

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4841 - L2 Version 4
Chandra X-Ray Center

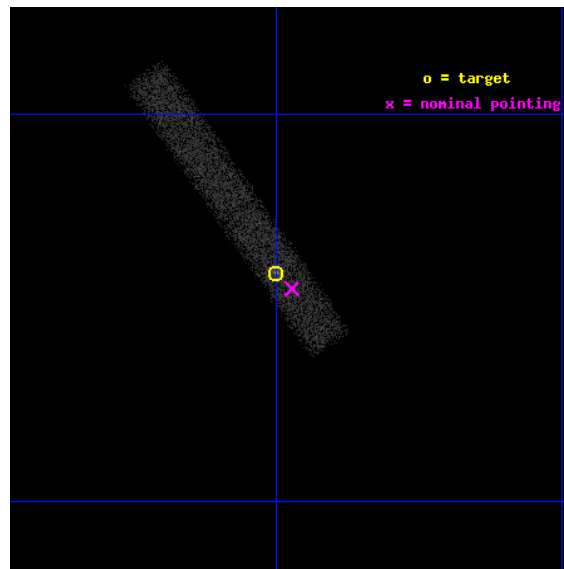
L2 Processing Date : Nov 30 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

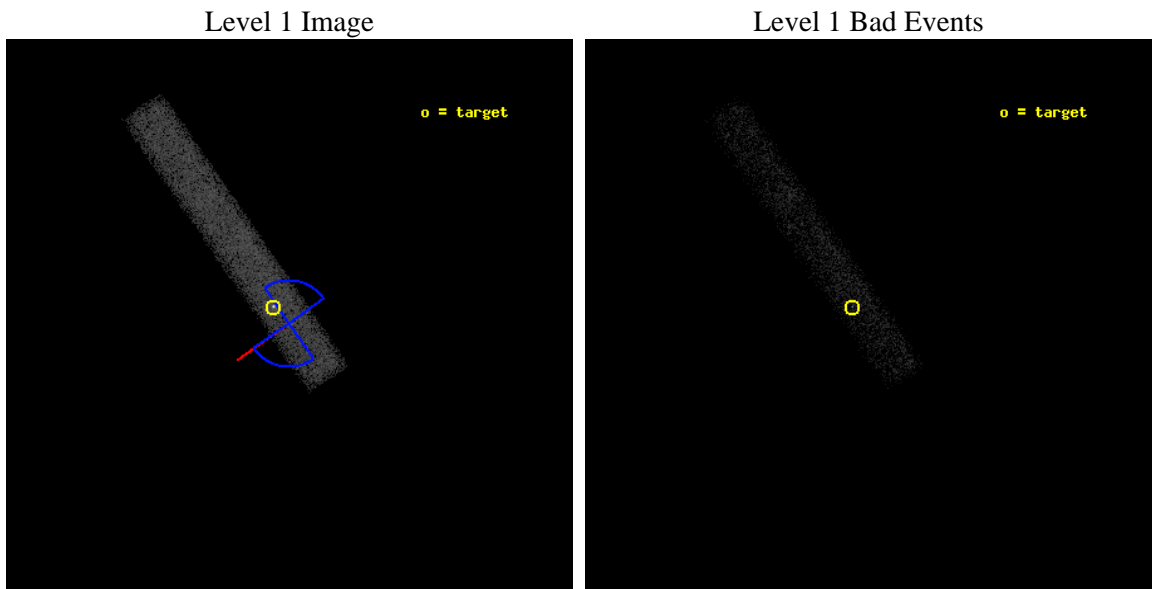
seq_num	700923	Sequence number
obs_id	4841	Observation id
title	The Physics of Relativistic Jets: Chandra Imaging of Extended Jets in Gamma-loud Blazars	Proposal title
observer	Dr. FABRIZIO TAVECCHIO	Principal investigator
object	1229-021	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	188.0	Observer's specified target RA [deg]
dec_targ	-2.401472	Observer's specified target Dec [deg]
ra_nom	187.99318496725	Nominal RA [deg]
dec_nom	-2.4083485303894	Nominal Dec [deg]
roll_nom	235.15634334585	Nominal Roll [deg]
revision	4	Processing version of data
ontime	20189.600300819	Sum of GTIs [s]
livetime	18310.901778359	Livetime [s]
ontime7	20189.600300819	Sum of GTIs [s]
l2events	15443	Number of level 2 events



2 OBI

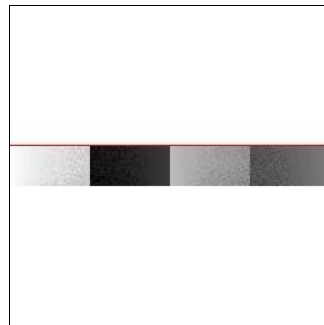
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	20189.600300819	Sum of GTIs [s]
caldbver	4.5.2	 	ontime7	20189.600300819	Sum of GTIs [s]
date	2012-11-30T14:37:03	Date and time of file creation	l1events	31896	Number of level 1 events
revision	4	Processing version of data			

2.1.4 Events

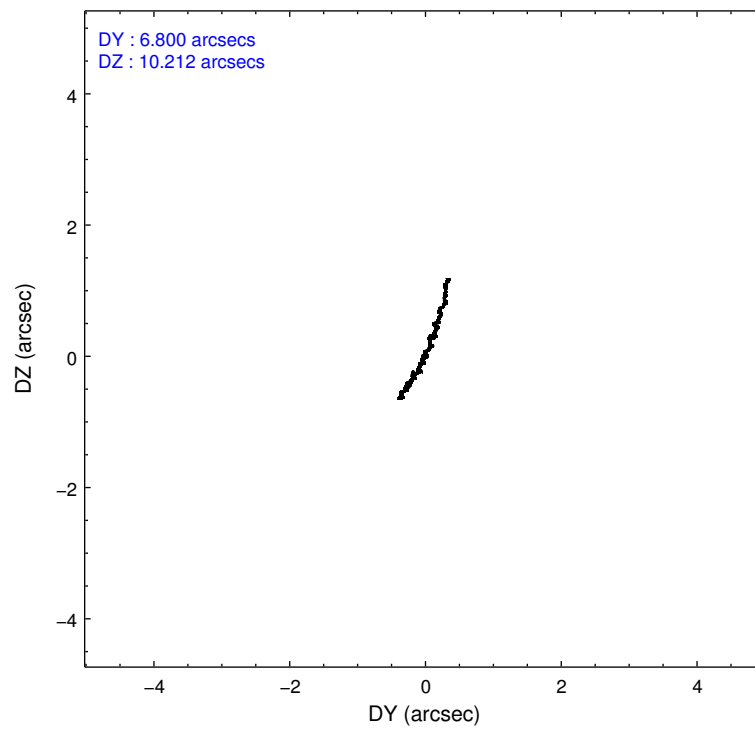
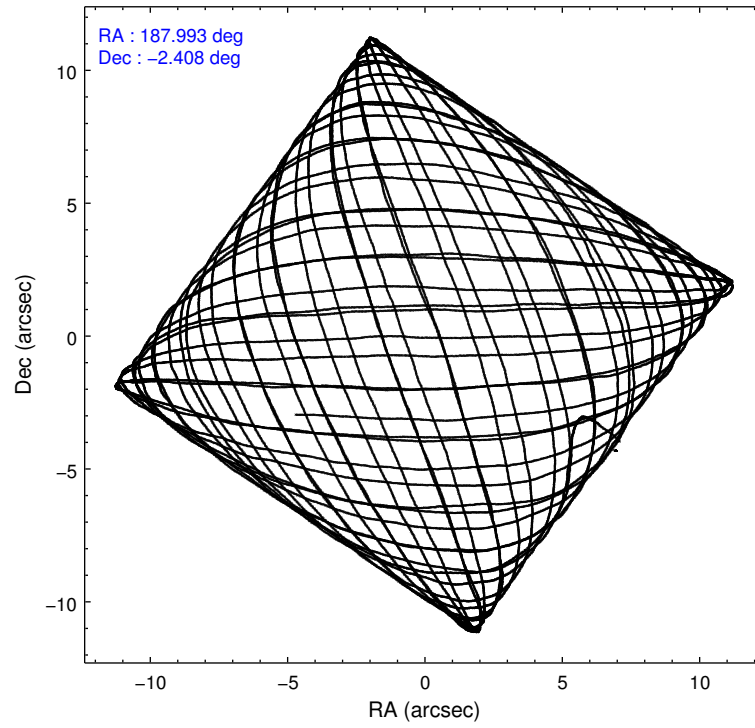
	ccd 7
level 1 events	31896
rejected events	15929
rejected %	49%

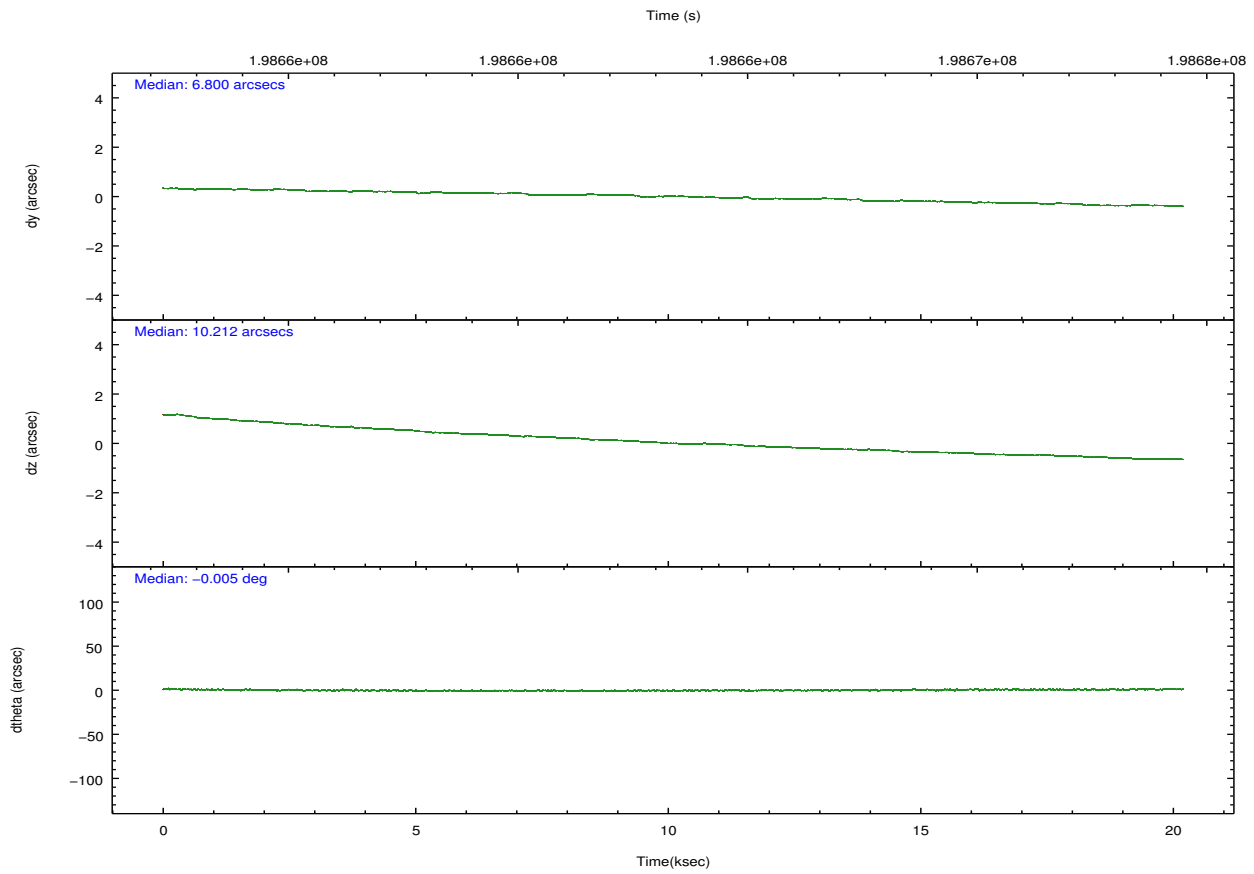
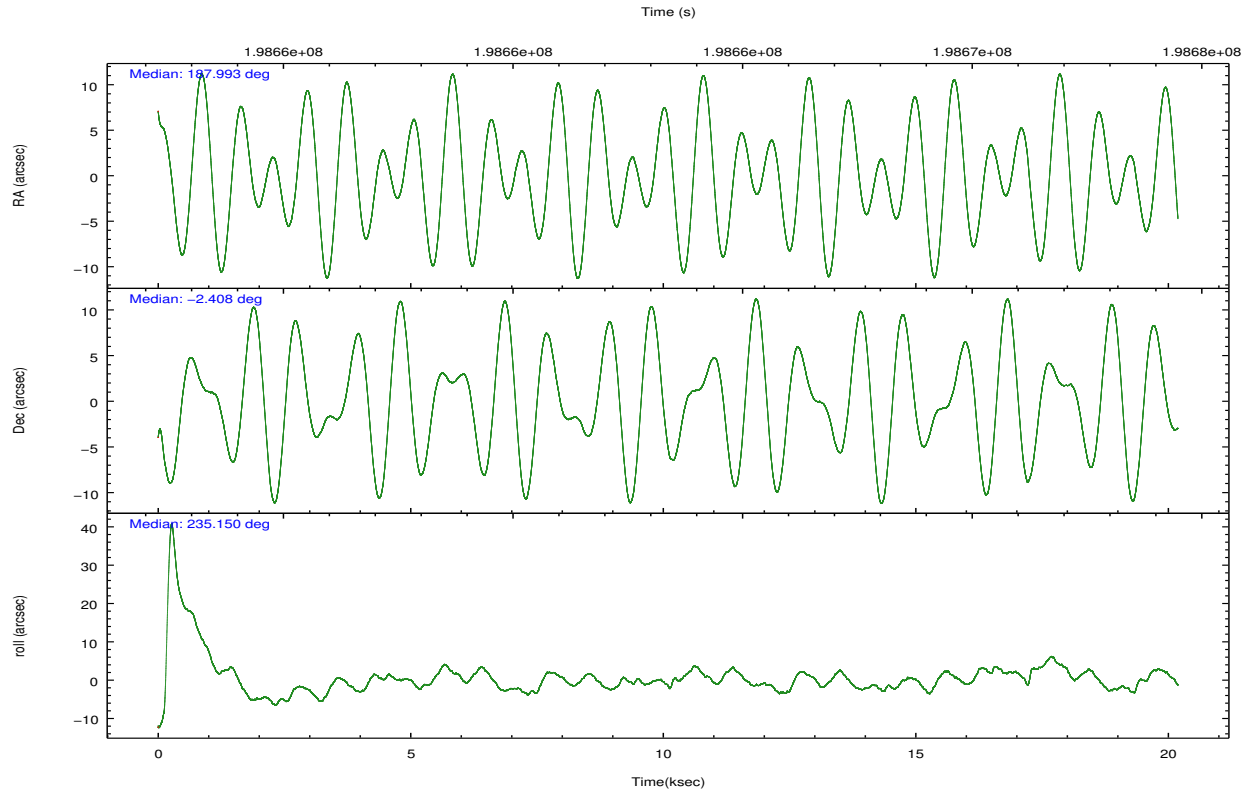
	ccd 7
grade 0 events	2682
	8%
grade 1 events	42
	0%
grade 2 events	3365
	10%
grade 3 events	2061
	6%
grade 4 events	2156
	6%
grade 5 events	2569
	8%
grade 6 events	6433
	20%
grade 7 events	12588
	39%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	187.995103	187.993184967245	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-2.381155	-2.408348530389385	Subarray start row	449	449
[deg] Pointing Roll	234.999793	235.1563433458454	Subarray row count	128	128
[deg] Roll angle	190.000000	190.000000	Alternating exposures requested	N	N
[deg] Roll tolerance	45.000000	45.000000	[s] Primary exposure time	0.000000	0.4
Roll constraint allows 180D rotation	Y	Y			
[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)	198653470.184000	198652071.34481			
Observation start date	2004-04-18T05:30:06	2004-04-18T05:07:51			
[s] Observation end time (MET)	198673470.184000	198675041.08332			
Observation end date	2004-04-18T11:03:26	2004-04-18T11:30:41			
Read mode	TIMED	TIMED			

2.3 Aspect



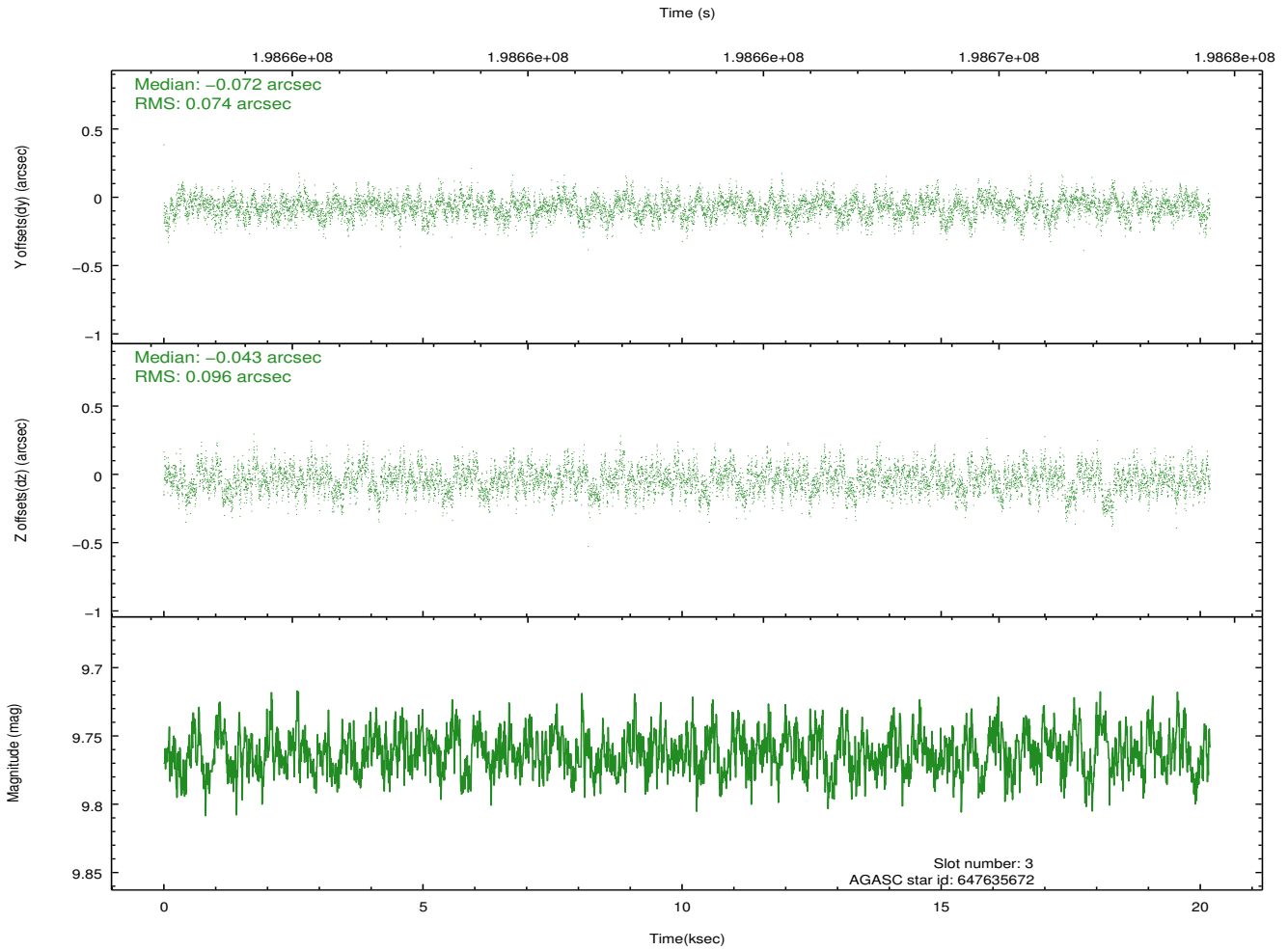
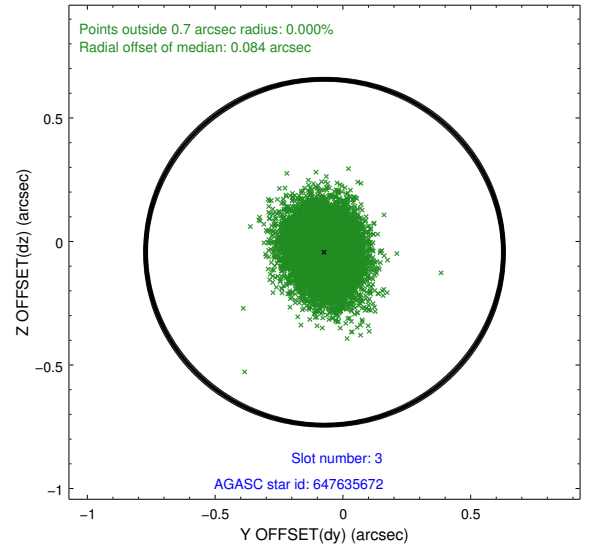
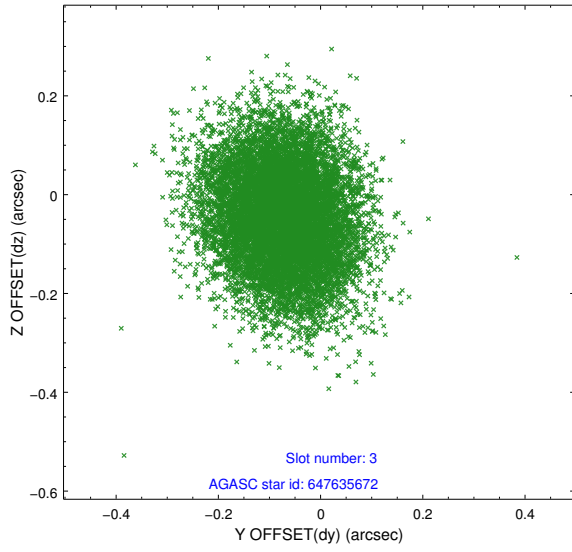


Slot Statistics

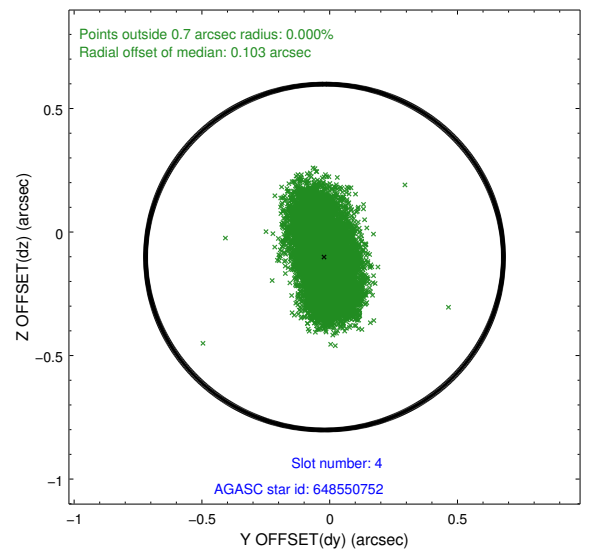
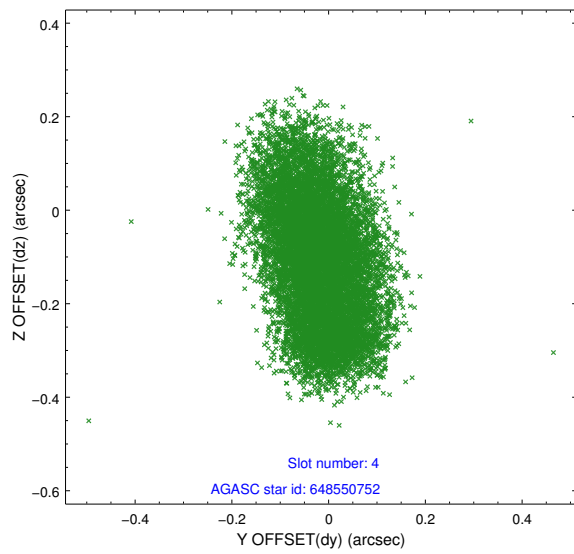
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	4925	-0.049	-0.009	0.015	0.035	0.000000	0.000000	-759.56	-1731.58
1	FID	ACIS-S-4	7.21	4925	0.063	0.027	0.011	0.039	0.000000	0.000000	2153.72	176.79
2	FID	ACIS-S-5	7.23	4925	-0.047	-0.007	0.009	0.026	0.000000	0.000000	-1812.19	170.58
3	GUIDE	647635672	9.76	9840	-0.072	-0.043	0.130	0.210	187.306192	-2.209896	917.51	-2383.07
4	GUIDE	648550752	9.22	9845	-0.020	-0.101	0.160	0.249	187.581348	-1.942523	-438.75	-2125.12
5	GUIDE	648552520	10.03	9832	0.113	-0.017	0.266	0.376	187.797603	-2.144003	-291.12	-1071.82
6	GUIDE	648939216	10.11	9840	0.056	0.110	0.149	0.235	188.170028	-3.143856	1888.94	2090.37
7	GUIDE	648547192	10.53	9573	-0.057	0.056	0.222	0.382	188.710565	-2.078795	-2366.83	1485.16

2.4 Star Slots

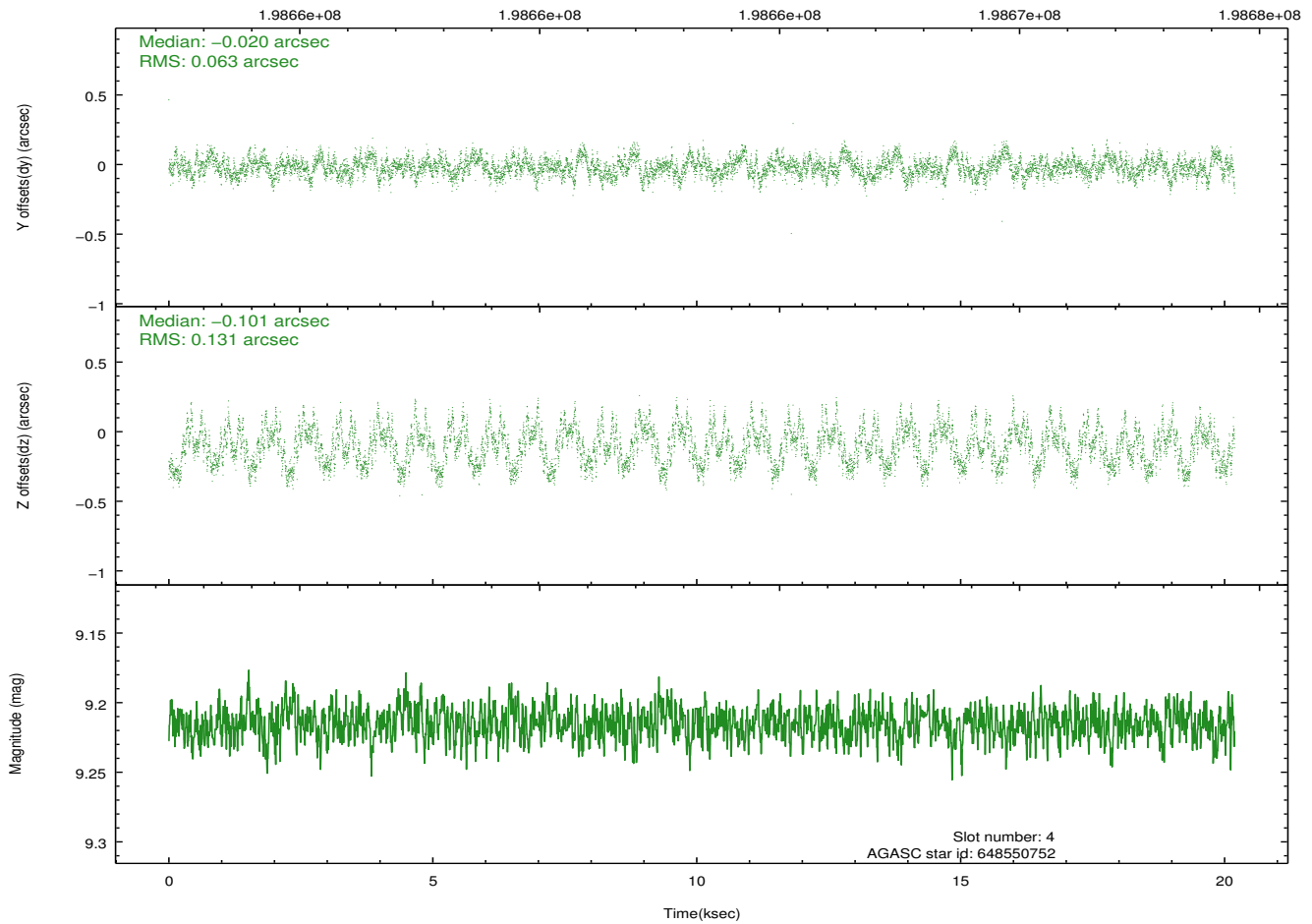
2.4.1 Slot 3



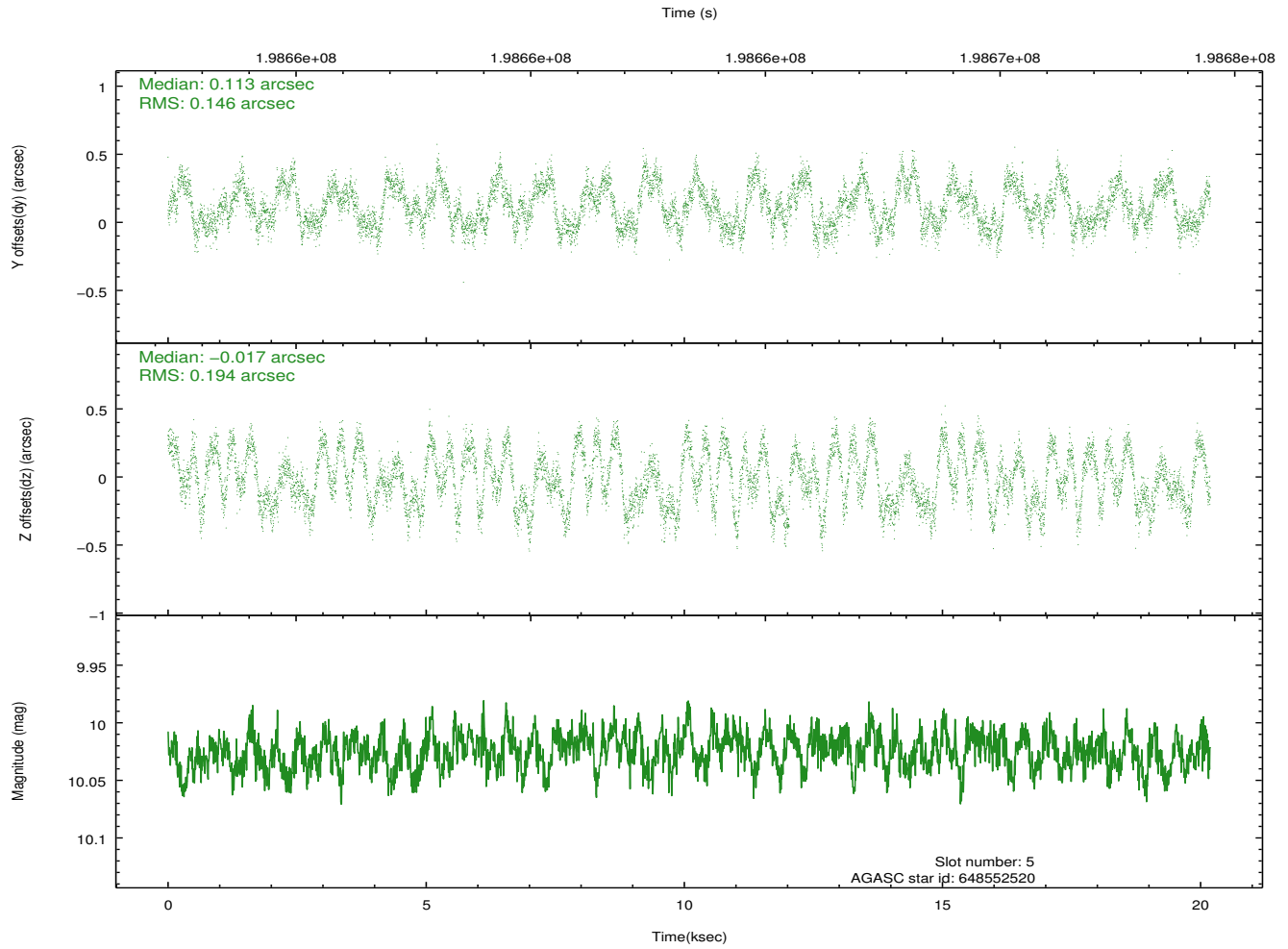
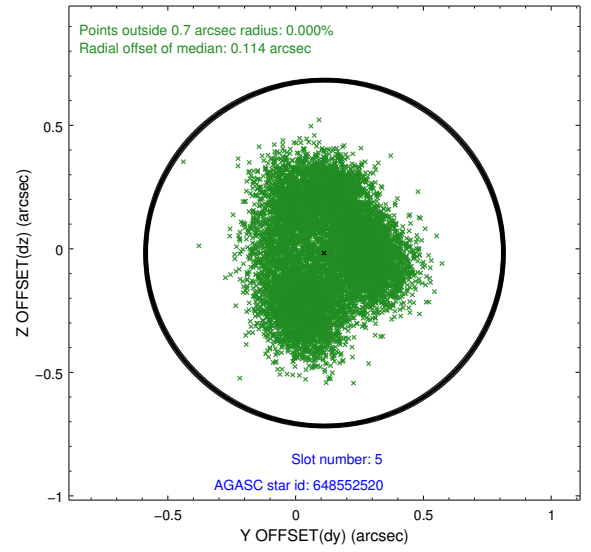
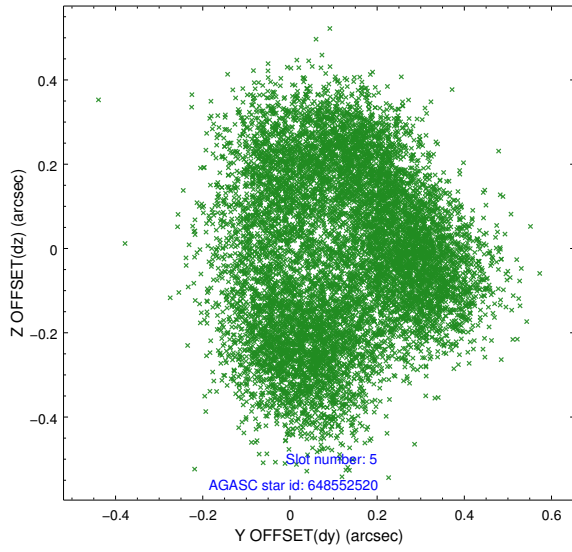
2.4.2 Slot 4



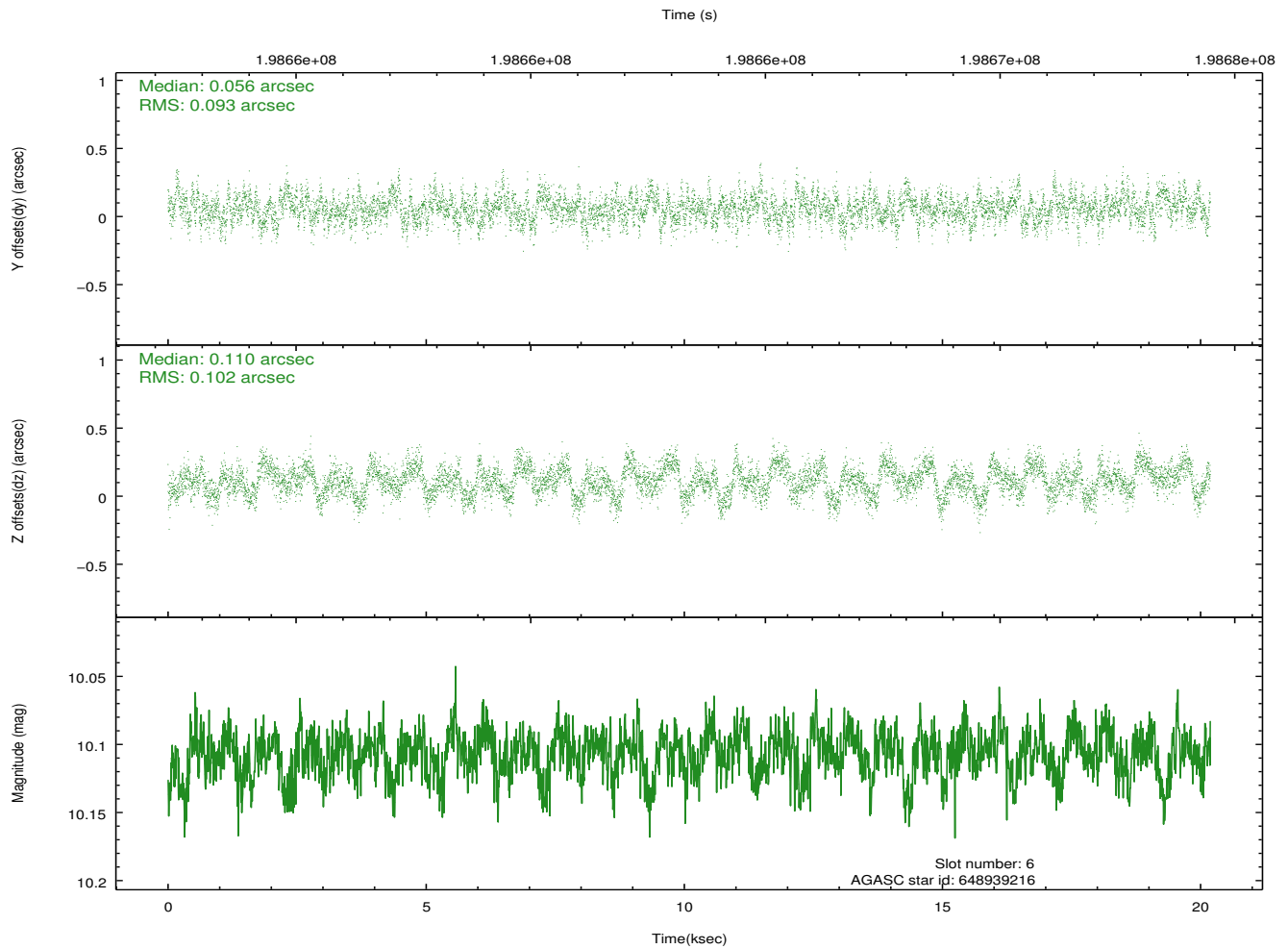
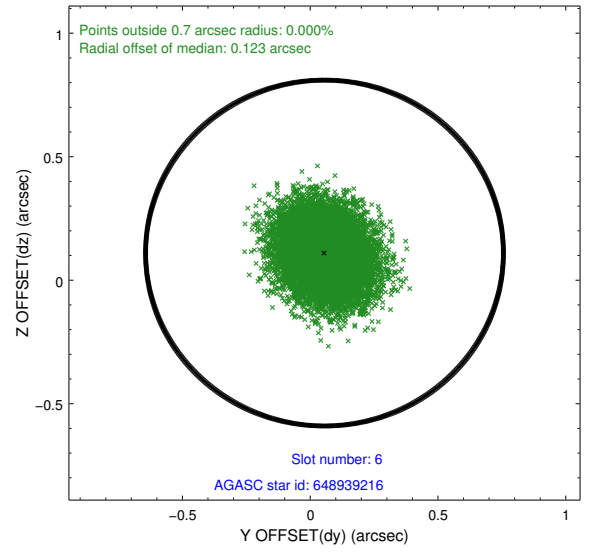
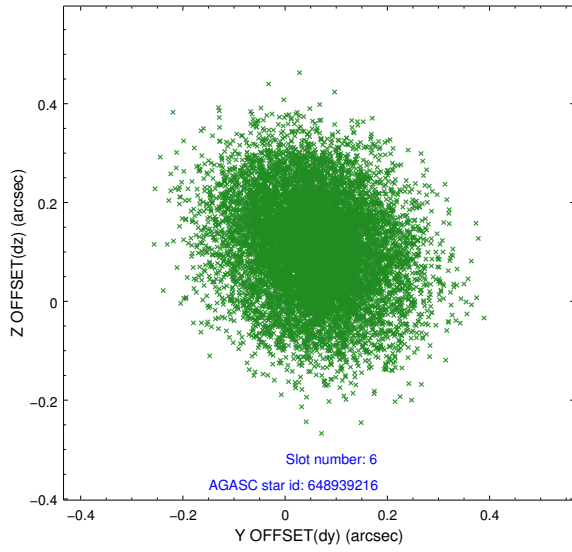
Time (s)



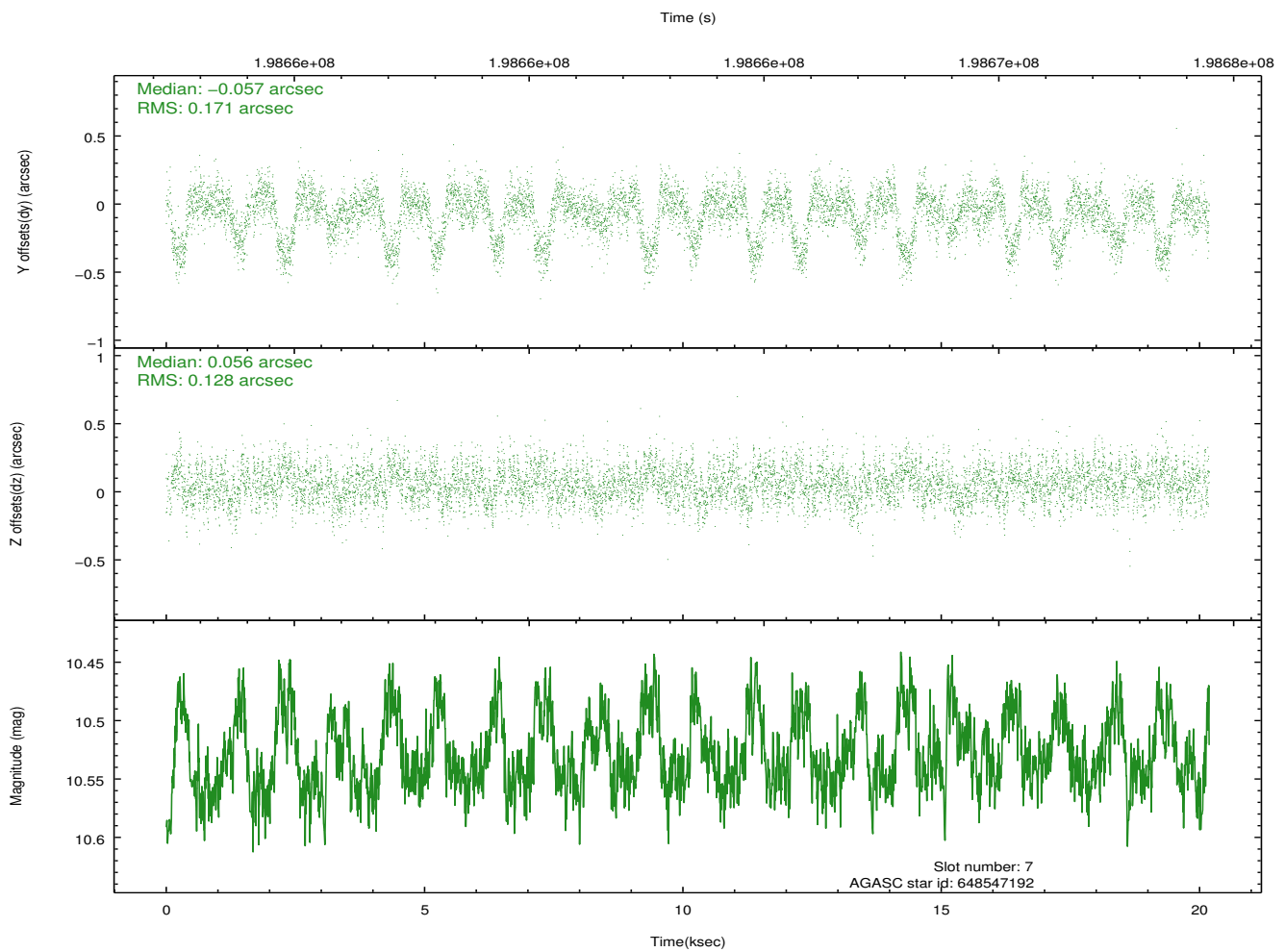
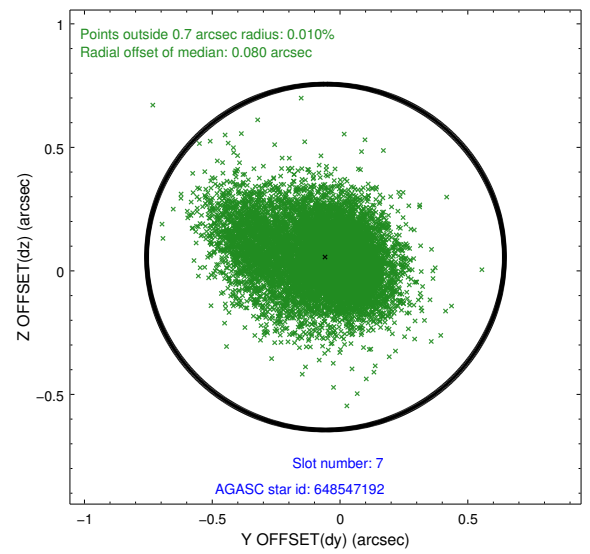
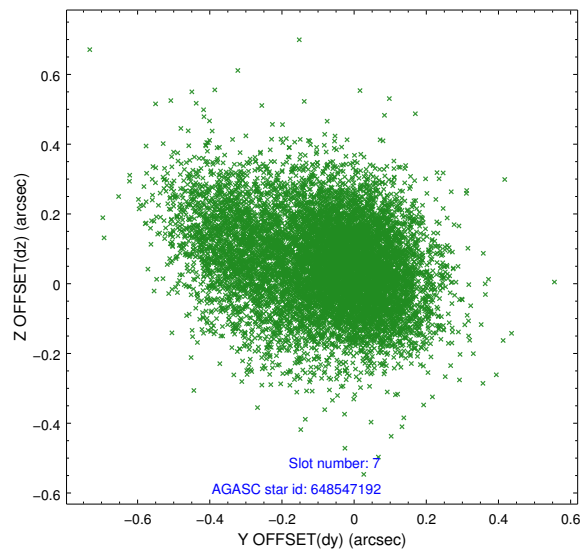
2.4.3 Slot 5



2.4.4 Slot 6

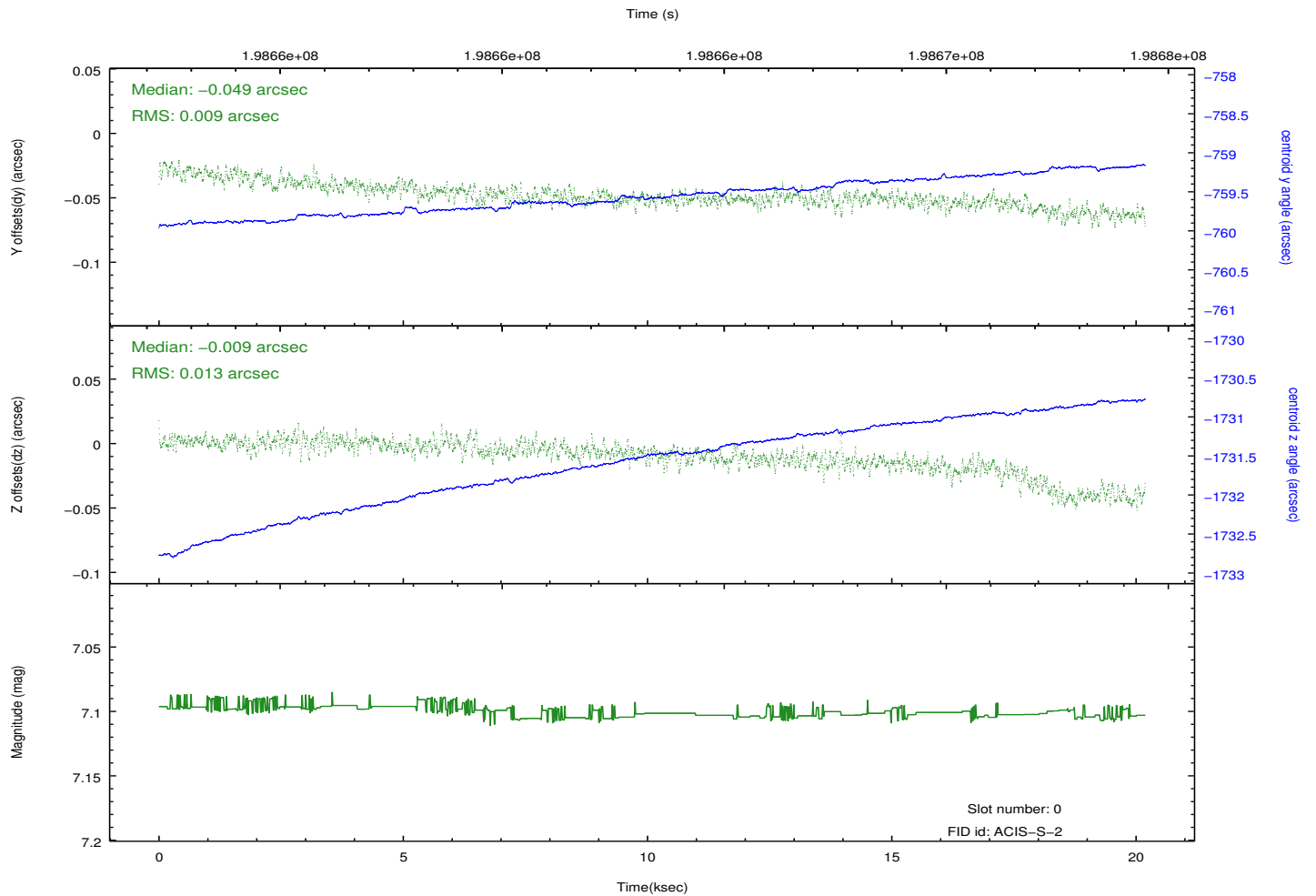
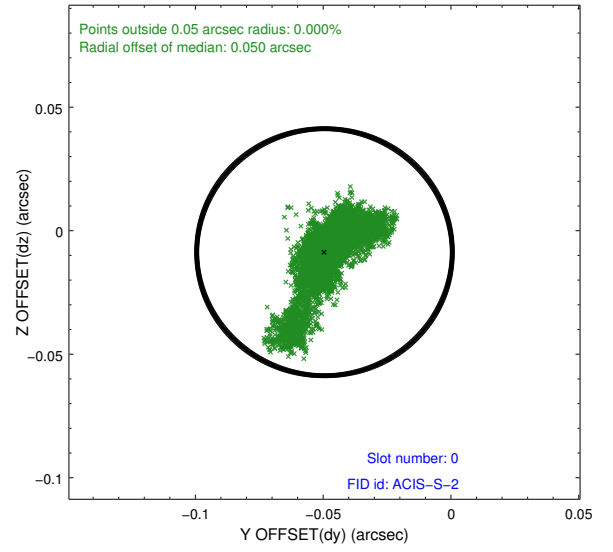
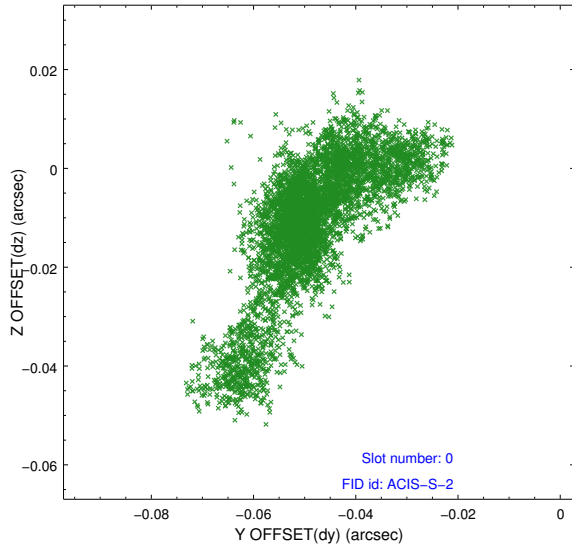


2.4.5 Slot 7

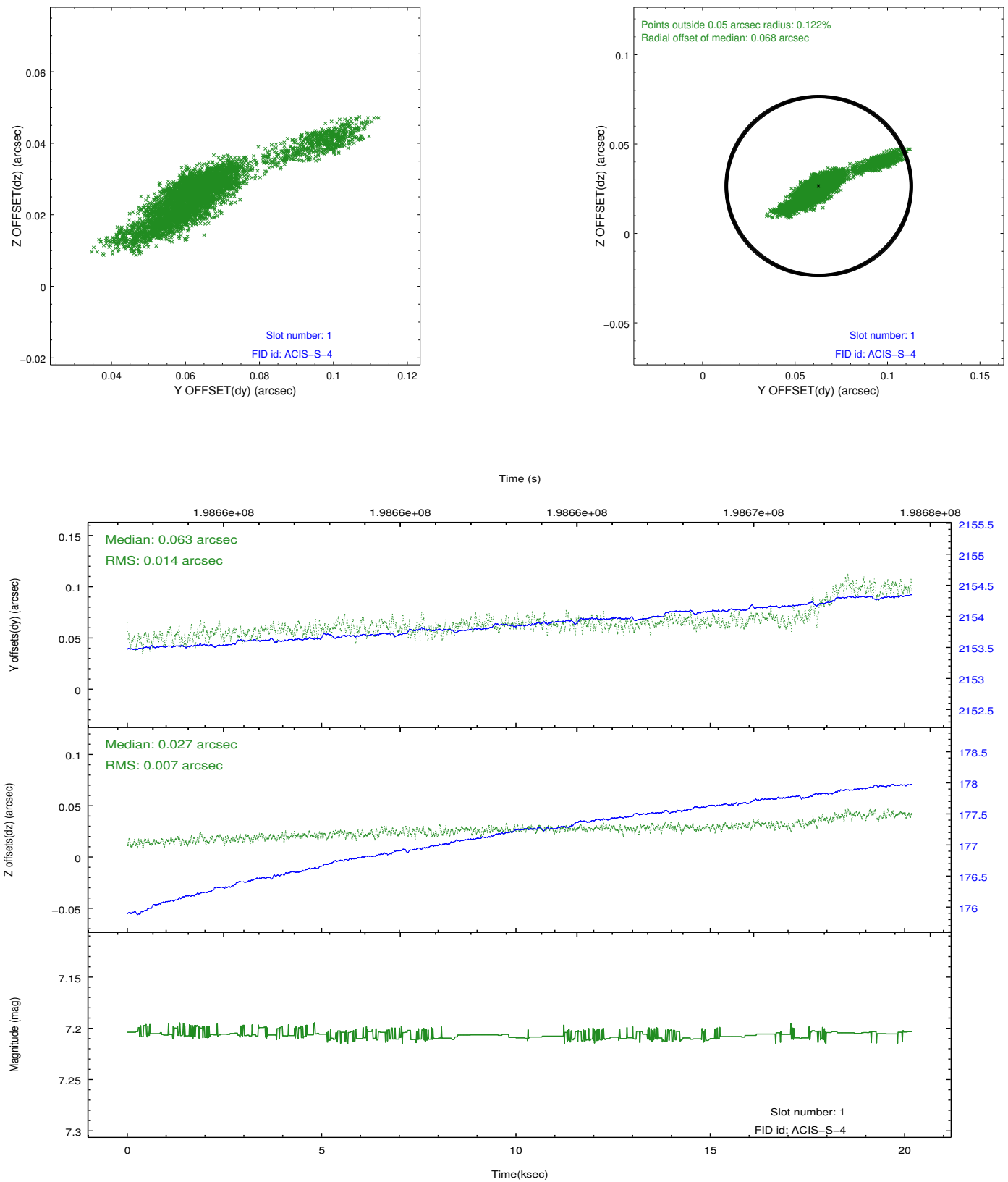


2.5 FID Slots

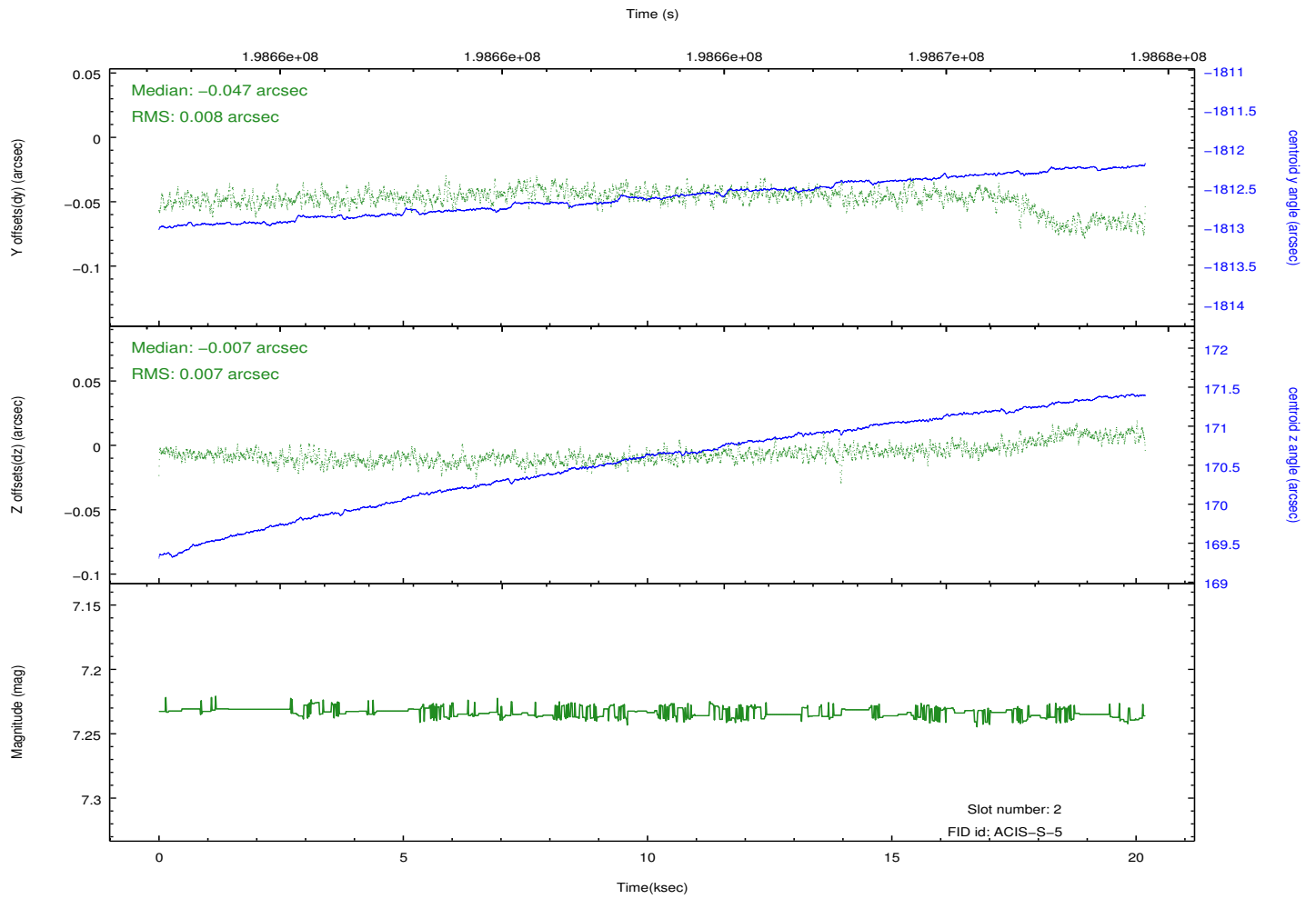
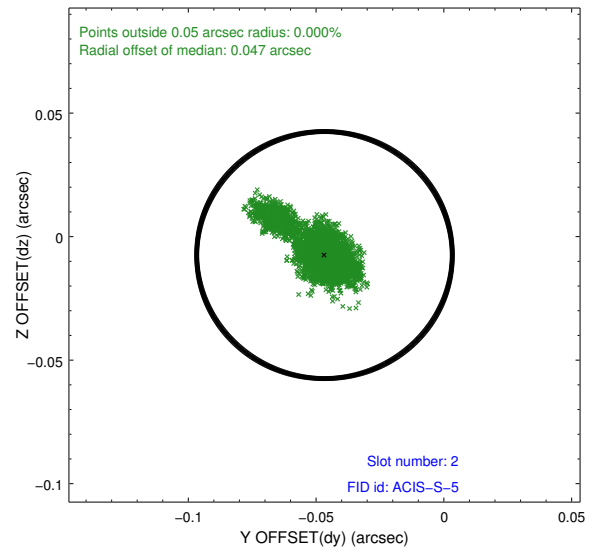
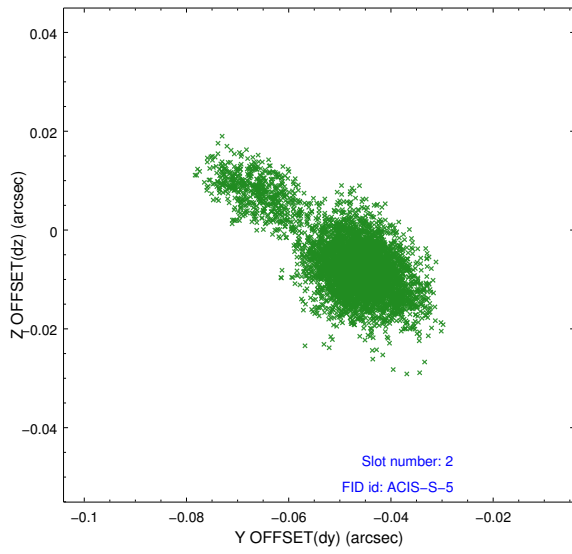
2.5.1 Slot 0



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)	2012.12.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.189

A.2 Comments

Roll constraint not met, the roll angle exceeded constraint limits by less than a degree. Joint Proposal: HST