

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8165 - L2 Version 2  
Chandra X-Ray Center

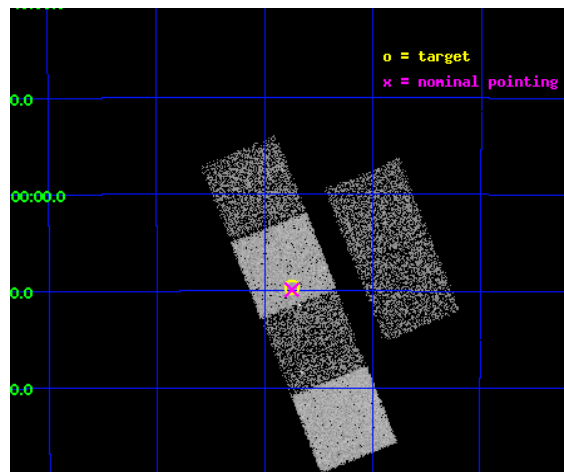
L2 Processing Date : May 3 2012

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# 1 Front

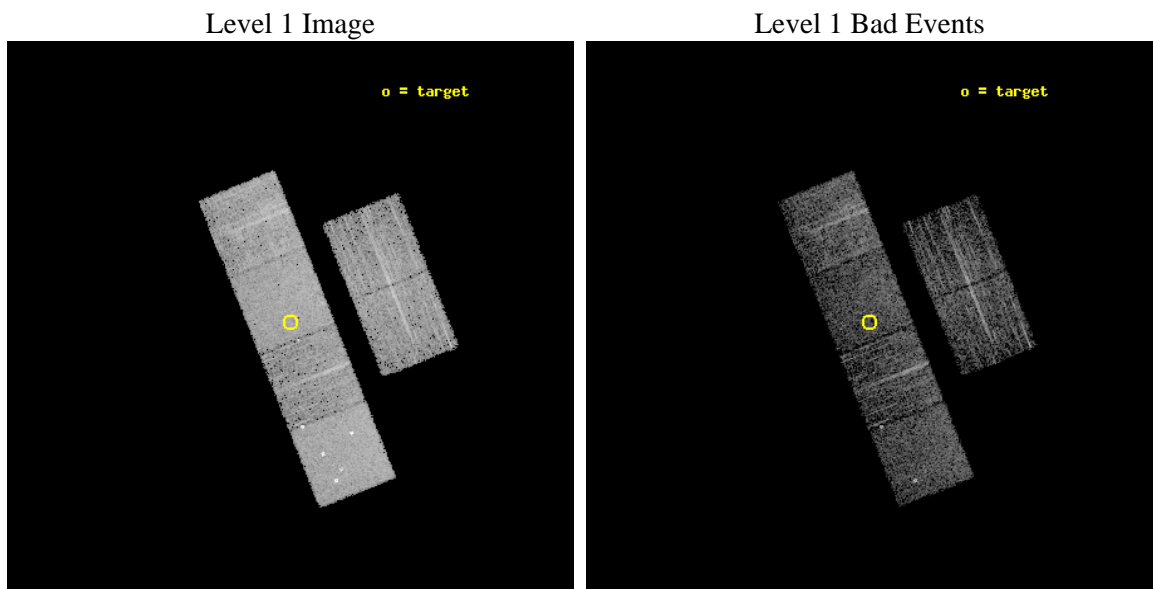
seq_num	900706	Sequence number
obs_id	8165	Observation id
title	ChICAGO GTO: Chandra Identification of Compact ASCA Galactic Objects	&#160
observer	Dr. Stephen Murray	Principal investigator
object	AX J170444-4109	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	256.185833	Observer's specified target RA [deg]
dec_targ	-41.16	Observer's specified target Dec [deg]
ra_nom	256.18704153897	Nominal RA [deg]
dec_nom	-41.164758528444	Nominal Dec [deg]
roll_nom	248.20685354597	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2837.9083389044	Sum of GTIs [s]
livetime	2801.9730347339	Livetime [s]
ontime2	2837.9493789077	Sum of GTIs [s]
ontime3	2837.7852188945	Sum of GTIs [s]
ontime5	2837.8672989011	Sum of GTIs [s]
ontime6	2837.8262588978	Sum of GTIs [s]
ontime7	2837.9083389044	Sum of GTIs [s]
ontime8	2831.2622184157	Sum of GTIs [s]
l2events	44966	Number of level 2 events



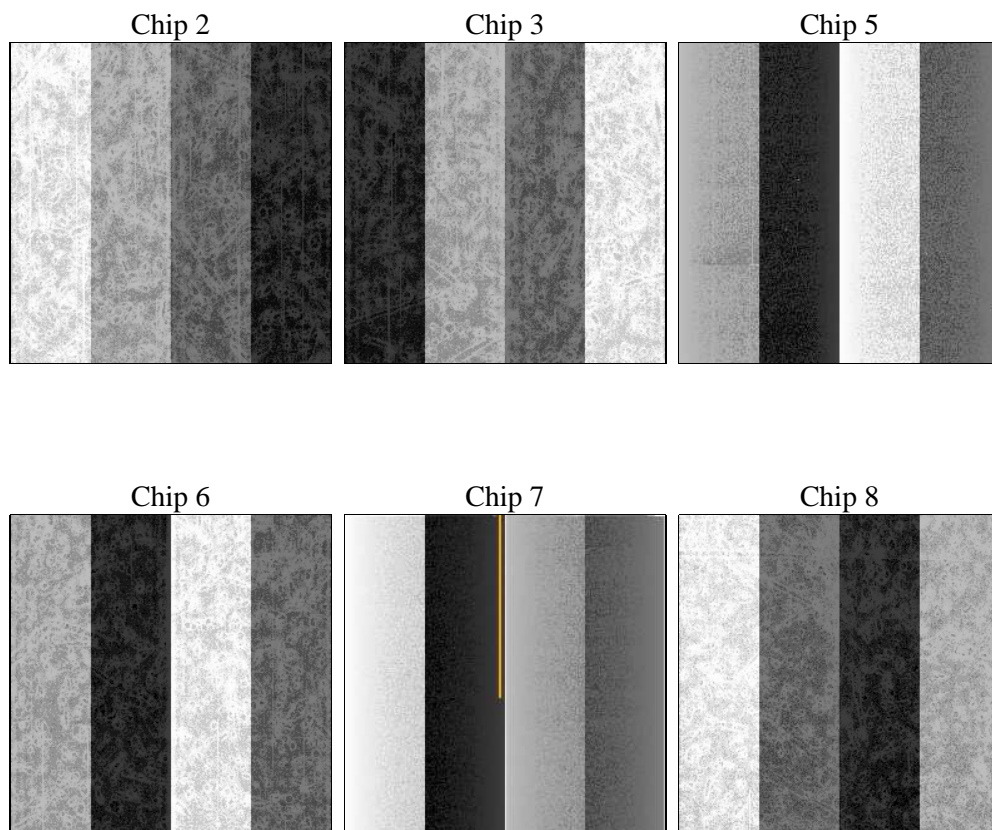
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3080.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2837.9083389044	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	2837.9493789077	Sum of GTIs [s]
date	2012-05-03T12:28:58	Date and time of file creation	ontime3	2837.7852188945	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	2837.8672989011	Sum of GTIs [s]
			ontime6	2837.8262588978	Sum of GTIs [s]
			ontime7	2837.9083389044	Sum of GTIs [s]
			ontime8	2831.2622184157	Sum of GTIs [s]
			l1events	197655	Number of level 1 events

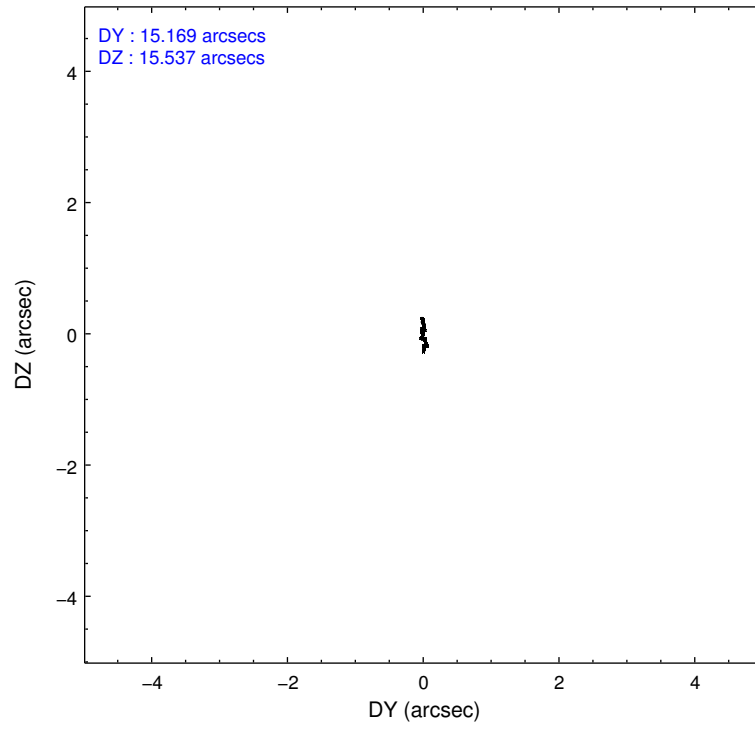
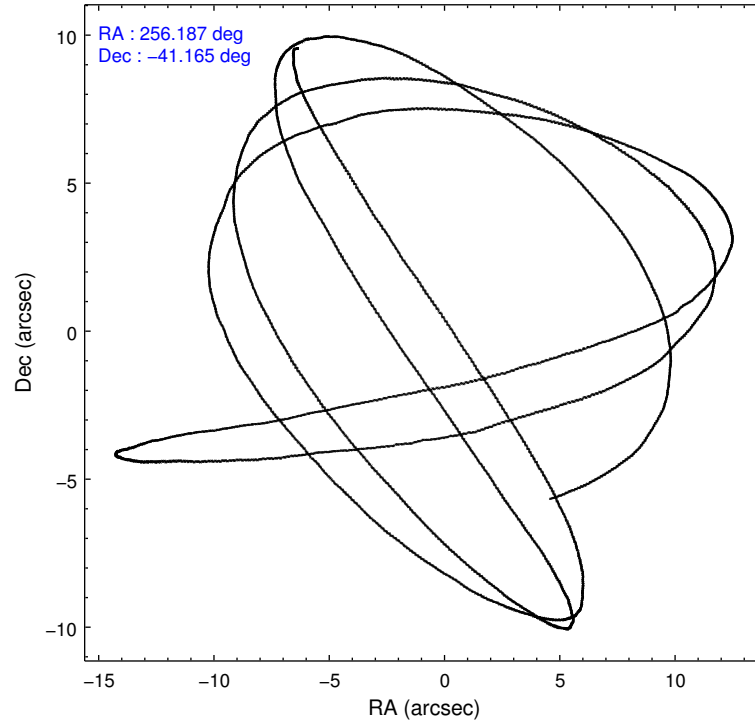
### 2.1.4 Events

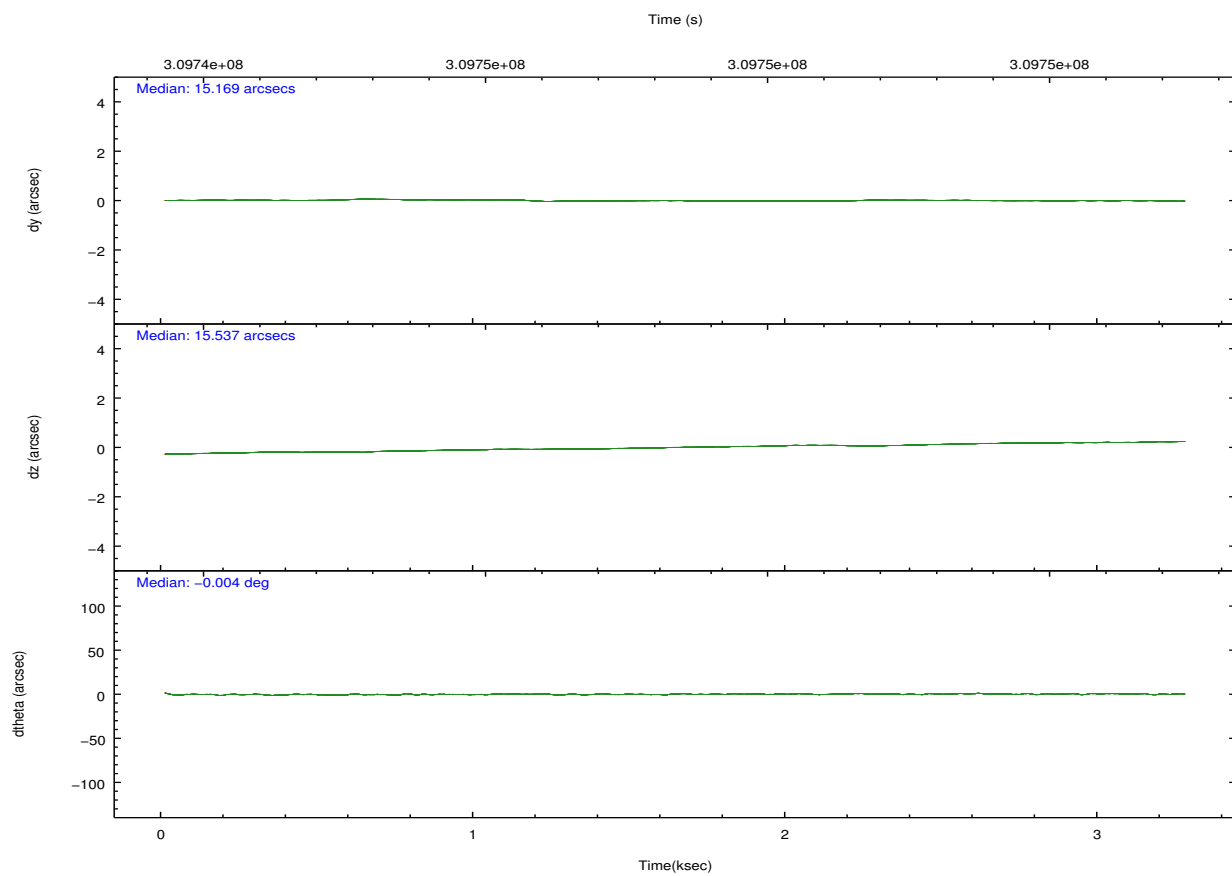
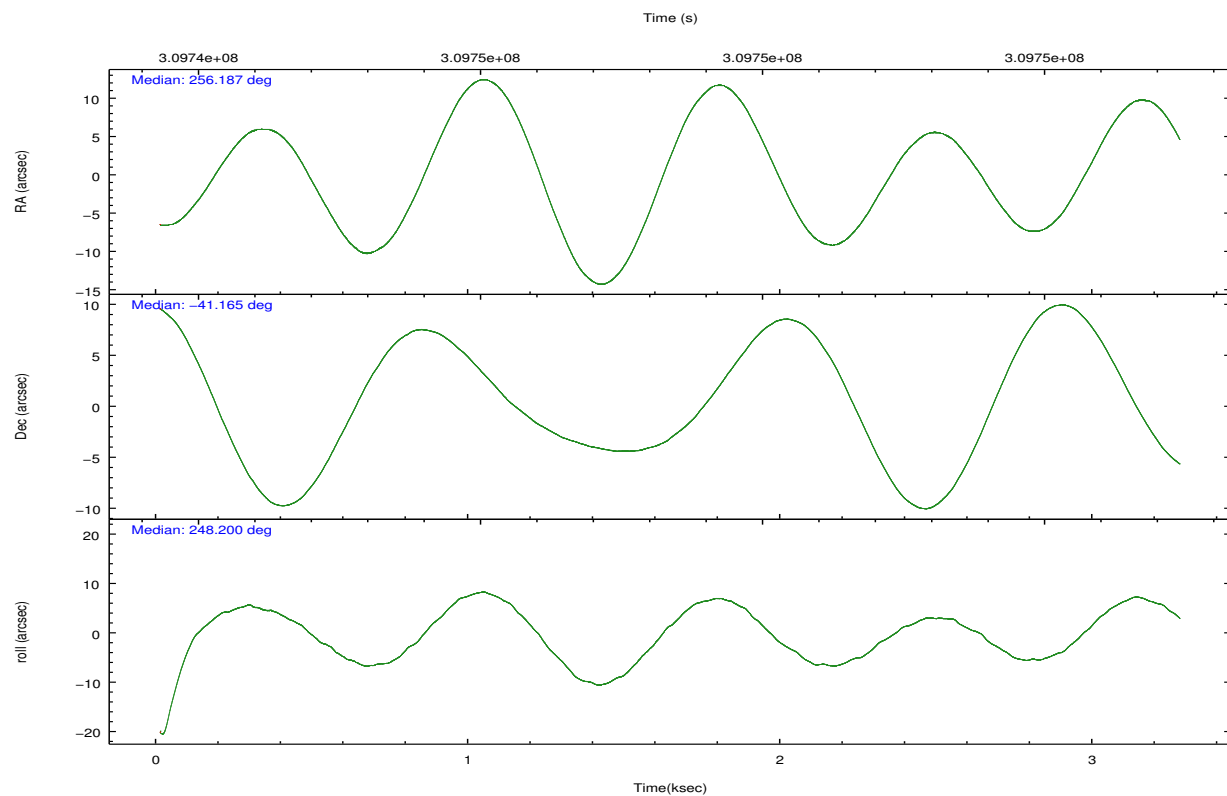
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	26685	26010	44298	26432	37211	37019	grade 0 events	1467	1510	3046	1494	1298	2452
rejected events	23448	22647	23084	22924	21724	29358		5%	5%	6%	5%	3%	6%
rejected %	87%	87%	52%	86%	58%	79%	grade 1 events	19	14	353	20	39	55
								0%	0%	0%	0%	0%	0%
							grade 2 events	715	638	6214	688	3080	1601
								2%	2%	14%	2%	8%	4%
							grade 3 events	286	317	734	342	1247	786
								1%	1%	1%	1%	3%	2%
							grade 4 events	270	321	734	311	1375	795
								1%	1%	1%	1%	3%	2%
							grade 5 events	1018	1197	3083	1241	3466	1726
								3%	4%	6%	4%	9%	4%
							grade 6 events	502	578	10498	675	8510	2041
								1%	2%	23%	2%	22%	5%
							grade 7 events	22408	21435	19636	21661	18196	27563
								83%	82%	44%	81%	48%	74%

## 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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	256.181270	256.1870415389689	CCD I2 on	O2	Y
[deg] Pointing Dec	-41.137768	-41.1647585284441	CCD I3 on	O3	Y
[deg] Pointing Roll	248.046497	248.206853545971	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O4	Y
[s] Observation start time (MET)	309745227.184000	309744824.19823	CCD S5 on	N	N
Observation start date	2007-10-26T00:19:22	2007-10-26T00:13:44	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	309748307.184000	309748441.4234	On-chip summing requested	N	N
Observation end date	2007-10-26T01:10:42	2007-10-26T01:14:01	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





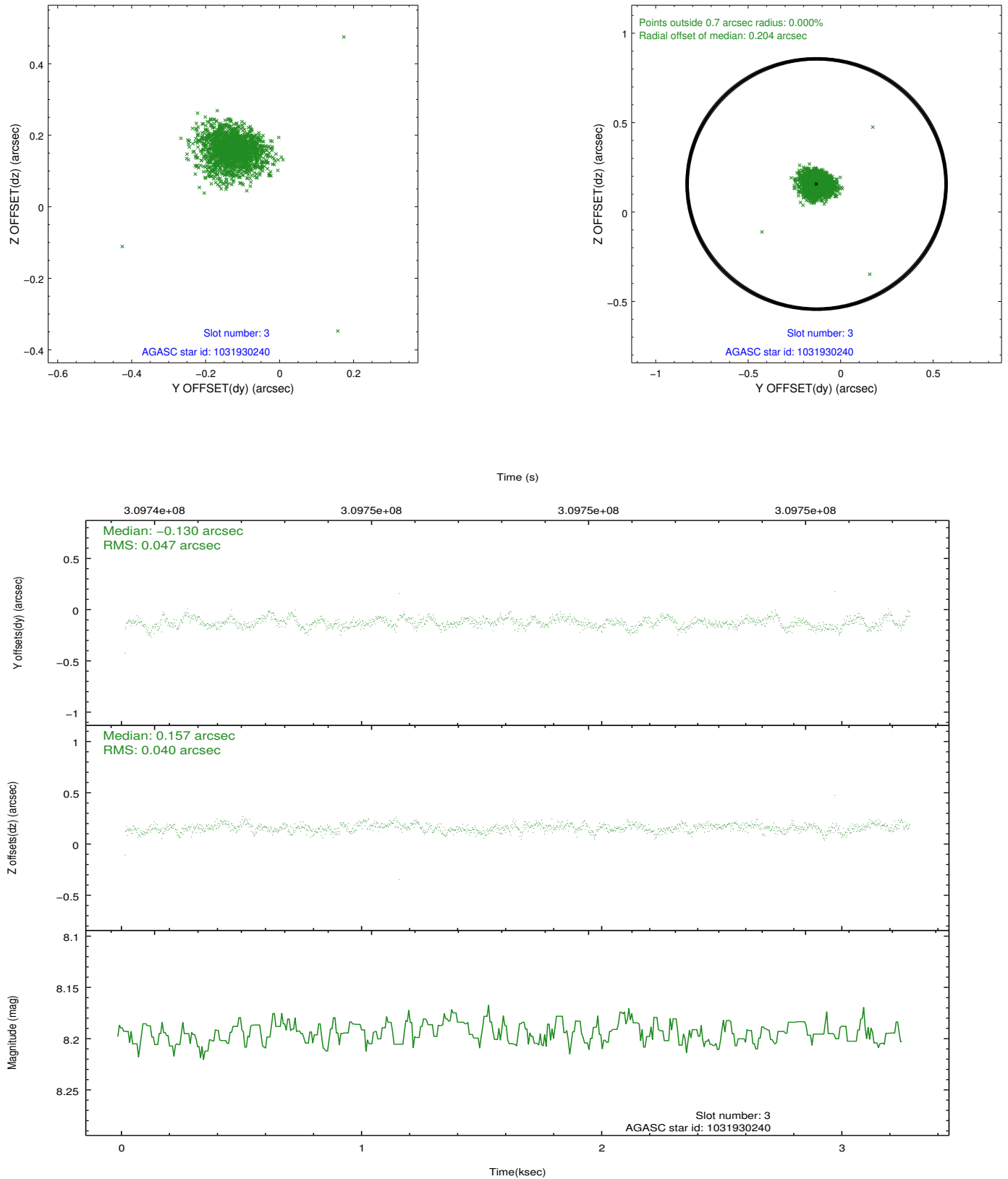
### Slot Statistics

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	798	-0.099	-0.017	0.007	0.011	0.000000	0.000000	-768.24	-1736.89
1	FID	ACIS-S-4	7.19	798	0.191	0.052	0.006	0.012	0.000000	0.000000	2144.43	169.65
2	FID	ACIS-S-5	7.22	798	-0.124	-0.027	0.006	0.010	0.000000	0.000000	-1818.62	165.44
3	GUIDE	1031930240	8.19	1595	-0.130	0.157	0.063	0.101	257.160708	-40.849868	-1944.39	2091.68
4	GUIDE	1031937520	8.18	1595	0.075	0.011	0.065	0.105	256.333720	-41.104608	-265.76	340.18
5	GUIDE	1031938144	8.51	1594	0.035	-0.070	0.092	0.149	255.693343	-40.912652	-251.41	-1532.74
6	GUIDE	1032465752	8.33	1594	-0.076	-0.088	0.069	0.110	256.198812	-41.713400	1904.55	817.57
7	GUIDE	1032466120	9.14	1593	0.091	-0.010	0.082	0.131	255.616572	-41.318828	1182.13	-1170.12

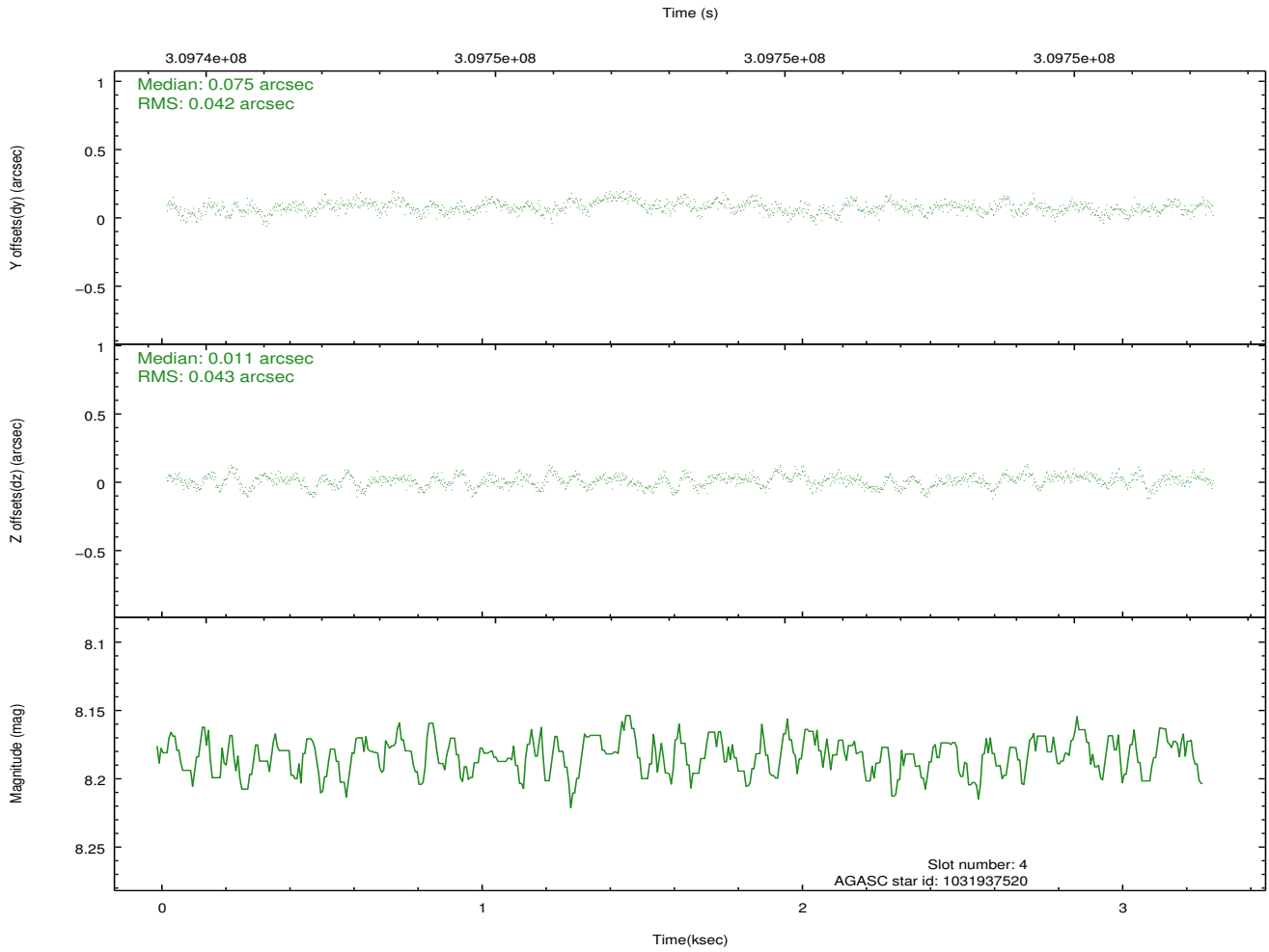
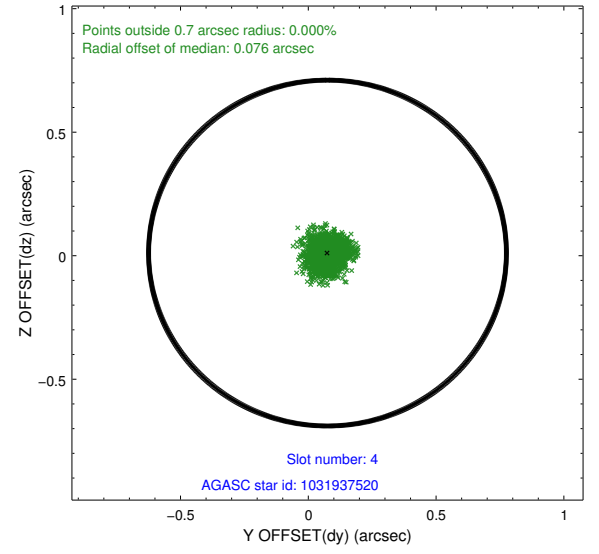
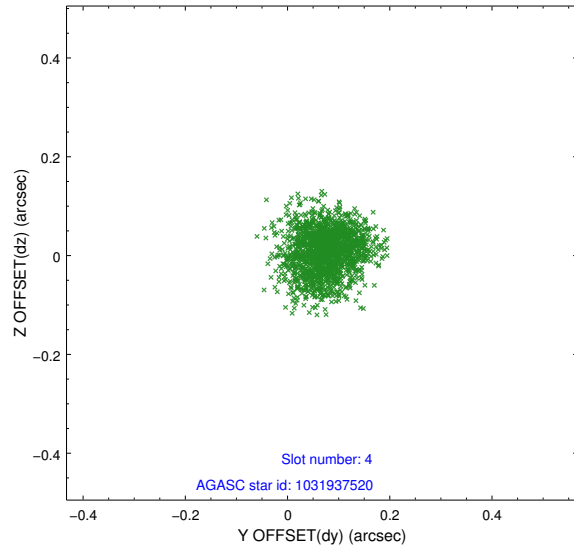


## 2.4 Star Slots

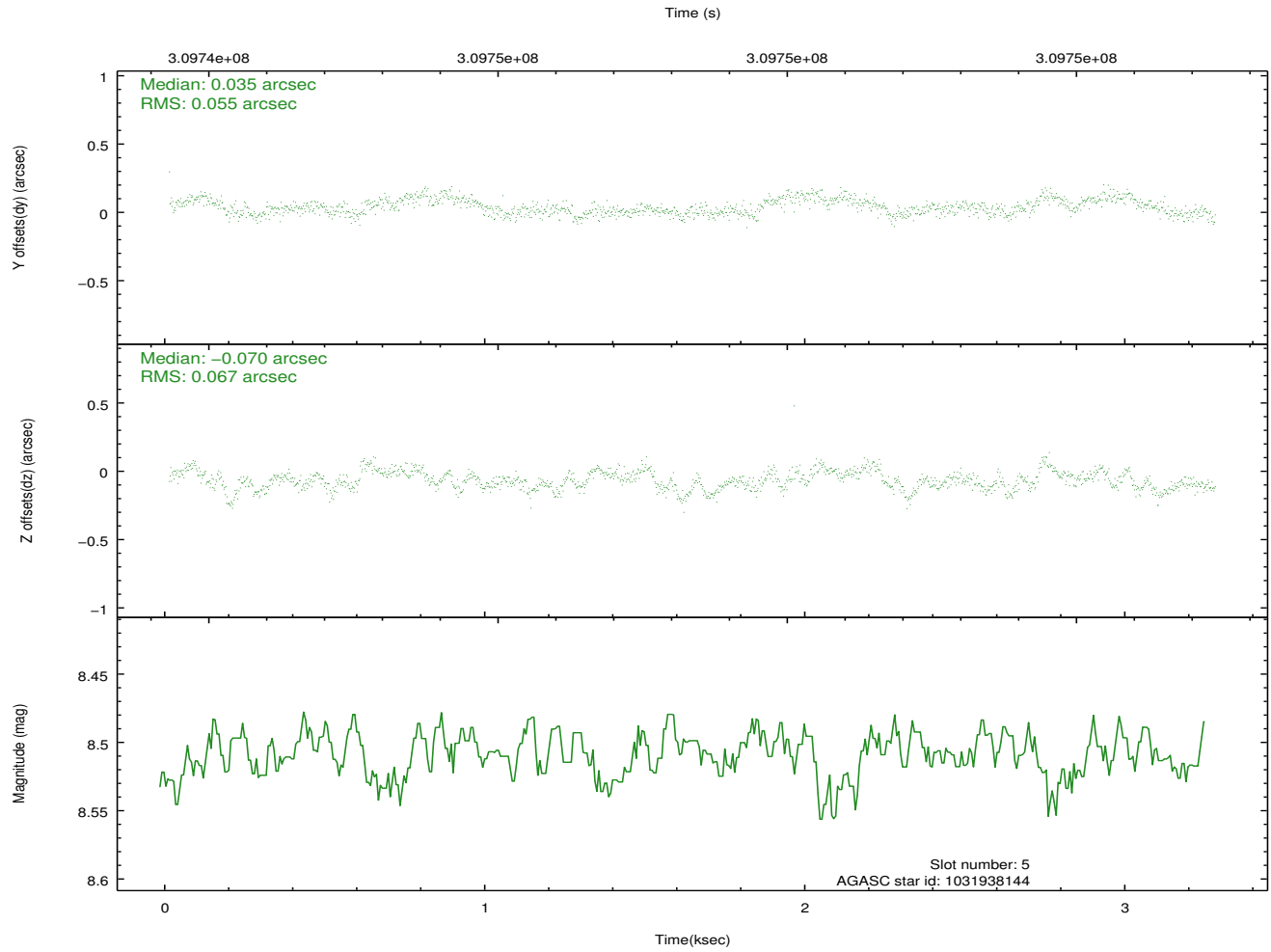
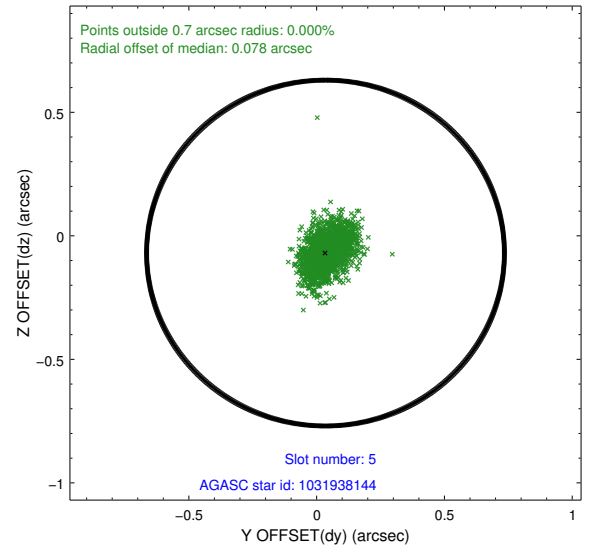
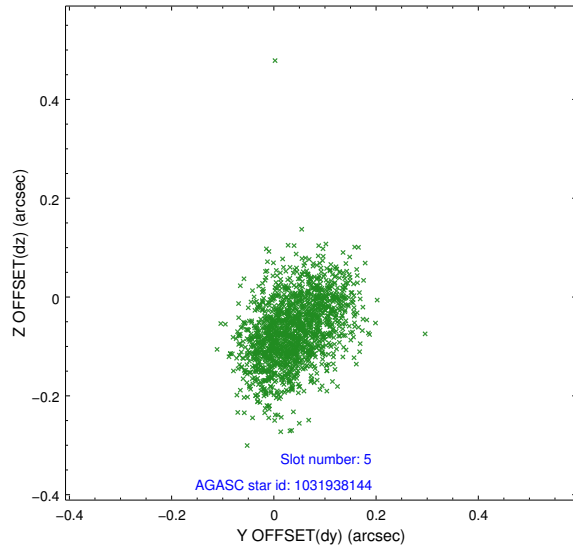
### 2.4.1 Slot 3



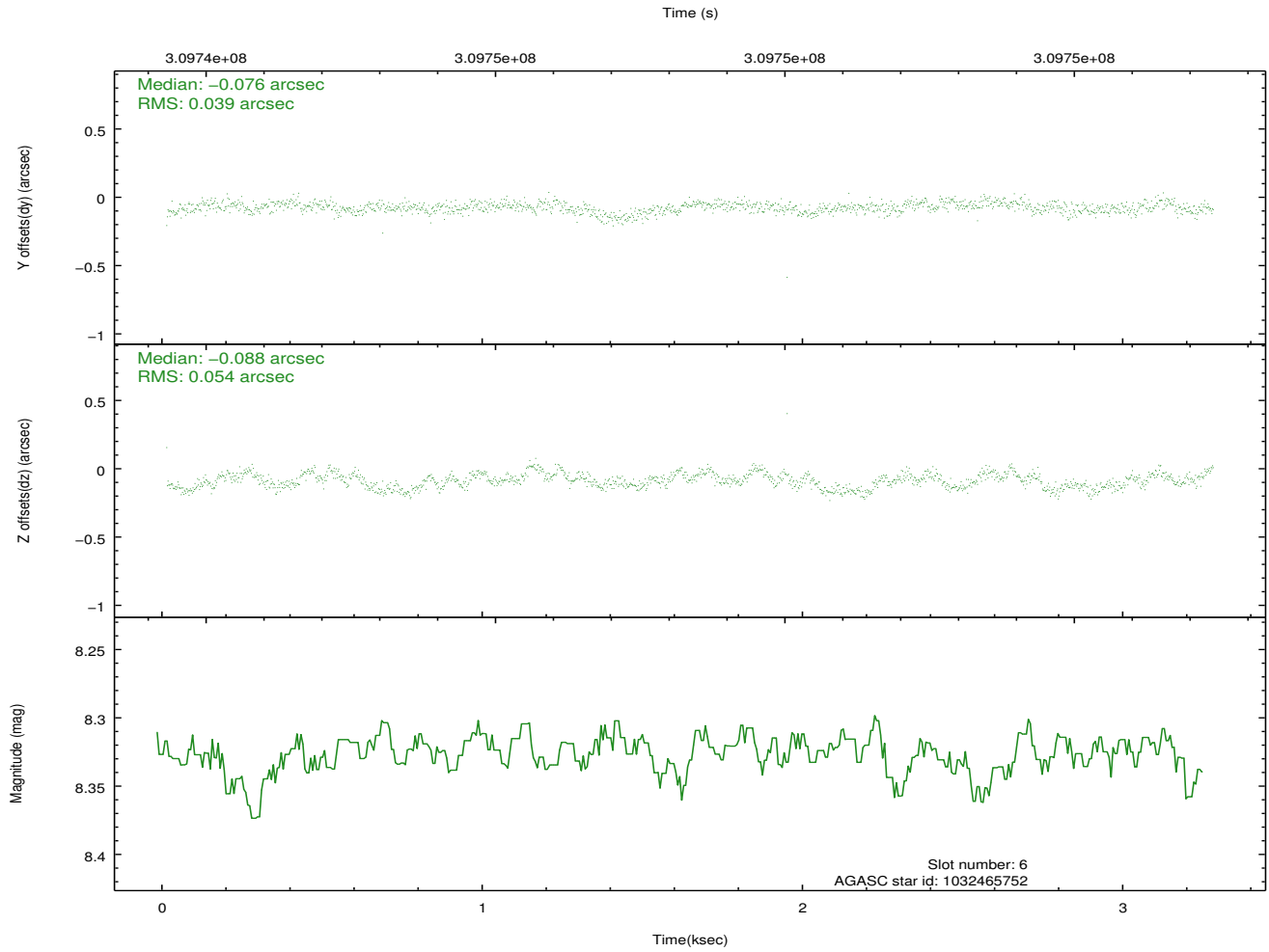
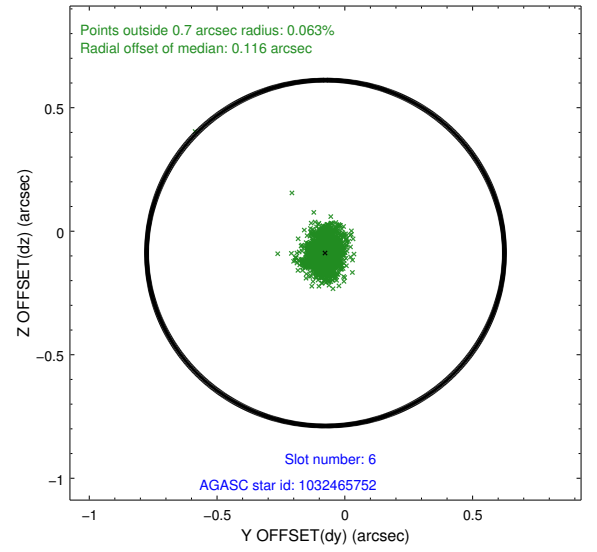
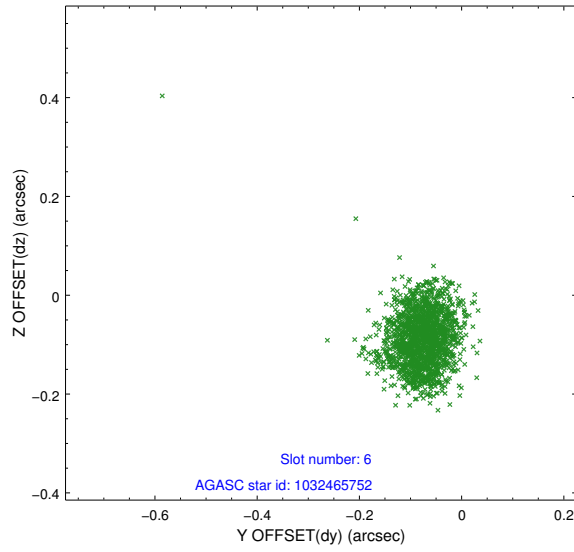
## 2.4.2 Slot 4



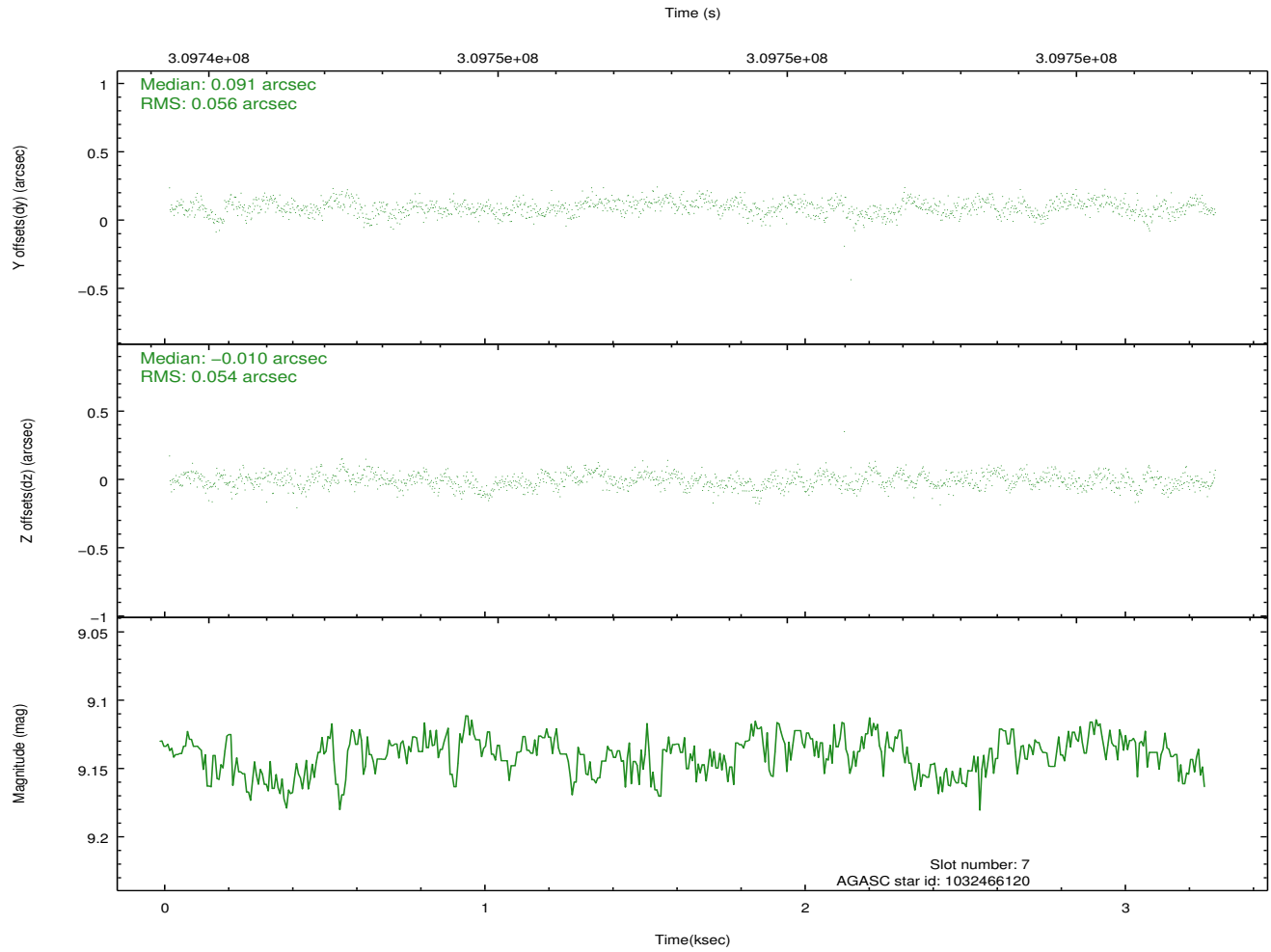
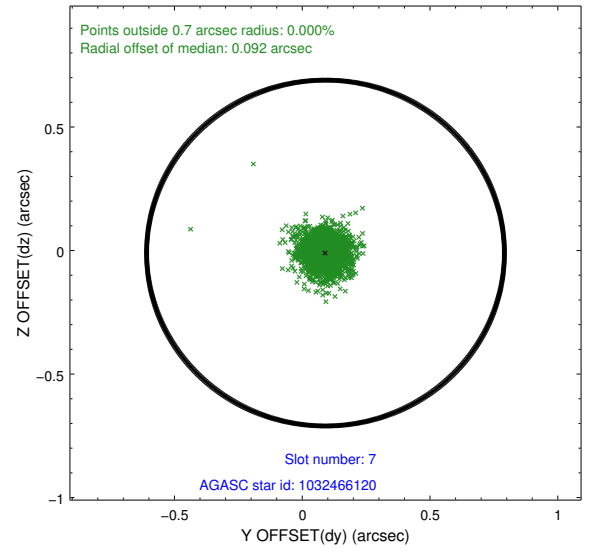
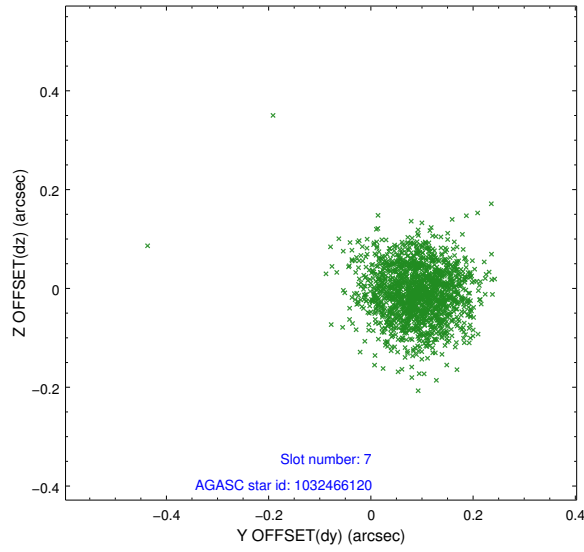
### 2.4.3 Slot 5



## 2.4.4 Slot 6

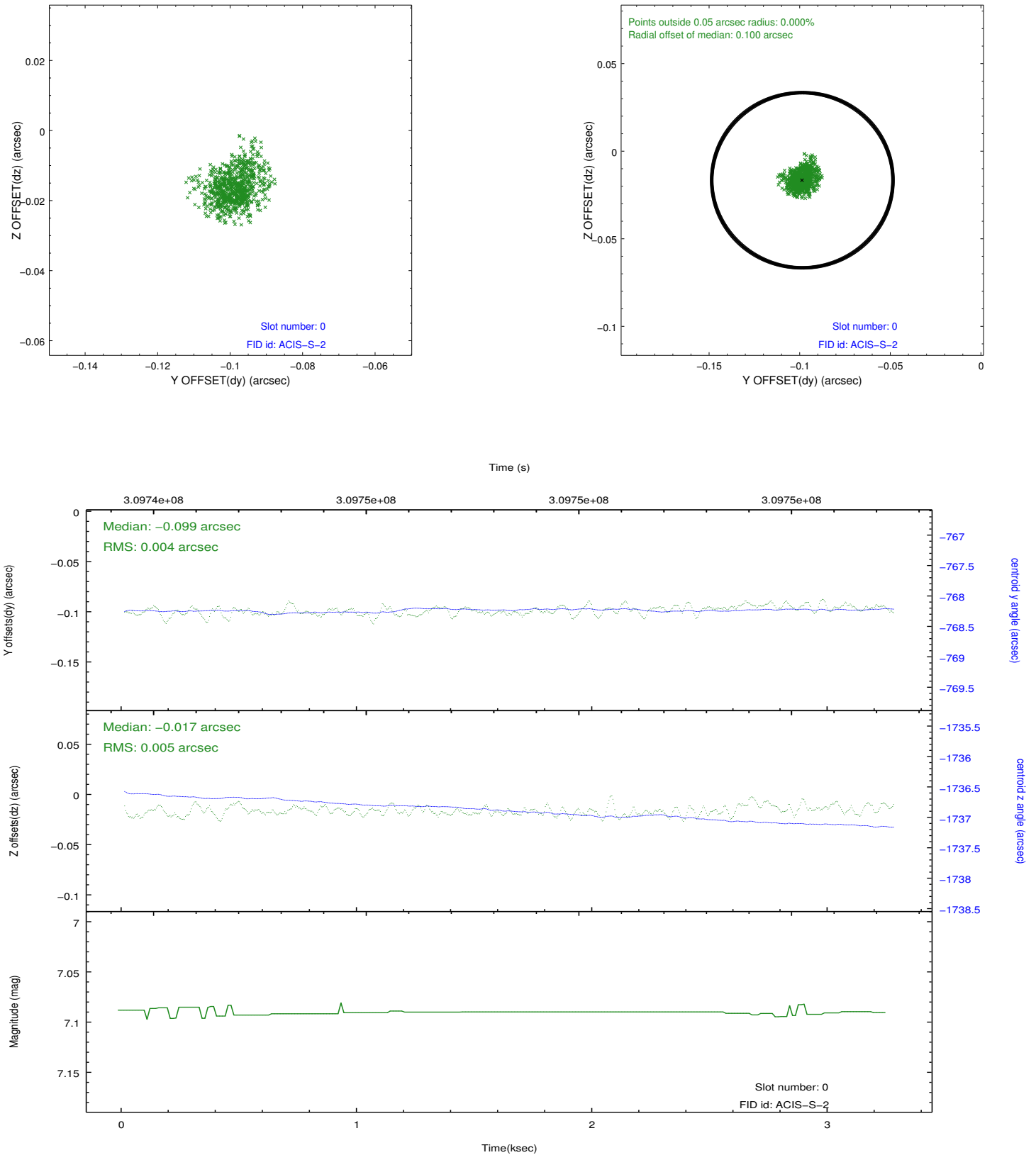


## 2.4.5 Slot 7

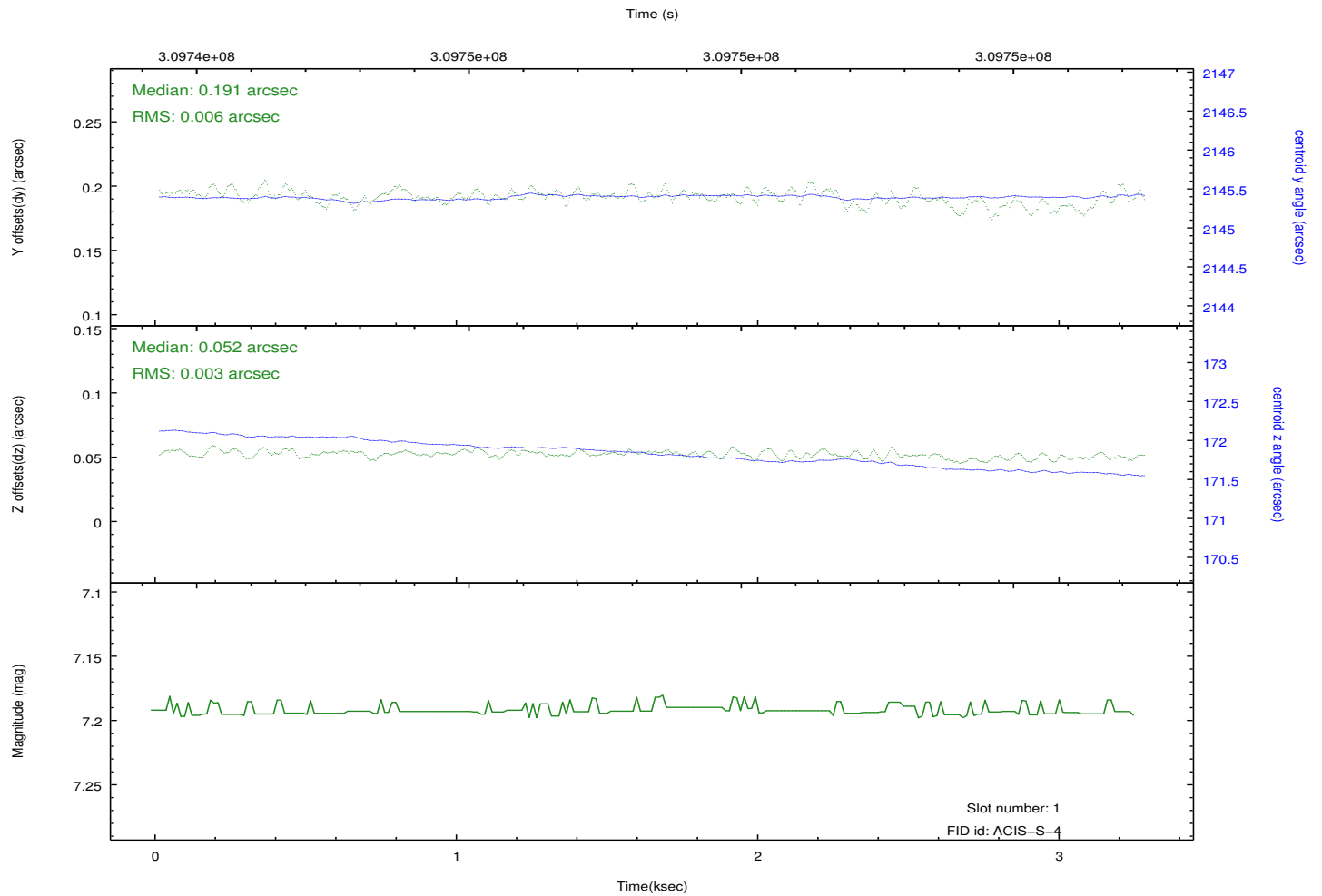
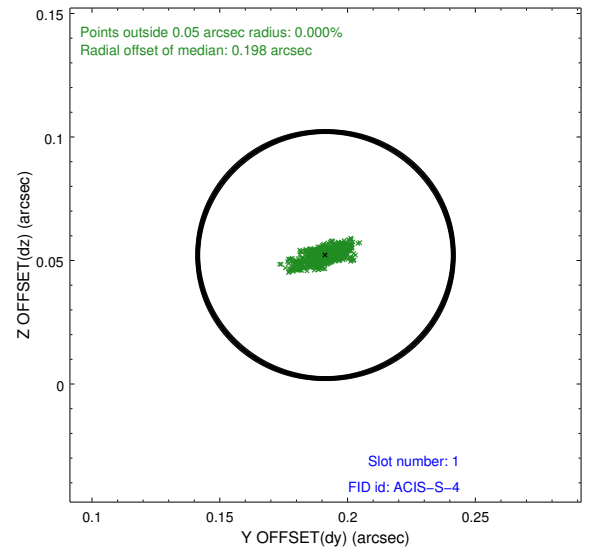
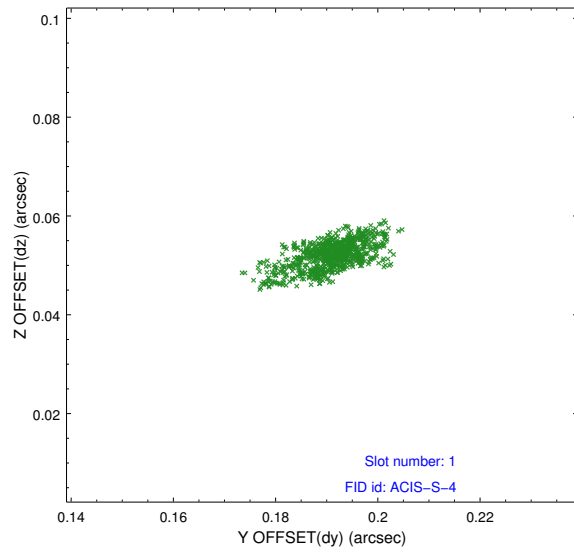


## 2.5 FID Slots

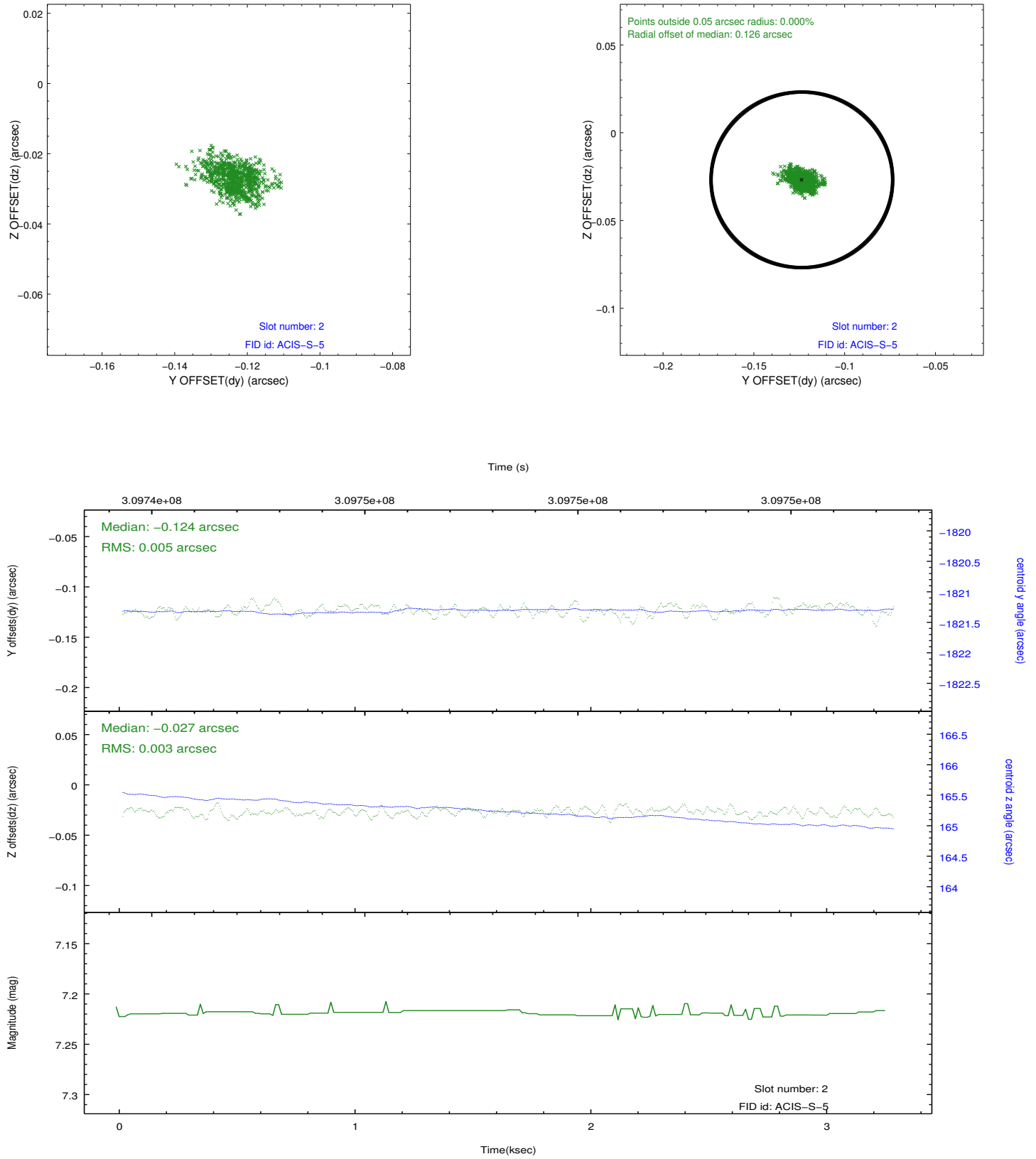
### 2.5.1 Slot 0



## 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)	2012.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.83839998

### A.2 Comments