

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 5317 - L2 Version 001
Chandra X-Ray Center

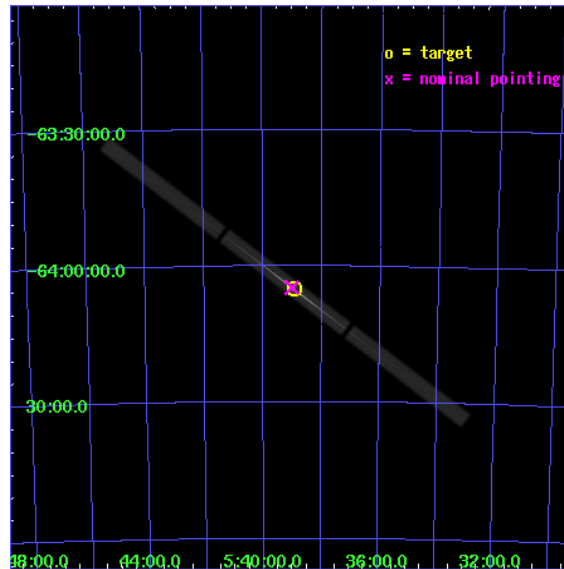
L2 Processing Date : May 18 2006

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

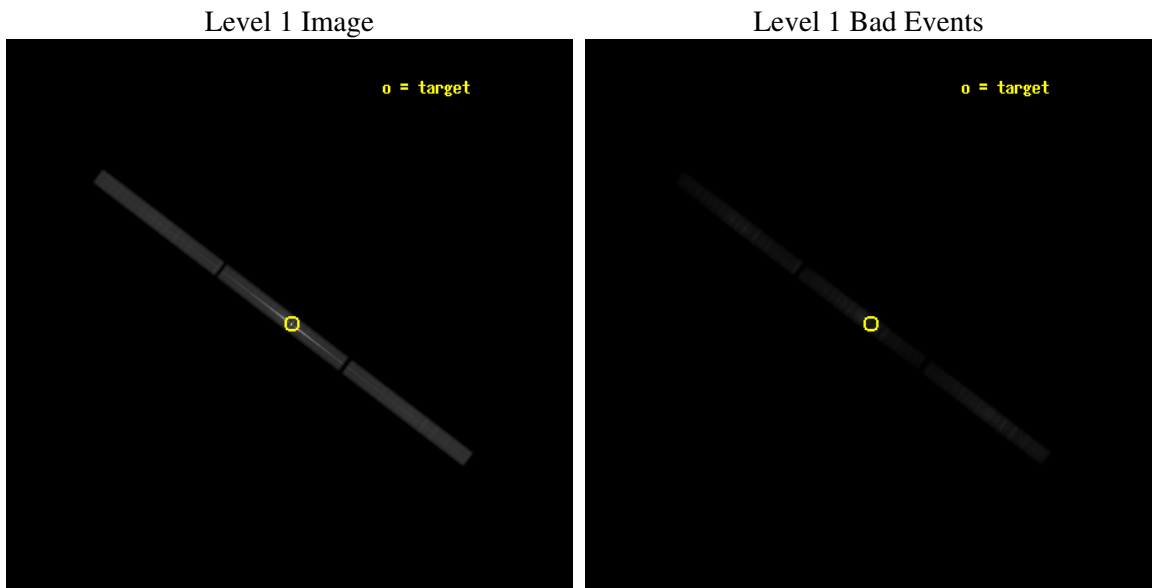
seq_num	400357
obs_id	5317
title	High Resolution Spectroscopy of LMC X-3: Probing Local Hot X-ray Absorbing Gas
observer	Dr. Taotao Fang
object	LMC X-3
ra_targ	84.734583
dec_targ	-64.084167
ra_nom	84.753341385844
dec_nom	-64.077870943409
roll_nom	217.02214119165
revision	2
ontime	39831.758007109
livetime	39803.685834338
l2events	2568634



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0
ascdsver	7.6.7.2
caldbver	3.2.2
date	2006-05-18T20:43:26
revision	2

sched_exp_time	40000.000000
ontime	40148.48302108
l1events	3521970

2.1.3 Events

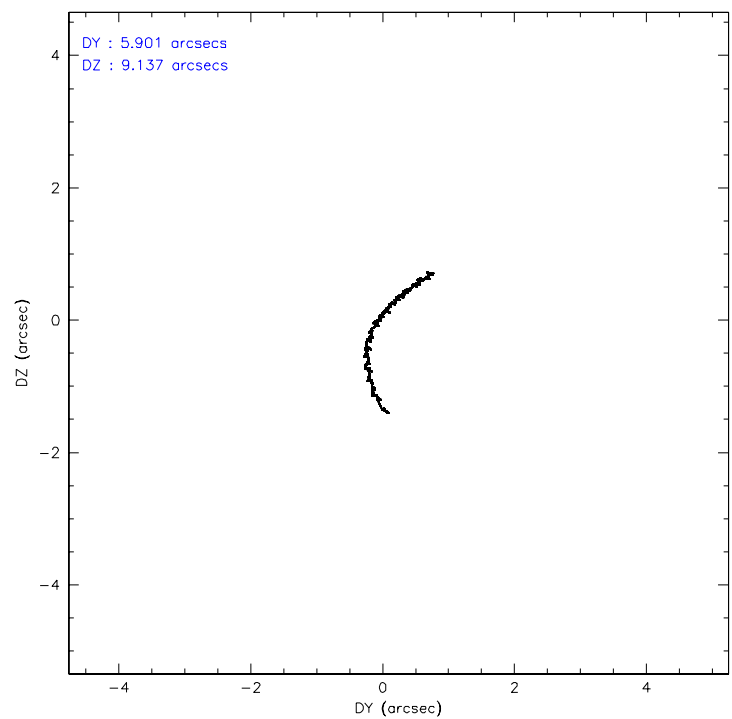
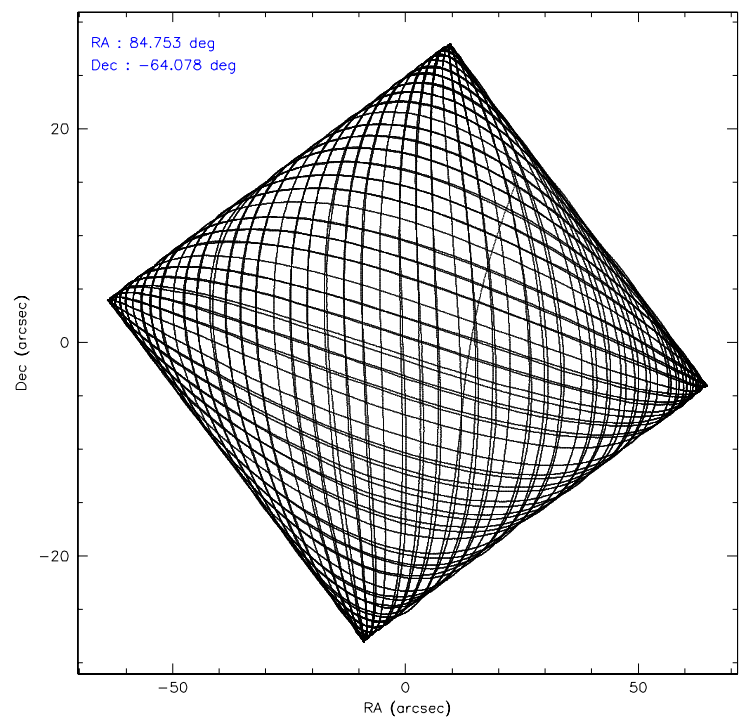
Level 1 Events

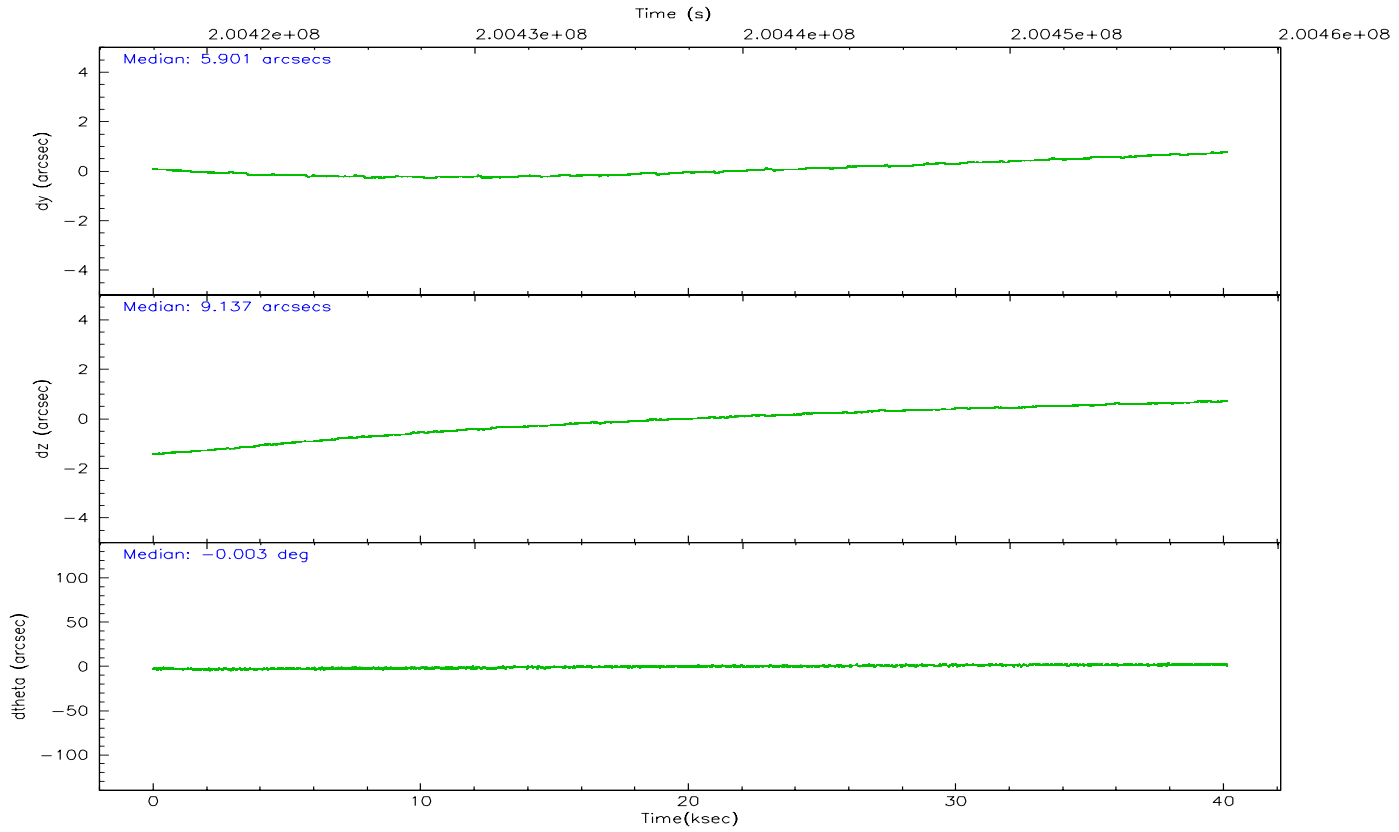
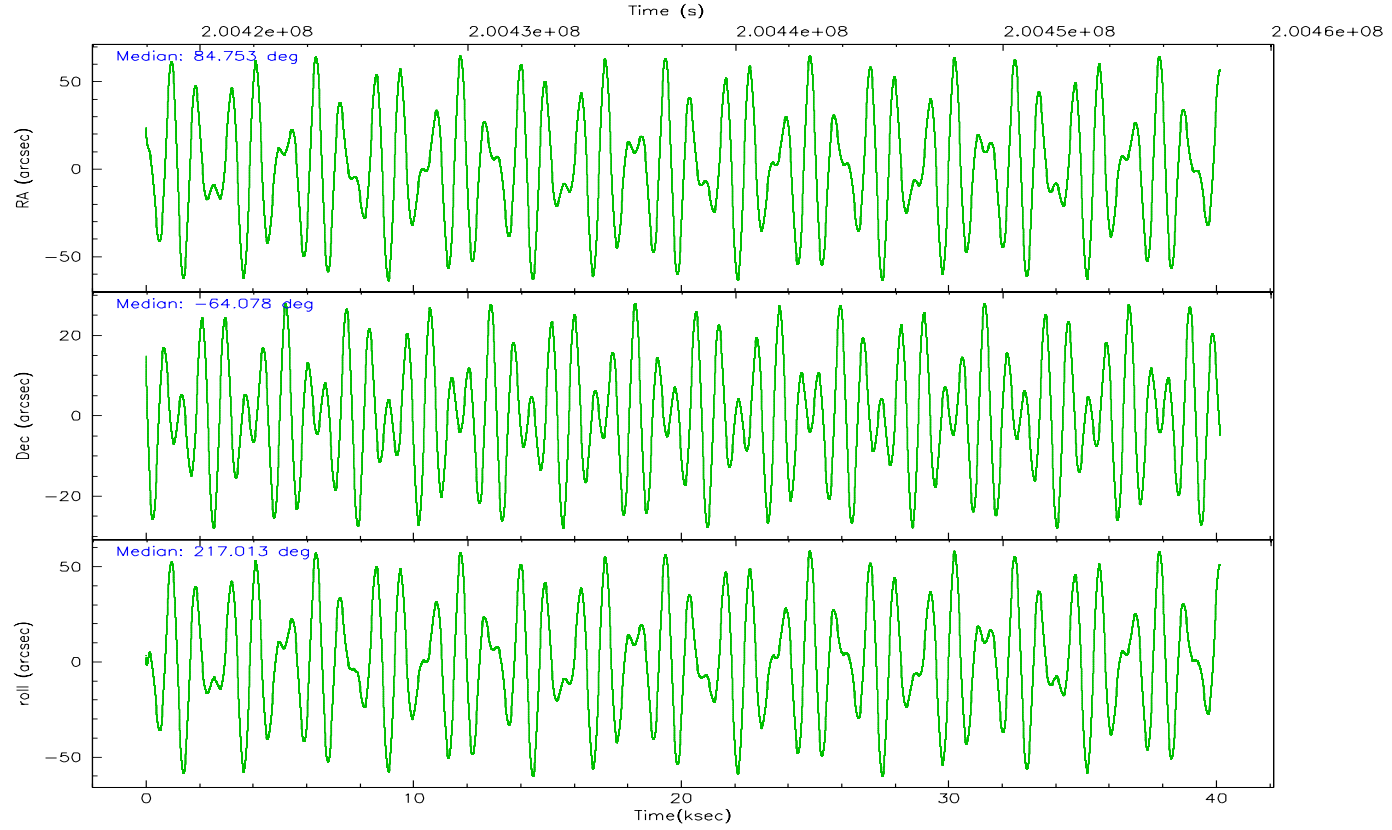
	segment 1	segment 2	segment 3
level 1 events	972398	1568790	980782
rejected events	203135	224029	246753
rejected %	20%	14%	25%

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	84.775779	84.75334138584361			
Pointing Dec	-64.051015	-64.07787094340851			
Pointing Roll	216.974980	217.0221411916479			
SIM focus pos (mm)	-1.429586	-1.428180813131781			
SIM defocus (mm)	0.1037507710433287	0.1051558262725154			
SIM translation stage pos (mm)	250.943976	250.9487816181005			
SIM translation stage offset (mm)	-0.488	-0.4928032245458098			
Observation start time	200418113.184000	200416936.41011			
Observation start date	2004-05-08T15:40:49	2004-05-08T15:22:16			
Observation end time	200458113.184000	200459492.36198			
Observation end date	2004-05-09T02:47:29	2004-05-09T03:11:32			

2.3 Aspect



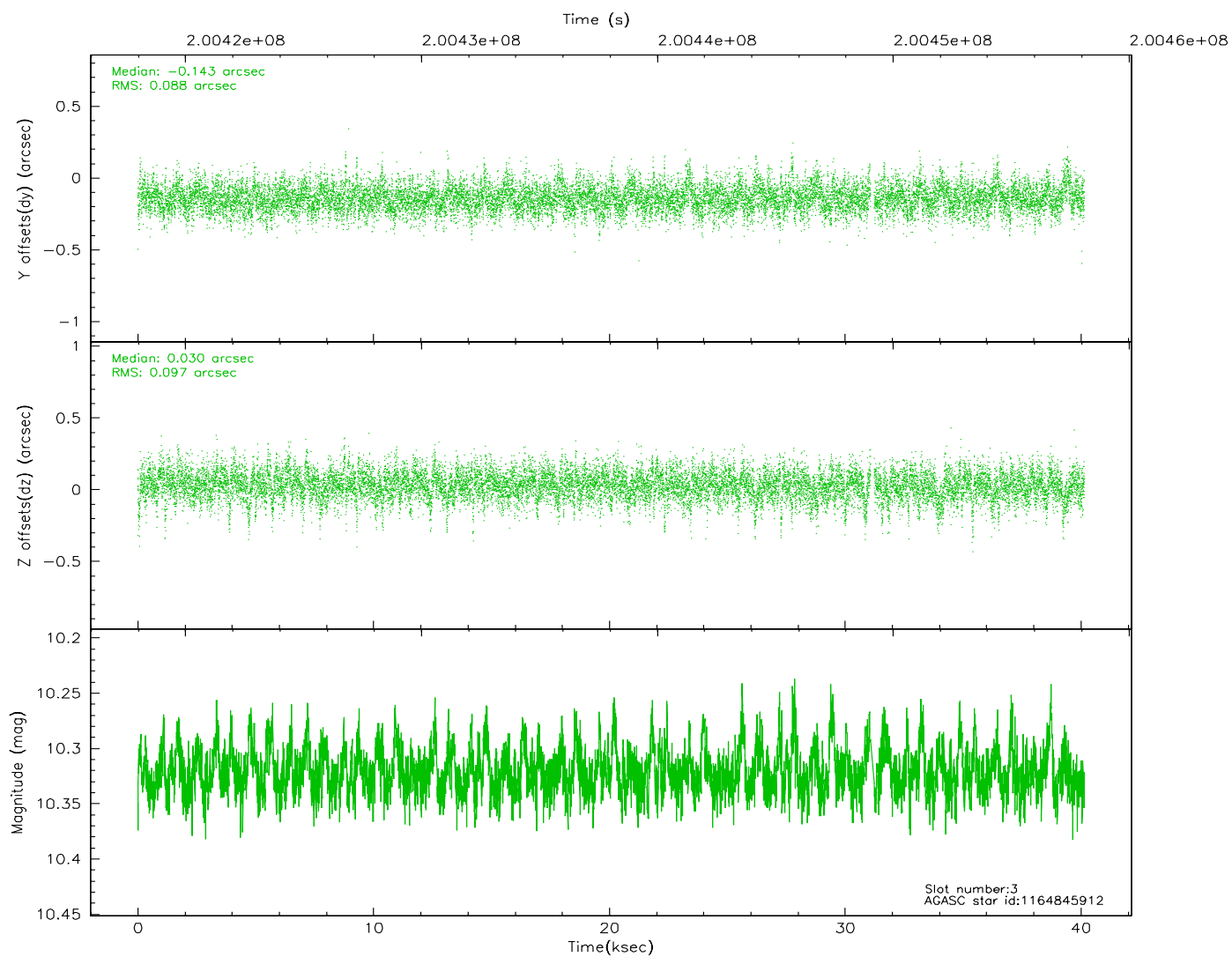
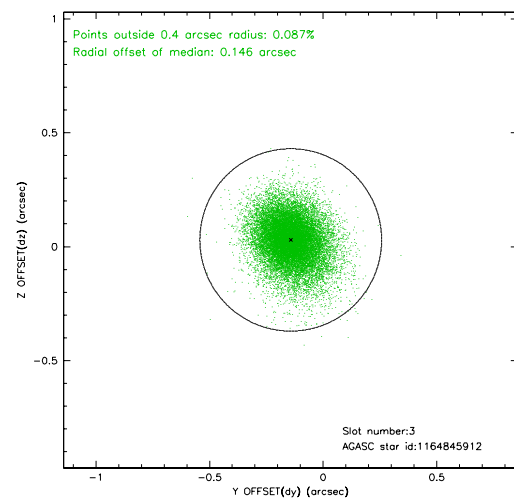
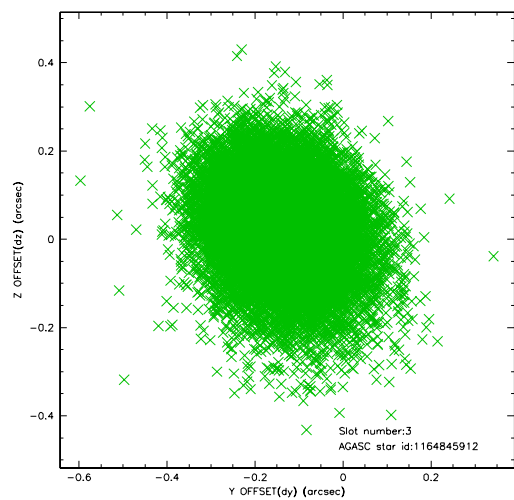


Slot Statistics

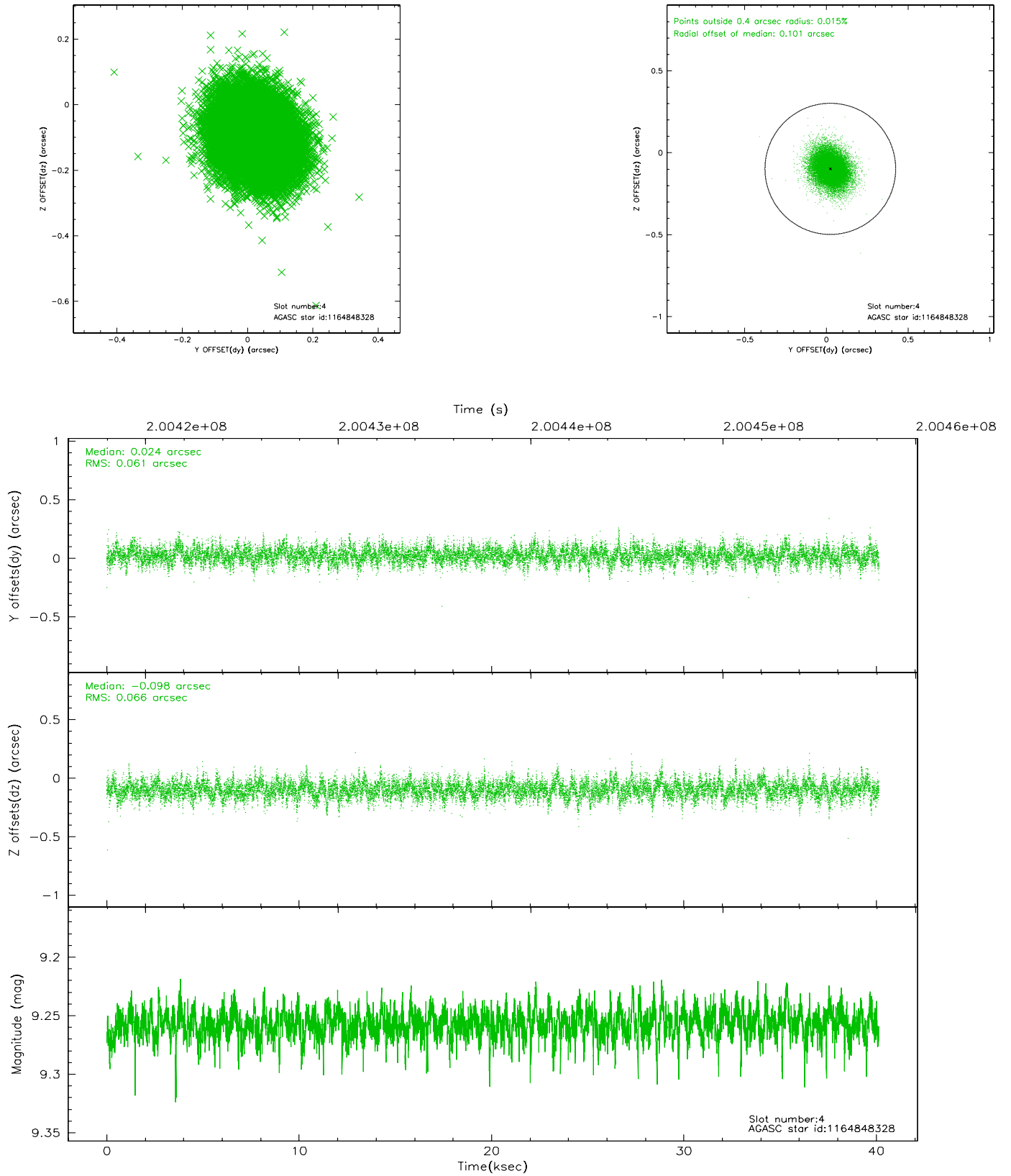
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.01	9793	0.106	-0.170	0.017	0.047	0.000000	0.000000	-1160.10	-467.60
1	FID	HRC-S-2	6.99	9792	0.149	-0.098	0.010	0.017	0.000000	0.000000	1239.50	-460.24
2	FID	HRC-S-3	7.02	9793	0.135	-0.033	0.021	0.049	0.000000	0.000000	-1162.66	562.01
3	GUIDE	1164845912	10.32	19482	-0.143	0.030	0.136	0.231	85.697231	-64.294189	-616.87	1573.22
4	GUIDE	1164848328	9.26	19571	0.024	-0.098	0.094	0.157	84.701267	-64.093054	184.91	50.68
5	GUIDE	1166544016	9.68	19553	0.051	-0.065	0.135	0.223	86.089673	-64.349585	-976.56	2107.01
6	GUIDE	1166548256	8.76	19581	0.033	0.149	0.085	0.137	85.738698	-64.074093	-1153.85	987.34
7	GUIDE	1164840584	9.11	19571	0.030	-0.010	0.119	0.197	82.750564	-63.883359	2231.86	-2370.99

2.4 Star Slots

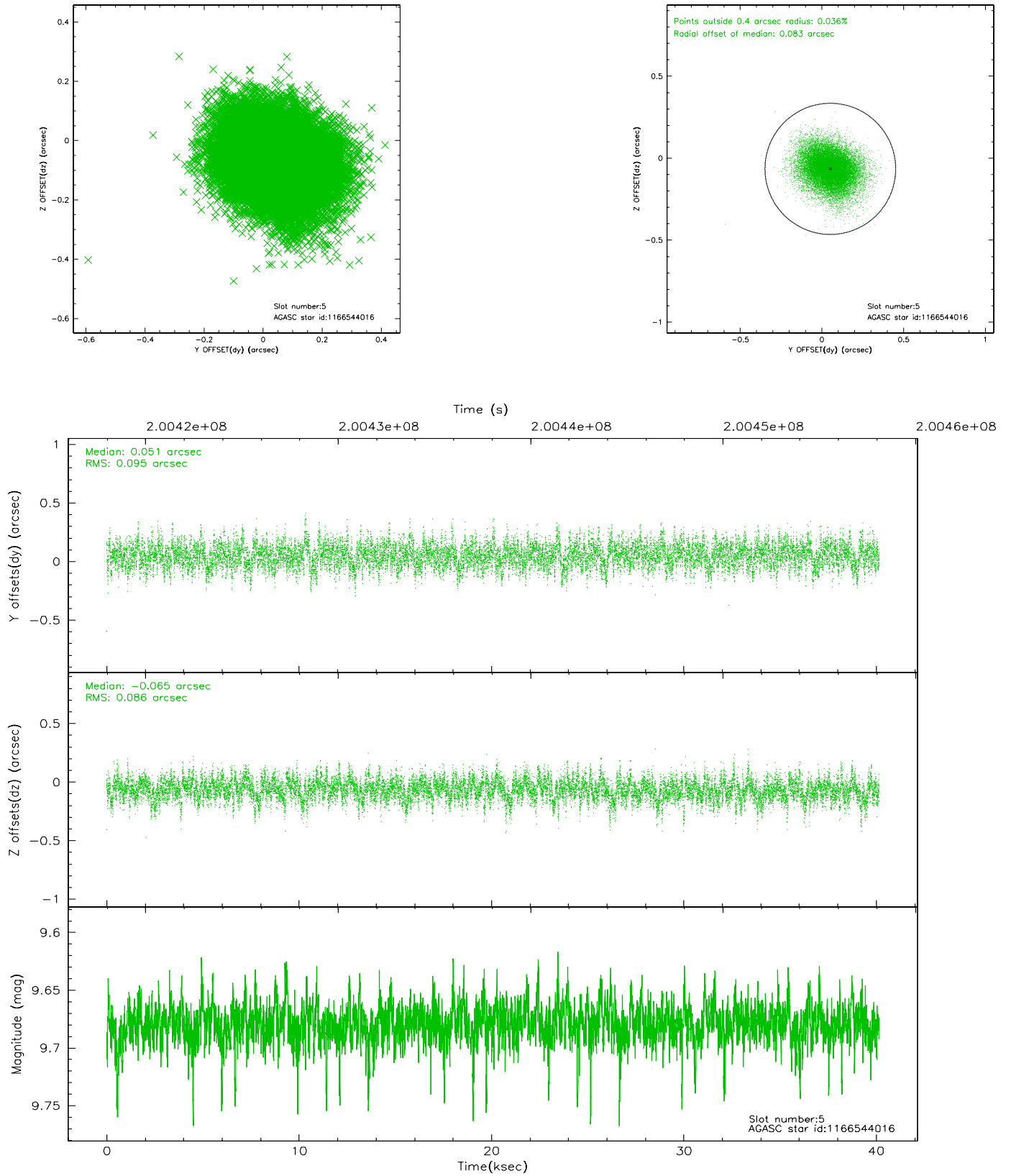
2.4.1 Slot 3



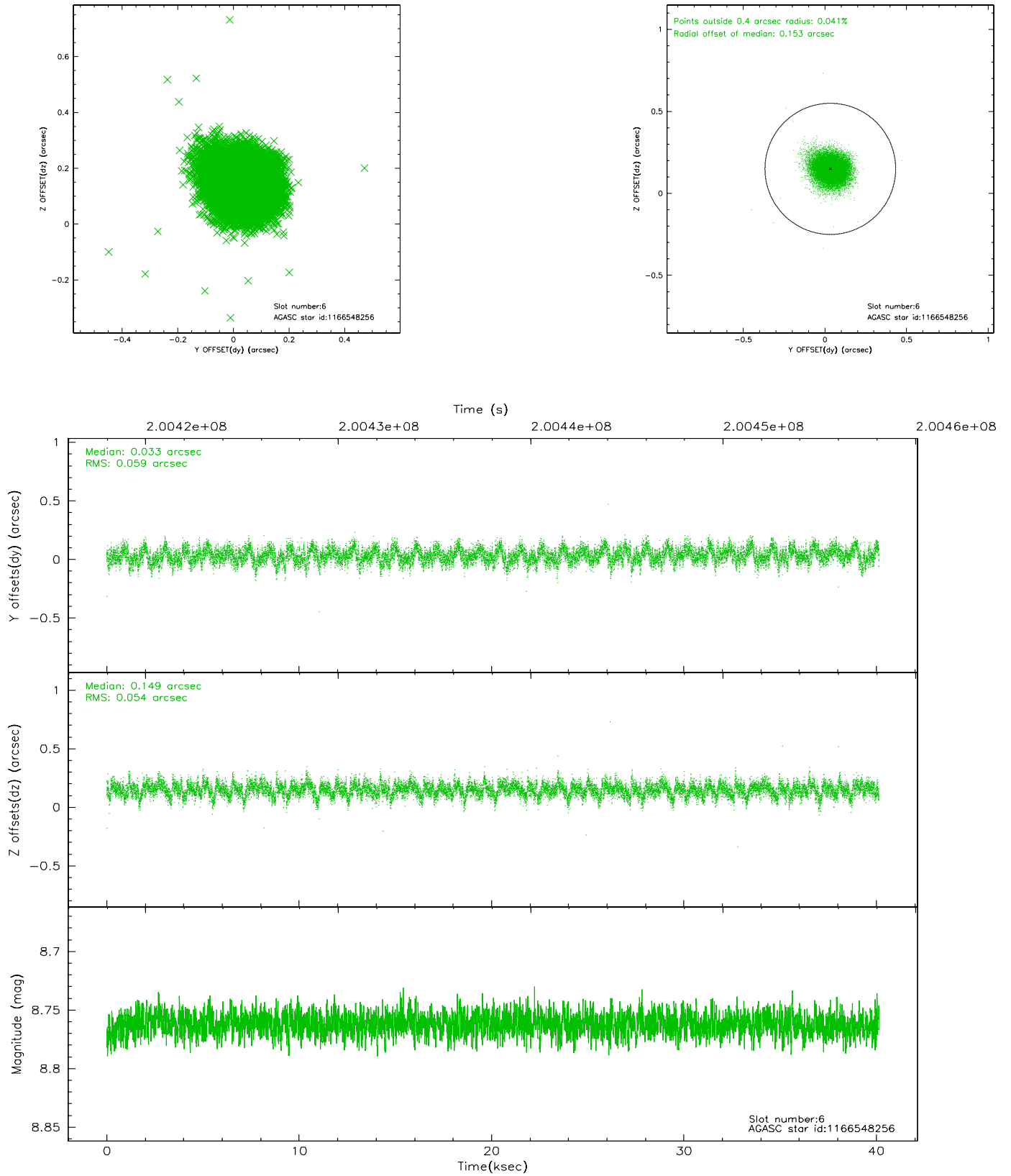
2.4.2 Slot 4



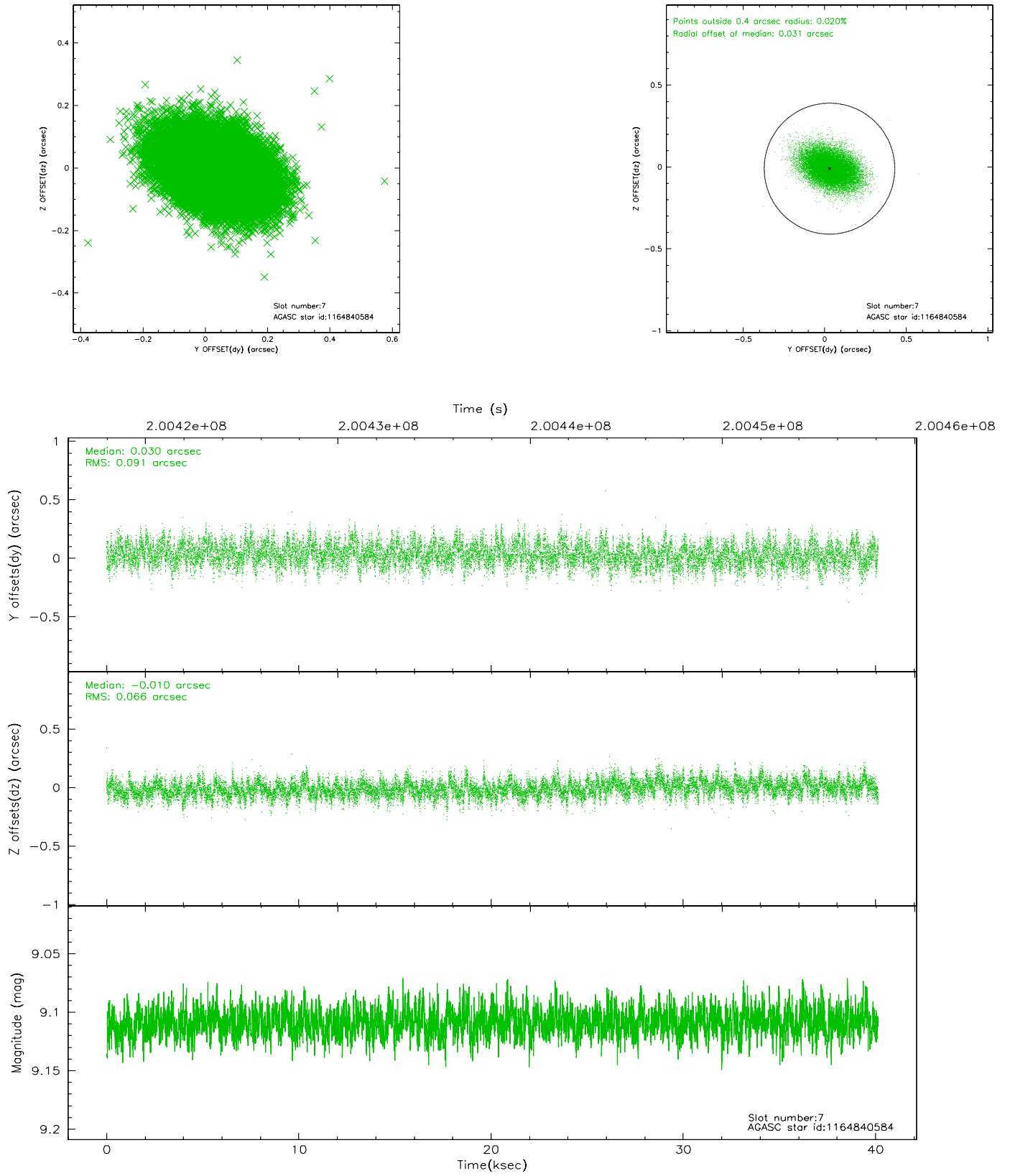
2.4.3 Slot 5



2.4.4 Slot 6

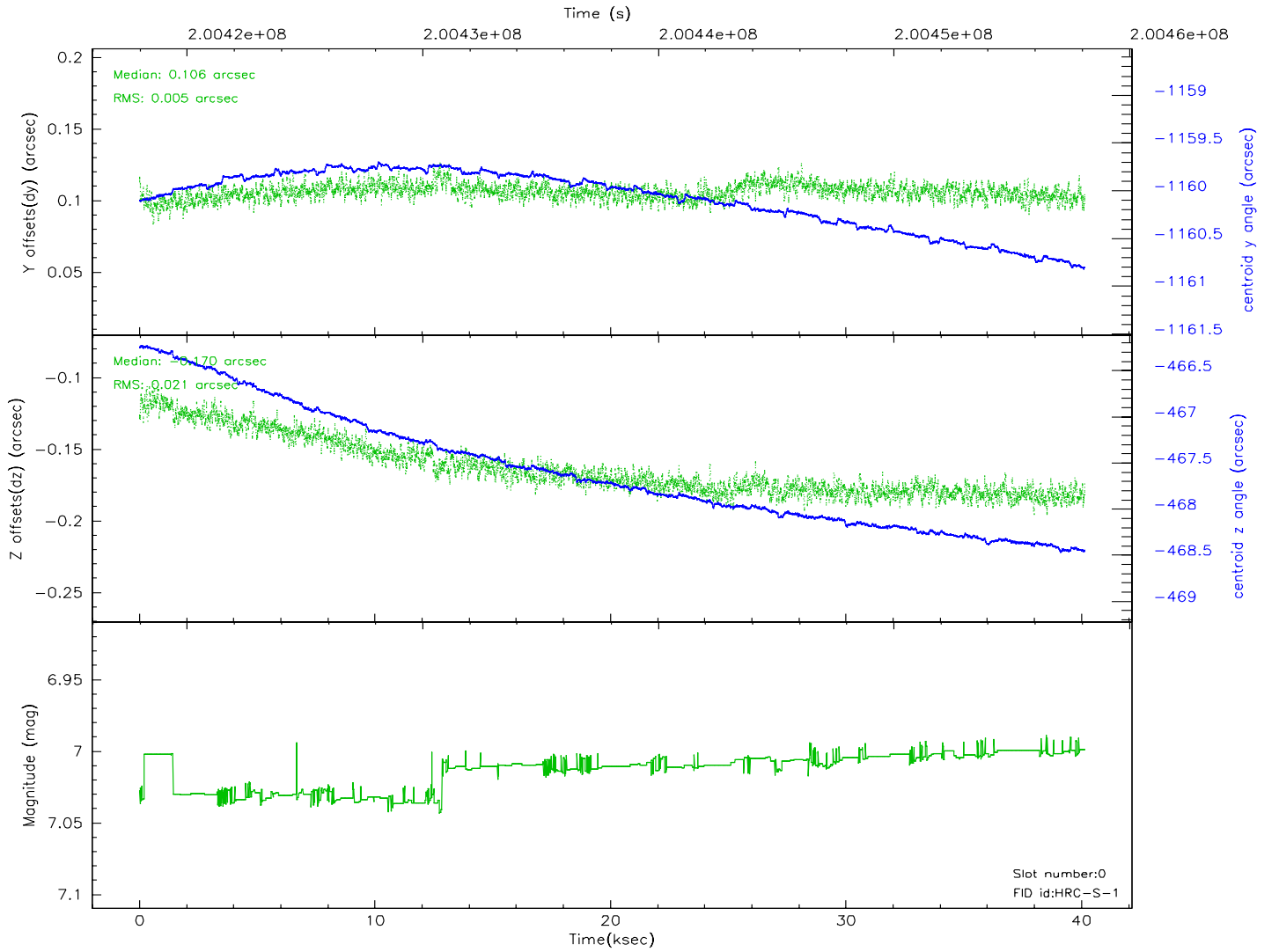
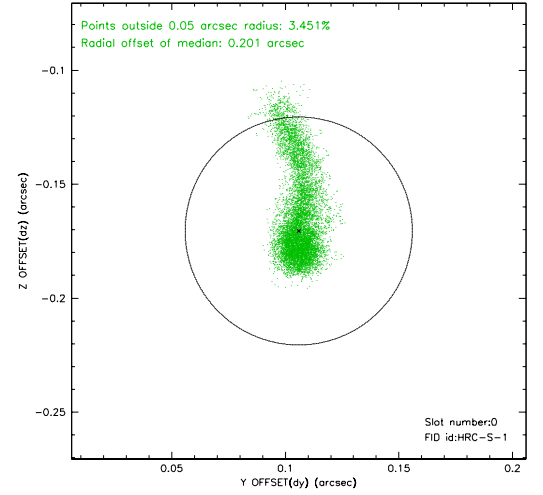
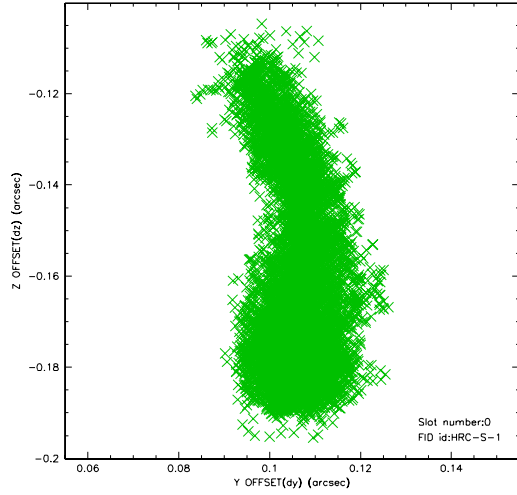


2.4.5 Slot 7

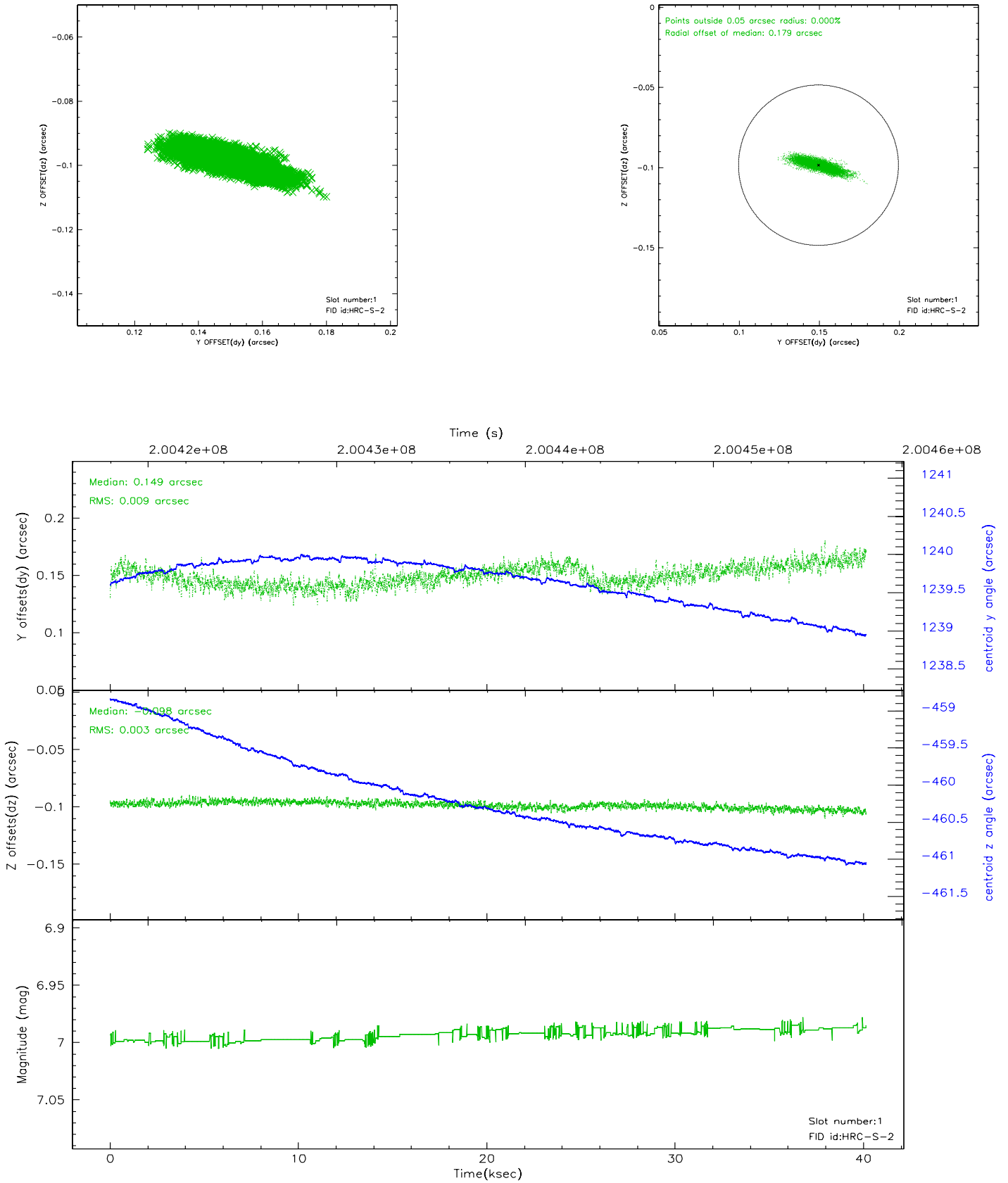


2.5 FID Slots

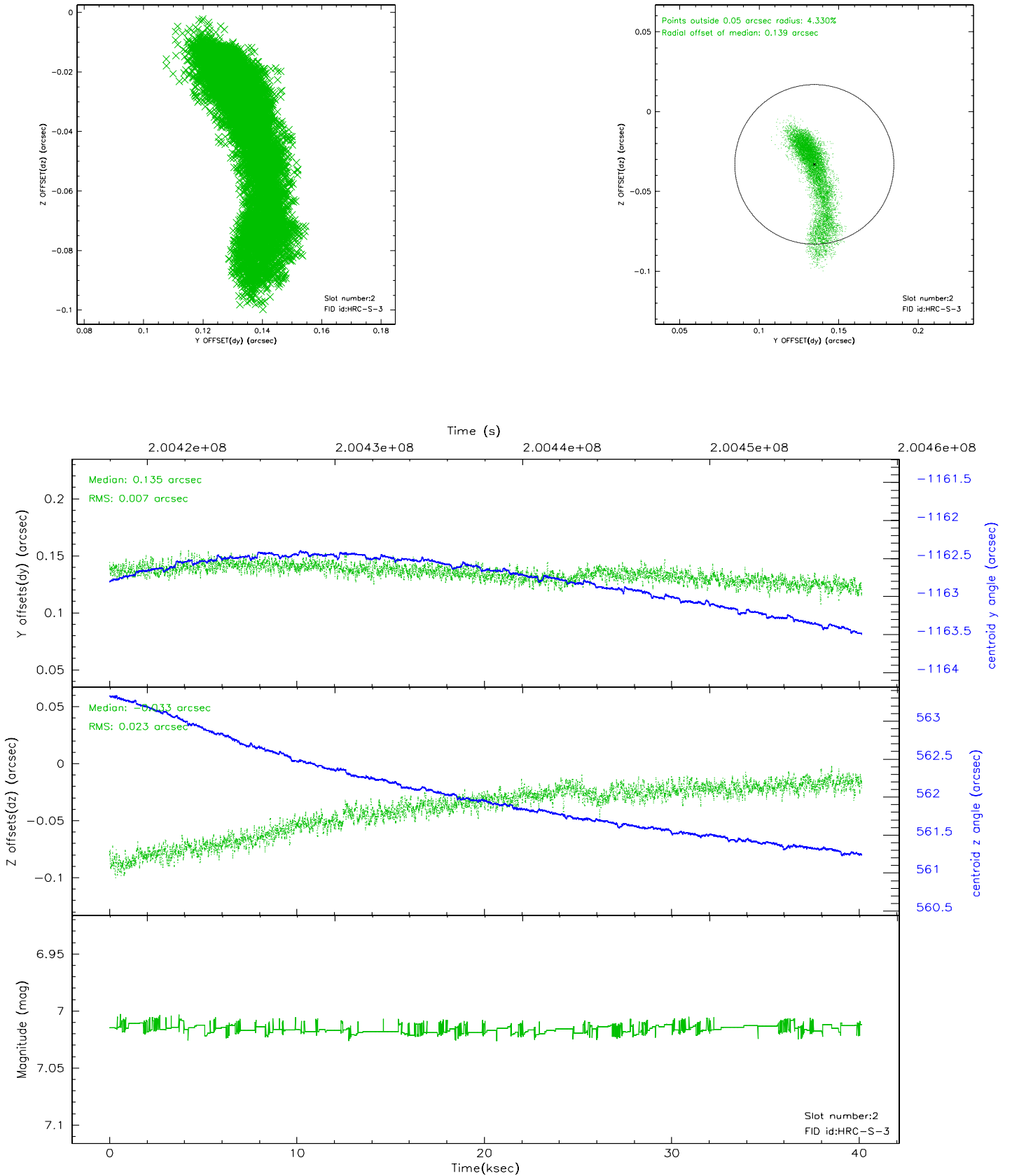
2.5.1 Slot 0



2.5.2 Slot 1

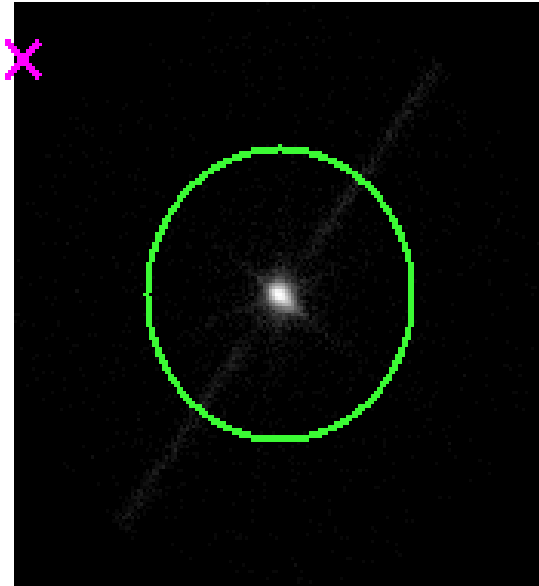


2.5.3 Slot 2



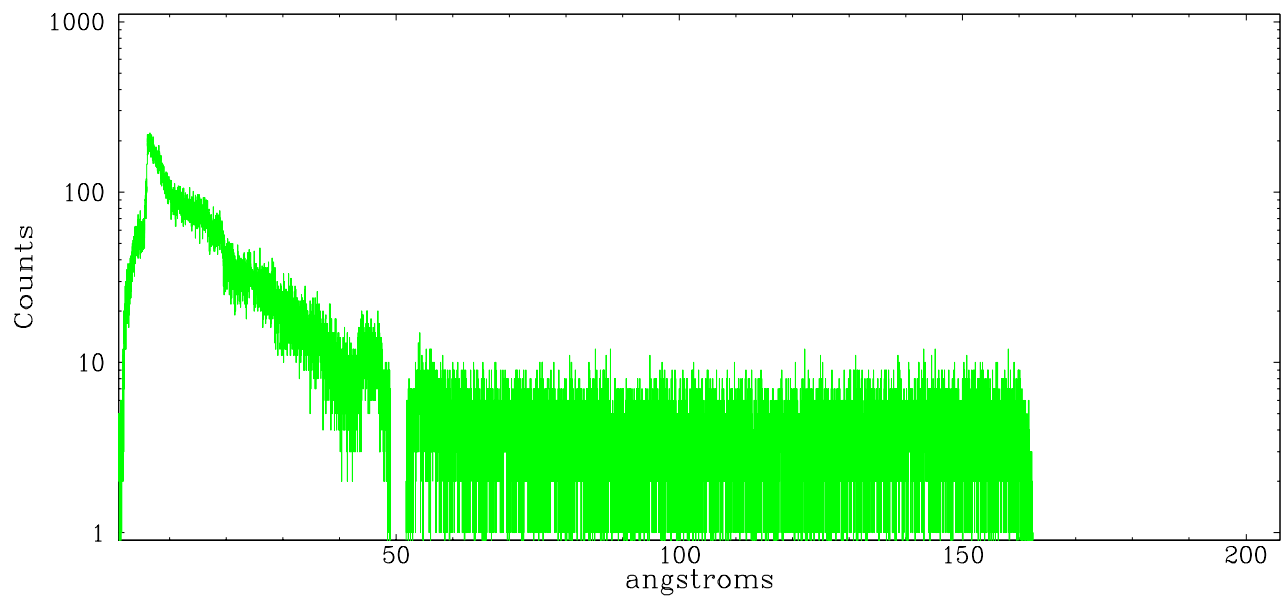
3 Gratings

3.1 LETG Arm

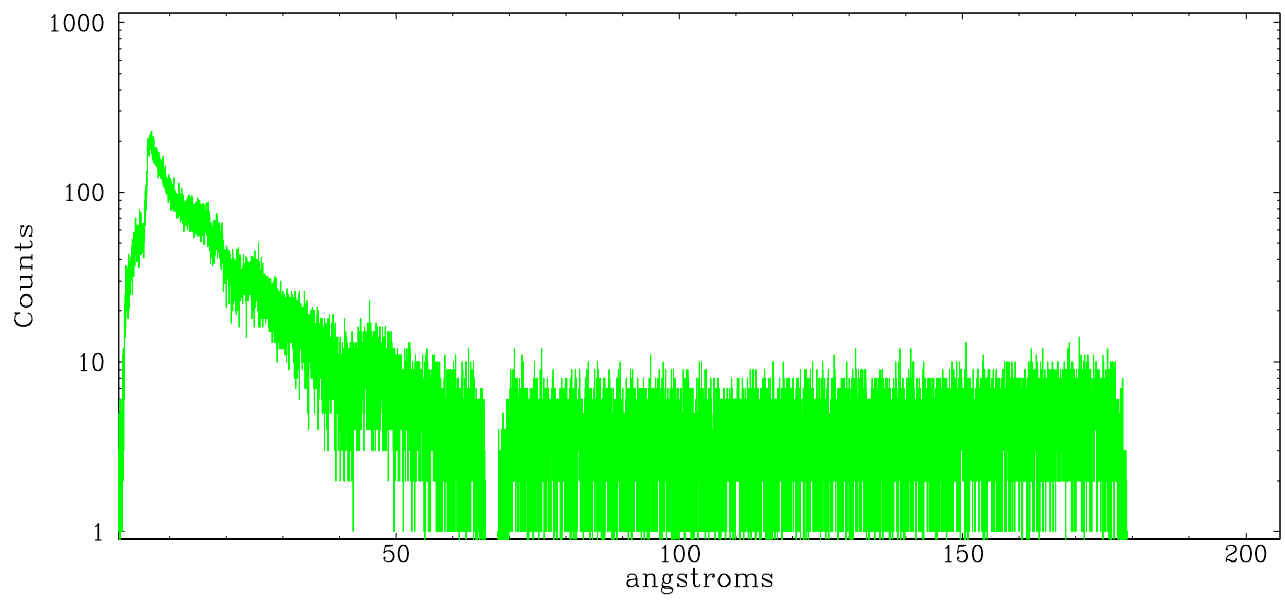


LETG Zero Order

leg order -1



leg order $+1$



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.05.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.831

A.2 Comments

Zeroth order source is elongated due to instrumental effects.

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 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.