

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 20019 - L2 Version 1
Chandra X-Ray Center

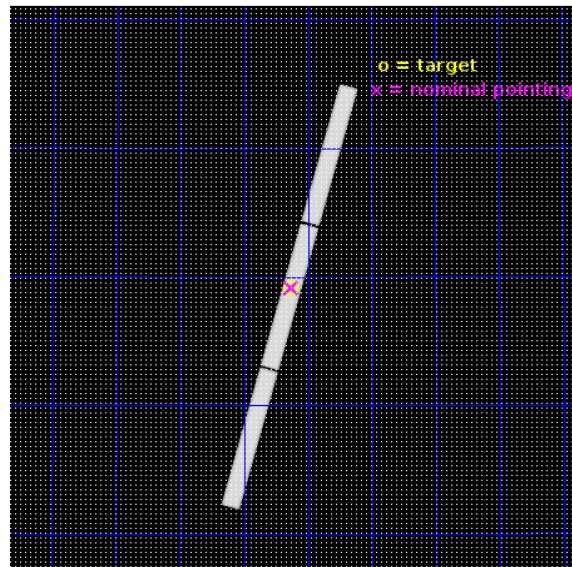
L2 Processing Date : Mar 5 2017

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1 Front

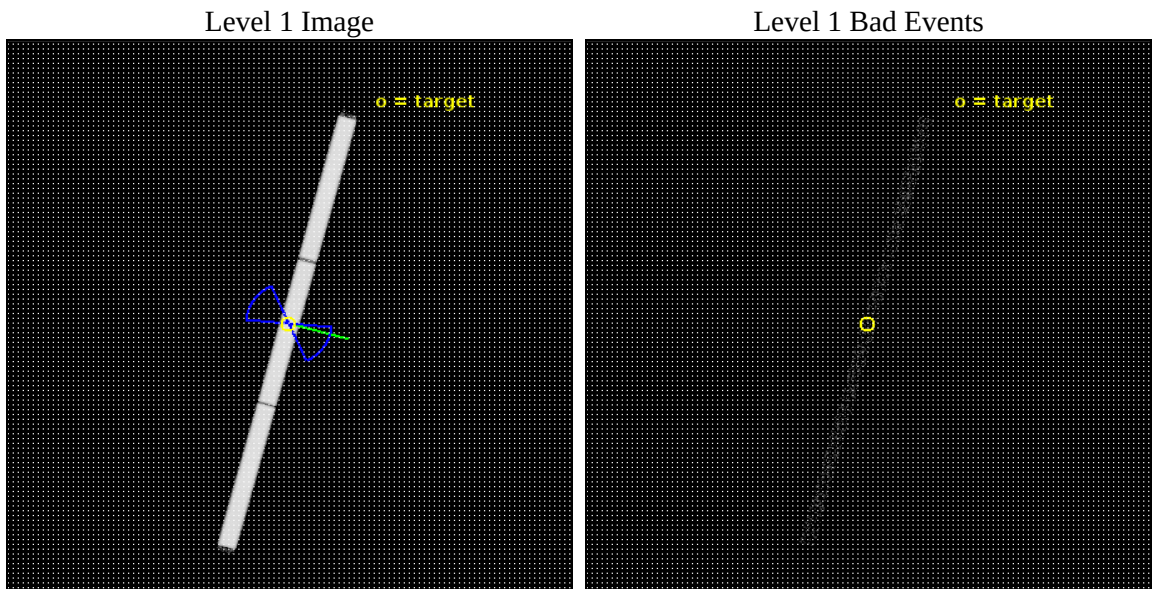
seq_num	201027	Sequence number
obs_id	20019	Observation id
title	Can Planets Affect Coronal Abundances?	Proposal title
observer	Brian Wood	Principal investigator
object	Tau Boo	Source name
ra_targ	206.815417	Observer's specified target RA [deg]
dec_targ	17.456889	Observer's specified target Dec [deg]
ra_nom	206.81504699096	Nominal RA [deg]
dec_nom	17.458539056432	Nominal Dec [deg]
roll_nom	105.06747021129	Nominal Roll [deg]
revision	1	Processing version of data
ontime	28789.432920694	[s]
livetime	28508.493193073	Ontime multiplied by DTCOR
l2events	2556298	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	28600.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	28789.432920694	[s]
caldbver	4.7.3	 	l1events	3243466	Number of level 1 events
date	2017-03-05T17:34:29	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32810.00, 32729.73)	src1a sky pixel position

2.1.3 Events

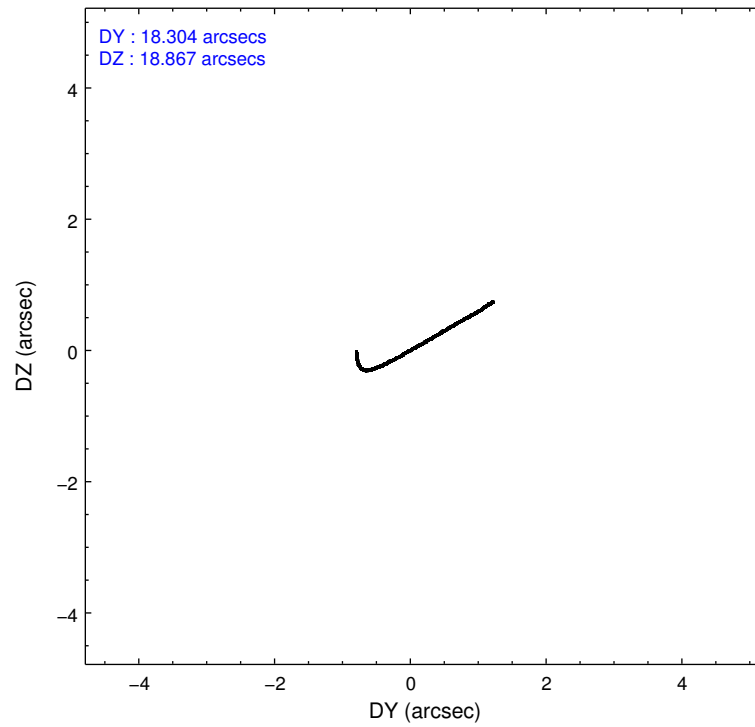
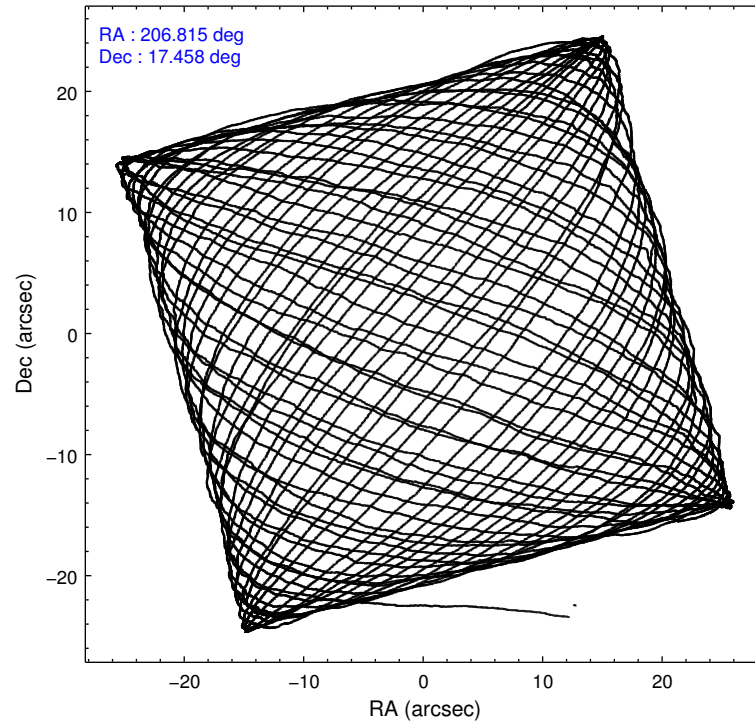
Level 1 Events

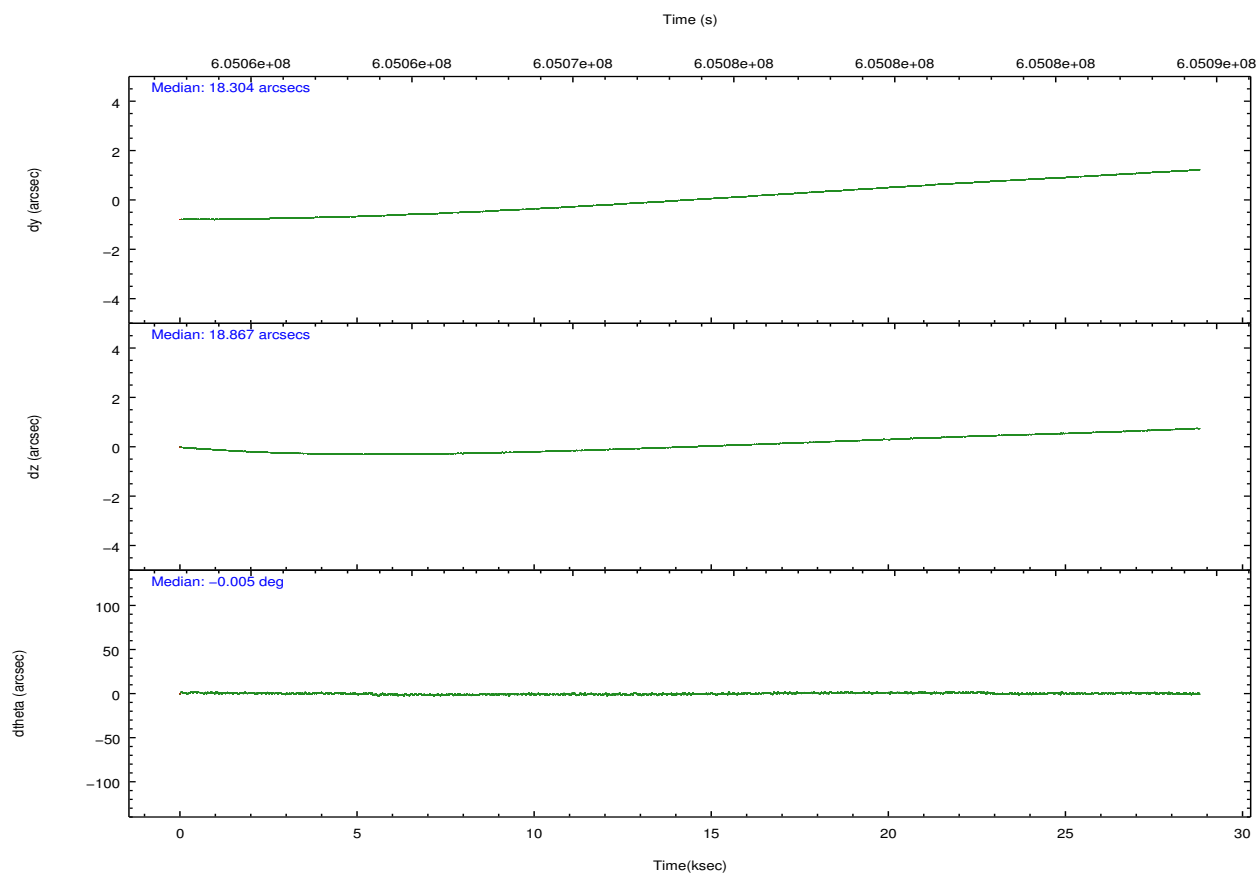
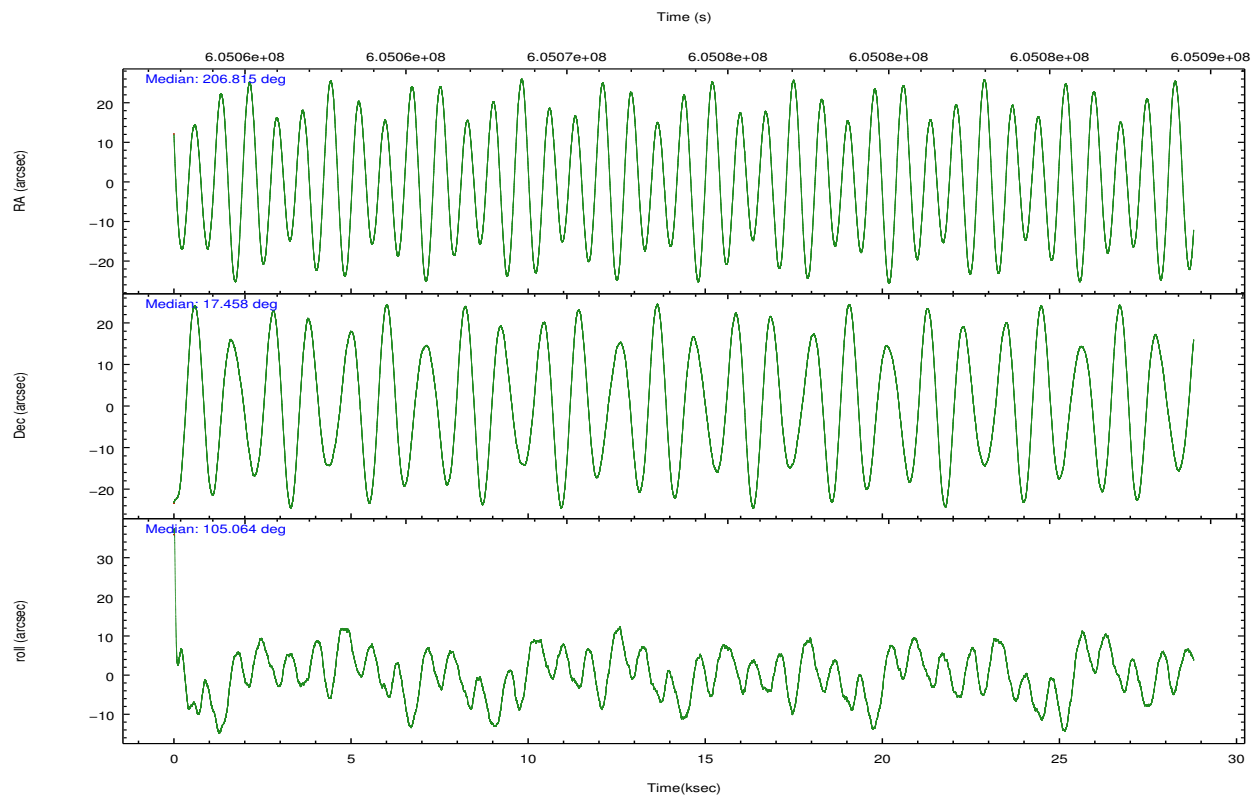
	segment 1	segment 2	segment 3
level 1 events	1092579	1078207	1072680
rejected events	42024	41278	41144
rejected %	3%	3%	3%

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	206.837516	206.8150469909627			
[deg] Pointing Dec	17.439202	17.45853905643229			
[deg] Pointing Roll	104.993369	105.0674702112867			
[deg] Roll angle	305.000000	305.000000			
[deg] Roll tolerance	30.000000	30.000000			
Roll constraint allows 180D rotation	Y	Y			
[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)	605059425.184000	605058204.8161401			
Observation start date	2017-03-05T00:02:36	2017-03-04T23:43:24			
[s] Observation end time (MET)	605088025.184000	605089013.75543			
Observation end date	2017-03-05T07:59:16	2017-03-05T08:16:53			

2.3 Aspect



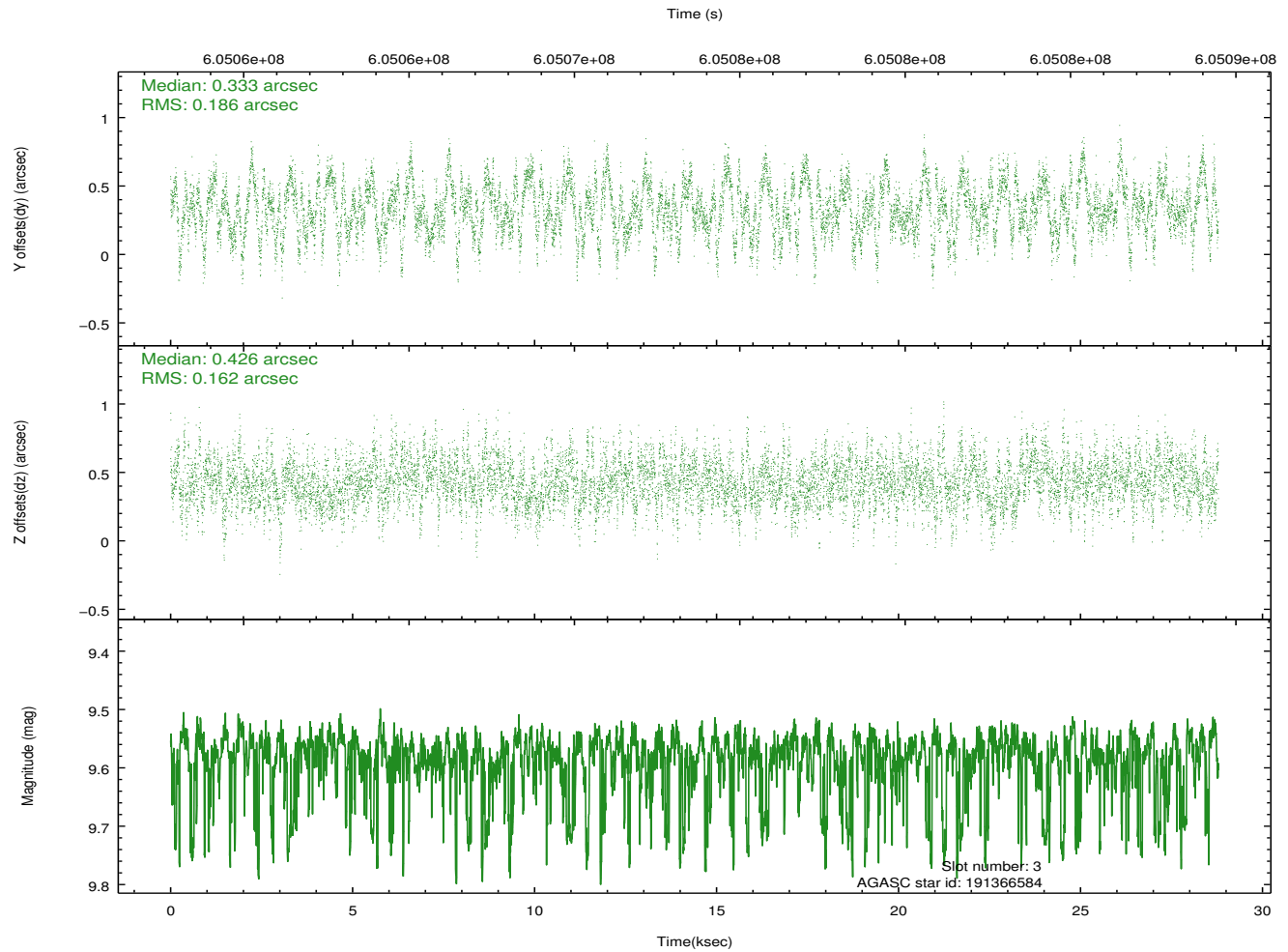
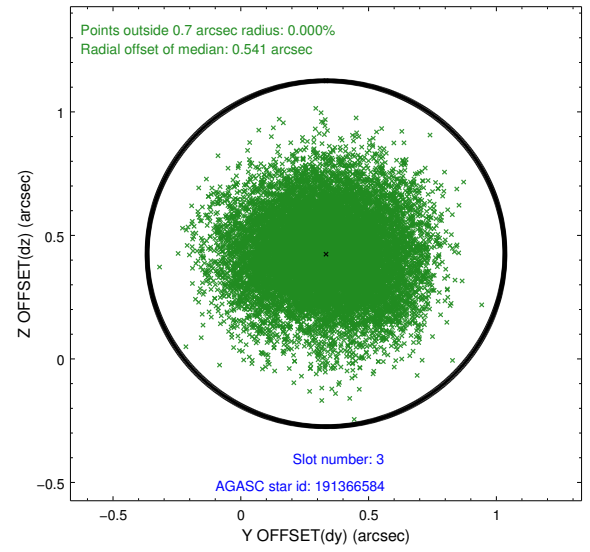
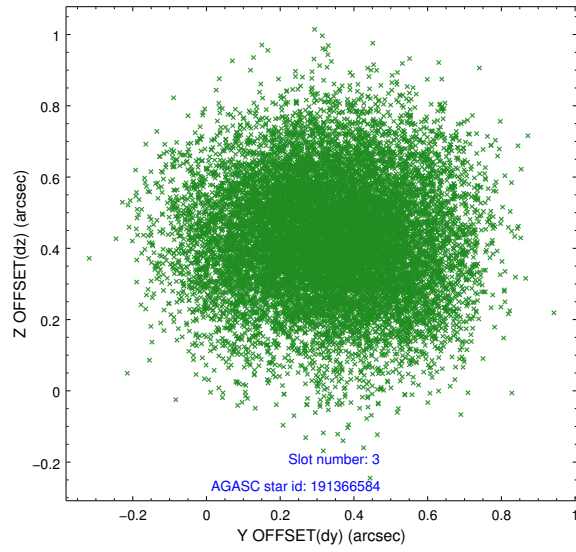


Slot Statistics

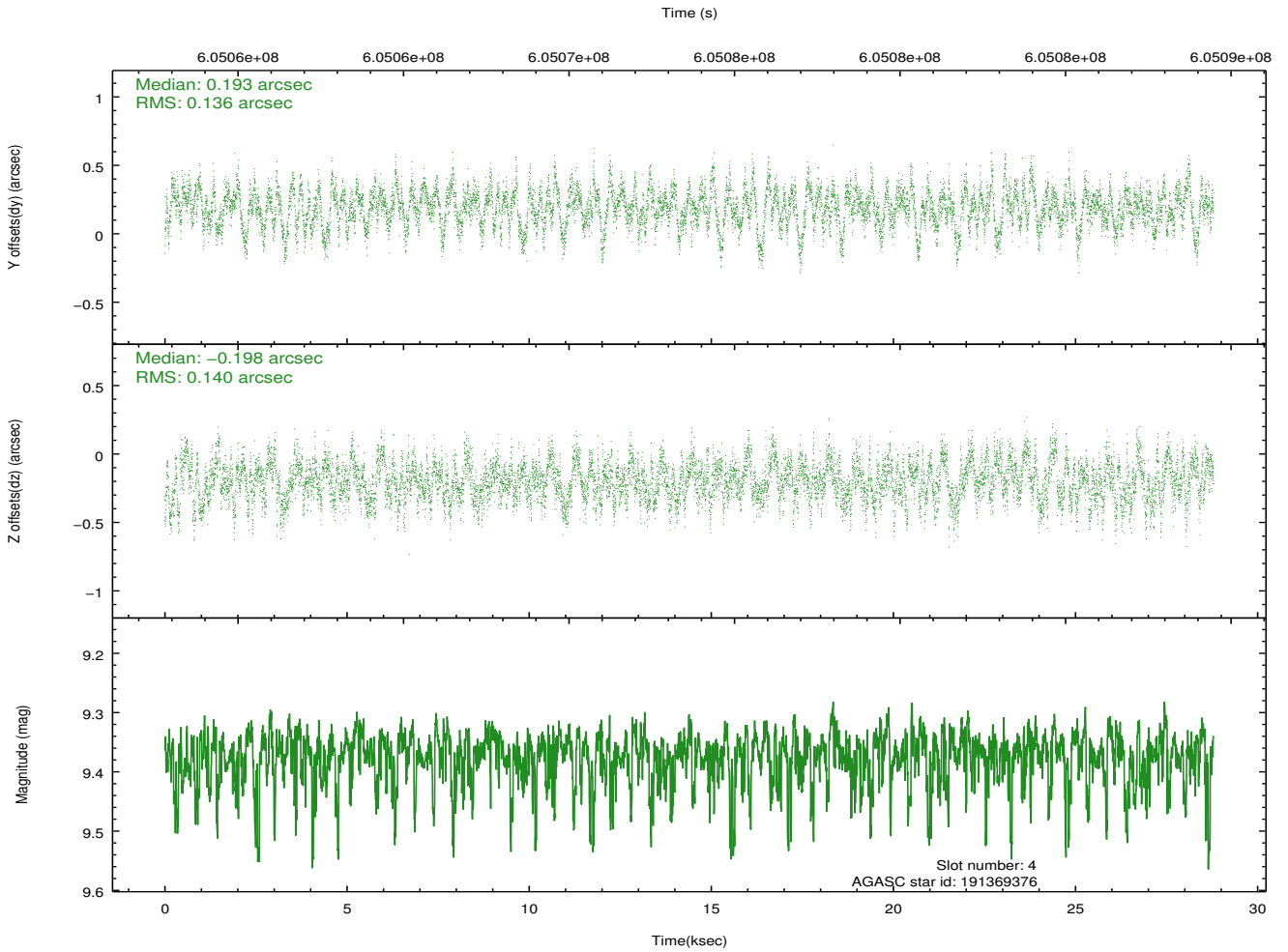
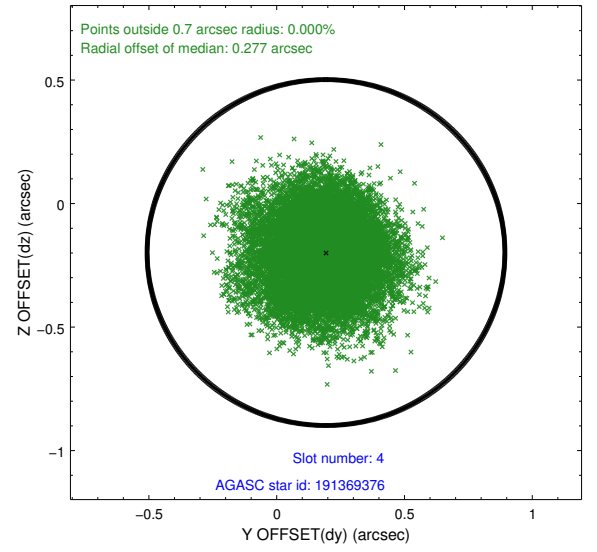
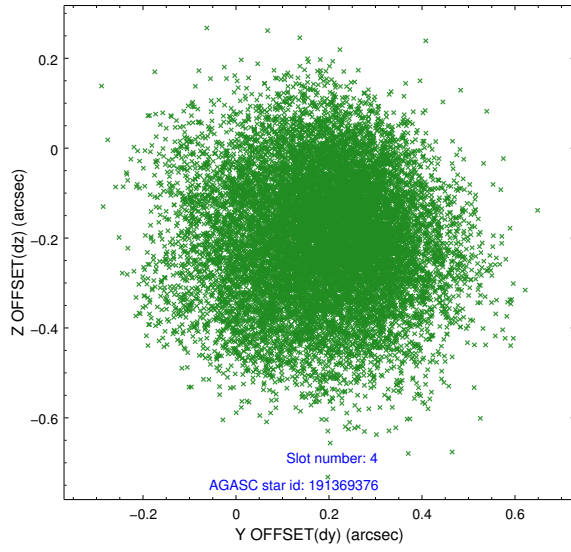
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.04	7023	-0.026	-0.263	0.021	0.029	0.000000	0.000000	-1172.94	-468.08
1	FID		HRC-S-2	7.00	7023	0.323	-0.115	0.012	0.026	0.000000	0.000000	1226.93	-460.55
2	FID		HRC-S-3	7.02	7023	0.094	0.075	0.020	0.029	0.000000	0.000000	-1175.40	561.72
3	GUIDE	used	191366584	9.58	14021	0.333	0.426	0.268	0.417	207.678300	17.016937	-2210.96	-2403.83
4	GUIDE	used	191369376	9.37	14025	0.193	-0.198	0.211	0.331	206.887864	16.920737	-1847.22	314.97
5	GUIDE	used	191761480	8.88	14038	-0.425	-0.488	0.141	0.231	206.398691	17.742440	1445.36	1170.29
6	GUIDE	used	191765024	9.05	13950	-0.014	0.086	0.155	0.257	207.333670	17.693483	447.37	-1880.05
7	GUIDE	used	191766032	8.13	14038	-0.074	0.171	0.125	0.211	207.355598	17.879340	1074.60	-2124.65

2.4 Star Slots

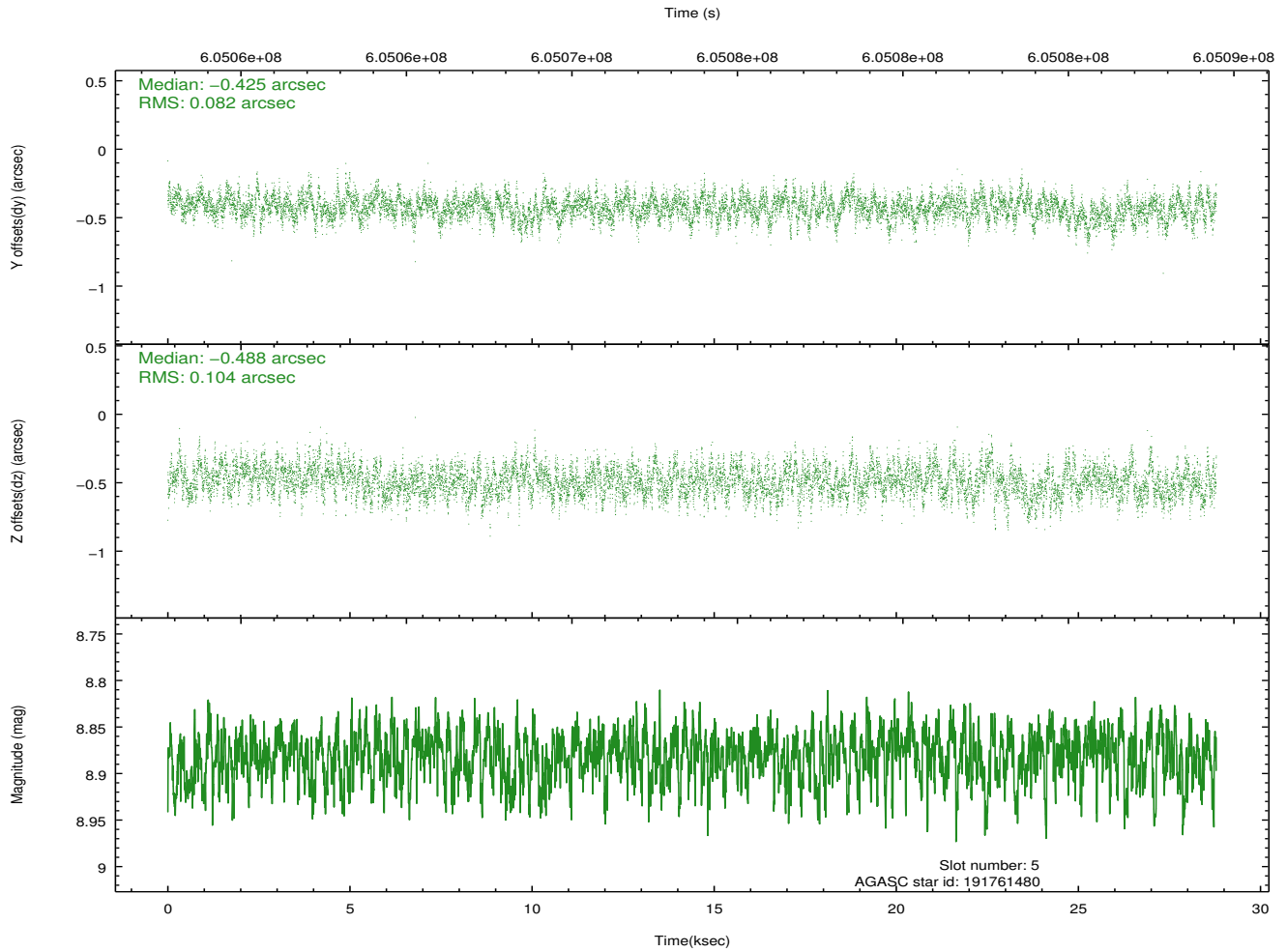
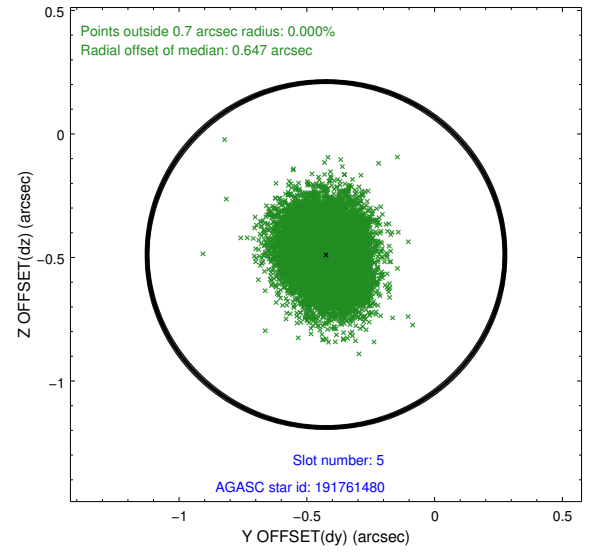
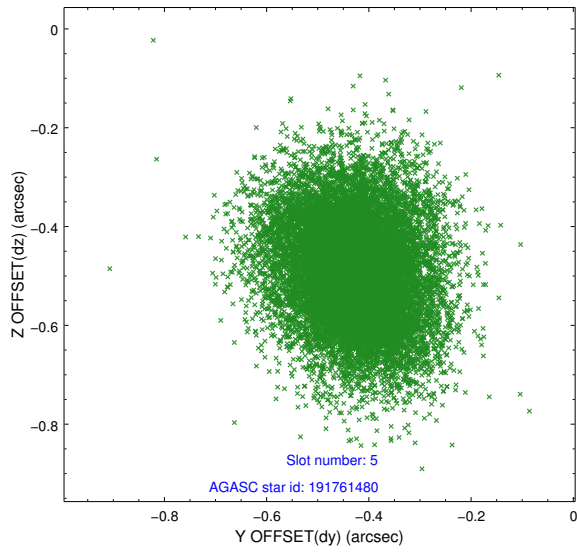
2.4.1 Slot 3



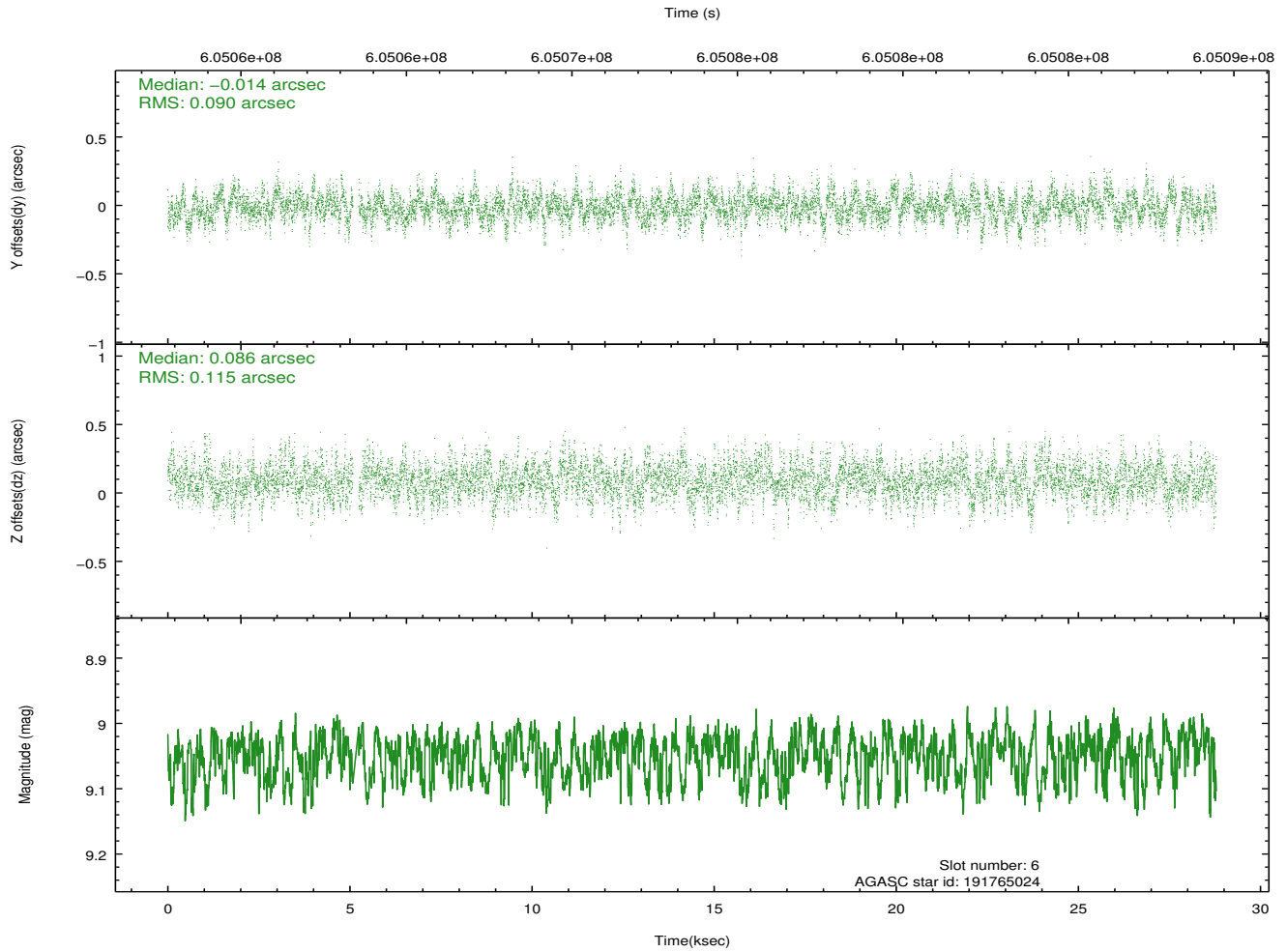
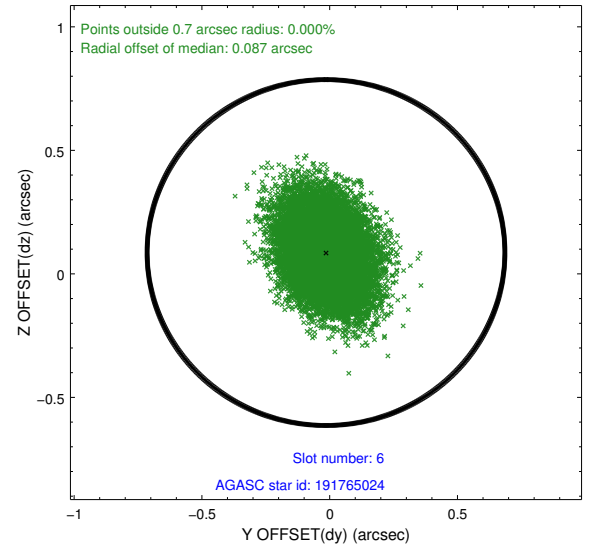
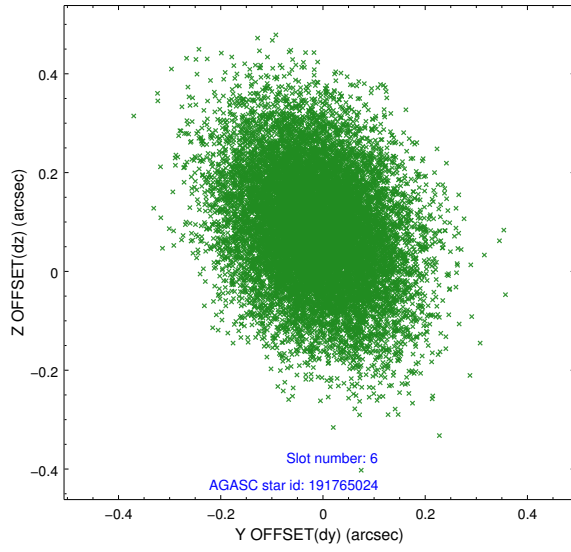
2.4.2 Slot 4



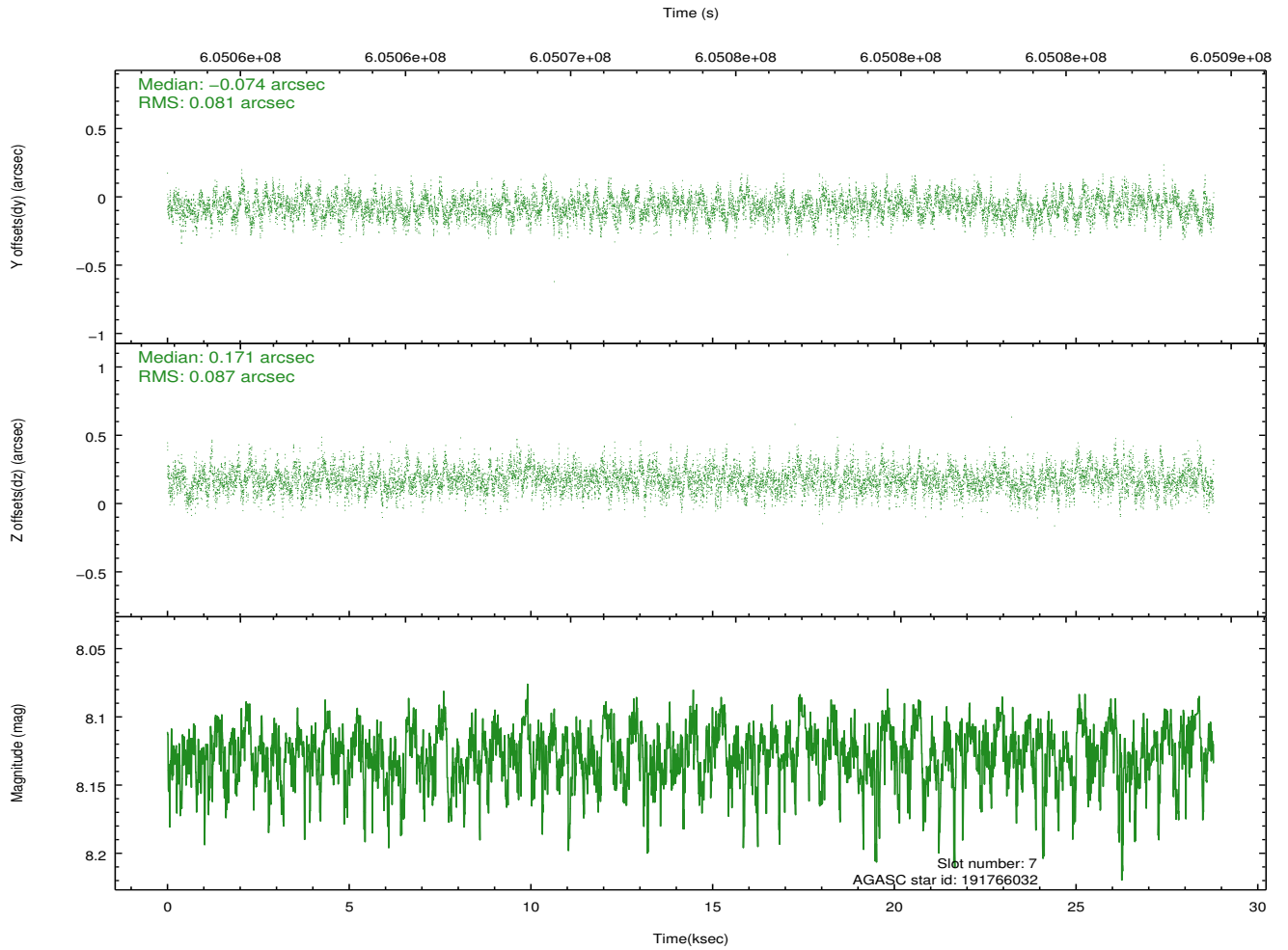
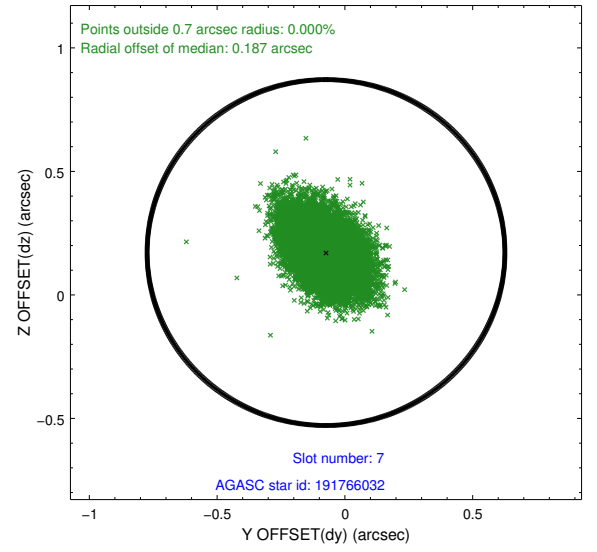
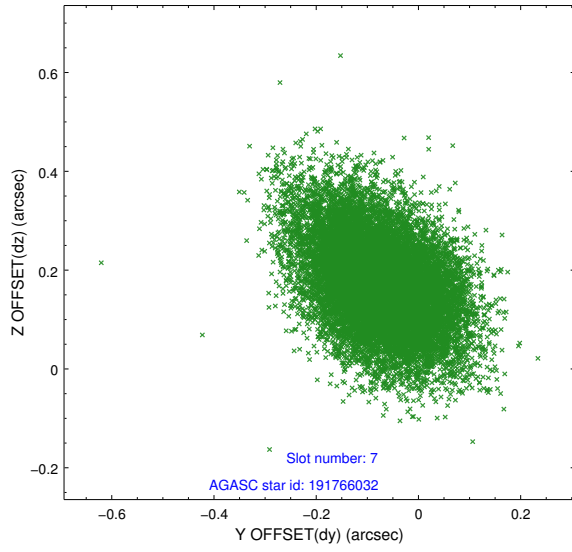
2.4.3 Slot 5



2.4.4 Slot 6

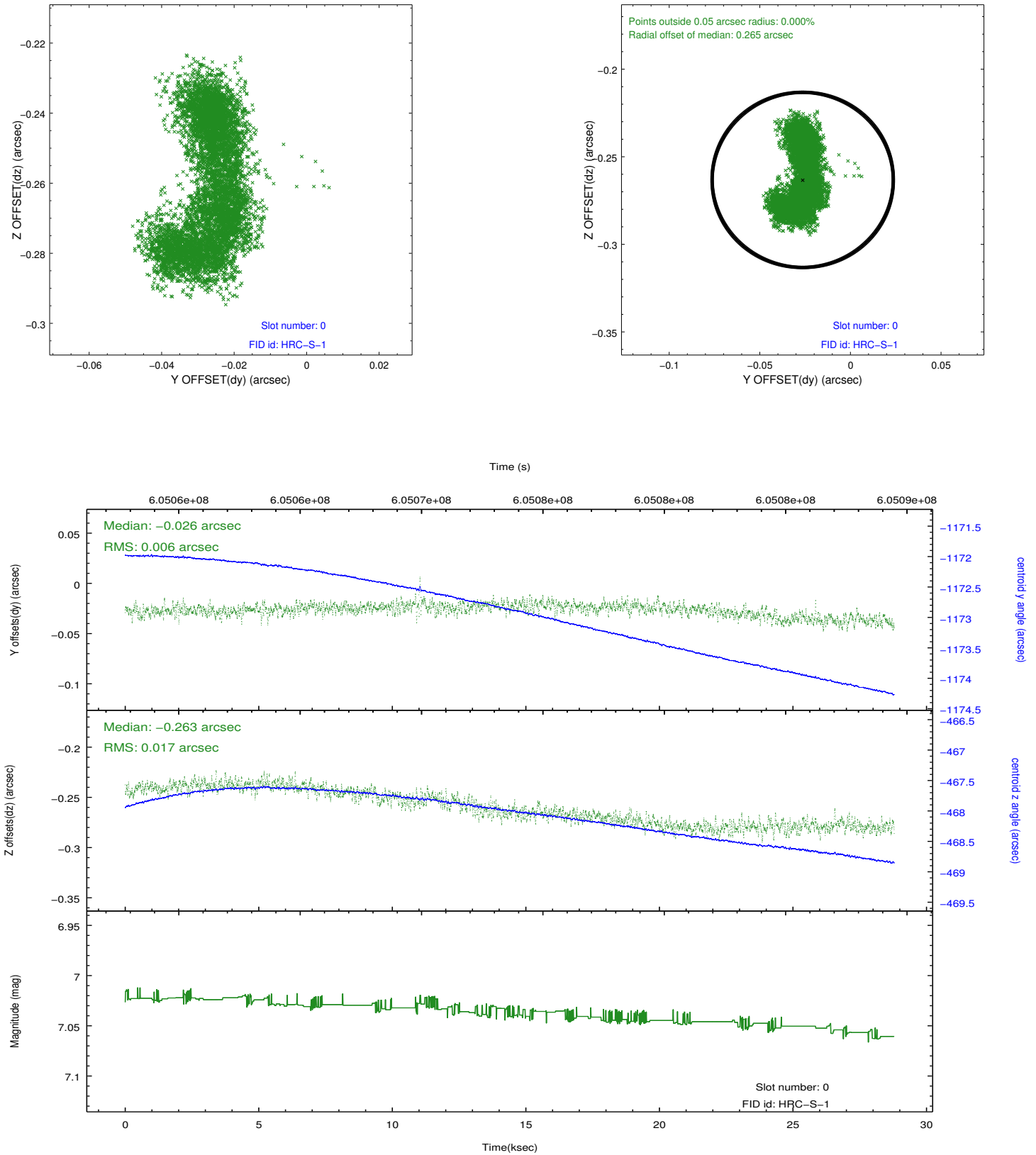


2.4.5 Slot 7

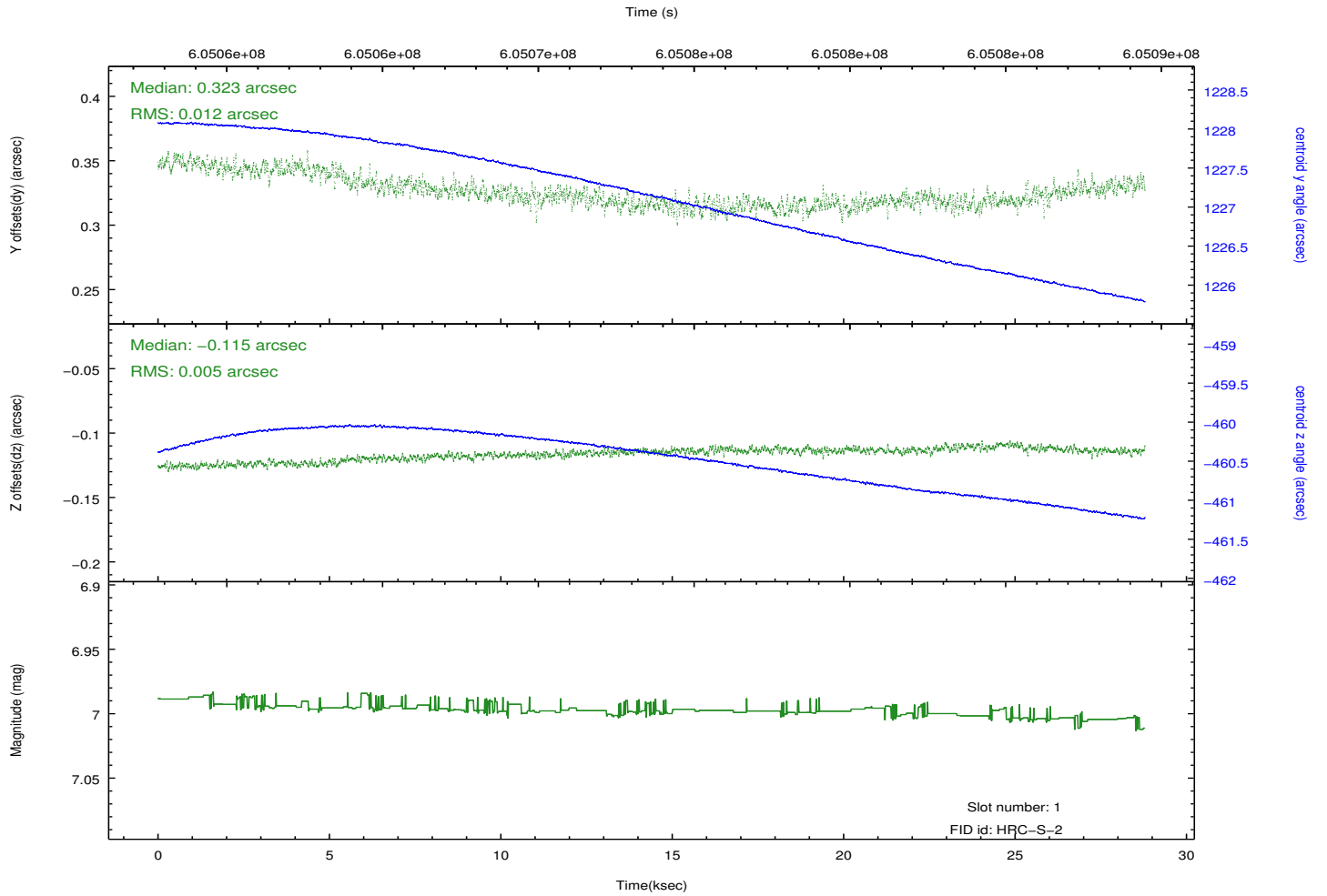
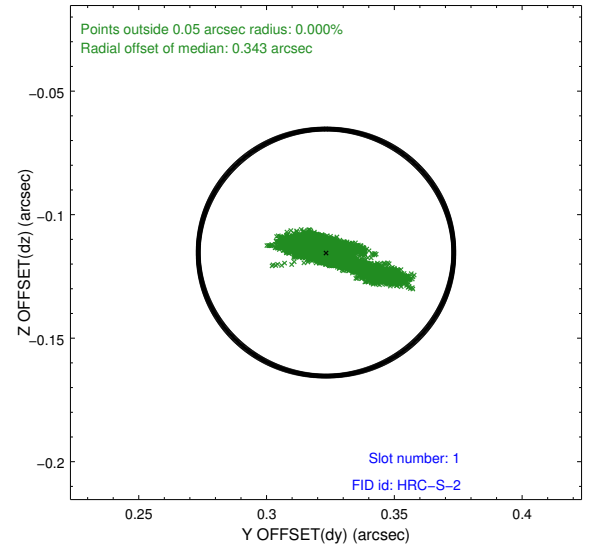
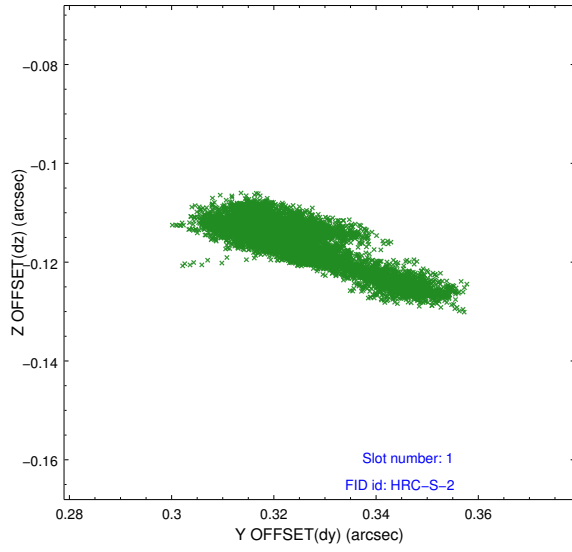


2.5 FID Slots

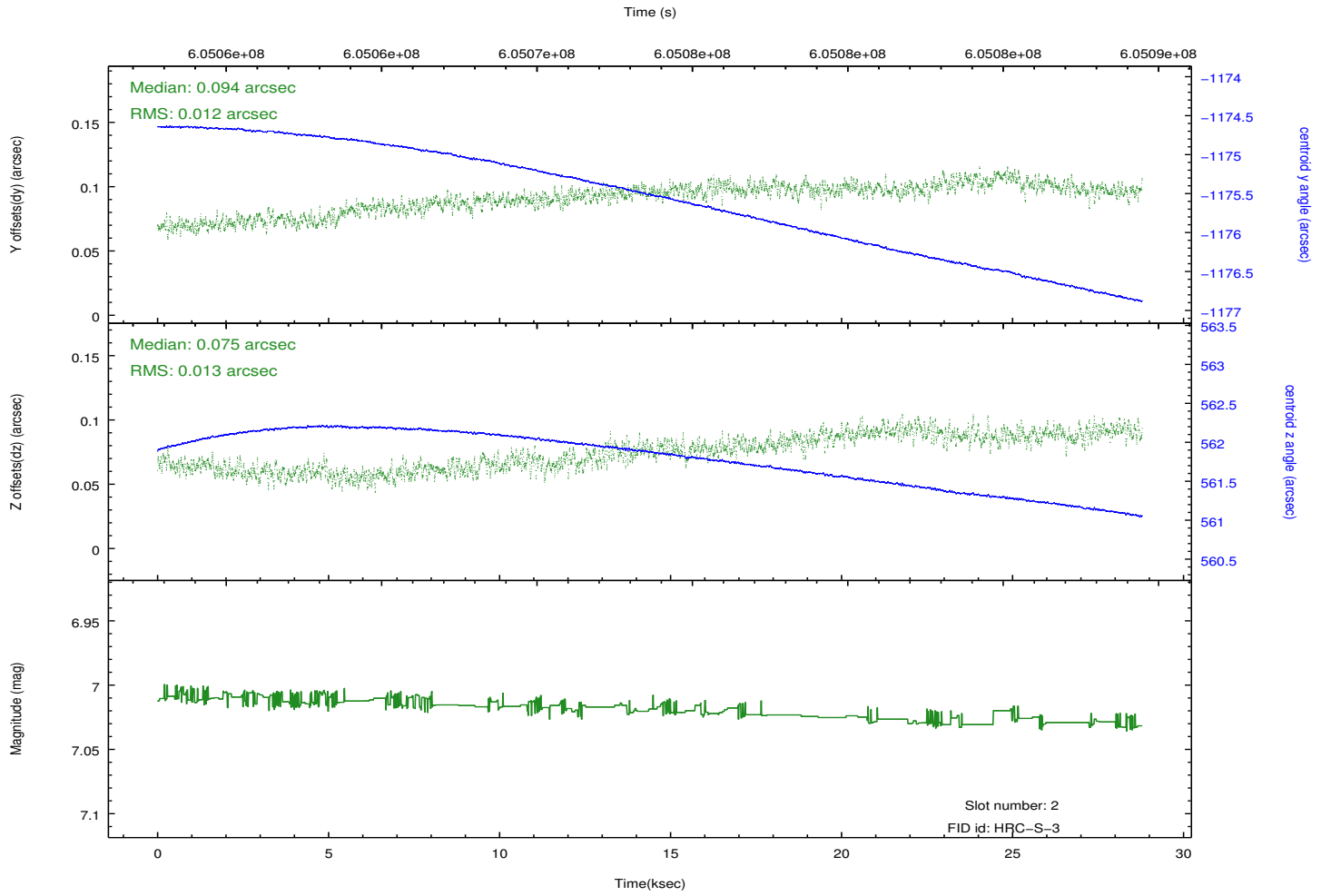
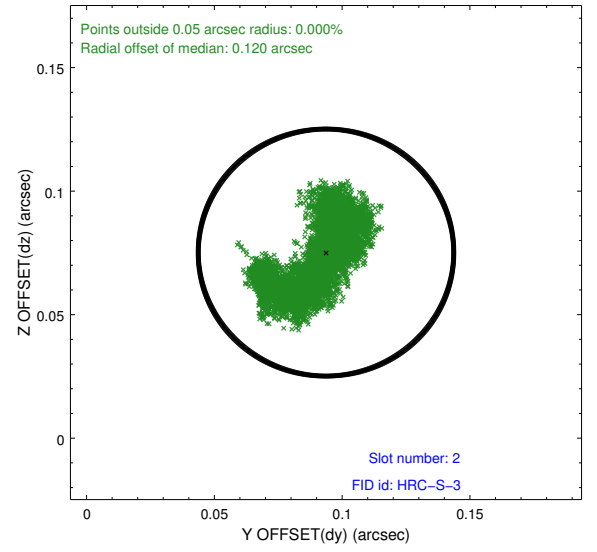
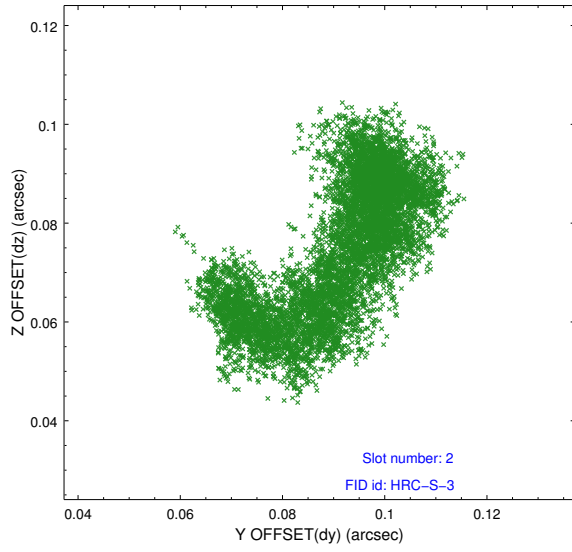
2.5.1 Slot 0



2.5.2 Slot 1

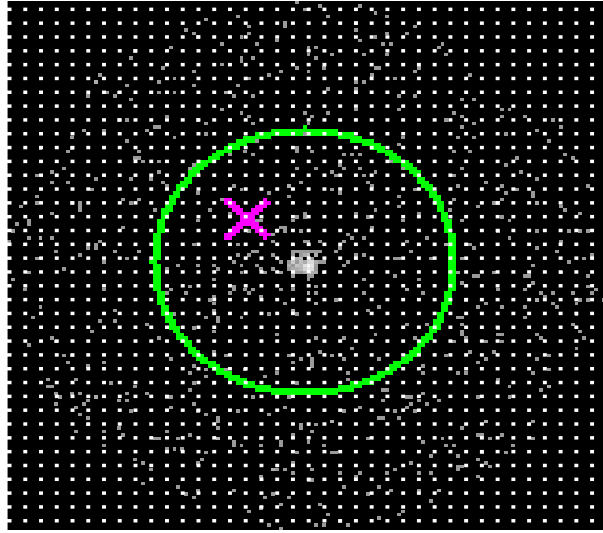


2.5.3 Slot 2

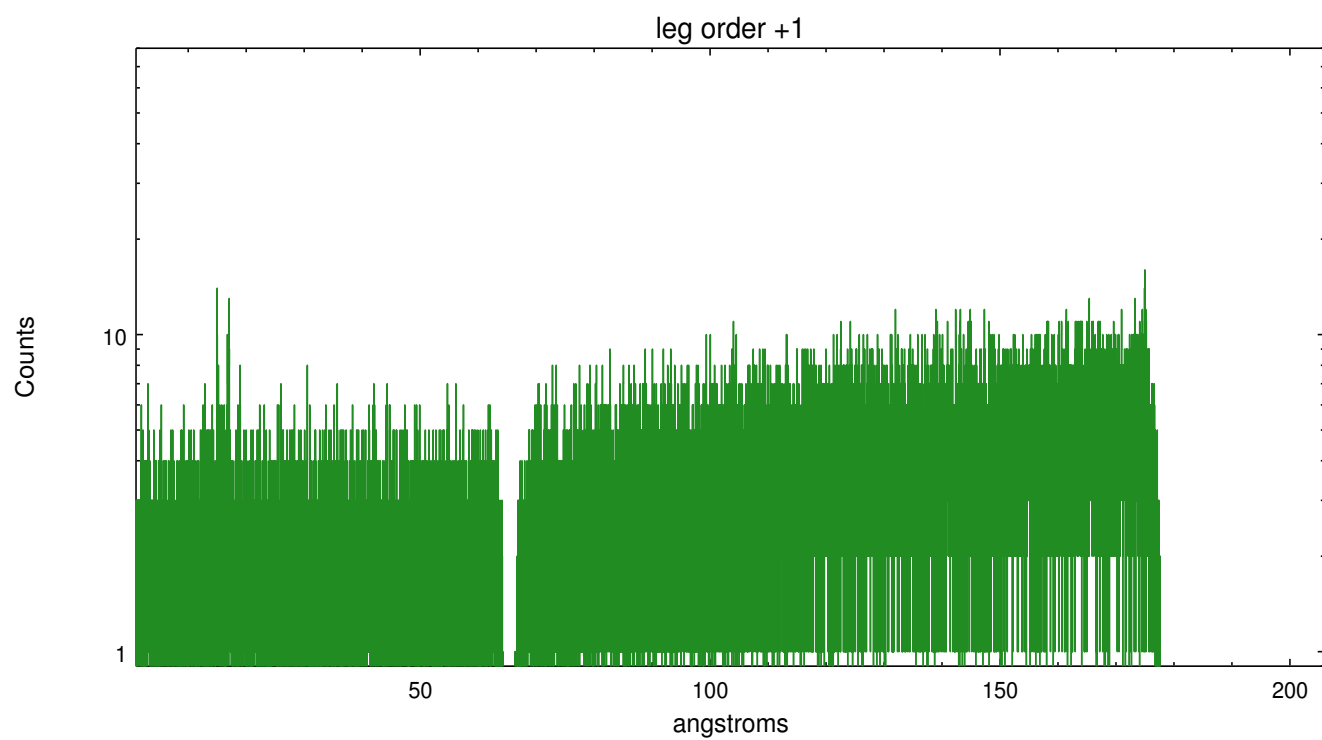
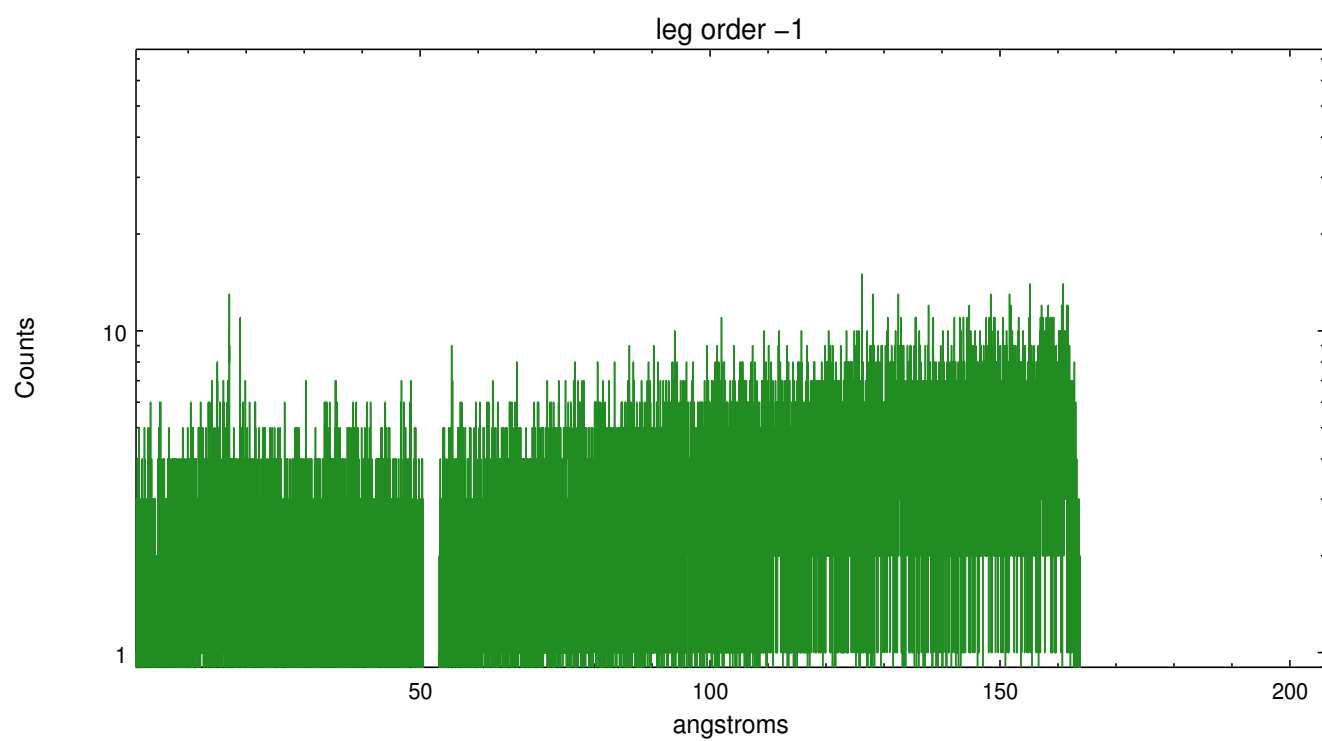


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.03.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.789432920694

A.2 Comments

Roll constraint met.

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Zeroth order selected by pipeline tools is not well-centered on the brighter source, but is displaced slightly toward the companion. The user may want to select a region or source of interest, then use software tools such as CIAO to specify the coordinates of the zeroth order source of interest before running the tools to resolve the dispersed events.