

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4096 - L2 Version 3  
Chandra X-Ray Center

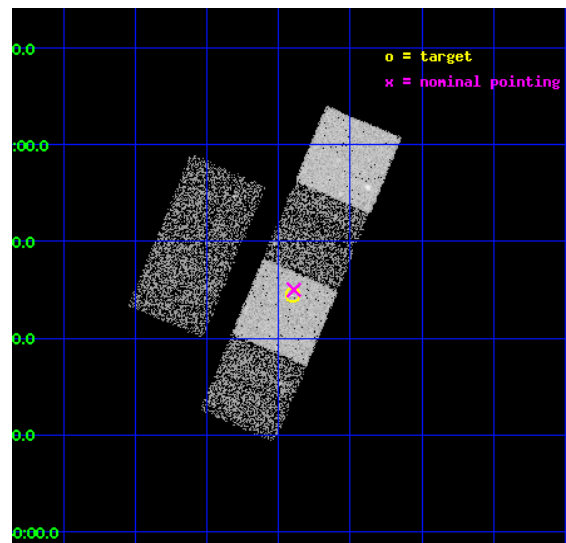
L2 Processing Date : Nov 1 2012

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# 1 Front

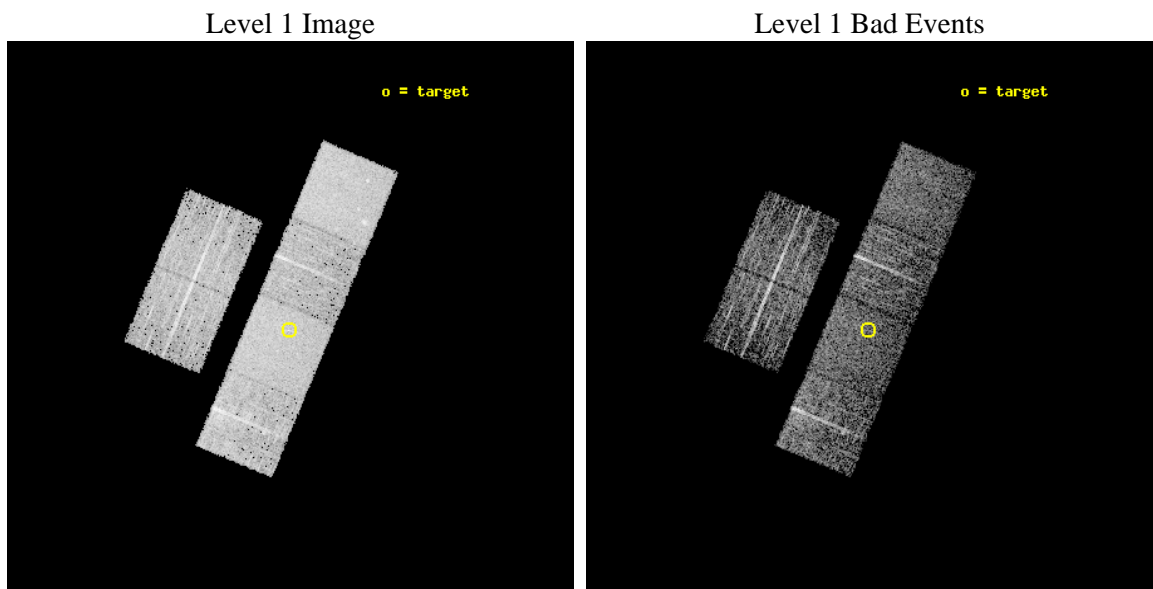
seq_num	700775	Sequence number
obs_id	4096	Observation id
title	X-RAY CONSTRAINTS ON THE STRUCTURE OF THE BROAD EMISSION LINE REGION IN QUASARS	Proposal title
observer	Dr. Gordon Richards	Principal investigator
object	SDSS J000654.11-001533.4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	1.725417	Observer's specified target RA [deg]
dec_targ	-0.259278	Observer's specified target Dec [deg]
ra_nom	1.723251328839	Nominal RA [deg]
dec_nom	-0.2498404922068	Nominal Dec [deg]
roll_nom	112.83048237138	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4508.7999832034	Sum of GTIs [s]
livetime	4451.7068429427	Livetime [s]
ontime2	4508.7999832034	Sum of GTIs [s]
ontime3	4508.7999832034	Sum of GTIs [s]
ontime5	4508.7999832034	Sum of GTIs [s]
ontime6	4508.7999832034	Sum of GTIs [s]
ontime7	4508.7999832034	Sum of GTIs [s]
ontime8	4508.7999832034	Sum of GTIs [s]
l2events	47915	Number of level 2 events



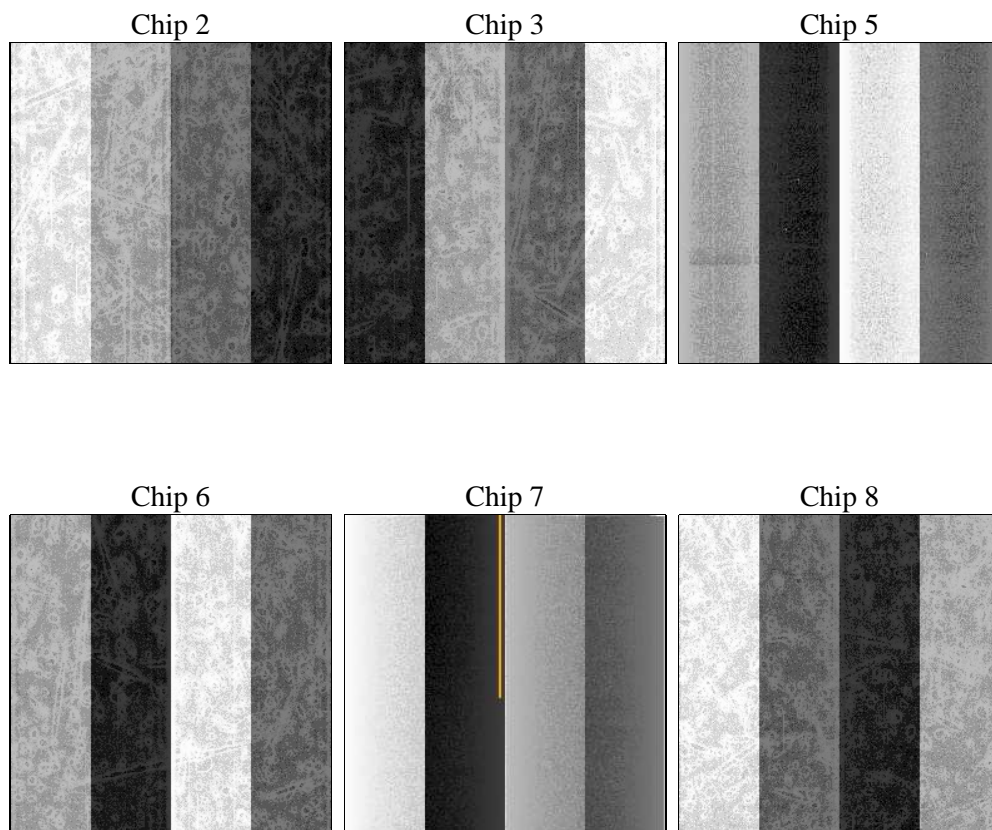
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	4550.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4508.7999832034	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	4508.7999832034	Sum of GTIs [s]
date	2012-11-01T10:34:42	Date and time of file creation	ontime3	4508.7999832034	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4508.7999832034	Sum of GTIs [s]
			ontime6	4508.7999832034	Sum of GTIs [s]
			ontime7	4508.7999832034	Sum of GTIs [s]
			ontime8	4508.7999832034	Sum of GTIs [s]
			l1events	200544	Number of level 1 events

### 2.1.4 Events

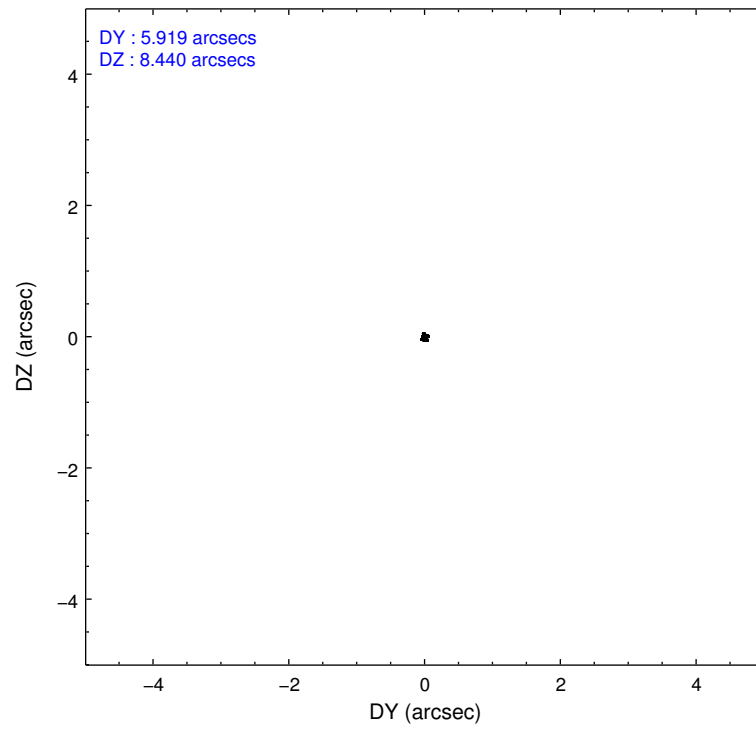
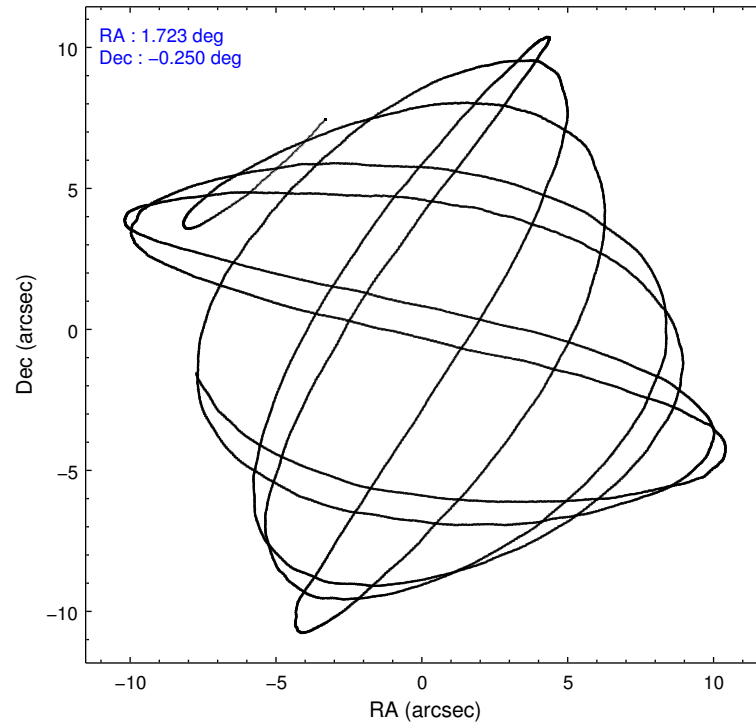
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	29619	27790	42193	27473	39068	34401	grade 0 events	1532	1469	1806	1511	1549	2641
rejected events	26200	24537	22458	24046	22018	27051		5%	5%	4%	5%	3%	7%
rejected %	88%	88%	53%	87%	56%	78%	grade 1 events	18	17	60	7	38	21
								0%	0%	0%	0%	0%	0%
							grade 2 events	690	618	5798	649	3329	1478
								2%	2%	13%	2%	8%	4%
							grade 3 events	312	317	813	311	1459	787
								1%	1%	1%	1%	3%	2%
							grade 4 events	322	307	786	310	1485	709
								1%	1%	1%	1%	3%	2%
							grade 5 events	1117	1227	2967	1236	3655	1685
								3%	4%	7%	4%	9%	4%
							grade 6 events	564	550	10566	653	9260	1740
								1%	1%	25%	2%	23%	5%
							grade 7 events	25064	23285	19397	22796	18293	25340
								84%	83%	45%	82%	46%	73%

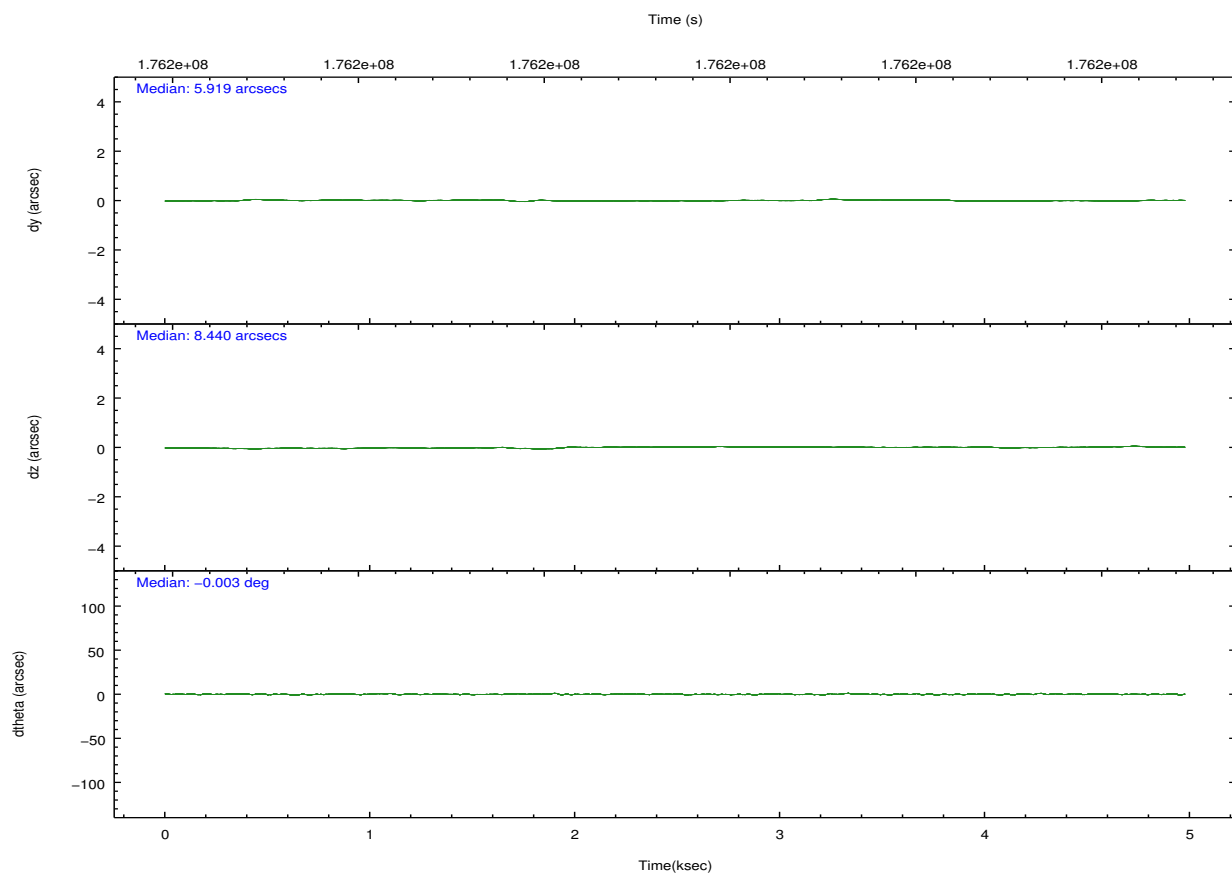
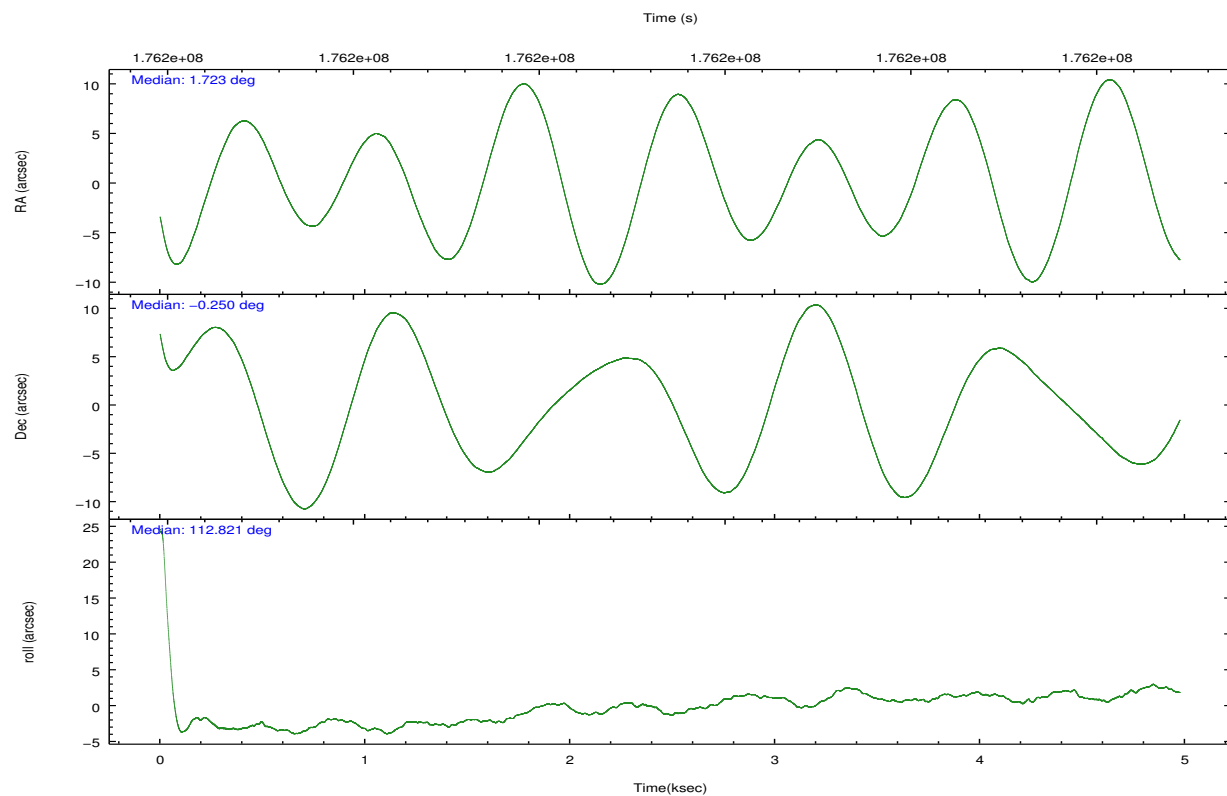


## 2.2 Compared Parameters

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	1.745206	1.723251328839012	Subarray requested	NONE	NONE
[deg] Pointing Dec	-0.266006	-0.2498404922068033	Alternating exposures requested	N	N
[deg] Pointing Roll	112.673868	112.8304823713843	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	176199644.184000	176198559.77091			
Observation start date	2003-08-02T08:19:40	2003-08-02T08:02:39			
[s] Observation end time (MET)	176204194.184000	176204998.82119			
Observation end date	2003-08-02T09:35:30	2003-08-02T09:49:58			
Read mode	TIMED	TIMED			

## 2.3 Aspect



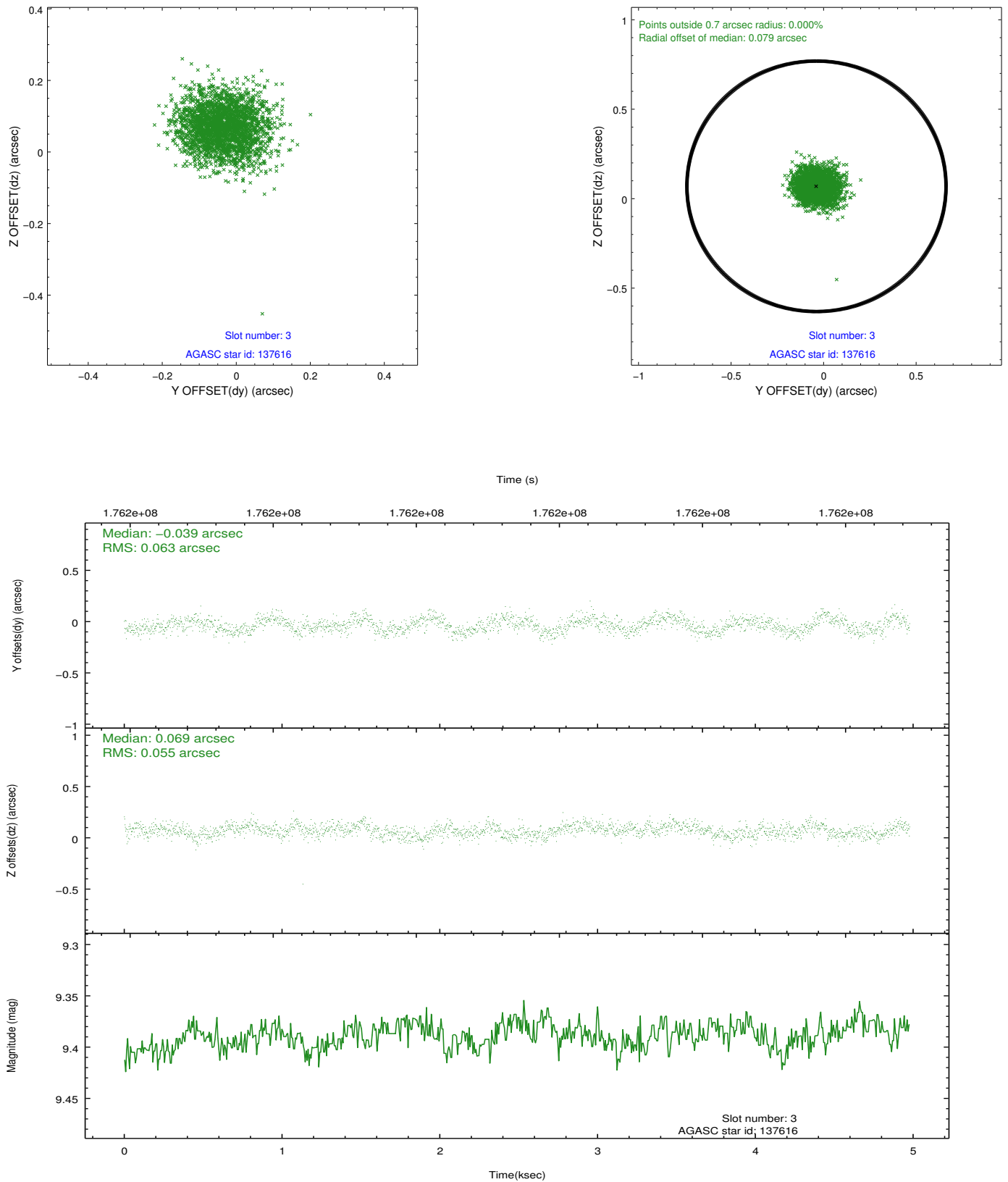


### Slot Statistics

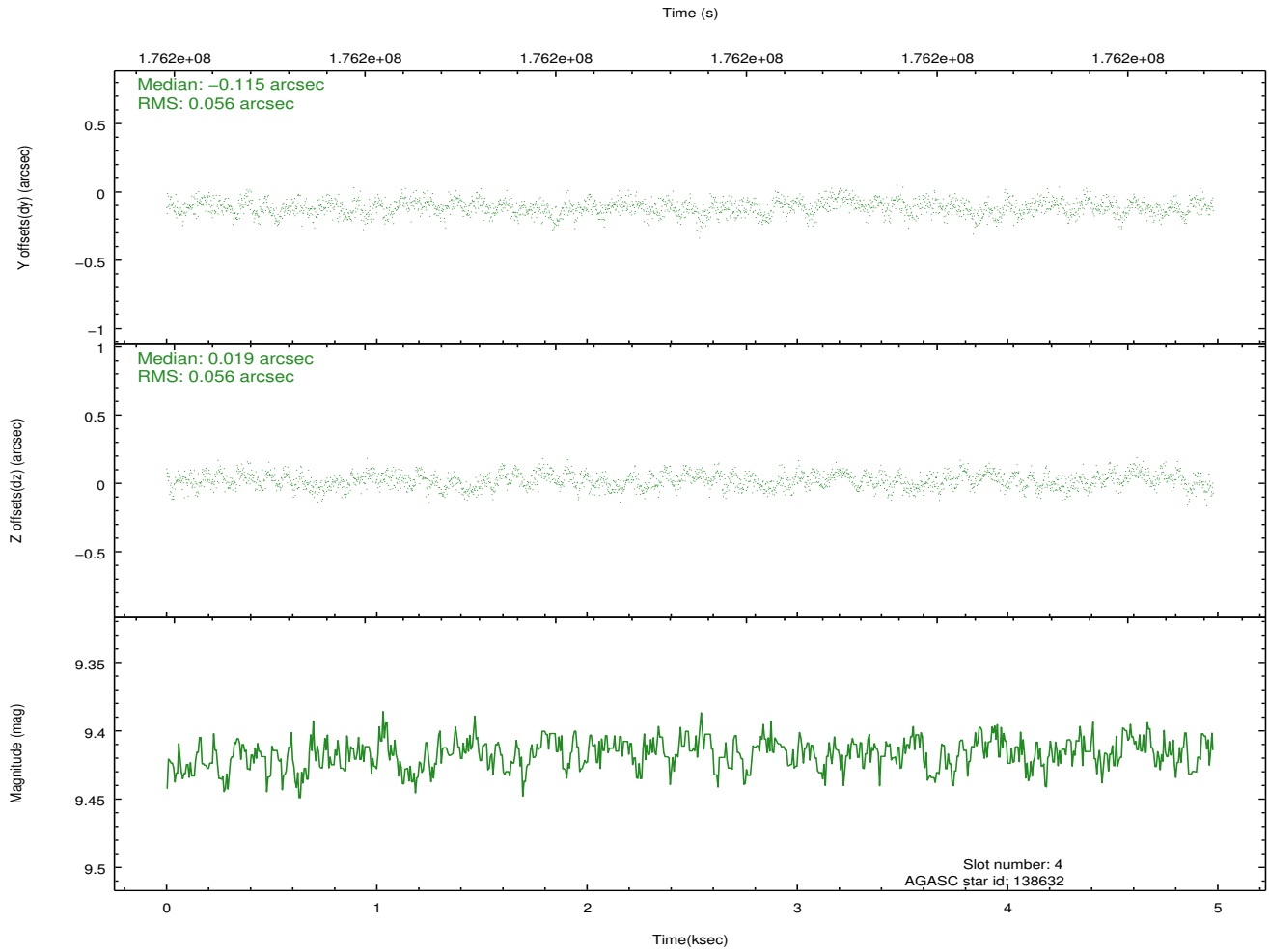
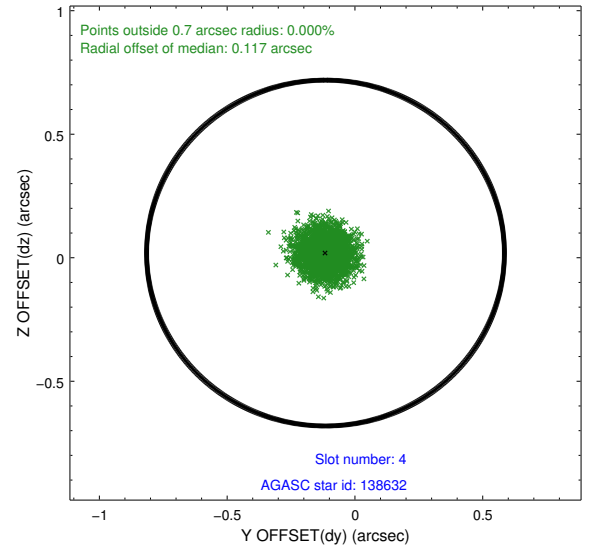
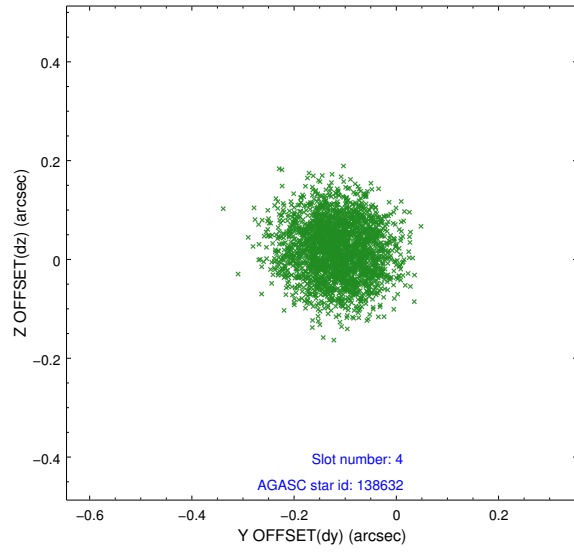
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1214	-0.033	-0.033	0.007	0.011	0.000000	0.000000	-758.70	-1729.66
1	FID	ACIS-S-4	7.20	1214	0.053	0.025	0.005	0.010	0.000000	0.000000	2154.13	177.58
2	FID	ACIS-S-5	7.23	1214	-0.051	0.017	0.006	0.011	0.000000	0.000000	-1809.96	172.69
3	GUIDE	137616	9.39	2428	-0.039	0.069	0.089	0.139	1.910737	0.179097	1249.29	-1167.49
4	GUIDE	138632	9.42	2429	-0.115	0.019	0.086	0.131	1.786186	0.339837	1956.47	-977.25
5	GUIDE	138904	9.24	2427	0.029	0.051	0.081	0.134	1.959050	0.129938	1019.57	-1260.46
6	GUIDE	611191016	10.05	2429	0.267	0.065	0.121	0.200	1.849398	-0.356076	-442.77	-221.85
7	GUIDE	611192512	9.12	2427	-0.147	-0.203	0.093	0.147	1.062008	-0.007399	1806.79	1910.37

## 2.4 Star Slots

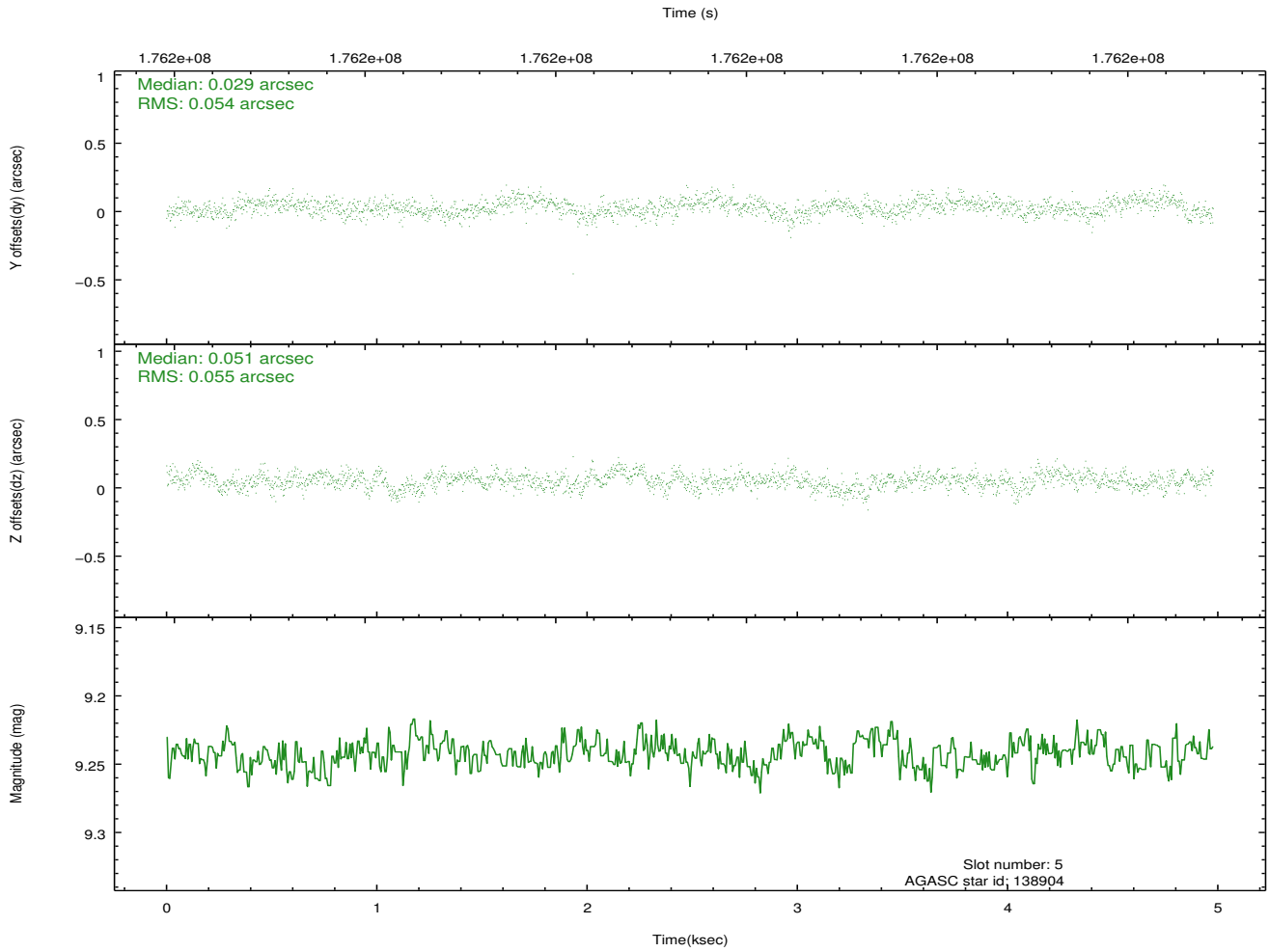
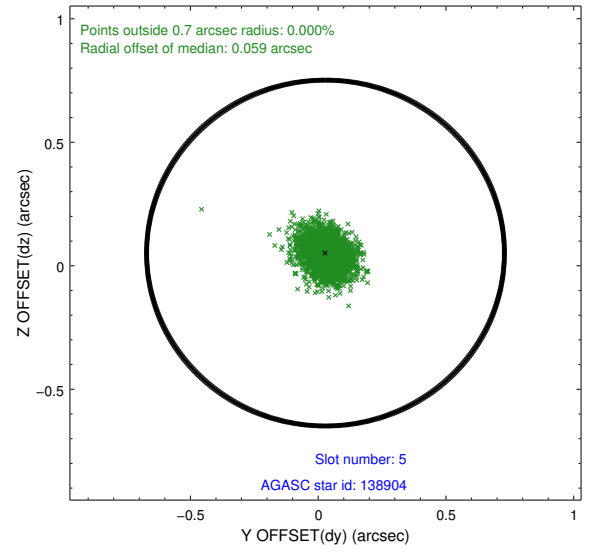
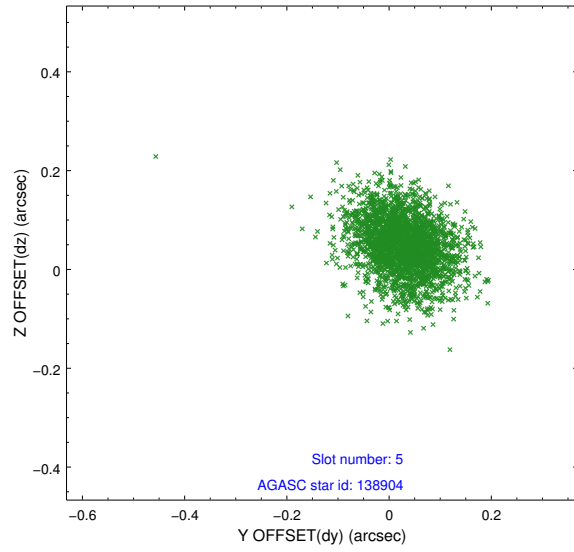
### 2.4.1 Slot 3



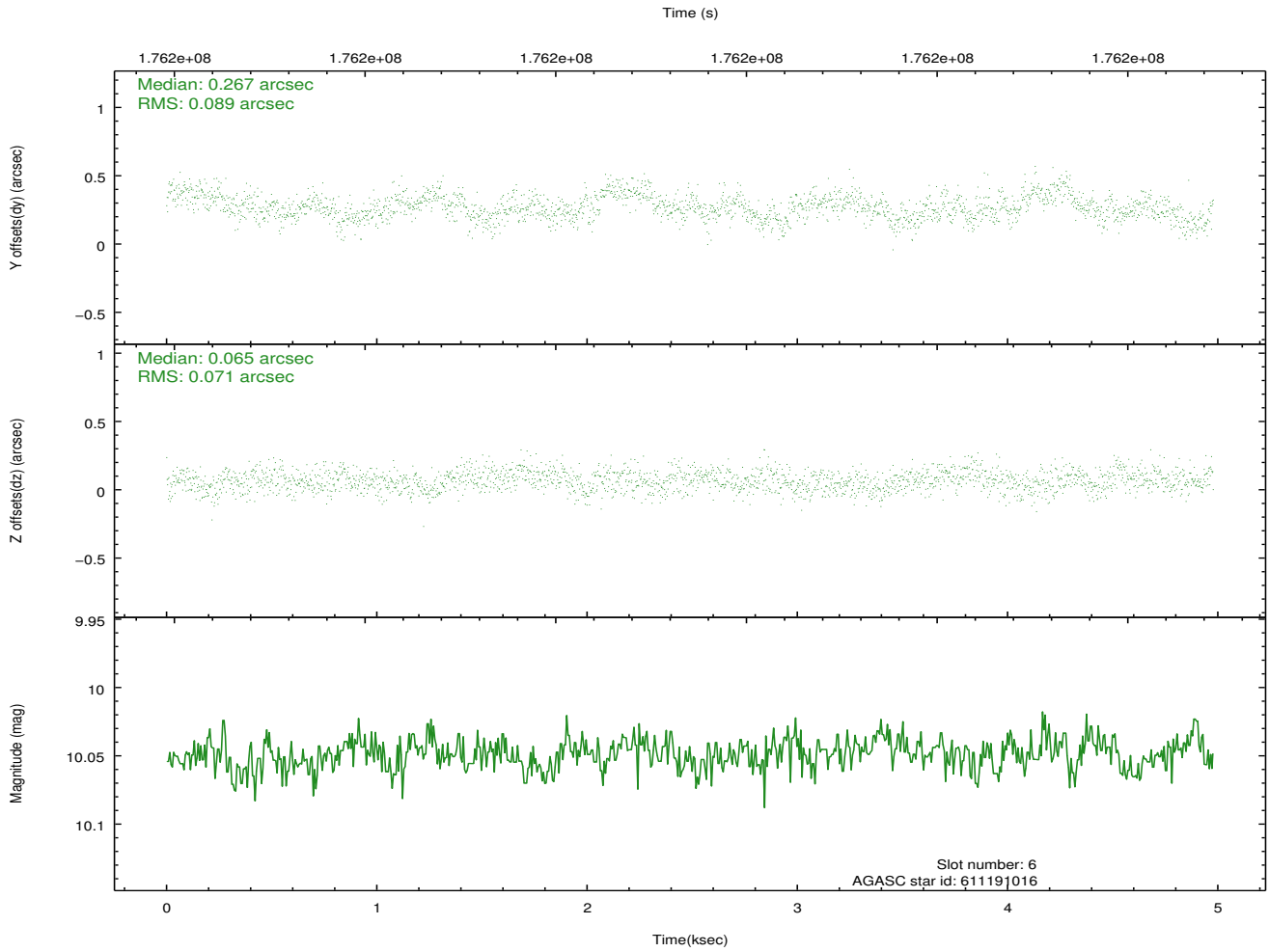
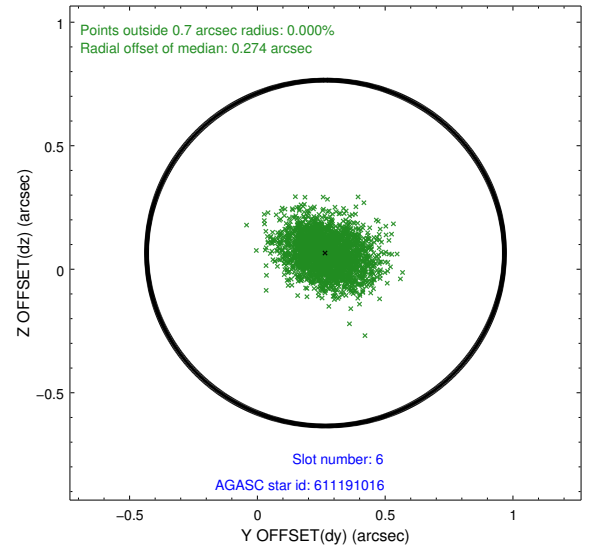
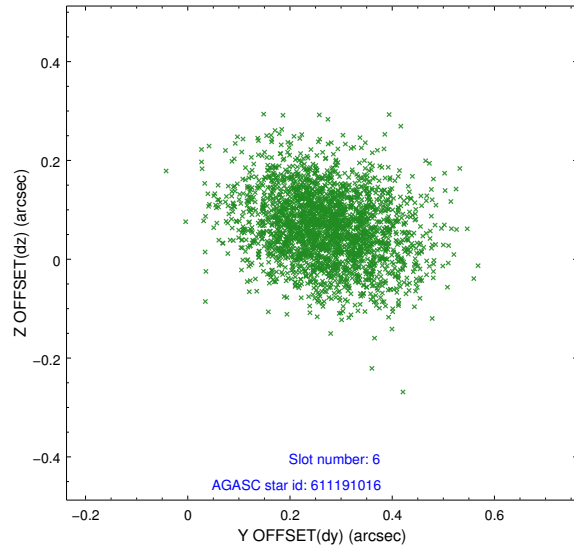
## 2.4.2 Slot 4



### 2.4.3 Slot 5

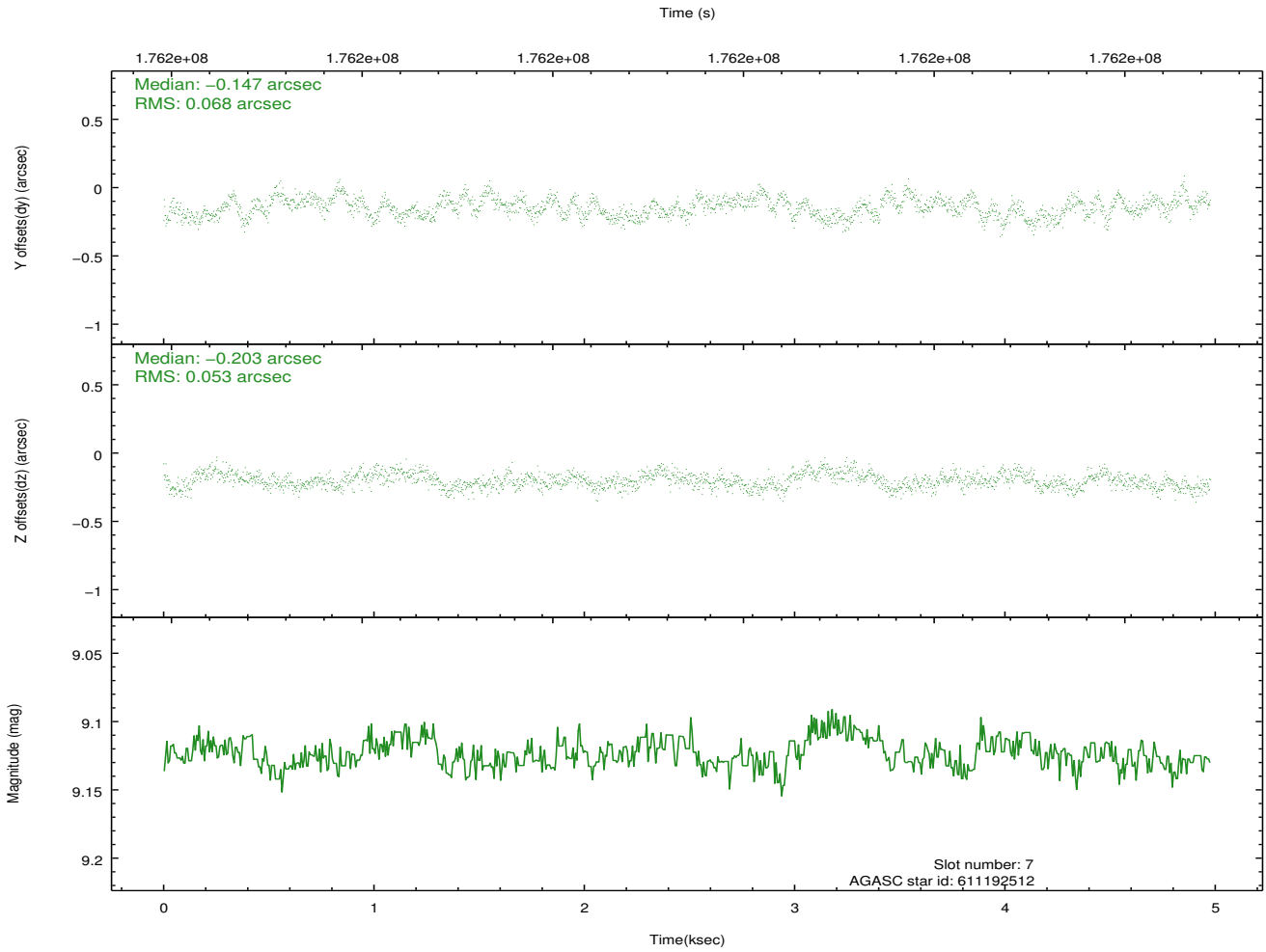
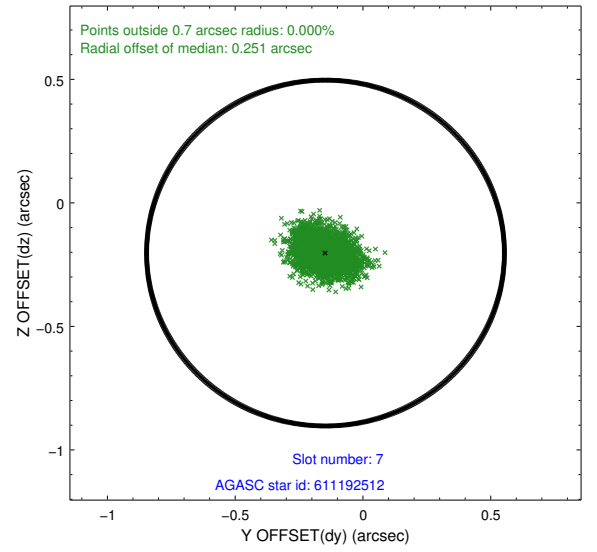
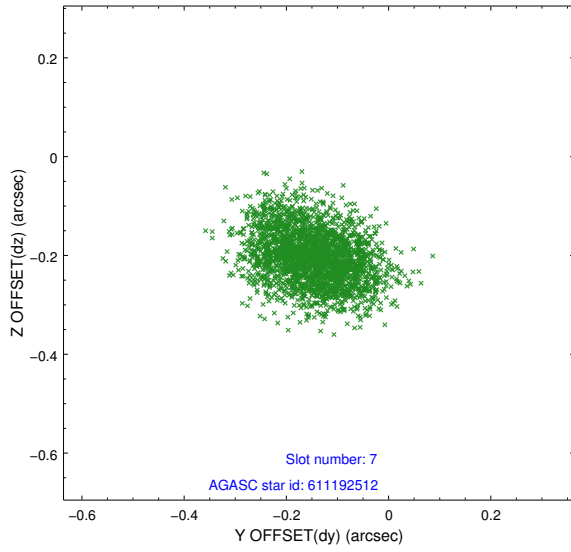


## 2.4.4 Slot 6



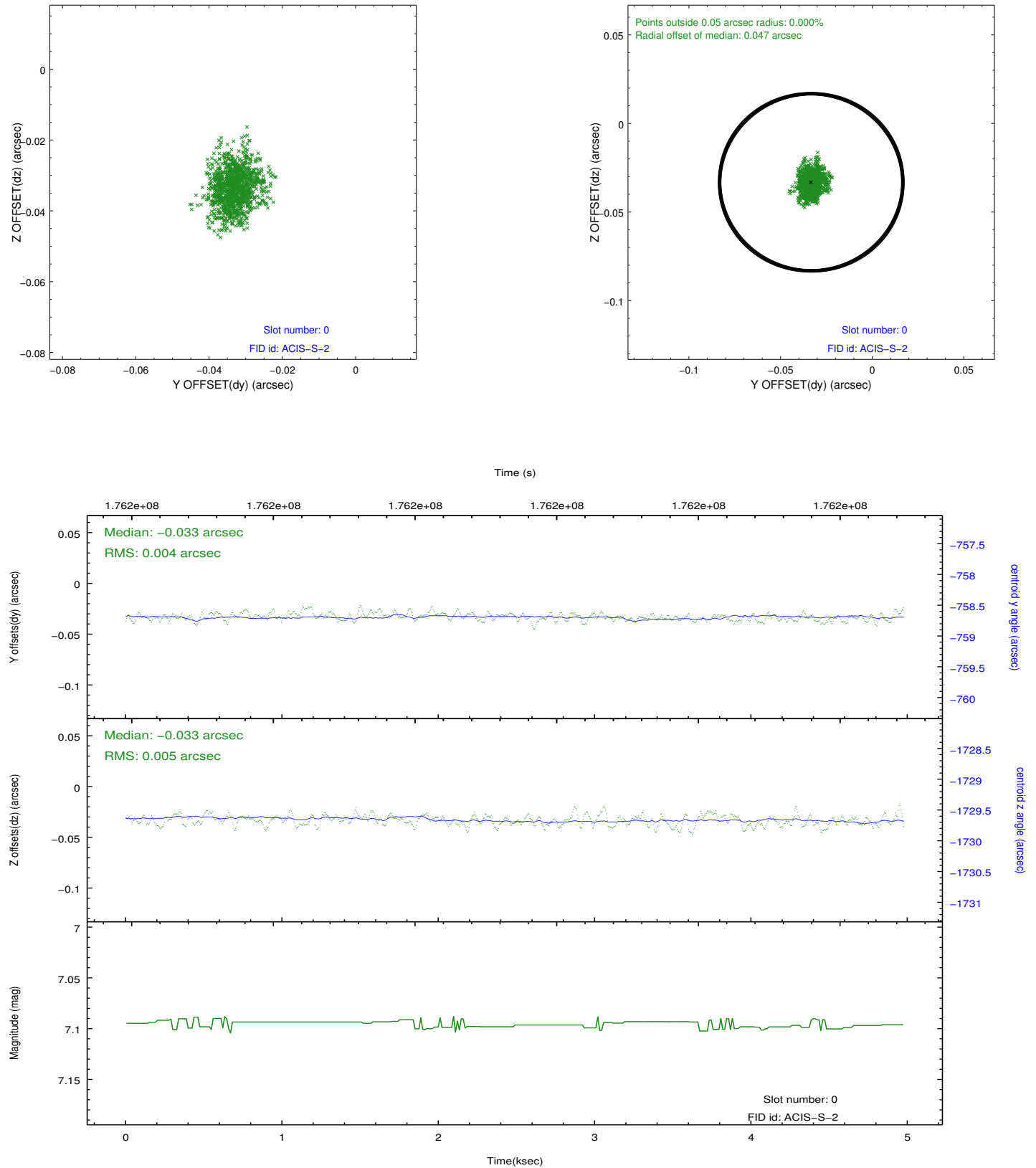


### 2.4.5 Slot 7

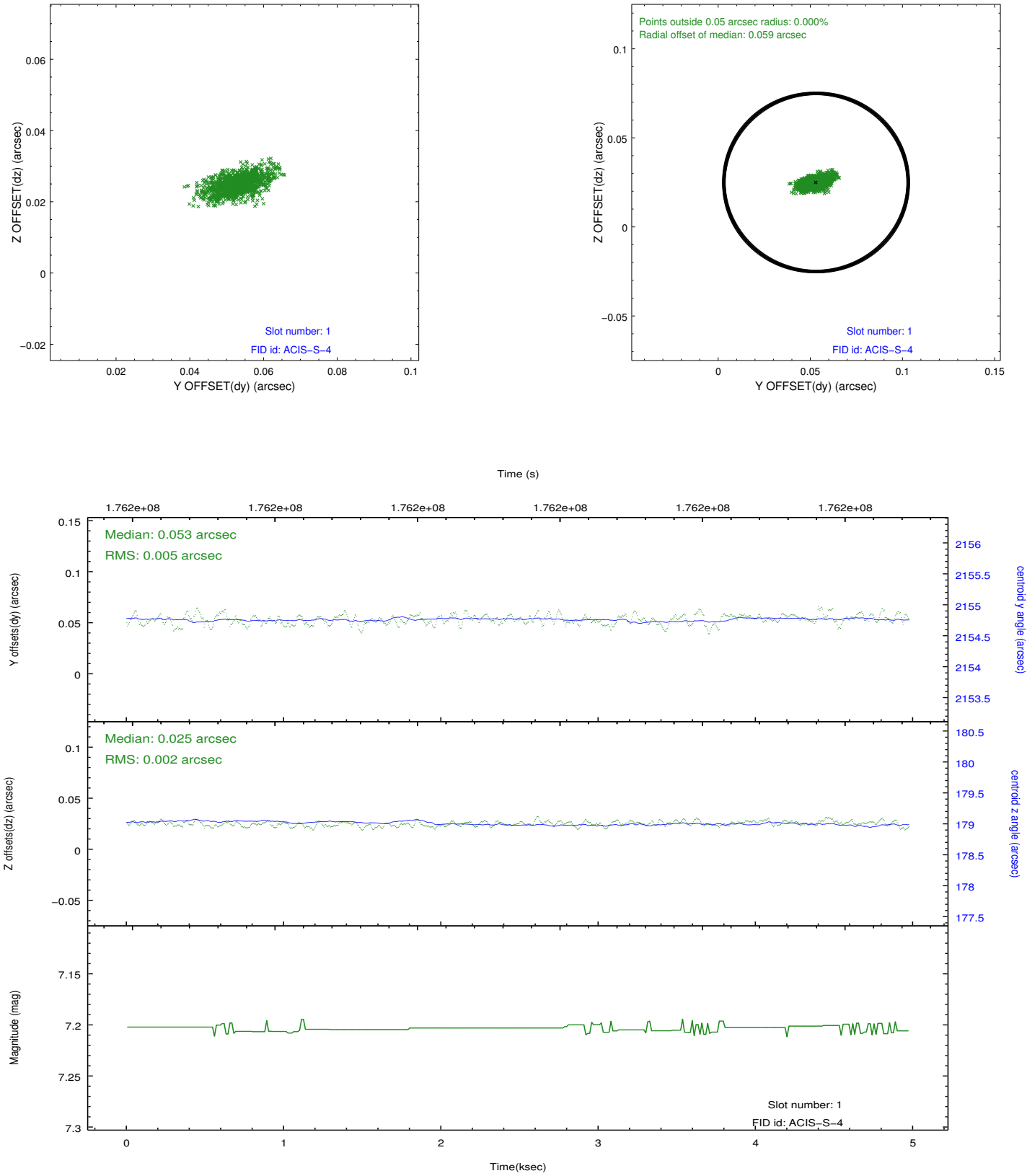


## 2.5 FID Slots

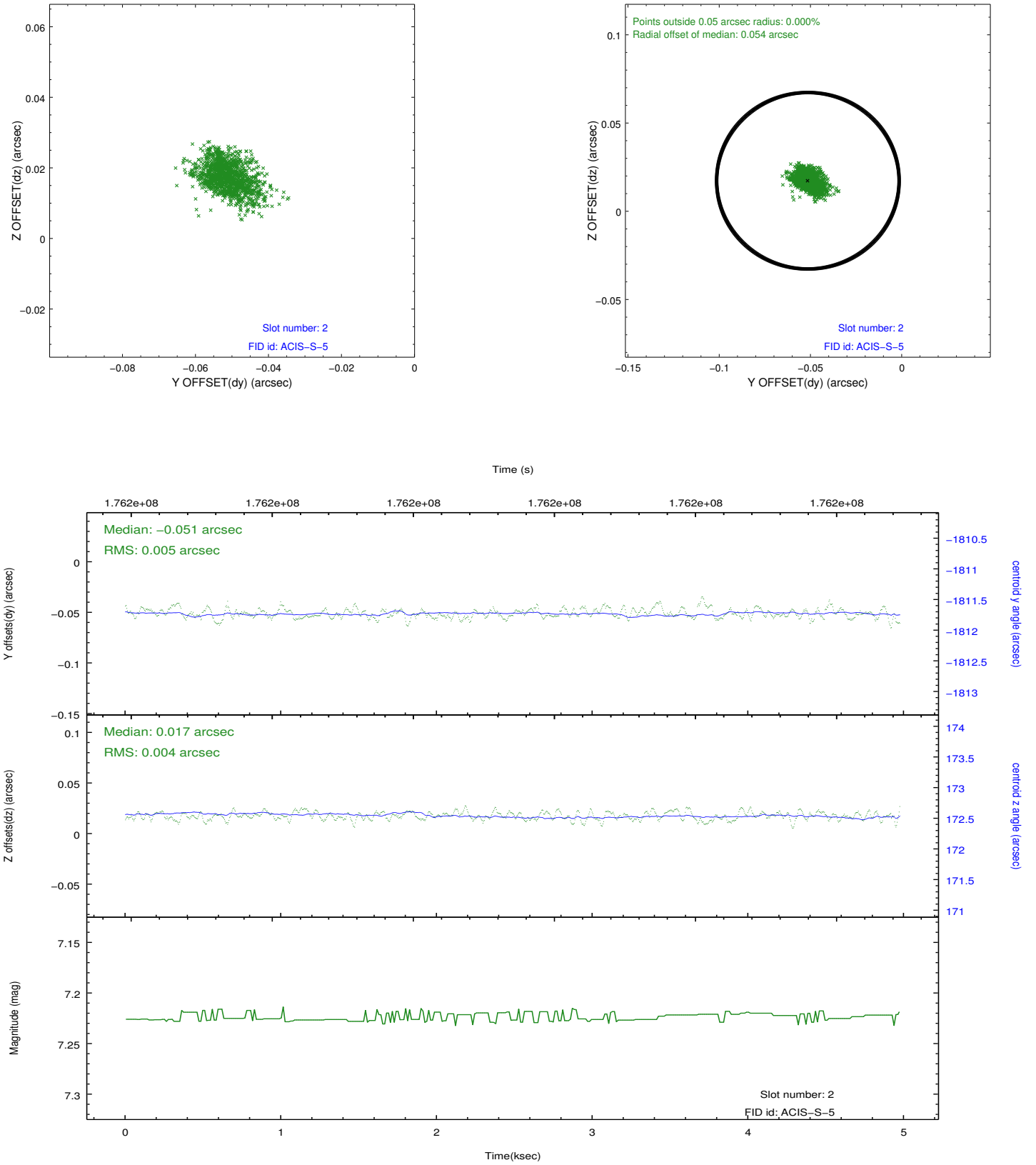
### 2.5.1 Slot 0



## 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)	2012.11.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.511

### **A.2 Comments**