

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 12100 - L2 Version 2  
Chandra X-Ray Center

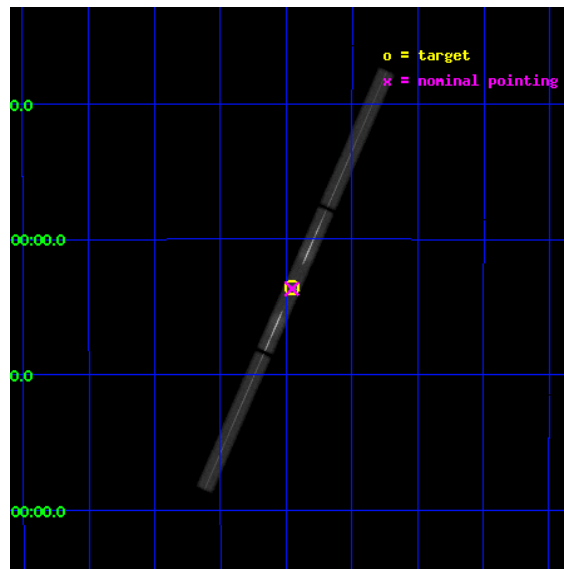
L2 Processing Date : Jun 27 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
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
<b>3</b>	<b>Gratings</b>	<b>17</b>
3.1	LETG Arm . . . . .	17
<b>A</b>	<b>Summary</b>	<b>19</b>
A.1	Status . . . . .	19
A.2	Comments . . . . .	19

# 1 Front

seq_num	300275	Sequence number
obs_id	12100	Observation id
title	The bright super-supersoft souce phase of KT Eri	Proposal title
observer	Dr. Jeremy Drake	Principal investigator
object	KT Eri	Source name
ra_targ	71.975833	Observer's specified target RA [deg]
dec_targ	-10.178639	Observer's specified target Dec [deg]
ra_nom	71.977973011445	Nominal RA [deg]
dec_nom	-10.183198533523	Nominal Dec [deg]
roll_nom	293.74597494334	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5181.6315124631	[s]
livetime	2753.3558764297	Ontime multiplied by DTCOR
l2events	875925	Number of level 2 events

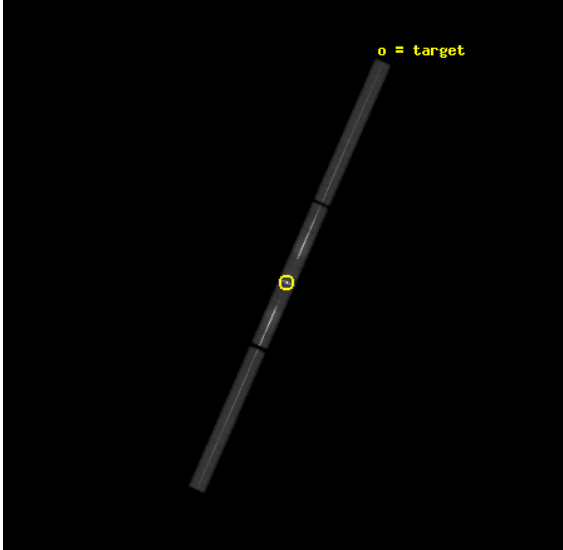


## 2 OBI

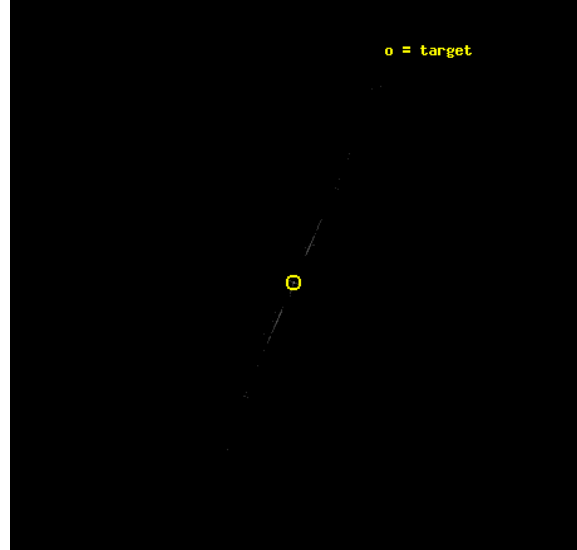
### 2.1 OBI

#### 2.1.1 Images

Level 1 Image



Level 1 Bad Events



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5181.6315124631	[s]
caldsver	4.5.0	&#160	l1events	1073834	Number of level 1 events
date	2012-06-27T16:00:41	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

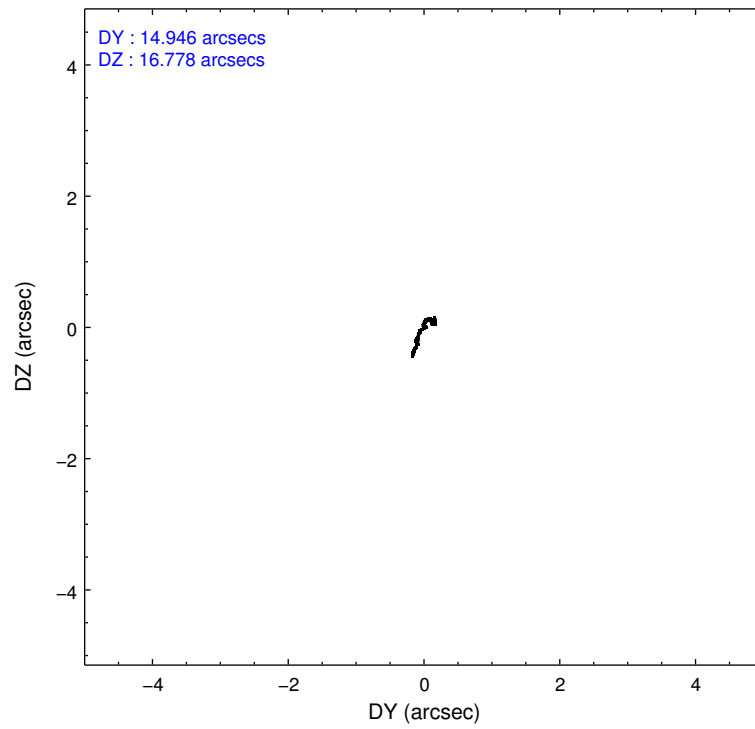
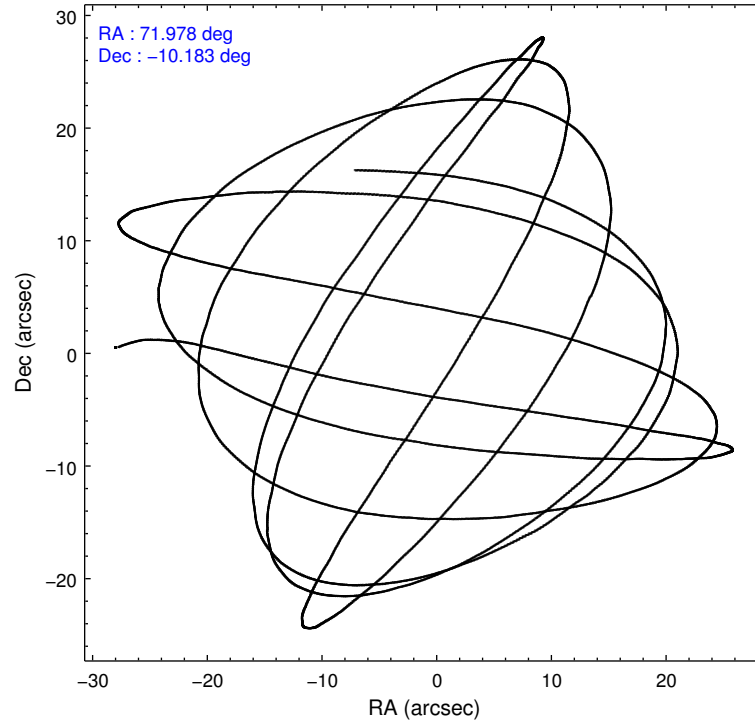
Level 1 Events

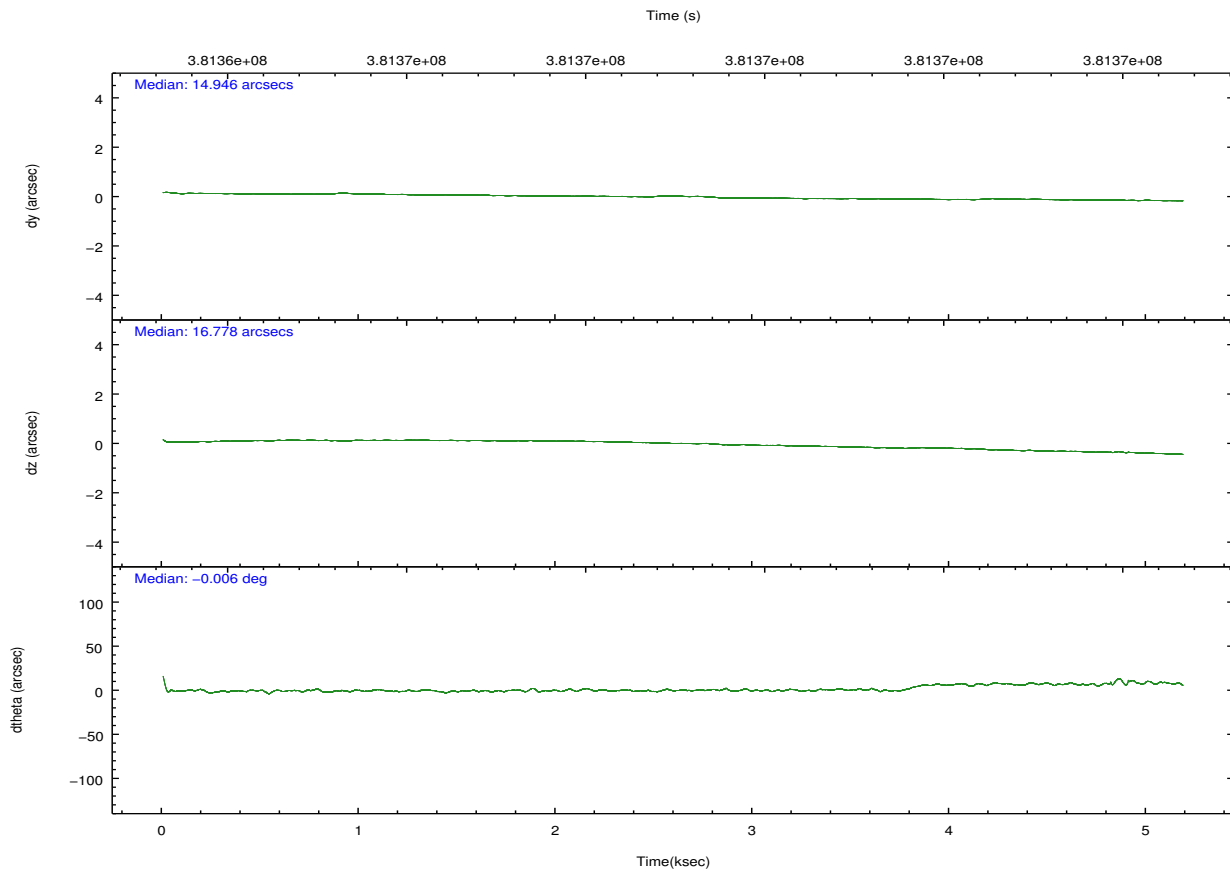
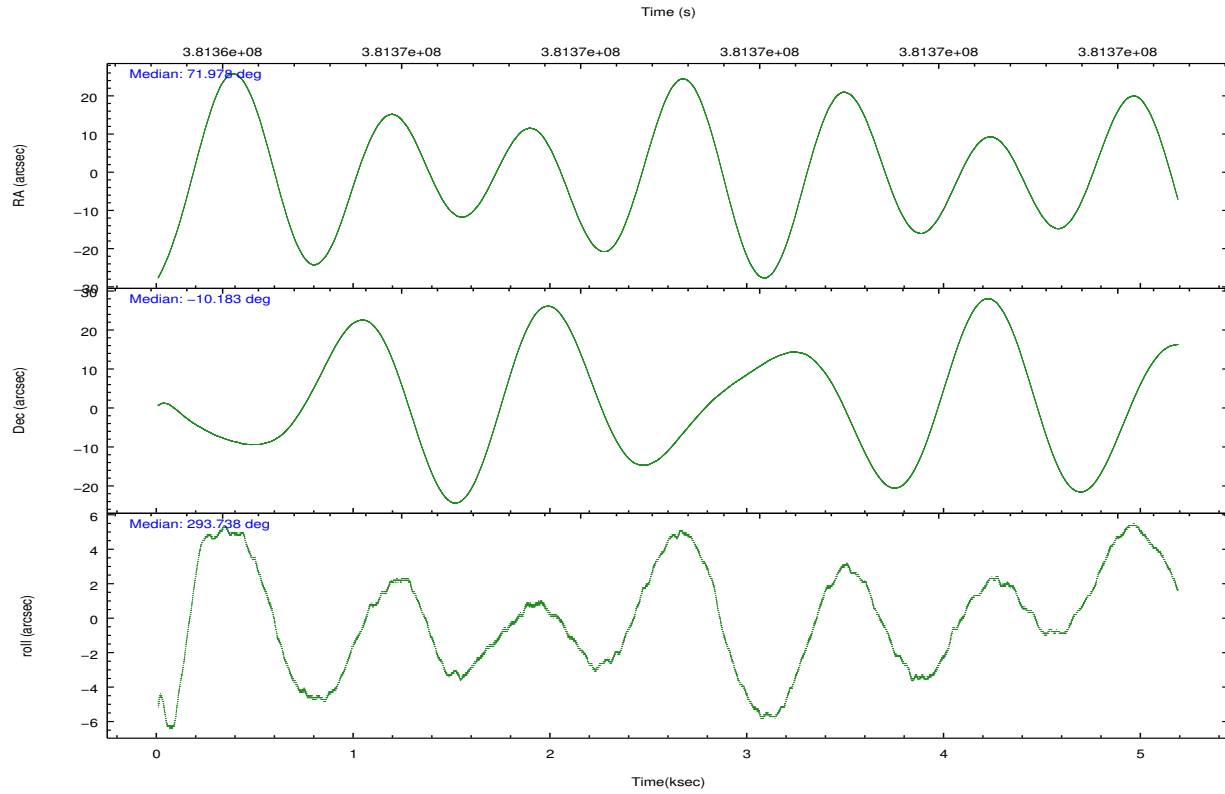
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	168798	732482	172554
rejected events	34323	49178	34893
rejected %	20%	6%	20%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
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			
[deg] Pointing RA	71.953367	71.97797301144524			
[deg] Pointing Dec	-10.167225	-10.18319853352267			
[deg] Pointing Roll	293.674287	293.7459749433426			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	381365088.184000	381364044.17196			
Observation start date	2010-01-31T22:43:42	2010-01-31T22:27:24			
[s] Observation end time (MET)	381370088.184000	381371263.75983			
Observation end date	2010-02-01T00:07:02	2010-02-01T00:27:43			

## 2.3 Aspect



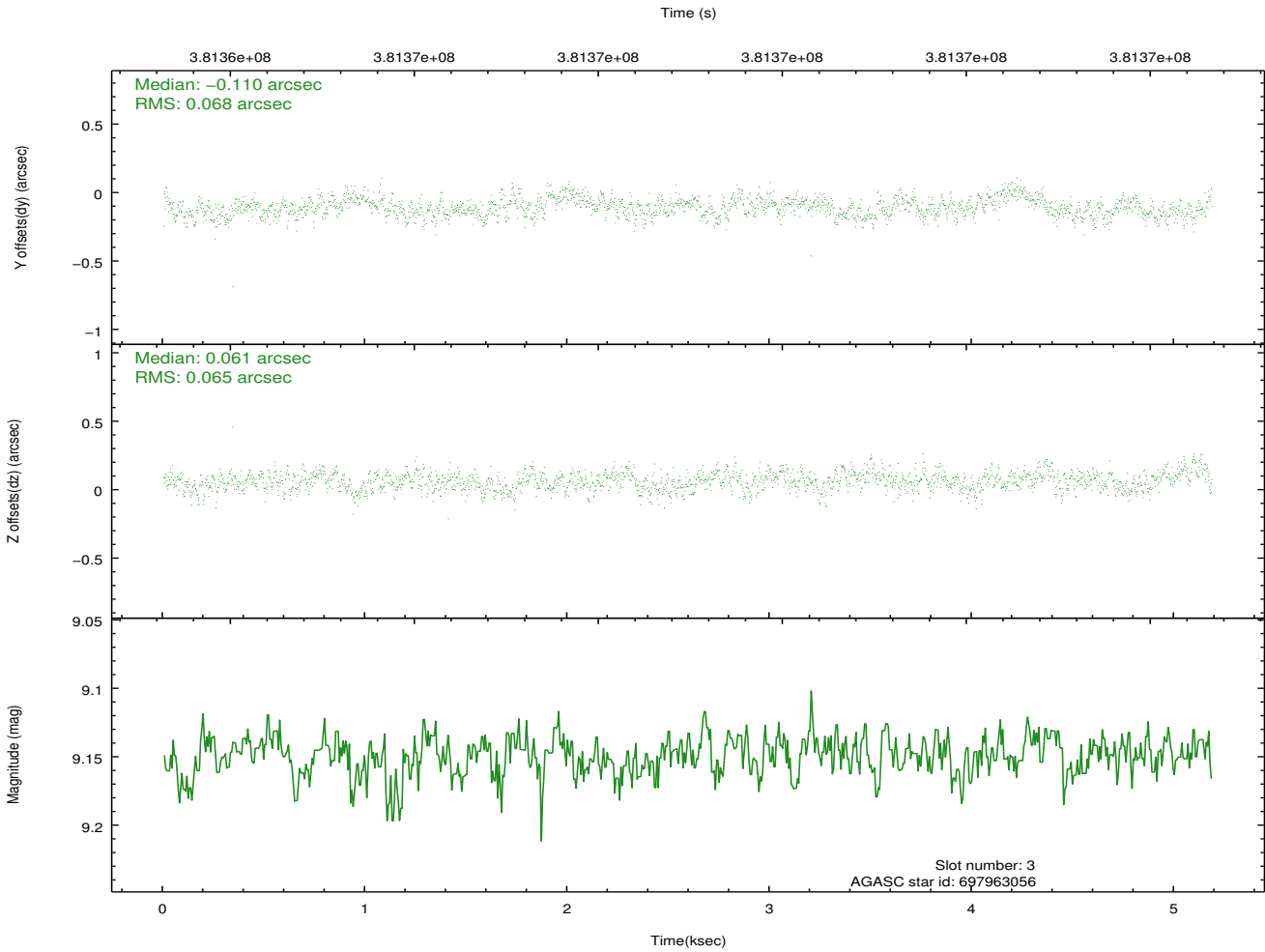
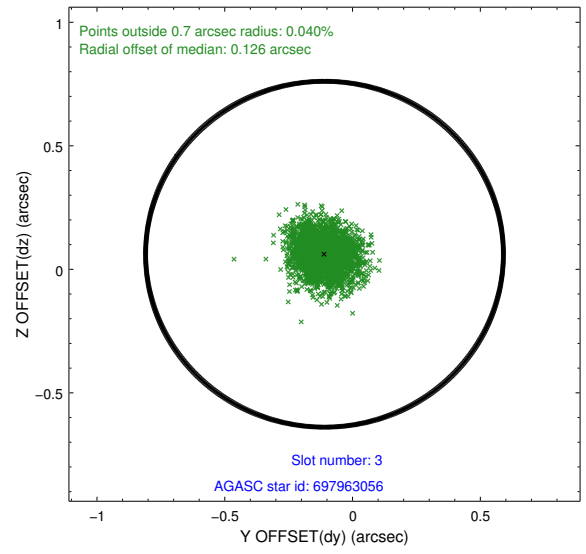
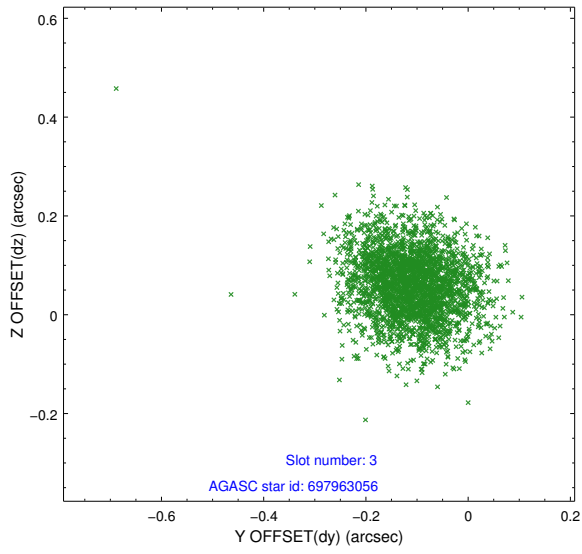


### Slot Statistics

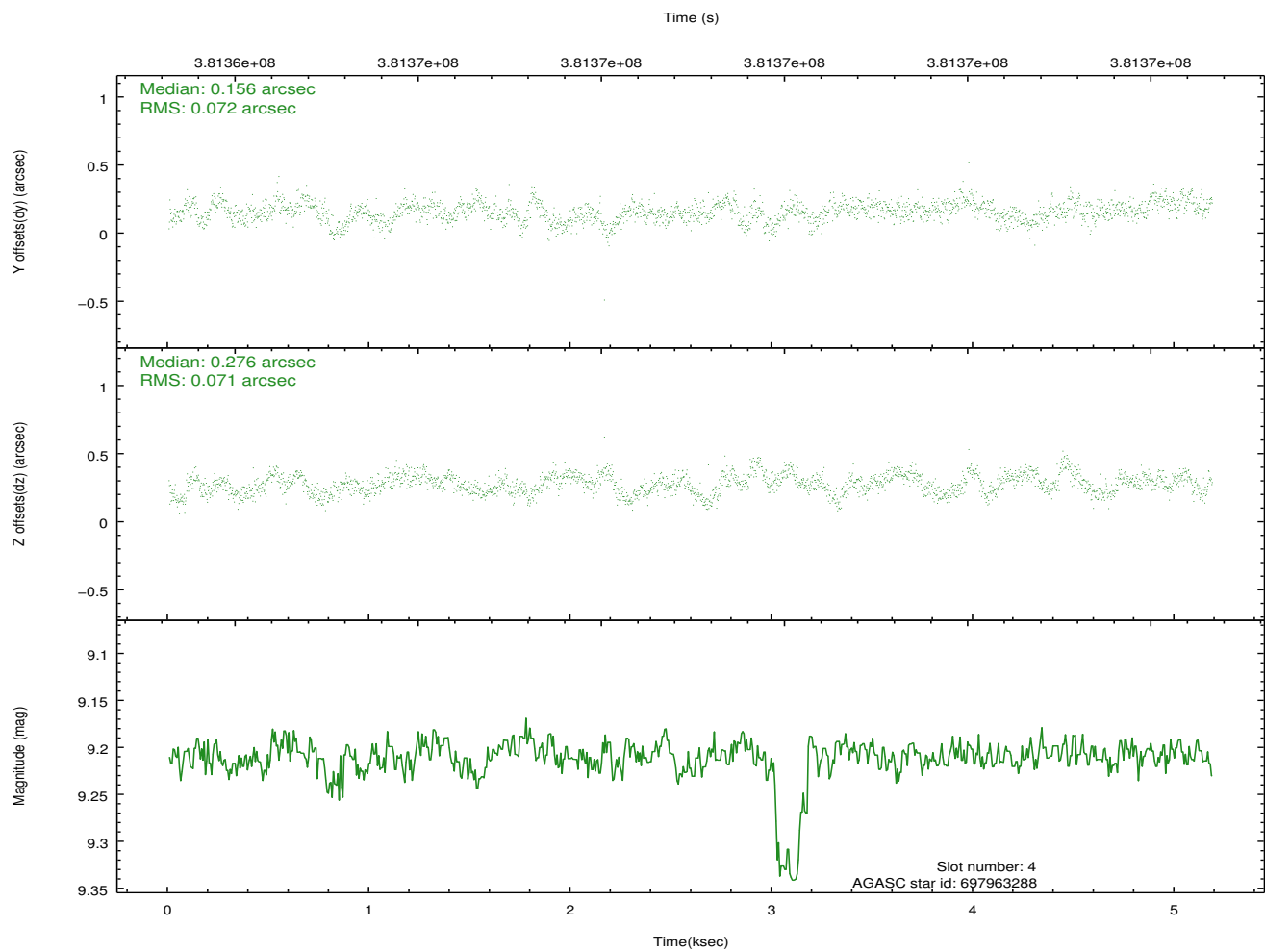
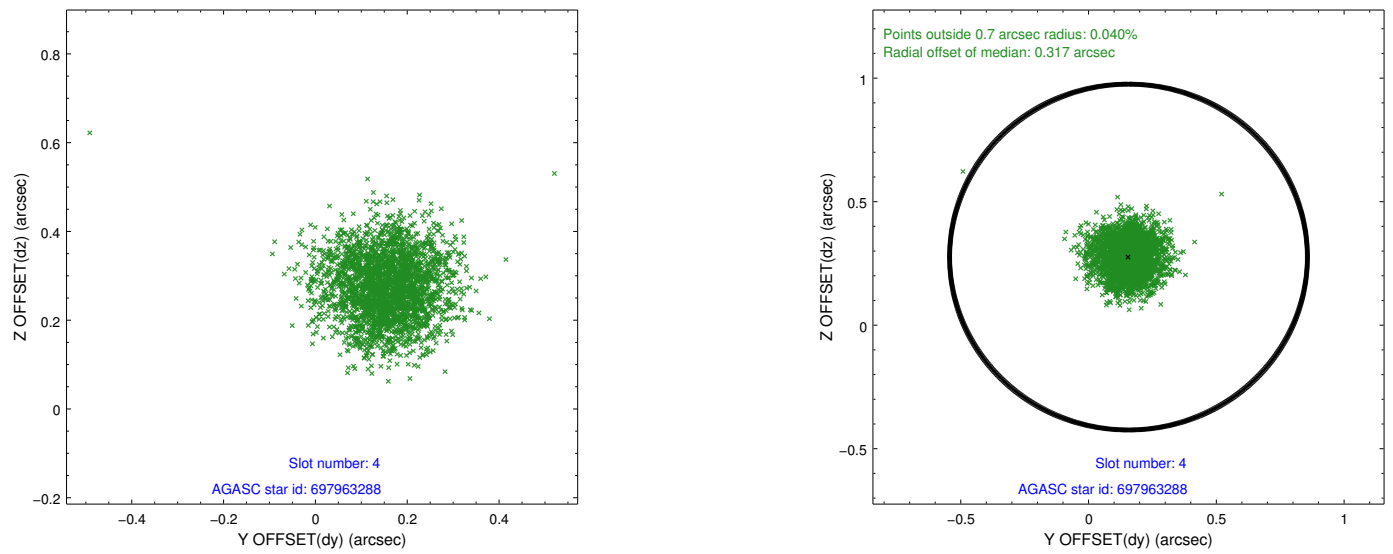
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.03	1264	0.032	-0.182	0.011	0.022	0.000000	0.000000	-1169.36	-465.70
1	FID	HRC-S-3	7.04	1264	0.125	-0.057	0.013	0.040	0.000000	0.000000	-1172.95	563.60
2	FID	HRC-S-4	6.97	1264	0.231	-0.058	0.009	0.029	0.000000	0.000000	1228.14	567.05
3	GUIDE	697963056	9.15	2521	-0.110	0.061	0.100	0.161	72.545470	-10.265861	1168.38	1777.63
4	GUIDE	697963288	9.21	2518	0.156	0.276	0.108	0.171	72.359717	-10.592578	1980.67	702.51
5	GUIDE	697970576	8.30	2526	-0.099	-0.053	0.079	0.127	71.548767	-10.222268	-392.79	-1393.02
6	GUIDE	697973824	7.98	2527	0.012	0.014	0.068	0.108	72.012098	-10.590000	1476.92	-421.82
7	GUIDE	697971944	9.19	2525	0.038	-0.295	0.109	0.181	71.714219	-10.975346	2325.78	-1943.10

## 2.4 Star Slots

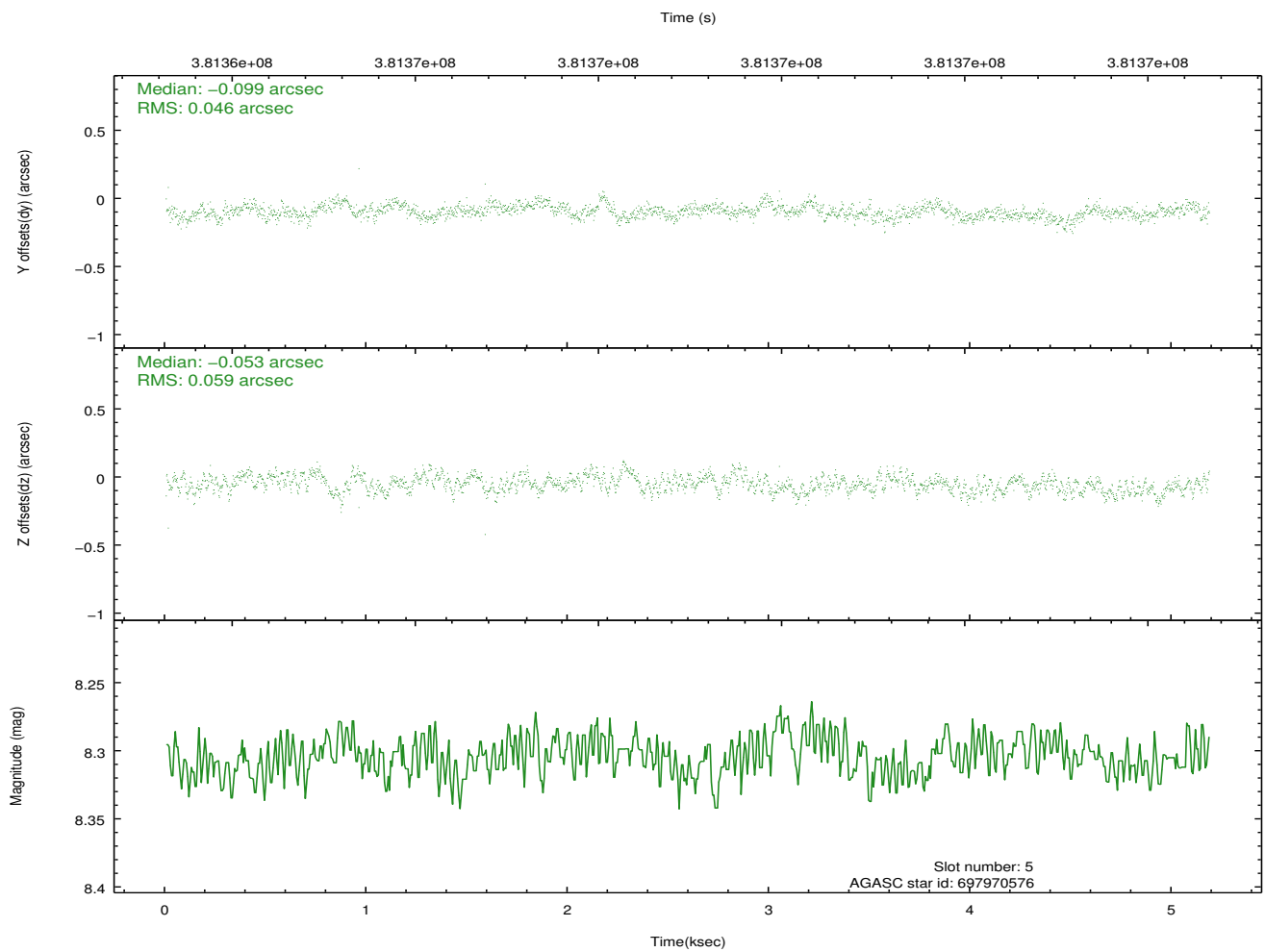
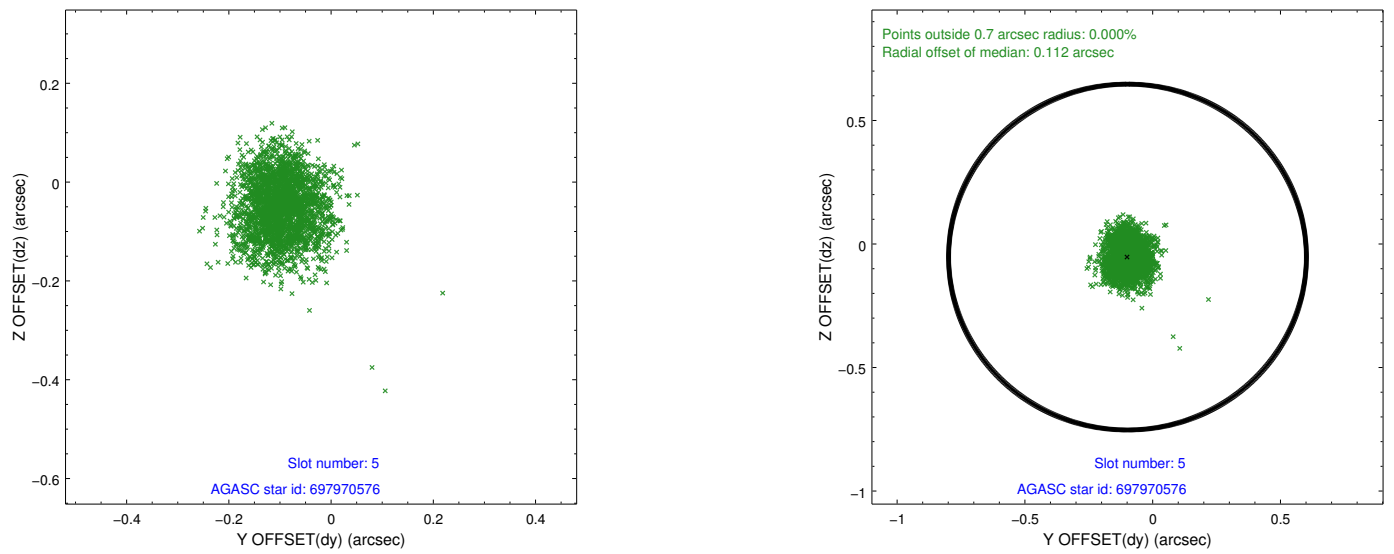
### 2.4.1 Slot 3



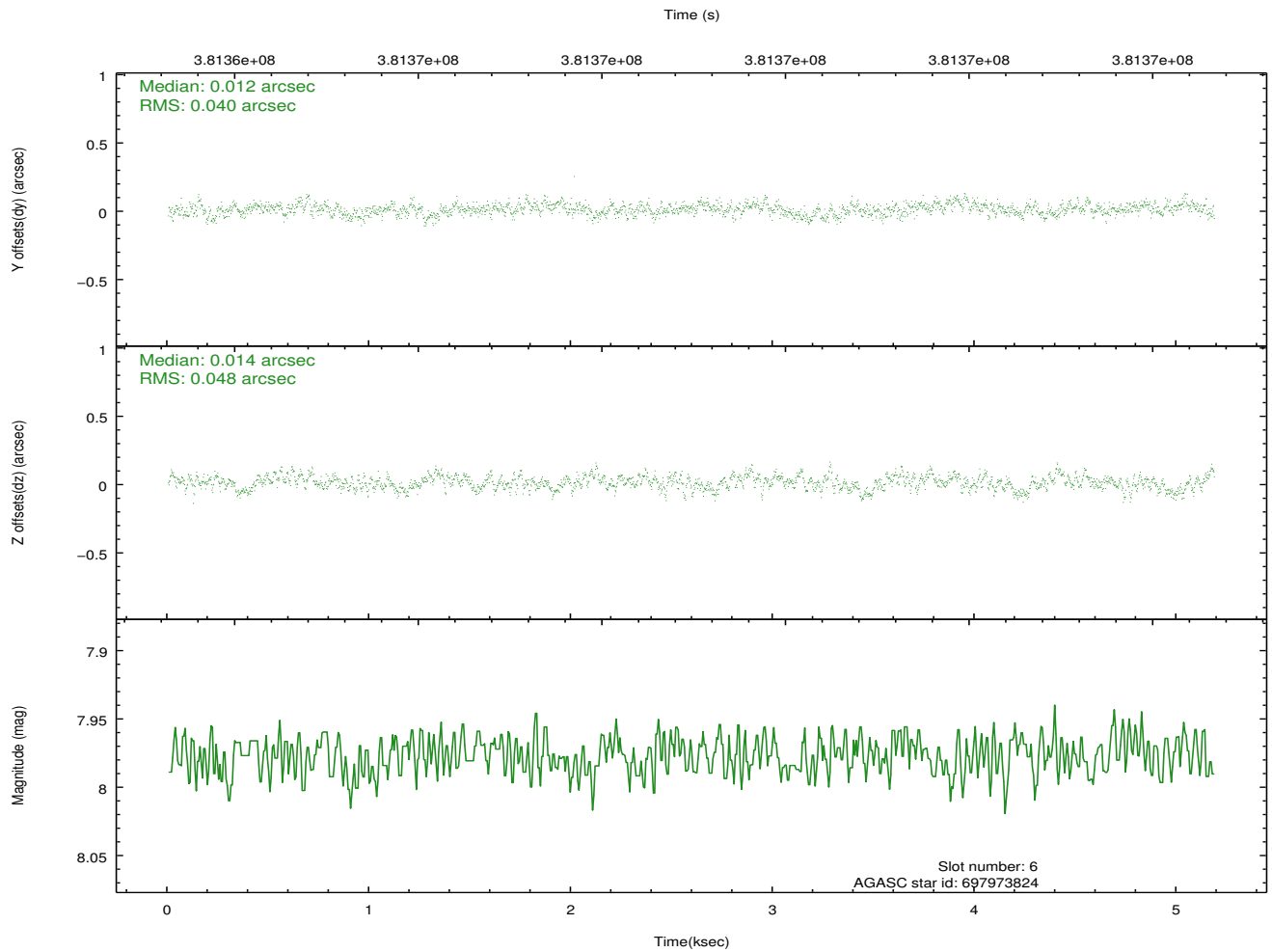
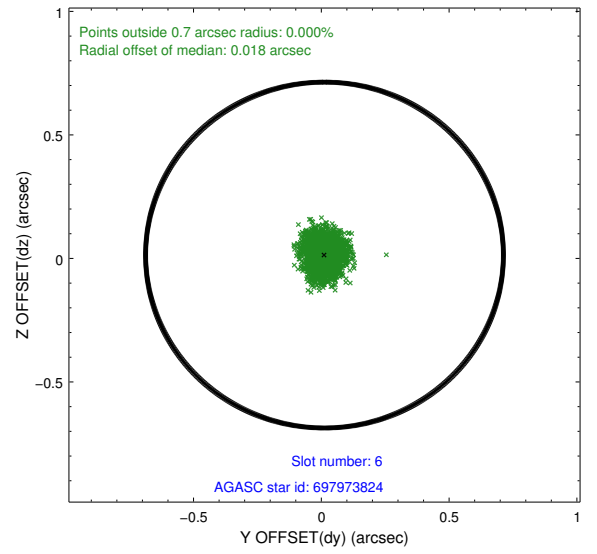
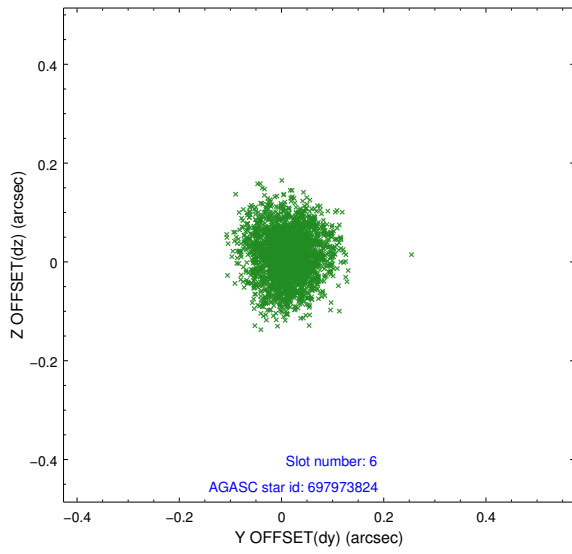
## 2.4.2 Slot 4



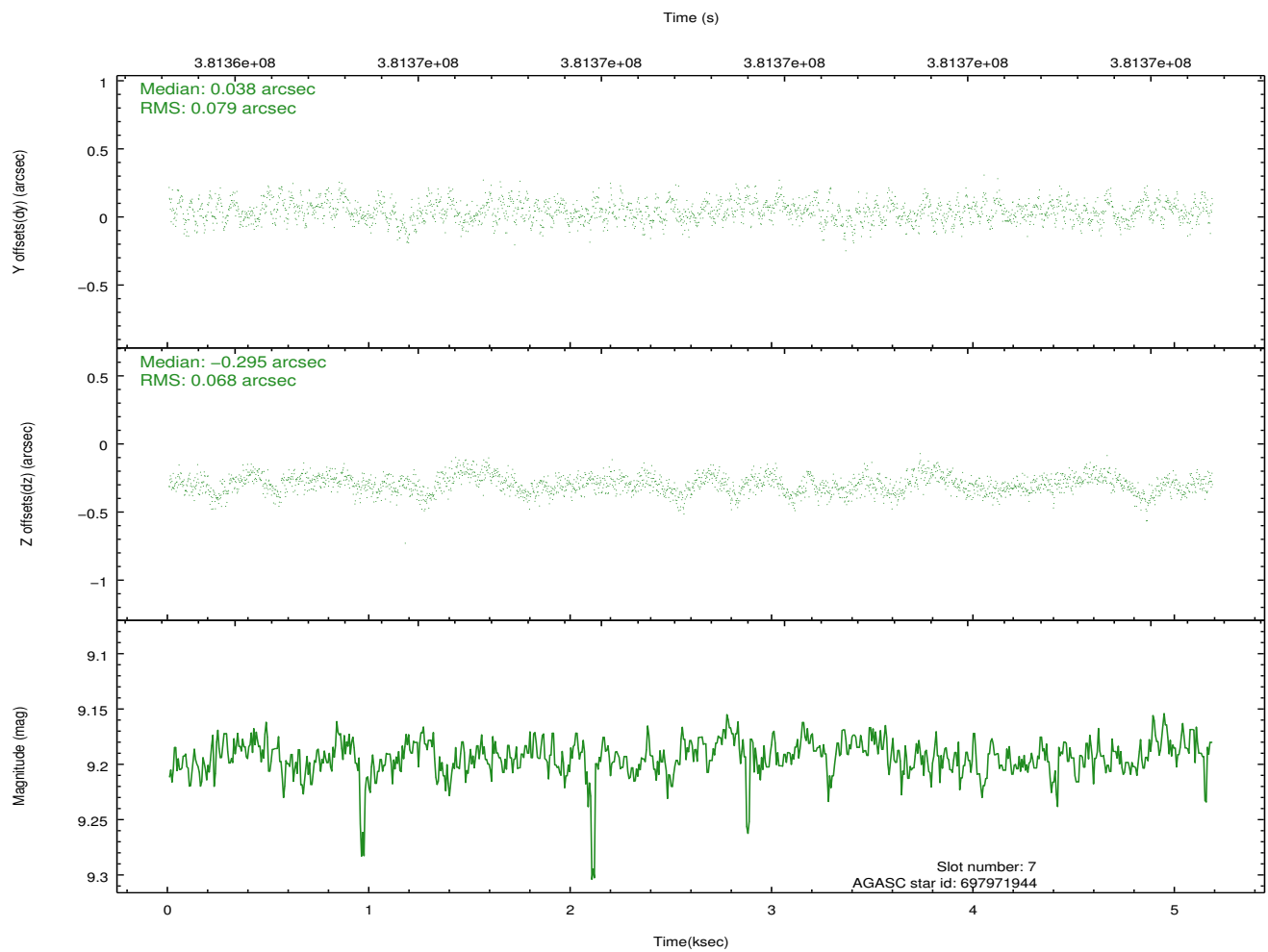
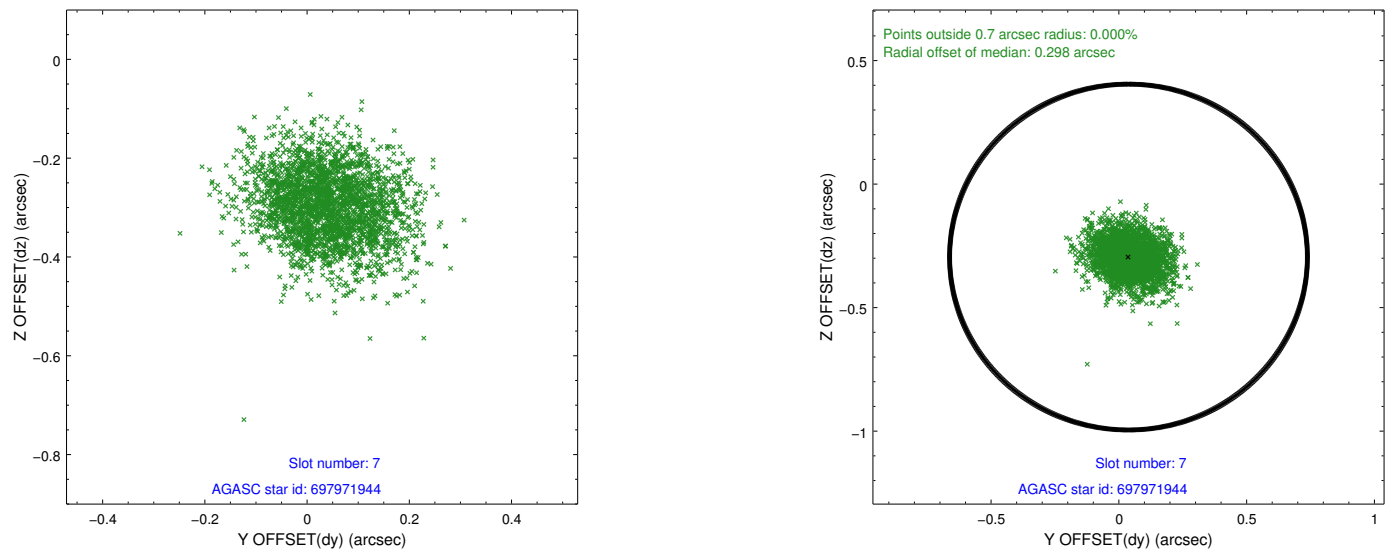
### 2.4.3 Slot 5



### 2.4.4 Slot 6

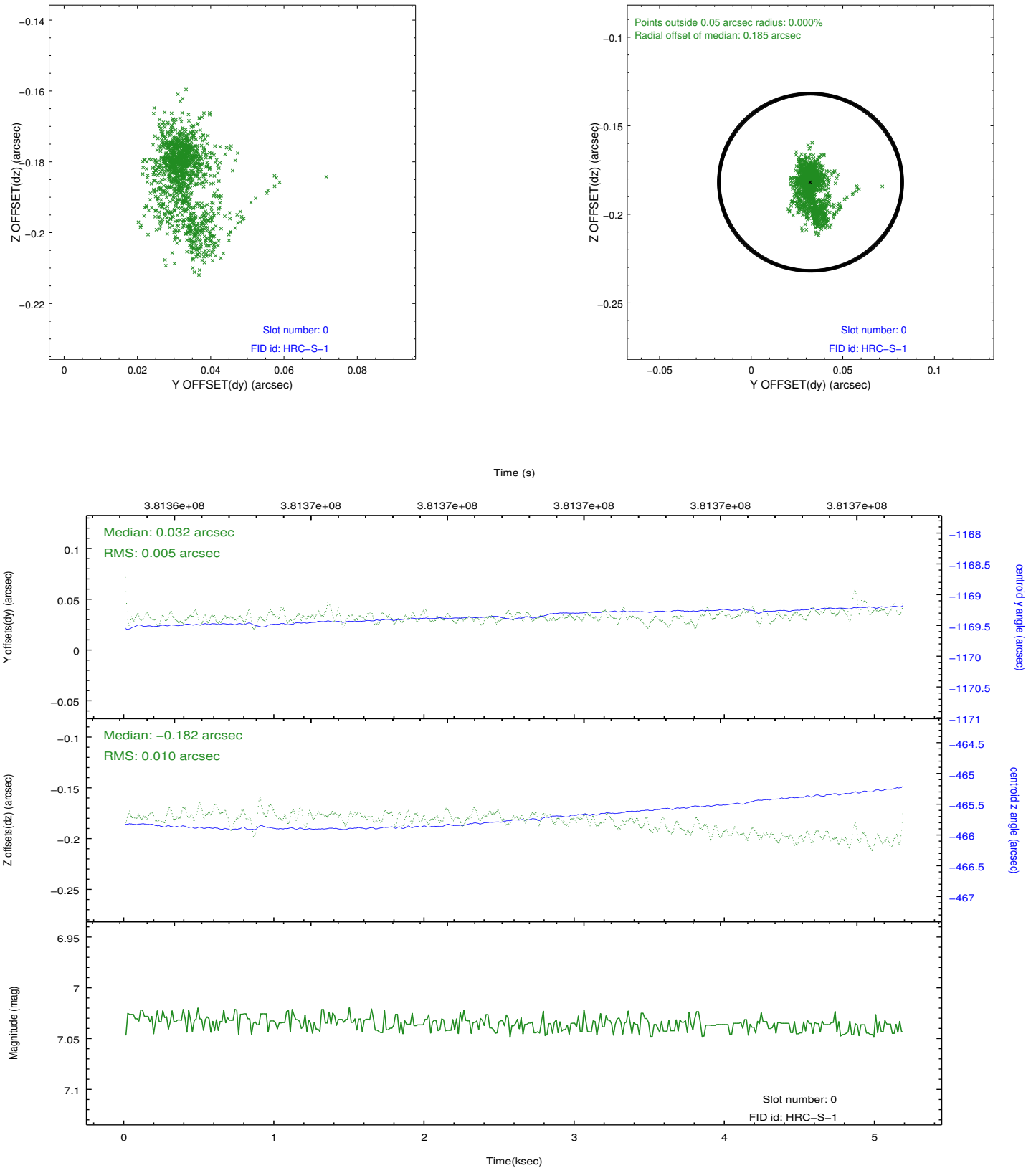


## 2.4.5 Slot 7

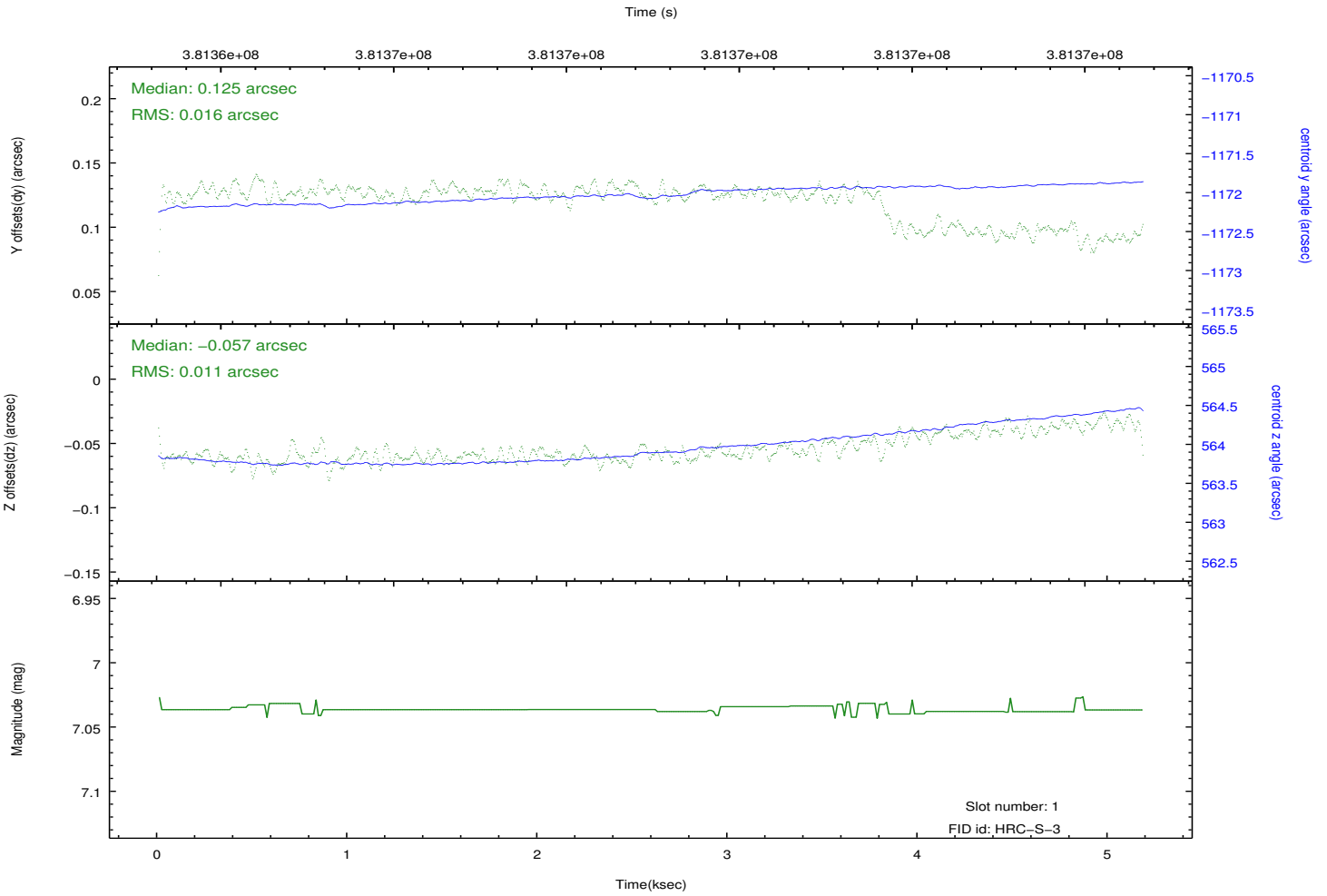
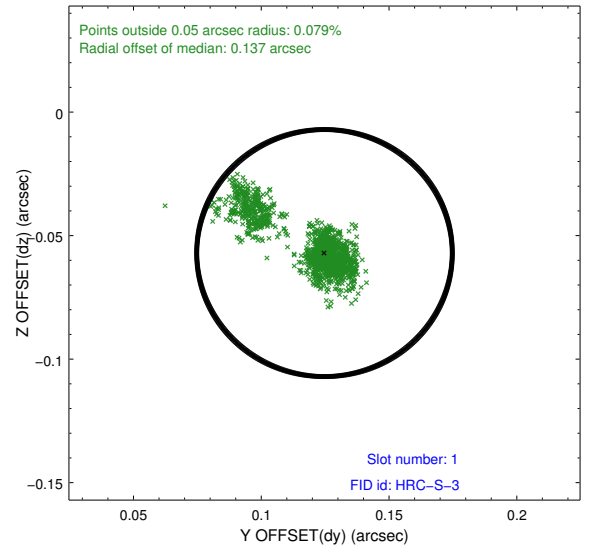
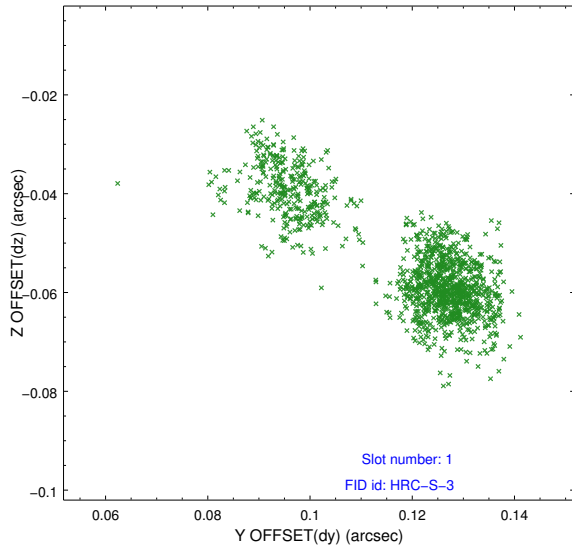


## 2.5 FID Slots

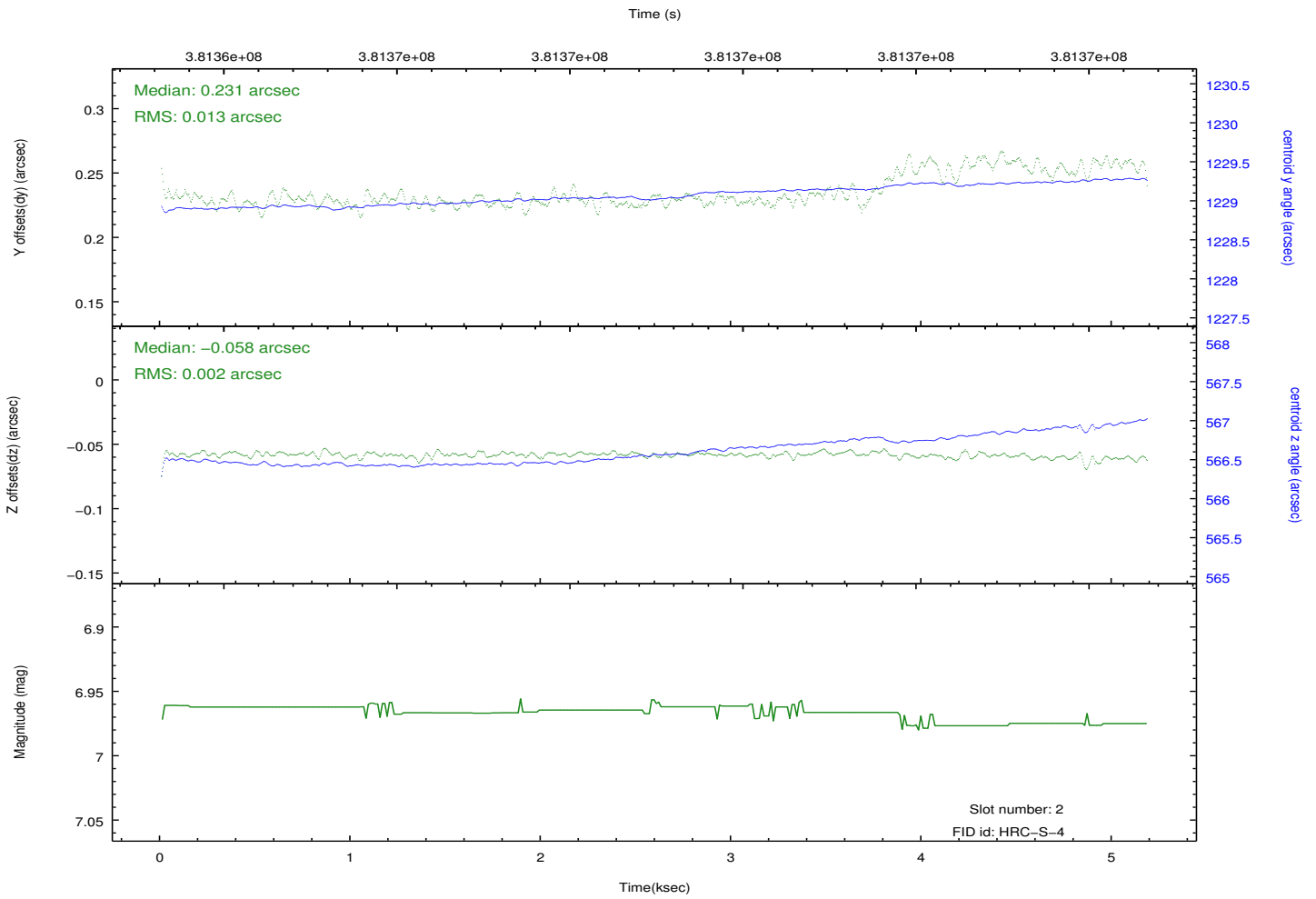
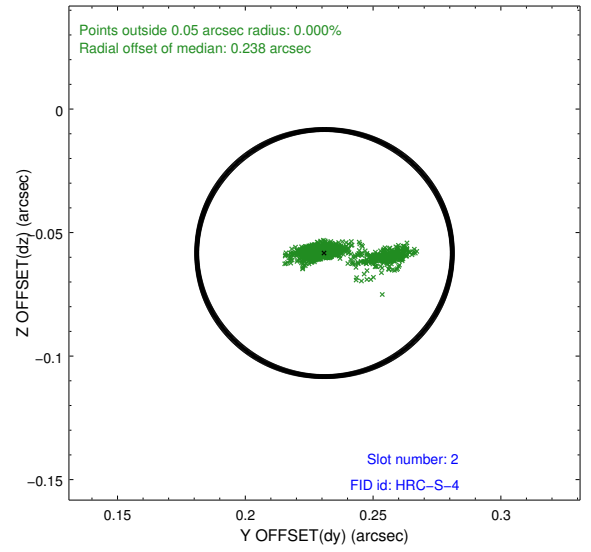
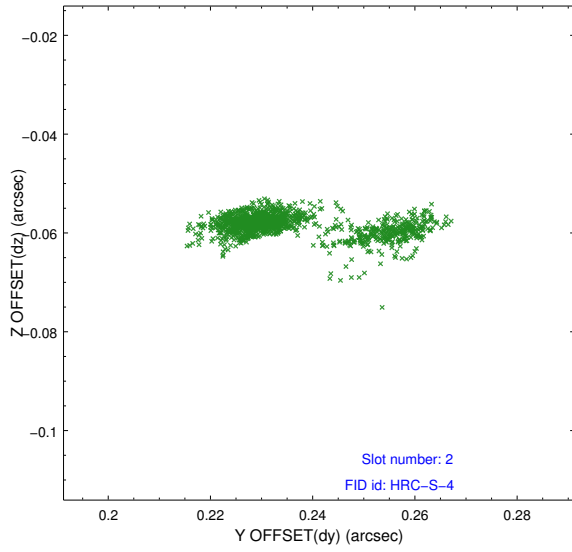
### 2.5.1 Slot 0



## 2.5.2 Slot 1

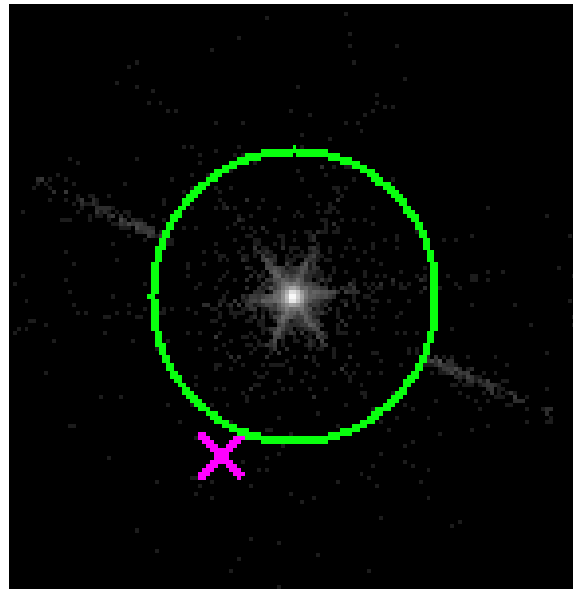


### 2.5.3 Slot 2

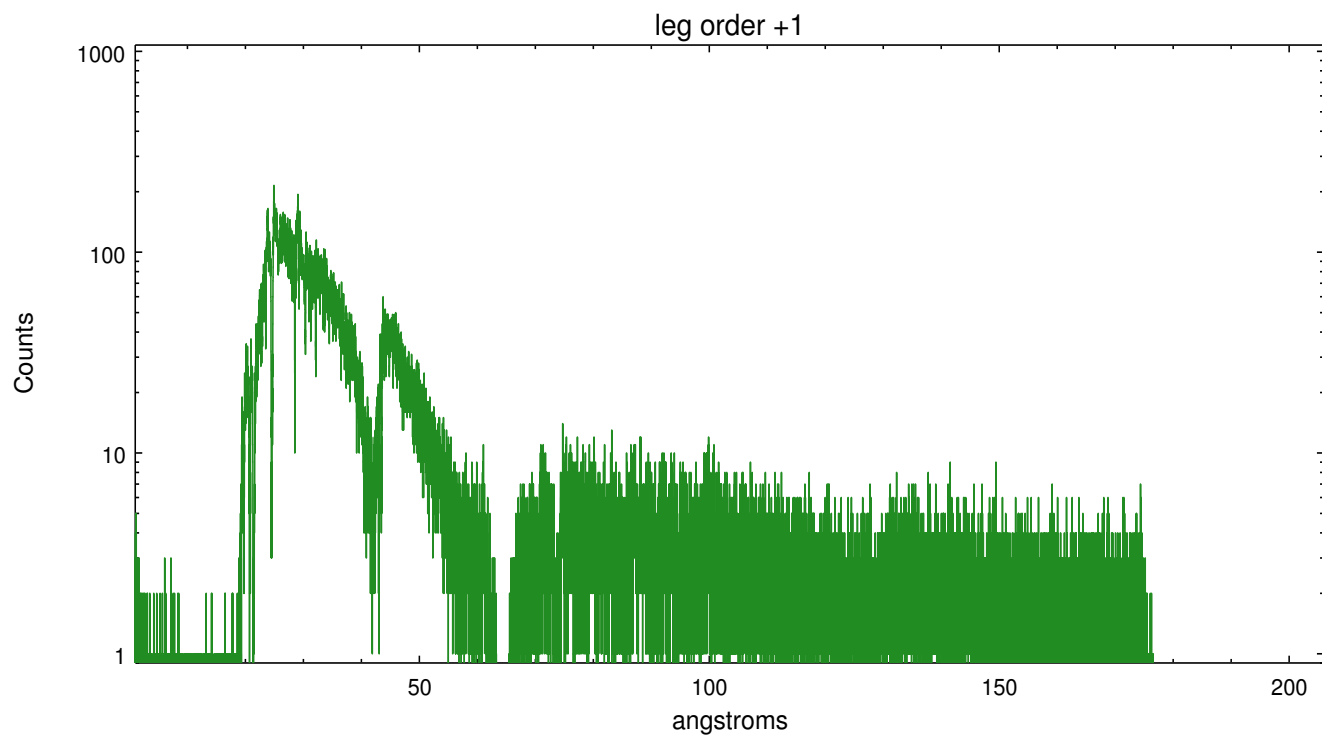
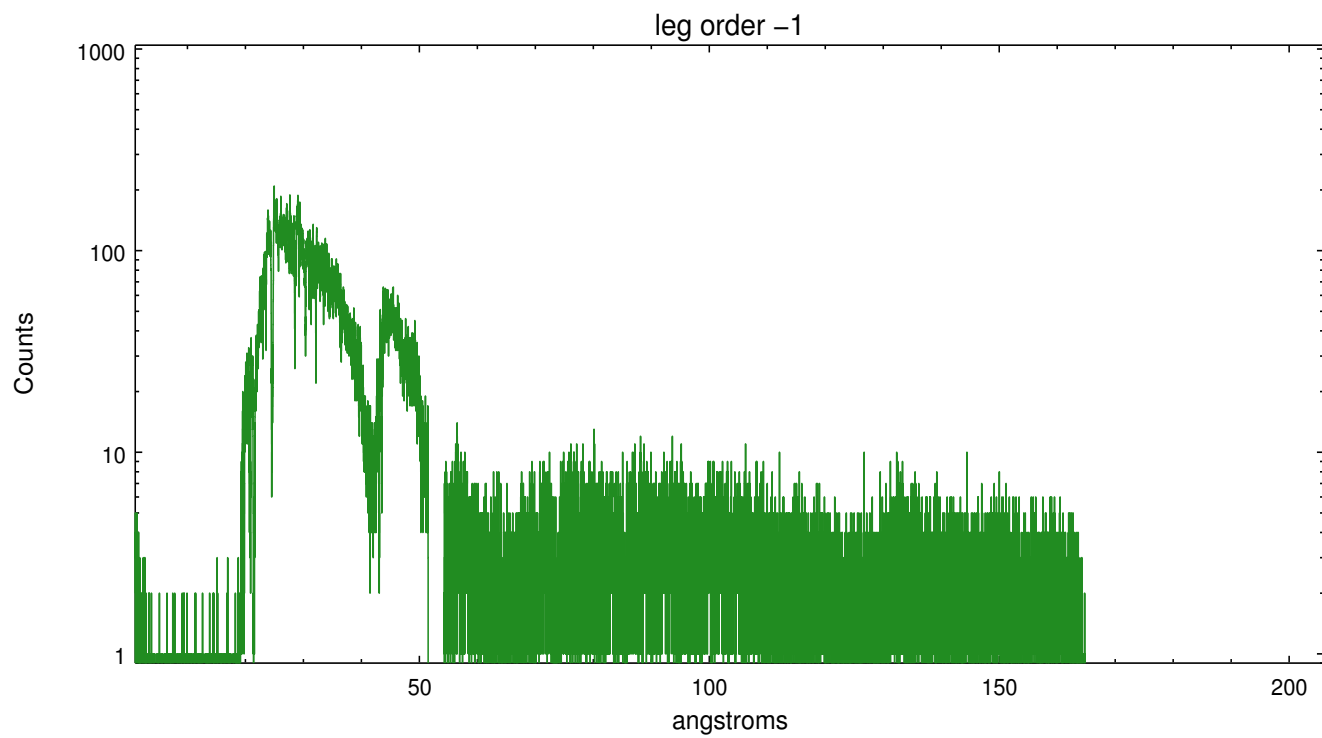


### 3 Gratings

#### 3.1 LETG Arm



LETG Zero Order



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.07.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1813752625585

## A.2 Comments

HRC livetime is significantly less than the ontime. Telemetry was saturated due to the brightness of the source and not all events were telemetered.