

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4767 - L2 Version 3  
Chandra X-Ray Center

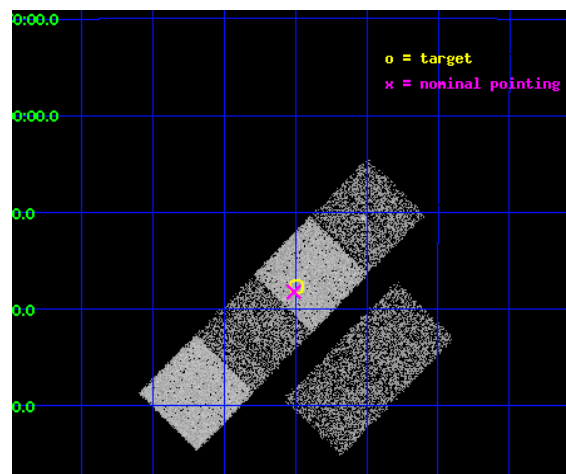
L2 Processing Date : Nov 8 2012

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# 1 Front

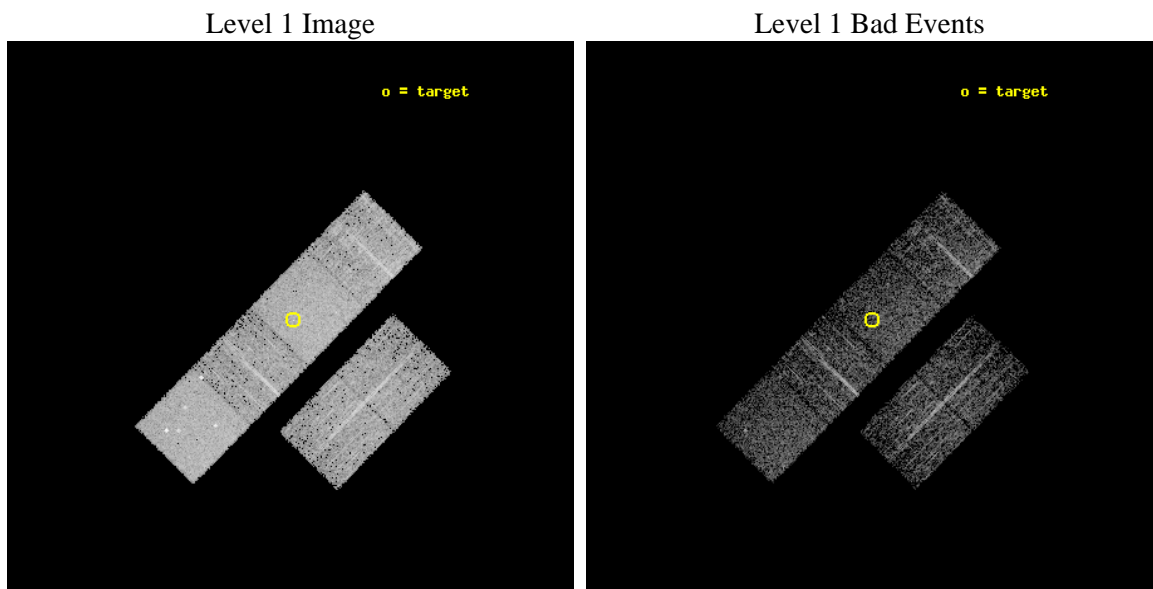
seq_num	700850	Sequence number
obs_id	4767	Observation id
title	A Chandra Survey of Luminous, Radio-Loud Quasars at High Redshift	&#160
observer	Professor Gordon Garmire	Principal investigator
object	PMN J0214-0518	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	33.622083	Observer's specified target RA [deg]
dec_targ	-5.295694	Observer's specified target Dec [deg]
ra_nom	33.627571431822	Nominal RA [deg]
dec_nom	-5.3036265199097	Nominal Dec [deg]
roll_nom	314.3941938213	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4086.399984777	Sum of GTIs [s]
livetime	4034.6555276351	Livetime [s]
ontime2	4086.399984777	Sum of GTIs [s]
ontime3	4086.399984777	Sum of GTIs [s]
ontime5	4086.399984777	Sum of GTIs [s]
ontime6	4086.399984777	Sum of GTIs [s]
ontime7	4086.399984777	Sum of GTIs [s]
ontime8	4086.399984777	Sum of GTIs [s]
l2events	42064	Number of level 2 events



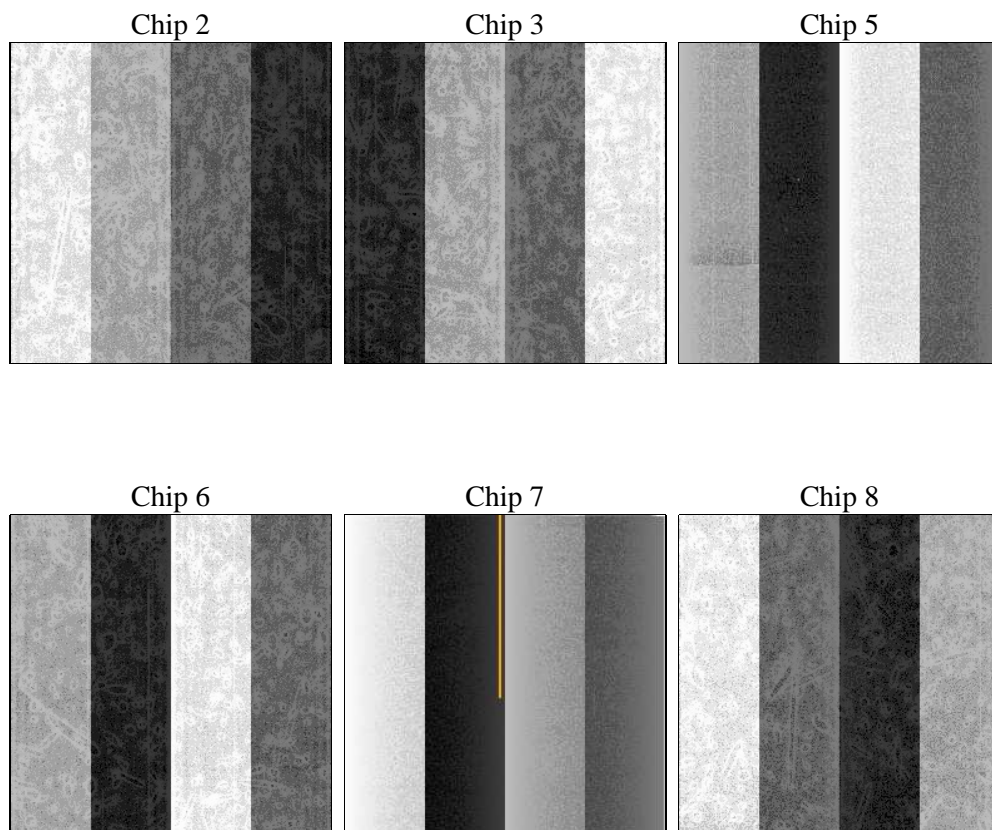
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	3913.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4086.399984777	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	4086.399984777	Sum of GTIs [s]
date	2012-11-08T07:36:22	Date and time of file creation	ontime3	4086.399984777	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4086.399984777	Sum of GTIs [s]
			ontime6	4086.399984777	Sum of GTIs [s]
			ontime7	4086.399984777	Sum of GTIs [s]
			ontime8	4086.399984777	Sum of GTIs [s]
			l1events	161922	Number of level 1 events

### 2.1.4 Events

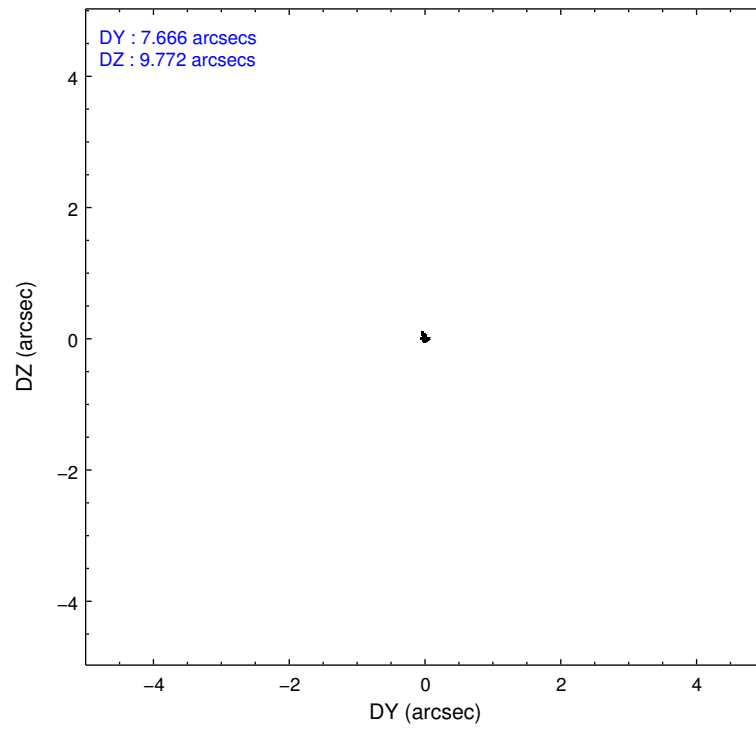
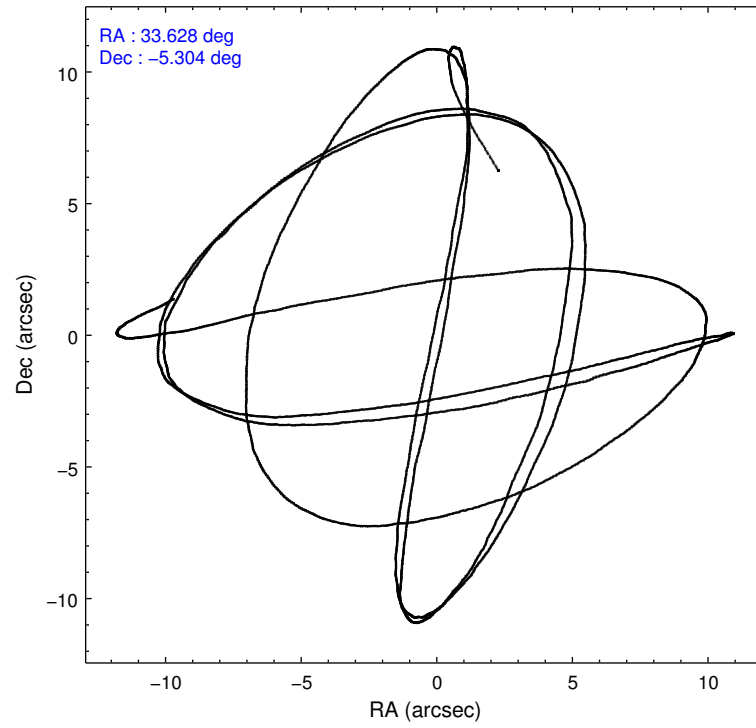
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	22632	20766	35297	23198	31774	28255	grade 0 events	2070	2021	2164	2055	1330	3194
rejected events	19031	17198	18339	19326	18129	20765		9%	9%	6%	8%	4%	11%
rejected %	84%	82%	51%	83%	57%	73%	grade 1 events	26	15	70	11	25	14
								0%	0%	0%	0%	0%	0%
							grade 2 events	662	612	5171	690	2725	1465
								2%	2%	14%	2%	8%	5%
							grade 3 events	260	296	796	324	1182	844
								1%	1%	2%	1%	3%	2%
							grade 4 events	299	292	693	325	1255	770
								1%	1%	1%	1%	3%	2%
							grade 5 events	899	974	2552	1009	2806	1257
								3%	4%	7%	4%	8%	4%
							grade 6 events	451	477	8836	621	7756	1598
								1%	2%	25%	2%	24%	5%
							grade 7 events	17965	16079	15015	18163	14695	19113
								79%	77%	42%	78%	46%	67%

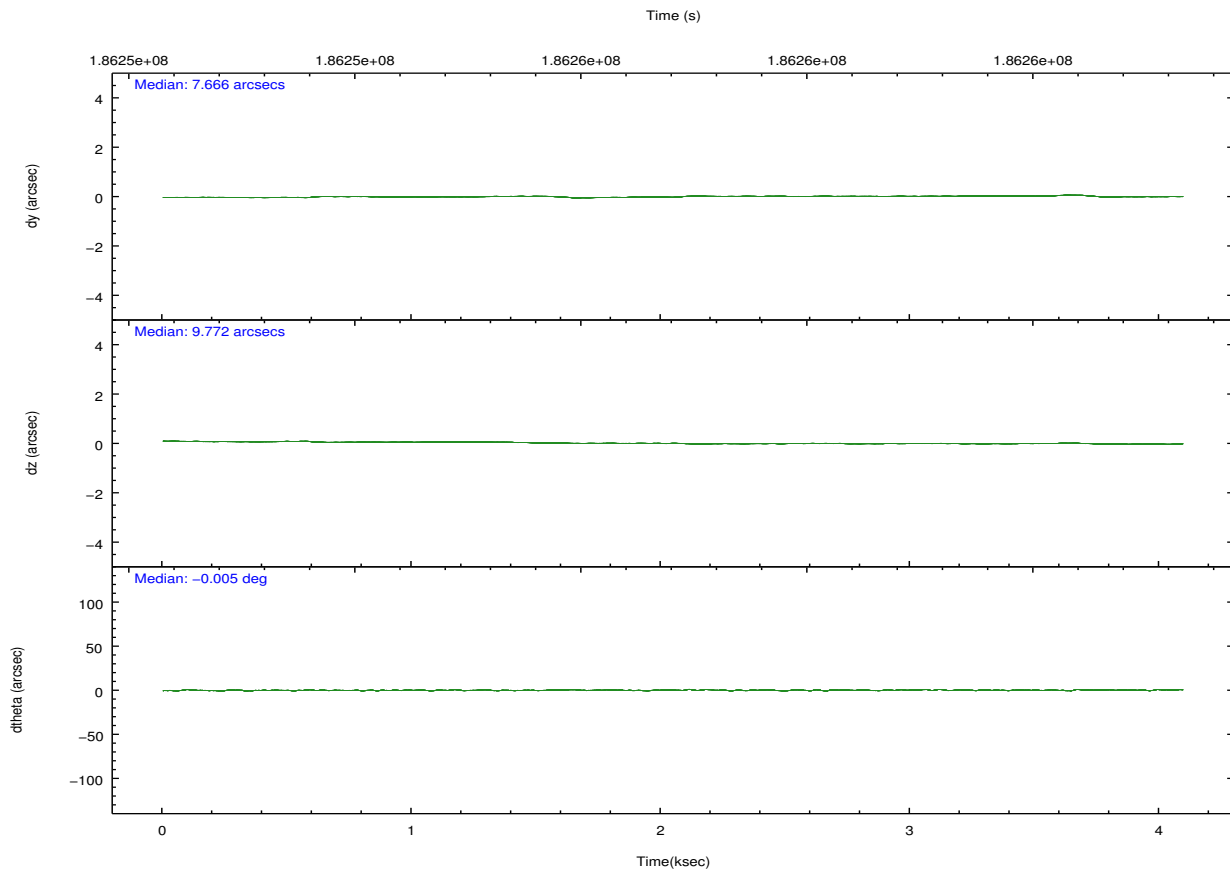
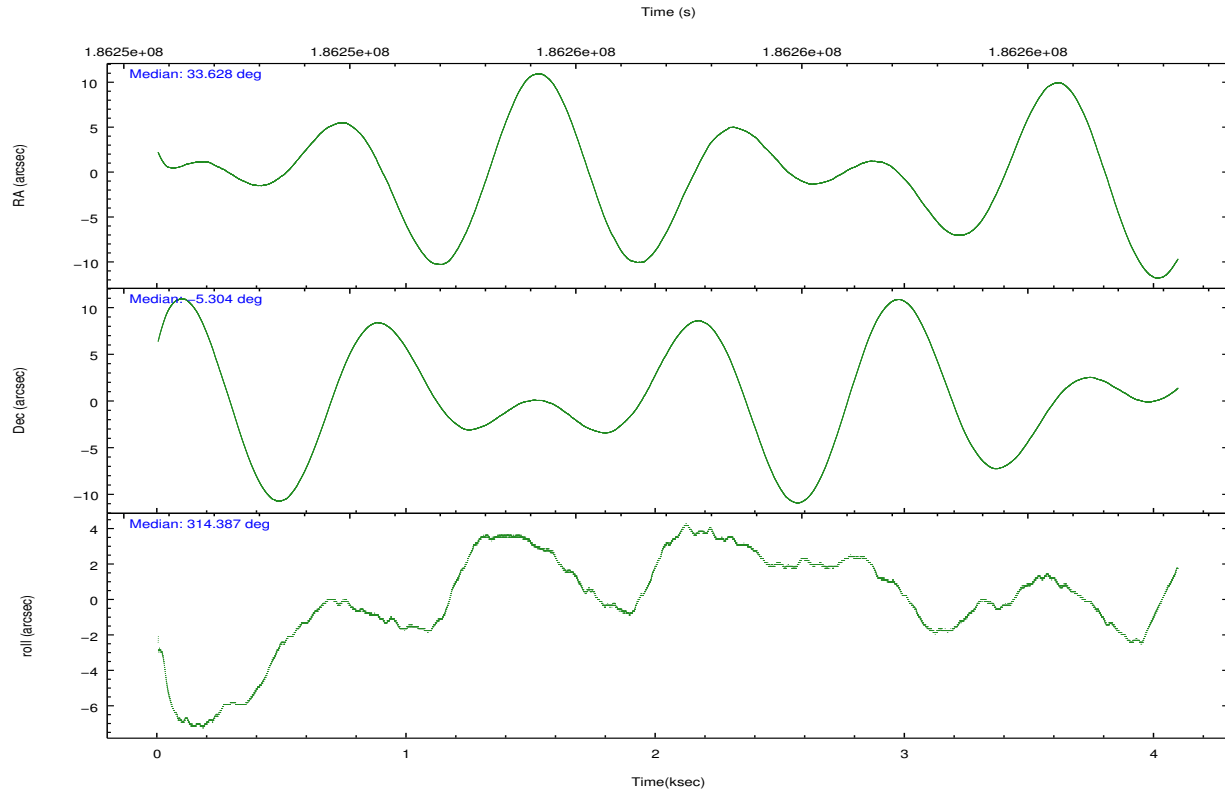


## 2.2 Compared Parameters

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	33.601118	33.62757143182195	Subarray requested	NONE	NONE
[deg] Pointing Dec	-5.296719	-5.303626519909736	Alternating exposures requested	N	N
[deg] Pointing Roll	314.235113	314.3941938212992	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	186253545.184000	186252385.45303			
Observation start date	2003-11-26T17:04:41	2003-11-26T16:46:25			
[s] Observation end time (MET)	186257458.184000	186258068.56577			
Observation end date	2003-11-26T18:09:54	2003-11-26T18:21:08			
Read mode	TIMED	TIMED			

## 2.3 Aspect



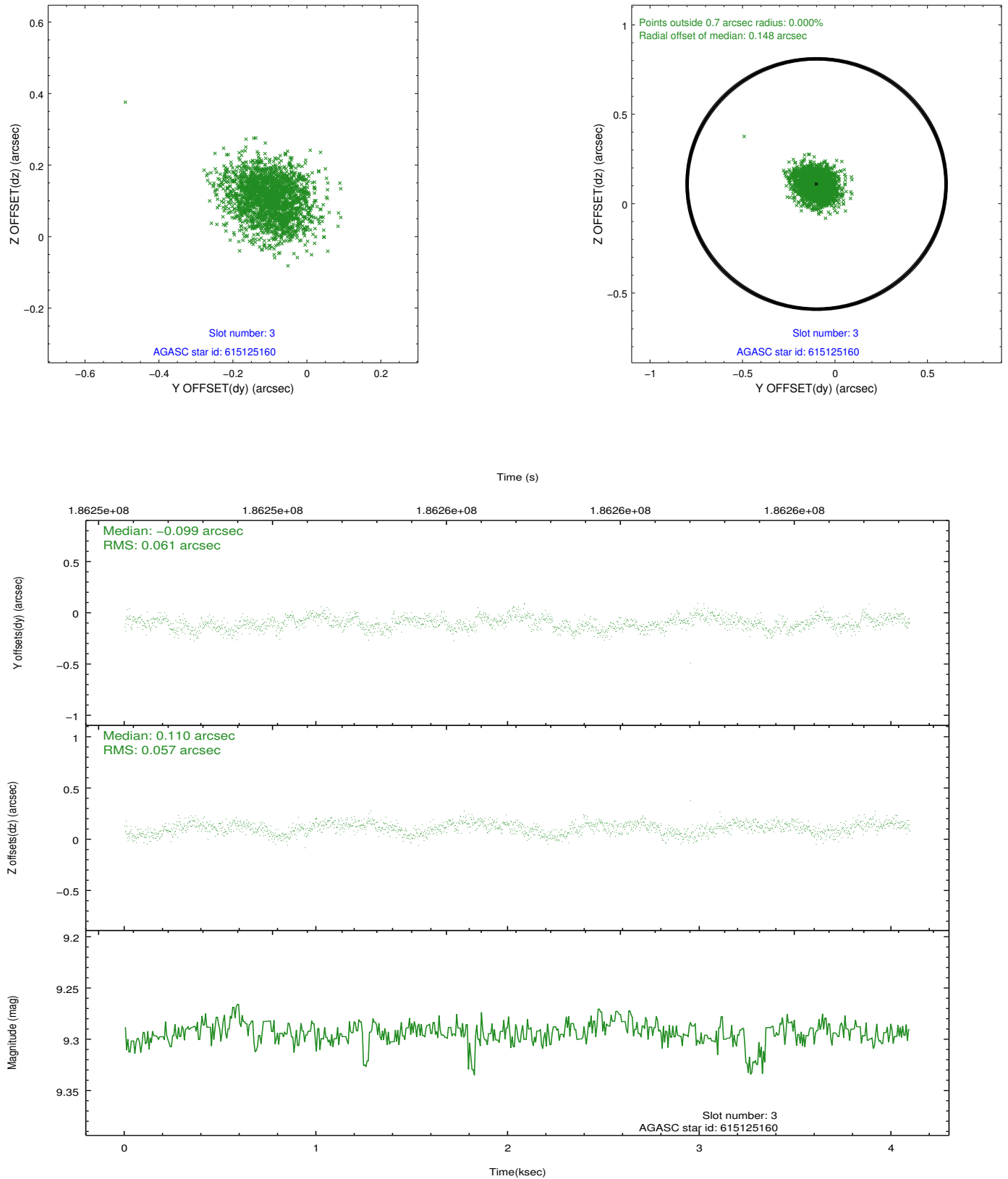


### Slot Statistics

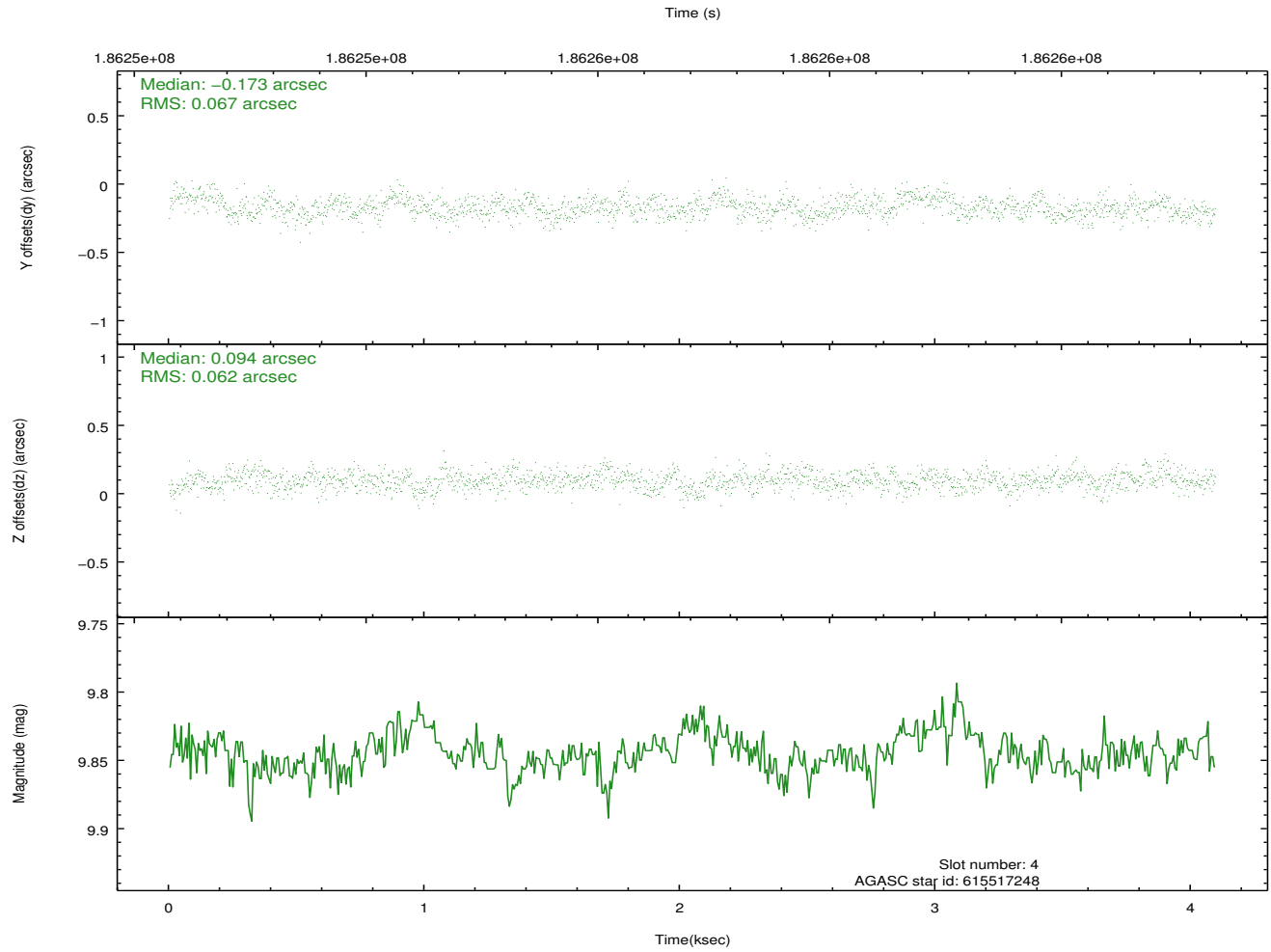
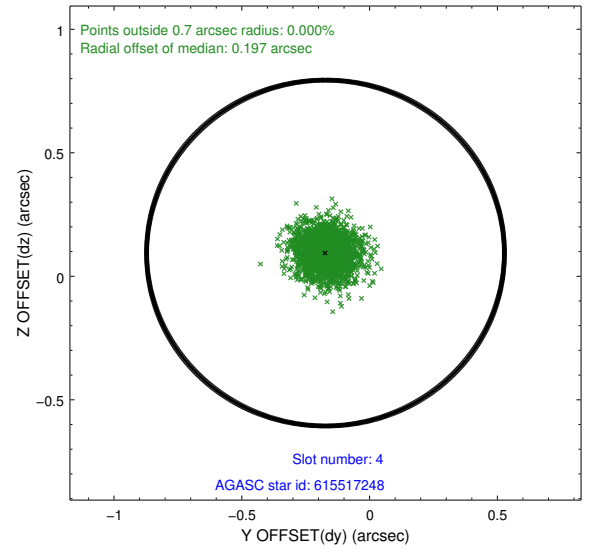
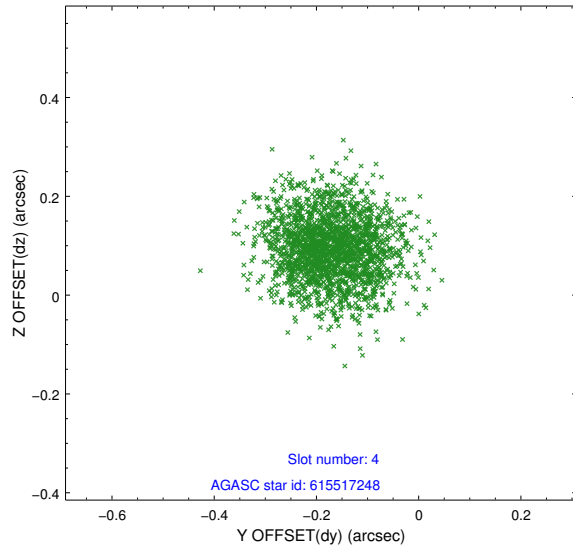
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	999	-0.033	-0.019	0.006	0.010	0.000000	0.000000	-760.43	-1731.01
1	FID	ACIS-S-4	7.20	999	0.074	0.021	0.006	0.010	0.000000	0.000000	2152.23	175.99
2	FID	ACIS-S-5	7.23	999	-0.072	0.007	0.007	0.012	0.000000	0.000000	-1811.39	171.31
3	GUIDE	615125160	9.29	1997	-0.099	0.110	0.088	0.142	33.500170	-4.866158	-1362.92	821.99
4	GUIDE	615517248	9.85	1996	-0.173	0.094	0.098	0.157	32.944804	-5.095962	-2159.05	-1182.60
5	GUIDE	615518368	8.11	1998	0.025	-0.219	0.079	0.121	33.591608	-5.270150	-92.93	41.51
6	GUIDE	615518536	9.83	1998	-0.113	0.007	0.151	0.231	33.076289	-5.385298	-1082.76	-1570.67
7	GUIDE	615518928	8.61	1996	0.364	0.008	0.087	0.140	33.717262	-6.105948	2377.84	-1734.76

## 2.4 Star Slots

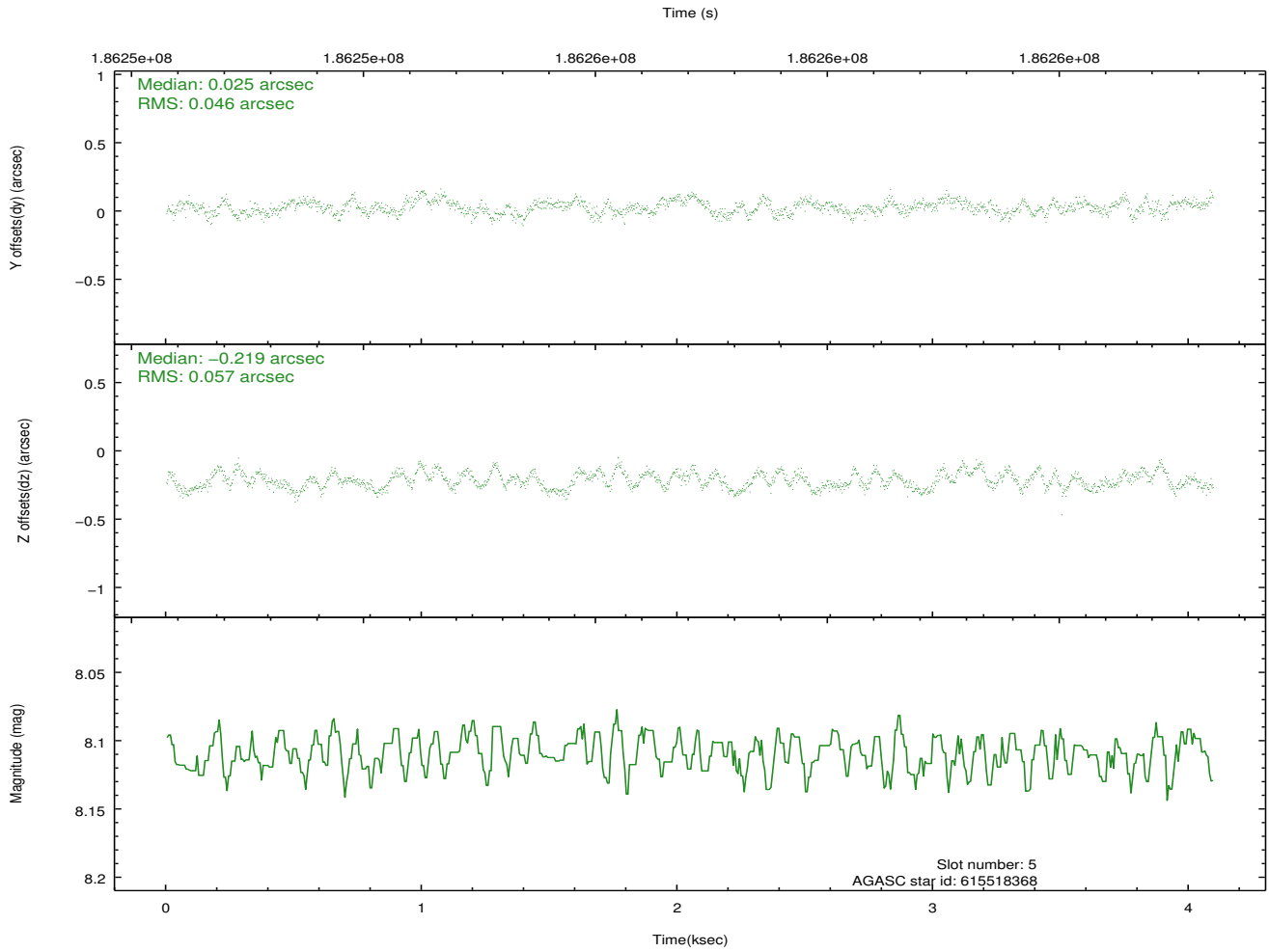
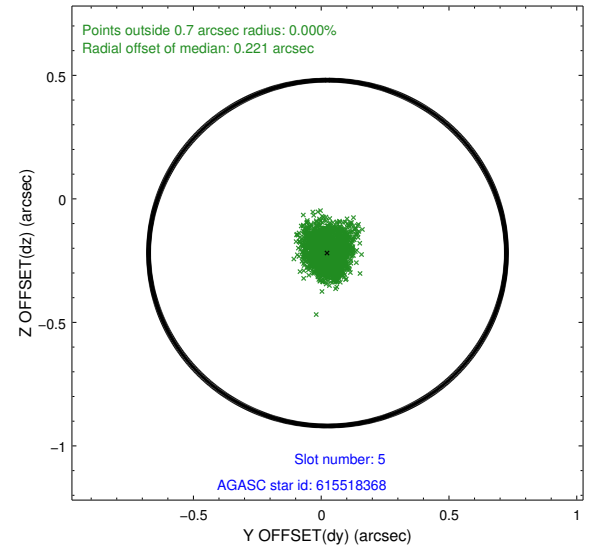
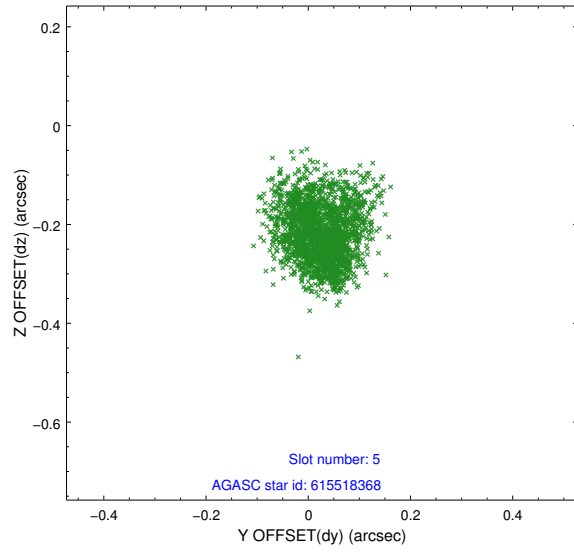
### 2.4.1 Slot 3



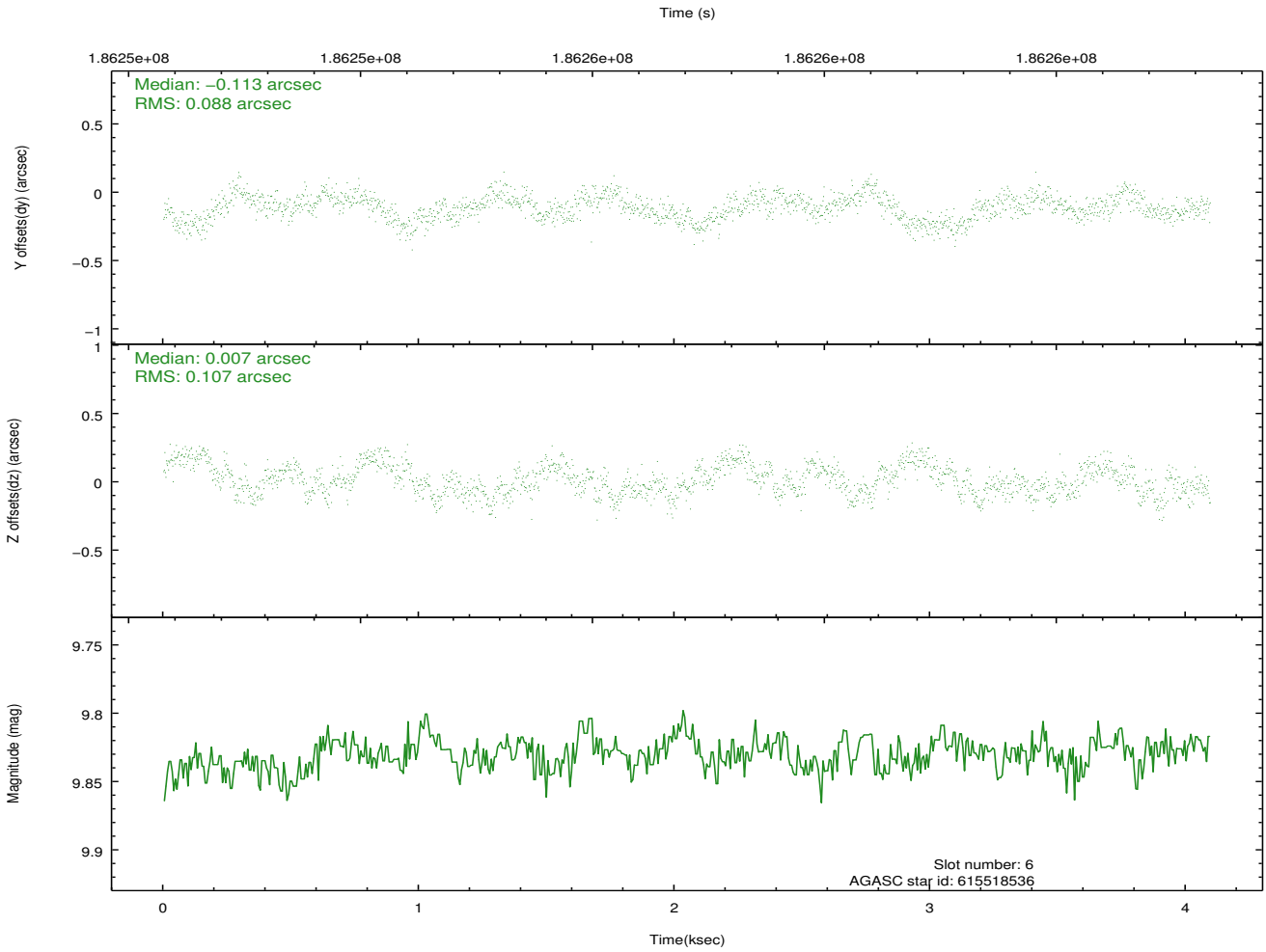
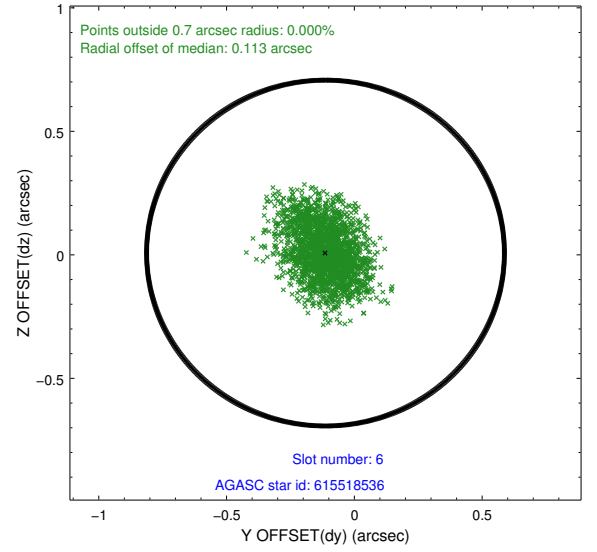
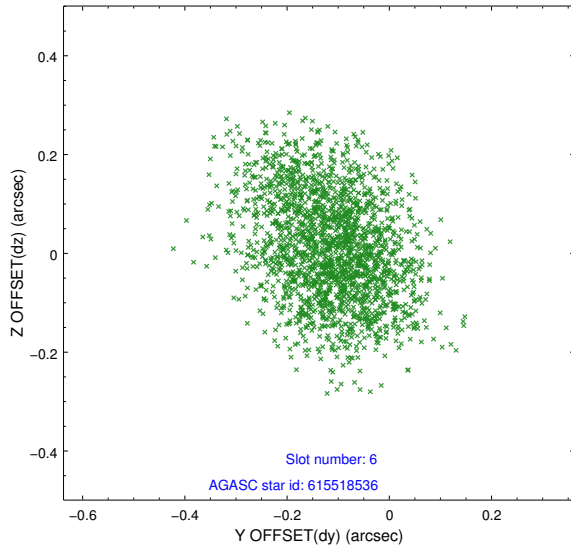
## 2.4.2 Slot 4



### 2.4.3 Slot 5

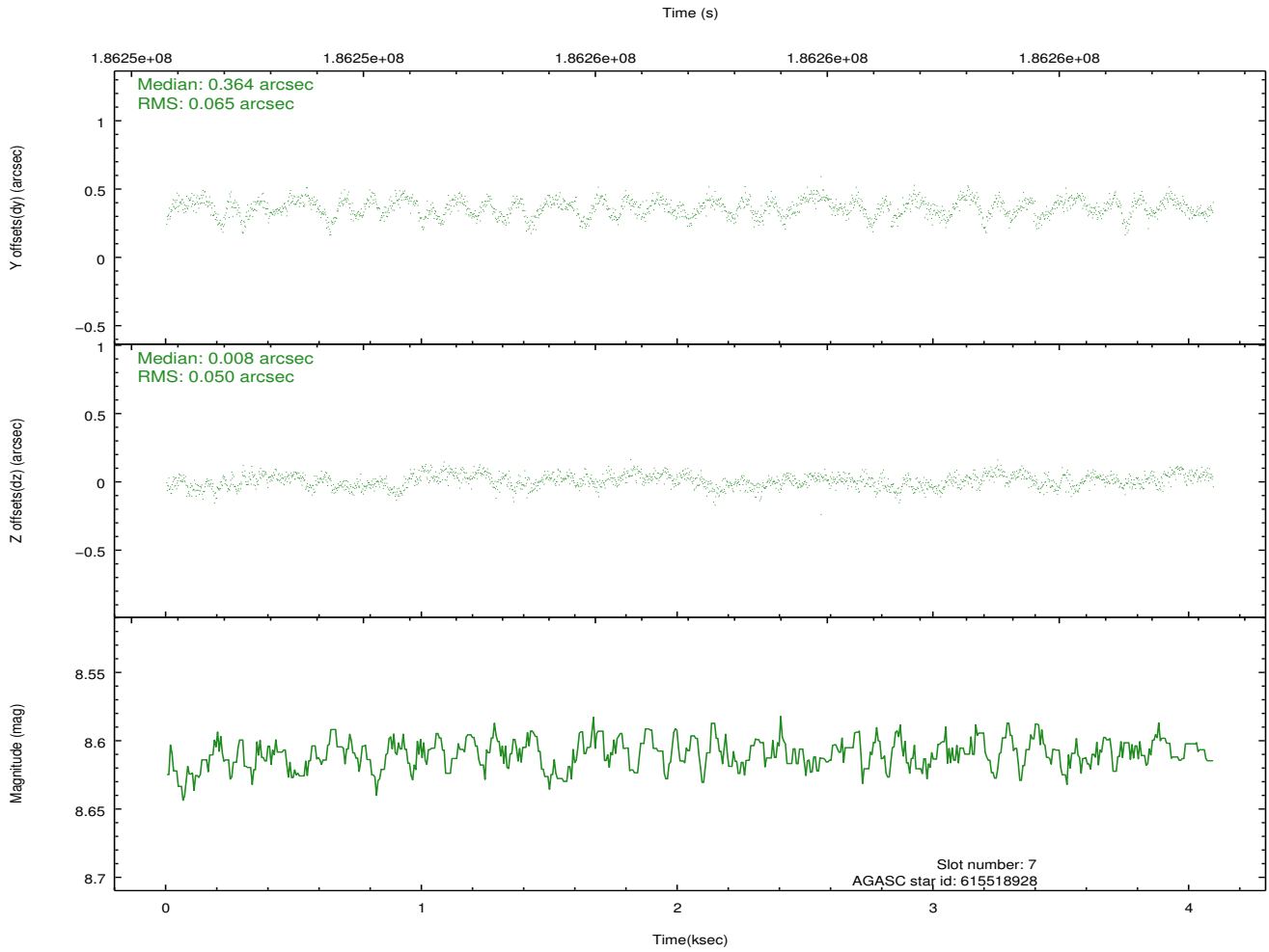
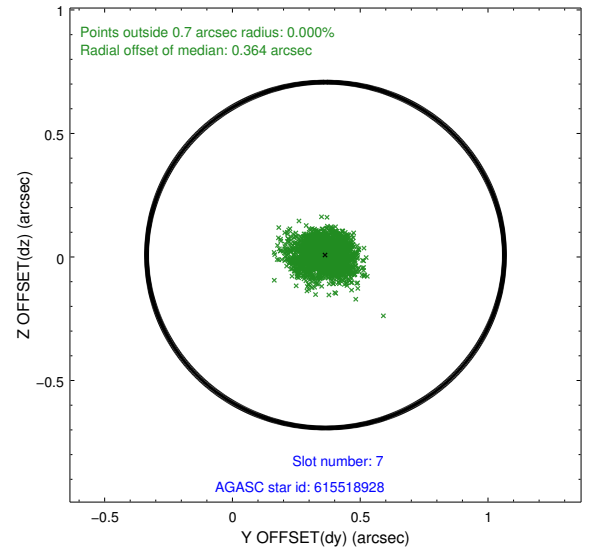
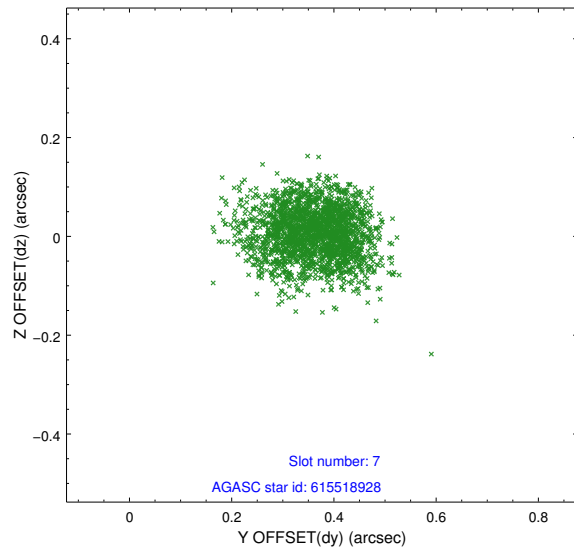


## 2.4.4 Slot 6



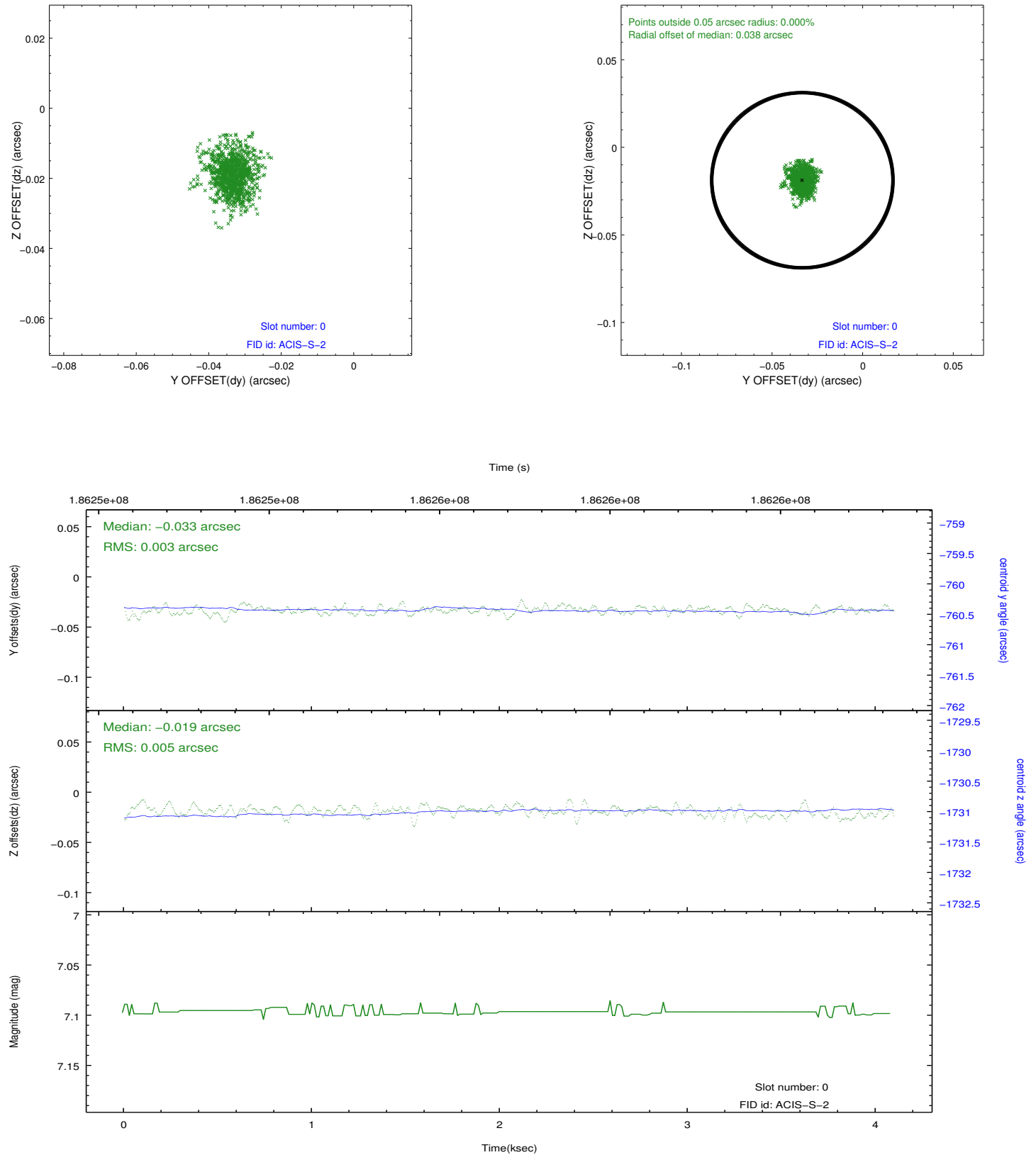


## 2.4.5 Slot 7

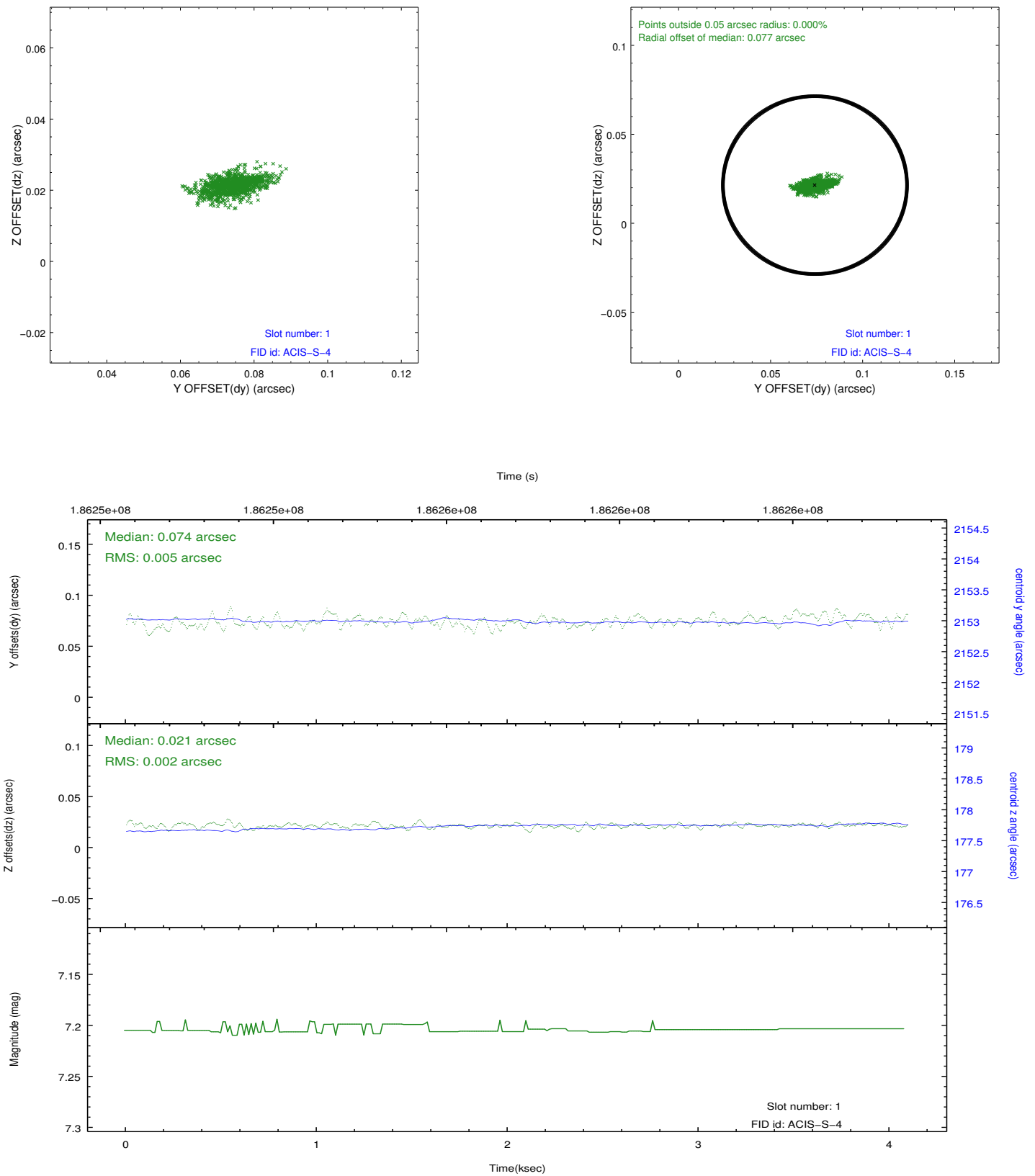


## 2.5 FID Slots

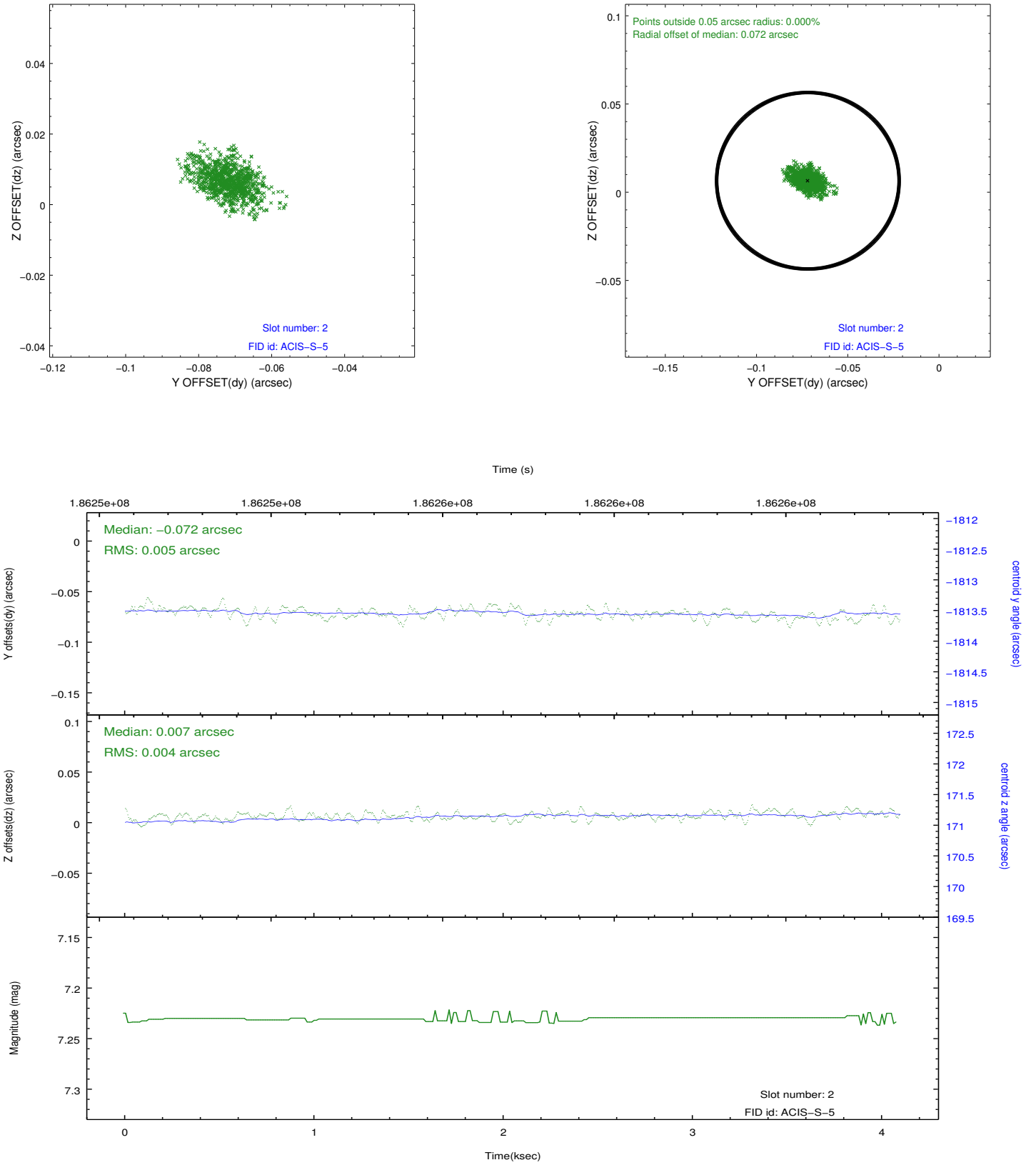
### 2.5.1 Slot 0



## 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)	2012.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.086

### A.2 Comments