

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7753 - L2 Version 3  
Chandra X-Ray Center

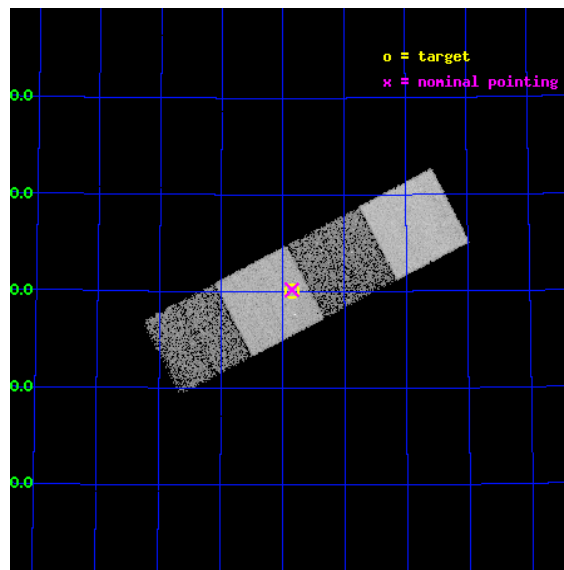
L2 Processing Date : Apr 19 2012

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# 1 Front

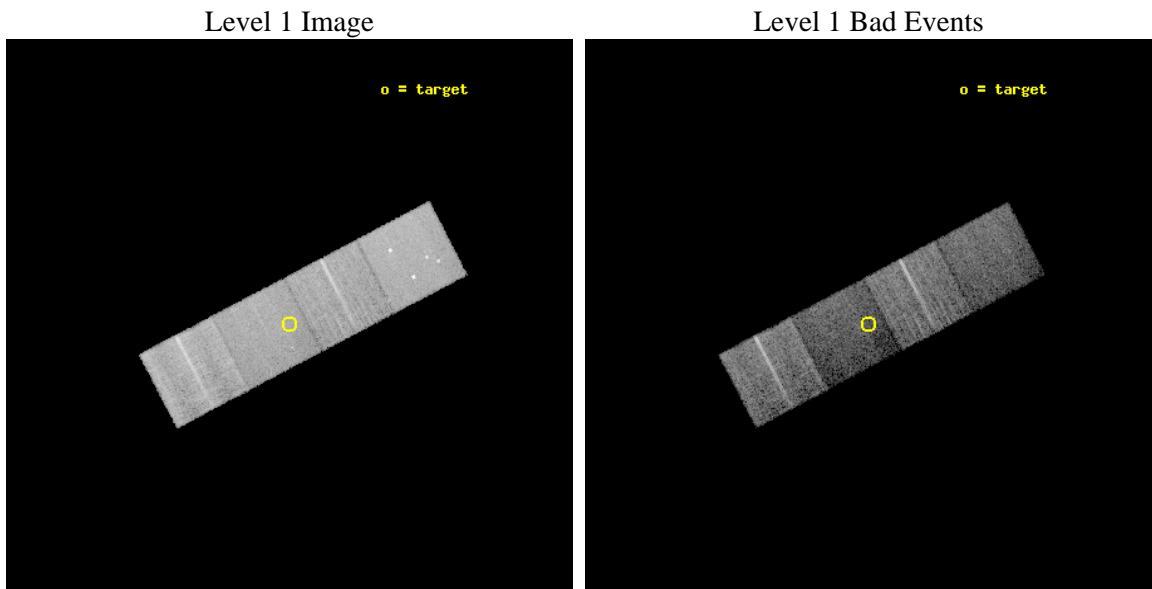
seq_num	701421	Sequence number
obs_id	7753	Observation id
title	Probing heavy obscuration in optically selected Type 2 quasar candidates	Proposal title
observer	Dr Cristian Vignali	Principal investigator
object	SDSS J103951.49+643004.2	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	159.964583	Observer's specified target RA [deg]
dec_targ	64.501167	Observer's specified target Dec [deg]
ra_nom	159.96355692723	Nominal RA [deg]
dec_nom	64.503205691672	Nominal Dec [deg]
roll_nom	152.366110807	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10042.757295728	Sum of GTIs [s]
livetime	9911.5412782887	Livetime [s]
ontime5	10042.716255724	Sum of GTIs [s]
ontime6	10042.675215721	Sum of GTIs [s]
ontime7	10042.757295728	Sum of GTIs [s]
ontime8	10039.493205369	Sum of GTIs [s]
l2events	87931	Number of level 2 events



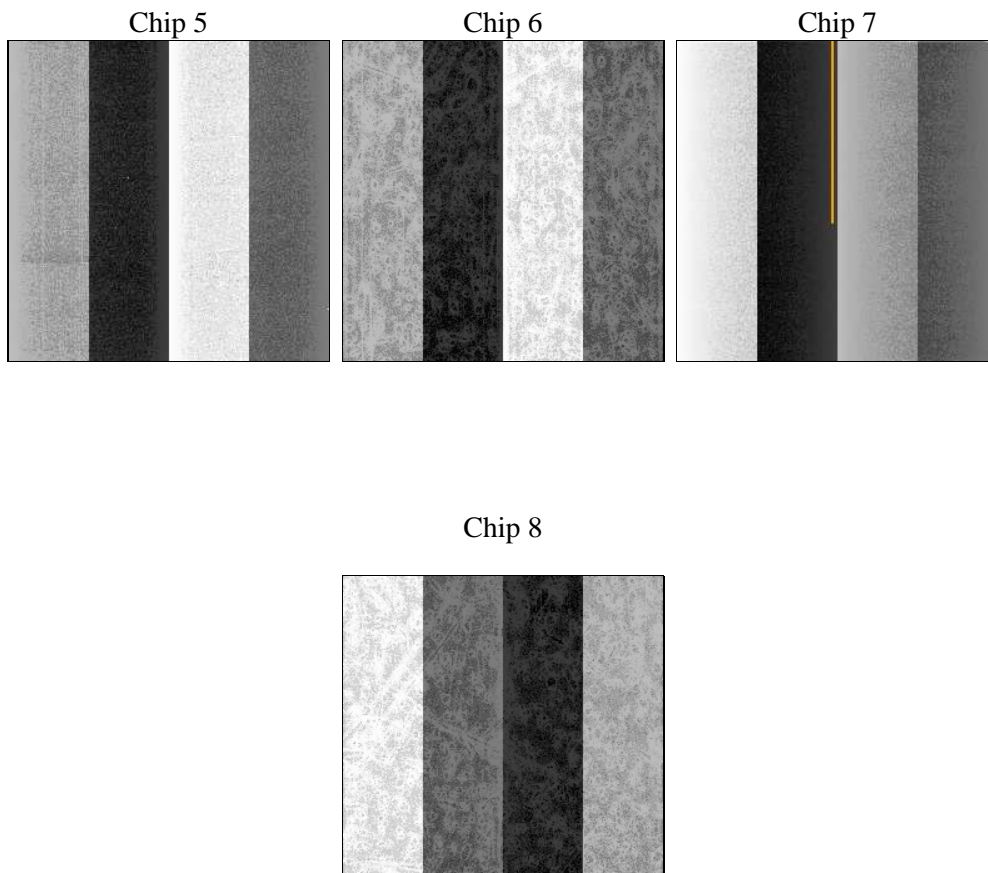
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	10042.757295728	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime5	10042.716255724	Sum of GTIs [s]
date	2012-04-19T14:15:46	Date and time of file creation	ontime6	10042.675215721	Sum of GTIs [s]
revision	3	Processing version of data	ontime7	10042.757295728	Sum of GTIs [s]
			ontime8	10039.493205369	Sum of GTIs [s]
			l1events	315609	Number of level 1 events

### 2.1.4 Events

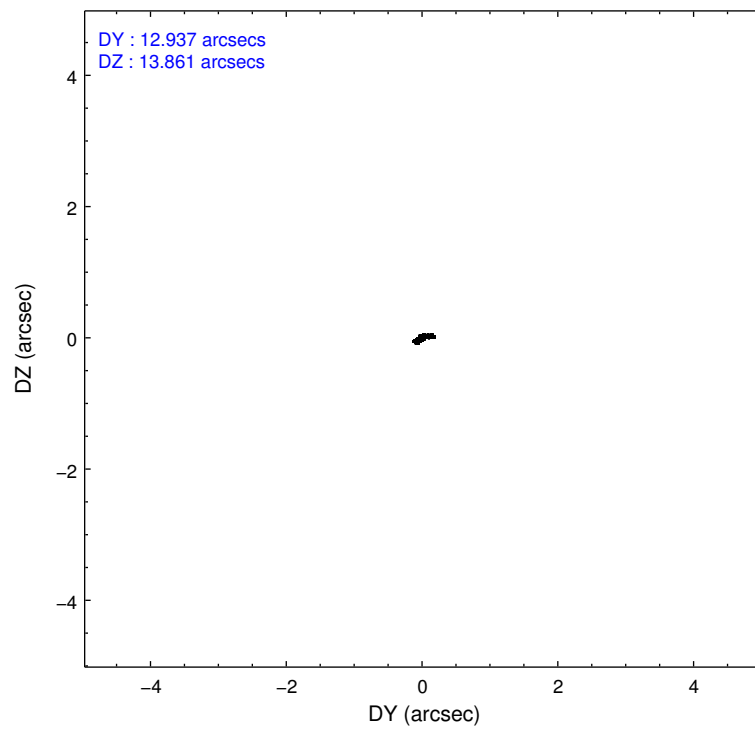
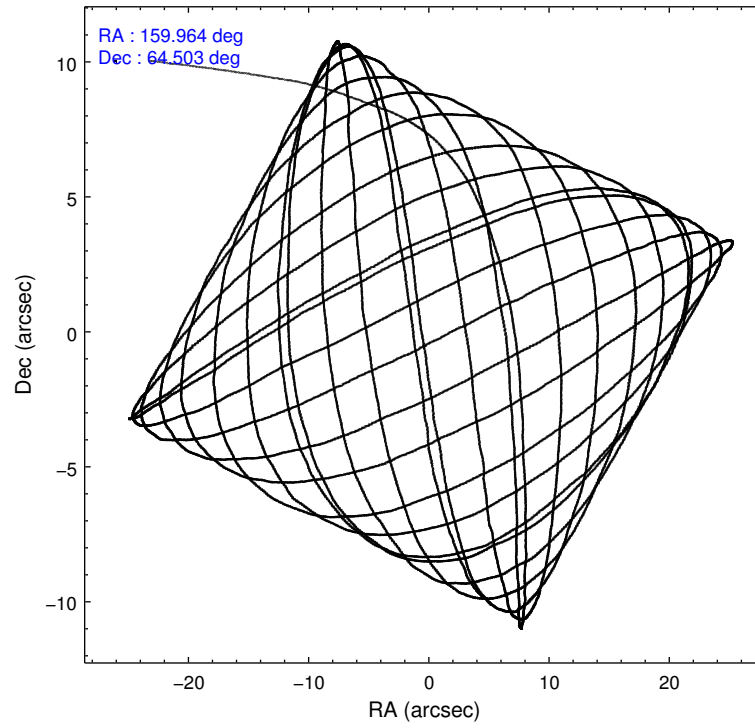
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	90857	71246	66729	86777
rejected events	42093	63954	33982	64586
rejected %	46%	89%	50%	74%

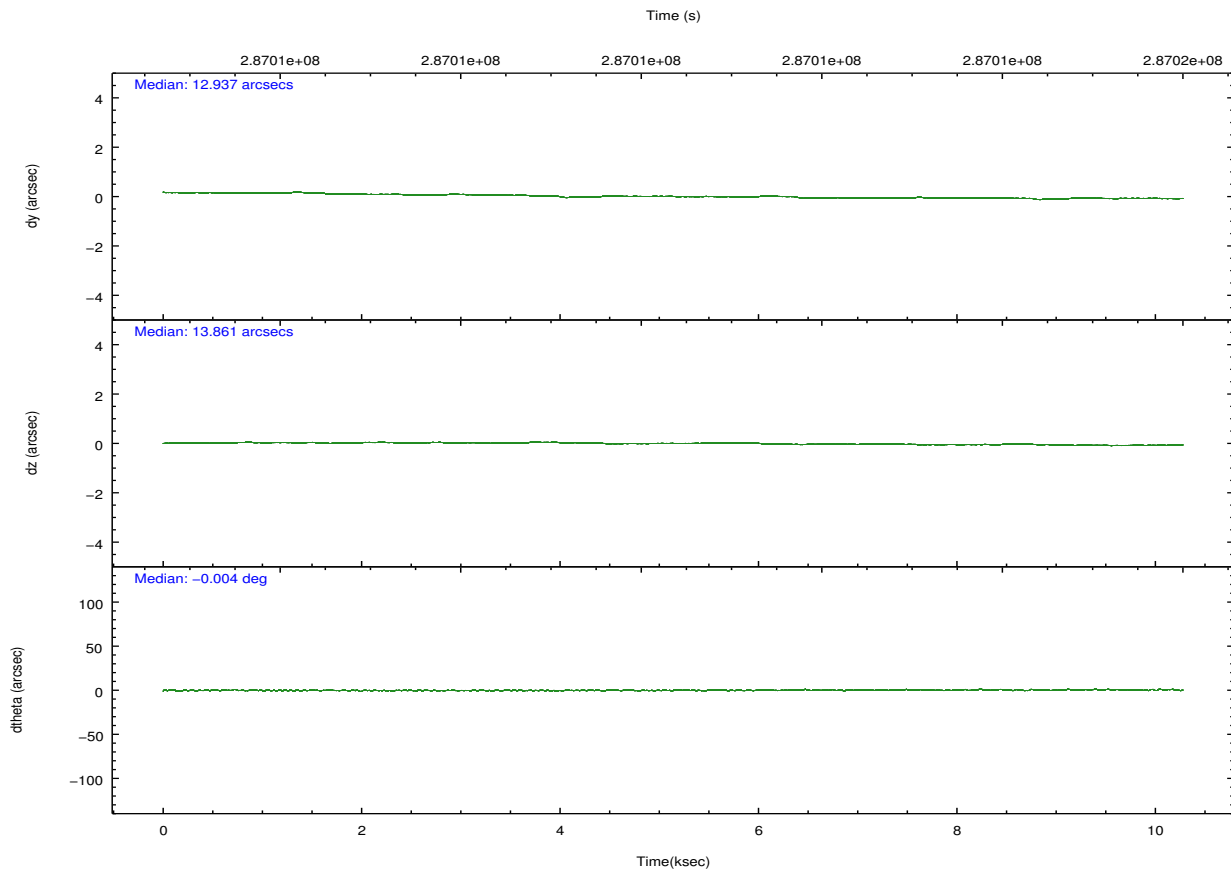
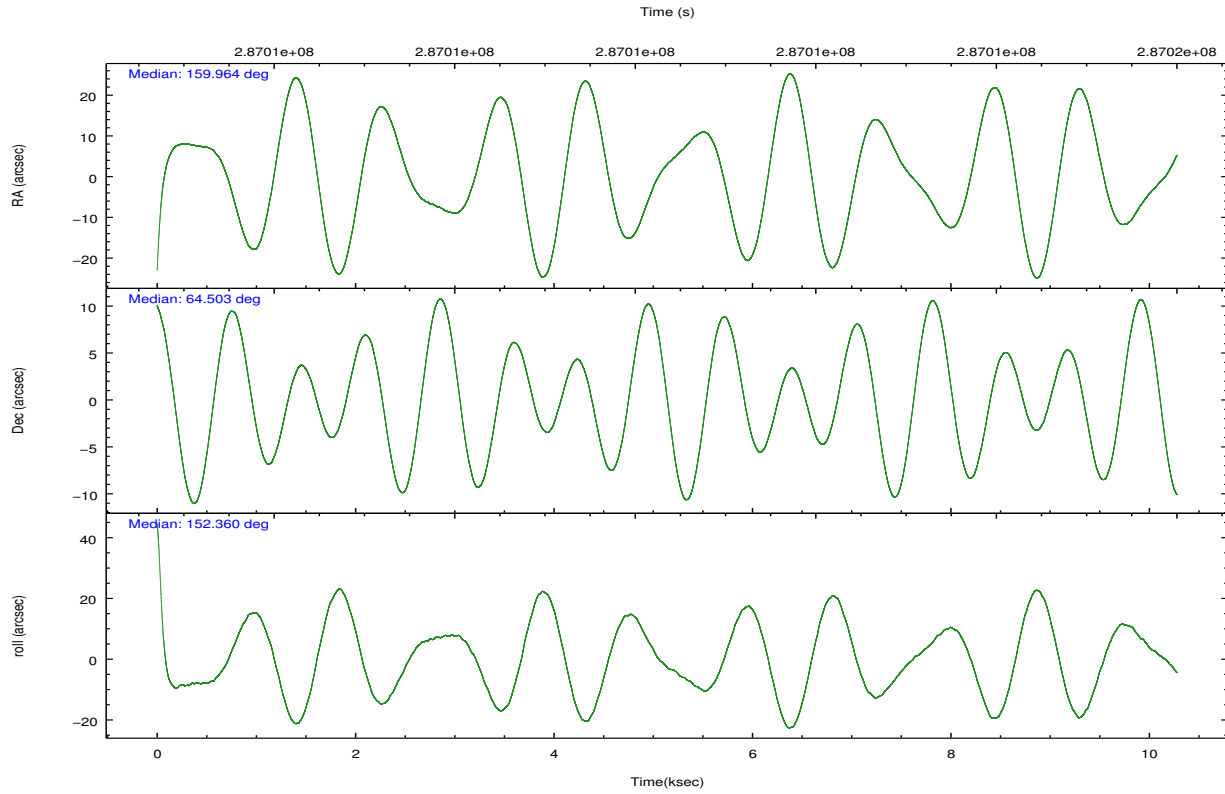
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	7371	2634	3470	6149
	8%	3%	5%	7%
grade 1 events	201	32	85	69
	0%	0%	0%	0%
grade 2 events	13879	1629	6862	5147
	15%	2%	10%	5%
grade 3 events	2029	833	3131	2557
	2%	1%	4%	2%
grade 4 events	2045	780	3099	2400
	2%	1%	4%	2%
grade 5 events	7214	2540	7303	3819
	7%	3%	10%	4%
grade 6 events	23473	1422	16199	5946
	25%	1%	24%	6%
grade 7 events	34645	61376	26580	60690
	38%	86%	39%	69%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	160.026983	159.9635569272275	Subarray requested	NONE	NONE
[deg] Pointing Dec	64.504694	64.50320569167224	Alternating exposures requested	N	N
[deg] Pointing Roll	152.152199	152.3661108070008	[s] Primary exposure time	0.000000	3.1
[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)	287005493.184000	287004578.49766			
Observation start date	2007-02-04T19:43:48	2007-02-04T19:29:38			
[s] Observation end time (MET)	287015493.184000	287016106.6732			
Observation end date	2007-02-04T22:30:28	2007-02-04T22:41:46			
Read mode	TIMED	TIMED			

## 2.3 Aspect



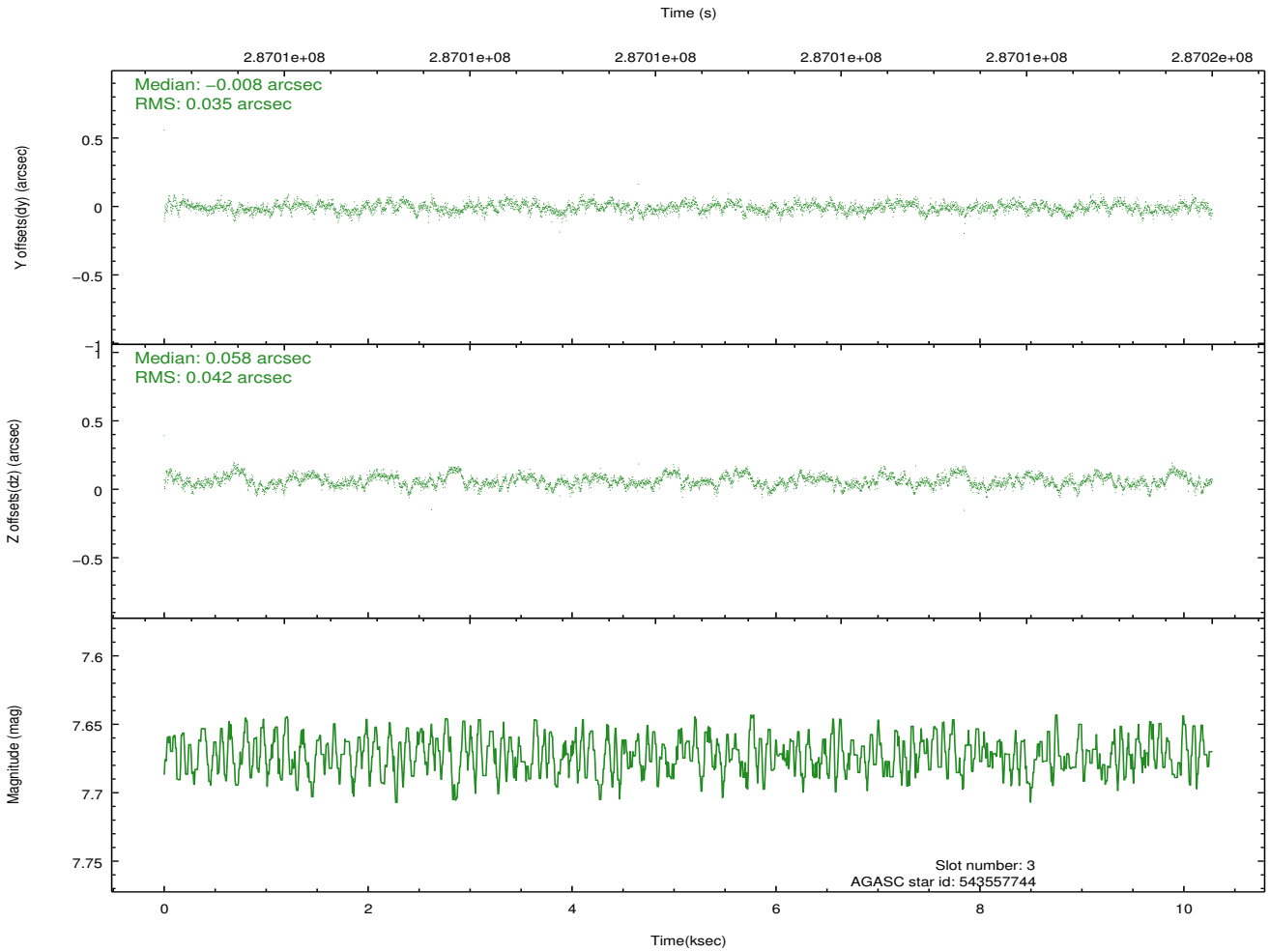
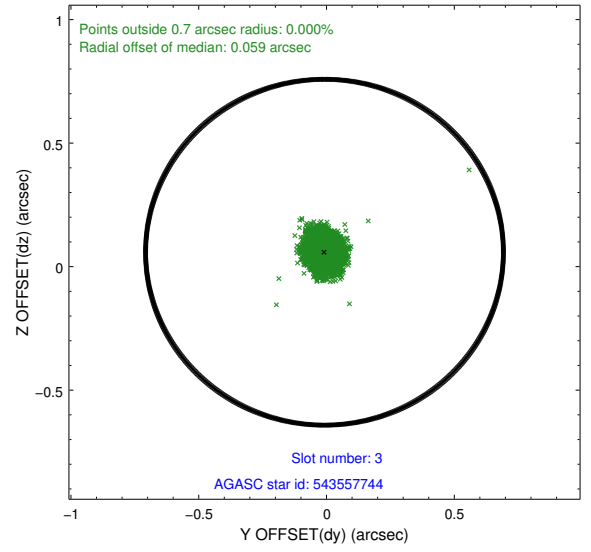
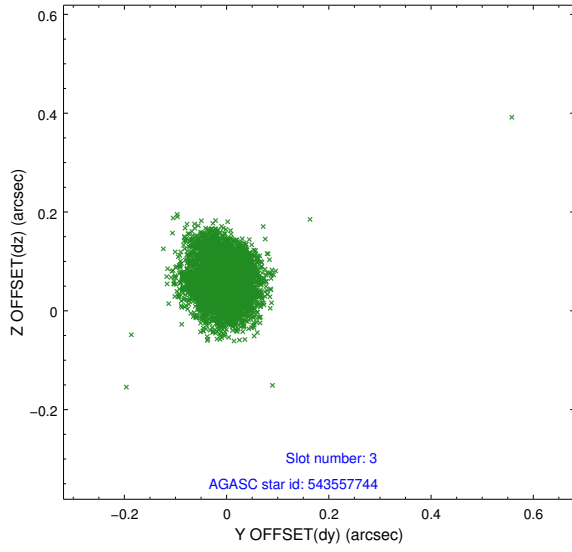


### Slot Statistics

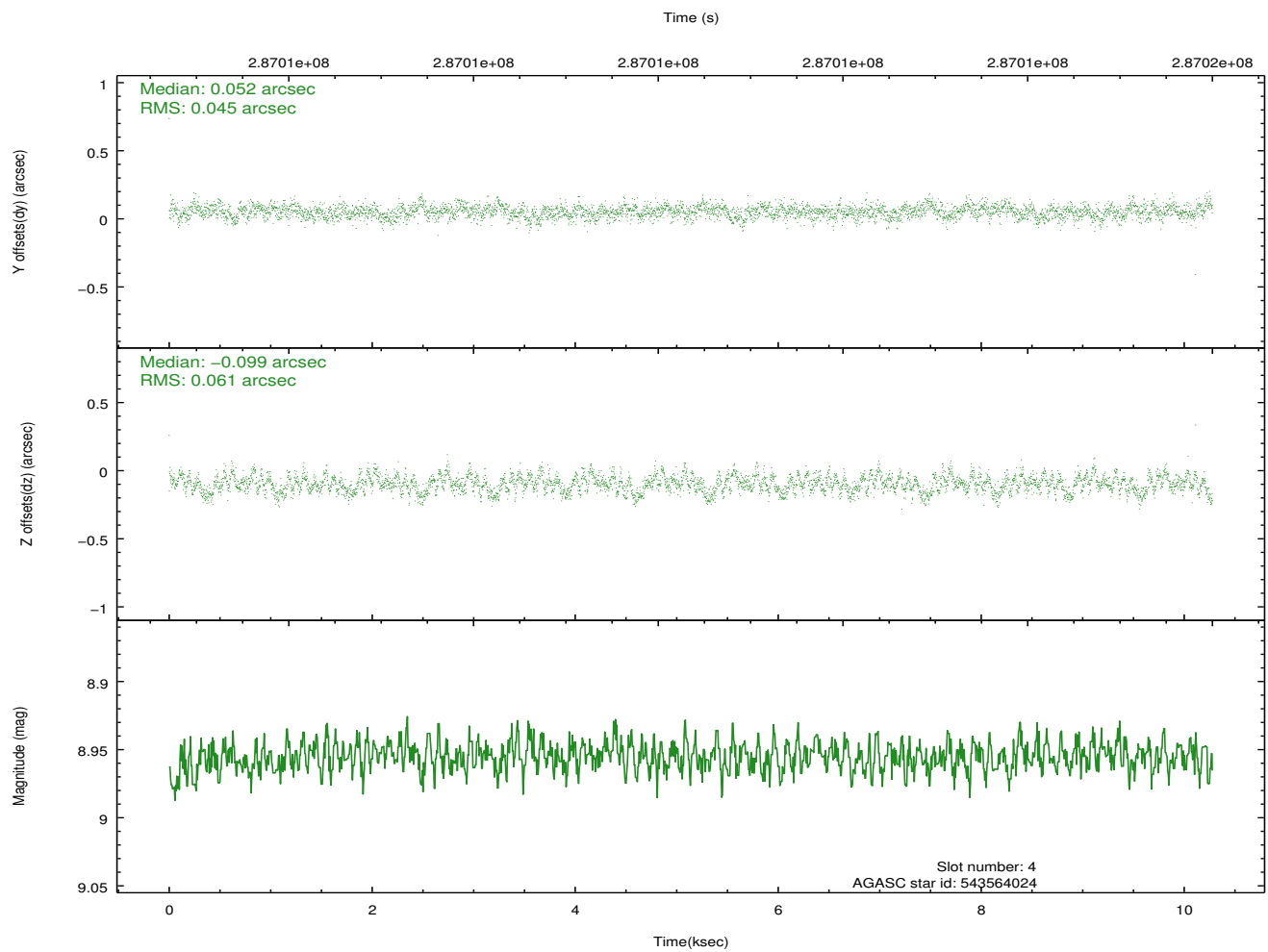
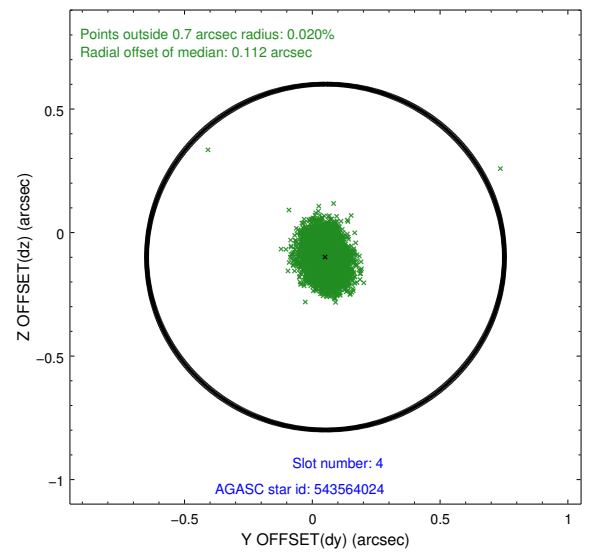
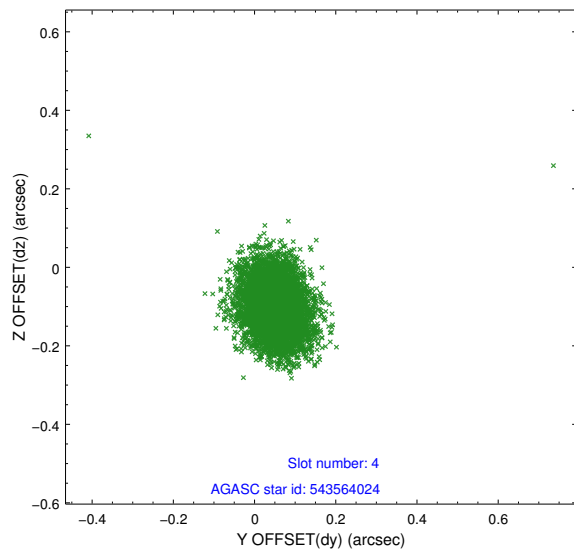
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	2507	-0.035	-0.058	0.008	0.012	0.000000	0.000000	-765.90	-1735.26
1	FID	ACIS-S-4	7.20	2506	0.168	0.033	0.008	0.014	0.000000	0.000000	2147.35	172.79
2	FID	ACIS-S-5	7.23	2507	-0.164	0.034	0.007	0.012	0.000000	0.000000	-1818.21	167.04
3	GUIDE	543557744	7.67	5014	-0.008	0.058	0.057	0.091	159.538147	64.970298	1442.98	-1136.42
4	GUIDE	543564024	8.96	5011	0.052	-0.099	0.080	0.130	159.193644	64.343718	882.19	1111.58
5	GUIDE	543689016	8.17	5014	0.004	0.034	0.063	0.107	161.294791	64.897907	-1041.39	-2172.52
6	GUIDE	543690064	8.42	5012	0.115	-0.066	0.062	0.101	160.645901	63.986318	-1733.23	1189.17
7	GUIDE	543556648	7.95	5012	-0.163	0.082	0.093	0.152	158.874274	64.856635	2157.96	-310.04

## 2.4 Star Slots

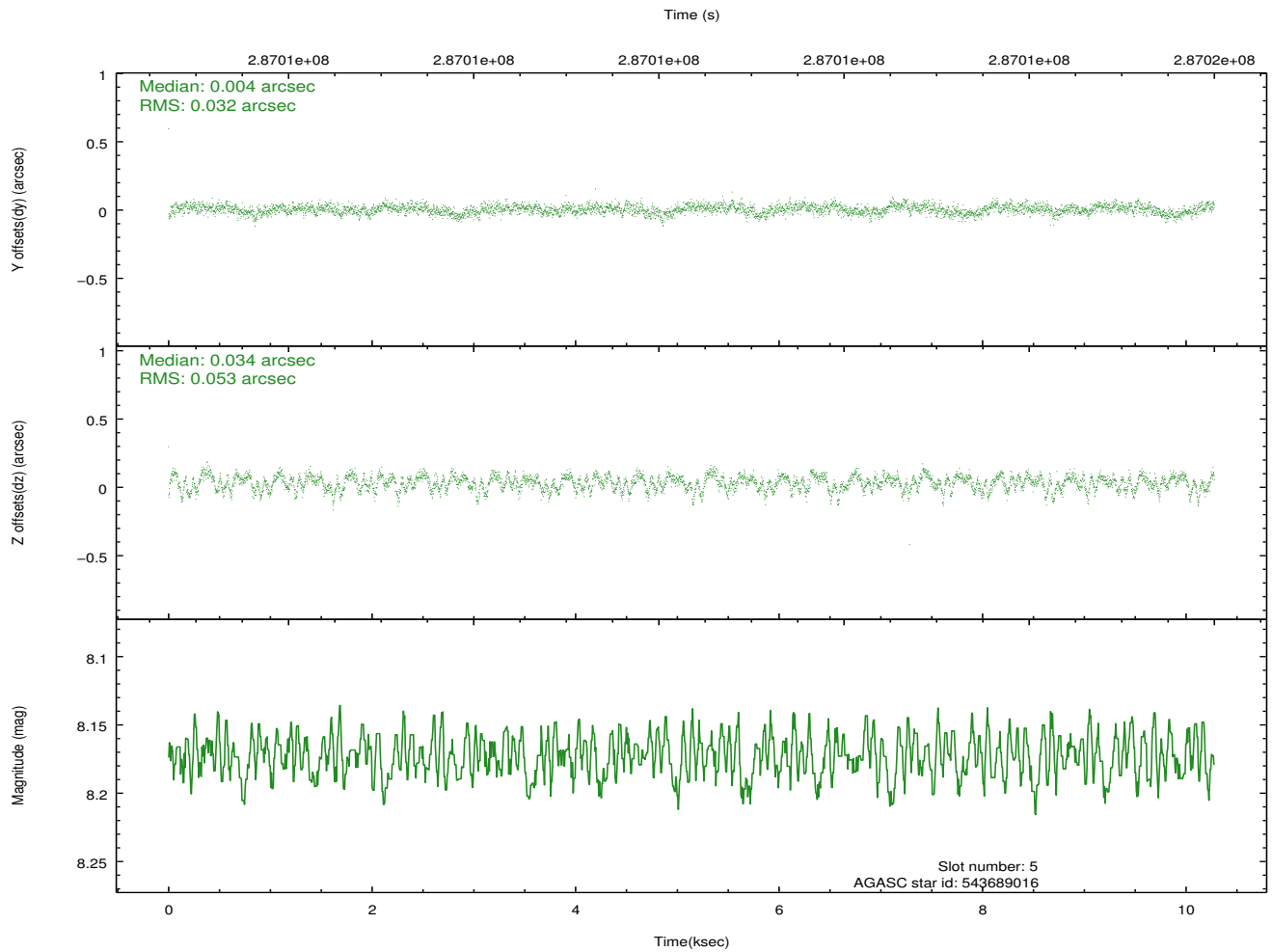
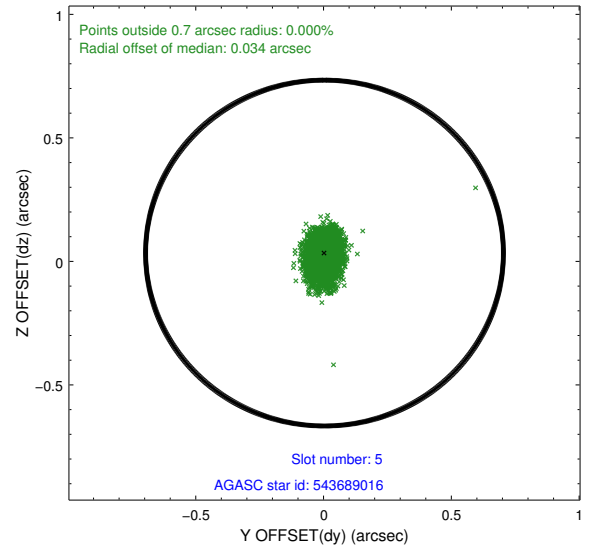
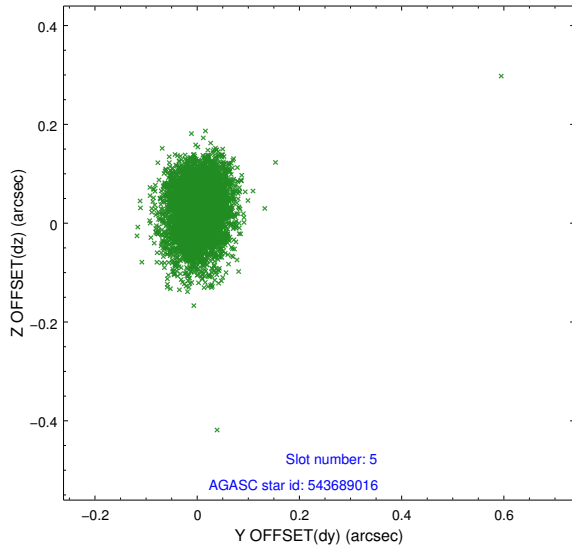
### 2.4.1 Slot 3



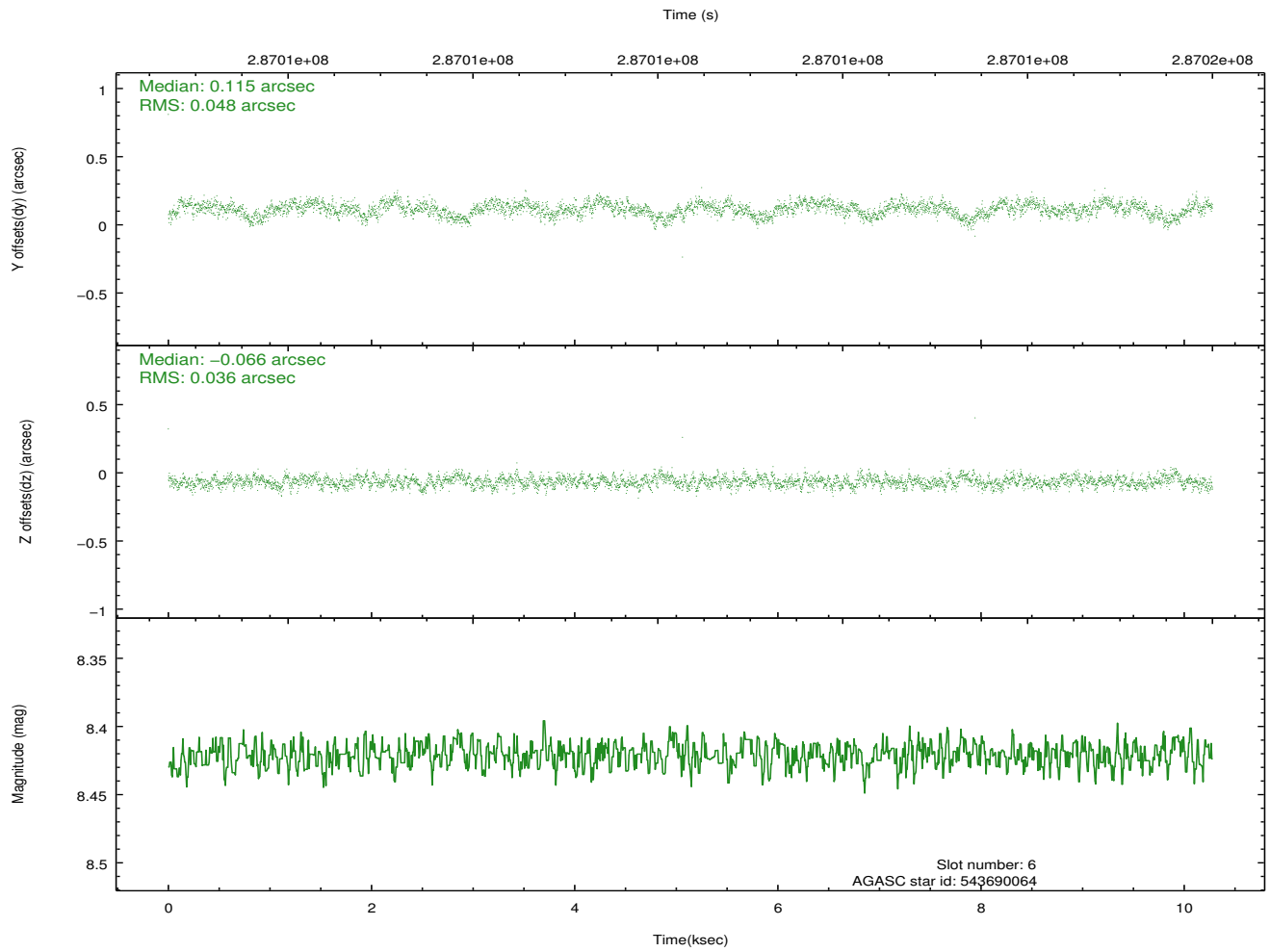
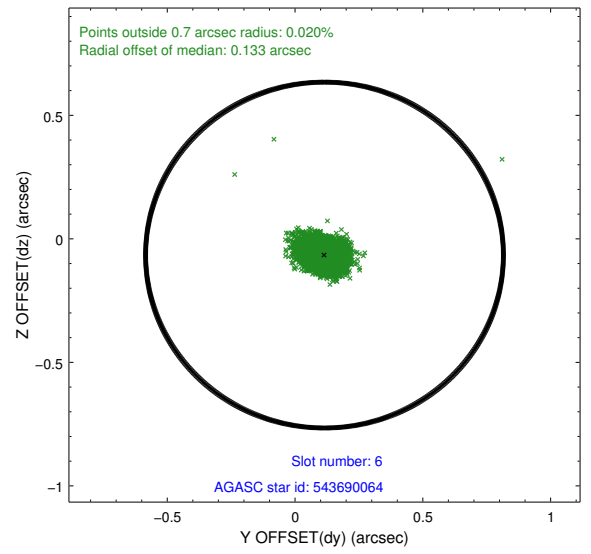
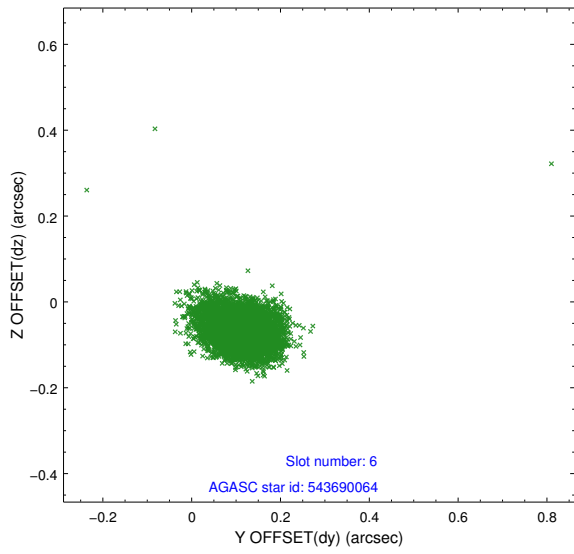
## 2.4.2 Slot 4



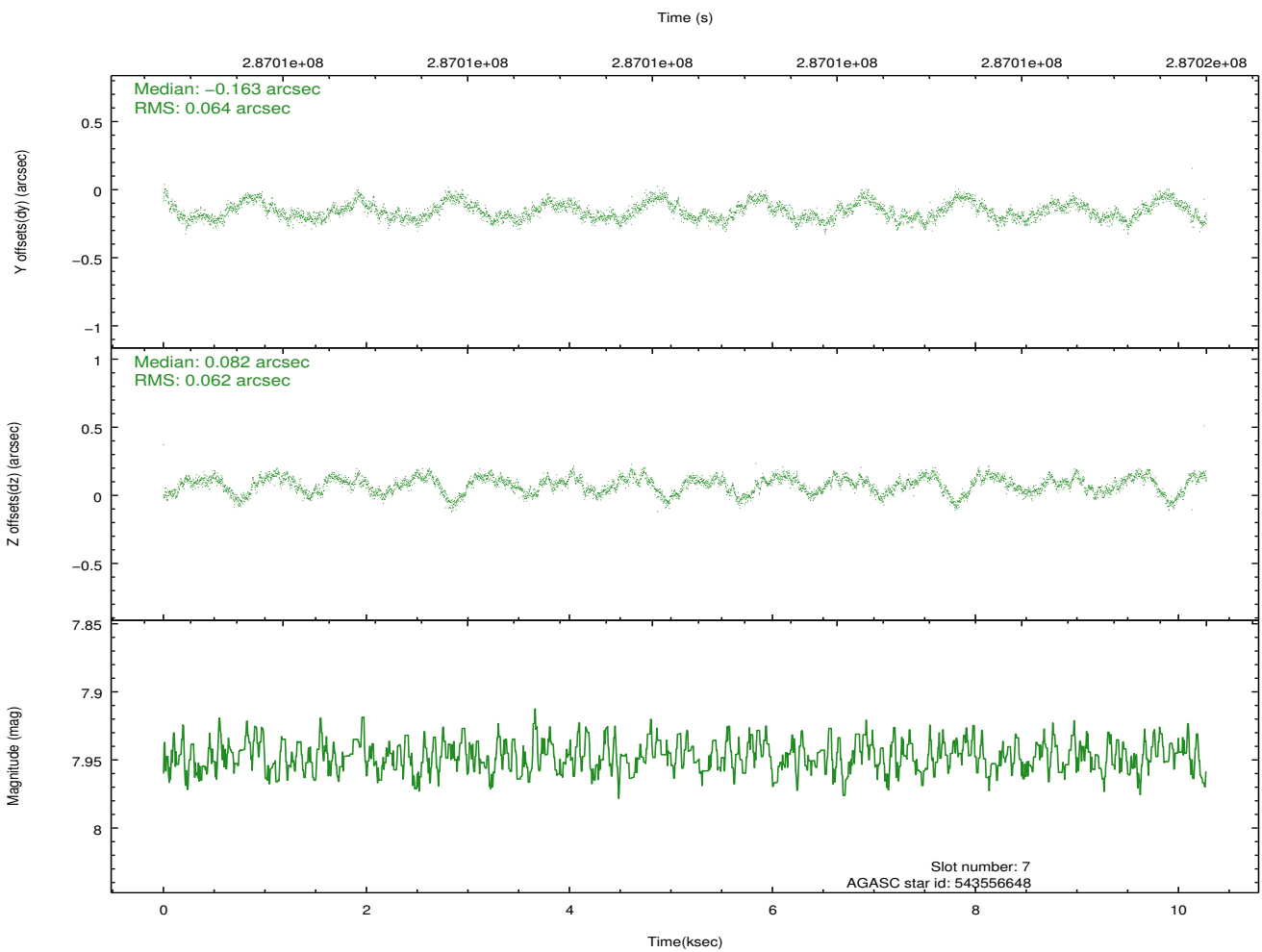
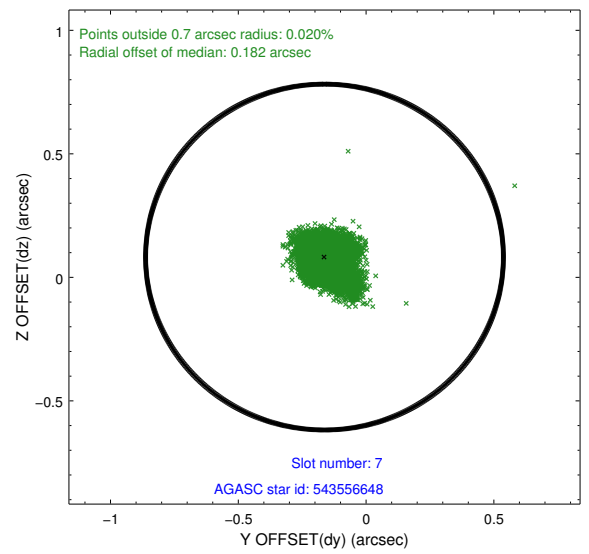
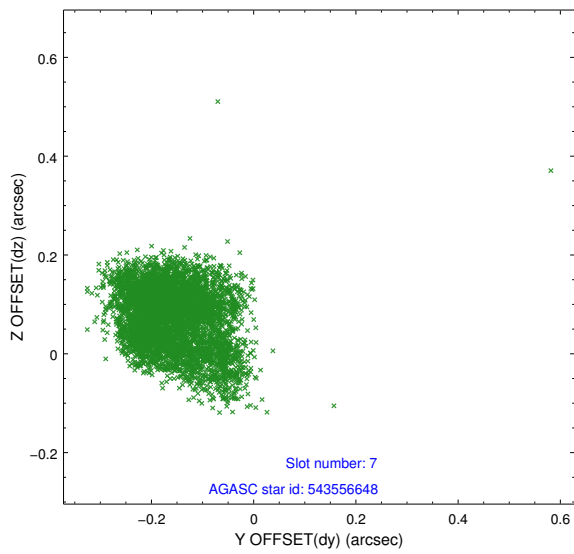
### 2.4.3 Slot 5



### 2.4.4 Slot 6

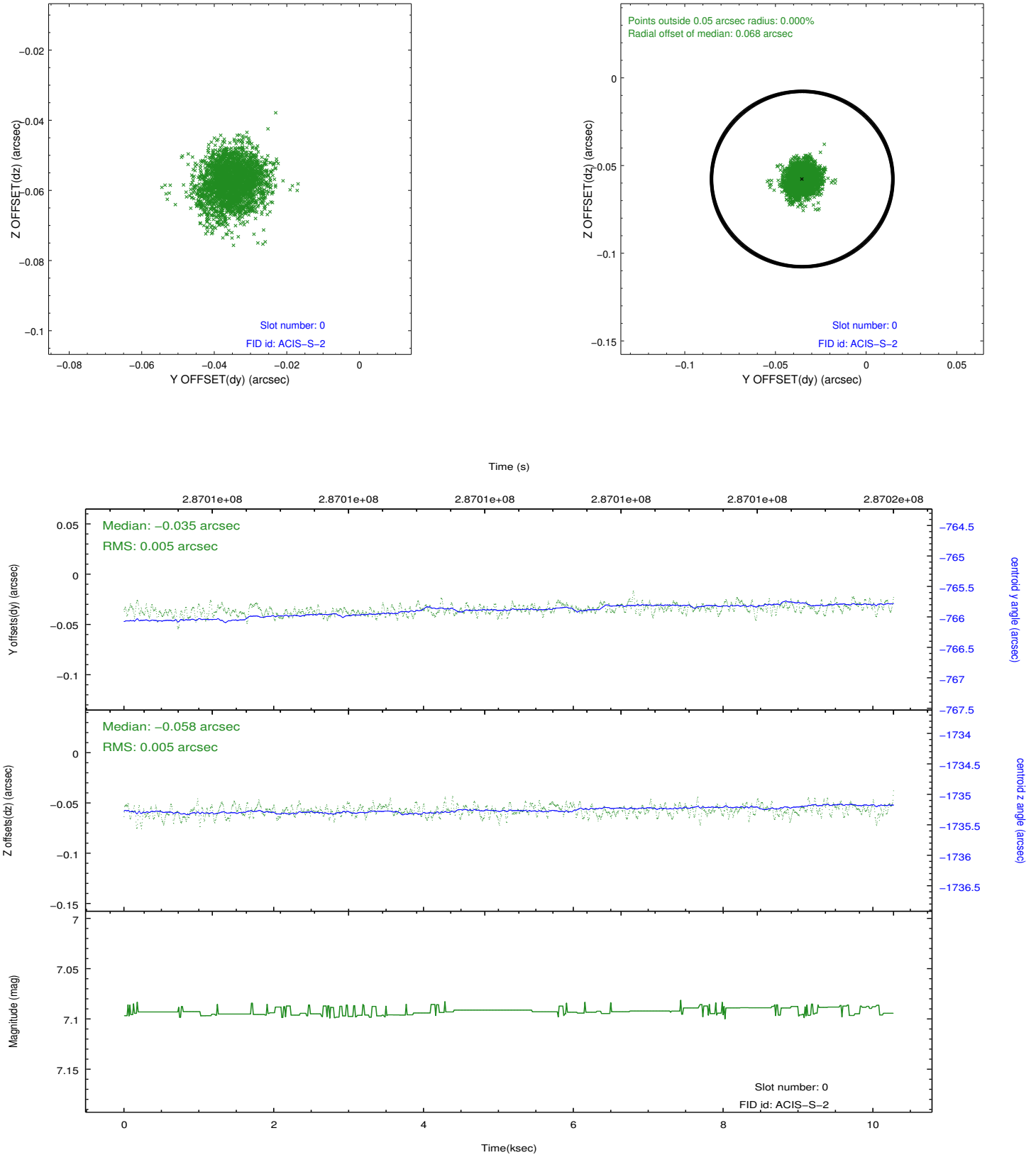


## 2.4.5 Slot 7

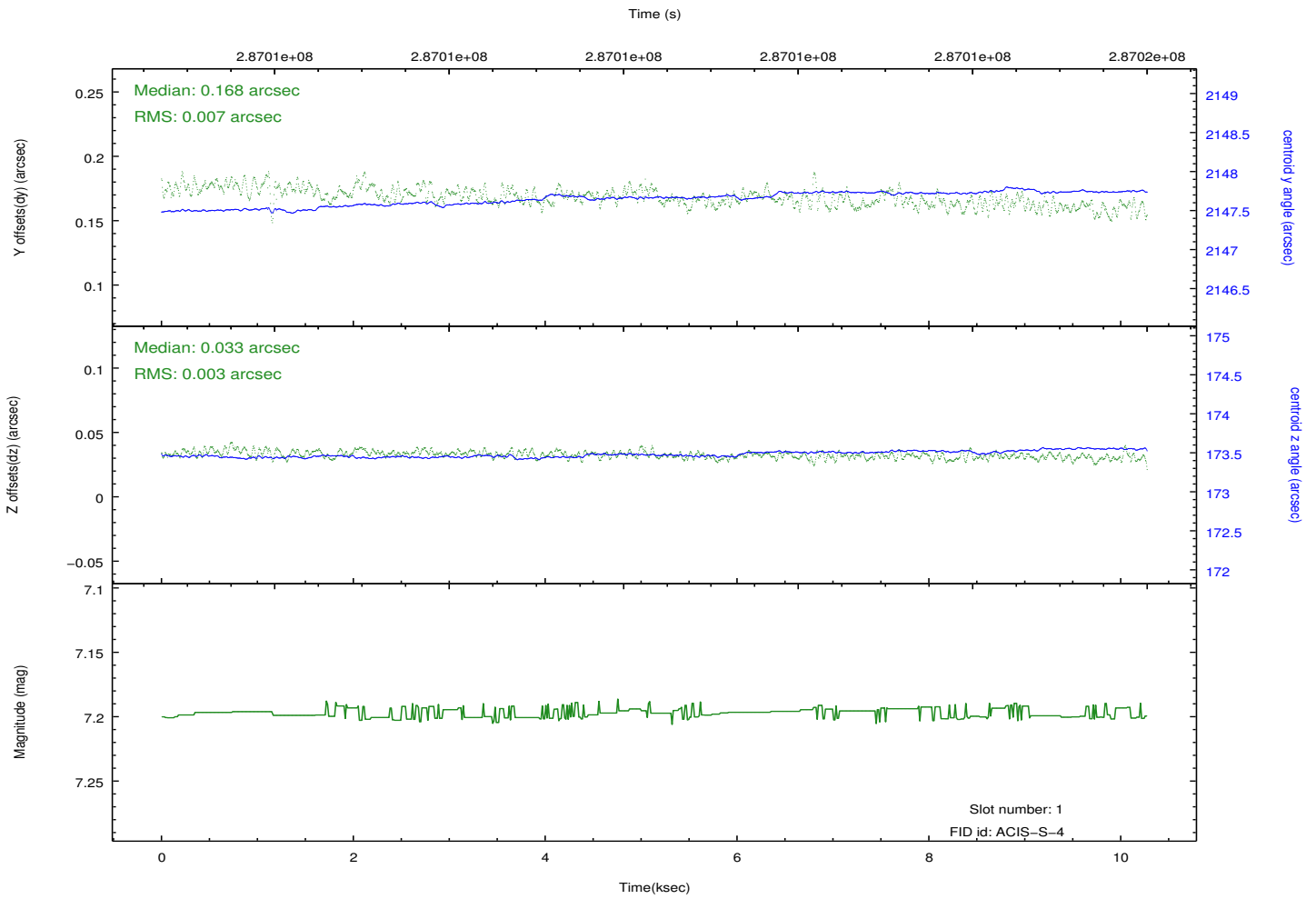
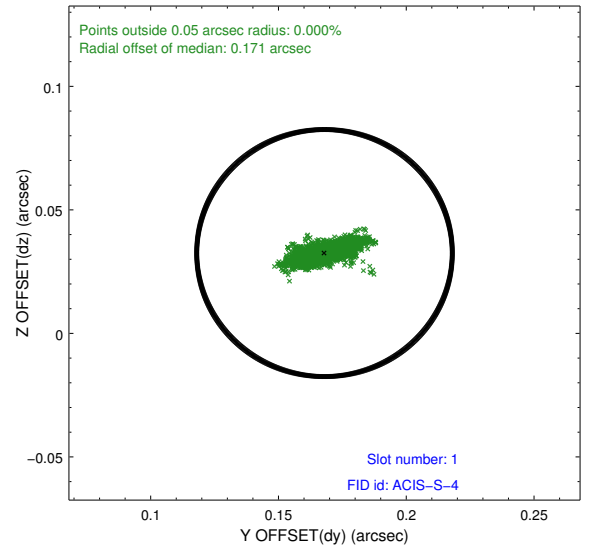
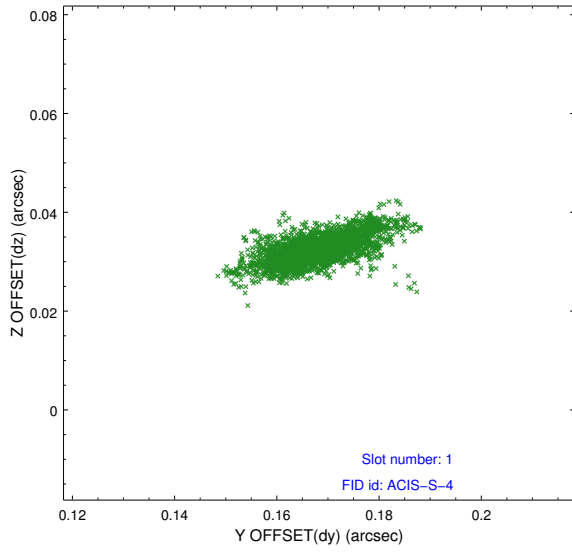


## 2.5 FID Slots

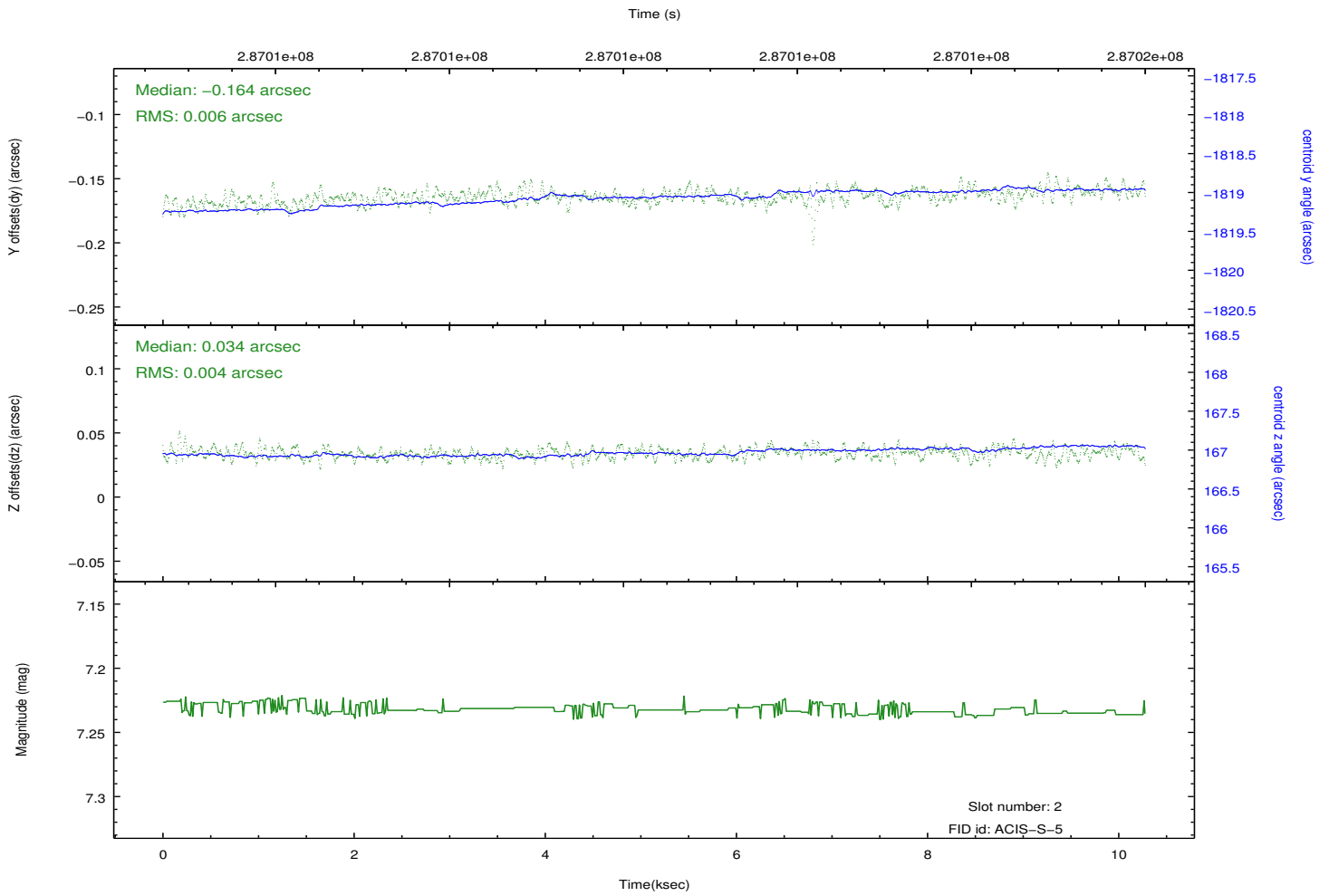
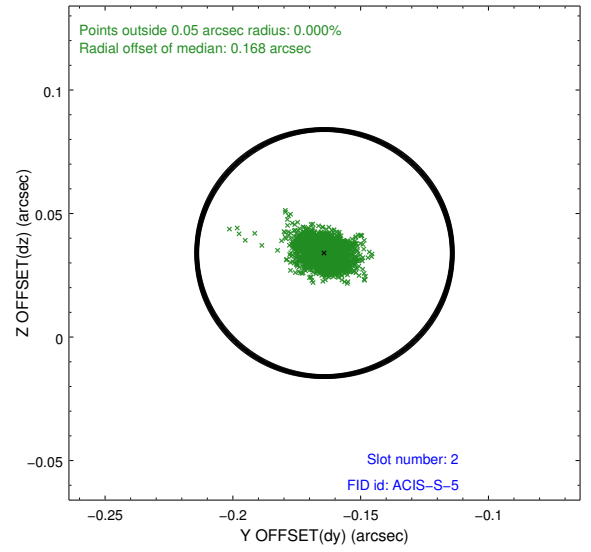
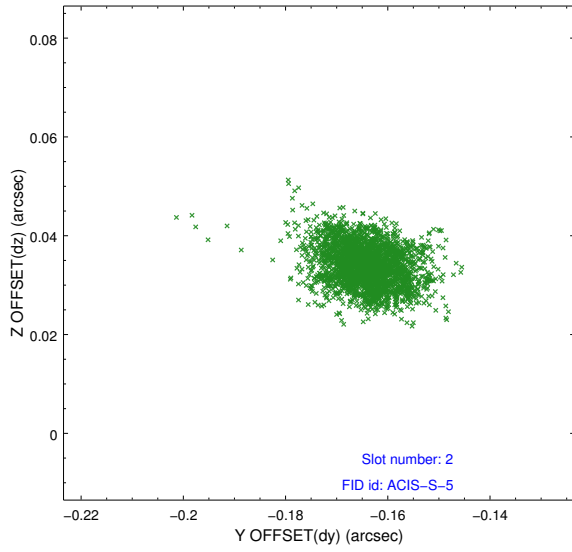
### 2.5.1 Slot 0



## 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)	2012.04.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.044

## A.2 Comments