	ontime1	4758.3999822736	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4758.3999822736	Sum of GTIs [s]
			ontime3	4758.3999822736	Sum of GTIs [s]
			ontime6	4758.3999822736	Sum of GTIs [s]
			ontime7	4758.3999822736	Sum of GTIs [s]
			l1events	254124	Number of level 1 events

### 2.1.4 Events

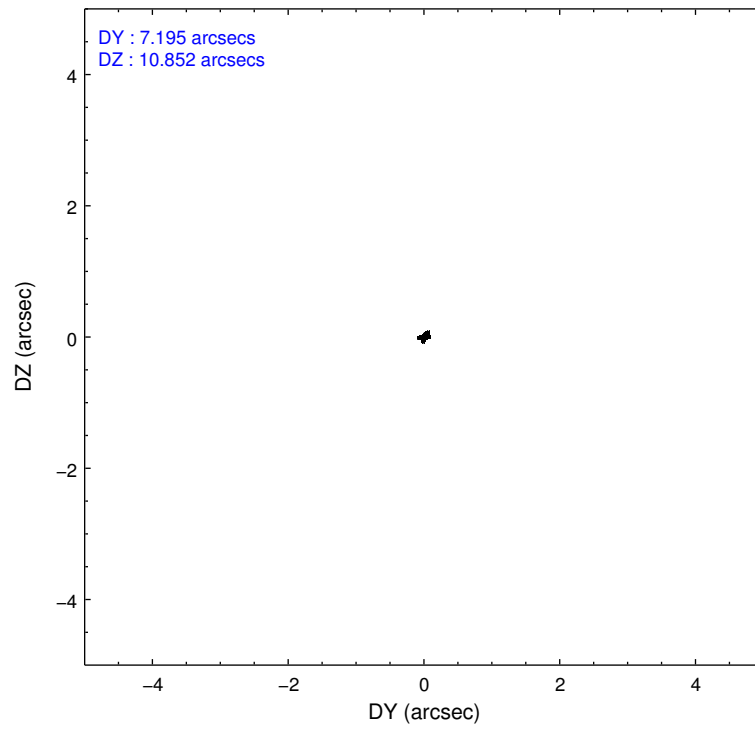
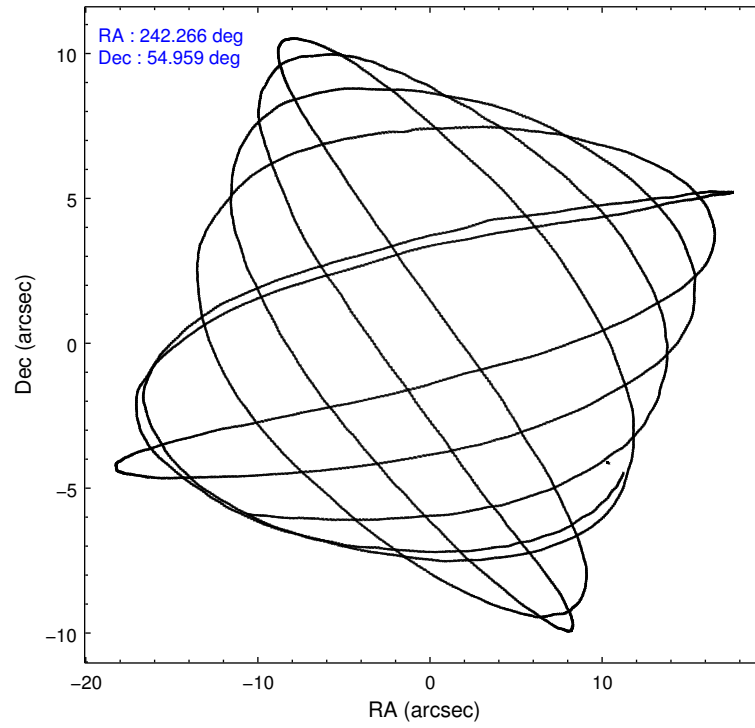
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	36541	38654	42040	39246	41938	55705	grade 0 events	2016	1998	2097	2035	1816	2099
rejected events	31785	33526	37225	34543	37179	32323		5%	5%	4%	5%	4%	3%
rejected %	86%	86%	88%	88%	88%	58%	grade 1 events	19	31	17	22	11	43
								0%	0%	0%	0%	0%	0%
							grade 2 events	1027	1143	1000	900	1035	4556
								2%	2%	2%	2%	2%	8%
							grade 3 events	474	486	447	498	506	2049
								1%	1%	1%	1%	1%	3%
							grade 4 events	415	460	470	429	448	2086
								1%	1%	1%	1%	1%	3%
							grade 5 events	1611	1726	1547	1843	1939	5231
								4%	4%	3%	4%	4%	9%
							grade 6 events	828	1051	807	845	956	12612
								2%	2%	1%	2%	2%	22%
							grade 7 events	30151	31759	35655	32674	35227	27029
								82%	82%	84%	83%	83%	48%

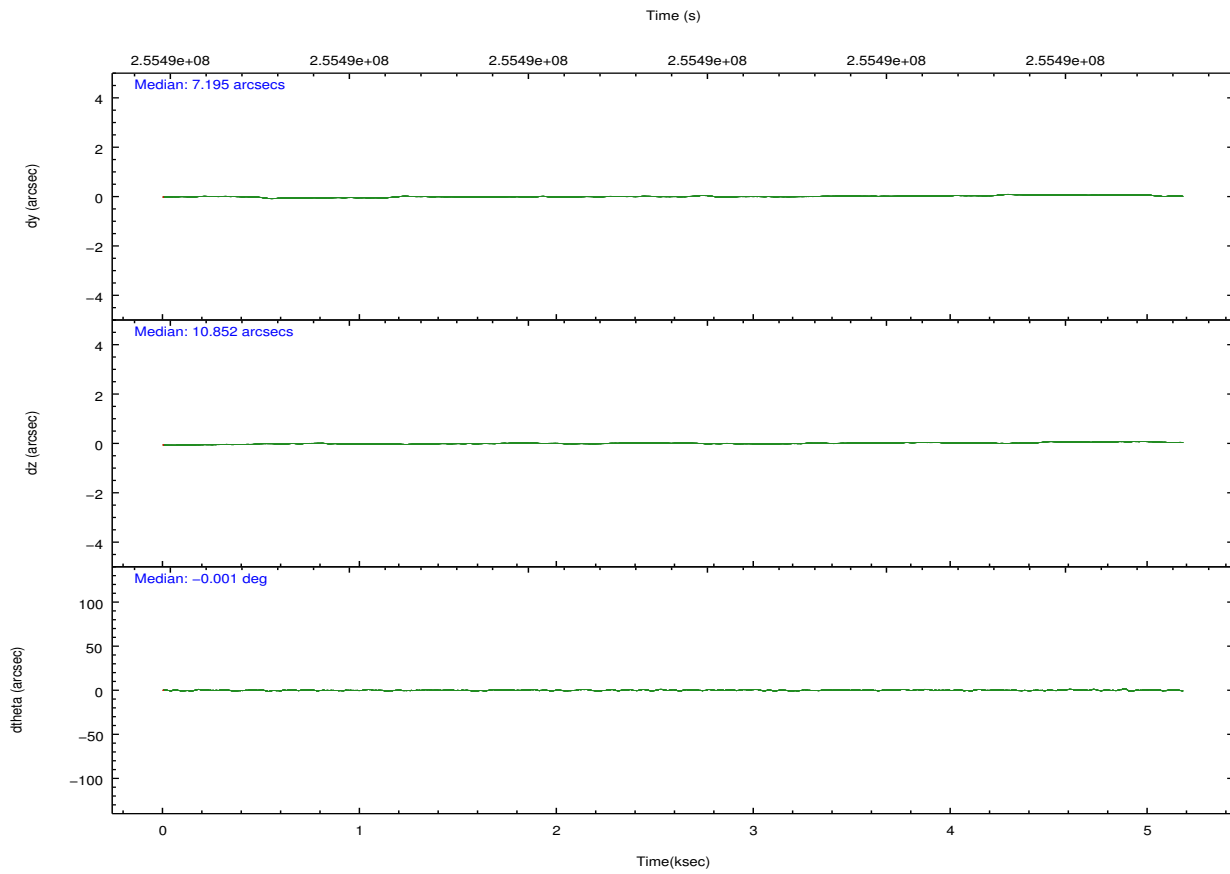
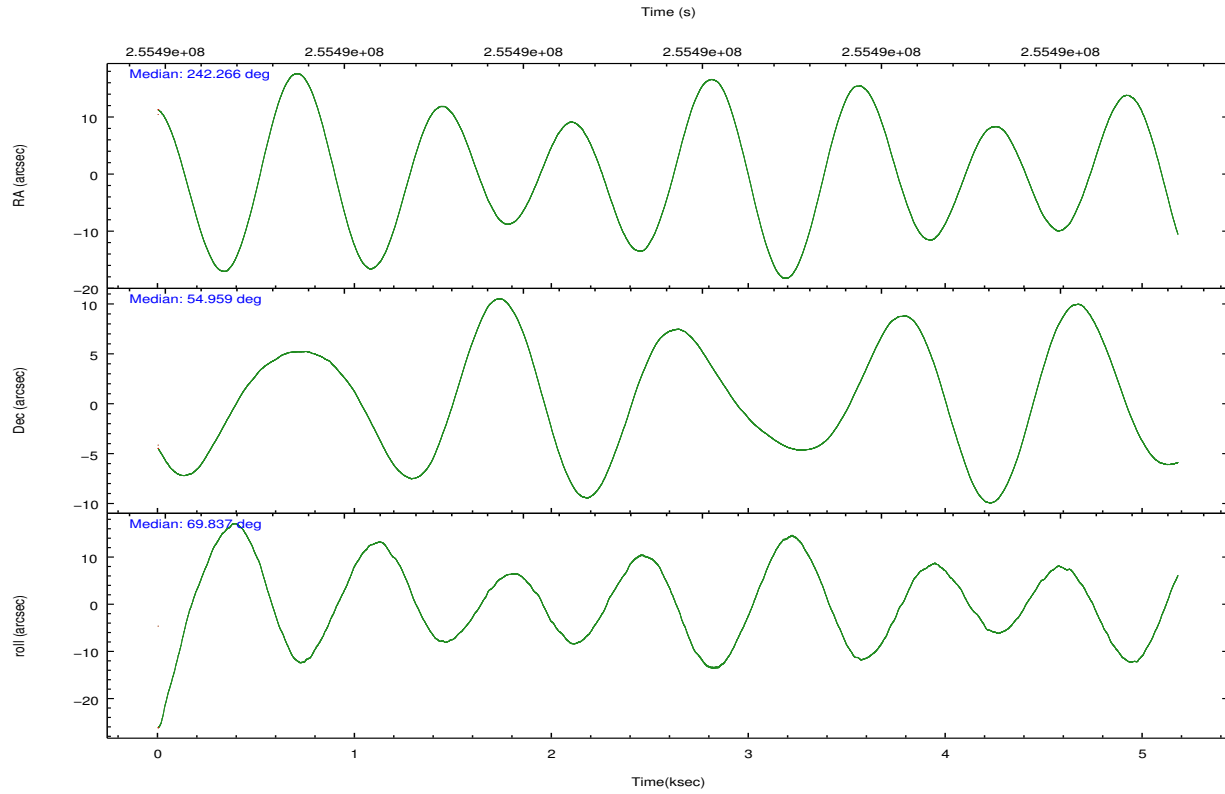


## 2.2 Compared Parameters

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	242.274689	242.2663754028419	Subarray requested	NONE	NONE
[deg] Pointing Dec	54.932615	54.95953638809793	Alternating exposures requested	N	N
[deg] Pointing Roll	69.622773	69.83826195616243	[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)	255489399.184000	255489022.96883			
Observation start date	2006-02-05T01:15:34	2006-02-05T01:10:22			
[s] Observation end time (MET)	255494399.184000	255494537.98158			
Observation end date	2006-02-05T02:38:54	2006-02-05T02:42:17			
Read mode	TIMED	TIMED			

## 2.3 Aspect



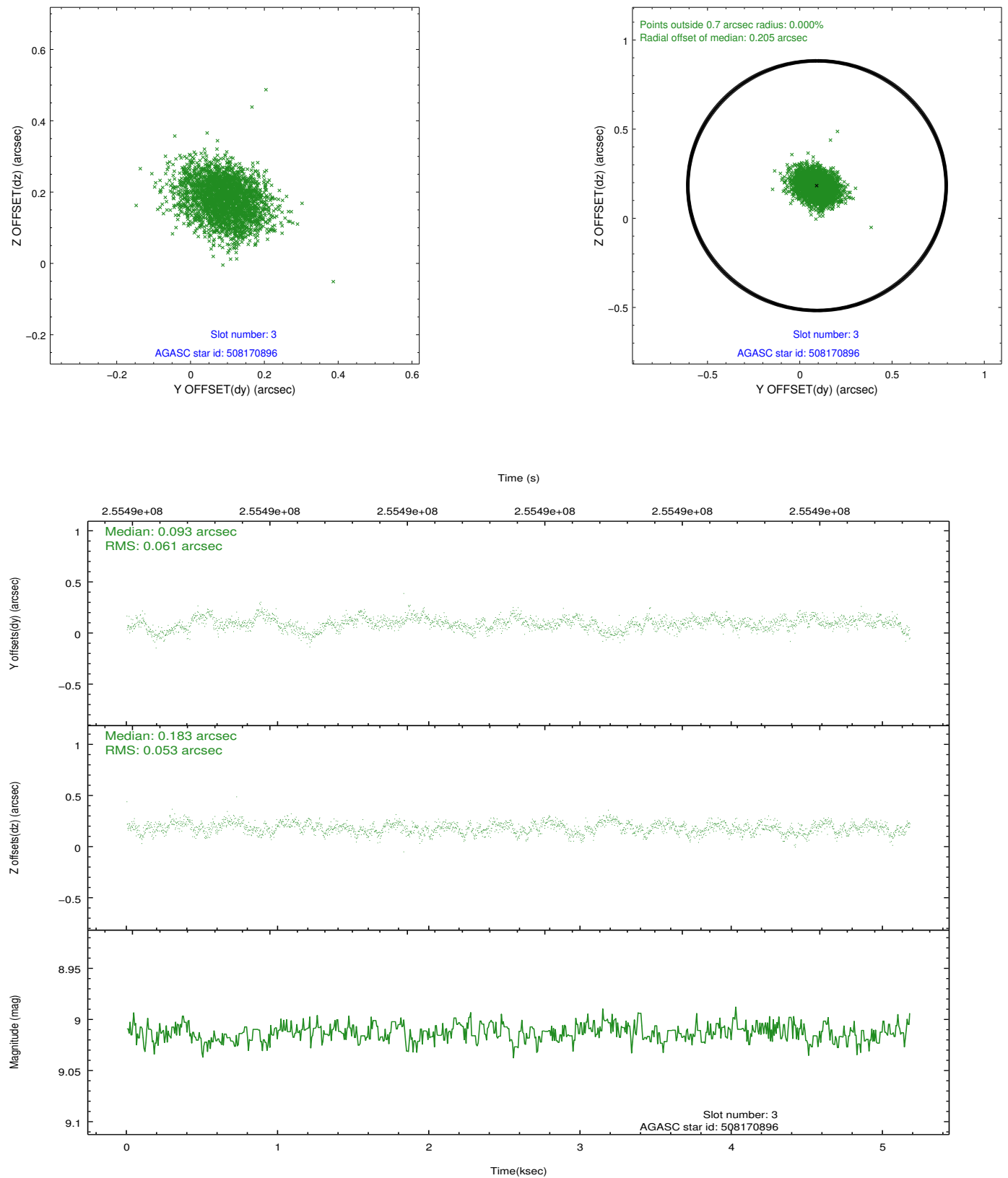


### Slot Statistics

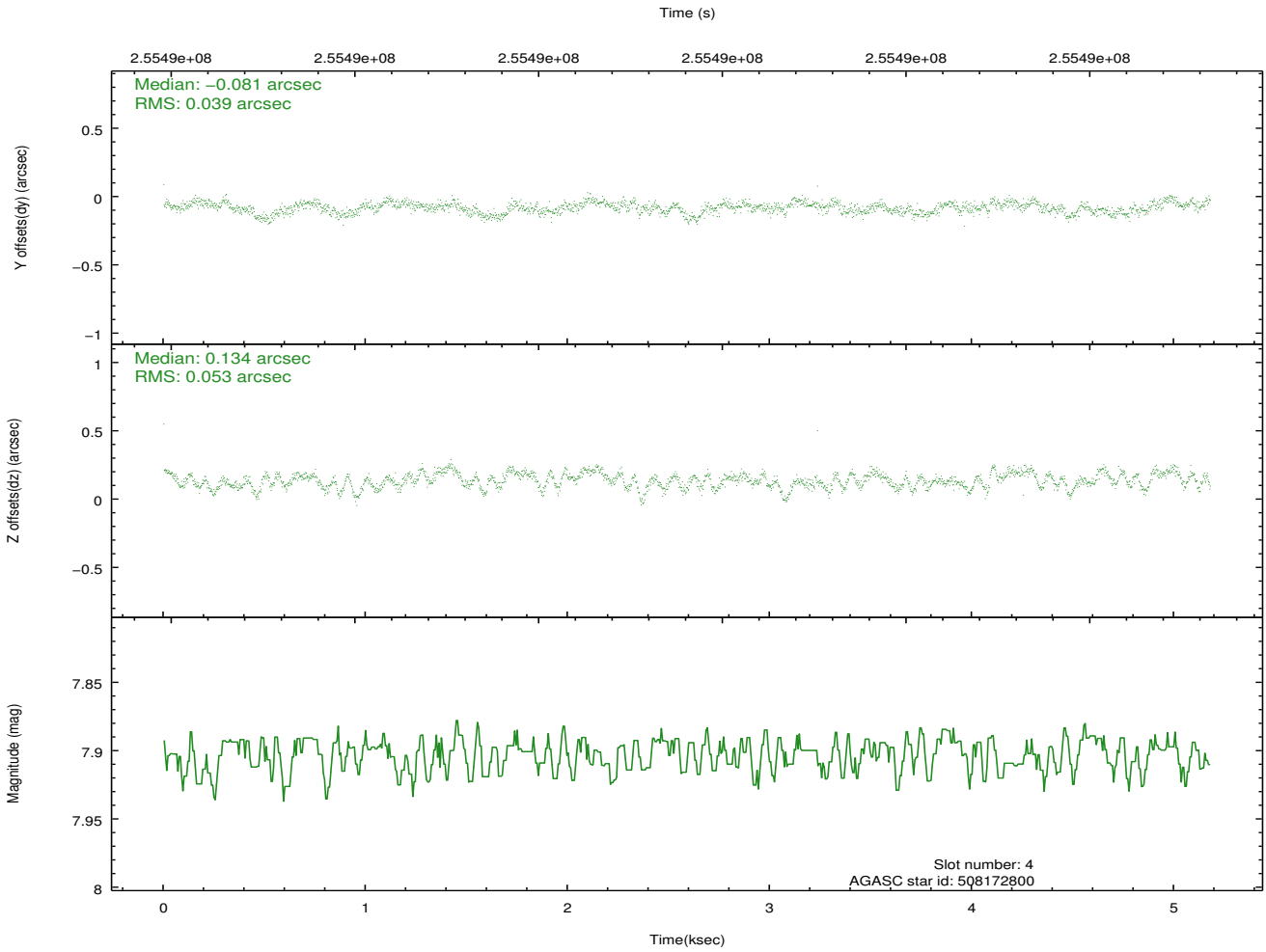
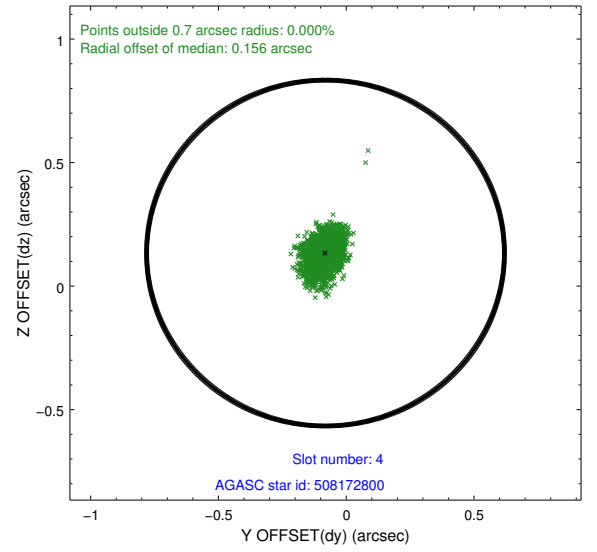
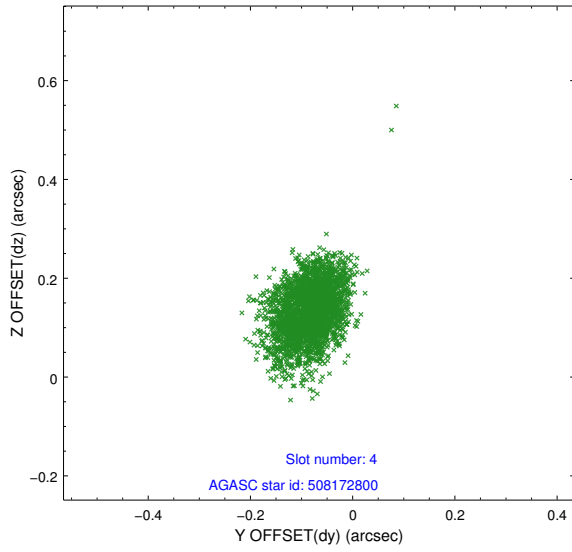
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1264	0.037	-0.026	0.006	0.012	0.000000	0.000000	932.50	-834.39
1	FID	ACIS-I-5	7.23	1264	-0.170	0.049	0.006	0.010	0.000000	0.000000	-1815.14	1062.64
2	FID	ACIS-I-6	7.25	1264	0.043	0.047	0.006	0.011	0.000000	0.000000	396.82	1708.43
3	GUIDE	508170896	9.01	2525	0.093	0.183	0.086	0.138	242.052968	54.527984	-1525.85	-72.34
4	GUIDE	508172800	7.90	2526	-0.081	0.134	0.068	0.115	242.573753	54.657892	-709.51	-927.38
5	GUIDE	508573872	8.66	2524	-0.101	0.045	0.090	0.150	241.738816	55.437101	1325.16	1659.84
6	GUIDE	508170024	9.38	2526	0.069	-0.062	0.087	0.144	241.730655	54.371050	-2287.51	367.86
7	GUIDE	508569792	9.63	2522	0.028	-0.297	0.110	0.179	241.118764	55.014289	-537.44	2345.92

## 2.4 Star Slots

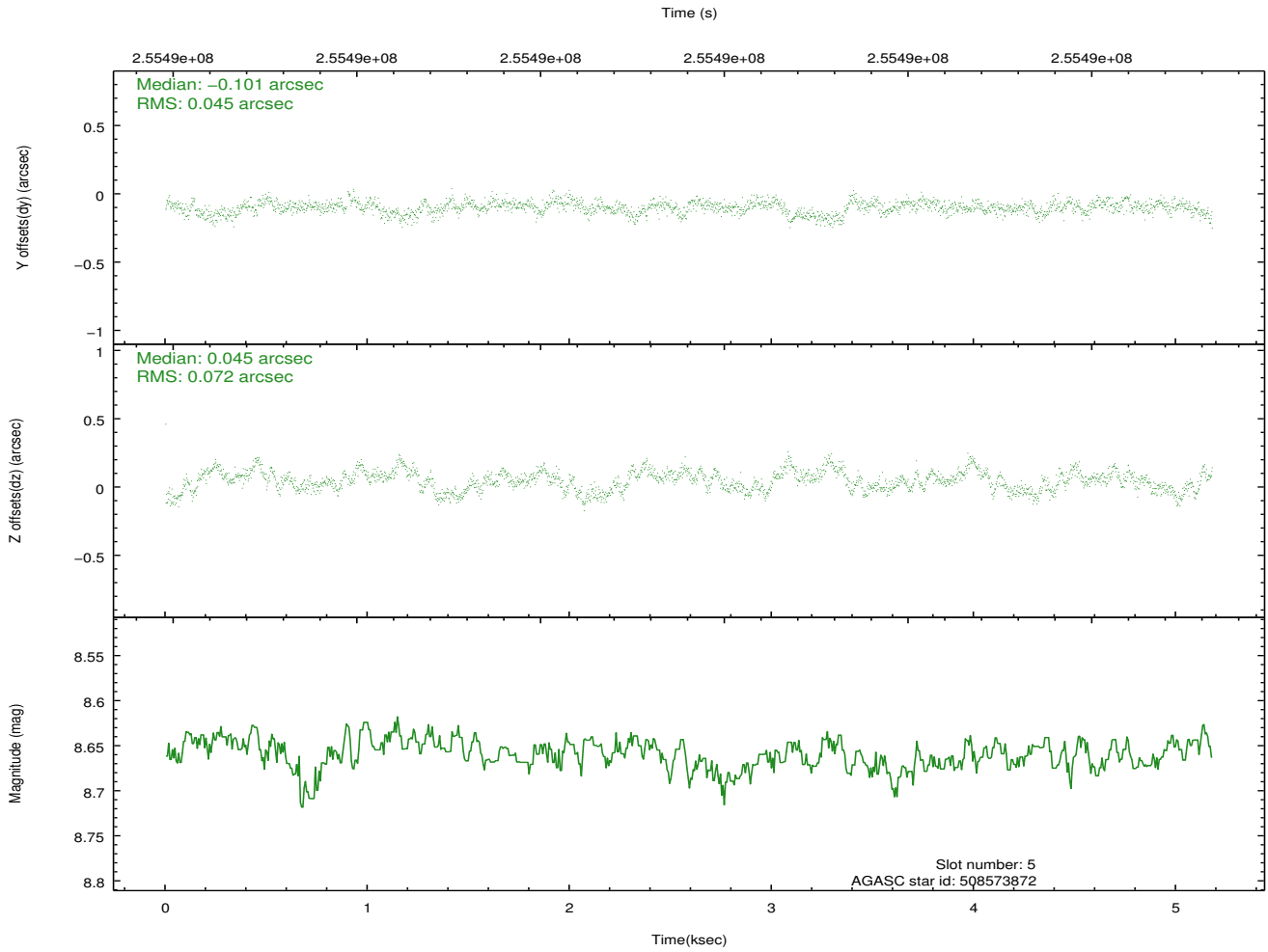
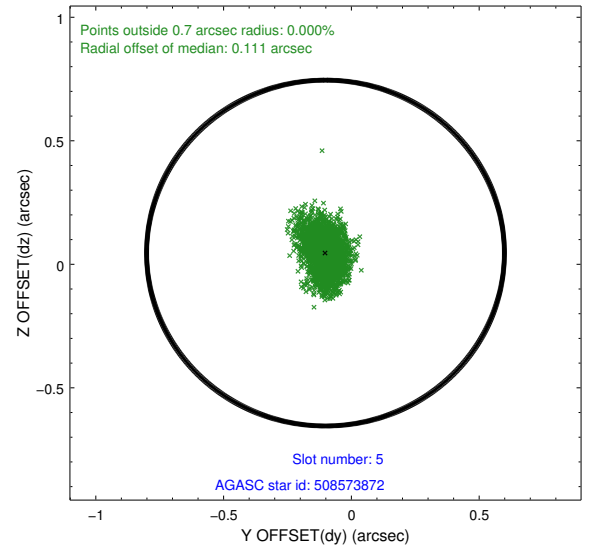
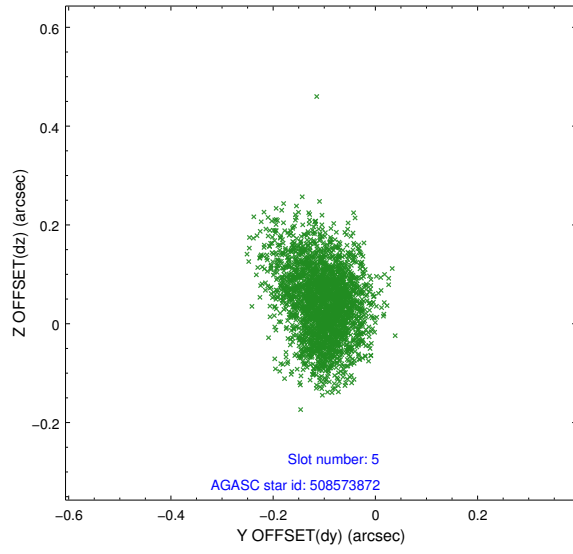
### 2.4.1 Slot 3



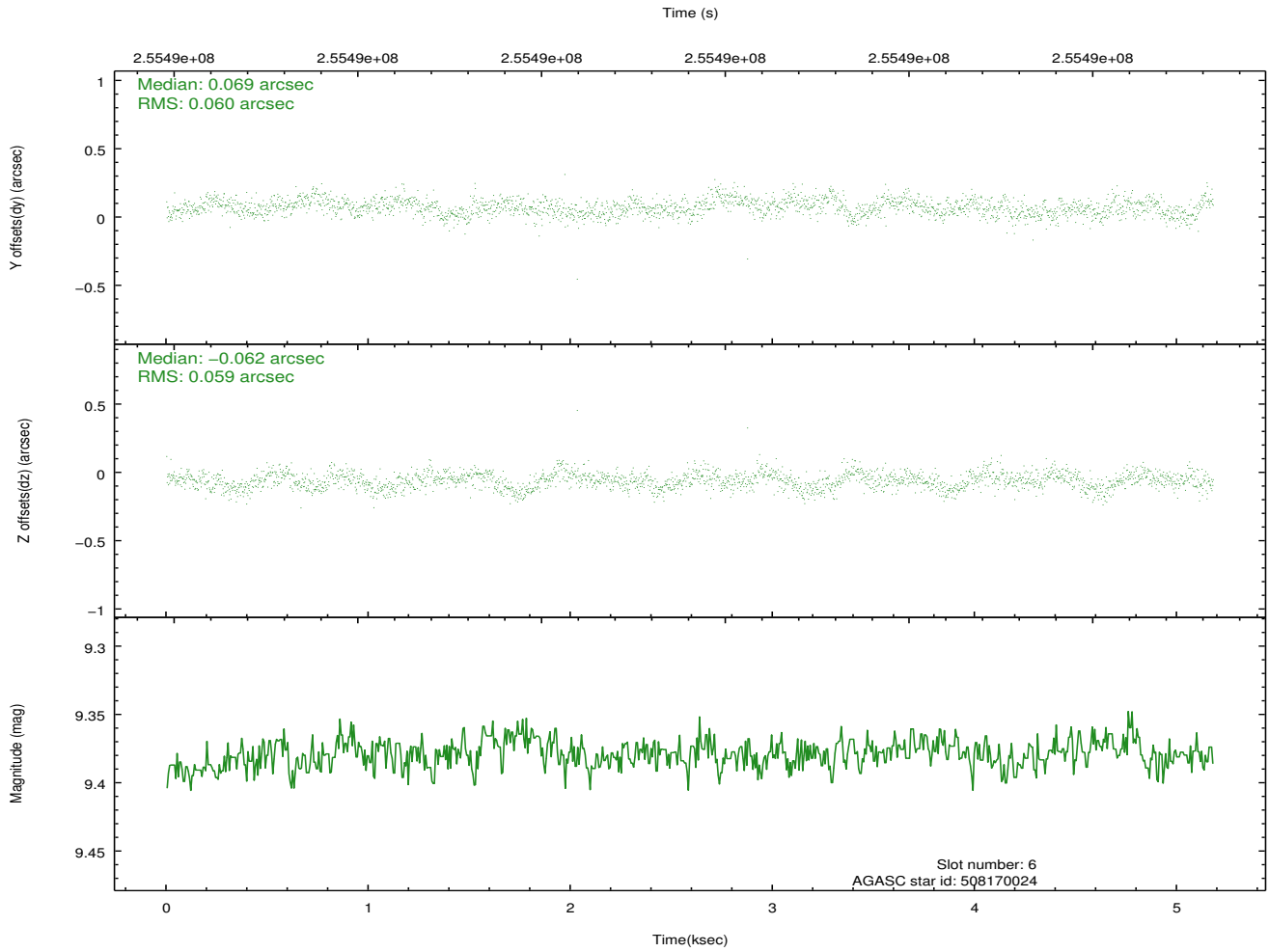
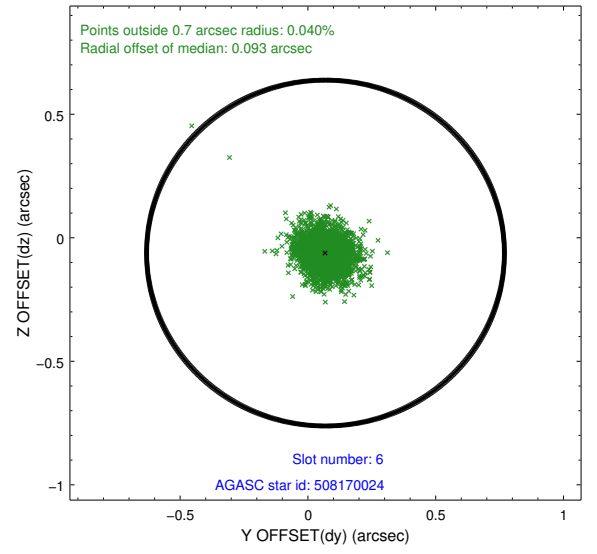
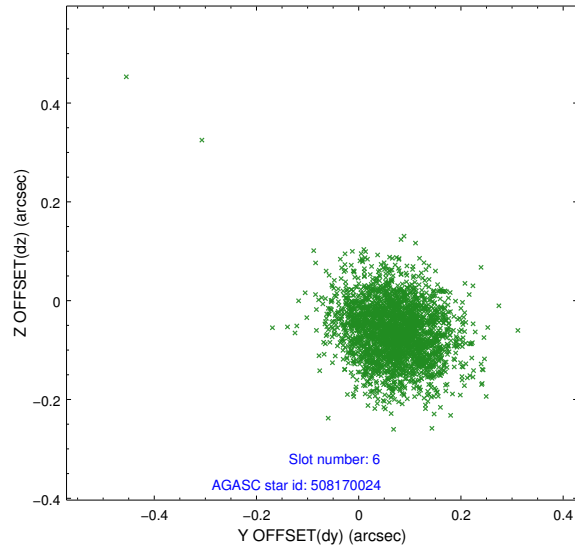
## 2.4.2 Slot 4



### 2.4.3 Slot 5

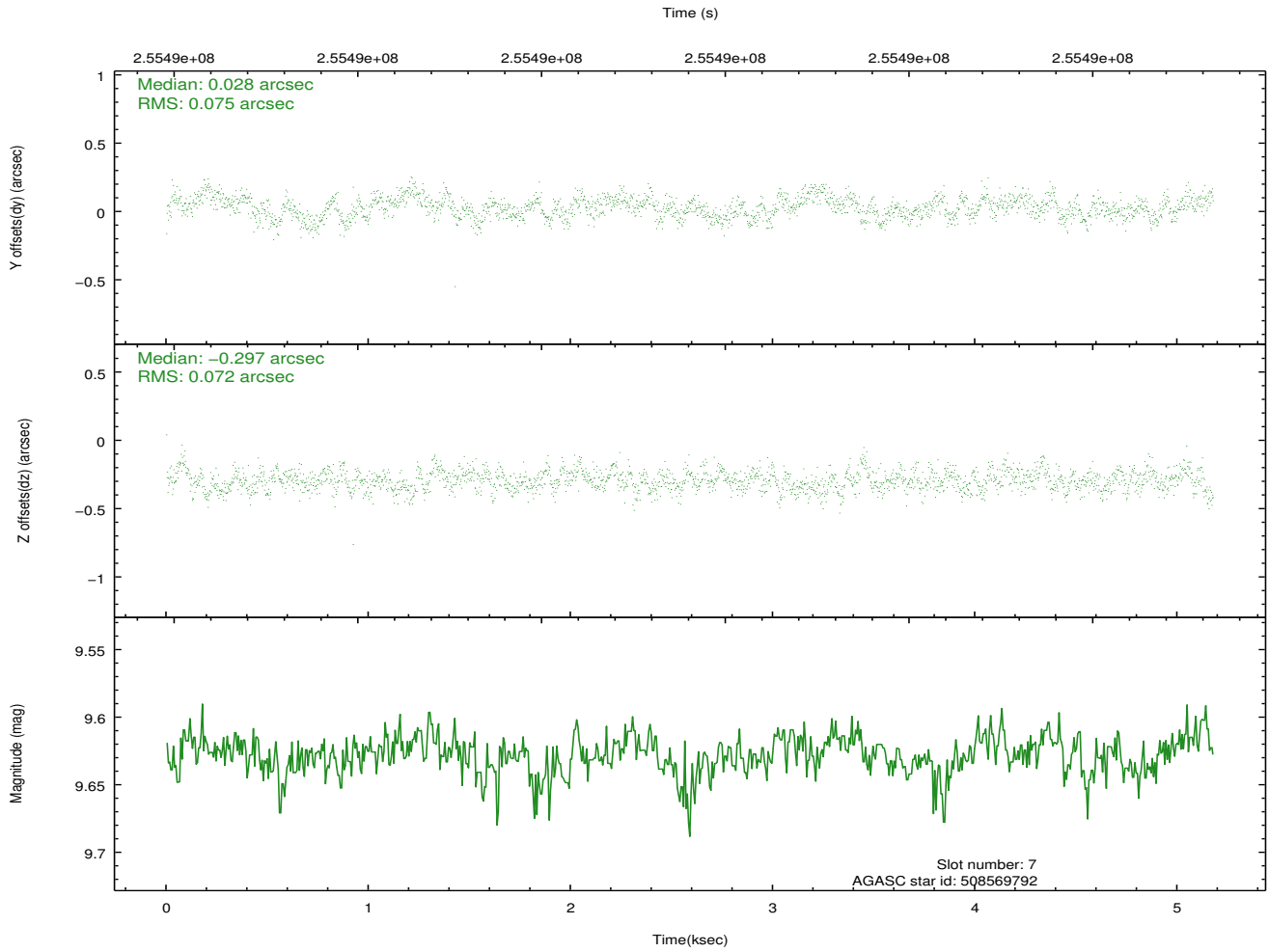
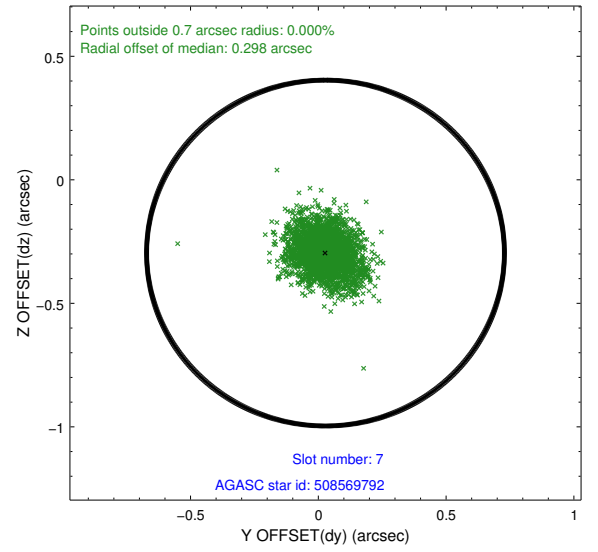
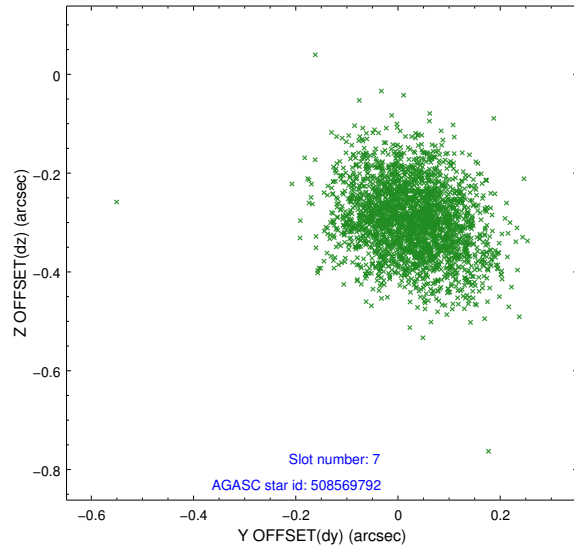


## 2.4.4 Slot 6



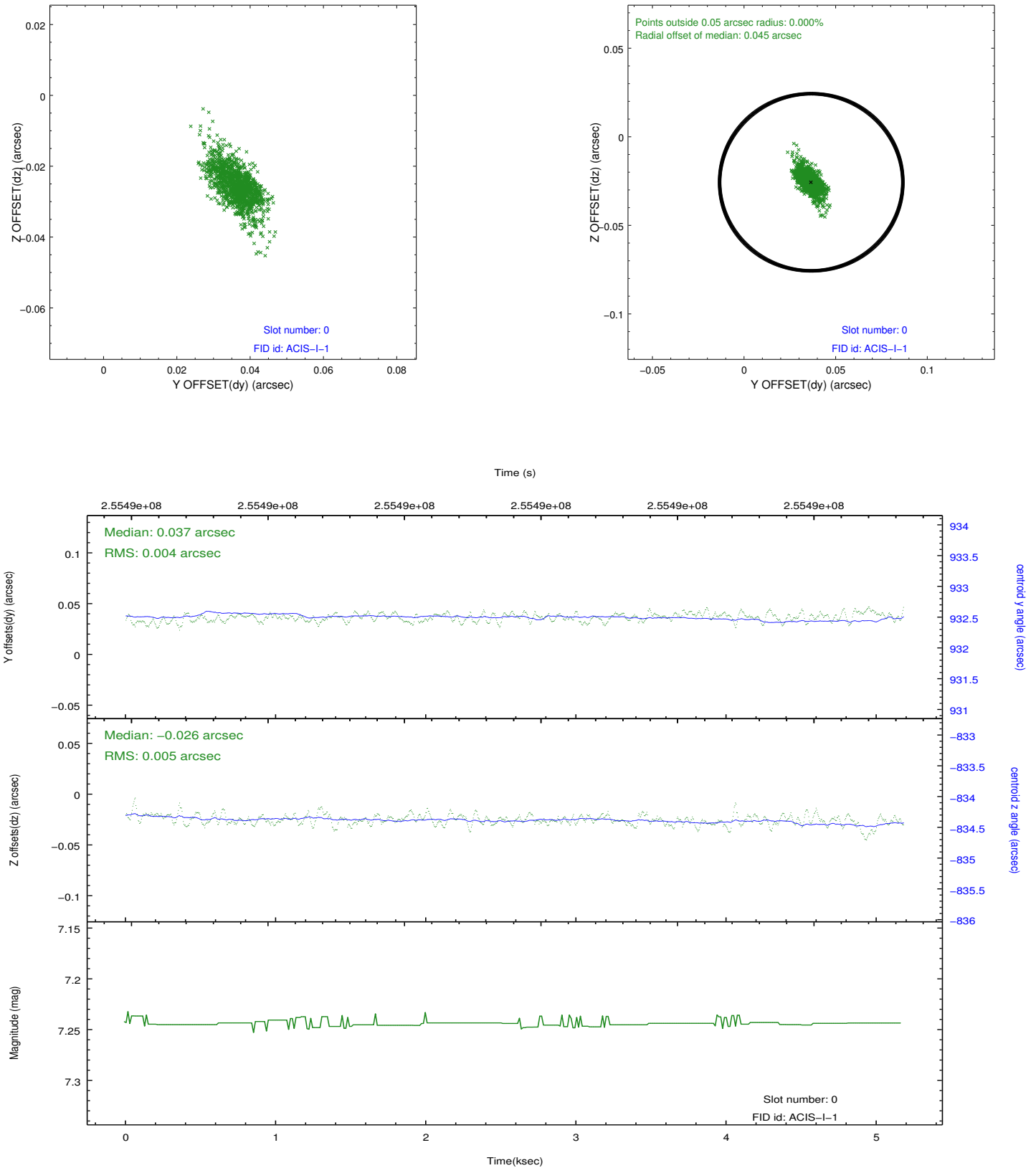


## 2.4.5 Slot 7

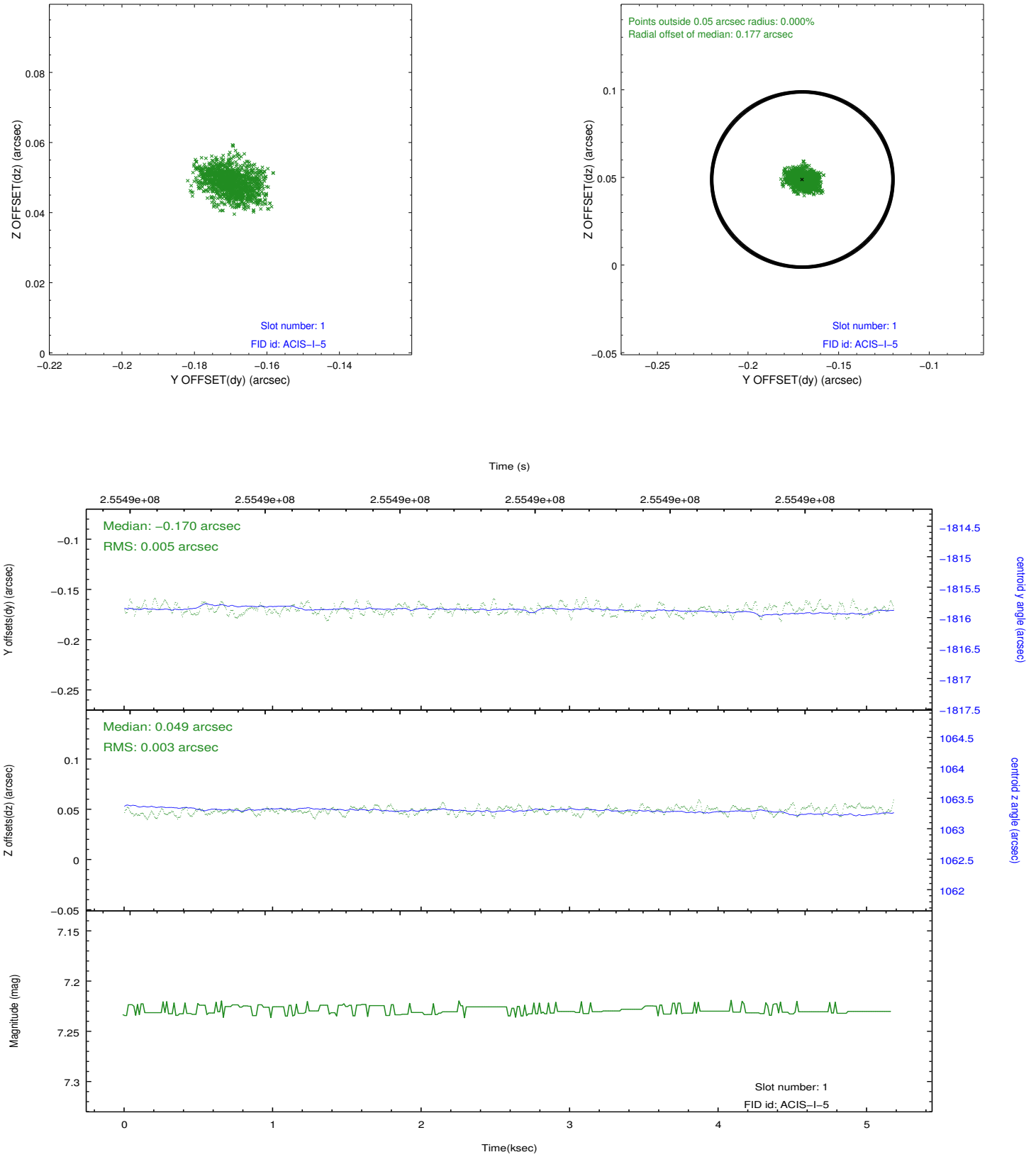


## 2.5 FID Slots

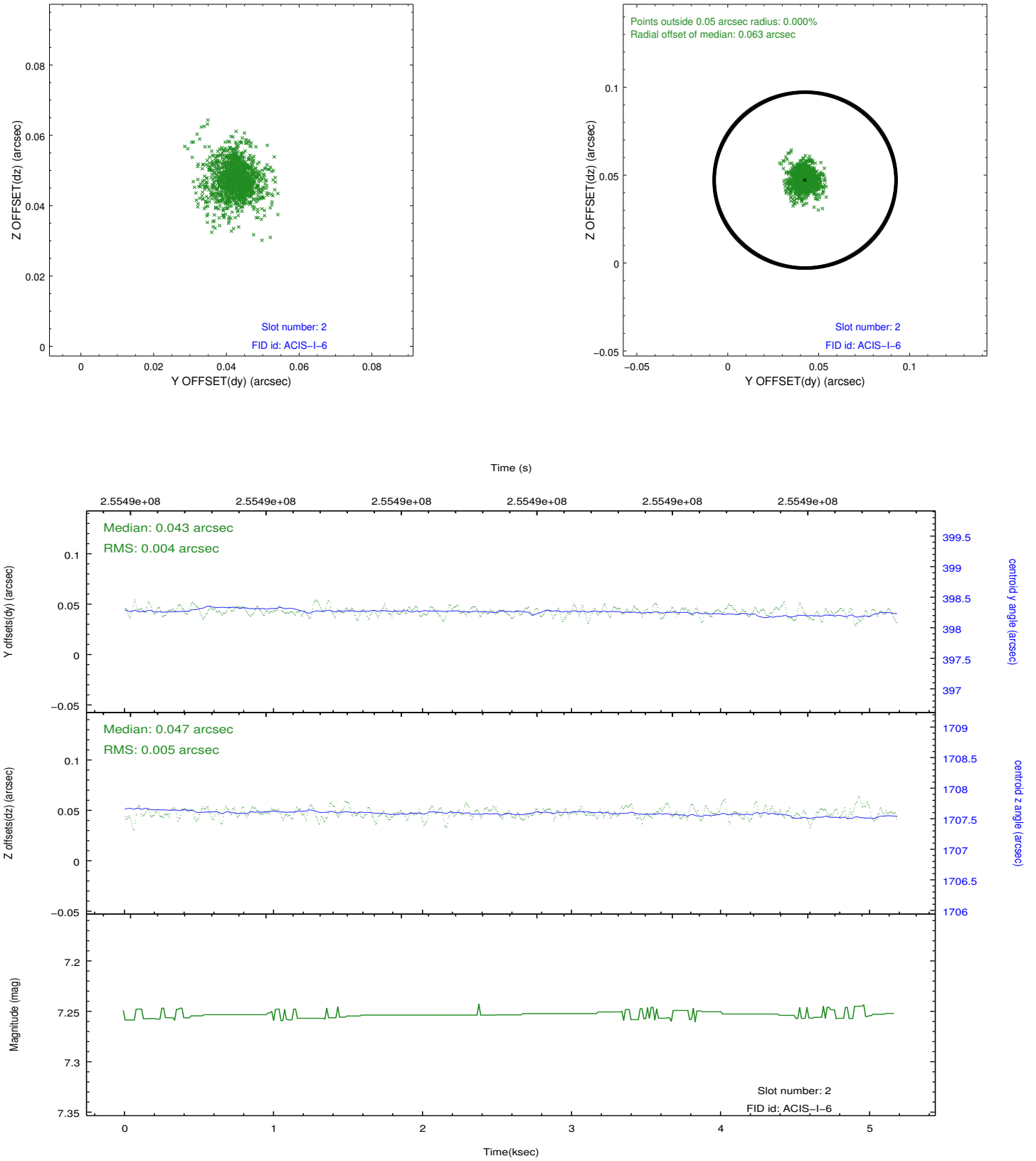
### 2.5.1 Slot 0



## 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	4.75839998

### A.2 Comments