

V&V Reference Report

L2 ASCDS Version : 10.5

Observation 18660 - L2 Version 1
Chandra X-Ray Center

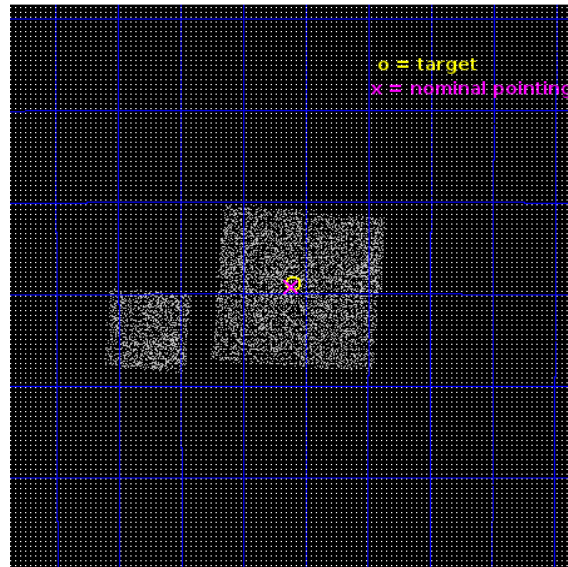
L2 Processing Date : Jul 31 2016

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1 Front

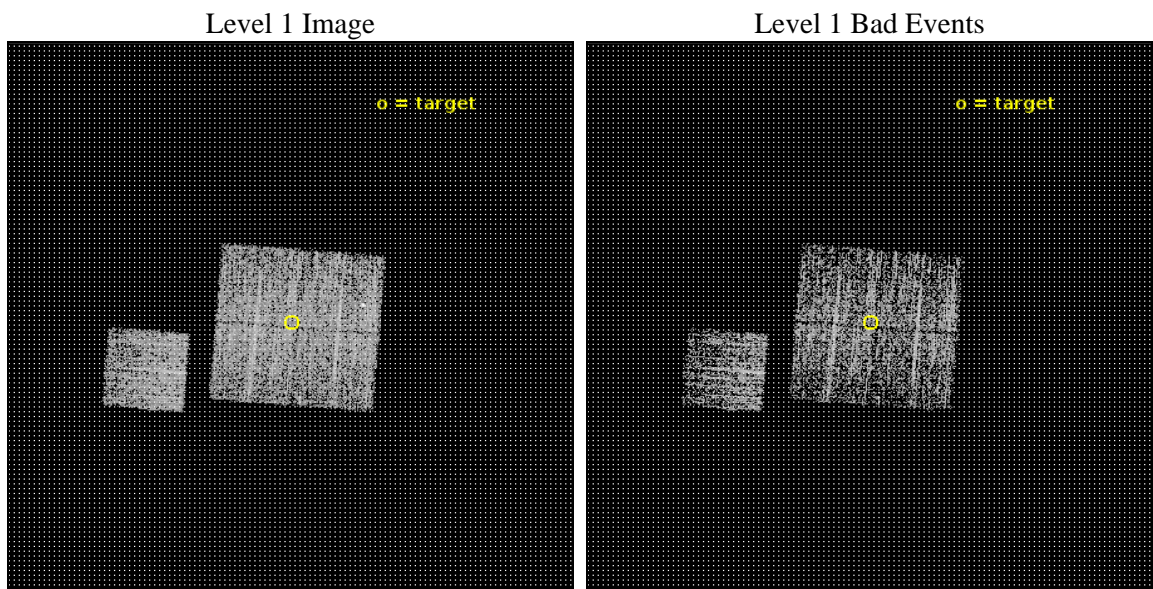
seq_num	300384	Sequence number
obs_id	18660	Observation id
title	X-raying the Galactic center/bulge interface	Proposal title
observer	Q. Daniel Wang	Principal investigator
object	GC-GB interface	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.6496	Observer's specified target RA [deg]
dec_targ	-29.48112	Observer's specified target Dec [deg]
ra_nom	264.65338289835	Nominal RA [deg]
dec_nom	-29.487232984273	Nominal Dec [deg]
roll_nom	274.65949539972	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1955.5615816116	Sum of GTIs [s]
livetime	1930.0107298844	Livetime [s]
ontime0	1955.4384616613	Sum of GTIs [s]
ontime1	1955.479501605	Sum of GTIs [s]
ontime2	1955.5205416679	Sum of GTIs [s]
ontime3	1955.5615816116	Sum of GTIs [s]
ontime6	1955.3974215984	Sum of GTIs [s]
l2events	6967	Number of level 2 events



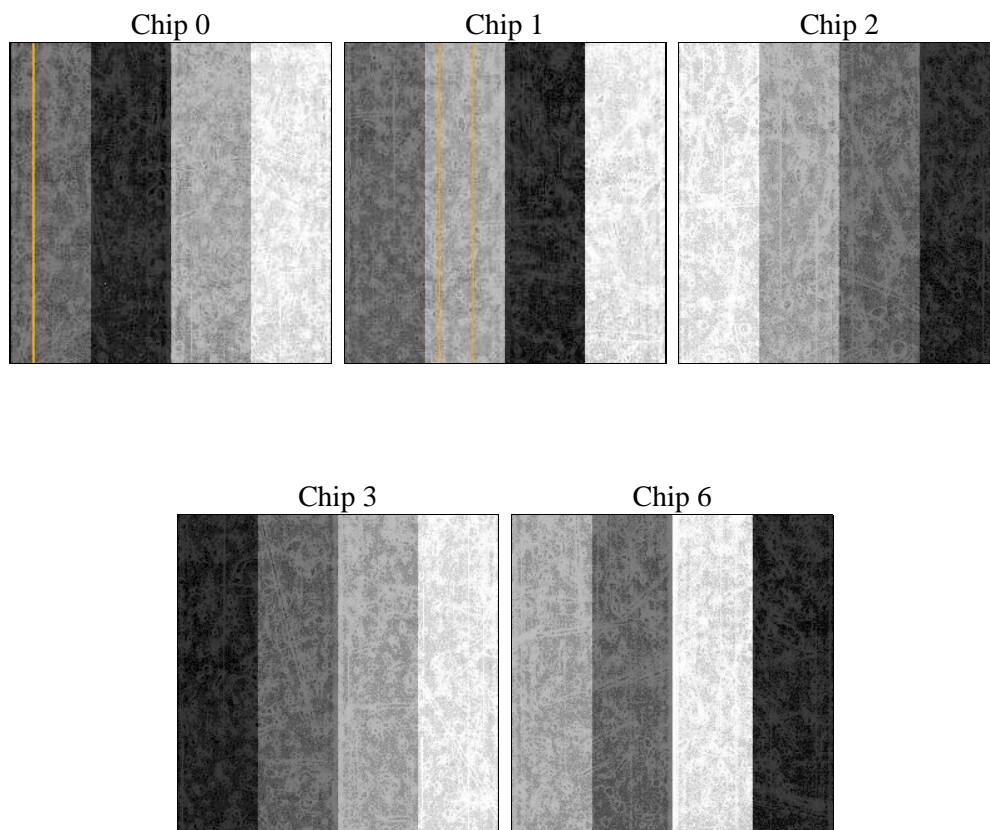
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	10.5	Processing system revision	ontime	1955.5615816116	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	1955.4384616613	Sum of GTIs [s]
date	2016-07-31T17:54:12	Date and time of file creation	ontime1	1955.479501605	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1955.5205416679	Sum of GTIs [s]
			ontime3	1955.5615816116	Sum of GTIs [s]
			ontime6	1955.3974215984	Sum of GTIs [s]
			l1events	62989	Number of level 1 events

2.1.4 Events

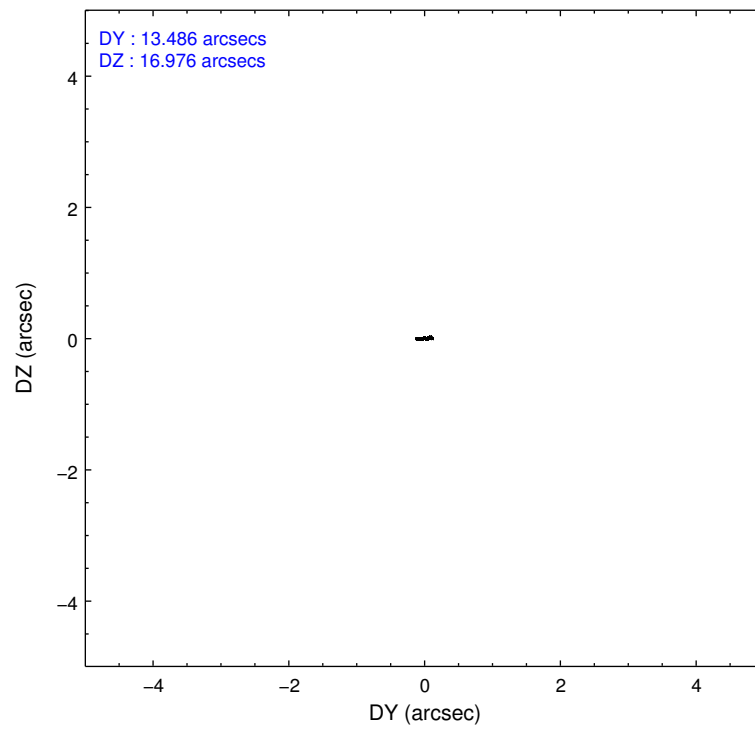
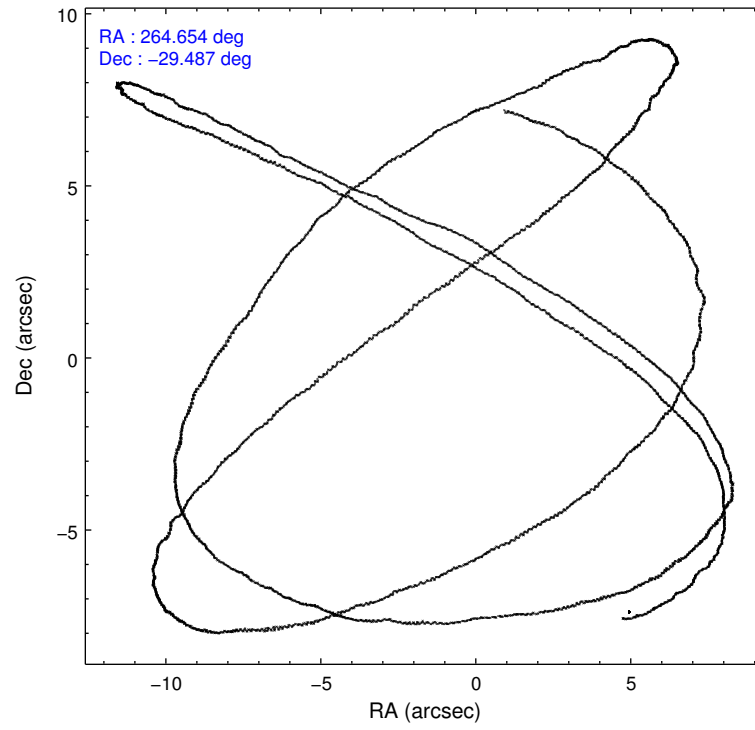
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	11380	13358	12738	12408	13105
rejected events	9723	11102	11144	10881	11526
rejected %	85%	83%	87%	87%	87%

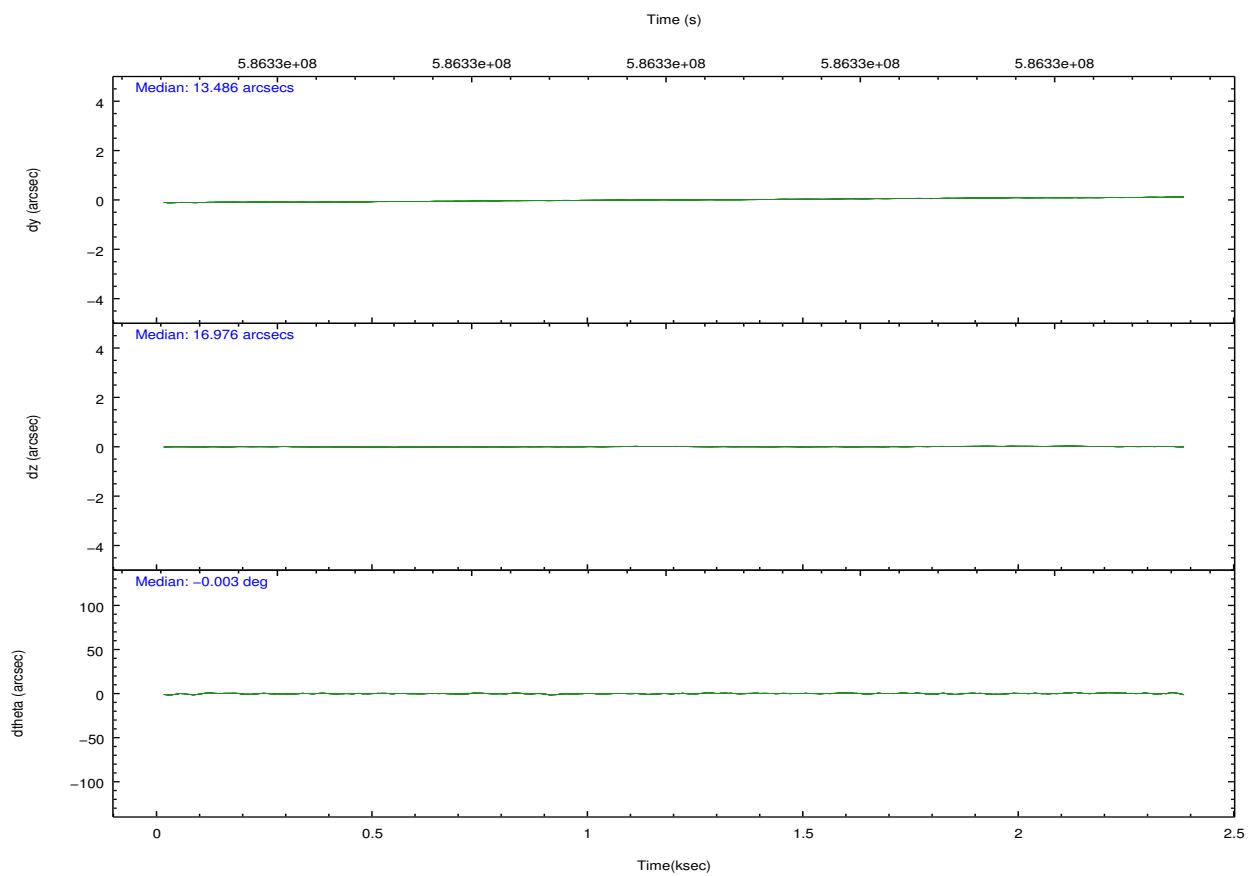
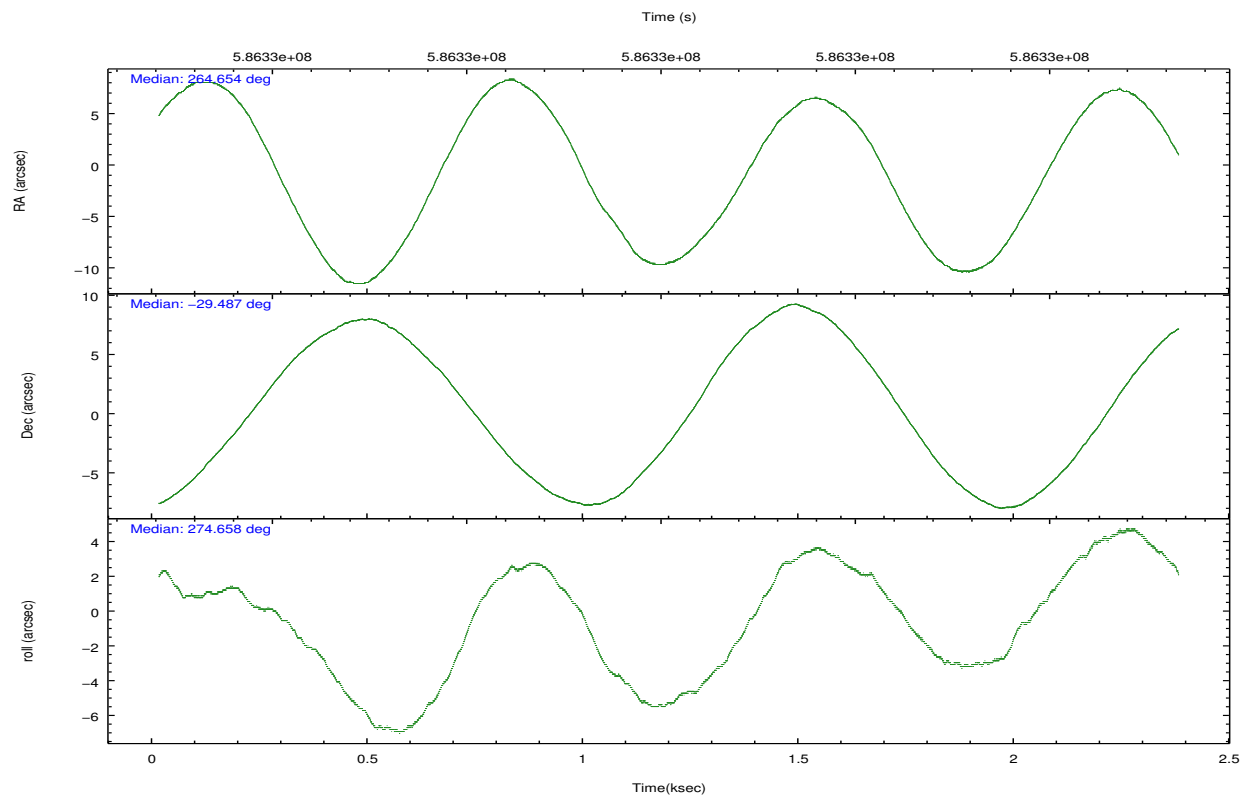
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	598	1161	626	602	552
	5%	8%	4%	4%	4%
grade 1 events	6	17	11	9	7
	0%	0%	0%	0%	0%
grade 2 events	398	429	379	304	387
	3%	3%	2%	2%	2%
grade 3 events	160	161	163	164	138
	1%	1%	1%	1%	1%
grade 4 events	169	180	148	156	167
	1%	1%	1%	1%	1%
grade 5 events	594	586	571	606	633
	5%	4%	4%	4%	4%
grade 6 events	337	327	281	304	338
	2%	2%	2%	2%	2%
grade 7 events	9118	10497	10559	10263	10883
	80%	78%	82%	82%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	264.634974	264.6533828983489	CCD I2 on	Y	Y
[deg] Pointing Dec	-29.464547	-29.48723298427277	CCD I3 on	Y	Y
[deg] Pointing Roll	274.441737	274.6594953997182	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	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	586326540.184000	586326163.70987	CCD S5 on	N	N
Observation start date	2016-07-31T04:27:52	2016-07-31T04:22:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	586328720.184000	586328853.82253	On-chip summing requested	N	N
Observation end date	2016-07-31T05:04:12	2016-07-31T05:07:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



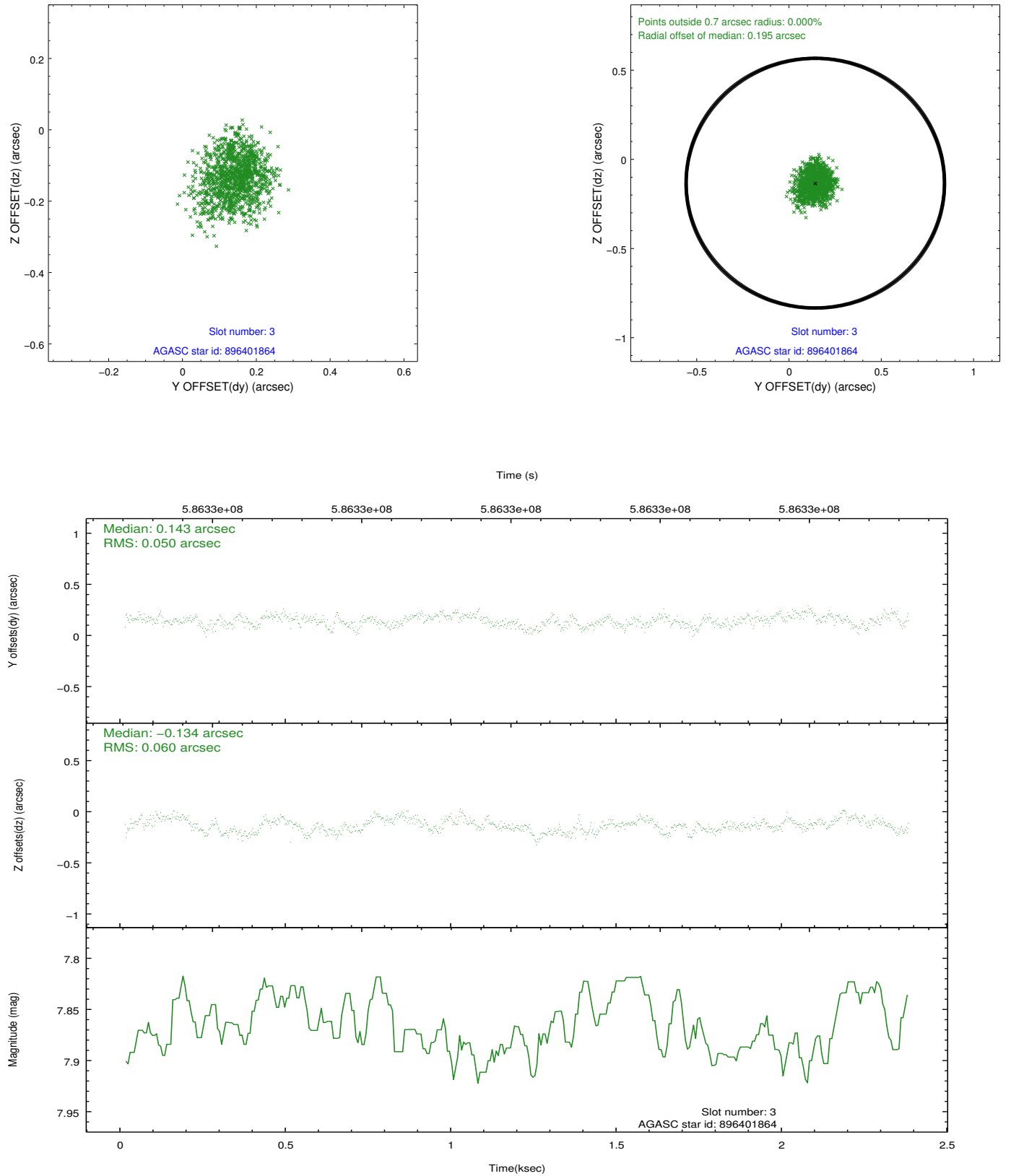


Slot Statistics

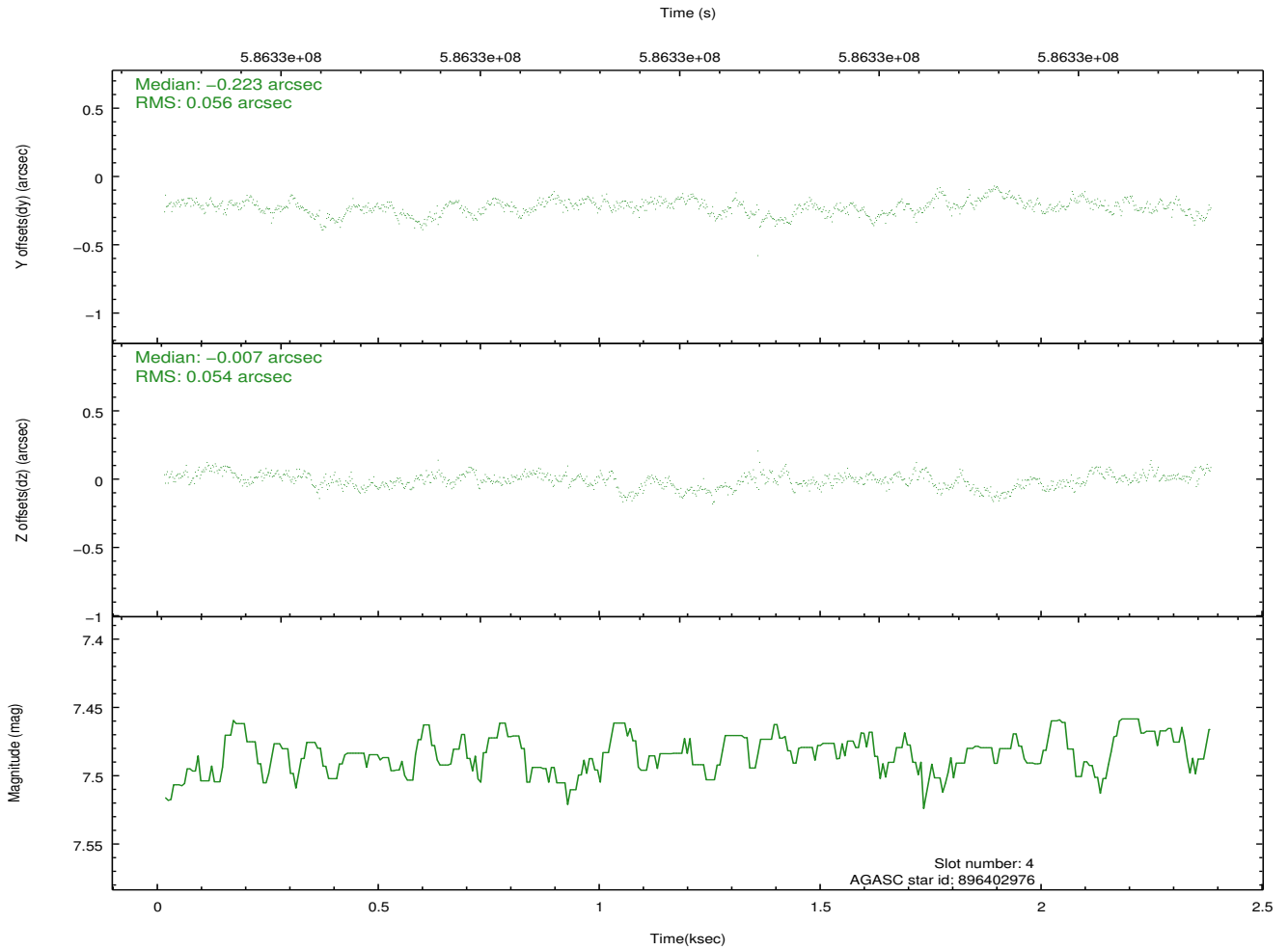
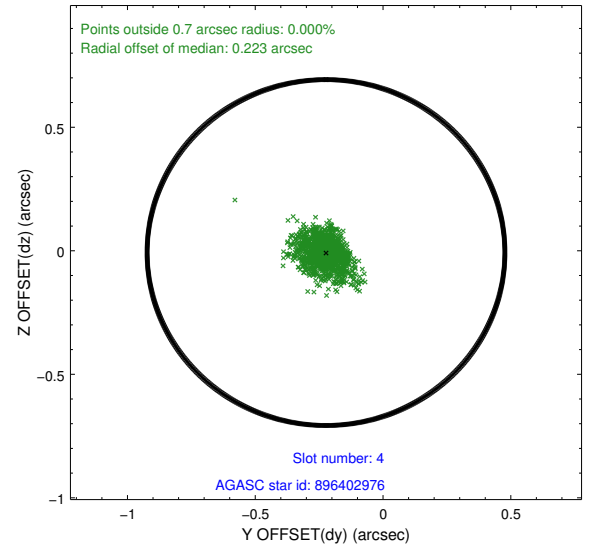
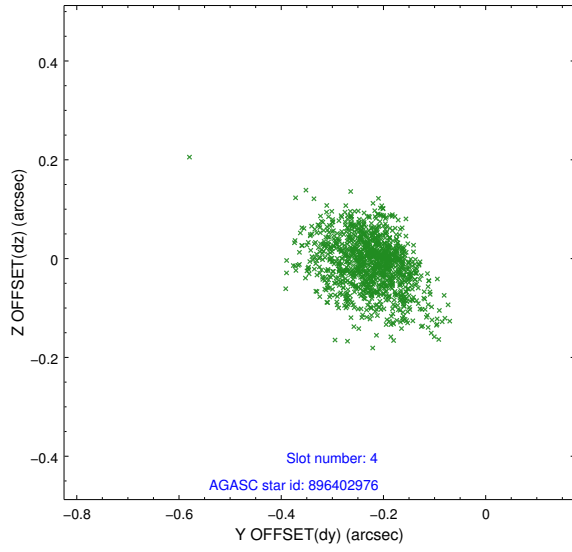
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.06	577	0.068	-0.047	0.006	0.012	0.000000	0.000000	926.10	-840.66
1	FID		ACIS-I-5	7.07	578	-0.294	0.043	0.006	0.010	0.000000	0.000000	-1820.89	1055.49
2	FID		ACIS-I-6	7.06	578	0.135	0.074	0.007	0.012	0.000000	0.000000	388.68	1703.17
3	GUIDE	used	896401864	7.87	1156	0.143	-0.134	0.085	0.131	264.861768	-29.959752	1833.01	566.25
4	GUIDE	used	896402976	7.48	1156	-0.223	-0.007	0.082	0.135	265.099474	-28.923203	-1825.43	1609.61
5	GUIDE	used	896403072	8.35	1154	0.163	0.265	0.137	0.188	263.956439	-28.943077	-2032.41	-1985.60
6	GUIDE	used	896404376	6.65	1156	0.015	-0.127	0.092	0.145	264.835179	-29.530972	285.78	604.02
7	GUIDE	used	966787648	8.86	1152	-0.097	0.009	0.112	0.167	265.297931	-30.077843	2367.28	1887.53

2.4 Star Slots

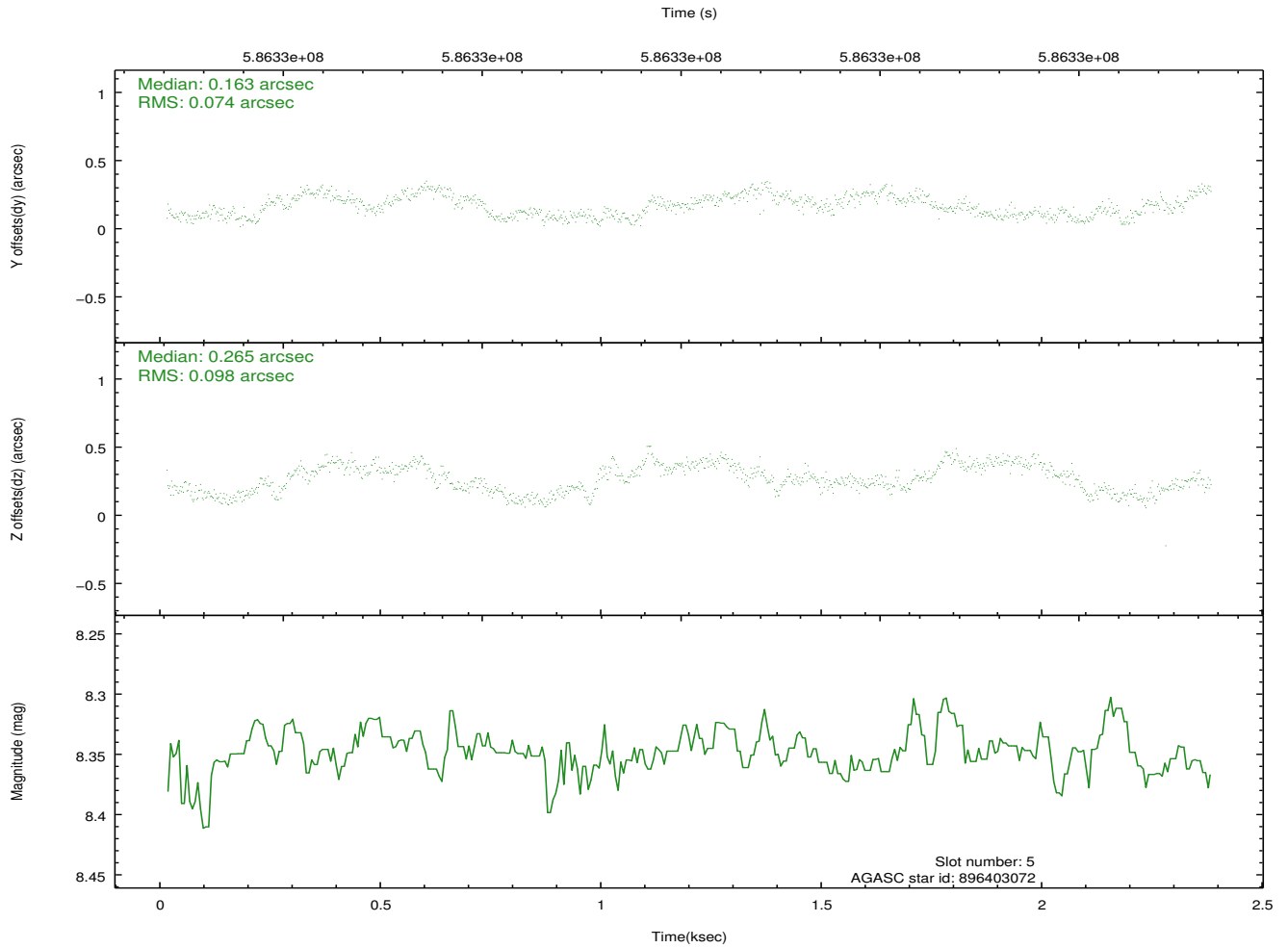
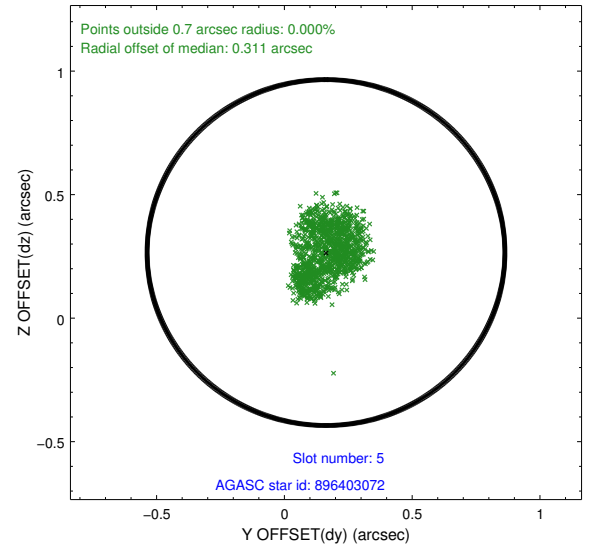
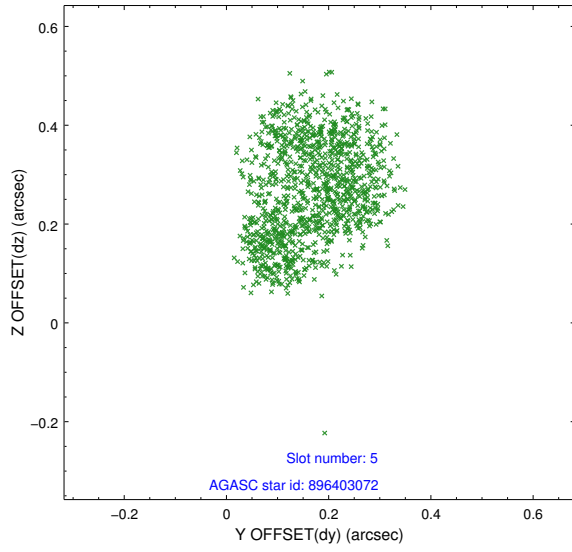
2.4.1 Slot 3



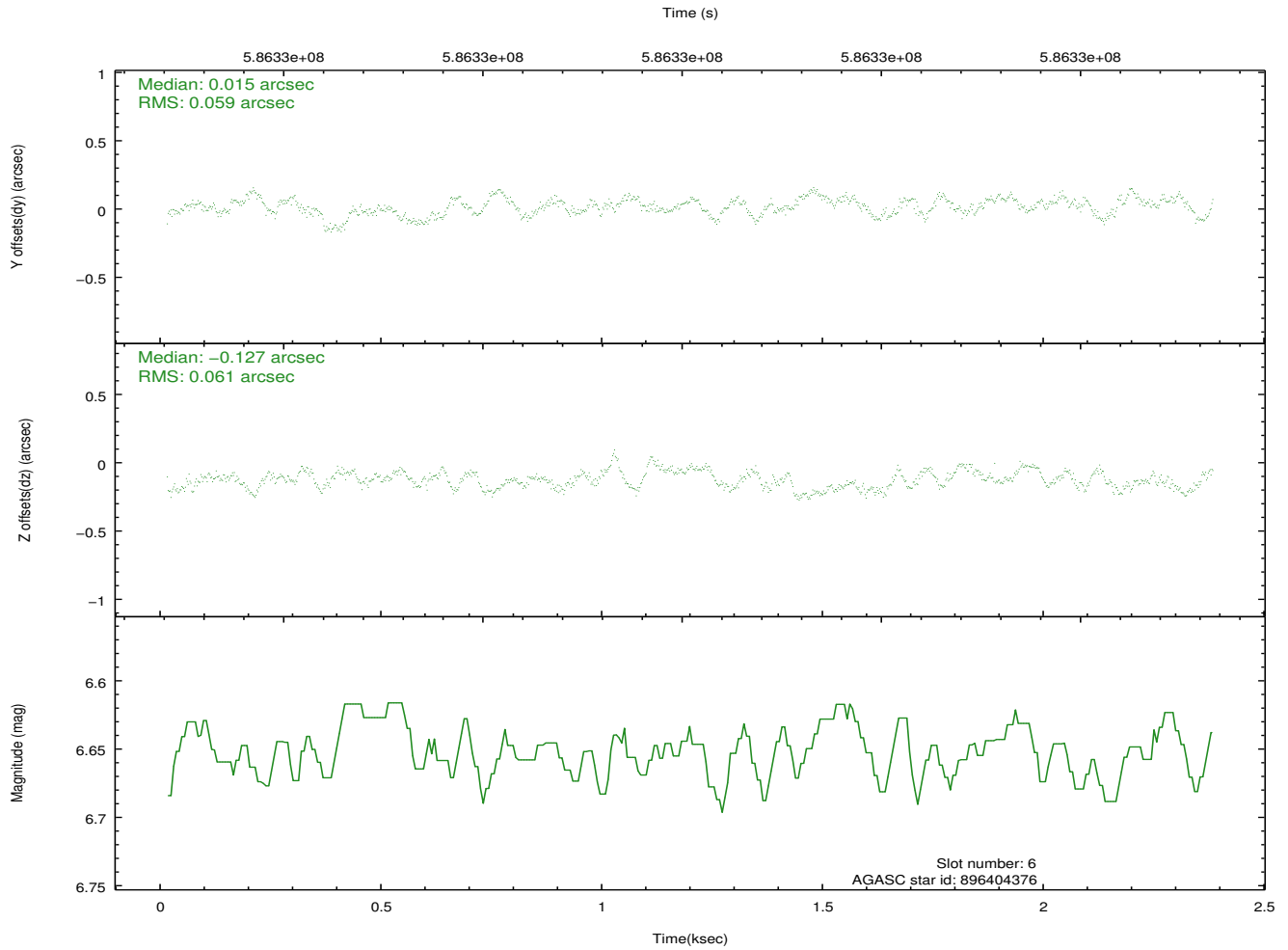
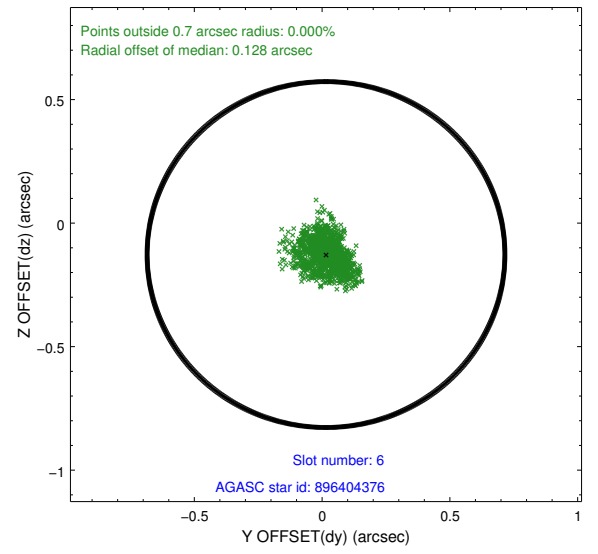
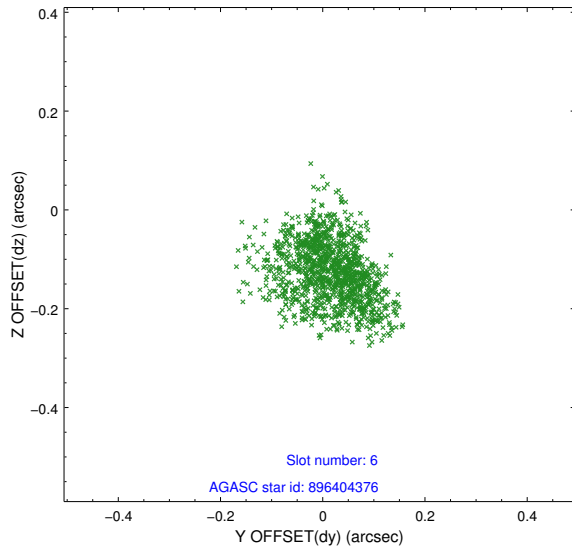
2.4.2 Slot 4



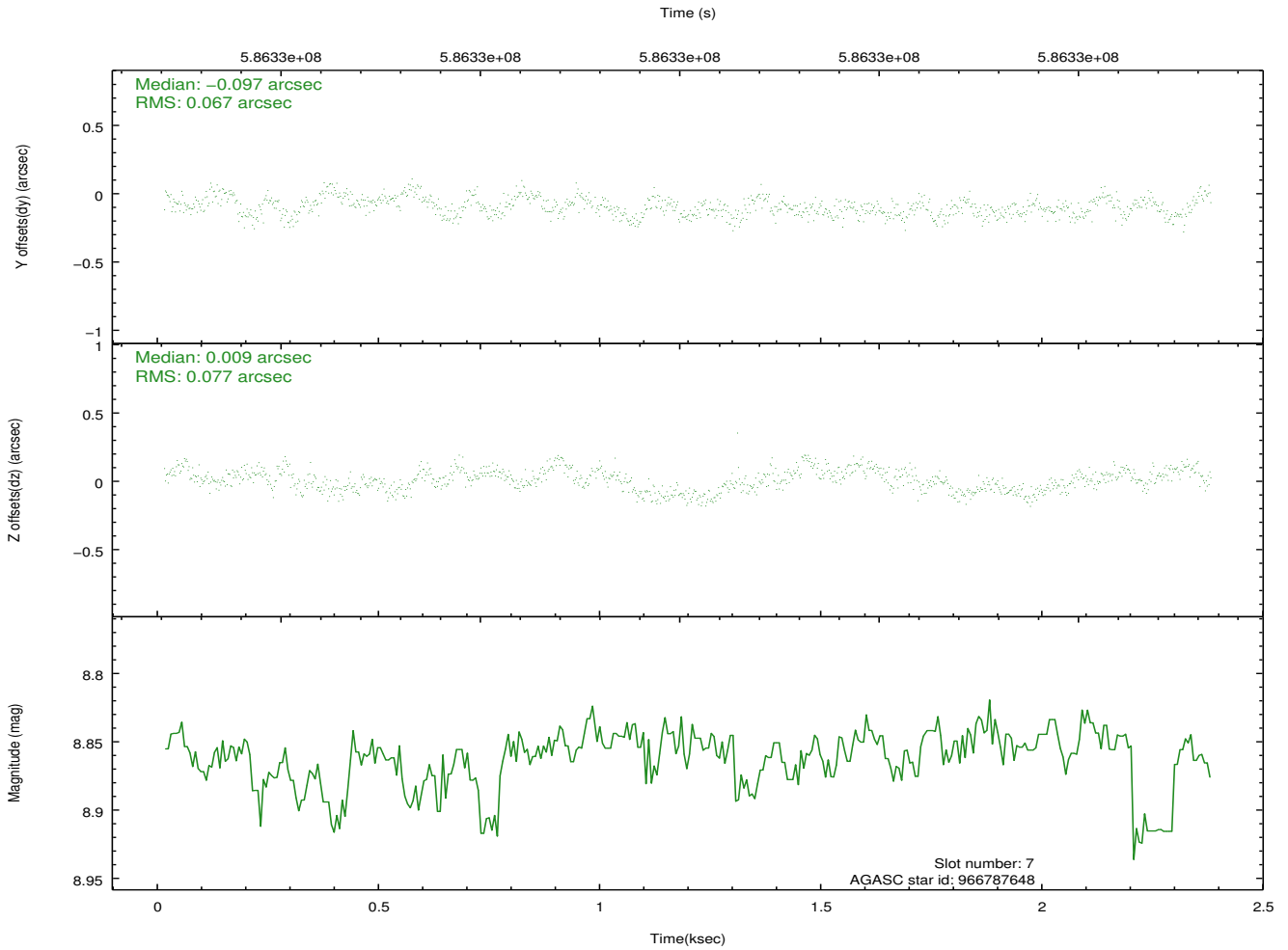
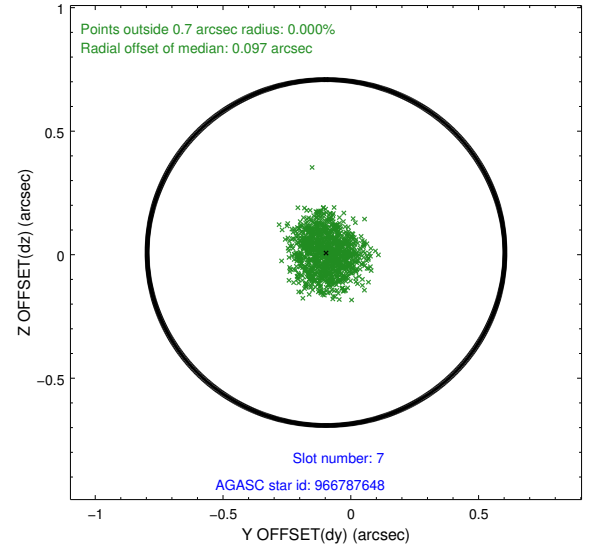
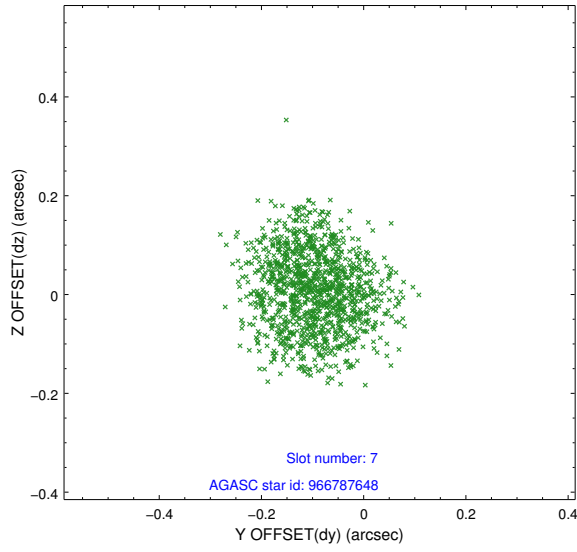
2.4.3 Slot 5



2.4.4 Slot 6

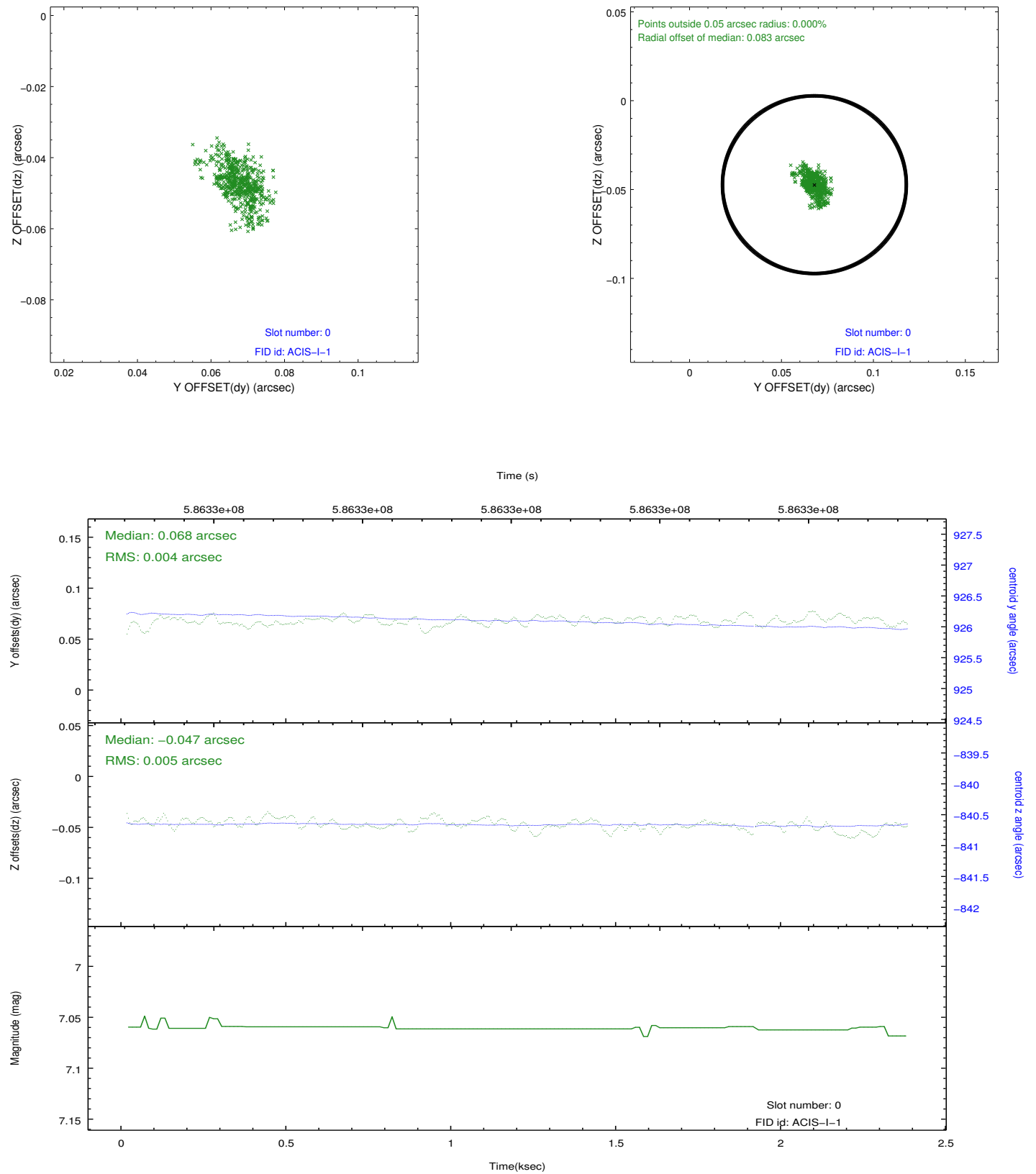


2.4.5 Slot 7

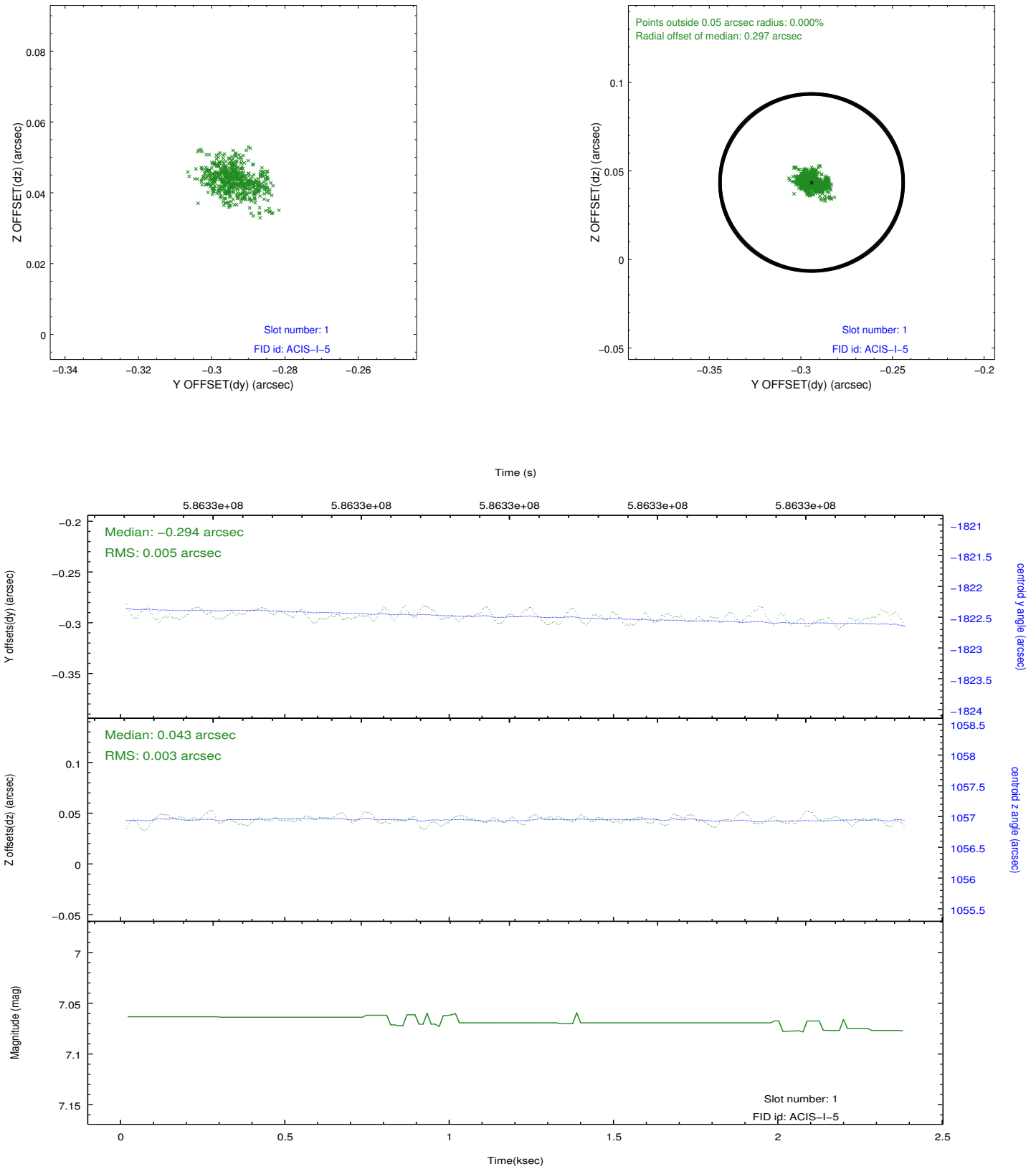


2.5 FID Slots

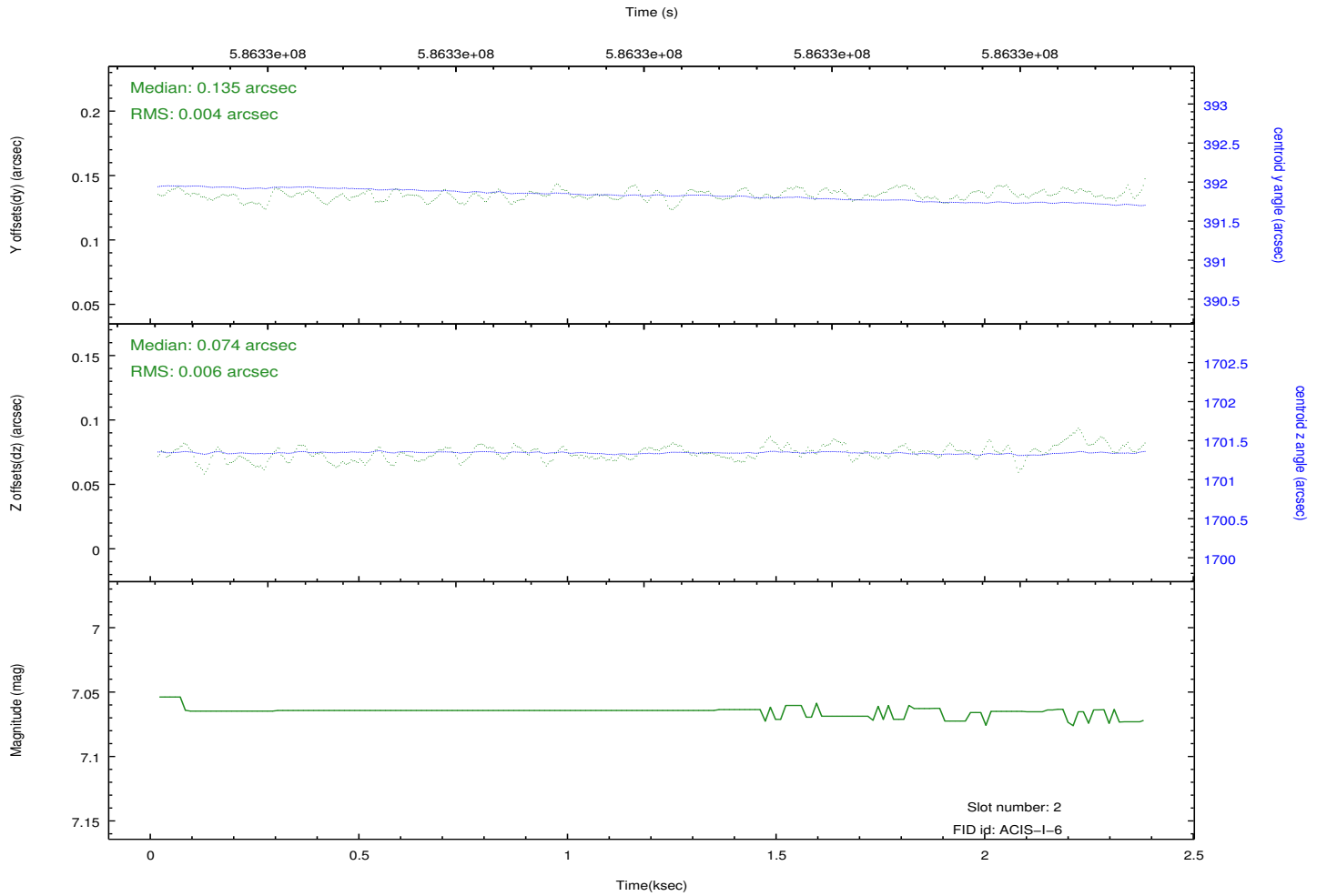
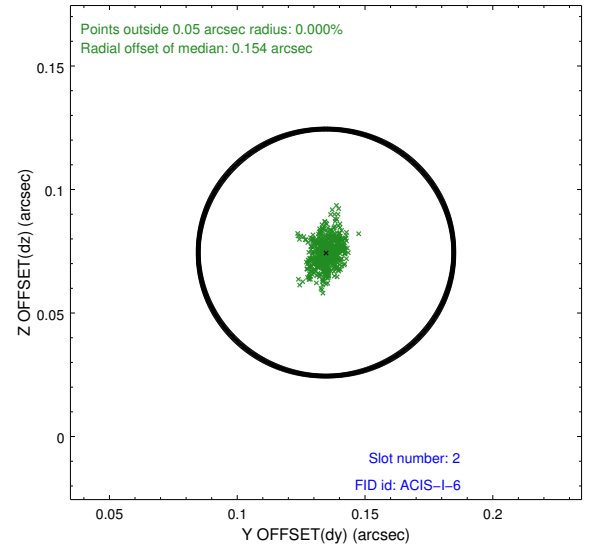
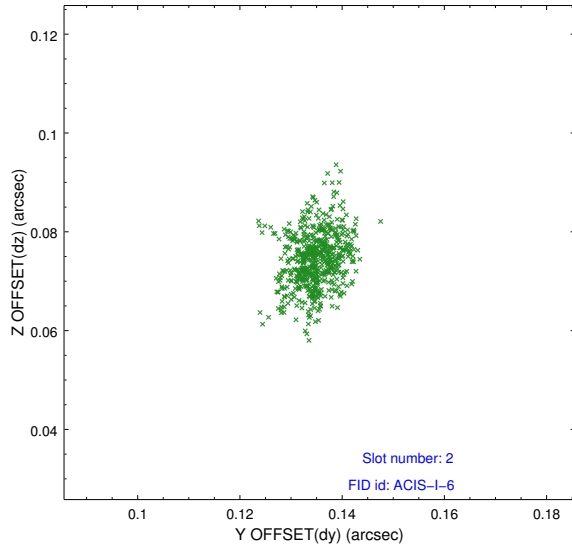
2.5.1 Slot 0



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)	2016.08.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9555615816116

A.2 Comments