

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8161 - L2 Version 2  
Chandra X-Ray Center

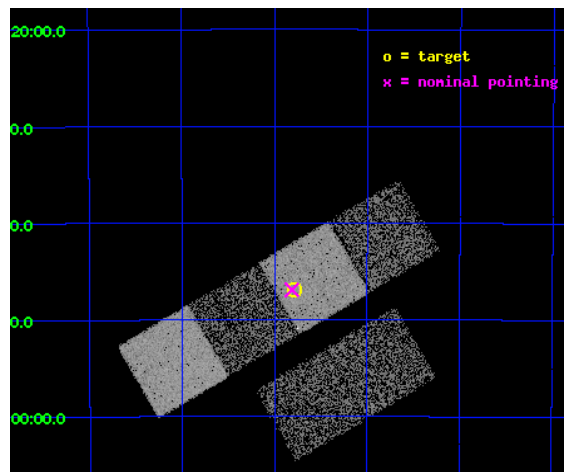
L2 Processing Date : Apr 26 2012

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# 1 Front

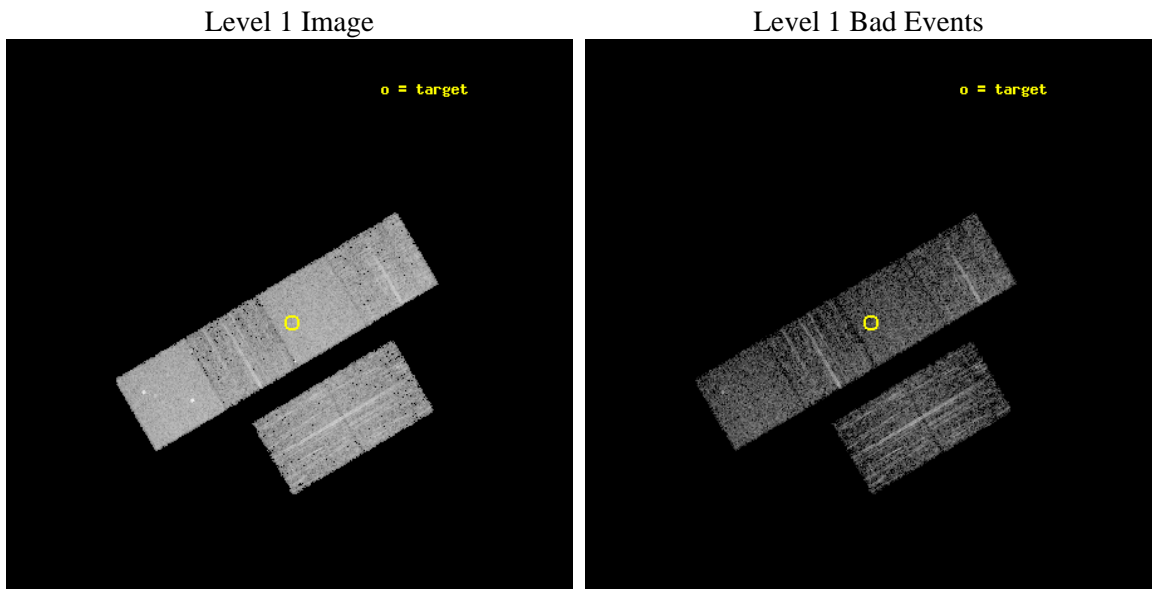
seq_num	900702	Sequence number
obs_id	8161	Observation id
title	ChICAGO GTO: Chandra Identification of Compact ASCA Galactic Objects	&#160
observer	Dr. Stephen Murray	Principal investigator
object	AX J162246-4946	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	245.695833	Observer's specified target RA [deg]
dec_targ	-49.782	Observer's specified target Dec [deg]
ra_nom	245.70324894642	Nominal RA [deg]
dec_nom	-49.781919131188	Nominal Dec [deg]
roll_nom	329.53145800068	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2937.5999891162	Sum of GTIs [s]
livetime	2900.4023292436	Livetime [s]
ontime2	2937.5999891162	Sum of GTIs [s]
ontime3	2937.5999891162	Sum of GTIs [s]
ontime5	2937.5999891162	Sum of GTIs [s]
ontime6	2937.5999891162	Sum of GTIs [s]
ontime7	2937.5999891162	Sum of GTIs [s]
ontime8	2937.5999891162	Sum of GTIs [s]
l2events	48117	Number of level 2 events



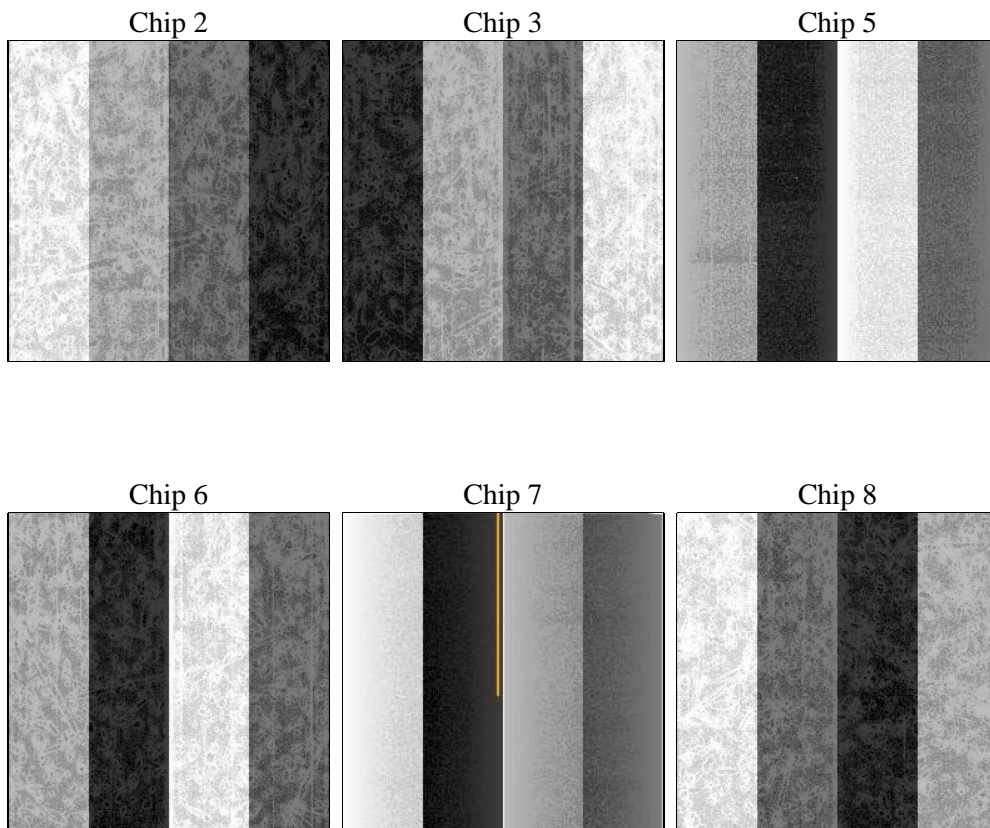
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2800.066000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2937.5999891162	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime2	2937.5999891162	Sum of GTIs [s]
date	2012-04-26T11:40:18	Date and time of file creation	ontime3	2937.5999891162	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	2937.5999891162	Sum of GTIs [s]
			ontime6	2937.5999891162	Sum of GTIs [s]
			ontime7	2937.5999891162	Sum of GTIs [s]
			ontime8	2937.5999891162	Sum of GTIs [s]
			l1events	207169	Number of level 1 events

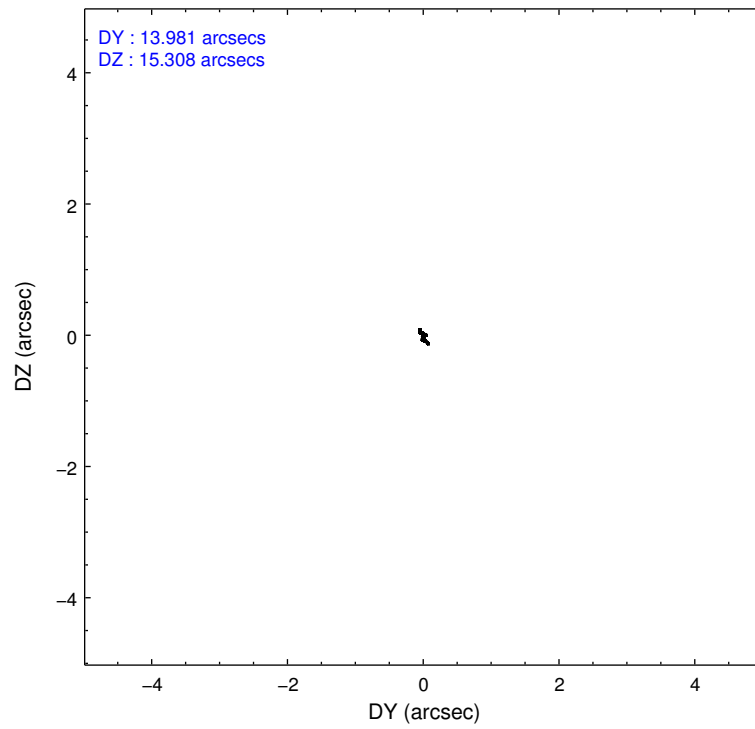
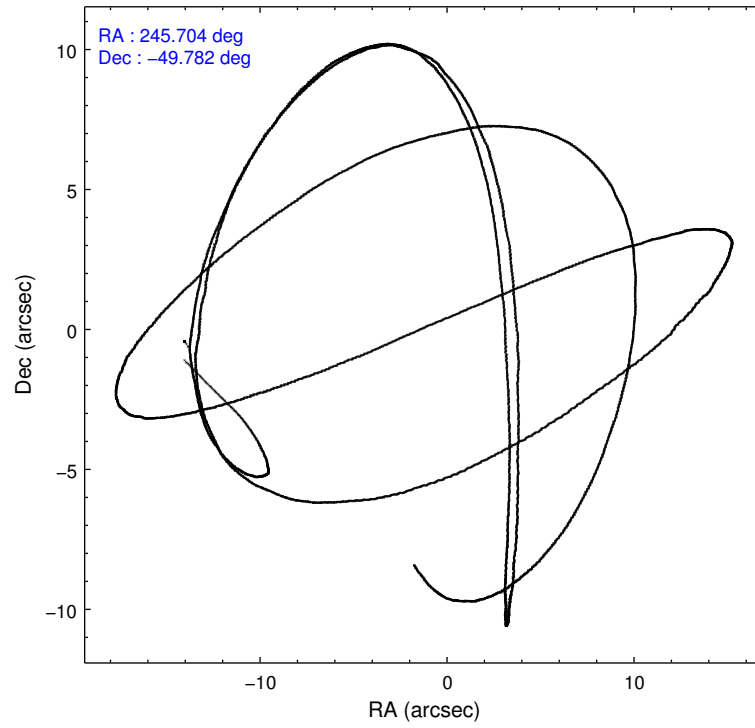
### 2.1.4 Events

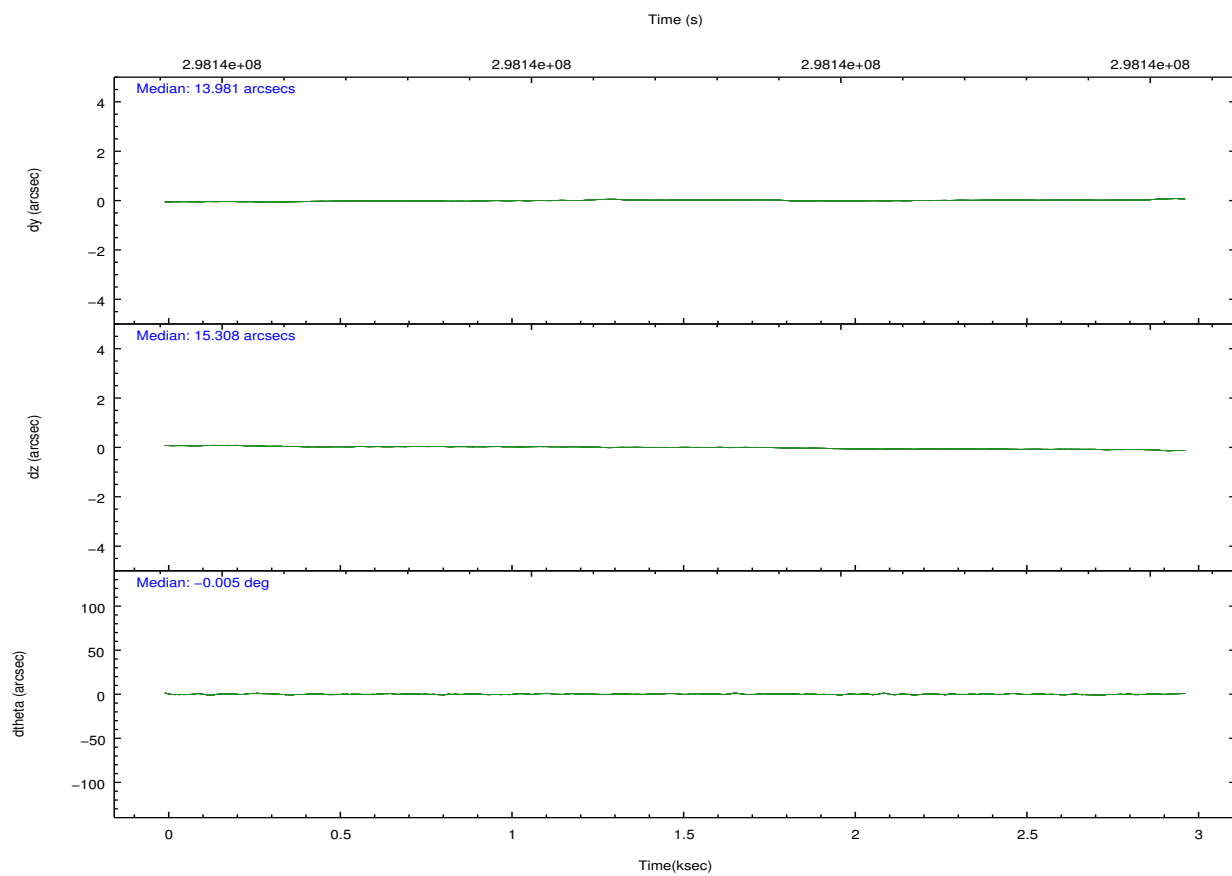
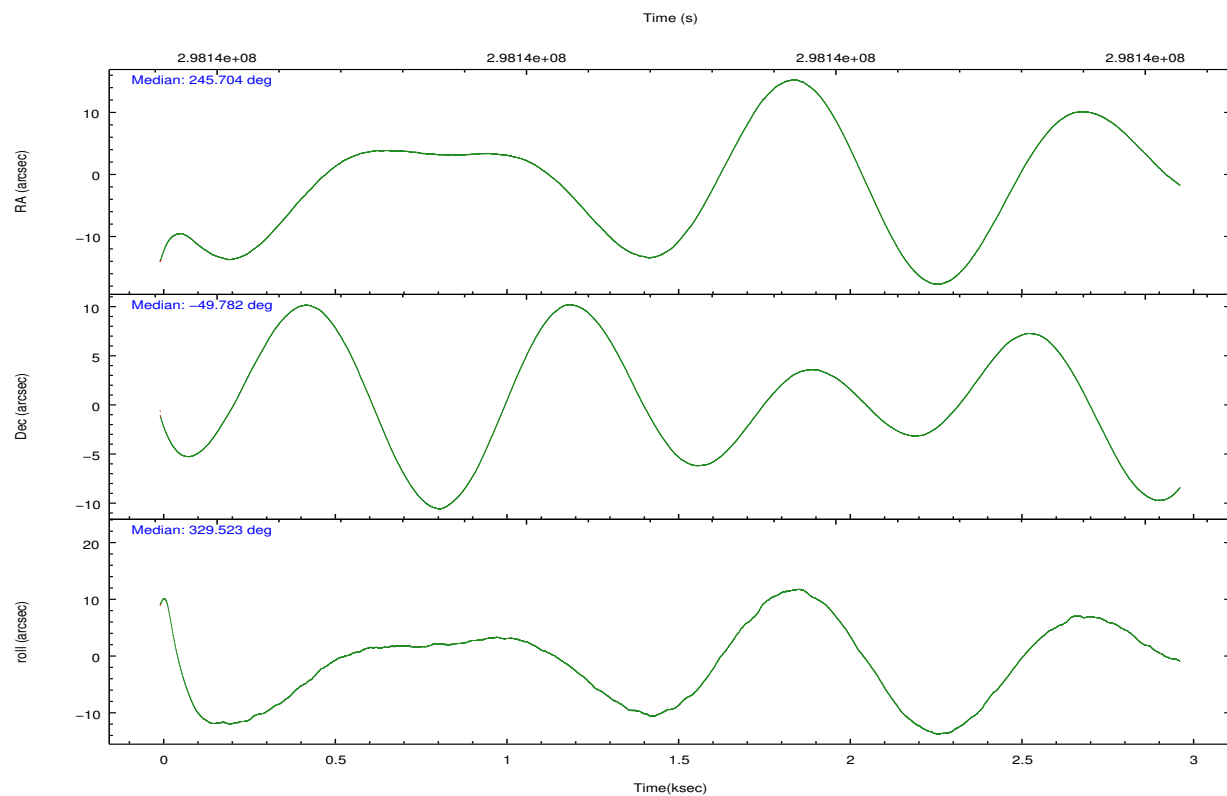
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	30809	28302	44624	27864	40060	35510	grade 0 events	1575	1579	2147	1365	1512	2622
rejected events	27261	24855	24169	24330	23121	27333		5%	5%	4%	4%	3%	7%
rejected %	88%	87%	54%	87%	57%	76%	grade 1 events	32	20	51	15	42	21
								0%	0%	0%	0%	0%	0%
							grade 2 events	758	666	6307	784	3459	1783
								2%	2%	14%	2%	8%	5%
							grade 3 events	296	277	716	335	1447	867
								0%	0%	1%	1%	3%	2%
							grade 4 events	312	333	689	346	1441	809
								1%	1%	1%	1%	3%	2%
							grade 5 events	1185	1311	3192	1281	3698	1793
								3%	4%	7%	4%	9%	5%
							grade 6 events	620	594	10642	709	9127	2103
								2%	2%	23%	2%	22%	5%
							grade 7 events	26031	23522	20880	23029	19334	25512
								84%	83%	46%	82%	48%	71%

## 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	245.660996	245.703248946419	CCD I2 on	O2	Y
[deg] Pointing Dec	-49.782042	-49.78191913118793	CCD I3 on	O3	Y
[deg] Pointing Roll	329.342466	329.5314580006768	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)	298135137.184000	298134082.32799	CCD S5 on	N	N
Observation start date	2007-06-13T15:17:52	2007-06-13T15:01:22	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	298137937.184000	298138164.39069	On-chip summing requested	N	N
Observation end date	2007-06-13T16:04:32	2007-06-13T16:09:24	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



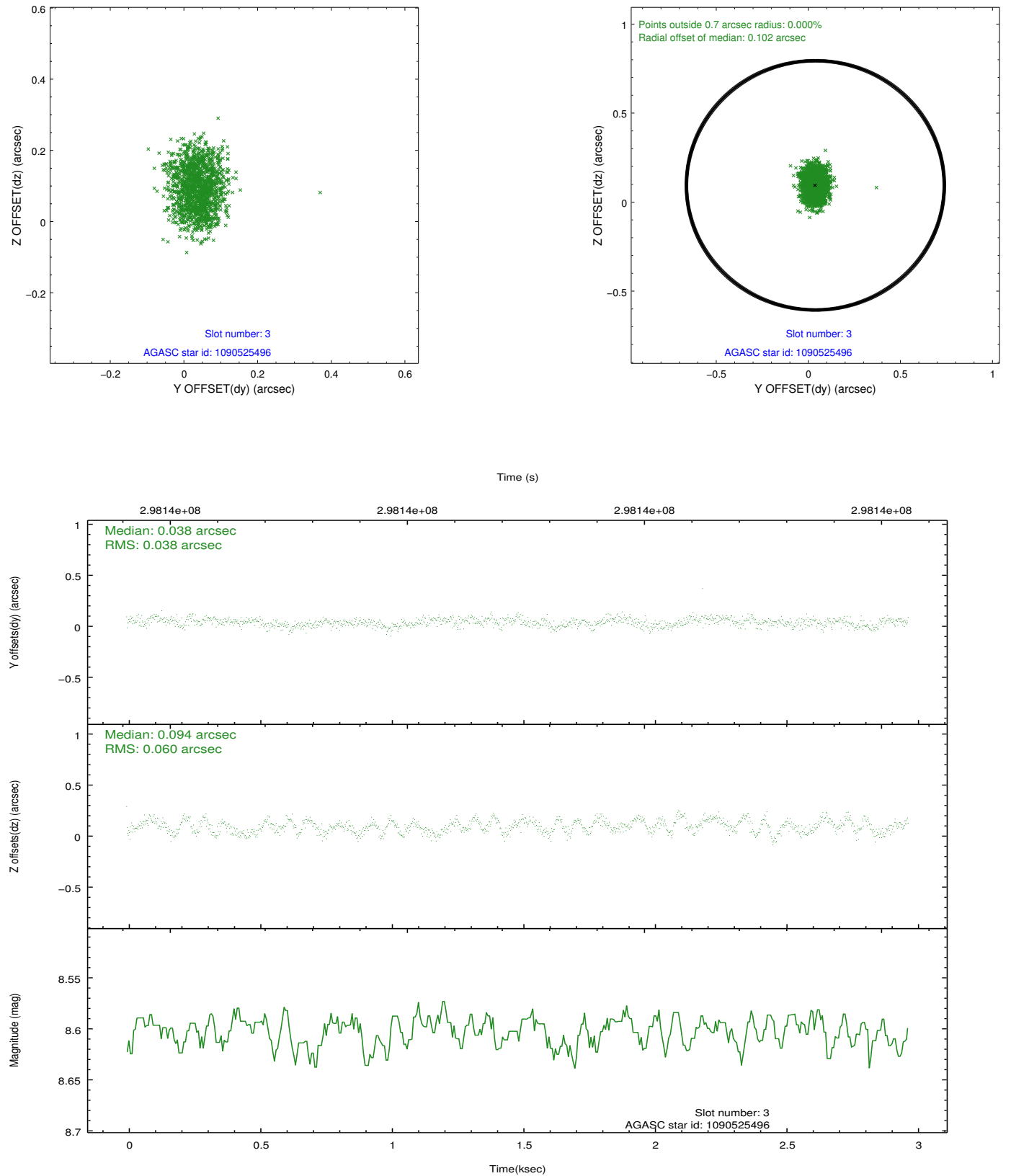


Slot Statistics

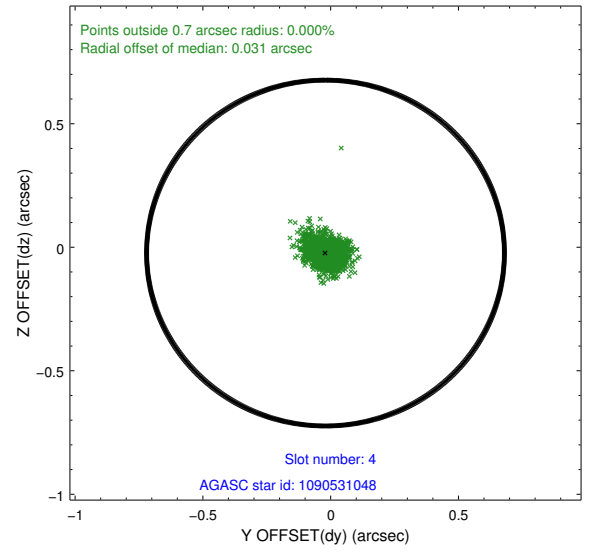
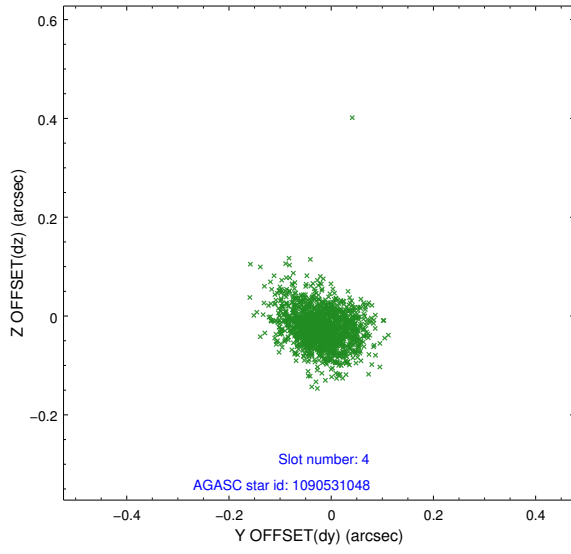
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	725	0.032	-0.050	0.007	0.013	0.000000	0.000000	929.15	-1732.31
1	FID	ACIS-S-4	7.19	725	0.160	0.024	0.006	0.010	0.000000	0.000000	2147.87	169.70
2	FID	ACIS-S-5	7.22	725	-0.219	0.039	0.006	0.011	0.000000	0.000000	-1817.22	165.73
3	GUIDE	1090525496	8.60	1448	0.038	0.094	0.077	0.118	244.777039	-50.152945	-1066.10	-2198.48
4	GUIDE	1090531048	8.38	1450	-0.020	-0.024	0.060	0.102	246.008201	-50.442227	1897.69	-1641.17
5	GUIDE	1090520992	7.49	1450	-0.003	-0.098	0.064	0.103	245.489527	-49.662443	-561.20	165.21
6	GUIDE	1090525744	8.19	1449	-0.008	0.076	0.074	0.118	245.649389	-50.543894	1376.25	-2372.42
7	GUIDE	1090527696	7.20	1449	-0.009	-0.045	0.063	0.107	246.414931	-49.424565	868.10	1998.11

## 2.4 Star Slots

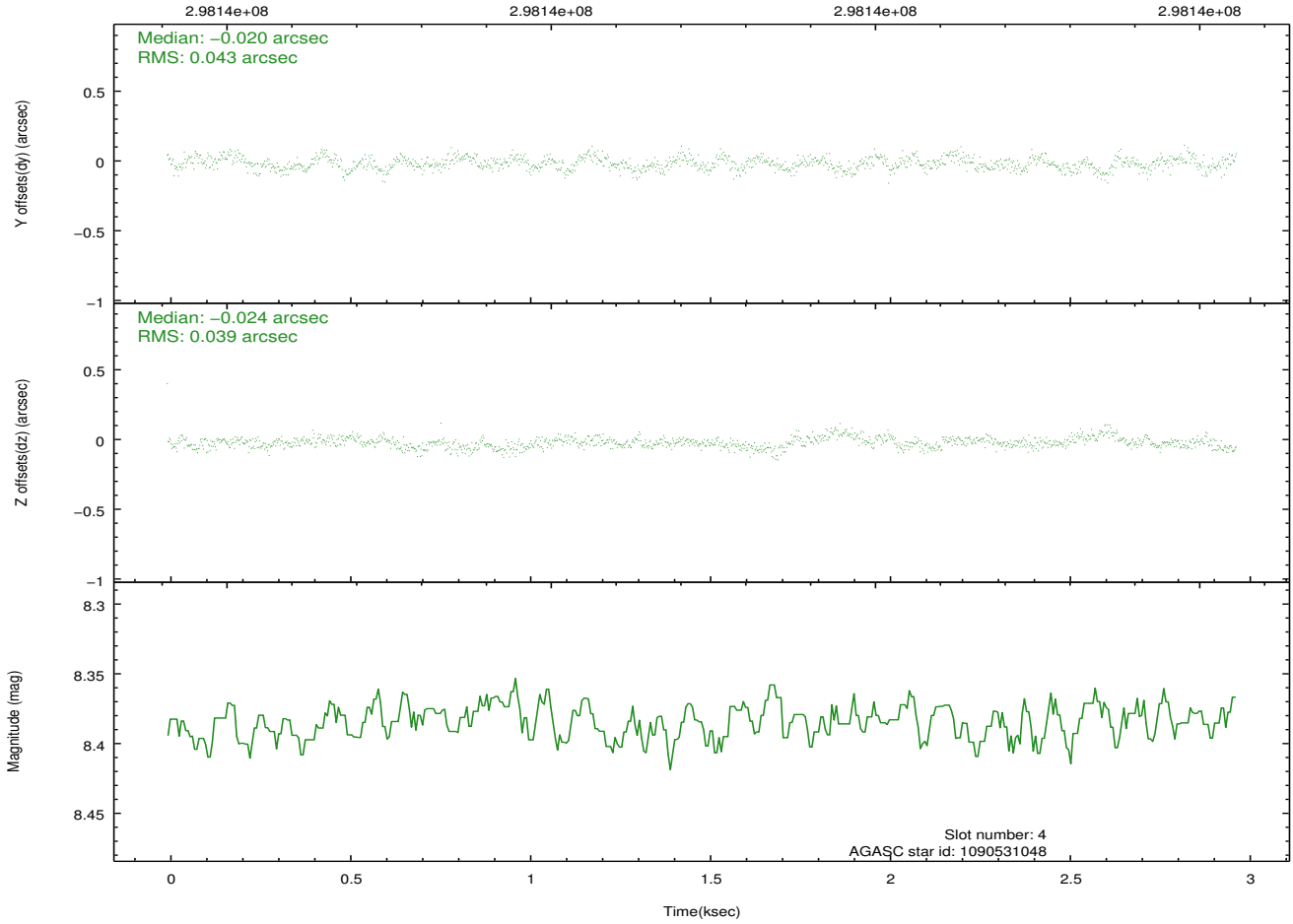
### 2.4.1 Slot 3



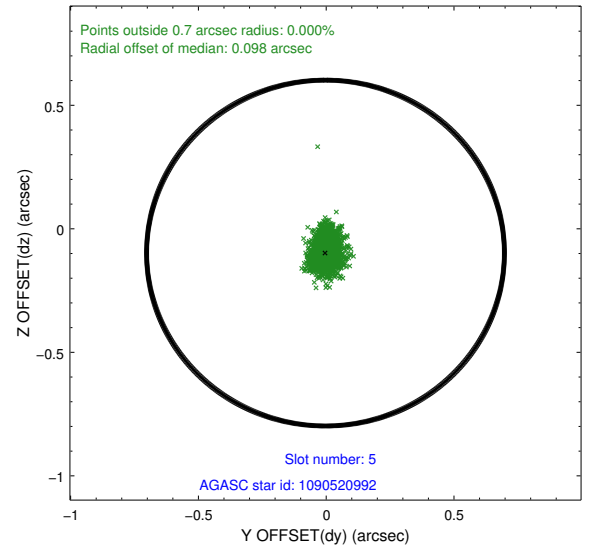
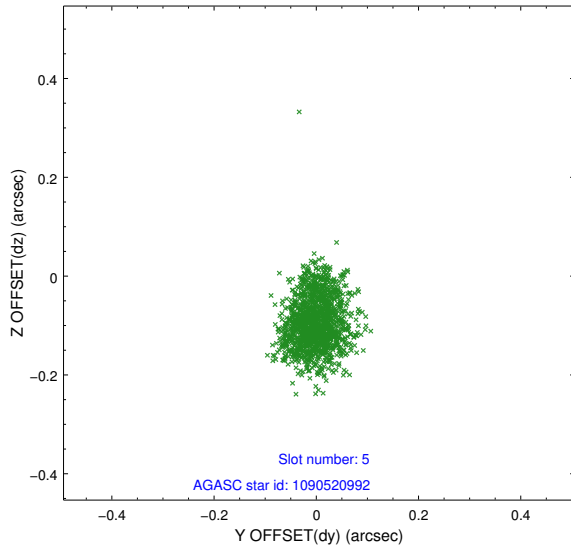
## 2.4.2 Slot 4



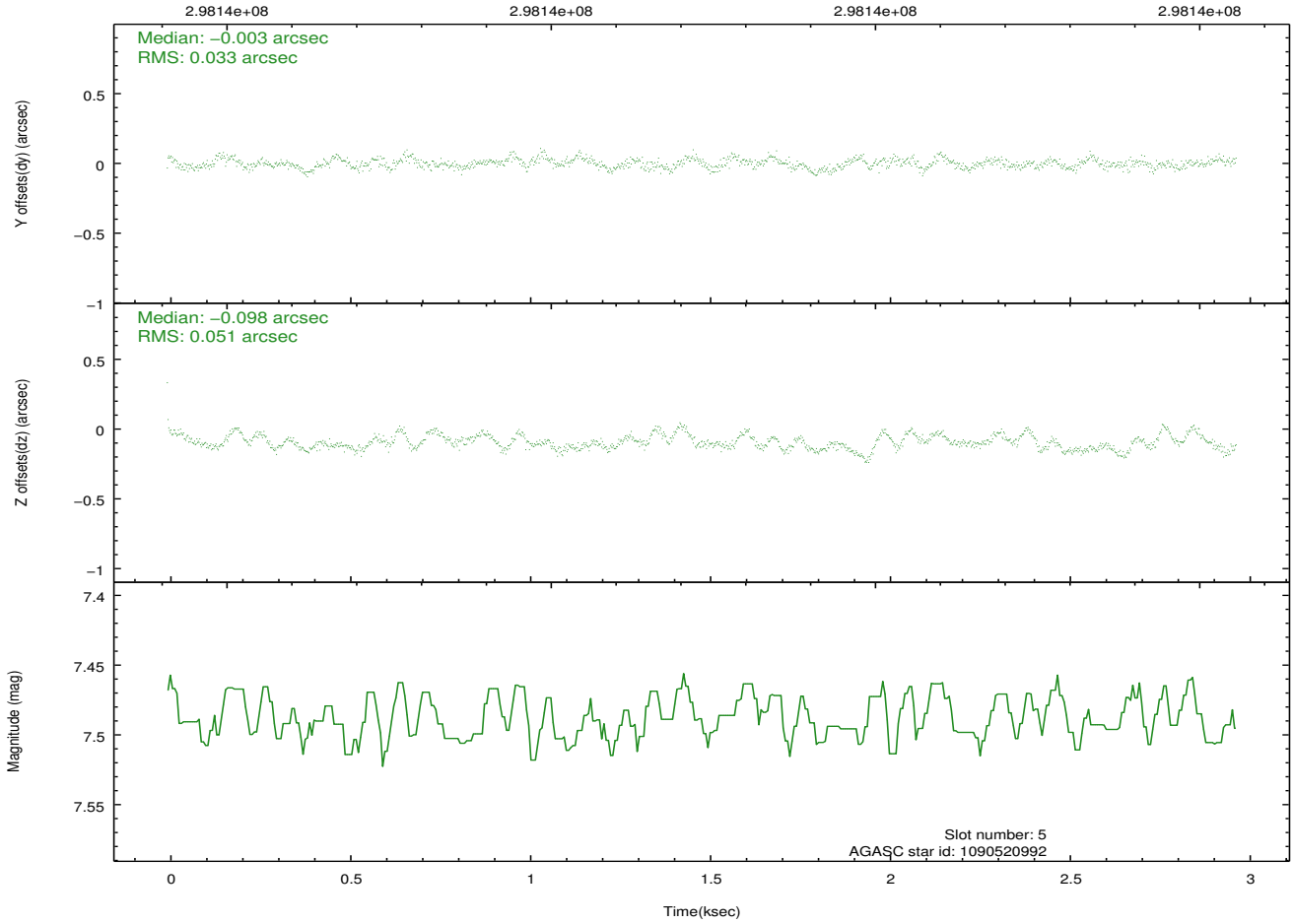
Time (s)



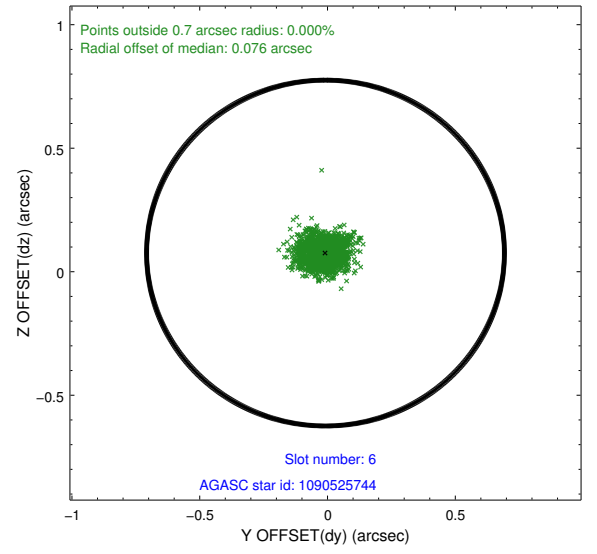
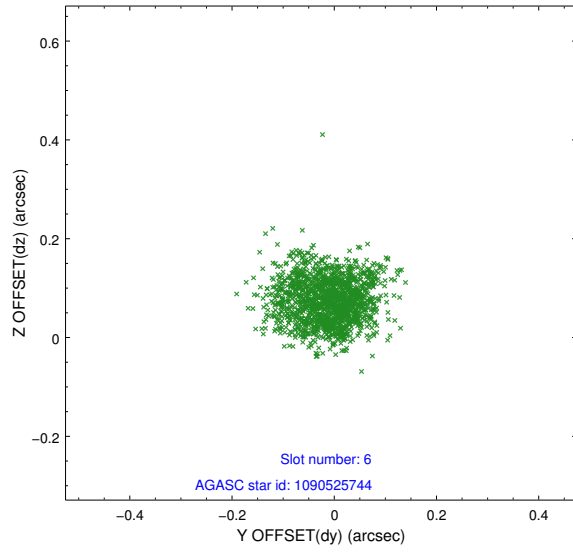
### 2.4.3 Slot 5



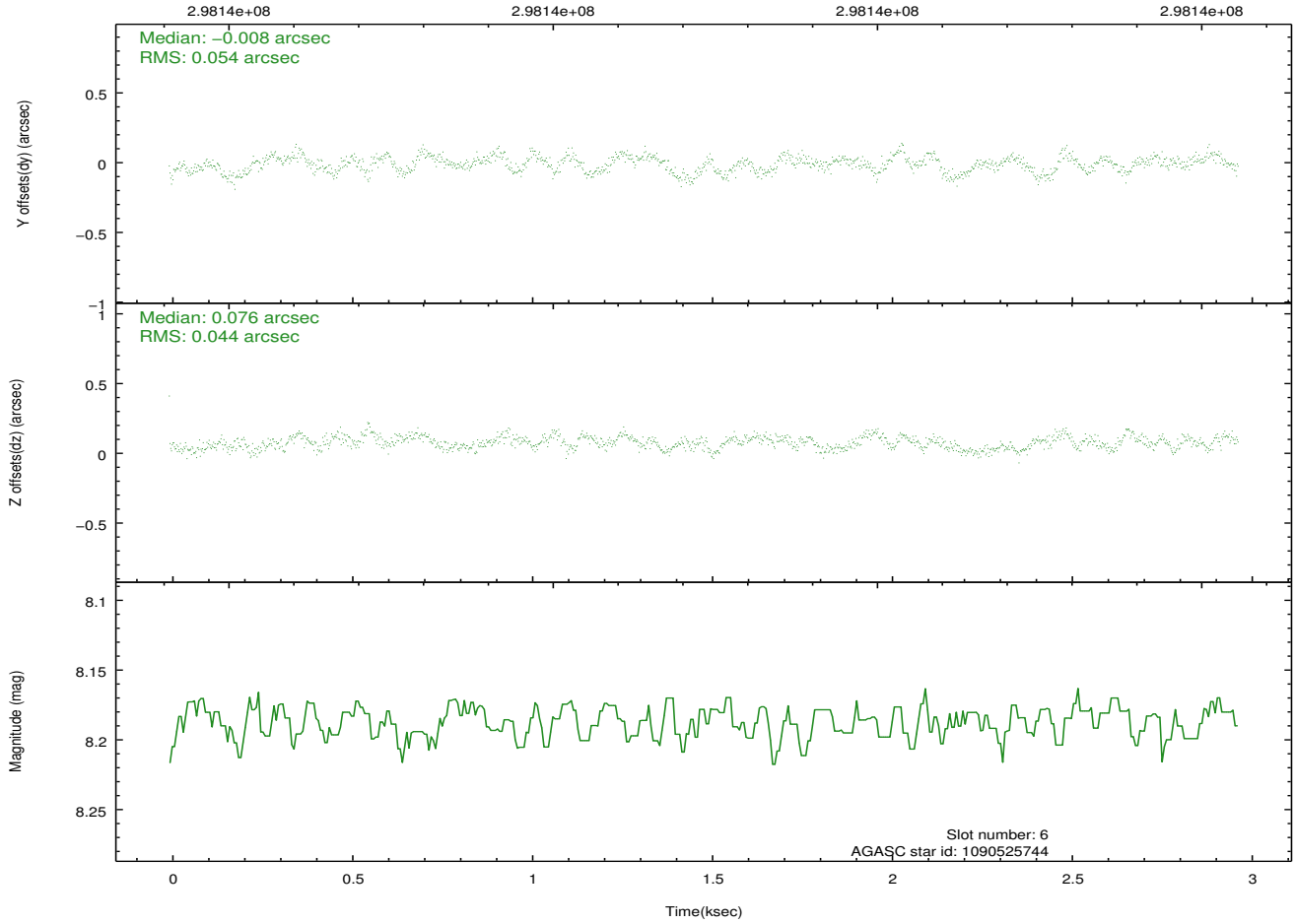
Time (s)



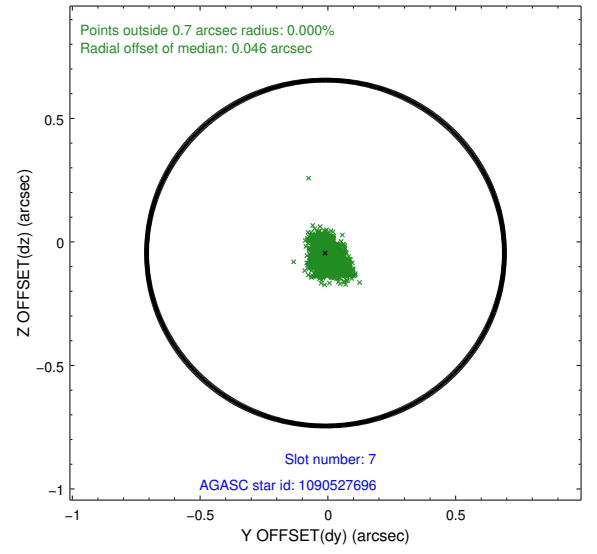
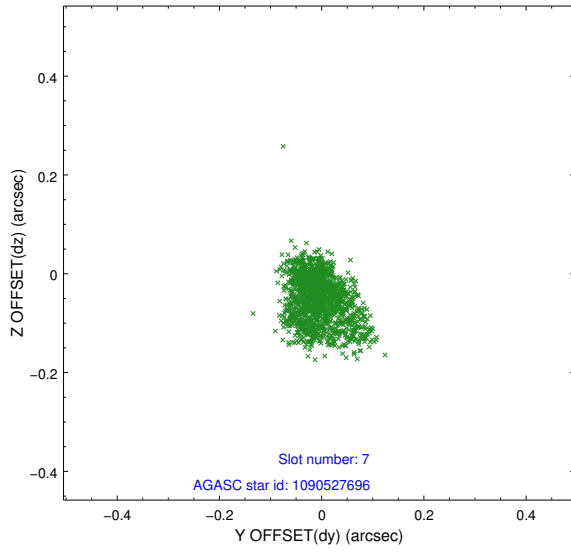
## 2.4.4 Slot 6



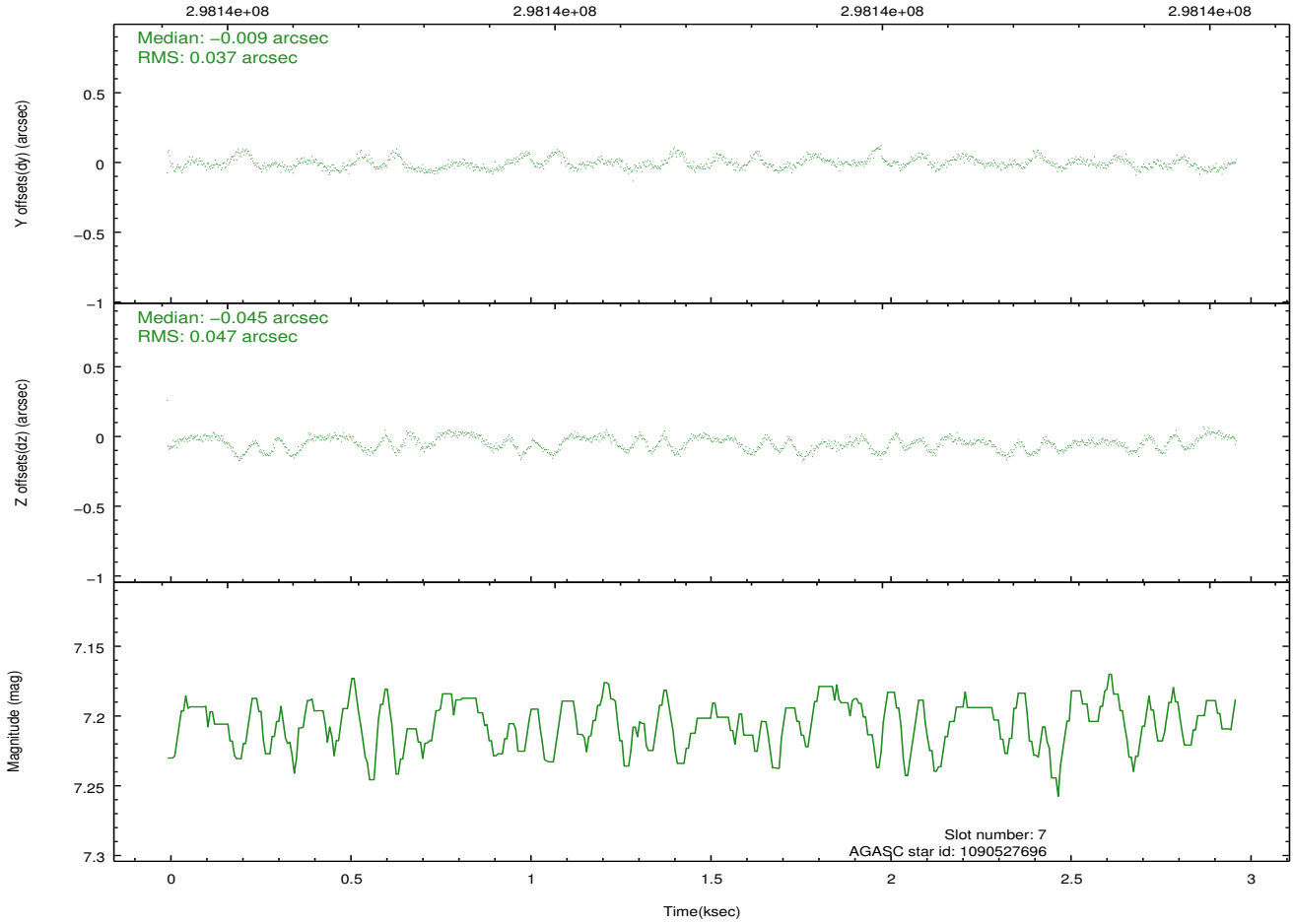
Time (s)



## 2.4.5 Slot 7

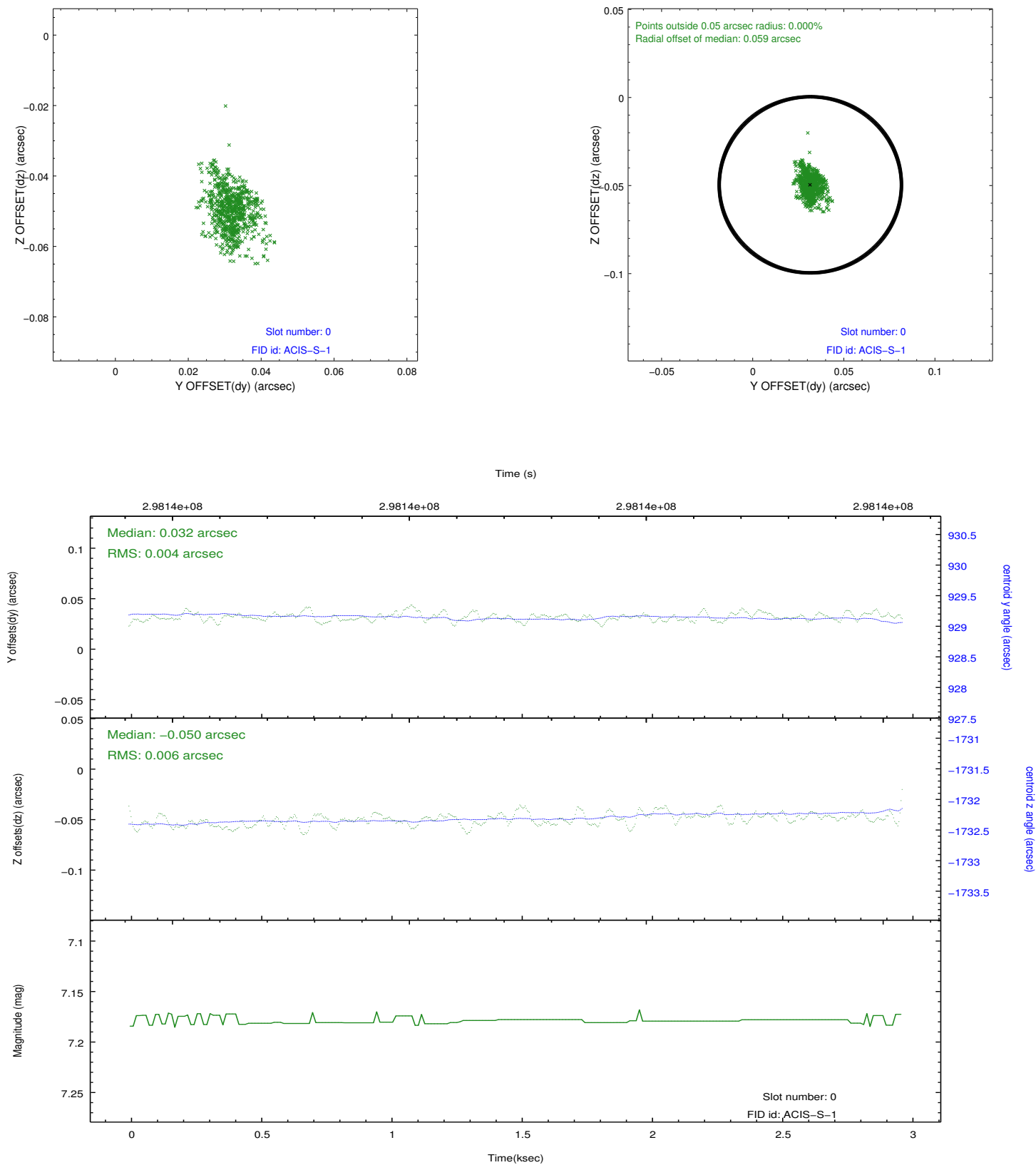


Time (s)

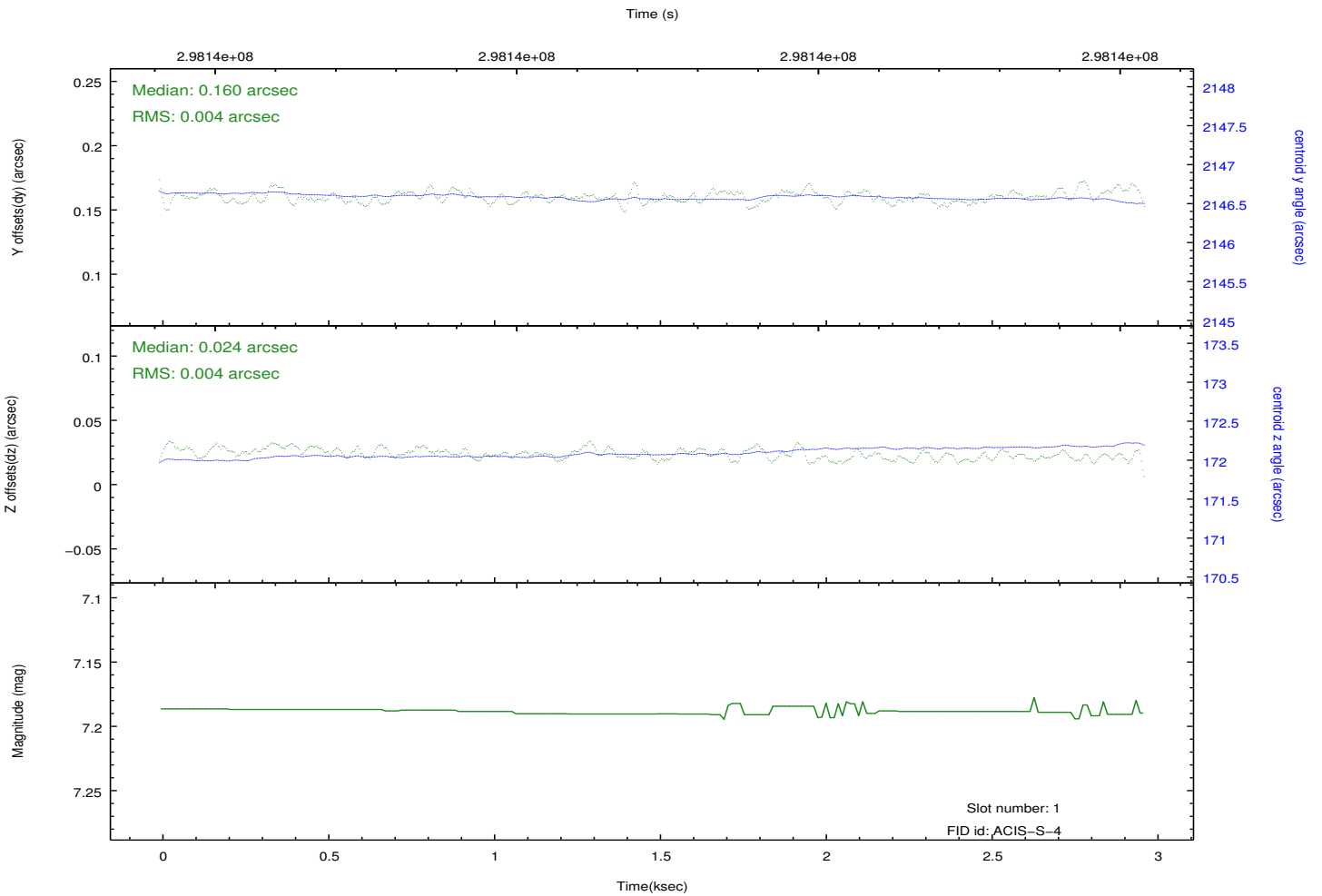
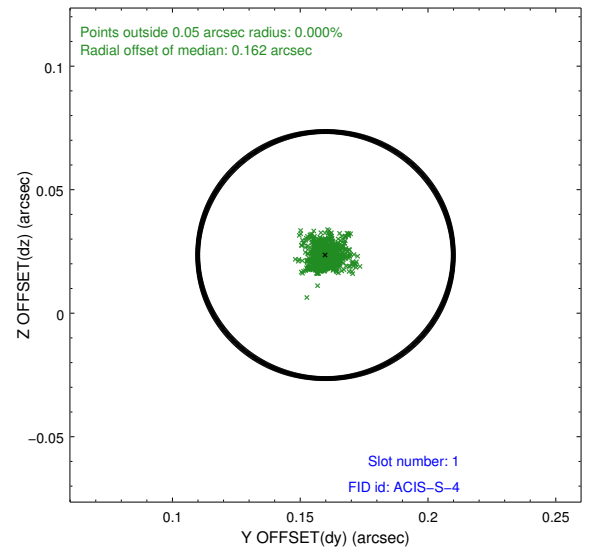
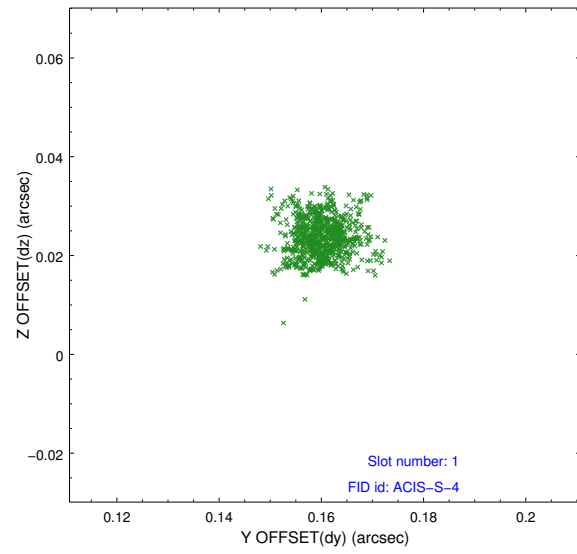


## 2.5 FID Slots

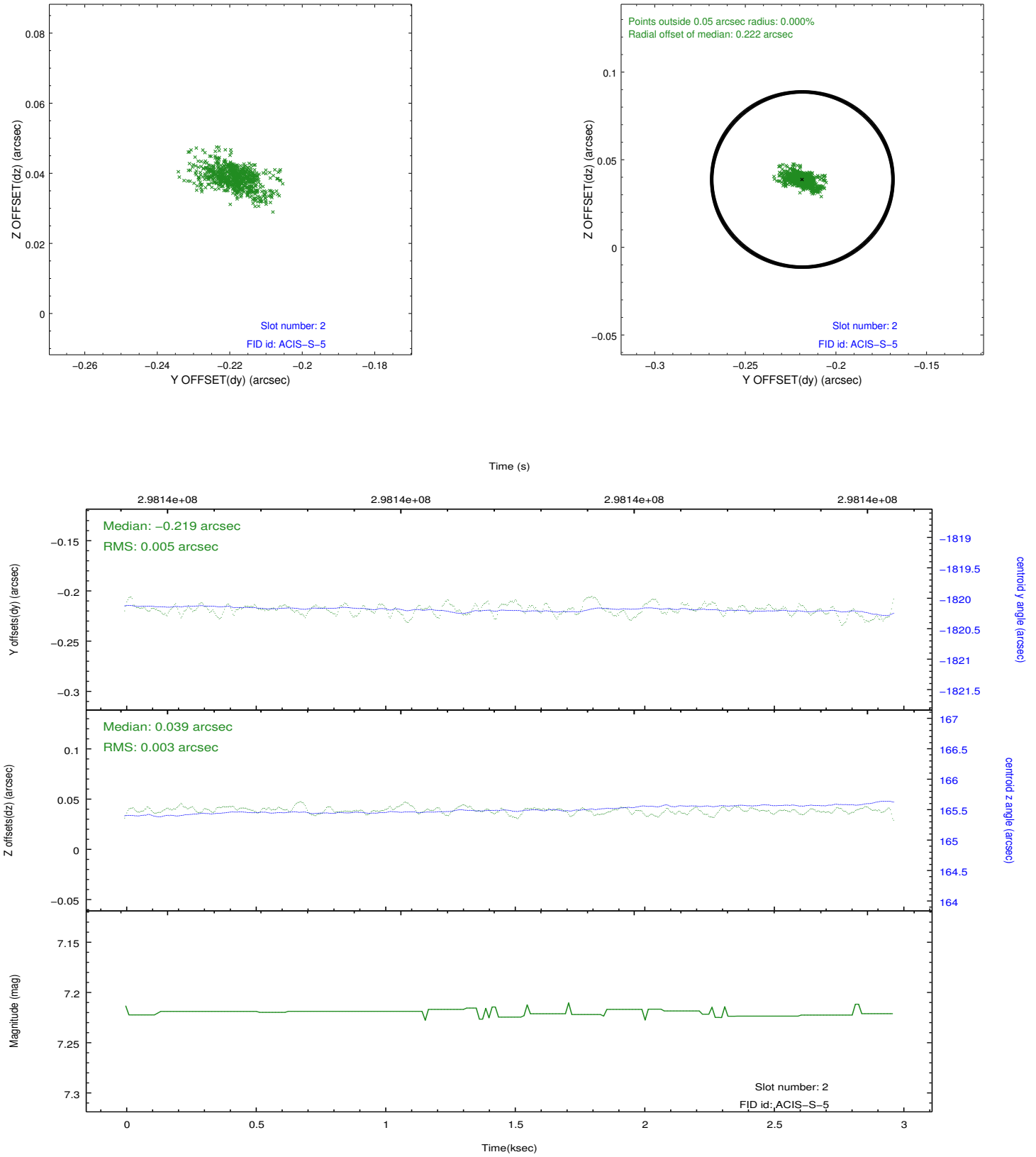
### 2.5.1 Slot 0



## 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)	2012.04.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.93759998

### A.2 Comments