

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11700 - L2 Version 4  
Chandra X-Ray Center

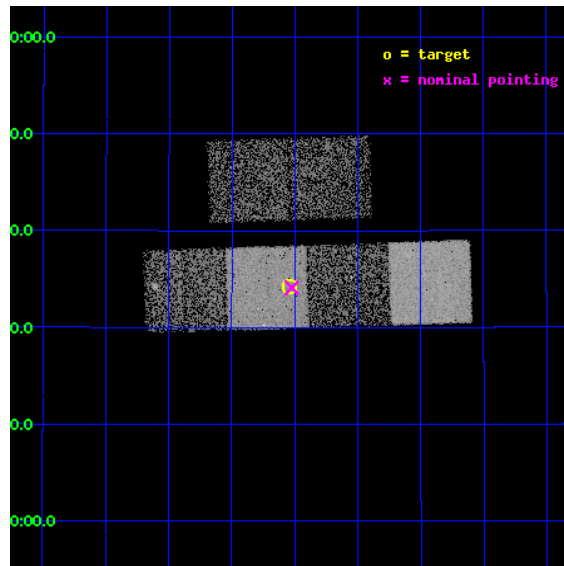
L2 Processing Date : Jun 25 2012

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# 1 Front

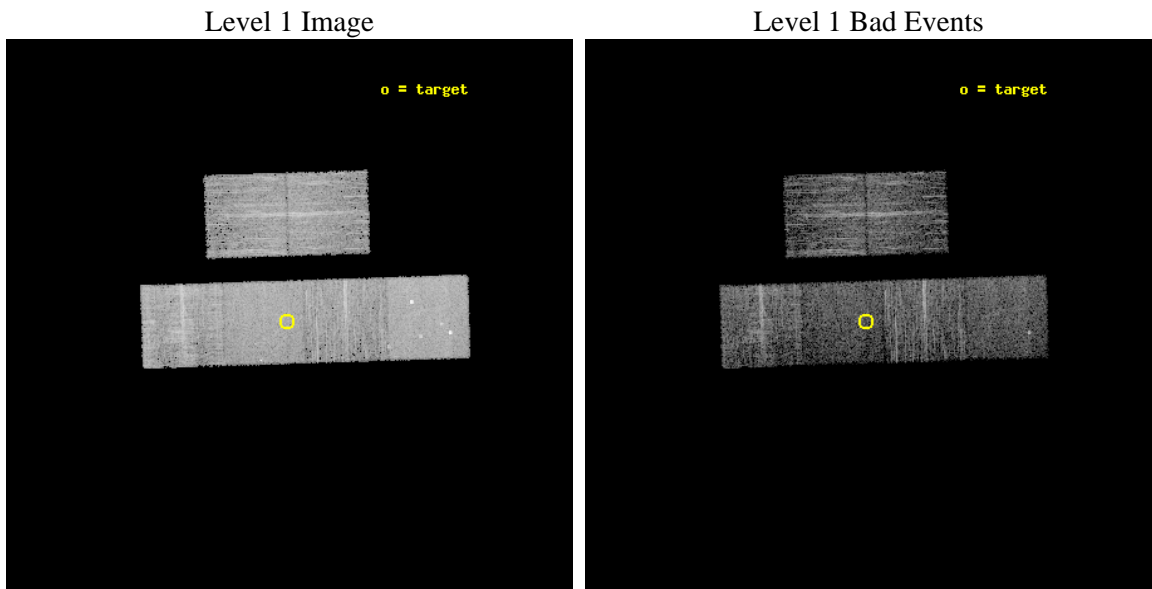
seq_num	702285	Sequence number
obs_id	11700	Observation id
title	After the Fall: Fading AGN in Post-starburst Galaxies	Proposal tit
observer	Dr. Christy Tremonti	Principal investigator
object	SDSS J161332.53+283414.8	Source name
dtycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	243.385417	Observer's specified target RA [deg]
dec_targ	28.570778	Observer's specified target Dec [deg]
ra_nom	243.38061602196	Nominal RA [deg]
dec_nom	28.568387057574	Nominal Dec [deg]
roll_nom	178.15896221654	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5046.3999812603	Sum of GTIs [s]
lvertime	4982.4994261203	Livetime [s]
ontime2	5046.3999812603	Sum of GTIs [s]
ontime3	5046.3773992658	Sum of GTIs [s]
ontime5	5046.3999812603	Sum of GTIs [s]
ontime6	5046.3999812603	Sum of GTIs [s]
ontime7	5046.3999812603	Sum of GTIs [s]
ontime8	5039.8543787599	Sum of GTIs [s]
l2events	62311	Number of level 2 events



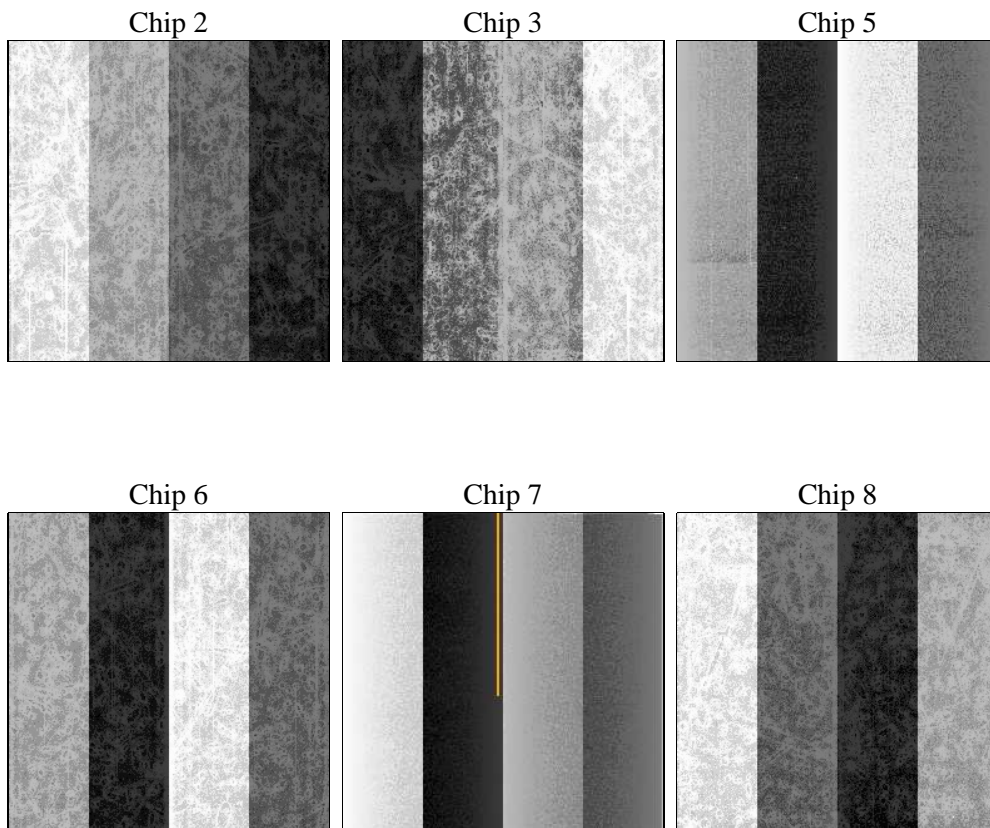
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5046.3999812603	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime2	5046.3999812603	Sum of GTIs [s]
date	2012-06-26T01:45:40	Date and time of file creation	ontime3	5046.3773992658	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5046.3999812603	Sum of GTIs [s]
			ontime6	5046.3999812603	Sum of GTIs [s]
			ontime7	5046.3999812603	Sum of GTIs [s]
			ontime8	5039.8543787599	Sum of GTIs [s]
			l1events	273158	Number of level 1 events

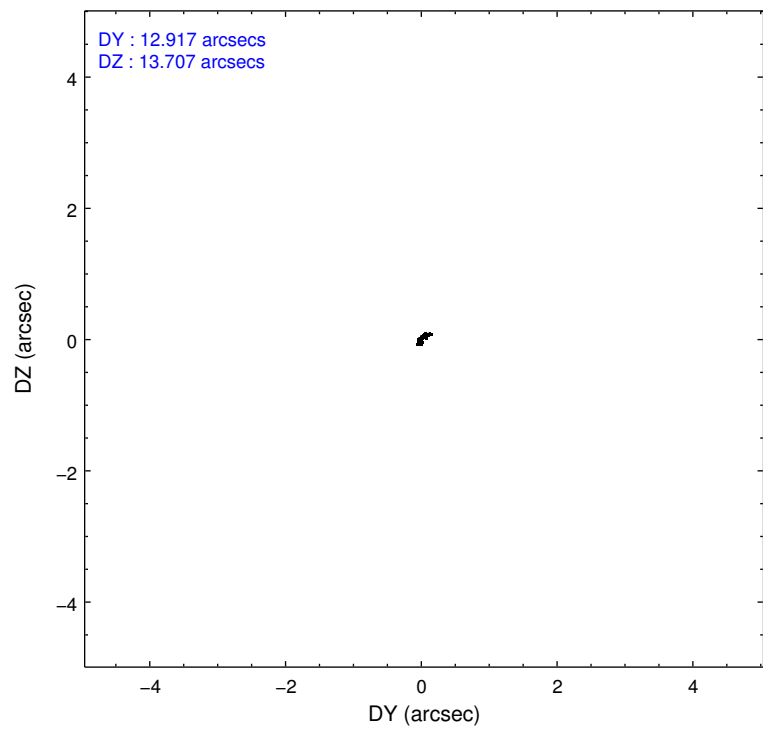
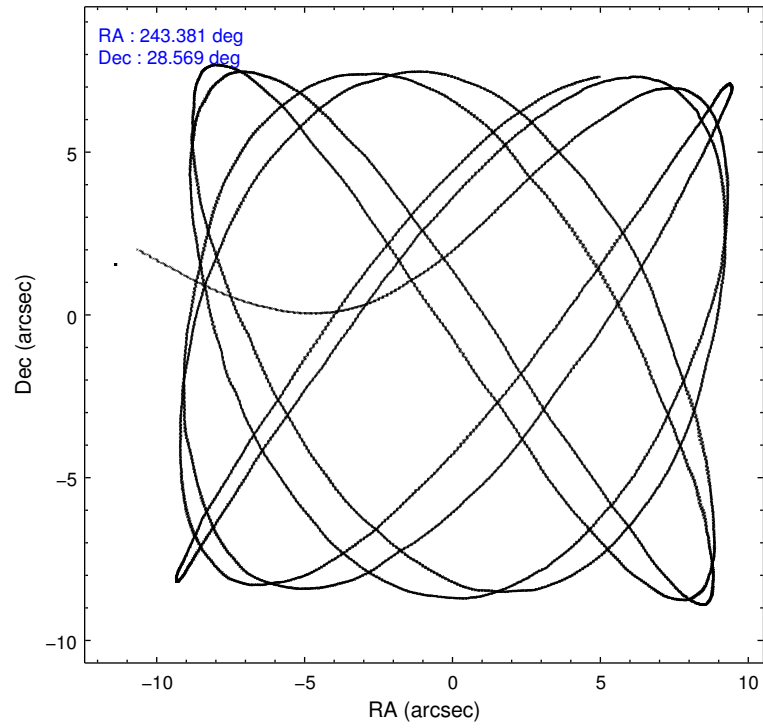
### 2.1.4 Events

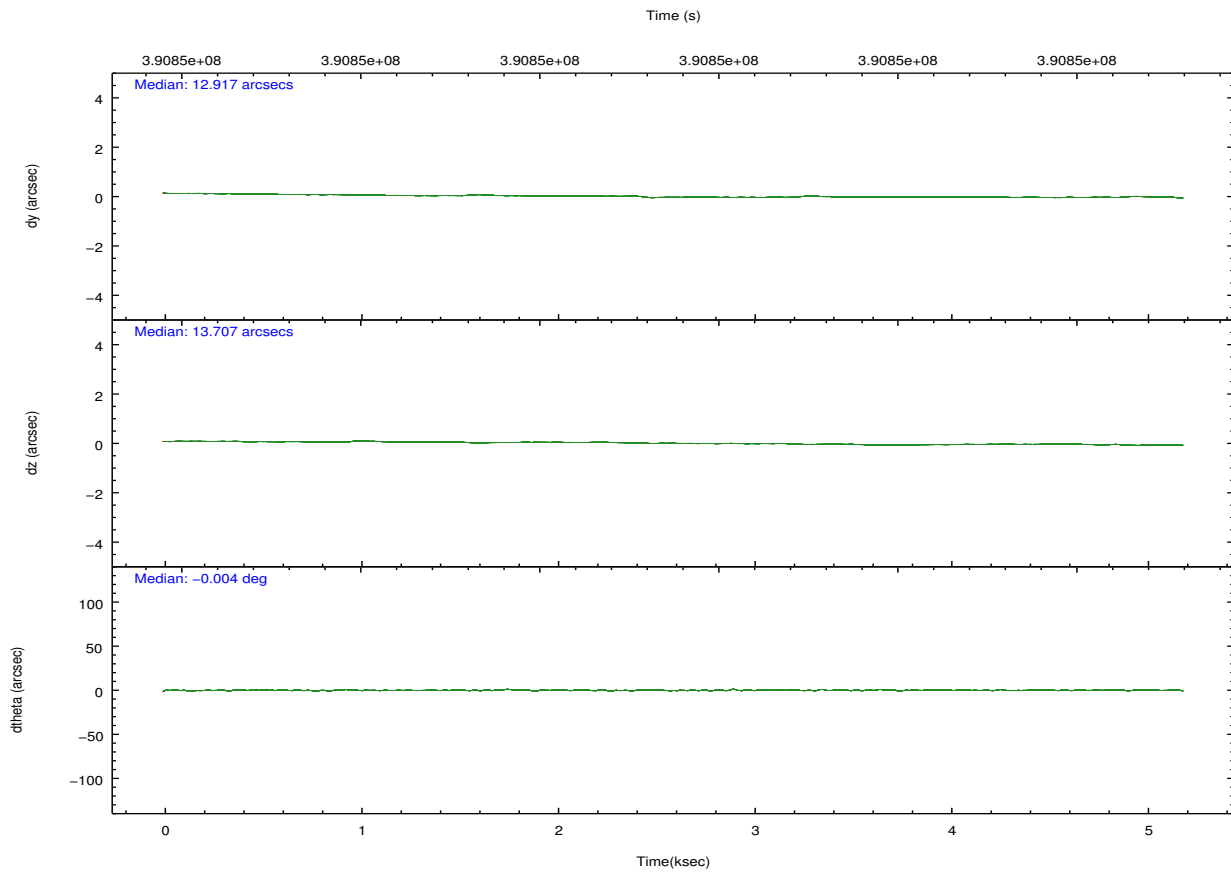
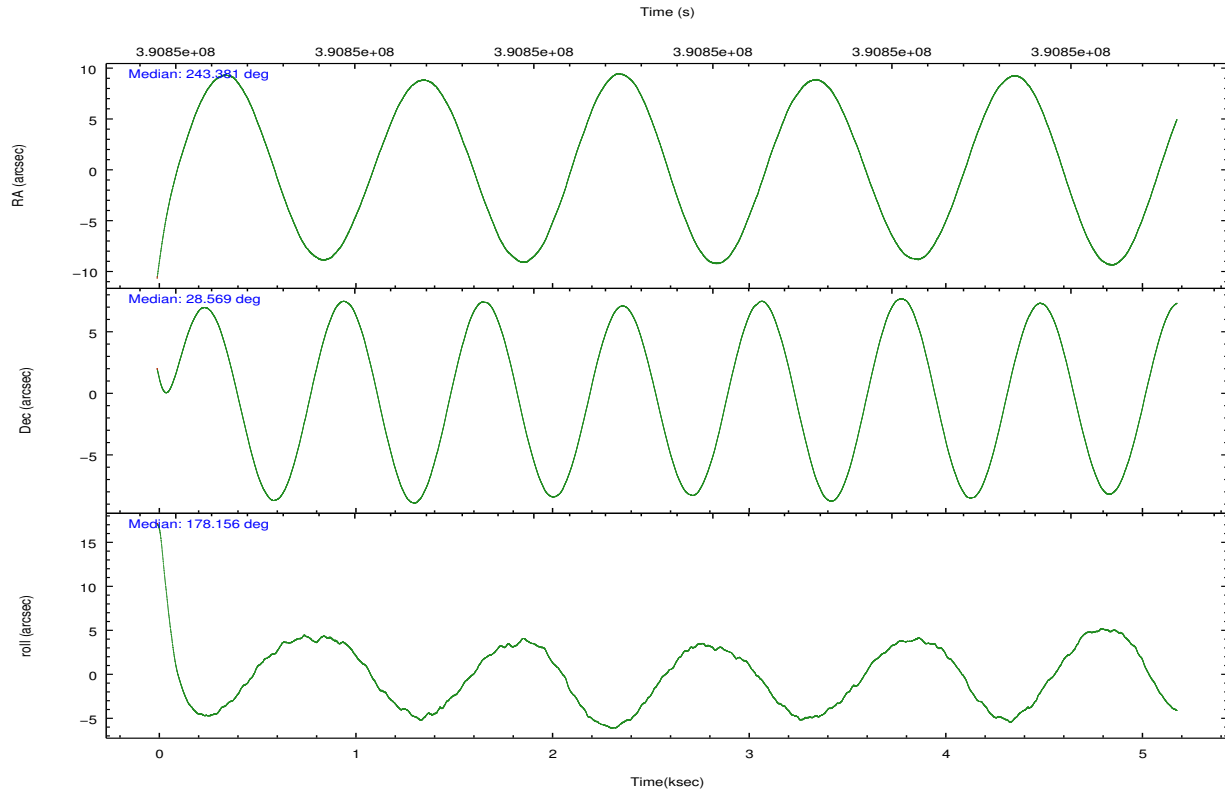
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	37660	38638	58715	40860	46460	50825	grade 0 events	1487	1332	3825	1542	2053	3960
rejected events	33586	34908	29088	36492	25329	37705		3%	3%	6%	3%	4%	7%
rejected %	89%	90%	49%	89%	54%	74%	grade 1 events	25	23	171	16	50	38
								0%	0%	0%	0%	0%	0%
							grade 2 events	976	859	8609	1000	4336	3124
								2%	2%	14%	2%	9%	6%
							grade 3 events	417	389	1167	456	1917	1357
								1%	1%	1%	1%	4%	2%
							grade 4 events	415	393	1063	440	1834	1310
								1%	1%	1%	1%	3%	2%
							grade 5 events	1483	1637	4403	1662	4806	2427
								3%	4%	7%	4%	10%	4%
							grade 6 events	782	764	15007	931	11027	3444
								2%	1%	25%	2%	23%	6%
							grade 7 events	32075	33241	24470	34813	20437	35165
								85%	86%	41%	85%	43%	69%

## 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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	243.407880	243.3806160219607	CCD I2 on	O1	Y
[deg] Pointing Dec	28.581594	28.56838705757428	CCD I3 on	O2	Y
[deg] Pointing Roll	177.989260	178.158962216539	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O4	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O3	Y
[s] Observation start time (MET)	390849328.184000	390848100.07856	CCD S5 on	N	N
Observation start date	2010-05-21T17:14:22	2010-05-21T16:55:00	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	390854328.184000	390855205.89142	On-chip summing requested	N	N
Observation end date	2010-05-21T18:37:42	2010-05-21T18:53:25	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect



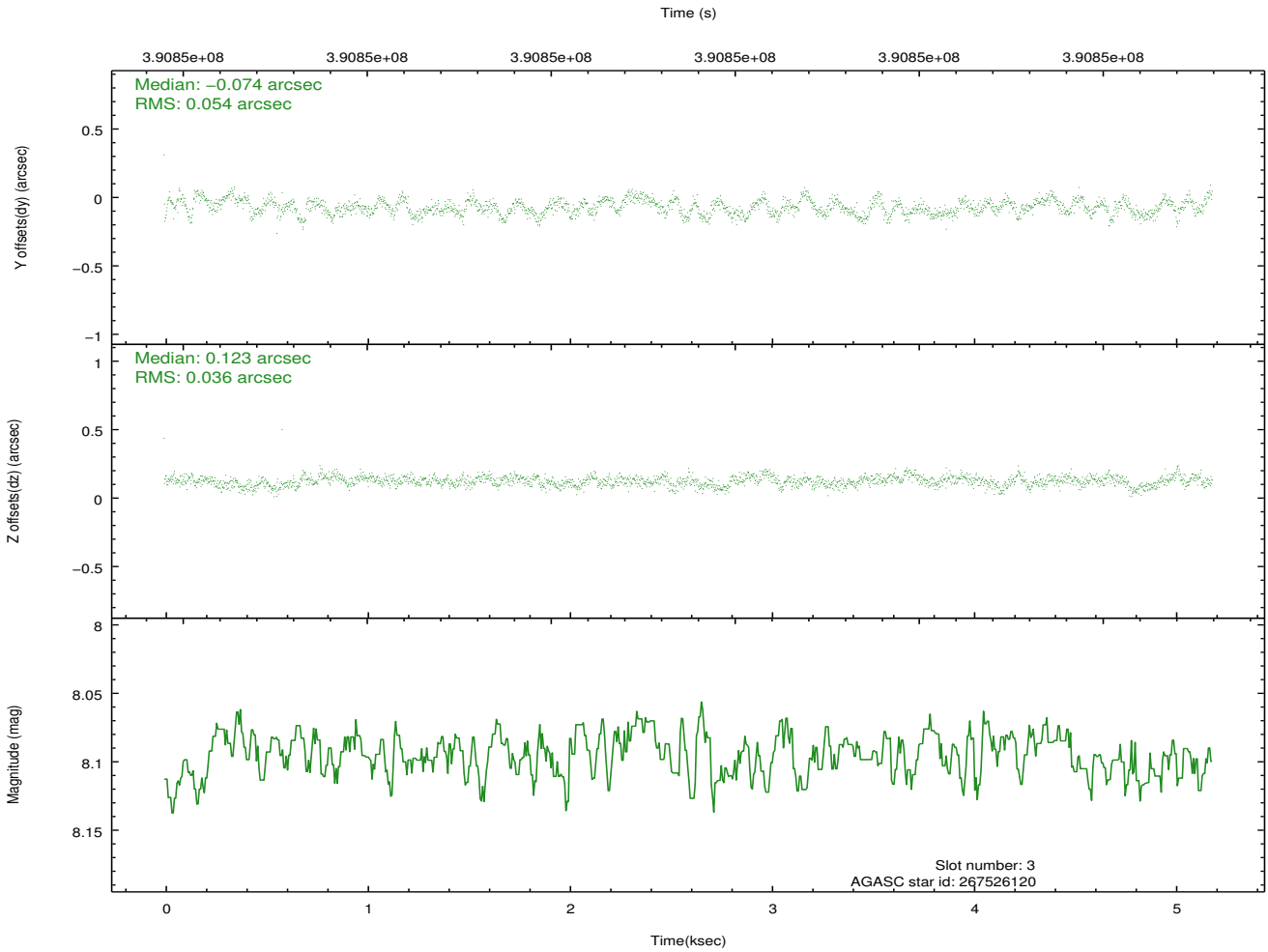
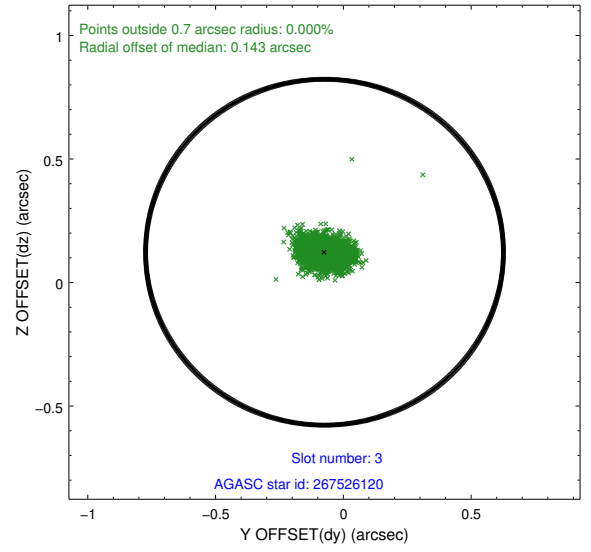
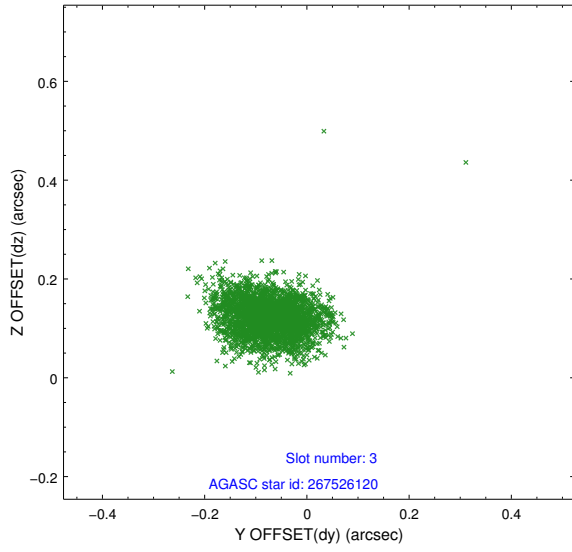


### Slot Statistics

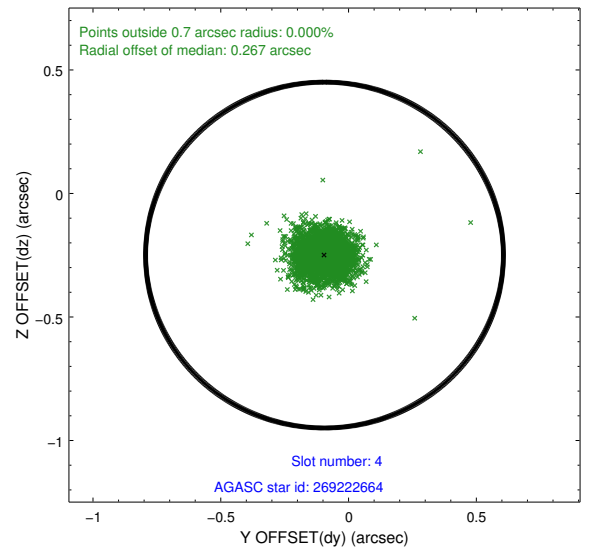
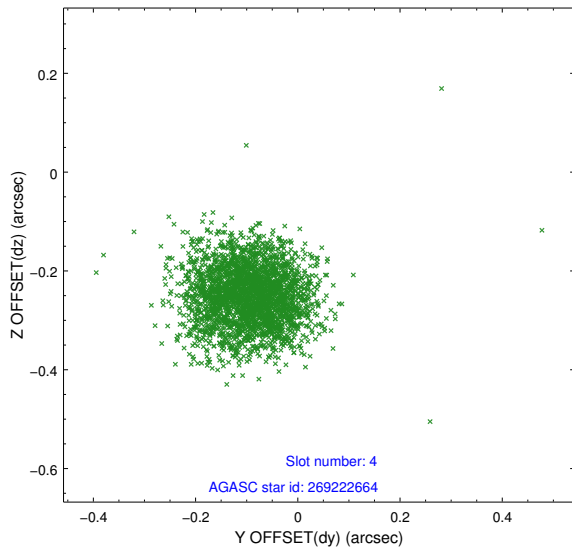
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.93	1266	-0.026	-0.037	0.007	0.012	0.000000	0.000000	-765.87	-1735.10
1	FID	ACIS-S-4	7.02	1266	0.131	0.022	0.008	0.014	0.000000	0.000000	2147.03	172.24
2	FID	ACIS-S-5	7.05	1266	-0.137	0.023	0.007	0.012	0.000000	0.000000	-1817.33	167.24
3	GUIDE	267526120	8.10	2531	-0.074	0.123	0.068	0.111	242.722142	29.141668	2226.22	-1945.11
4	GUIDE	269222664	9.06	2529	-0.094	-0.249	0.092	0.145	243.194465	28.531507	669.39	202.86
5	GUIDE	269225128	7.71	2531	-0.077	-0.080	0.067	0.109	242.848875	28.438531	1752.07	573.85
6	GUIDE	269229408	9.11	2527	0.125	-0.066	0.081	0.128	244.113130	28.936543	-2173.78	-1361.29
7	GUIDE	269229456	9.87	2527	0.113	0.276	0.138	0.214	243.970626	29.185664	-1691.57	-2239.63

## 2.4 Star Slots

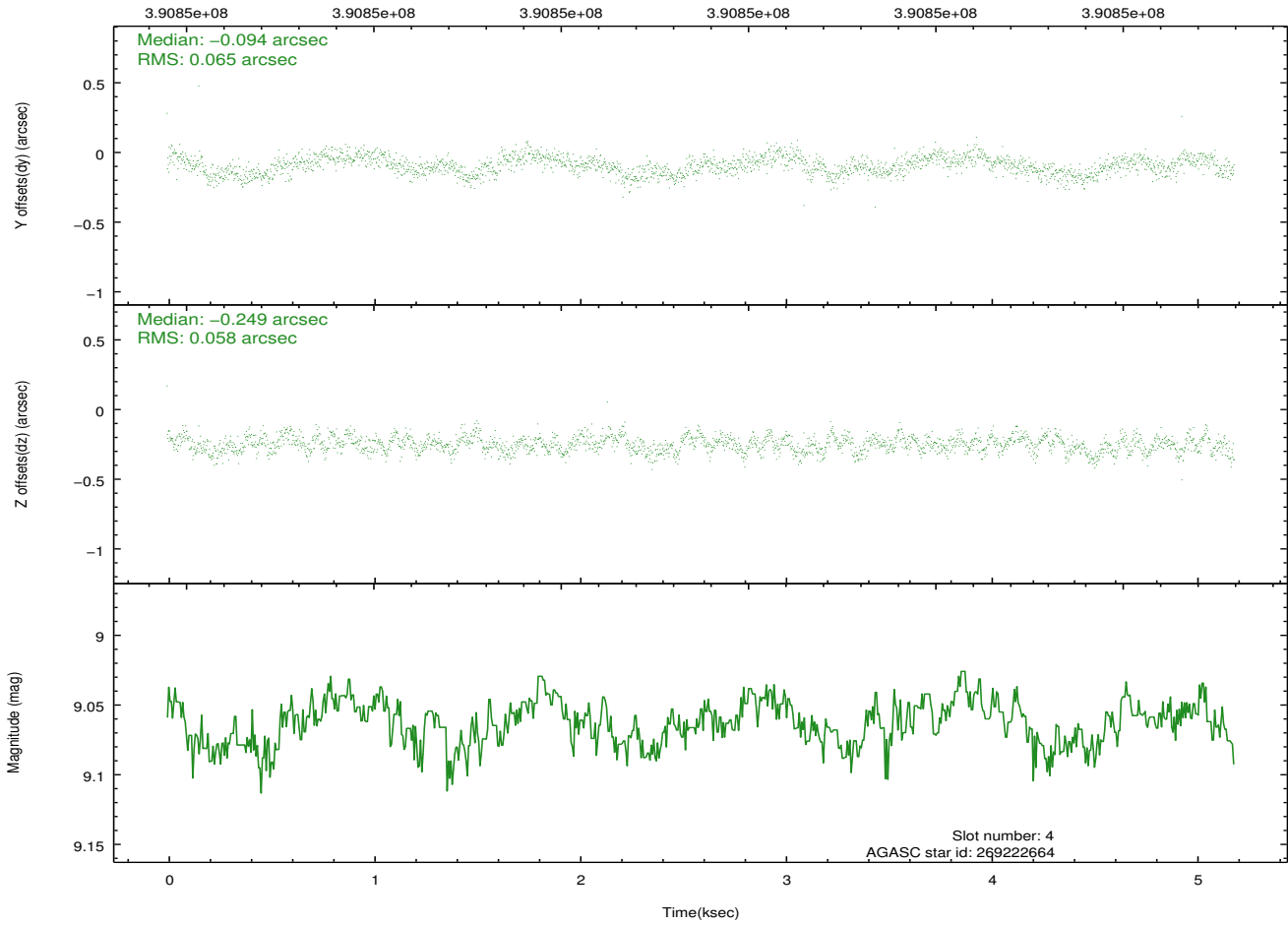
### 2.4.1 Slot 3



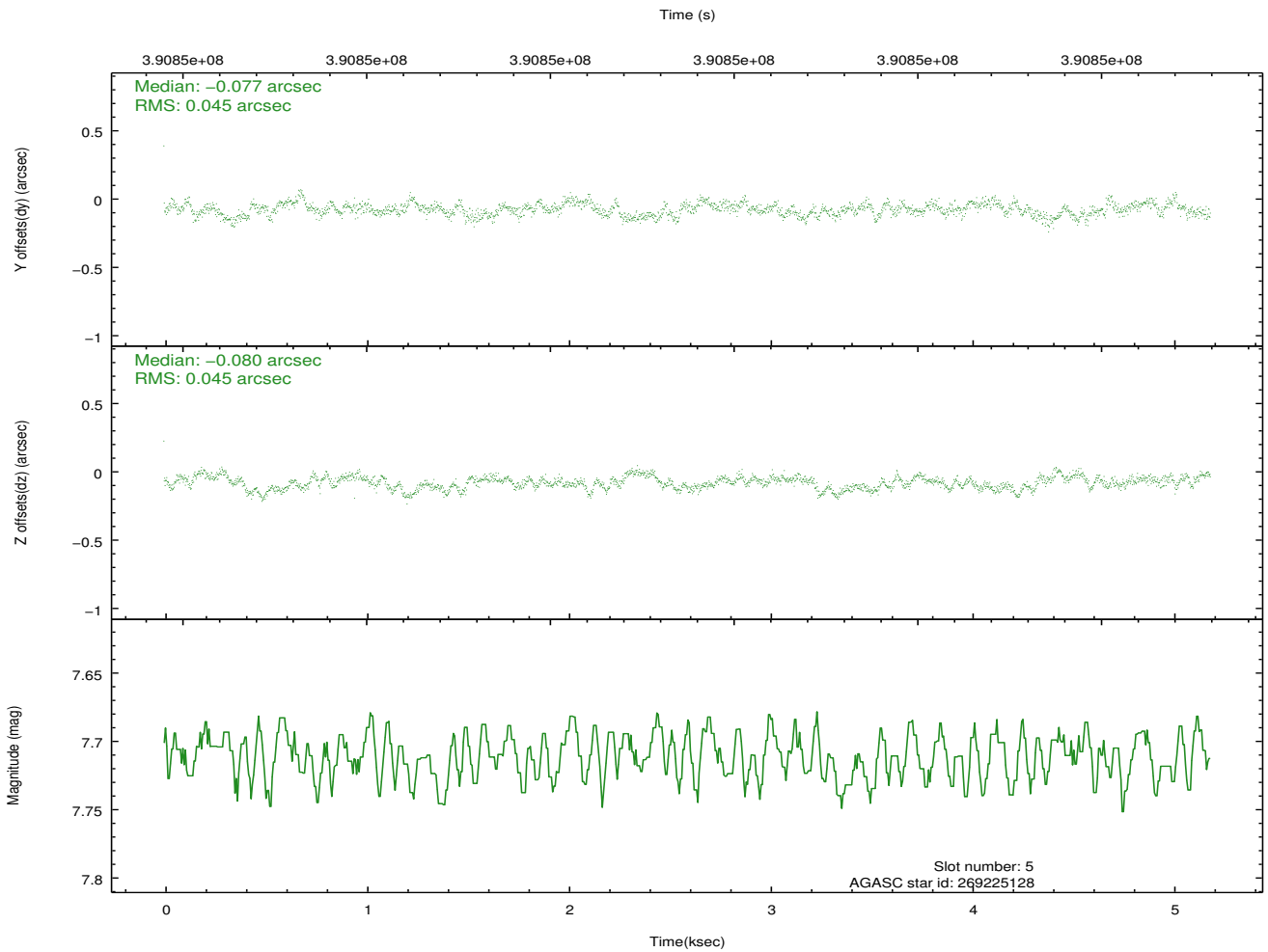
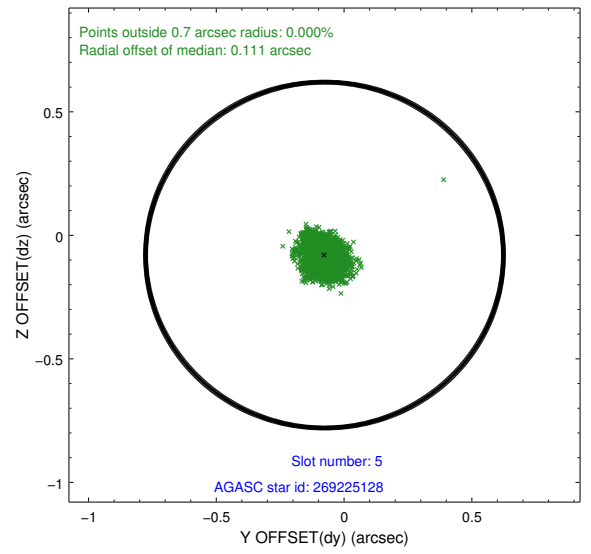
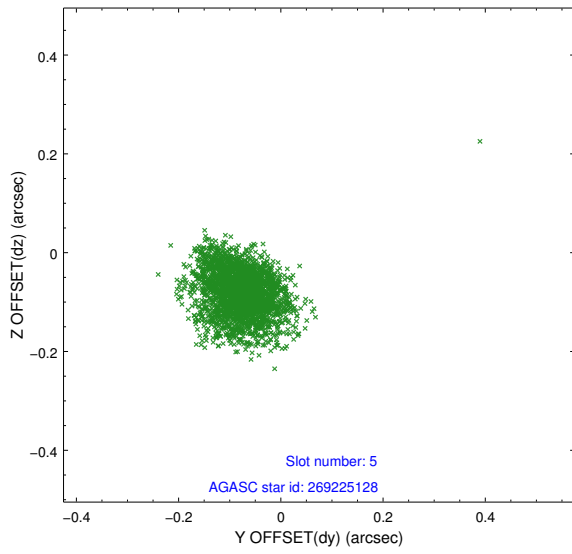
## 2.4.2 Slot 4



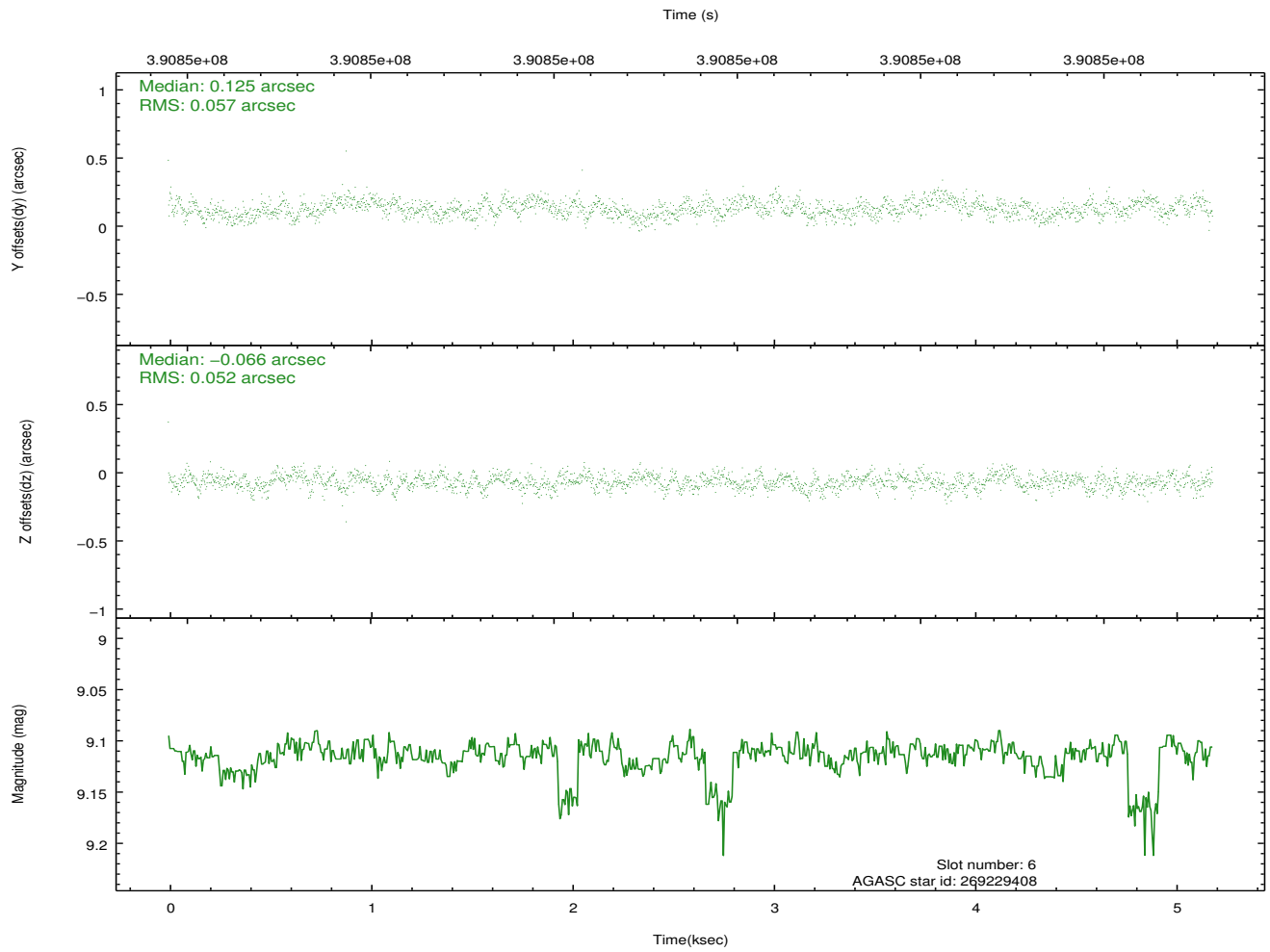
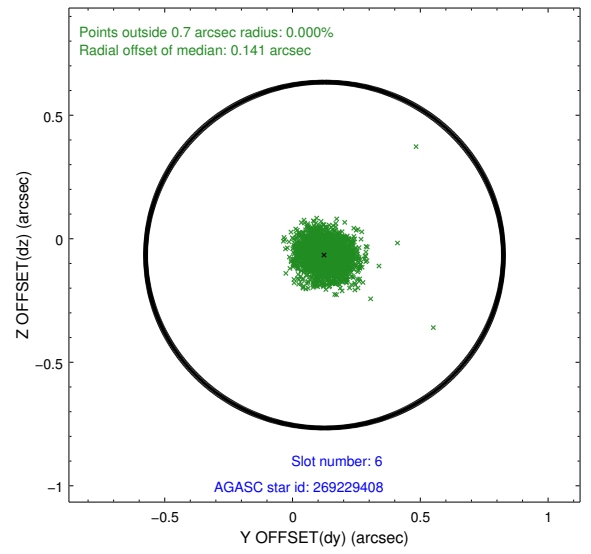
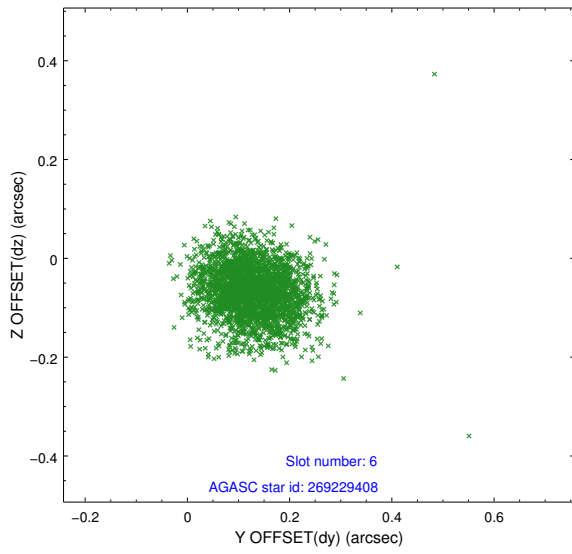
Time (s)



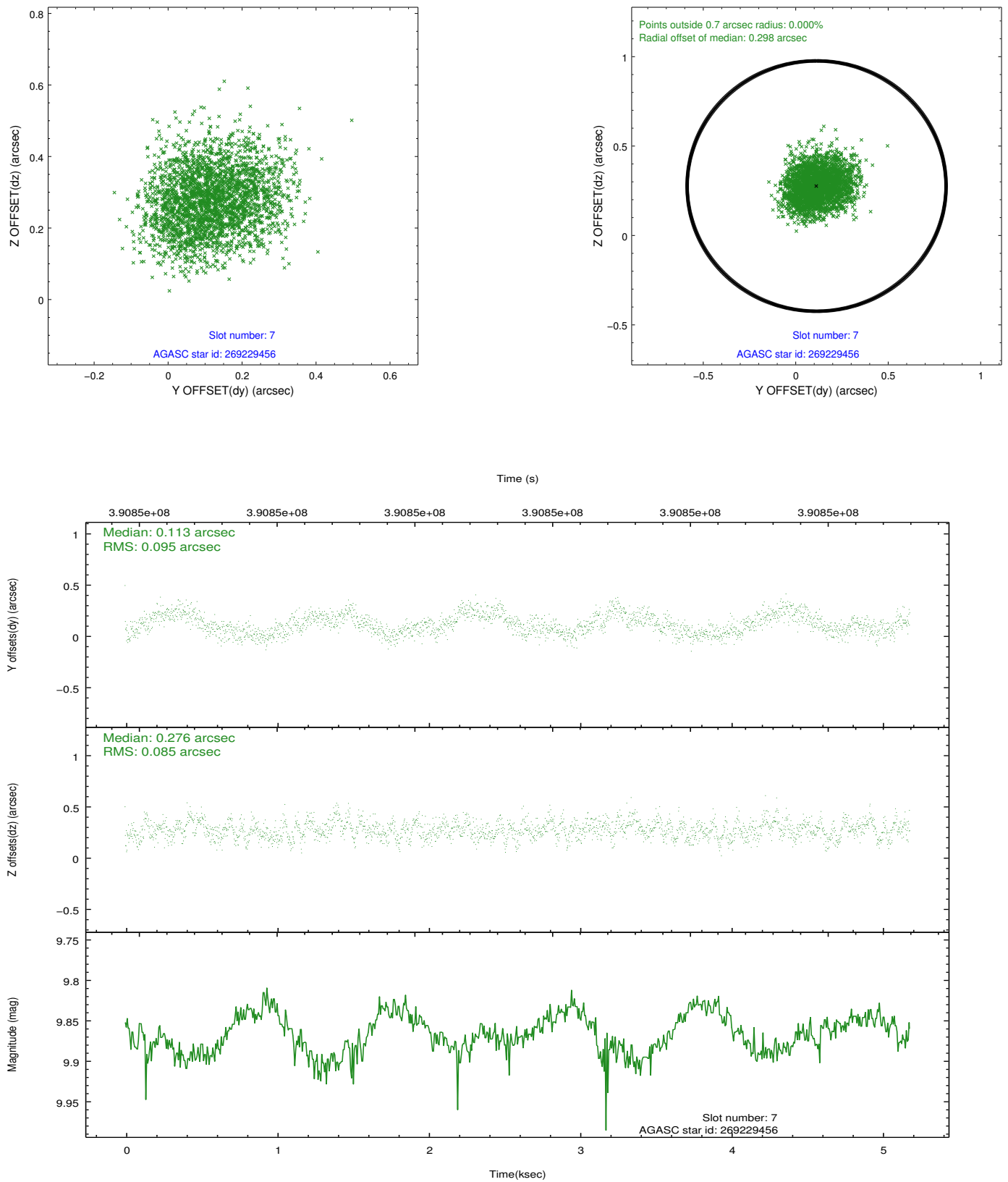
### 2.4.3 Slot 5



## 2.4.4 Slot 6

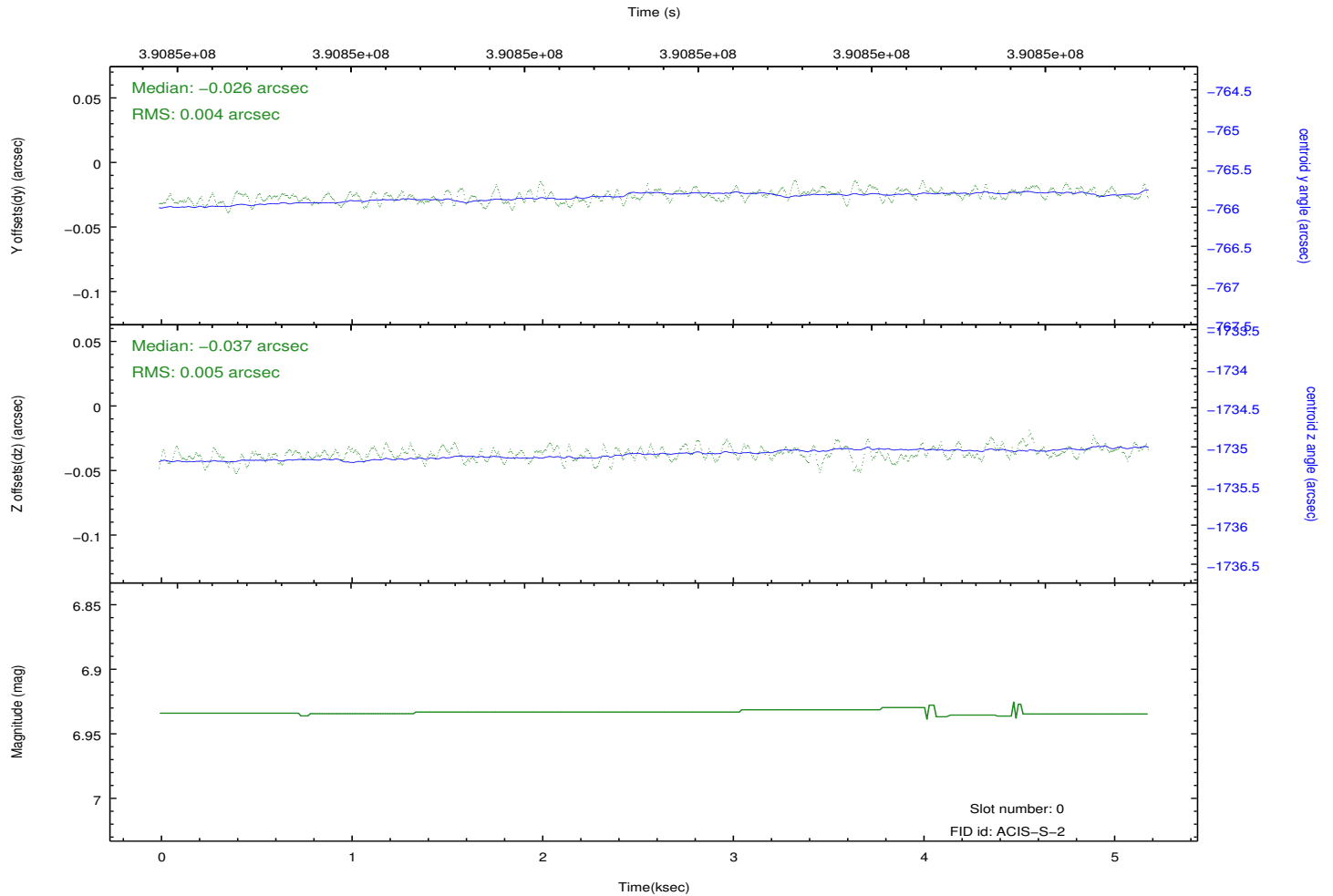
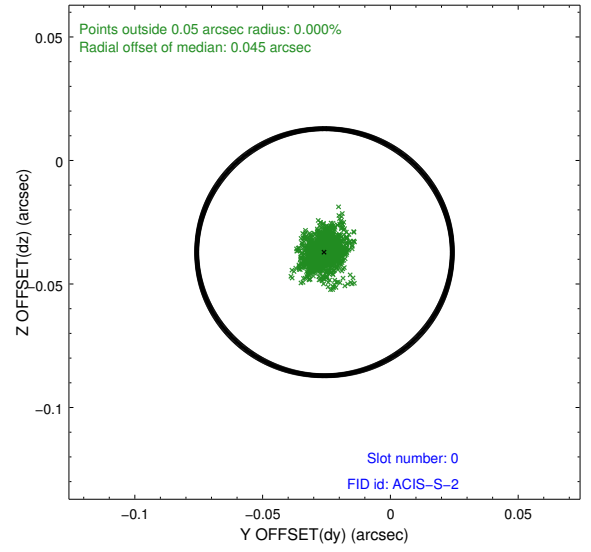
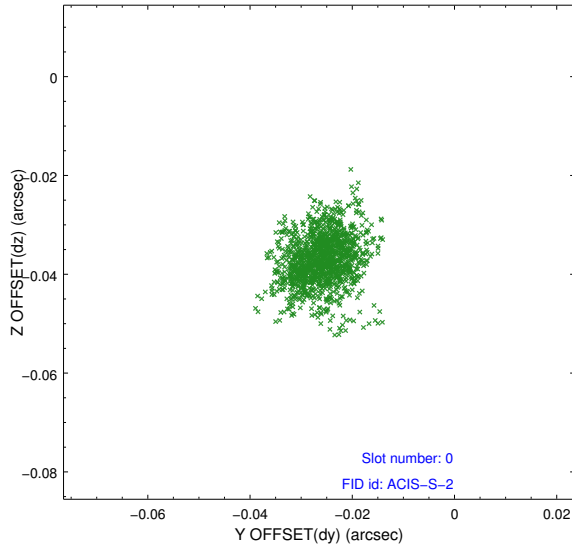


## 2.4.5 Slot 7

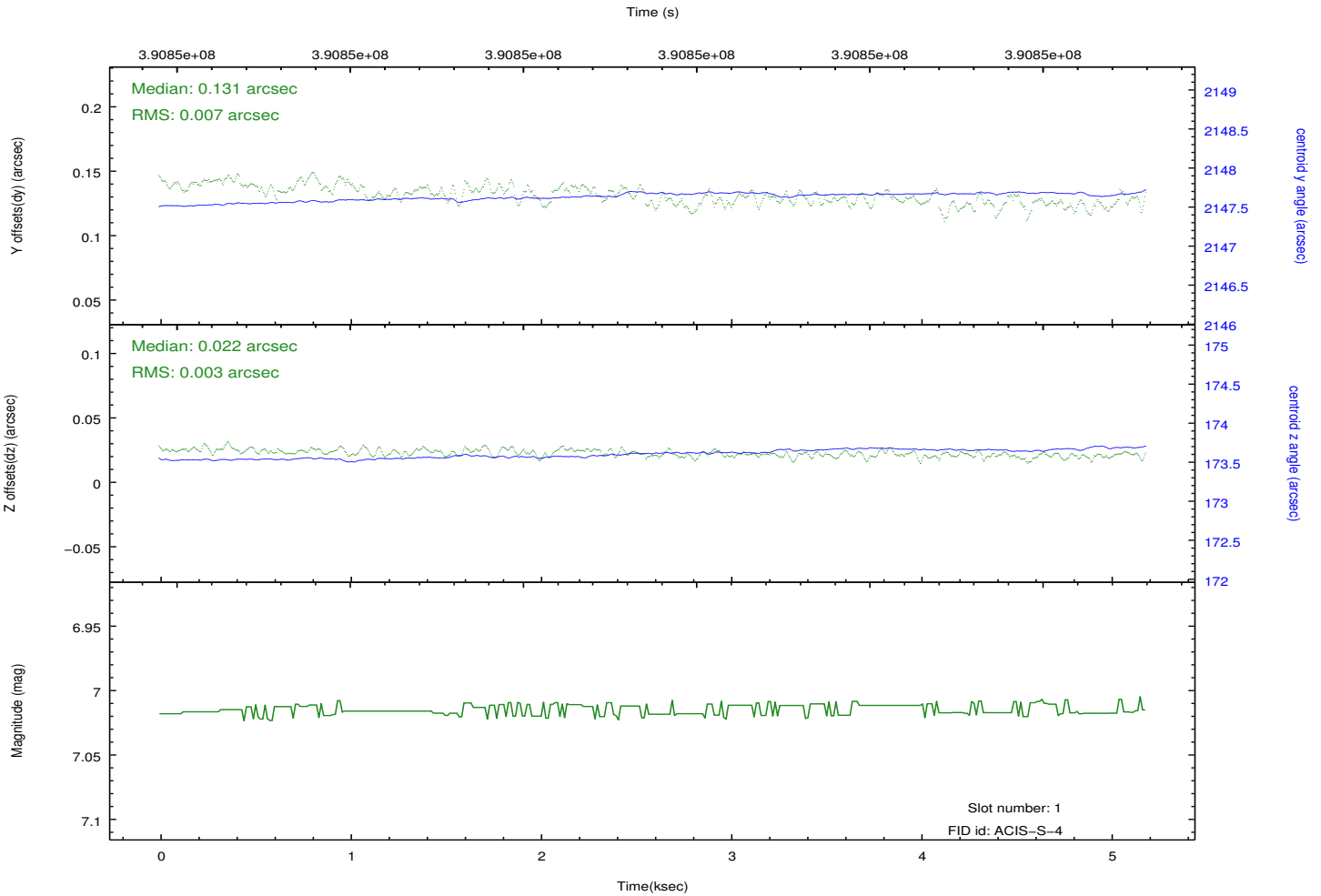
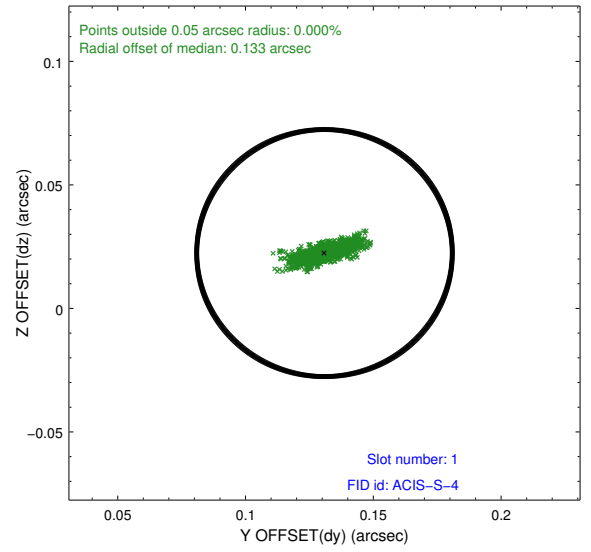
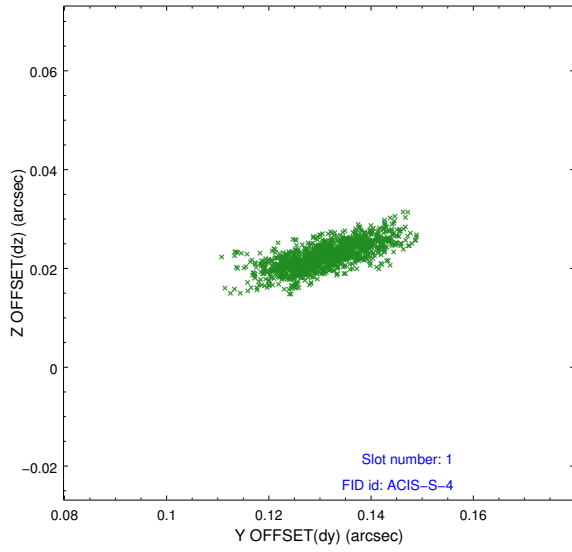


## 2.5 FID Slots

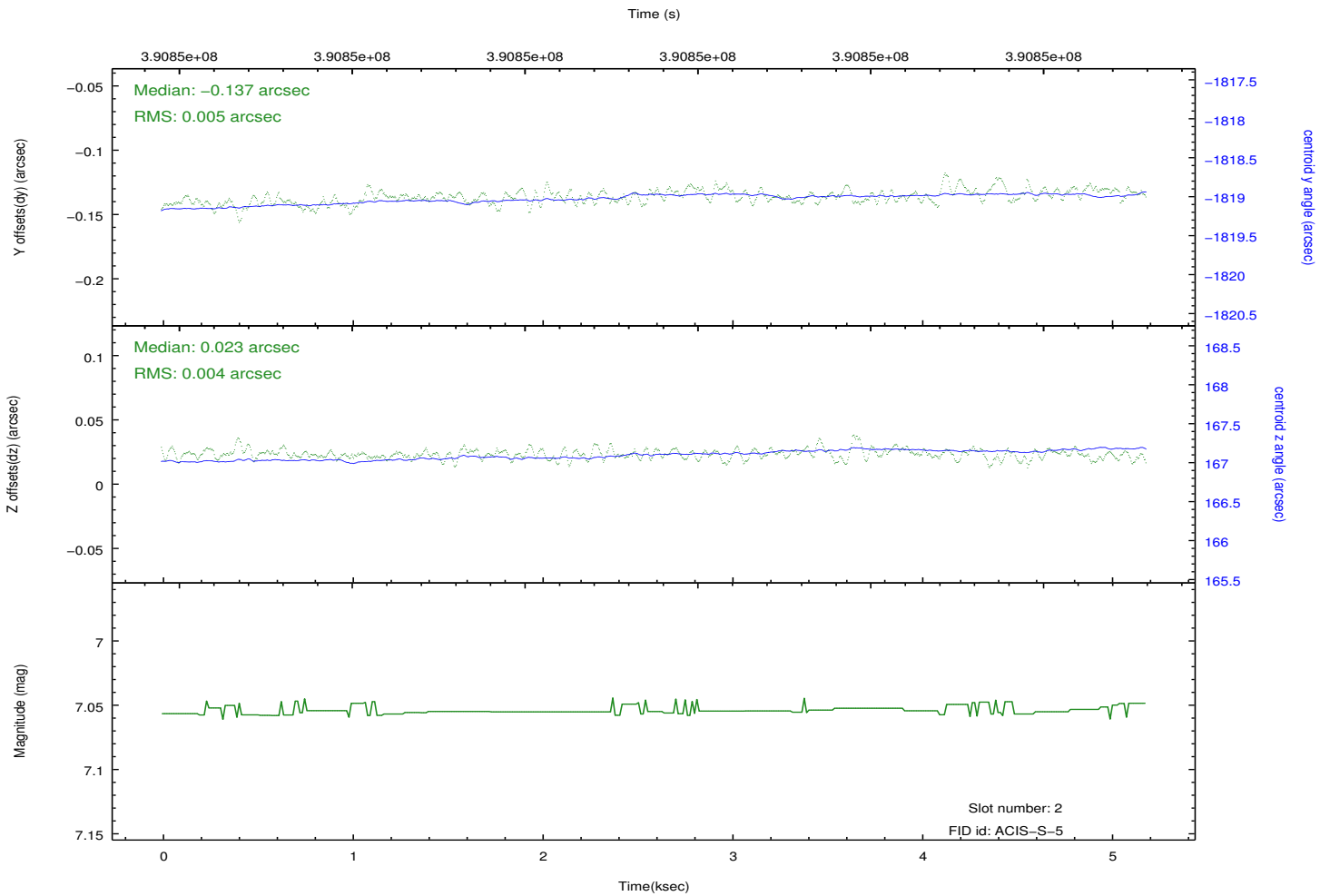
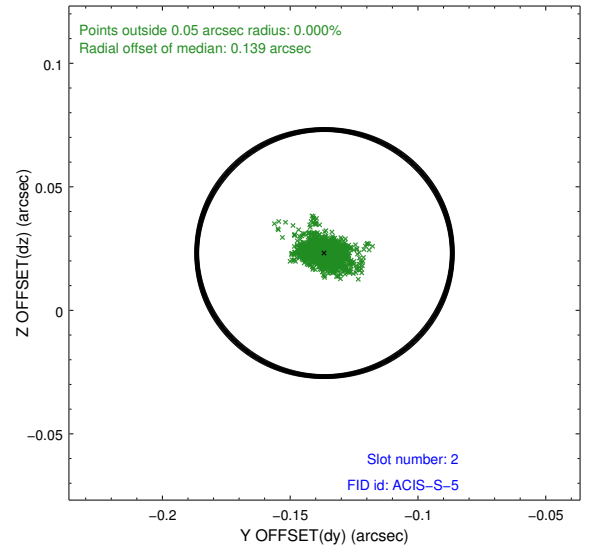
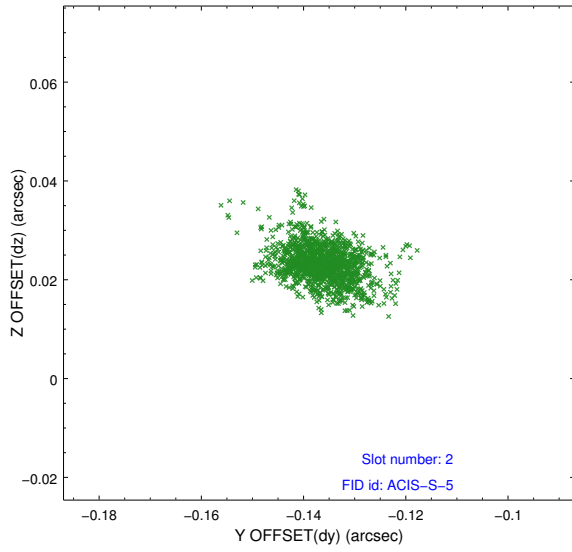
### 2.5.1 Slot 0



## 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)	2012.07.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.046

## A.2 Comments

Joint proposal: HST

=====

A spatial region of the original bias map for CCD = 3 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small ( $\sim 20$  eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 3 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:  
(243.54592,28.75065), (243.54709,28.77912), (243.45085,28.78189), (243.43339,28.75389)