

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 5041 - L2 Version 002
Chandra X-Ray Center

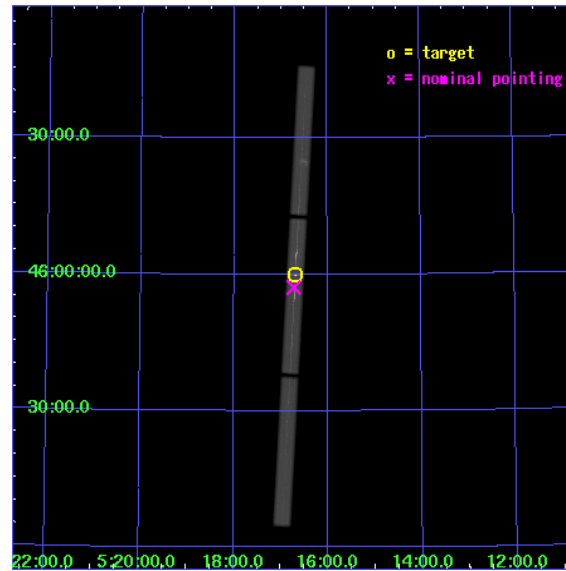
L2 Processing Date : Apr 18 2006

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Gratings	17
3.1	LETG Arm	17
A	Summary	19
A.1	Status	19
A.2	Comments	19

1 Front

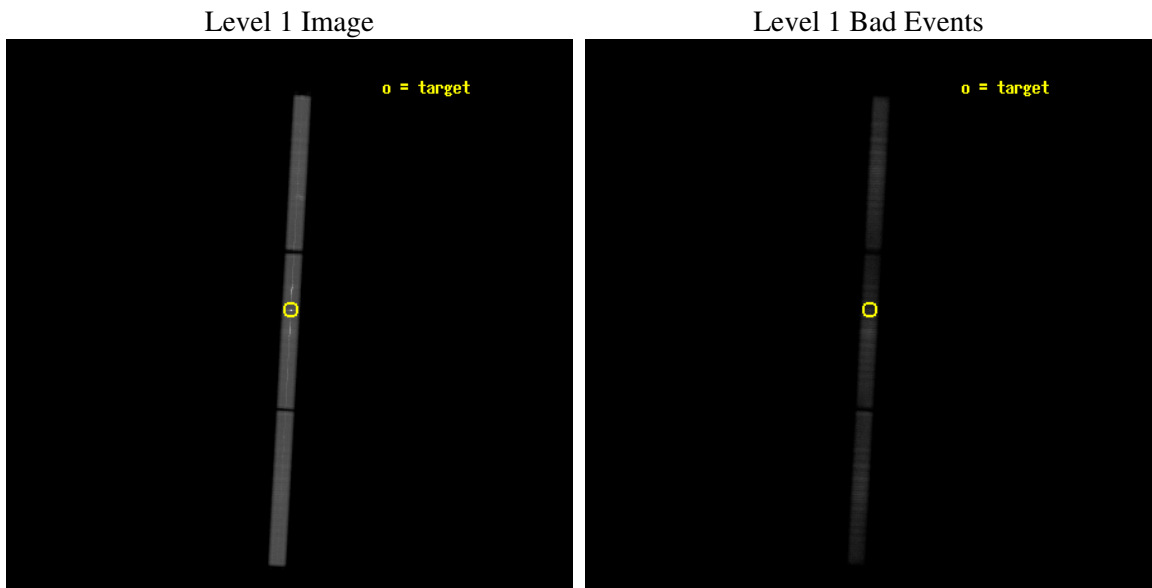
seq_num	290314
obs_id	5041
title	AO5 Calibration Observations of Capella
observer	Dr. CXC Calibration
object	Capella
ra_targ	79.17625
dec_targ	45.997889
ra_nom	79.179819500031
dec_nom	45.952624643883
roll_nom	93.064771612486
revision	3
ontime	28884.501289129
livetime	28737.207335444
l2events	1674104



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-04-18T17:54:16
revision	3

sched_exp_time	29000.000000
ontime	28972.651293039
l1events	2402962

2.1.3 Events

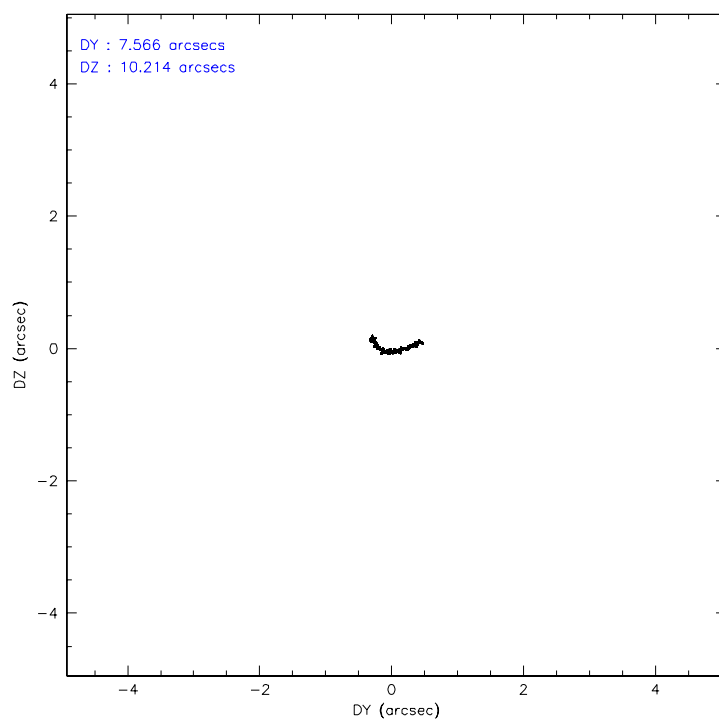
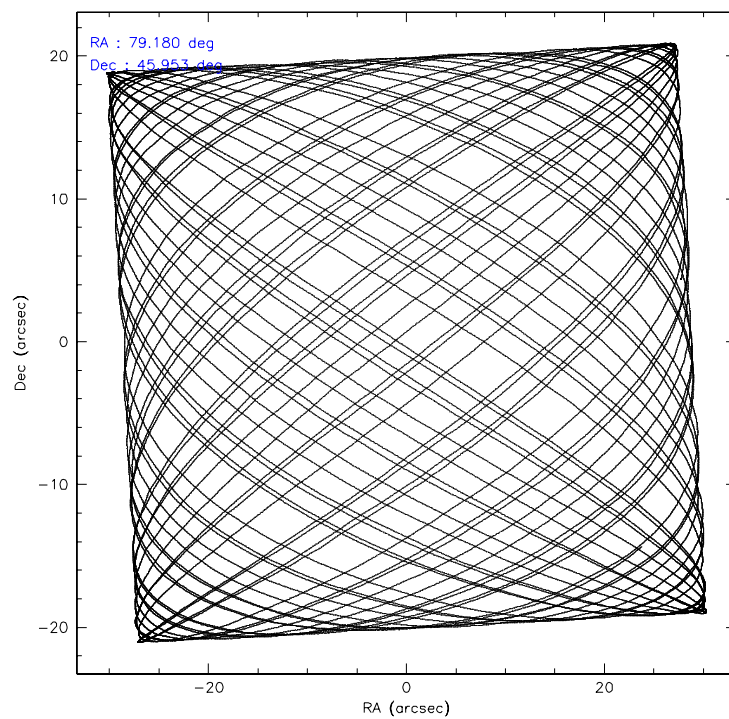
Level 1 Events

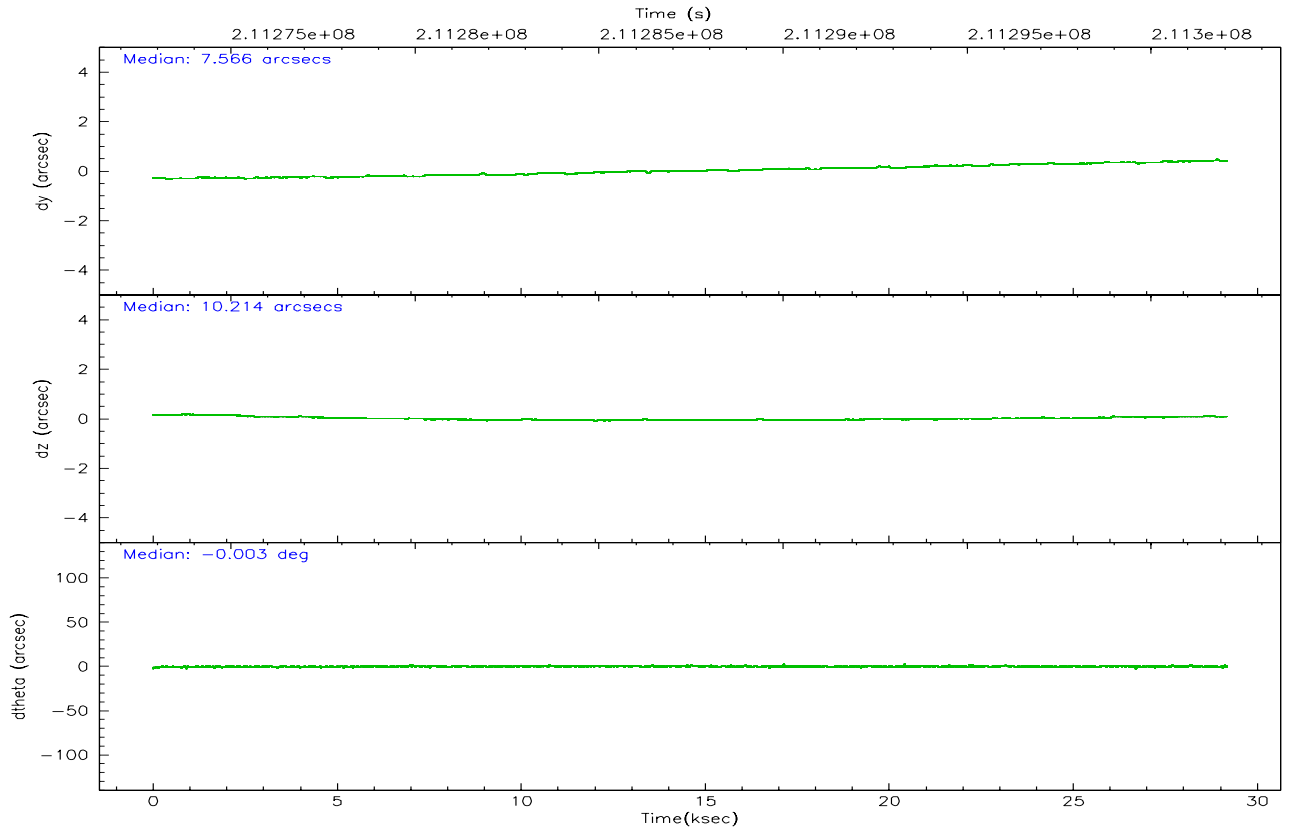
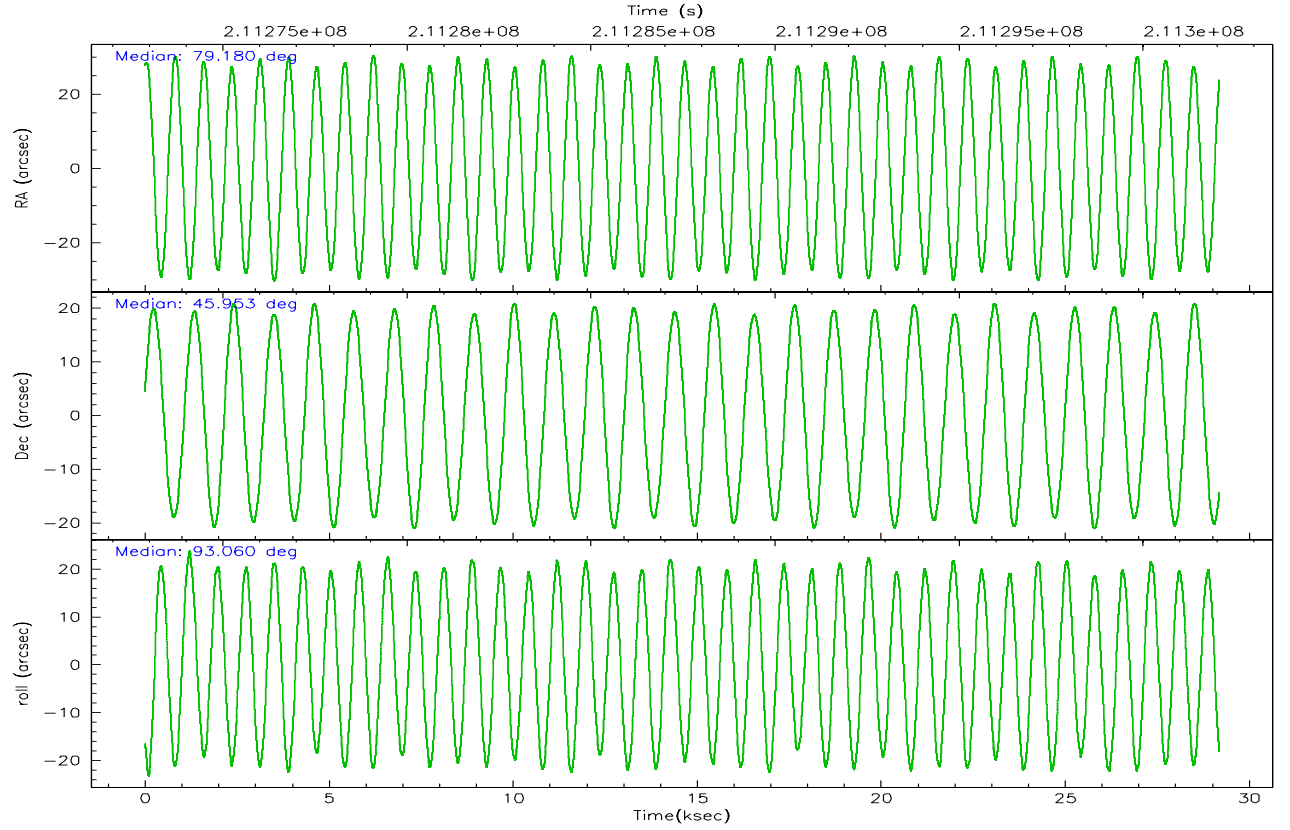
	segment 1	segment 2	segment 3
level 1 events	754791	874831	773340
rejected events	154581	169153	188727
rejected %	20%	19%	24%

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	79.203965	79.17981950003082			
Pointing Dec	45.929464	45.95262464388289			
Pointing Roll	92.980080	93.06477161248598			
Window start time	210384064.184000	210384064.184000			
Window stop time	215568064.184000	215568064.184000			
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	211273061.184000	211272817.97918			
Observation start date	2004-09-11T06:56:37	2004-09-11T06:53:37			
Observation end time	211302061.184000	211302908.90553			
Observation end date	2004-09-11T14:59:57	2004-09-11T15:15:08			

2.3 Aspect



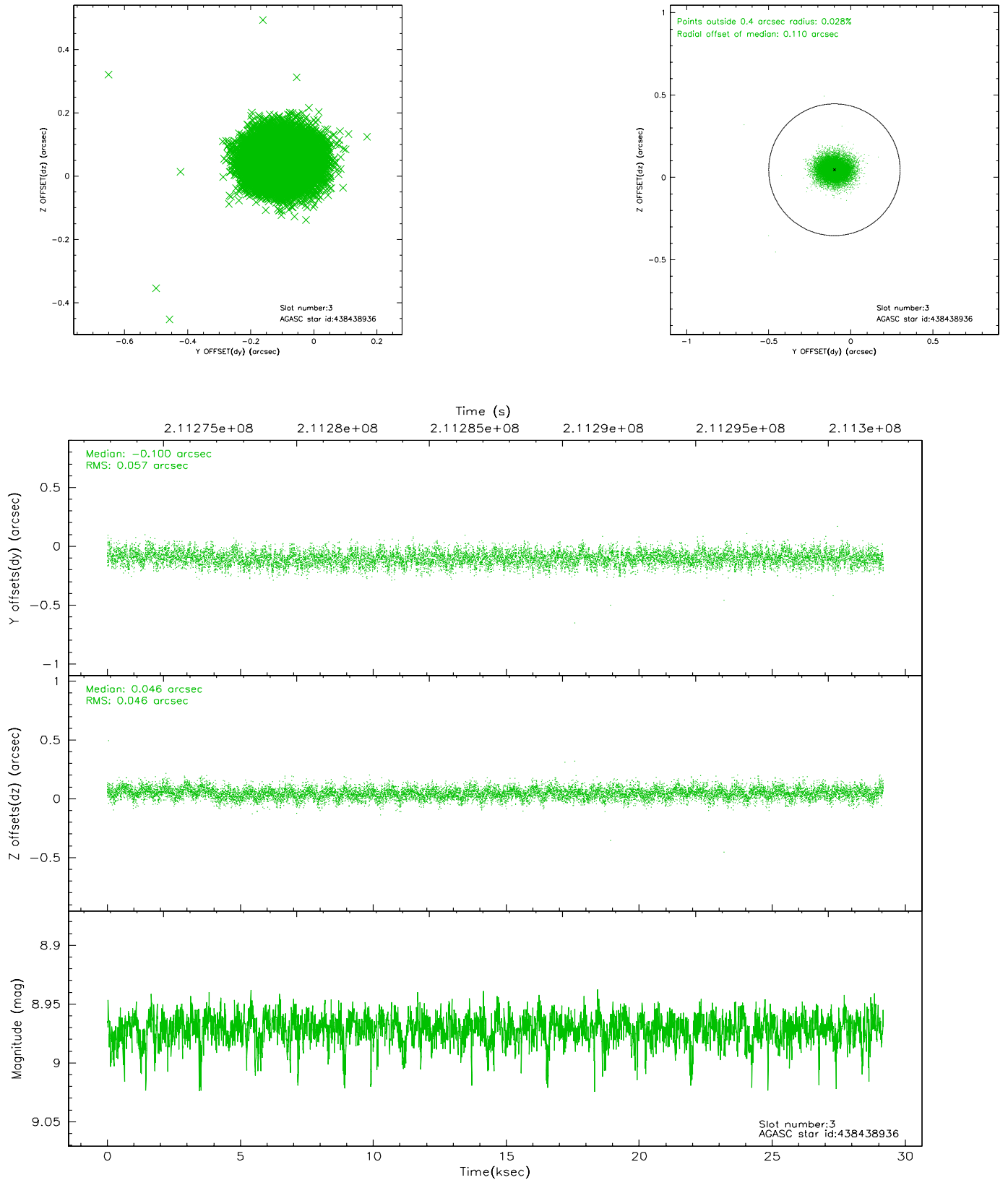


Slot Statistics

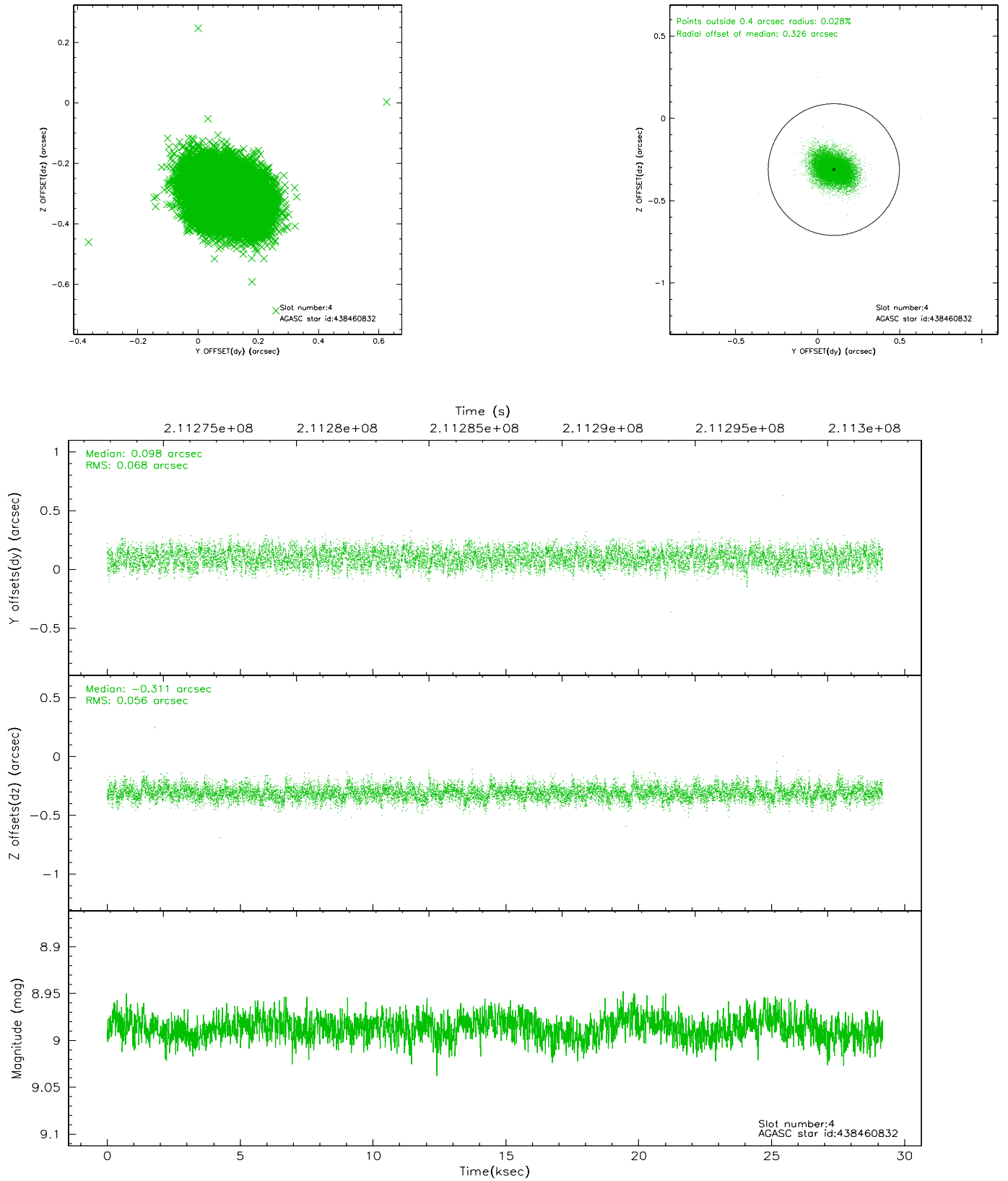
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.99	7119	0.142	-0.186	0.009	0.022	0.000000	0.000000	-1161.75	-458.93
1	FID	HRC-S-2	6.99	7119	0.153	-0.115	0.006	0.023	0.000000	0.000000	1237.78	-451.60
2	FID	HRC-S-3	7.00	7119	0.095	-0.001	0.008	0.012	0.000000	0.000000	-1164.33	570.72
3	GUIDE	438438936	8.97	14230	-0.100	0.046	0.078	0.125	78.241026	46.550197	2369.87	2264.28
4	GUIDE	438460832	8.99	14229	0.098	-0.311	0.094	0.151	78.414614	45.554782	-1233.77	2056.53
5	GUIDE	440145944	9.09	14226	0.075	0.238	0.100	0.158	80.083717	45.428844	-1902.98	-2126.33
6	GUIDE	440150048	7.20	14238	-0.182	-0.124	0.072	0.108	79.112838	46.416060	1761.01	134.72
7	GUIDE	440163960	8.90	14230	0.109	0.153	0.071	0.115	79.298370	45.827072	-379.90	-217.23

2.4 Star Slots

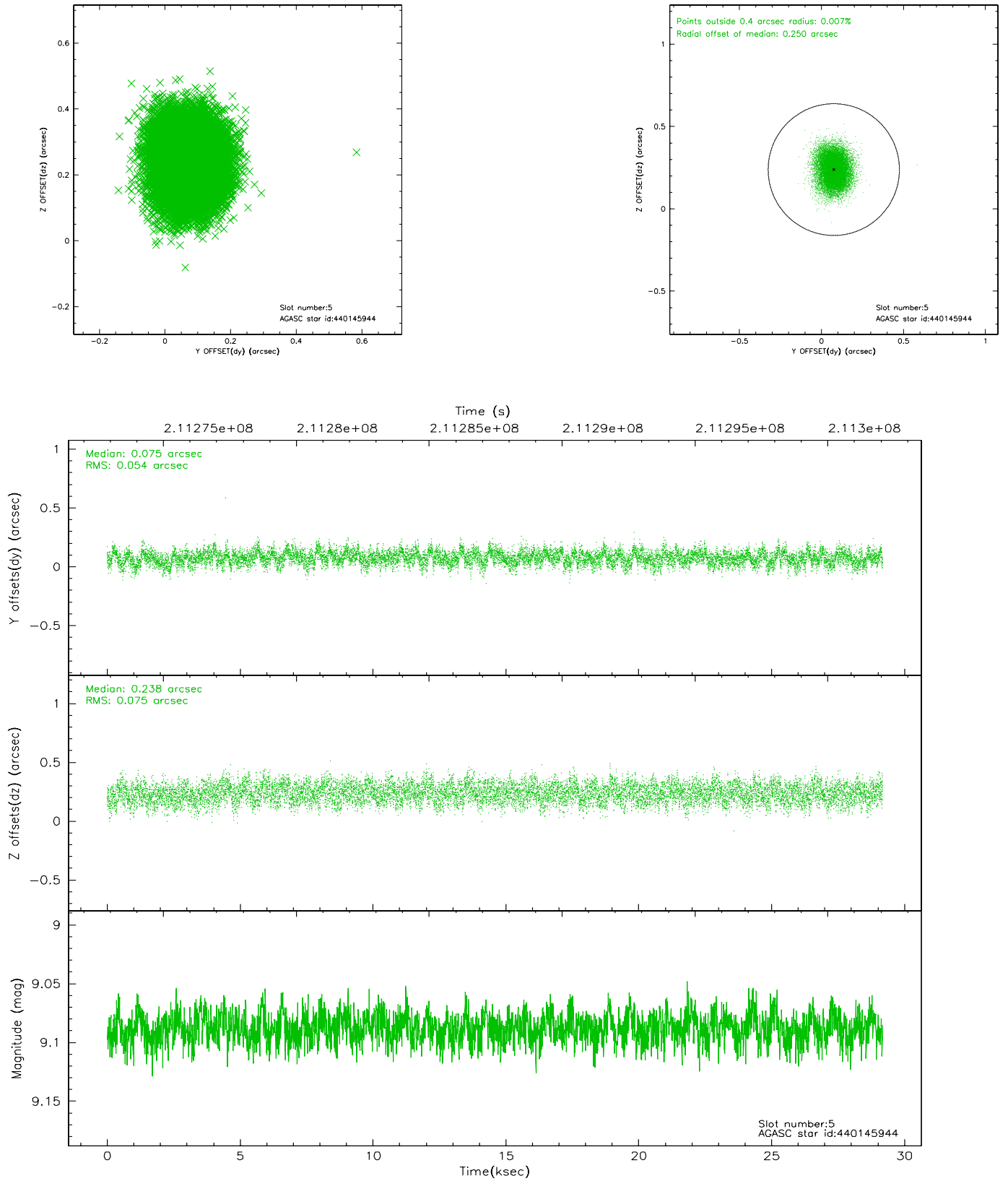
2.4.1 Slot 3



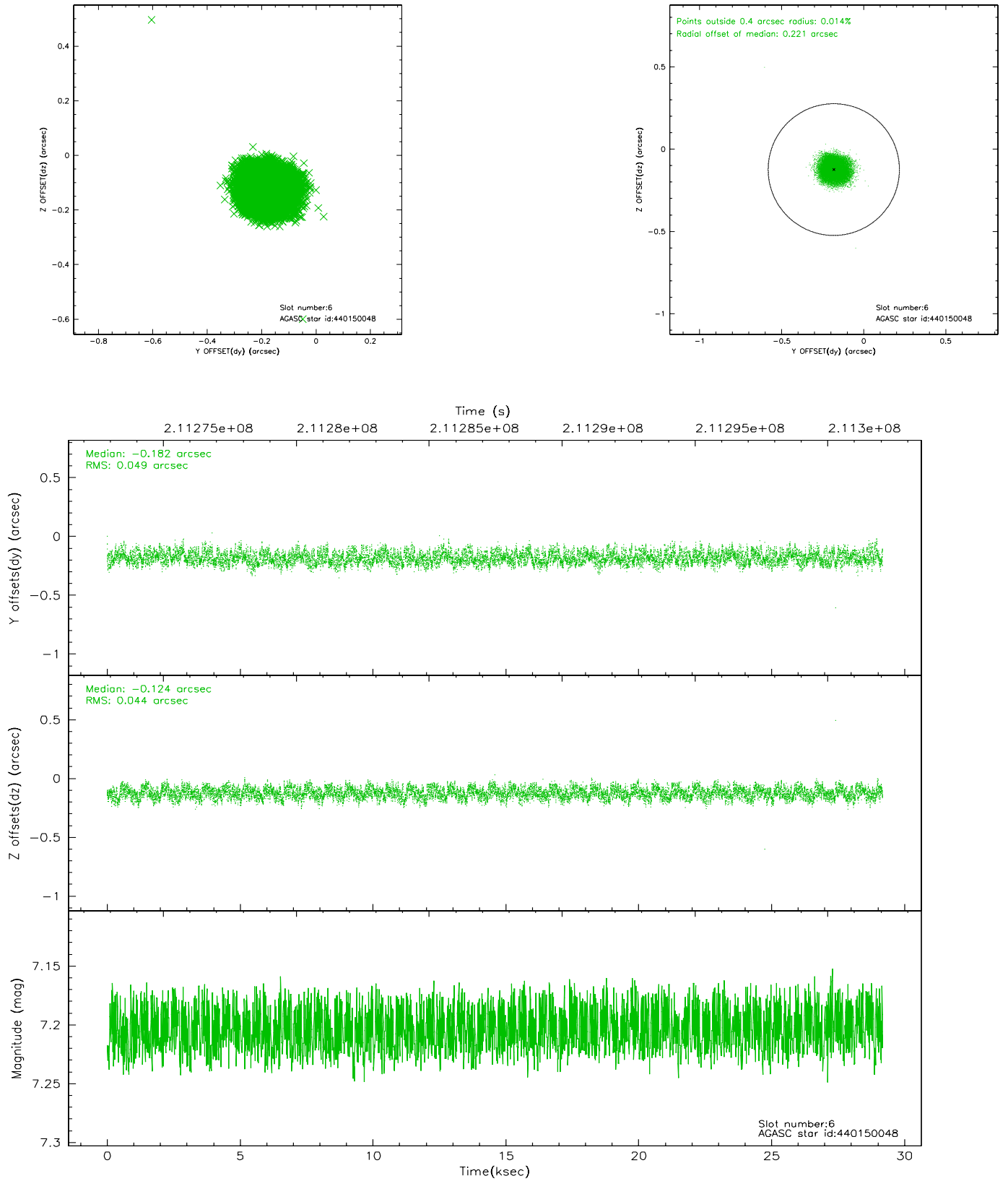
2.4.2 Slot 4



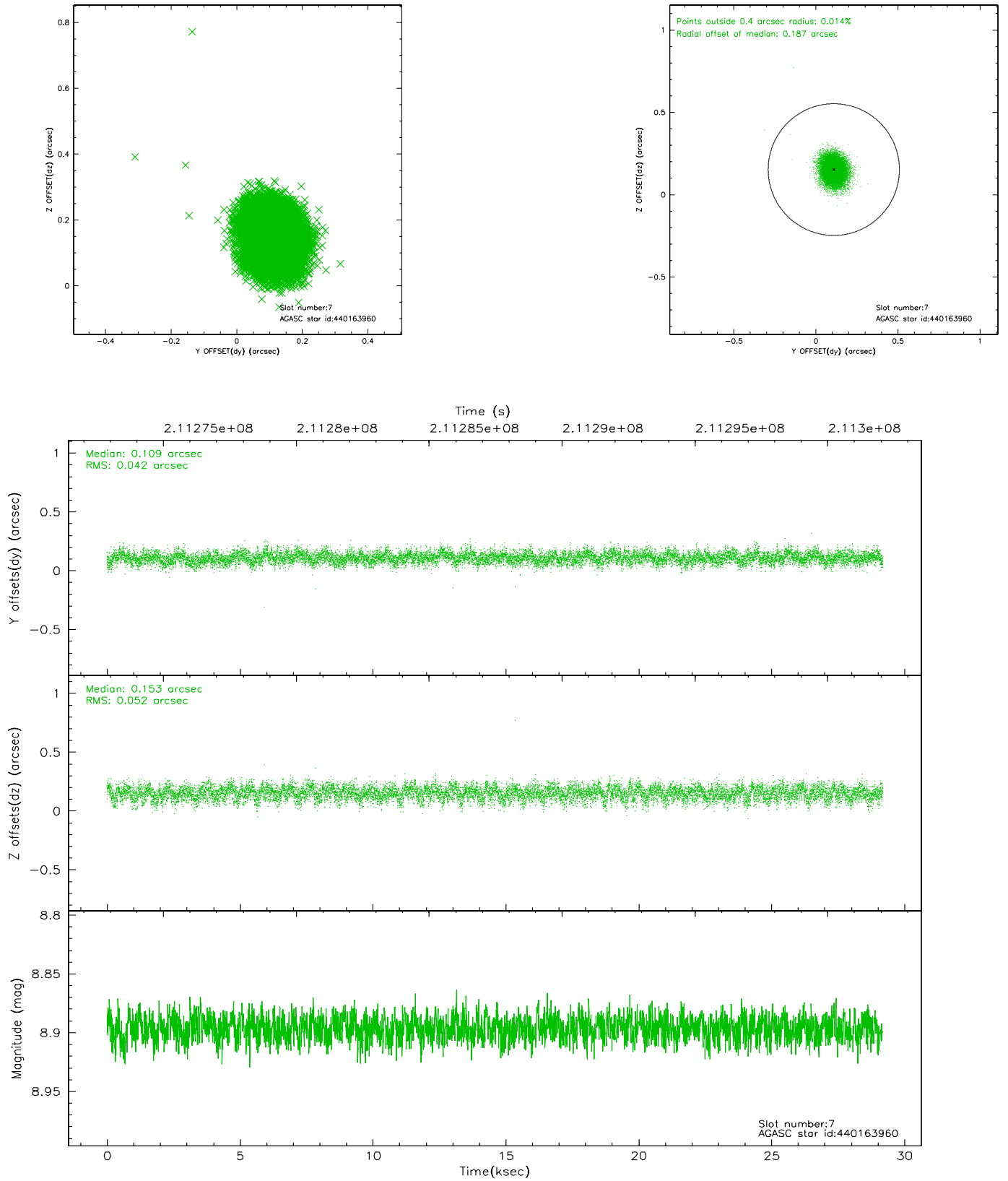
2.4.3 Slot 5



2.4.4 Slot 6

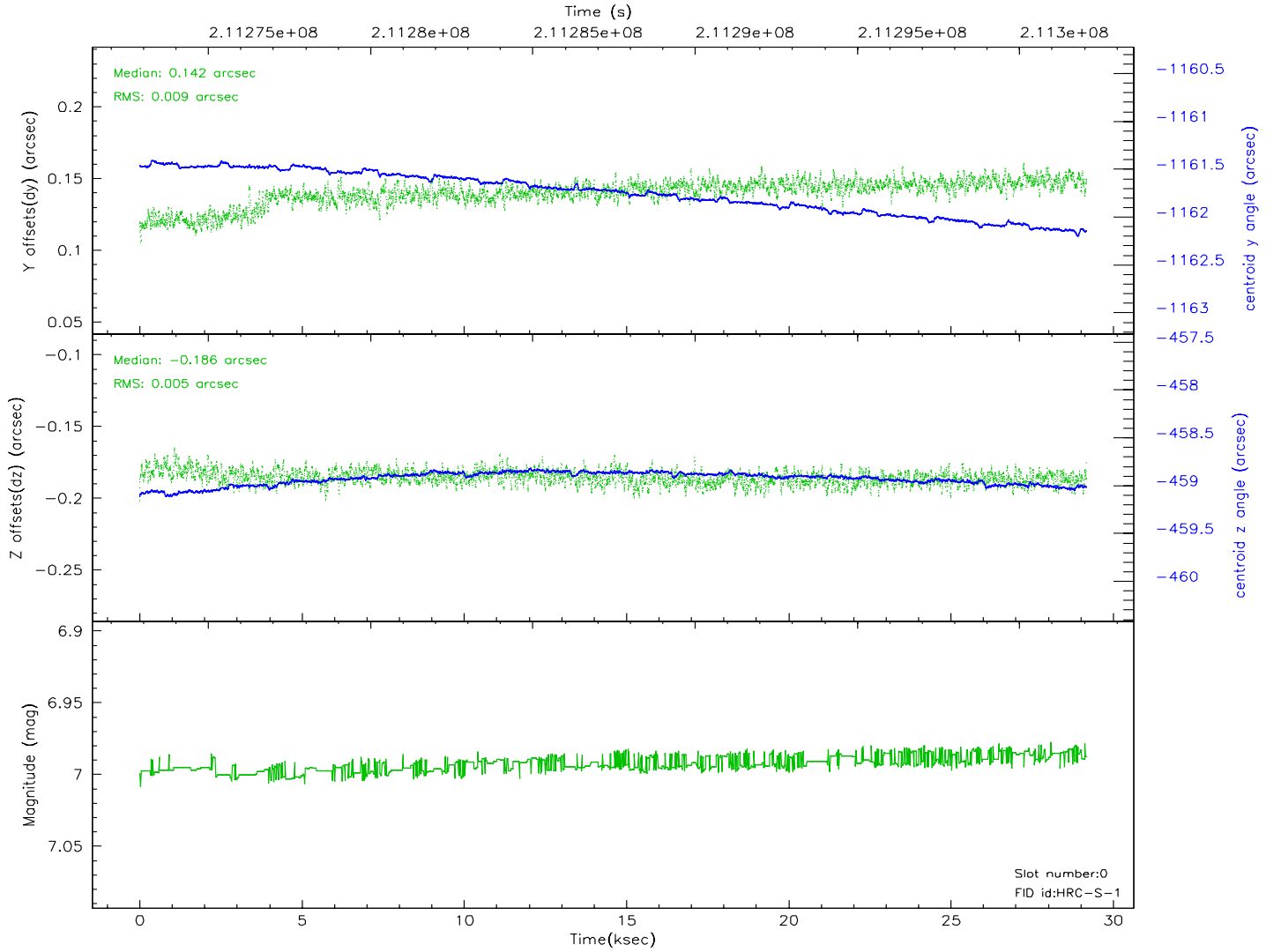
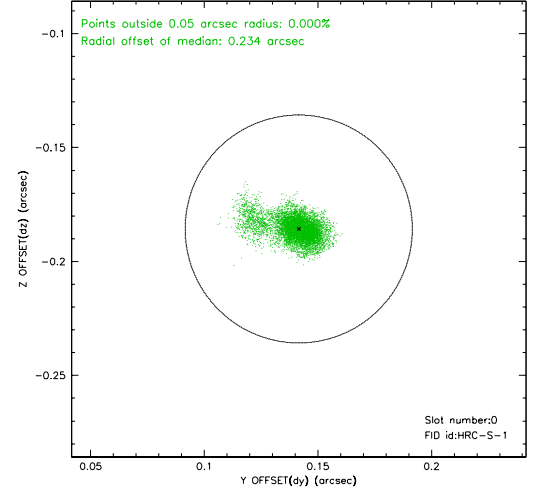
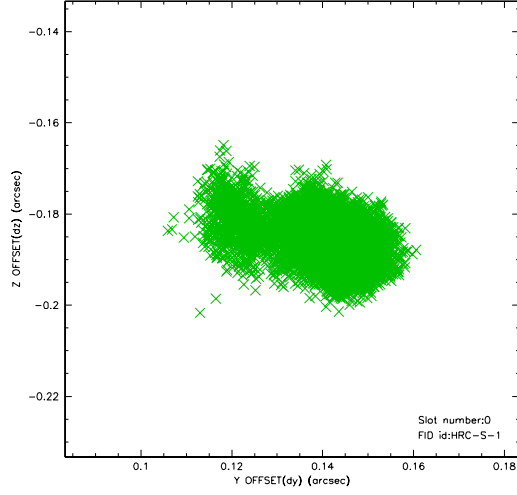


2.4.5 Slot 7

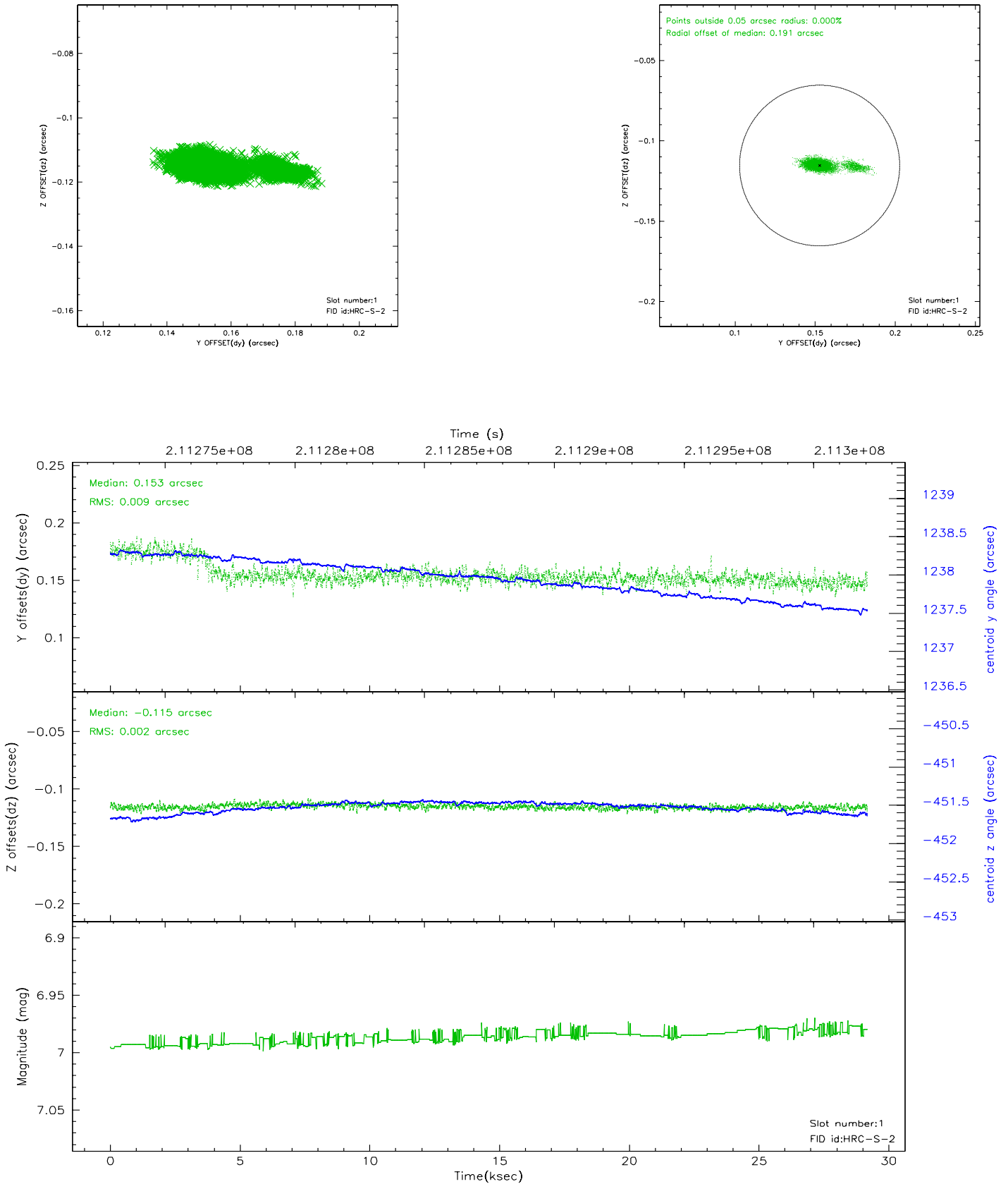


2.5 FID Slots

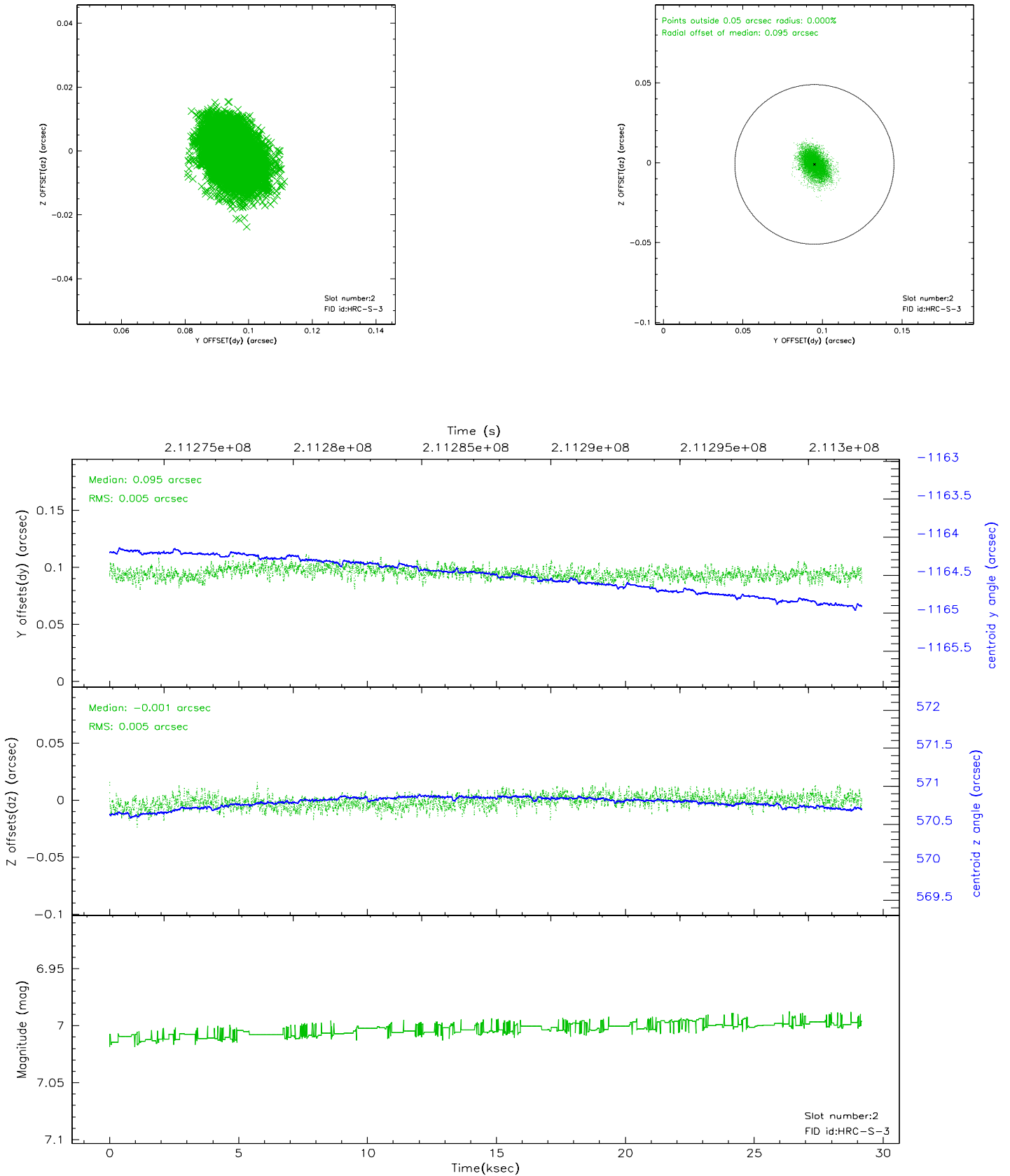
2.5.1 Slot 0



2.5.2 Slot 1

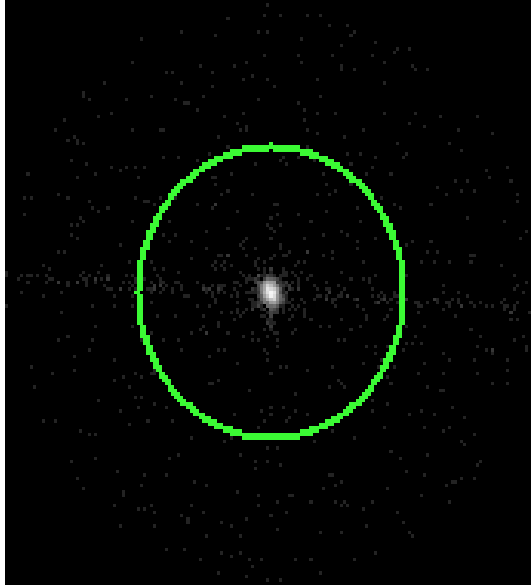


2.5.3 Slot 2



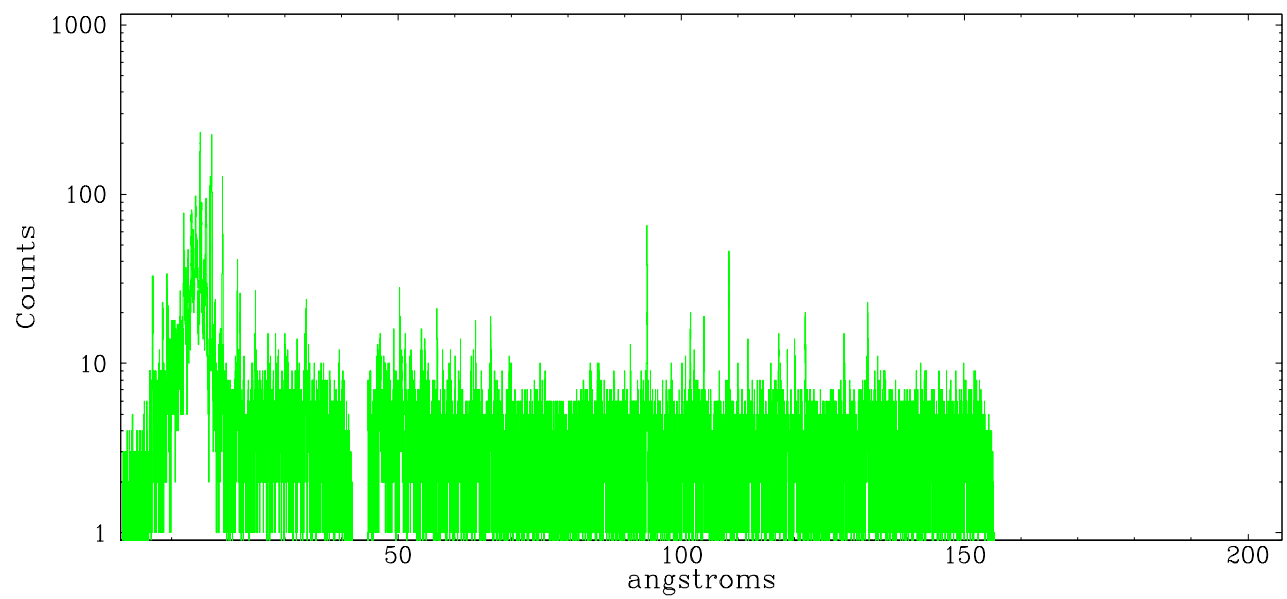
3 Gratings

3.1 LETG Arm

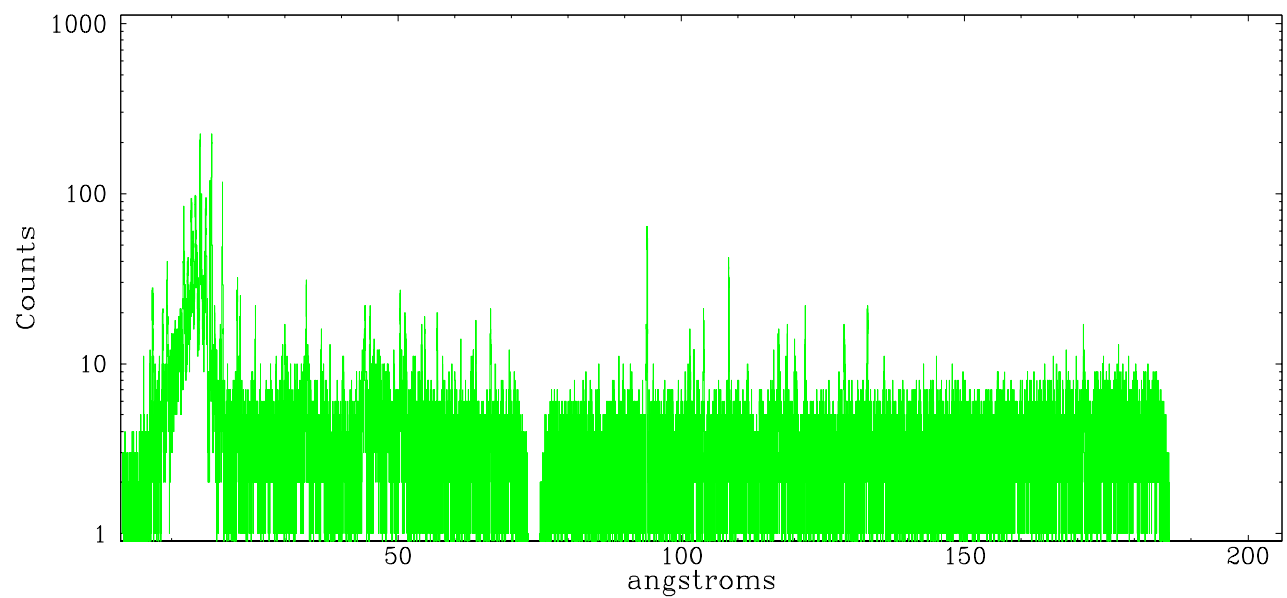


LETG Zero Order

leg order -1



leg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.04.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.884

A.2 Comments

Shift of 3.0 arcmin to place strong lines in vicinity of tap 112 for degap refinement.

Serendipitous emission is present for 2MASX J05163616+4625040

The keywords DTCOR, EXPOSURE, and LIVETIME in the Level 2 event file and the keyword DTCOR in the Level 1 event file have been incorrectly determined due to a software bug. The correct value of DTCOR can be found in the file DTFSTATS file (*std_dtfstat1.fits) that can be obtained by downloading the Secondary Data Products. In most cases, the difference between the correct DTCOR value and the incorrect DTCOR value in the Level 2 event file is very small and does not affect the data analysis. However, there are cases of significant differences and the user is advised to use the DTCOR in the DTFSTATS file for analysis. Corrected data products will be made available in the archive as soon as feasible.