

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4769 - L2 Version 3  
Chandra X-Ray Center

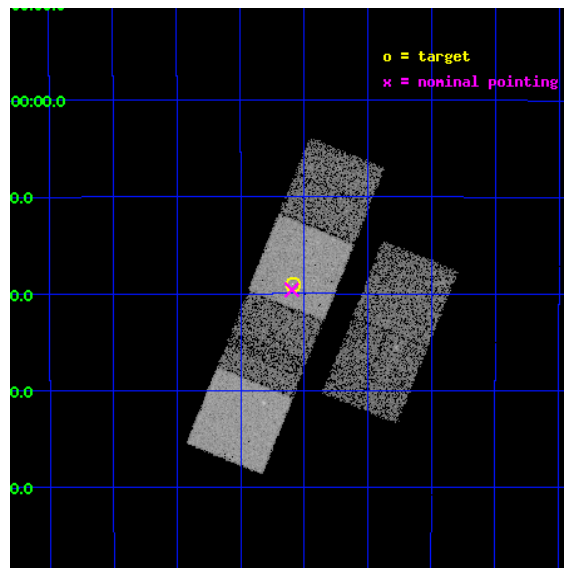
L2 Processing Date : Nov 8 2012

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# 1 Front

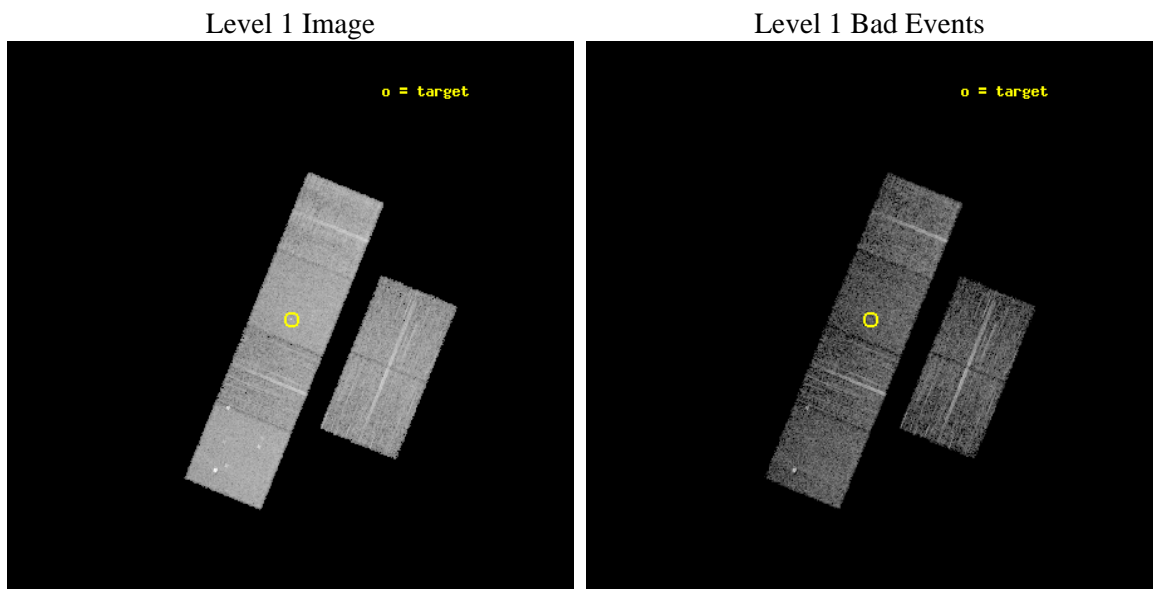
seq_num	700852	Sequence number
obs_id	4769	Observation id
title	Alternate - A Chandra Survey of Luminous, Radio-Loud Quasars at High Redshift extension	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	PMN J2219-2719	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	334.897083	Observer's specified target RA [deg]
dec_targ	-27.317417	Observer's specified target Dec [deg]
ra_nom	334.89935024619	Nominal RA [deg]
dec_nom	-27.326847465299	Nominal Dec [deg]
roll_nom	292.11923519632	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8152.7477827966	Sum of GTIs [s]
livetime	8049.5127813755	Livetime [s]
ontime2	8152.7888227999	Sum of GTIs [s]
ontime3	8152.6246627867	Sum of GTIs [s]
ontime5	8152.7067427933	Sum of GTIs [s]
ontime6	8152.66570279	Sum of GTIs [s]
ontime7	8152.7477827966	Sum of GTIs [s]
ontime8	8149.3426724374	Sum of GTIs [s]
l2events	78077	Number of level 2 events



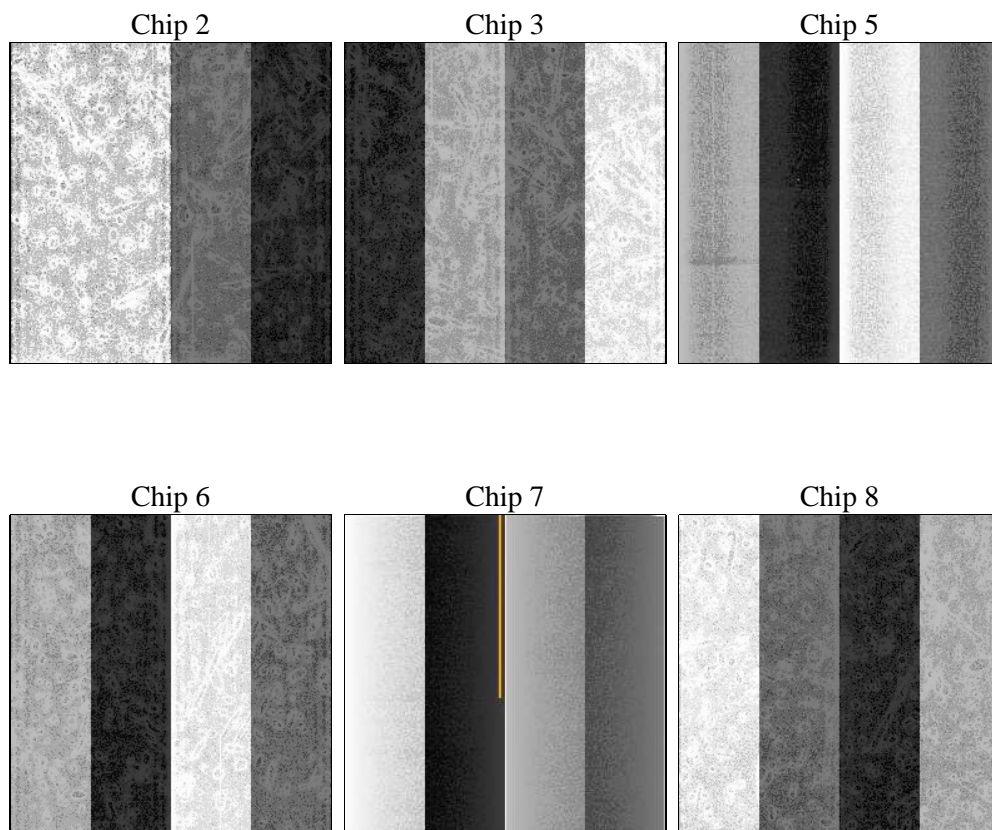
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8152.7477827966	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	8152.7888227999	Sum of GTIs [s]
date	2012-11-08T02:12:25	Date and time of file creation	ontime3	8152.6246627867	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	8152.7067427933	Sum of GTIs [s]
			ontime6	8152.66570279	Sum of GTIs [s]
			ontime7	8152.7477827966	Sum of GTIs [s]
			ontime8	8149.3426724374	Sum of GTIs [s]
			l1events	321661	Number of level 1 events

### 2.1.4 Events

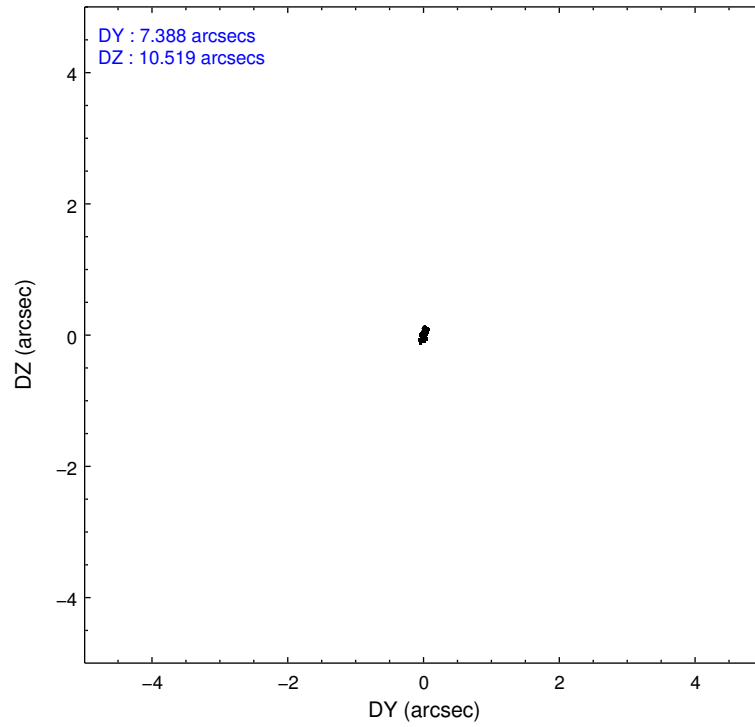
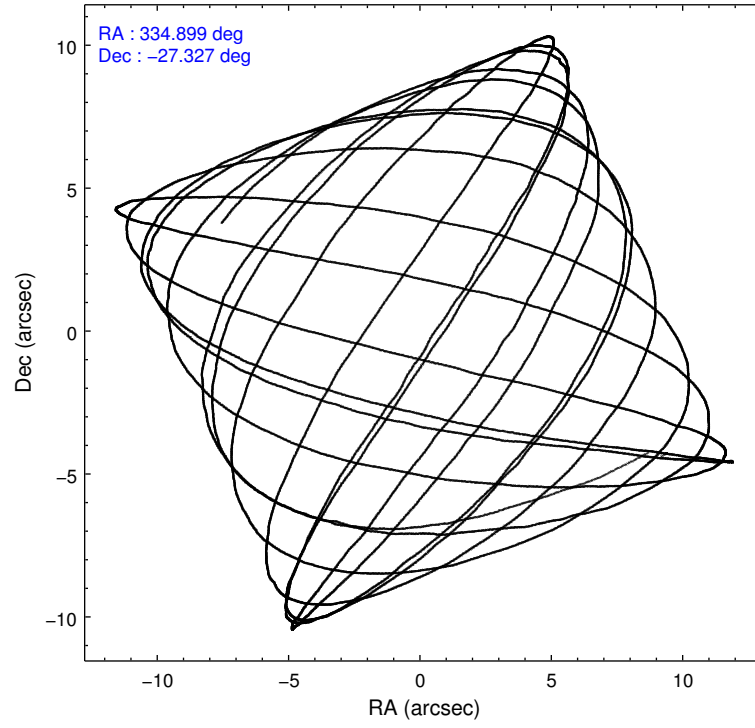
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	45111	42505	67232	44586	59584	62643	grade 0 events	3095	2993	3363	2806	2628	6475
rejected events	38340	35734	35991	37672	33863	44888		6%	7%	5%	6%	4%	10%
rejected %	84%	84%	53%	84%	56%	71%	grade 1 events	33	22	193	28	53	58
								0%	0%	0%	0%	0%	0%
							grade 2 events	1459	1525	9620	1701	5148	3251
								3%	3%	14%	3%	8%	5%
							grade 3 events	519	576	1318	553	2314	2345
								1%	1%	1%	1%	3%	3%
							grade 4 events	517	501	1345	513	2191	2155
								1%	1%	2%	1%	3%	3%
							grade 5 events	1747	1878	4996	1934	5653	2512
								3%	4%	7%	4%	9%	4%
							grade 6 events	1181	1186	15633	1348	13446	3562
								2%	2%	23%	3%	22%	5%
							grade 7 events	36560	33824	30764	35703	28151	42285
								81%	79%	45%	80%	47%	67%

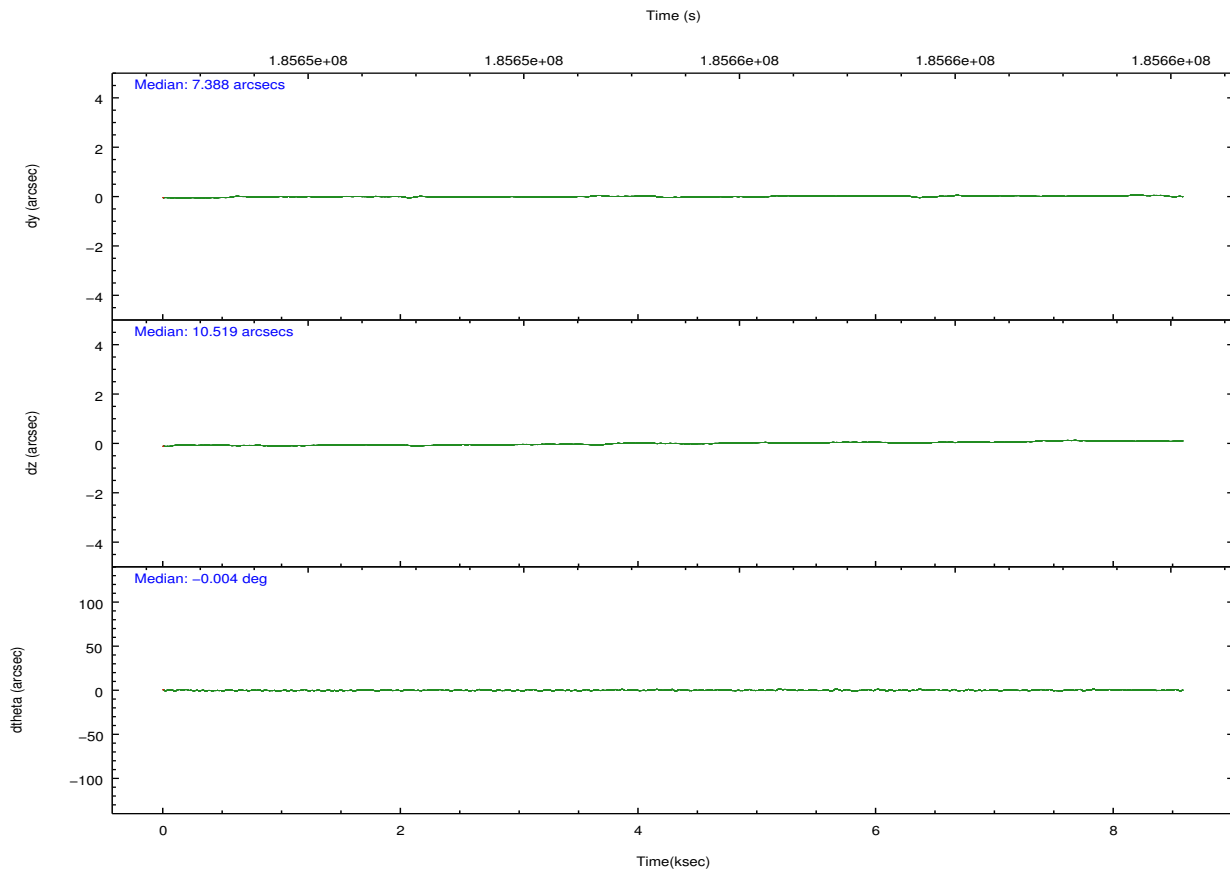
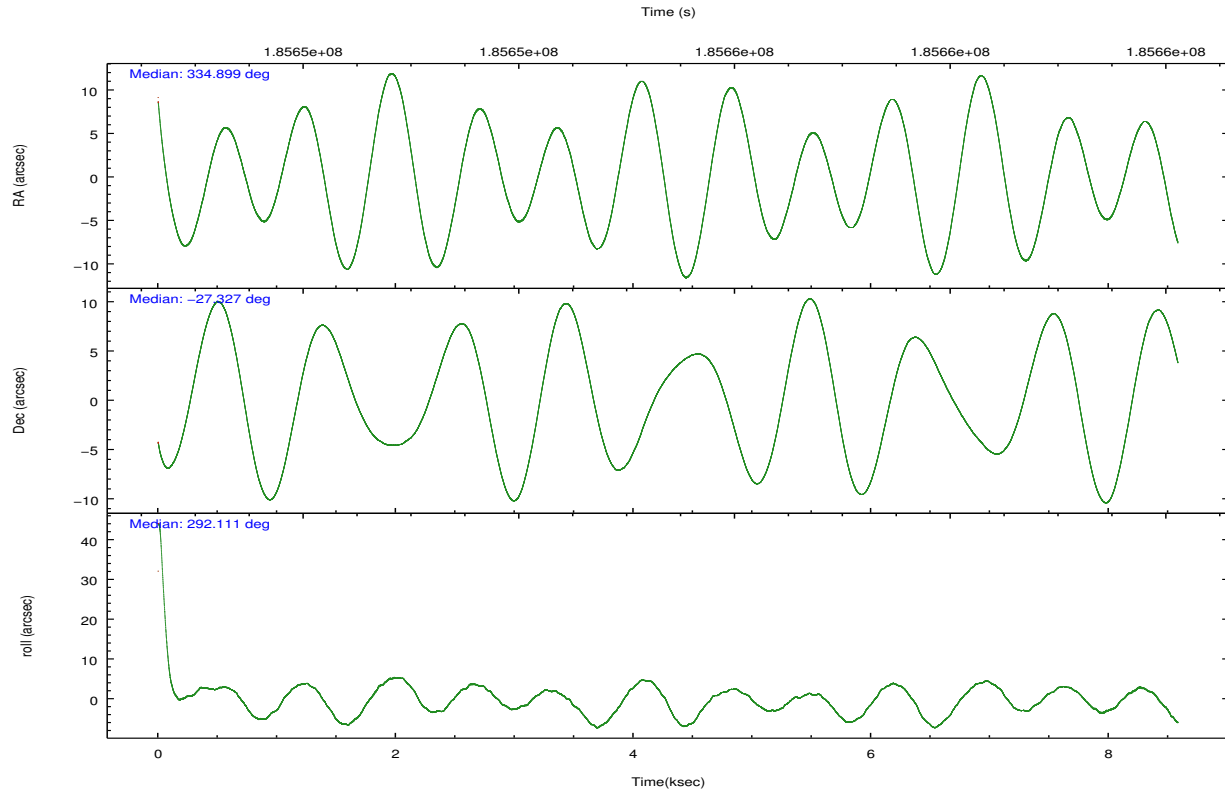


## 2.2 Compared Parameters

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	334.874902	334.8993502461888	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.310449	-27.32684746529927	Alternating exposures requested	N	N
[deg] Pointing Roll	291.951326	292.1192351963222	[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)	185651275.184000	185650728.87695			
Observation start date	2003-11-19T17:46:51	2003-11-19T17:38:48			
[s] Observation end time (MET)	185659675.184000	185660479.70237			
Observation end date	2003-11-19T20:06:51	2003-11-19T20:21:19			
Read mode	TIMED	TIMED			

## 2.3 Aspect



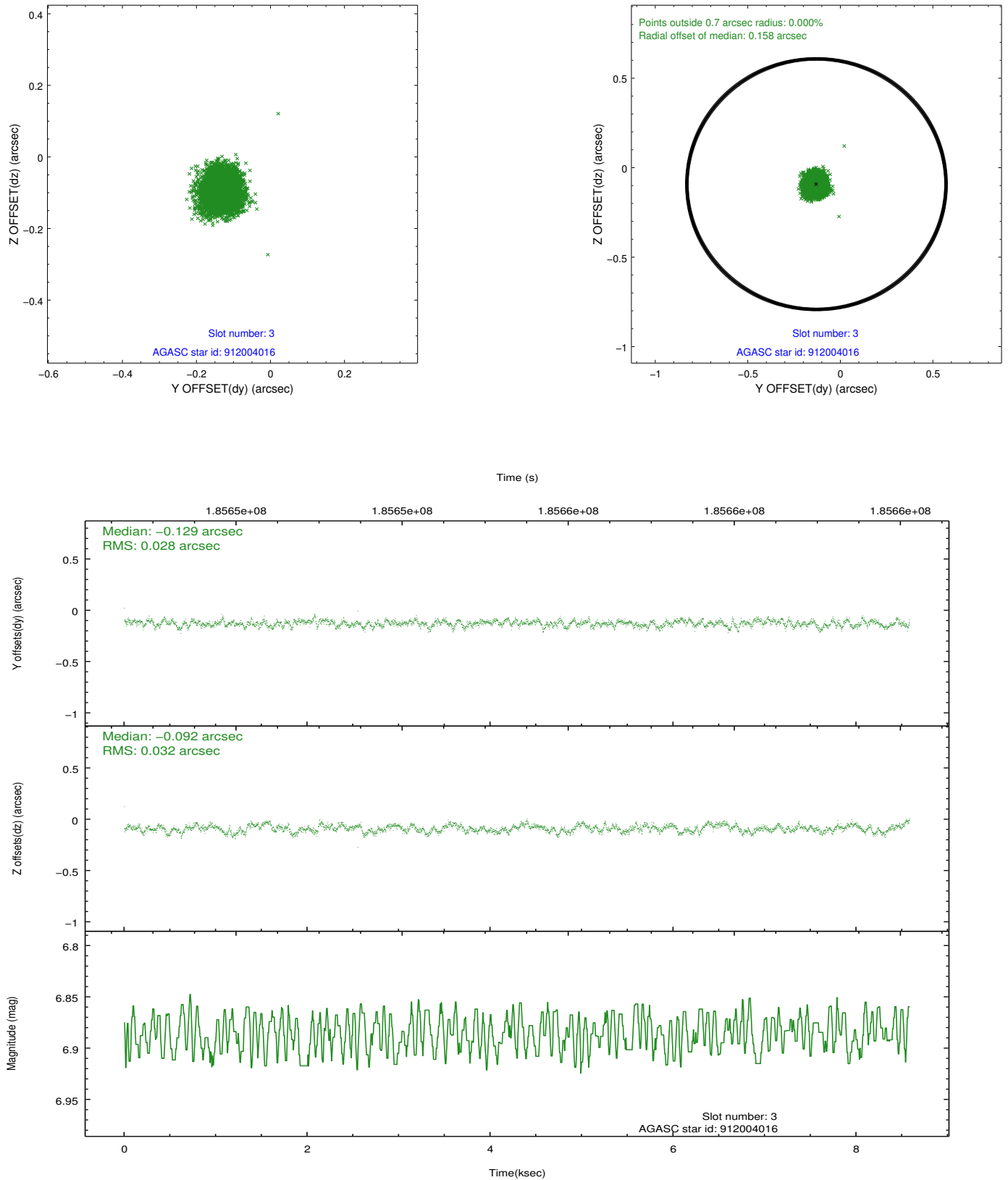


### Slot Statistics

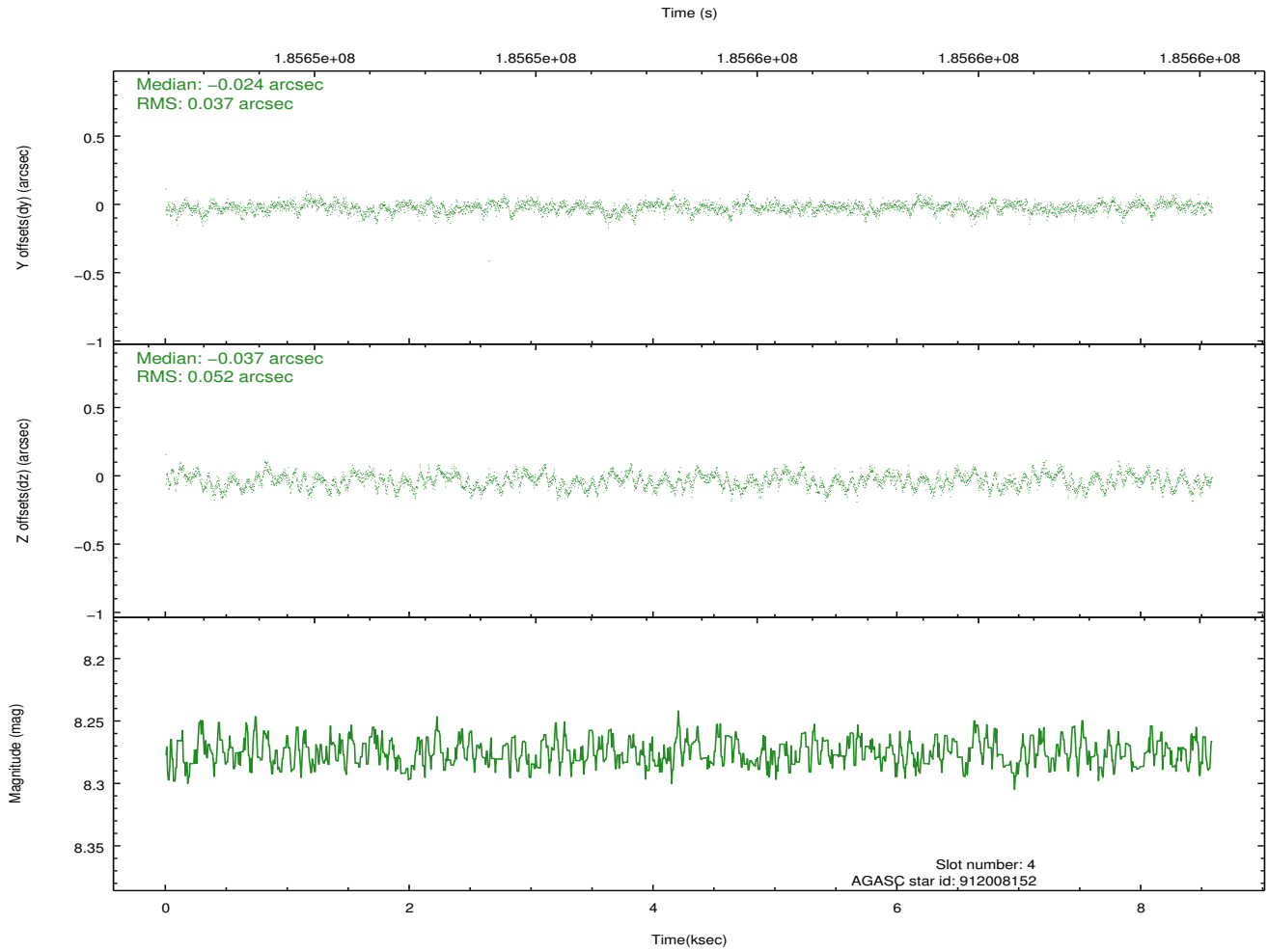
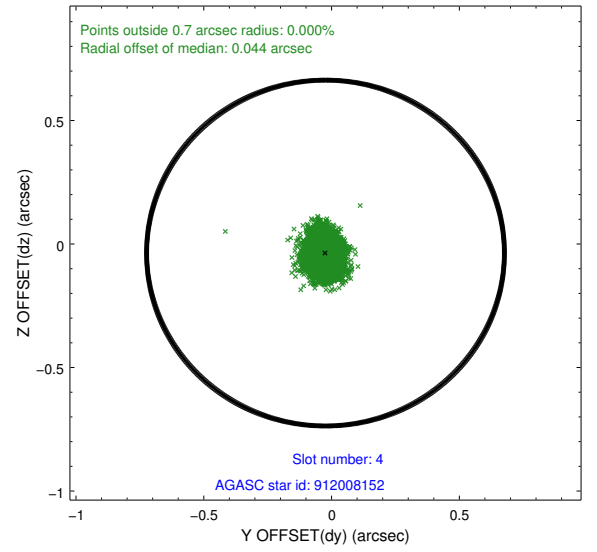
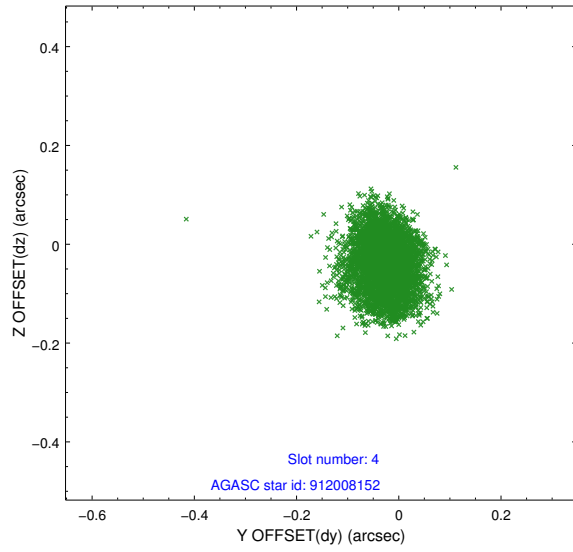
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	2094	0.013	-0.045	0.008	0.013	0.000000	0.000000	935.87	-1727.46
1	FID	ACIS-S-2	7.10	2094	-0.064	-0.007	0.006	0.010	0.000000	0.000000	-759.75	-1732.61
2	FID	ACIS-S-4	7.20	2094	0.026	0.057	0.006	0.010	0.000000	0.000000	2152.86	176.12
3	GUIDE	912004016	6.89	4188	-0.129	-0.092	0.045	0.073	334.322948	-27.389925	-389.67	-1744.84
4	GUIDE	912008152	8.28	4185	-0.024	-0.037	0.069	0.110	334.601001	-27.294801	-378.49	-792.54
5	GUIDE	912927016	7.65	4187	-0.053	-0.150	0.053	0.085	334.950017	-27.388764	351.59	116.99
6	GUIDE	913311128	9.32	4185	0.131	0.312	0.084	0.136	335.712239	-27.584864	1923.90	2106.05
7	GUIDE	913310352	9.61	4187	0.080	-0.031	0.112	0.182	335.178898	-27.920777	2401.51	76.01

## 2.4 Star Slots

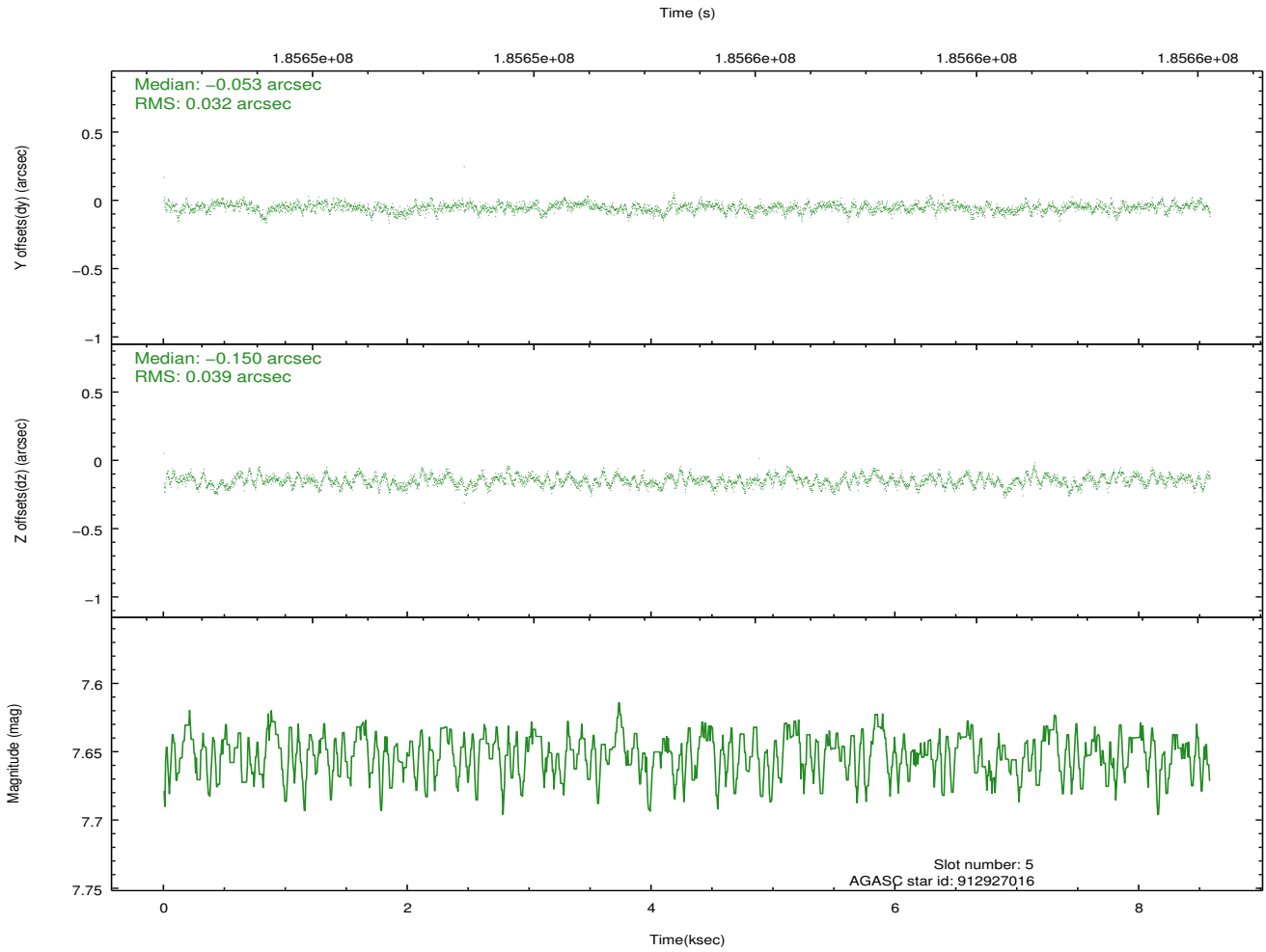
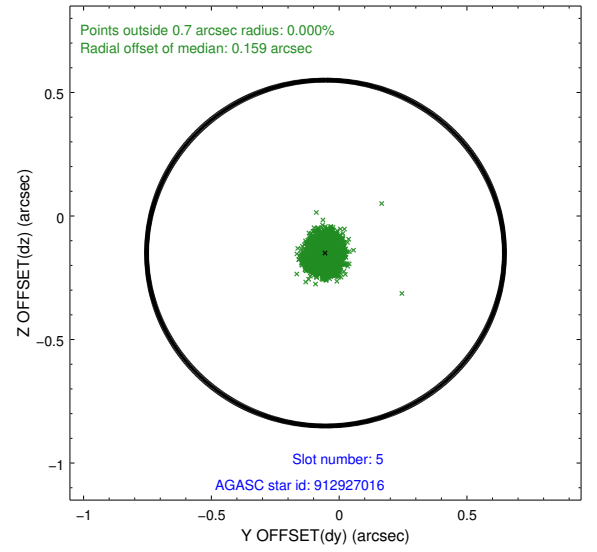
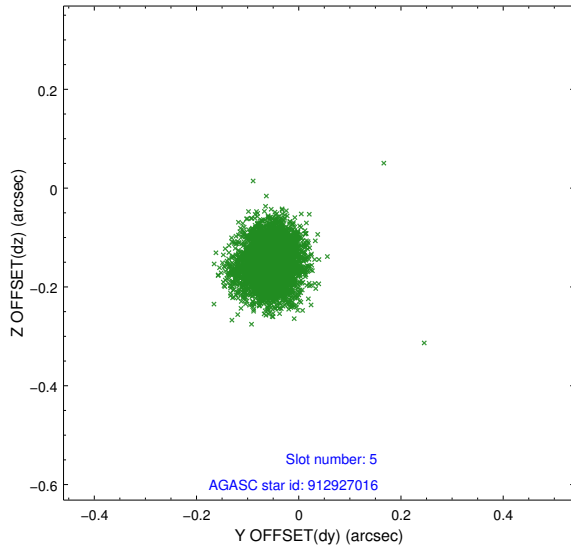
### 2.4.1 Slot 3



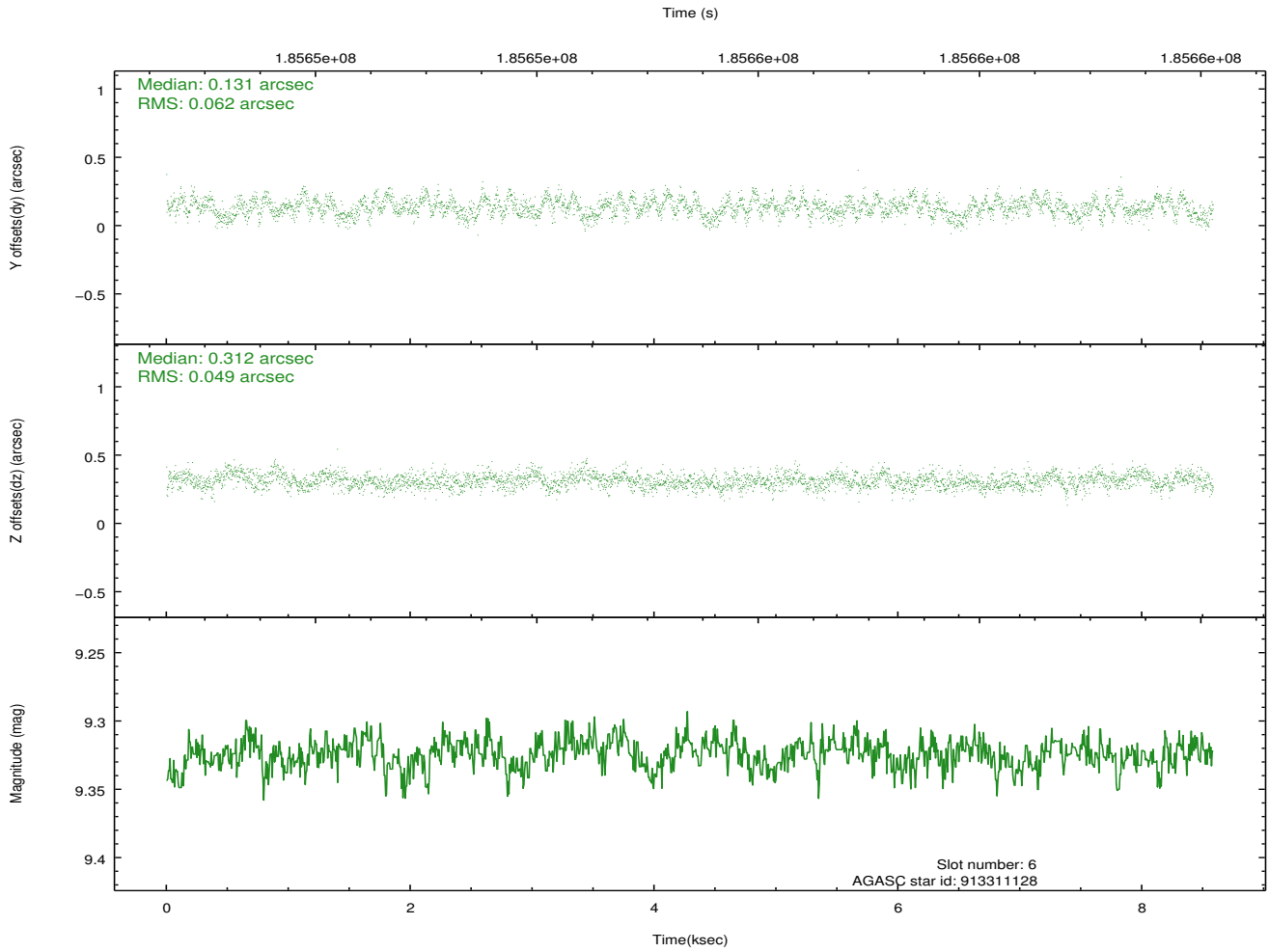
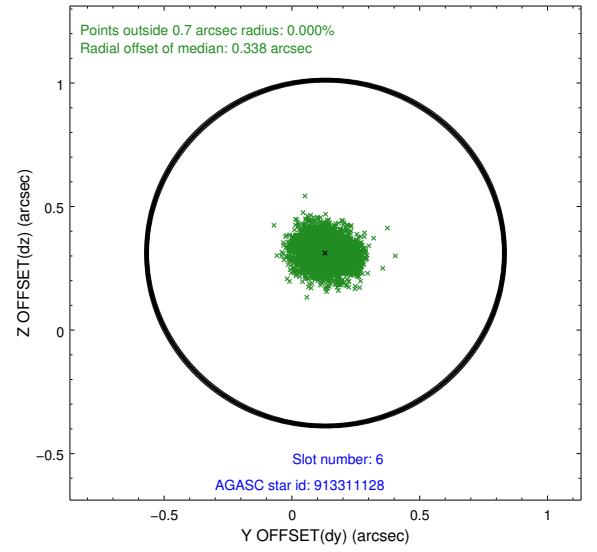
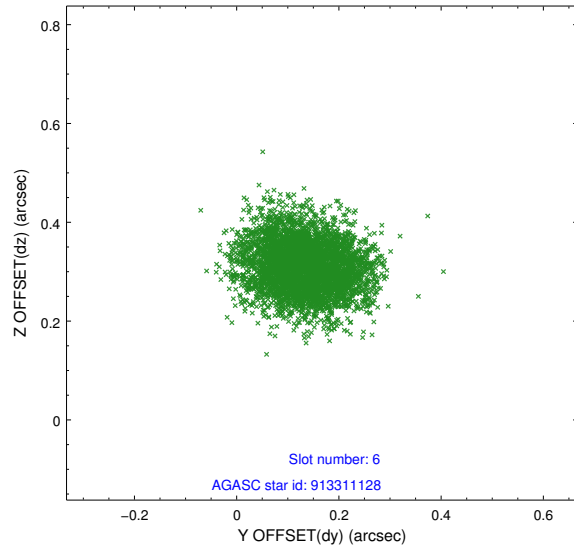
## 2.4.2 Slot 4



### 2.4.3 Slot 5

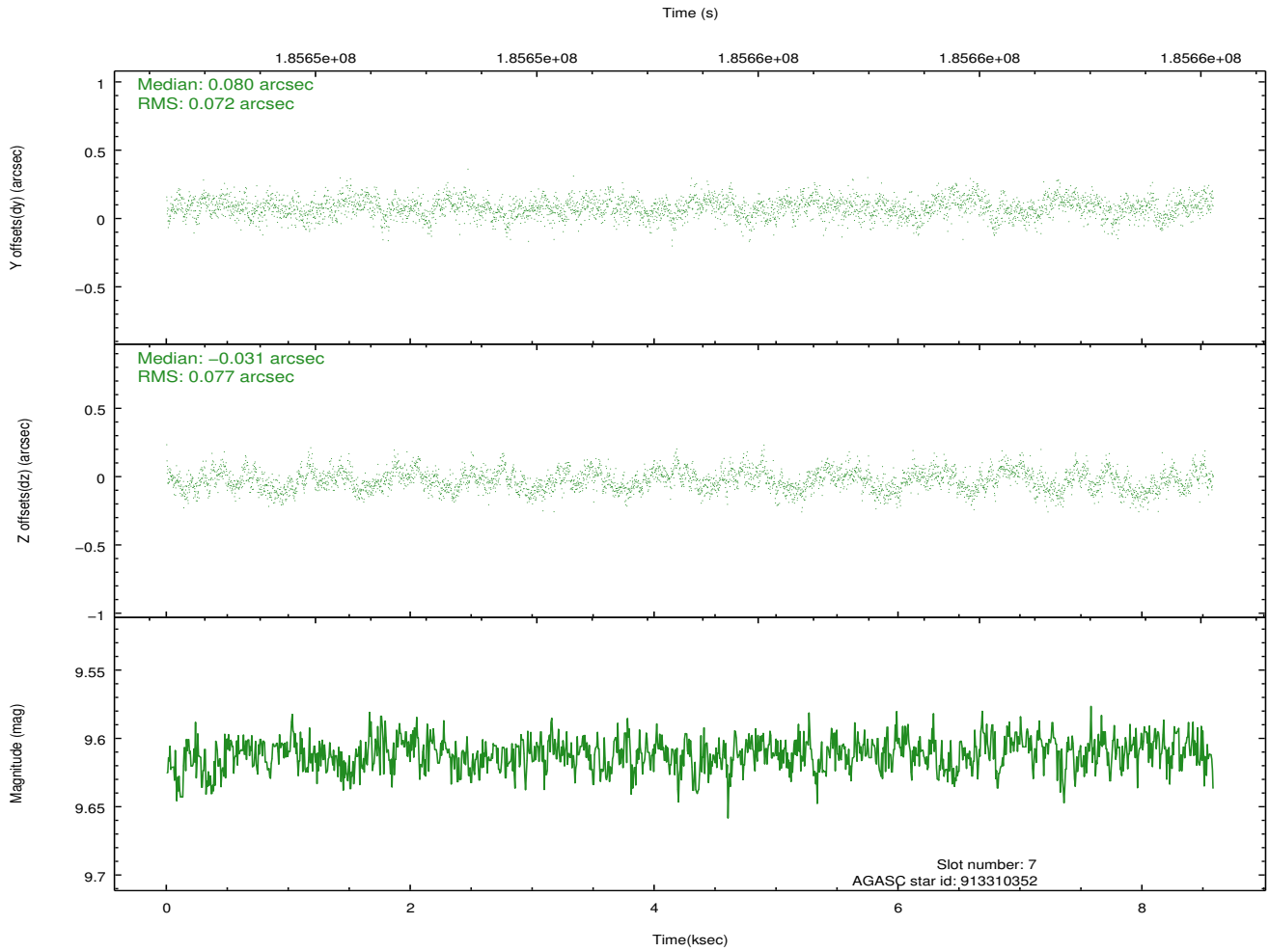
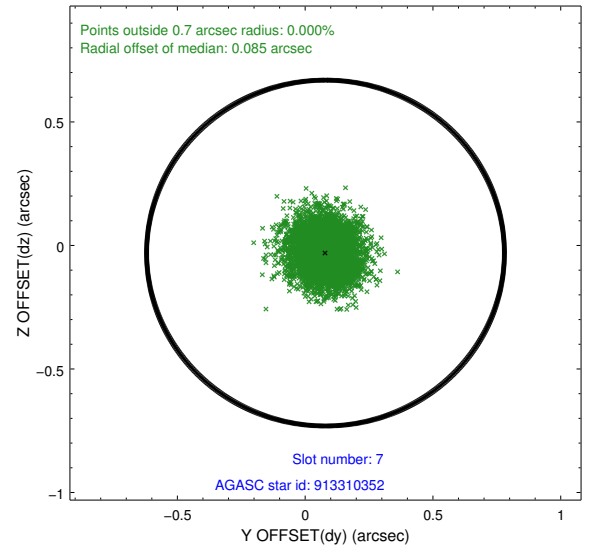
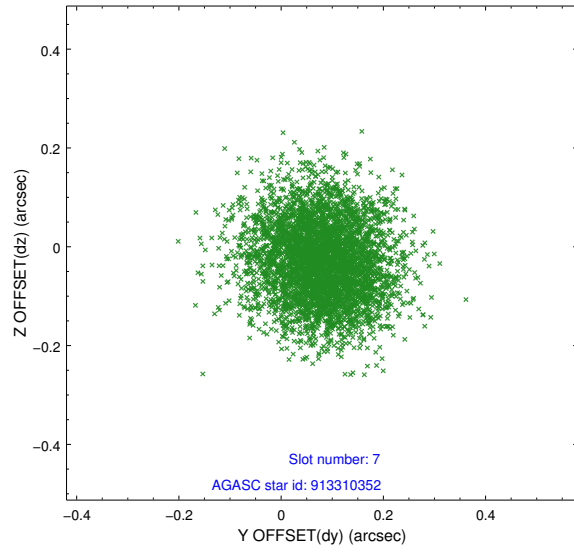


## 2.4.4 Slot 6



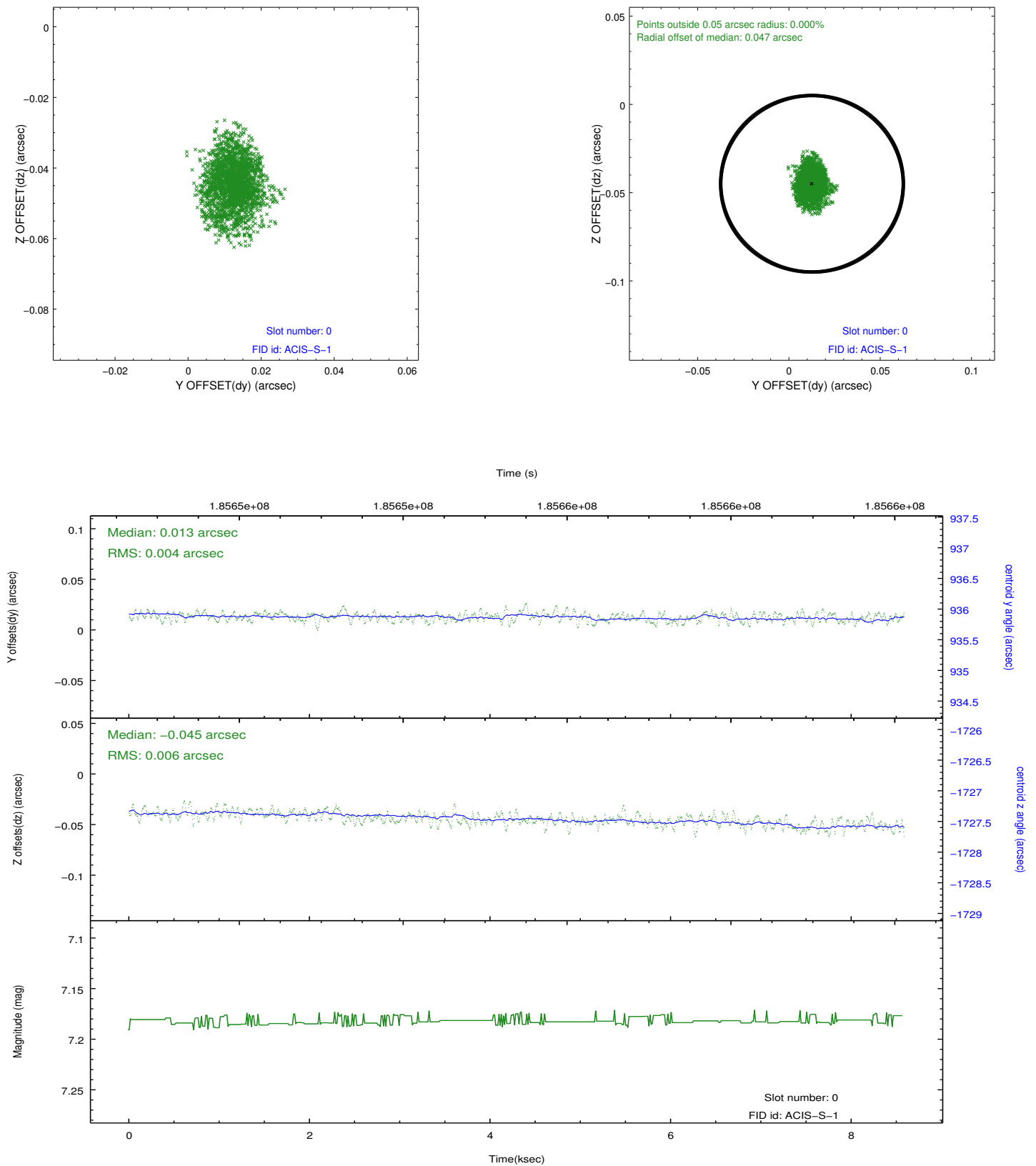


## 2.4.5 Slot 7

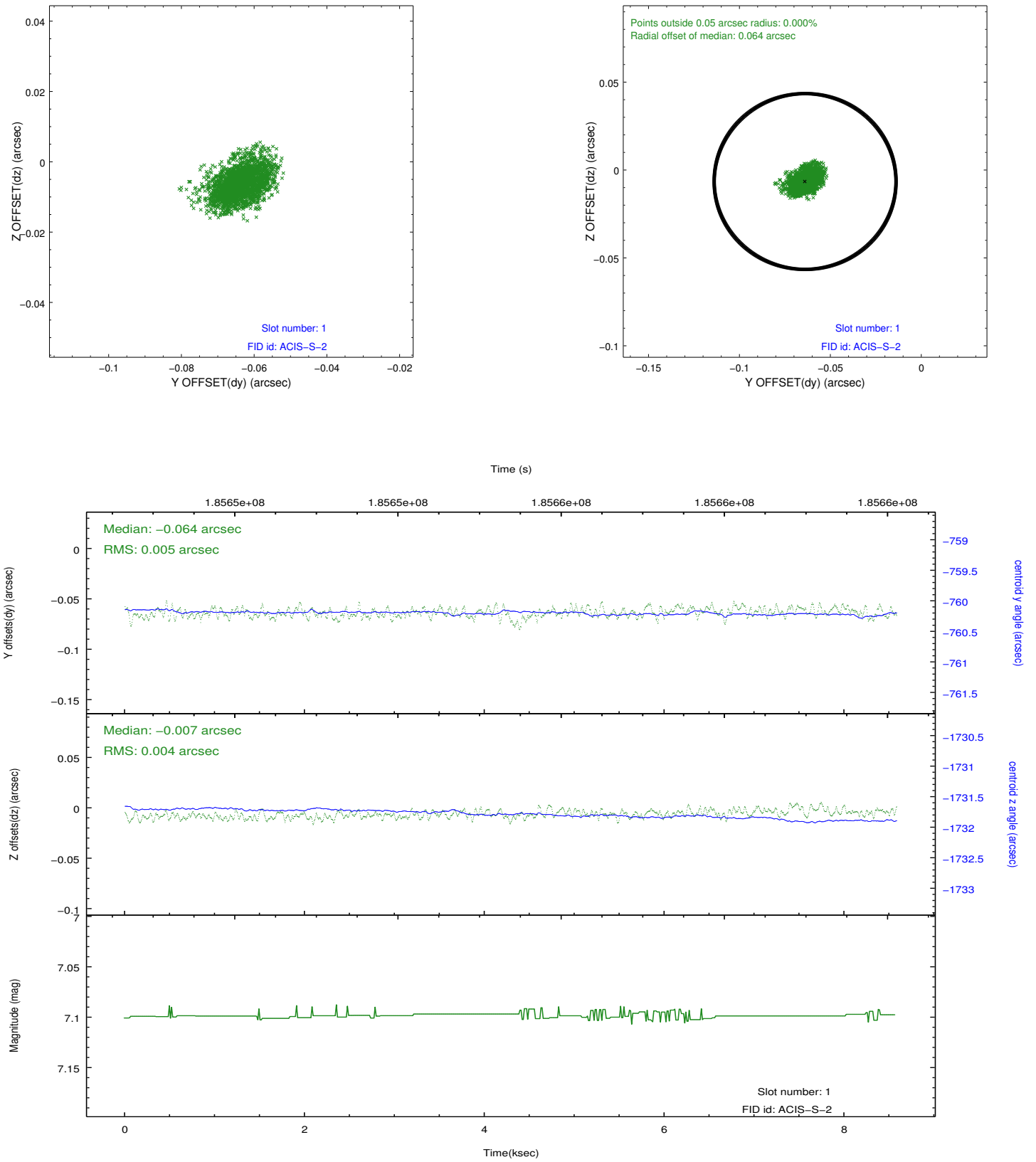


## 2.5 FID Slots

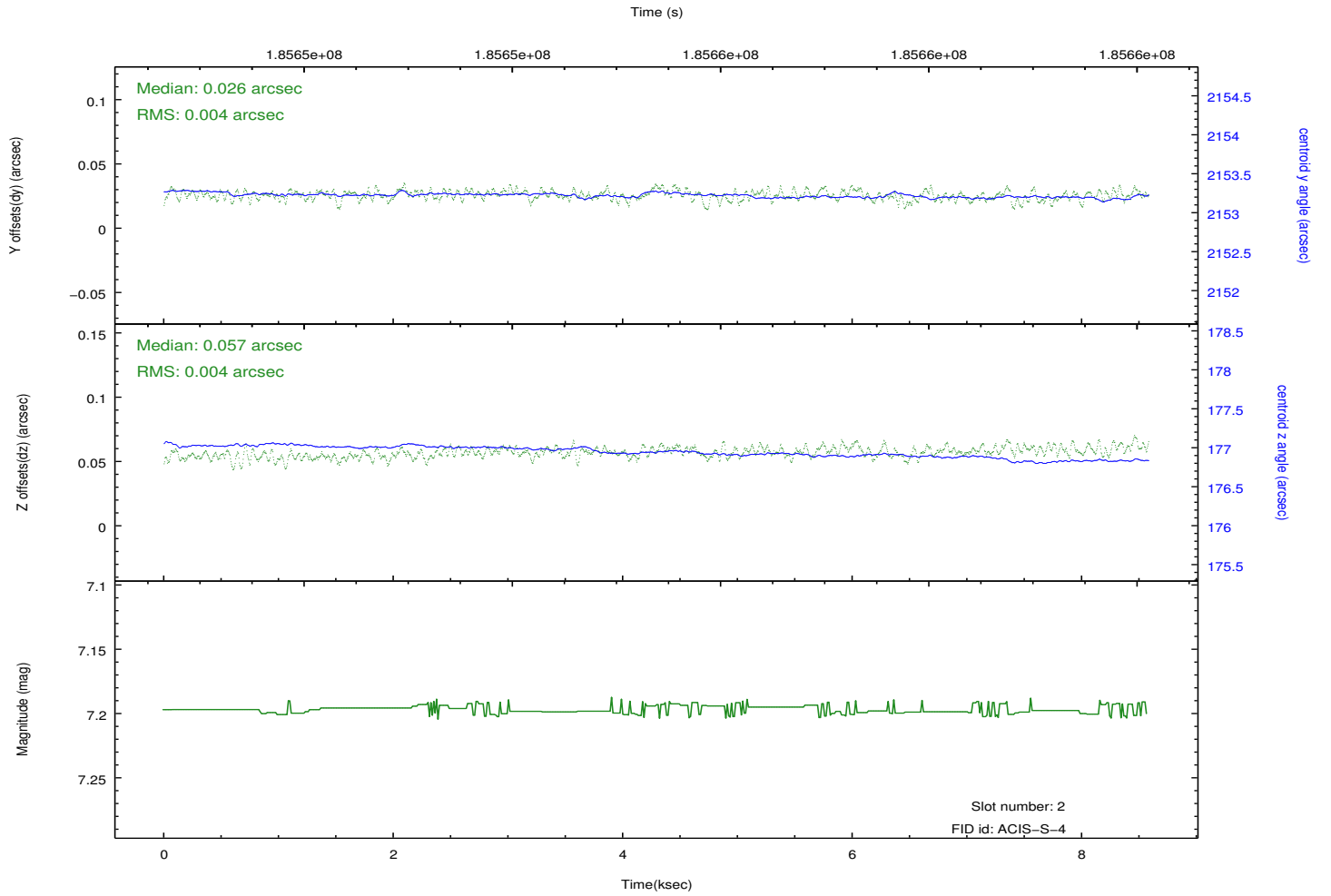
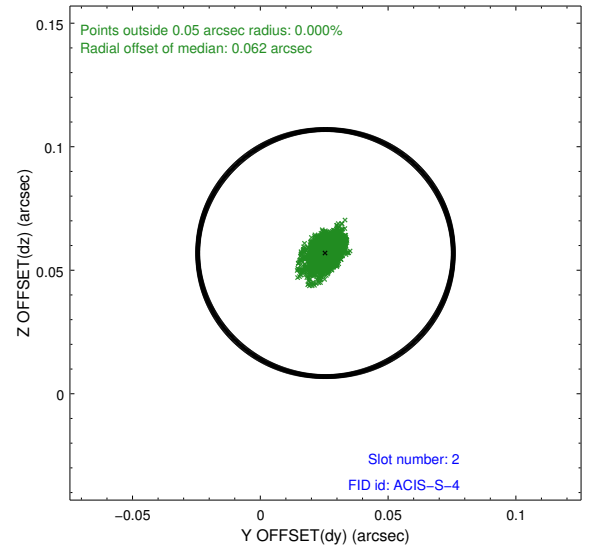
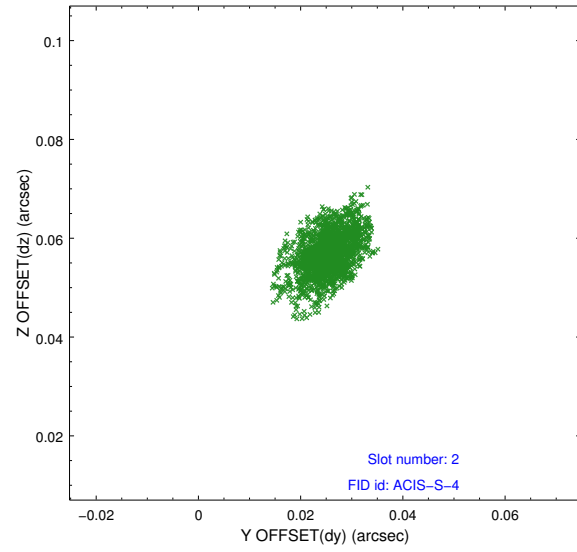
### 2.5.1 Slot 0



## 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	8.153

### A.2 Comments