

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 751 - L2 Version 001
Chandra X-Ray Center

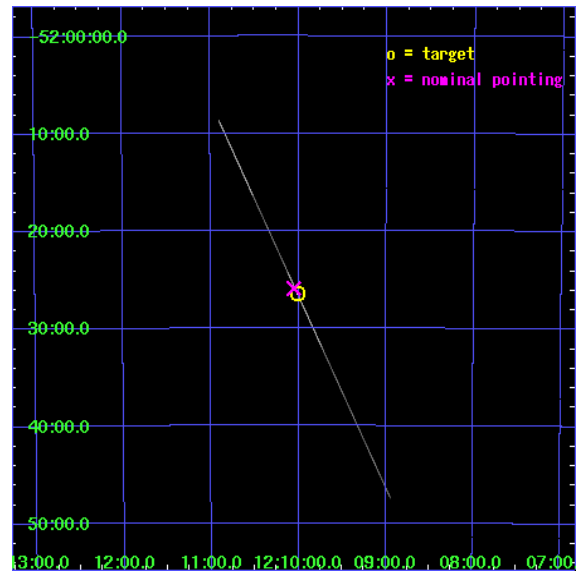
L2 Processing Date : Jun 14 2007

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1 Front

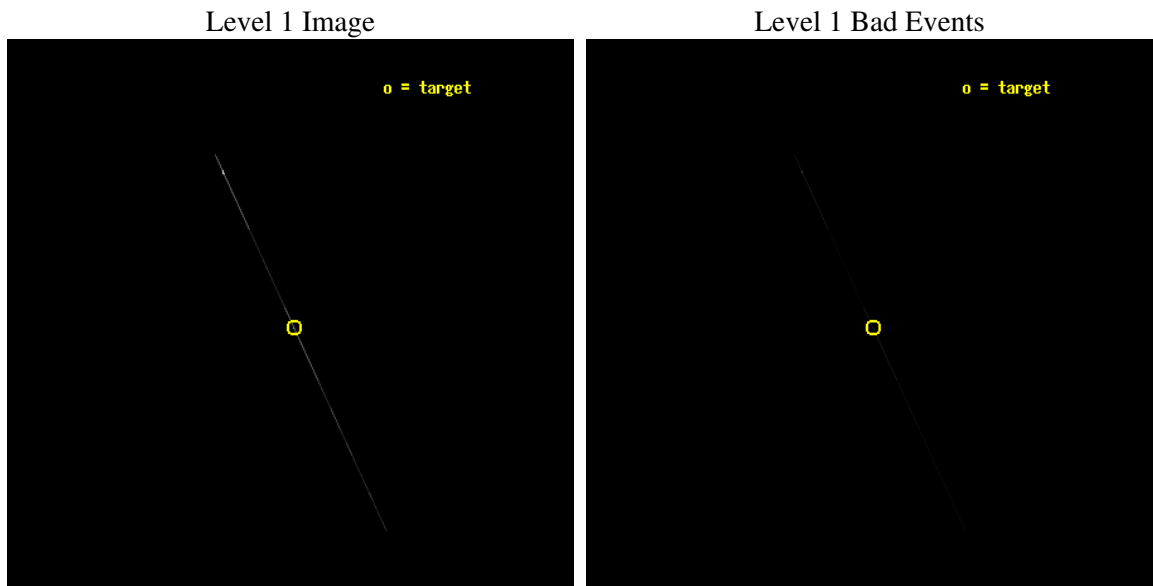
seq_num	500047
obs_id	751
title	RADIO-SILENT NEUTRON STARS IN SUPERNOVA REMNANTS
observer	Dr. George Pavlov
object	1E 1207.4-5209
ra_targ	182.503333
dec_targ	-52.440278
ra_nom	182.51303365515
dec_nom	-52.432003529541
roll_nom	65.202152319961
revision	3
ontime	32485.291850545
livetime	32358.396179253
ontime5	32486.75
ontime6	32486.75
ontime7	32485.291850545
ontime8	32486.75
ontime9	32486.75
l2events	443109



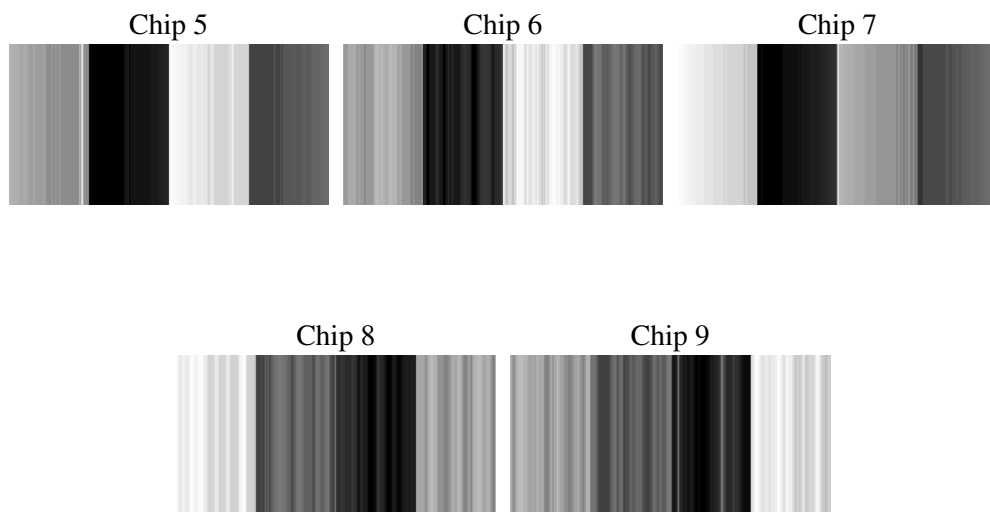
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-15T01:15:30
revision	3

sched_exp_time	32000.000000
ontime	32485.291850545
ontime5	32486.75
ontime6	32486.75
ontime7	32485.291850545
ontime8	32486.75
ontime9	32486.75
l1events	1285302

2.1.4 Events

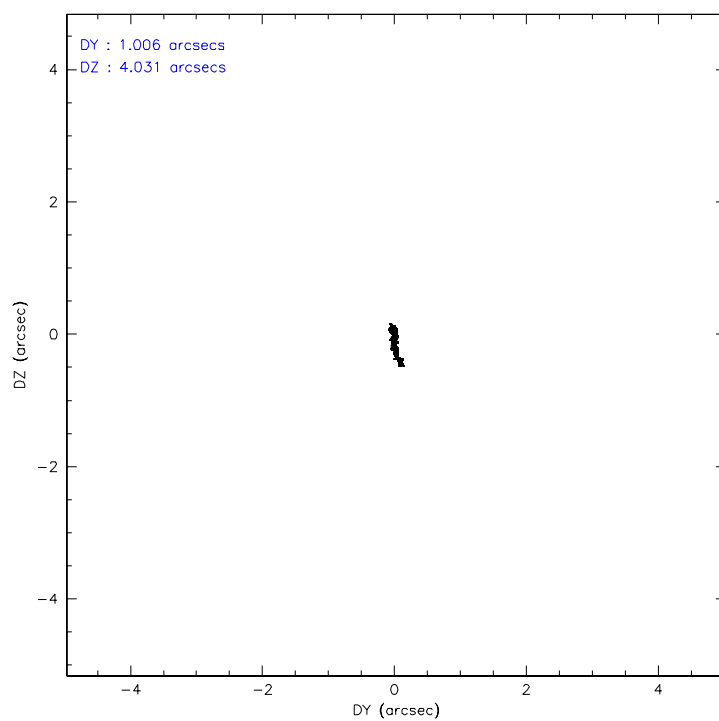
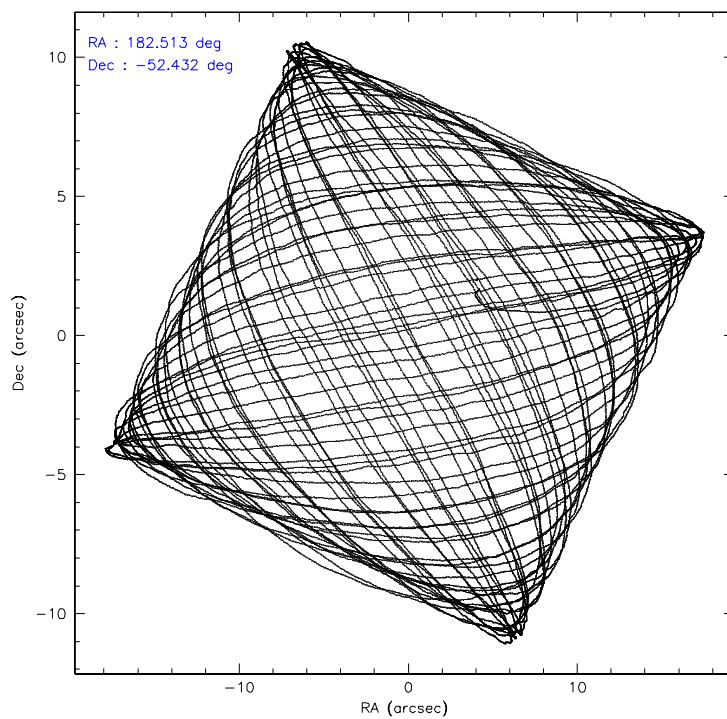
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	920750	41341	206030	74788	42393
rejected events	18333	5669	16798	8253	6335
rejected %	1%	13%	8%	11%	14%

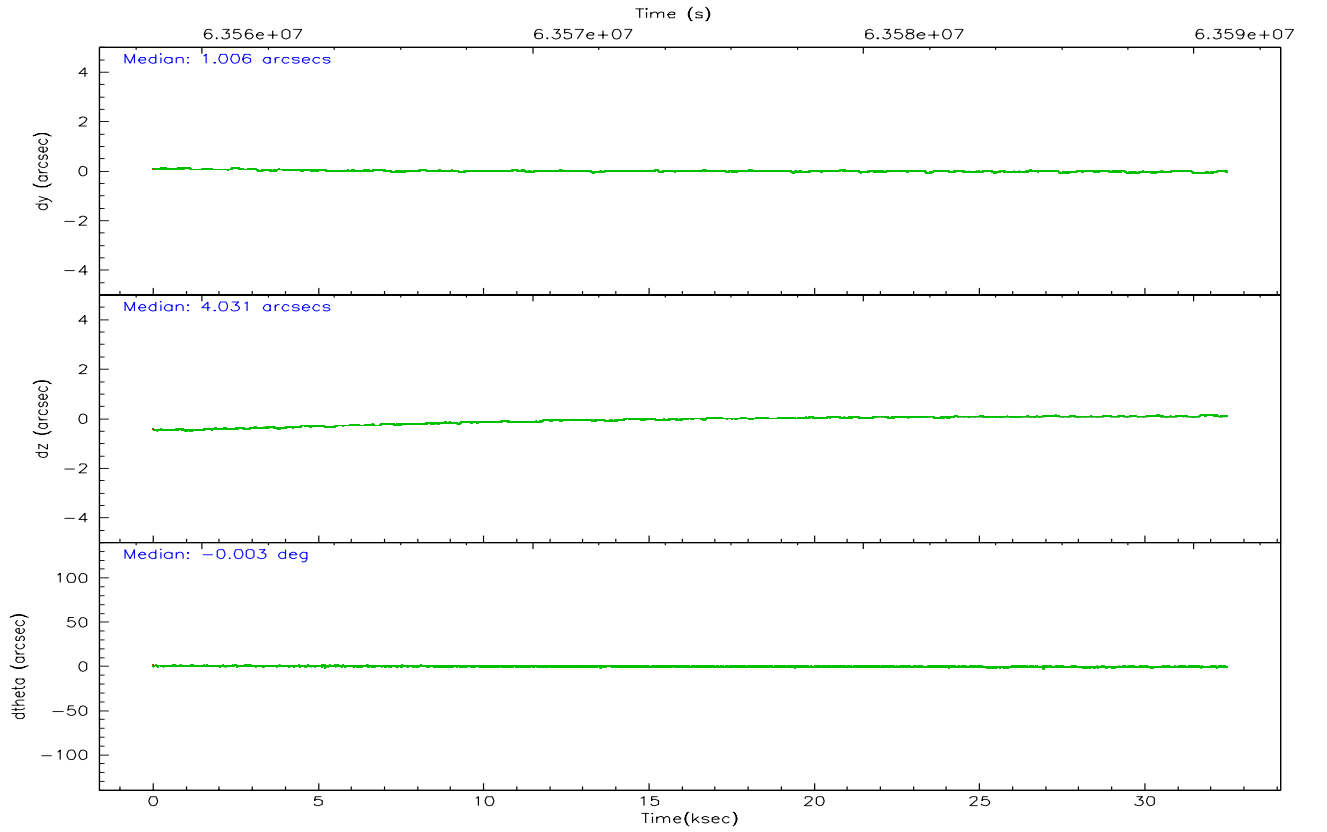
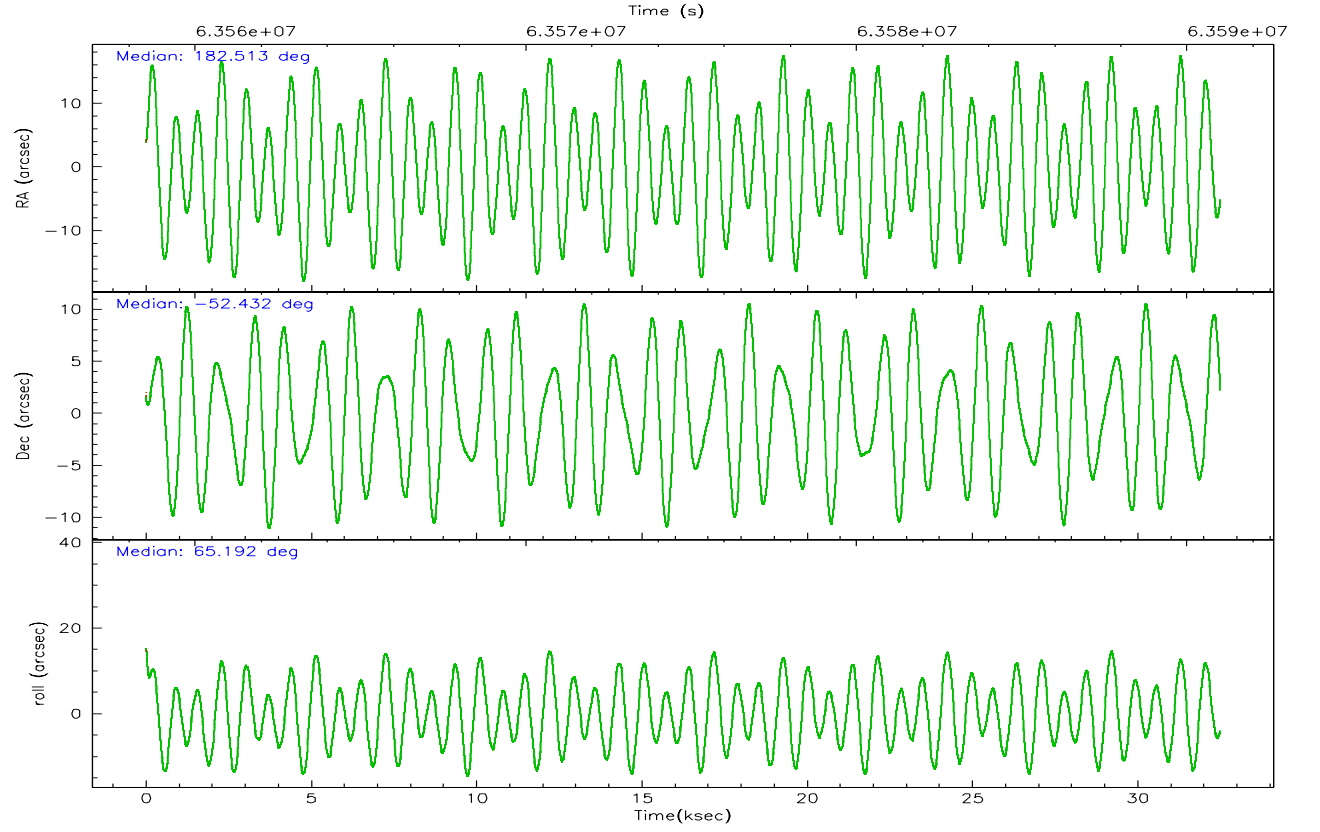
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	527385	3929	30502	13392	5053
	57%	9%	14%	17%	11%
grade 1 events	931	124	262	208	136
	0%	0%	0%	0%	0%
grade 2 events	264189	12957	43277	19892	11358
	28%	31%	21%	26%	26%
grade 3 events	11038	6776	16880	9320	6418
	1%	16%	8%	12%	15%
grade 4 events	10281	6488	15909	9308	7227
	1%	15%	7%	12%	17%
grade 5 events	14498	5426	16137	7832	6087
	1%	13%	7%	10%	14%
grade 6 events	92428	5641	83063	14836	6114
	10%	13%	40%	19%	14%
grade 7 events	0	0	0	0	0
	0%	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-56789	ACIS-56789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	182.517066	182.5130336551484	Subarray requested	NONE	NONE
Pointing Dec	-52.459424	-52.43200352954139	Alternating exposures requested	N	N
Pointing Roll	65.048715	65.20215231996124	Primary exposure time	0.000000	0
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	63559005.184000	63558129.803016			
Observation start date	2000-01-06T15:15:41	2000-01-06T15:02:09			
Observation end time	63591005.184000	63592303.816756			
Observation end date	2000-01-07T00:09:01	2000-01-07T00:31:43			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



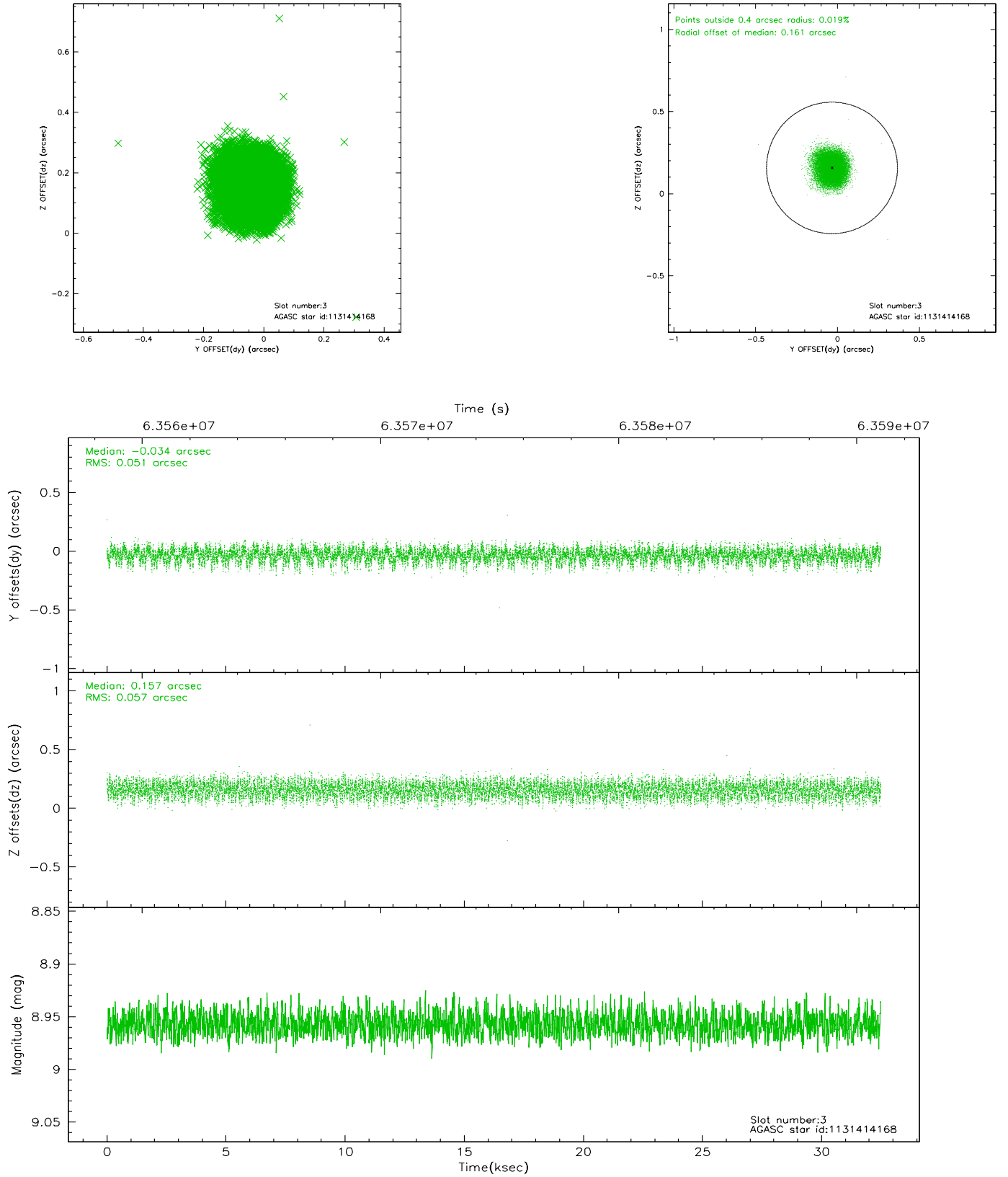


Slot Statistics

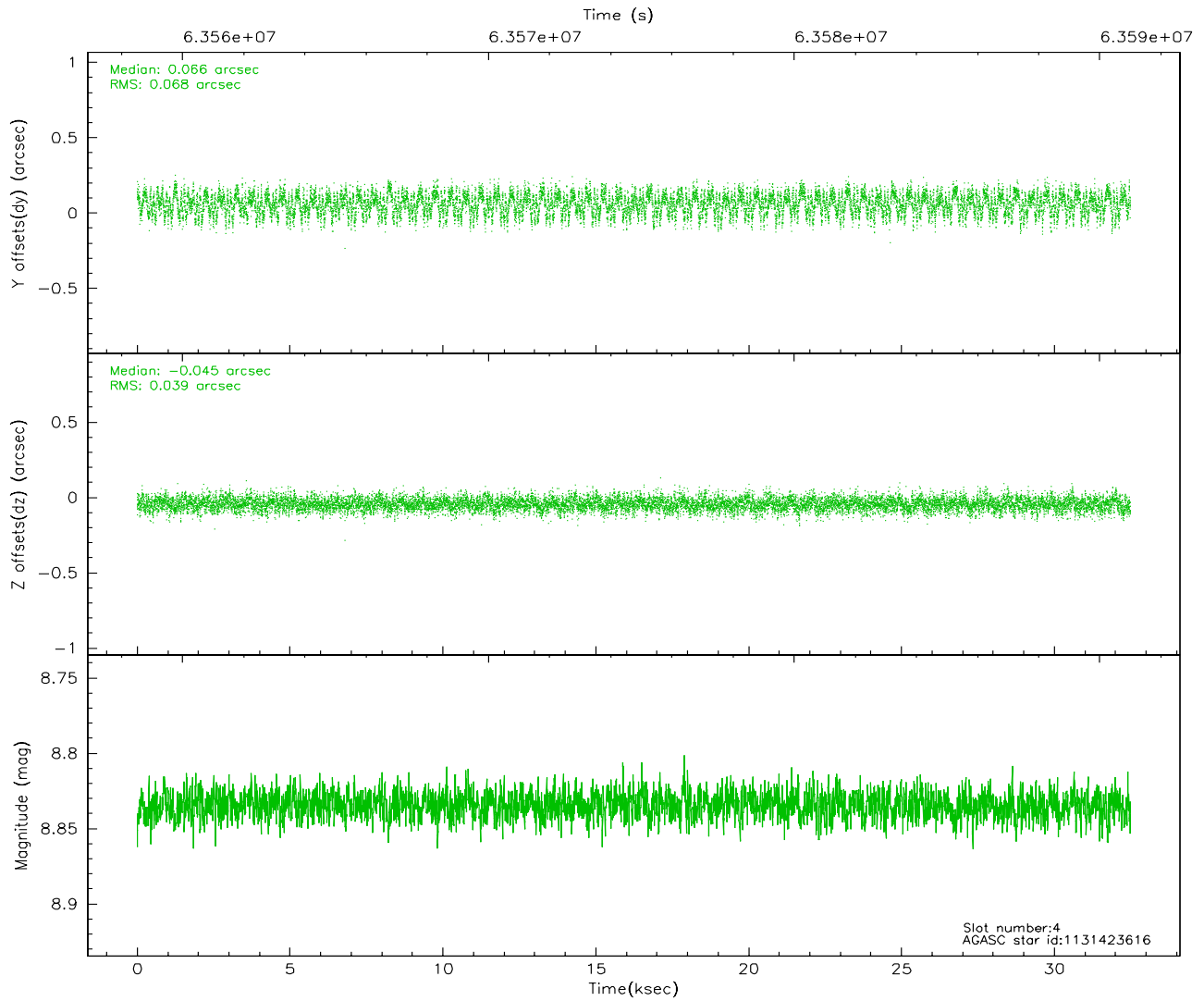
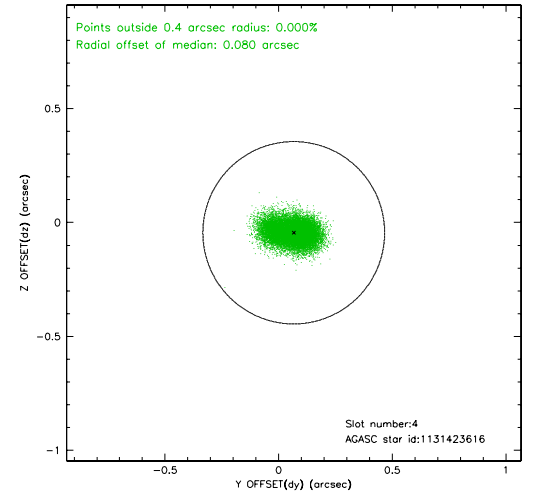
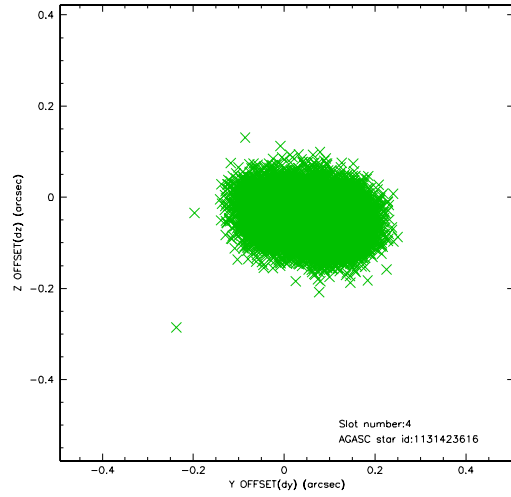
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.36	15848	0.007	0.016	0.011	0.020	0.000000	0.000000	59.56	-1854.09
1	FID	ACIS-S-4	7.21	15849	-0.038	-0.010	0.006	0.010	0.000000	0.000000	2159.72	183.42
2	FID	ACIS-S-5	7.24	15850	0.003	0.004	0.008	0.015	0.000000	0.000000	-1806.50	177.16
3	GUIDE	1131414168	8.96	15845	-0.034	0.157	0.083	0.128	183.224863	-52.915912	-847.89	-2089.92
4	GUIDE	1131423616	8.83	15842	0.066	-0.045	0.084	0.135	182.073492	-52.590429	-839.19	678.58
5	GUIDE	1131424824	9.24	15840	0.044	-0.084	0.074	0.120	181.758646	-52.547110	-994.31	1367.84
6	GUIDE	1080309976	9.40	15843	-0.181	0.196	0.080	0.131	183.762069	-52.214320	1937.68	-2127.37
7	GUIDE	1131417408	9.88	15833	0.101	-0.226	0.130	0.215	181.139877	-52.694143	-2059.43	2354.57

2.4 Star Slots

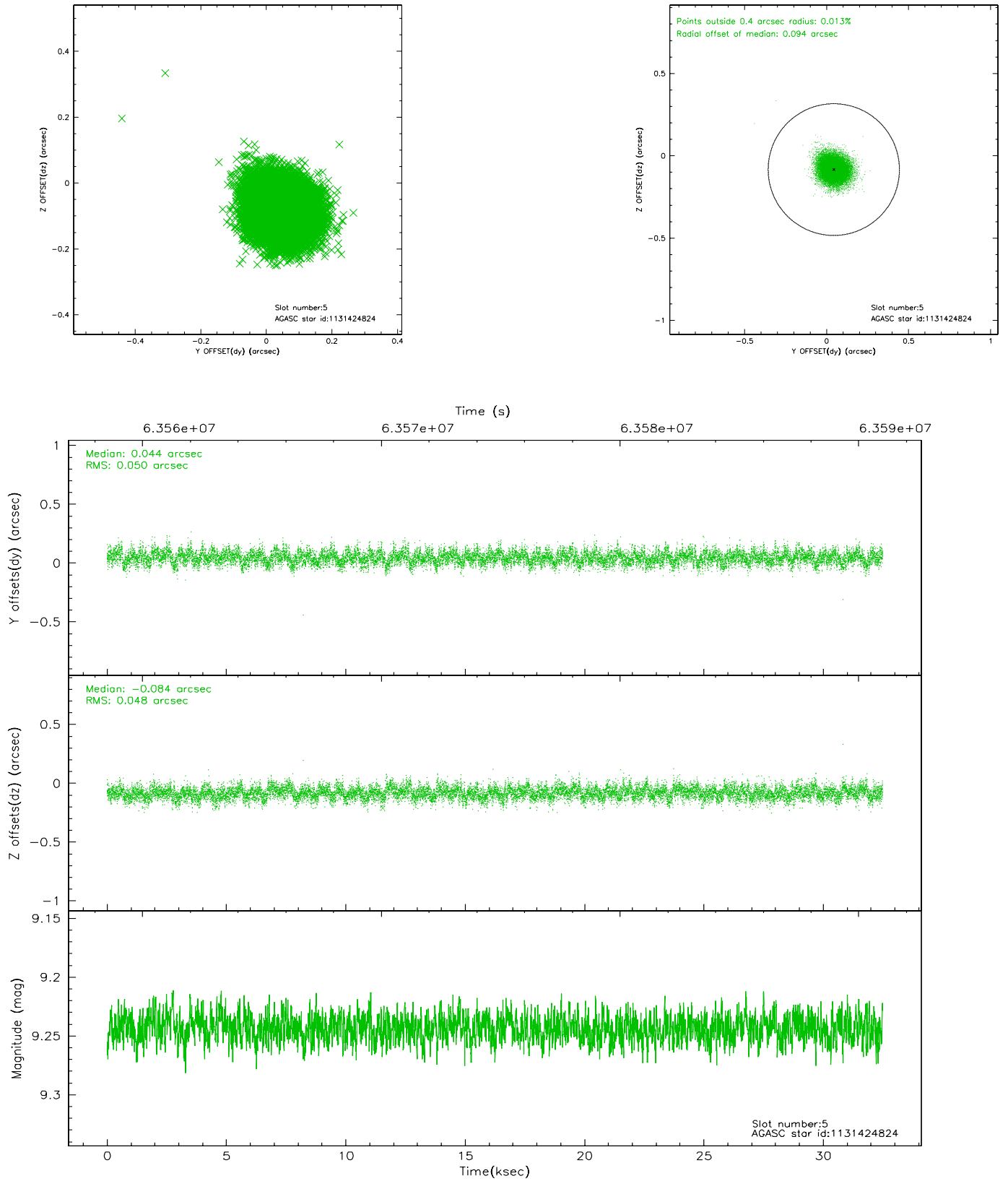
2.4.1 Slot 3



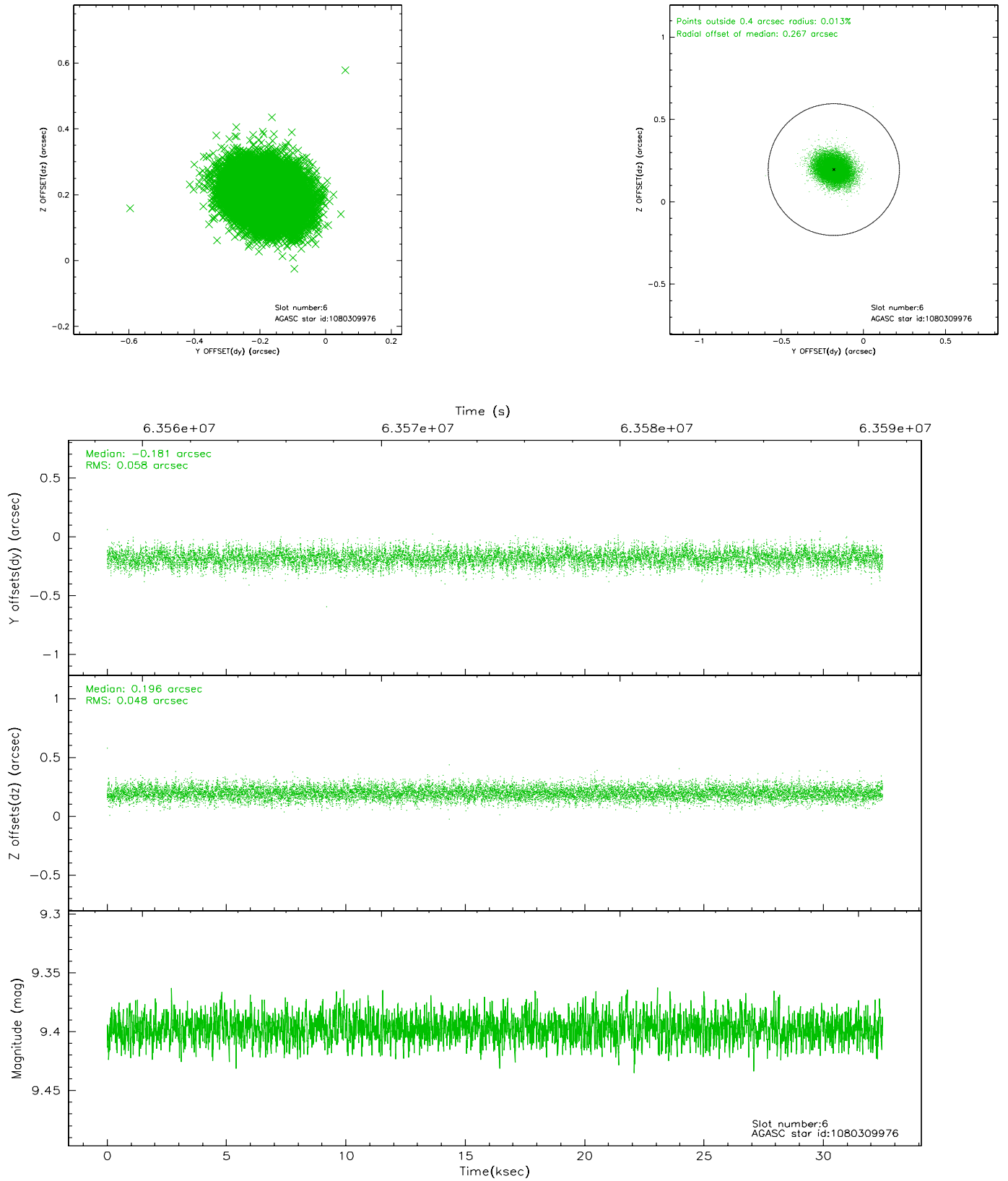
2.4.2 Slot 4



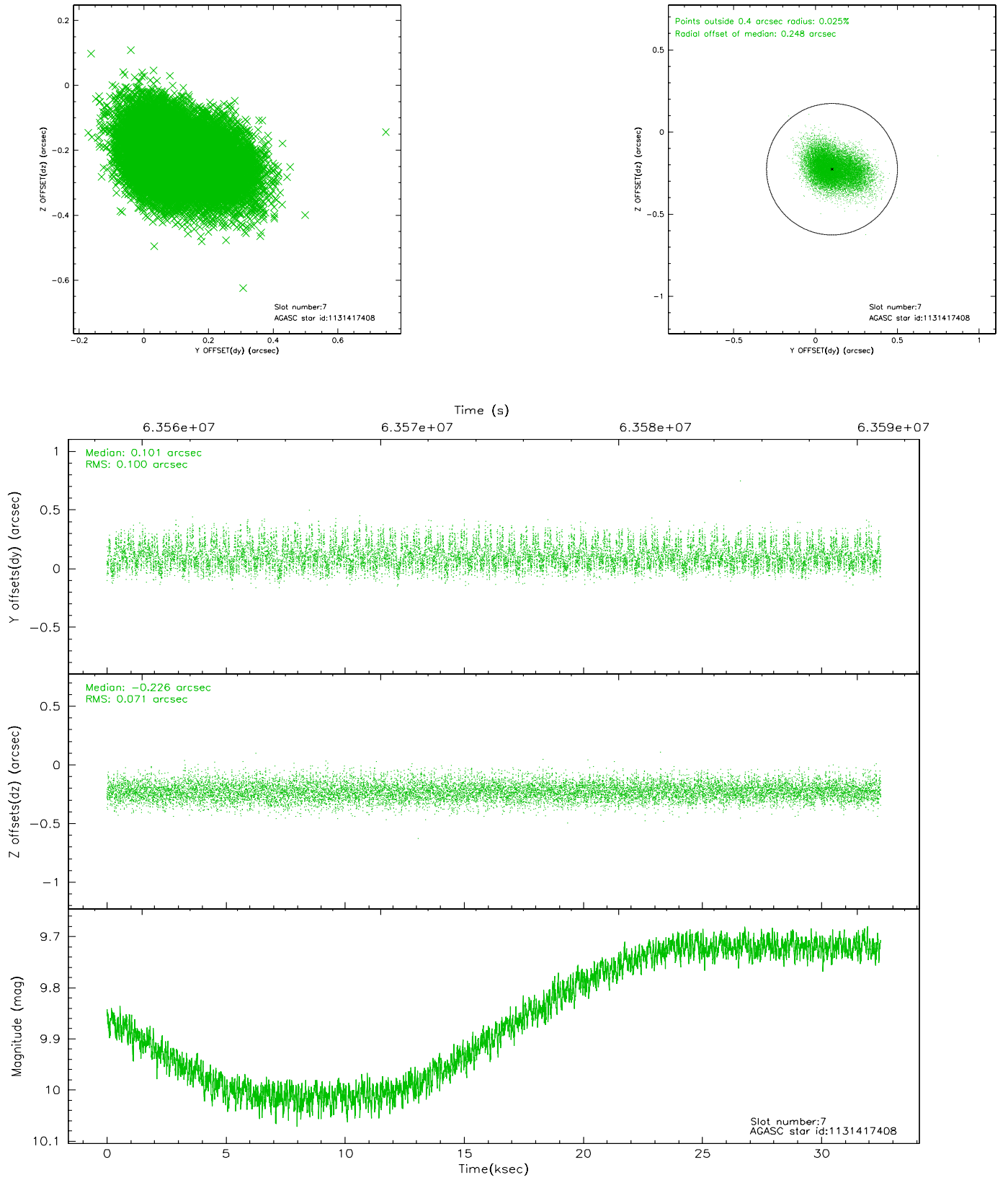
2.4.3 Slot 5



2.4.4 Slot 6

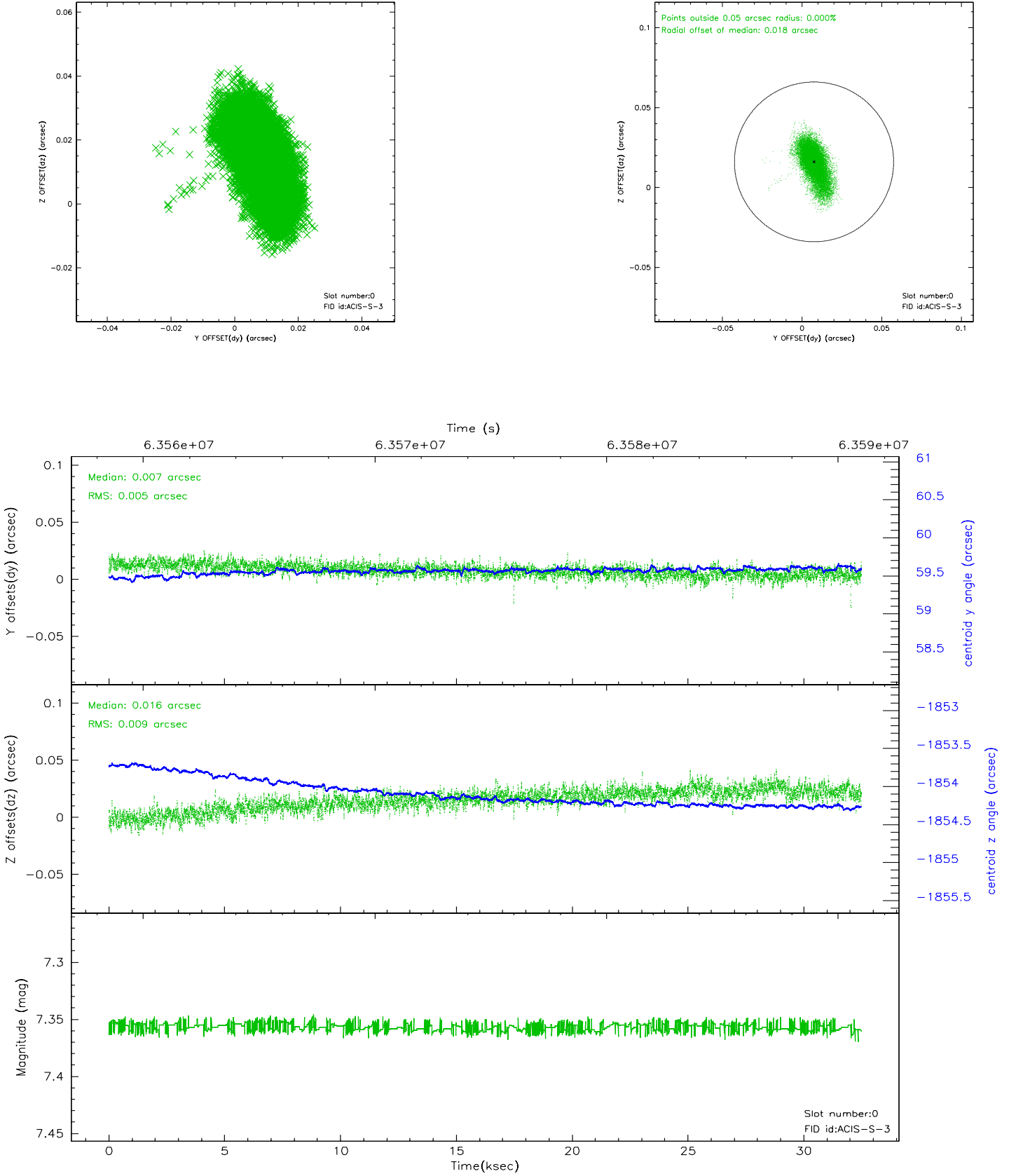


2.4.5 Slot 7

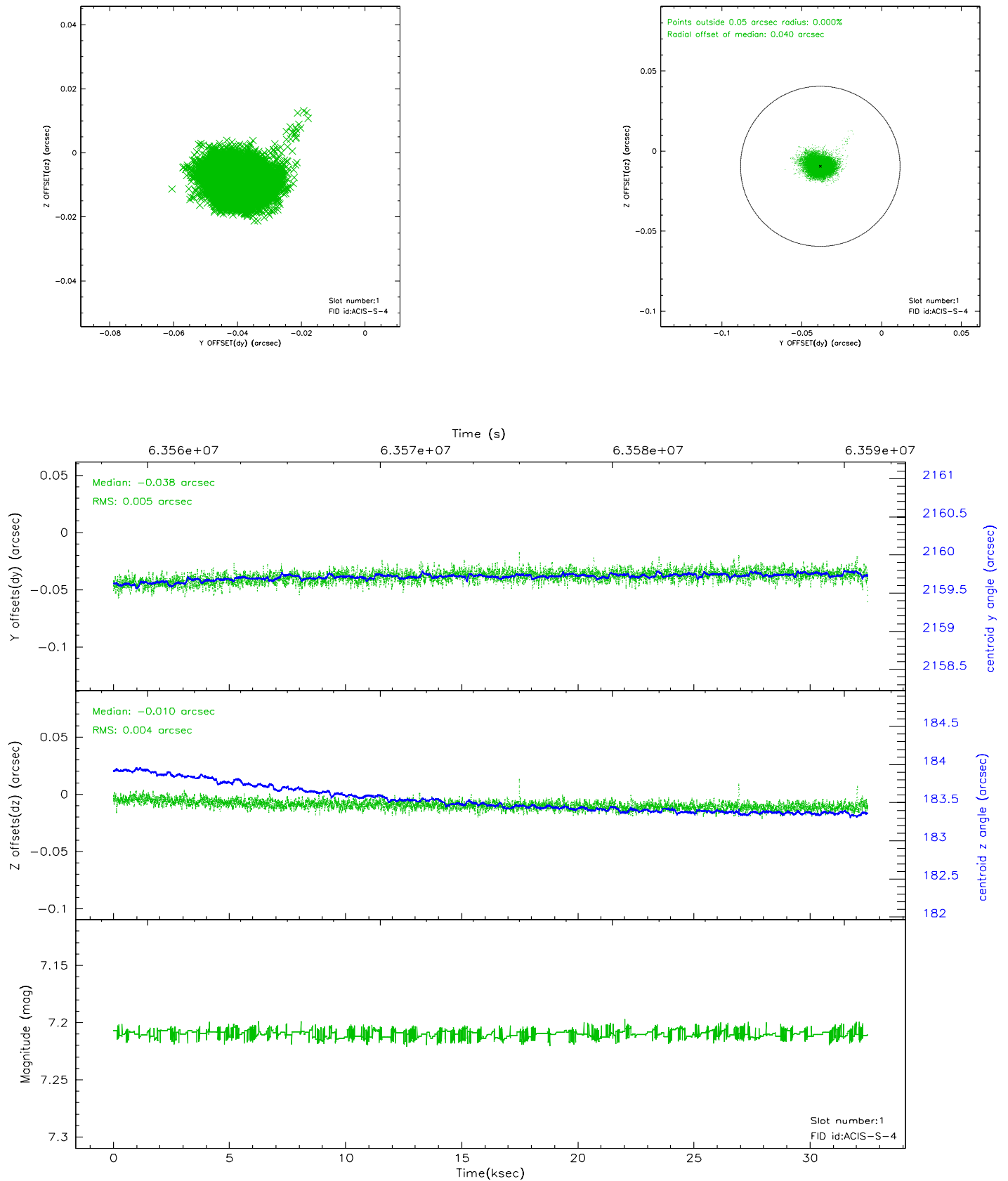


2.5 FID Slots

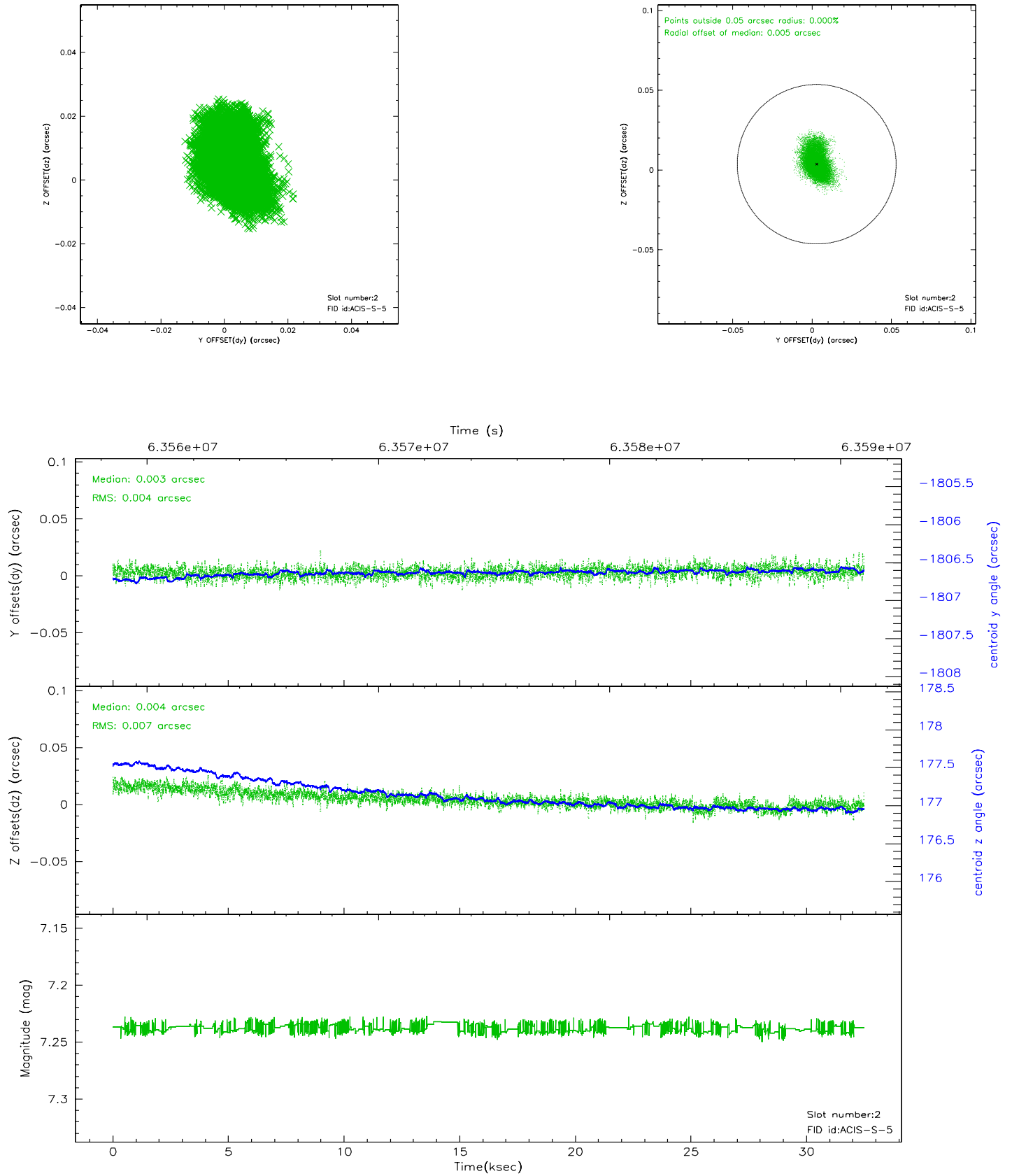
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2007.06.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.465

A.2 Comments

This observation was taken at a focal plane temperature of -110 degrees C.

There is currently no accurate calibration for observations at this focal plane temperature. Focal plane temperature is warmer than -118.7 C degrees during the entire observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is warmer than -116.7 degrees C for the entire observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: 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.