

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 1591 - L2 Version 001
Chandra X-Ray Center

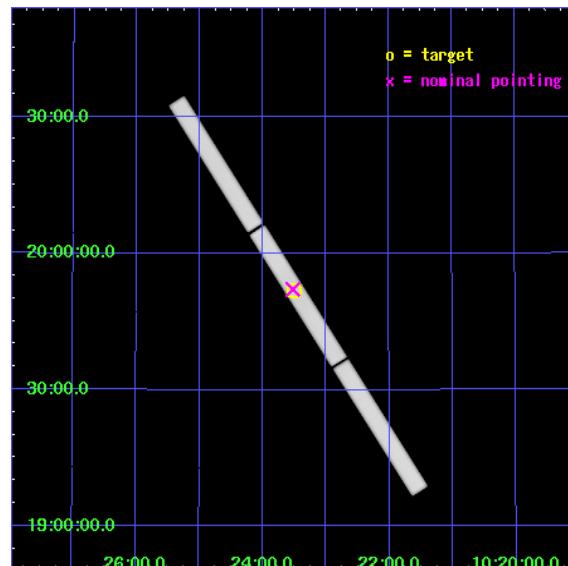
L2 Processing Date : Jun 12 2007

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

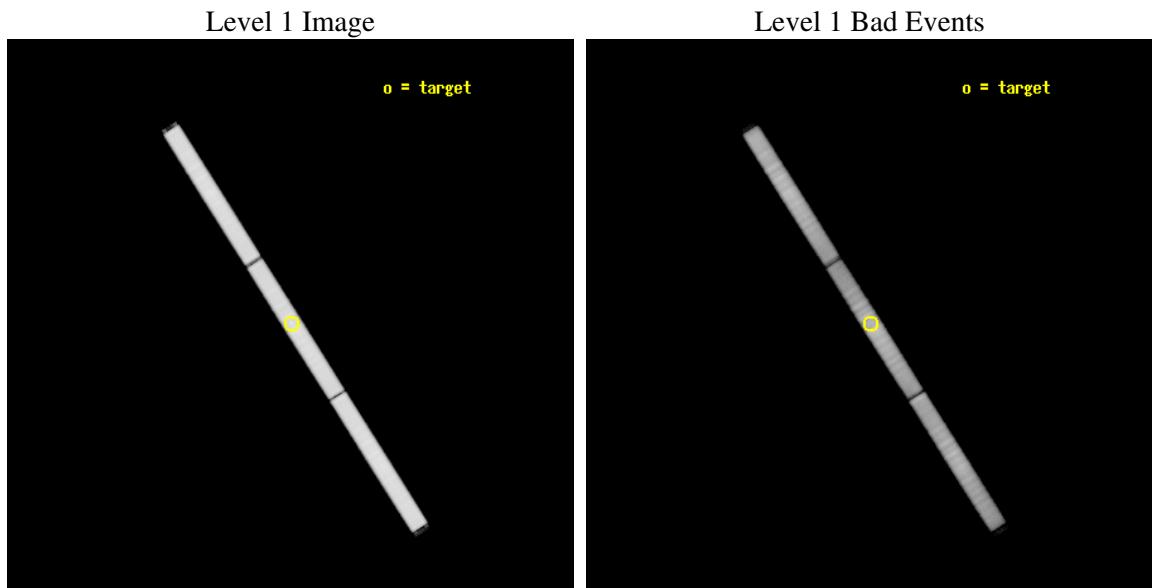
seq_num	700207
obs_id	1591
title	NGC 3227: PROPERTIES OF THE WARM ABSORBER
observer	Dr. Peter Predehl
object	NGC 3227
ra_targ	155.8775
dec_targ	19.865
ra_nom	155.88046505156
dec_nom	19.86900195979
roll_nom	57.56633035298
revision	4
ontime	96305.15988639
livetime	95713.136107836
l2events	4520813



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-12T19:02:27
revision	4

sched_exp_time	96475.000000
ontime	96305.159890398
l1events	6714871

2.1.3 Events

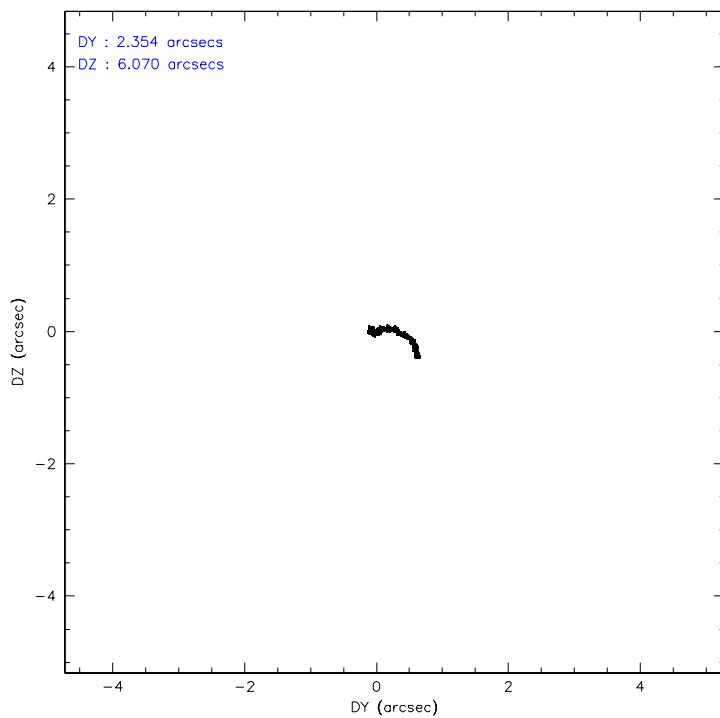
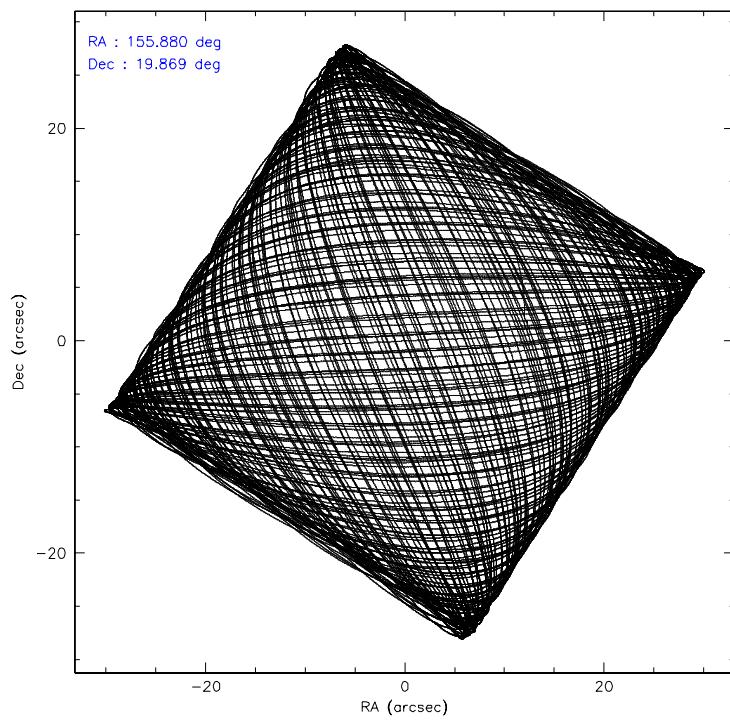
Level 1 Events

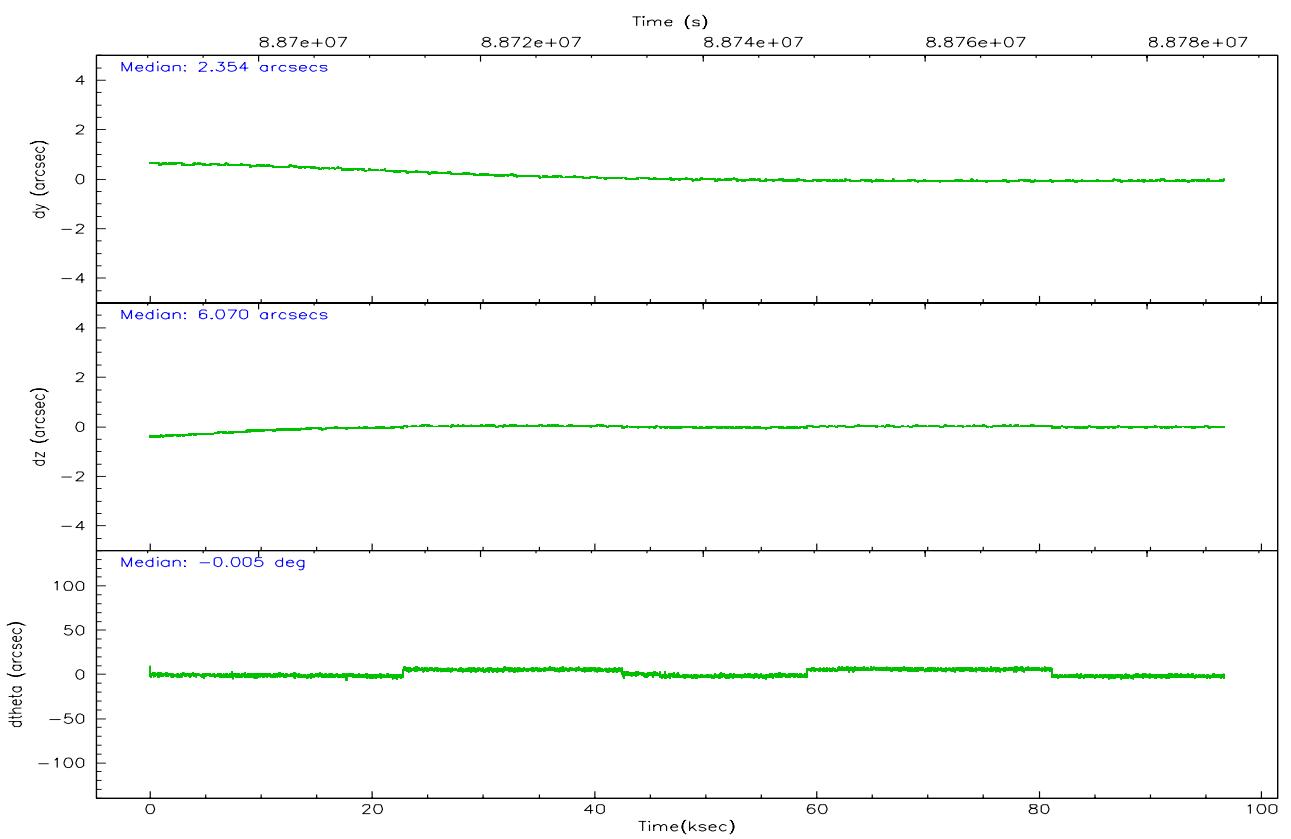
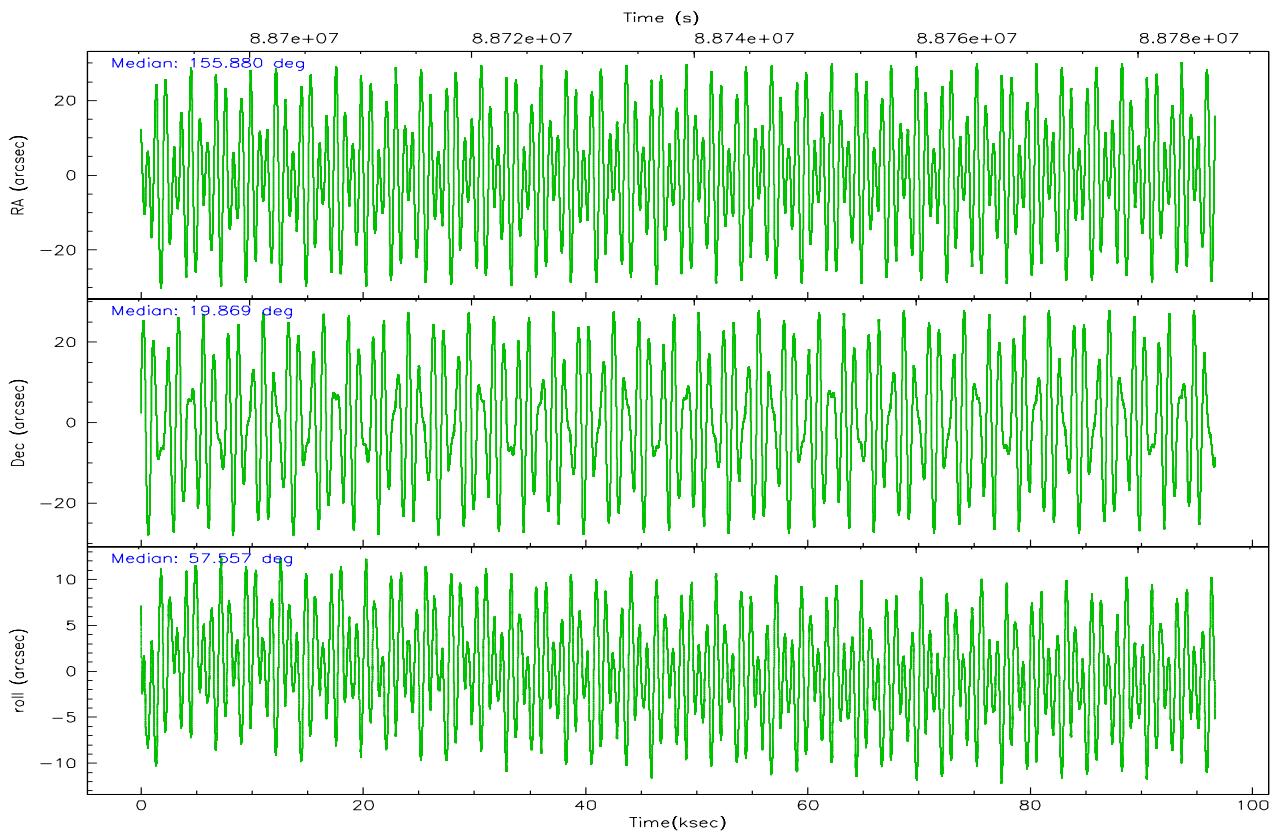
	segment 1	segment 2	segment 3
level 1 events	2309979	2166486	2238406
rejected events	490863	522751	605708
rejected %	21%	24%	27%

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	155.880501	155.8804650515578			
Pointing Dec	19.840278	19.86900195978955			
Pointing Roll	57.498981	57.56633035298017			
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	88690433.184000	88689628.64749999			
Observation start date	2000-10-23T12:12:49	2000-10-23T12:00:28			
Observation end time	88786908.184000	88787176.36368699			
Observation end date	2000-10-24T15:00:44	2000-10-24T15:06:16			

2.3 Aspect



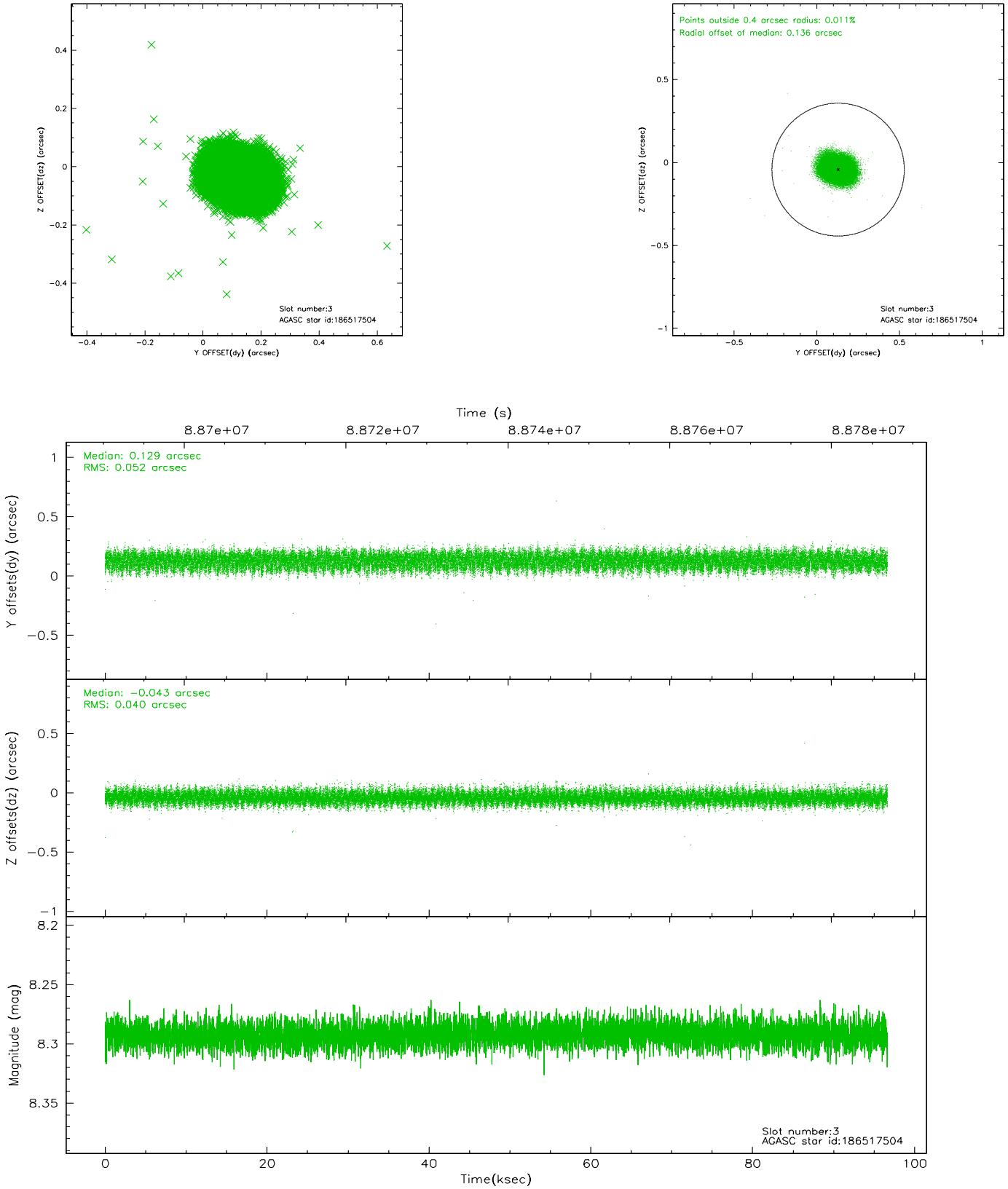


Slot Statistics

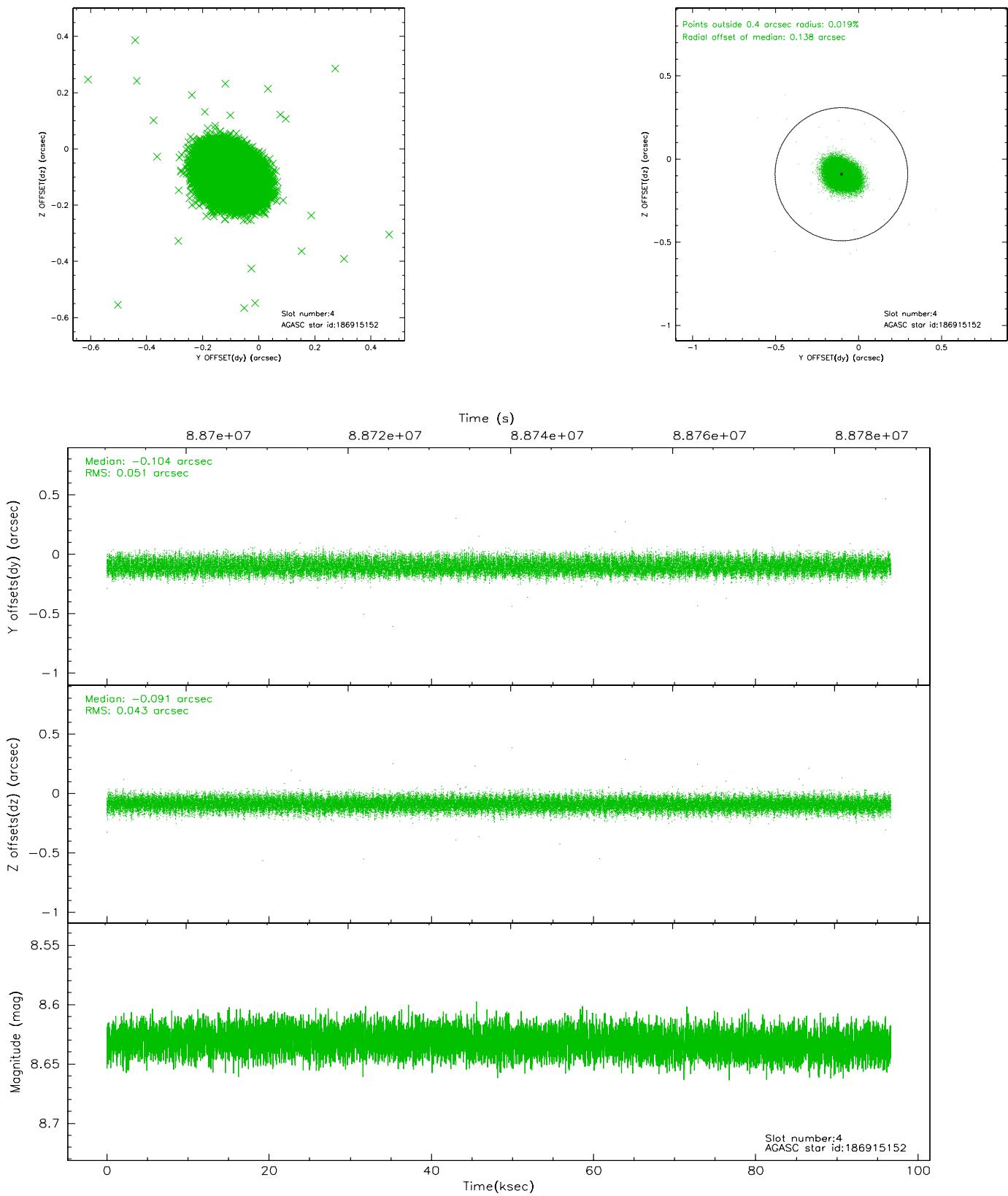
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.98	23576	0.098	-0.136	0.014	0.020	0.000000	0.000000	-1156.53	-454.61
1	FID	HRC-S-3	7.00	23577	0.155	-0.073	0.013	0.021	0.000000	0.000000	-1159.27	574.97
2	FID	HRC-S-4	6.94	23573	0.131	-0.087	0.008	0.013	0.000000	0.000000	1241.69	577.62
3	GUIDE	186517504	8.29	47146	0.129	-0.043	0.071	0.111	155.199091	19.538995	-2152.45	1369.31
4	GUIDE	186915152	8.63	47139	-0.104	-0.091	0.071	0.112	155.481319	20.053598	-76.01	1552.08
5	GUIDE	186515560	9.39	47117	-0.021	0.101	0.081	0.132	155.836391	19.698002	-511.60	-148.90
6	GUIDE	186517264	9.03	47137	0.008	-0.053	0.077	0.128	155.474034	19.793179	-880.92	1070.97
7	GUIDE	186517432	9.12	47136	-0.014	0.086	0.075	0.125	155.977538	19.585156	-596.92	-770.83

2.4 Star Slots

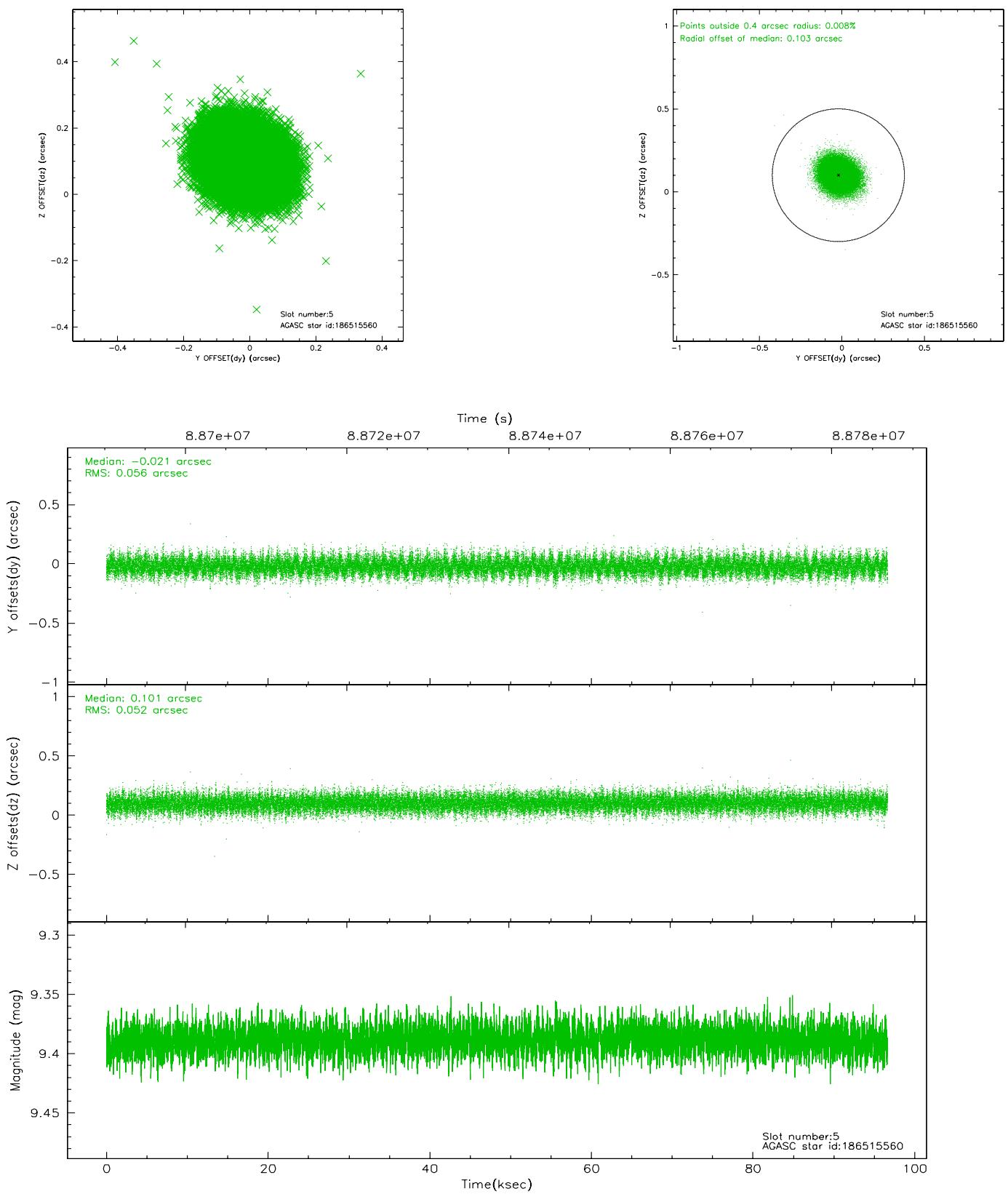
2.4.1 Slot 3



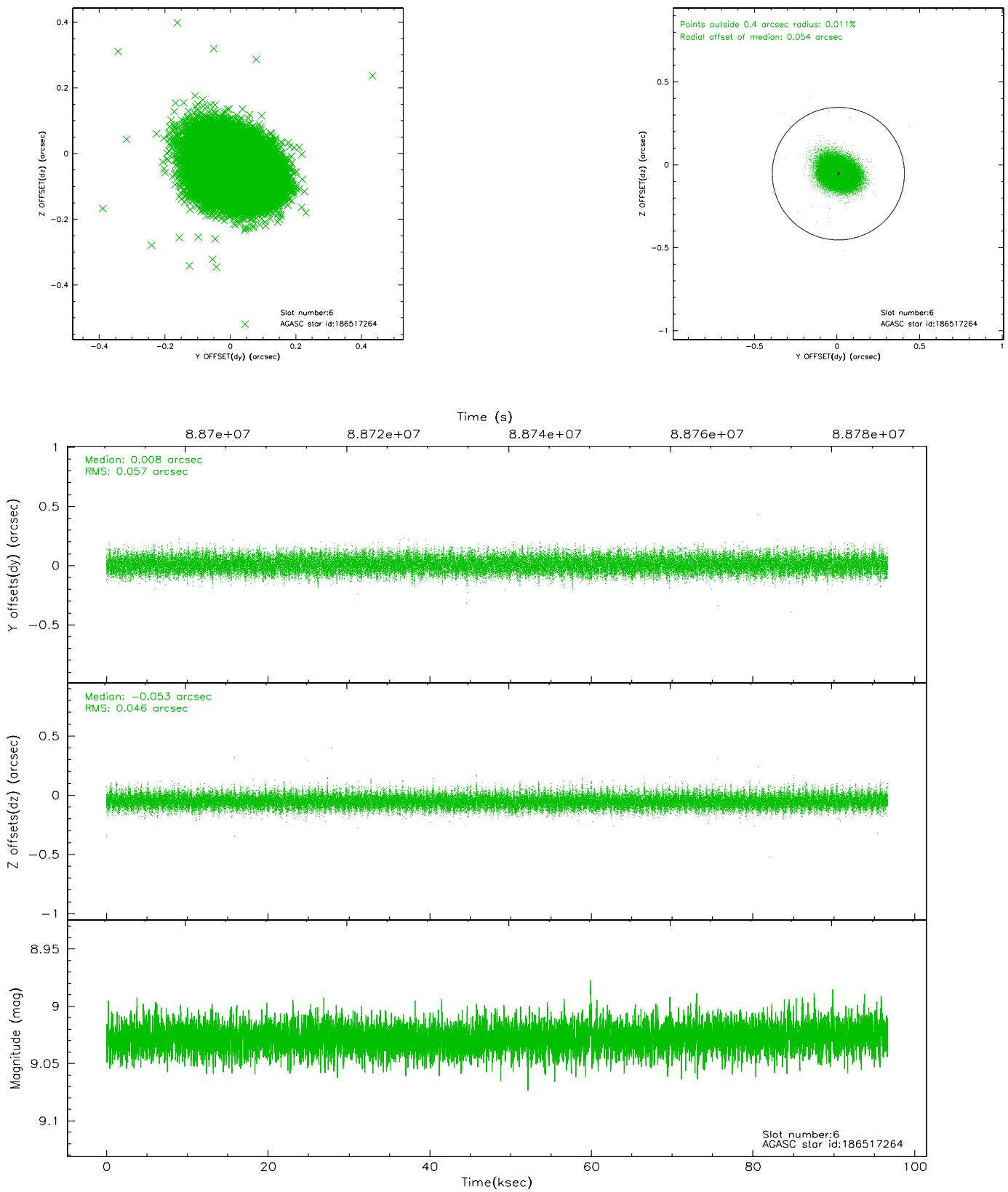
2.4.2 Slot 4



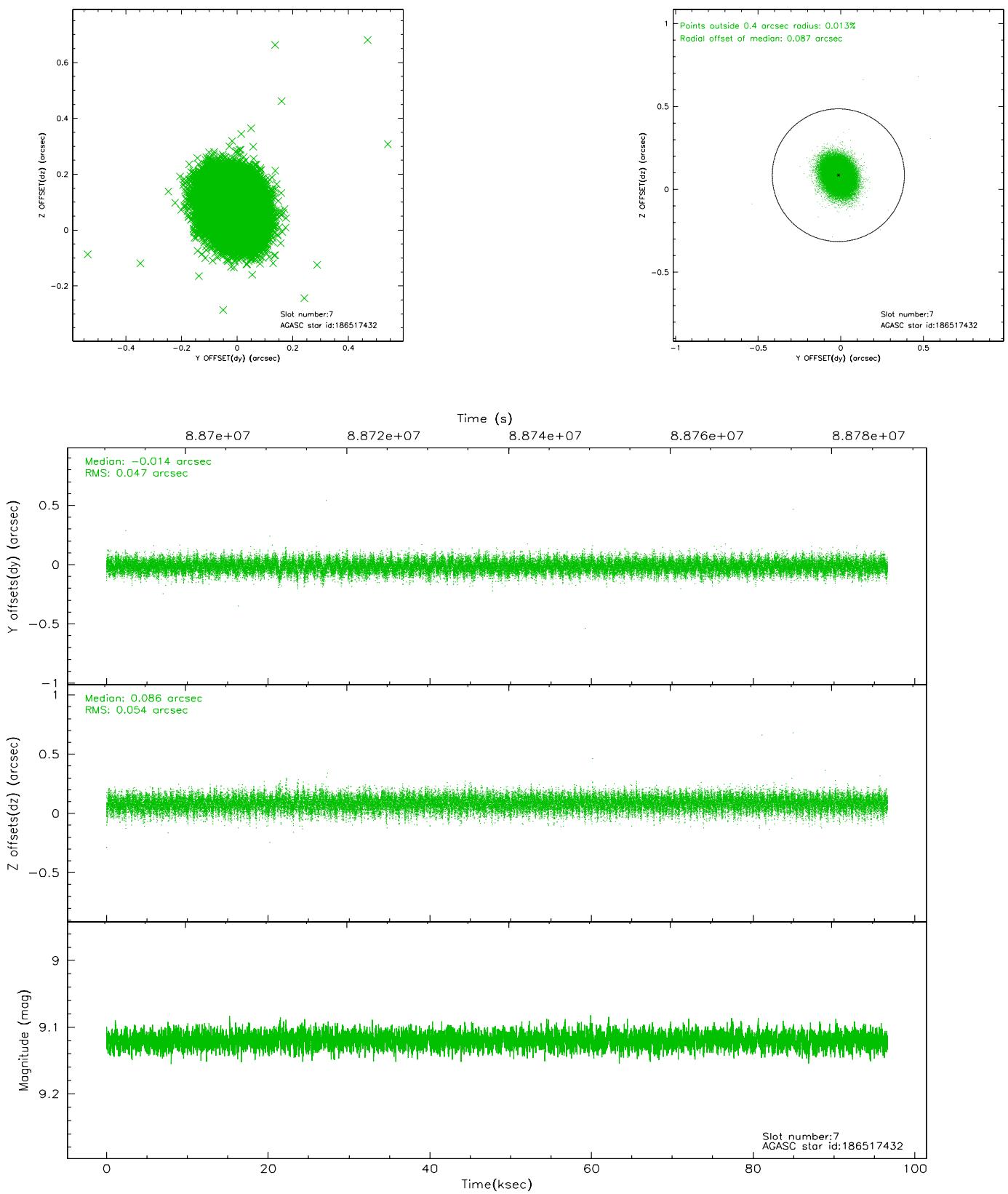
2.4.3 Slot 5



2.4.4 Slot 6

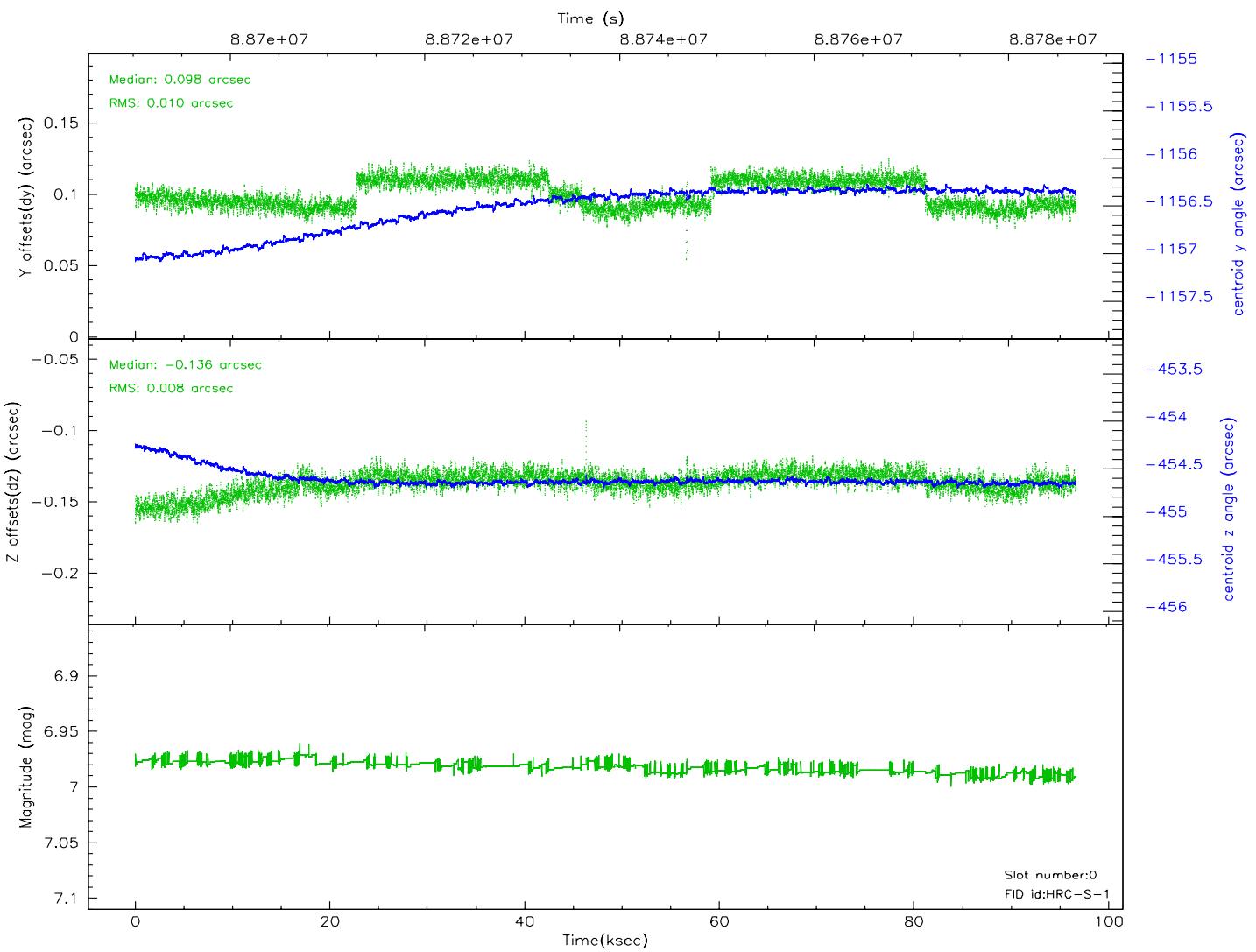
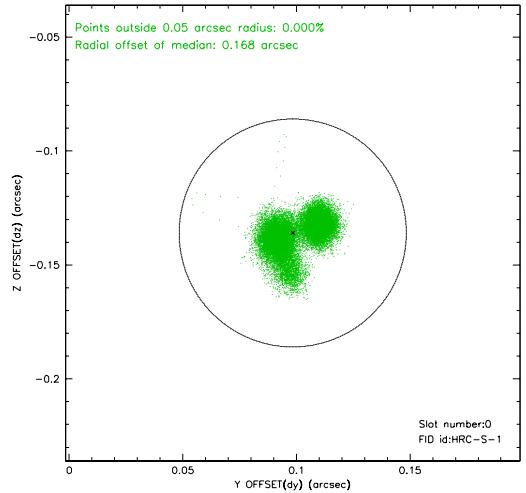
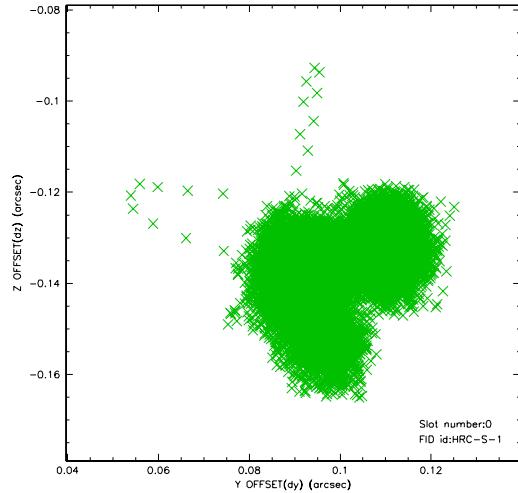


2.4.5 Slot 7

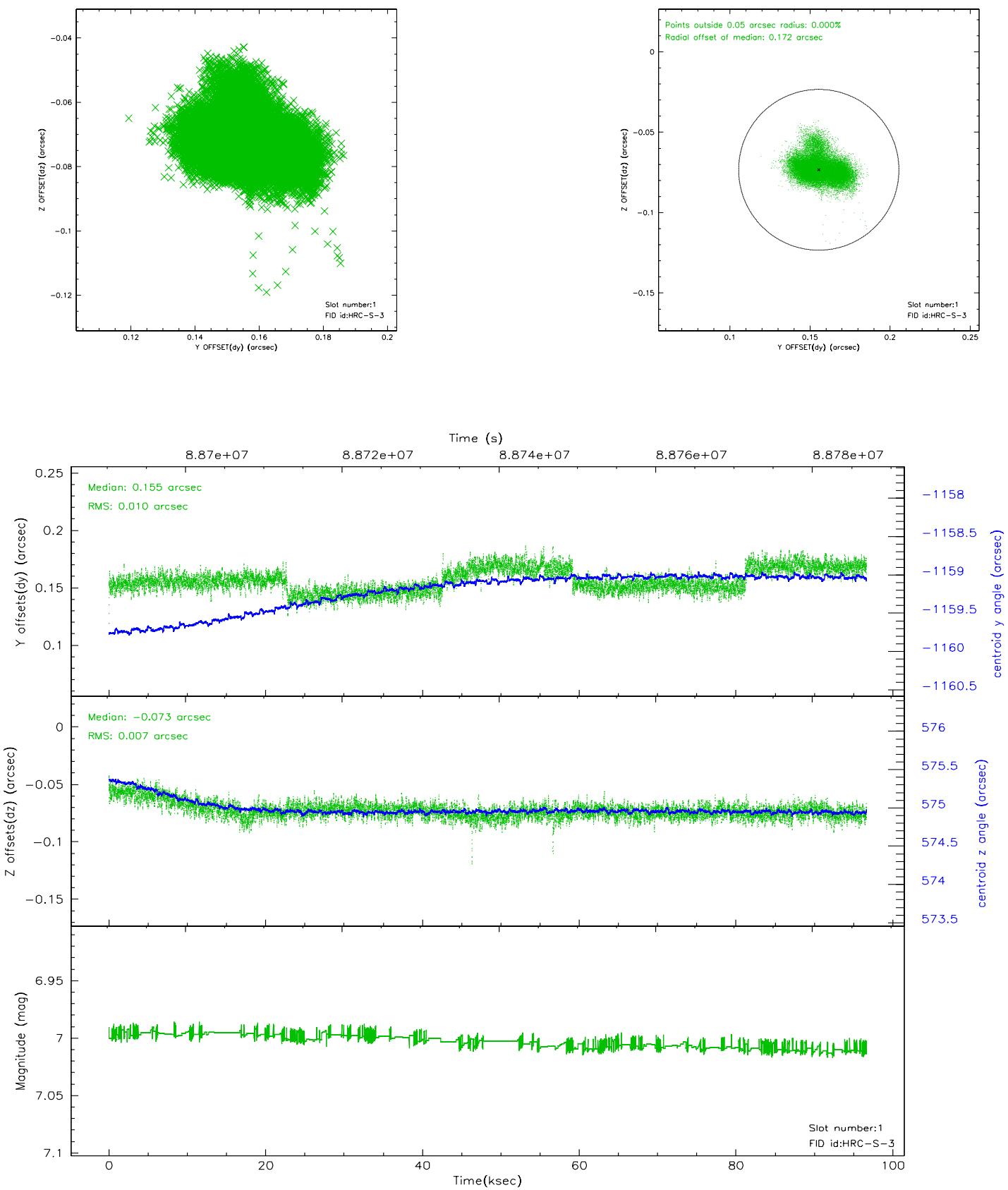


2.5 FID Slots

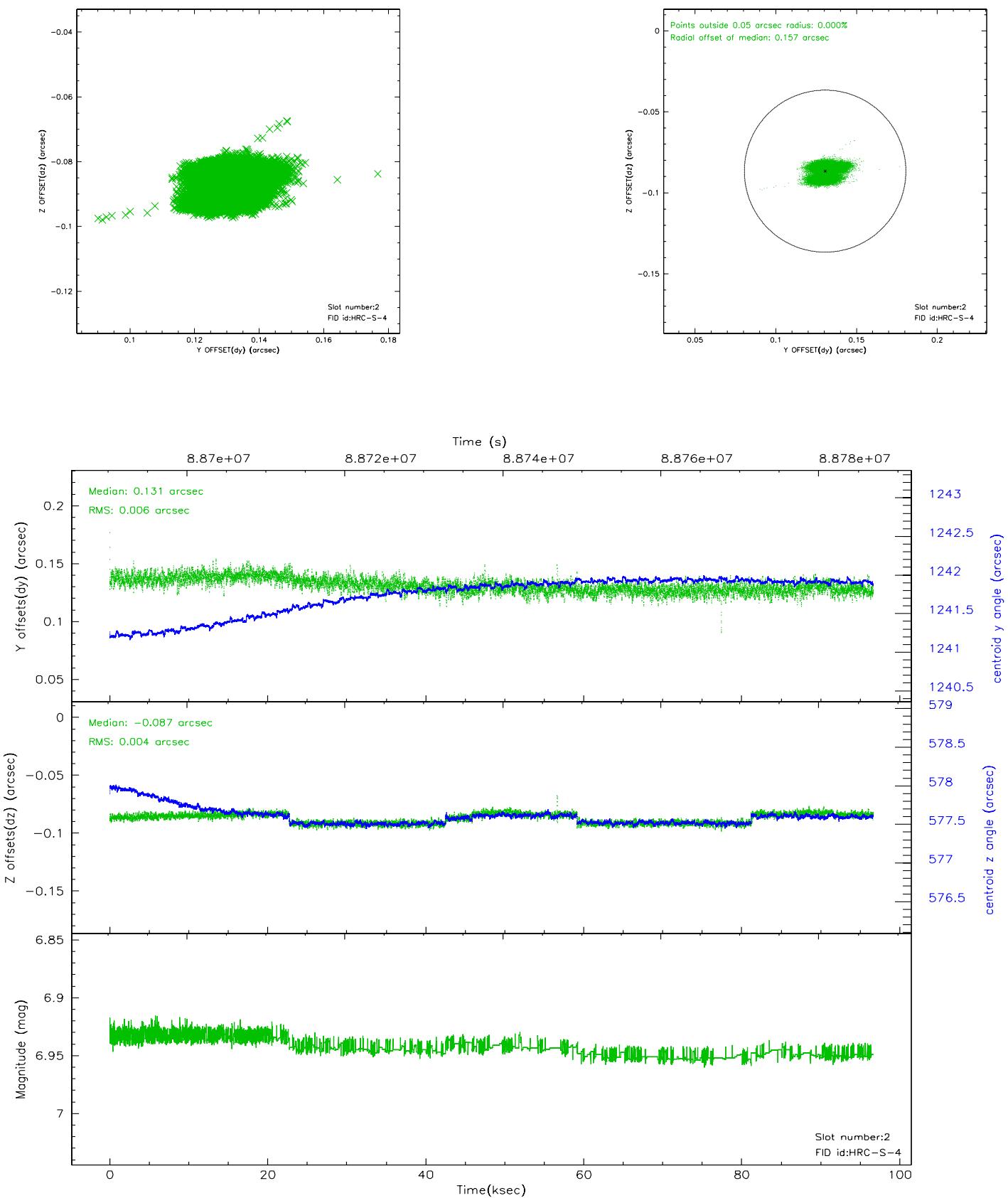
2.5.1 Slot 0



2.5.2 Slot 1

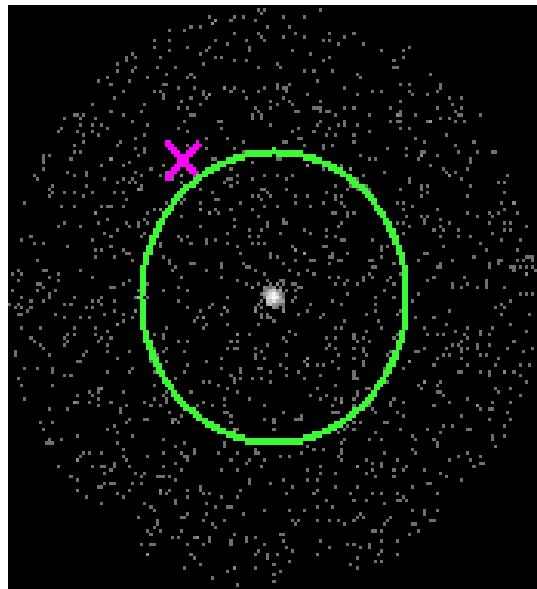


2.5.3 Slot 2



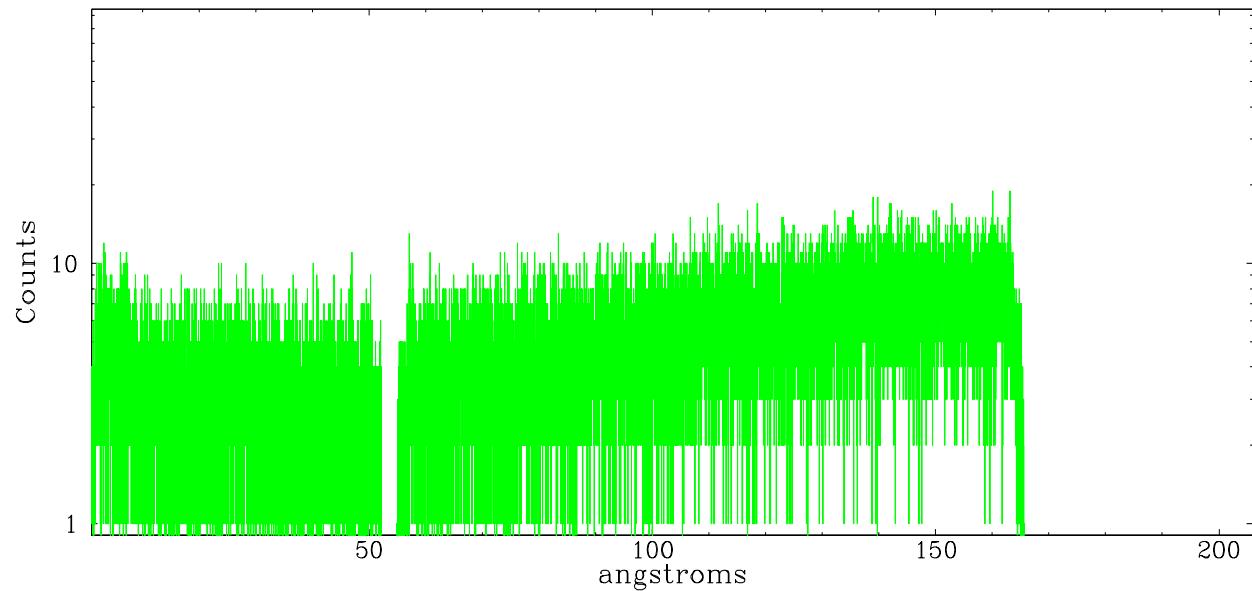
3 Gratings

3.1 LETG Arm

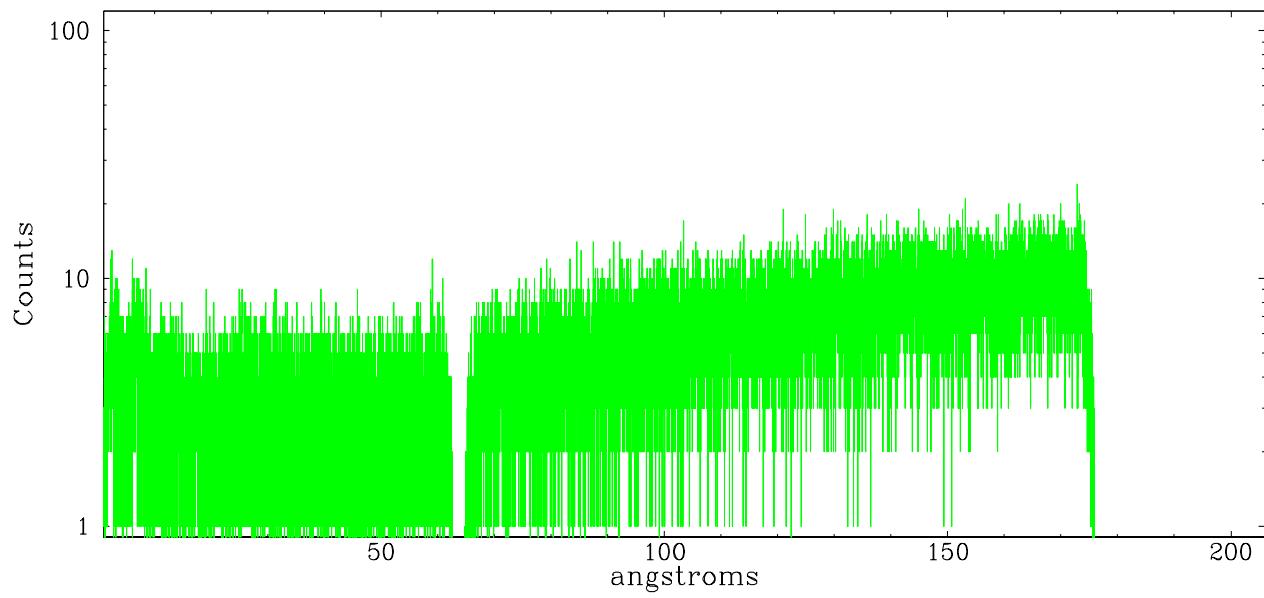


LETG Zero Order

leg order -1



leg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.06.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	96.274

A.2 Comments

There are several periods of enhanced count rate during this observation,
due to a high radiation environment. The dead time factor (DTF) file
reflects the periods of anomalously high count rates.