

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 6817 - L2 Version 2  
Chandra X-Ray Center

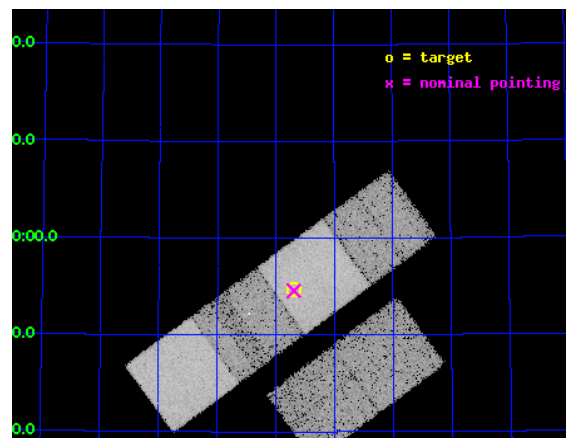
L2 Processing Date : Apr 7 2012

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# 1 Front

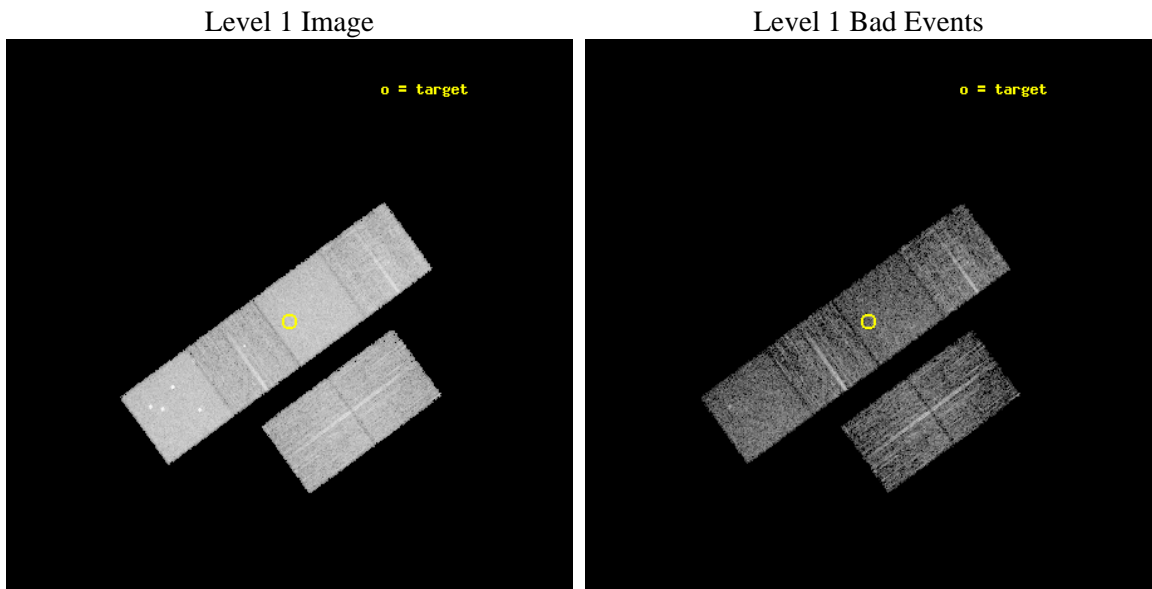
seq_num	701235	Sequence number
obs_id	6817	Observation id
title	Chandra ACIS Snapshot Observations of the Most Luminous Quasars from the Sloan Digital Sky Survey	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1236+6554	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	189.172917	Observer's specified target RA [deg]
dec_targ	65.911667	Observer's specified target Dec [deg]
ra_nom	189.17304606752	Nominal RA [deg]
dec_nom	65.90963650321	Nominal Dec [deg]
roll_nom	323.69773996861	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4057.5999849439	Sum of GTIs [s]
livetime	4006.2202107411	Livetime [s]
ontime2	4054.3590146899	Sum of GTIs [s]
ontime3	4057.5999849439	Sum of GTIs [s]
ontime5	4057.5999849439	Sum of GTIs [s]
ontime6	4057.5999849439	Sum of GTIs [s]
ontime7	4057.5999849439	Sum of GTIs [s]
ontime8	4057.5999849439	Sum of GTIs [s]
l2events	125108	Number of level 2 events



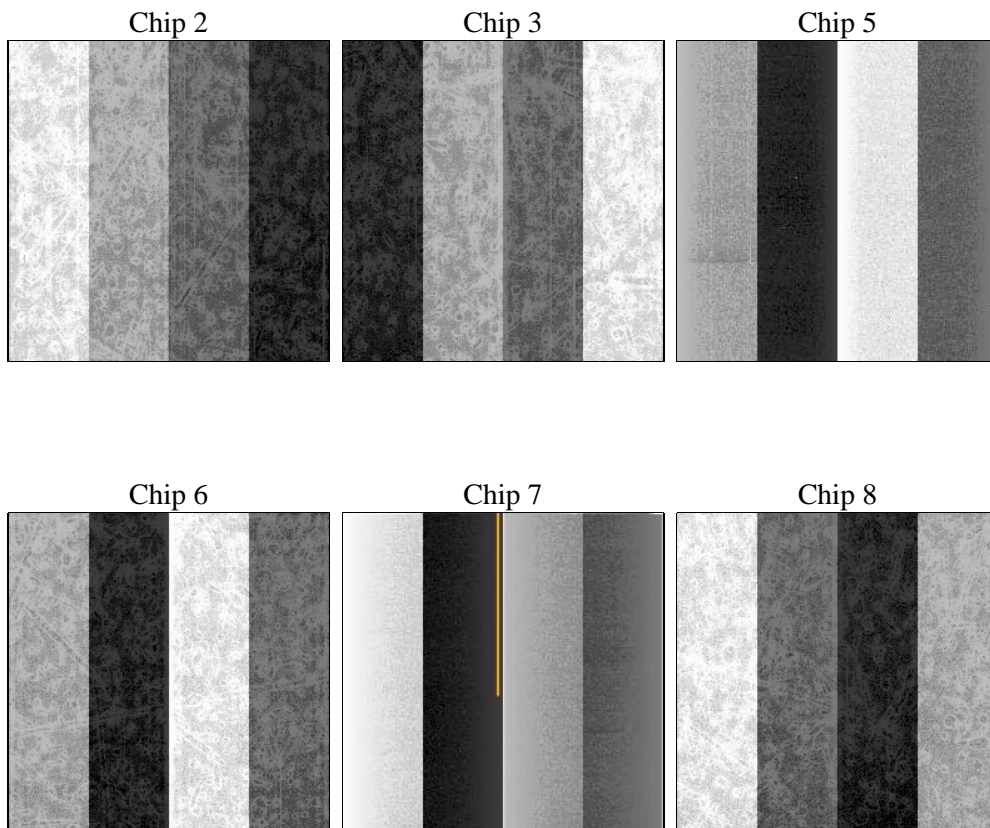
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3939.020000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	4057.5999849439	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	4054.3590146899	Sum of GTIs [s]
date	2012-04-08T01:15:18	Date and time of file creation	ontime3	4057.5999849439	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4057.5999849439	Sum of GTIs [s]
			ontime6	4057.5999849439	Sum of GTIs [s]
			ontime7	4057.5999849439	Sum of GTIs [s]
			ontime8	4057.5999849439	Sum of GTIs [s]
			l1events	366344	Number of level 1 events

### 2.1.4 Events

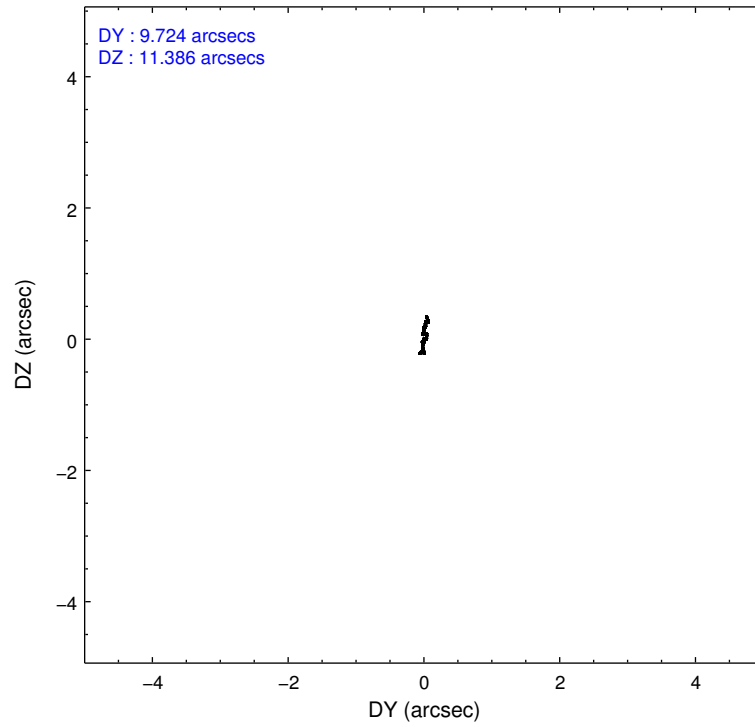
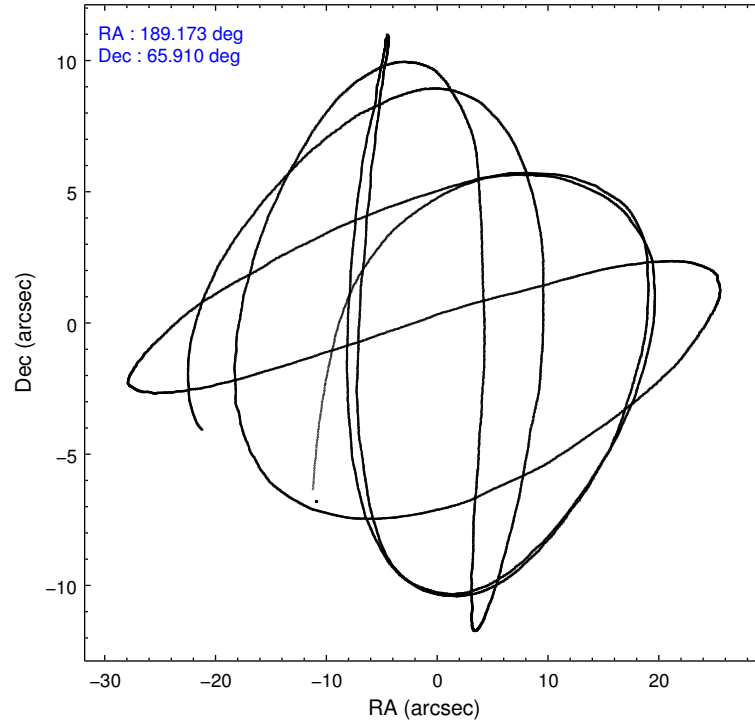
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	51530	46903	79590	51217	73829	63275	grade 0 events	8799	8605	5651	9149	3621	11351
rejected events	38664	34086	39066	37017	36209	42763		17%	18%	7%	17%	4%	17%
rejected %	75%	72%	49%	72%	49%	67%	grade 1 events	61	64	108	53	60	71
								0%	0%	0%	0%	0%	0%
							grade 2 events	2010	2028	12890	2597	7317	3906
								3%	4%	16%	5%	9%	6%
							grade 3 events	709	732	1797	778	3126	1469
								1%	1%	2%	1%	4%	2%
							grade 4 events	715	705	1711	743	3016	1509
								1%	1%	2%	1%	4%	2%
							grade 5 events	1591	1902	4623	1868	5557	2546
								3%	4%	5%	3%	7%	4%
							grade 6 events	1207	1241	21739	1475	23128	3471
								2%	2%	27%	2%	31%	5%
							grade 7 events	36438	31626	31071	34554	28004	38952
								70%	67%	39%	67%	37%	61%

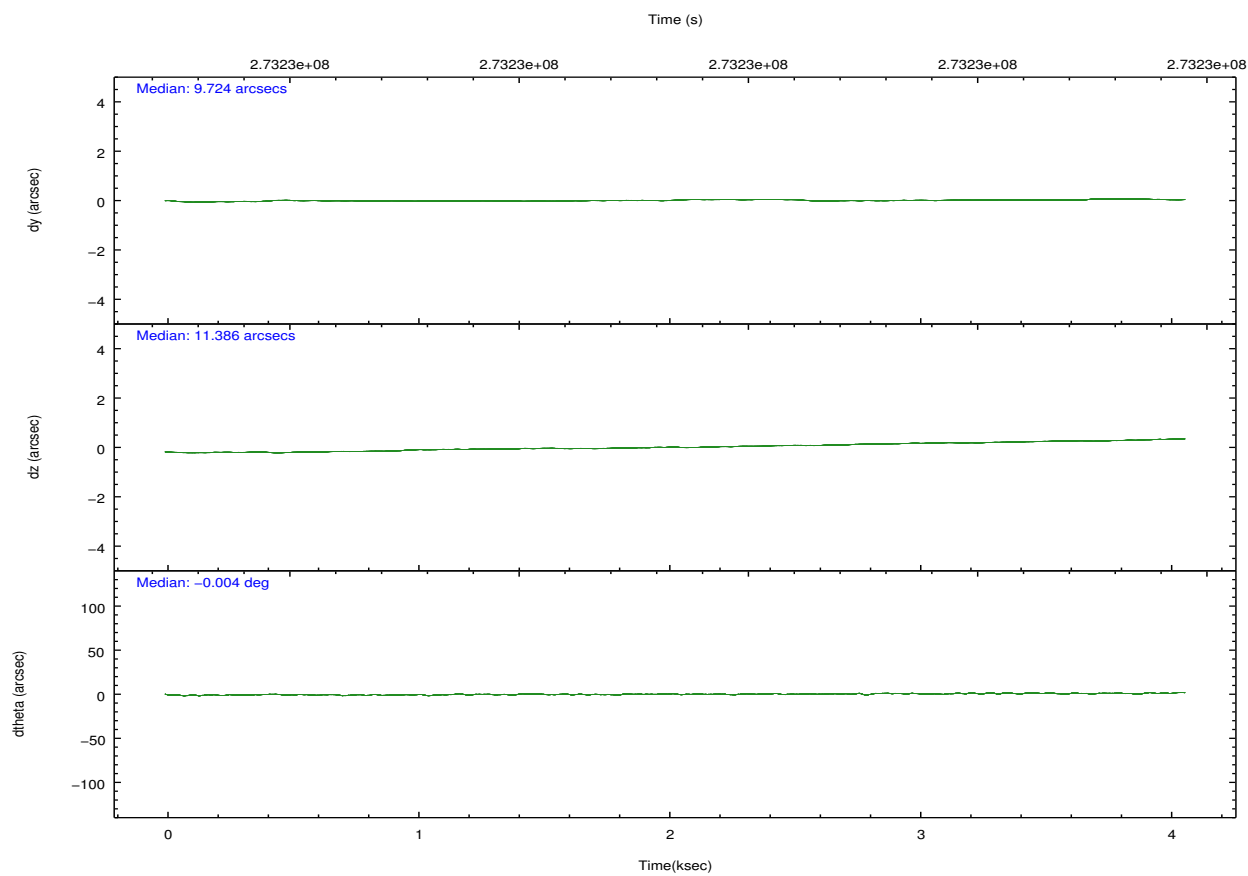
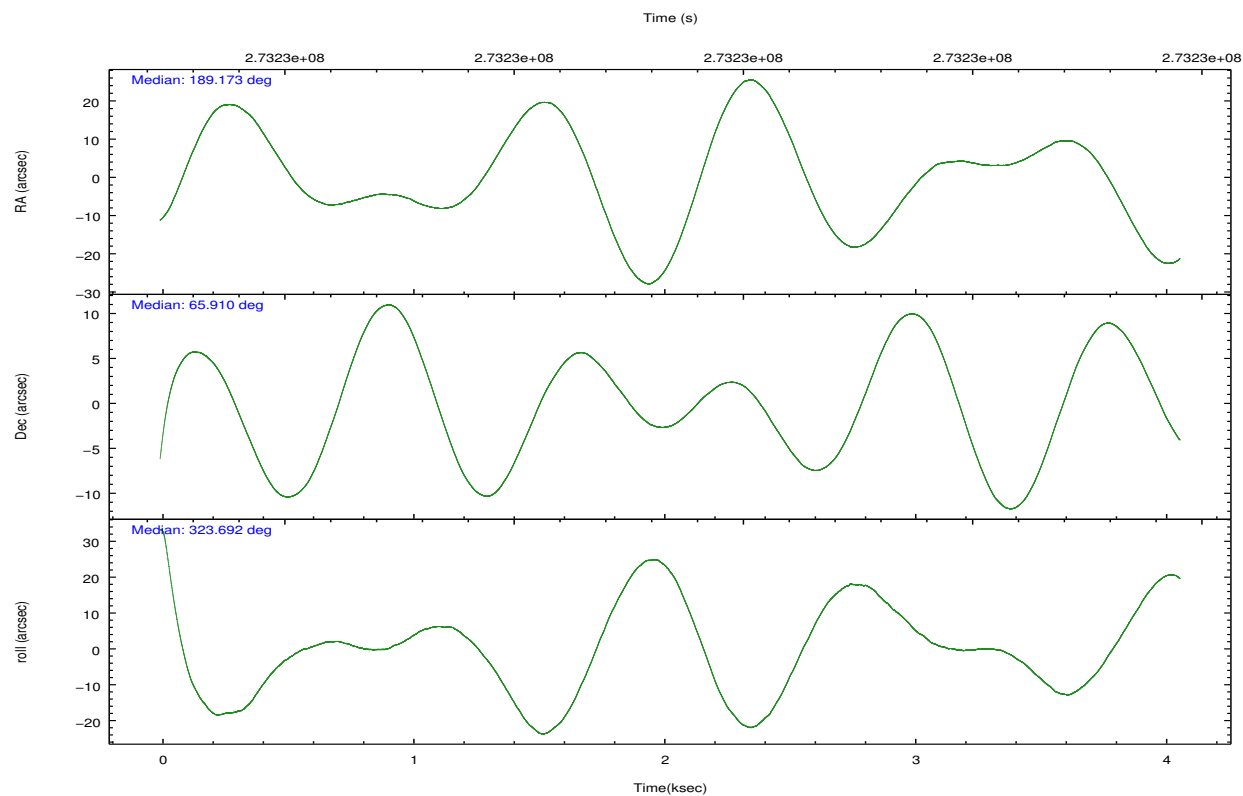


## 2.2 Compared Parameters

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	189.106525	189.1730460675169	Subarray requested	NONE	NONE
[deg] Pointing Dec	65.912191	65.90963650320992	Alternating exposures requested	N	N
[deg] Pointing Roll	323.601768	323.6977399686101	[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)	273227761.184000	273226477.10949			
Observation start date	2006-08-29T08:34:56	2006-08-29T08:14:37			
[s] Observation end time (MET)	273231700.184000	273231923.44724			
Observation end date	2006-08-29T09:40:35	2006-08-29T09:45:23			
Read mode	TIMED	TIMED			

## 2.3 Aspect



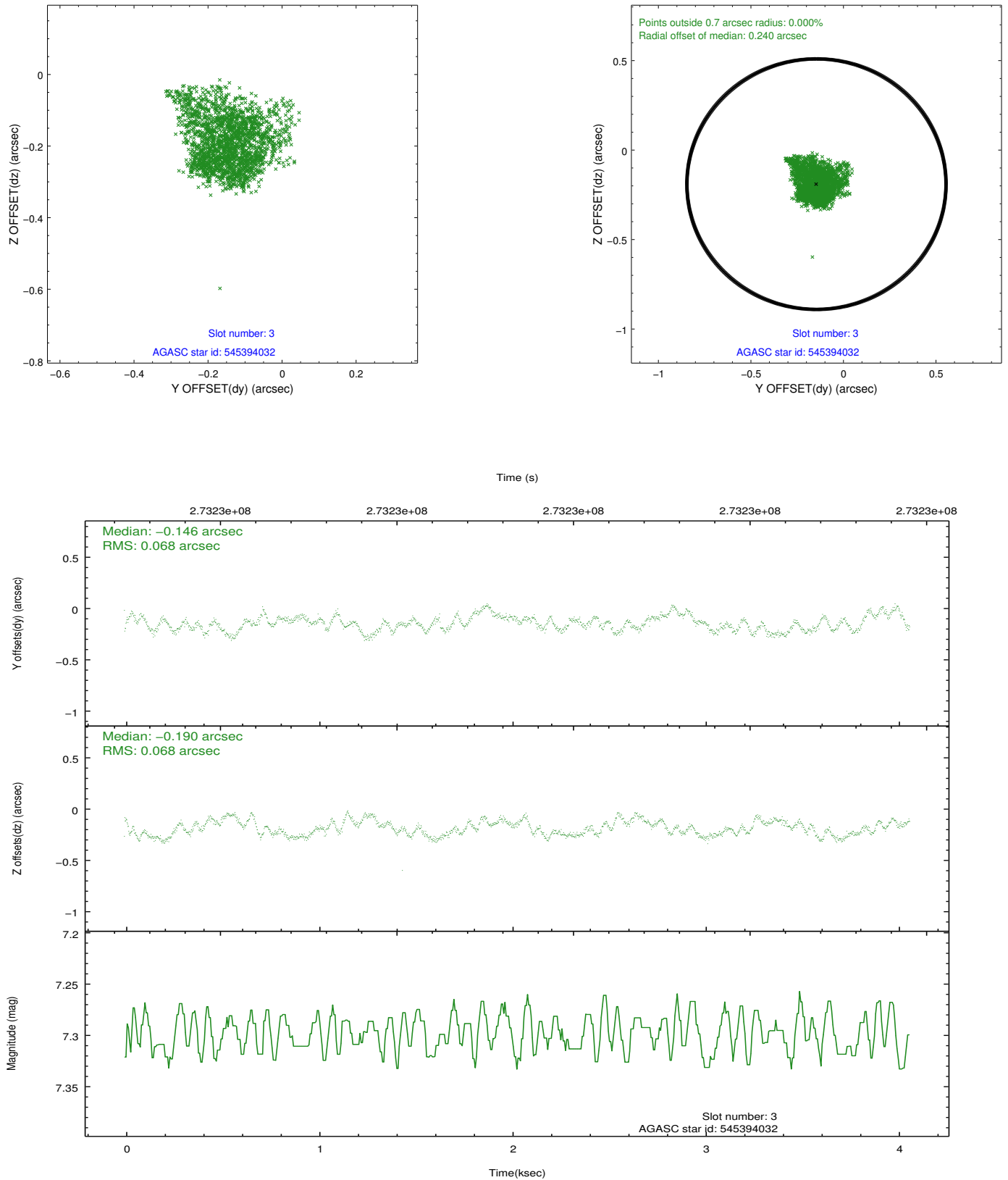


### Slot Statistics

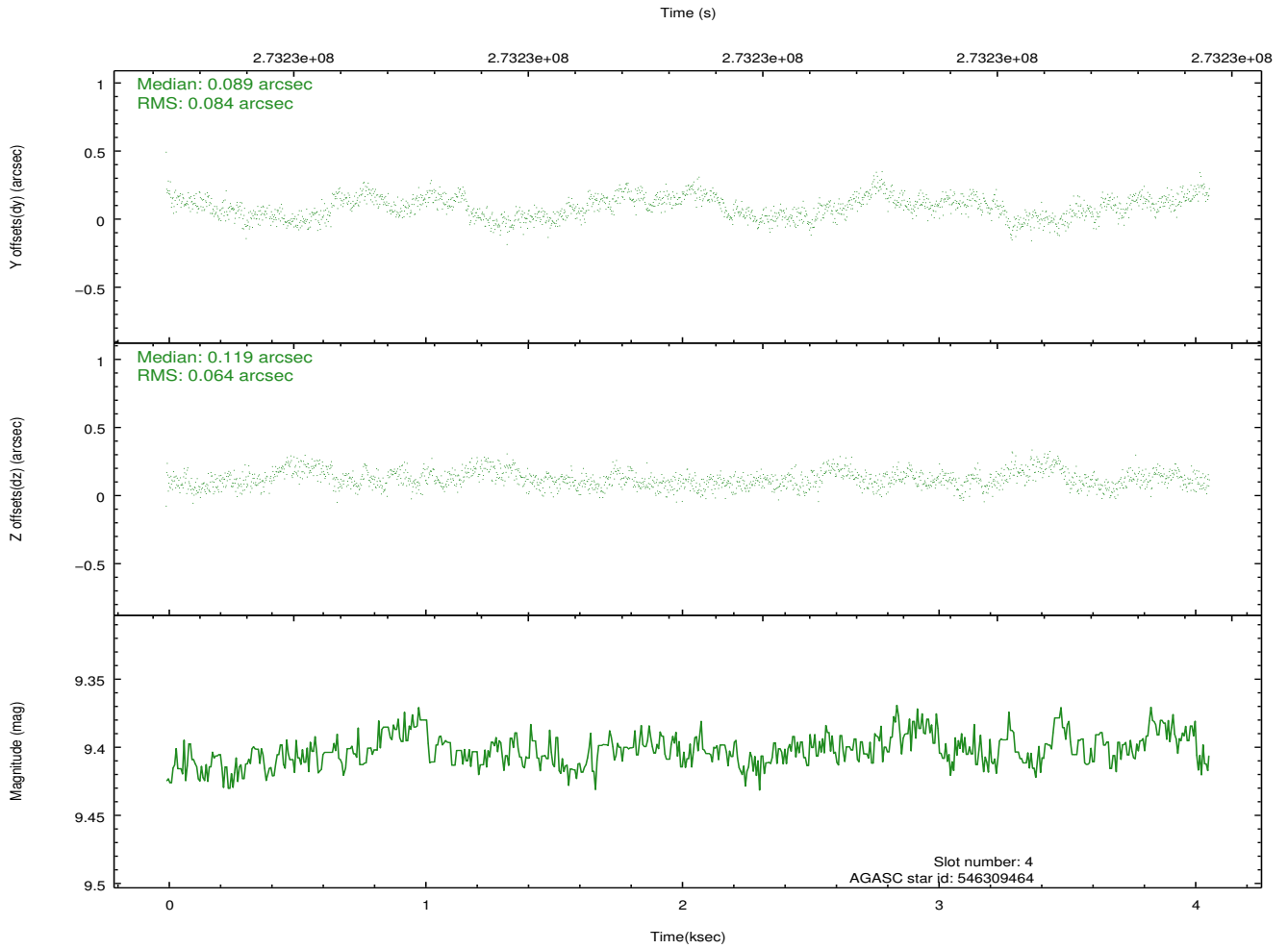
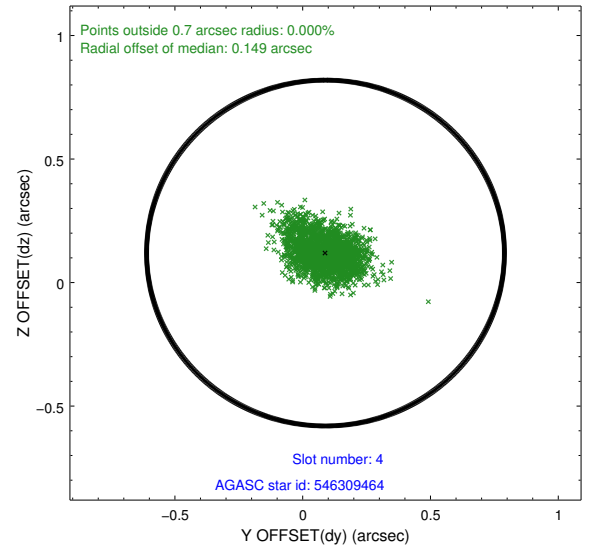
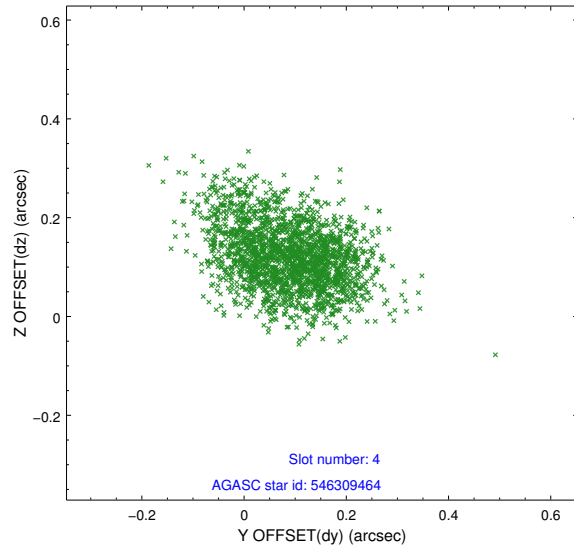
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	992	-0.043	-0.018	0.008	0.014	0.000000	0.000000	-762.58	-1732.67
1	FID	ACIS-S-4	7.21	992	0.151	0.026	0.007	0.013	0.000000	0.000000	2150.18	174.30
2	FID	ACIS-S-5	7.23	991	-0.139	0.001	0.007	0.012	0.000000	0.000000	-1813.57	169.66
3	GUIDE	545394032	7.30	1984	-0.146	-0.190	0.103	0.164	187.742432	65.897854	-1596.07	-1214.49
4	GUIDE	546309464	9.40	1979	0.089	0.119	0.112	0.177	189.184921	65.233202	1545.42	-1897.85
5	GUIDE	546309872	9.71	1984	0.038	-0.063	0.120	0.197	191.081593	65.925123	2280.51	1794.14
6	GUIDE	546311560	9.66	1981	0.112	-0.006	0.171	0.266	189.399429	66.377978	-654.67	1601.53
7	GUIDE	546311272	9.76	1970	-0.093	0.146	0.121	0.195	188.624678	65.219652	892.72	-2435.15

## 2.4 Star Slots

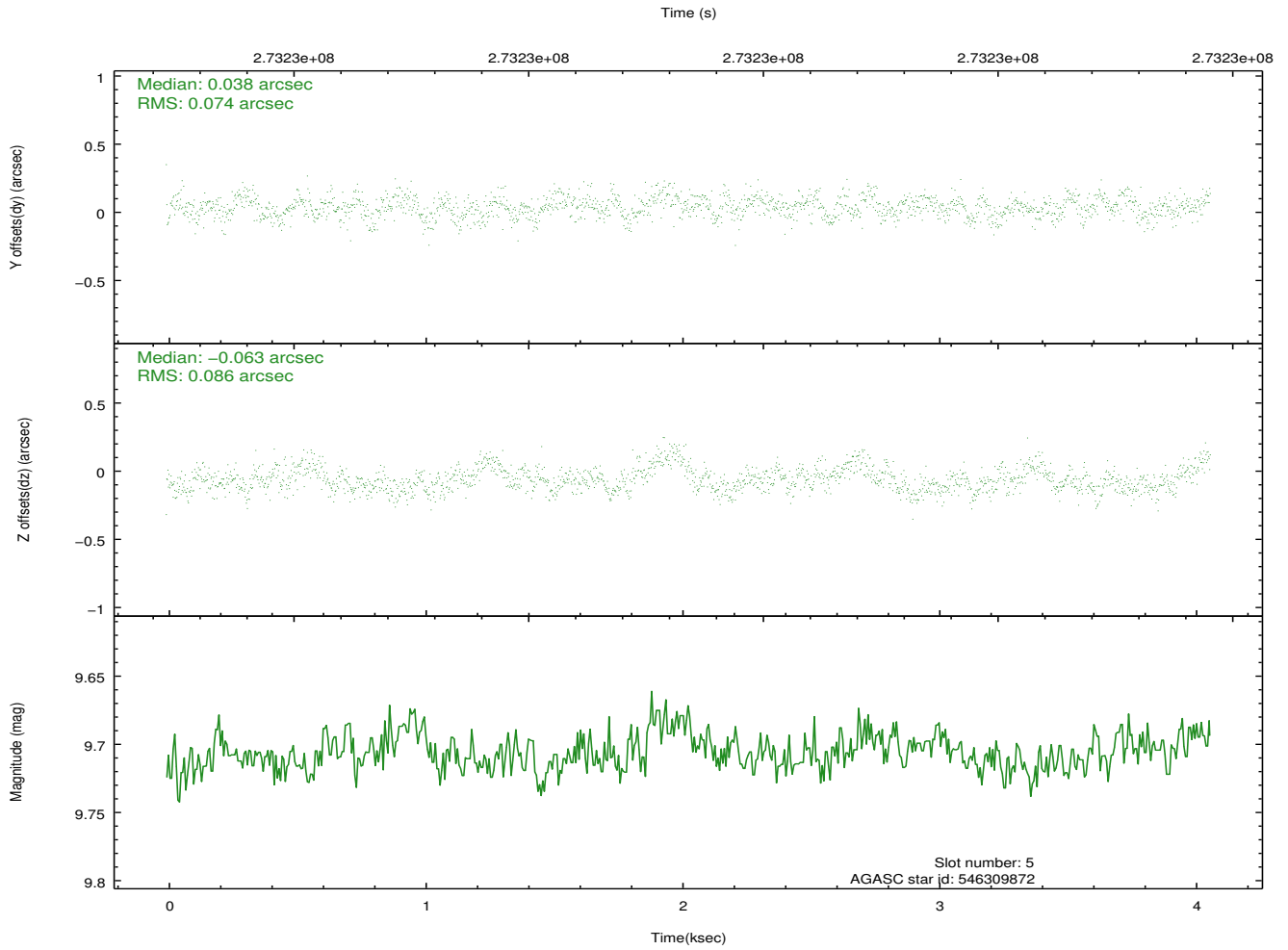
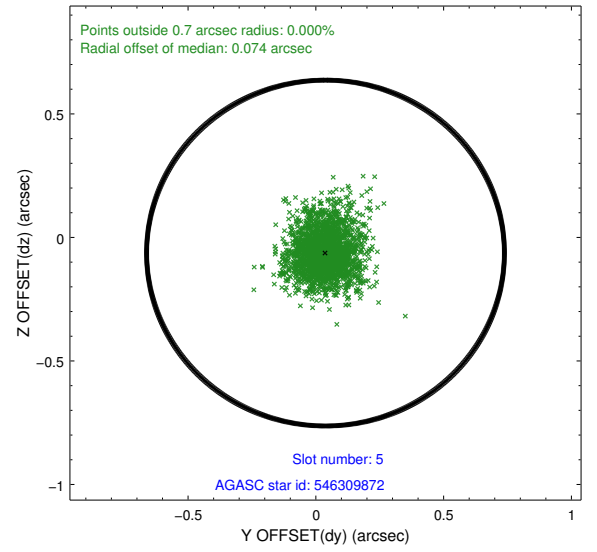
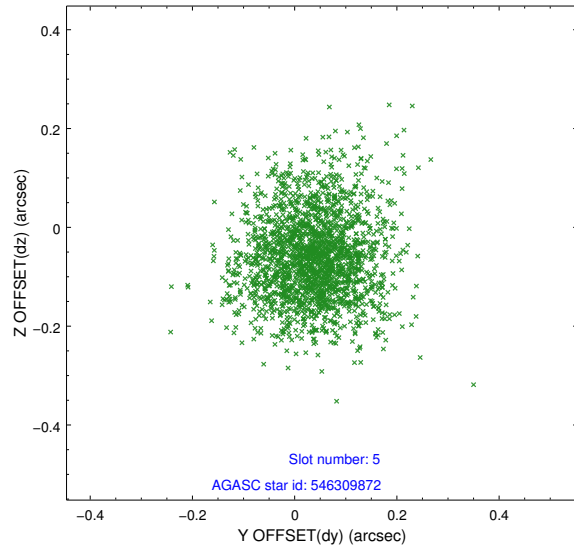
### 2.4.1 Slot 3



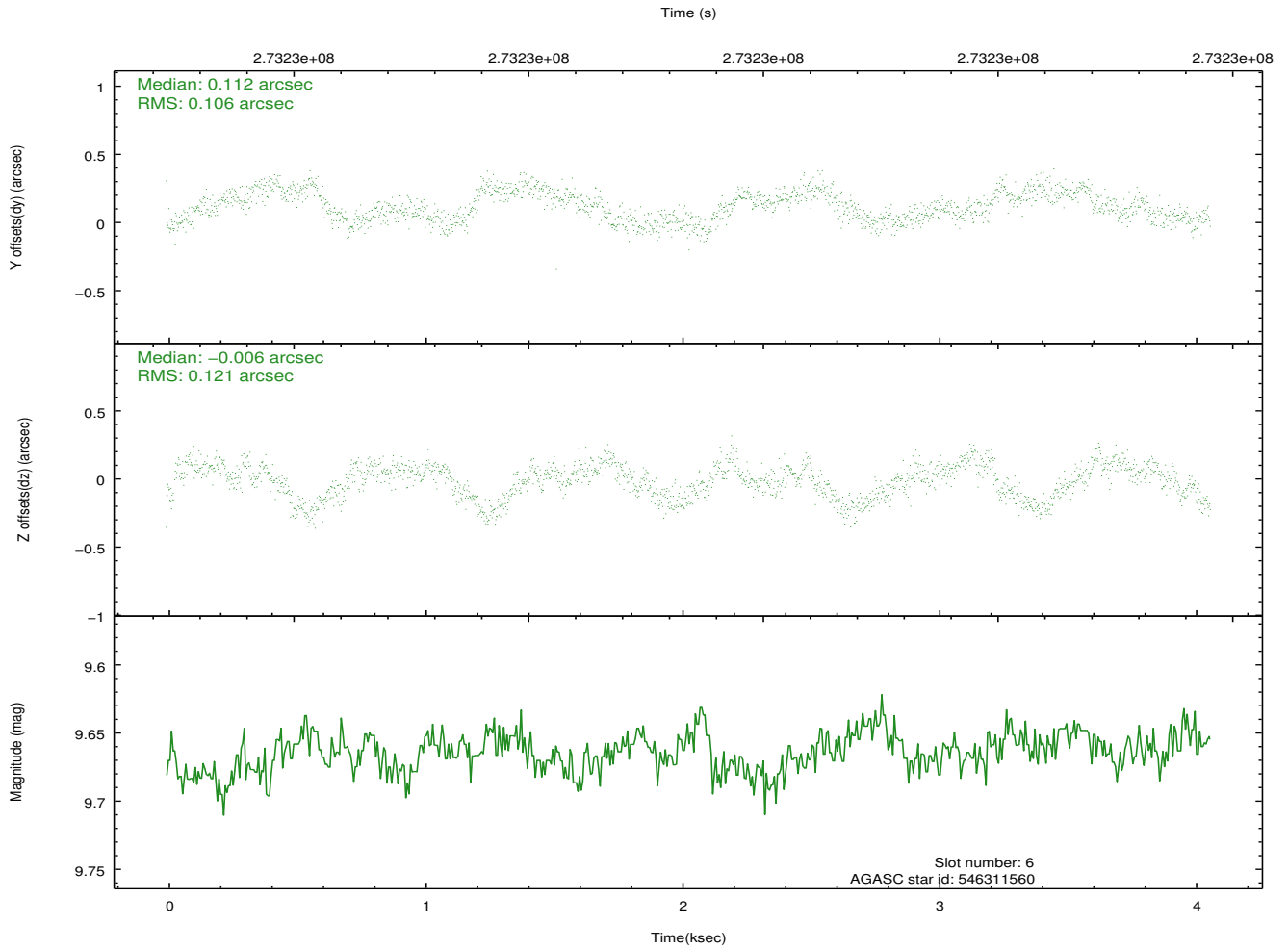
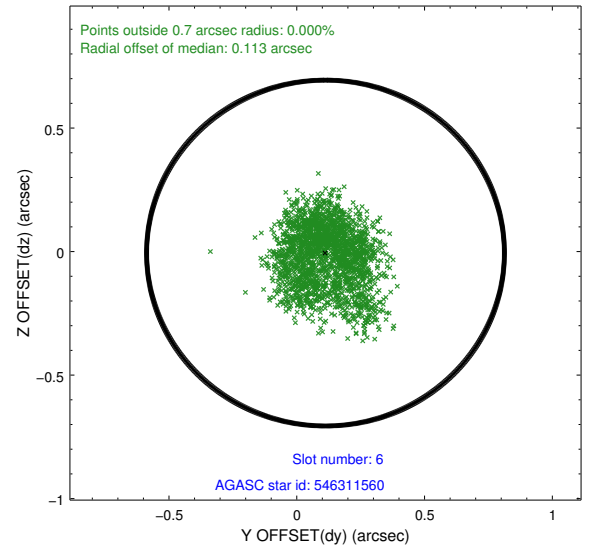
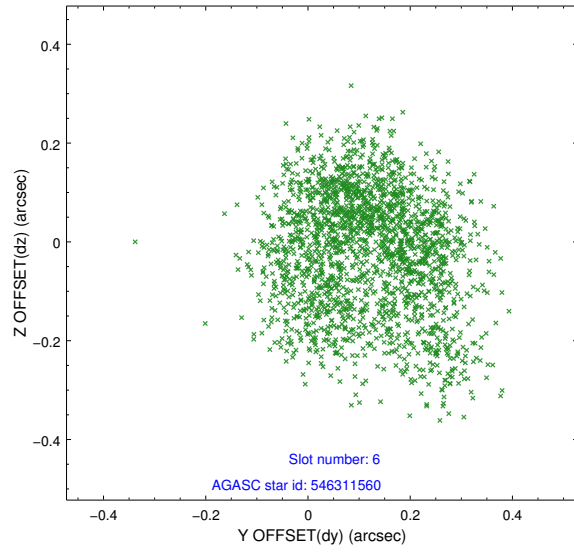
## 2.4.2 Slot 4



### 2.4.3 Slot 5

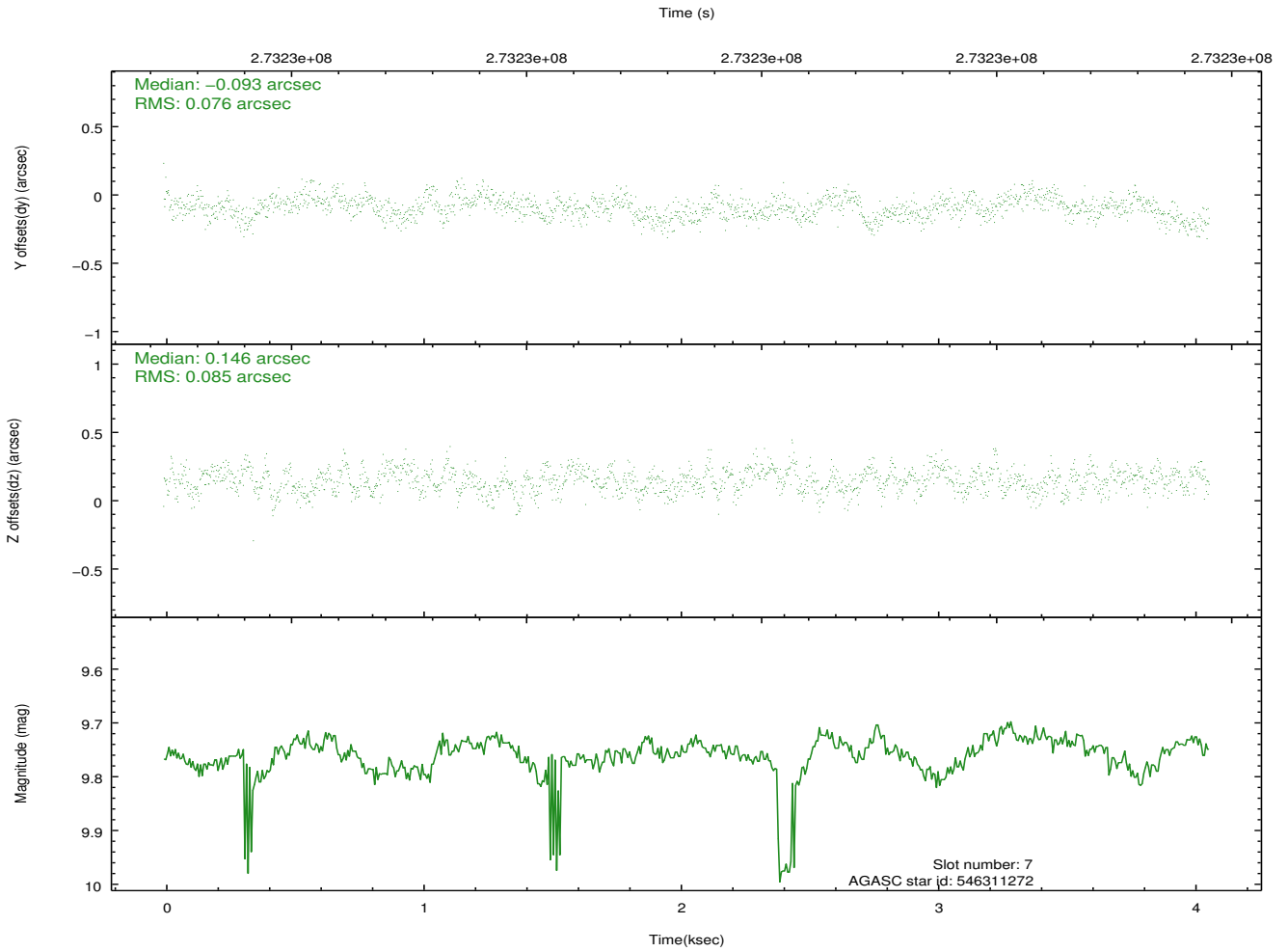
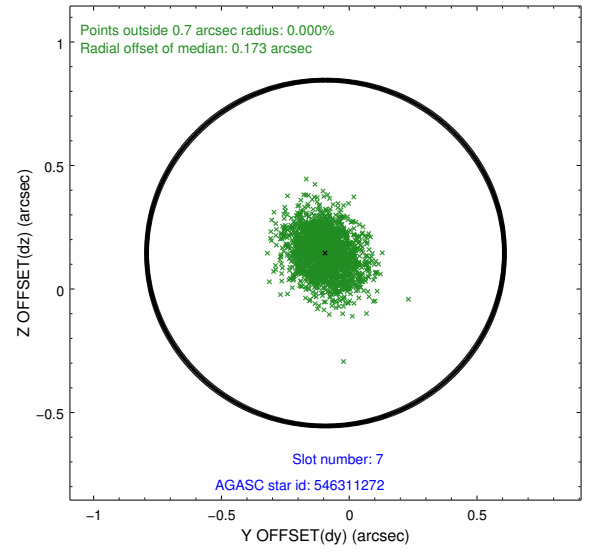
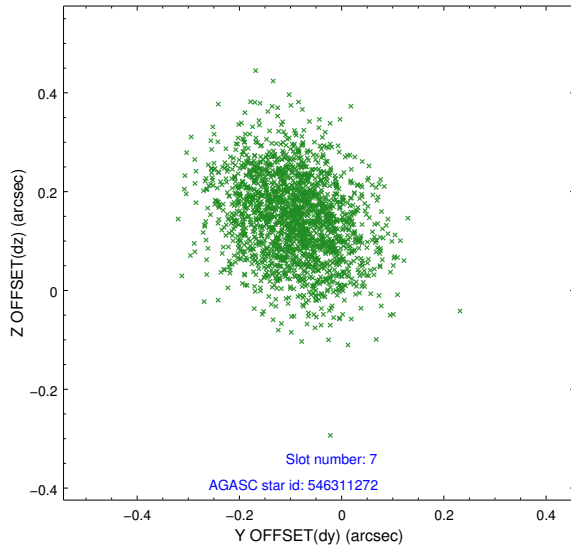


## 2.4.4 Slot 6



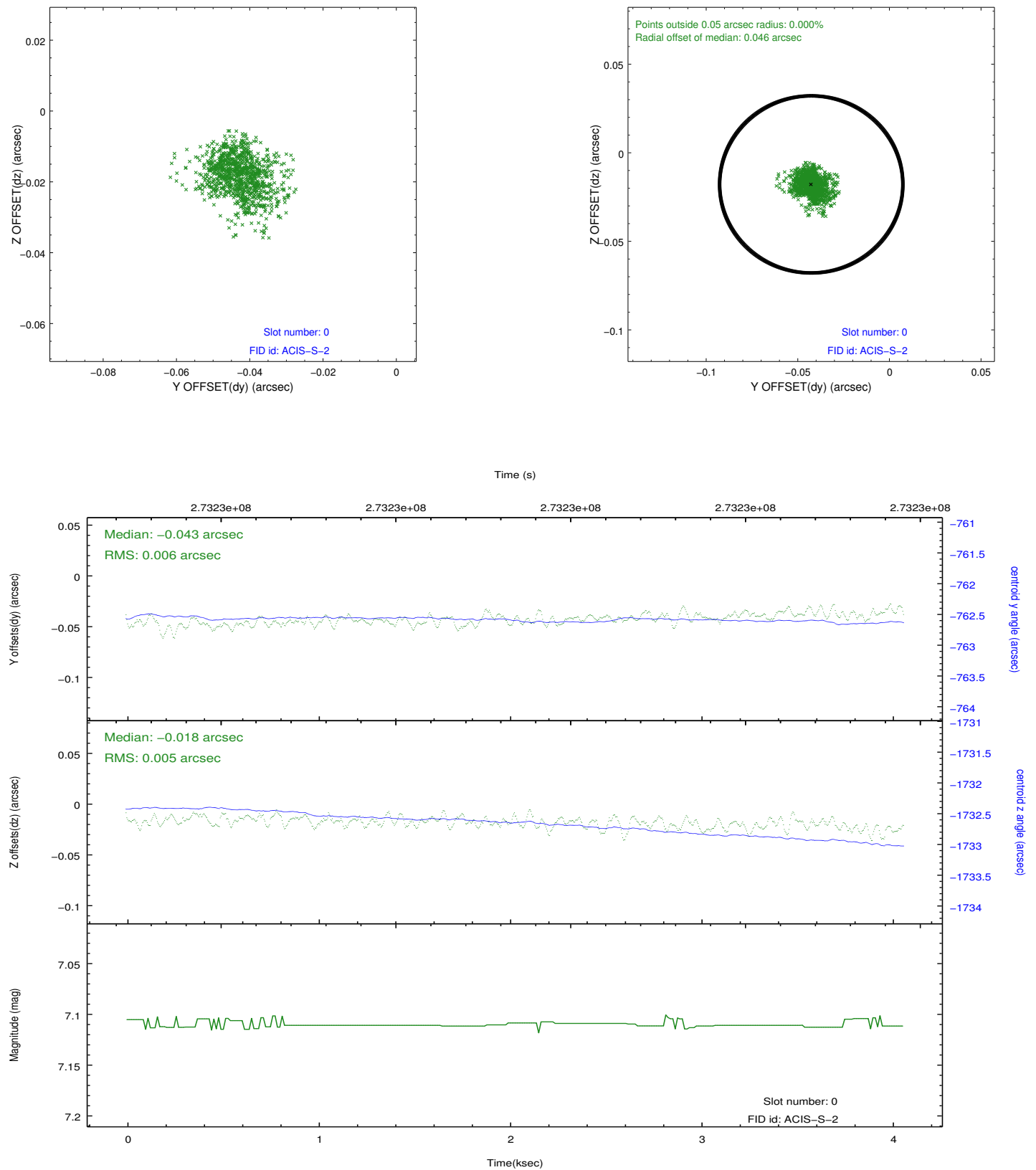


## 2.4.5 Slot 7

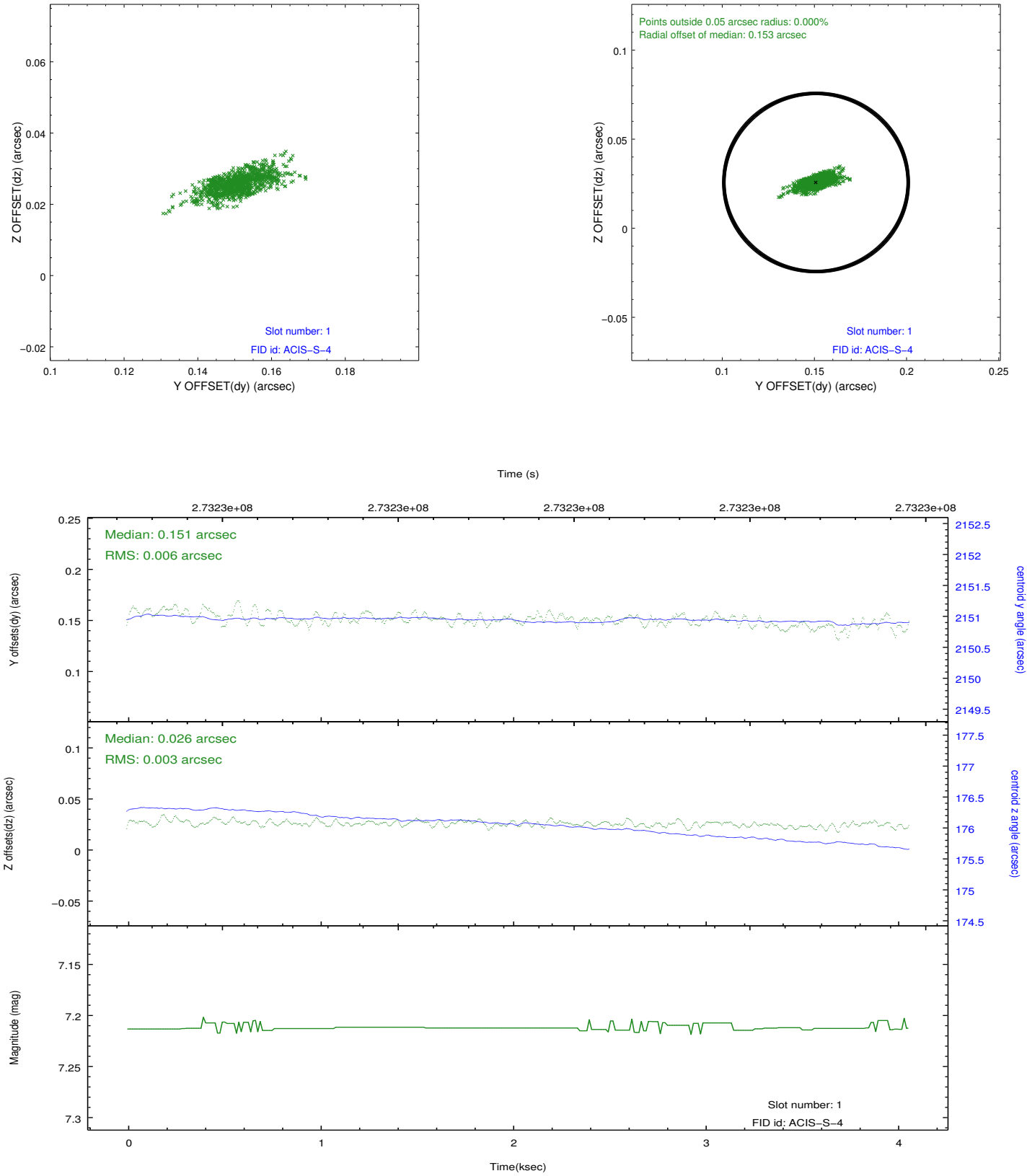


## 2.5 FID Slots

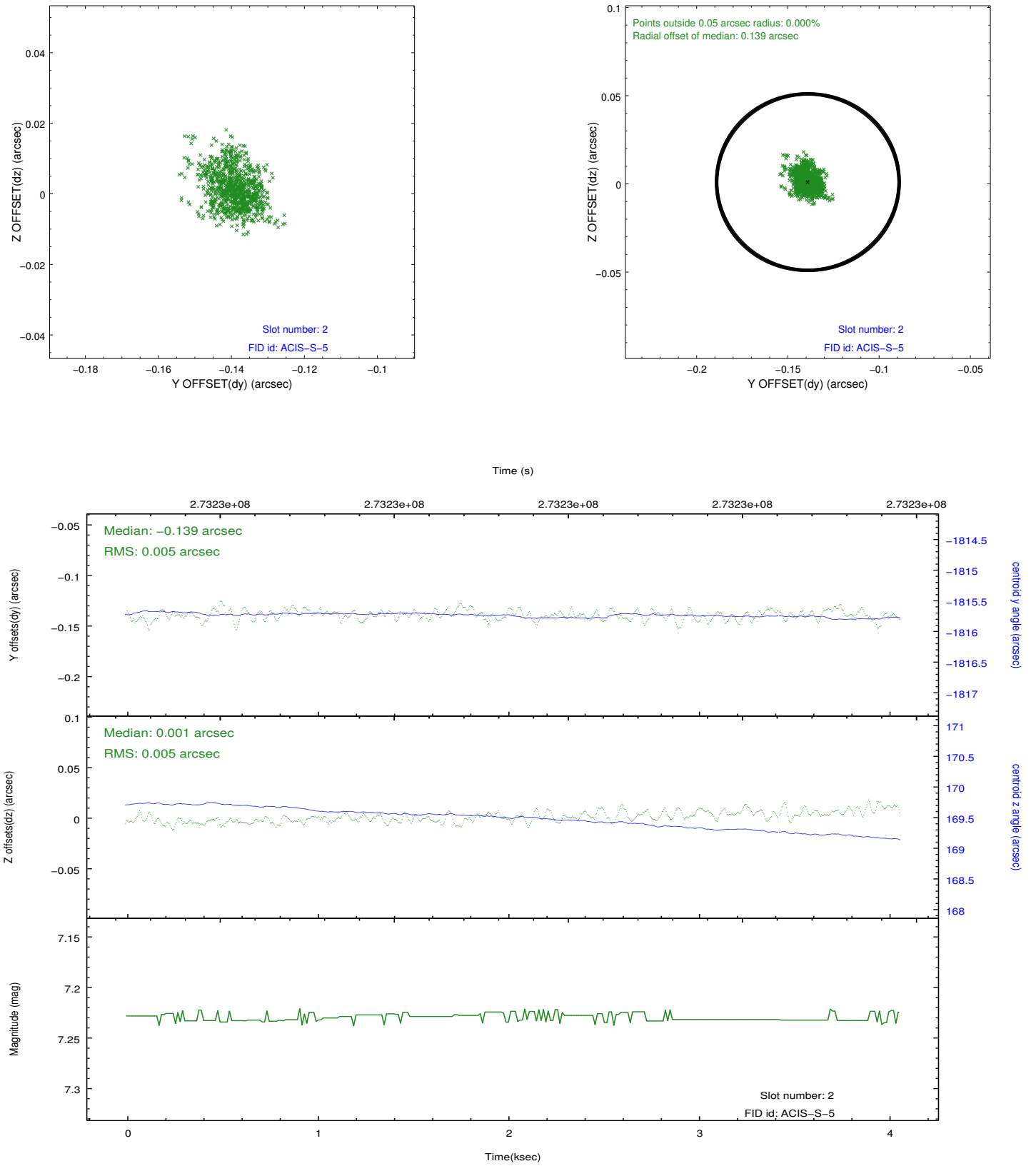
### 2.5.1 Slot 0



## 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)	2012.04.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.05759998

### **A.2 Comments**