

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 492 - L2 Version 001
Chandra X-Ray Center

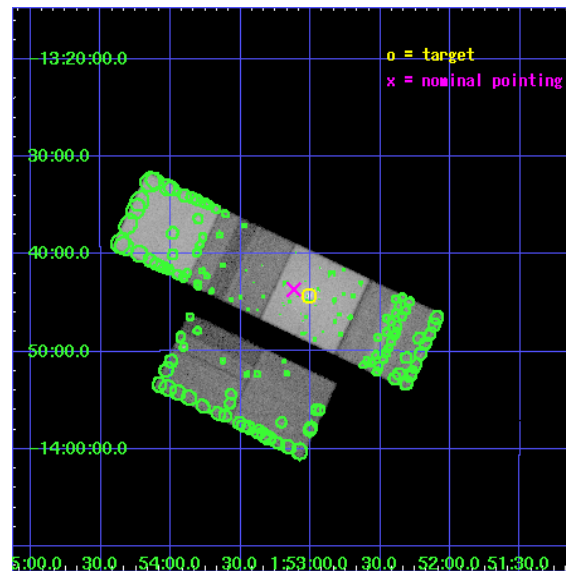
L2 Processing Date : Jun 12 2007

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1 Front

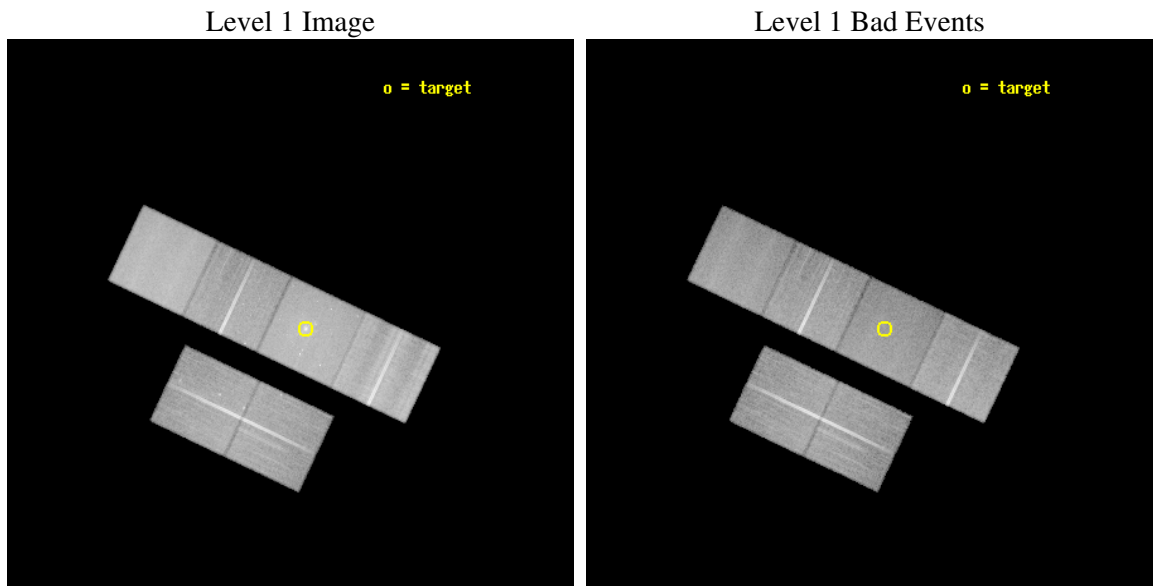
seq_num	800000
obs_id	492
title	THE SHAPE OF THE DARK MATTER DISTRIBUTIONIN NGC 720
observer	Prof. Gordon Garmire
object	NGC 720
dtcycle	0
cycle	P
ra_targ	28.251667
dec_targ	-13.738333
ra_nom	28.279656441456
dec_nom	-13.727458660532
roll_nom	25.380965031099
revision	2
ontime	40124.800037369
livetime	39616.715659042
ontime2	40124.800037369
ontime3	40124.800037369
ontime5	40124.800037369
ontime6	40124.800037369
ontime7	40124.800037369
ontime8	40124.800037369
l2events	610689



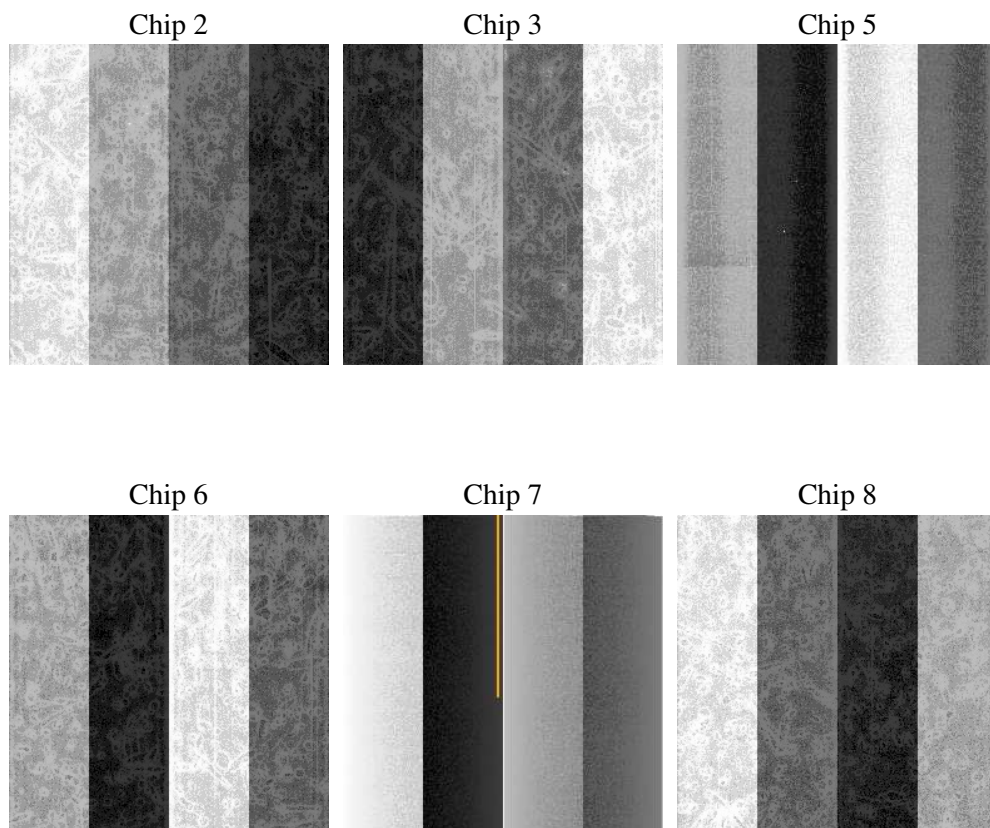
2 OBI

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	2007-06-12T08:15:06
revision	2

sched_exp_time	40000.000000
ontime	40124.800037369
ontime2	40124.800037369
ontime3	40124.800037369
ontime5	40124.800037369
ontime6	40124.800037369
ontime7	40124.800037369
ontime8	40124.800037369
l1events	2073608

2.1.4 Events

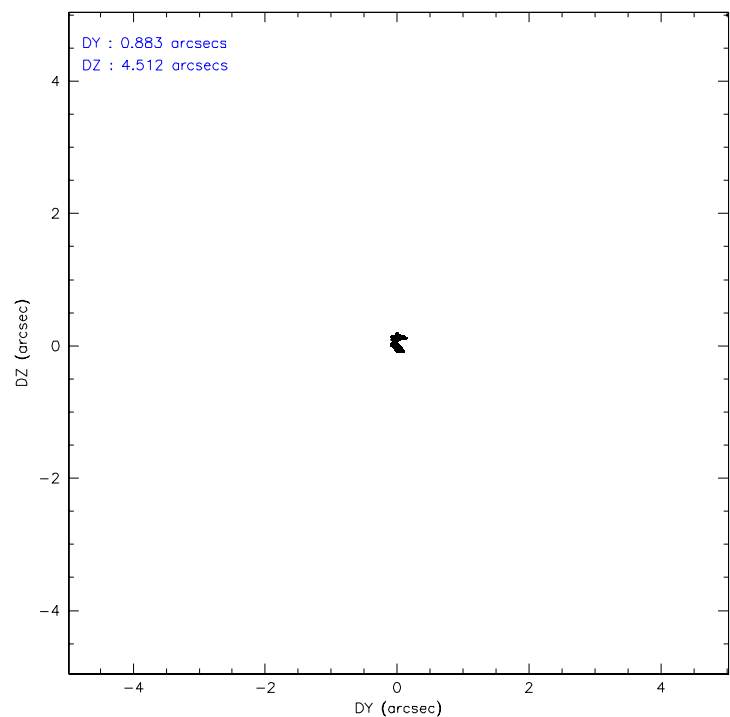
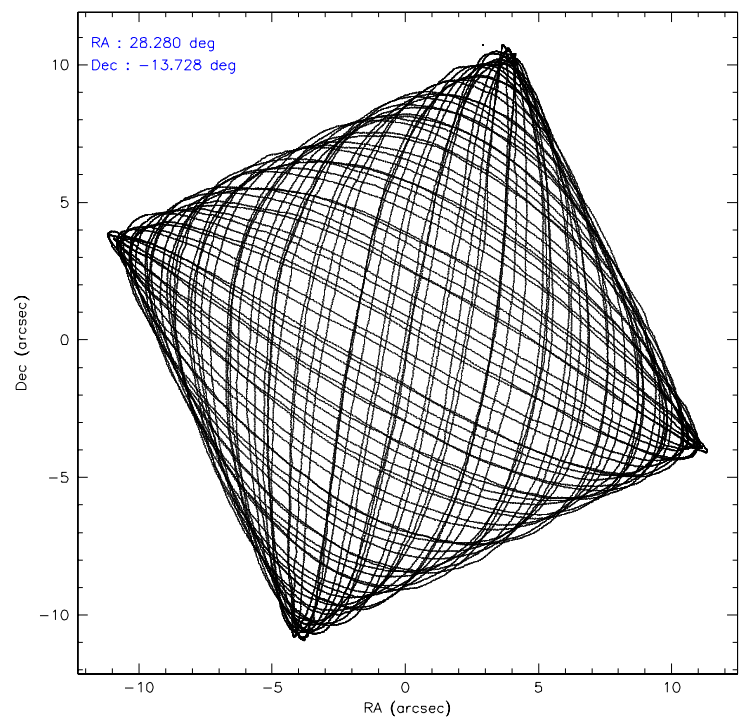
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	293072	282583	400276	294414	390179	413084
rejected events	240965	227988	203903	234172	189706	262749
rejected %	82%	80%	50%	79%	48%	63%

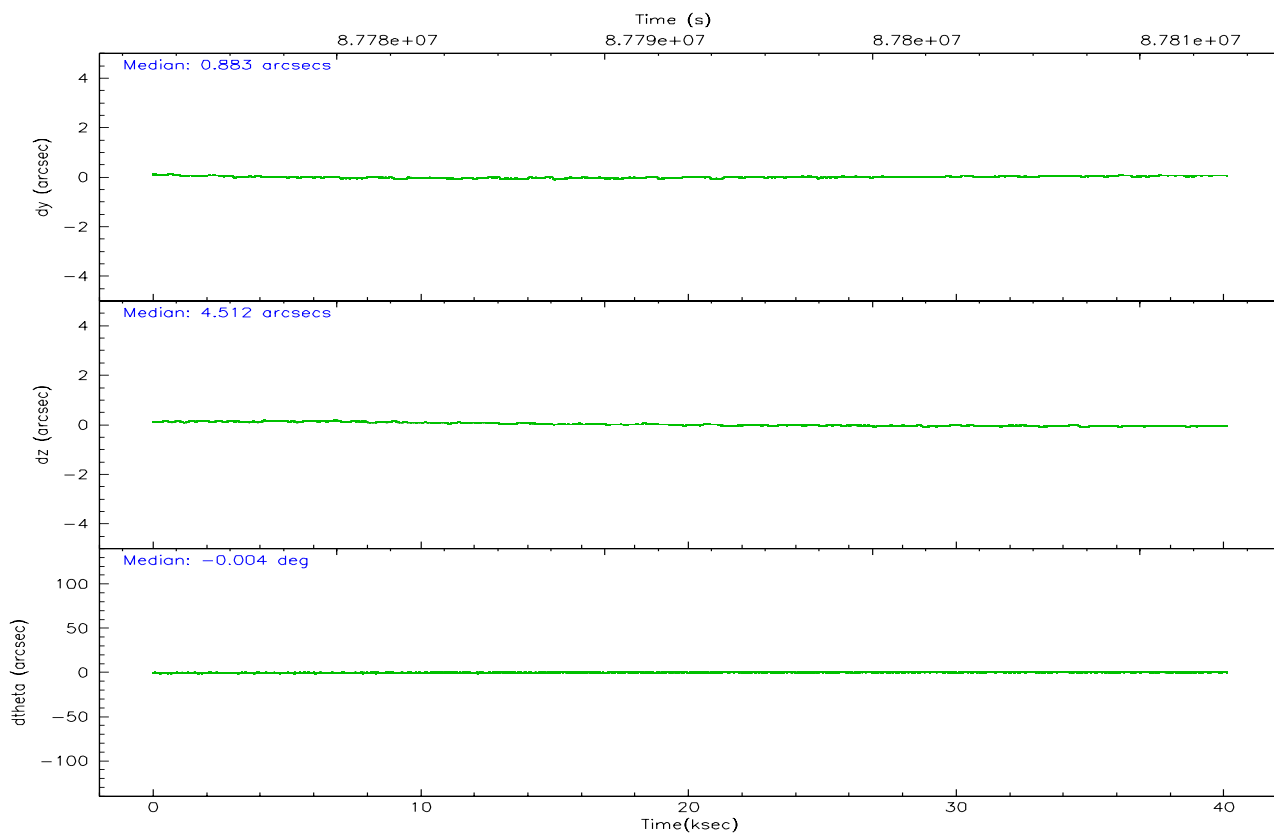
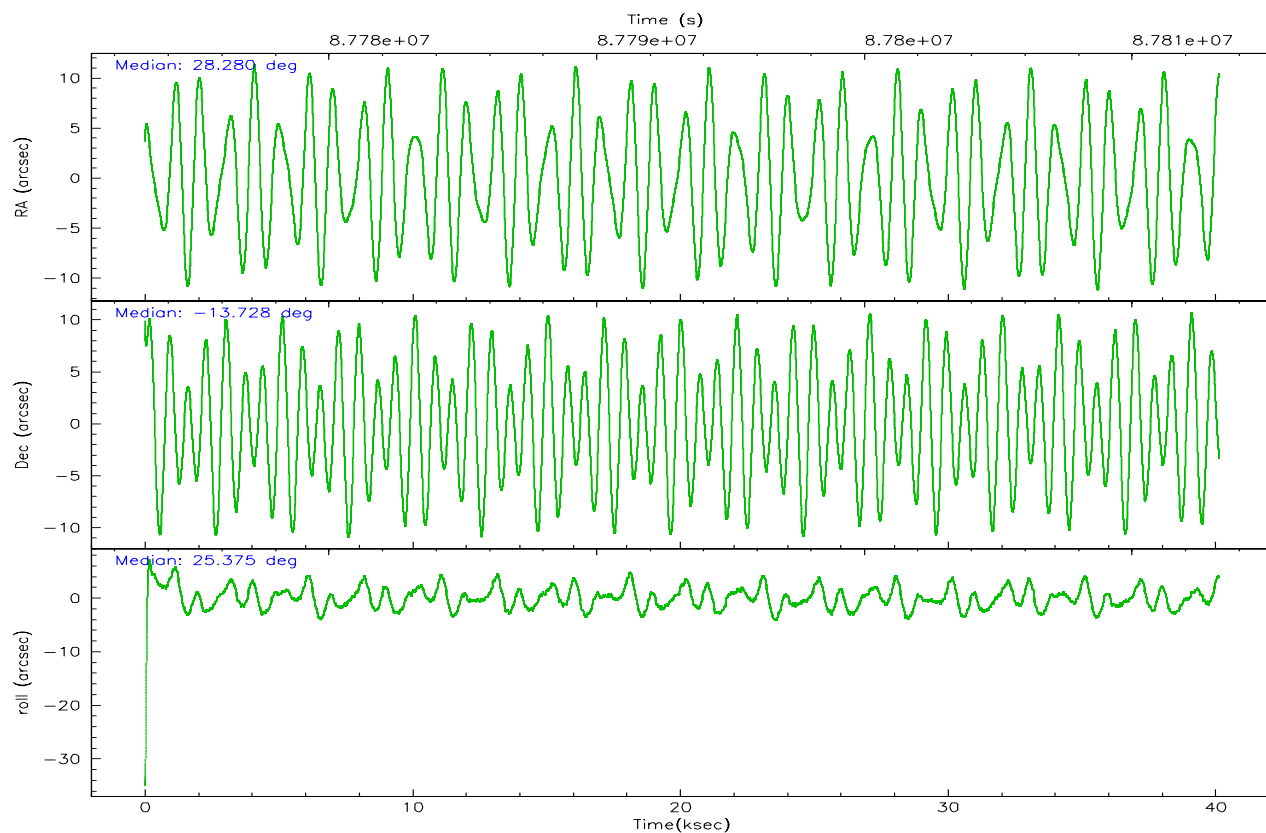
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	24234	24475	19539	29259	25784	62931
	8%	8%	4%	9%	6%	15%
grade 1 events	146	144	564	168	333	458
	0%	0%	0%	0%	0%	0%
grade 2 events	13112	15529	58950	15536	40045	26808
	4%	5%	14%	5%	10%	6%
grade 3 events	2833	3063	10734	3200	18403	19622
	0%	1%	2%	1%	4%	4%
grade 4 events	3275	3139	10248	3511	17957	17977
	1%	1%	2%	1%	4%	4%
grade 5 events	8421	9122	26957	10250	30904	13067
	2%	3%	6%	3%	7%	3%
grade 6 events	9310	9054	101153	9441	102559	24556
	3%	3%	25%	3%	26%	5%
grade 7 events	231741	218057	172131	223049	154194	247665
	79%	77%	43%	75%	39%	59%

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	28.263824	28.2796564414562	Subarray requested	NONE	NONE
Pointing Dec	-13.750092	-13.72745866053234	Alternating exposures requested	N	N
Pointing Roll	25.220591	25.38096503109854	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	87773254.184000	87771884.612812			
Observation start date	2000-10-12T21:26:30	2000-10-12T21:04:44			
Observation end time	87813254.184000	87813985.46440101			
Observation end date	2000-10-13T08:33:10	2000-10-13T08:46:25			
Read mode	TIMED	TIMED			

2.3 Aspect



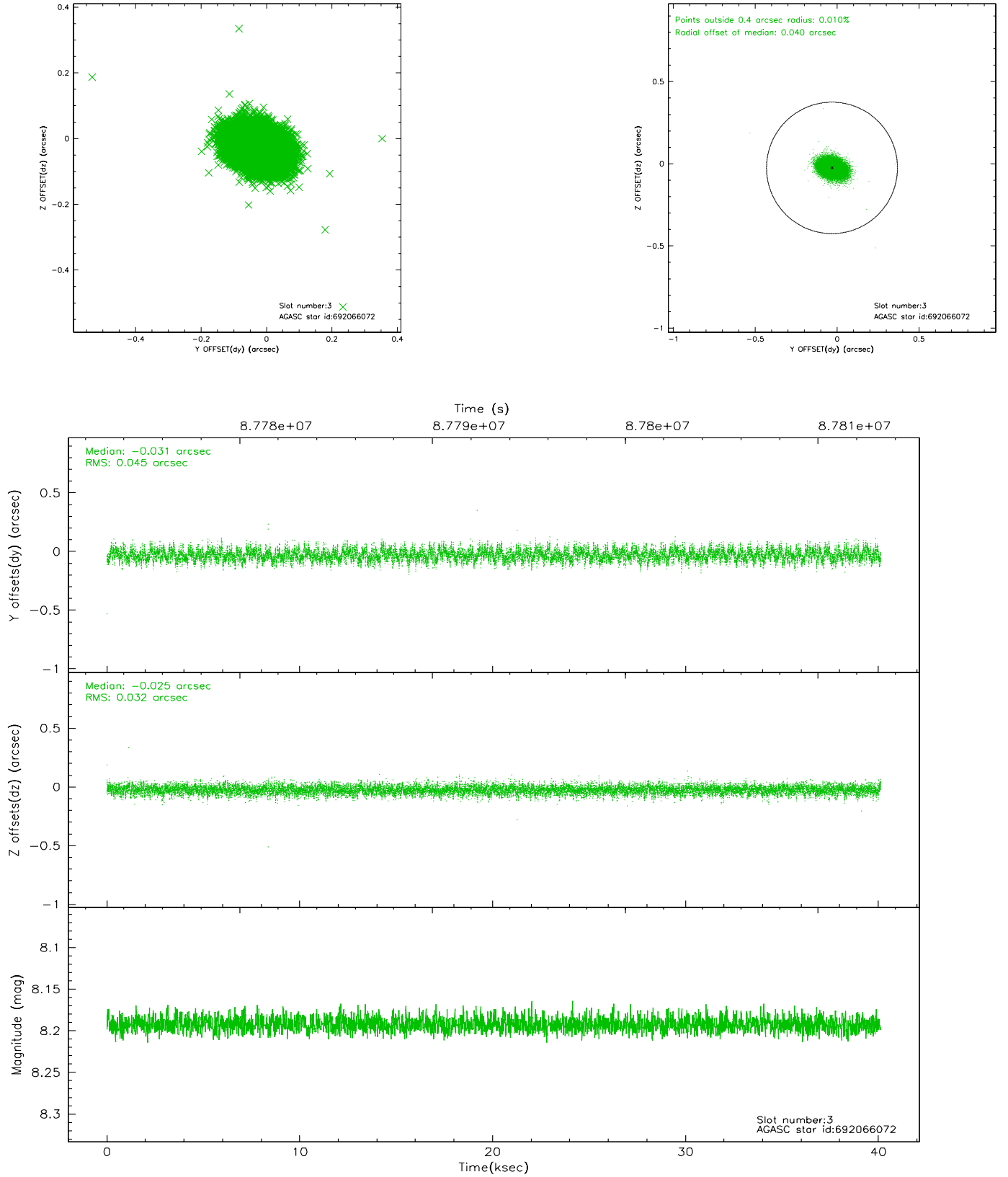


Slot Statistics

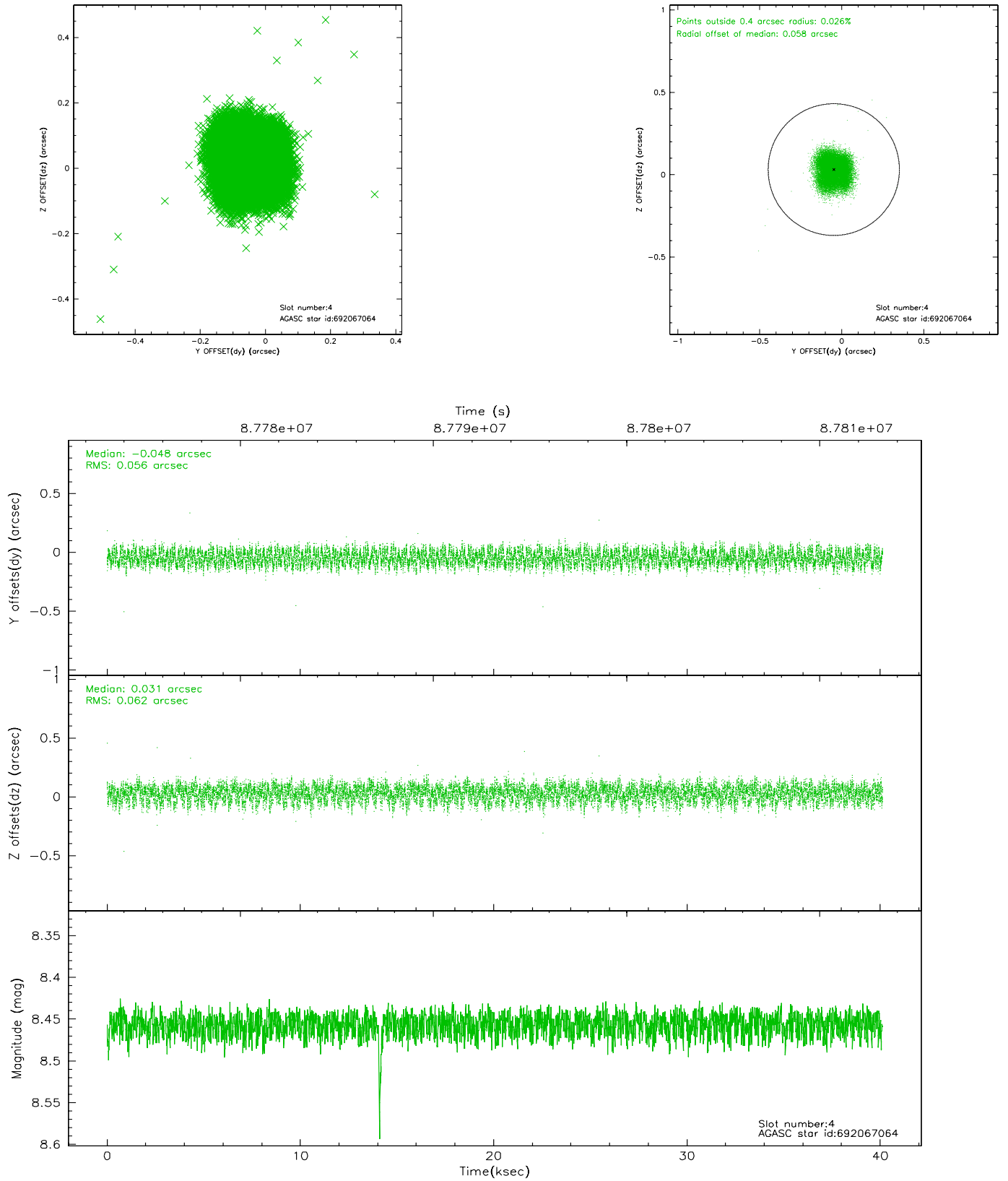
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	9785	-0.036	-0.004	0.007	0.011	0.000000	0.000000	-753.49	-1725.64
1	FID	ACIS-S-4	7.21	9786	-0.015	0.018	0.005	0.009	0.000000	0.000000	2159.78	182.87
2	FID	ACIS-S-5	7.24	9787	0.020	-0.006	0.006	0.011	0.000000	0.000000	-1806.27	176.50
3	GUIDE	692066072	8.19	19573	-0.031	-0.025	0.058	0.095	27.518624	-13.704241	-2290.11	1256.98
4	GUIDE	692067064	8.46	19551	-0.048	0.031	0.090	0.136	28.275146	-14.459559	-1053.10	-2326.54
5	GUIDE	692064856	9.11	19569	0.044	-0.059	0.069	0.112	27.844359	-13.441810	-857.20	1629.39
6	GUIDE	692067256	8.89	19567	0.012	0.067	0.065	0.106	28.829272	-14.105112	1240.13	-1998.37
7	GUIDE	692065096	9.26	19566	0.022	-0.010	0.074	0.120	28.419979	-13.250038	1261.35	1396.12

2.4 Star Slots

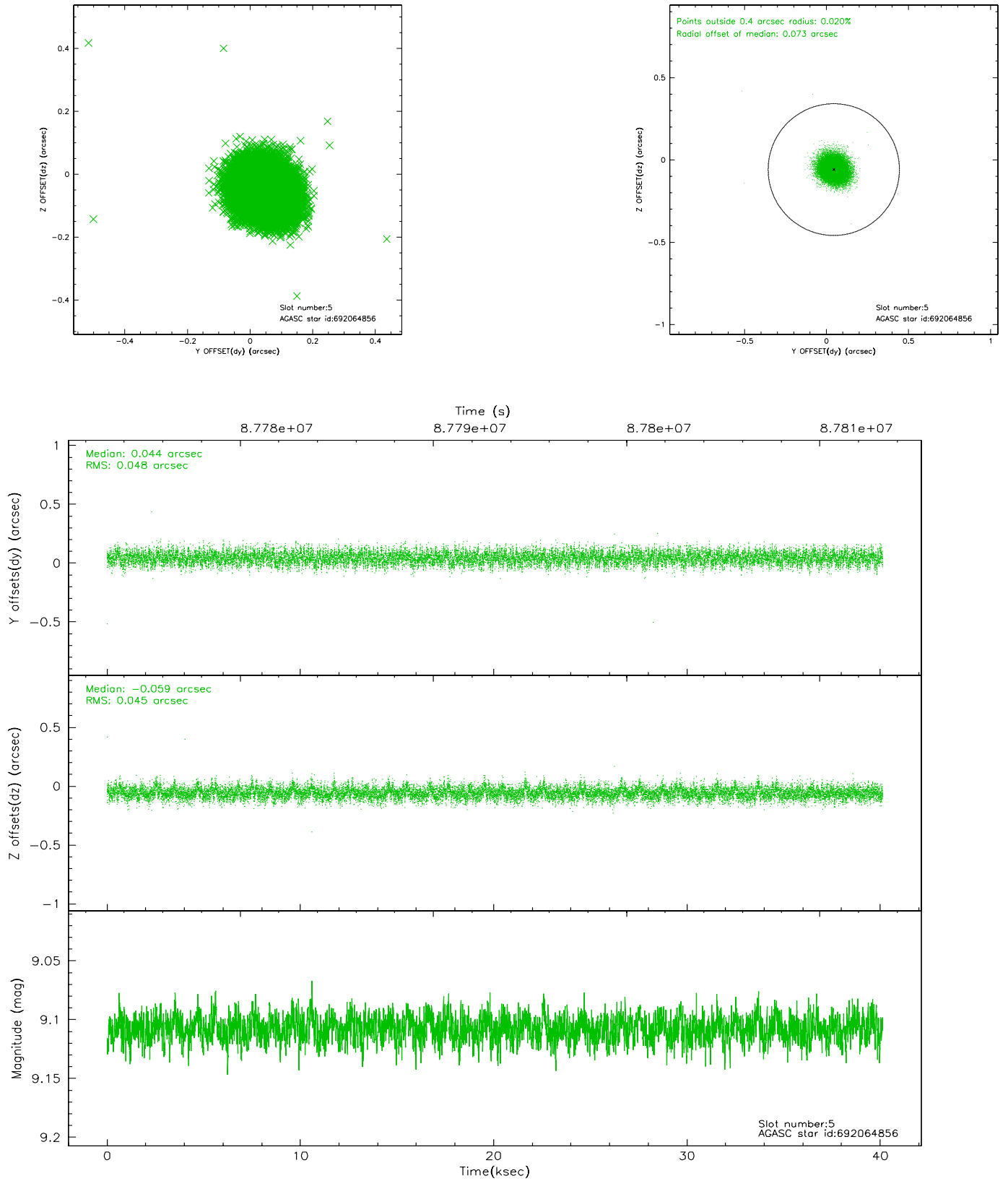
2.4.1 Slot 3



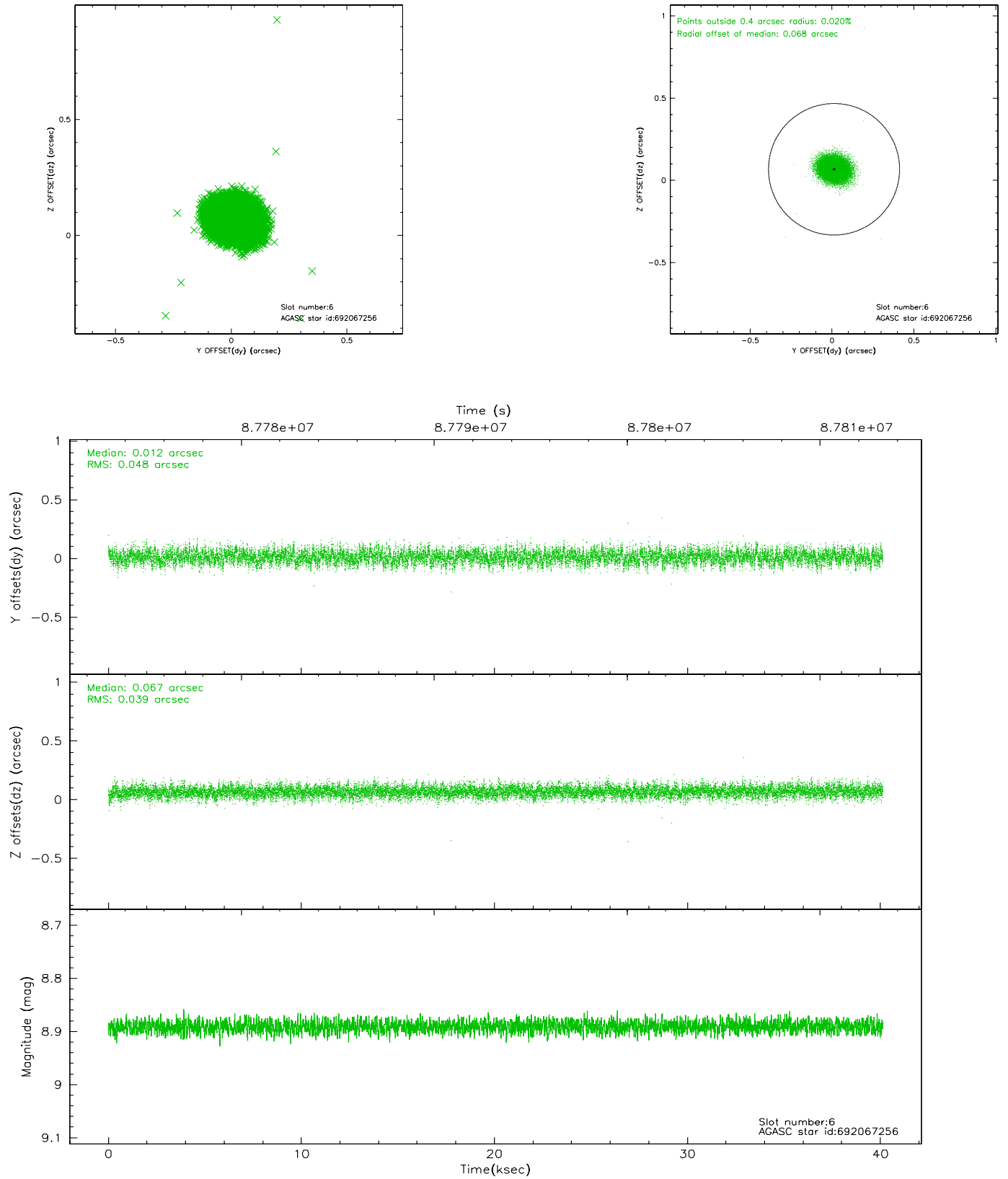
2.4.2 Slot 4



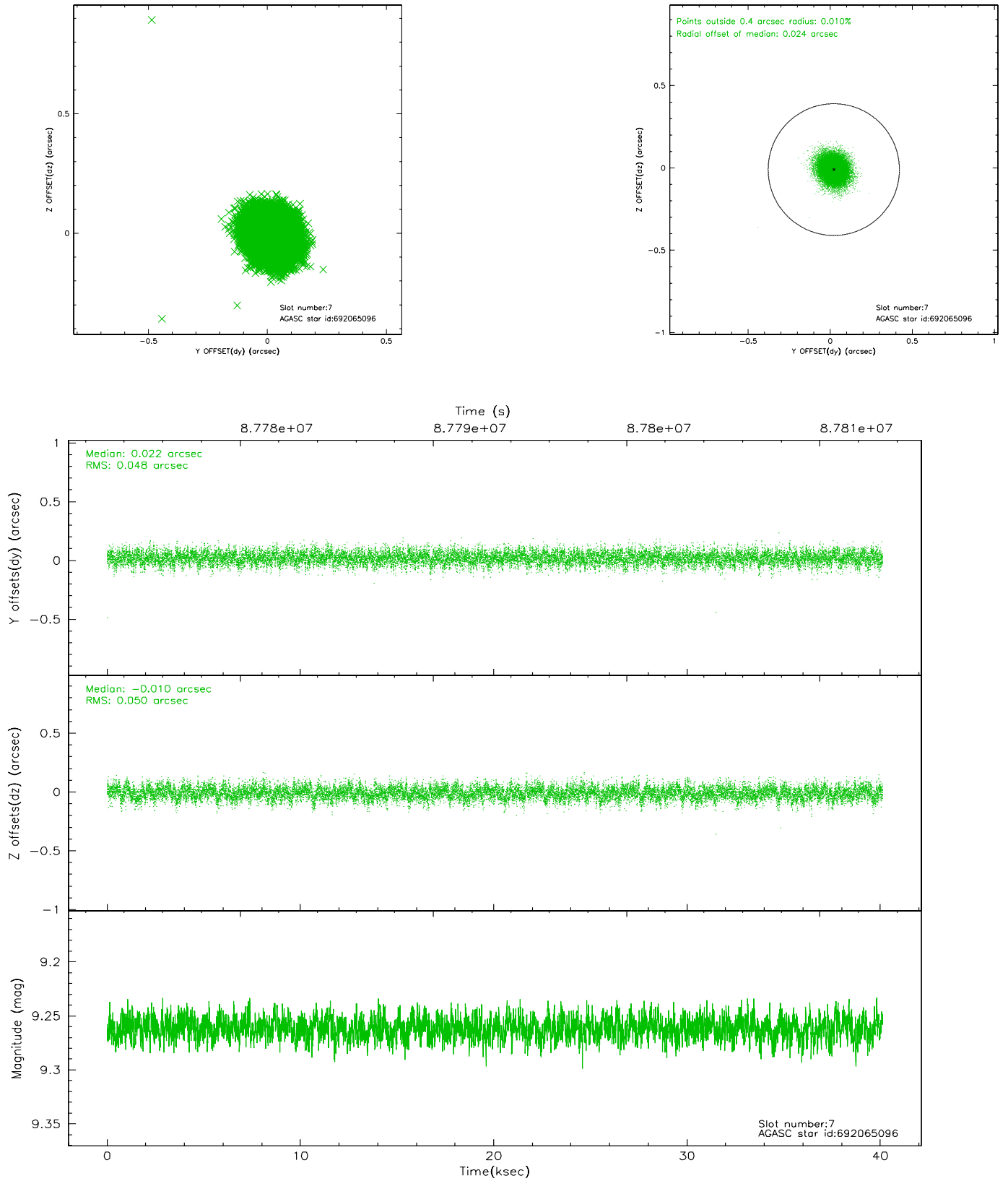
2.4.3 Slot 5



2.4.4 Slot 6

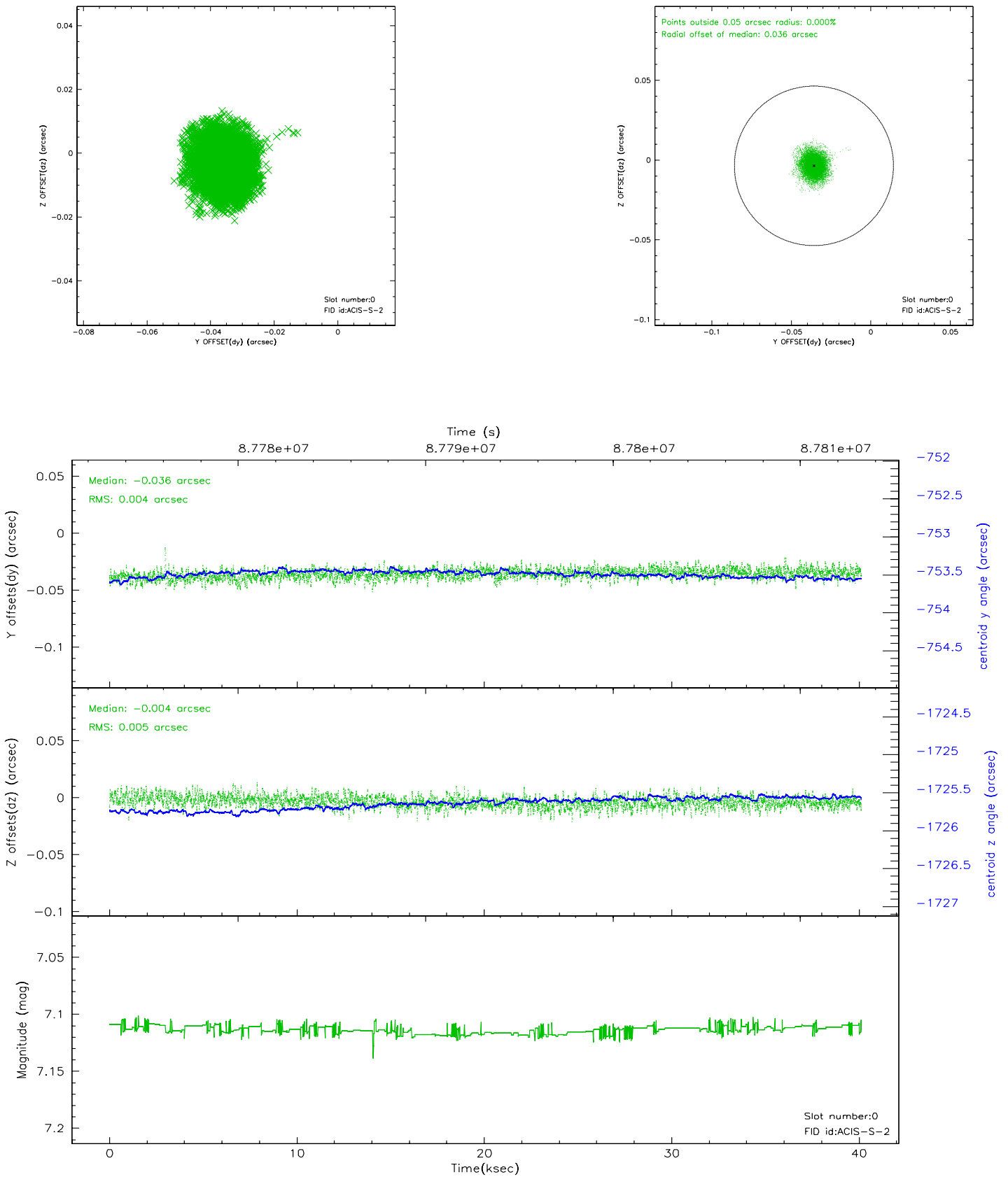


2.4.5 Slot 7

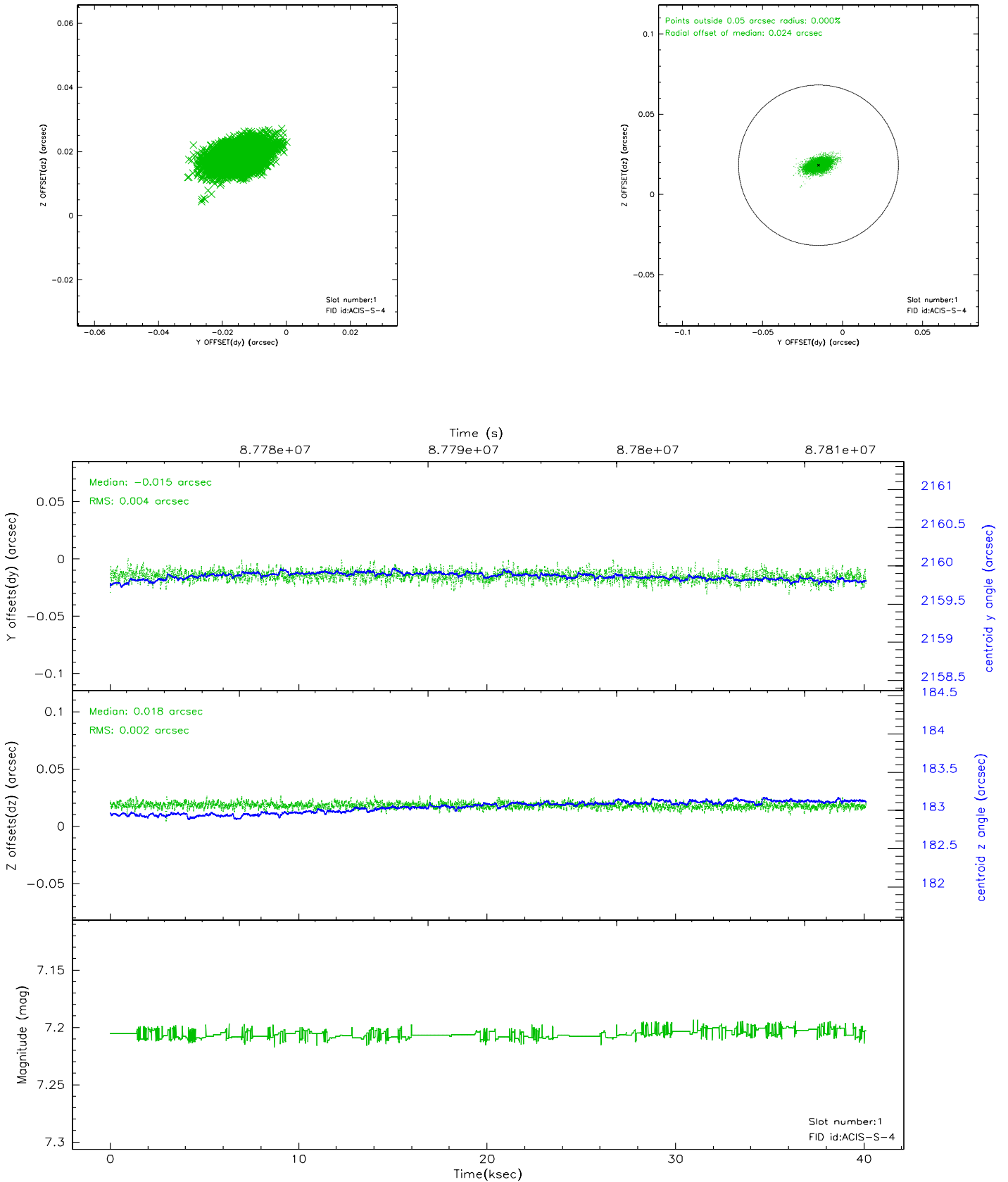


2.5 FID Slots

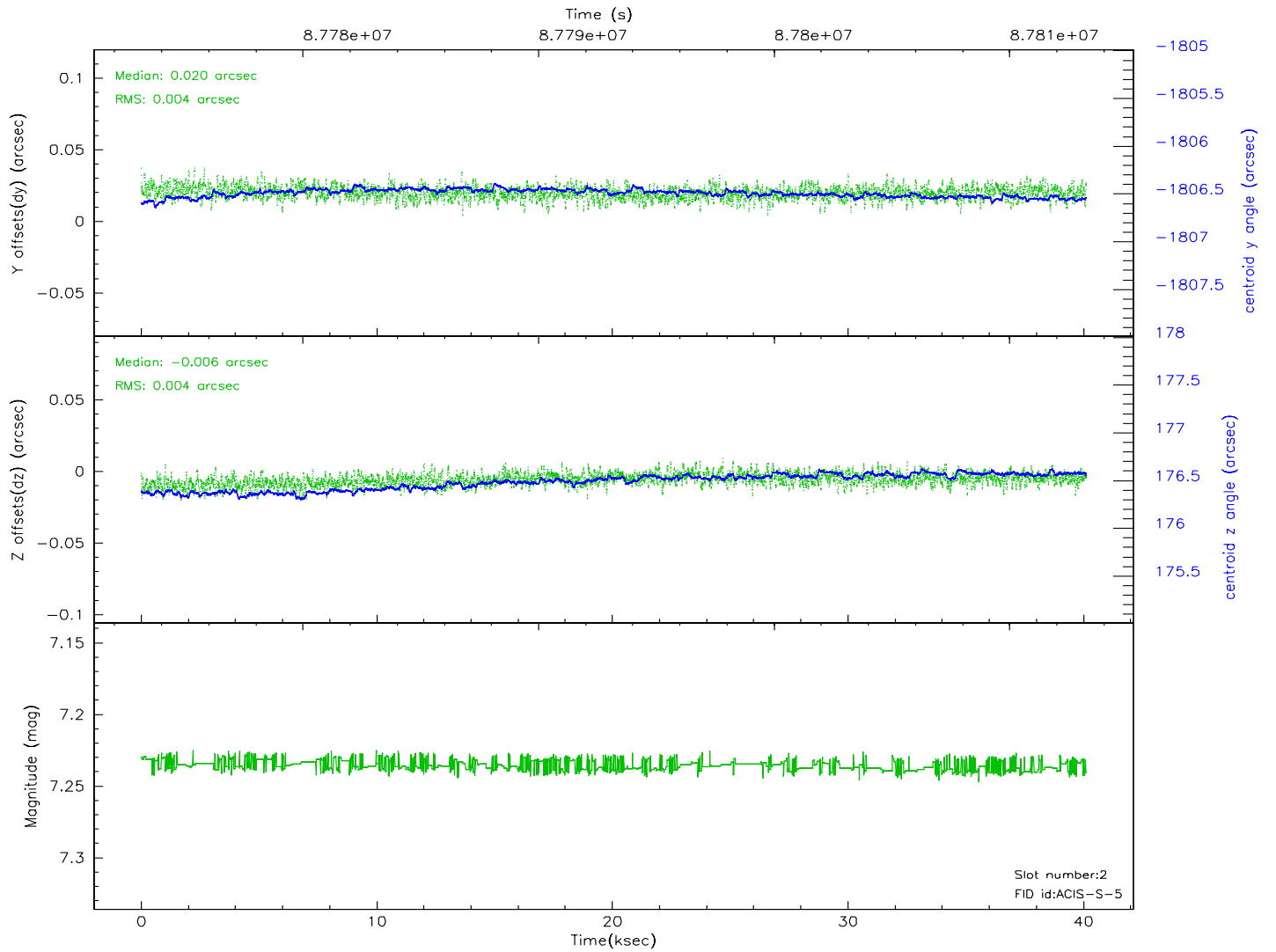
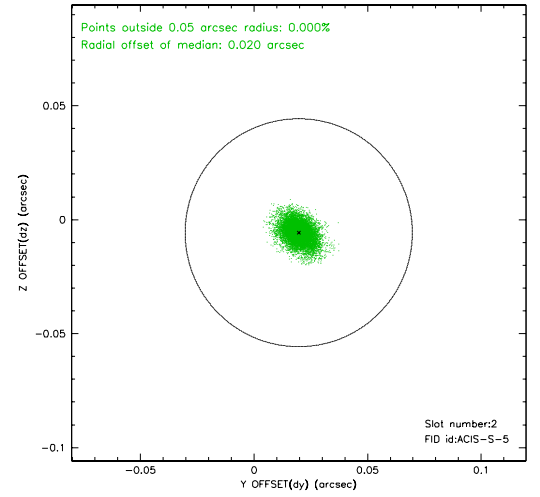
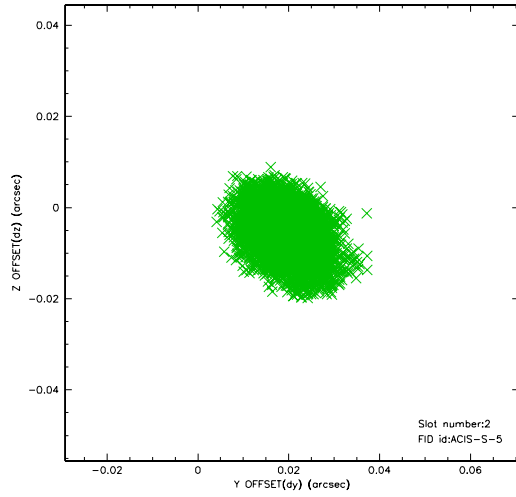
2.5.1 Slot 0



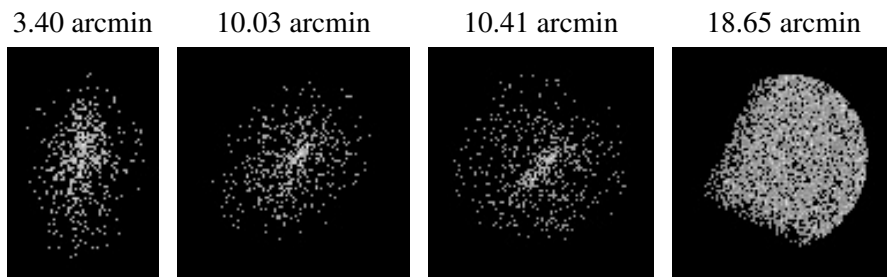
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.06.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.124

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the first 4 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-illuminated 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.