

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 4503 - L2 Version 3  
Chandra X-Ray Center

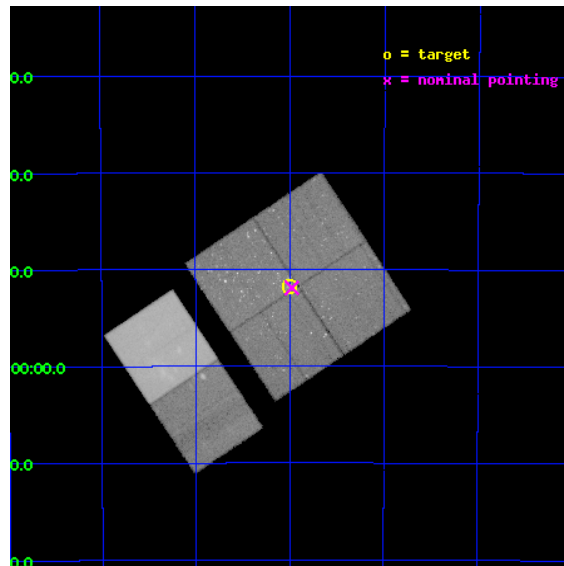
L2 Processing Date : Dec 10 2012

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# 1 Front

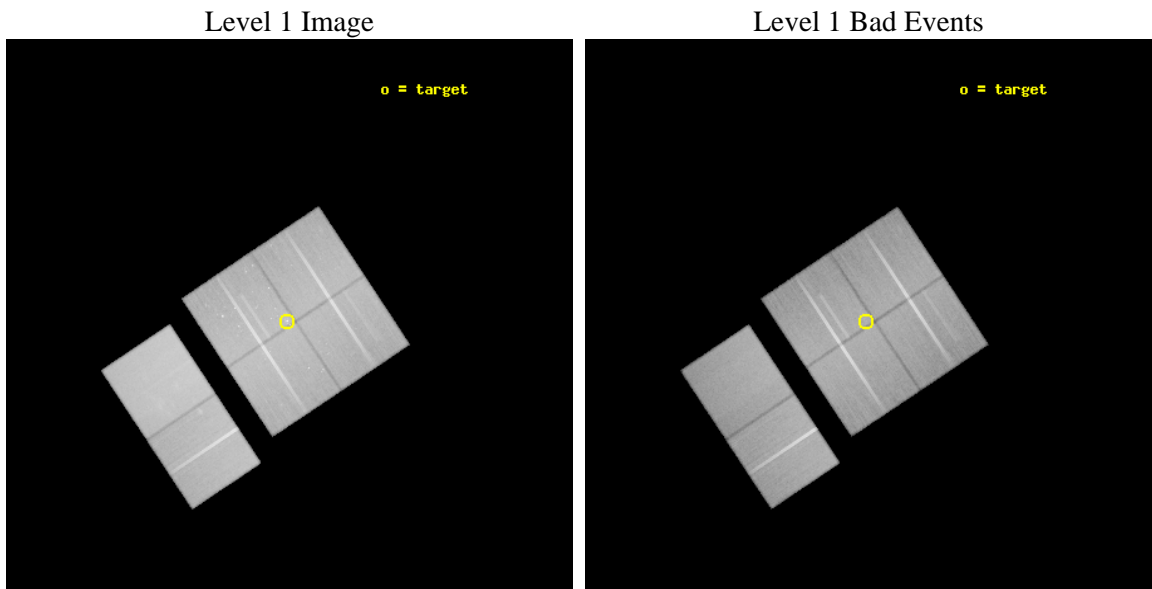
seq_num	200272	Sequence number
obs_id	4503	Observation id
title	Triggered Star Formation and Diffuse Emission in Ara OB1	Proposal t
observer	Dr. Scott Wolk	Principal investigator
object	RCW 108	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	250.000417	Observer's specified target RA [deg]
dec_targ	-48.8625	Observer's specified target Dec [deg]
ra_nom	249.99451948197	Nominal RA [deg]
dec_nom	-48.865067906901	Nominal Dec [deg]
roll_nom	236.35875786225	Nominal Roll [deg]
revision	3	Processing version of data
ontime	89951.247701436	Sum of GTIs [s]
livetime	88812.230840902	Livetime [s]
ontime0	89951.124611348	Sum of GTIs [s]
ontime1	89944.68365103	Sum of GTIs [s]
ontime2	89951.206691325	Sum of GTIs [s]
ontime3	89951.247701436	Sum of GTIs [s]
ontime6	89948.088821173	Sum of GTIs [s]
ontime7	89954.529731631	Sum of GTIs [s]
l2events	808276	Number of level 2 events



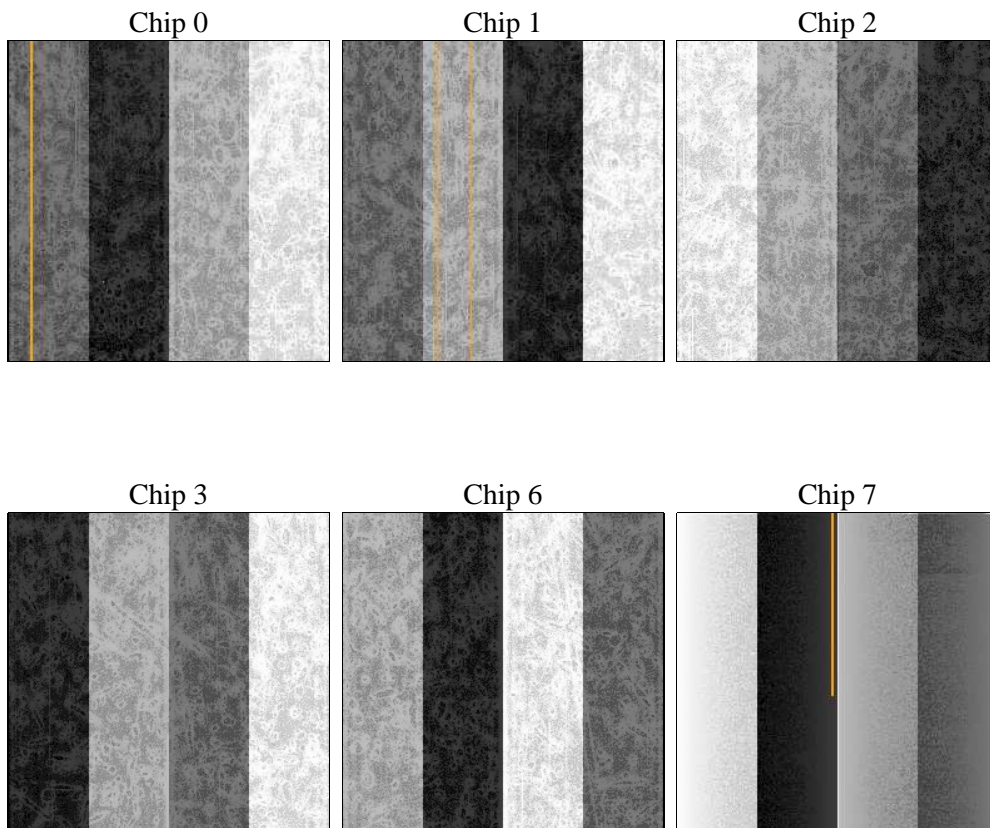
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	90000.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	89951.247701436	Sum of GTIs [s]
caldbver	4.5.4	&#160	ontime0	89951.124611348	Sum of GTIs [s]
date	2012-12-10T16:05:53	Date and time of file creation	ontime1	89944.68365103	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	89951.206691325	Sum of GTIs [s]
			ontime3	89951.247701436	Sum of GTIs [s]
			ontime6	89948.088821173	Sum of GTIs [s]
			ontime7	89954.529731631	Sum of GTIs [s]
			l1events	4467749	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	655779	659116	719923	721543	740637	970751	grade 0 events	39893	38875	43352	54276	36171	38846
rejected events	566465	565837	628915	617039	652685	558475		6%	5%	6%	7%	4%	4%
rejected %	86%	85%	87%	85%	88%	57%	grade 1 events	440	373	490	590	366	925
								0%	0%	0%	0%	0%	0%
							grade 2 events	18150	19498	17730	17906	18018	82782
								2%	2%	2%	2%	2%	8%
							grade 3 events	8607	8806	8199	8812	8409	37232
								1%	1%	1%	1%	1%	3%
							grade 4 events	7885	8954	8134	8617	8057	36842
								1%	1%	1%	1%	1%	3%
							grade 5 events	28080	29606	27175	31600	33059	91517
								4%	4%	3%	4%	4%	9%
							grade 6 events	14786	17153	13596	14899	17304	216607
								2%	2%	1%	2%	2%	22%
							grade 7 events	537938	535851	601247	584843	619253	466000
								82%	81%	83%	81%	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	249.997016	249.9945194819712	Subarray requested	NONE	NONE
[deg] Pointing Dec	-48.837717	-48.86506790690107	Alternating exposures requested	N	N
[deg] Pointing Roll	236.151948	236.3587578622478	[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)	215060493.184000	215059070.26093			
Observation start date	2004-10-25T03:00:29	2004-10-25T02:37:50			
[s] Observation end time (MET)	215150493.184000	215151090.66506			
Observation end date	2004-10-26T04:00:29	2004-10-26T04:11:30			
Read mode	TIMED	TIMED			

## 2.3 Aspect

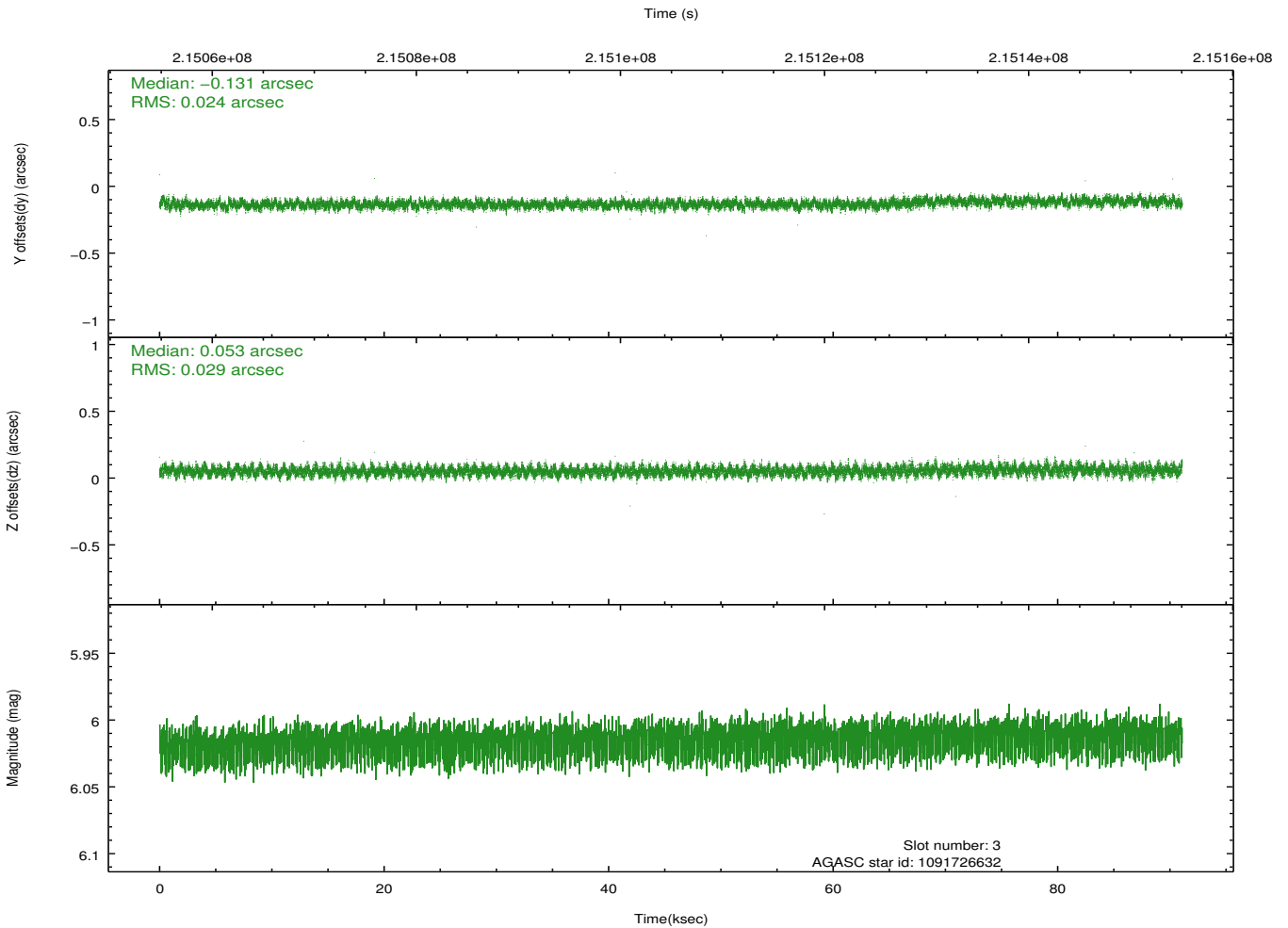
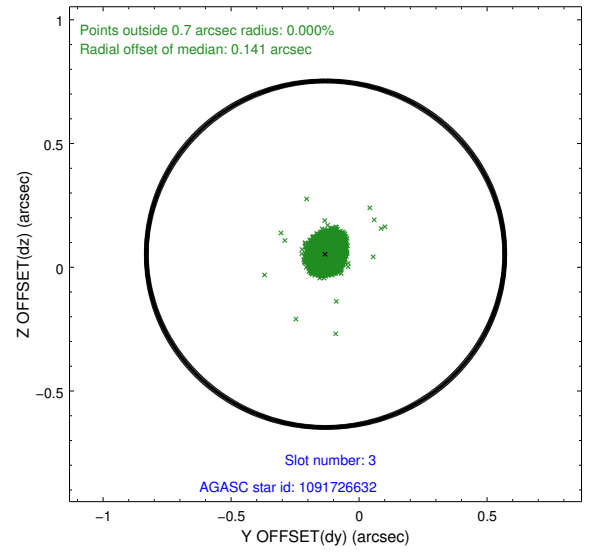
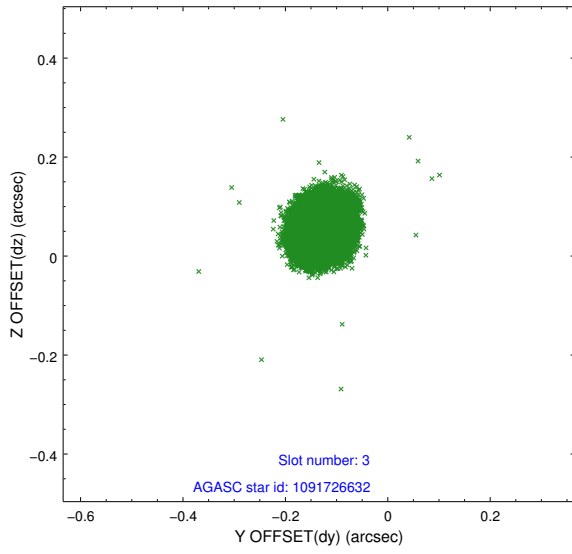


### Slot Statistics

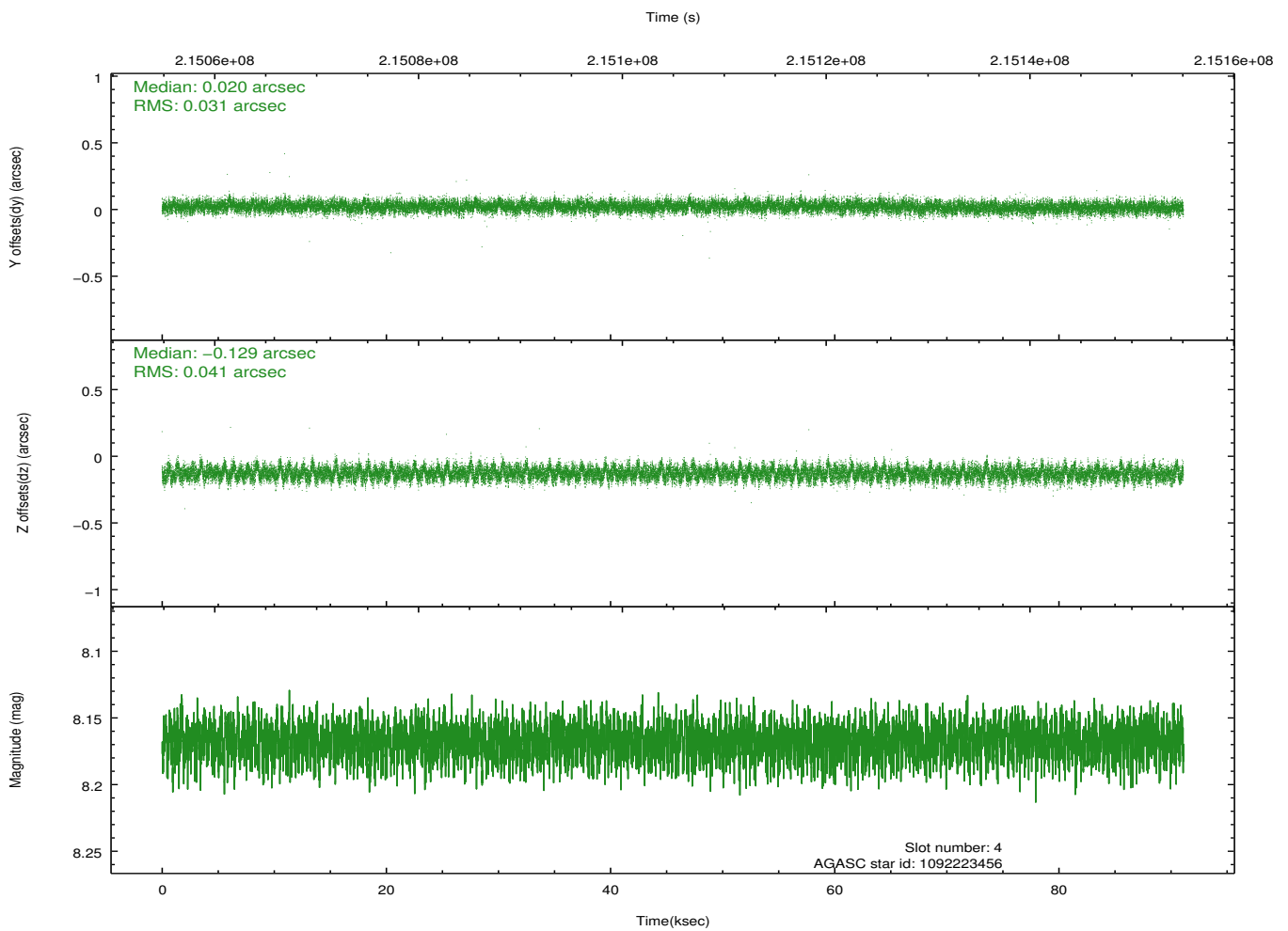
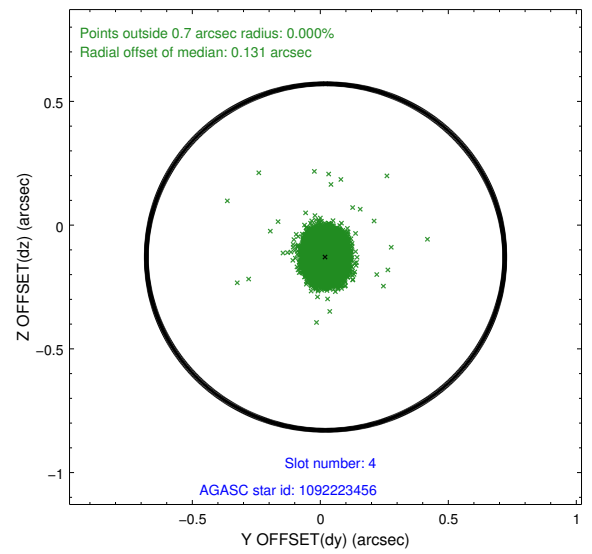
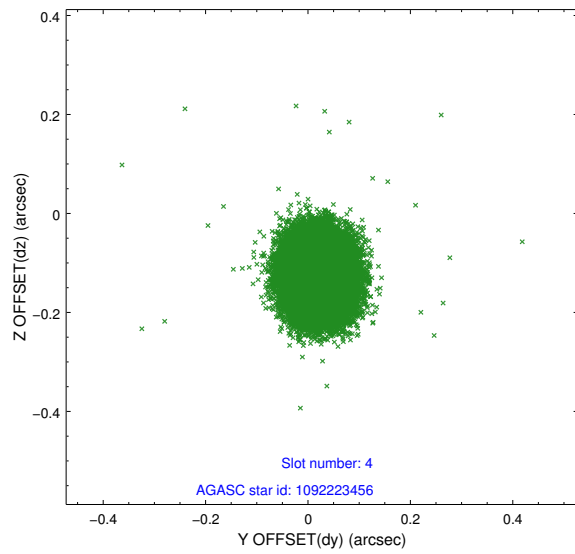
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	22221	0.047	-0.025	0.011	0.021	0.000000	0.000000	934.72	-834.59
1	FID	ACIS-I-5	7.23	22222	-0.189	0.056	0.012	0.025	0.000000	0.000000	-1813.63	1063.07
2	FID	ACIS-I-6	7.24	22222	0.049	0.040	0.012	0.023	0.000000	0.000000	400.40	1707.42
3	GUIDE	1091726632	6.01	44444	-0.131	0.053	0.040	0.065	250.066238	-48.307770	-1676.53	-924.76
4	GUIDE	1092223456	8.17	44428	0.020	-0.129	0.055	0.088	249.833927	-49.074918	924.17	156.60
5	GUIDE	1092225936	8.64	44360	0.025	0.113	0.059	0.096	249.410104	-49.291601	2129.37	-230.92
6	GUIDE	1092228896	9.06	44421	0.194	-0.127	0.081	0.135	248.711679	-48.997208	2189.93	-2187.00
7	GUIDE	1091873240	8.47	44430	-0.107	0.087	0.068	0.114	250.980008	-48.511597	-2268.12	1301.65

## 2.4 Star Slots

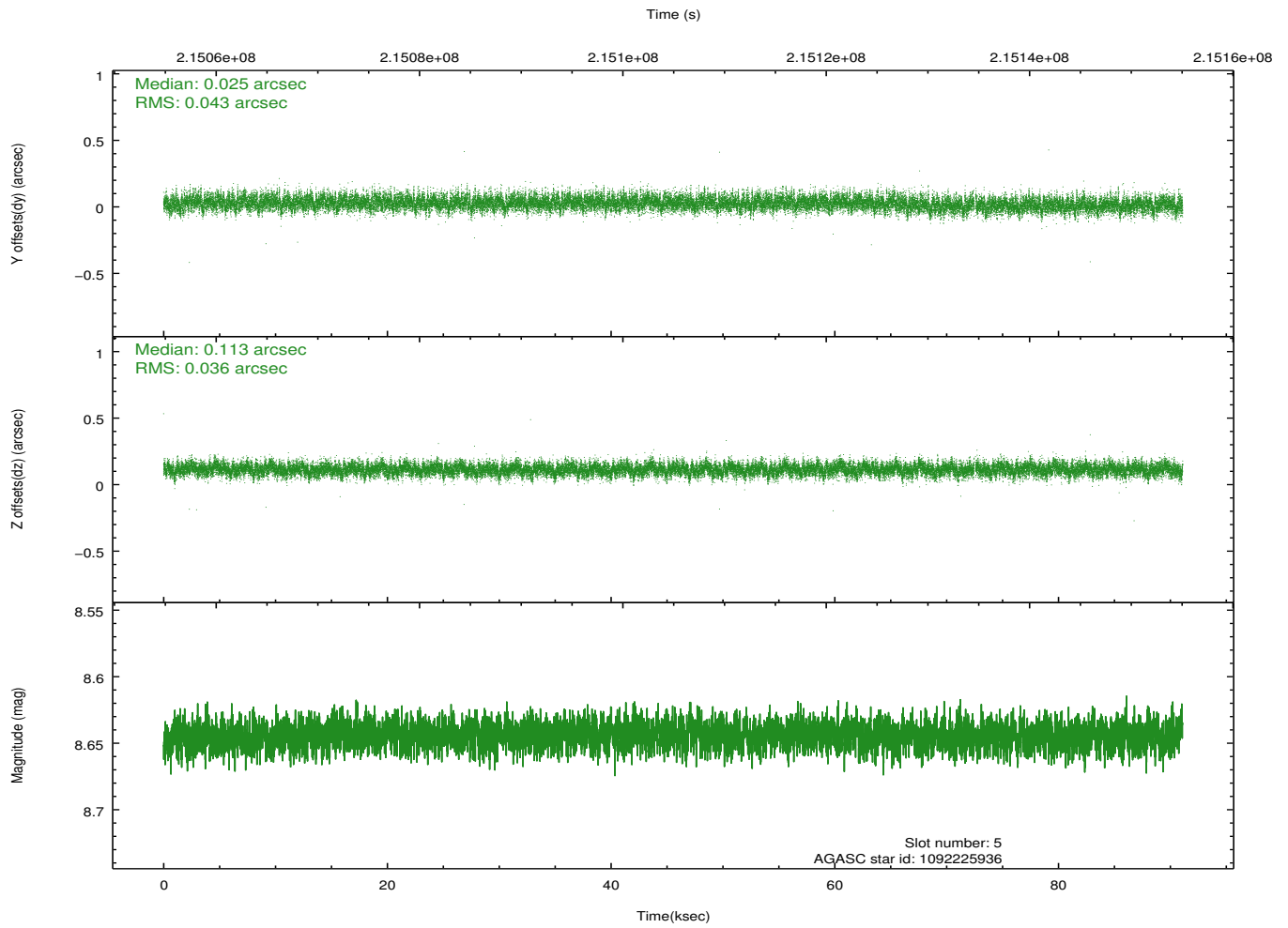
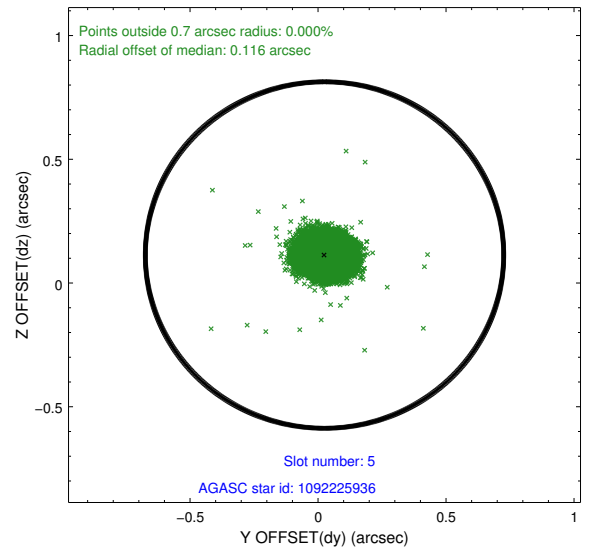
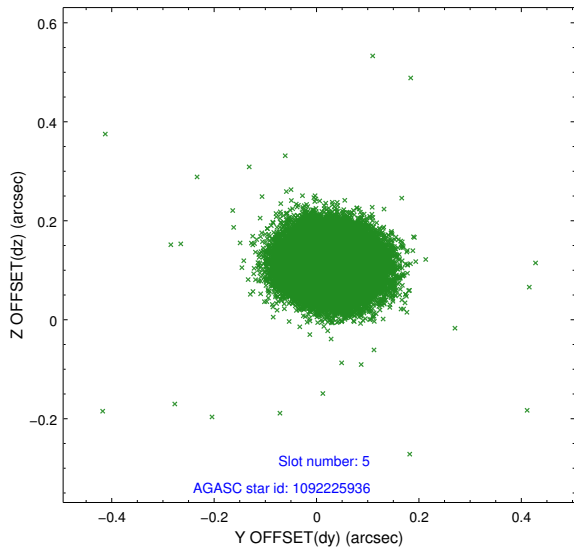
### 2.4.1 Slot 3



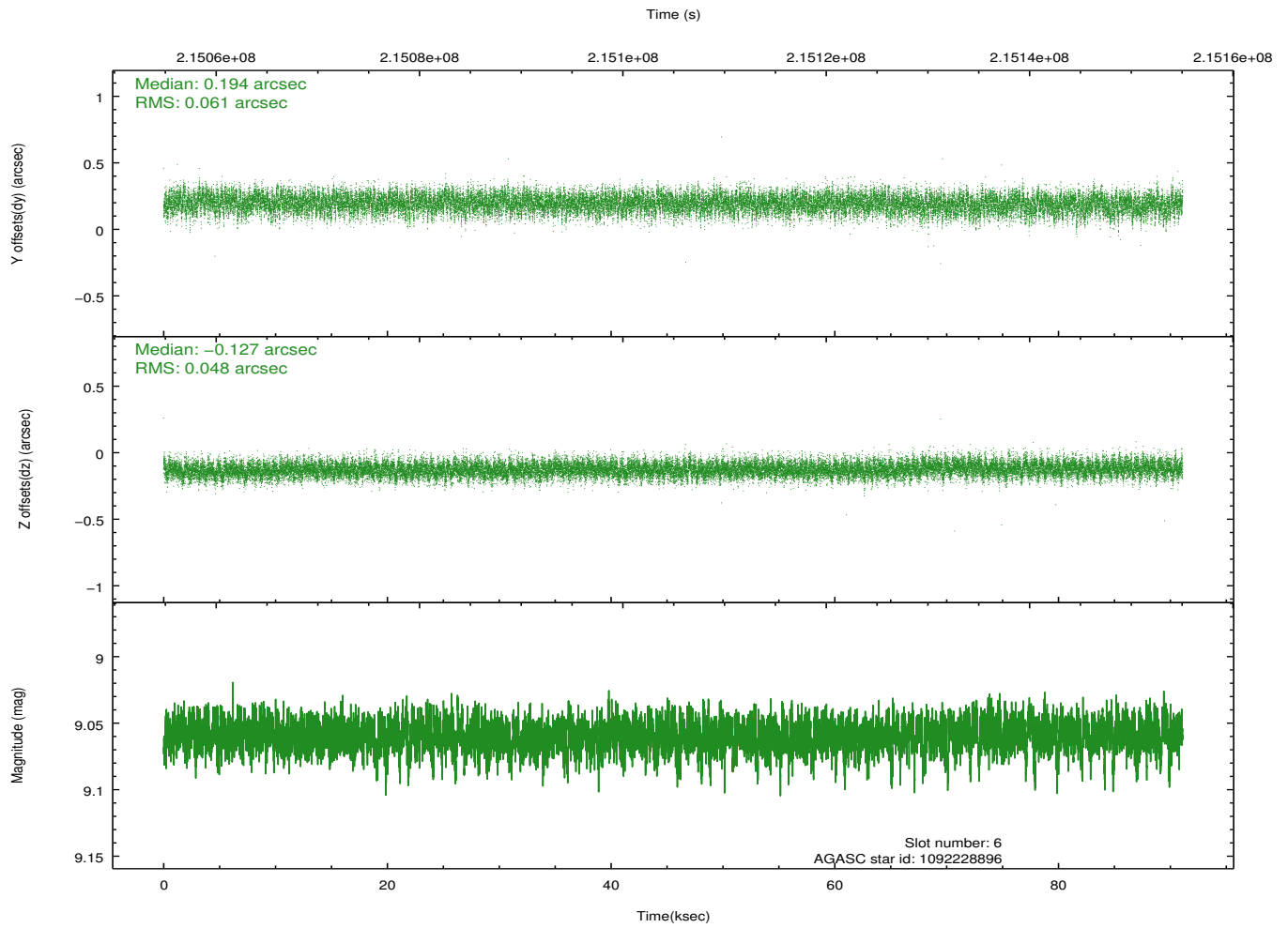
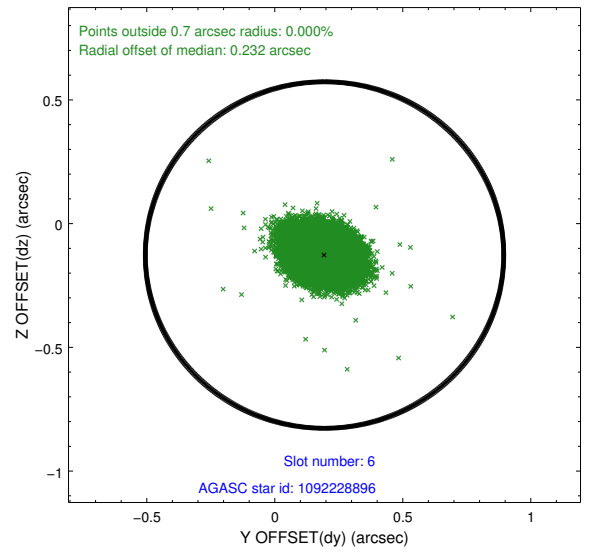
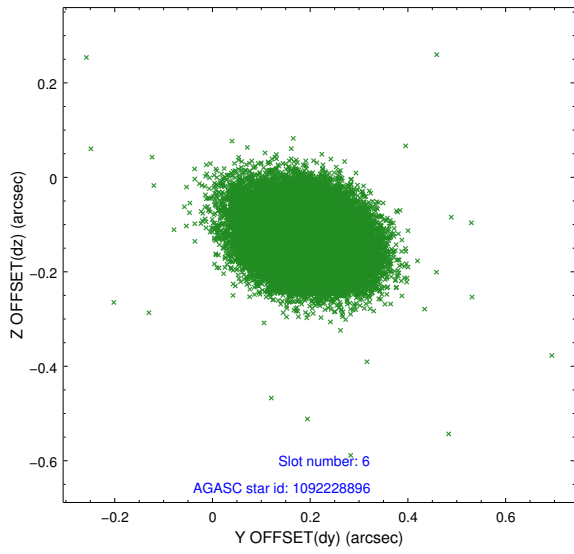
## 2.4.2 Slot 4



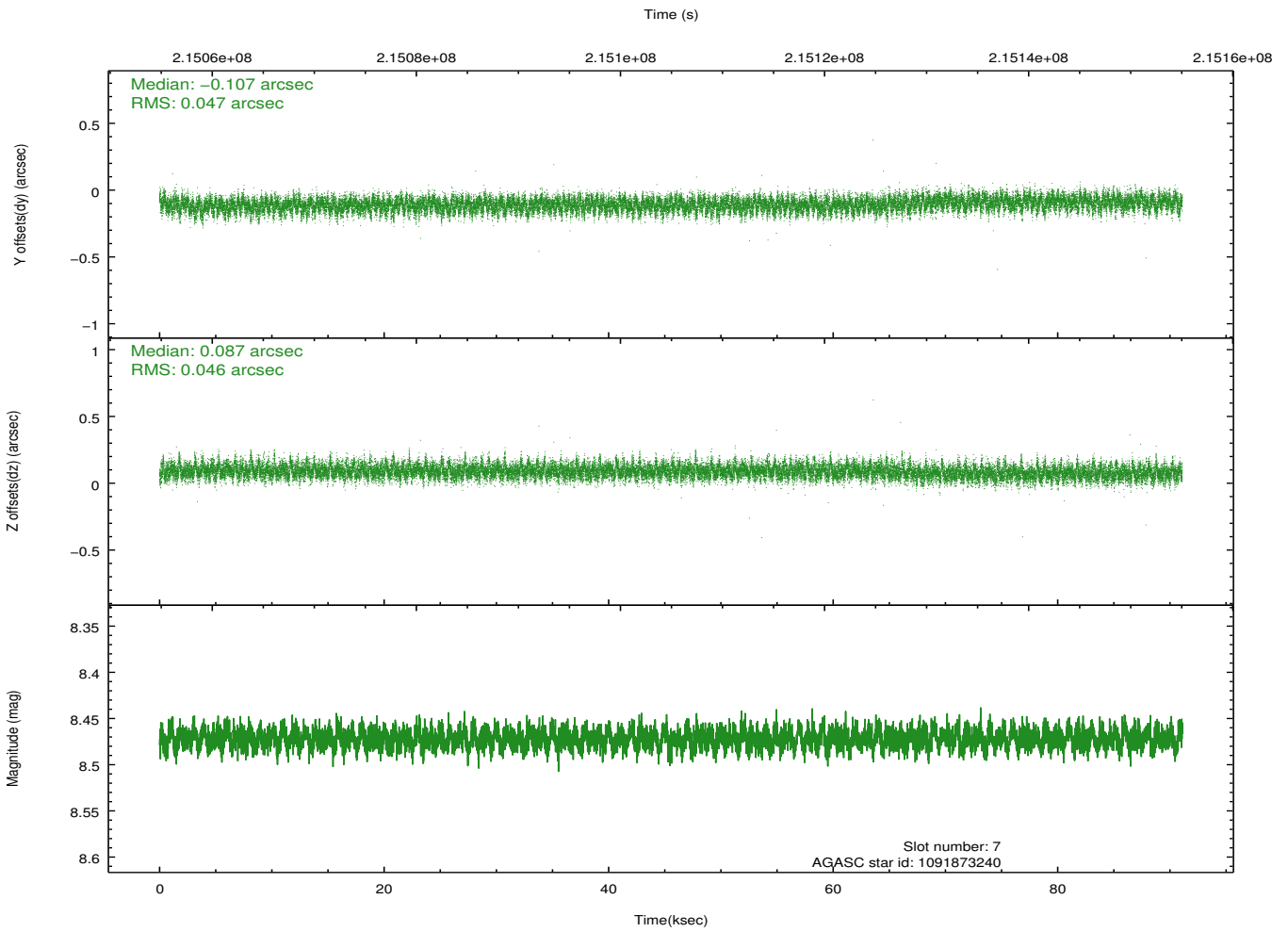
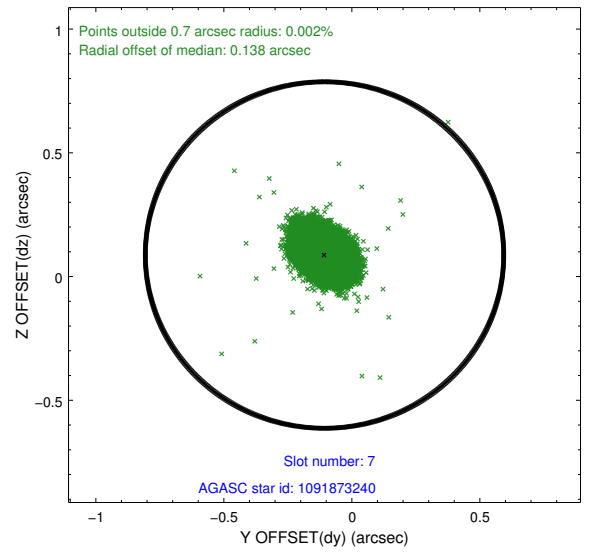
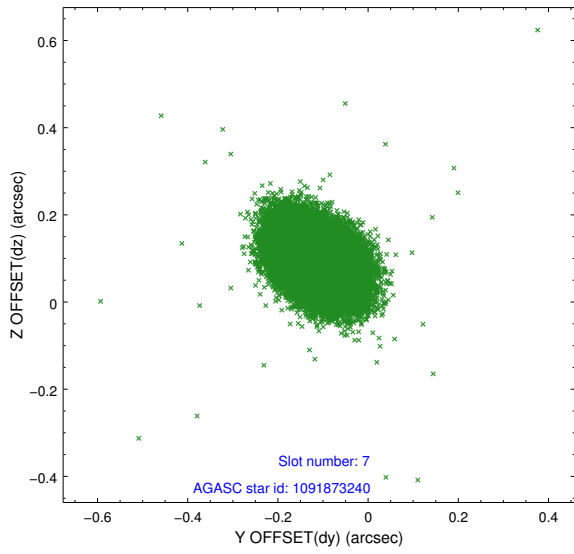
### 2.4.3 Slot 5



### 2.4.4 Slot 6

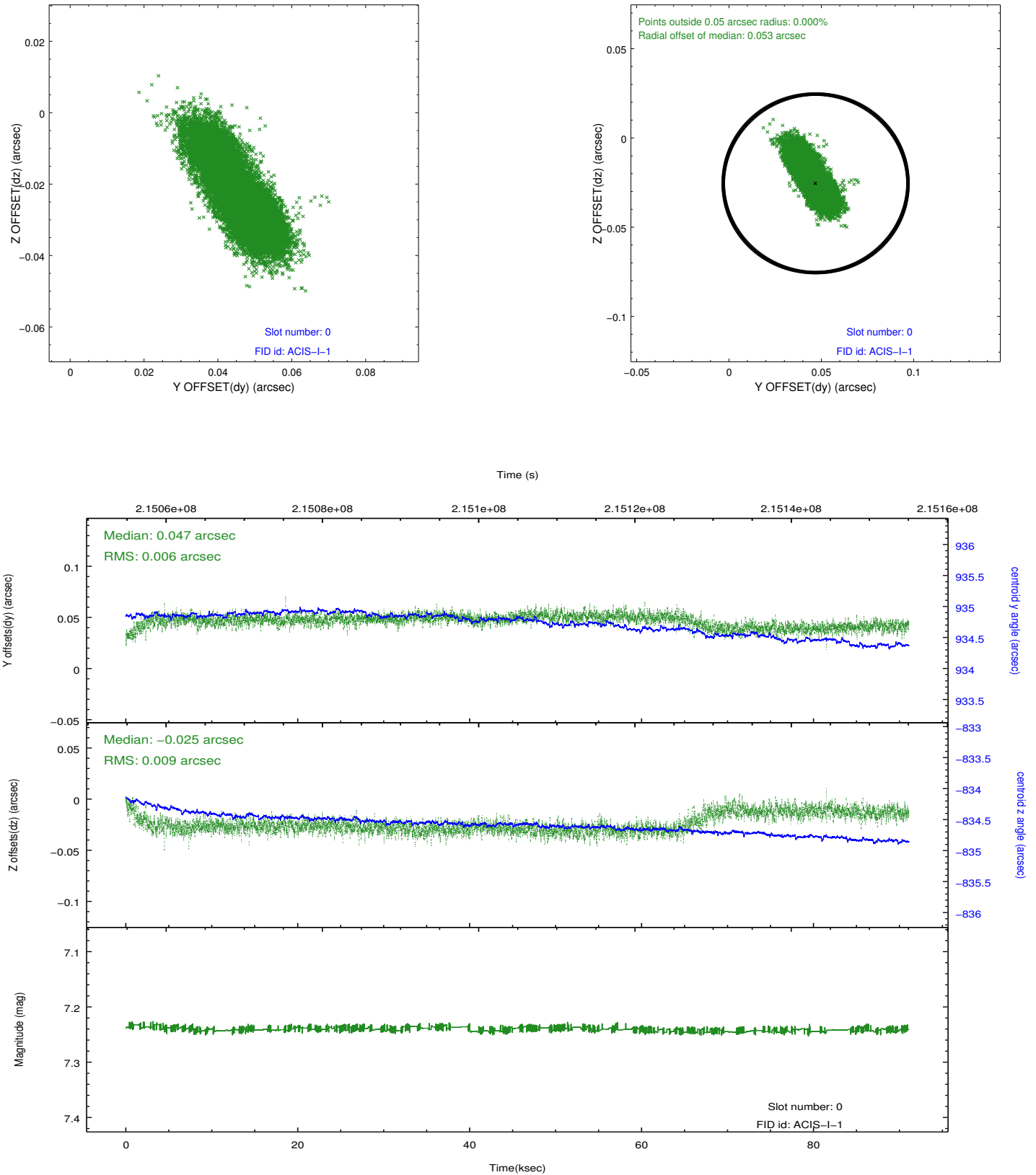


### 2.4.5 Slot 7

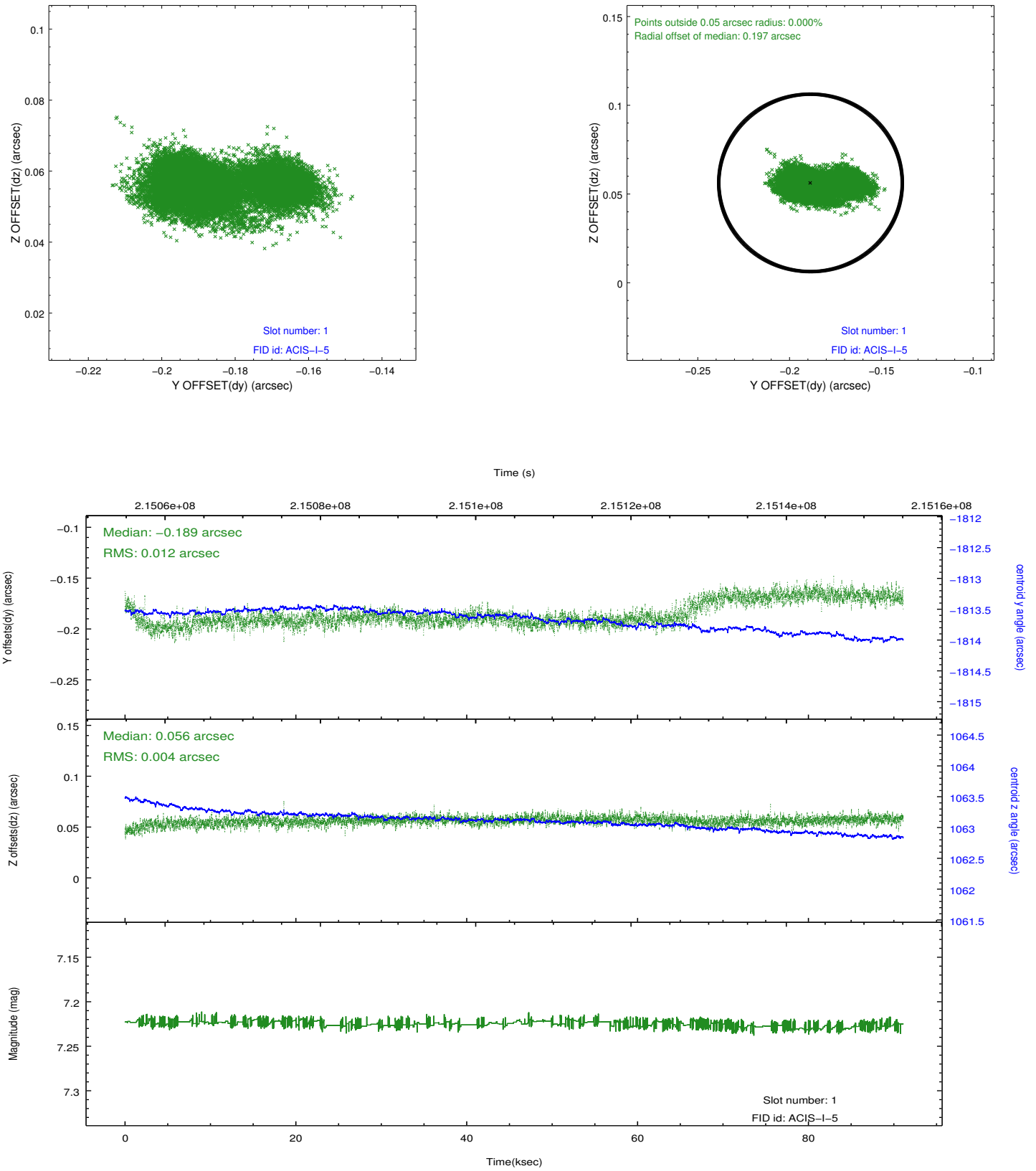


## 2.5 FID Slots

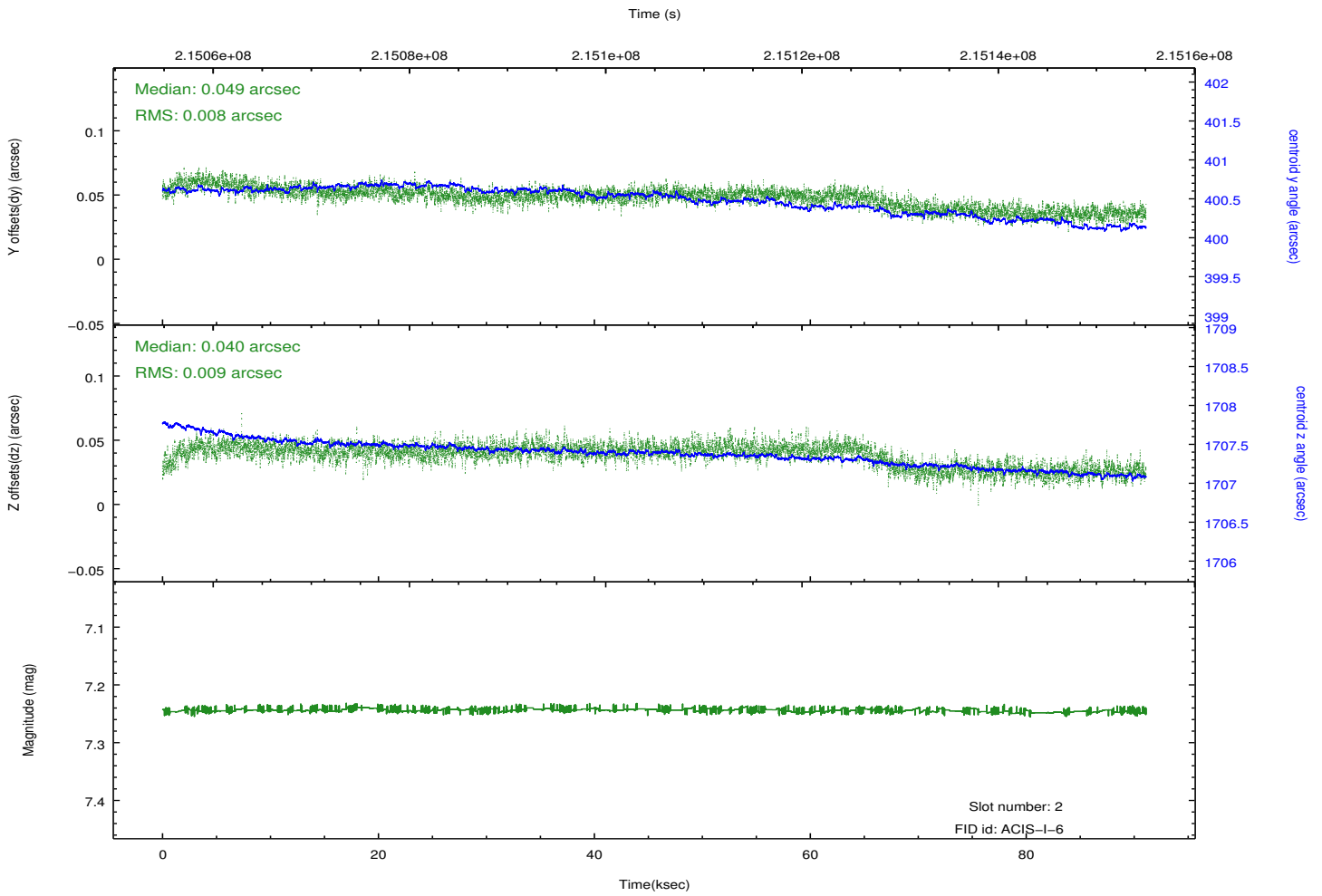
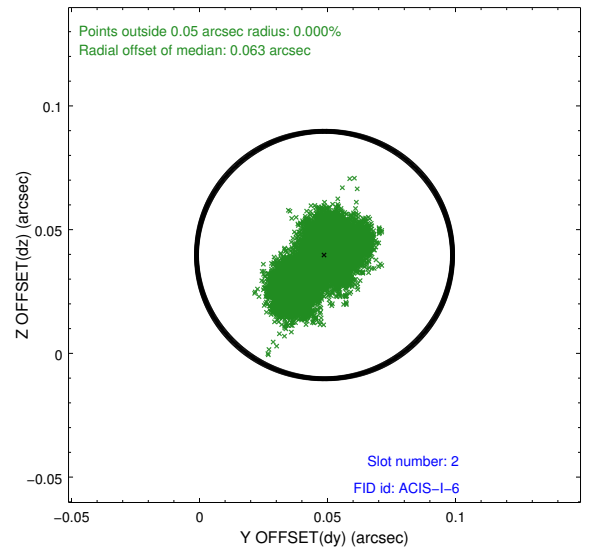
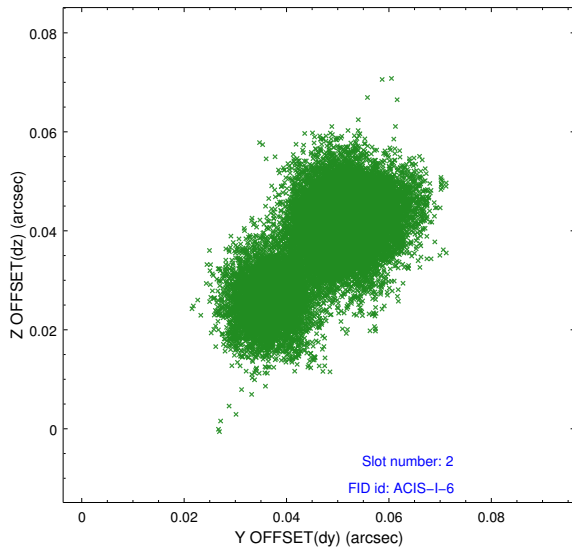
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2013.01.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	89.951

## A.2 Comments