

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 4031 - L2 Version 3
Chandra X-Ray Center

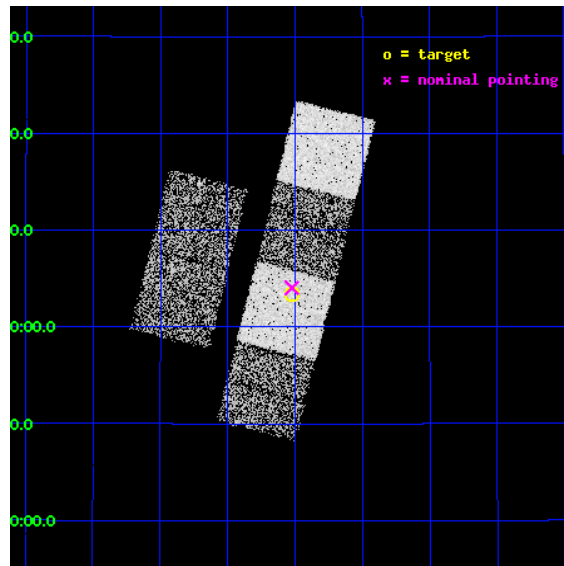
L2 Processing Date : Jan 4 2013

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1 Front

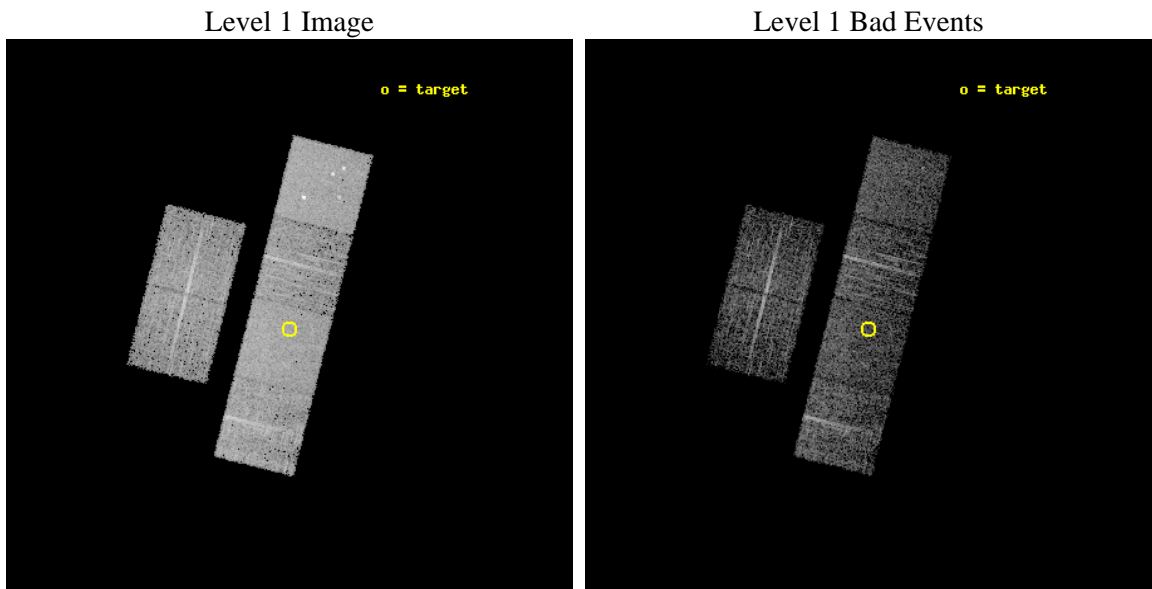
seq_num	700710	Sequence number
obs_id	4031	Observation id
title	WHY DO WE SEE BROAD LINES IN X-RAY ABSORBED AGN?	Proposal title
observer	Dr. Belinda Wilkes	Principal investigator
object	2MASS012031+2003	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	20.131667	Observer's specified target RA [deg]
dec_targ	20.05775	Observer's specified target Dec [deg]
ra_nom	20.130877410524	Nominal RA [deg]
dec_nom	20.067420201206	Nominal Dec [deg]
roll_nom	104.08082240944	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4552.6172195673	Sum of GTIs [s]
livetime	4494.9692390762	Livetime [s]
ontime2	4552.6582595706	Sum of GTIs [s]
ontime3	4552.4940995574	Sum of GTIs [s]
ontime5	4552.576179564	Sum of GTIs [s]
ontime6	4552.5351395607	Sum of GTIs [s]
ontime7	4552.6172195673	Sum of GTIs [s]
ontime8	4552.4530595839	Sum of GTIs [s]
l2events	43137	Number of level 2 events



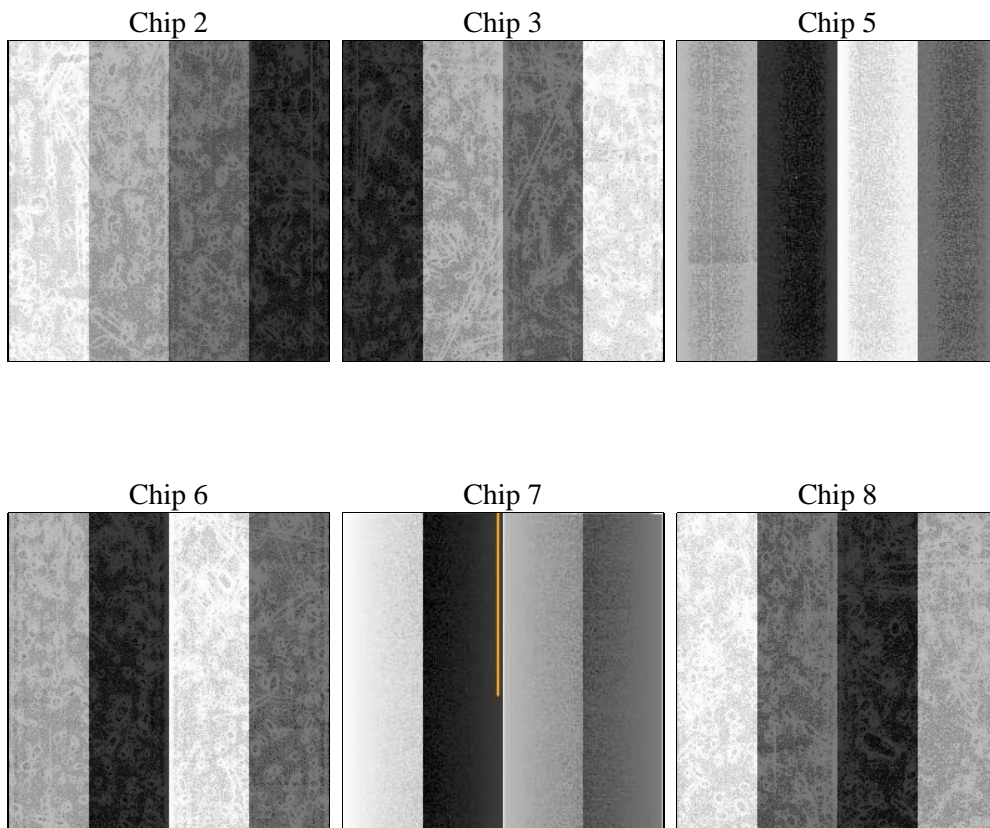
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4600.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	4552.6172195673	Sum of GTIs [s]
caldbver	4.5.5	 	ontime2	4552.6582595706	Sum of GTIs [s]
date	2013-01-04T19:20:41	Date and time of file creation	ontime3	4552.4940995574	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4552.576179564	Sum of GTIs [s]
			ontime6	4552.5351395607	Sum of GTIs [s]
			ontime7	4552.6172195673	Sum of GTIs [s]
			ontime8	4552.4530595839	Sum of GTIs [s]
			l1events	193595	Number of level 1 events

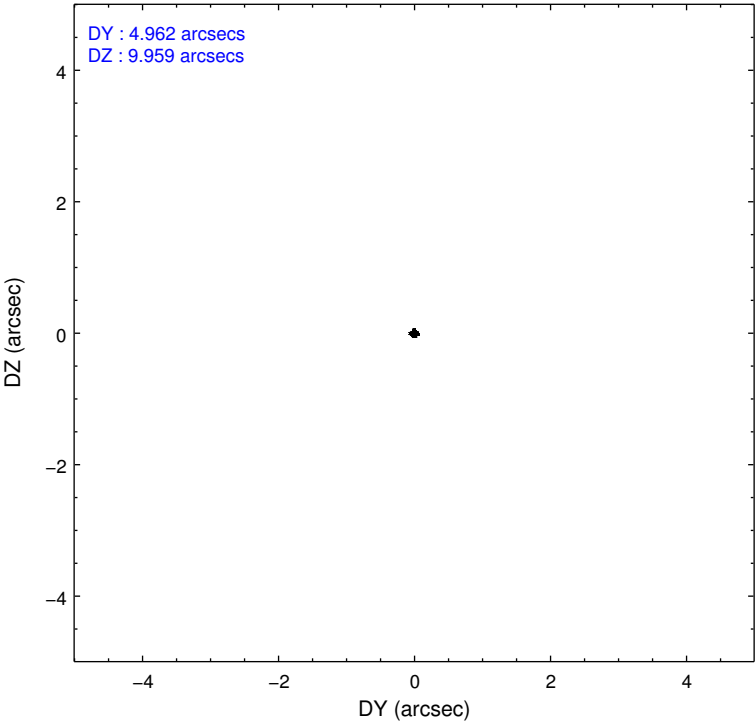
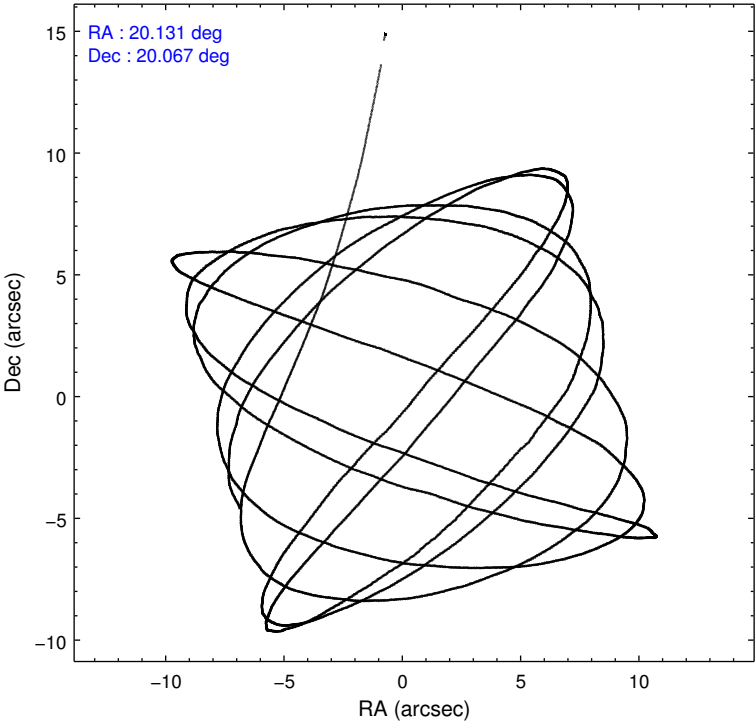
2.1.4 Events

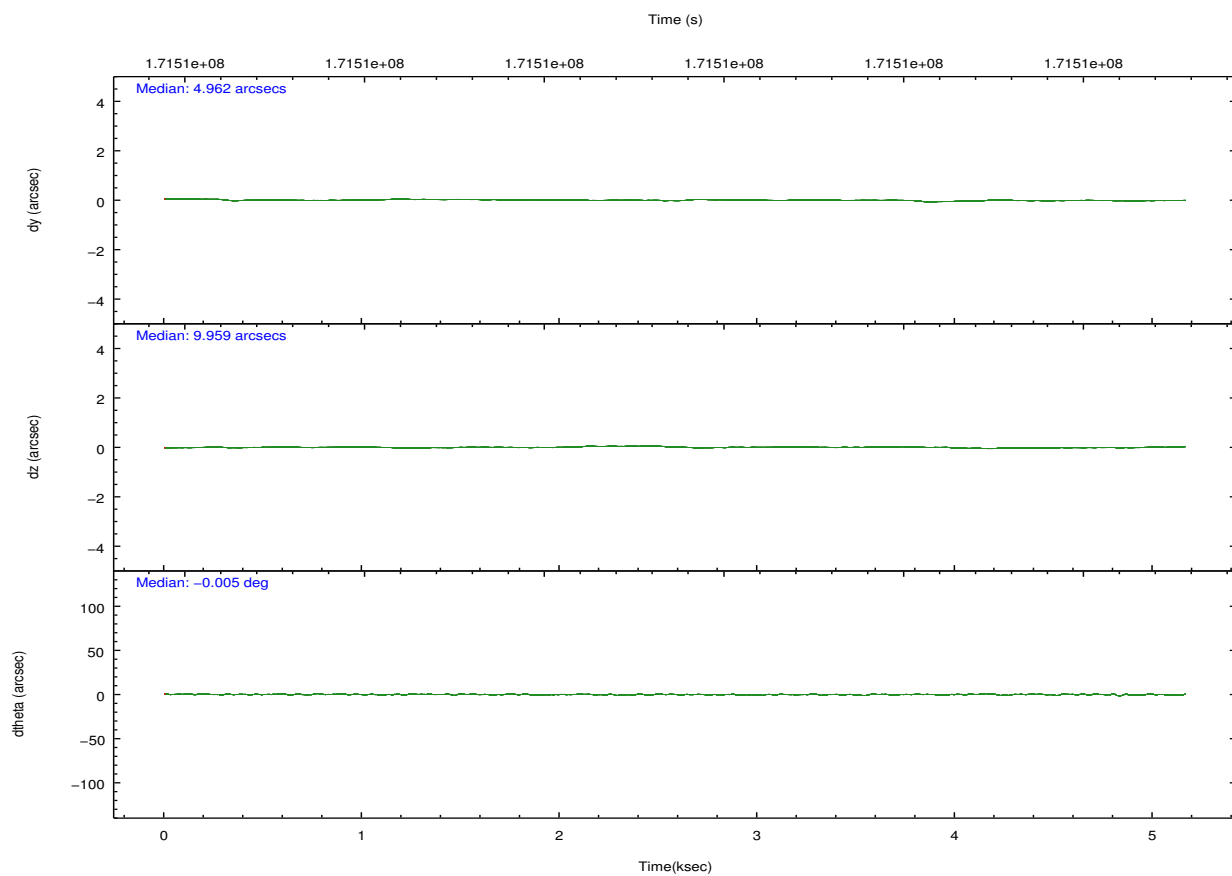
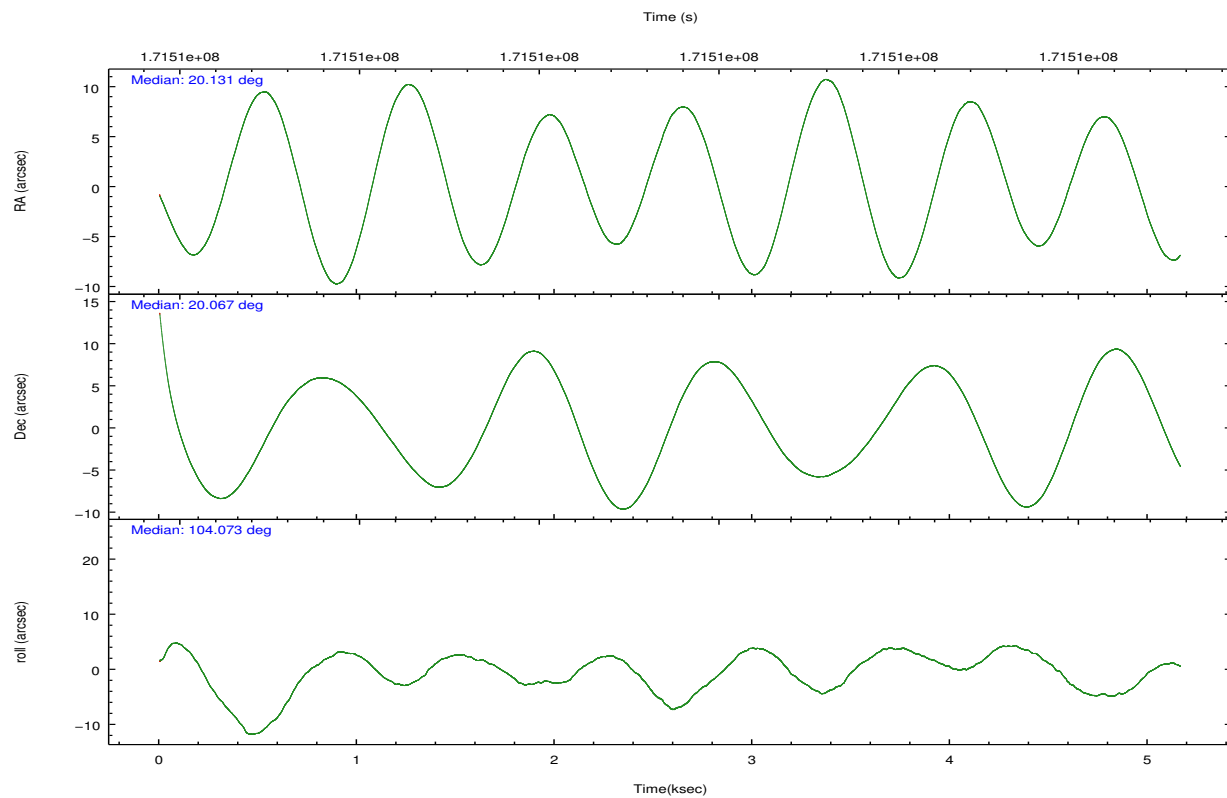
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	27236	25368	41445	28025	36748	34773	grade 0 events	1507	1419	3171	1277	1310	2382
rejected events	23821	22218	21942	24799	21783	27405		5%	5%	7%	4%	3%	6%
rejected %	87%	87%	52%	88%	59%	78%	grade 1 events	9	15	59	18	42	16
								0%	0%	0%	0%	0%	0%
							grade 2 events	702	611	5449	683	2941	1699
								2%	2%	13%	2%	8%	4%
							grade 3 events	354	307	724	310	1294	724
								1%	1%	1%	1%	3%	2%
							grade 4 events	311	297	719	297	1263	713
								1%	1%	1%	1%	3%	2%
							grade 5 events	1127	1203	3007	1291	3439	1595
								4%	4%	7%	4%	9%	4%
							grade 6 events	541	519	9440	663	8167	1850
								1%	2%	22%	2%	22%	5%
							grade 7 events	22685	20997	18876	23486	18292	25794
								83%	82%	45%	83%	49%	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	20.151401	20.13087741052439	Subarray requested	NONE	NONE
[deg] Pointing Dec	20.048095	20.06742020120574	Alternating exposures requested	N	N
[deg] Pointing Roll	103.917164	104.0808224094351	[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)	171508726.184000	171507572.75874			
Observation start date	2003-06-09T01:17:42	2003-06-09T00:59:32			
[s] Observation end time (MET)	171513326.184000	171514370.55903			
Observation end date	2003-06-09T02:34:22	2003-06-09T02:52:50			
Read mode	TIMED	TIMED			

2.3 Aspect



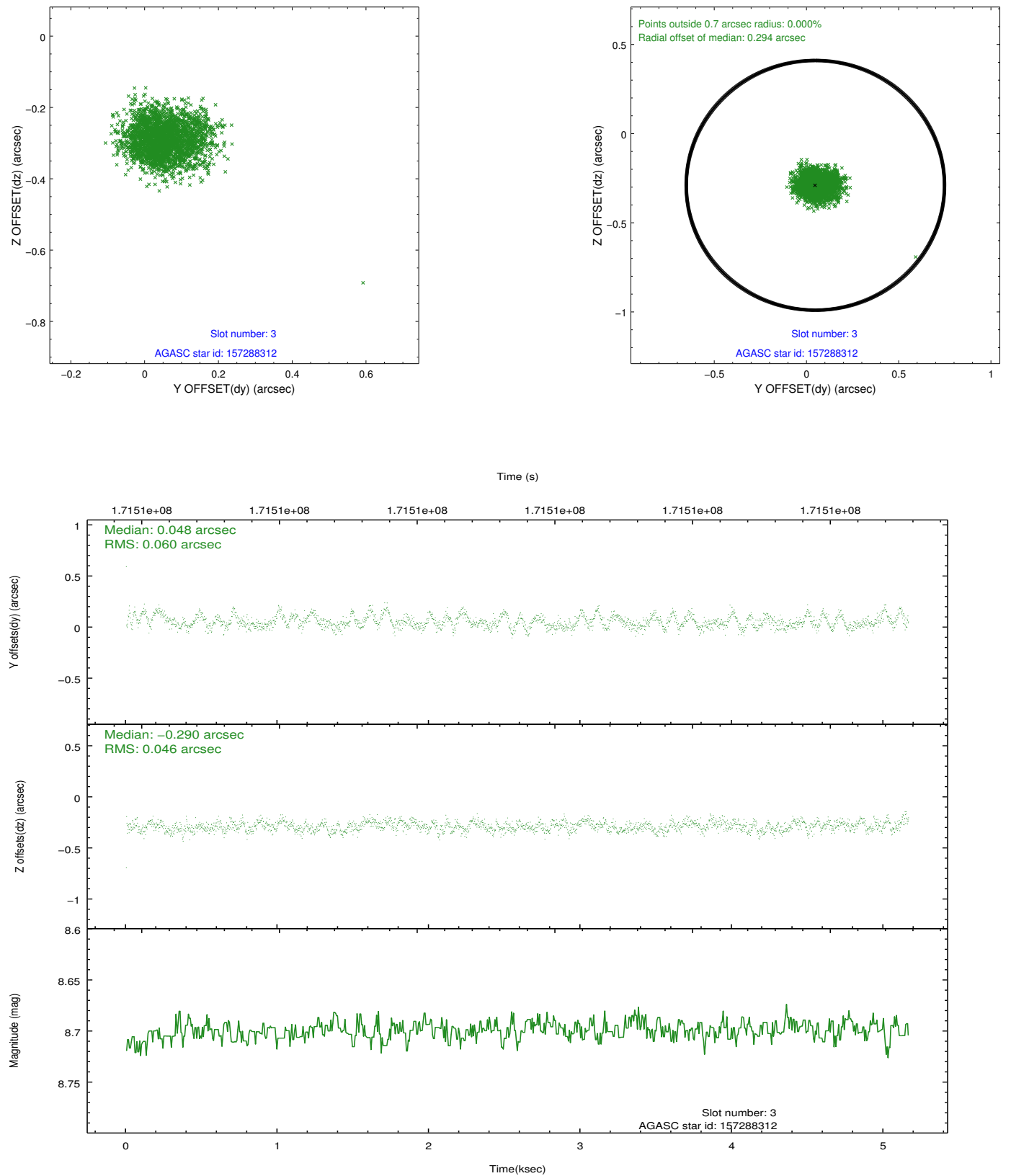


Slot Statistics

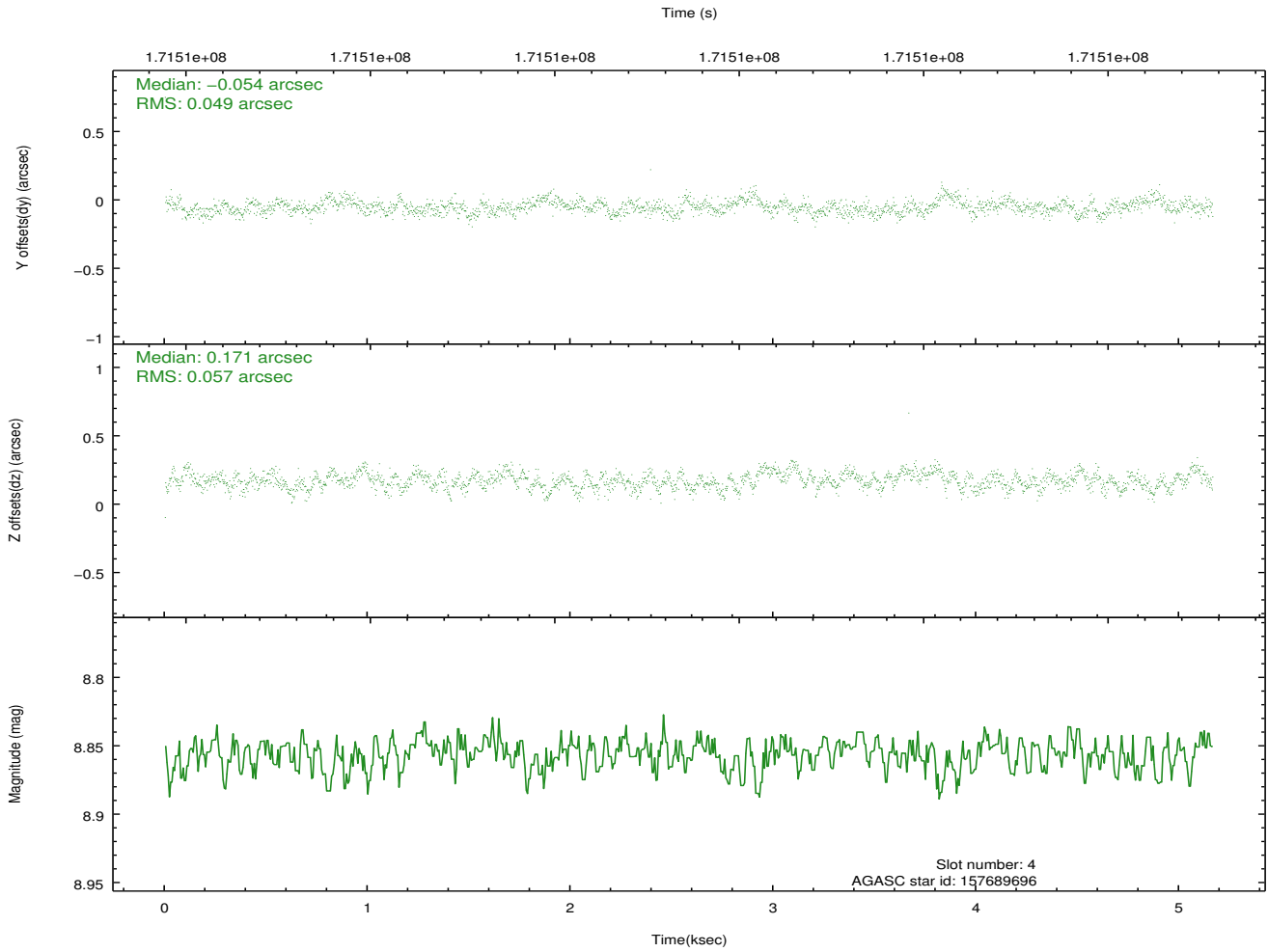
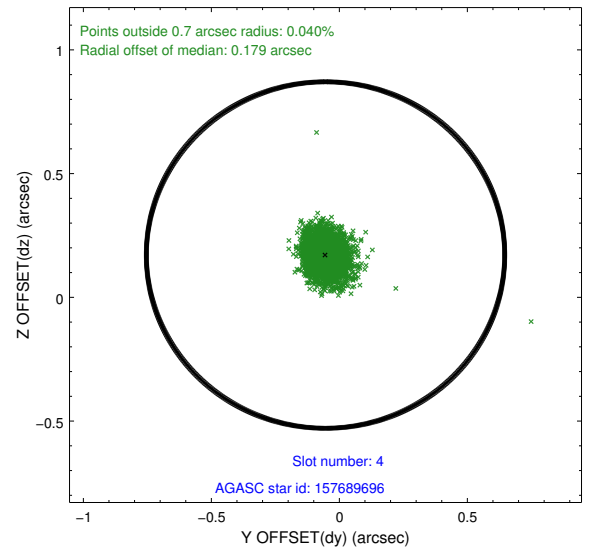
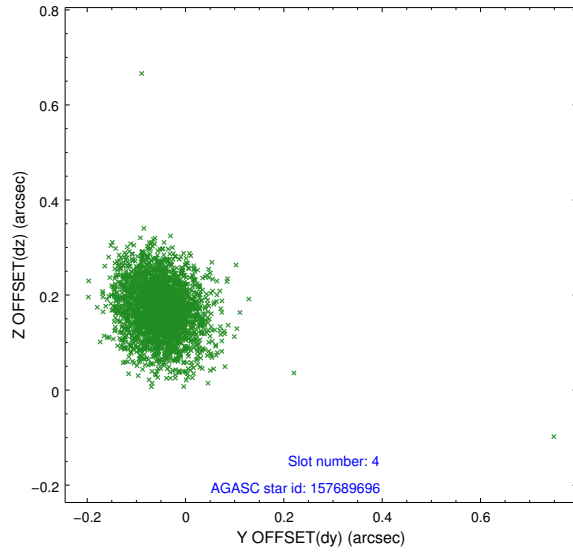
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1260	-0.058	-0.021	0.007	0.012	0.000000	0.000000	-757.69	-1731.18
1	FID	ACIS-S-4	7.20	1260	0.078	0.033	0.006	0.010	0.000000	0.000000	2155.16	176.18
2	FID	ACIS-S-5	7.23	1260	-0.051	-0.004	0.007	0.013	0.000000	0.000000	-1809.04	171.09
3	GUIDE	157288312	8.70	2519	0.048	-0.290	0.079	0.129	19.706255	19.288860	-2287.50	2124.67
4	GUIDE	157689696	8.86	2519	-0.054	0.171	0.077	0.127	20.676088	20.258732	312.00	-1901.90
5	GUIDE	157691632	9.45	2516	-0.115	0.126	0.086	0.138	20.564337	20.358448	751.28	-1622.49
6	GUIDE	157692544	9.05	2519	-0.143	-0.158	0.070	0.113	19.789453	20.423886	1608.33	859.10
7	GUIDE	157289008	9.72	2517	0.255	0.150	0.094	0.153	20.384615	19.447259	-2288.37	-248.18

2.4 Star Slots

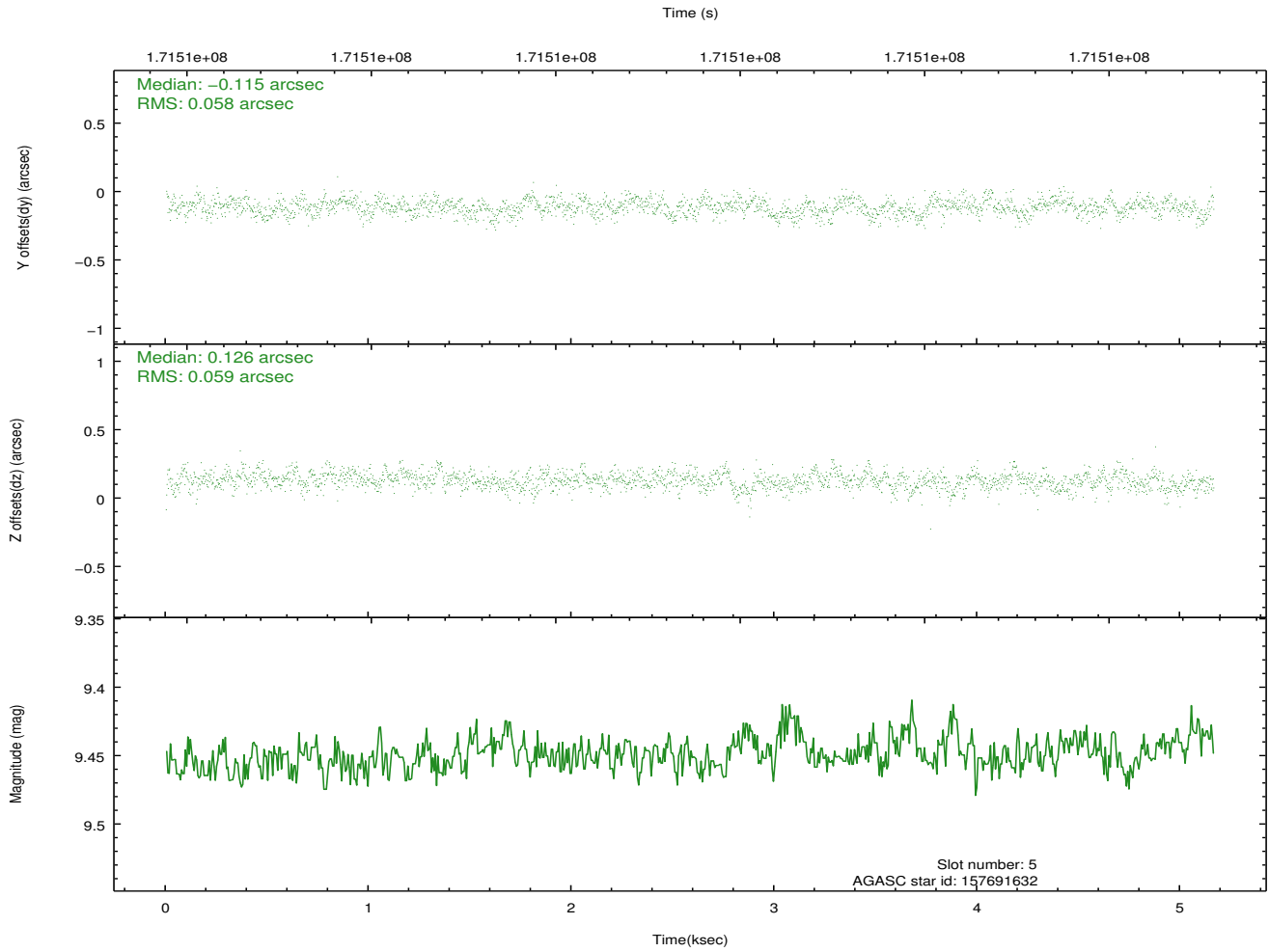
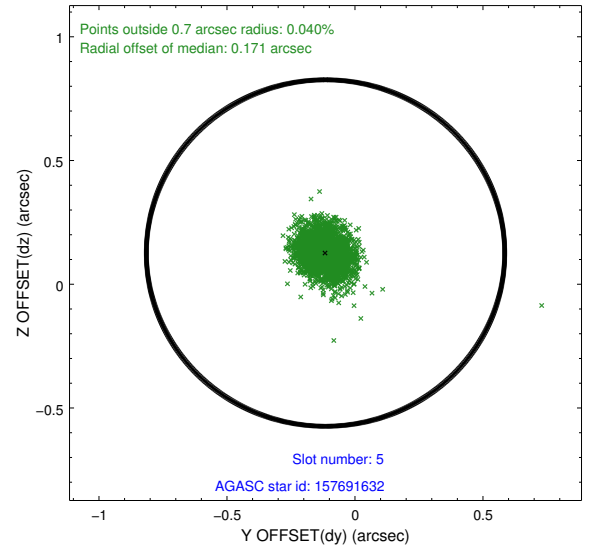
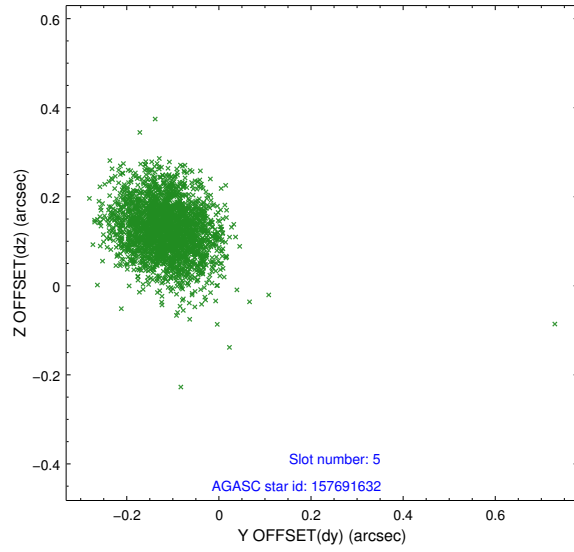
2.4.1 Slot 3



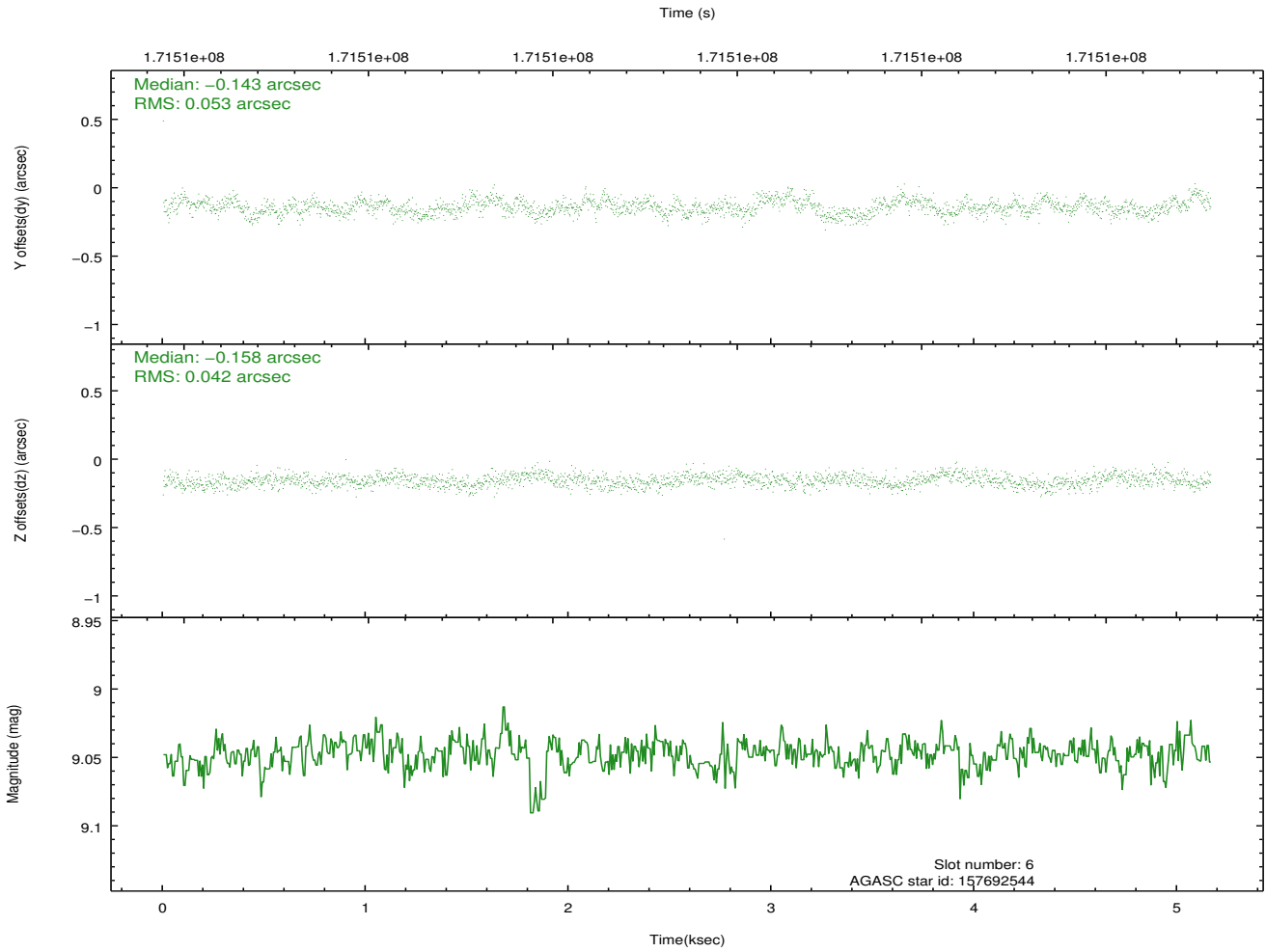
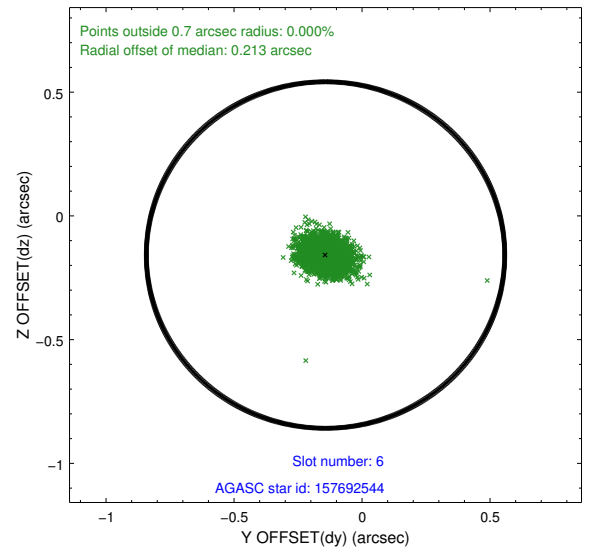
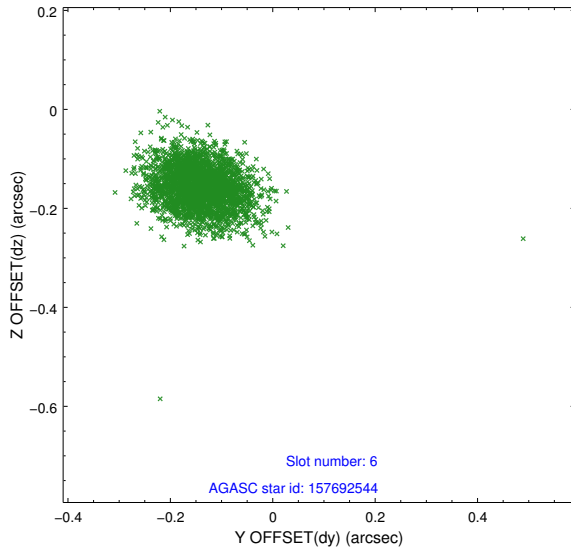
2.4.2 Slot 4



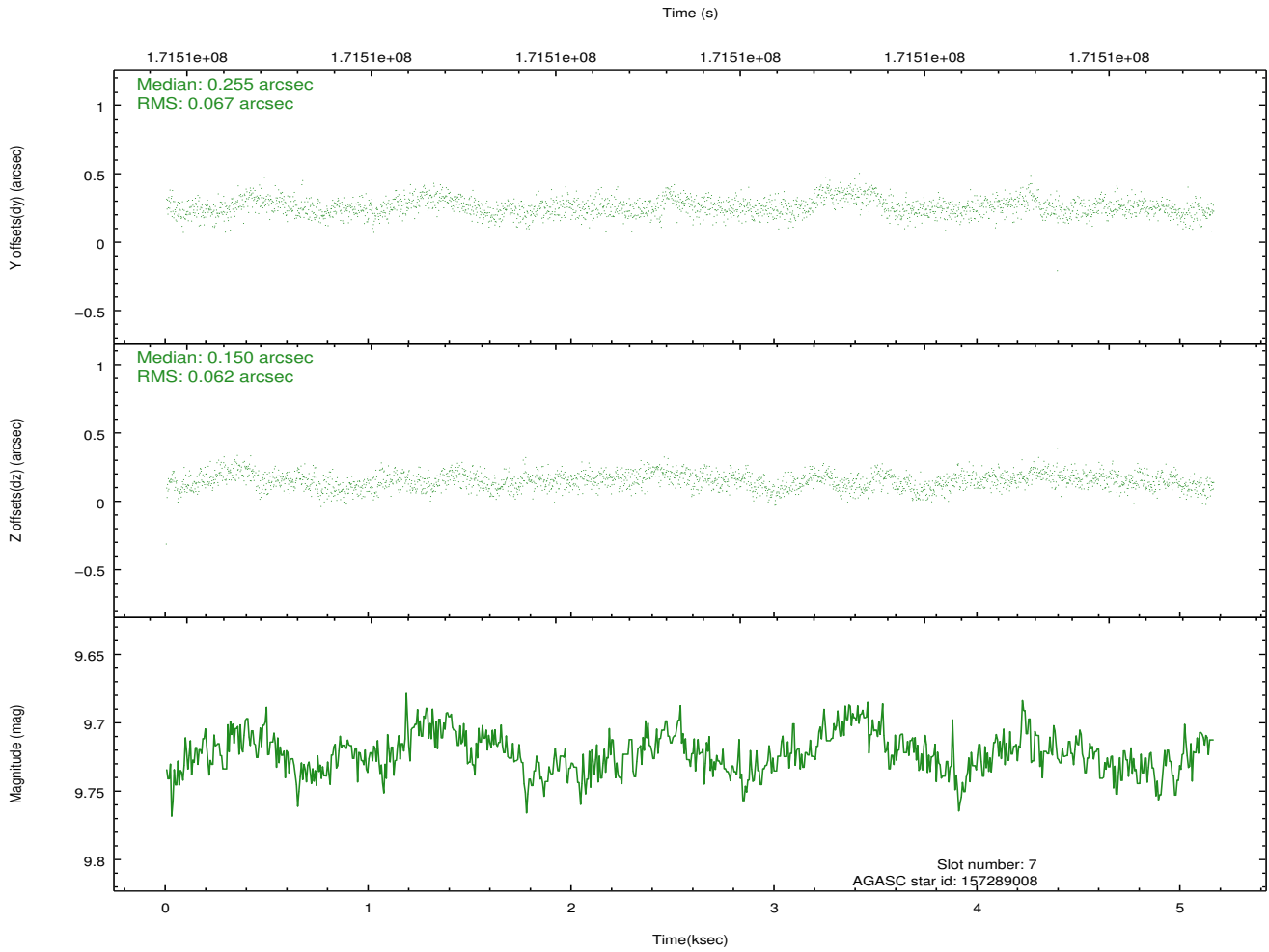
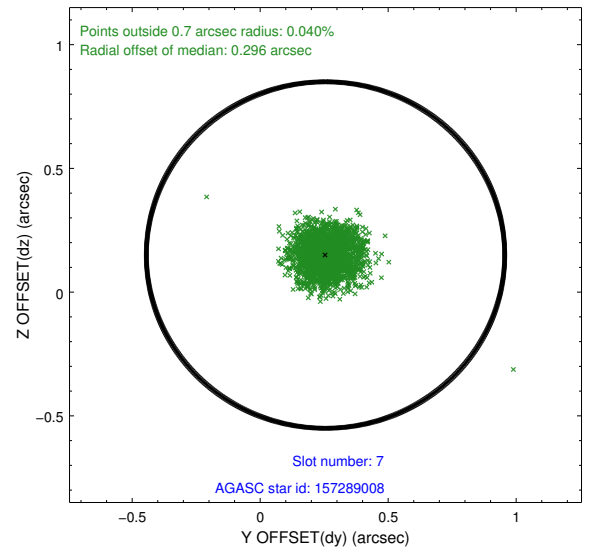
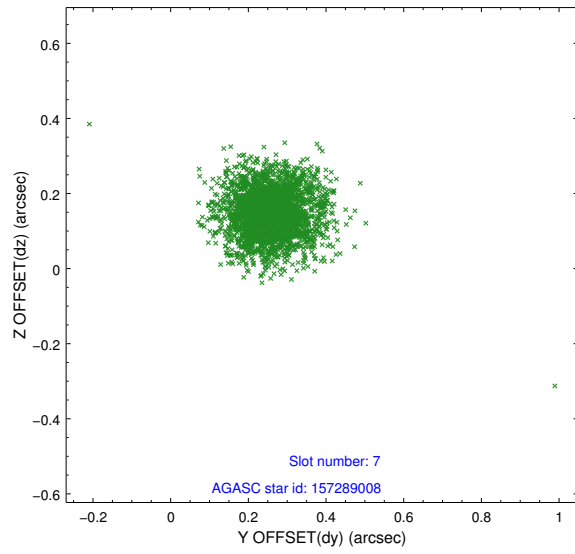
2.4.3 Slot 5



2.4.4 Slot 6

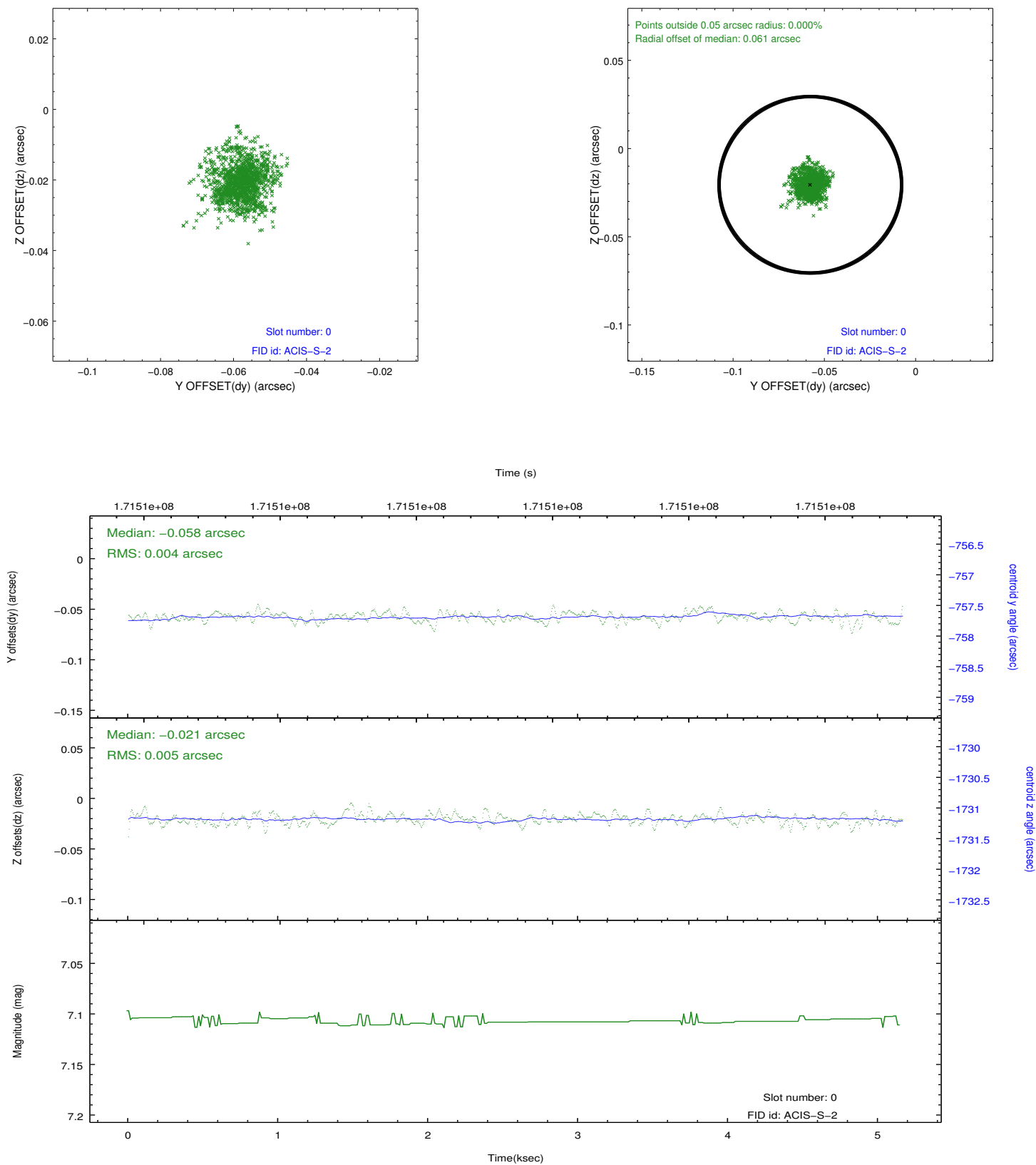


2.4.5 Slot 7

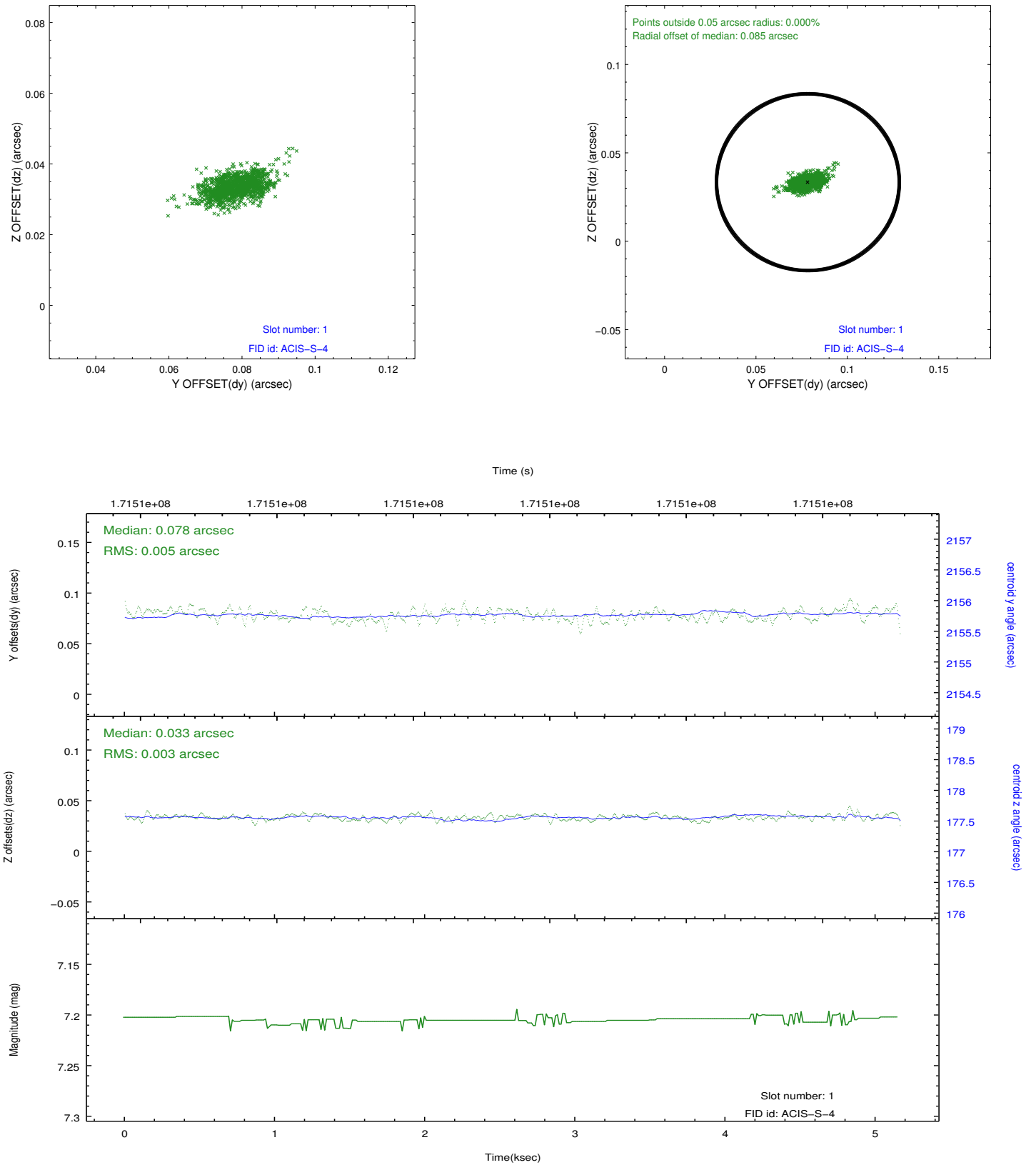


2.5 FID Slots

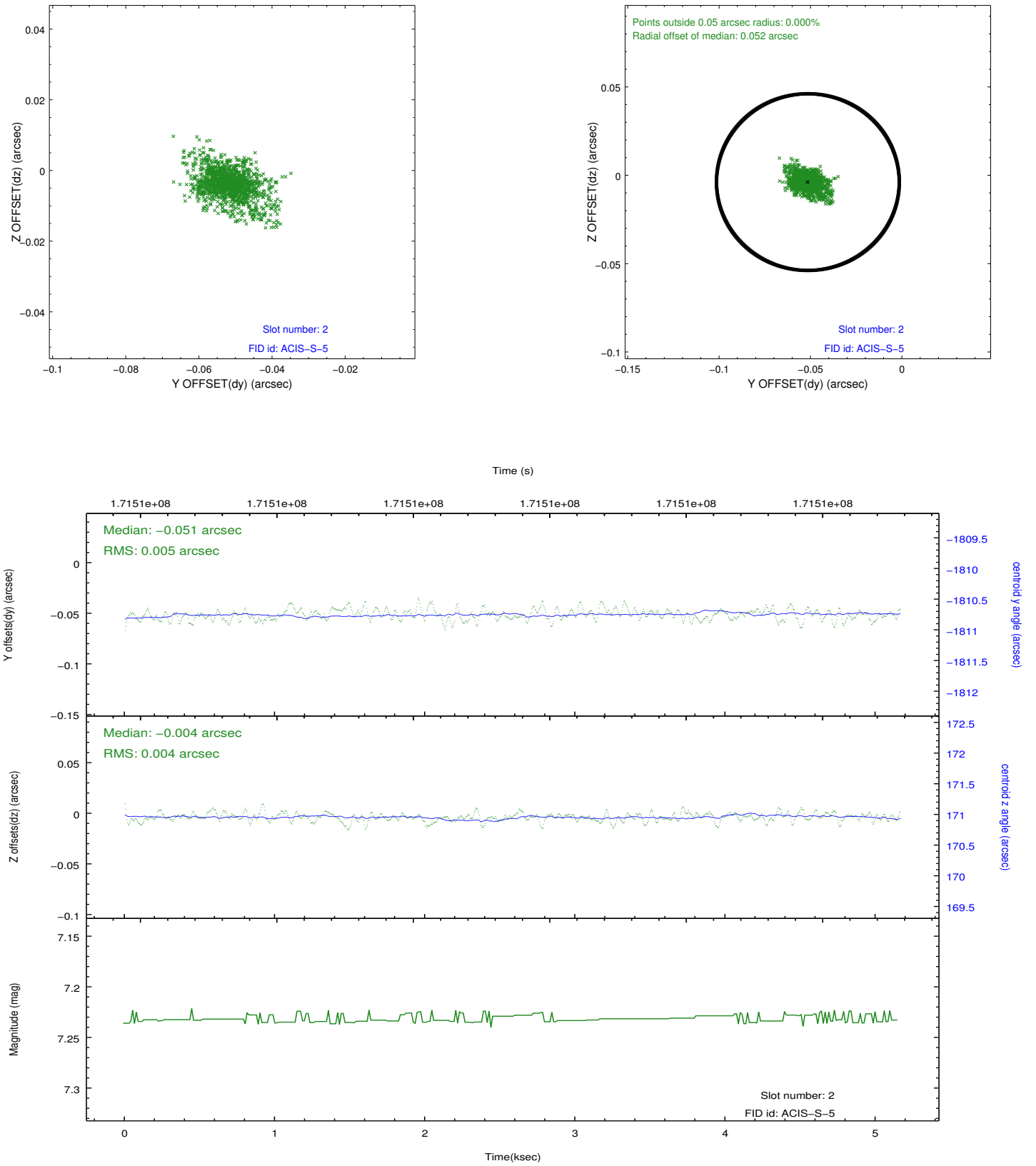
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.55

A.2 Comments

A gap in telemetry resulted in the loss of part of the ACIS science run report. The missing values in the *srr0.fits and *srp0.fits files were collected from other files automatically in the software and verified manually. There is no adverse impact on the science data.