

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 72 - L2 Version 5
Chandra X-Ray Center

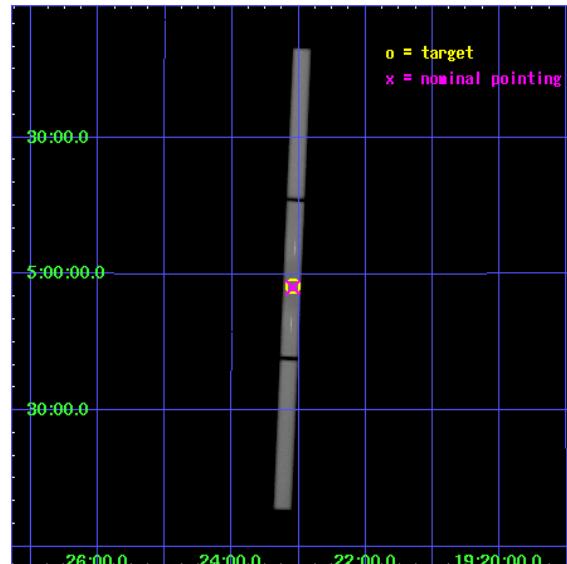
L2 Processing Date : Aug 3 2007

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1 Front

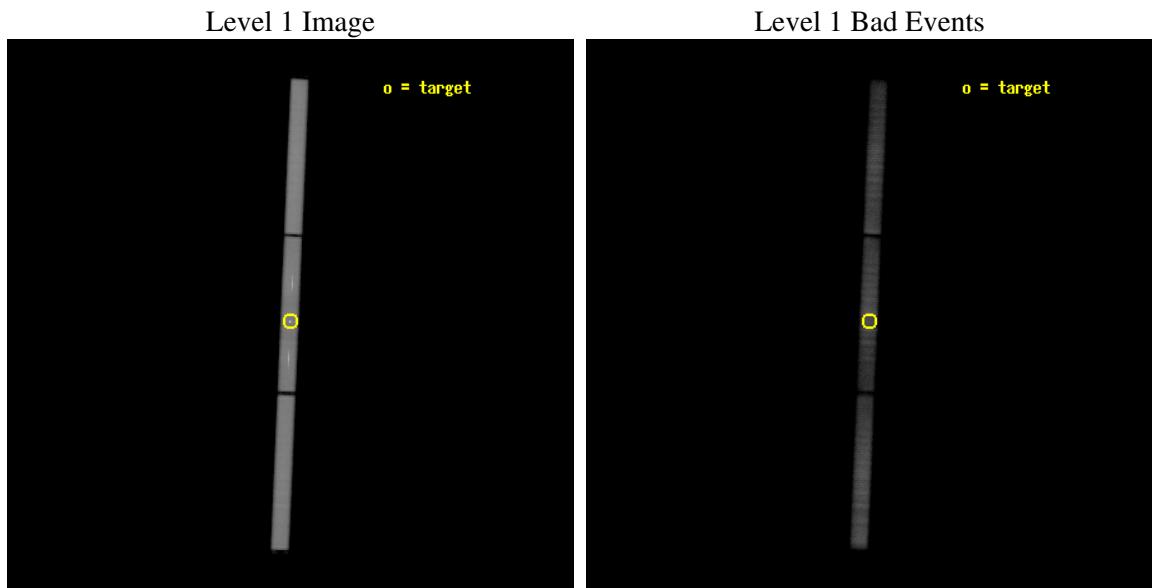
seq_num	300034
obs_id	72
title	MULTIWAVELENGTH TOO OBSERVATIONS OF BRIGHT NOVAE IN OUTBURST
observer	Professor Sumner Starrfield
object	V1494 Aql
ra_targ	290.772
dec_targ	4.956
ra_nom	290.77198597414
dec_nom	4.9510877252236
roll_nom	272.38833896182
revision	5
ontime	18234.750687808
livetime	18069.135218177
l2events	1466631



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-09T14:28:50
revision	4

sched_exp_time	18160.745000
ontime	18234.750687808
l1events	1983609

2.1.3 Events

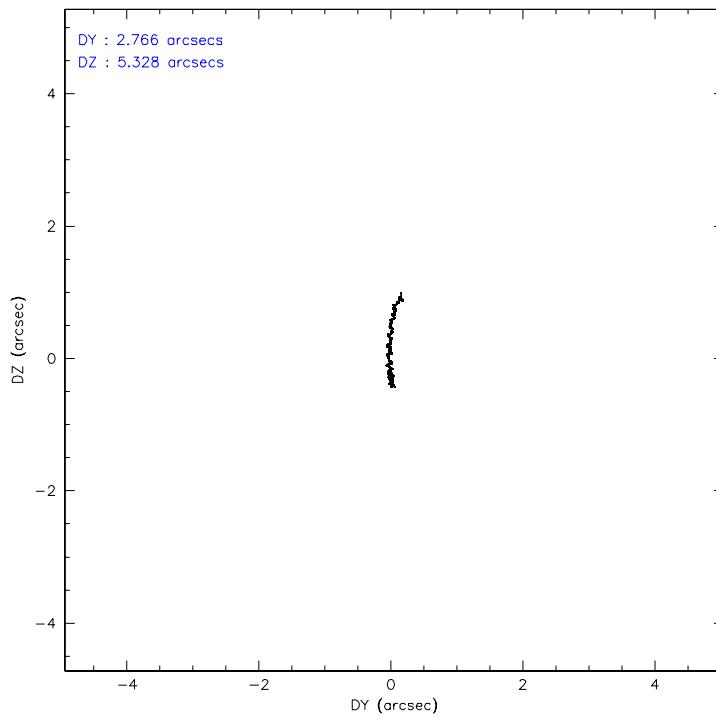
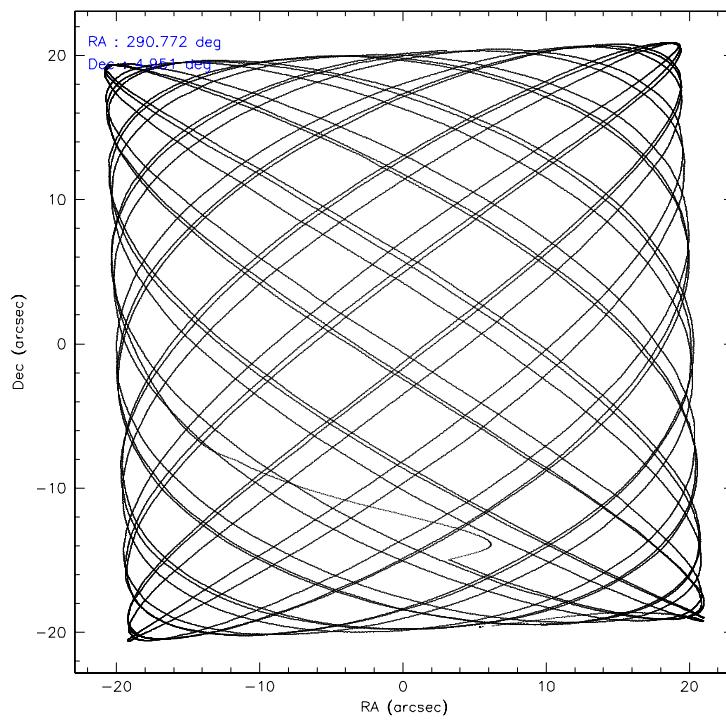
Level 1 Events

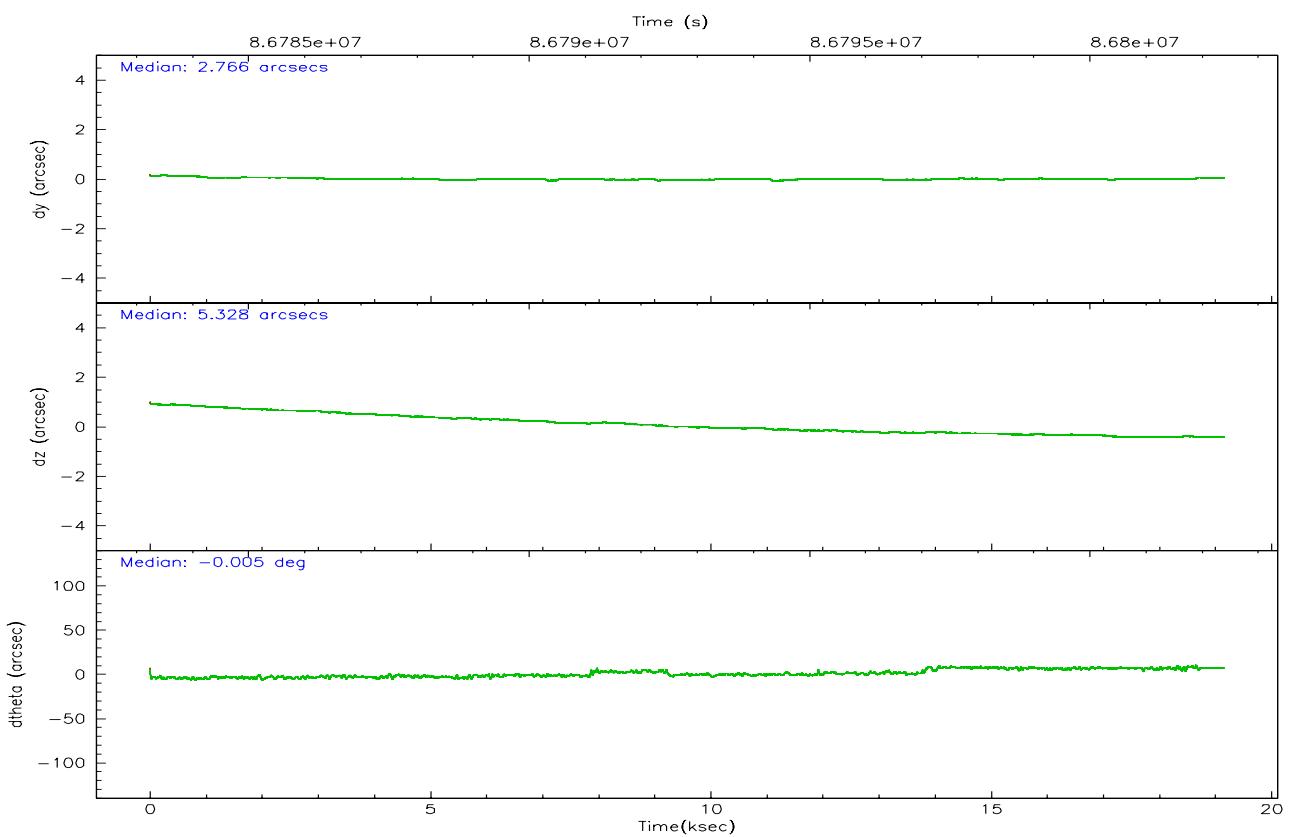
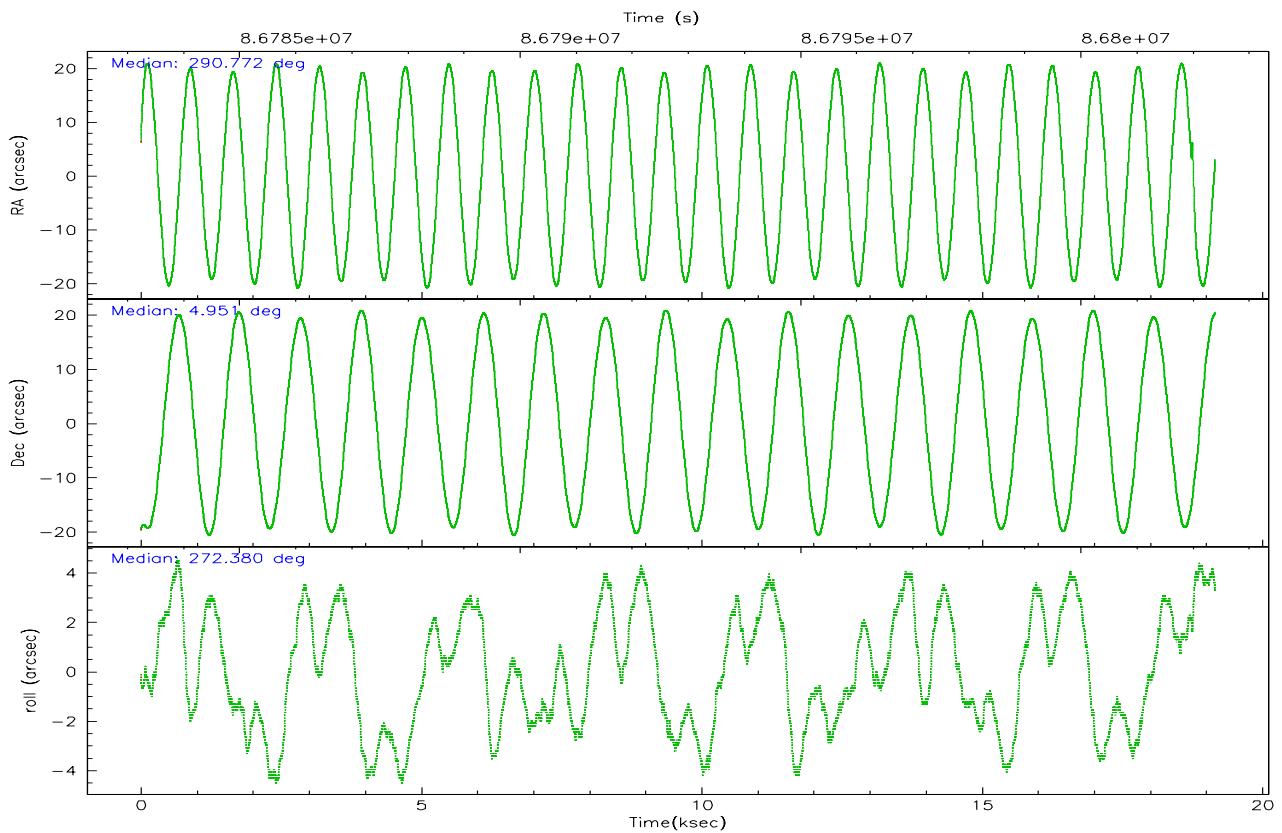
	segment 1	segment 2	segment 3
level 1 events	702972	649801	630836
rejected events	118962	122479	148325
rejected %	16%	18%	23%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	290.755498	290.7719859741384			
Pointing Dec	4.974684	4.951087725223612			
Pointing Roll	272.322436	272.3883389618189			
SIM focus pos (mm)	-1.429586	-1.428180813131781			
SIM defocus (mm)	0.1037507710433287	0.1051558262725154			
SIM translation stage pos (mm)	250.455976	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	86783332.184000	86782136.375449			
Observation start date	2000-10-01T10:27:48	2000-10-01T10:08:56			
Observation end time	86801493.184000	86803177.576242			
Observation end date	2000-10-01T15:30:29	2000-10-01T15:59:37			

2.3 Aspect



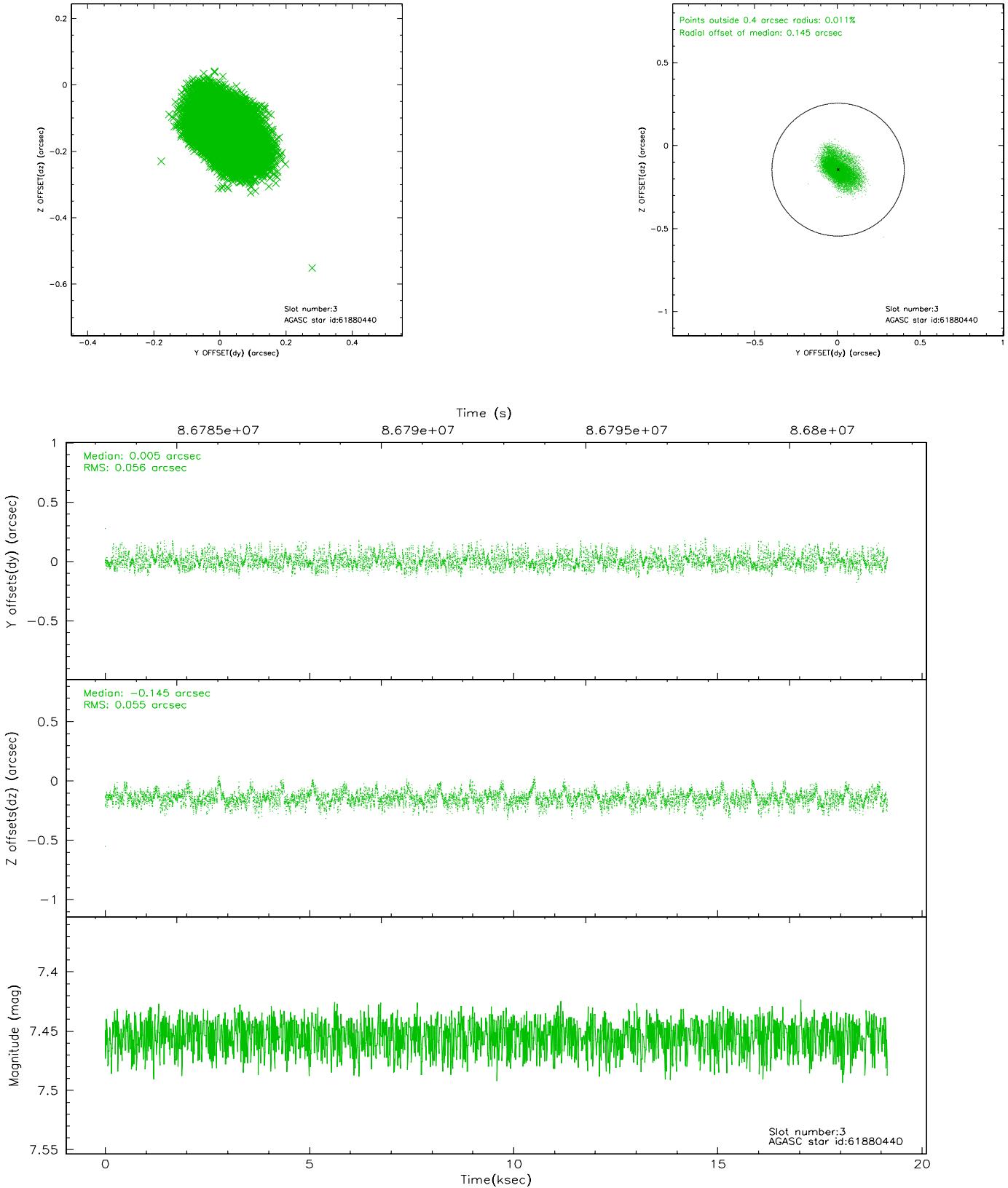


Slot Statistics

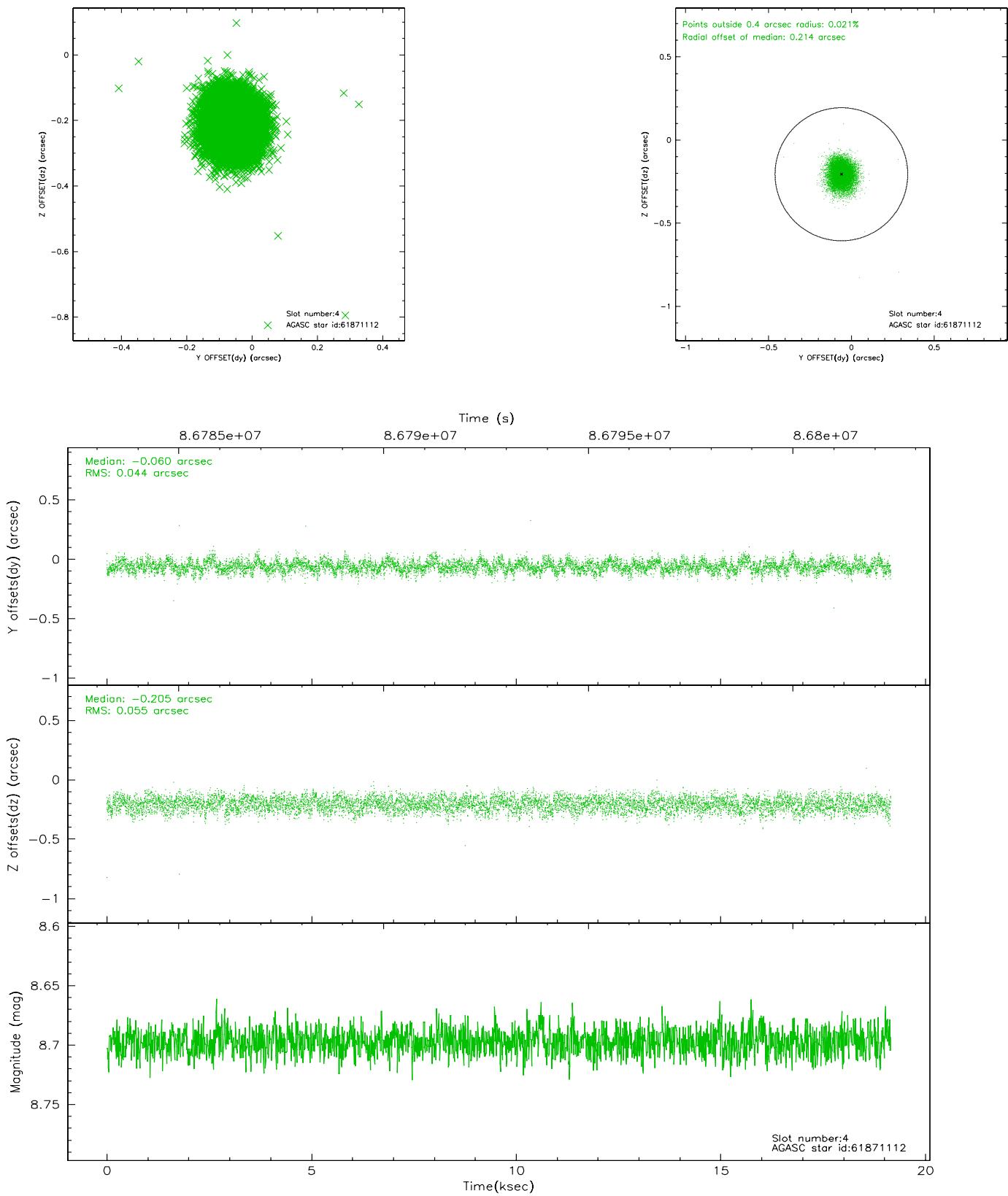
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.00	4574	0.109	-0.162	0.019	0.030	0.000000	0.000000	-1156.82	-454.00
1	FID	HRC-S-3	7.02	4572	0.144	-0.041	0.019	0.035	0.000000	0.000000	-1159.79	575.54
2	FID	HRC-S-4	6.97	4571	0.134	-0.091	0.010	0.015	0.000000	0.000000	1241.18	578.33
3	GUIDE	61880440	7.45	9337	0.005	-0.145	0.083	0.139	290.081203	4.777895	609.82	-2445.27
4	GUIDE	61871112	8.70	9333	-0.060	-0.205	0.075	0.119	290.340849	5.123147	-593.80	-1463.91
5	GUIDE	62043480	8.89	9339	0.049	0.131	0.124	0.286	291.375882	4.831705	603.90	2203.37
6	GUIDE	62003248	9.09	9340	0.109	0.183	0.092	0.145	291.268960	4.592557	1449.24	1786.46
7	GUIDE	62021832	9.25	9335	-0.101	0.052	0.086	0.140	290.889874	5.387344	-1464.17	541.99

2.4 Star Slots

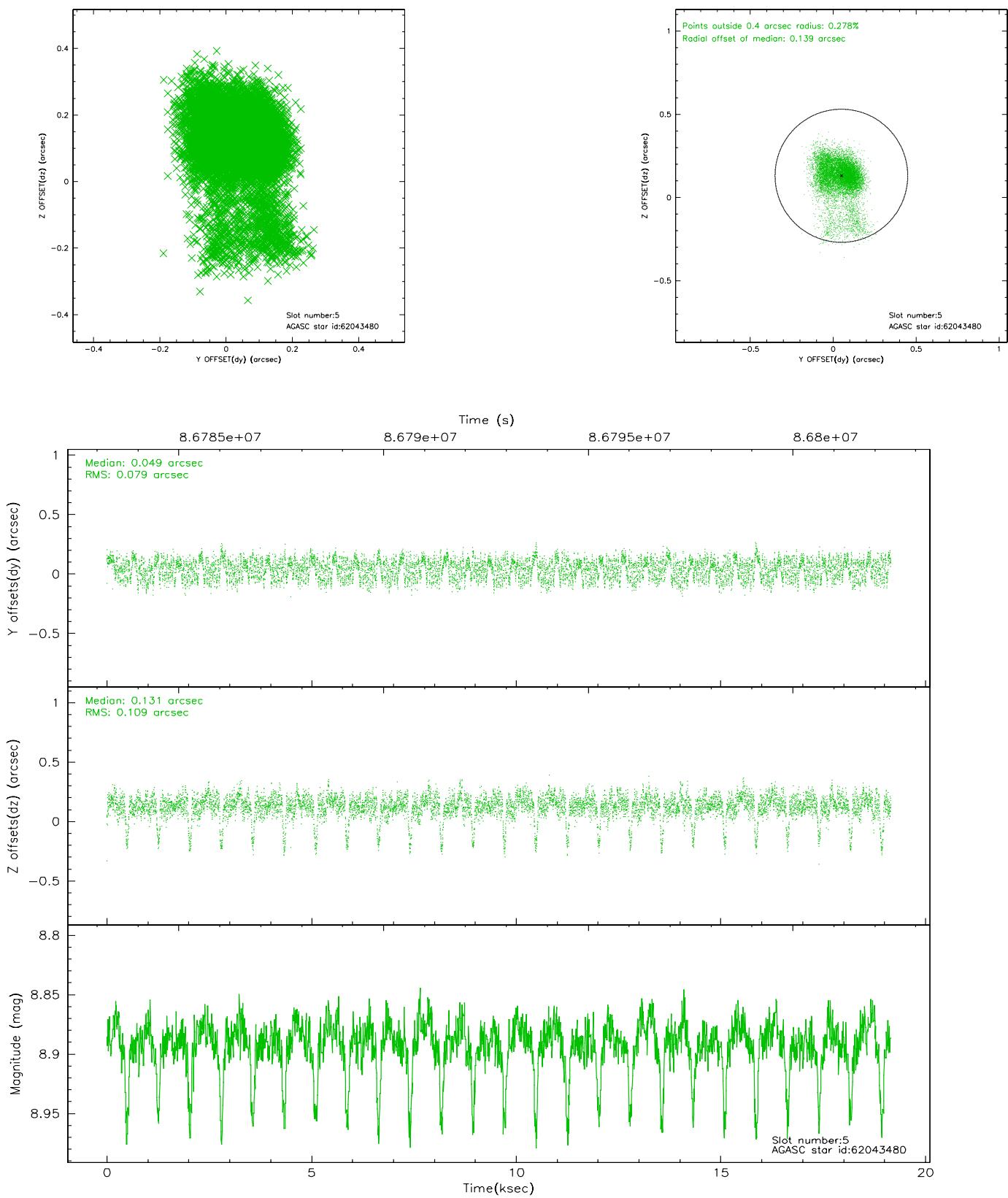
2.4.1 Slot 3



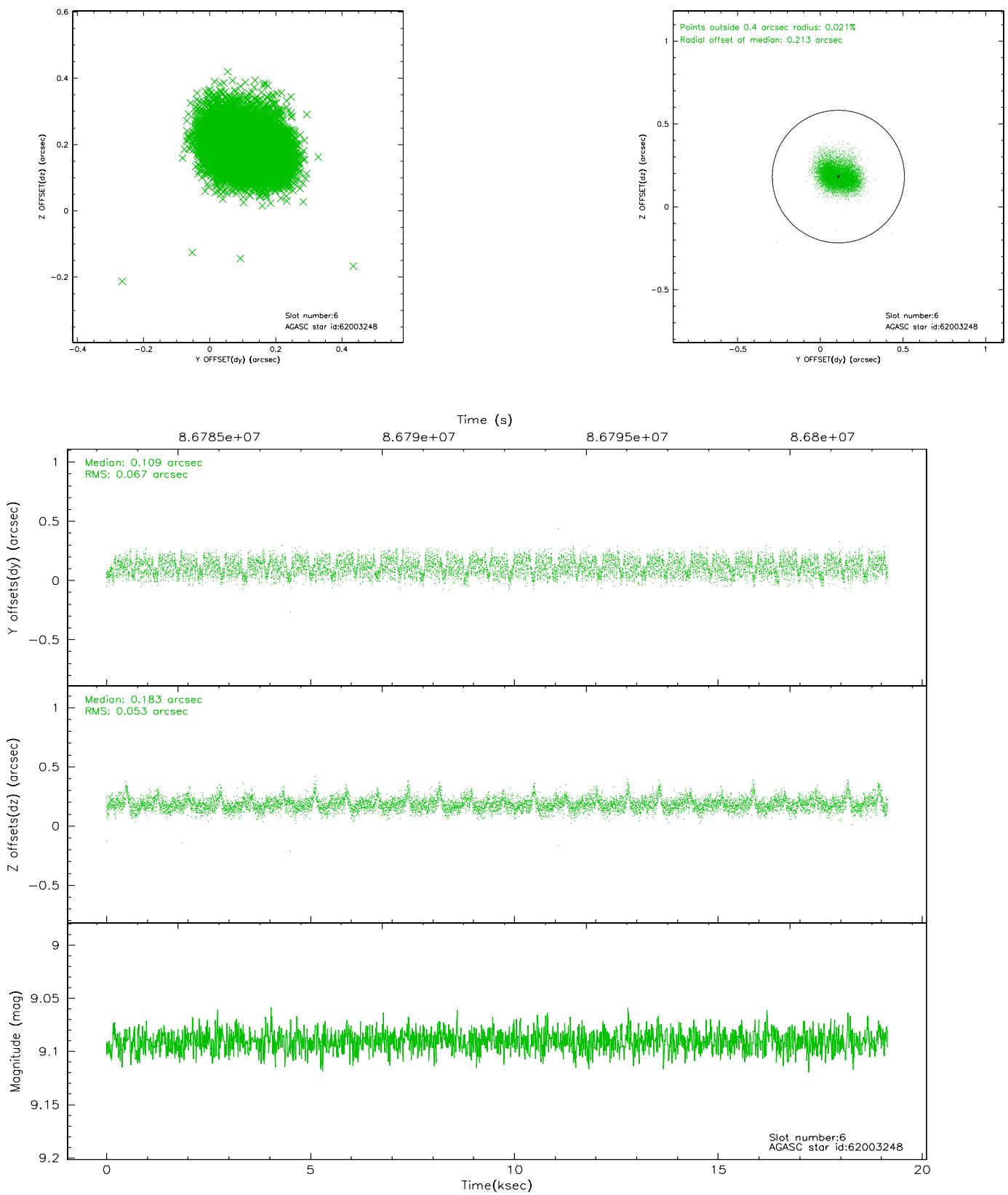
2.4.2 Slot 4



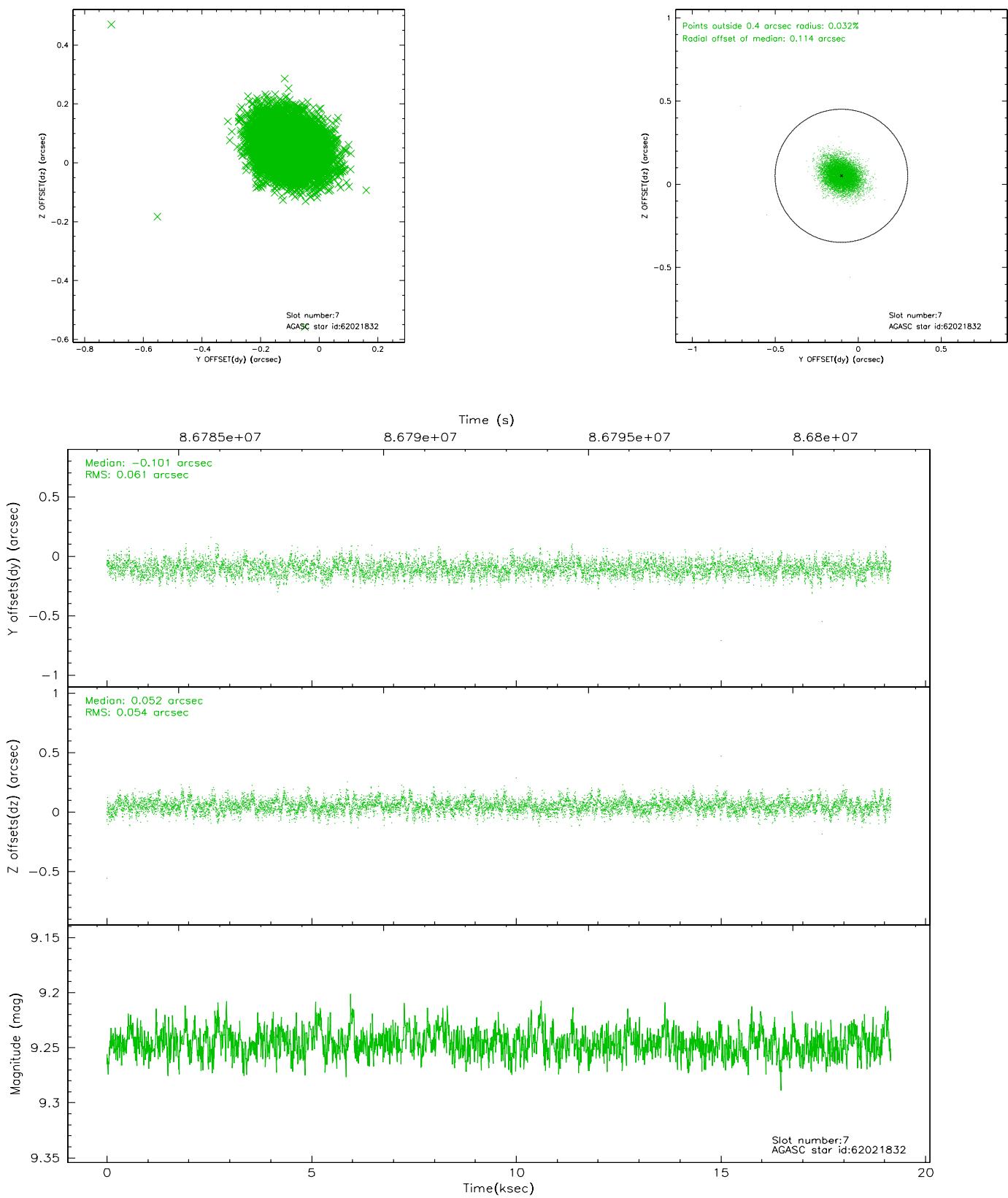
2.4.3 Slot 5



2.4.4 Slot 6

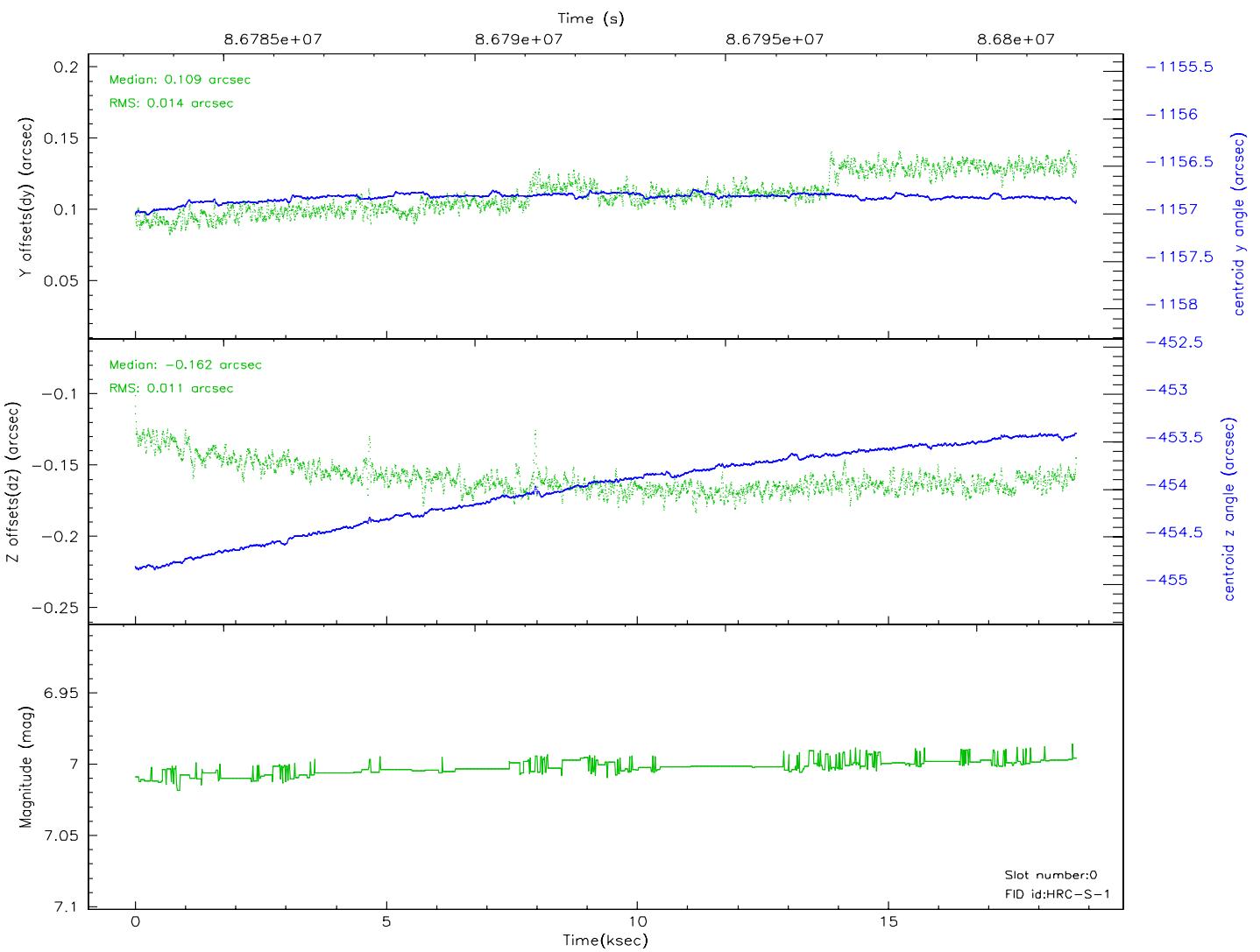
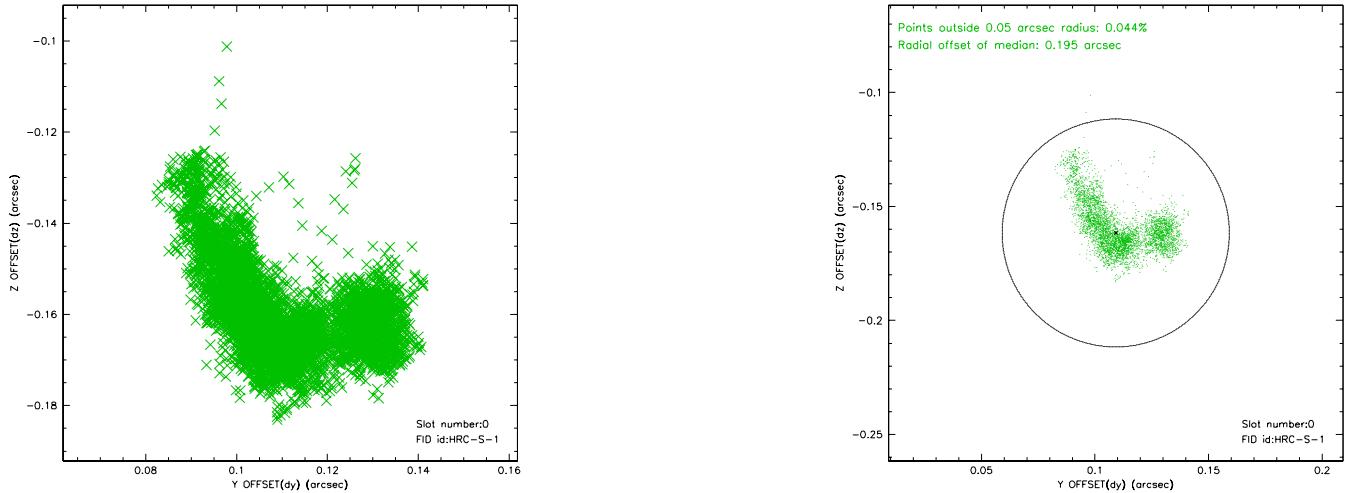


2.4.5 Slot 7

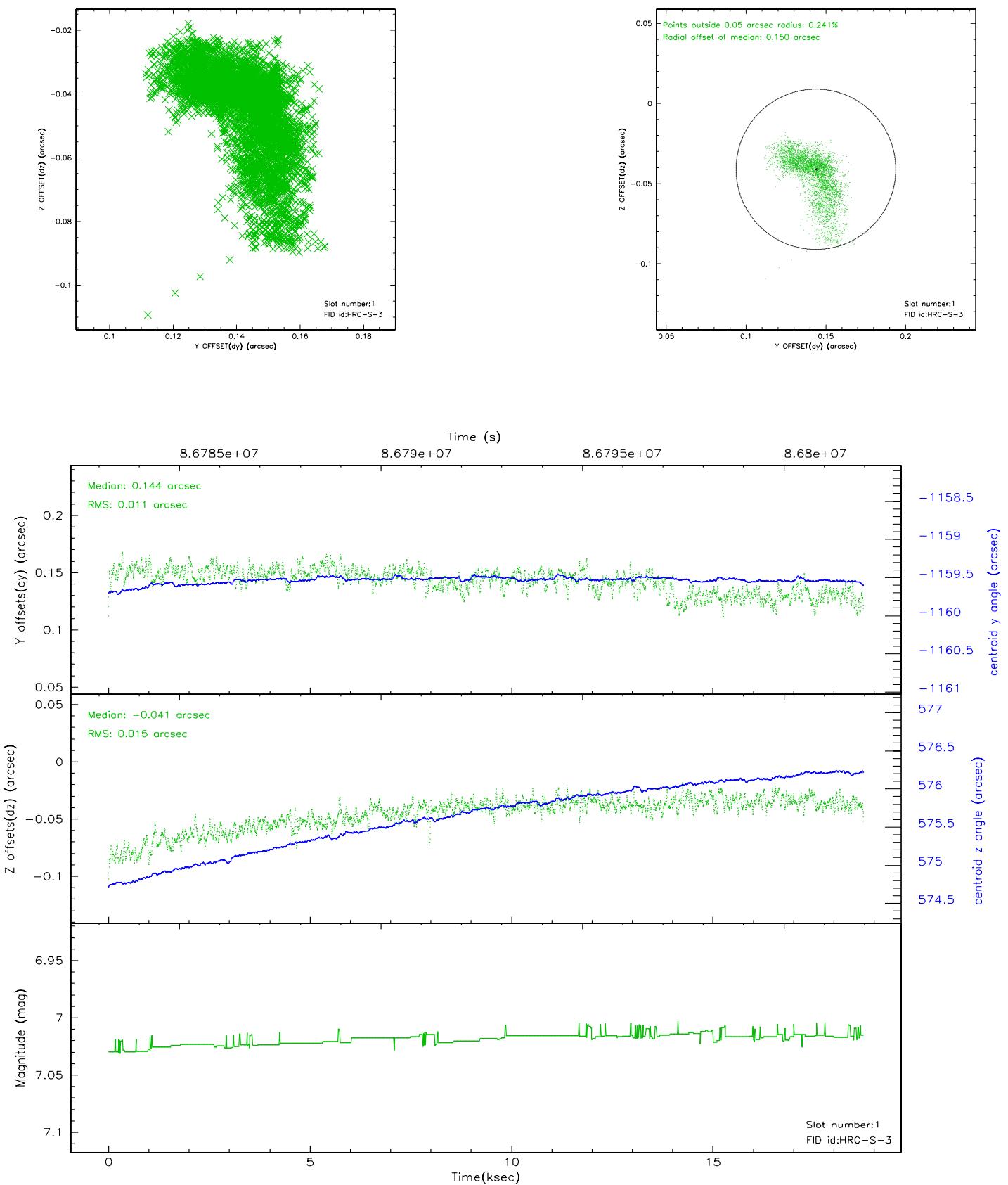


2.5 FID Slots

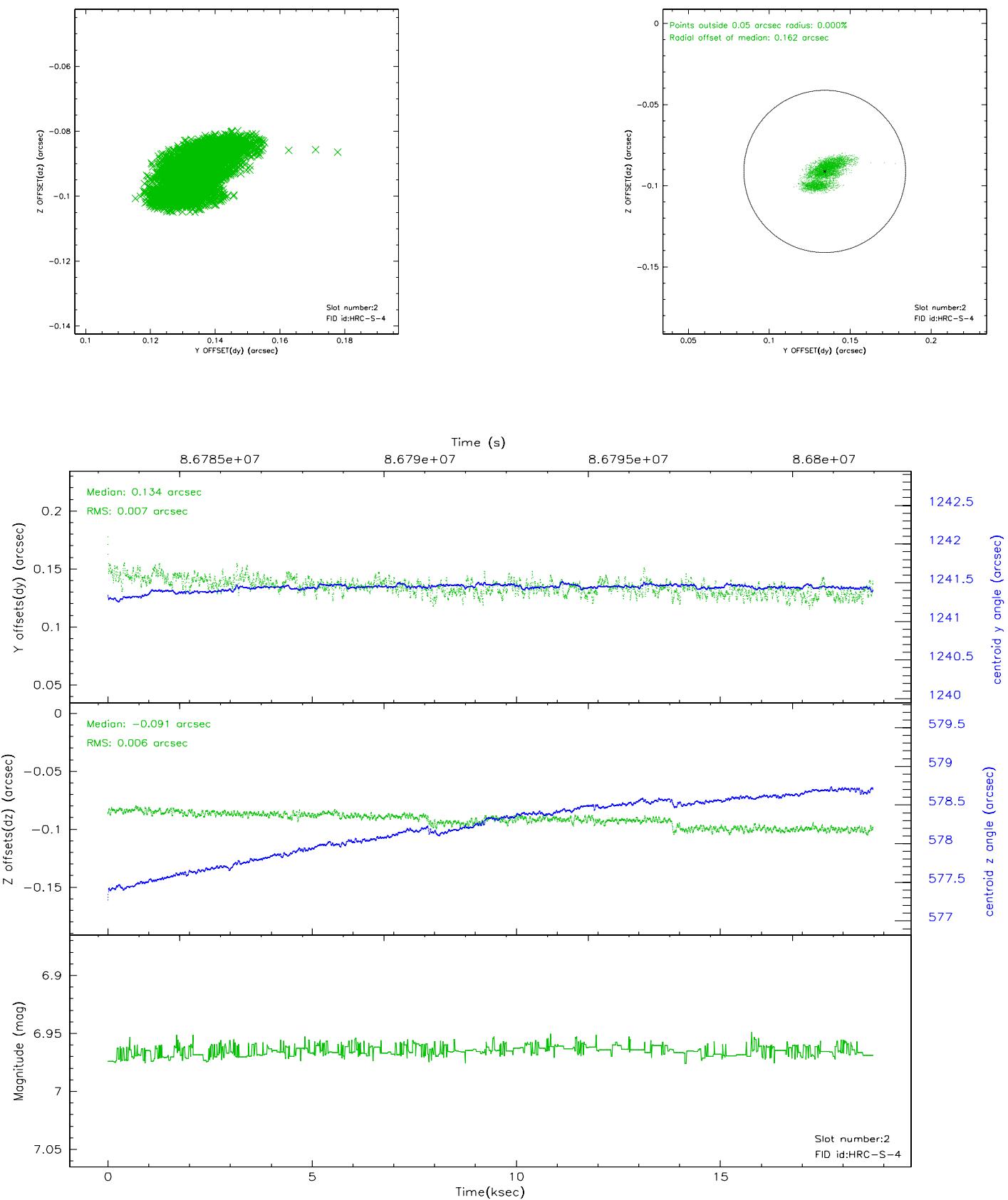
2.5.1 Slot 0



2.5.2 Slot 1

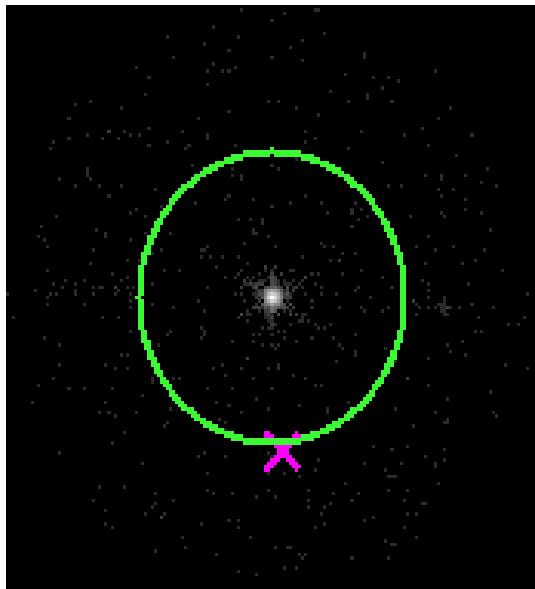


2.5.3 Slot 2



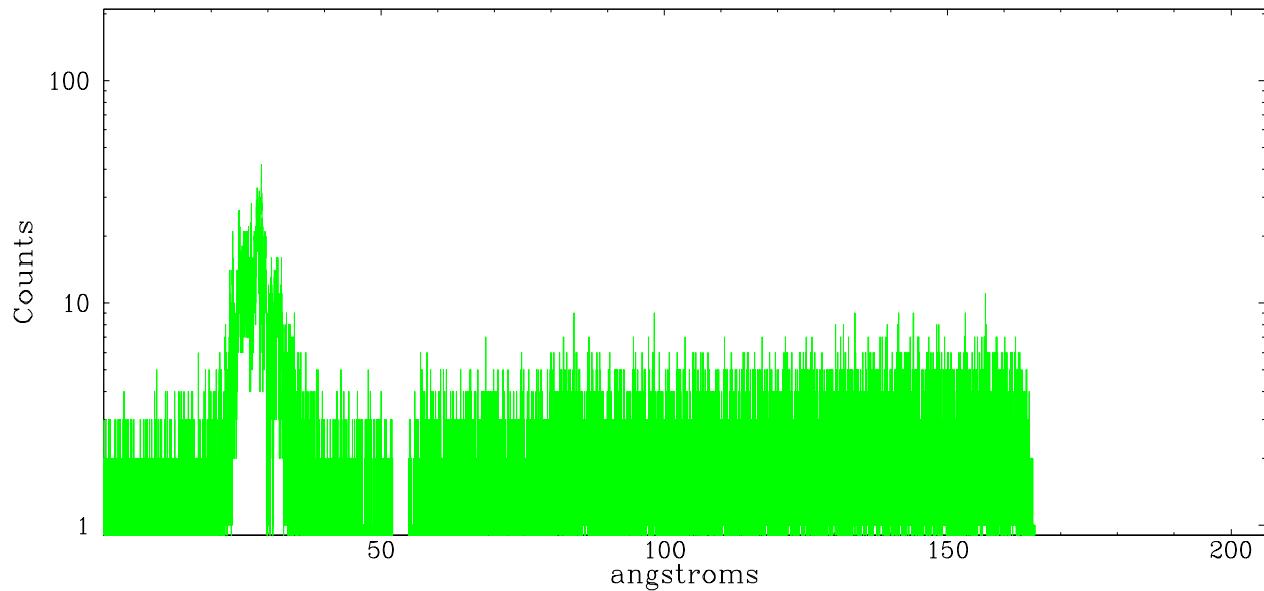
3 Gratings

3.1 LETG Arm

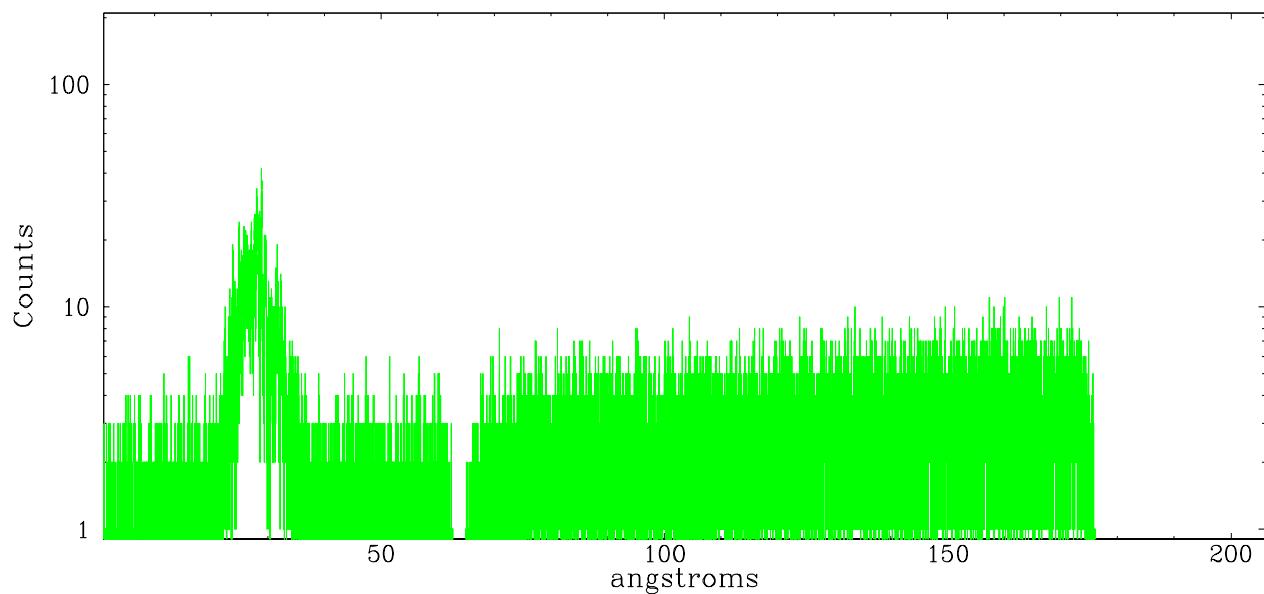


LETG Zero Order

leg order -1



leg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.08.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.228

A.2 Comments

Zeroth order piled up. Standard data processing software did not correctly

locate the zeroth order due to pileup. Manual intervention was used to input the correct sky coordinates ($x=32758.05$; $y=32890.83$) into the *src1a.fits file table. These corrected coordinates were determined using

a software tool developed by CXC called findzero, which is expected to be

released in CIAO (currently in ISIS). The tool calculates the point of intersection of the

readout streak and the leg arm. The zeroth order source position determined by the standard

pipeline processing using the tool tgdetect was not used in this processing. The newly determined

zeroth order coordinates have been placed in the *src1a.fits file, replacing the coordinates determined by tgdetect. Note that these corrected coordinates of the zeroth order cannot be reproduced by running

tgdetect on the data.=====

Count rate varies from about 50 to 200 cts/s during the course of the observation, probably due to the high radiation environment.