

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 508 - L2 Version 001
Chandra X-Ray Center

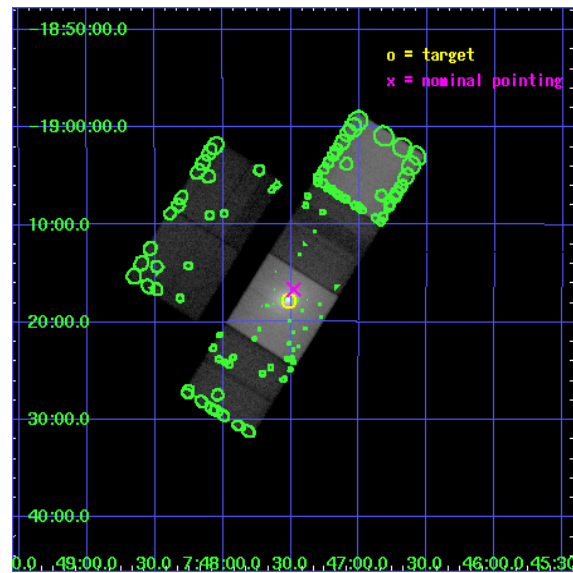
L2 Processing Date : Jun 5 2007

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1 Front

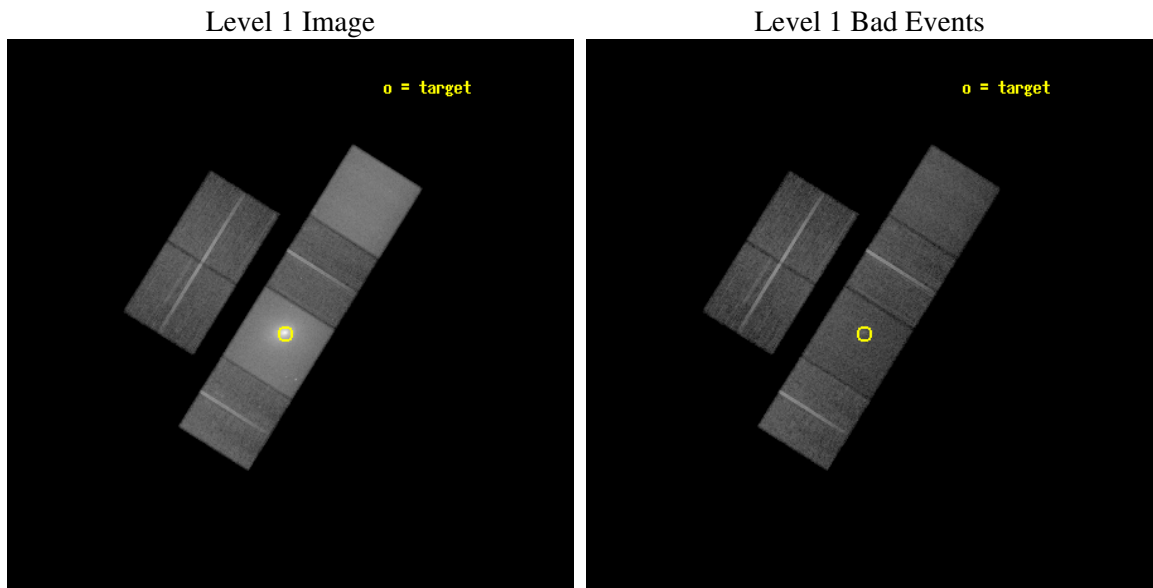
seq_num	800016
obs_id	508
title	THE MASSIVE COOLING FLOW IN PKS0745-191
observer	Professor Andrew Fabian
object	PKS 0745-191
dtcycle	0
cycle	P
ra_targ	116.879583
dec_targ	-19.296389
ra_nom	116.86948418723
dec_nom	-19.277675432068
roll_nom	122.00030220356
revision	2
ontime	28326.400026381
livetime	27967.714093137
ontime2	28326.400026381
ontime3	28326.400026381
ontime5	28326.400026381
ontime6	28323.159046218
ontime7	28326.400026381
ontime8	28323.159076139
l2events	1022940



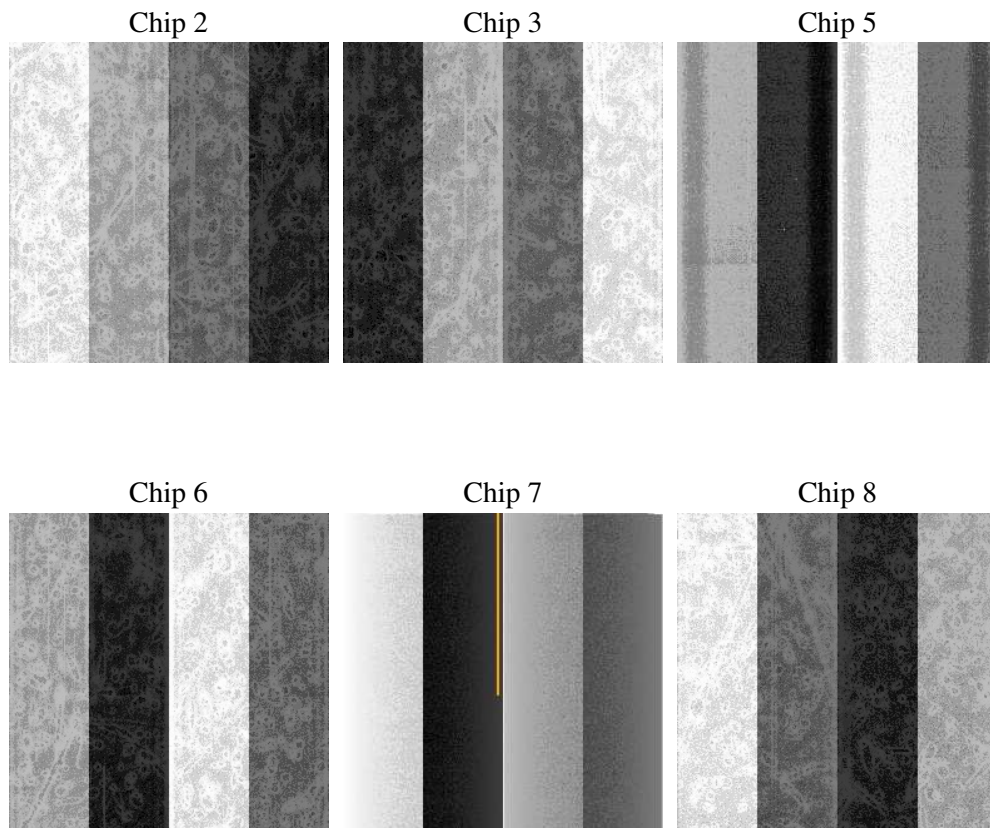
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-05T11:50:04
revision	2

sched_exp_time	28200.000000
ontime	28326.400026381
ontime2	28326.400026381
ontime3	28326.400026381
ontime5	28326.400026381
ontime6	28323.159046218
ontime7	28326.400026381
ontime8	28323.159076139
l1events	1979813

2.1.4 Events

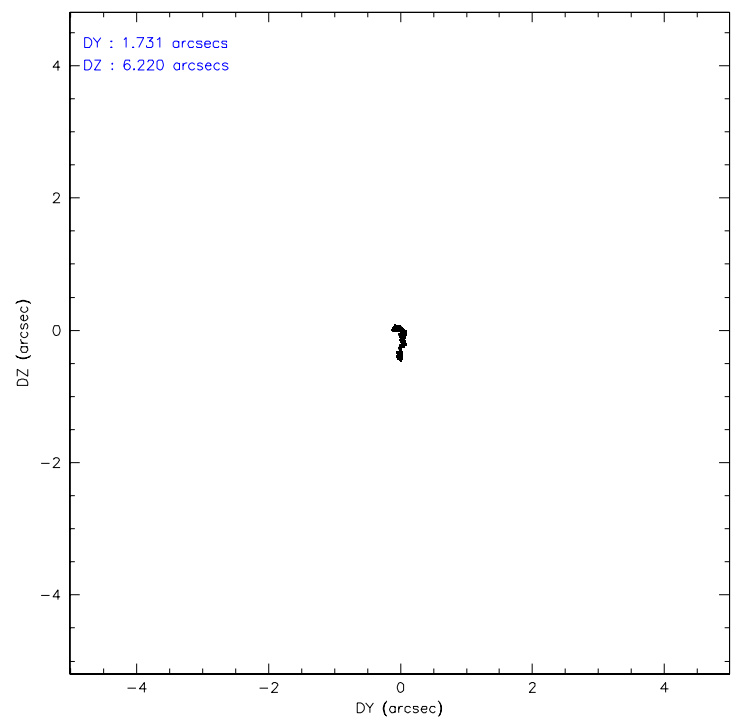
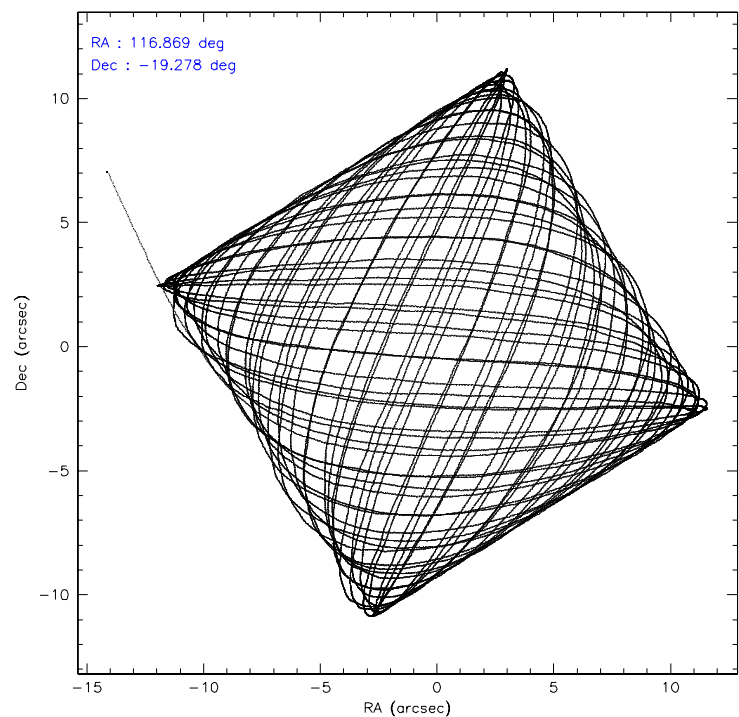
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	198641	189104	450504	220575	664577	256412
rejected events	156802	145401	146937	154630	132344	172683
rejected %	78%	76%	32%	70%	19%	67%

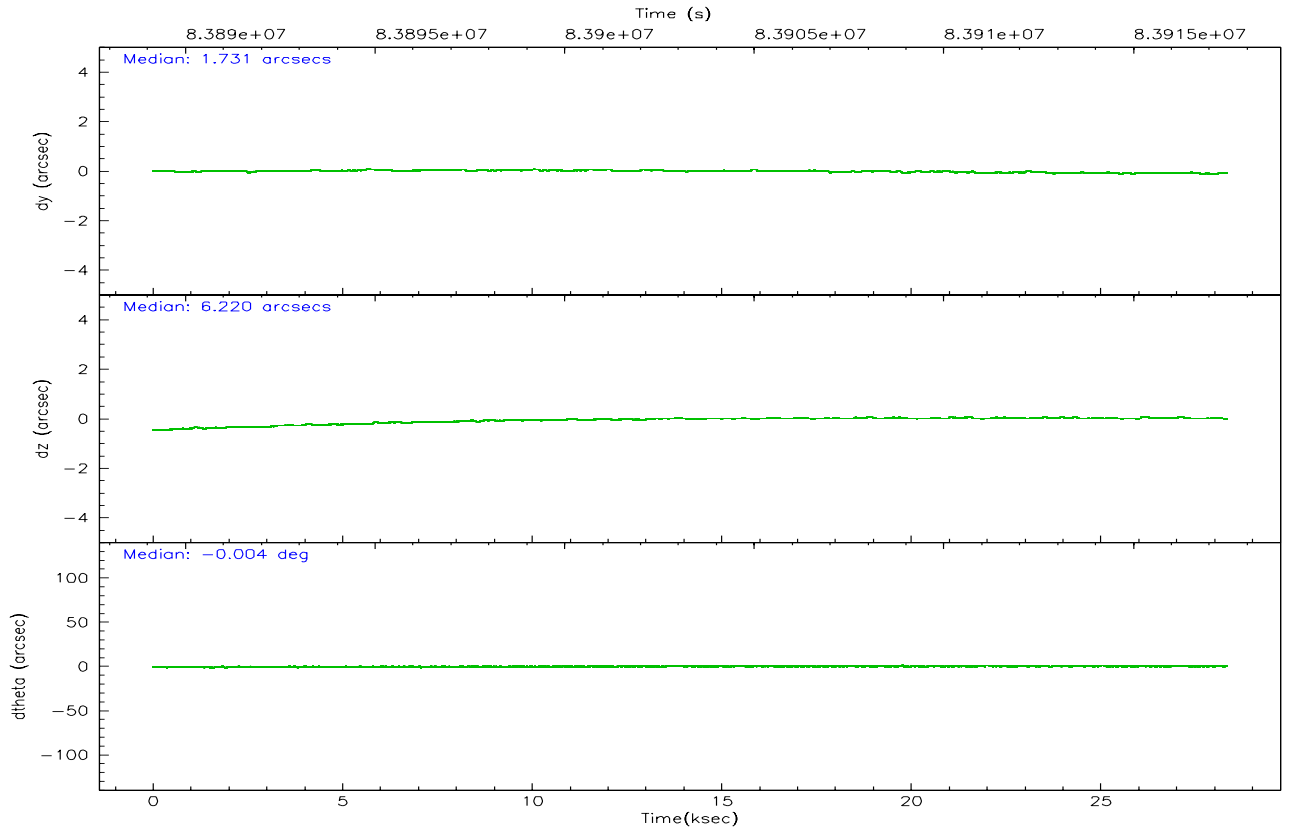
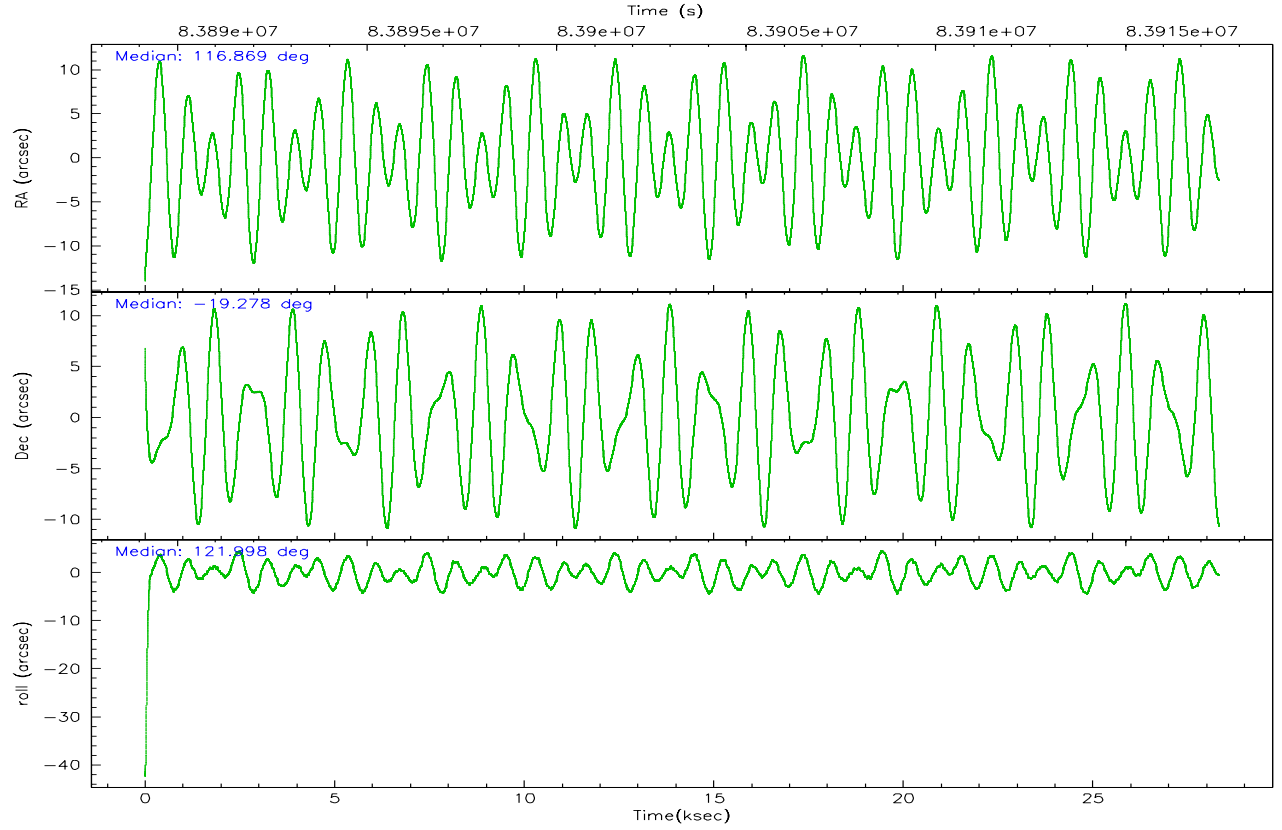
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	24034	25983	45778	43156	95232	46360
	12%	13%	10%	19%	14%	18%
grade 1 events	114	132	332	164	393	215
	0%	0%	0%	0%	0%	0%
grade 2 events	9359	9509	85267	12712	113465	16880
	4%	5%	18%	5%	17%	6%
grade 3 events	2183	2141	18348	2616	50867	4679
	1%	1%	4%	1%	7%	1%
grade 4 events	2064	2173	17942	2727	50151	4569
	1%	1%	3%	1%	7%	1%
grade 5 events	5666	6154	20815	6984	22562	8722
	2%	3%	4%	3%	3%	3%
grade 6 events	4397	4093	137985	5088	225560	11623
	2%	2%	30%	2%	33%	4%
grade 7 events	150824	138919	124037	147128	106347	163364
	75%	73%	27%	66%	16%	63%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
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
Pointing RA	116.895167	116.8694841872292	Subarray requested	NONE	NONE
Pointing Dec	-19.290384	-19.27767543206782	Alternating exposures requested	N	N
Pointing Roll	121.852171	122.0003022035597	Primary exposure time	3.200000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	83889276.184000	83888131.279126			
Observation start date	2000-08-28T22:33:32	2000-08-28T22:15:31			
Observation end time	83917476.184000	83918040.267749			
Observation end date	2000-08-29T06:23:32	2000-08-29T06:34:00			
Read mode	TIMED	TIMED			

2.3 Aspect



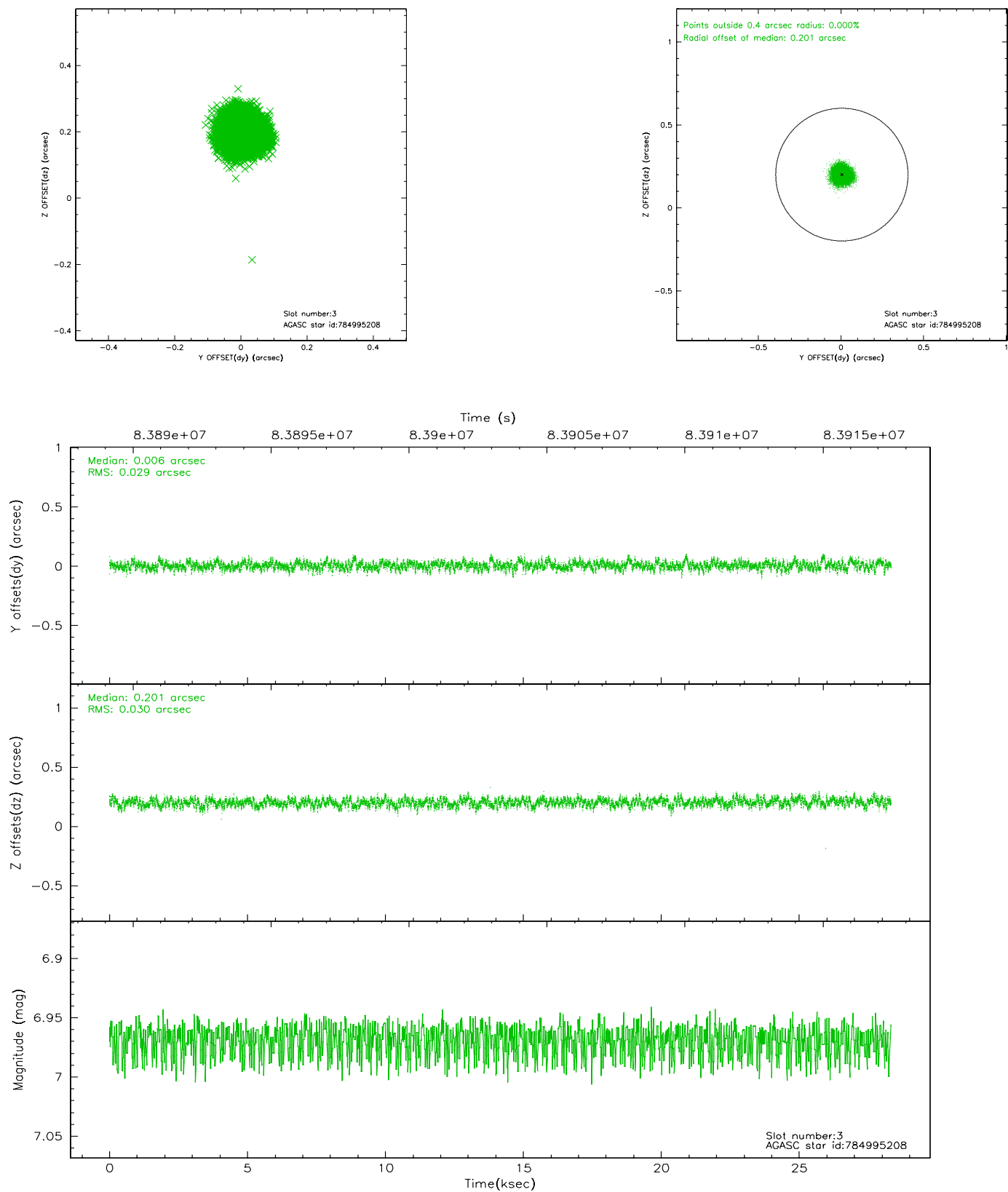


Slot Statistics

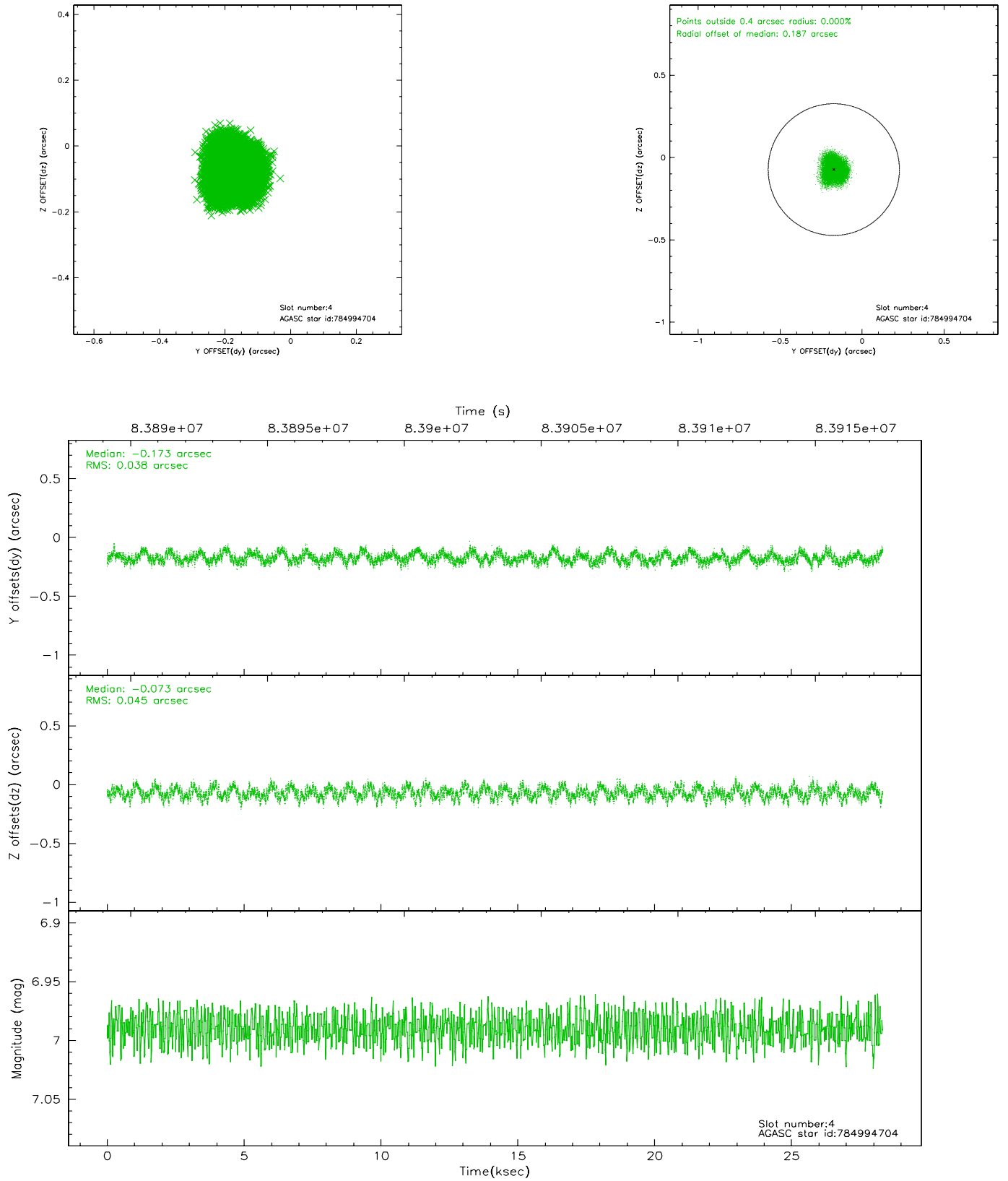
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	6911	-0.021	0.032	0.007	0.011	0.000000	0.000000	-754.35	-1727.26
1	FID	ACIS-S-4	7.21	6910	-0.073	0.002	0.006	0.010	0.000000	0.000000	2158.83	181.11
2	FID	ACIS-S-5	7.24	6910	0.063	-0.025	0.006	0.010	0.000000	0.000000	-1807.00	174.84
3	GUIDE	784995208	6.97	13820	0.006	0.201	0.045	0.071	117.440623	-19.006902	-115.20	-2114.07
4	GUIDE	784994704	6.99	13821	-0.173	-0.073	0.065	0.098	116.488404	-18.904531	1909.52	444.19
5	GUIDE	785008144	9.07	13815	-0.080	-0.014	0.066	0.109	116.353291	-19.044976	1721.24	1101.47
6	GUIDE	785006264	8.47	13821	0.115	-0.070	0.086	0.134	116.941738	-19.984718	-2206.10	1185.03
7	GUIDE	785002232	9.40	13810	0.128	-0.048	0.084	0.135	116.952941	-19.562021	-934.04	349.39

2.4 Star Slots

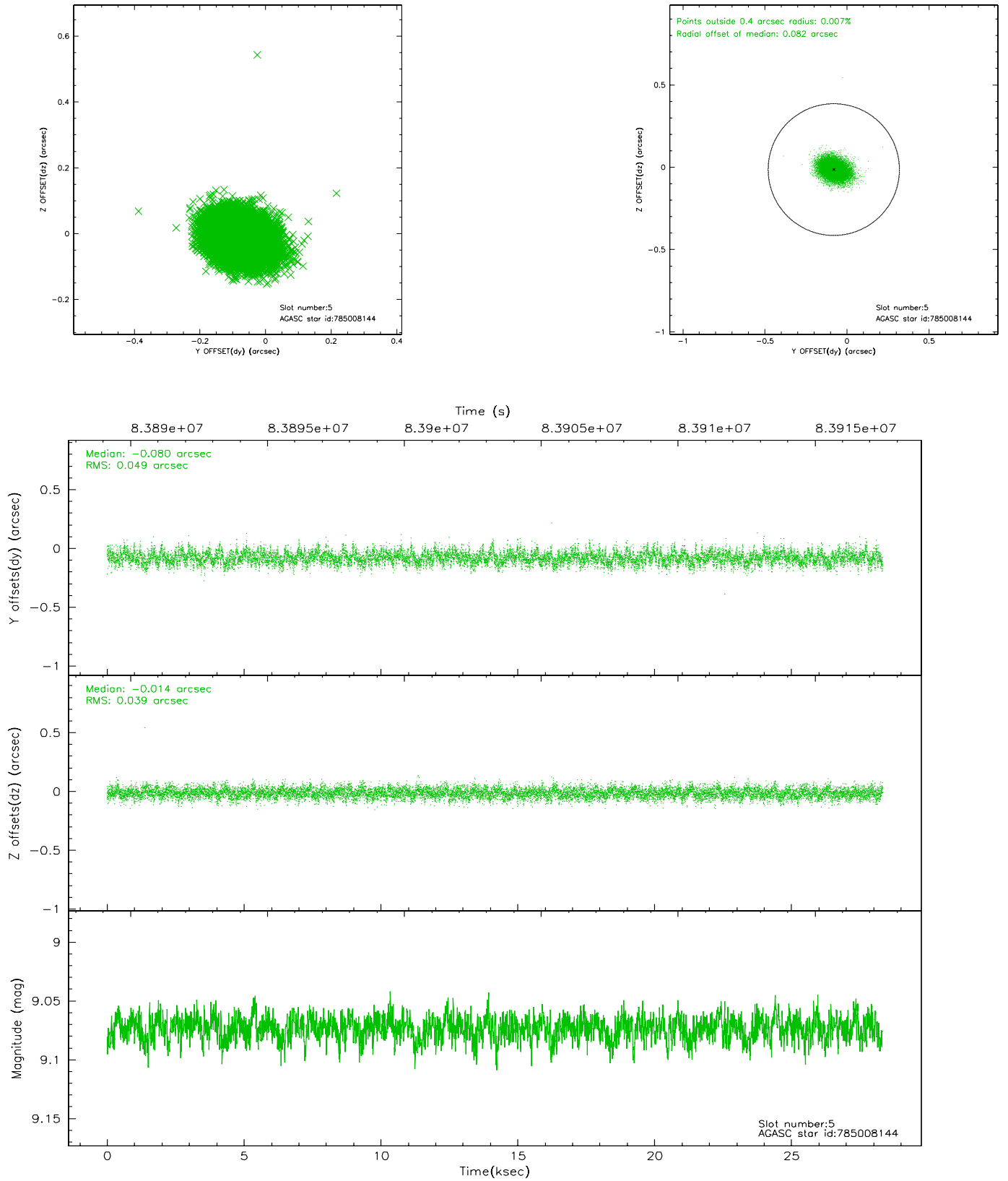
2.4.1 Slot 3



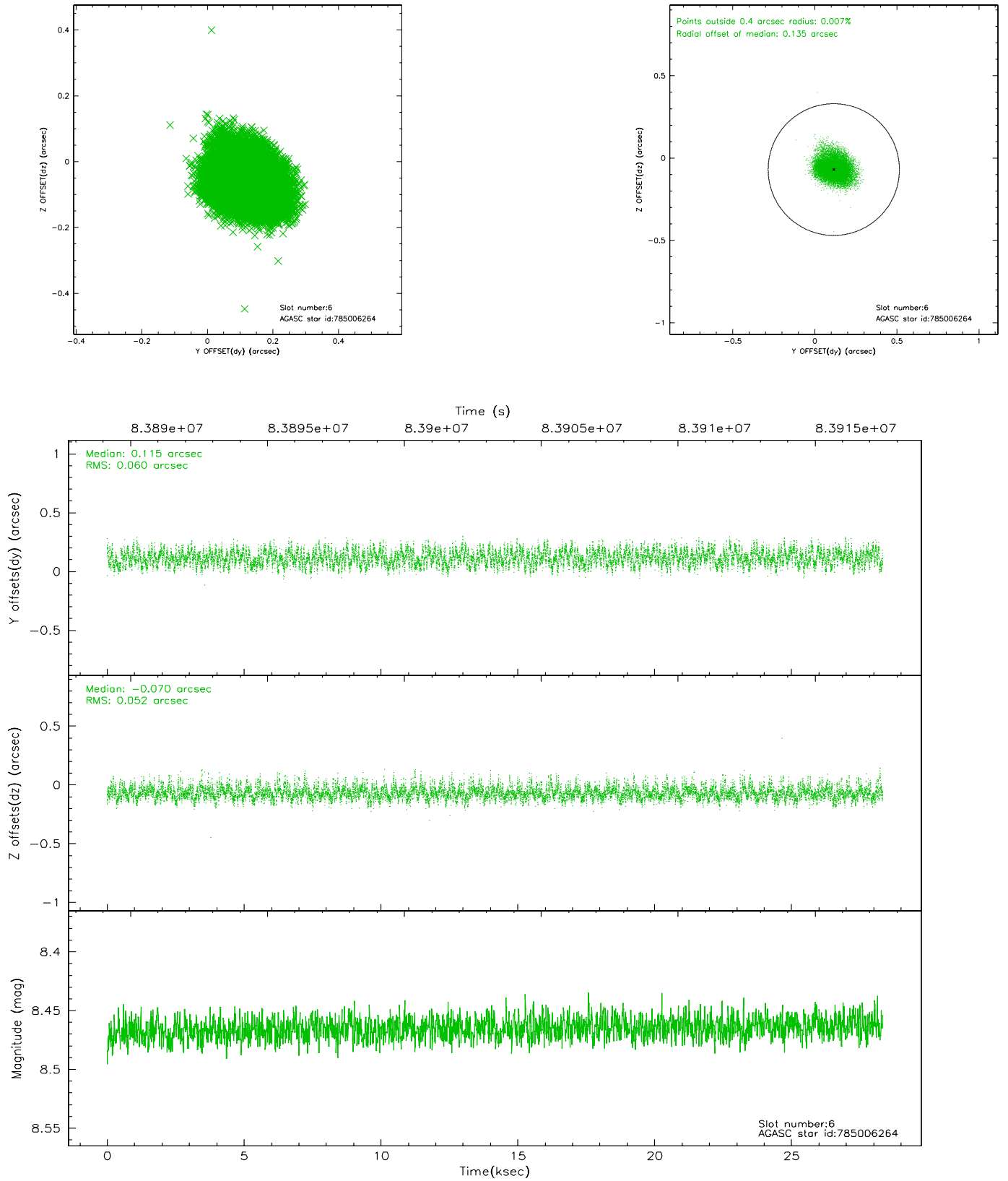
2.4.2 Slot 4



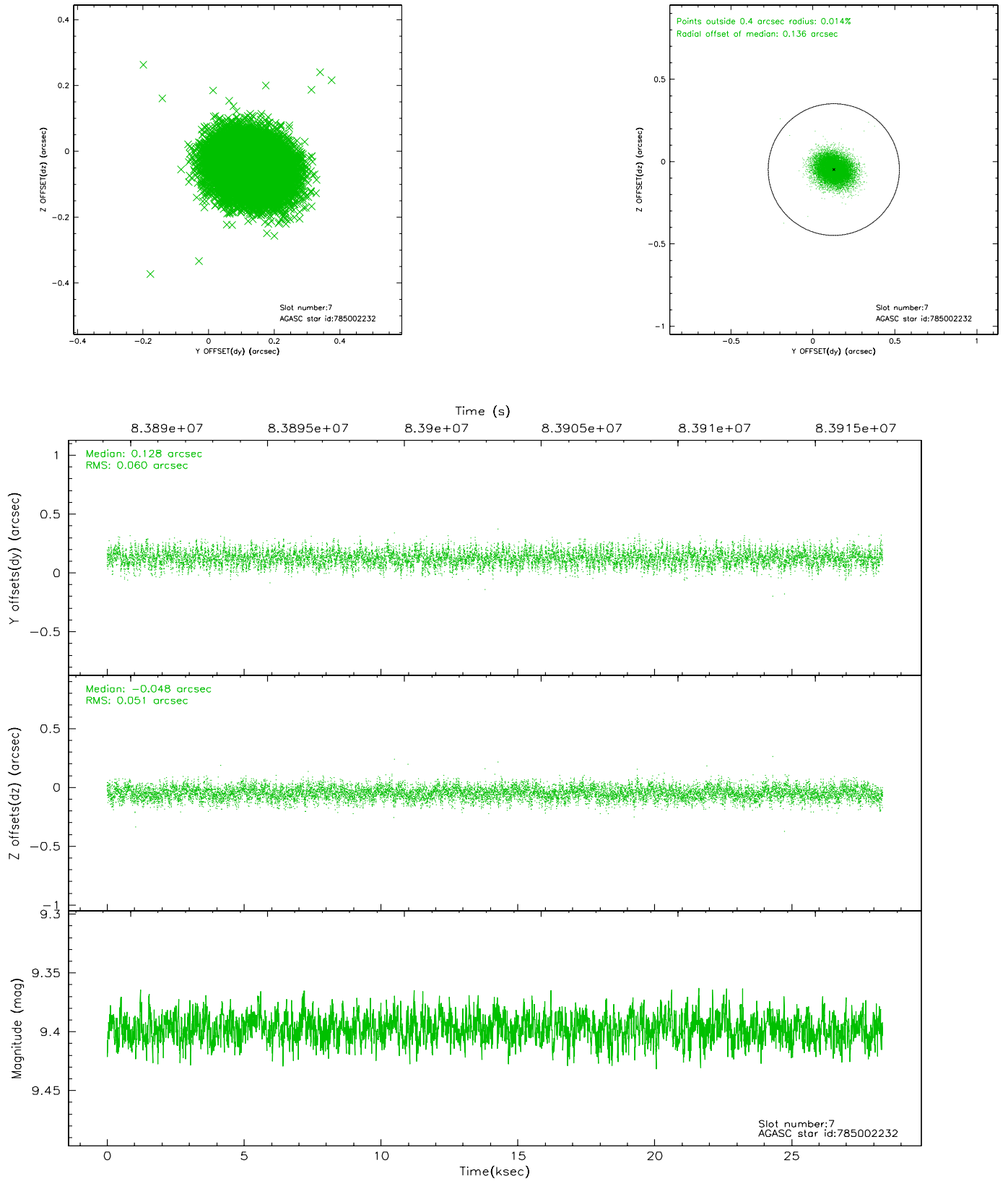
2.4.3 Slot 5



2.4.4 Slot 6

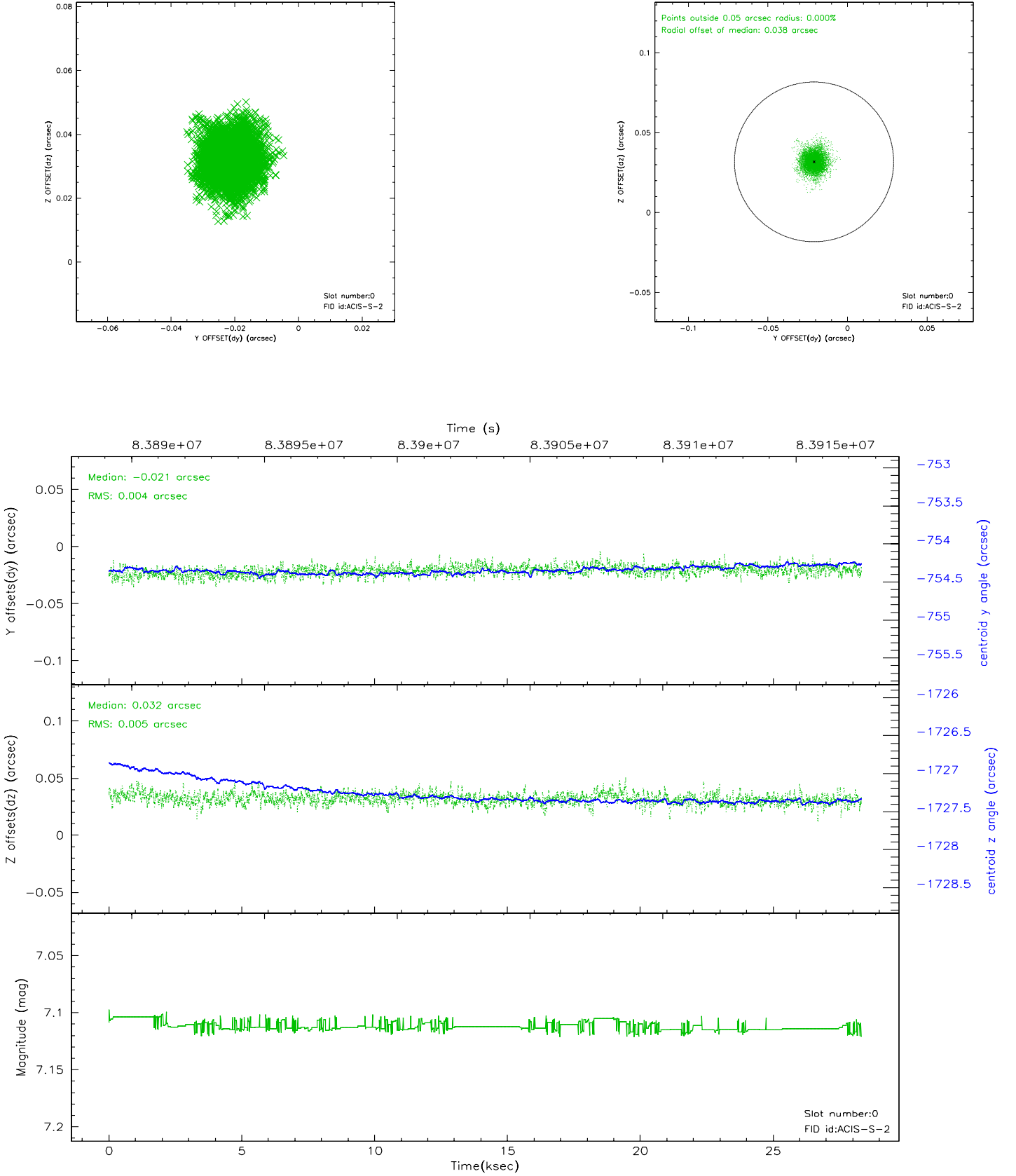


2.4.5 Slot 7

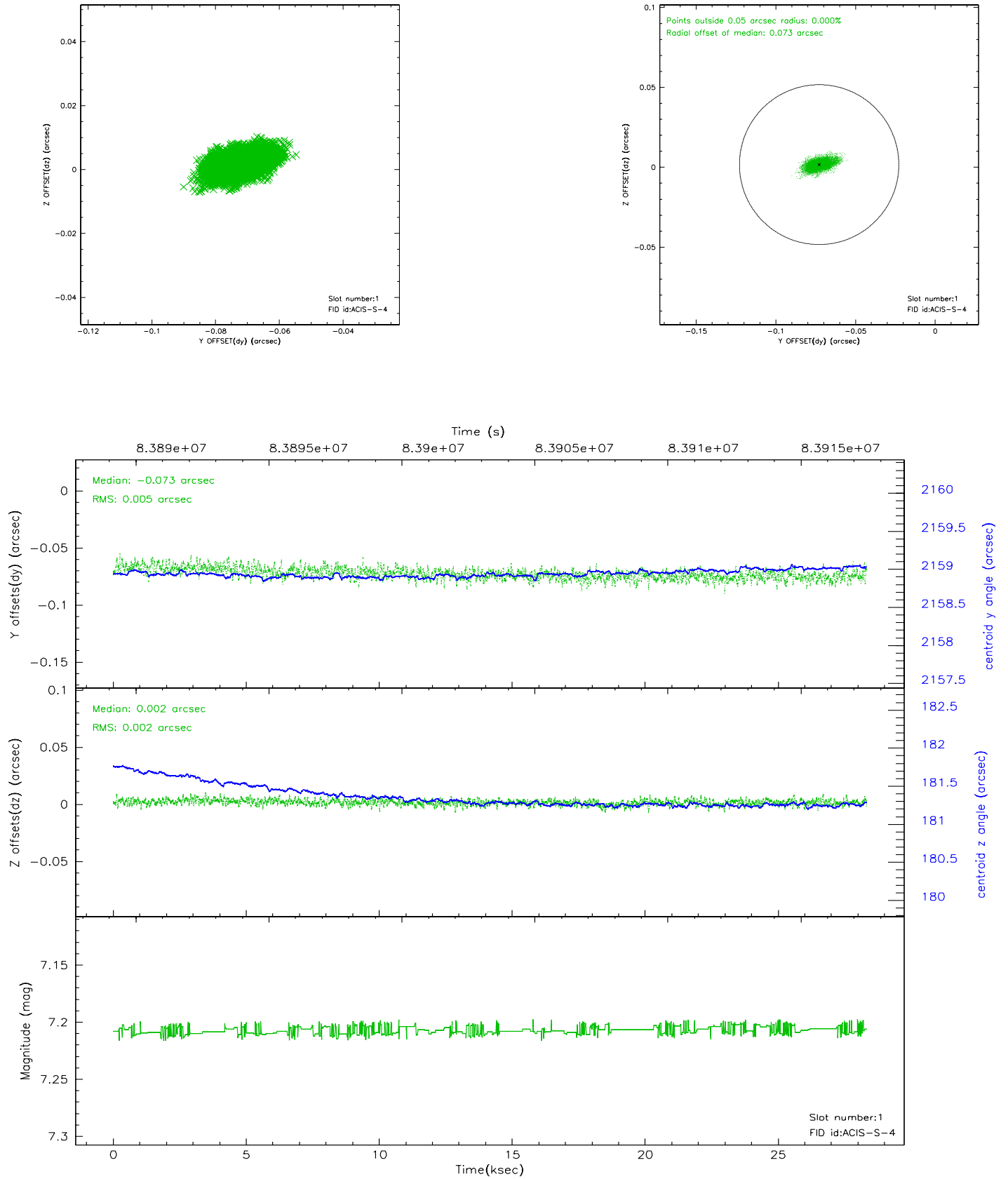


2.5 FID Slots

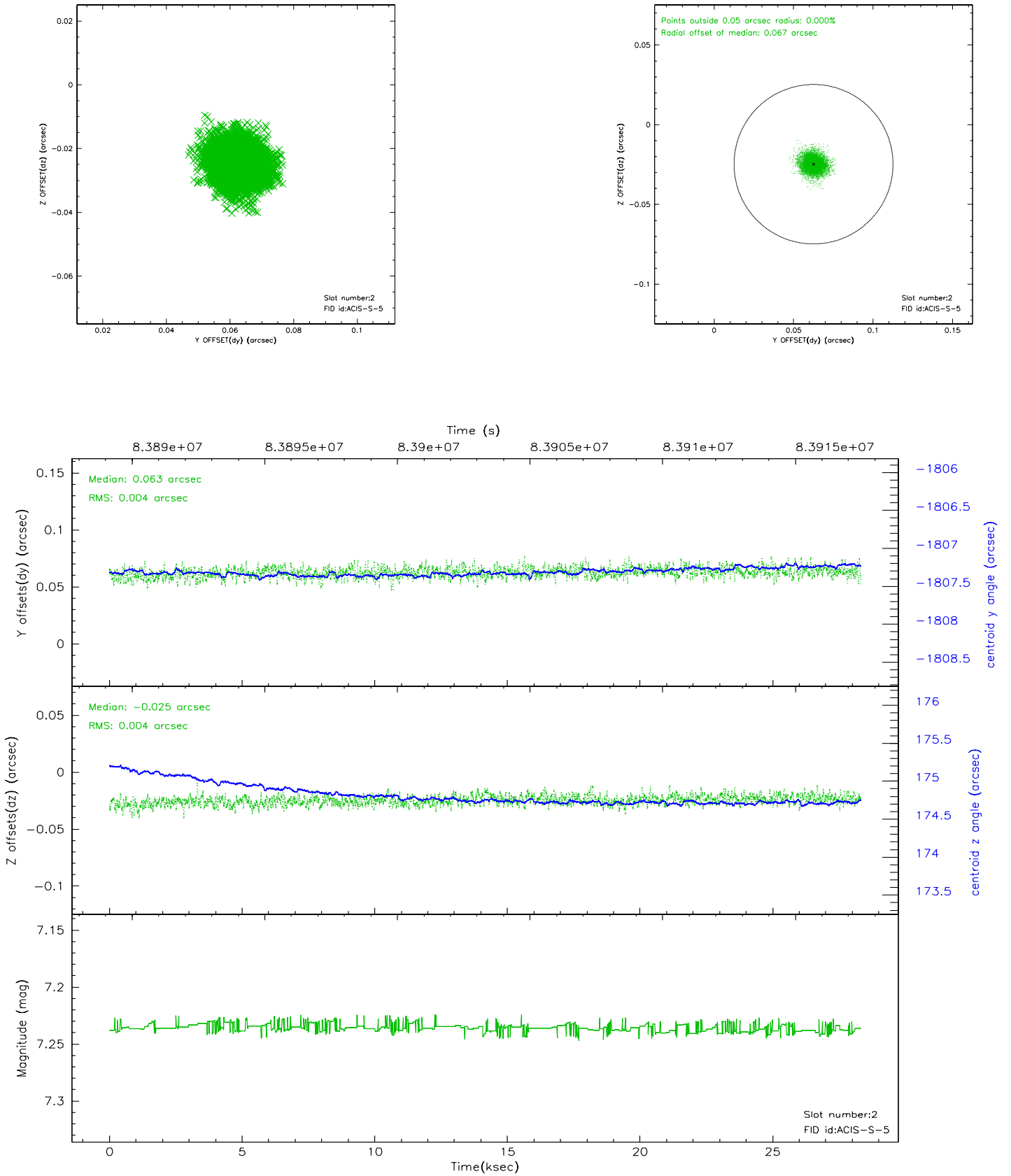
2.5.1 Slot 0



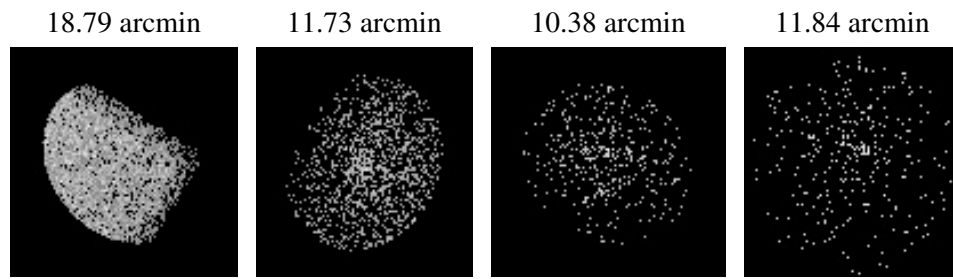
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.326

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the first 2 ksec of this observation. The ACIS spectral response calibration for the front-illuminated chips is less accurate at these warmer temperatures than it is at -119.7 C. The back-illuminatd chips are not affected at the focal plane temperatures recorded for this observation. Users whose science objectives depend on the most accurate spectral response (i.e.: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.