

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7535 - L2 Version 3
Chandra X-Ray Center

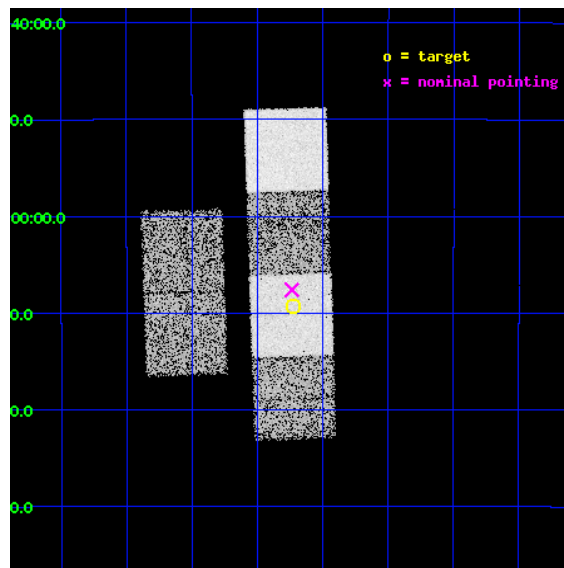
L2 Processing Date : May 9 2012

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1 Front

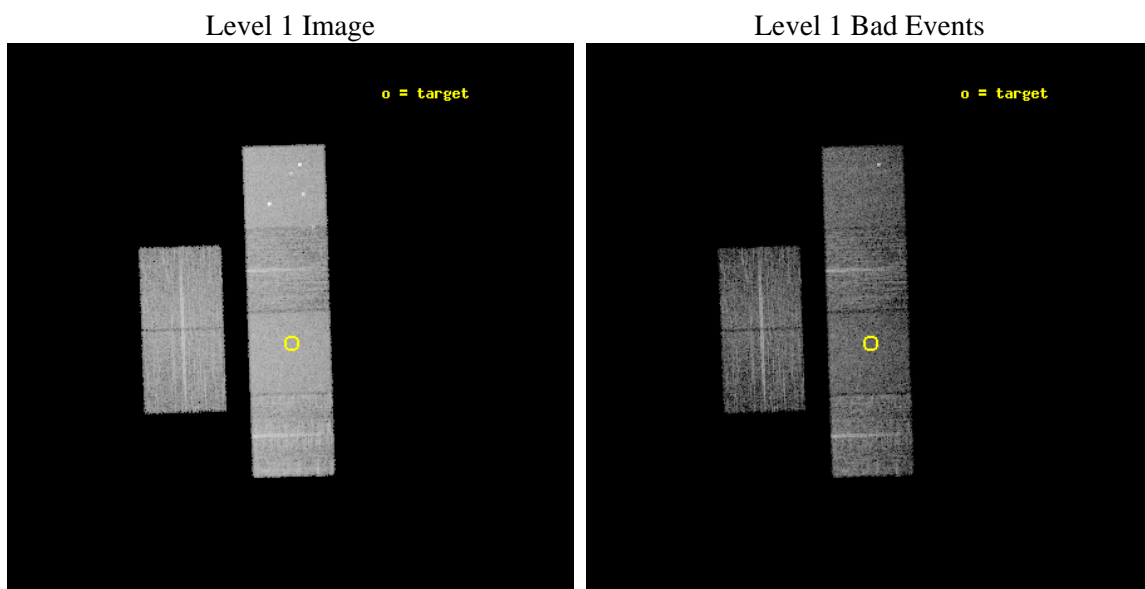
seq_num	400645	Sequence number
obs_id	7535	Observation id
title	Localization and Spectra of INTEGRAL-Selected Sources in the Galactic Plane	Proposal title
observer	Dr. John Tomsick	Principal investigator
object	IGR J17331-2406	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	263.306	Observer's specified target RA [deg]
dec_targ	-24.156	Observer's specified target Dec [deg]
ra_nom	263.30885081106	Nominal RA [deg]
dec_nom	-24.126884832222	Nominal Dec [deg]
roll_nom	88.125054216221	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5171.1999807954	Sum of GTIs [s]
livetime	5105.7191329158	Livetime [s]
ontime2	5171.1999807954	Sum of GTIs [s]
ontime3	5171.1999807954	Sum of GTIs [s]
ontime5	5171.1999807954	Sum of GTIs [s]
ontime6	5171.1999807954	Sum of GTIs [s]
ontime7	5171.1999807954	Sum of GTIs [s]
ontime8	5171.1999807954	Sum of GTIs [s]
l2events	83649	Number of level 2 events



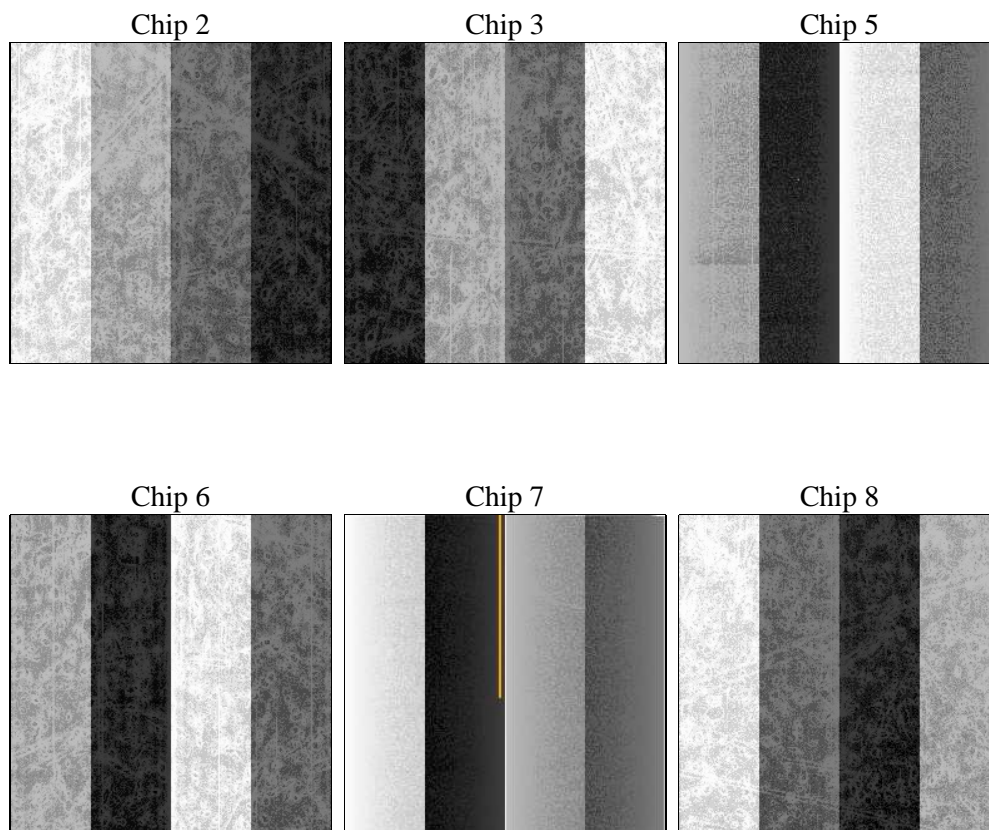
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5171.1999807954	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	5171.1999807954	Sum of GTIs [s]
date	2012-05-09T16:03:52	Date and time of file creation	ontime3	5171.1999807954	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5171.1999807954	Sum of GTIs [s]
			ontime6	5171.1999807954	Sum of GTIs [s]
			ontime7	5171.1999807954	Sum of GTIs [s]
			ontime8	5171.1999807954	Sum of GTIs [s]
			l1events	376616	Number of level 1 events

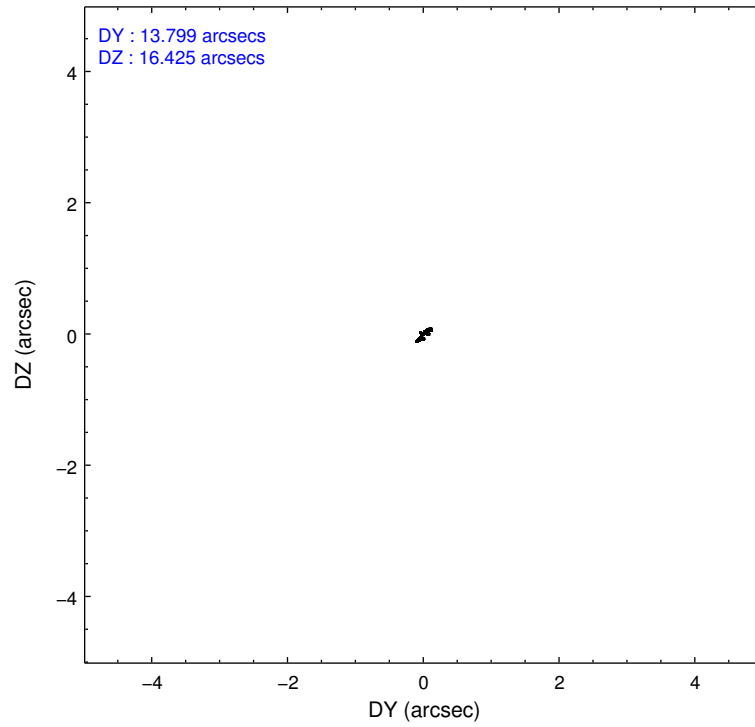
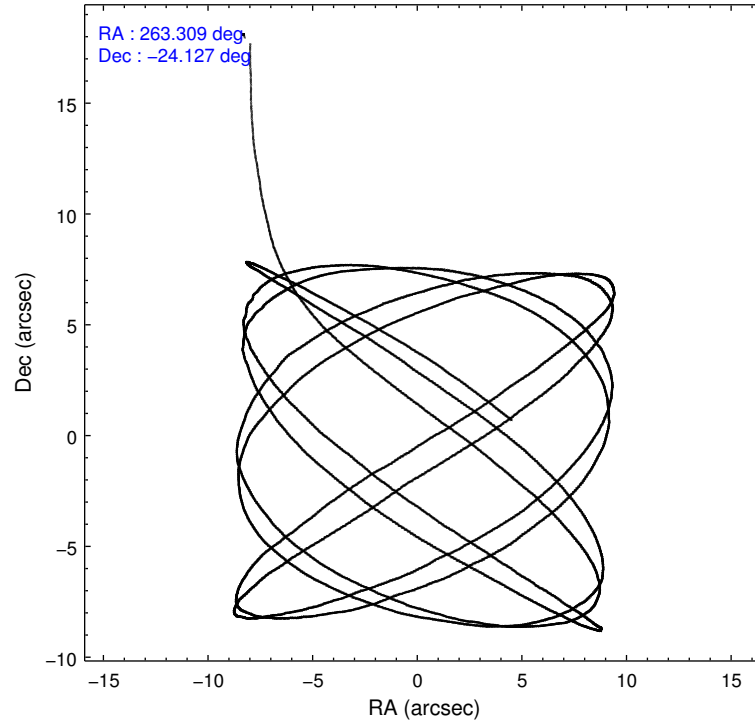
2.1.4 Events

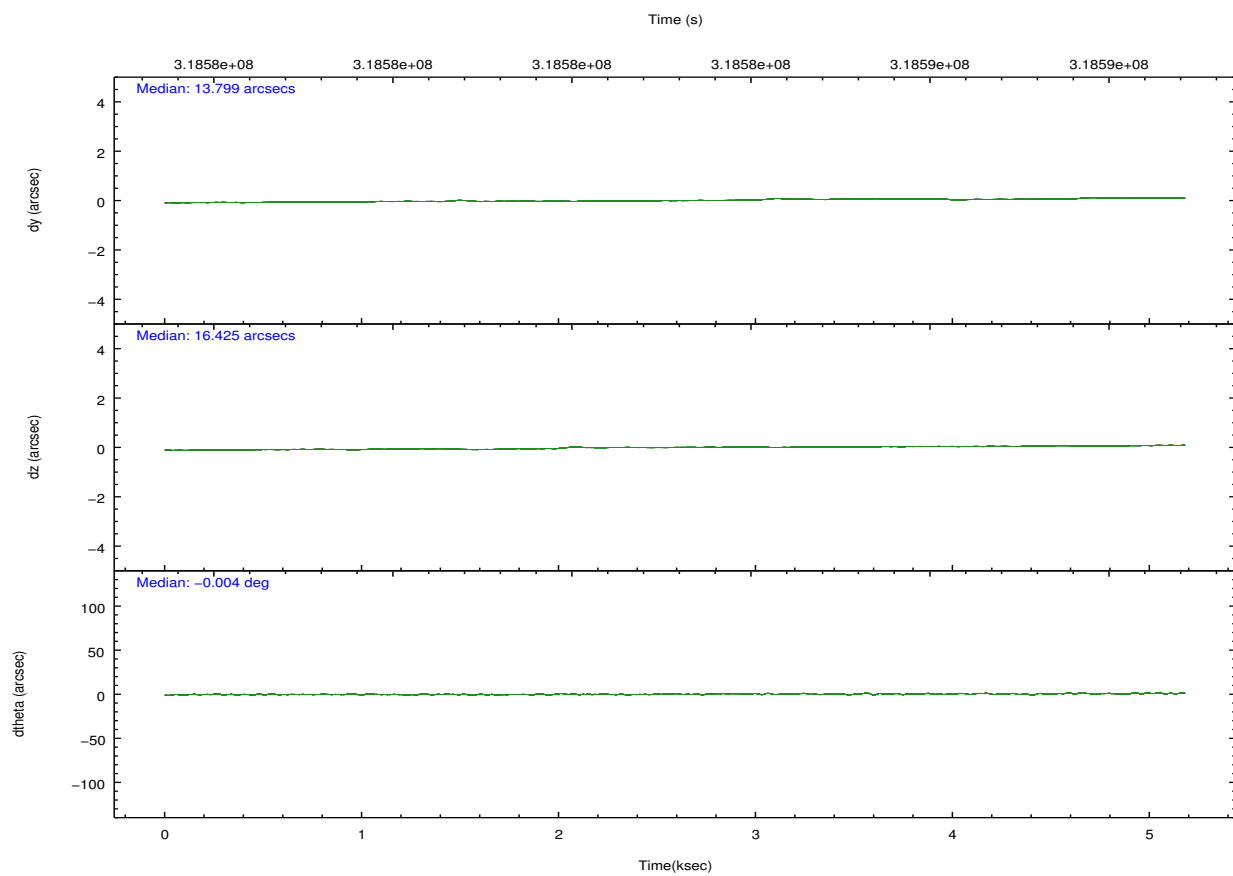
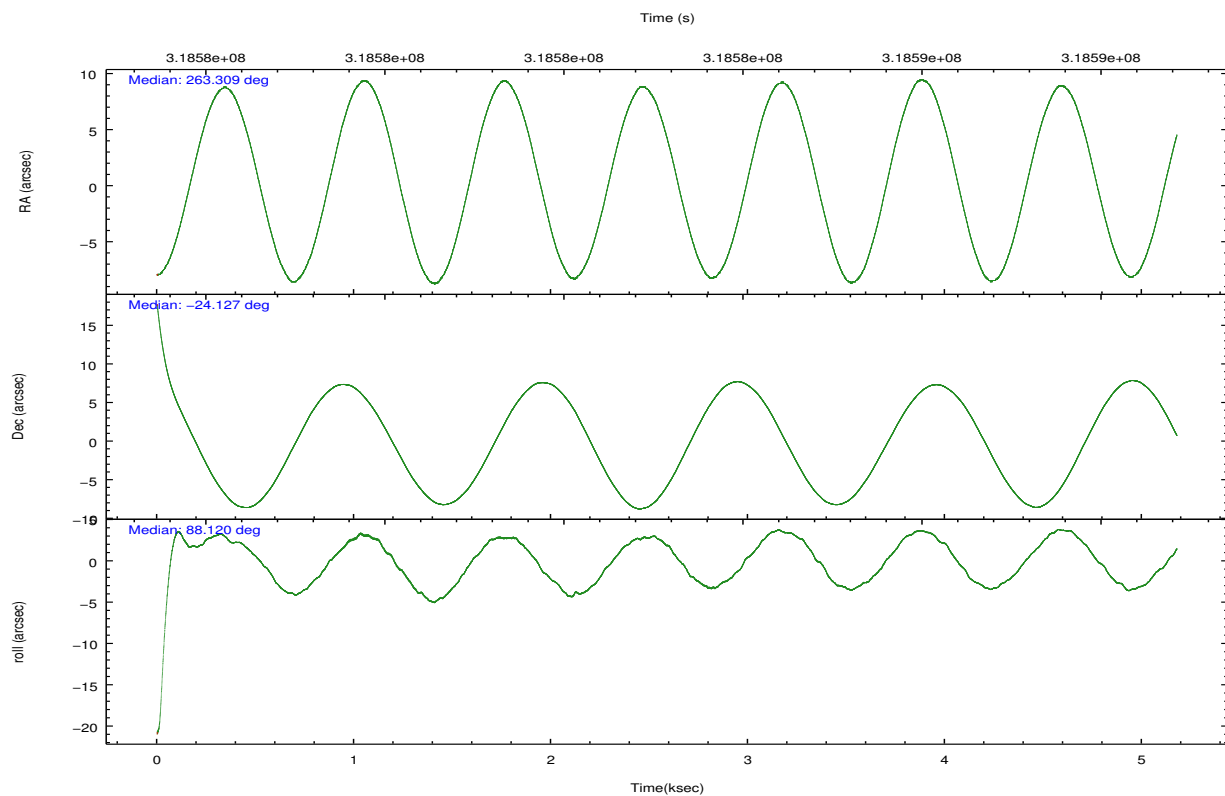
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	51944	50352	81719	54245	71752	66604	grade 0 events	2979	2831	4567	2572	2544	4867
rejected events	45703	44313	44803	48088	43030	51878		5%	5%	5%	4%	3%	7%
rejected %	87%	88%	54%	88%	59%	77%	grade 1 events	38	33	164	35	77	51
								0%	0%	0%	0%	0%	0%
							grade 2 events	1415	1237	11669	1484	6186	3415
								2%	2%	14%	2%	8%	5%
							grade 3 events	542	580	1320	564	2571	1570
								1%	1%	1%	1%	3%	2%
							grade 4 events	573	600	1315	530	2502	1513
								1%	1%	1%	0%	3%	2%
							grade 5 events	2206	2403	5660	2500	6769	3185
								4%	4%	6%	4%	9%	4%
							grade 6 events	1032	1052	19682	1271	16184	3985
								1%	2%	24%	2%	22%	5%
							grade 7 events	43159	41616	37342	45289	34919	48018
								83%	82%	45%	83%	48%	72%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	263.323384	263.3088508110554	CCD I2 on	O2	Y
[deg] Pointing Dec	-24.150892	-24.12688483222214	CCD I3 on	Y	Y
[deg] Pointing Roll	87.974439	88.12505421622099	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	Y	Y
[s] Observation start time (MET)	318582165.184000	318580983.70062	CCD S5 on	N	N
Observation start date	2008-02-05T07:01:40	2008-02-05T06:43:03	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	318587165.184000	318587454.52593	On-chip summing requested	N	N
Observation end date	2008-02-05T08:25:00	2008-02-05T08:30:54	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



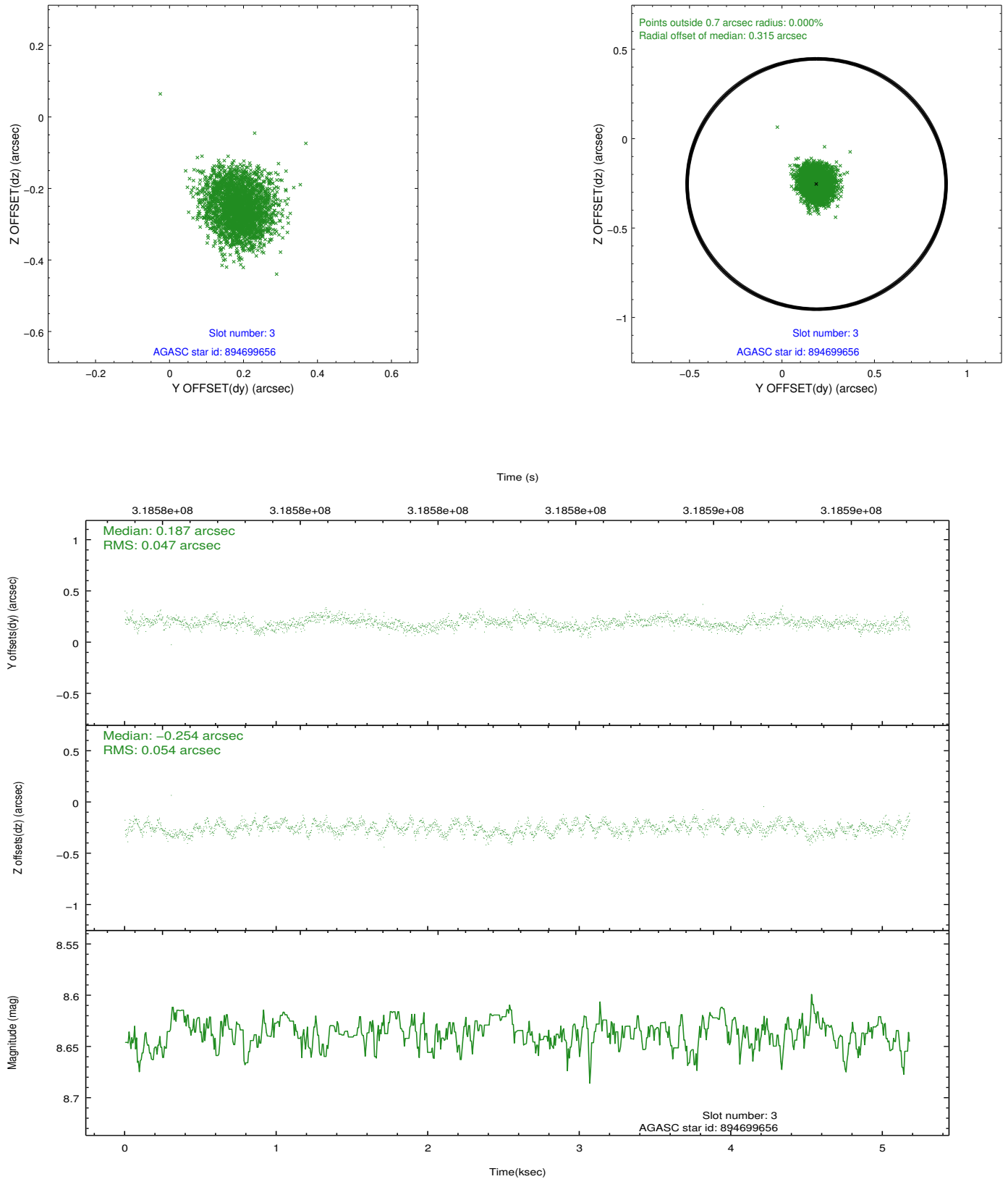


Slot Statistics

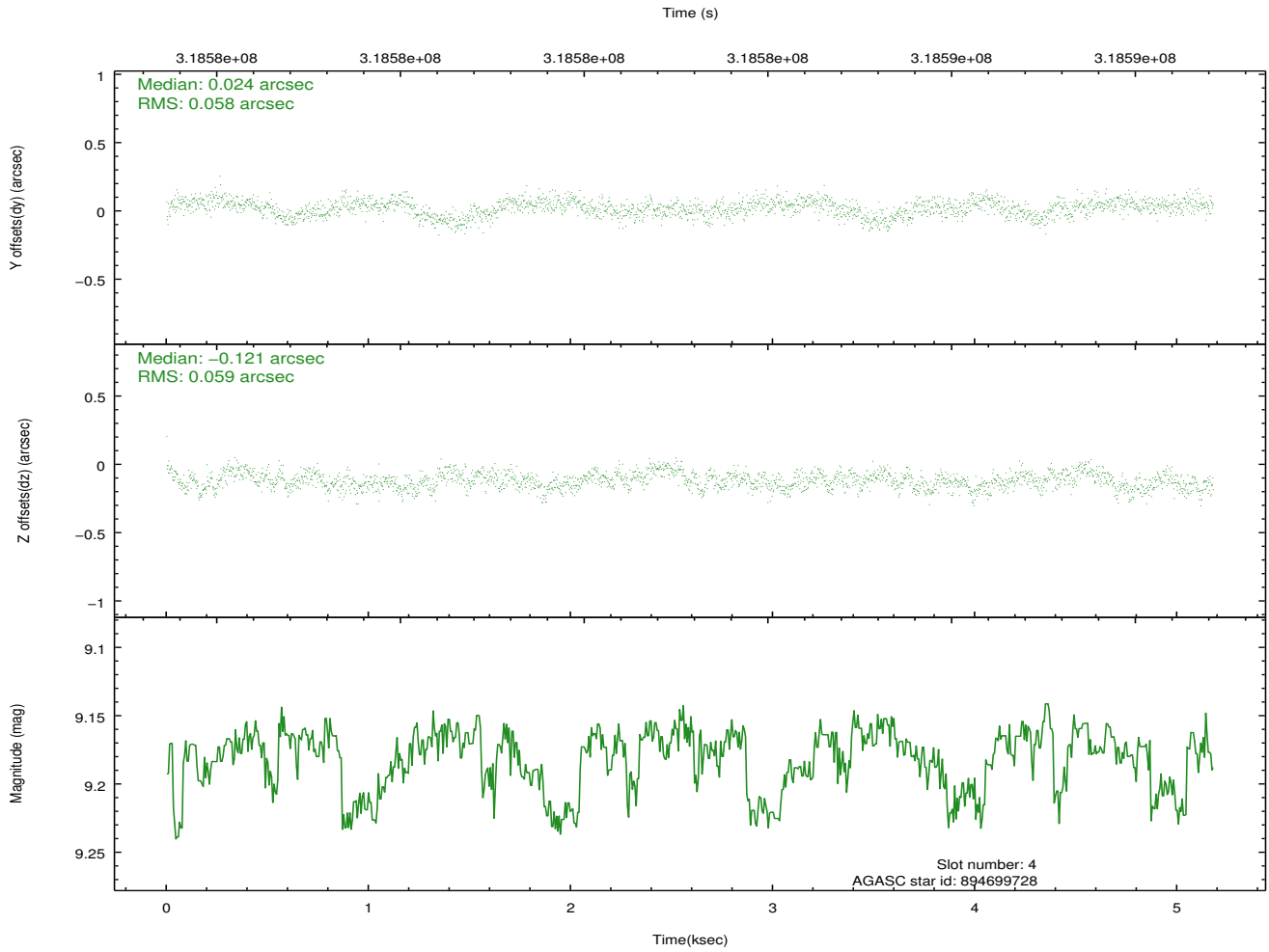
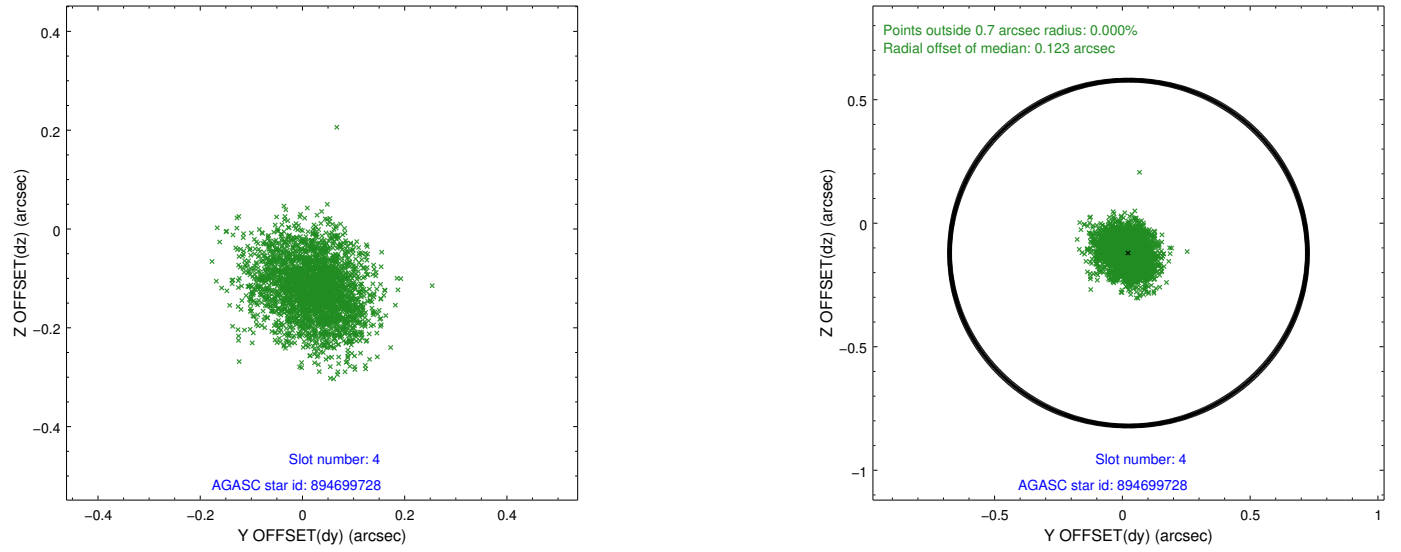
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.08	1263	-0.047	-0.027	0.007	0.013	0.000000	0.000000	-766.80	-1737.80
1	FID	ACIS-S-4	7.18	1264	0.174	0.030	0.007	0.015	0.000000	0.000000	2146.17	169.51
2	FID	ACIS-S-5	7.21	1263	-0.159	0.006	0.008	0.015	0.000000	0.000000	-1818.24	164.51
3	GUIDE	894699656	8.64	2526	0.187	-0.254	0.078	0.121	263.251476	-24.323201	-628.96	213.67
4	GUIDE	894699728	9.18	2525	0.024	-0.121	0.090	0.141	263.397138	-23.980149	622.73	-220.67
5	GUIDE	894699736	8.62	2525	-0.016	0.039	0.068	0.108	263.371475	-24.071635	290.54	-148.66
6	GUIDE	894833224	8.46	2526	-0.272	0.225	0.069	0.116	263.881804	-23.620885	1968.47	-1773.12
7	GUIDE	895353264	7.85	2526	0.088	0.110	0.054	0.088	263.891704	-24.628320	-1655.25	-1919.75

2.4 Star Slots

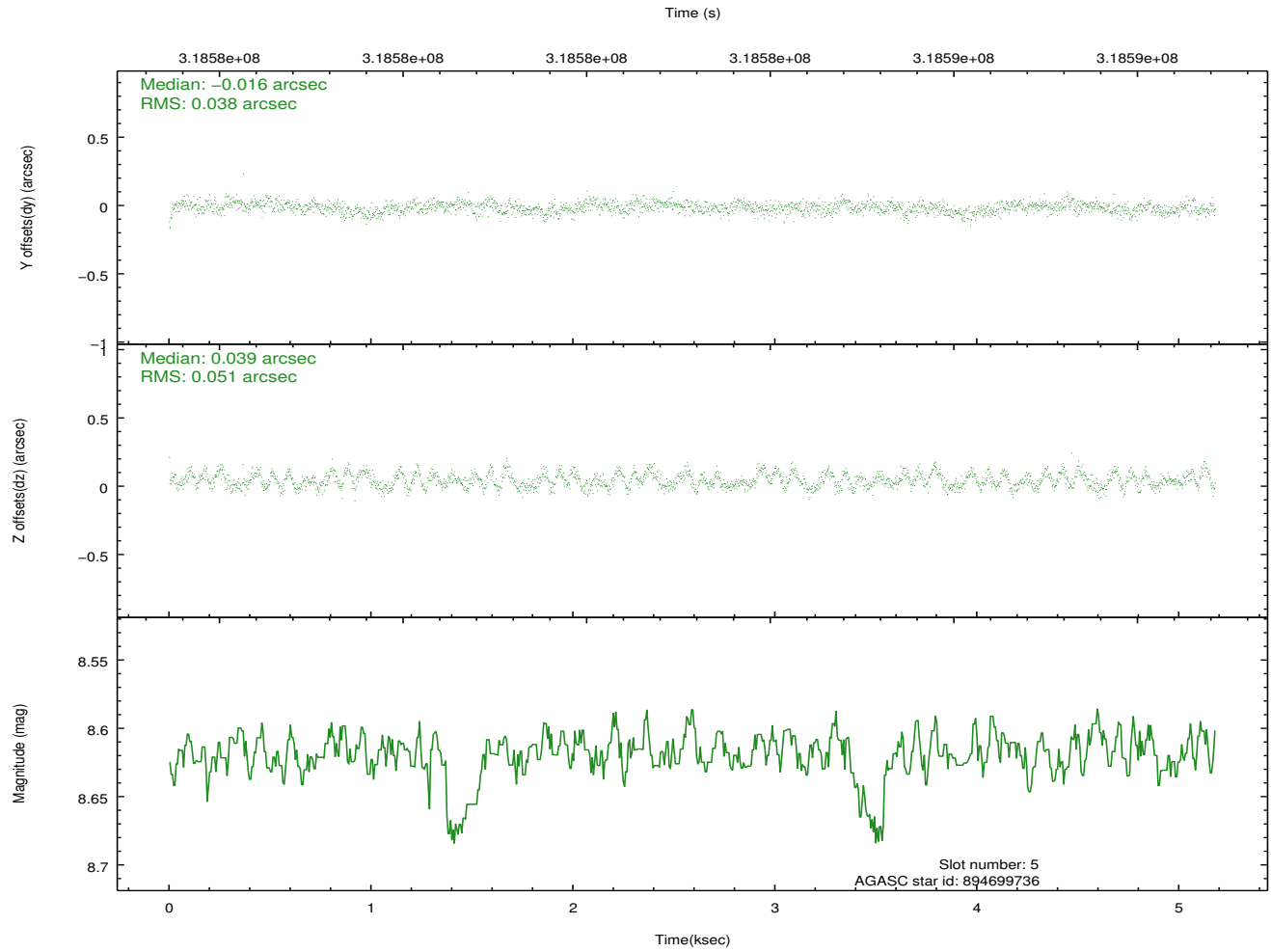
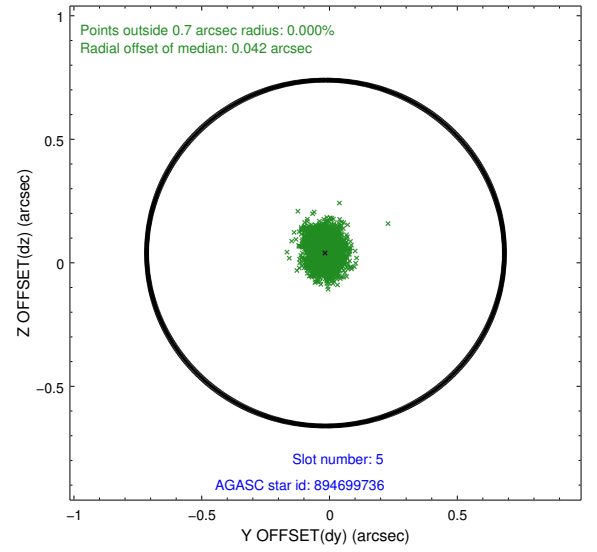
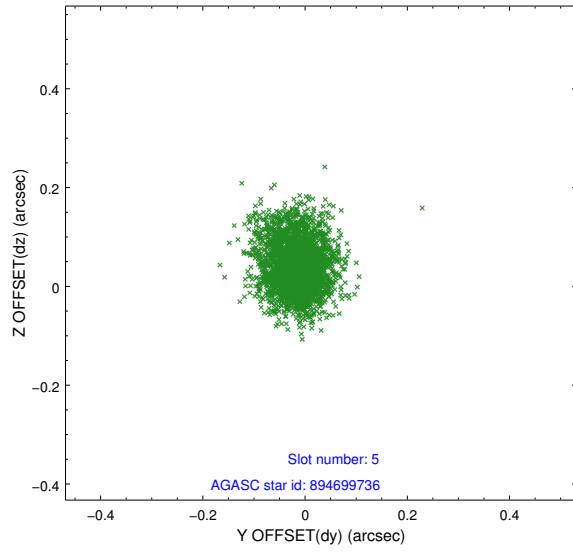
2.4.1 Slot 3



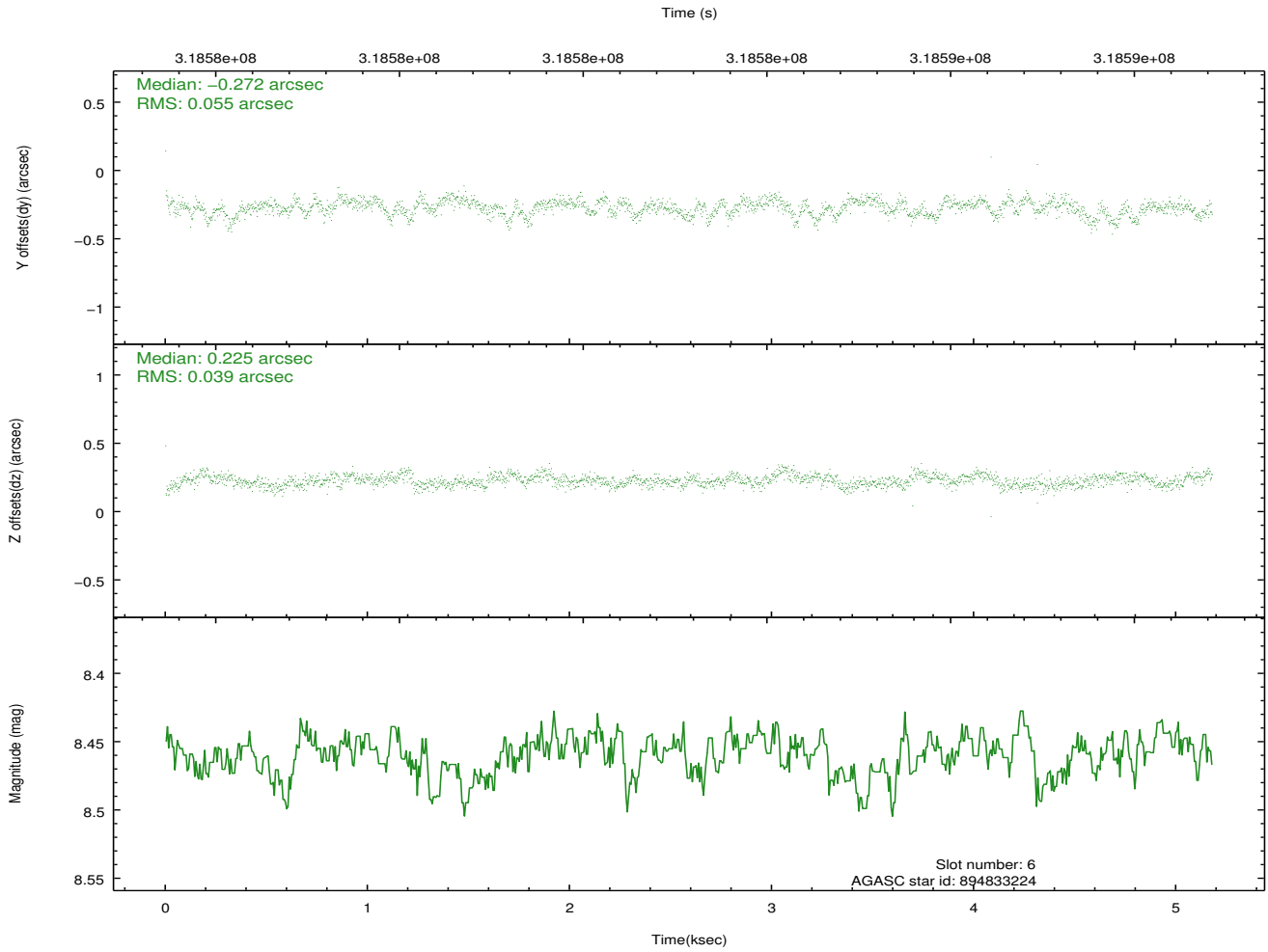
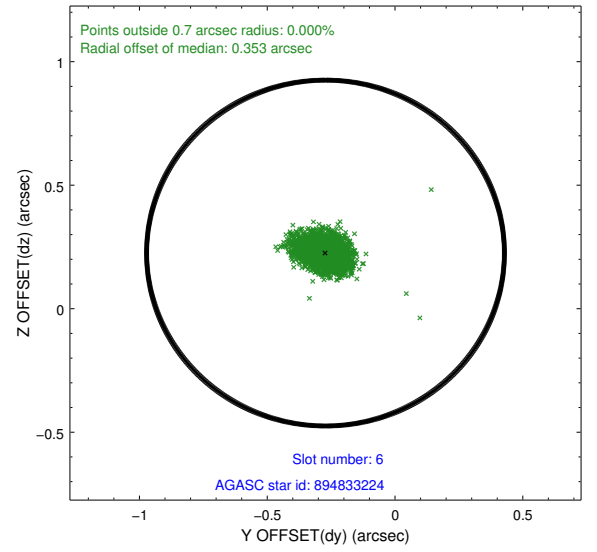
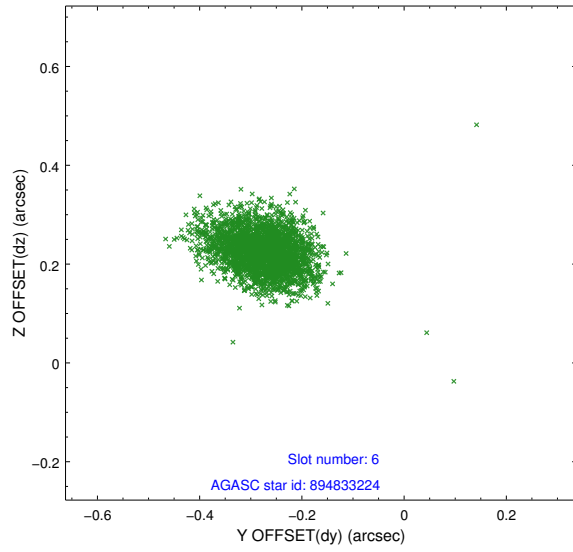
2.4.2 Slot 4



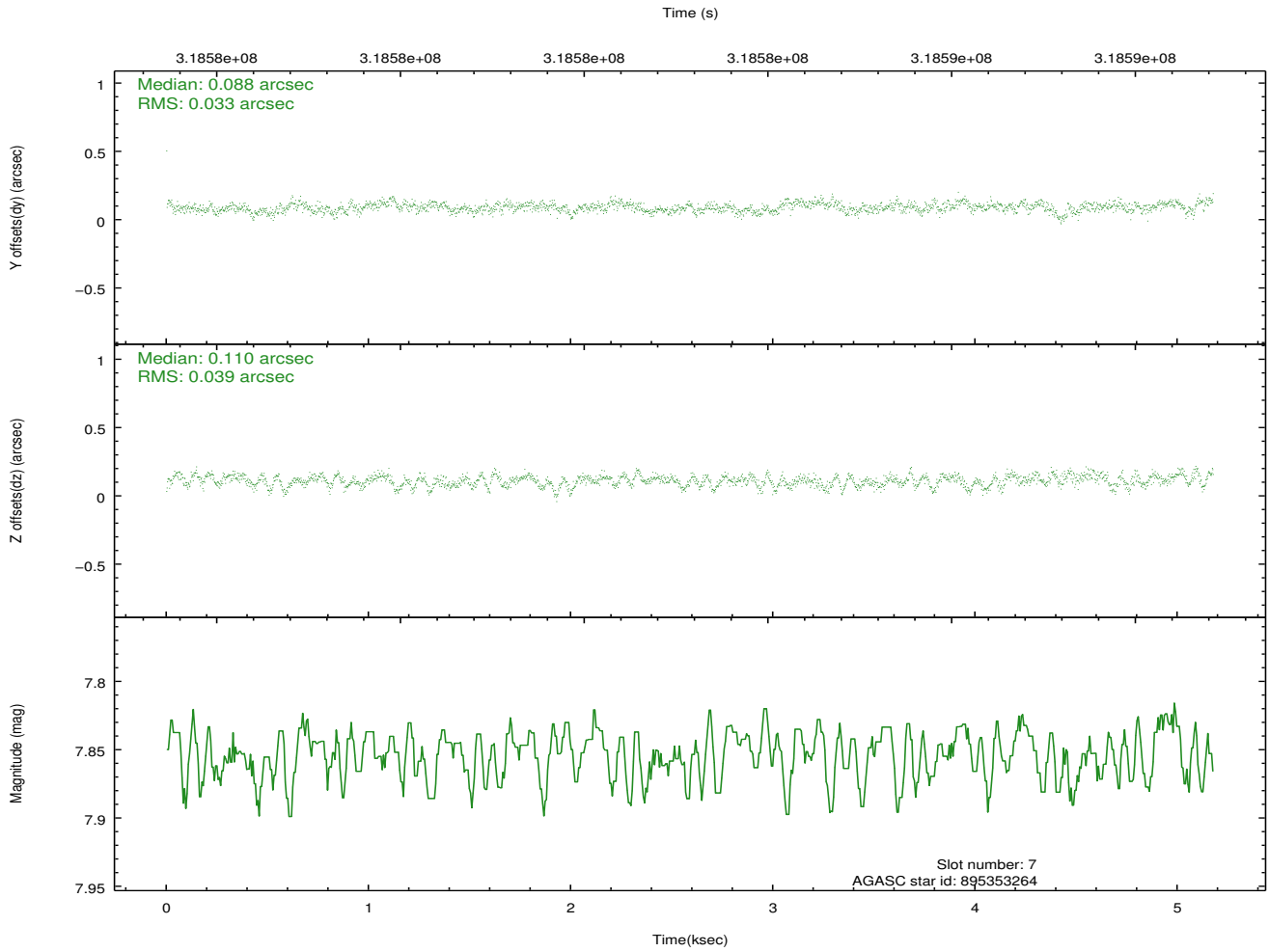
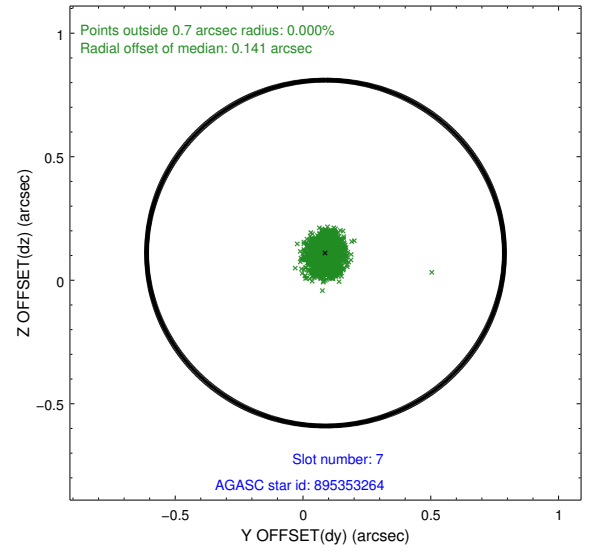
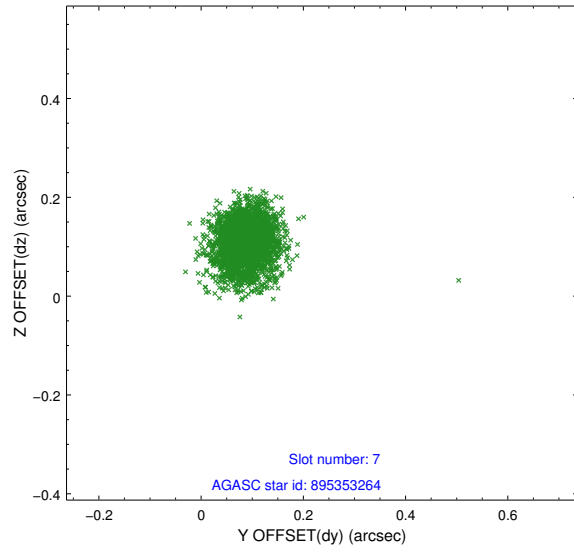
2.4.3 Slot 5



2.4.4 Slot 6

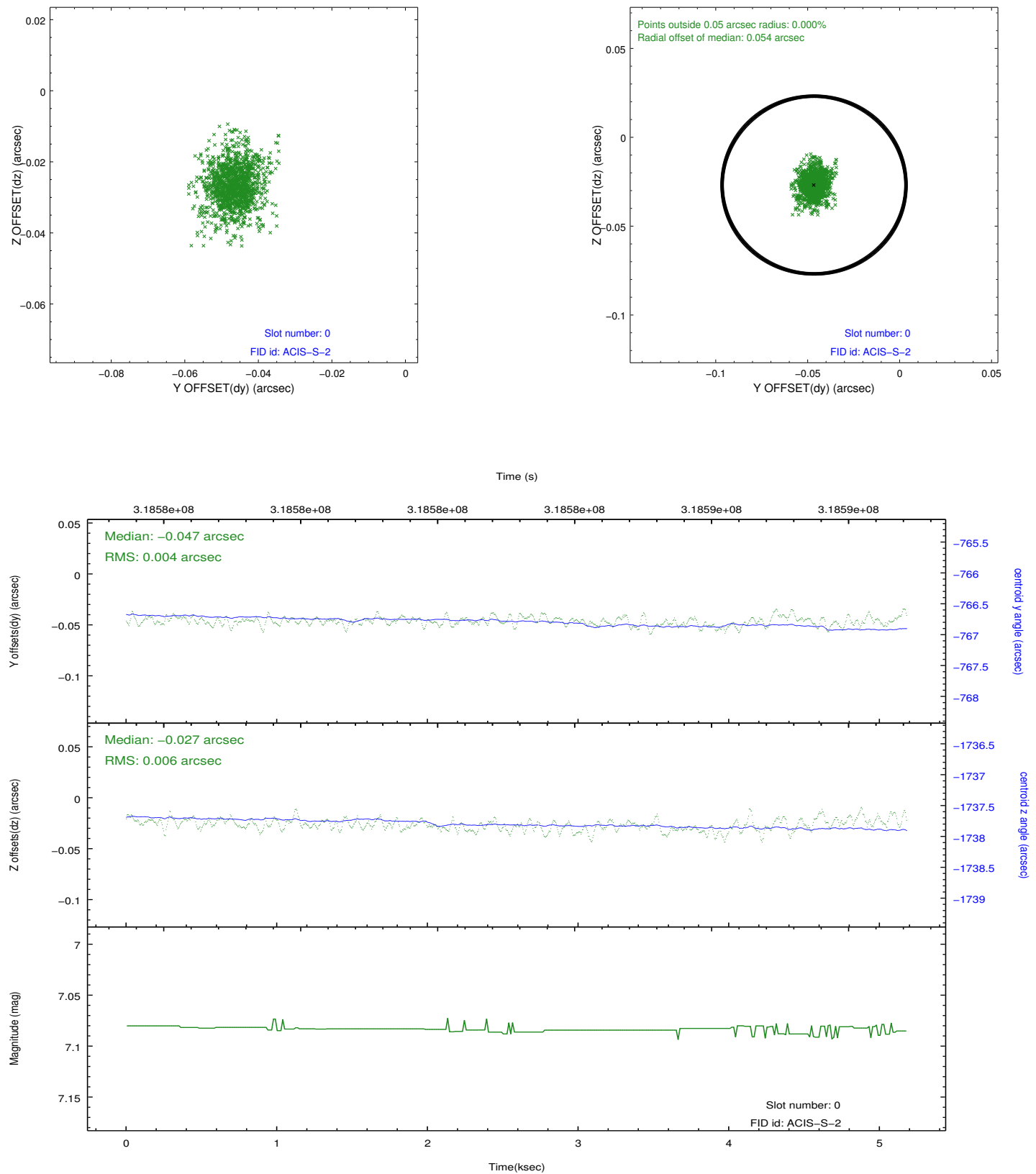


2.4.5 Slot 7

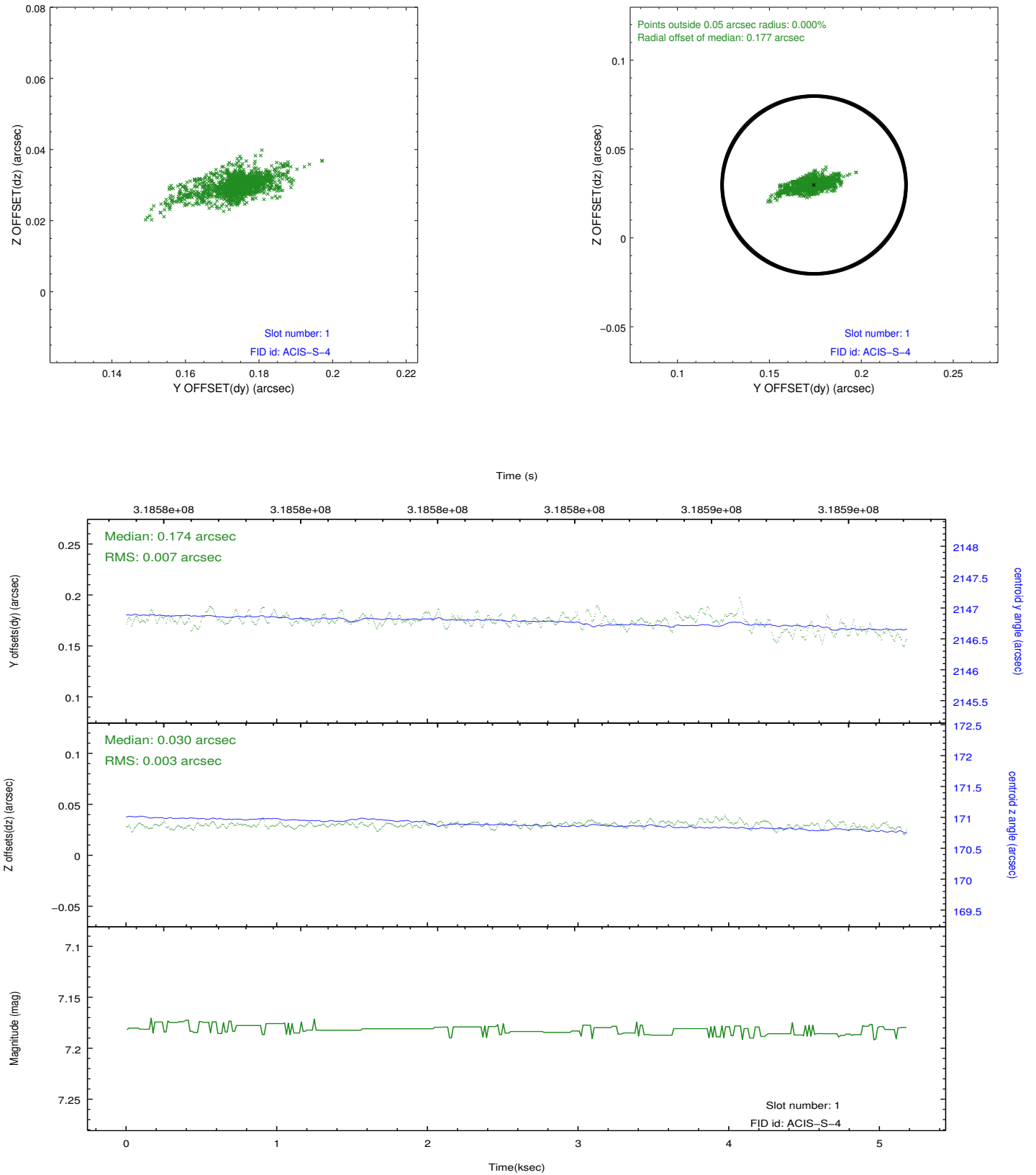


2.5 FID Slots

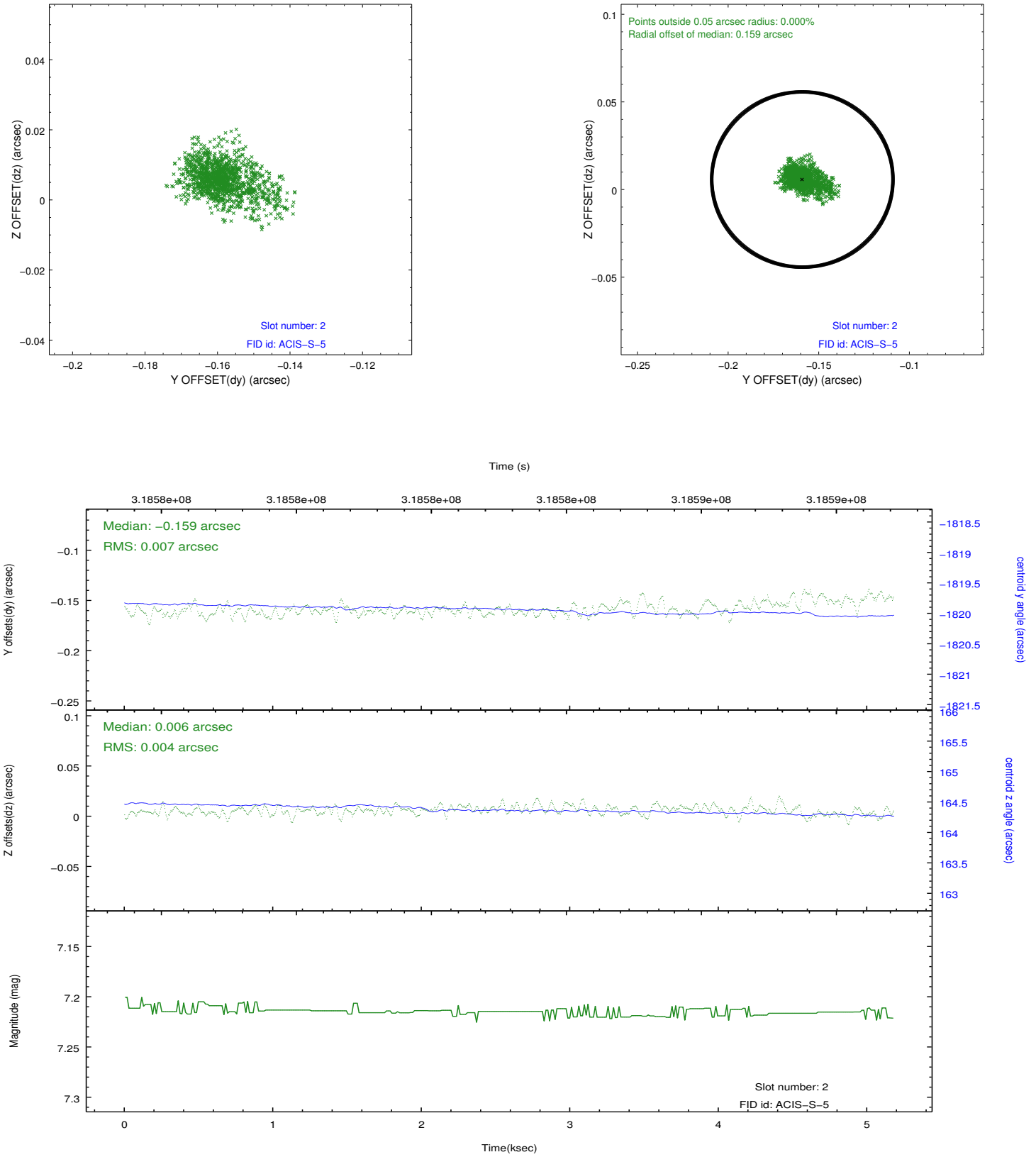
2.5.1 Slot 0



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)	2012.05.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.17119998

A.2 Comments

A spatial region of the original bias map for CCD = 2 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 = 2 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:
(263.54593,-24.01023),(263.54100,-24.01010),(263.53981,-24.04512),(263.54458,-24.04961)