

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 5747 - L2 Version 3
Chandra X-Ray Center

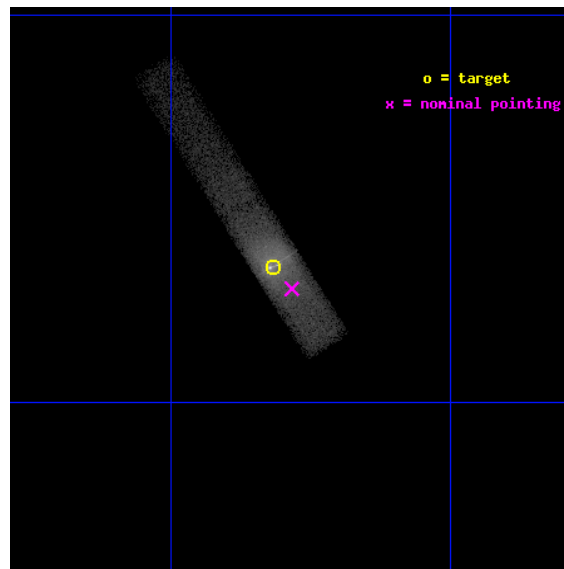
L2 Processing Date : Dec 24 2012

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

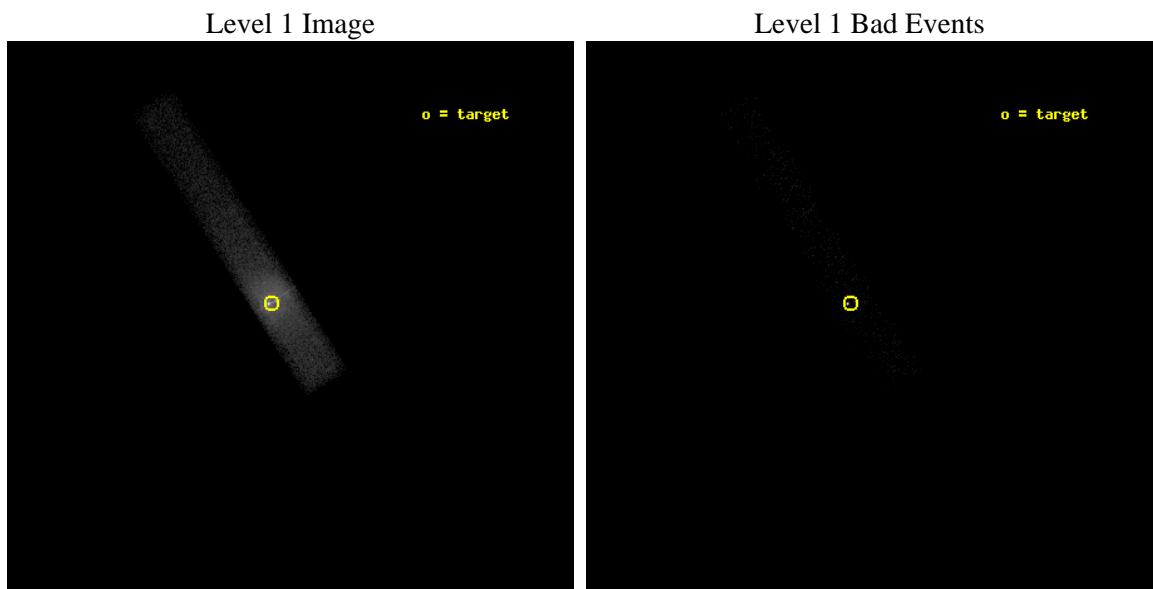
seq_num	701169	Sequence number
obs_id	5747	Observation id
title	The X-ray Flares of Knot 'HST-1' in the M87 Jet (monitoring)	Pro
observer	Dr. John Biretta	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.69603504764	Nominal RA [deg]
dec_nom	12.382127228672	Nominal Dec [deg]
roll_nom	237.65658321518	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5183.2000772059	Sum of GTIs [s]
livetime	4700.888878293	Livetime [s]
ontime7	5183.2000772059	Sum of GTIs [s]
l2events	59070	Number of level 2 events



2 OBI

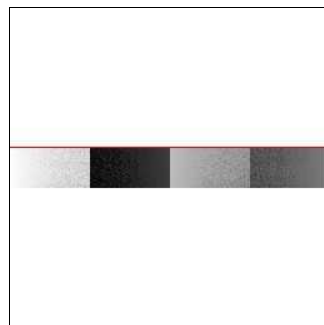
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	5183.2000772059	Sum of GTIs [s]
caldsver	4.5.5	 	ontime7	5183.2000772059	Sum of GTIs [s]
date	2012-12-23T17:43:48	Date and time of file creation	l1events	76218	Number of level 1 events
revision	3	Processing version of data			

2.1.4 Events

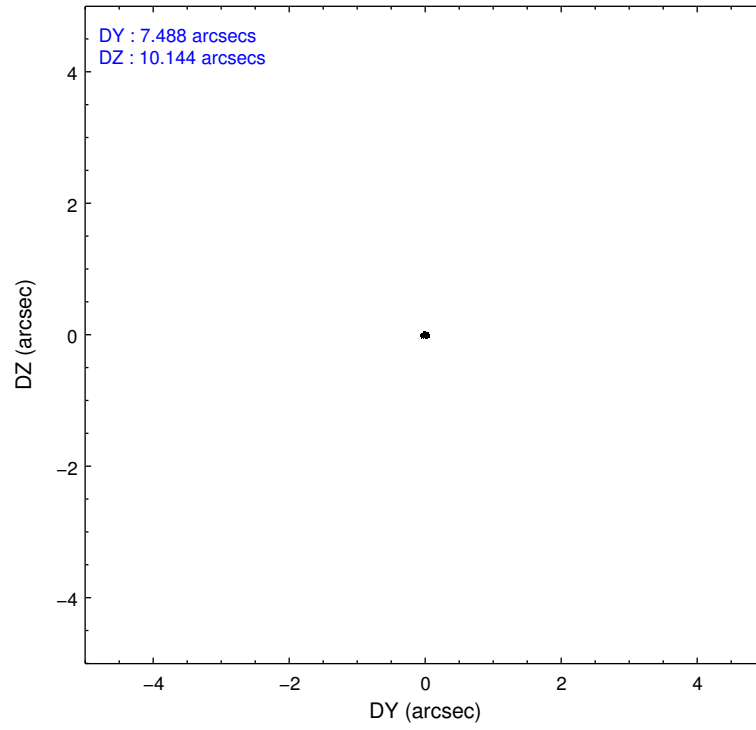
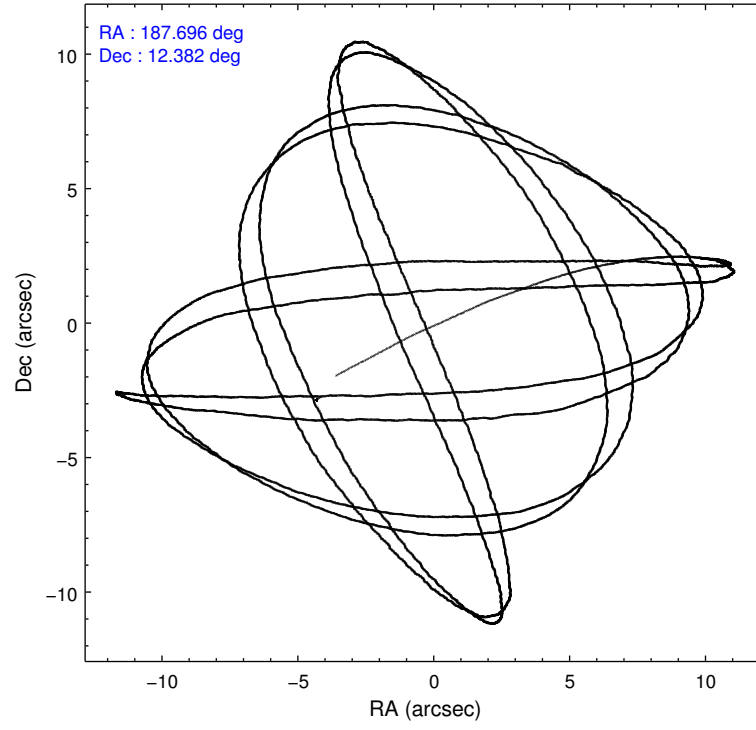
	ccd 7
level 1 events	76218
rejected events	16566
rejected %	21%

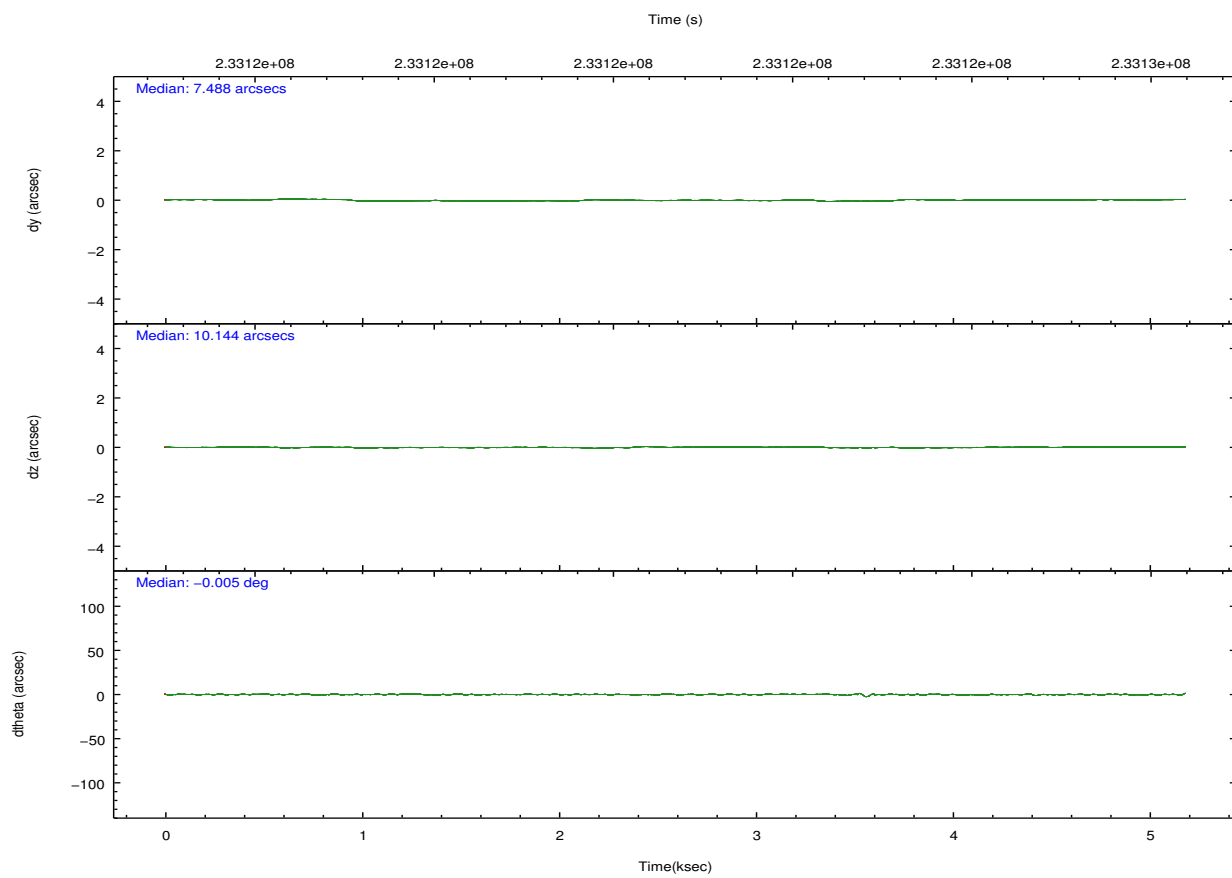
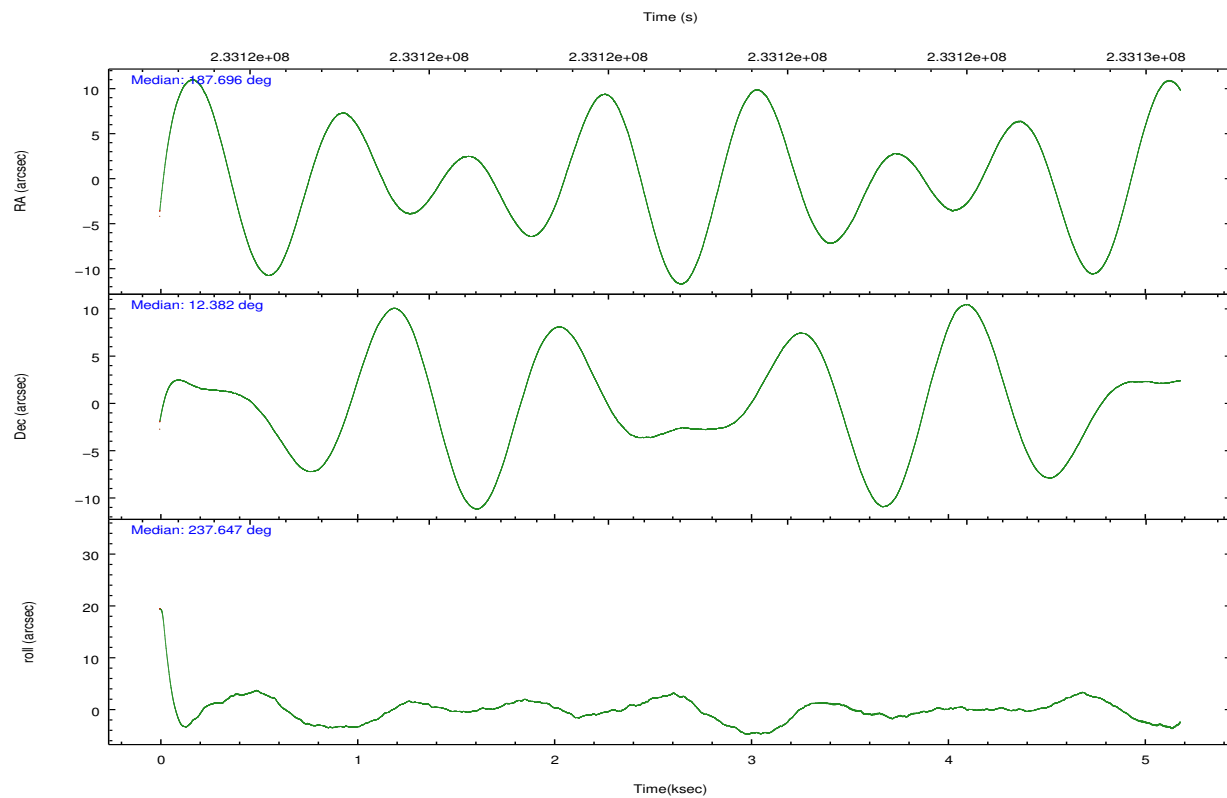
	ccd 7
grade 0 events	18357
	24%
grade 1 events	437
	0%
grade 2 events	15340
	20%
grade 3 events	7065
	9%
grade 4 events	6910
	9%
grade 5 events	2965
	3%
grade 6 events	14265
	18%
grade 7 events	10879
	14%

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	187.696686	187.6960350476356	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.409364	12.38212722867248	Subarray start row	449	449
[deg] Pointing Roll	237.499760	237.656583215178	Subarray row count	128	128
[s] Window start time (MET)	232588864.184000	232588864.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	233193664.184000	233193664.184000	[s] Primary exposure time	0.000000	0.4
[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)	233120930.184000	233119236.92729			
Observation start date	2005-05-22T03:47:46	2005-05-22T03:20:36			
[s] Observation end time (MET)	233125930.184000	233126223.8401			
Observation end date	2005-05-22T05:11:06	2005-05-22T05:17:03			
Read mode	TIMED	TIMED			

2.3 Aspect



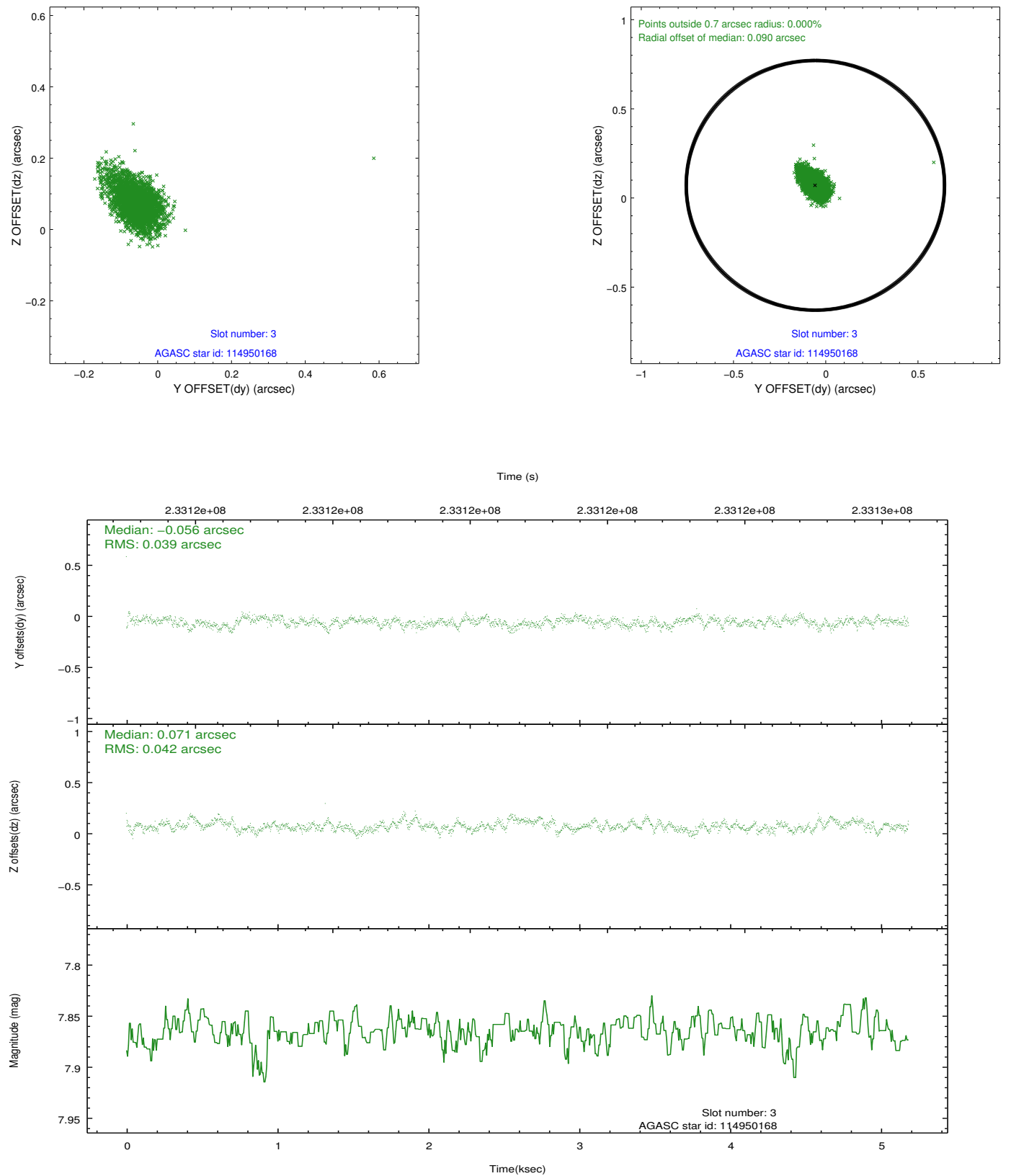


Slot Statistics

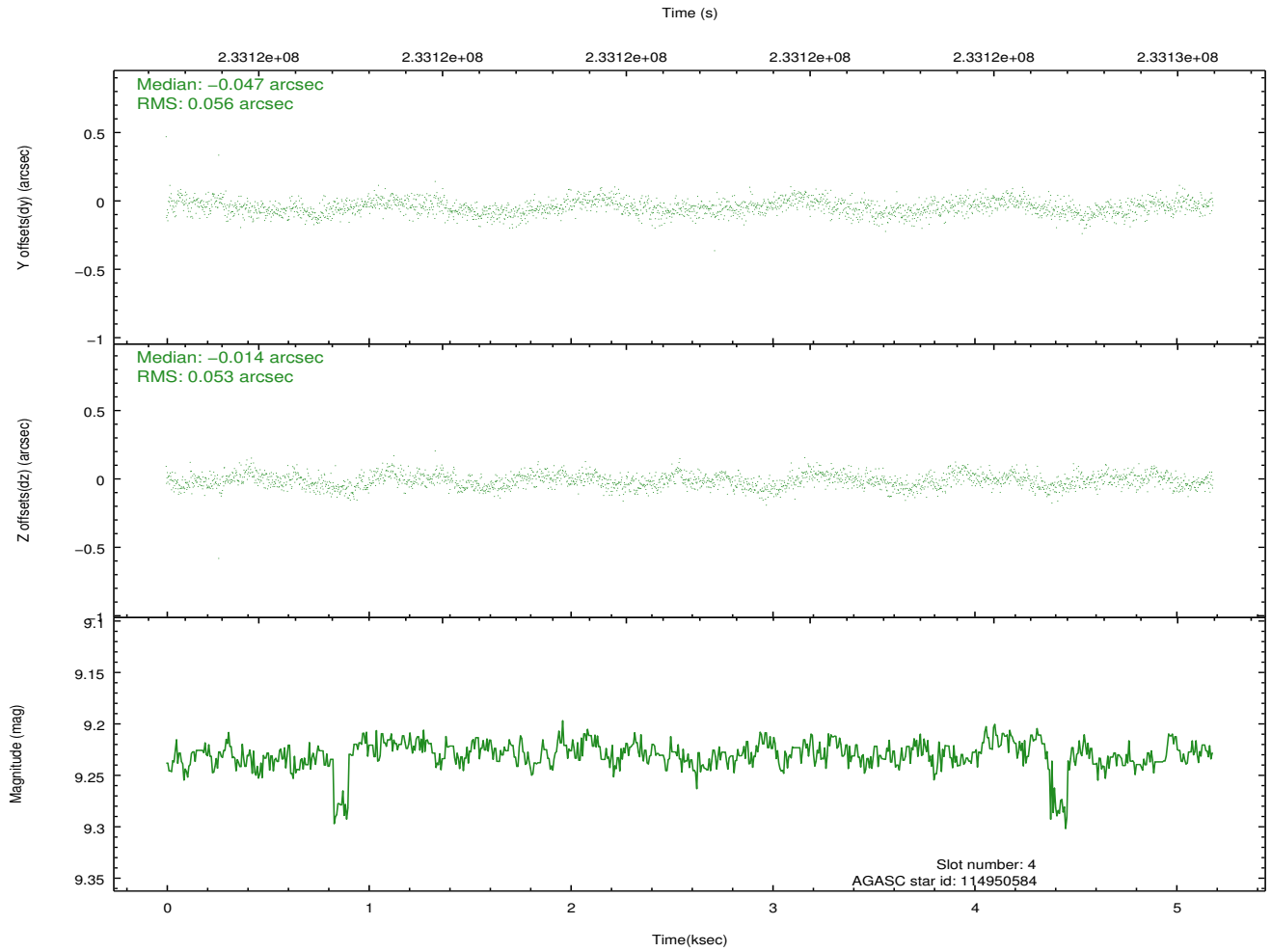
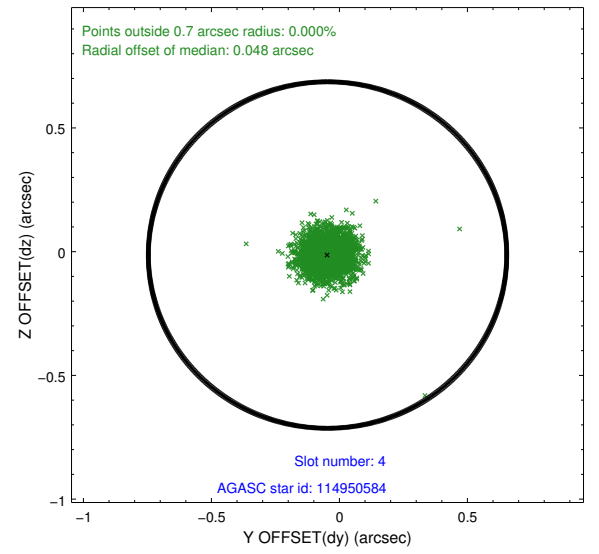
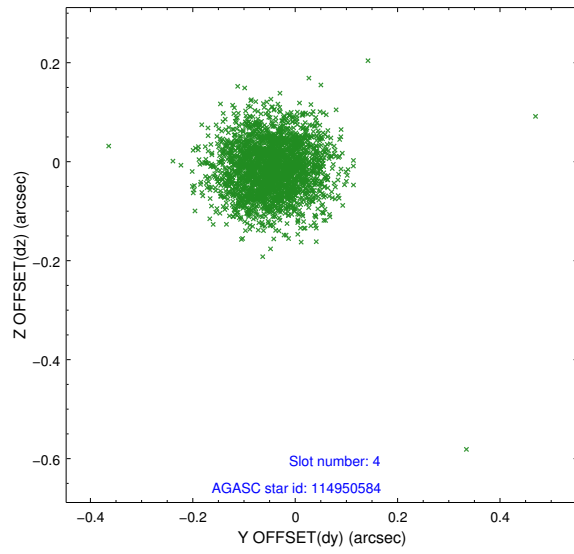
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1265	-0.046	-0.017	0.006	0.011	0.000000	0.000000	-760.25	-1731.43
1	FID	ACIS-S-4	7.21	1265	0.099	0.027	0.006	0.011	0.000000	0.000000	2152.59	175.96
2	FID	ACIS-S-5	7.23	1265	-0.084	-0.002	0.006	0.010	0.000000	0.000000	-1811.68	170.84
3	GUIDE	114950168	7.86	2530	-0.056	0.071	0.057	0.101	187.143398	12.117441	1931.79	-1078.80
4	GUIDE	114950584	9.23	2530	-0.047	-0.014	0.080	0.130	187.487323	11.827248	2164.87	503.10
5	GUIDE	114952824	8.57	2530	-0.011	0.122	0.090	0.136	187.703904	12.486727	-246.97	-128.49
6	GUIDE	114954440	9.19	2529	0.092	-0.068	0.085	0.136	186.915066	12.219118	2052.64	-1953.26
7	GUIDE	114955056	8.32	2529	0.025	-0.113	0.061	0.101	187.914001	12.127854	444.70	1188.21

2.4 Star Slots

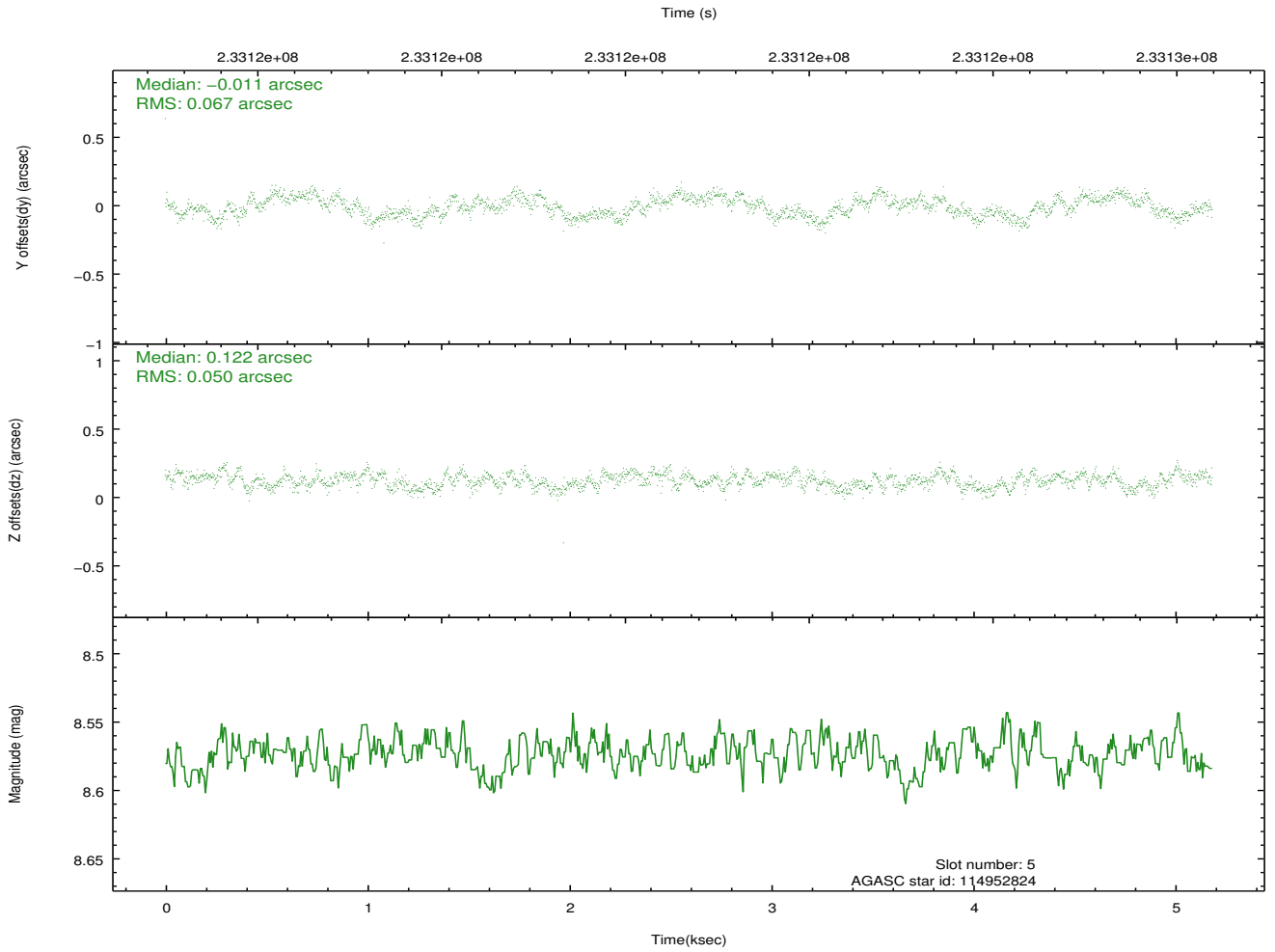
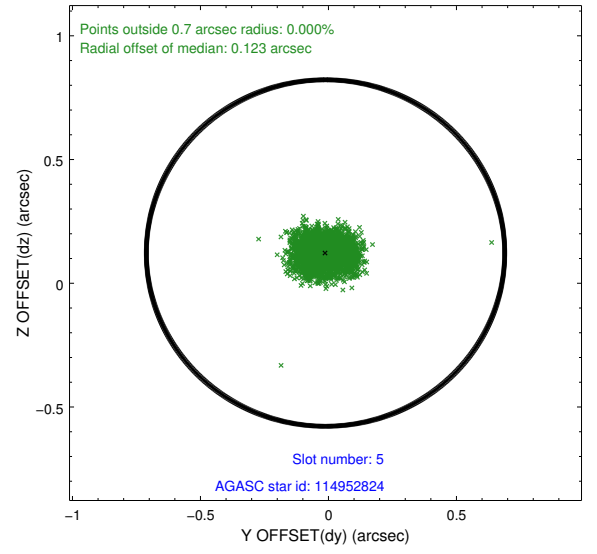
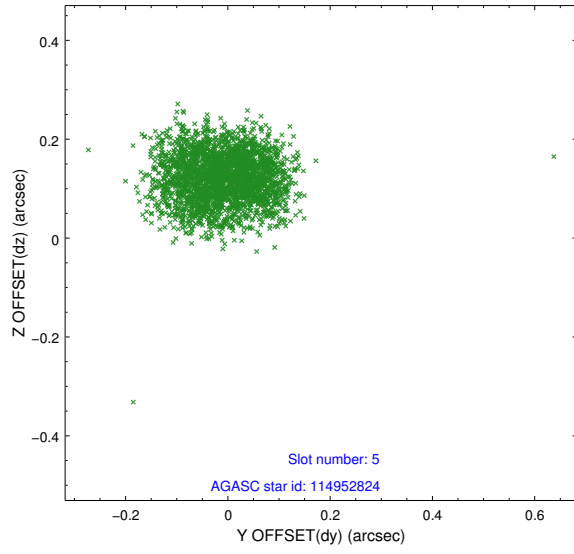
2.4.1 Slot 3



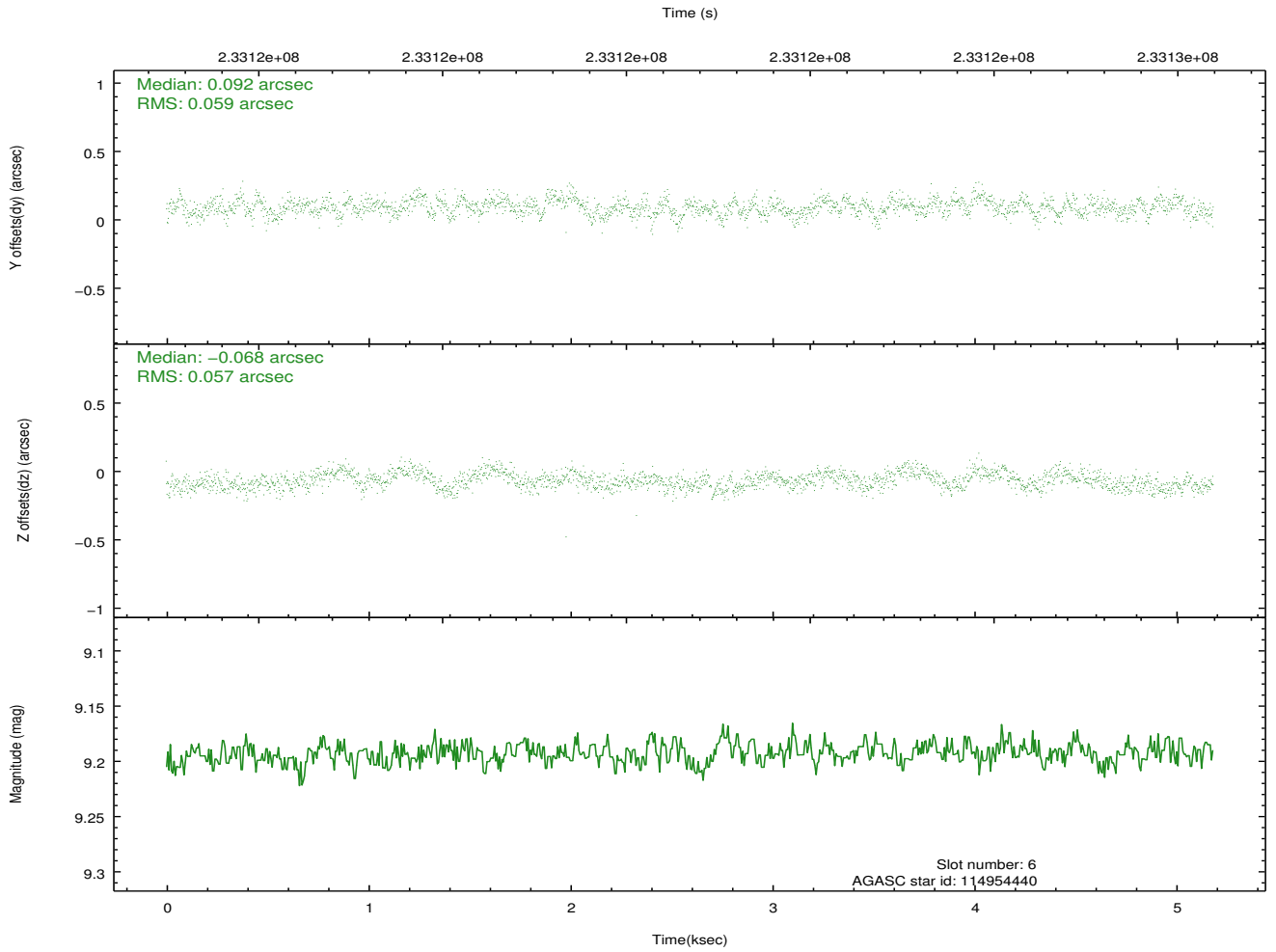
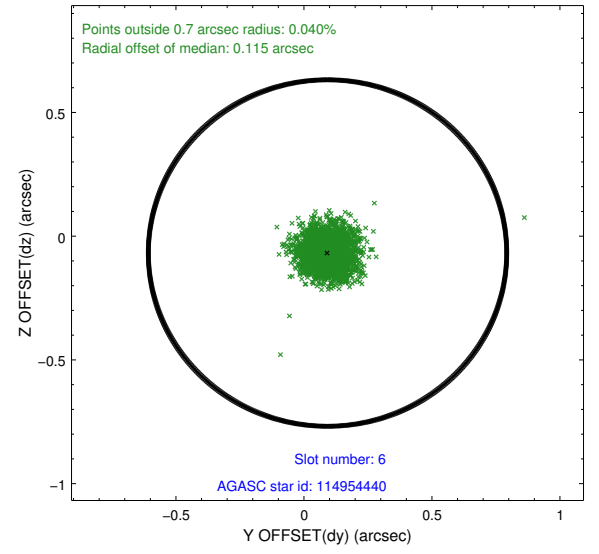
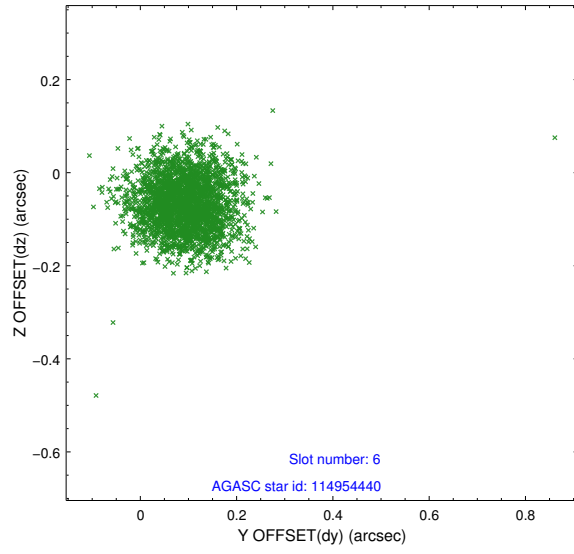
2.4.2 Slot 4



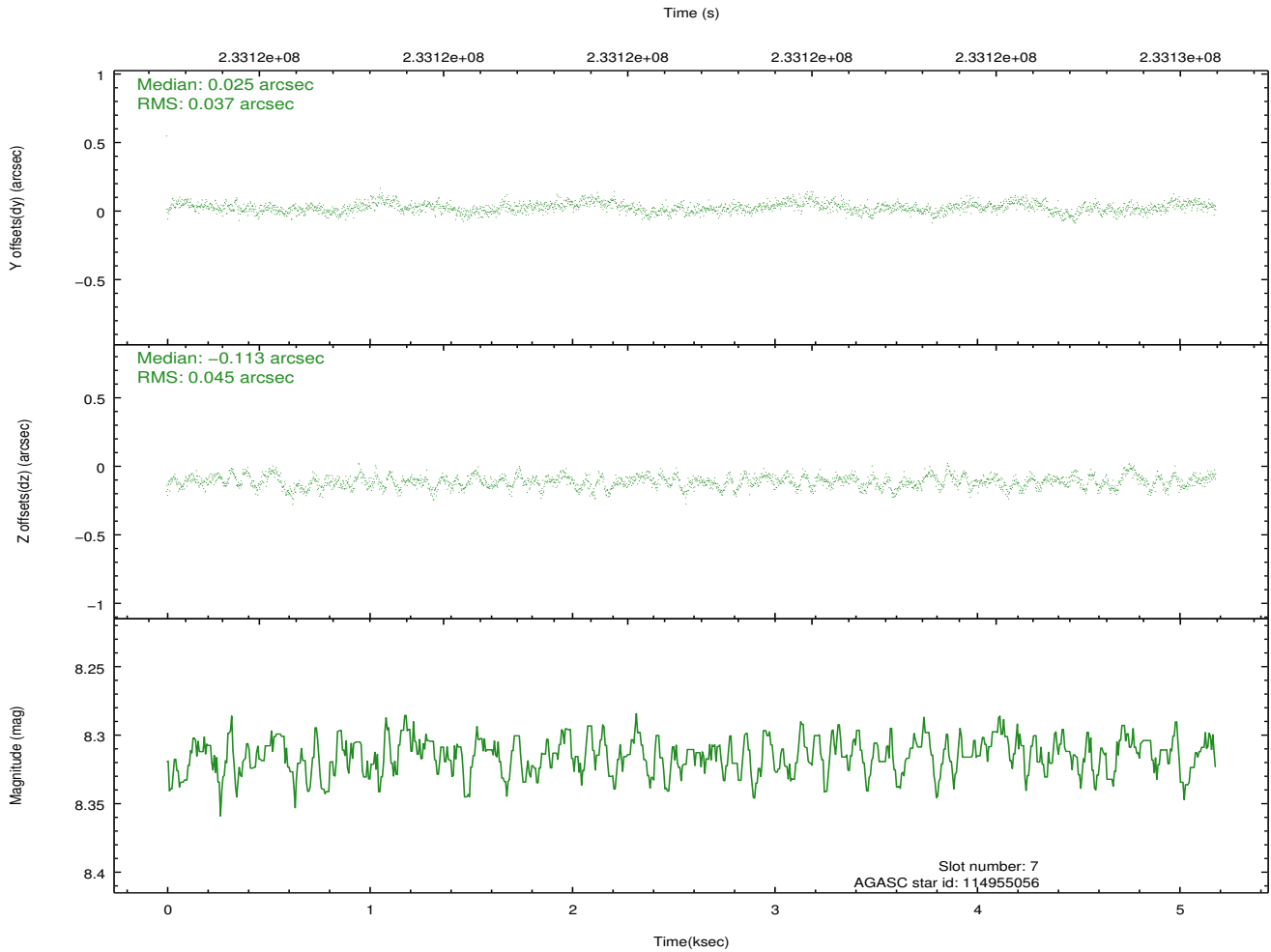
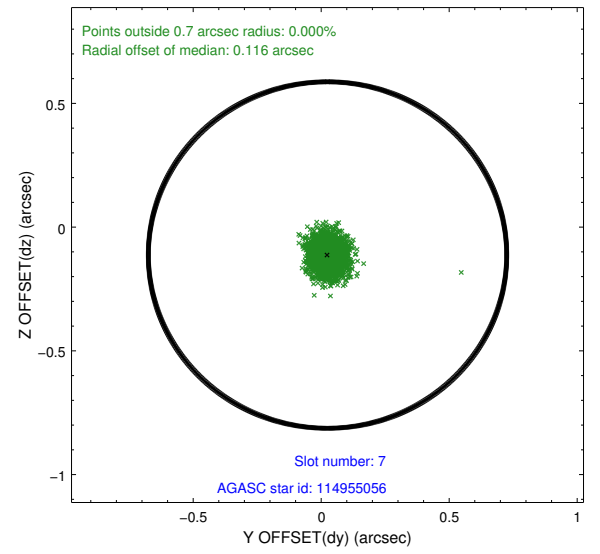
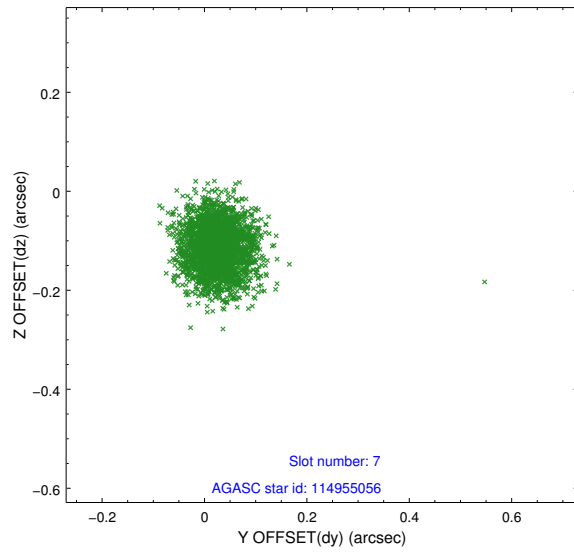
2.4.3 Slot 5



2.4.4 Slot 6

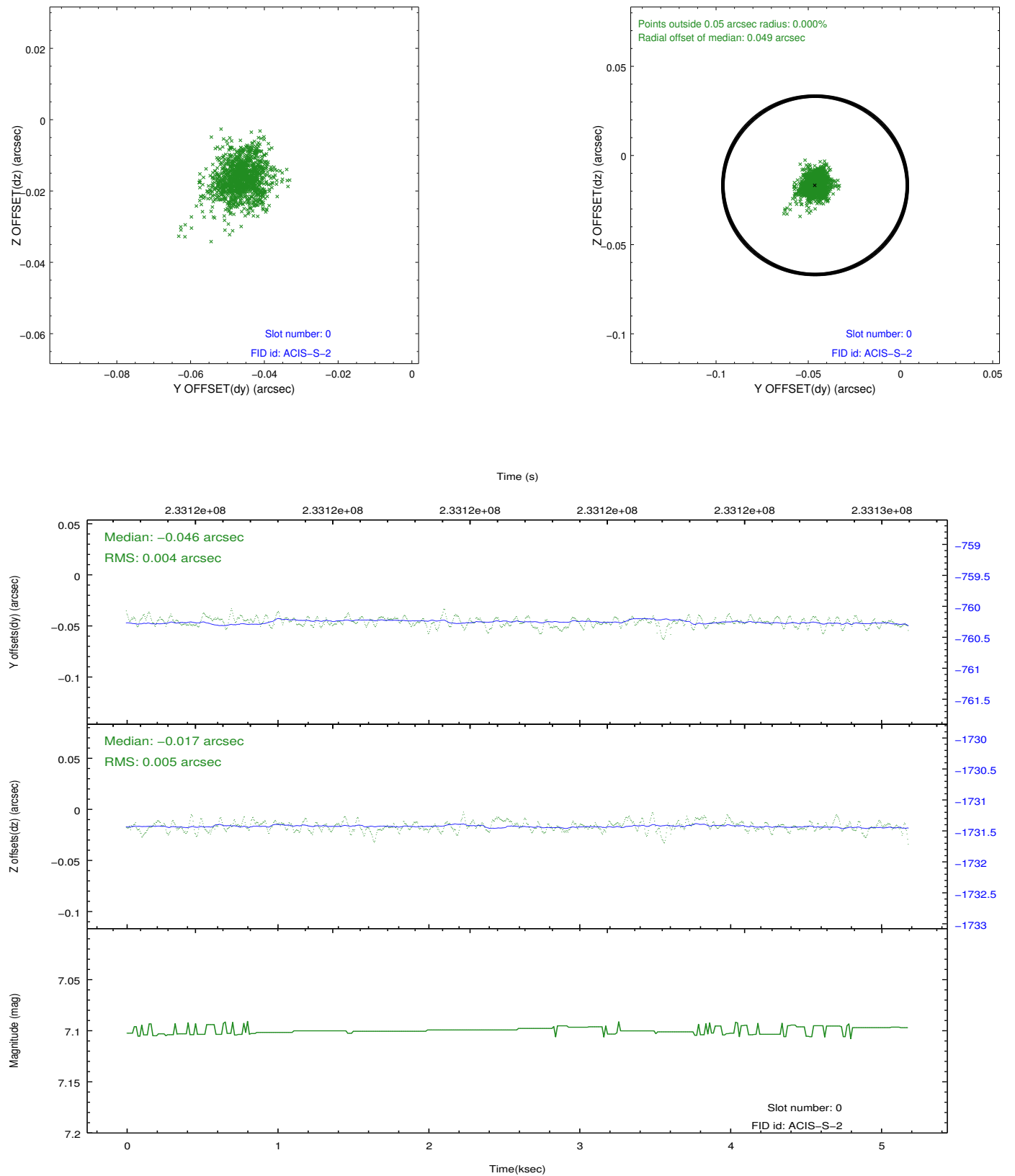


2.4.5 Slot 7

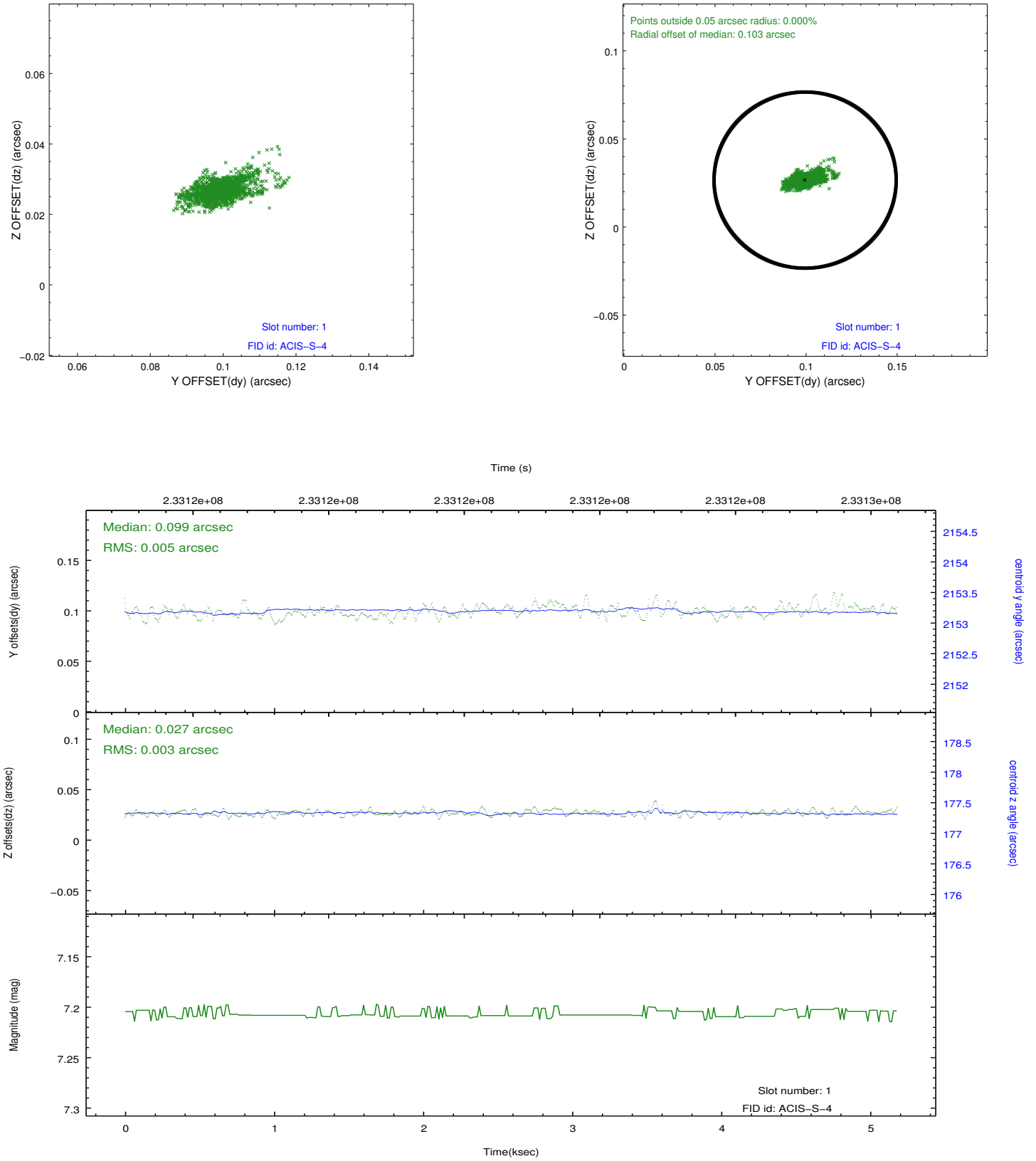


2.5 FID Slots

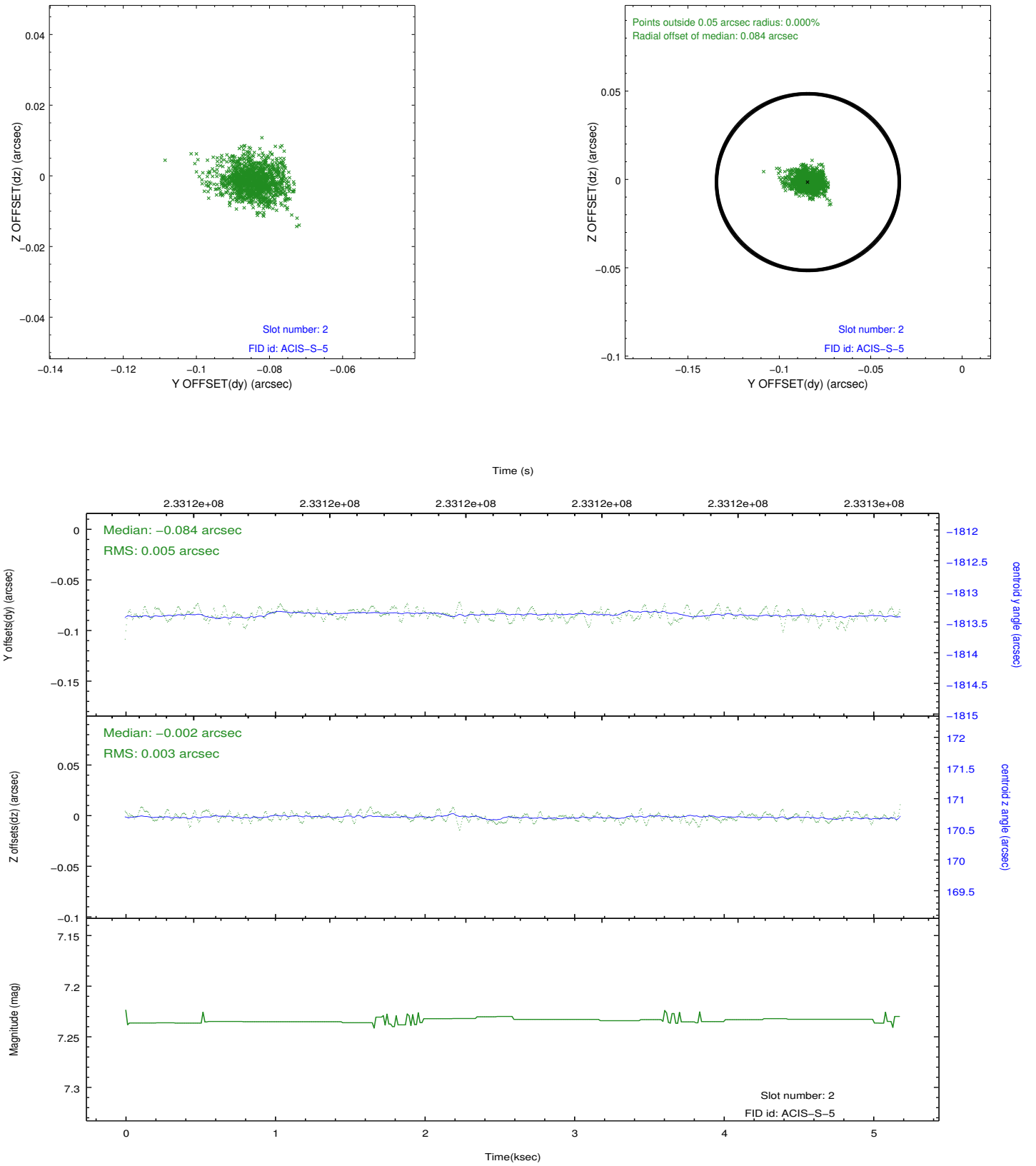
2.5.1 Slot 0



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)	2013.01.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1832

A.2 Comments

Joint Proposal: CX0-HST. Window constraint met.