

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13256 - L2 Version 2
Chandra X-Ray Center

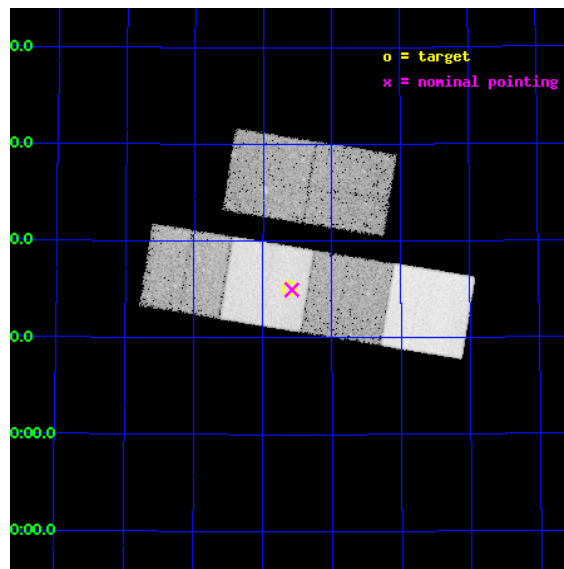
L2 Processing Date : Feb 8 2012

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1 Front

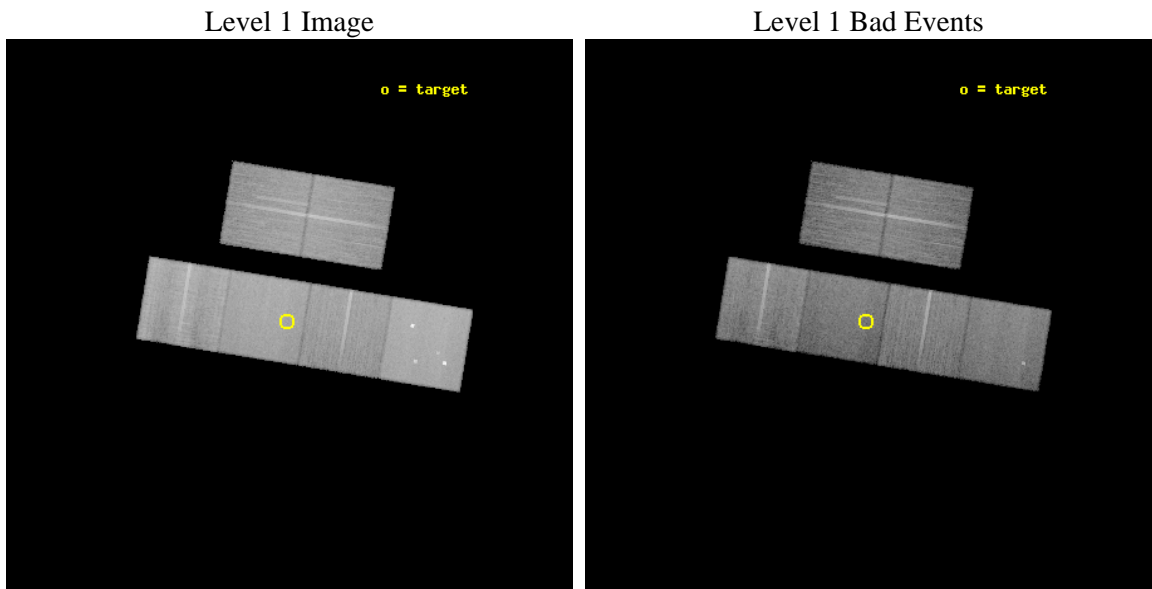
seq_num	501452	Sequence number
obs_id	13256	Observation id
title	Jet-breaks in short GRBs	Proposal title
observer	Dr. Eleonora Troja	Principal investigator
object	GRB110402A	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	197.402667	Observer's specified target RA [deg]
dec_targ	61.252694	Observer's specified target Dec [deg]
ra_nom	197.39507049594	Nominal RA [deg]
dec_nom	61.249527213626	Nominal Dec [deg]
roll_nom	189.26328697923	Nominal Roll [deg]
revision	2	Processing version of data
ontime	27052.531094432	Sum of GTIs [s]
livetime	26709.975656636	Livetime [s]
ontime2	27052.572134435	Sum of GTIs [s]
ontime3	27045.92601347	Sum of GTIs [s]
ontime5	27052.490054429	Sum of GTIs [s]
ontime6	27052.449014425	Sum of GTIs [s]
ontime7	27052.531094432	Sum of GTIs [s]
ontime8	27045.884963691	Sum of GTIs [s]
l2events	292199	Number of level 2 events



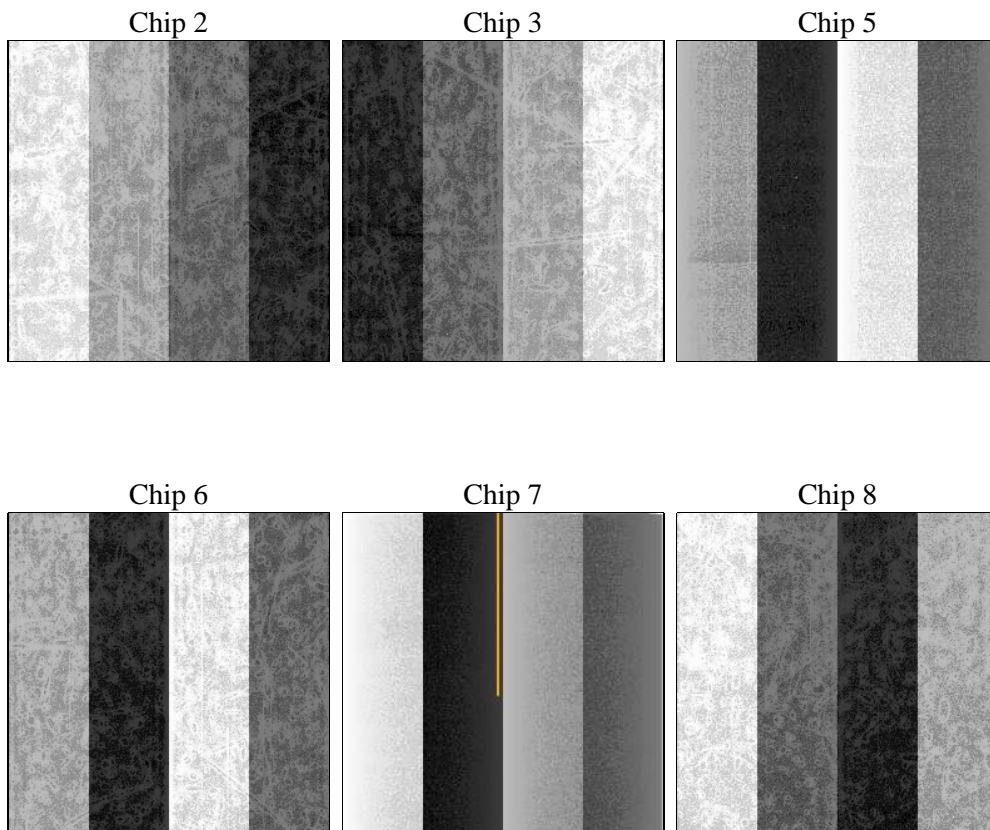
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	27052.531094432	Sum of GTIs [s]
caldbver	4.4.7	 	ontime2	27052.572134435	Sum of GTIs [s]
date	2012-02-08T06:49:18	Date and time of file creation	ontime3	27045.92601347	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	27052.490054429	Sum of GTIs [s]
			ontime6	27052.449014425	Sum of GTIs [s]
			ontime7	27052.531094432	Sum of GTIs [s]
			ontime8	27045.884963691	Sum of GTIs [s]
			l1events	1255640	Number of level 1 events

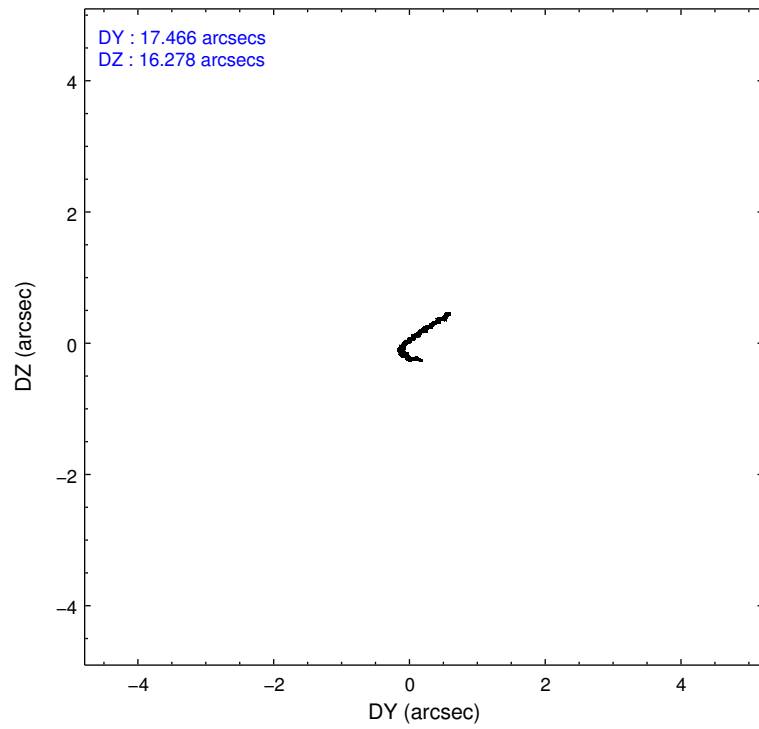
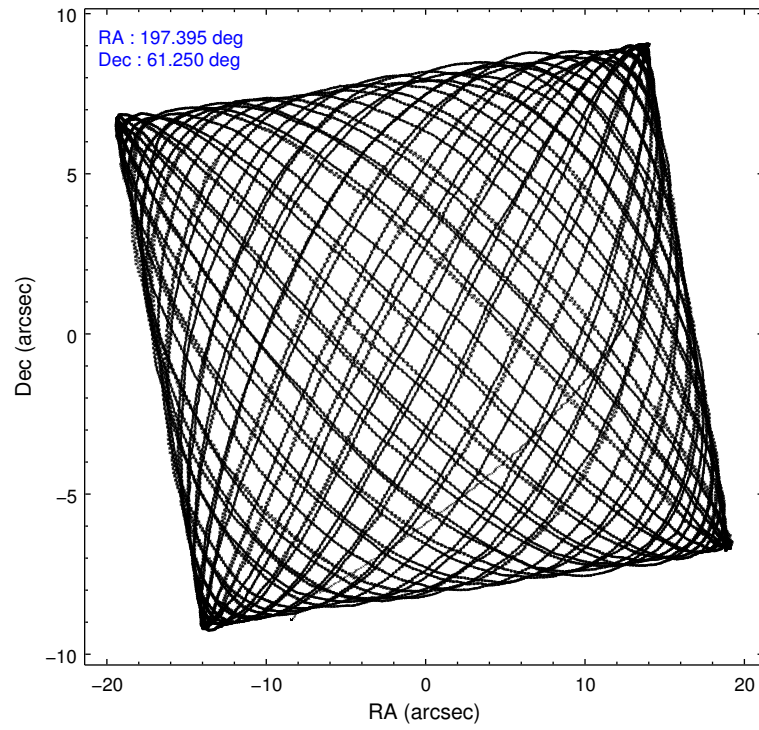
2.1.4 Events

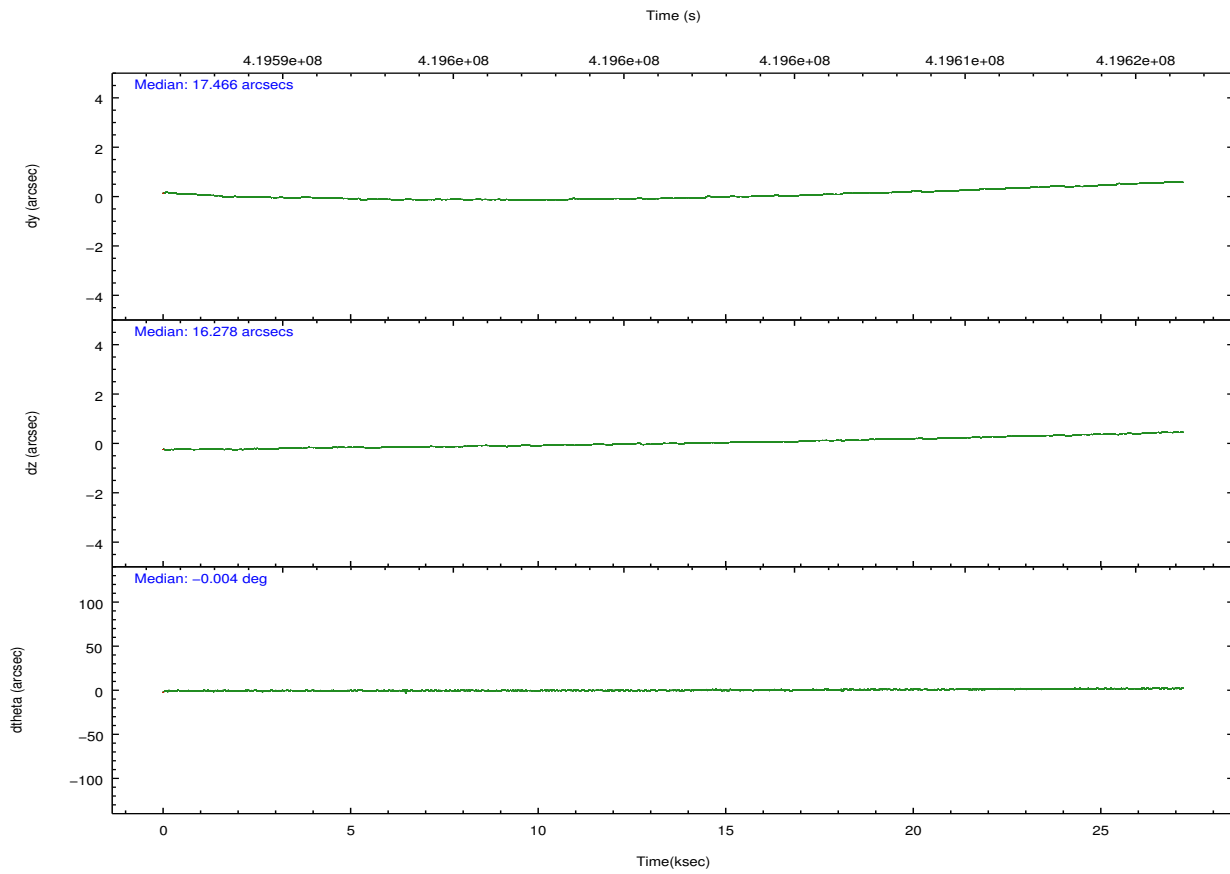
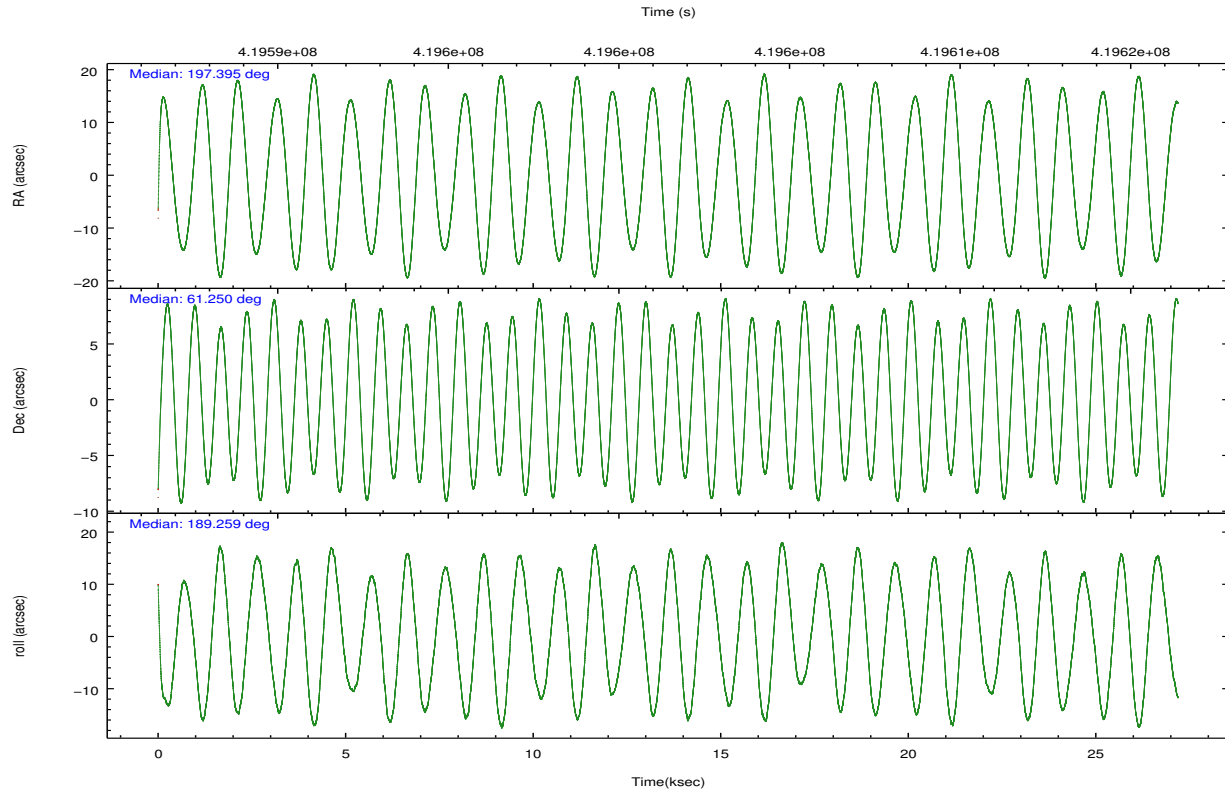
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	176777	169481	281438	176013	219582	232349	grade 0 events	6771	6829	17663	7052	8916	17397
rejected events	157587	150885	140540	155545	121306	172601		3%	4%	6%	4%	4%	7%
rejected %	89%	89%	49%	88%	55%	74%	grade 1 events	93	121	659	79	276	175
								0%	0%	0%	0%	0%	0%
							grade 2 events	4642	4106	42804	4652	20097	14314
								2%	2%	15%	2%	9%	6%
							grade 3 events	2067	1960	4729	2007	8658	6205
								1%	1%	1%	1%	3%	2%
							grade 4 events	2082	1983	4645	2182	8518	5858
								1%	1%	1%	1%	3%	2%
							grade 5 events	6976	7999	20724	8275	22846	12259
								3%	4%	7%	4%	10%	5%
							grade 6 events	3632	3723	71073	4583	52098	15993
								2%	2%	25%	2%	23%	6%
							grade 7 events	150514	142760	119141	147183	98173	160148
								85%	84%	42%	83%	44%	68%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	197.438588	197.3950704959424	CCD I2 on	O1	Y
[deg] Pointing Dec	61.267104	61.24952721362585	CCD I3 on	O2	Y
[deg] Pointing Roll	189.068506	189.2632869792348	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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)	419588029.184000	419586945.46964	CCD S5 on	N	N
Observation start date	2011-04-19T08:12:43	2011-04-19T07:55:45	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	419615029.184000	419615627.02113	On-chip summing requested	N	N
Observation end date	2011-04-19T15:42:43	2011-04-19T15:53:47	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



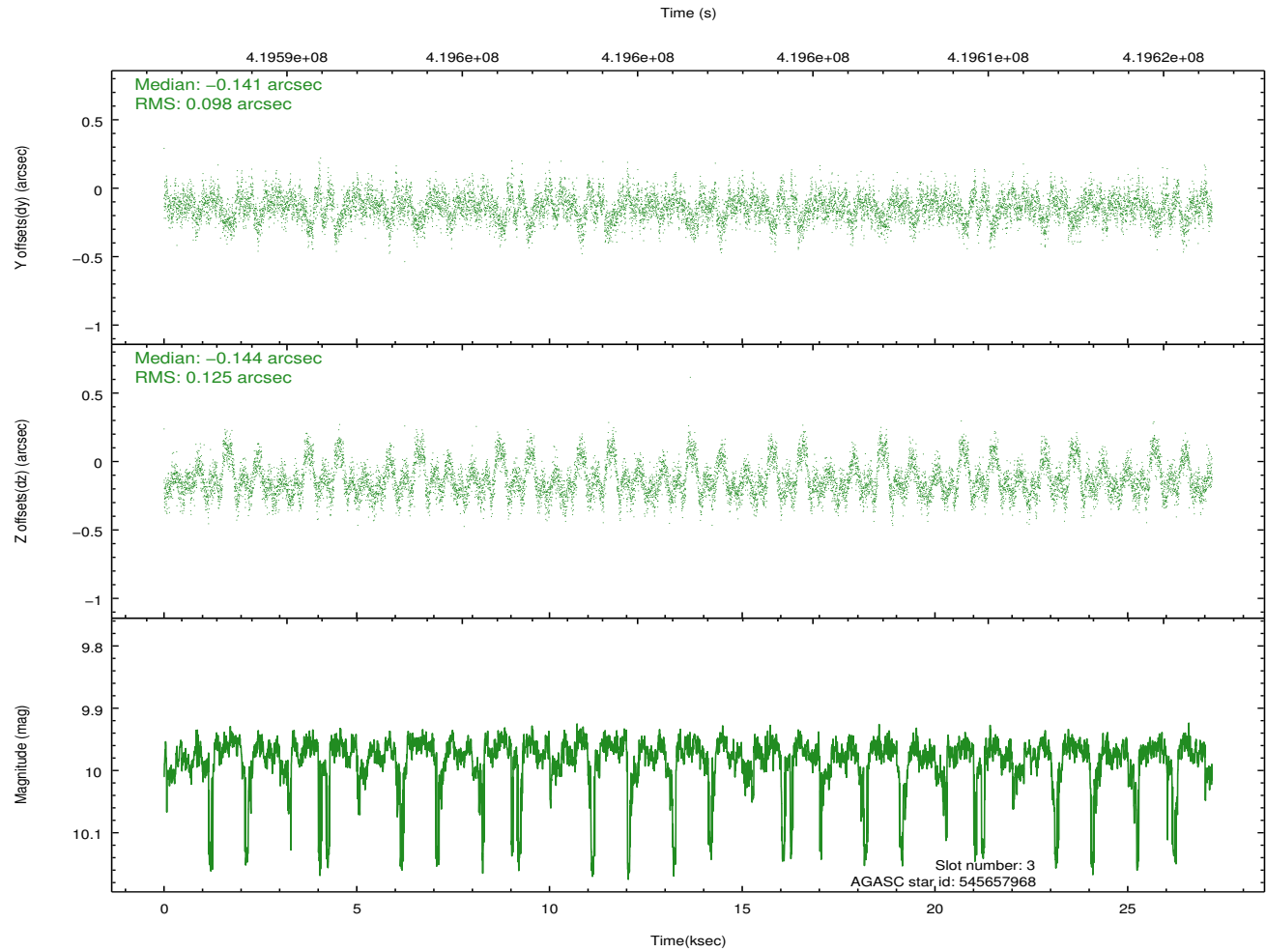
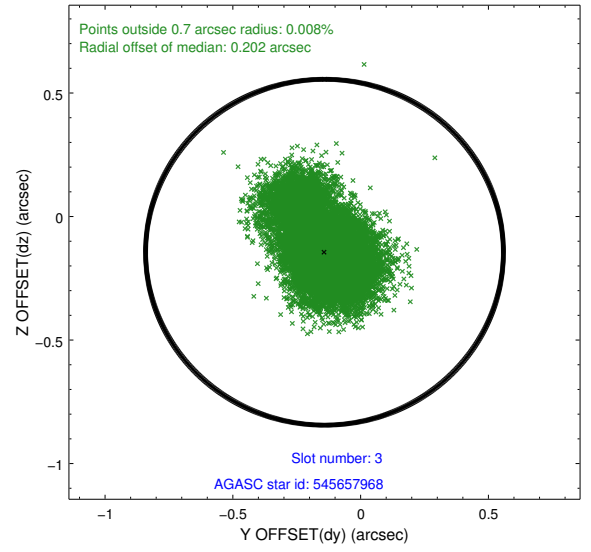
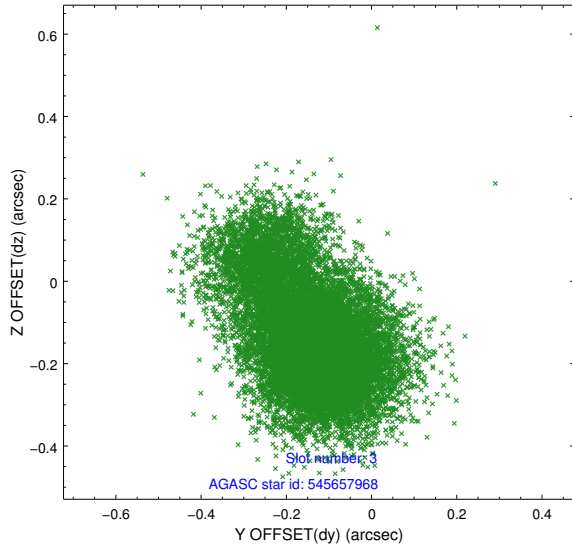


Slot Statistics

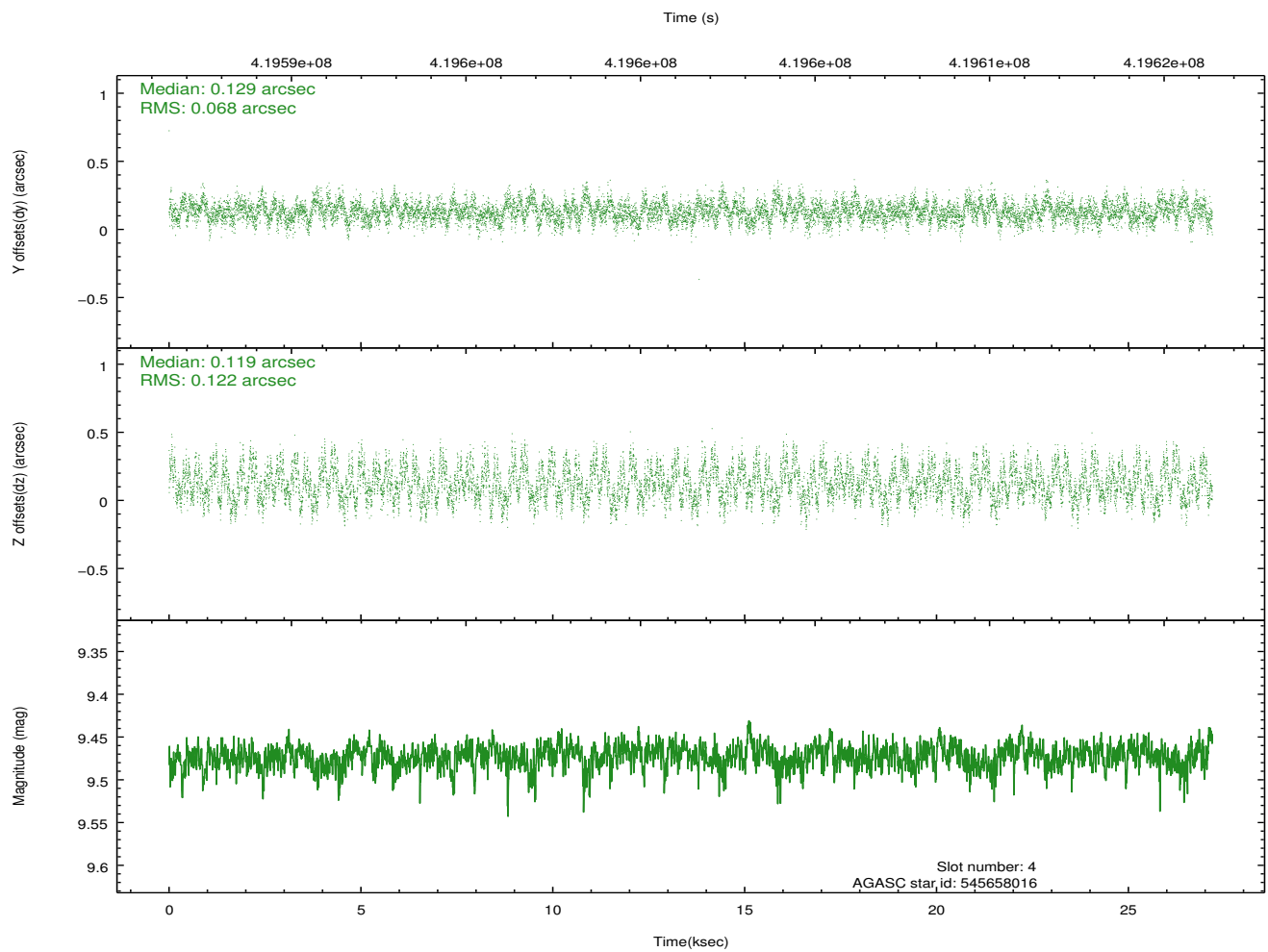
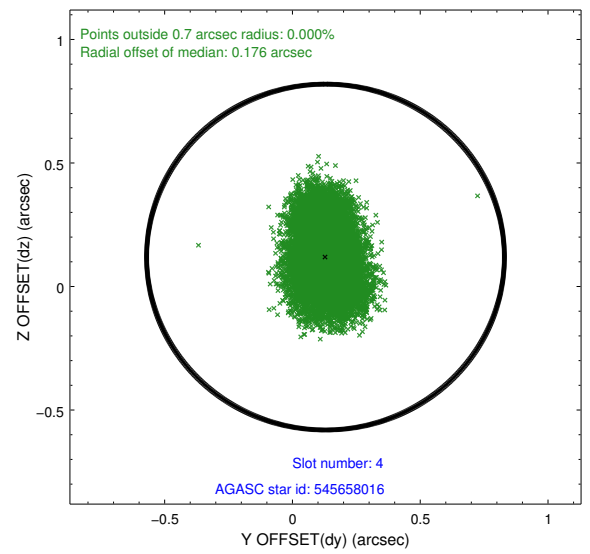
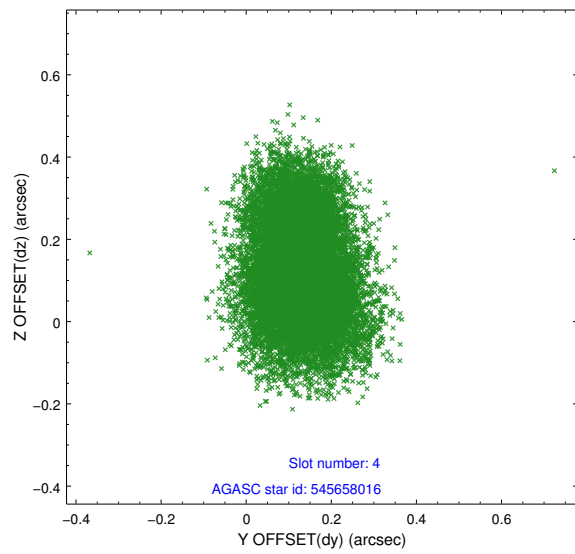
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.94	6632	-0.077	-0.008	0.009	0.015	0.000000	0.000000	-770.66	-1737.69
1	FID	ACIS-S-4	7.02	6631	0.185	0.039	0.009	0.018	0.000000	0.000000	2142.83	170.75
2	FID	ACIS-S-5	7.05	6632	-0.137	-0.023	0.011	0.029	0.000000	0.000000	-1823.44	164.46
3	GUIDE	545657968	9.98	13162	-0.141	-0.144	0.165	0.290	196.517873	60.563712	2005.72	2232.86
4	GUIDE	545658016	9.47	13242	0.129	0.119	0.150	0.240	197.493764	61.778515	-381.85	-1802.38
5	GUIDE	545658224	8.74	13258	0.036	-0.006	0.085	0.134	198.640725	60.748548	-1796.96	2157.49
6	GUIDE	545661040	9.50	13205	0.010	0.134	0.112	0.180	197.220924	61.275648	367.60	-89.00
7	GUIDE	545661232	8.08	13261	-0.035	-0.120	0.075	0.114	196.312964	60.860518	2176.64	1117.68

2.4 Star Slots

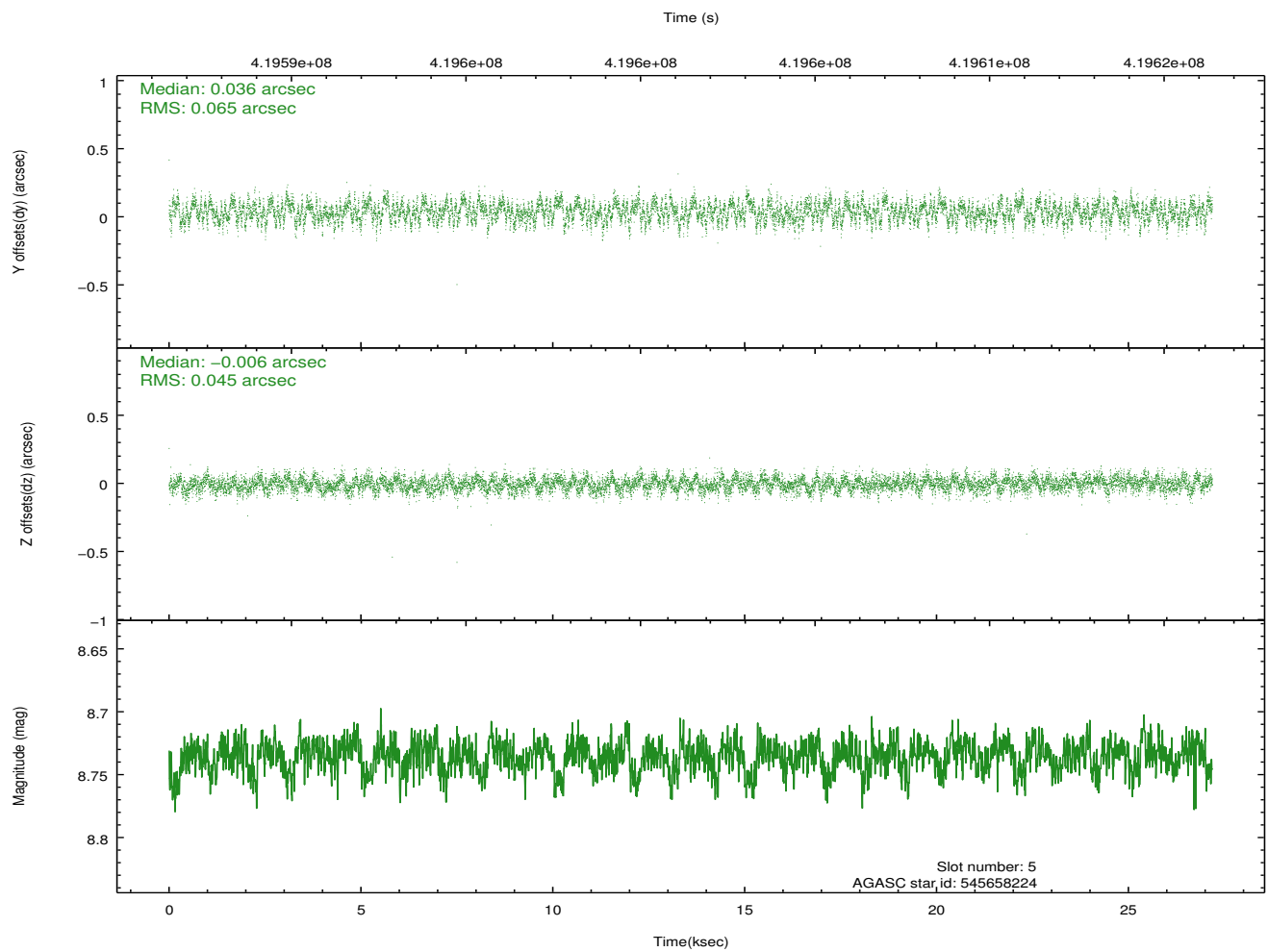
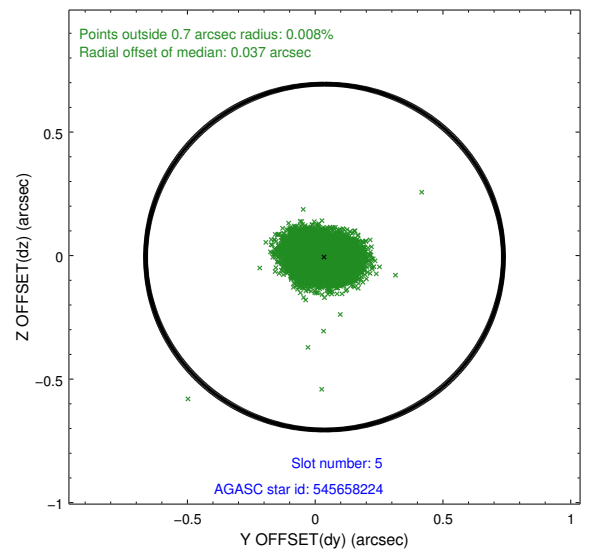
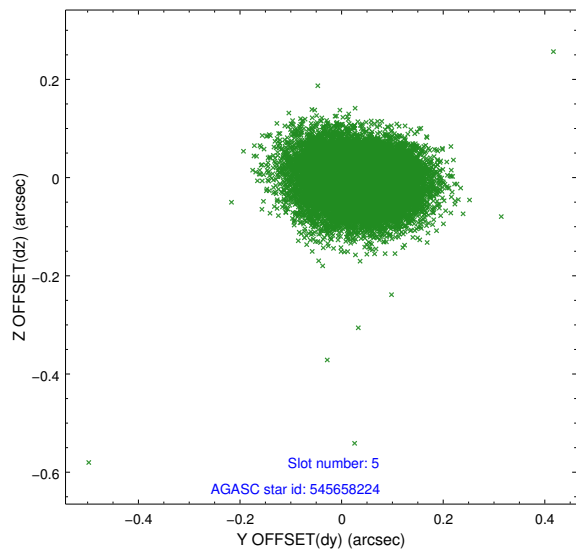
2.4.1 Slot 3



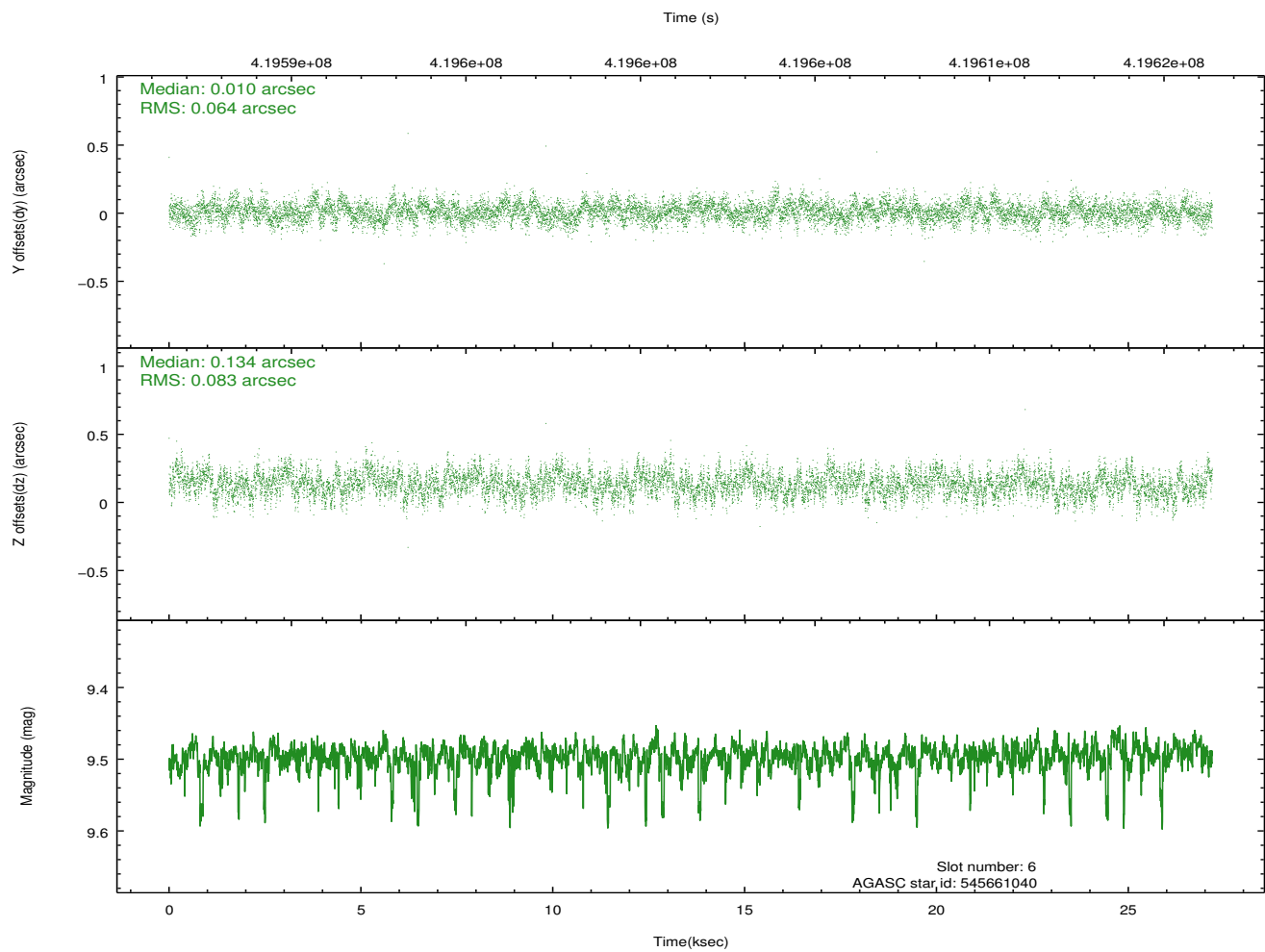
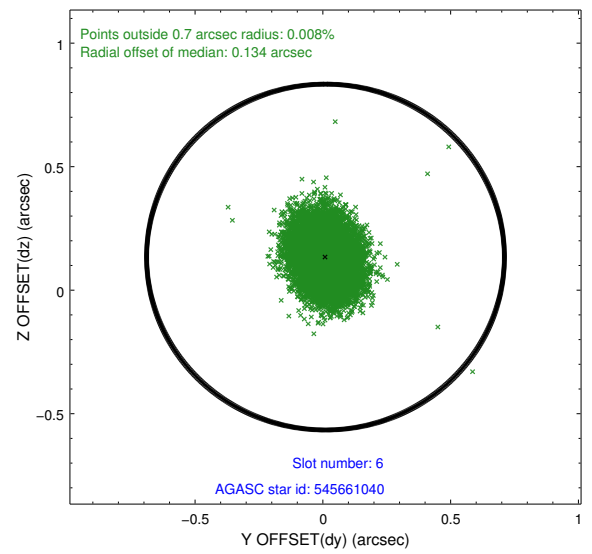
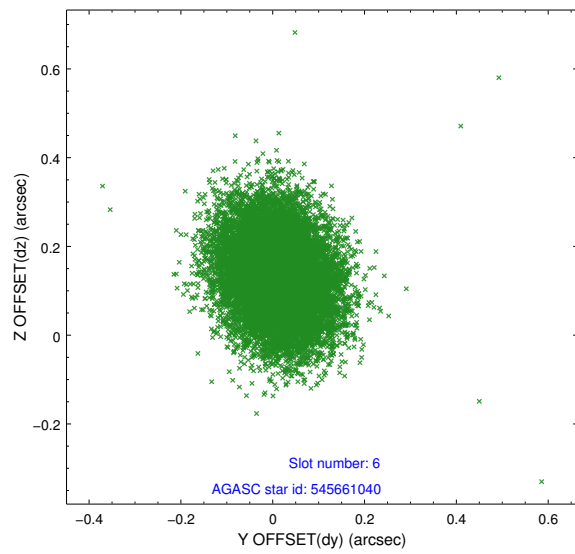
2.4.2 Slot 4



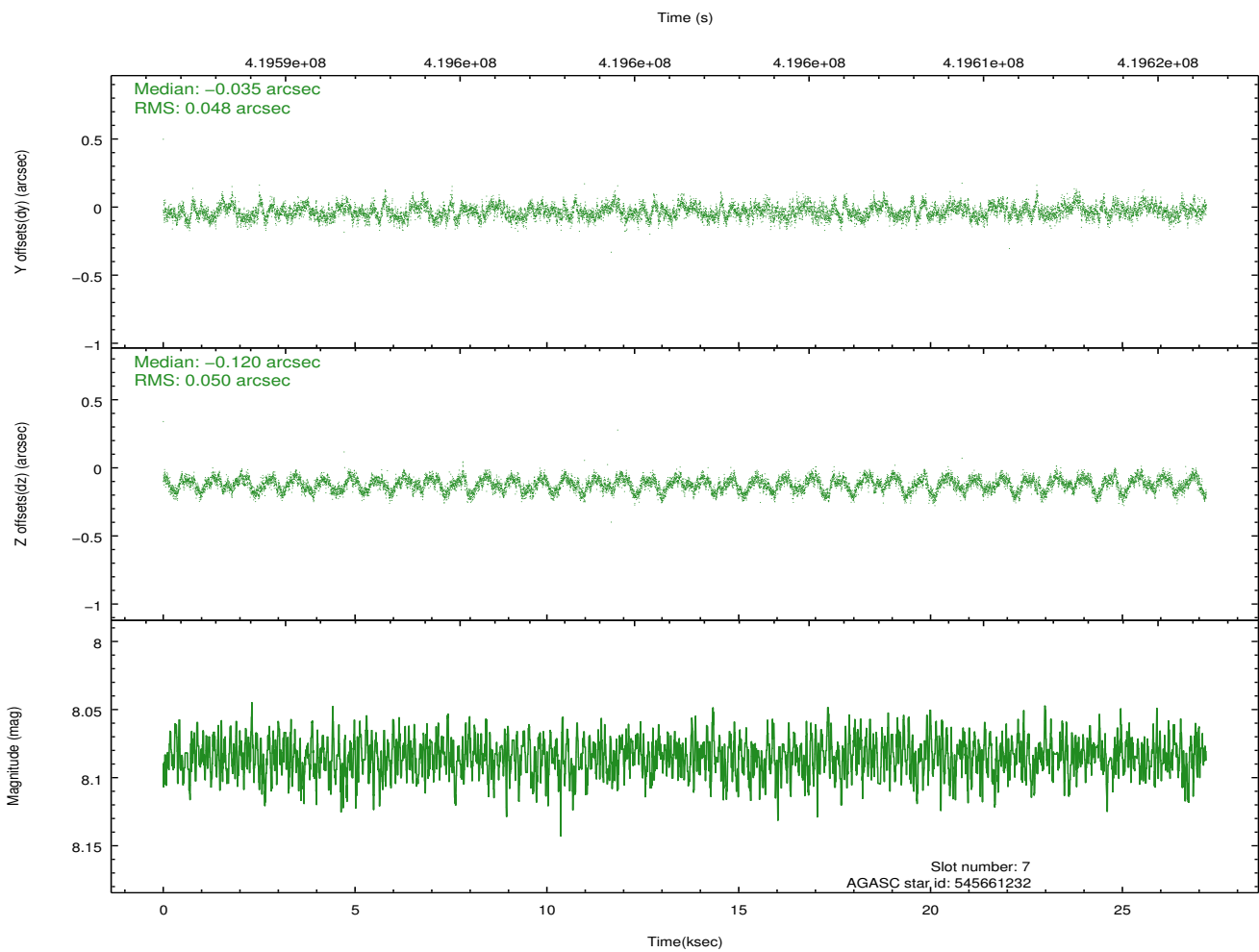
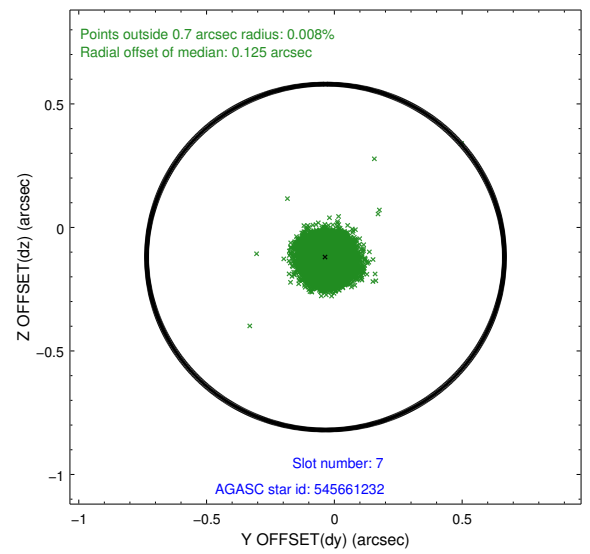
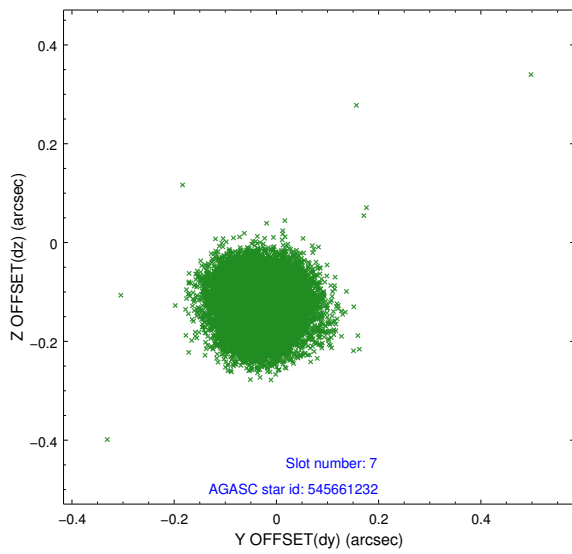
2.4.3 Slot 5



2.4.4 Slot 6

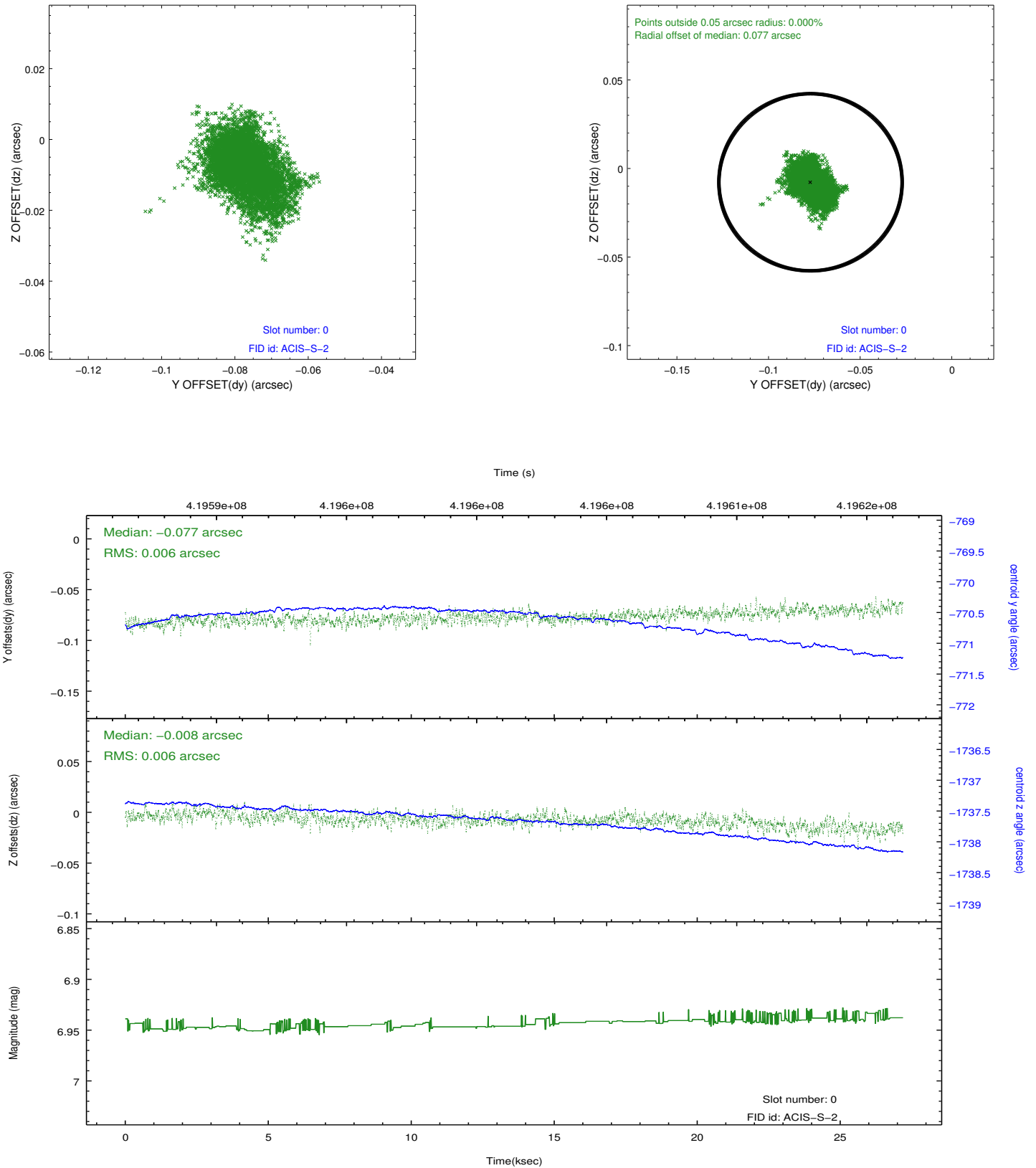


2.4.5 Slot 7

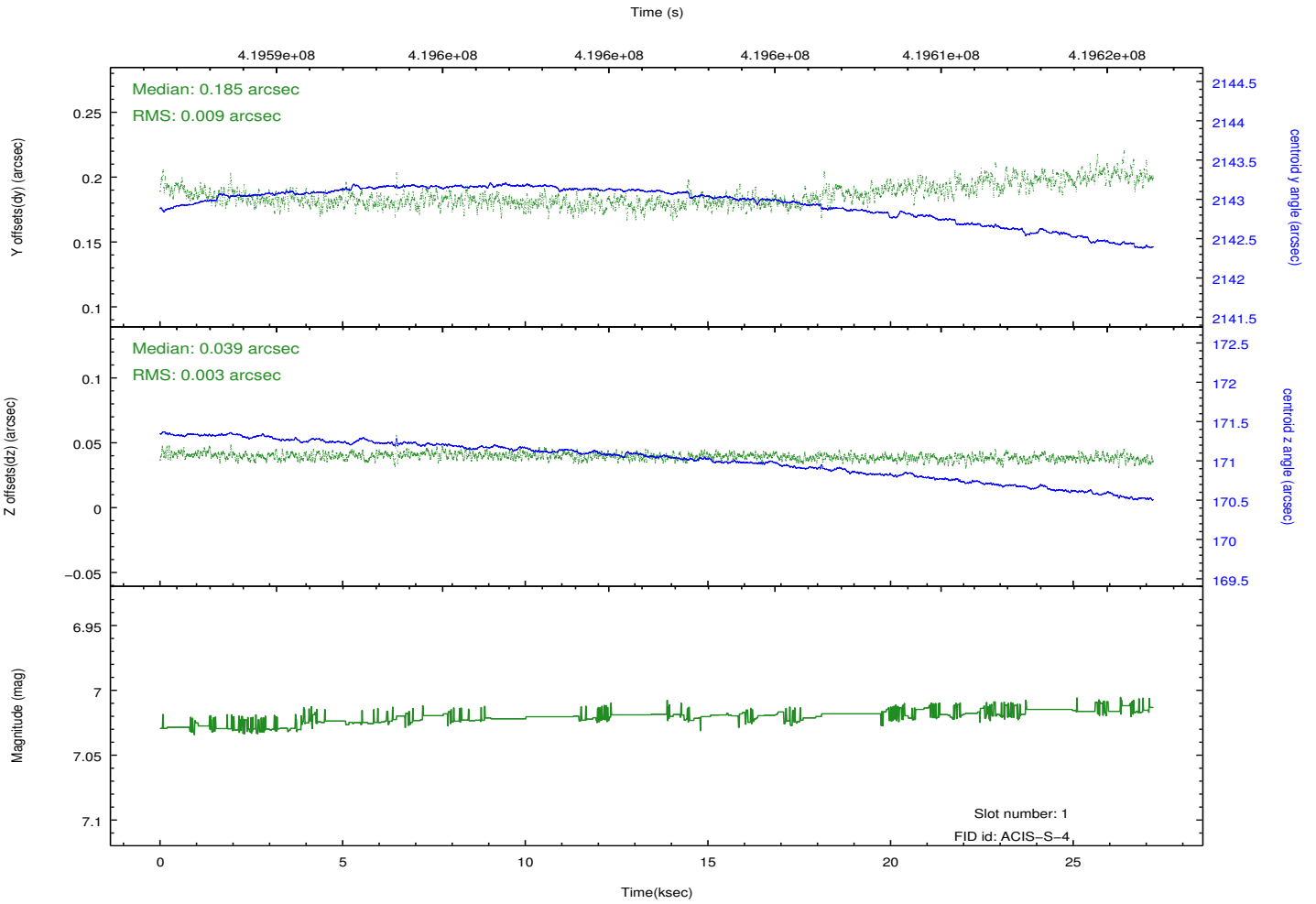
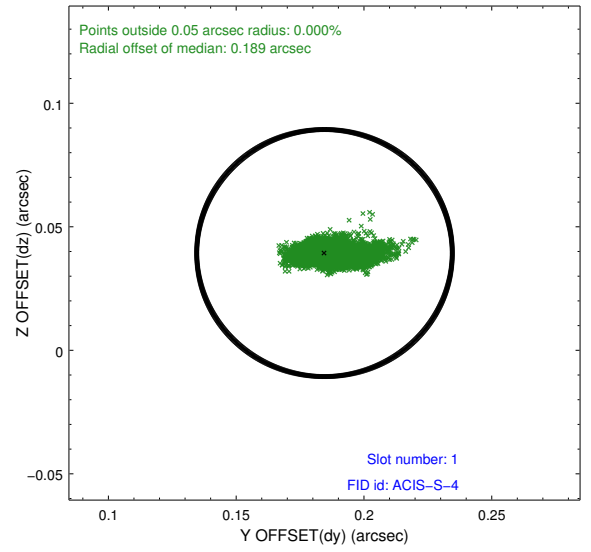
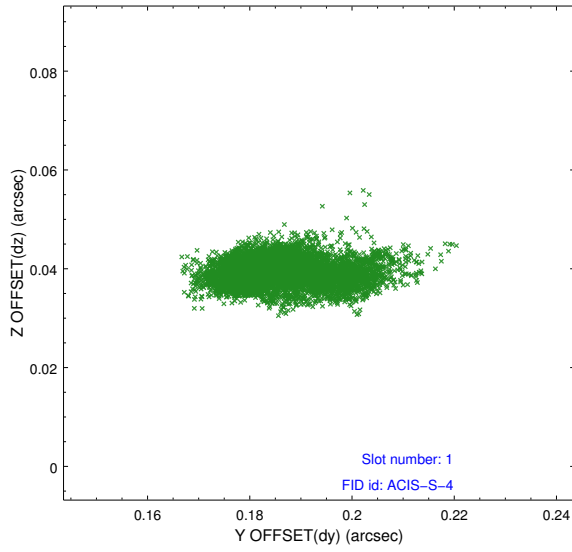


2.5 FID Slots

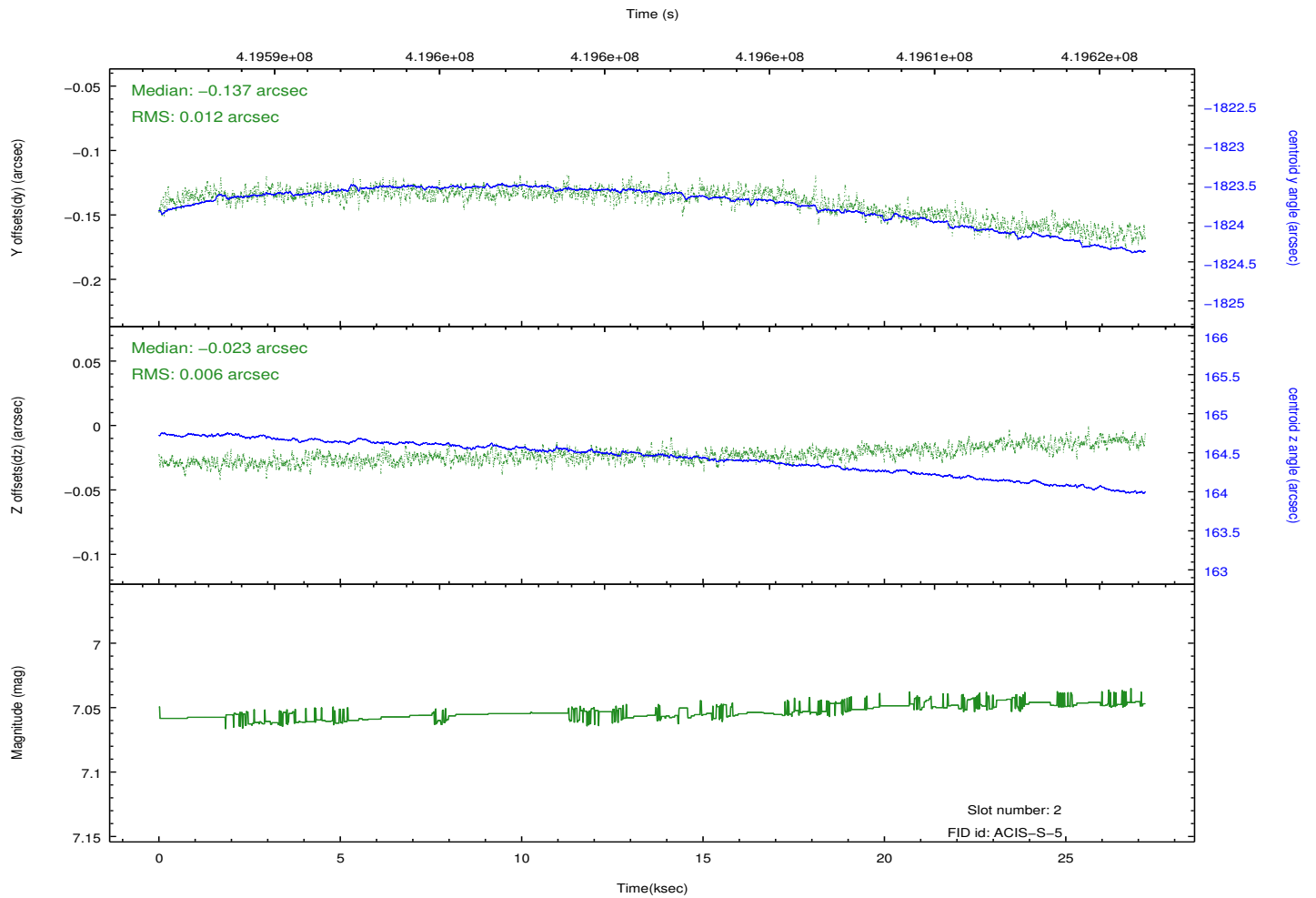
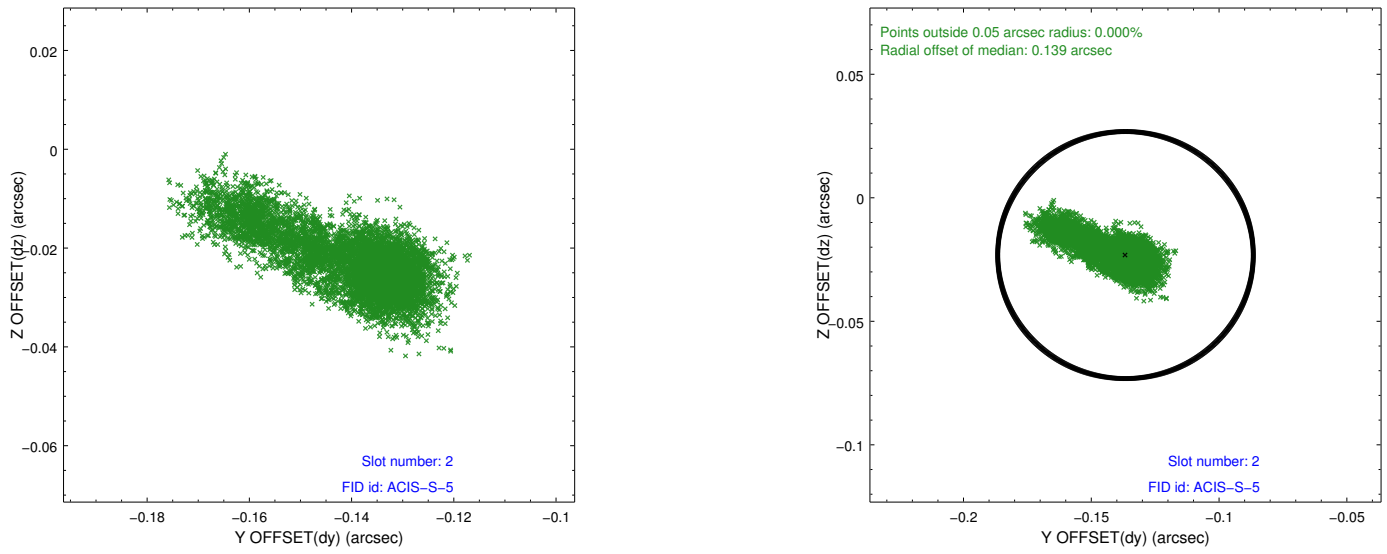
2.5.1 Slot 0



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)	2012.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.052531092048

A.2 Comments

The data for this observation have been processed using the 'EDSER' sub-pixel event-repositioning algorithm of Li et al. (2004, ApJ, 610, 1204). Small-scale features should become sharper for sources near the aim point. The improvement will be less noticeable for off-axis sources where the size of the point-spread function is comparable to or larger than the size of an ACIS pixel. To take full advantage of the improvement, images should be binned on spatial scales smaller than the size of an ACIS pixel. Note that, at present, the point-spread function has not been calibrated for data to which the EDSER algorithm has been applied. If dither was disabled for the observation, then the algorithm can introduce artificial aliasing effects on spatial scales smaller than a pixel. If you would prefer to use no sub-pixel adjustment or to apply a coordinate randomization, then use `acis_process_events` to reprocess the data with the parameter `pix_adj=NONE` or `RANDOMIZE`, respectively.

=====

Monitor constraint met.