

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4866 - L2 Version 3
Chandra X-Ray Center

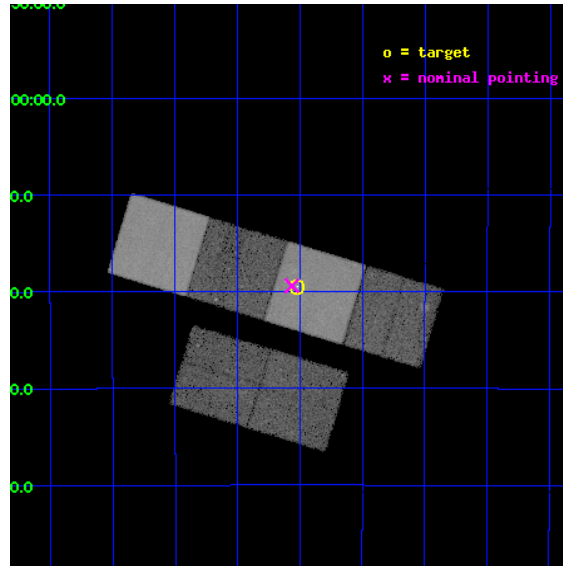
L2 Processing Date : Nov 9 2012

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

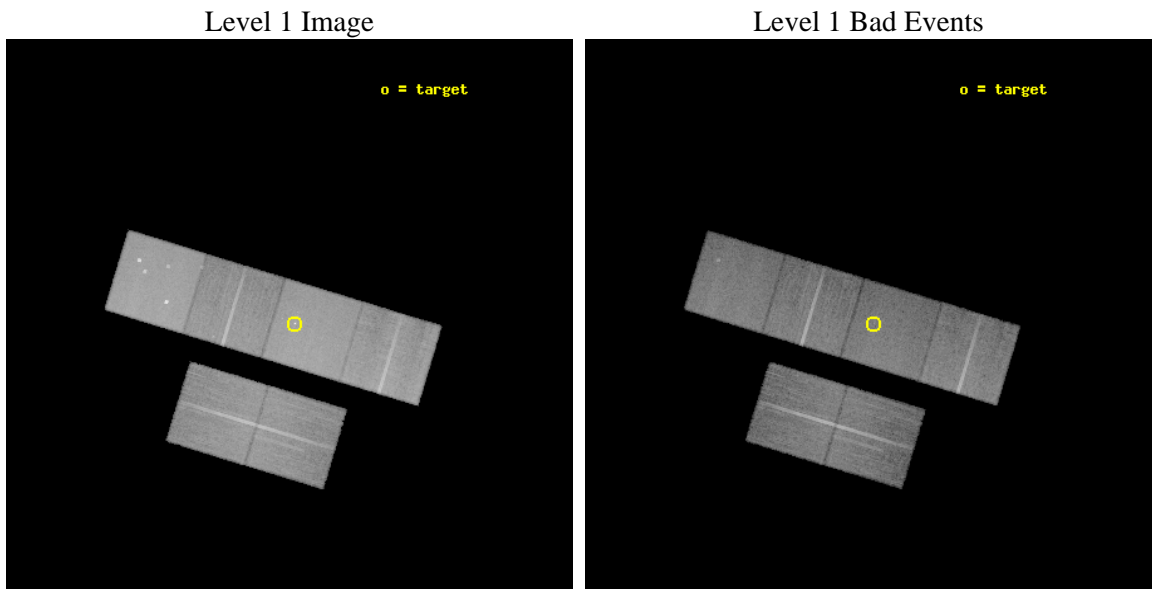
seq_num	700948	Sequence number
obs_id	4866	Observation id
title	Probing Obscured AGN with X-ray Iron Lines	Proposal title
observer	Dr. Nancy Levenson	Principal investigator
object	ESO 428-G014	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	109.13	Observer's specified target RA [deg]
dec_targ	-29.324722	Observer's specified target Dec [deg]
ra_nom	109.14102045809	Nominal RA [deg]
dec_nom	-29.323565217432	Nominal Dec [deg]
roll_nom	16.834418089302	Nominal Roll [deg]
revision	3	Processing version of data
ontime	30159.999887645	Sum of GTIs [s]
livetime	29778.095808896	Livetime [s]
ontime2	30159.999887645	Sum of GTIs [s]
ontime3	30159.999887645	Sum of GTIs [s]
ontime5	30159.999887645	Sum of GTIs [s]
ontime6	30159.999887645	Sum of GTIs [s]
ontime7	30159.999887645	Sum of GTIs [s]
ontime8	30156.758907378	Sum of GTIs [s]
l2events	298632	Number of level 2 events



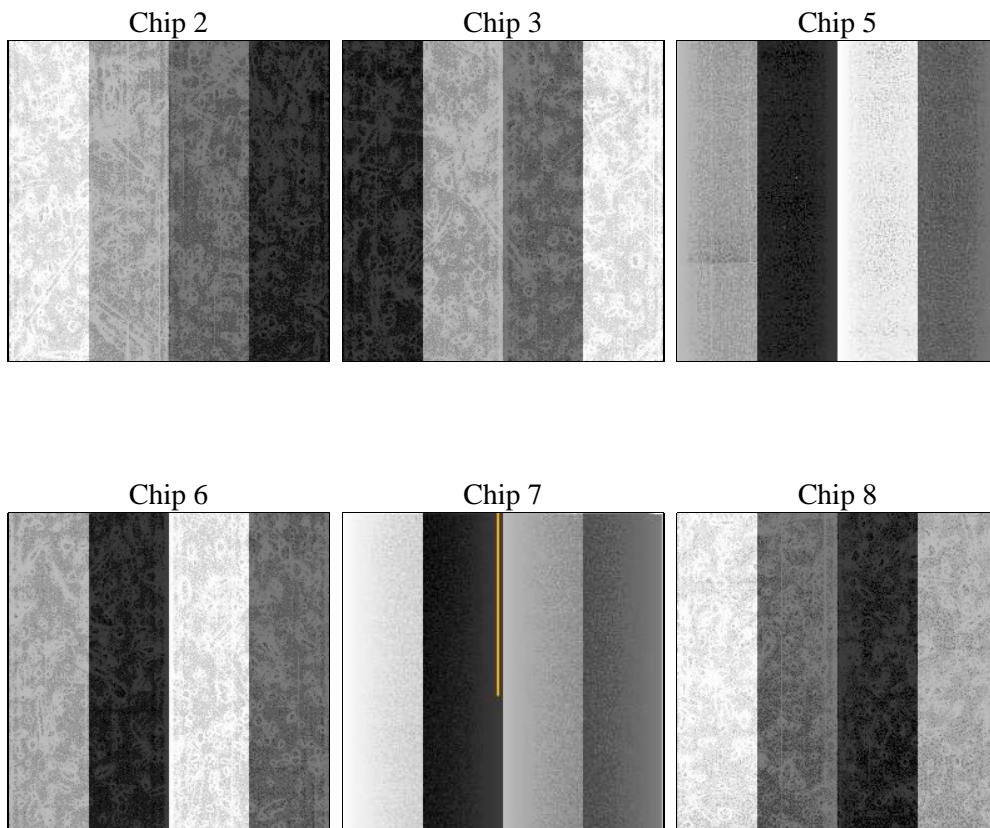
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	30159.999887645	Sum of GTIs [s]
caldsver	4.5.2	 	ontime2	30159.999887645	Sum of GTIs [s]
date	2012-11-09T15:16:19	Date and time of file creation	ontime3	30159.999887645	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	30159.999887645	Sum of GTIs [s]
			ontime6	30159.999887645	Sum of GTIs [s]
			ontime7	30159.999887645	Sum of GTIs [s]
			ontime8	30156.758907378	Sum of GTIs [s]
			l1events	1309644	Number of level 1 events

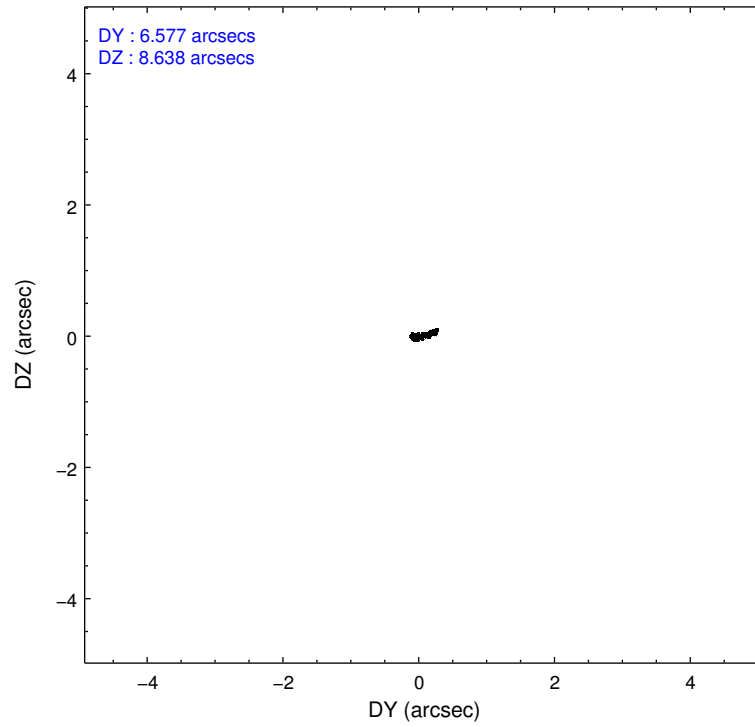
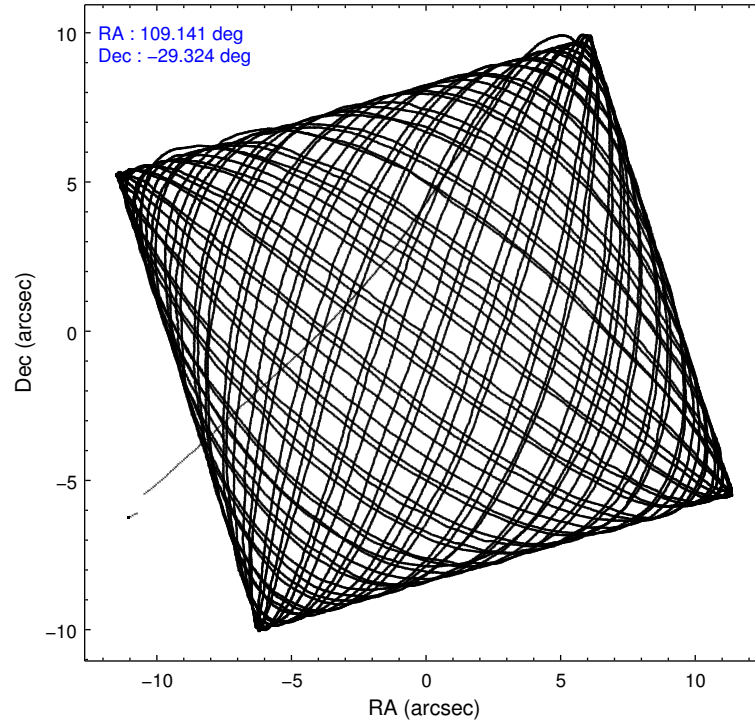
2.1.4 Events

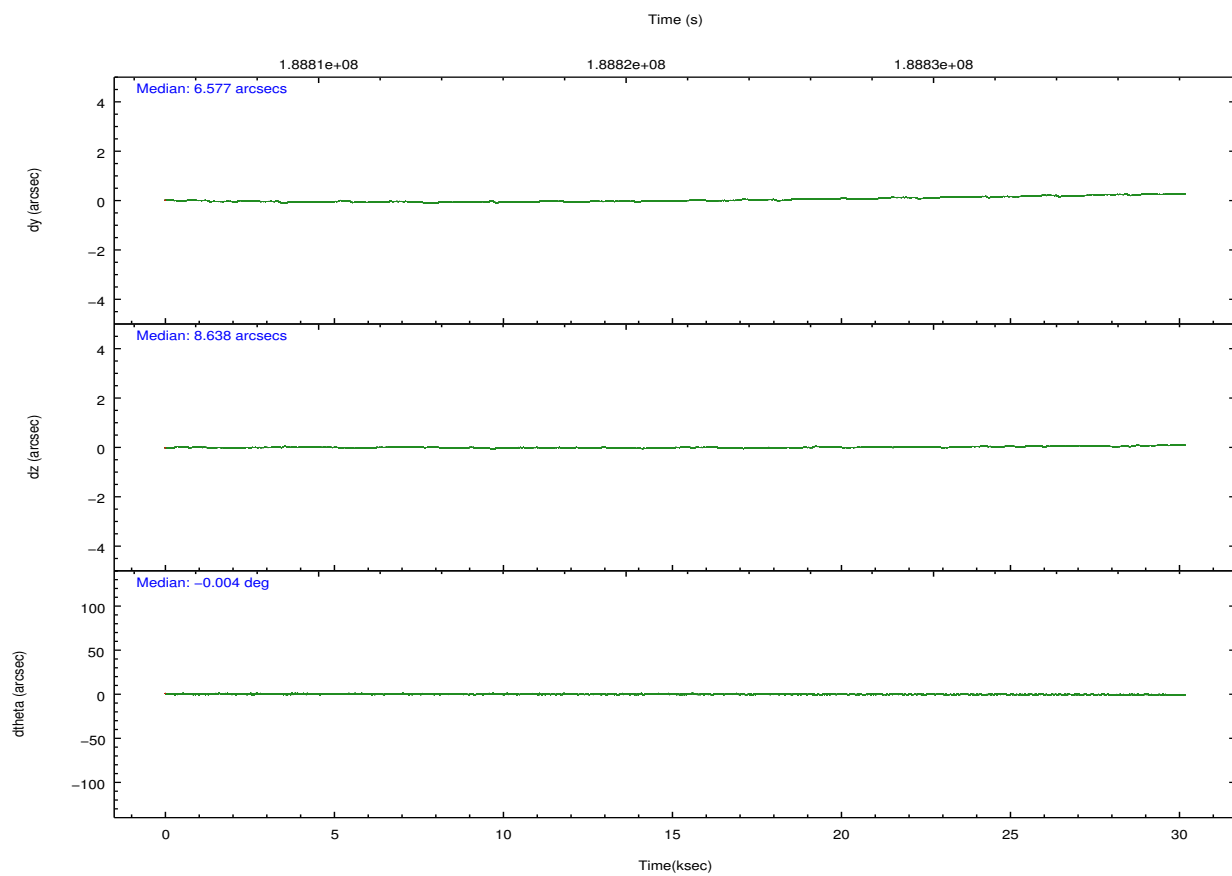
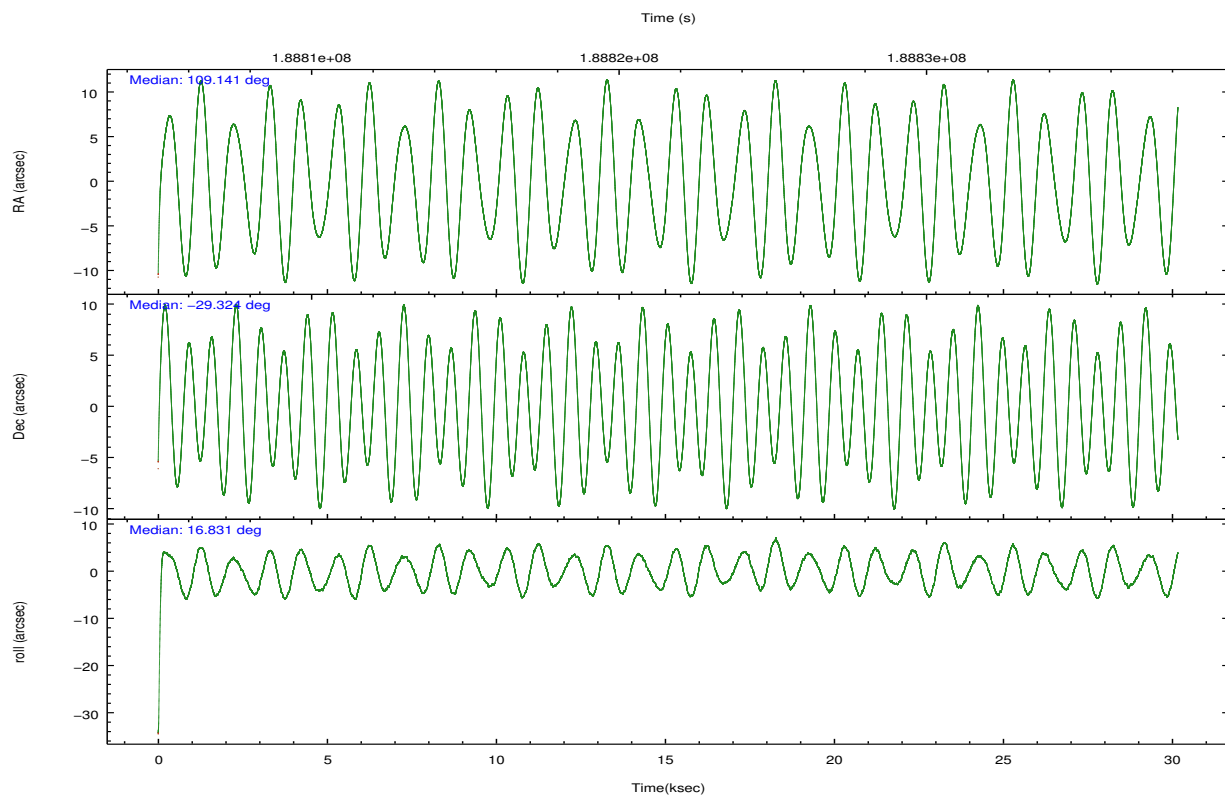
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	184247	174125	282503	184404	253254	231111	grade 0 events	9496	9193	17590	8951	10063	15445
rejected events	162817	152834	152918	162178	147362	182722		5%	5%	6%	4%	3%	6%
rejected %	88%	87%	54%	87%	58%	79%	grade 1 events	108	99	668	89	232	146
								0%	0%	0%	0%	0%	0%
							grade 2 events	4496	4138	36821	4482	21064	10486
								2%	2%	13%	2%	8%	4%
							grade 3 events	2034	2150	5002	2193	9484	5146
								1%	1%	1%	1%	3%	2%
							grade 4 events	2001	2081	4832	2177	9646	4838
								1%	1%	1%	1%	3%	2%
							grade 5 events	7687	8208	20433	8682	24142	11306
								4%	4%	7%	4%	9%	4%
							grade 6 events	3483	3800	65806	4517	56040	12678
								1%	2%	23%	2%	22%	5%
							grade 7 events	154942	144456	131351	153313	122583	171066
								84%	82%	46%	83%	48%	74%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	109.119959	109.1410204580946	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.343699	-29.32356521743235	Alternating exposures requested	N	N
[deg] Pointing Roll	16.667480	16.8344180893018	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	188806673.184000	188805561.65135			
Observation start date	2003-12-26T06:16:49	2003-12-26T05:59:21			
[s] Observation end time (MET)	188836673.184000	188837570.86524			
Observation end date	2003-12-26T14:36:49	2003-12-26T14:52:50			
Read mode	TIMED	TIMED			

2.3 Aspect



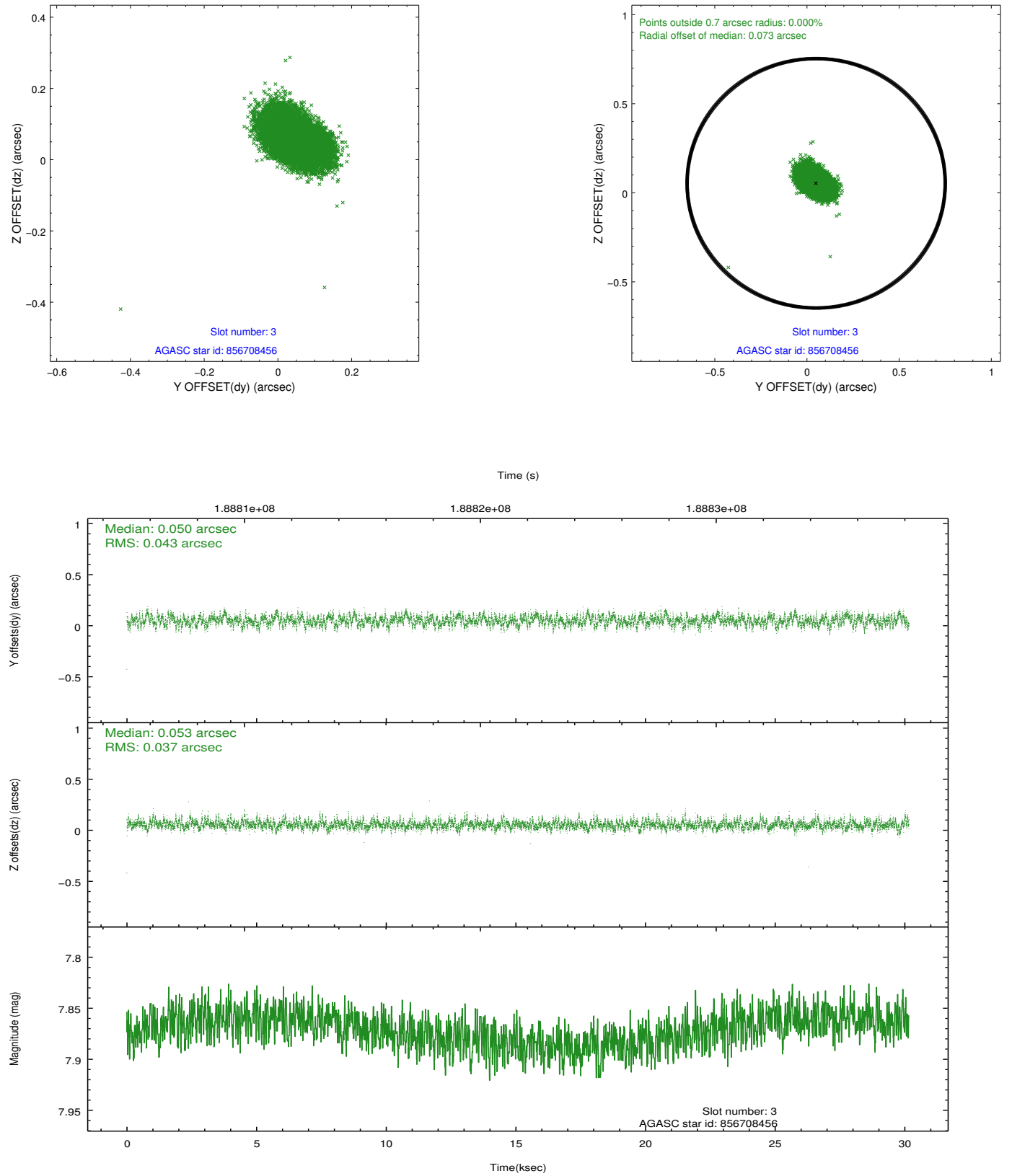


Slot Statistics

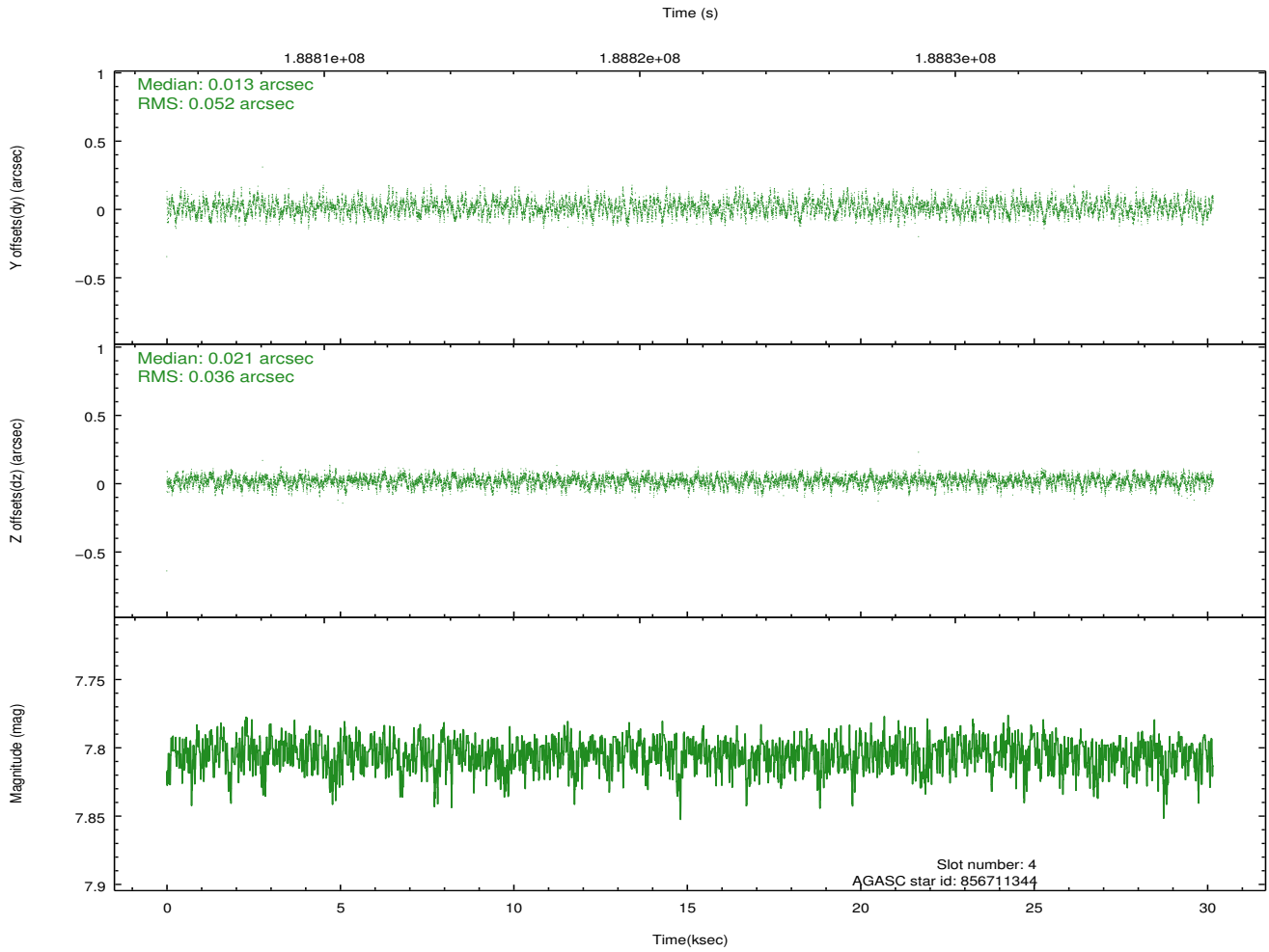
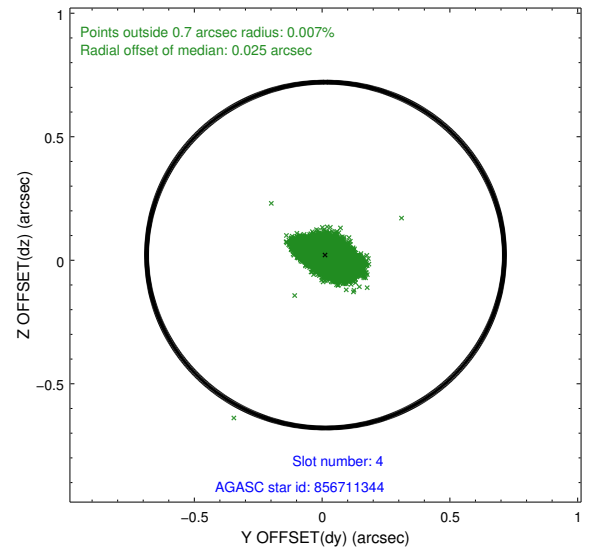
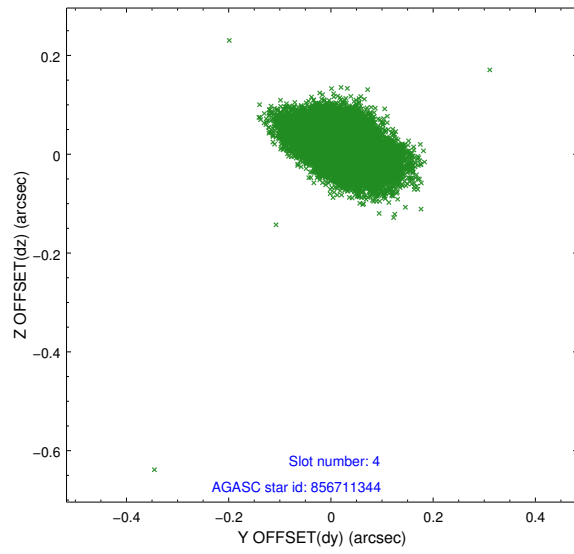
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	7358	-0.029	-0.046	0.007	0.011	0.000000	0.000000	-759.40	-1729.84
1	FID	ACIS-S-4	7.21	7359	0.071	0.026	0.006	0.011	0.000000	0.000000	2153.96	178.62
2	FID	ACIS-S-5	7.23	7358	-0.074	0.029	0.007	0.012	0.000000	0.000000	-1812.18	172.40
3	GUIDE	856708456	7.87	14715	0.050	0.053	0.059	0.099	108.729631	-28.964442	-786.67	1658.68
4	GUIDE	856711344	7.80	14710	0.013	0.021	0.067	0.112	108.365445	-29.182350	-2107.44	1229.44
5	GUIDE	858411376	7.96	14714	0.111	0.010	0.054	0.089	109.246716	-29.729864	-18.97	-1445.47
6	GUIDE	858418208	7.52	14717	0.051	-0.086	0.059	0.091	109.343308	-29.131112	892.34	530.99
7	GUIDE	858404864	7.13	14715	-0.227	0.003	0.046	0.074	109.796983	-29.013141	2381.41	522.95

2.4 Star Slots

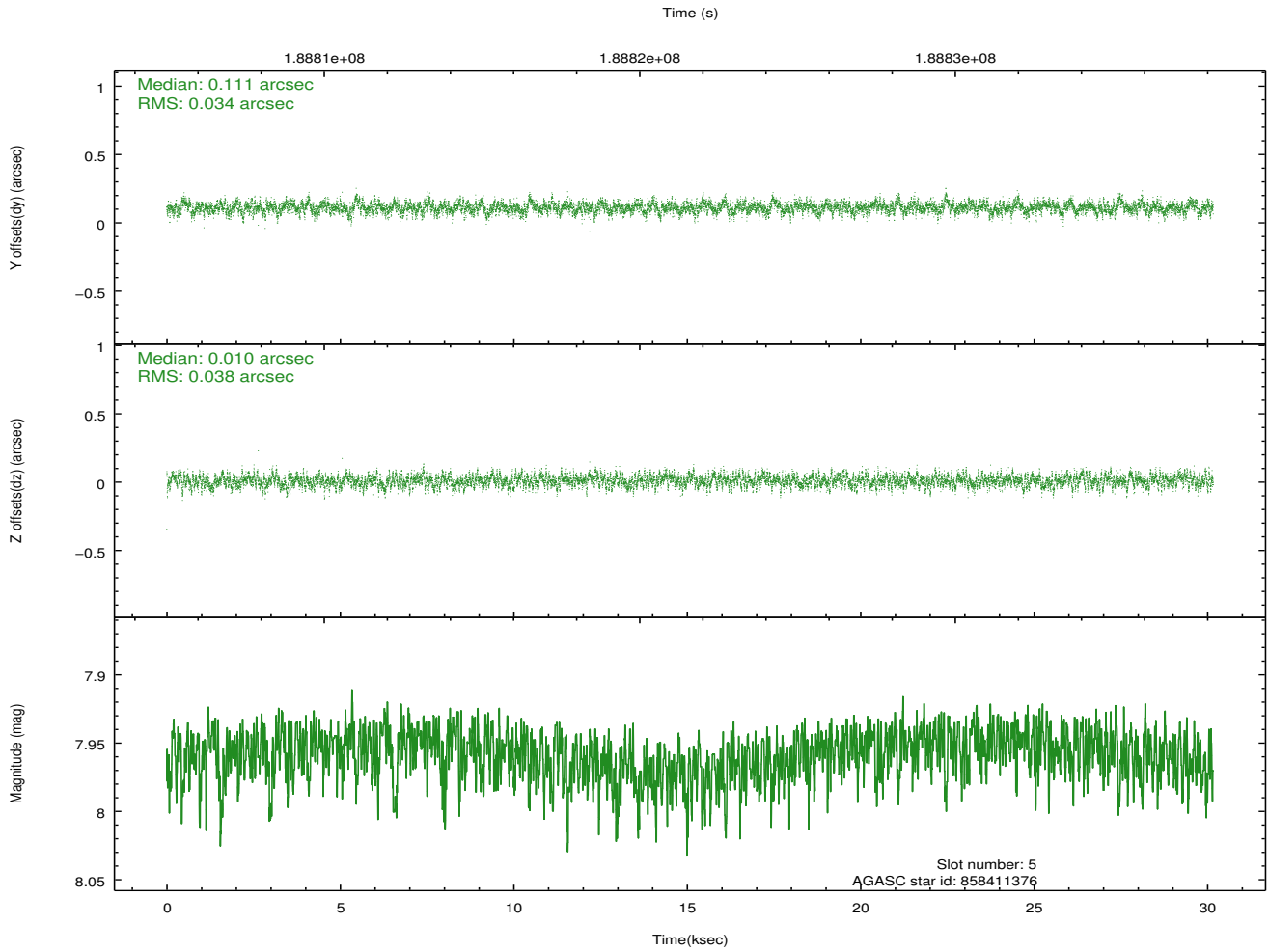
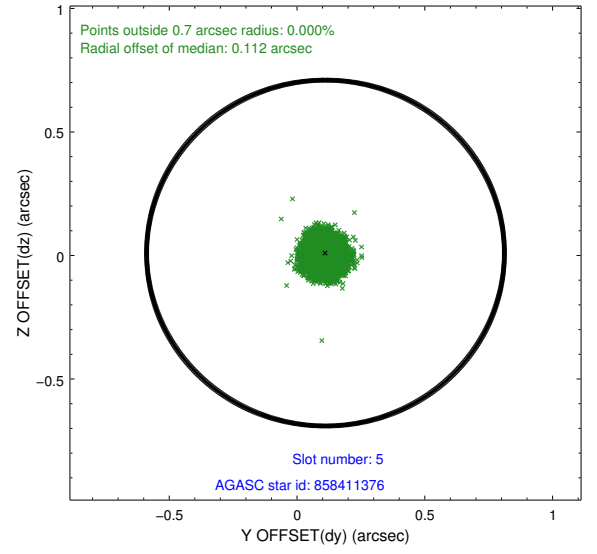
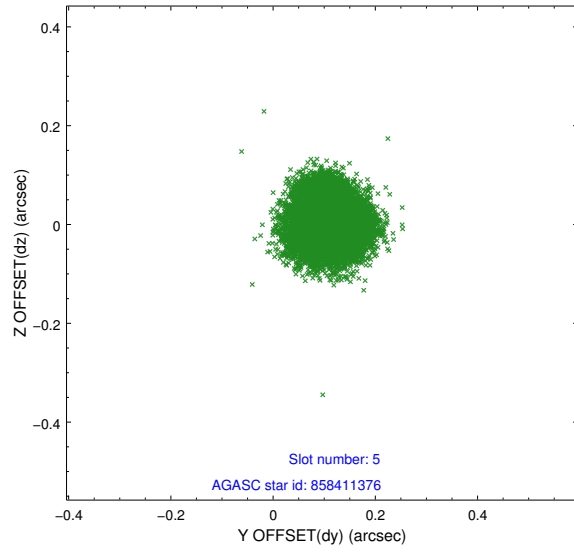
2.4.1 Slot 3



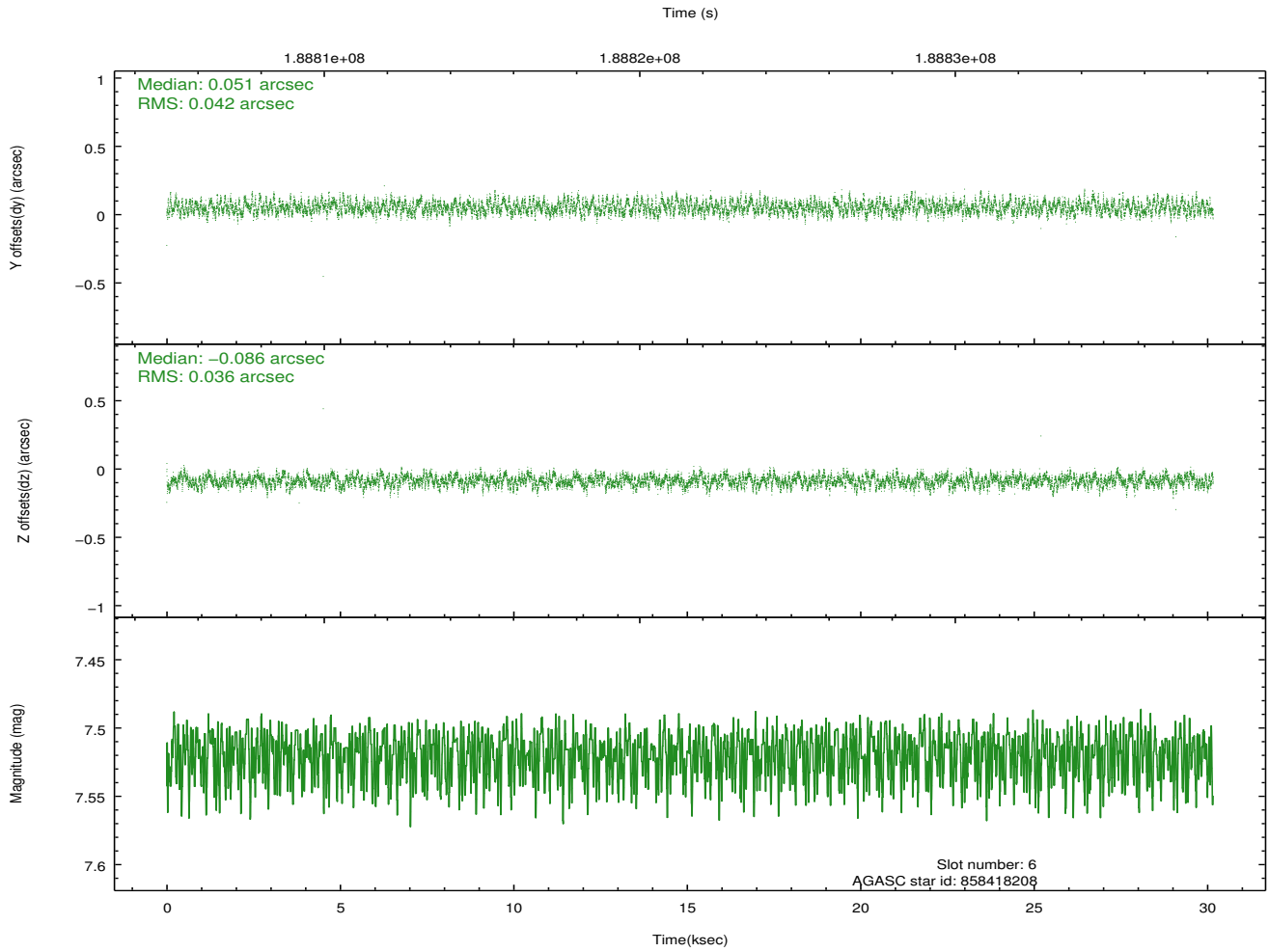
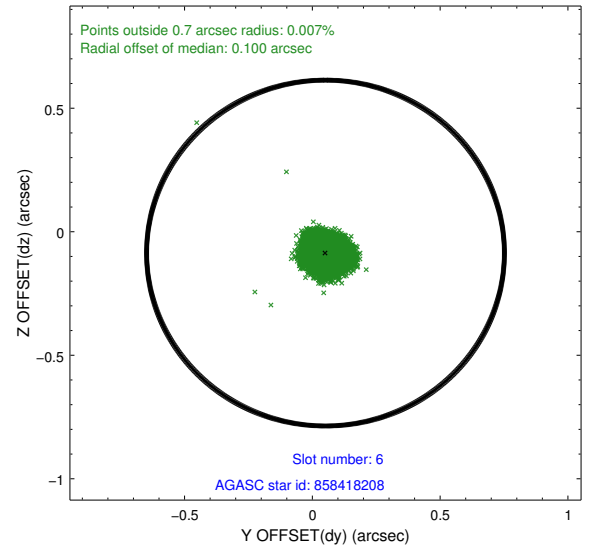
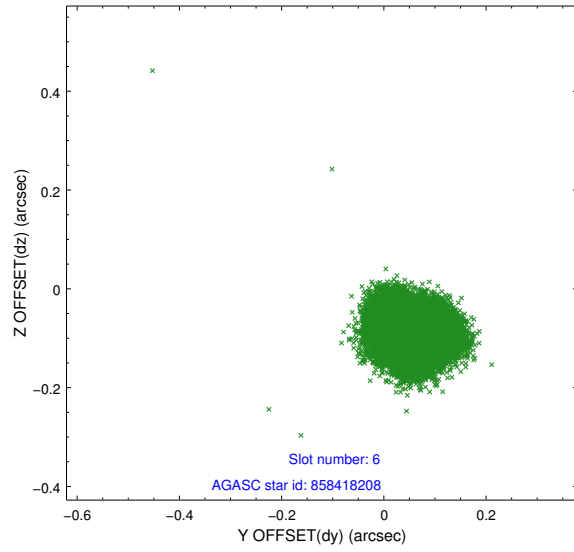
2.4.2 Slot 4



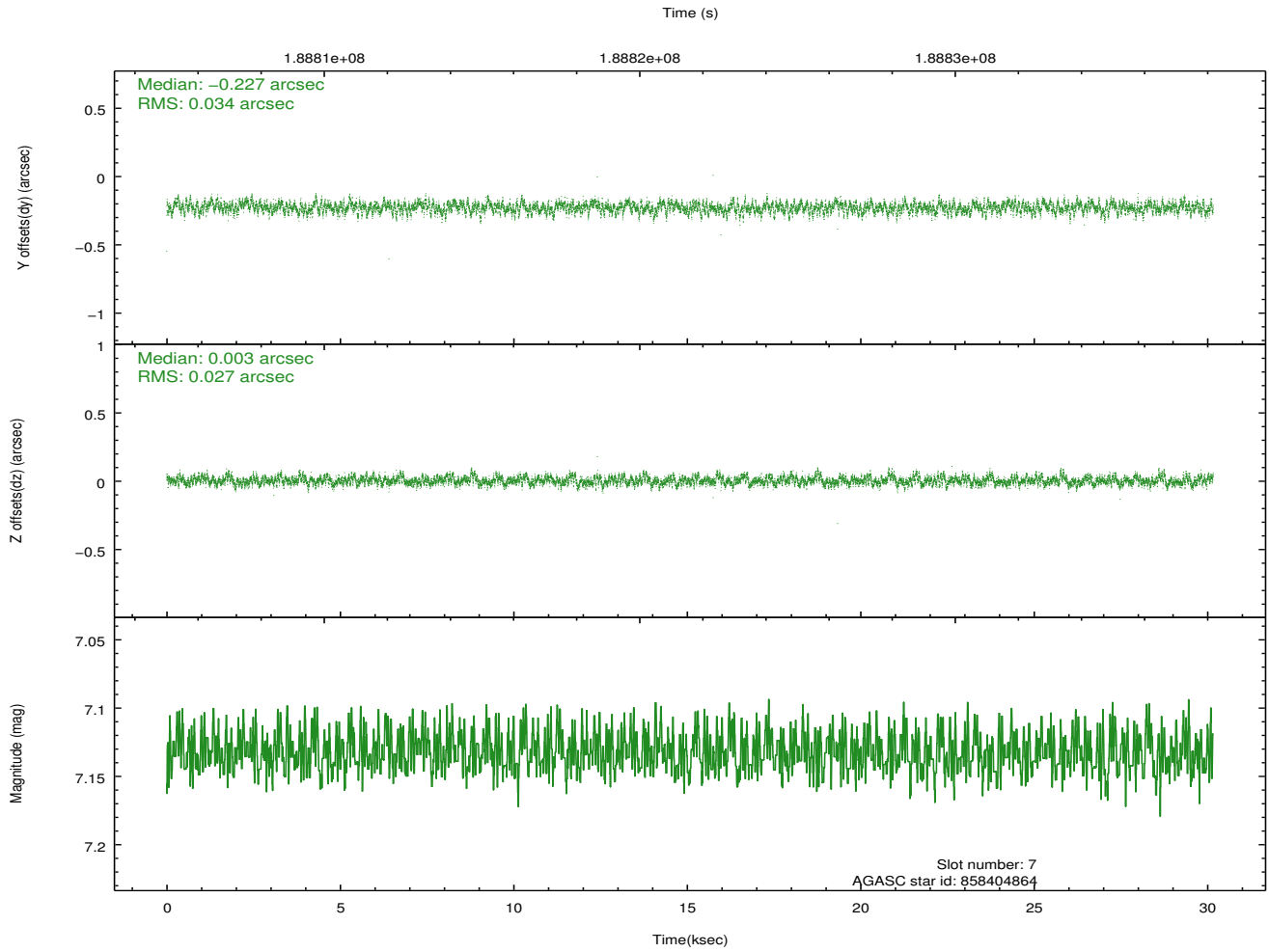
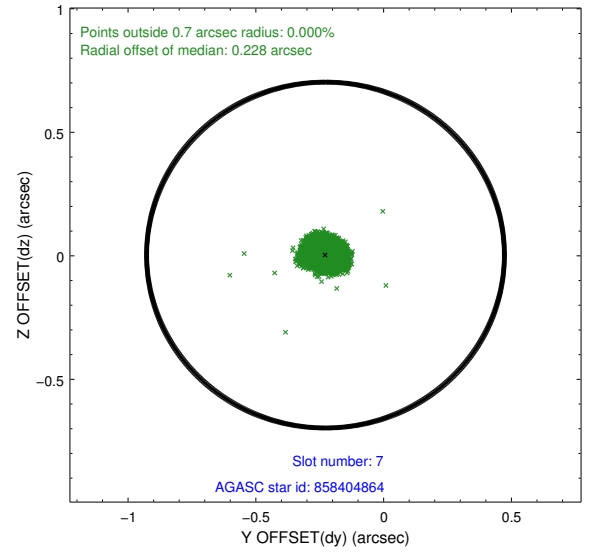
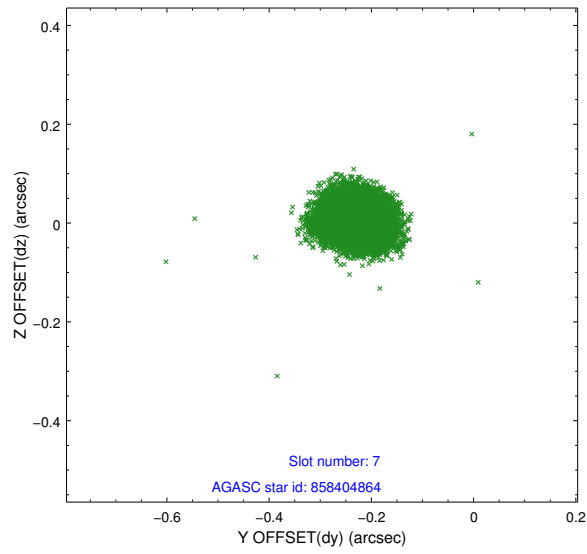
2.4.3 Slot 5



2.4.4 Slot 6

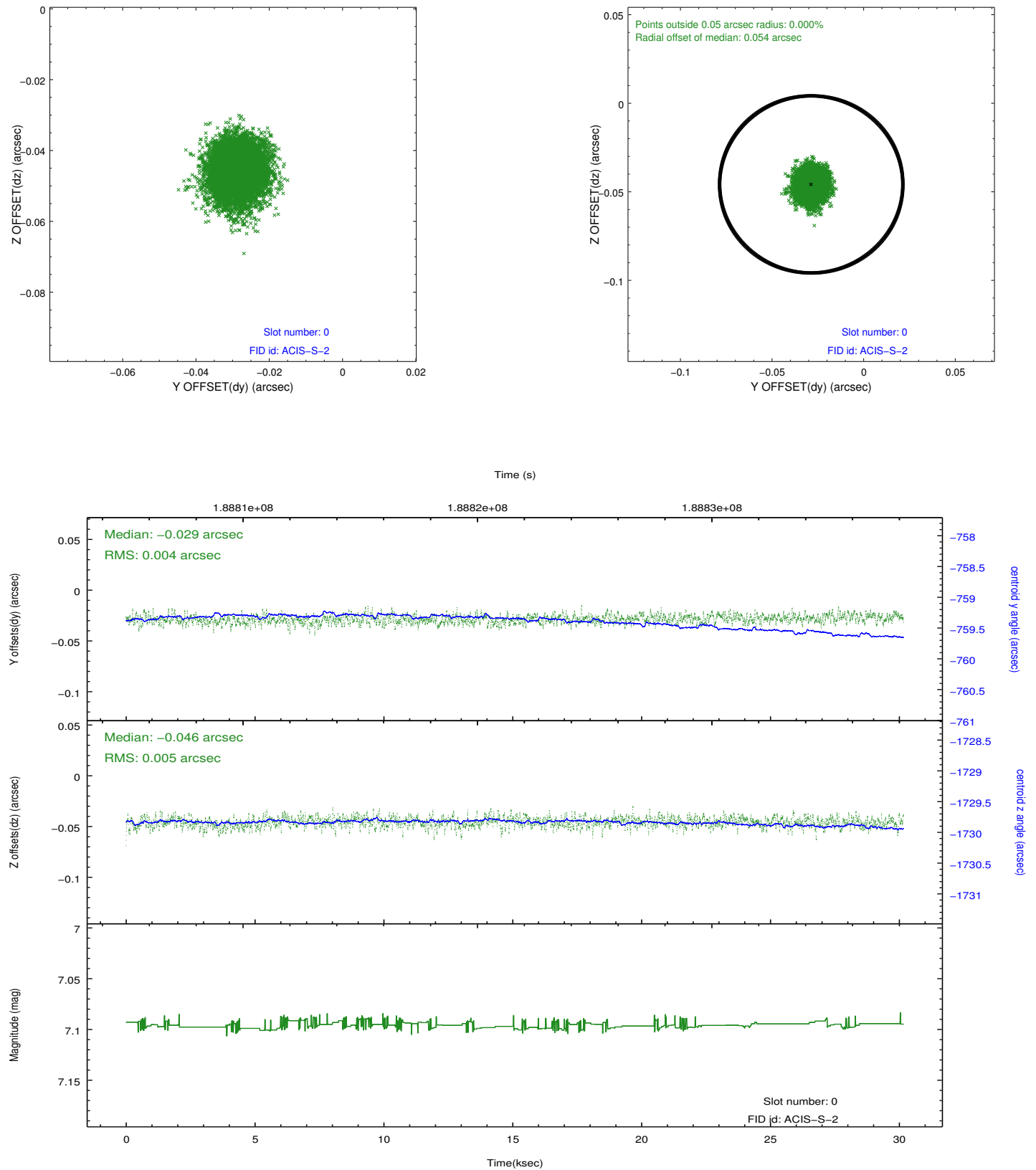


2.4.5 Slot 7

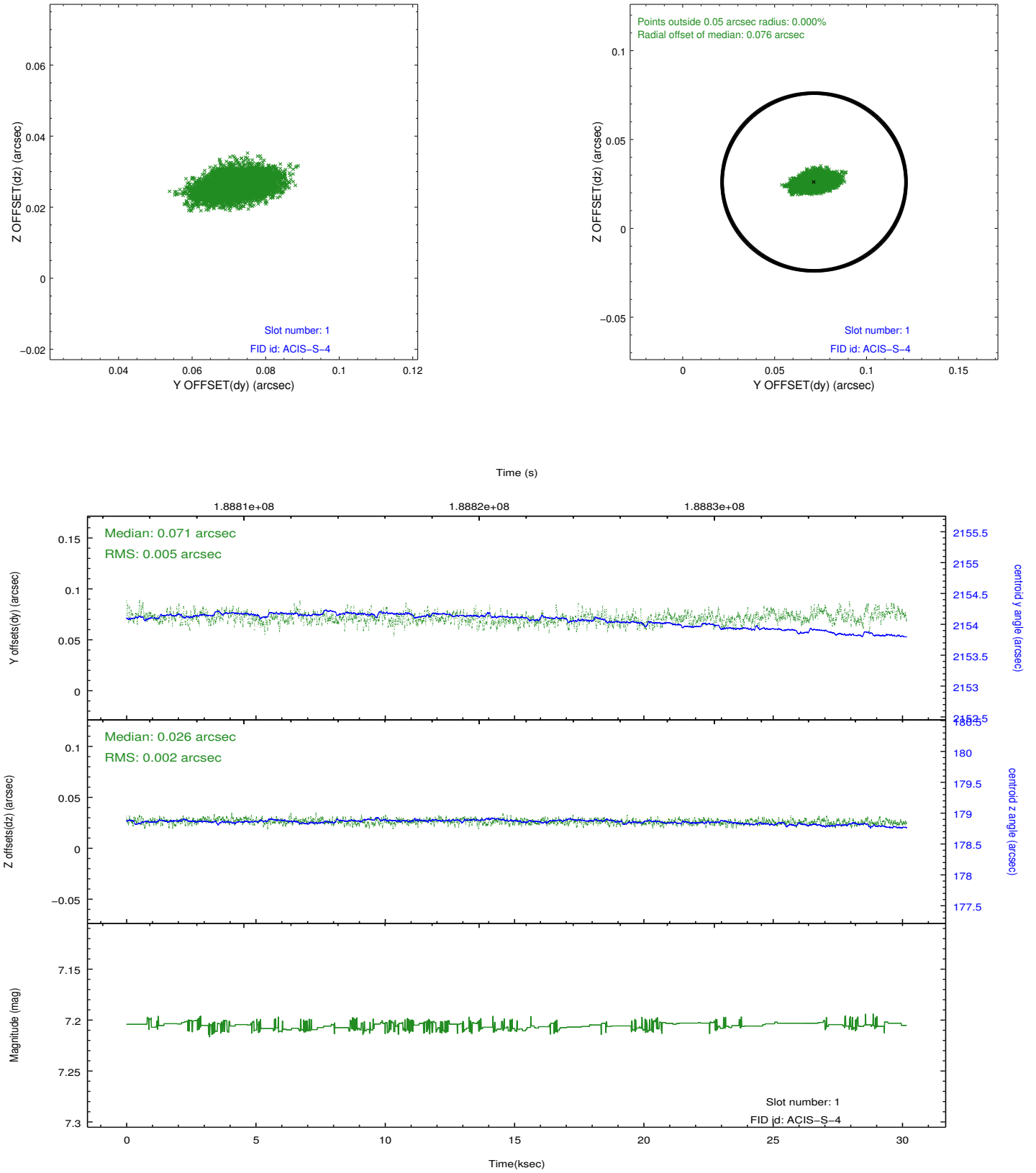


2.5 FID Slots

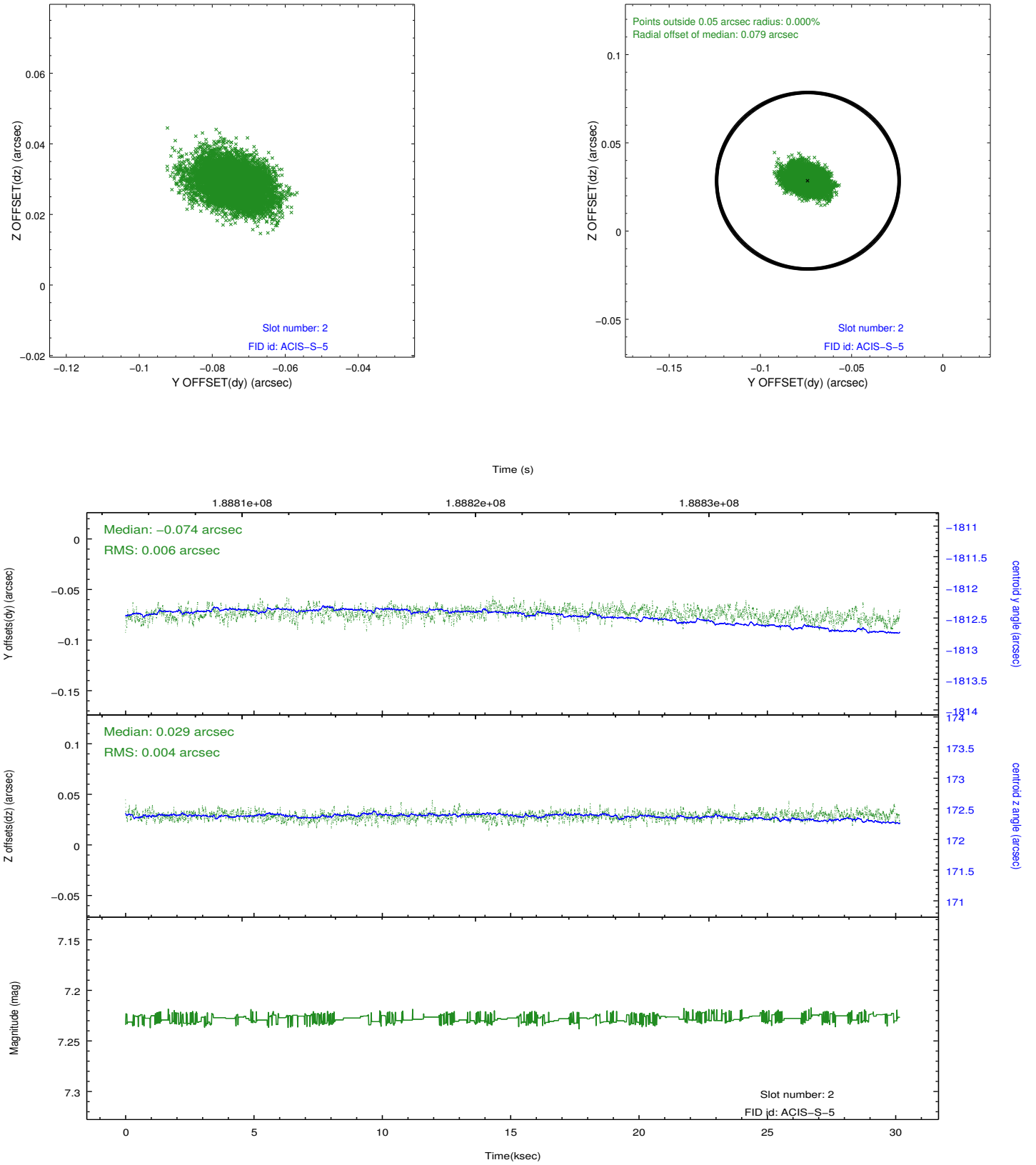
2.5.1 Slot 0



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)	2012.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.159

A.2 Comments

On day 356 at about 00:30, the OBA heater stuck in the 'on' position. This situation affected obsid 4901 and all subsequent observations to this point. The result of this anomaly could be a displacement of the target on the chip in the z direction. The displacement will be small because everything is still within spec, but the target may be spatially displaced, have a different point spread function, or trail across the chip.