

# V&V Reference Report

## L2 ASCDS Version : 10.3.1

Observation 17567 - L2 Version 1  
Chandra X-Ray Center

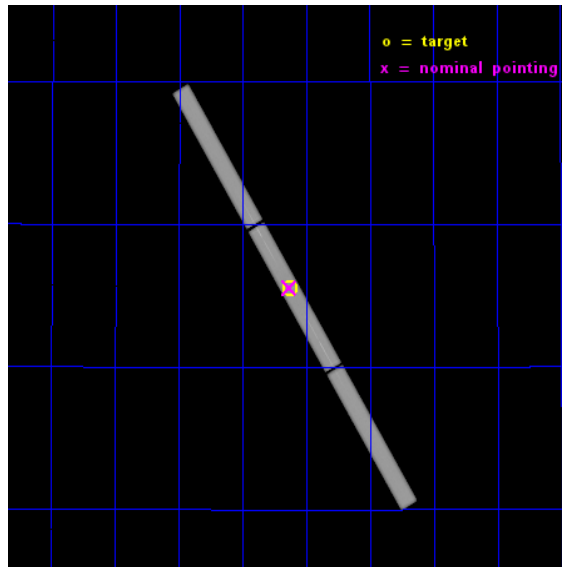
L2 Processing Date : Dec 12 2014

## 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

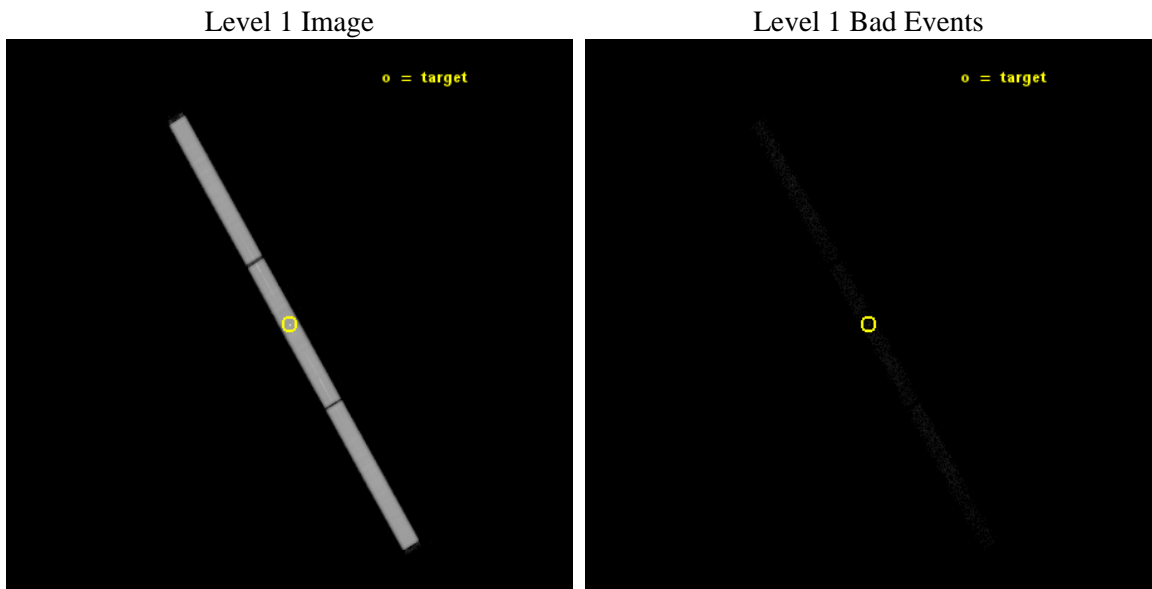
seq_num	703152	Sequence number
obs_id	17567	Observation id
title	A High-resolution Spectrum of an Unprecedented Tidal Disruption Event	Proposal title
observer	Dr. Jon Miller	Principal investigator
object	ASASSN-14li	Source name
ra_targ	192.063333	Observer's specified target RA [deg]
dec_targ	17.773944	Observer's specified target Dec [deg]
ra_nom	192.06598709882	Nominal RA [deg]
dec_nom	17.778196505388	Nominal Dec [deg]
roll_nom	59.566526996531	Nominal Roll [deg]
revision	1	Processing version of data
ontime	44793.783748269	[s]
livetime	44457.27125697	Ontime multiplied by DTCOR
l2events	3044836	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	45000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	44793.783748269	[s]
caldbver	4.6.4	&#160	l1events	3805115	Number of level 1 events
date	2014-12-12T07:09:16	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32832.48, 32648.63)	src1a sky pixel position

### 2.1.3 Events

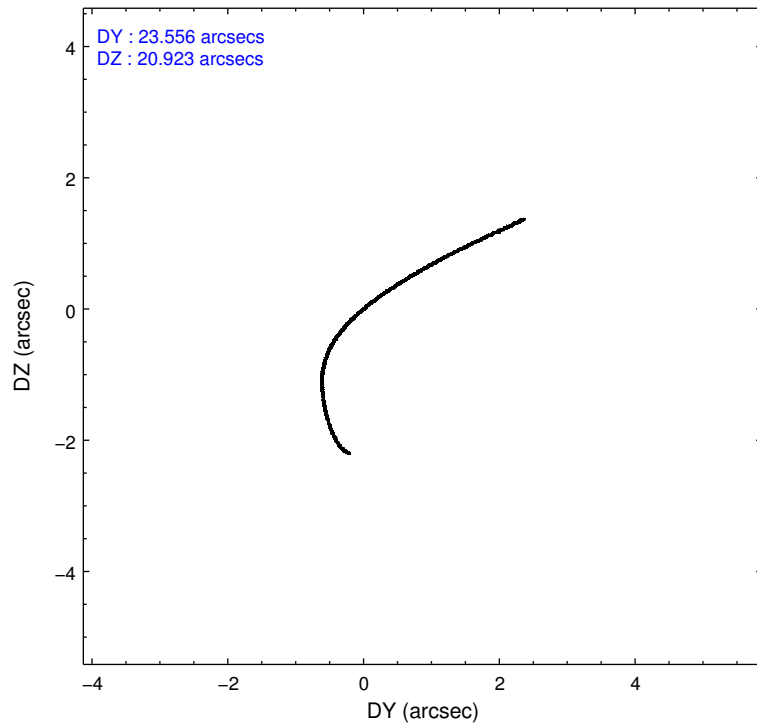
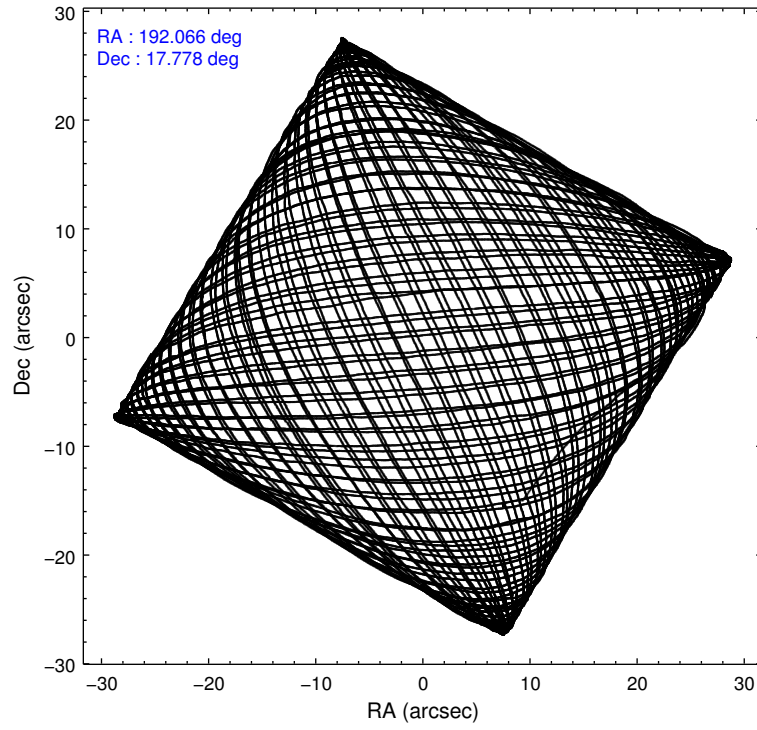
#### Level 1 Events

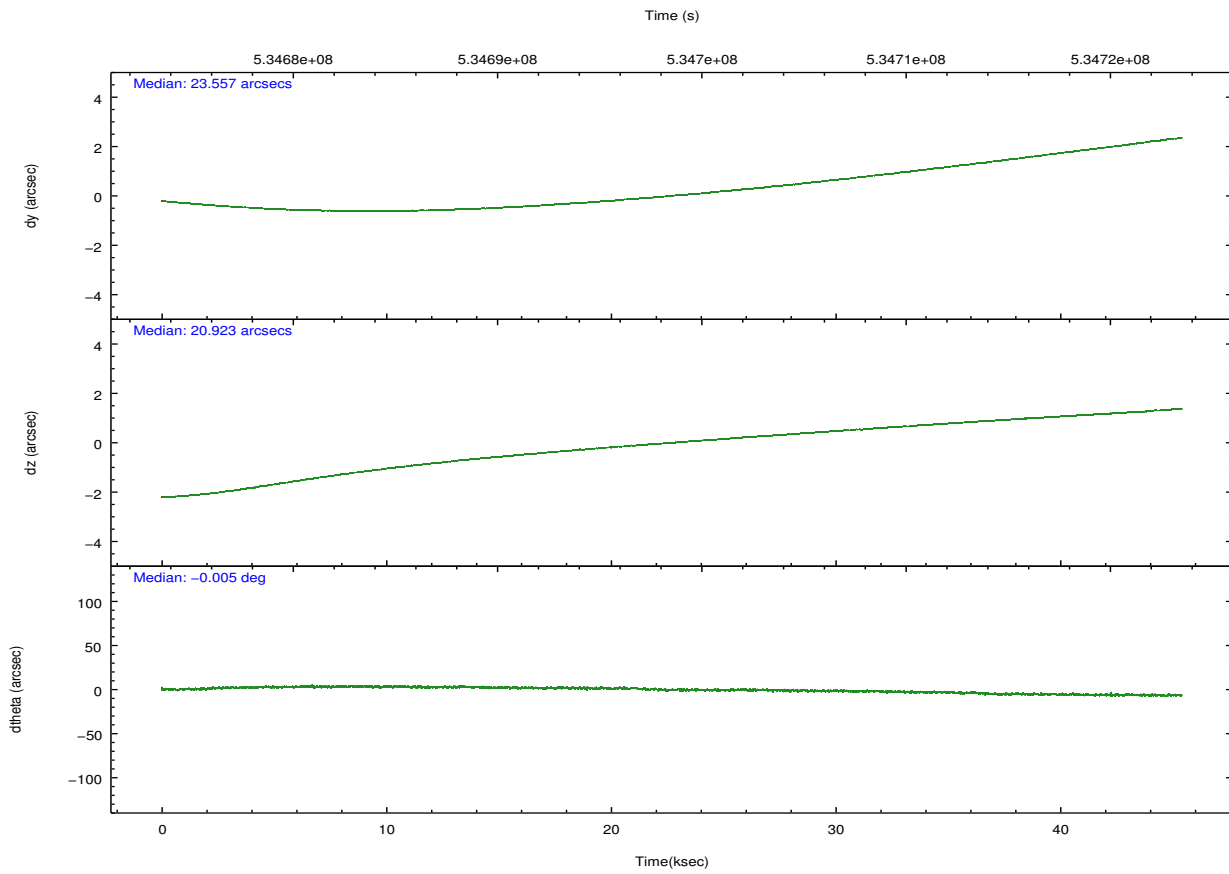
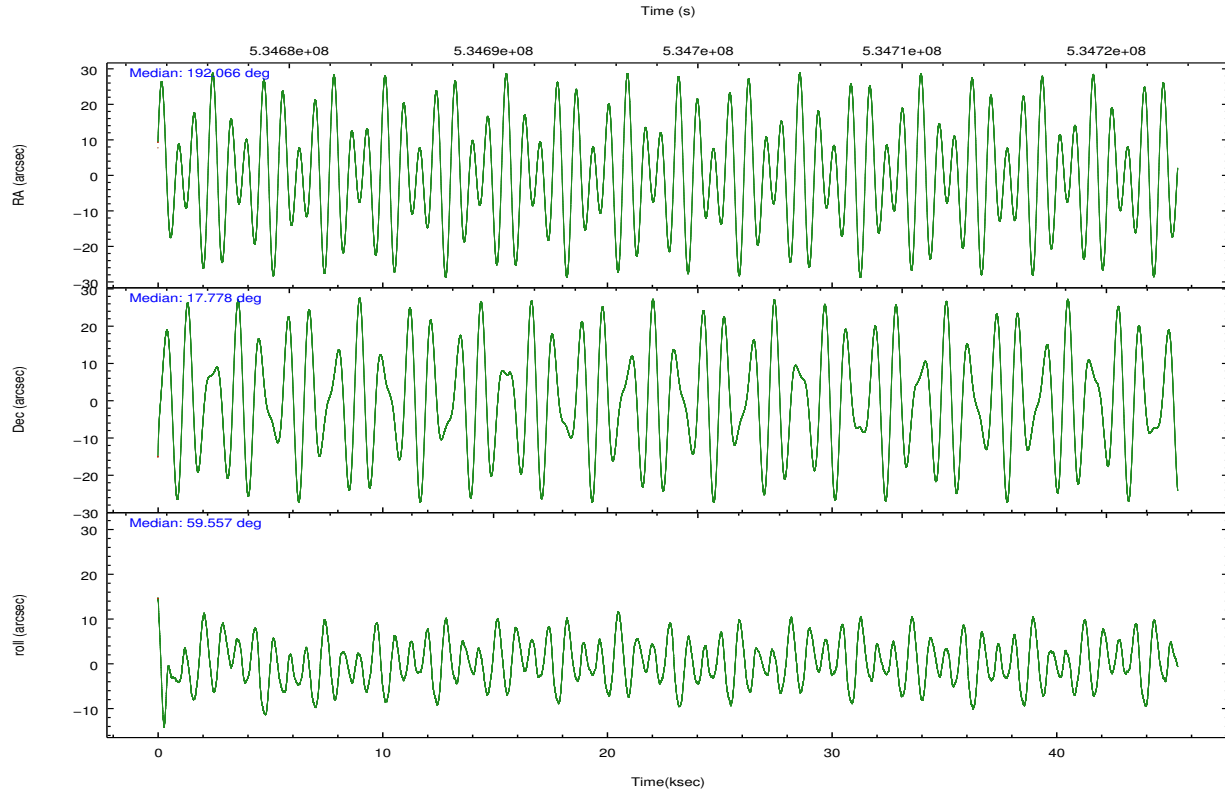
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1285386	1274817	1244912
rejected events	2532	2670	2591
rejected %	0%	0%	0%

## 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	192.067206	192.0659870988228			
[deg] Pointing Dec	17.749332	17.77819650538776			
[deg] Pointing Roll	59.498814	59.56652699653119			
[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)	534676223.184000	534674786.97758			
Observation start date	2014-12-11T09:09:16	2014-12-11T08:46:26			
[s] Observation end time (MET)	534721223.184000	534722004.11772			
Observation end date	2014-12-11T21:39:16	2014-12-11T21:53:24			

## 2.3 Aspect



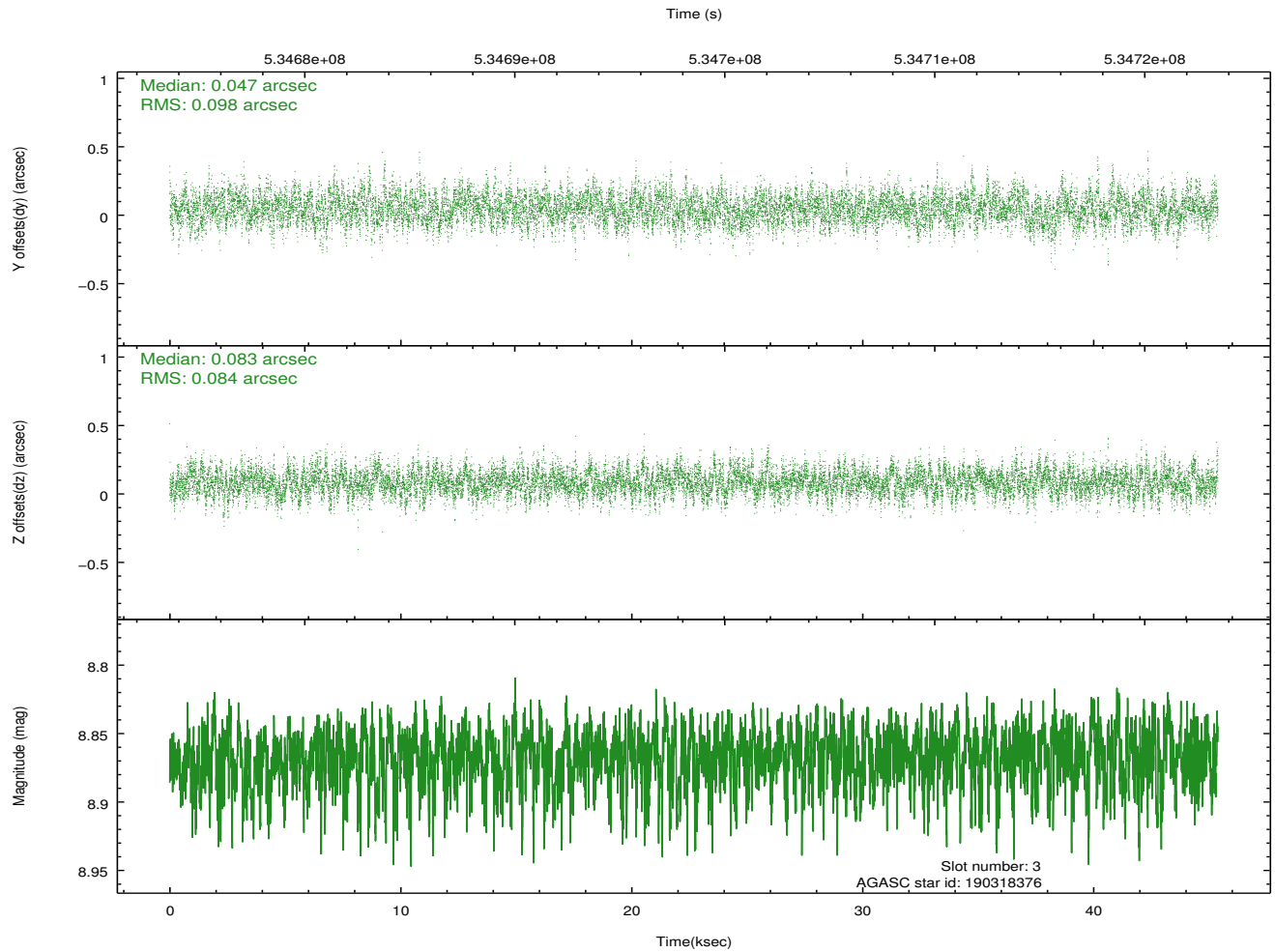
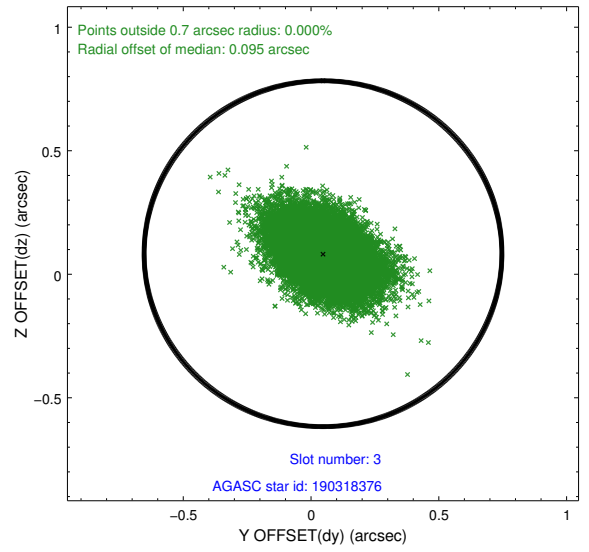
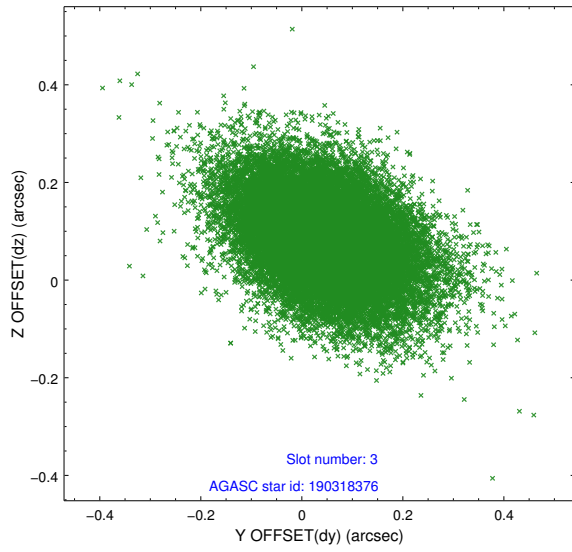


### Slot Statistics

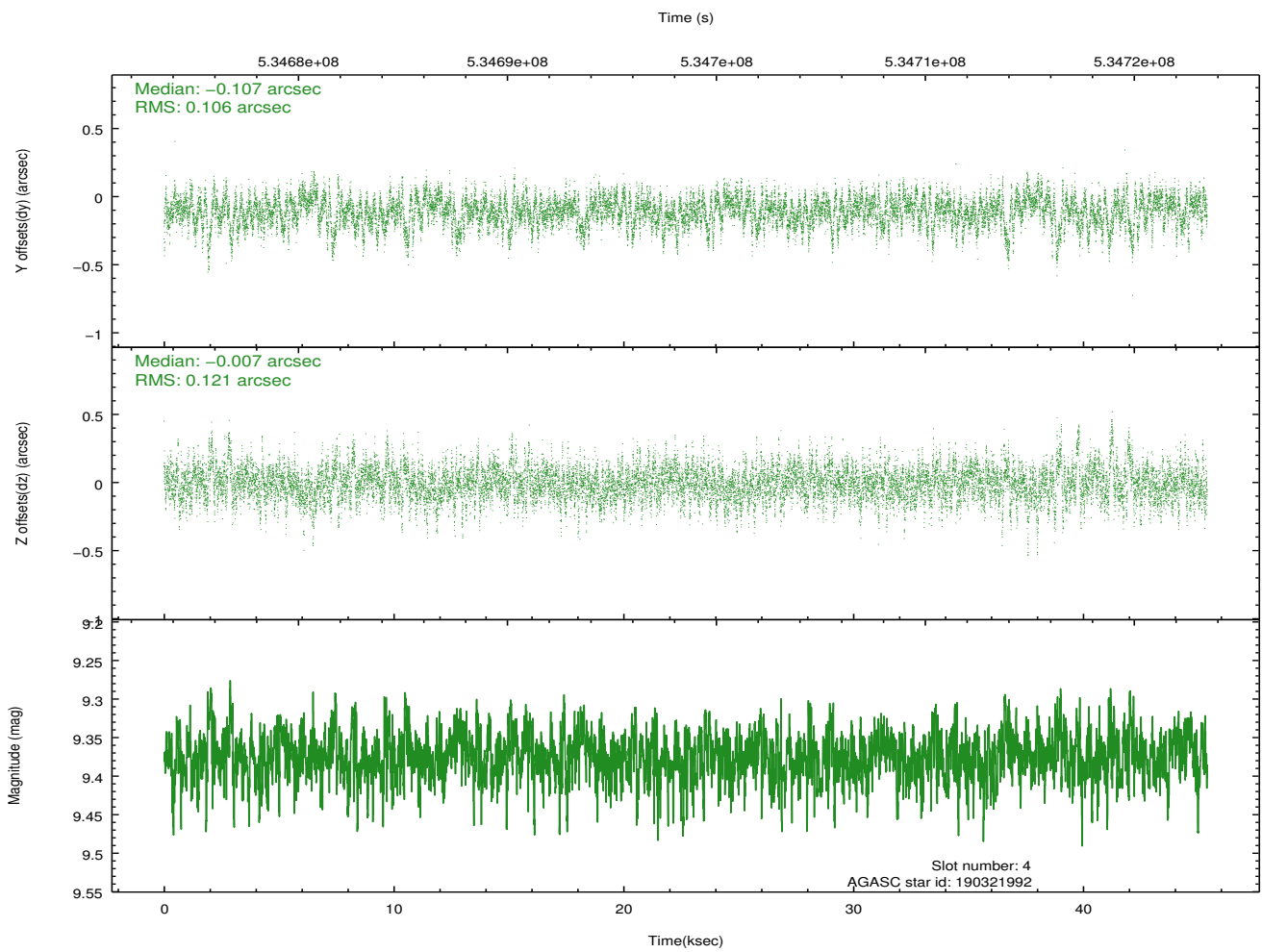
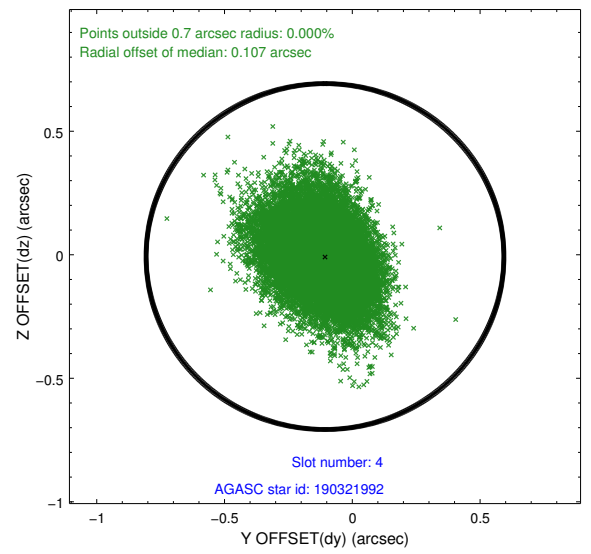
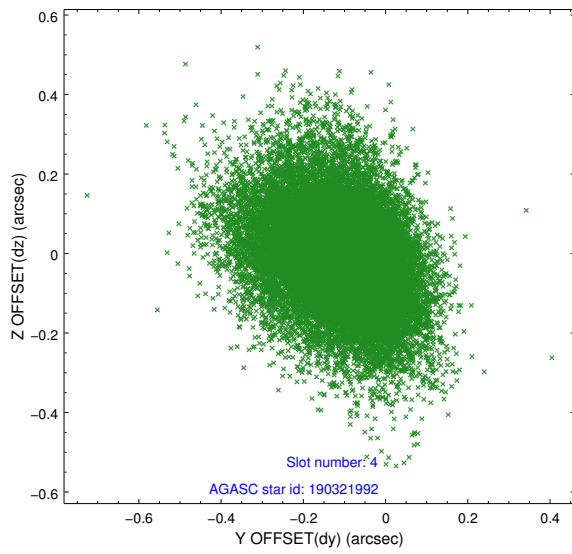
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.04	11070	0.016	-0.172	0.046	0.078	0.000000	0.000000	-1178.58	-469.87
1	FID		HRC-S-2	7.02	11072	0.299	-0.123	0.017	0.057	0.000000	0.000000	1221.28	-462.43
2	FID		HRC-S-3	7.04	11072	0.075	-0.011	0.049	0.063	0.000000	0.000000	-1181.16	559.77
3	GUIDE	used	190318376	8.87	22133	0.047	0.083	0.135	0.225	192.967225	17.915241	2086.53	-2348.79
4	GUIDE	used	190321992	9.37	22126	-0.107	-0.007	0.166	0.289	192.558931	17.650526	550.39	-1631.62
5	GUIDE	used	190322864	8.19	22132	-0.196	-0.199	0.107	0.171	192.118474	17.579756	-436.53	-461.49
6	GUIDE	used	190323712	9.21	22117	0.166	-0.056	0.163	0.270	192.191806	17.550786	-398.71	-731.96
7	GUIDE	used	189924664	8.40	22133	0.098	0.169	0.103	0.165	192.162029	16.938116	-2349.88	-1763.62

## 2.4 Star Slots

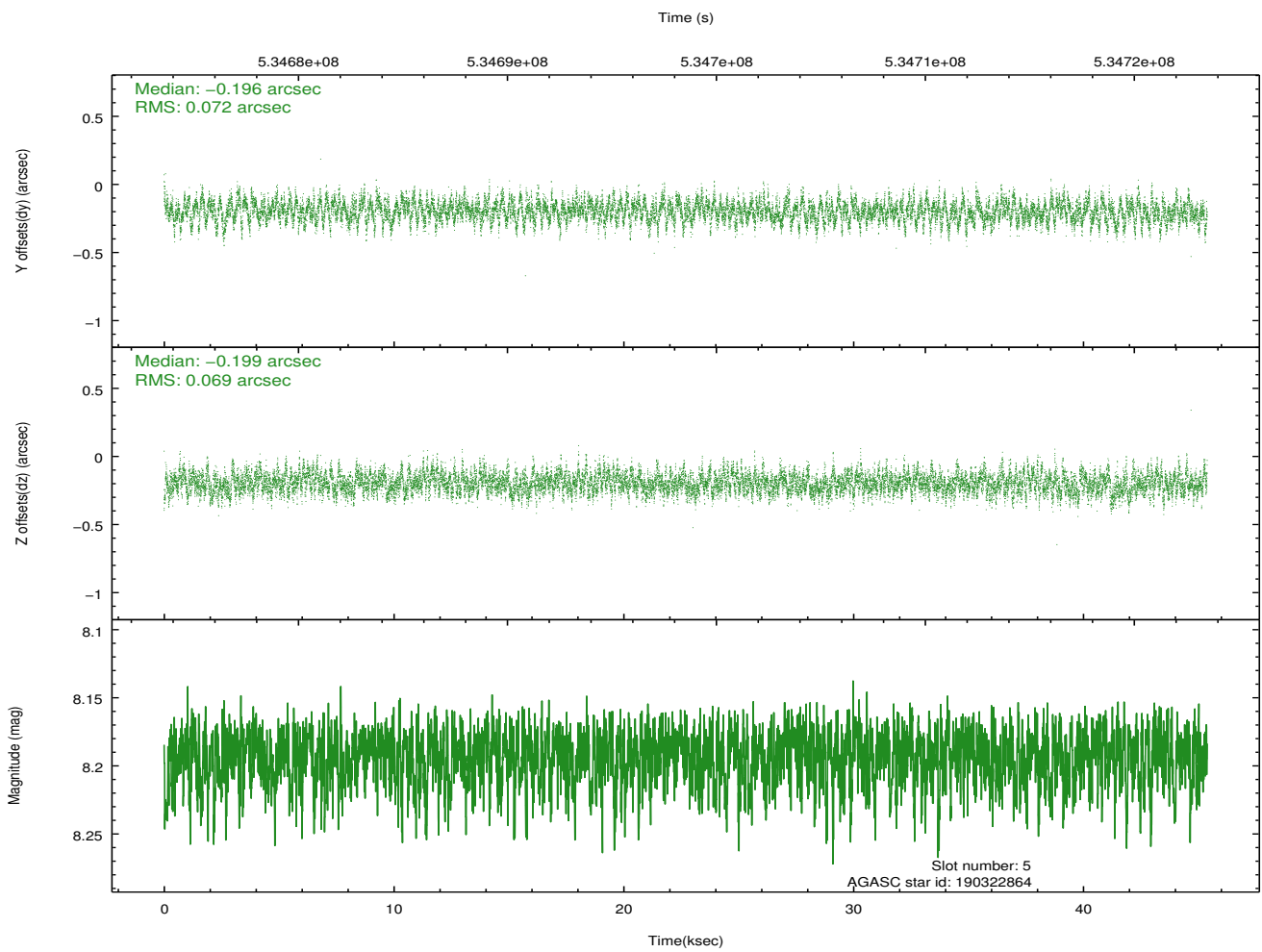
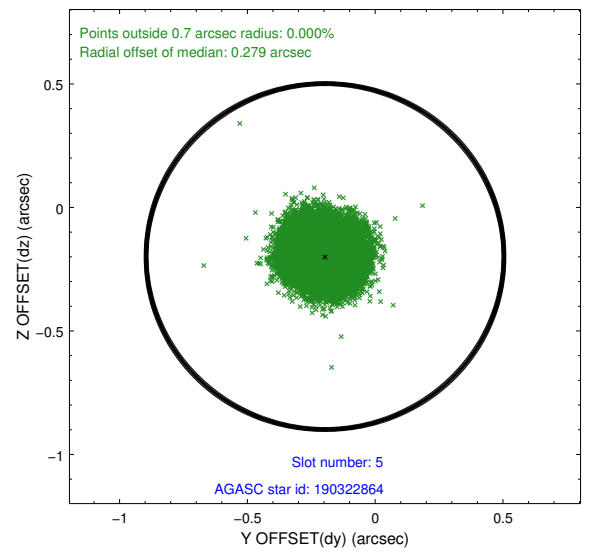
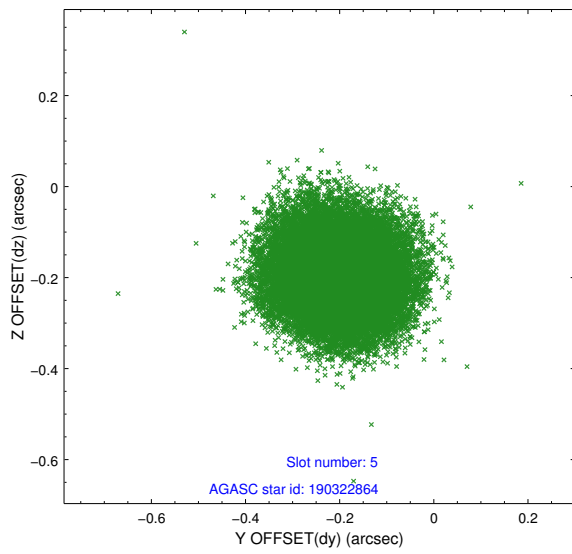
### 2.4.1 Slot 3



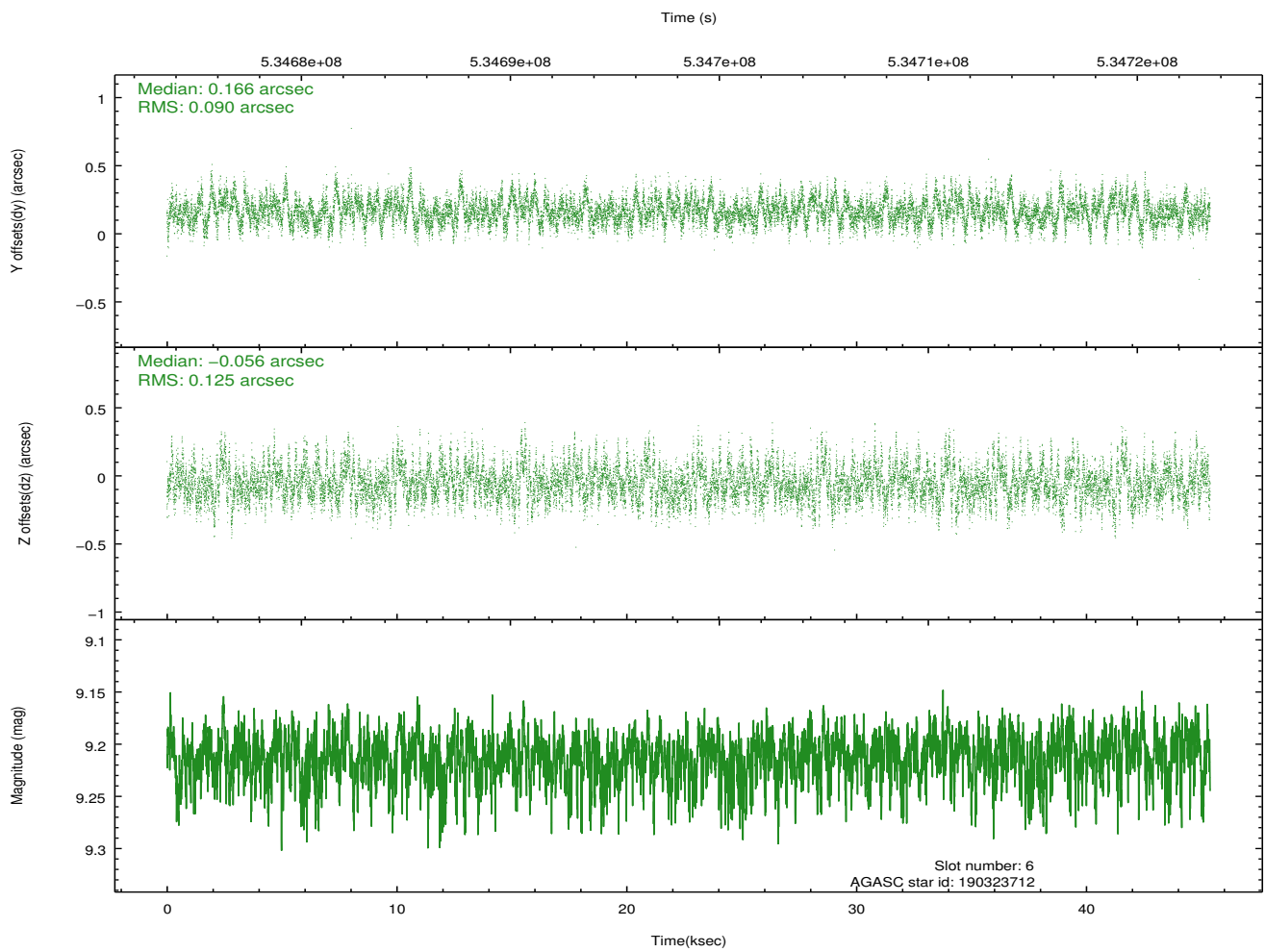
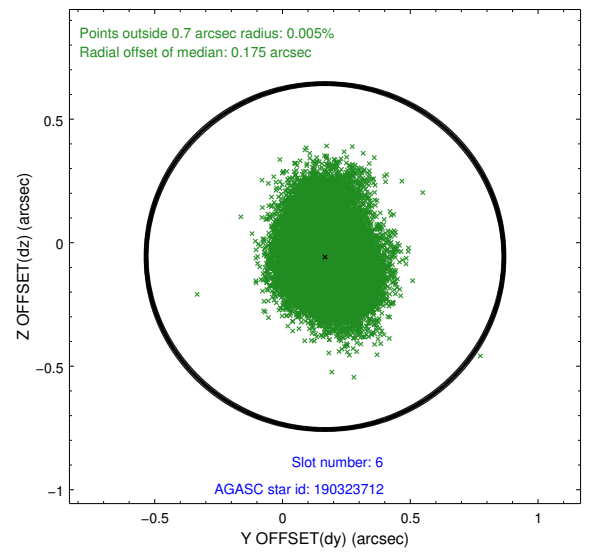
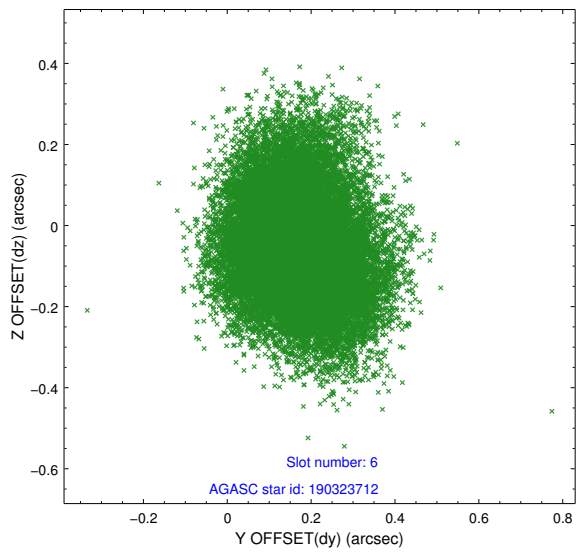
## 2.4.2 Slot 4



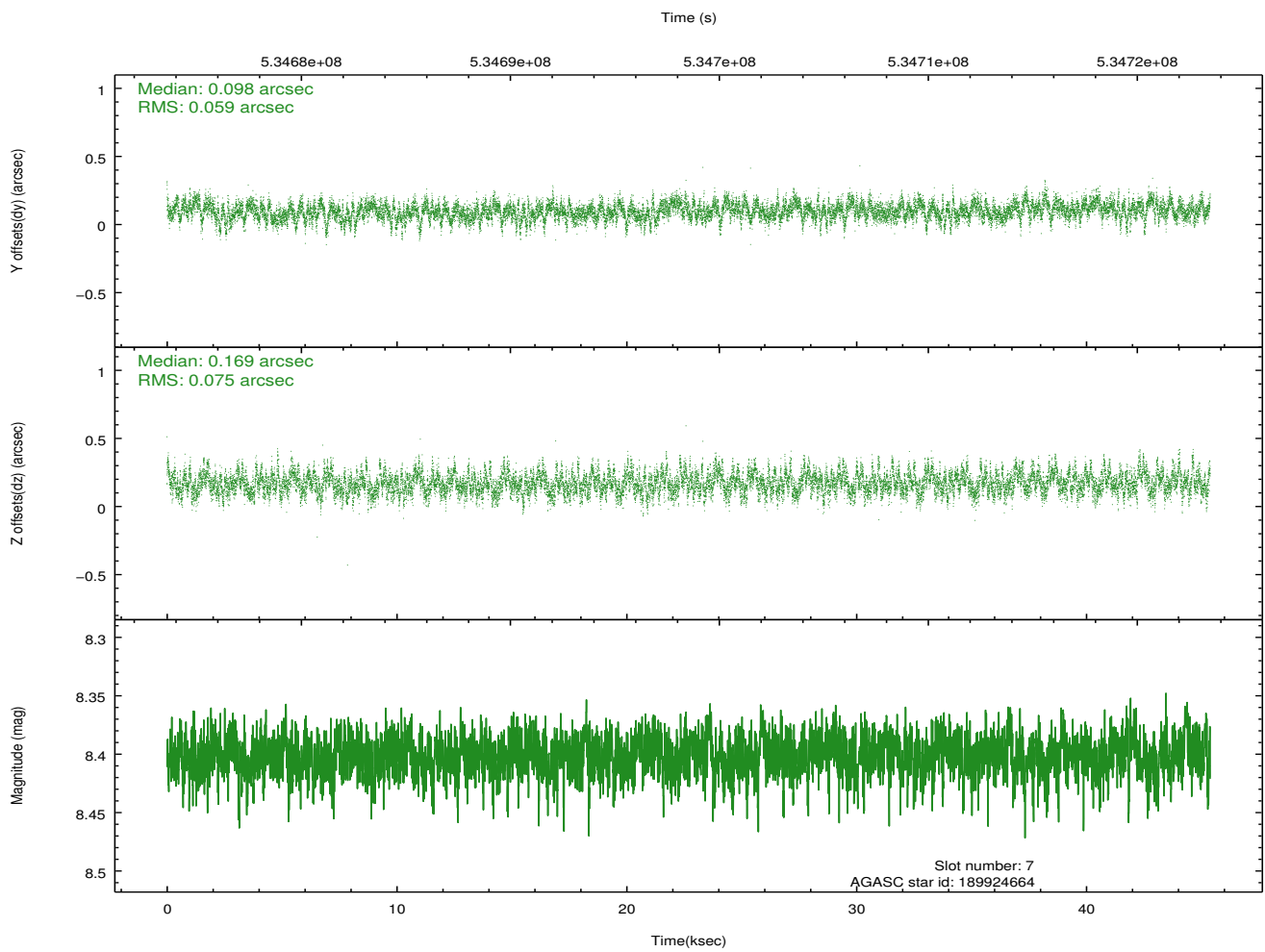
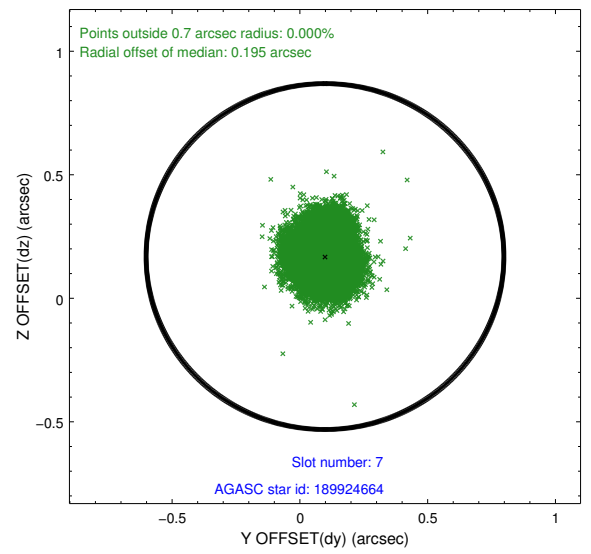
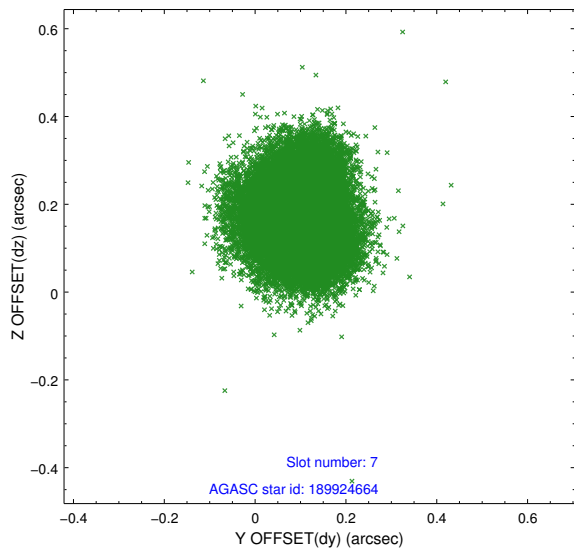
### 2.4.3 Slot 5



## 2.4.4 Slot 6

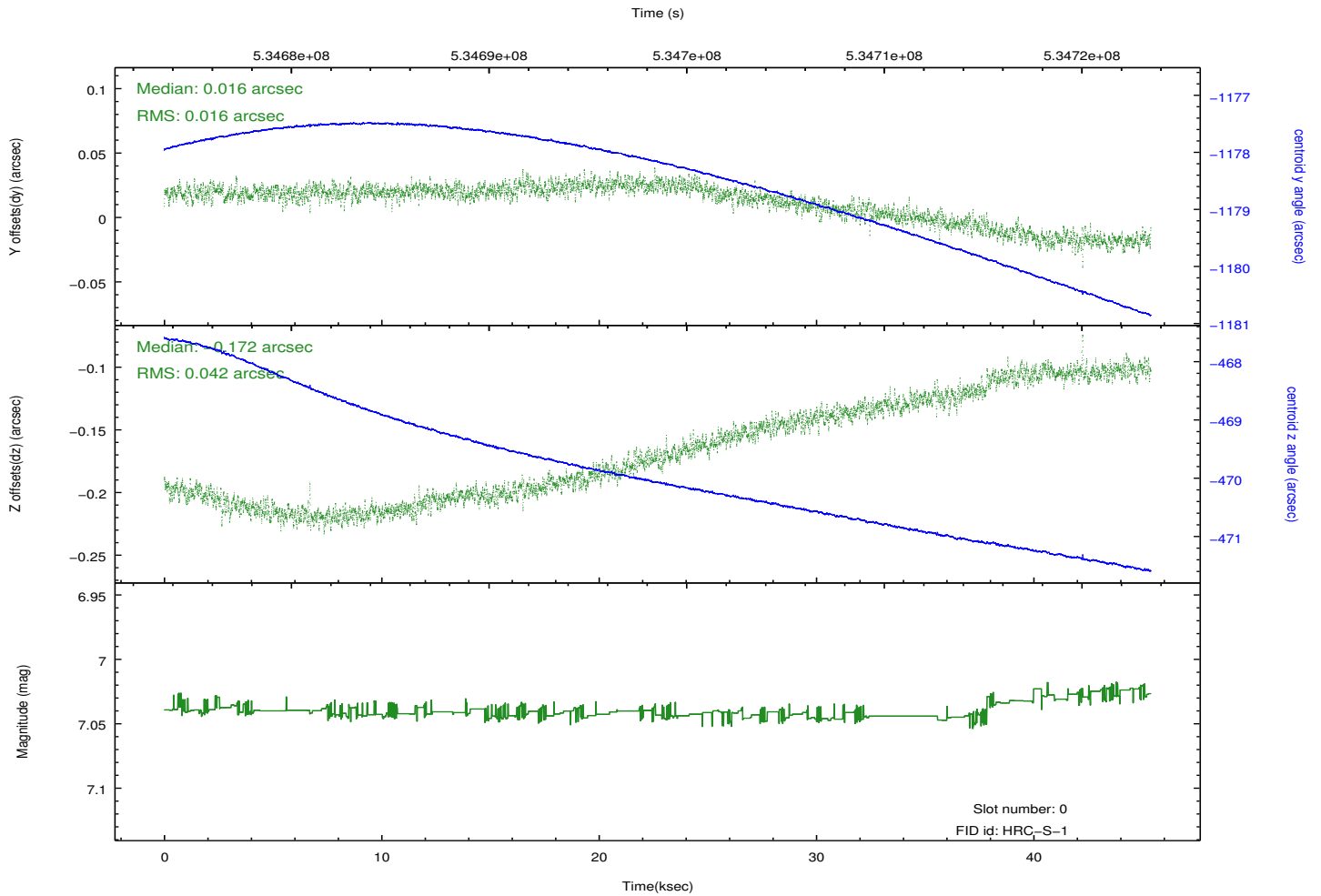
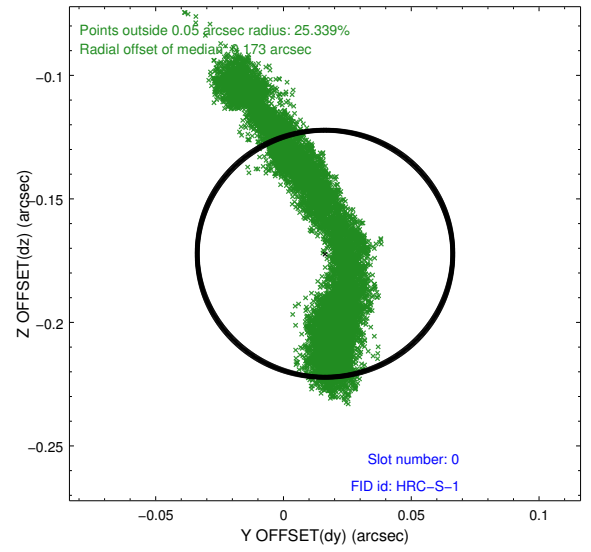
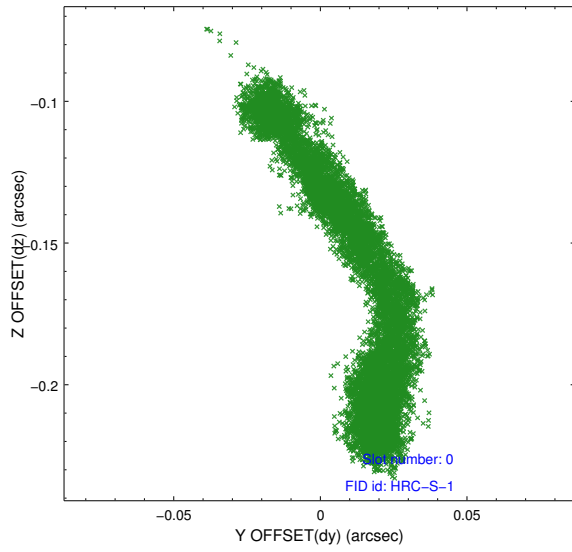


## 2.4.5 Slot 7

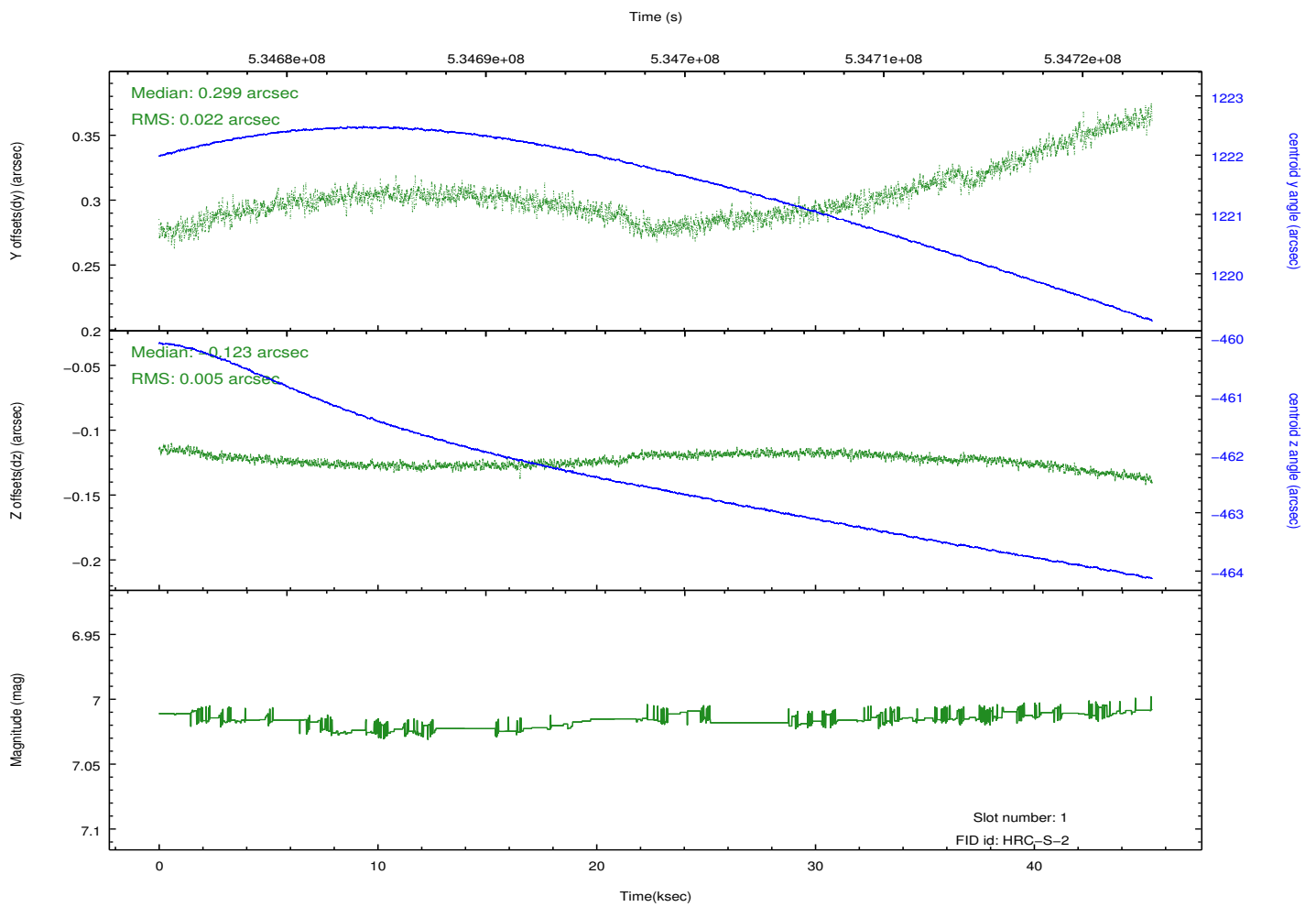
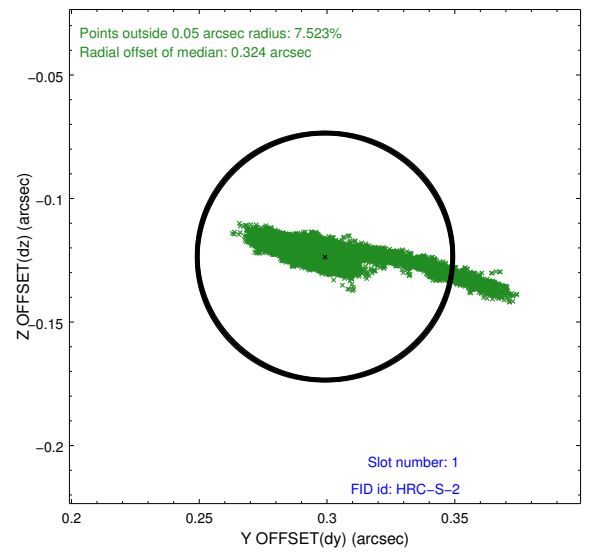
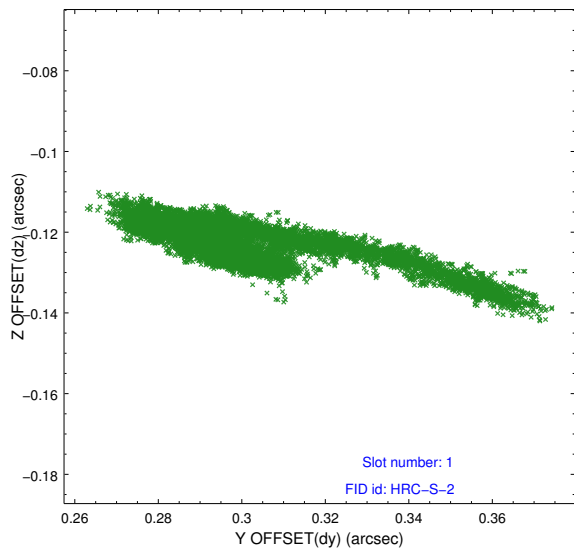


## 2.5 FID Slots

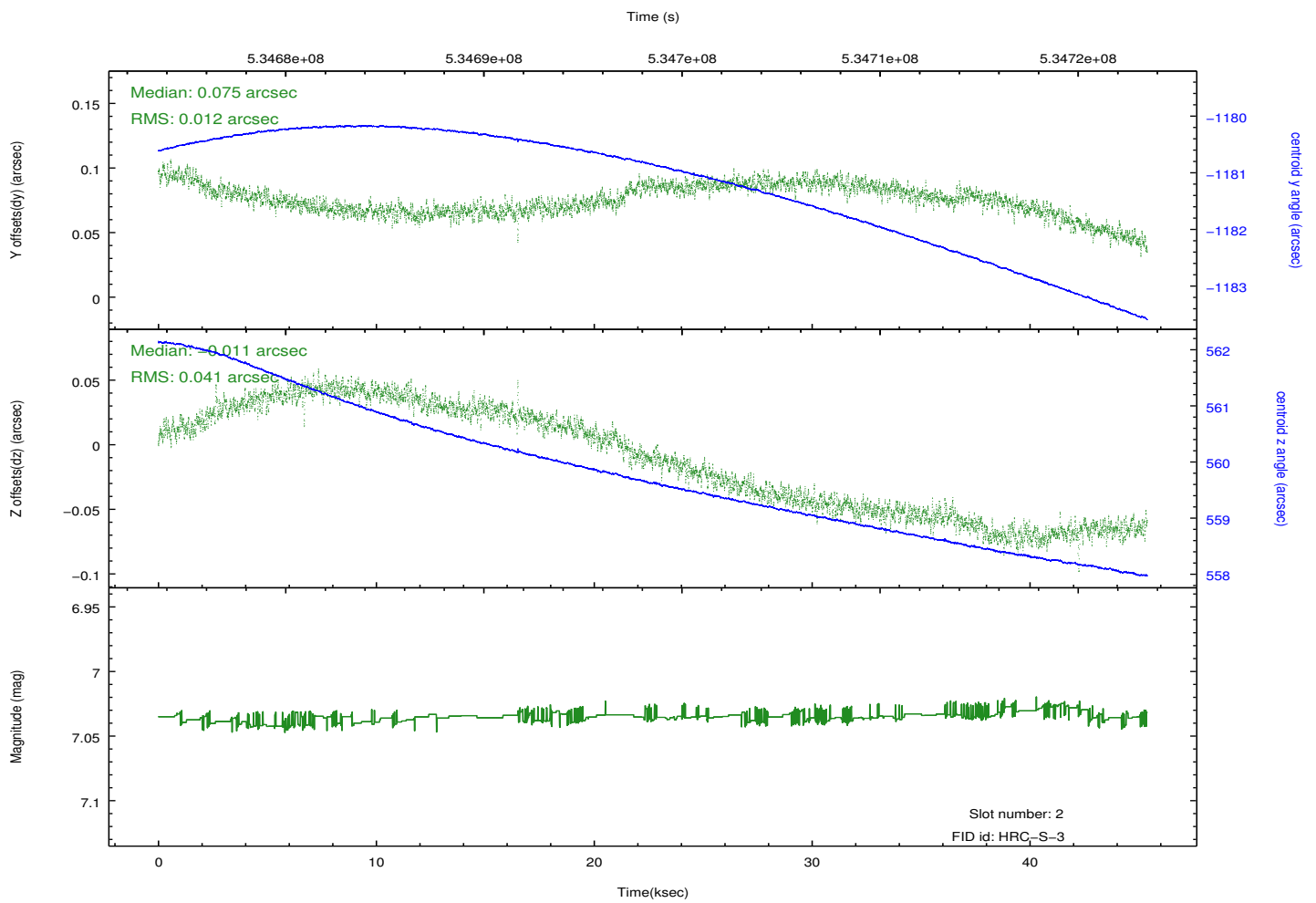
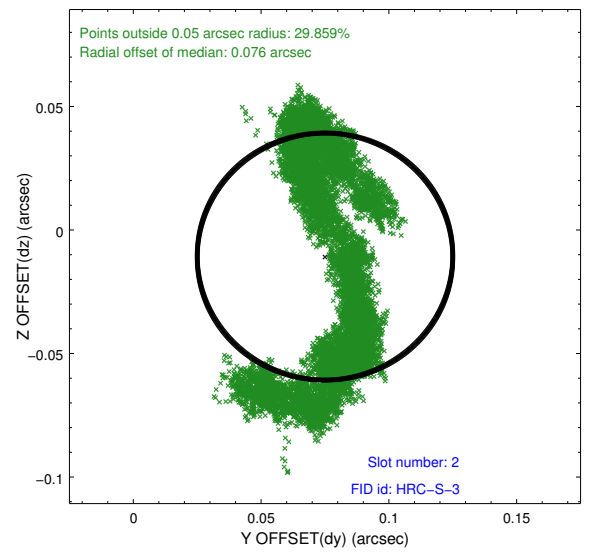
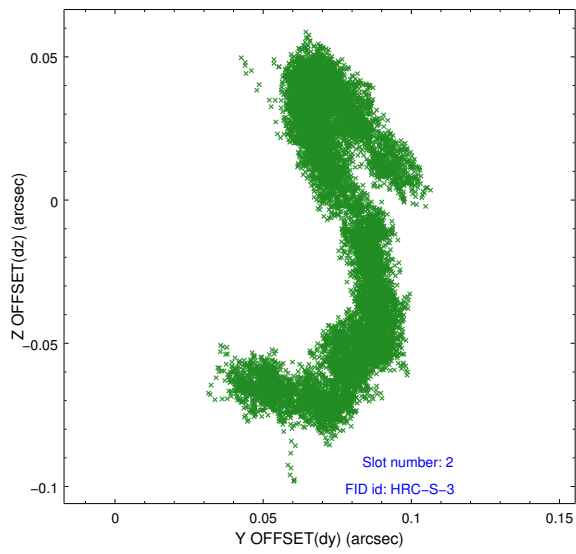
### 2.5.1 Slot 0



## 2.5.2 Slot 1

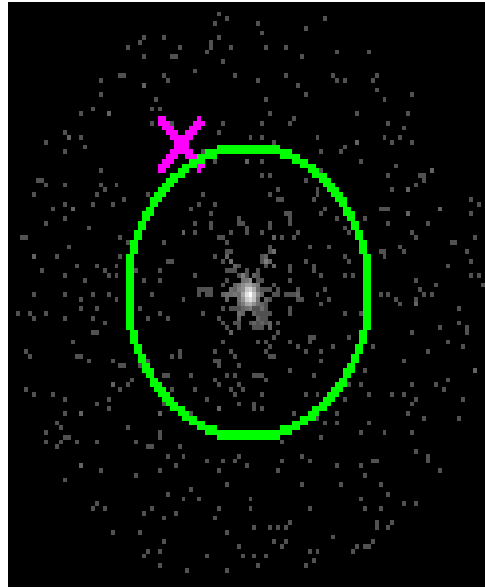


### 2.5.3 Slot 2

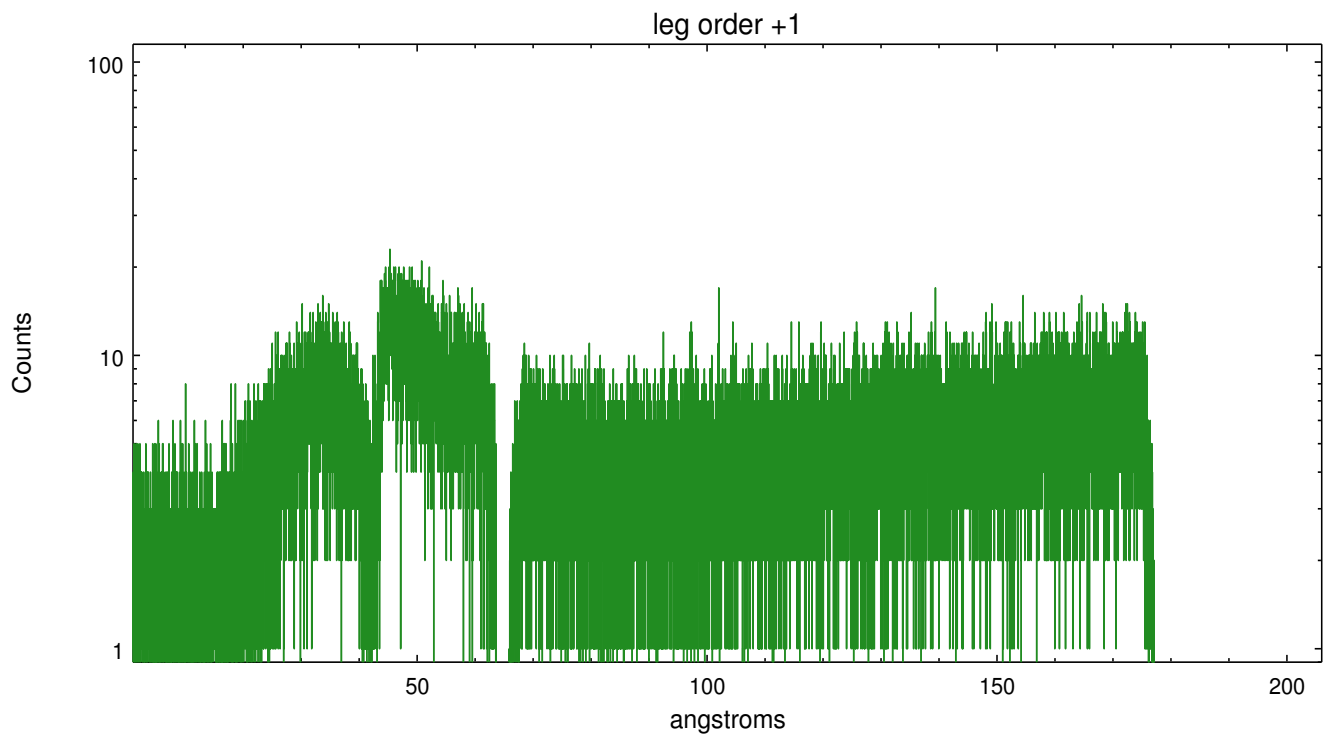
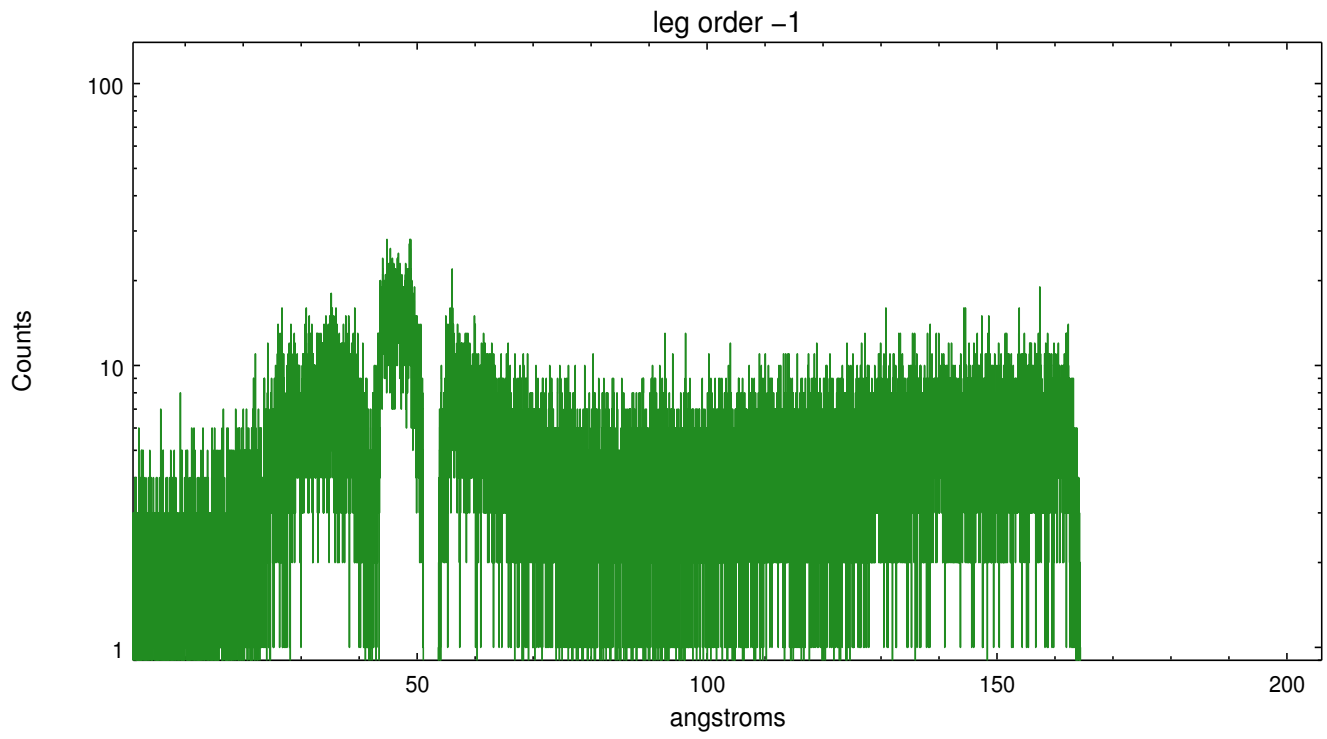


### 3 Gratings

#### 3.1 LETG Arm



LETG Zero Order



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	44.793783748269

### A.2 Comments