

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13922 - L2 Version 3
Chandra X-Ray Center

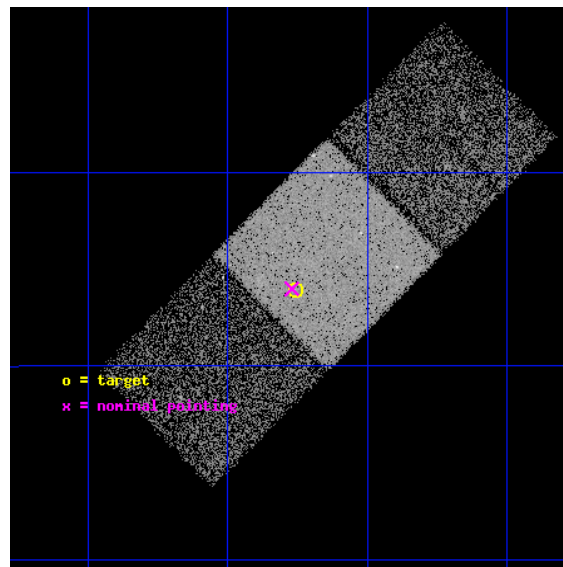
L2 Processing Date : Feb 26 2012

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1 Front

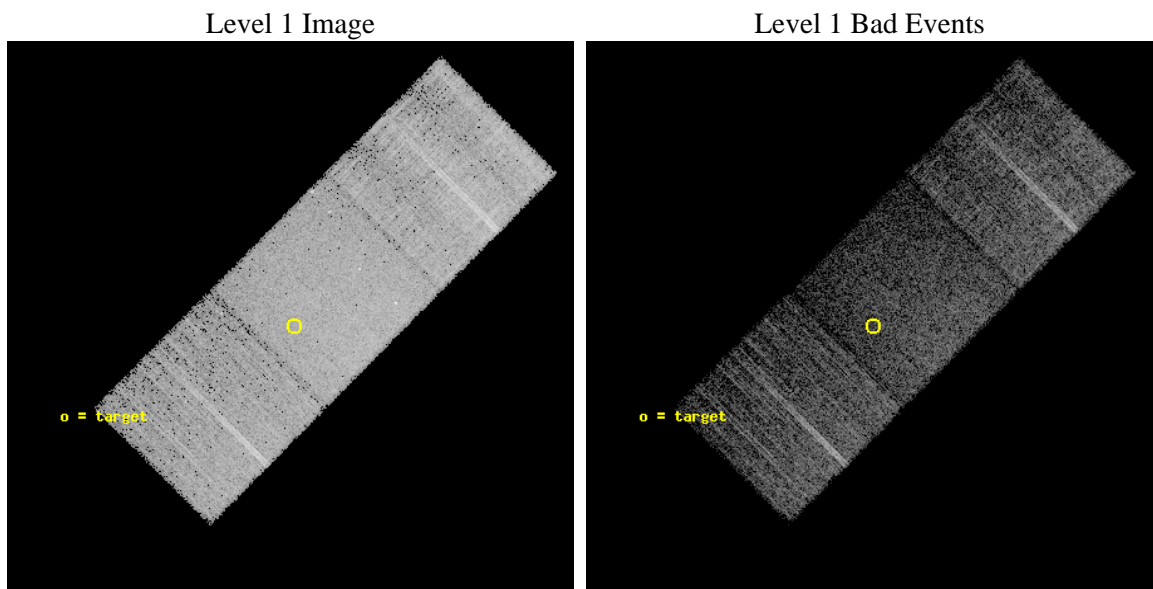
seq_num	702646	Sequence number
obs_id	13922	Observation id
title	Dawn of a quasar: the exceptional variability of IRAS 00397-1312	P
observer	Dr Guido Risaliti	Principal investigator
object	IRAS 00397-1312	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.564583	Observer's specified target RA [deg]
dec_targ	-12.934167	Observer's specified target Dec [deg]
ra_nom	10.567612546718	Nominal RA [deg]
dec_nom	-12.933509824586	Nominal Dec [deg]
roll_nom	314.88601626136	Nominal Roll [deg]
revision	3	Processing version of data
ontime	15059.800115824	Sum of GTIs [s]
livetime	14863.032740447	Livetime [s]
ontime6	15059.796353221	Sum of GTIs [s]
ontime7	15059.800115824	Sum of GTIs [s]
ontime8	15056.614302874	Sum of GTIs [s]
l2events	71930	Number of level 2 events



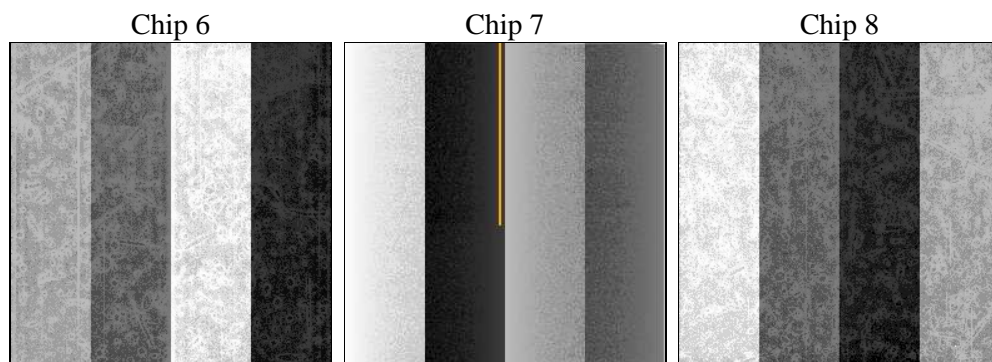
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	15059.800115824	Sum of GTIs [s]
caldsver	4.4.8	 	ontime6	15059.796353221	Sum of GTIs [s]
date	2012-02-26T22:31:43	Date and time of file creation	ontime7	15059.800115824	Sum of GTIs [s]
revision	3	Processing version of data	ontime8	15056.614302874	Sum of GTIs [s]
			l1events	328414	Number of level 1 events

2.1.4 Events

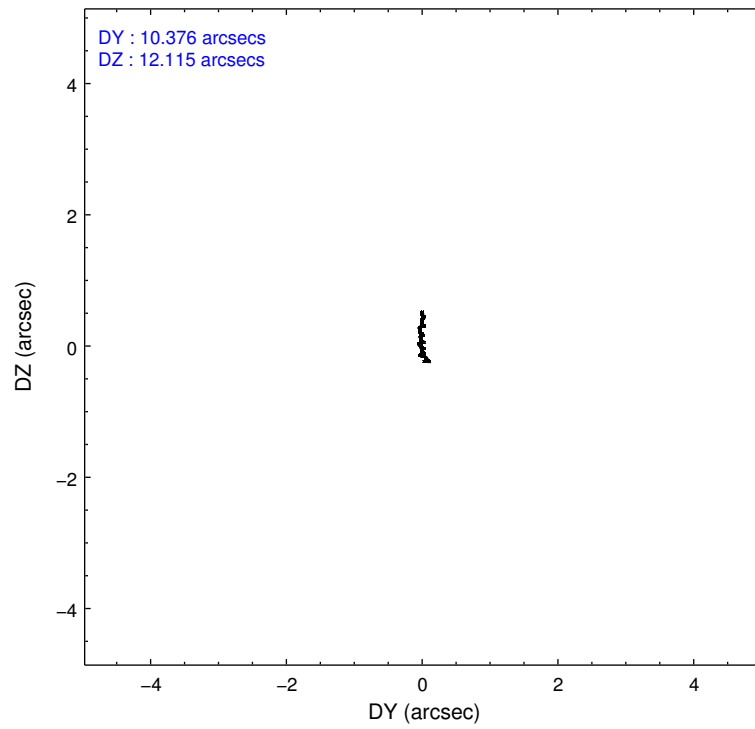
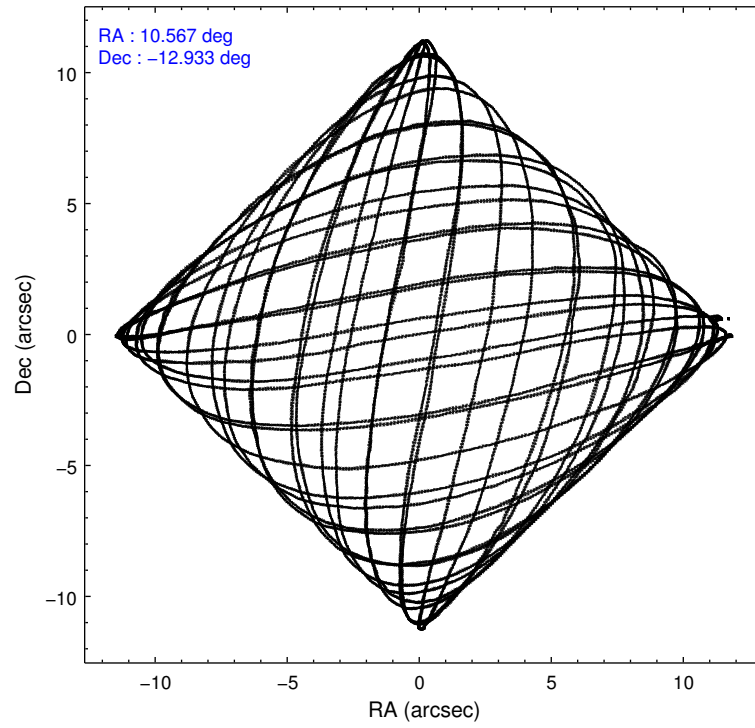
	ccd 6	ccd 7	ccd 8
level 1 events	91034	117504	119876
rejected events	80236	64660	88598
rejected %	88%	55%	73%

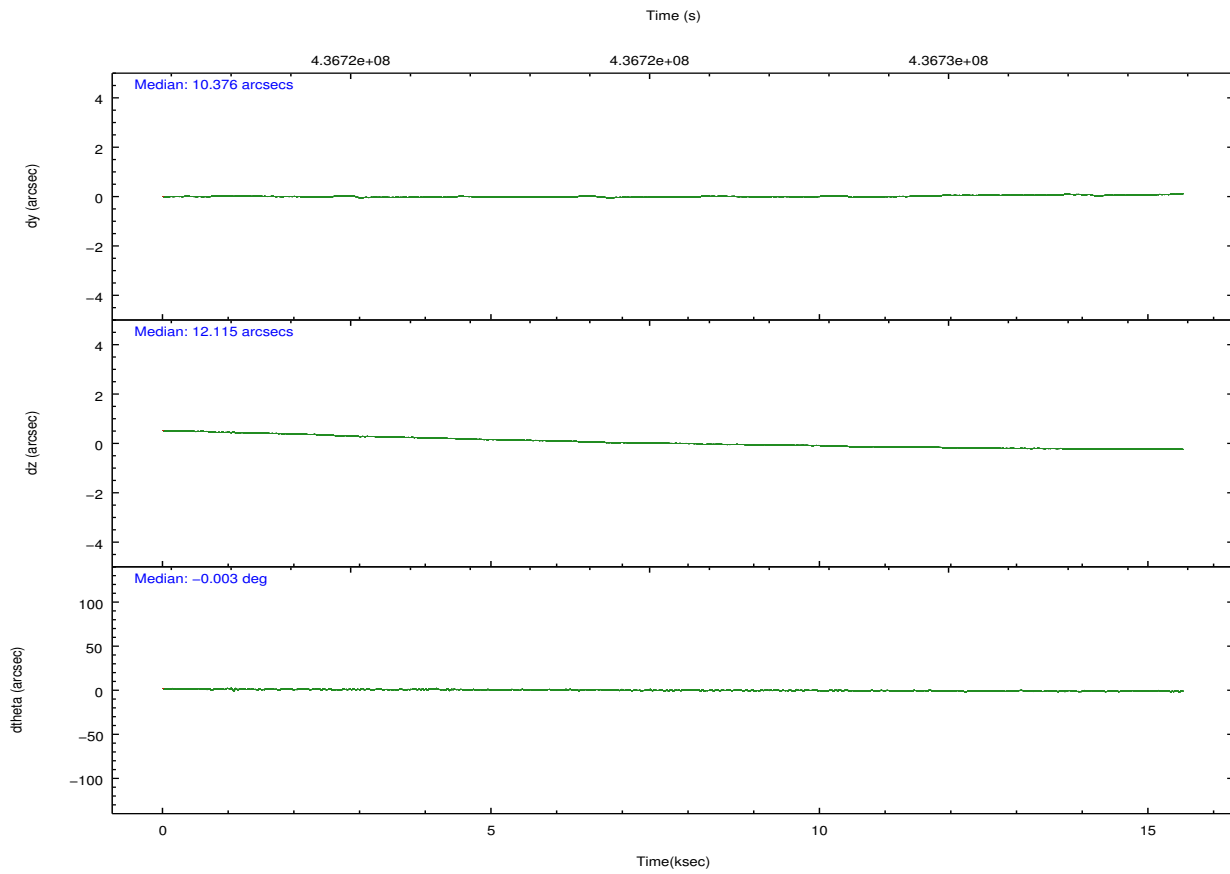
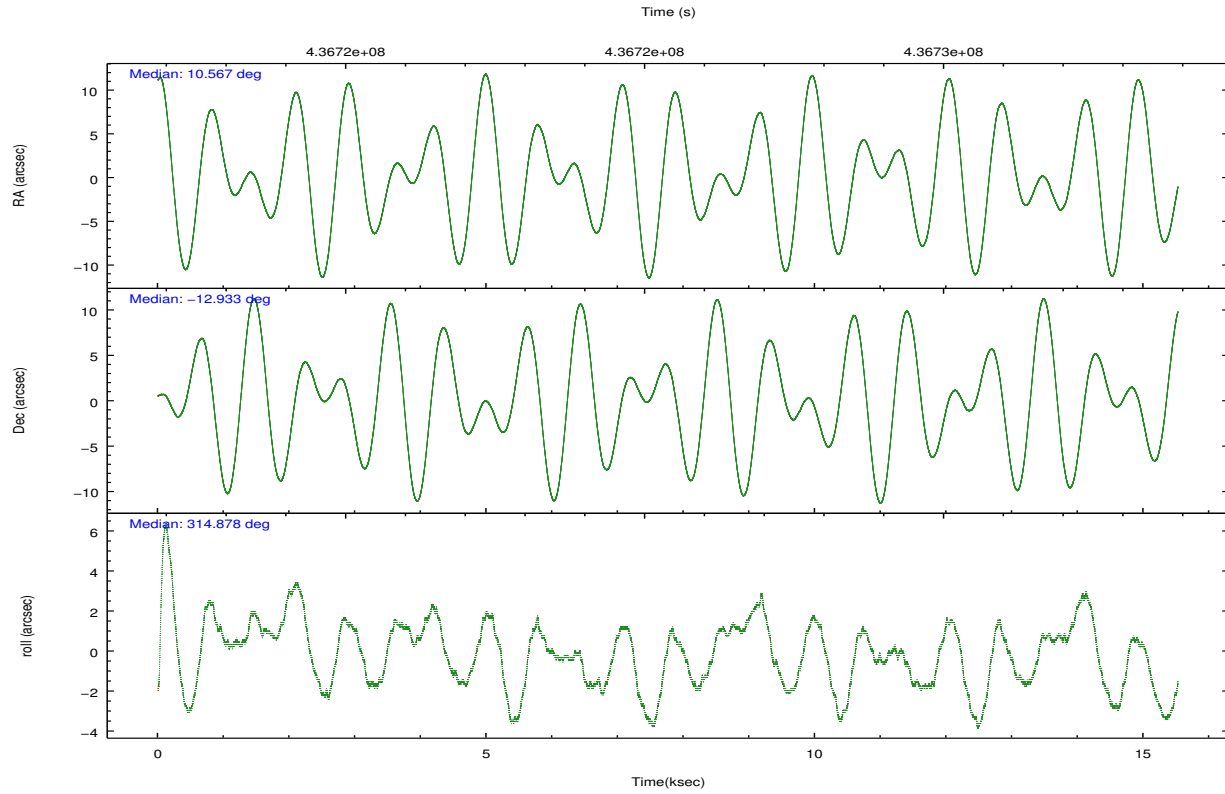
	ccd 6	ccd 7	ccd 8
grade 0 events	3785	5061	8873
	4%	4%	7%
grade 1 events	56	163	91
	0%	0%	0%
grade 2 events	2359	10713	7578
	2%	9%	6%
grade 3 events	1084	4593	3288
	1%	3%	2%
grade 4 events	1162	4675	2988
	1%	3%	2%
grade 5 events	4487	12174	6372
	4%	10%	5%
grade 6 events	2409	27813	8553
	2%	23%	7%
grade 7 events	75692	52312	82133
	83%	44%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	10.540436	10.56761254671813	CCD I2 on	N	N
[deg] Pointing Dec	-12.926748	-12.93350982458631	CCD I3 on	N	N
[deg] Pointing Roll	314.723309	314.8860162613636	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	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	O2	Y
[s] Observation start time (MET)	436718165.184000	436717189.09223	CCD S5 on	N	N
Observation start date	2011-11-03T14:34:59	2011-11-03T14:19:49	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	436733165.184000	436734196.91813	On-chip summing requested	N	N
Observation end date	2011-11-03T18:44:59	2011-11-03T19:03:16	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



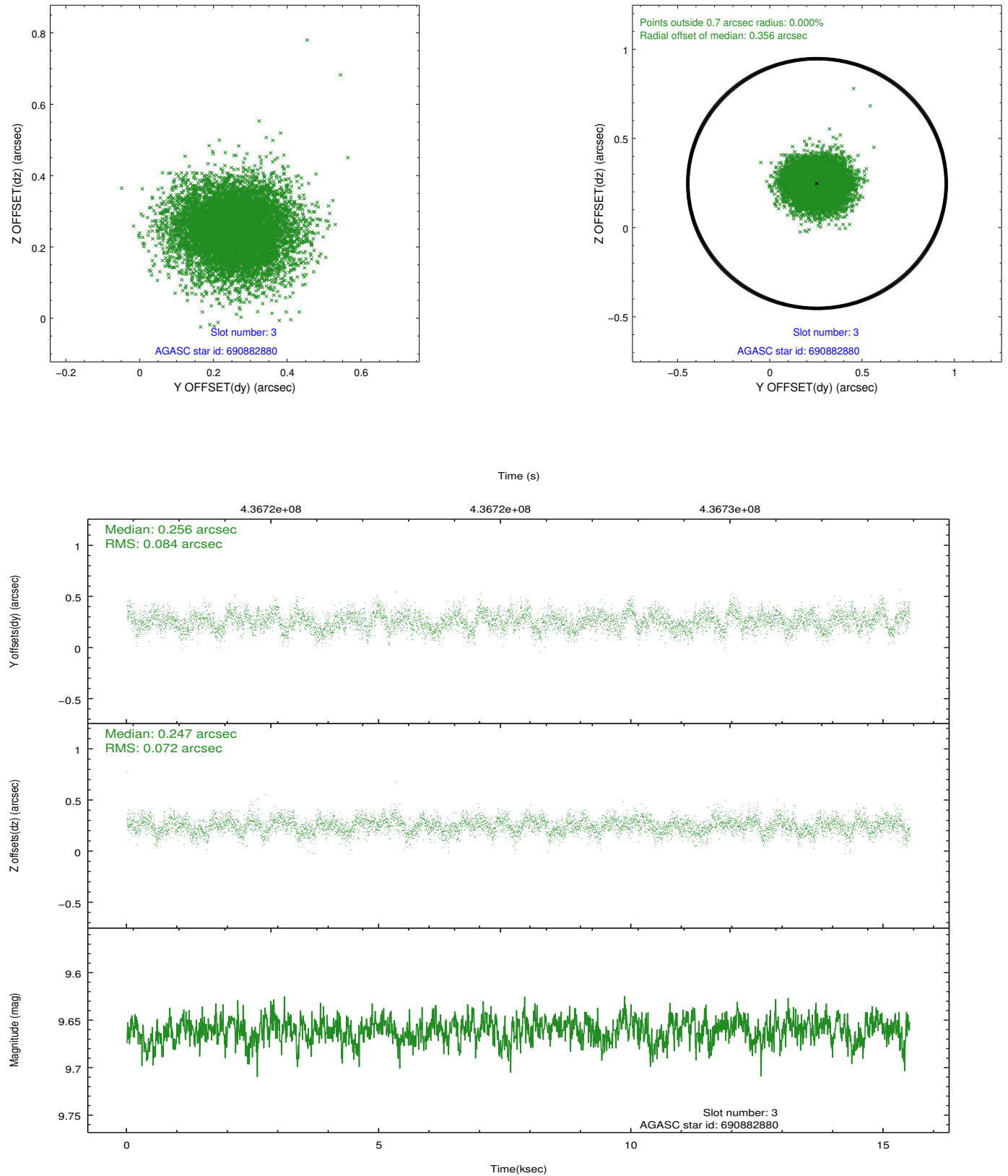


Slot Statistics

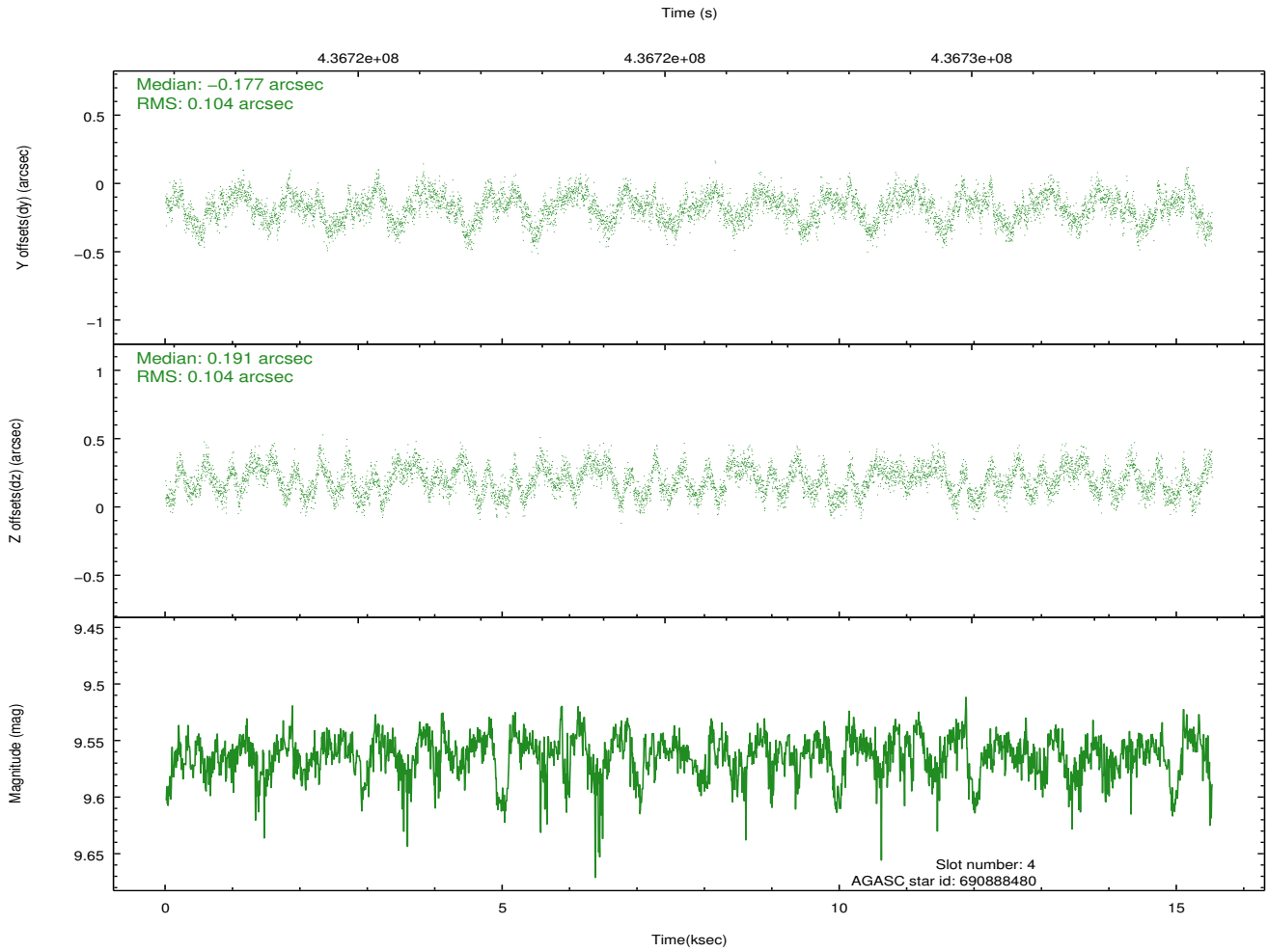
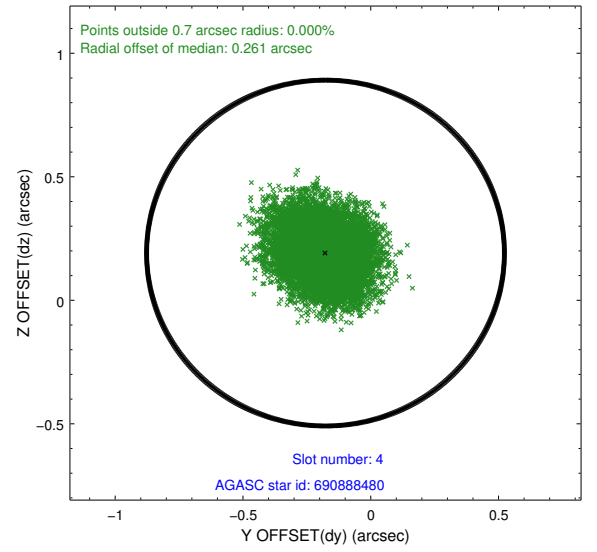
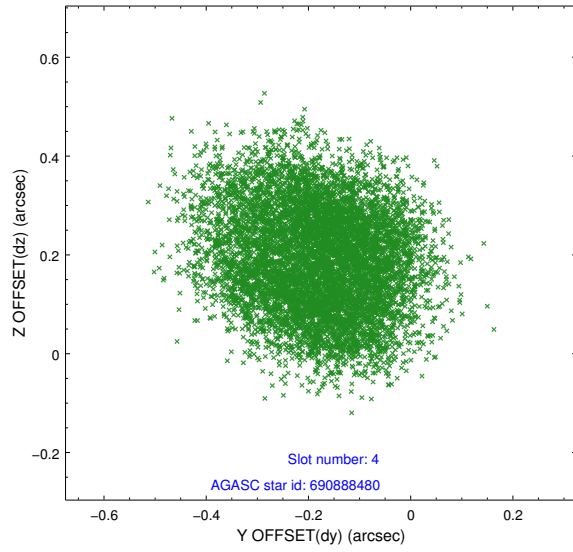
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.95	3787	-0.055	-0.035	0.009	0.015	0.000000	0.000000	-763.31	-1733.43
1	FID	ACIS-S-4	7.02	3787	0.199	0.036	0.005	0.010	0.000000	0.000000	2150.12	174.77
2	FID	ACIS-S-5	7.06	3786	-0.175	0.007	0.009	0.016	0.000000	0.000000	-1815.88	168.81
3	GUIDE	690882880	9.66	7556	0.256	0.247	0.117	0.191	11.405291	-13.024741	2389.25	1904.29
4	GUIDE	690888480	9.56	7566	-0.177	0.191	0.161	0.244	10.597081	-12.153942	-1835.52	2100.20
5	GUIDE	690890208	9.72	7561	0.299	-0.340	0.149	0.240	10.395645	-13.653111	1502.37	-2199.73
6	GUIDE	690894896	8.25	7570	-0.215	-0.016	0.094	0.146	9.984413	-13.079708	-978.68	-1774.68
7	GUIDE	690881000	8.71	7566	-0.152	-0.077	0.091	0.144	10.369276	-12.690399	-1027.25	171.49

2.4 Star Slots

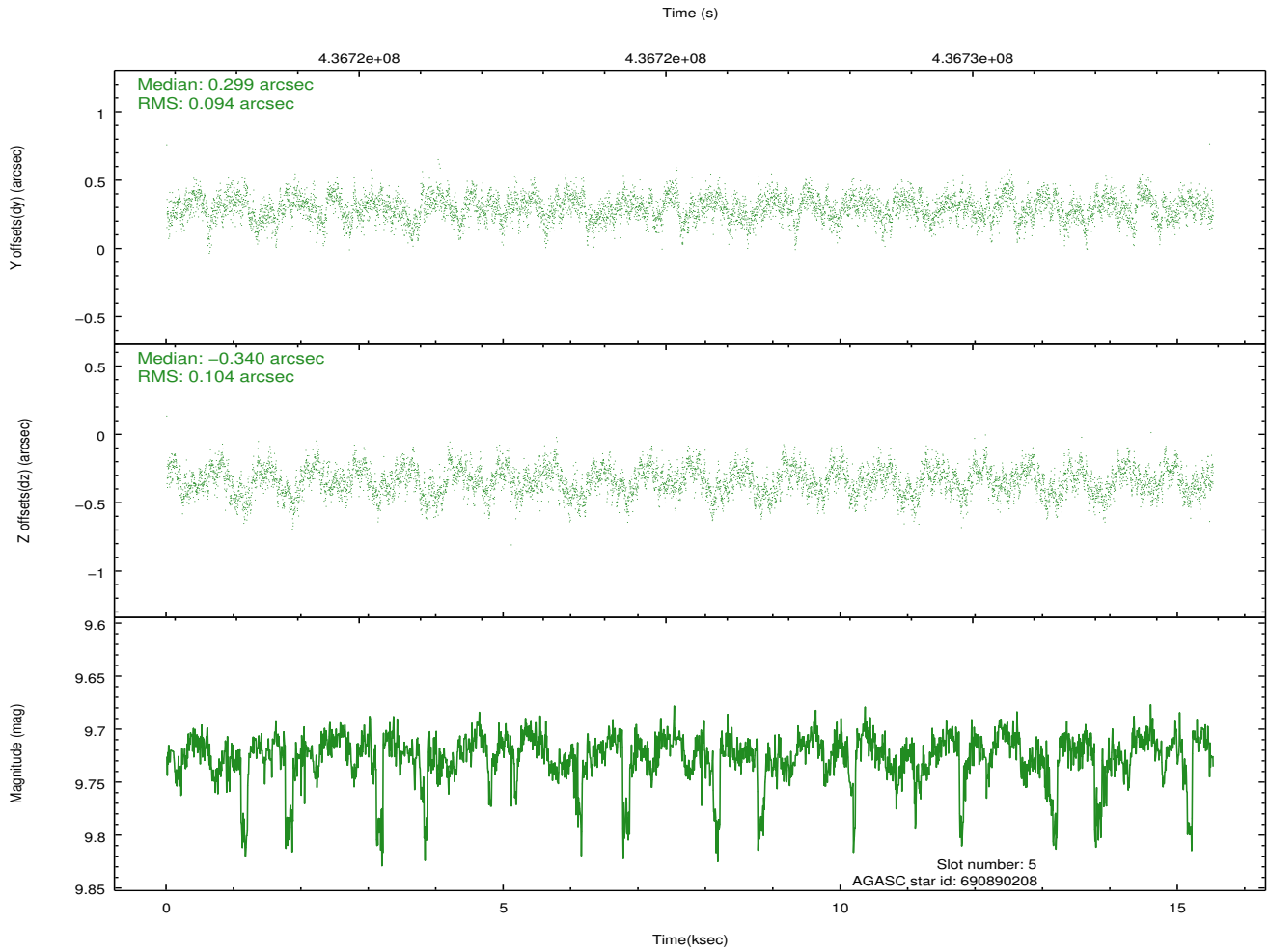
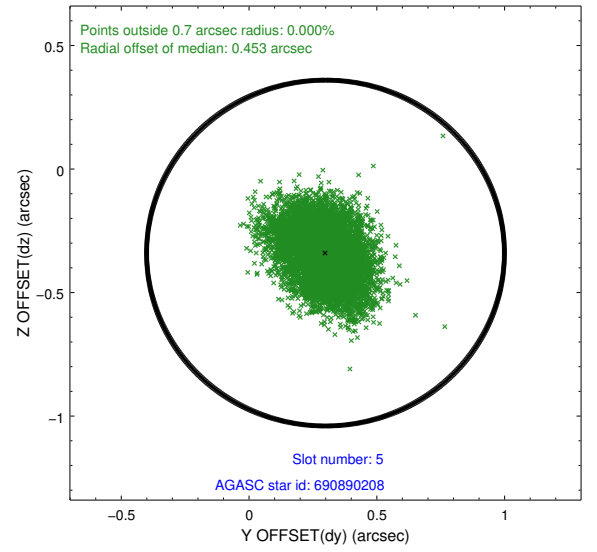
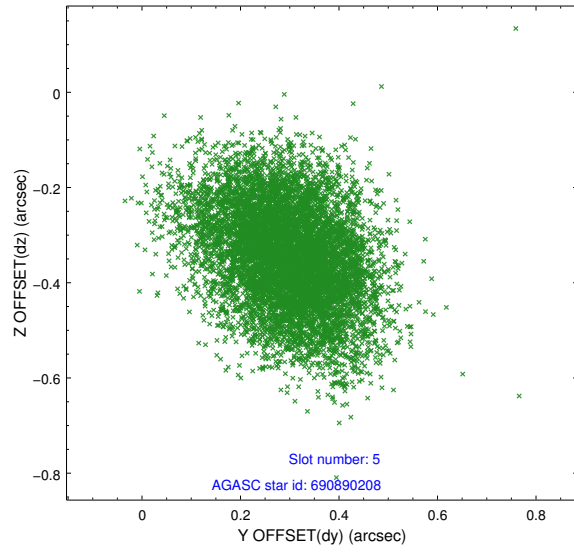
2.4.1 Slot 3



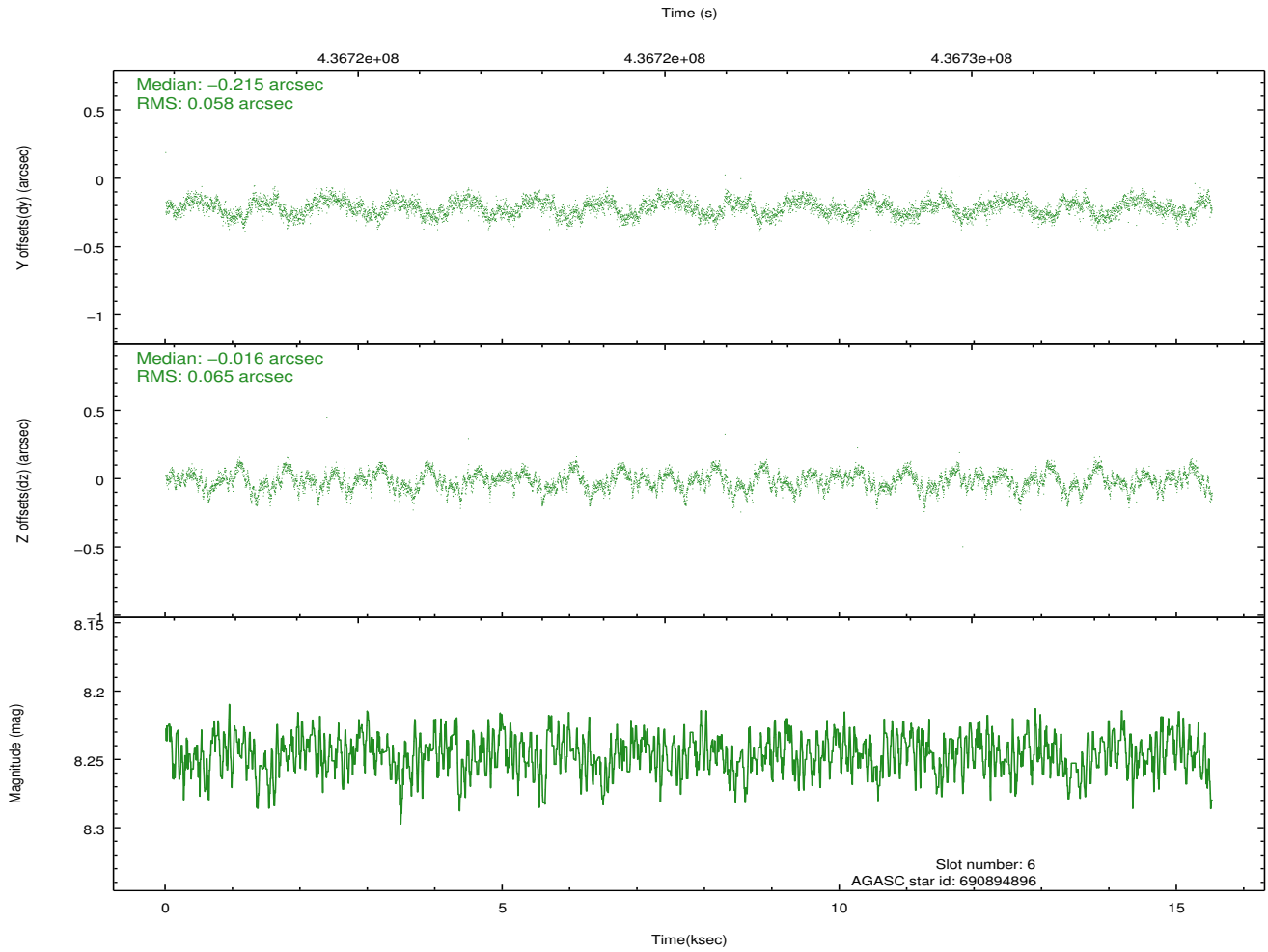
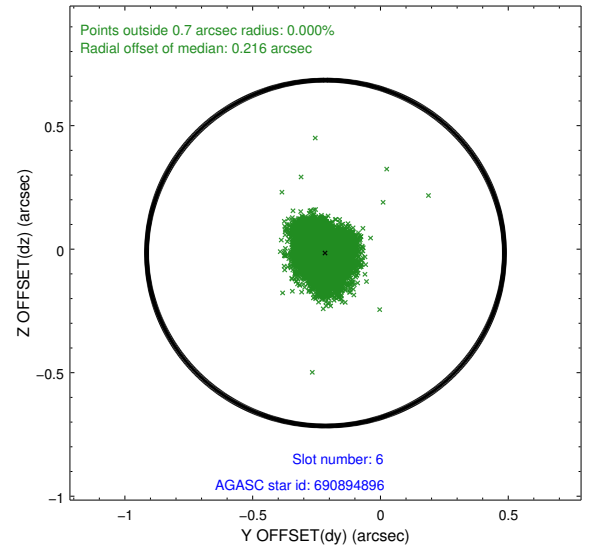
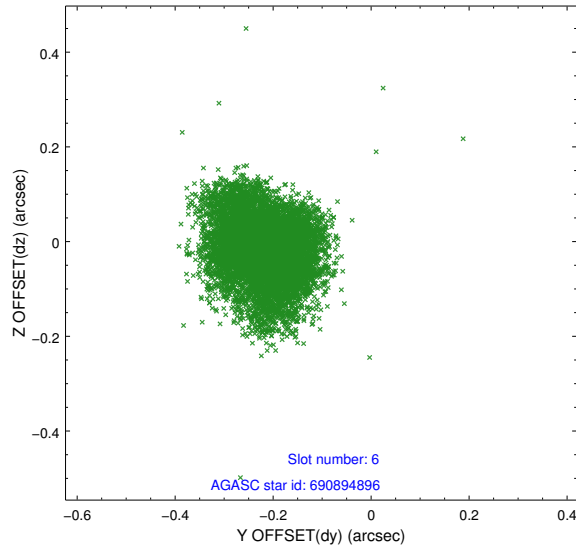
2.4.2 Slot 4



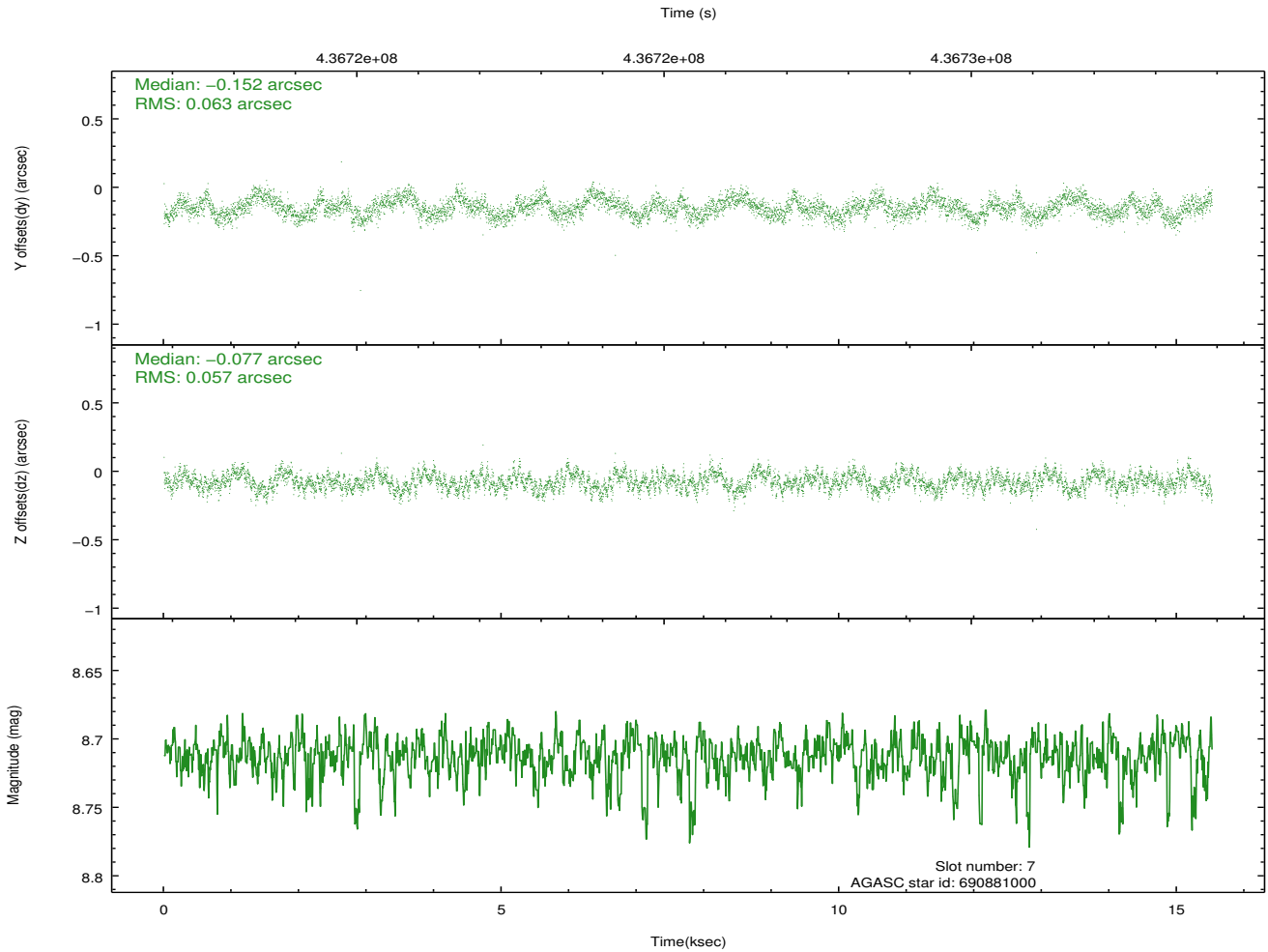
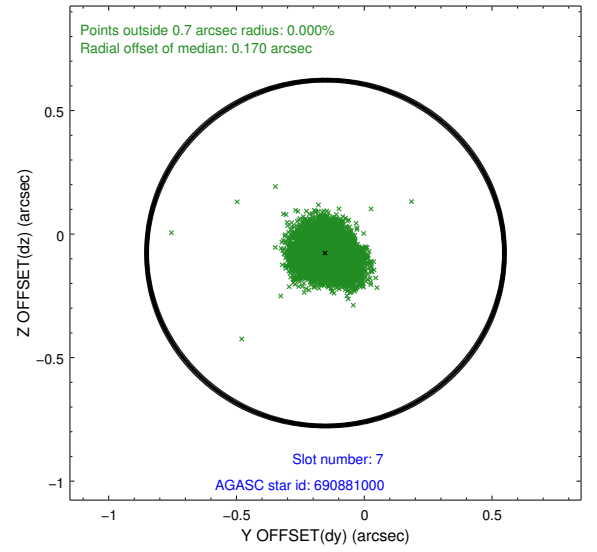
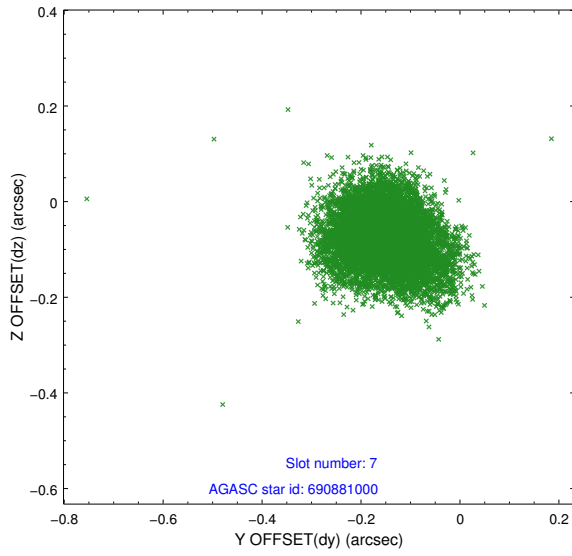
2.4.3 Slot 5



2.4.4 Slot 6

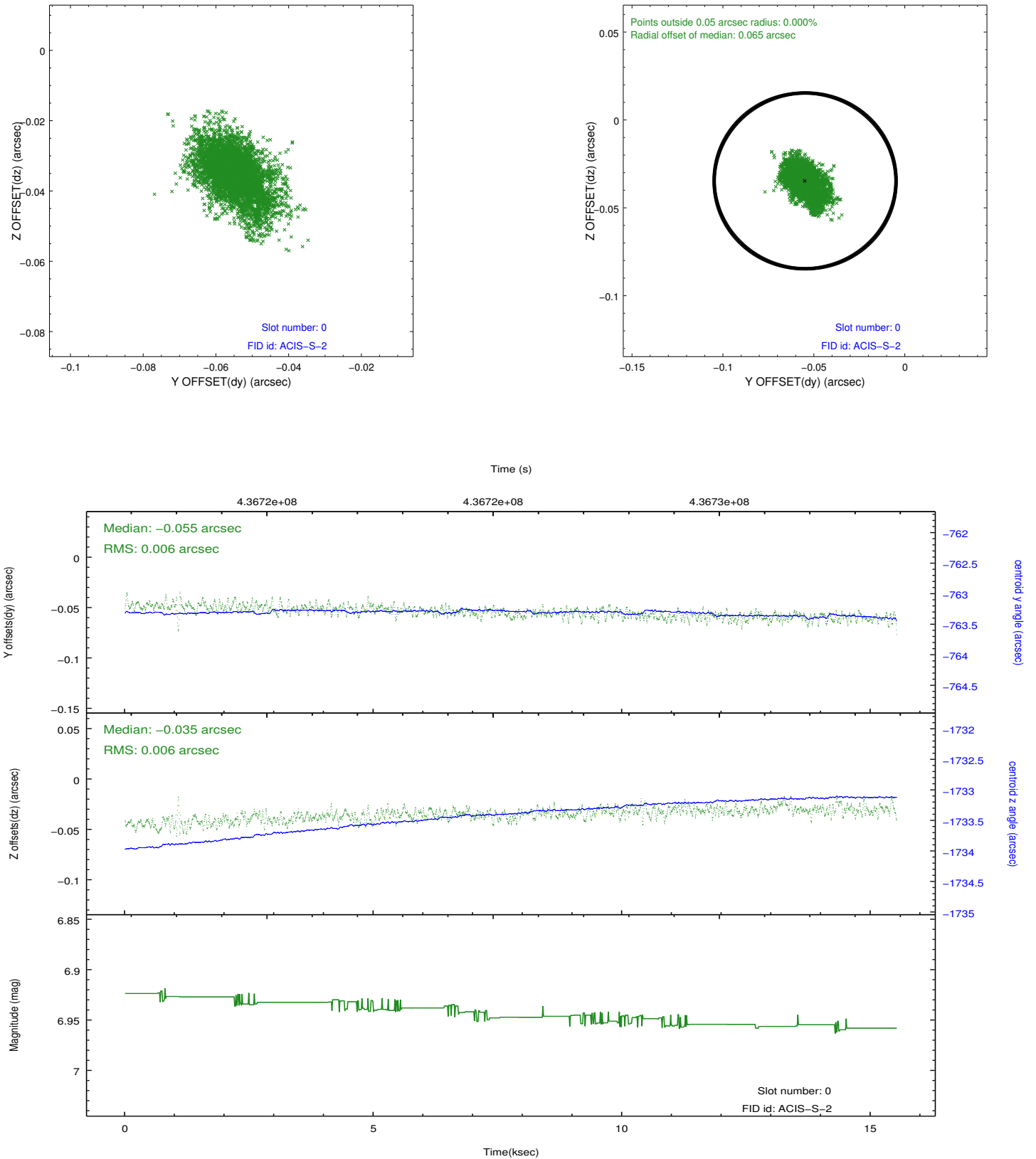


2.4.5 Slot 7

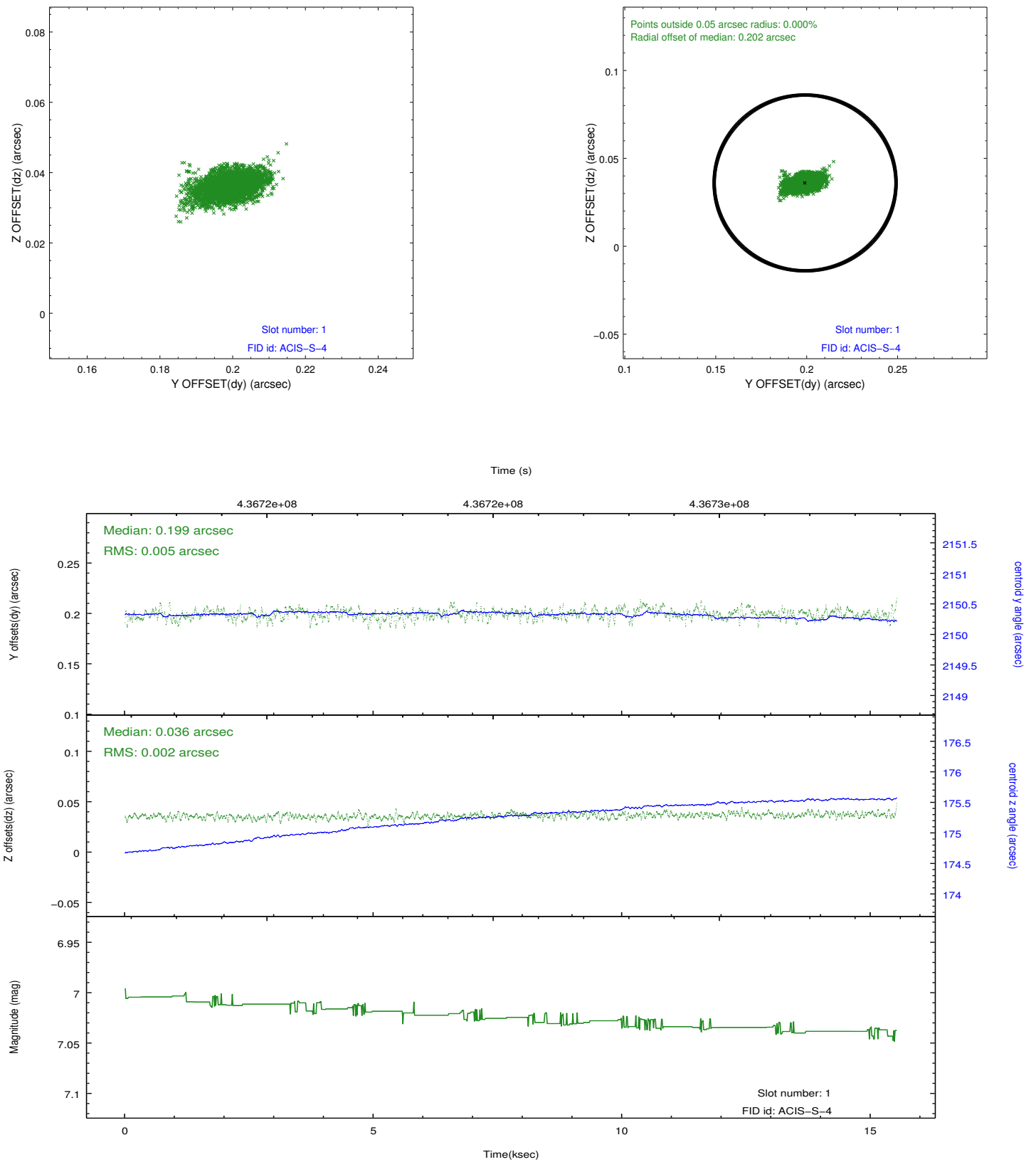


2.5 FID Slots

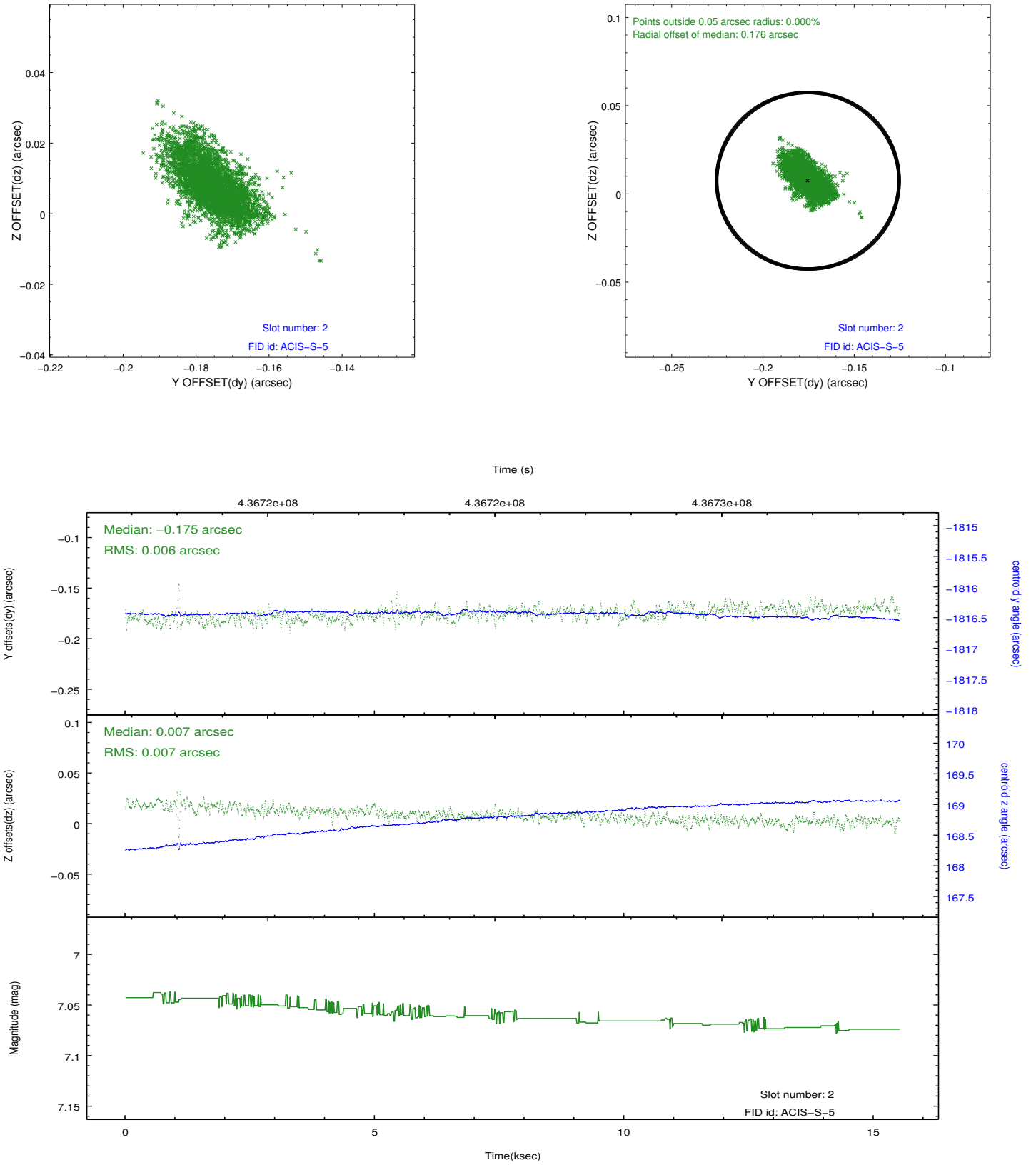
2.5.1 Slot 0



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)	2012.02.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.059800115824

A.2 Comments

A spatial region of the original bias map for CCD = 6 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 = 6 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:
(10.63912,-13.05208),(10.61765,-13.03112),(10.59752,-13.05069),(10.61899,-13.07165)