

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9016 - L2 Version 3
Chandra X-Ray Center

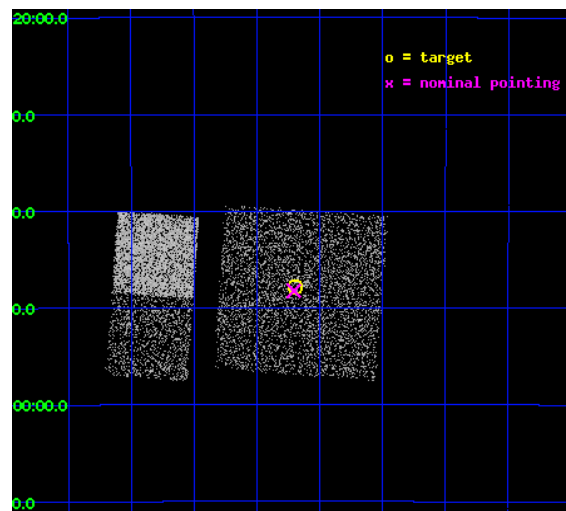
L2 Processing Date : May 21 2012

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1 Front

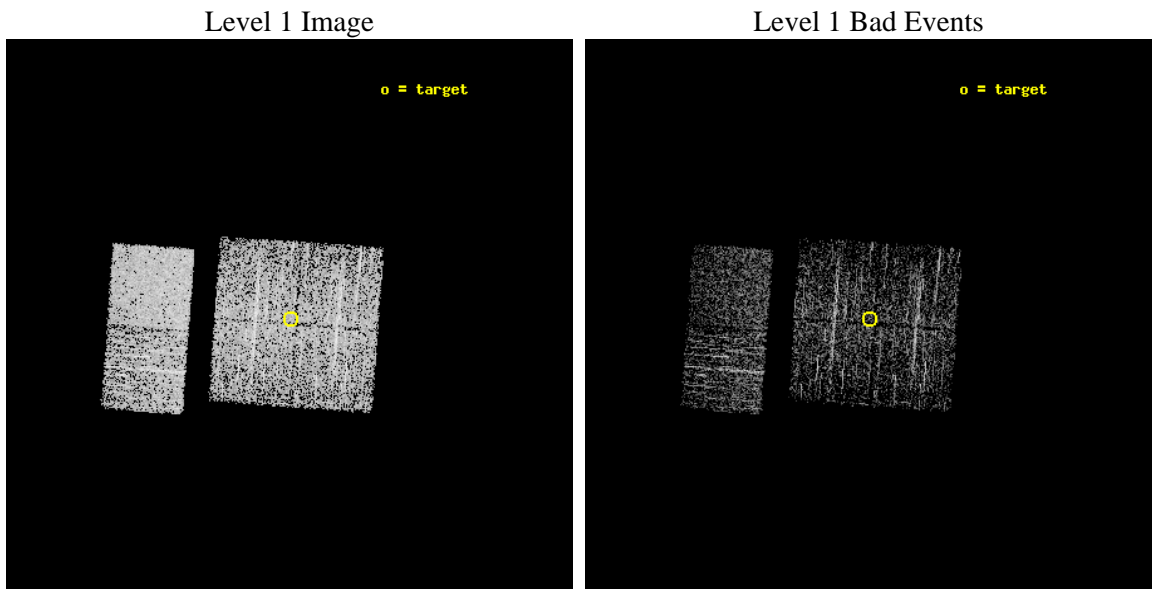
seq_num	400867	Sequence number
obs_id	9016	Observation id
title	Chandra observations of an enigmatic class of faint accreting slow pulsators	Proposal title
observer	Dr. Rudy Wijnands	Principal investigator
object	AX J1740.1-2847	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.048333	Observer's specified target RA [deg]
dec_targ	-28.796667	Observer's specified target Dec [deg]
ra_nom	265.05131413477	Nominal RA [deg]
dec_nom	-28.803998316536	Nominal Dec [deg]
roll_nom	274.21038218171	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1167.9999957085	Sum of GTIs [s]
livetime	1153.2100764776	Livetime [s]
ontime0	1167.9999957085	Sum of GTIs [s]
ontime1	1167.9999957085	Sum of GTIs [s]
ontime2	1167.9999957085	Sum of GTIs [s]
ontime3	1167.9999957085	Sum of GTIs [s]
ontime6	1167.9999957085	Sum of GTIs [s]
ontime7	1167.9999957085	Sum of GTIs [s]
l2events	13493	Number of level 2 events



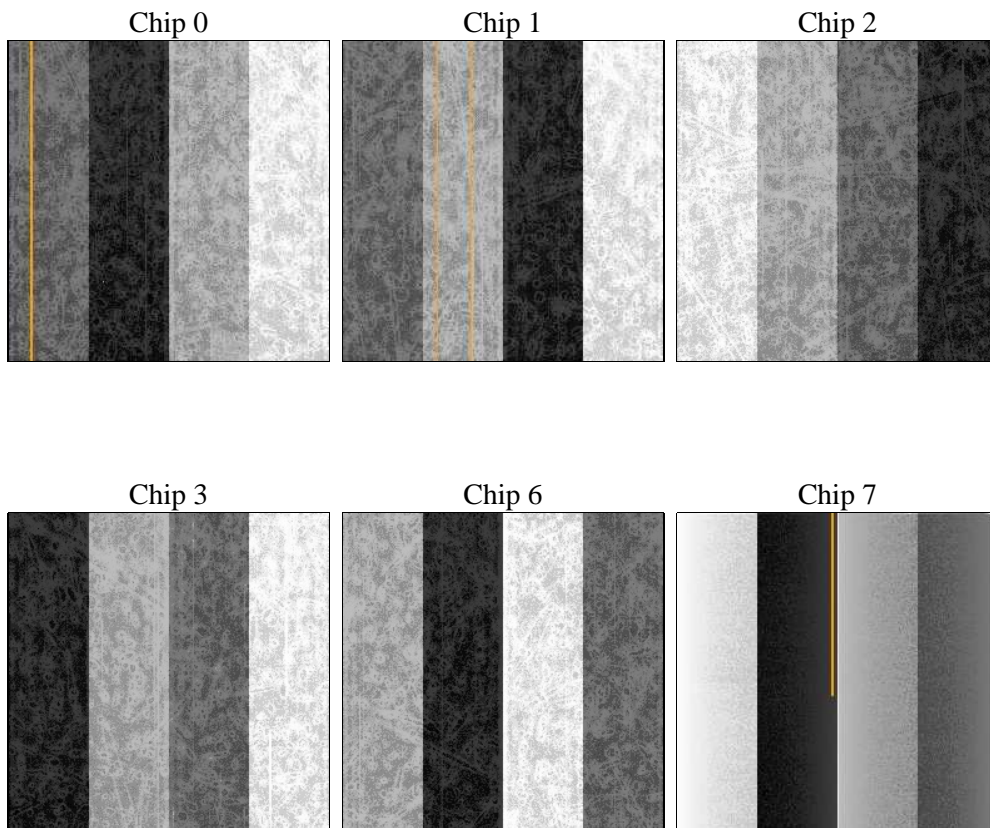
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	1167.9999957085	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	1167.9999957085	Sum of GTIs [s]
date	2012-05-21T12:38:40	Date and time of file creation	ontime1	1167.9999957085	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	1167.9999957085	Sum of GTIs [s]
			ontime3	1167.9999957085	Sum of GTIs [s]
			ontime6	1167.9999957085	Sum of GTIs [s]
			ontime7	1167.9999957085	Sum of GTIs [s]
			l1events	71410	Number of level 1 events

2.1.4 Events

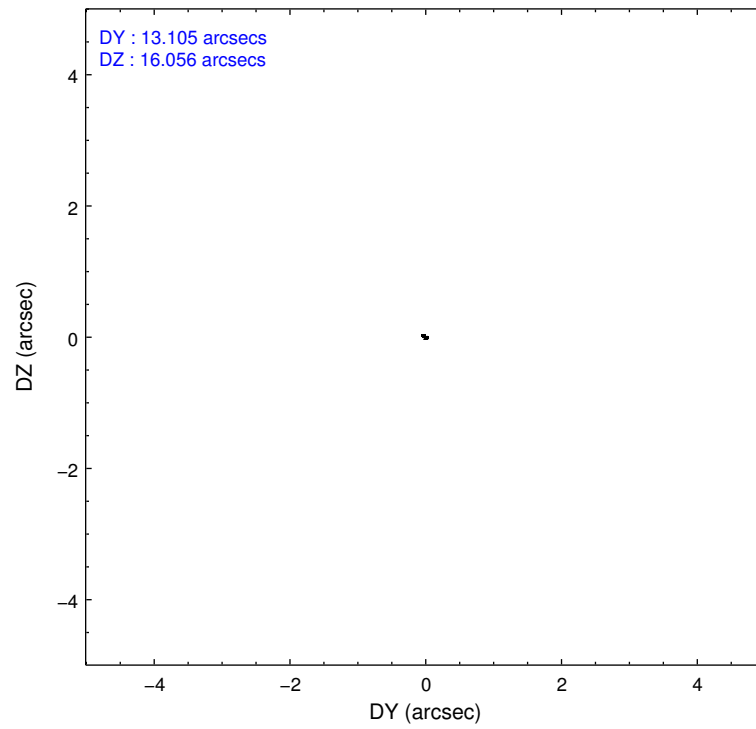
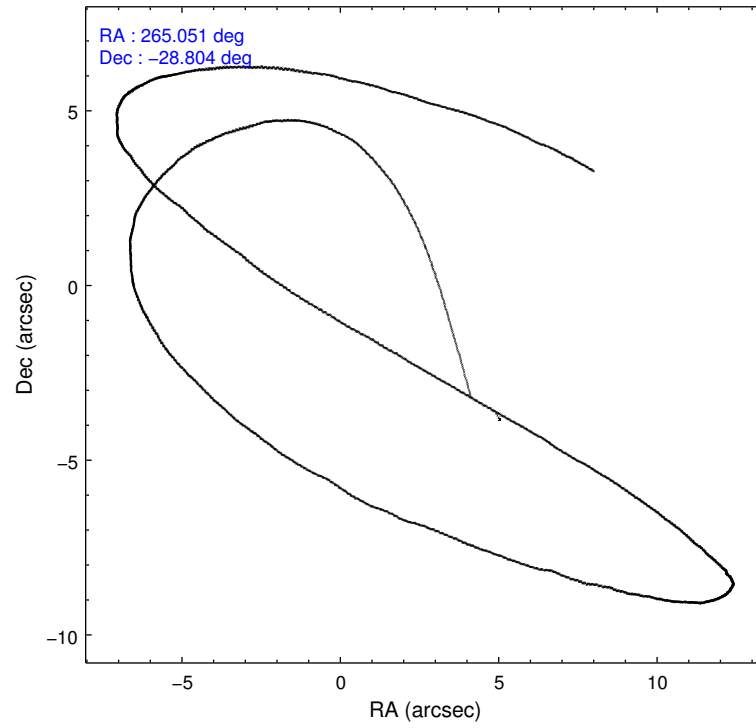
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	10560	10793	10758	10968	12238	16093
rejected events	8982	9169	9221	9369	10734	9309
rejected %	85%	84%	85%	85%	87%	57%

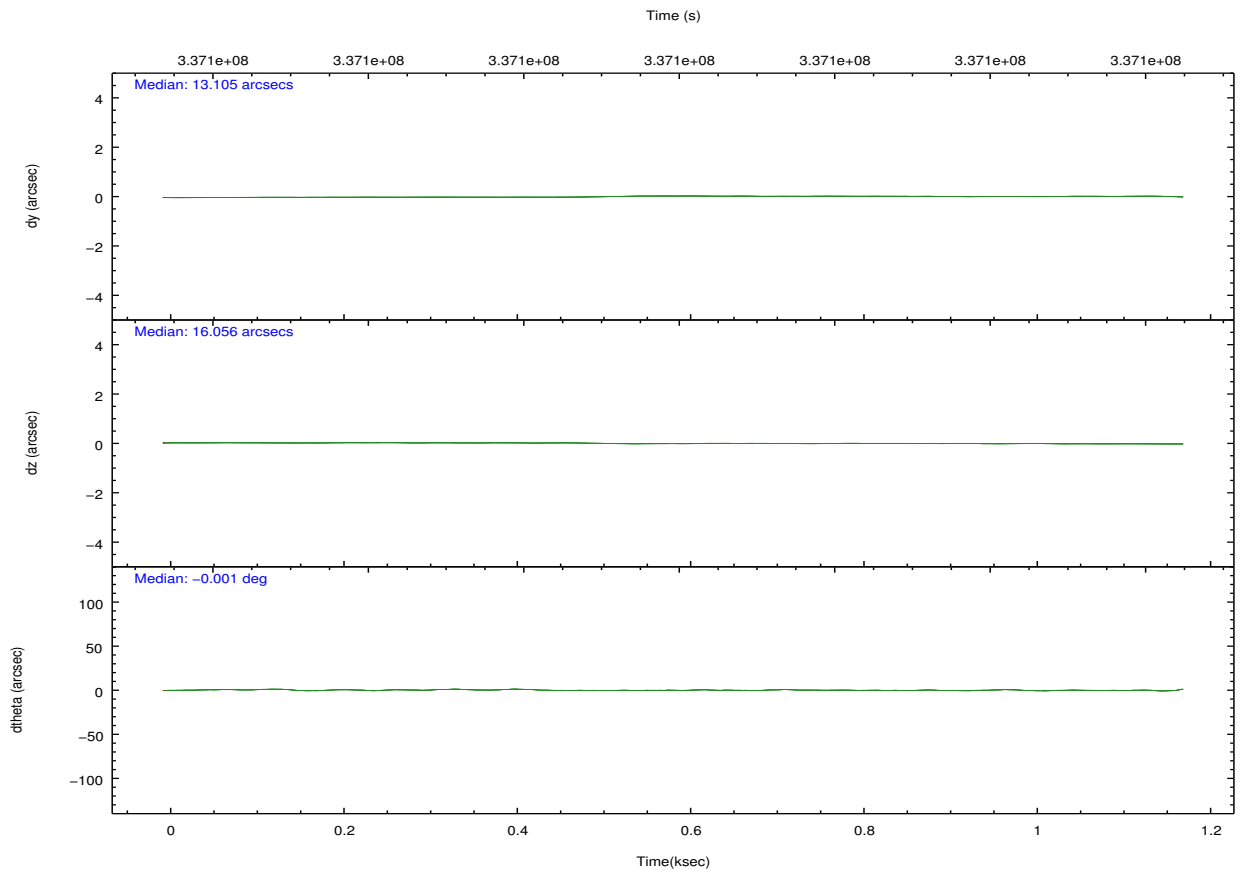
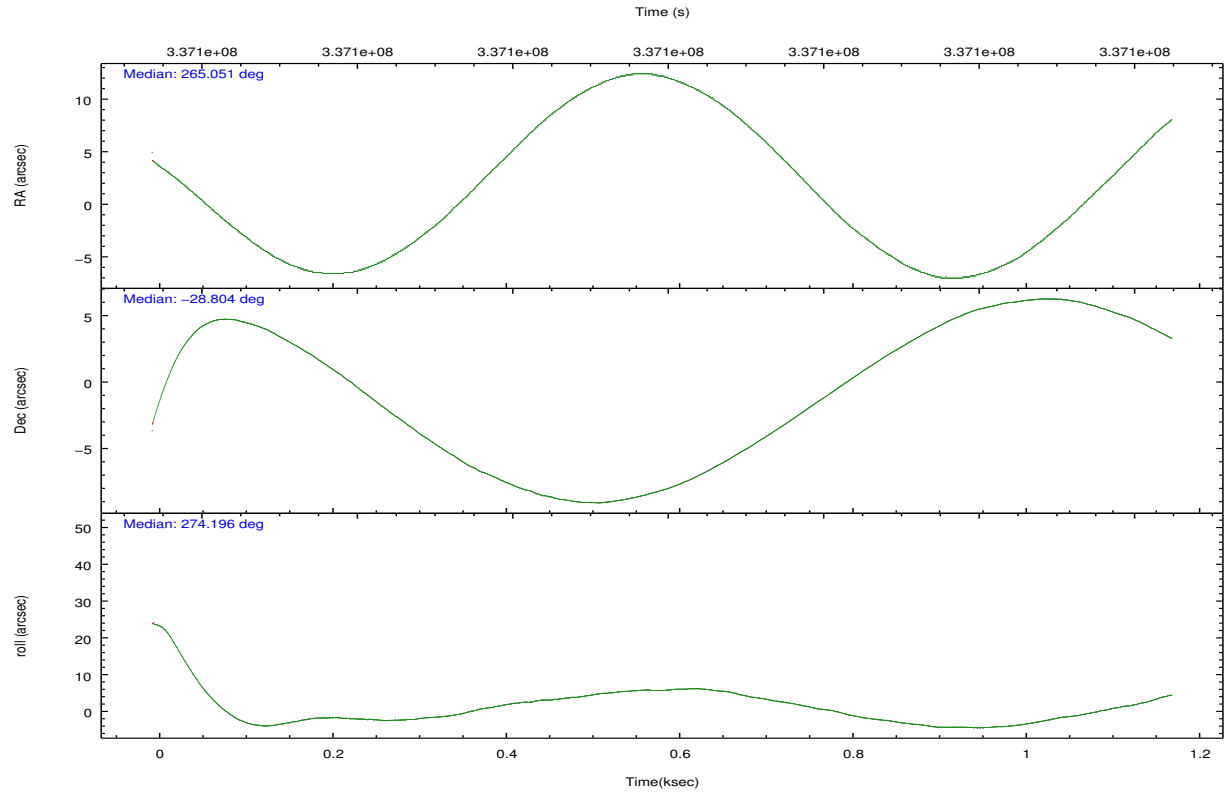
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	722	676	748	759	621	622
	6%	6%	6%	6%	5%	3%
grade 1 events	4	8	7	6	9	12
	0%	0%	0%	0%	0%	0%
grade 2 events	353	346	306	293	348	1324
	3%	3%	2%	2%	2%	8%
grade 3 events	138	158	133	160	125	557
	1%	1%	1%	1%	1%	3%
grade 4 events	118	134	134	140	126	575
	1%	1%	1%	1%	1%	3%
grade 5 events	418	517	445	573	567	1569
	3%	4%	4%	5%	4%	9%
grade 6 events	257	321	223	256	292	3720
	2%	2%	2%	2%	2%	23%
grade 7 events	8550	8633	8762	8781	10150	7714
	80%	79%	81%	80%	82%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	265.033968	265.0513141347741	CCD I2 on	Y	Y
[deg] Pointing Dec	-28.781505	-28.80399831653611	CCD I3 on	Y	Y
[deg] Pointing Roll	273.993084	274.2103821817122	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	337100169.184000	337099099.21423	CCD S5 on	N	N
Observation start date	2008-09-06T14:55:04	2008-09-06T14:38:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	337101169.184000	337102284.91438	On-chip summing requested	N	N
Observation end date	2008-09-06T15:11:44	2008-09-06T15:31:24	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



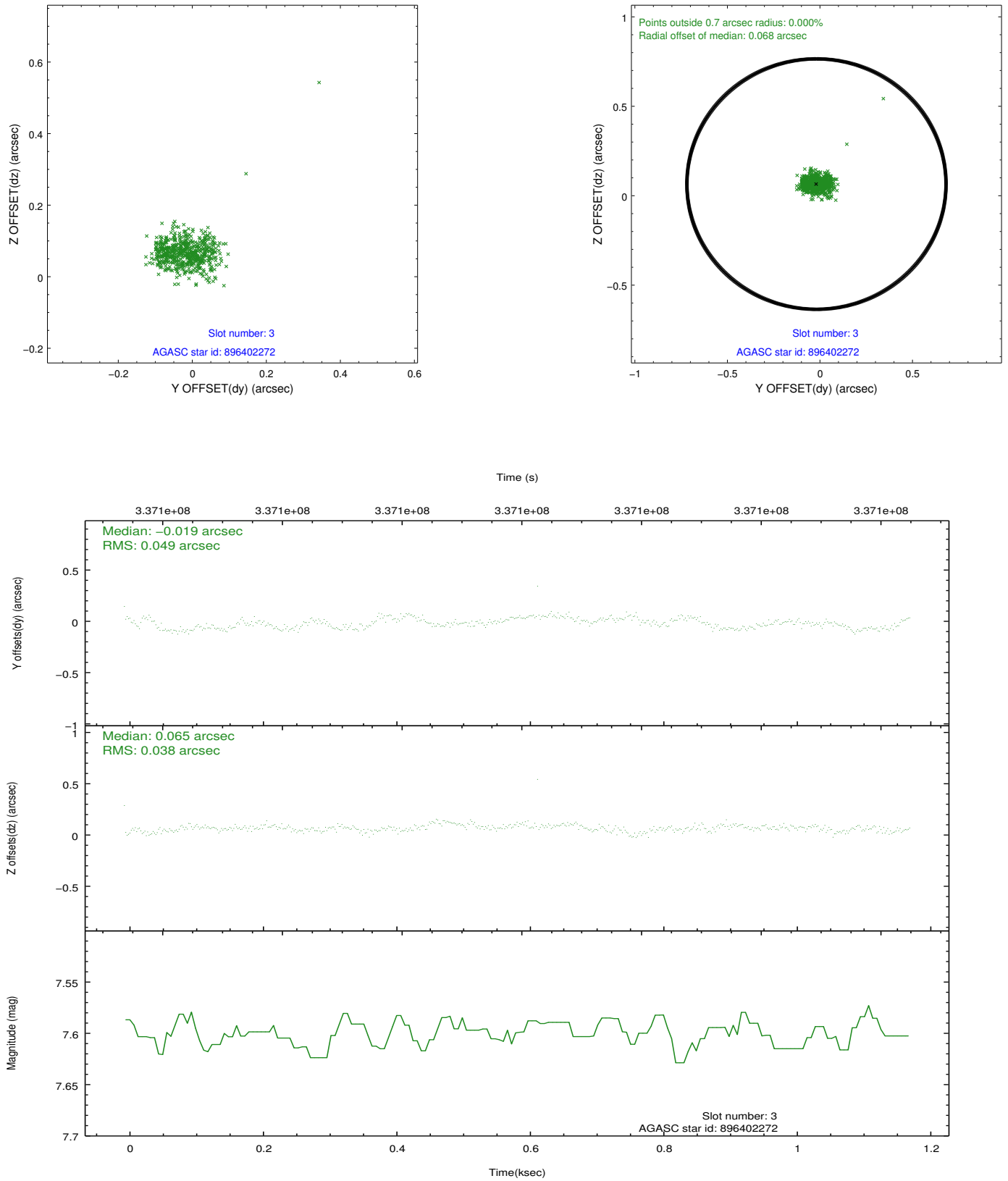


Slot Statistics

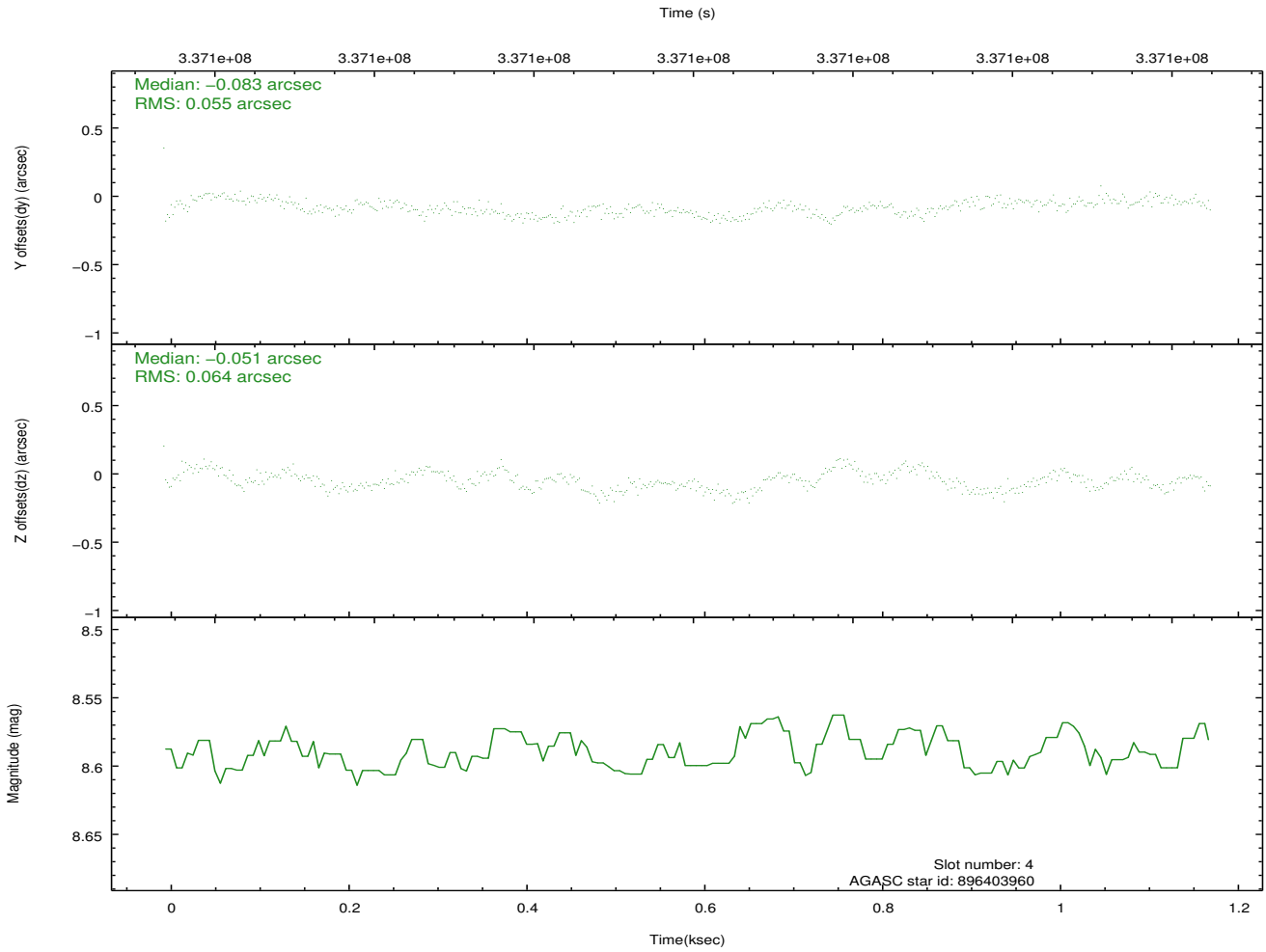
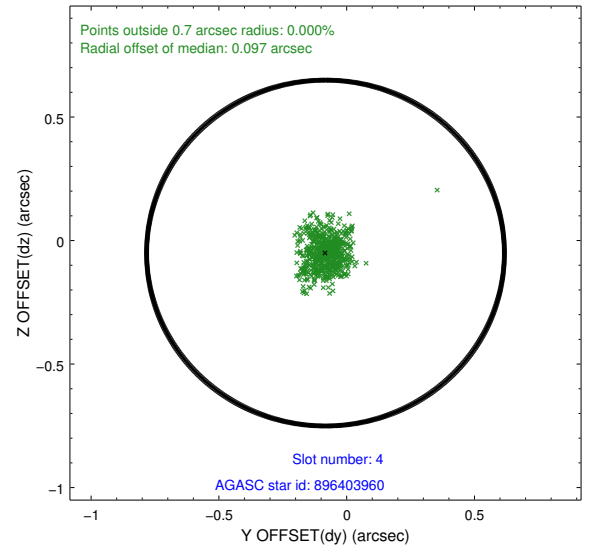
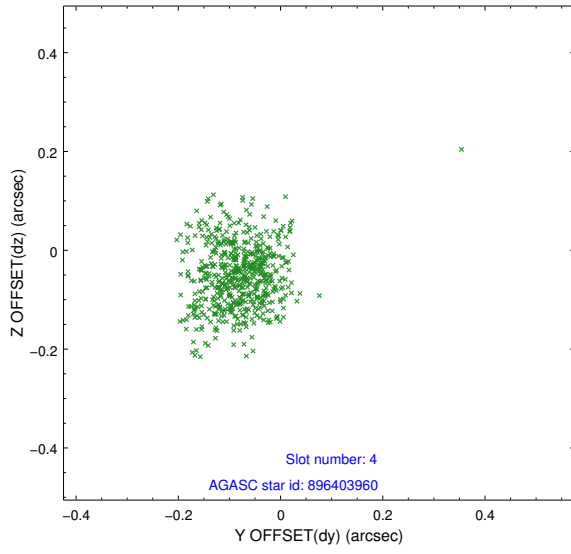
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.01	288	0.052	-0.034	0.005	0.008	0.000000	0.000000	926.45	-839.73
1	FID	ACIS-I-5	6.99	288	-0.196	0.057	0.005	0.009	0.000000	0.000000	-1818.75	1055.04
2	FID	ACIS-I-6	7.01	288	0.052	0.047	0.006	0.011	0.000000	0.000000	385.88	1705.91
3	GUIDE	896402272	7.60	575	-0.019	0.065	0.062	0.092	265.637294	-28.313189	-1543.45	2026.01
4	GUIDE	896403960	8.59	575	-0.083	-0.051	0.088	0.141	264.379044	-28.245612	-2064.90	-1933.40
5	GUIDE	896404568	7.88	575	0.030	0.039	0.052	0.085	265.687293	-28.431080	-1111.92	2148.87
6	GUIDE	896405616	7.84	575	-0.036	0.030	0.066	0.100	264.752771	-28.412560	-1386.13	-791.34
7	GUIDE	896406568	8.24	574	0.105	-0.084	0.069	0.114	264.435951	-28.437282	-1364.26	-1802.64

2.4 Star Slots

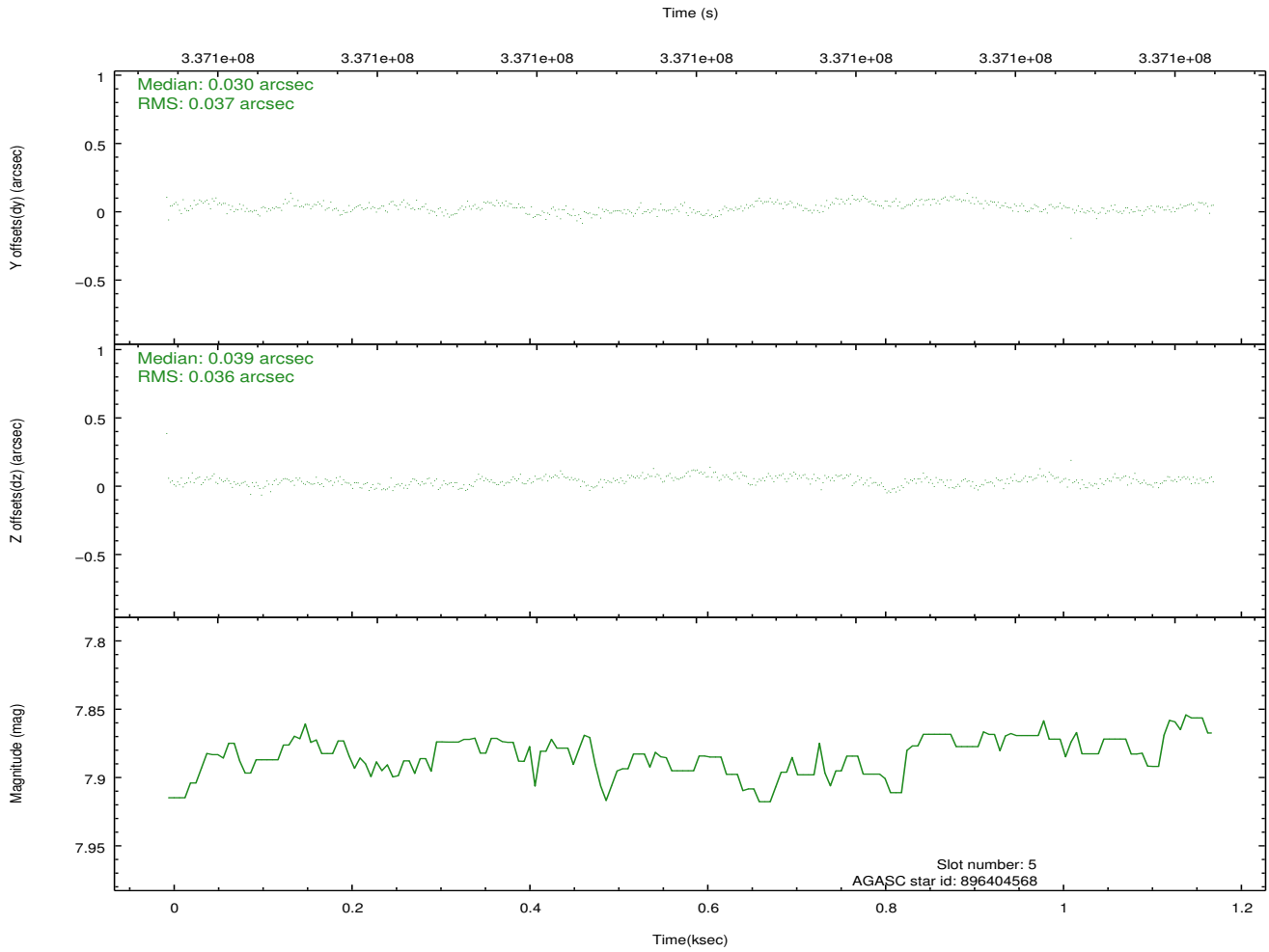
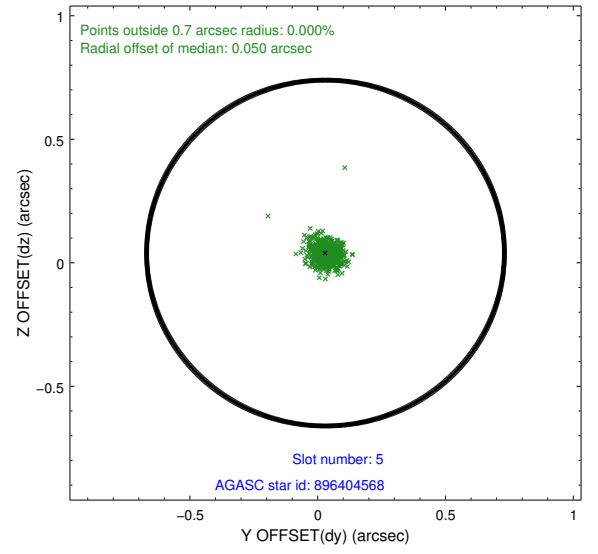
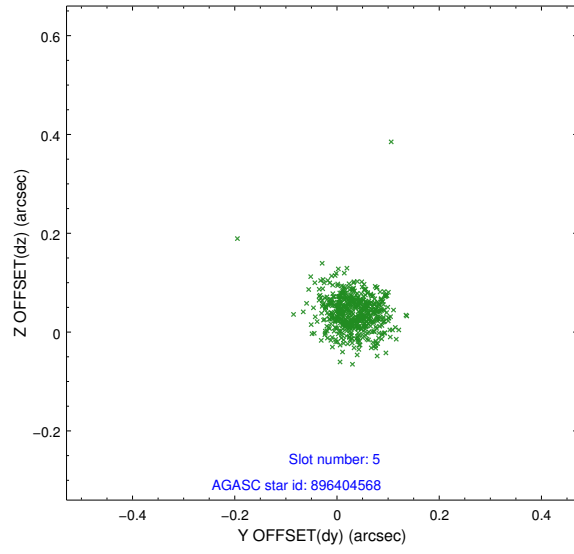
2.4.1 Slot 3



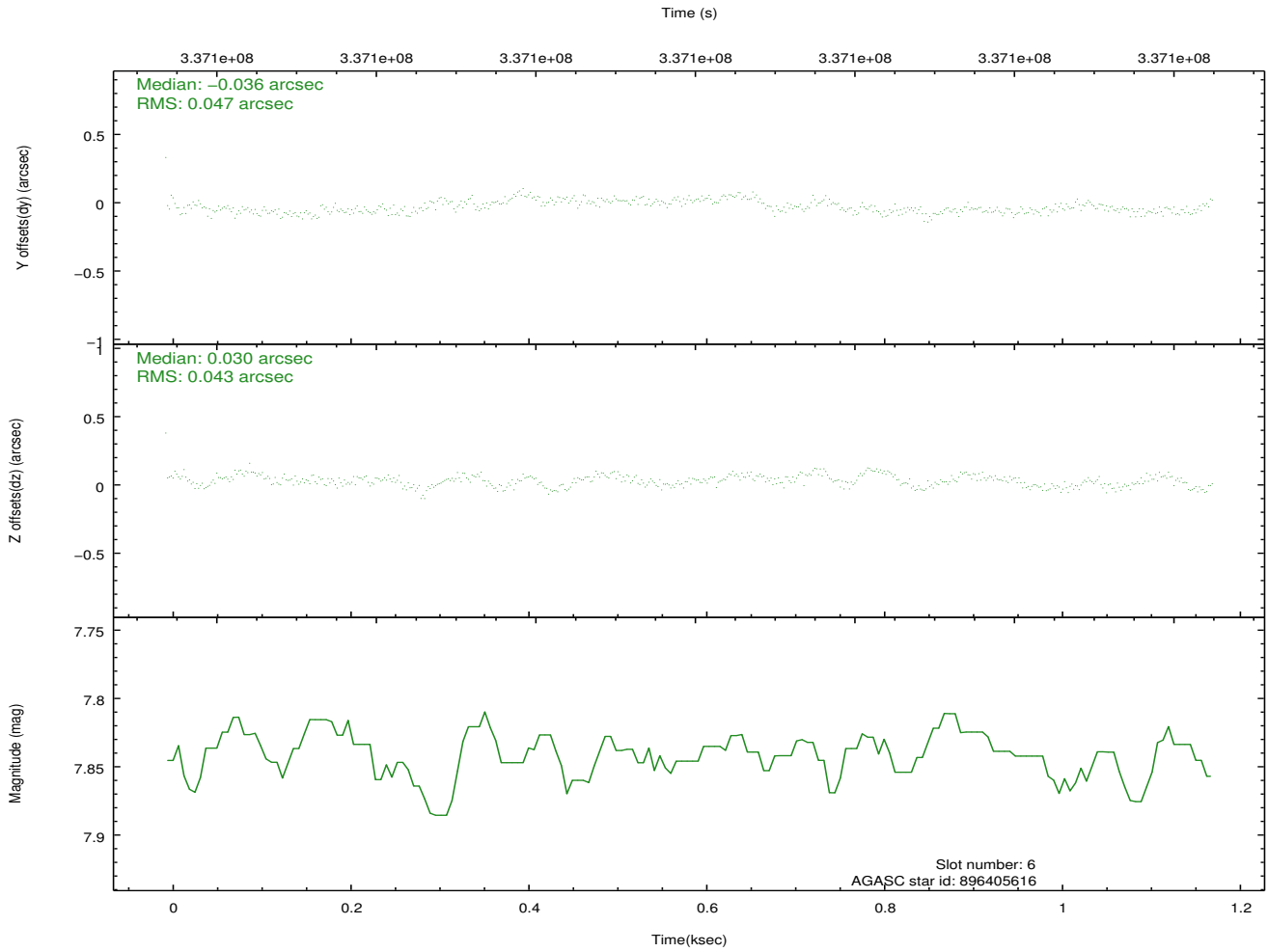
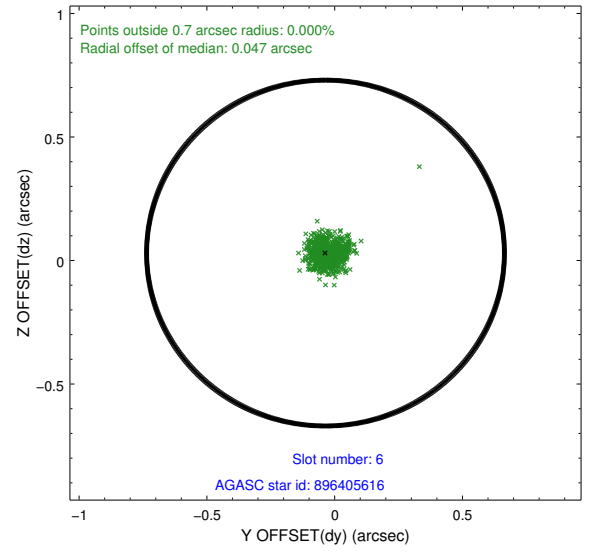
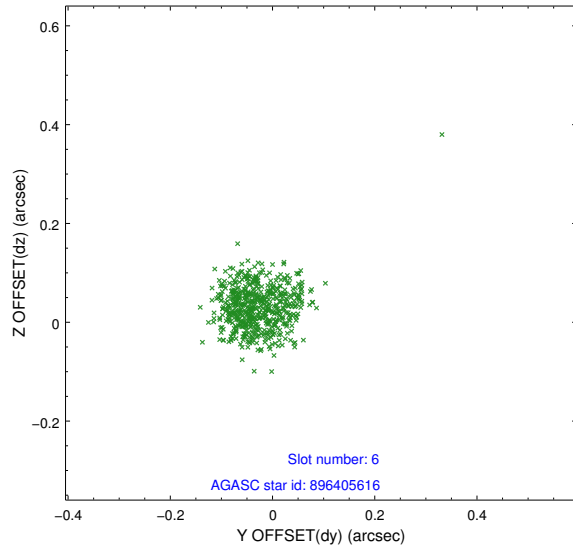
2.4.2 Slot 4



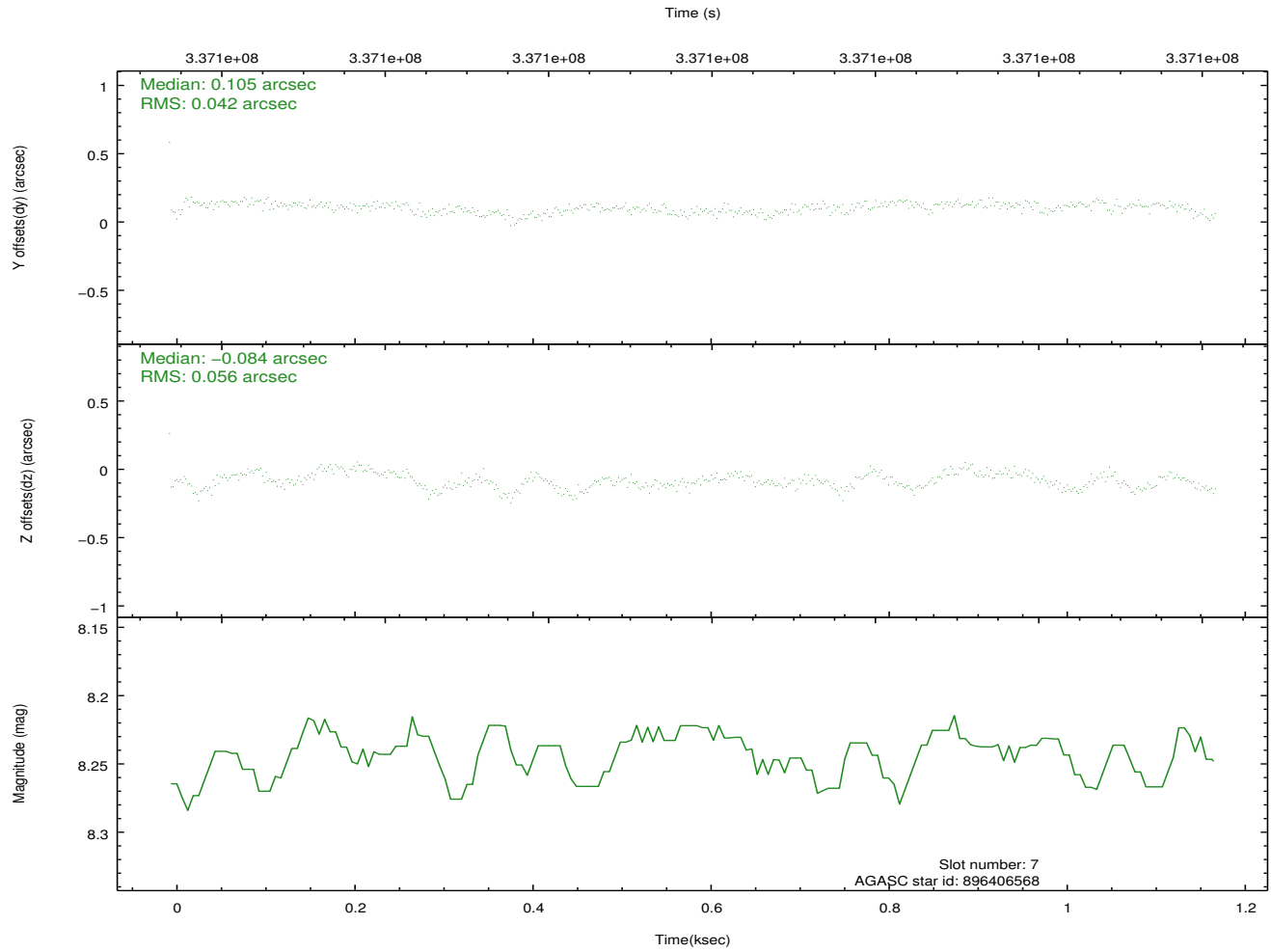
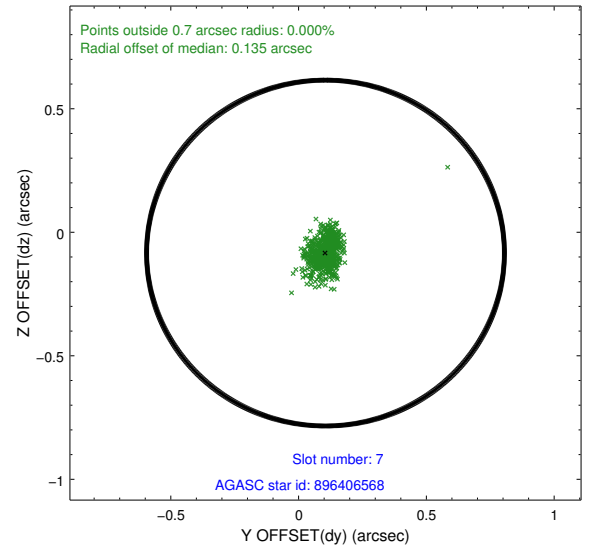
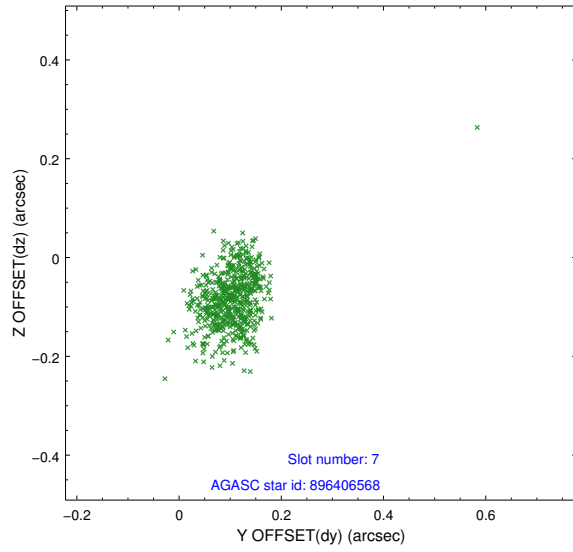
2.4.3 Slot 5



2.4.4 Slot 6

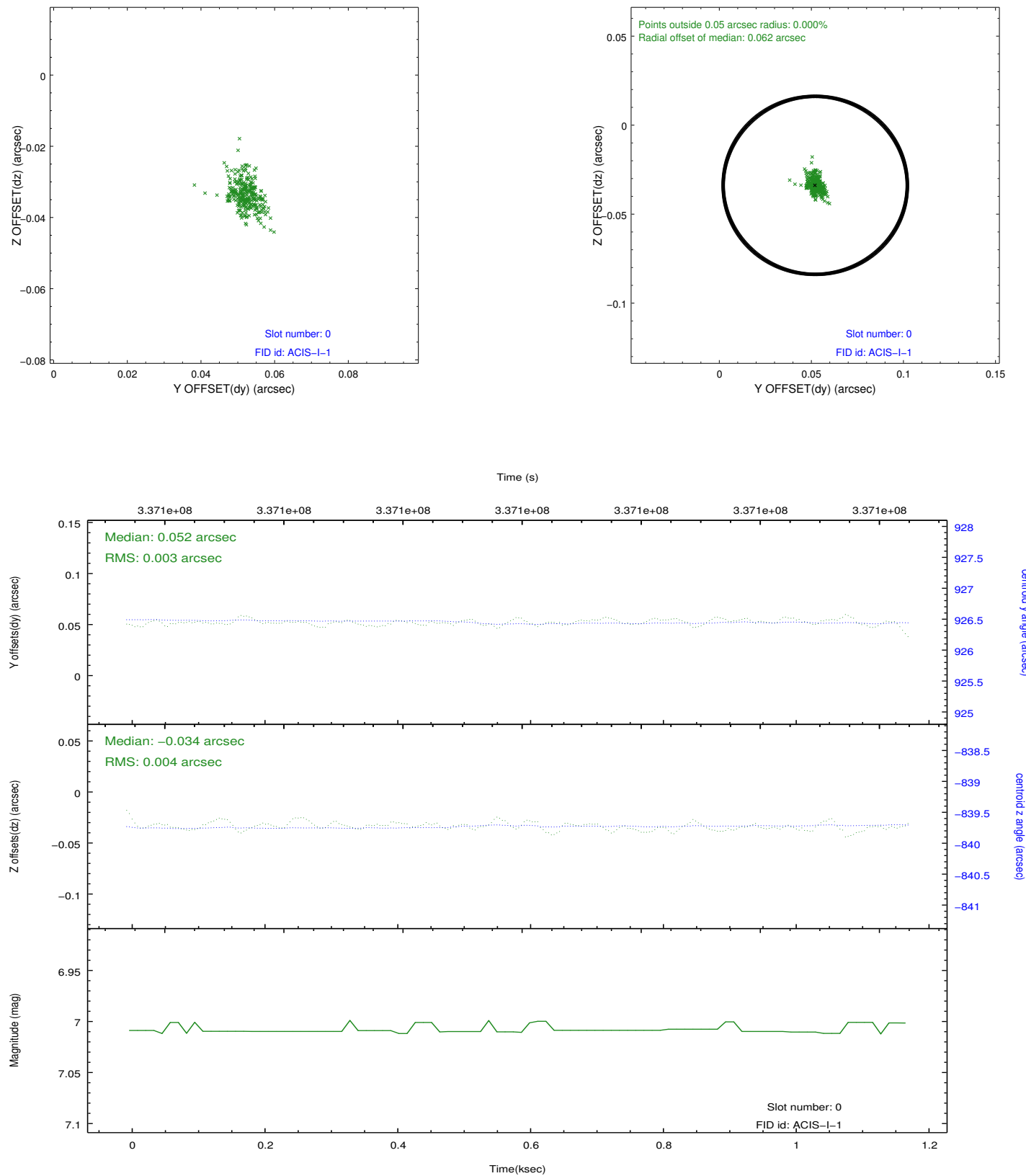


2.4.5 Slot 7

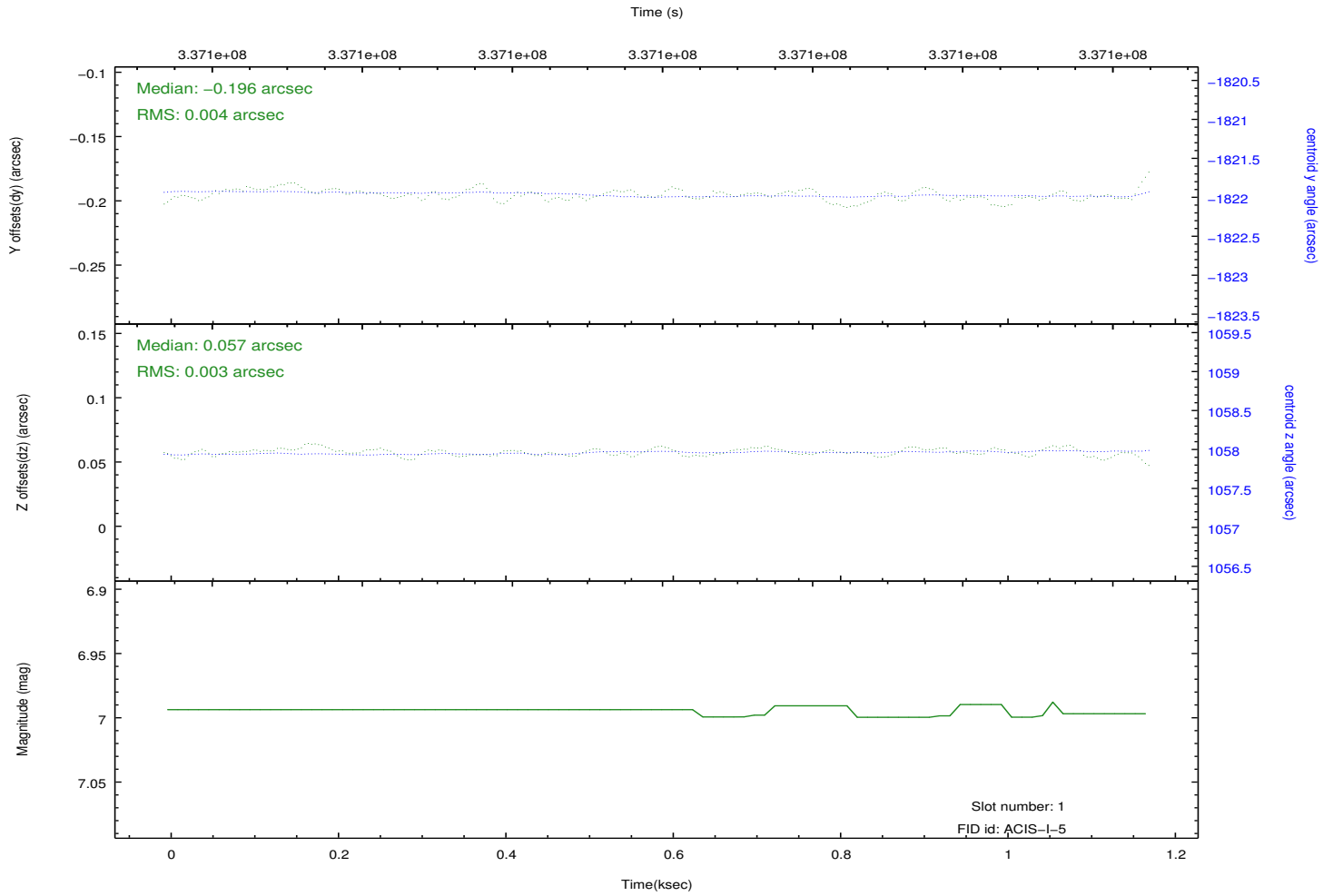
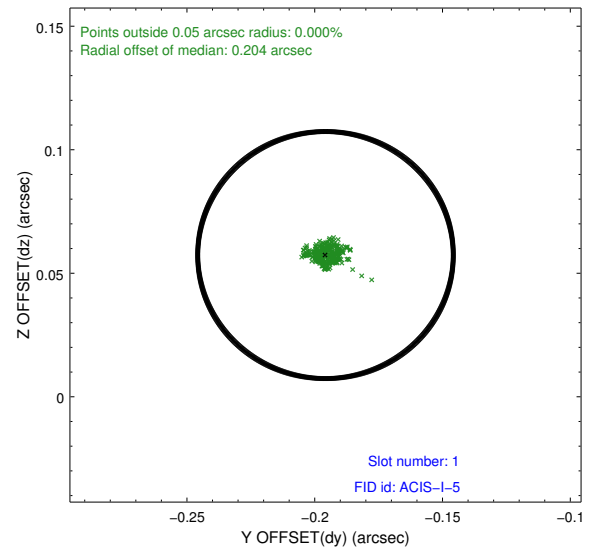
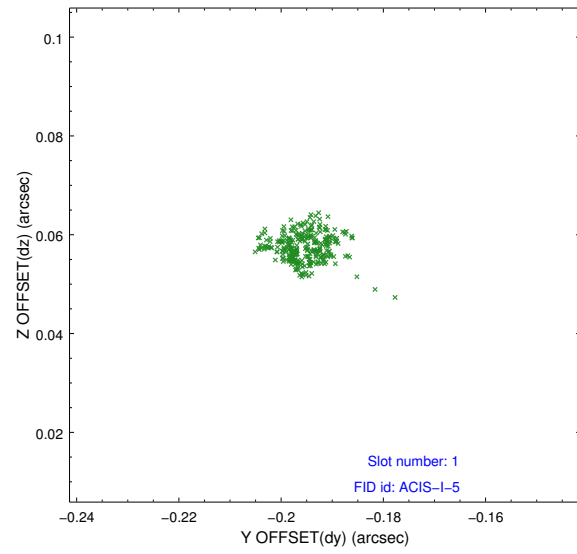


2.5 FID Slots

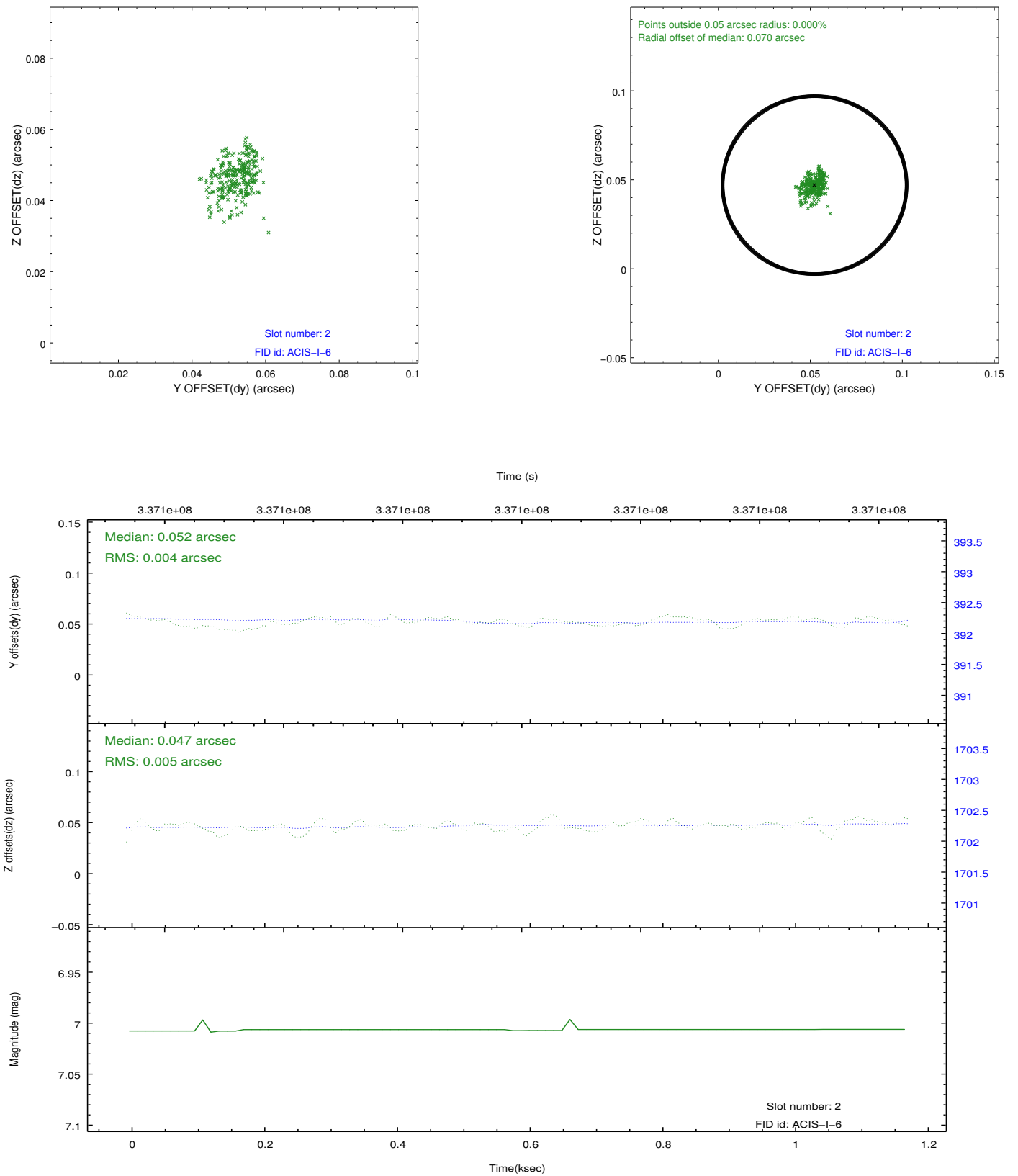
2.5.1 Slot 0



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)	2012.05.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.16799999

A.2 Comments

The coordinates requested by the observer do not match the NED coordinates for this object. There is a source a little less than 1 arcmin to the northwest, but that source falls into the CCD chip gap.

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A spatial region of the original bias map for CCD = 0 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 (~20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 0 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:
(264.98950,-28.95122),(265.02136,-28.94924),(265.02118,-28.94707),(264.98810,-28.93449)

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Joint Proposal: XMM