

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19917 - L2 Version 1
Chandra X-Ray Center

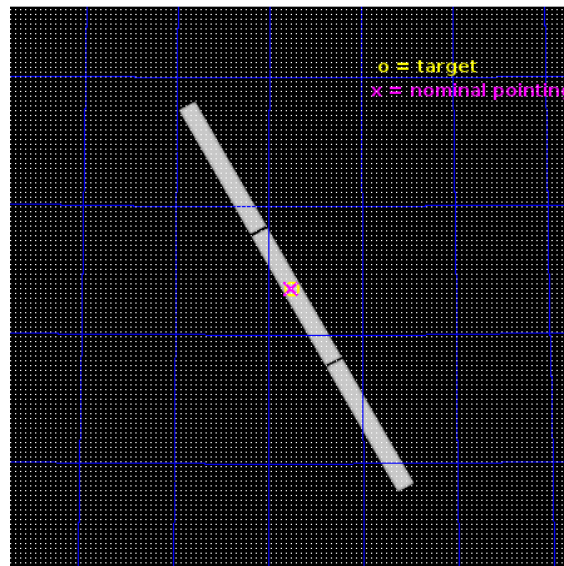
L2 Processing Date : Feb 8 2017

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1 Front

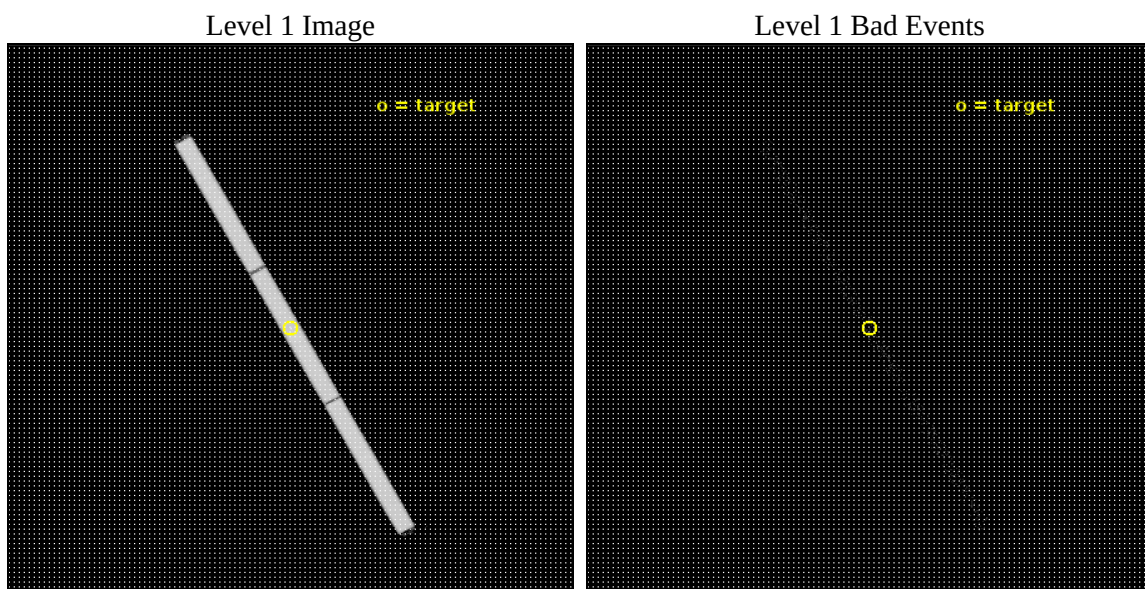
seq_num	703217	Sequence number
obs_id	19917	Observation id
title	The NLSy1 IRAS17020+4544: dissecting the first low ionization sub-relativistic black hole wind with LETG and HST/COS	Proposal title
observer	Dr Anna Lia Longinotti	Principal investigator
object	IRAS 17020+4544	Source name
ra_targ	255.876667	Observer's specified target RA [deg]
dec_targ	45.679722	Observer's specified target Dec [deg]
ra_nom	255.87797611306	Nominal RA [deg]
dec_nom	45.679947242545	Nominal Dec [deg]
roll_nom	61.06640003816	Nominal Roll [deg]
revision	1	Processing version of data
ontime	22181.770034432	[s]
livetime	21972.780818678	Ontime multiplied by DTCOR
l2events	1887933	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	22000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	22181.770034432	[s]
caldbver	4.7.3	 	l1events	2406741	Number of level 1 events
date	2017-02-08T05:14:35	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32794.38, 32762.98)	src1a sky pixel position

2.1.3 Events

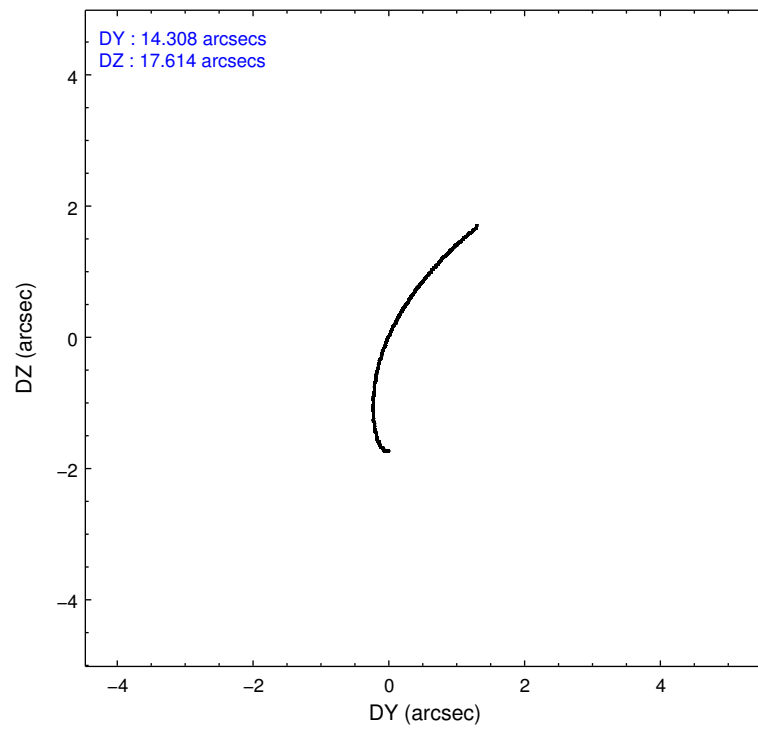
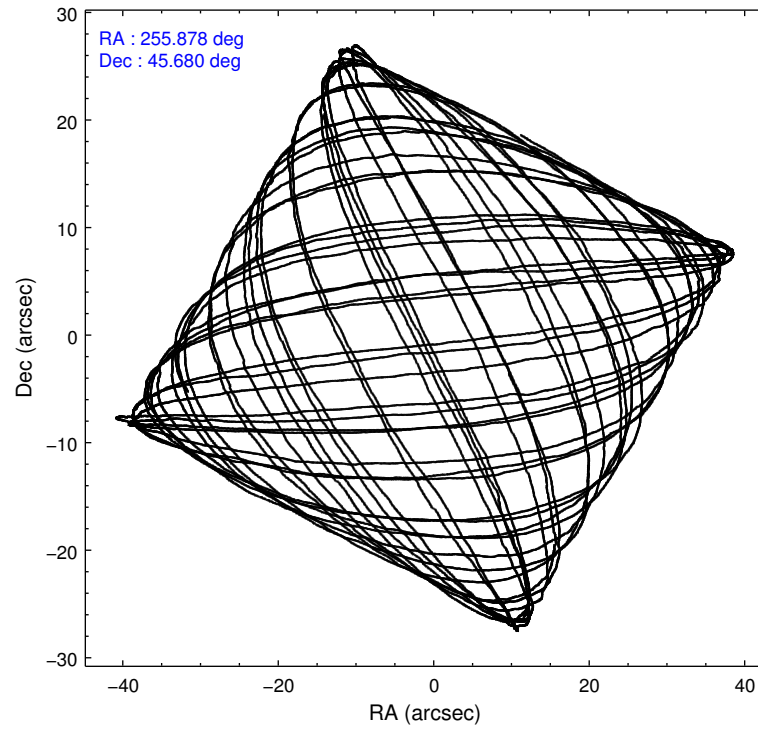
Level 1 Events

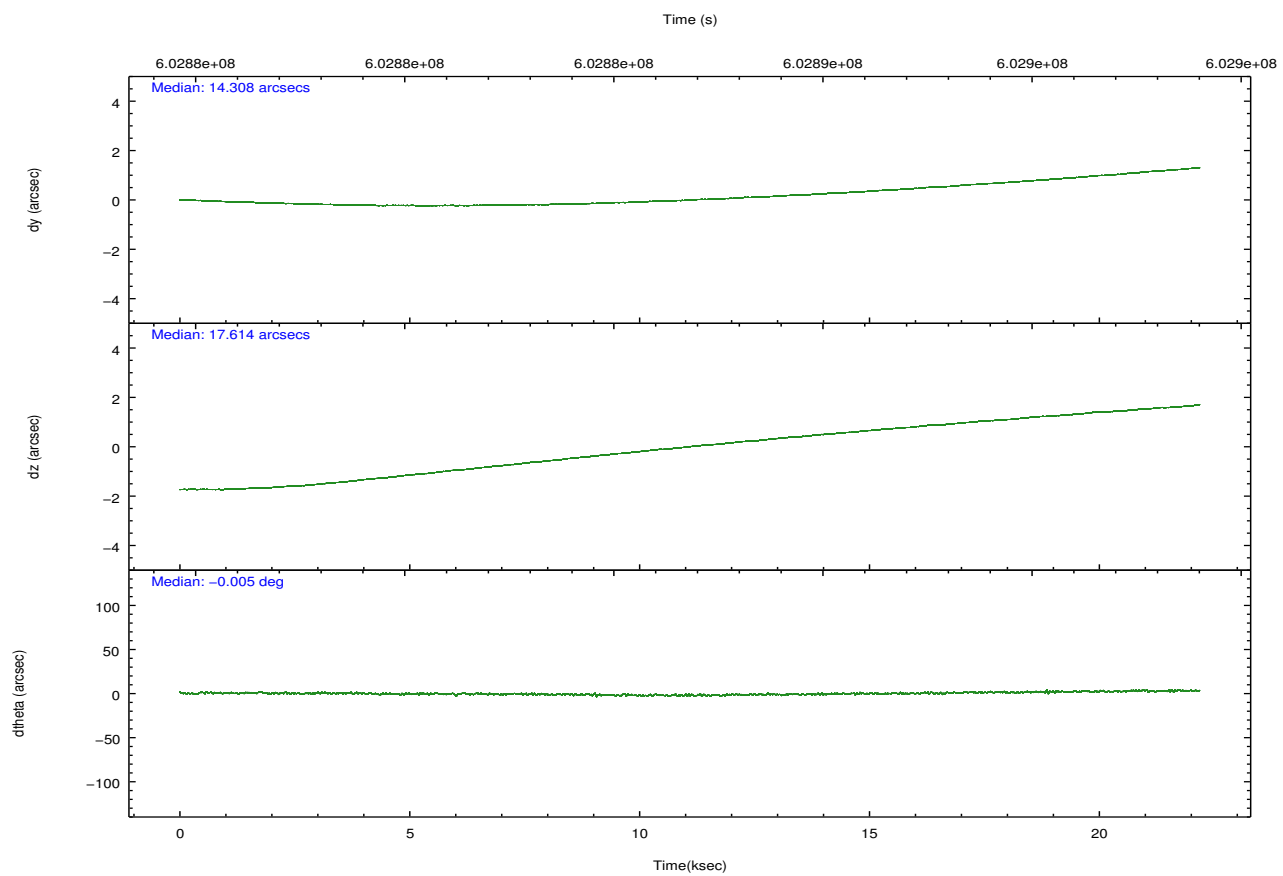
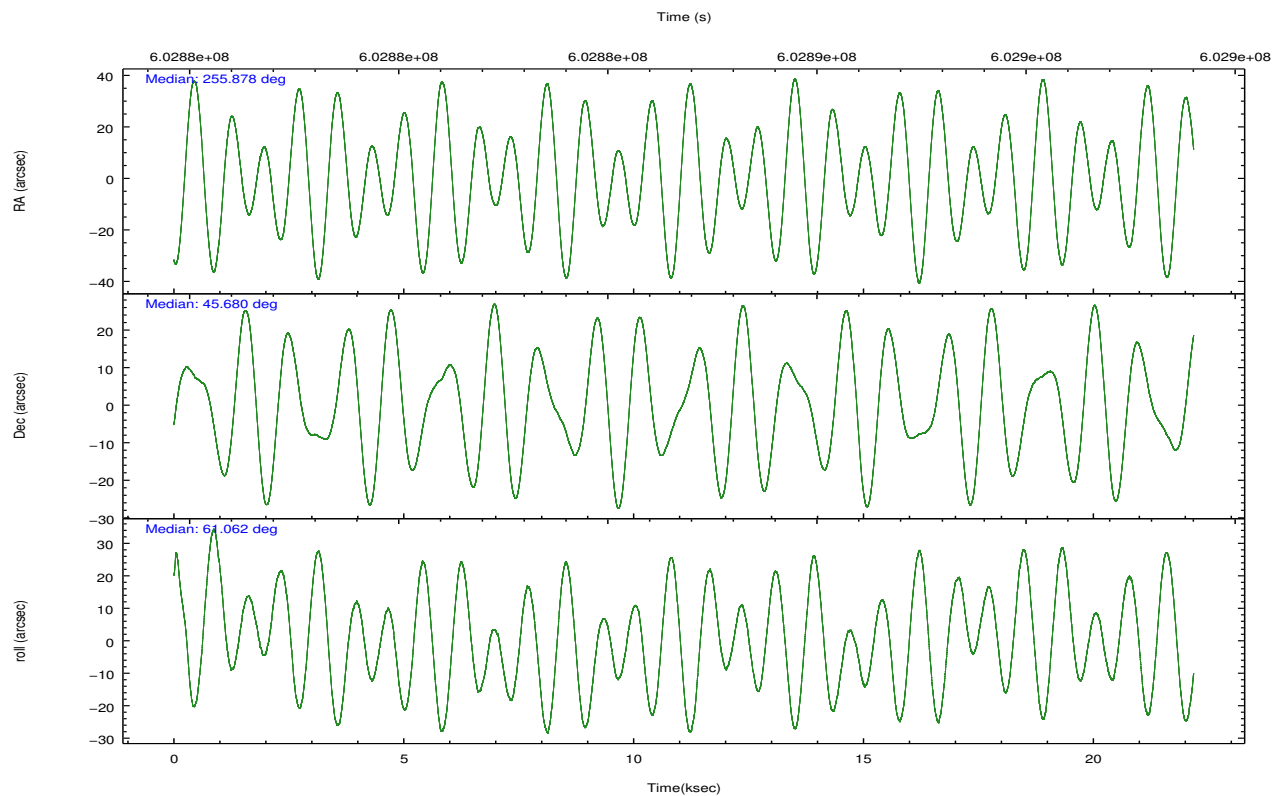
	segment 1	segment 2	segment 3
level 1 events	805611	802104	799026
rejected events	27057	27073	27199
rejected %	3%	3%	3%

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	255.880696	255.8779761130588			
[deg] Pointing Dec	45.651126	45.67994724254525			
[deg] Pointing Roll	60.997119	61.06640003816032			
[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)	602875907.184000	602874922.91457			
Observation start date	2017-02-07T17:30:38	2017-02-07T17:15:22			
[s] Observation end time (MET)	602897907.184000	602898568.12844			
Observation end date	2017-02-07T23:37:18	2017-02-07T23:49:28			

2.3 Aspect



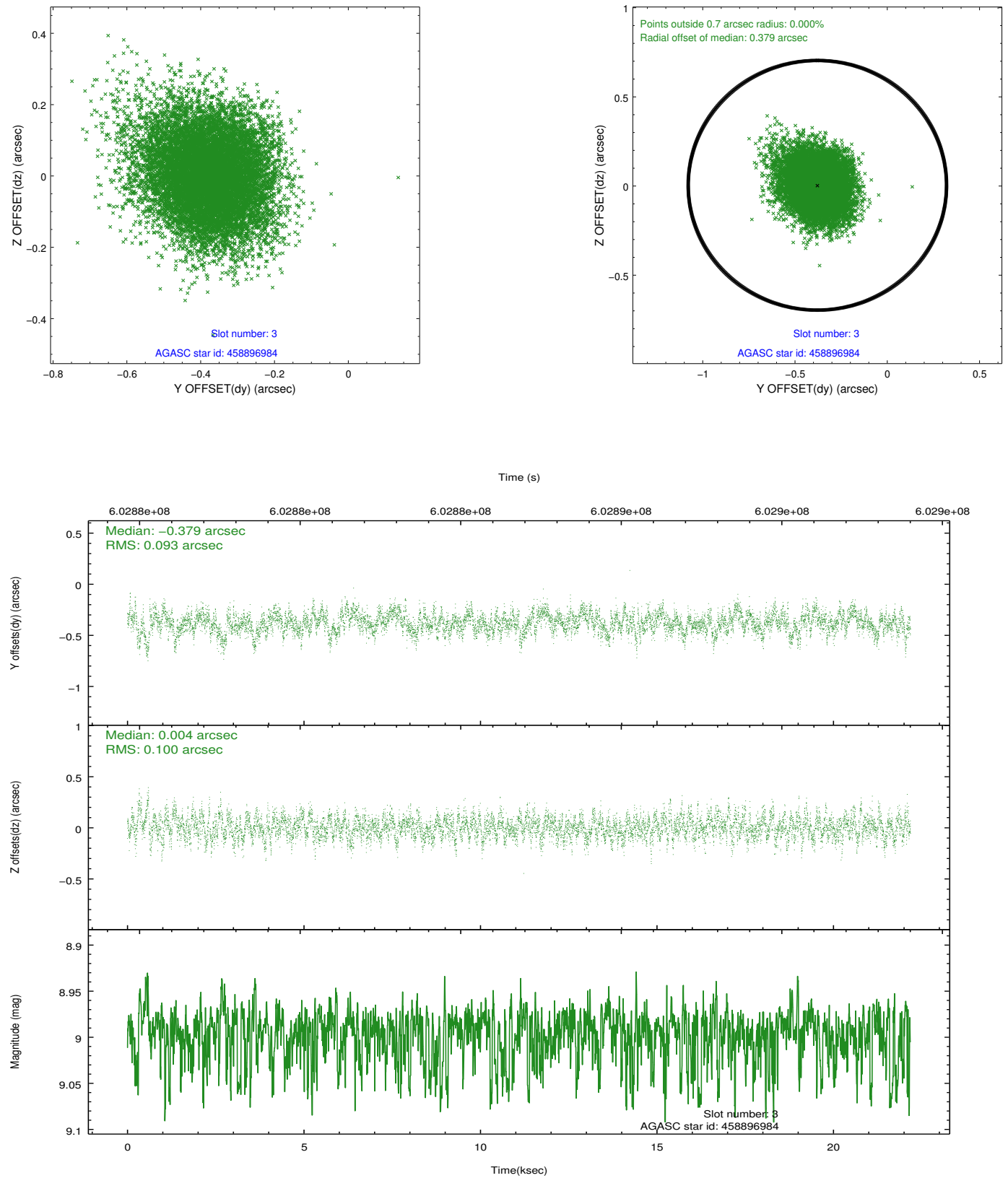


Slot Statistics

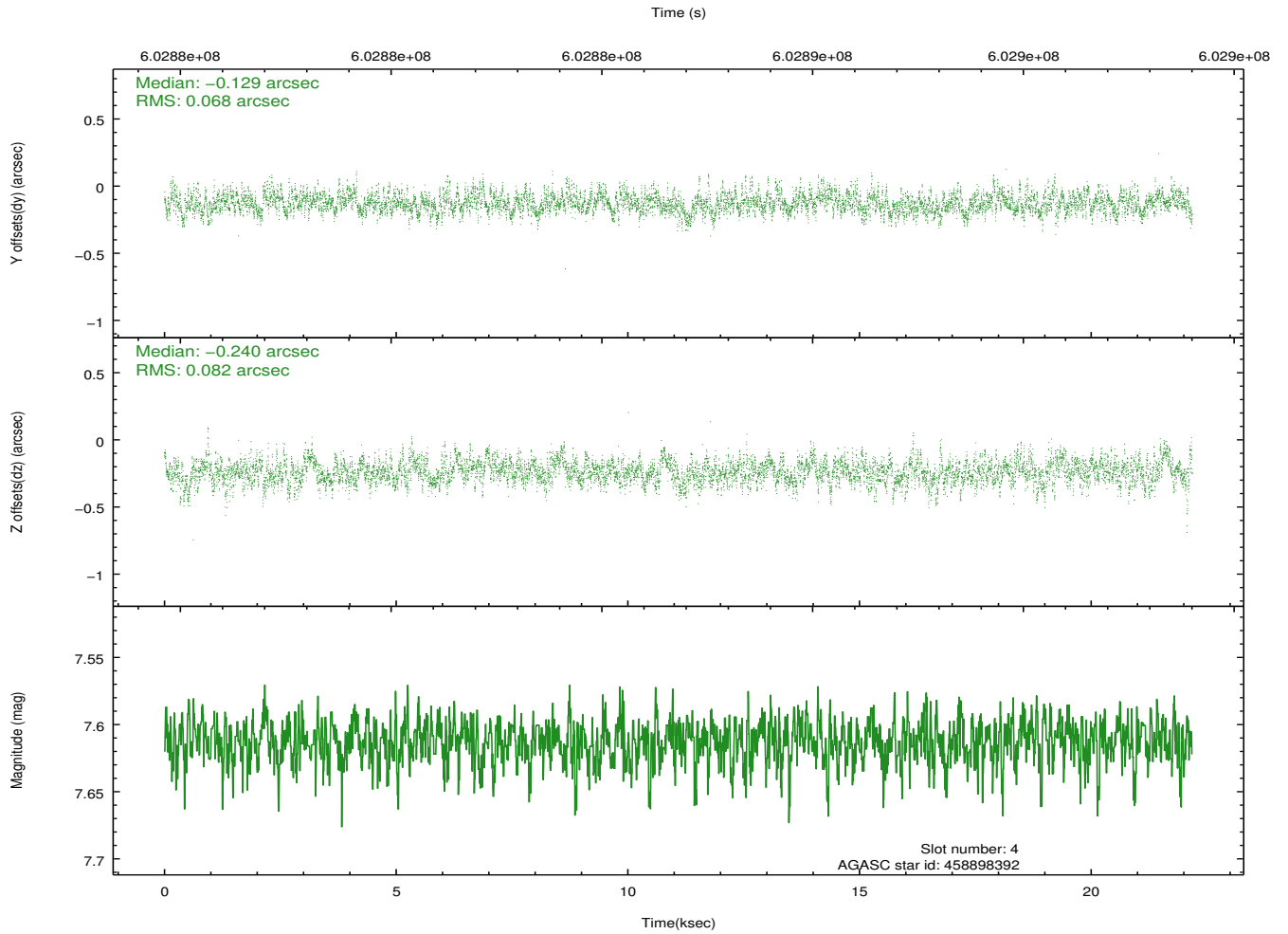
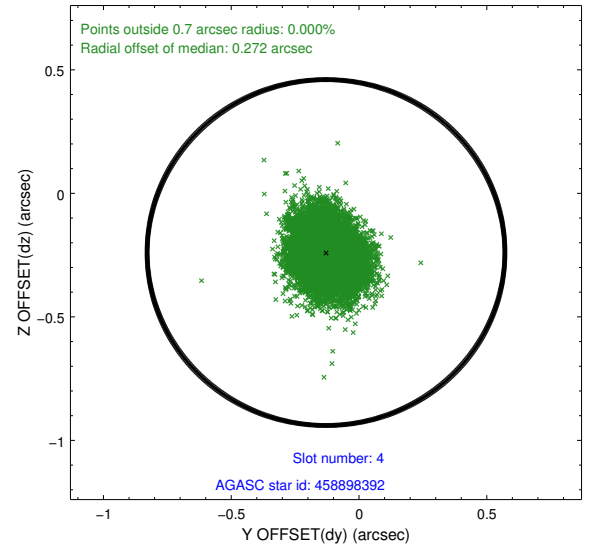
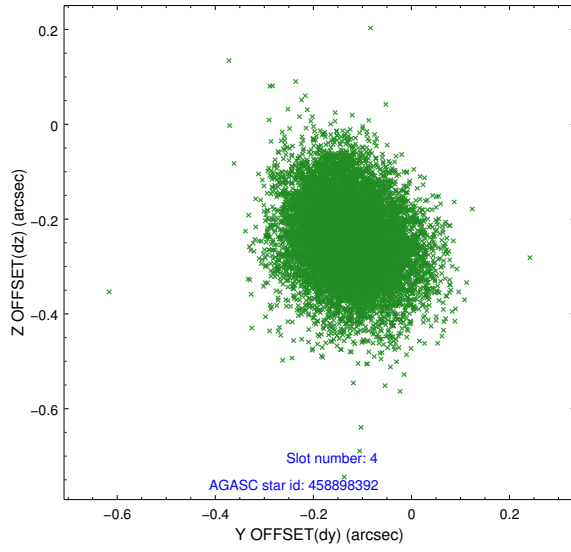
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.03	5410	-0.023	-0.202	0.026	0.045	0.000000	0.000000	-1168.99	-466.57
1	FID		HRC-S-2	7.00	5410	0.323	-0.118	0.009	0.027	0.000000	0.000000	1230.83	-459.12
2	FID		HRC-S-3	7.01	5411	0.087	0.017	0.027	0.048	0.000000	0.000000	-1171.41	563.10
3	GUIDE	used	458896984	8.99	10809	-0.379	0.004	0.144	0.237	256.338646	45.952153	1506.36	-475.42
4	GUIDE	used	458898392	7.61	10815	-0.129	-0.240	0.113	0.185	255.120167	45.778808	-515.88	1899.71
5	GUIDE	used	458900480	7.35	10820	0.272	0.159	0.110	0.178	255.979899	45.449218	-513.55	-571.24
6	GUIDE	used	458903928	7.97	10820	-0.108	-0.297	0.105	0.179	256.022074	46.089865	1549.61	455.26
7	GUIDE	used	458904480	8.94	10810	0.339	0.370	0.134	0.220	256.212390	45.224287	-933.31	-1478.92

2.4 Star Slots

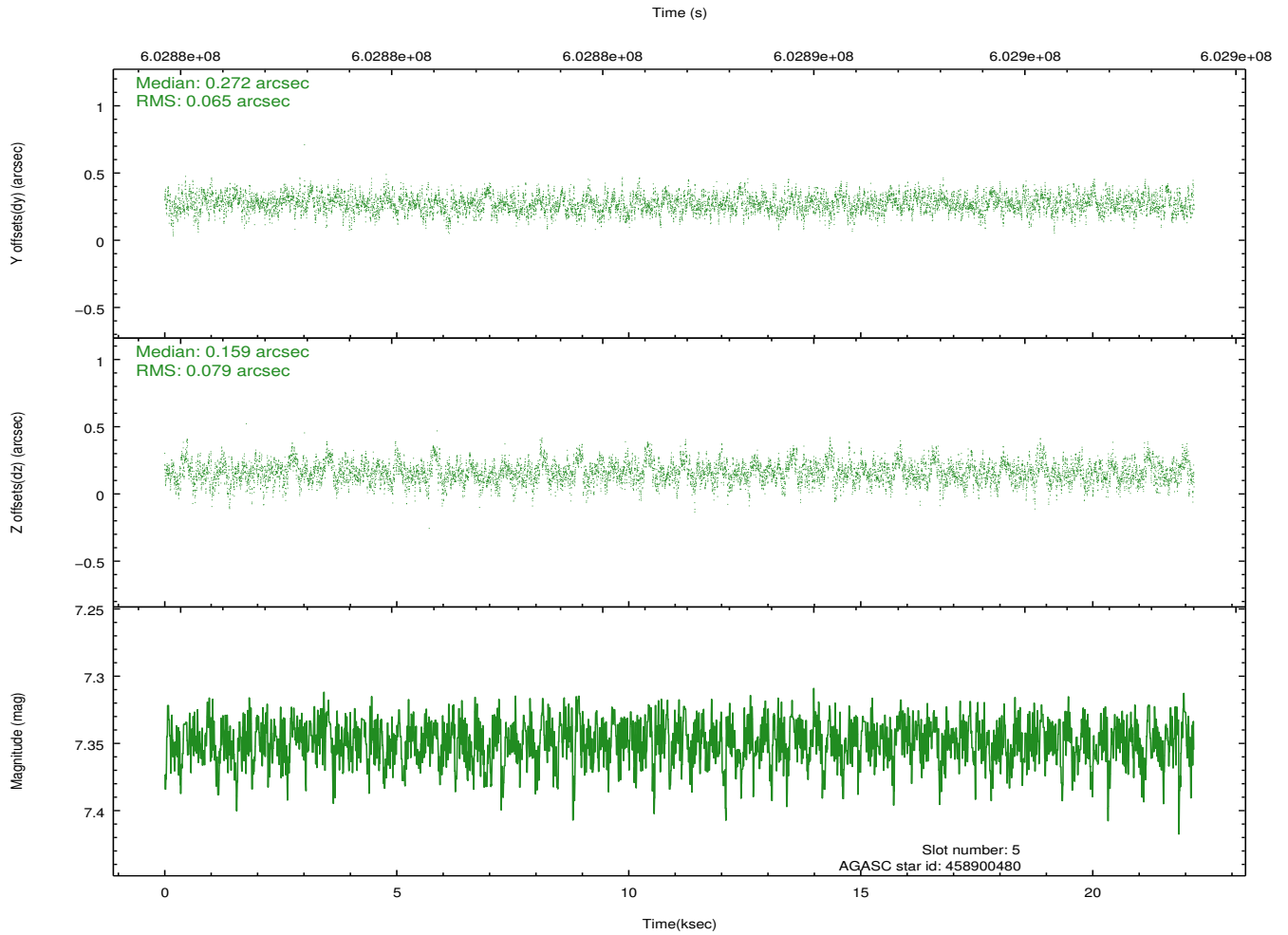
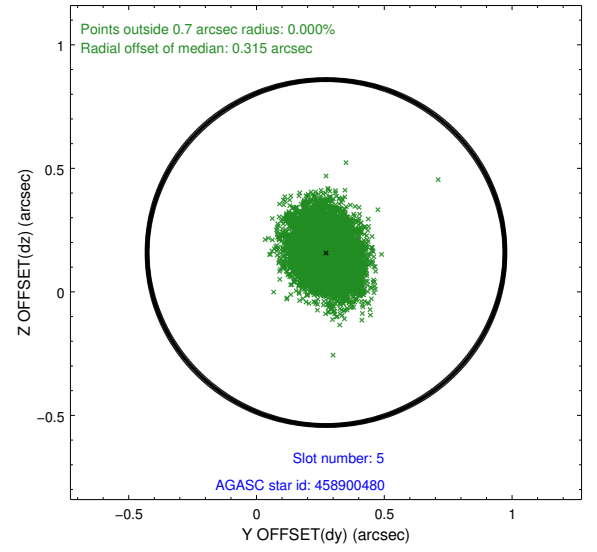
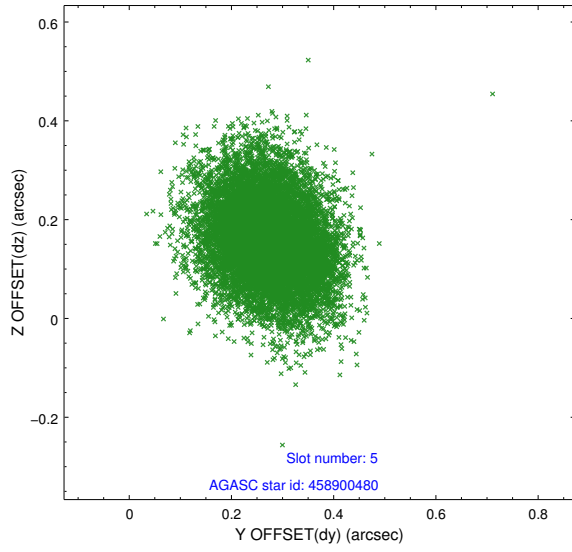
2.4.1 Slot 3



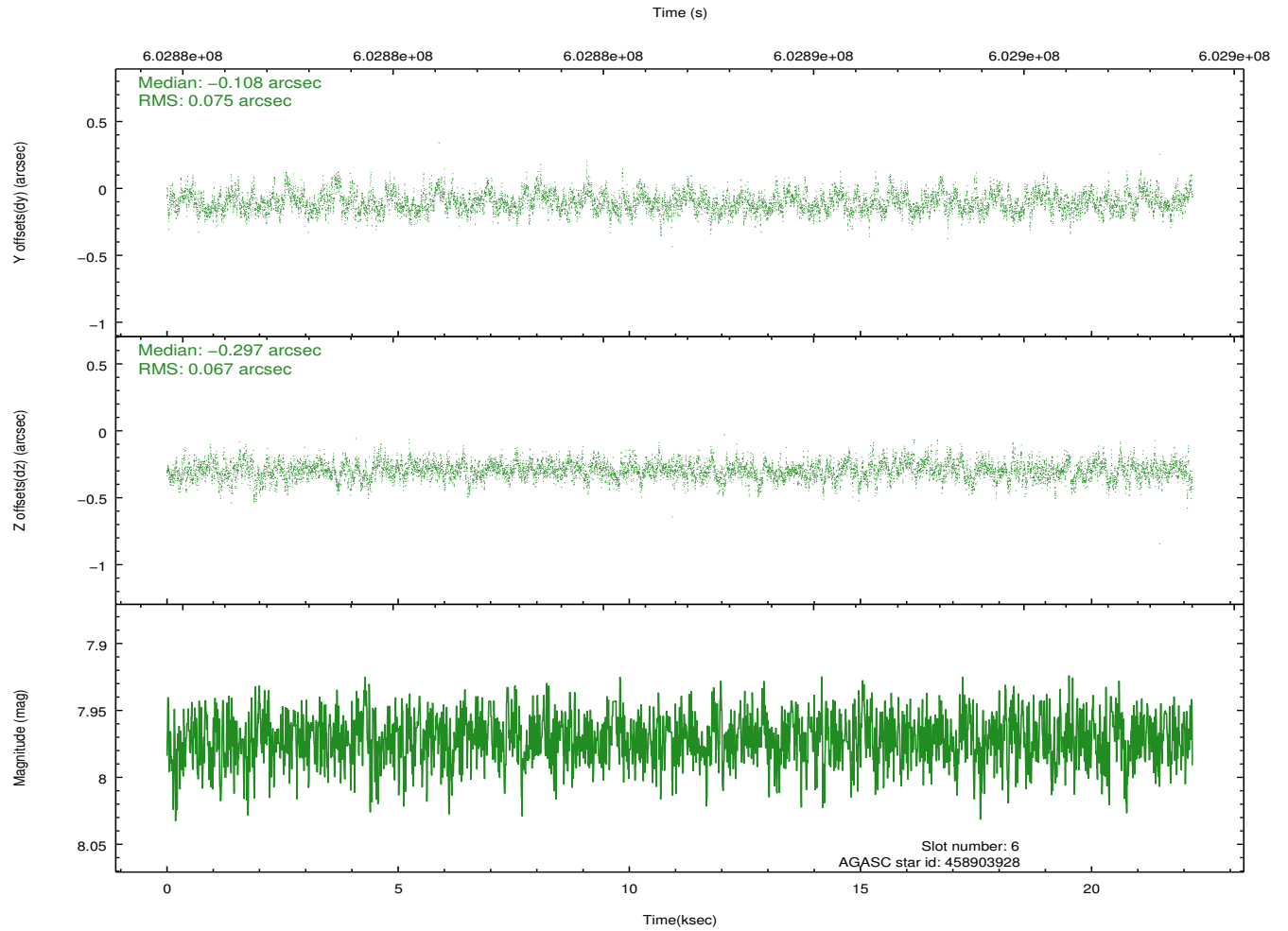
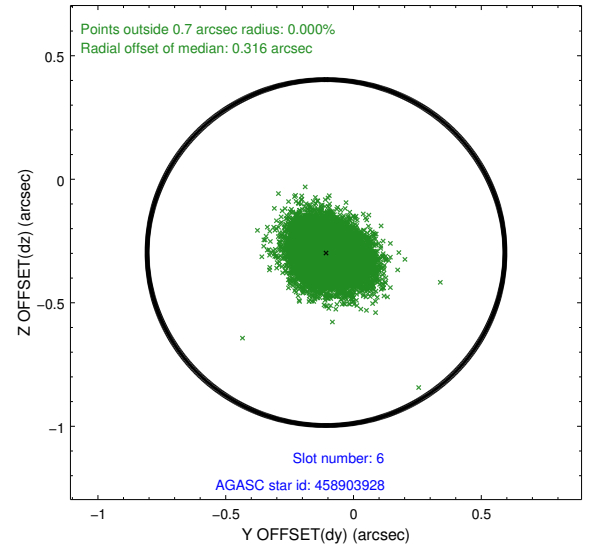
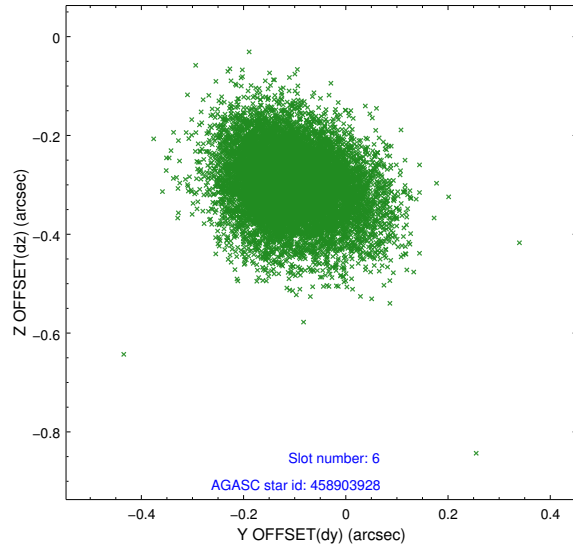
2.4.2 Slot 4



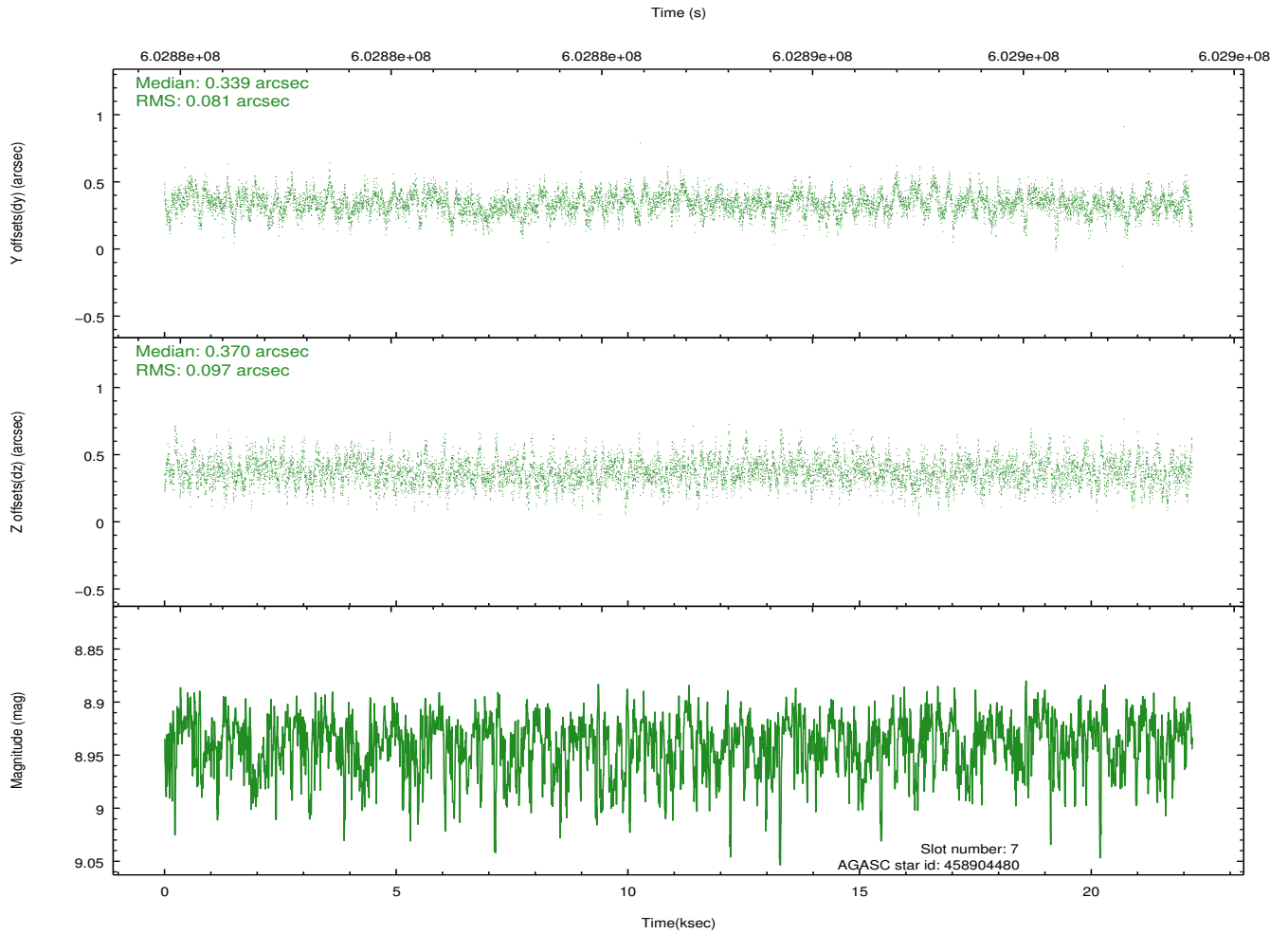
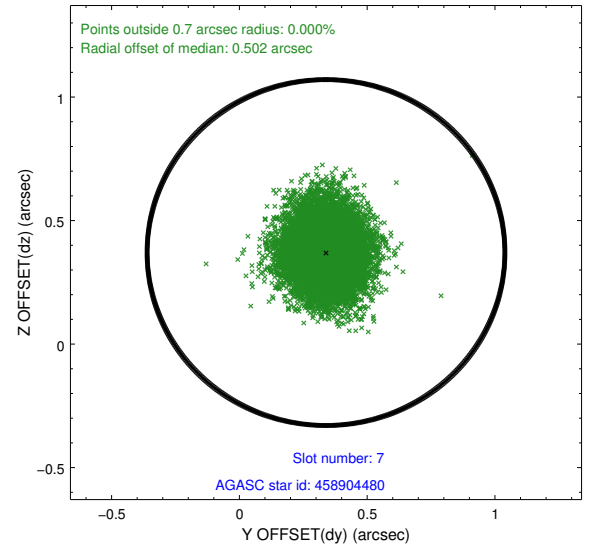
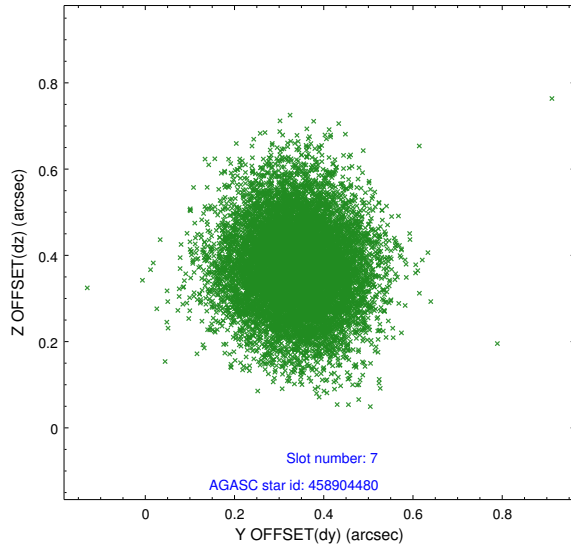
2.4.3 Slot 5



2.4.4 Slot 6

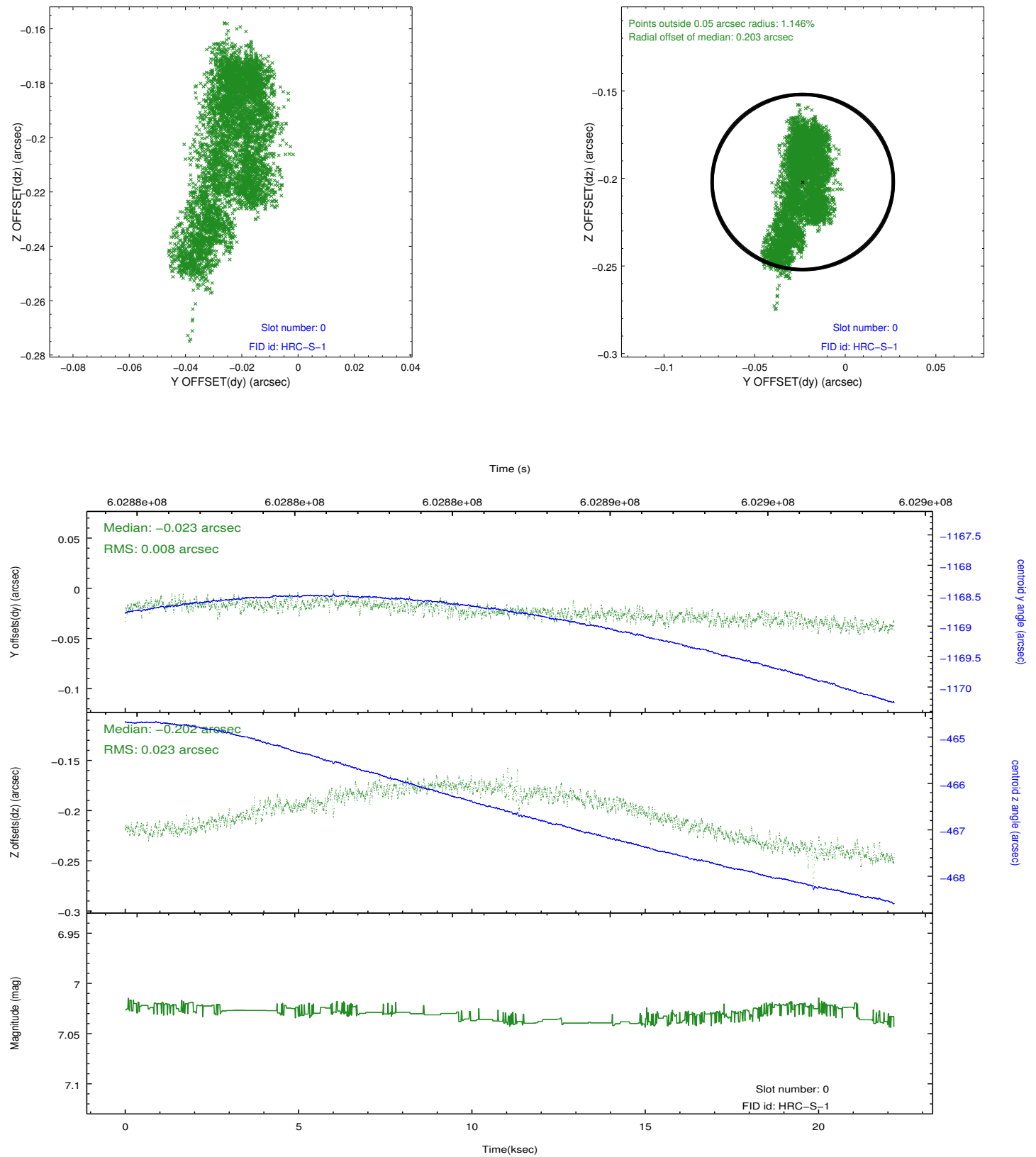


2.4.5 Slot 7

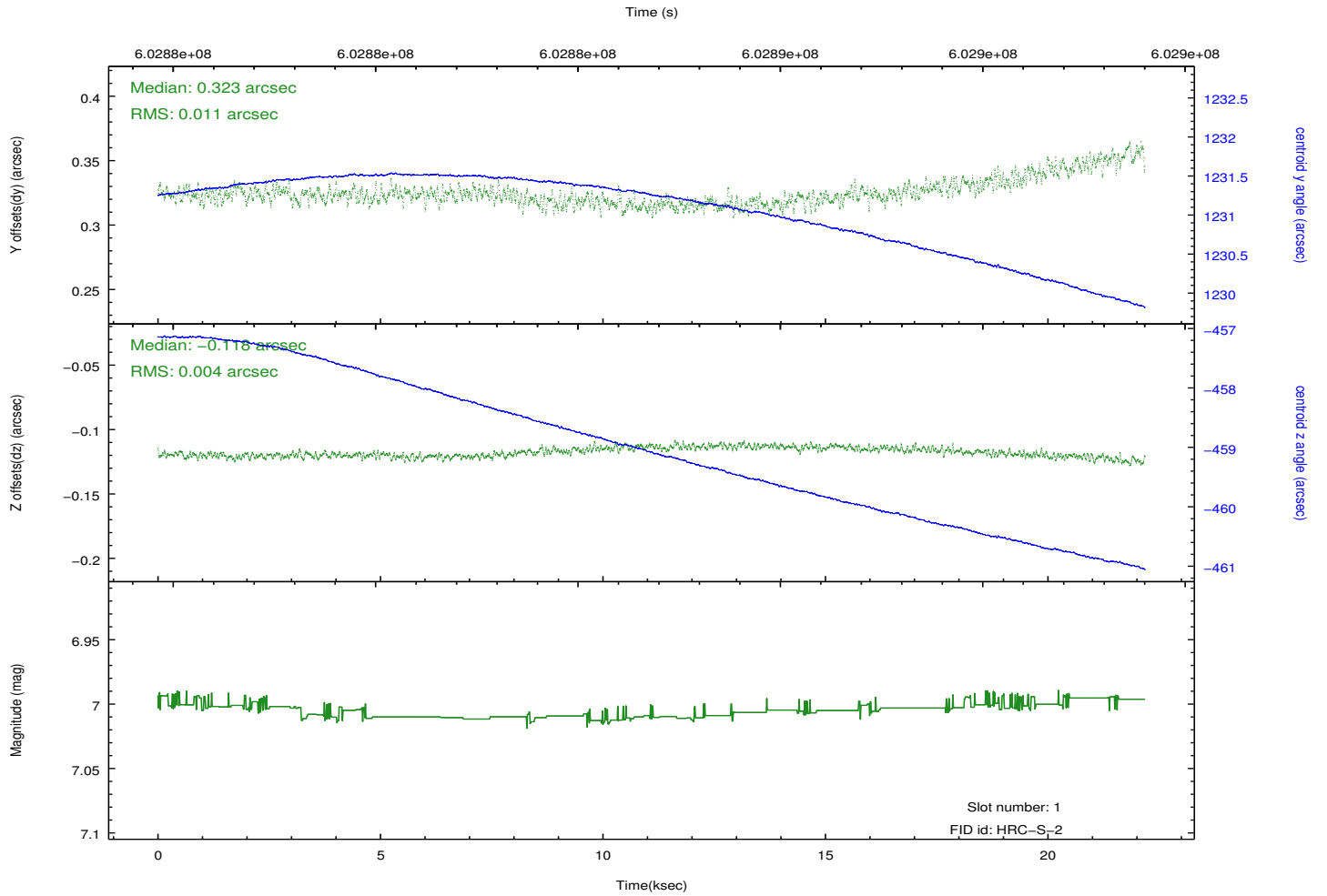
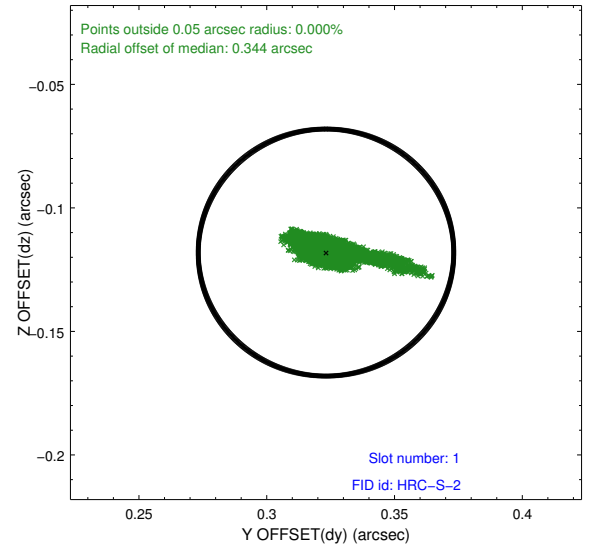
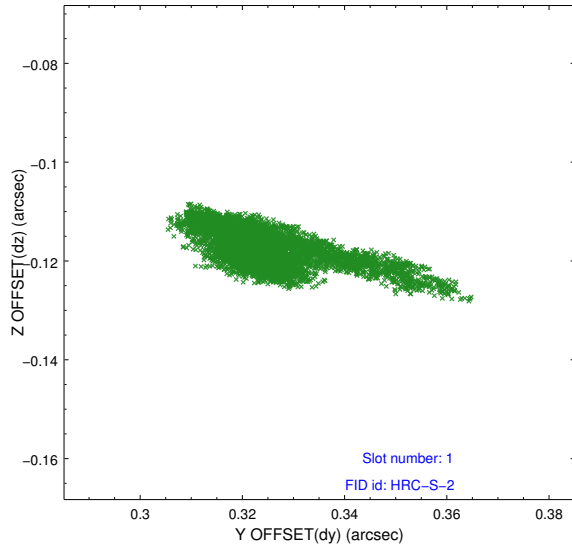


2.5 FID Slots

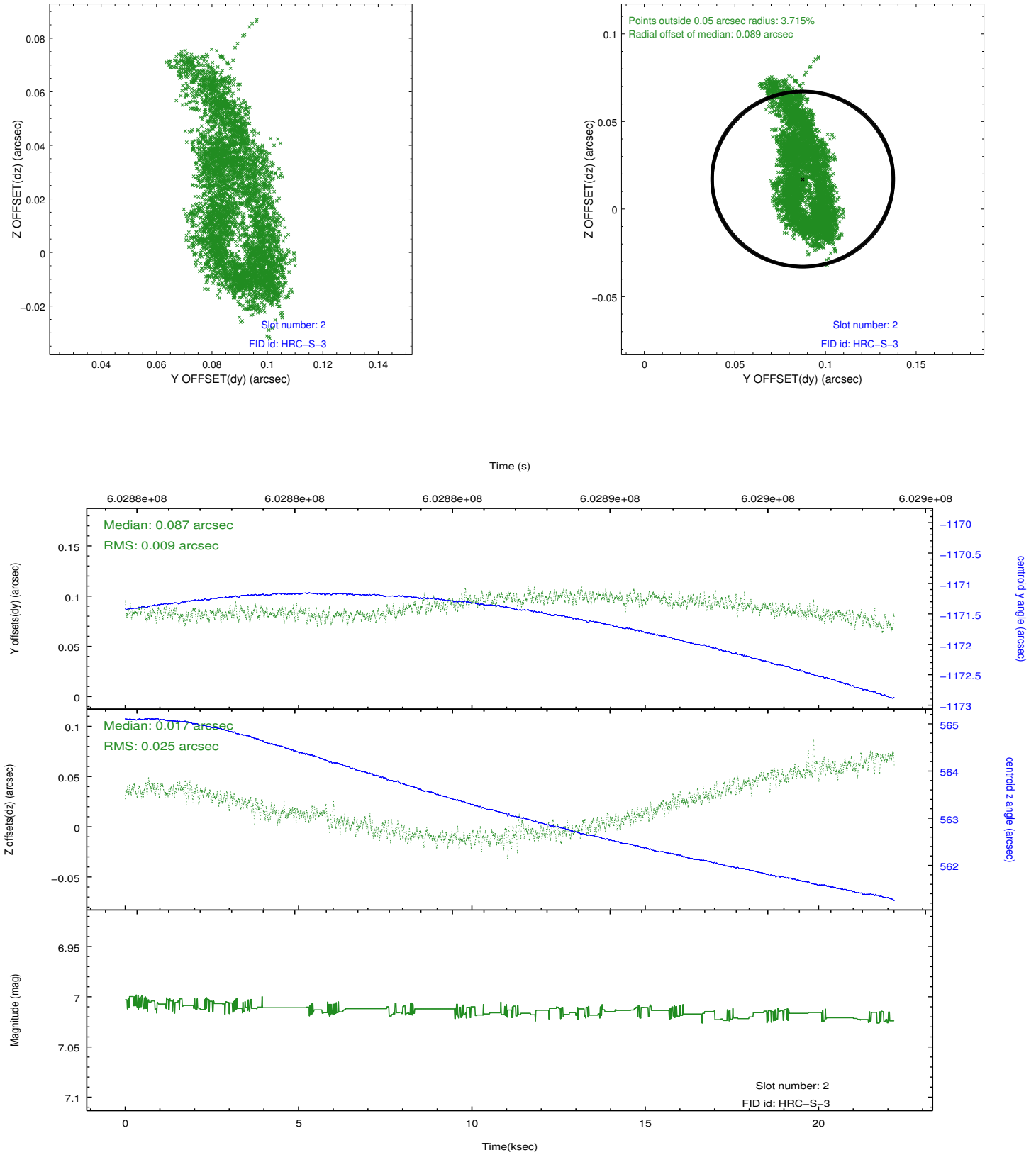
2.5.1 Slot 0



2.5.2 Slot 1

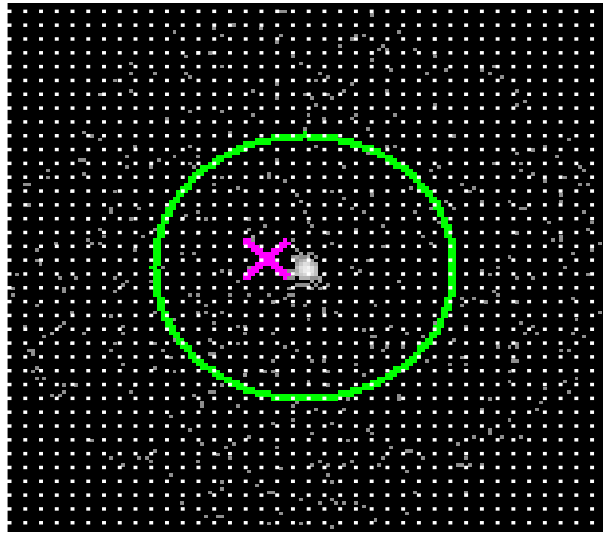


2.5.3 Slot 2

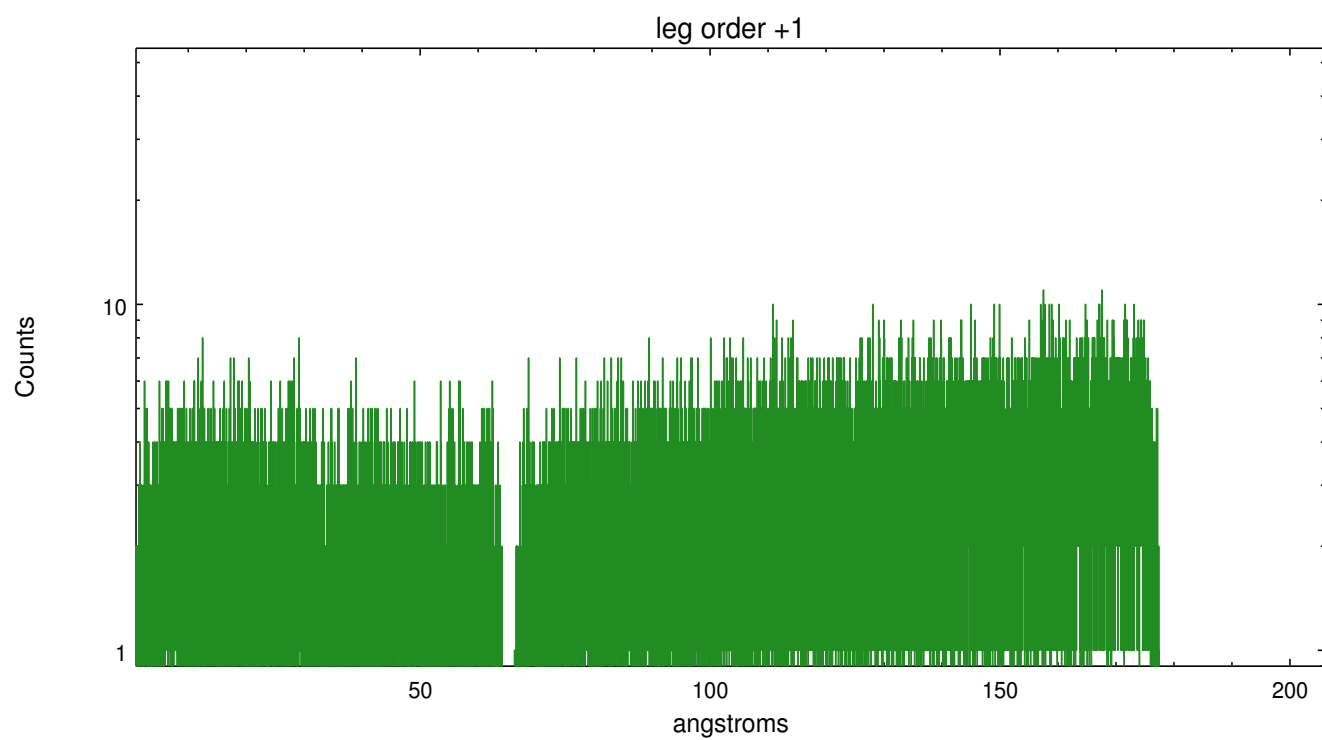
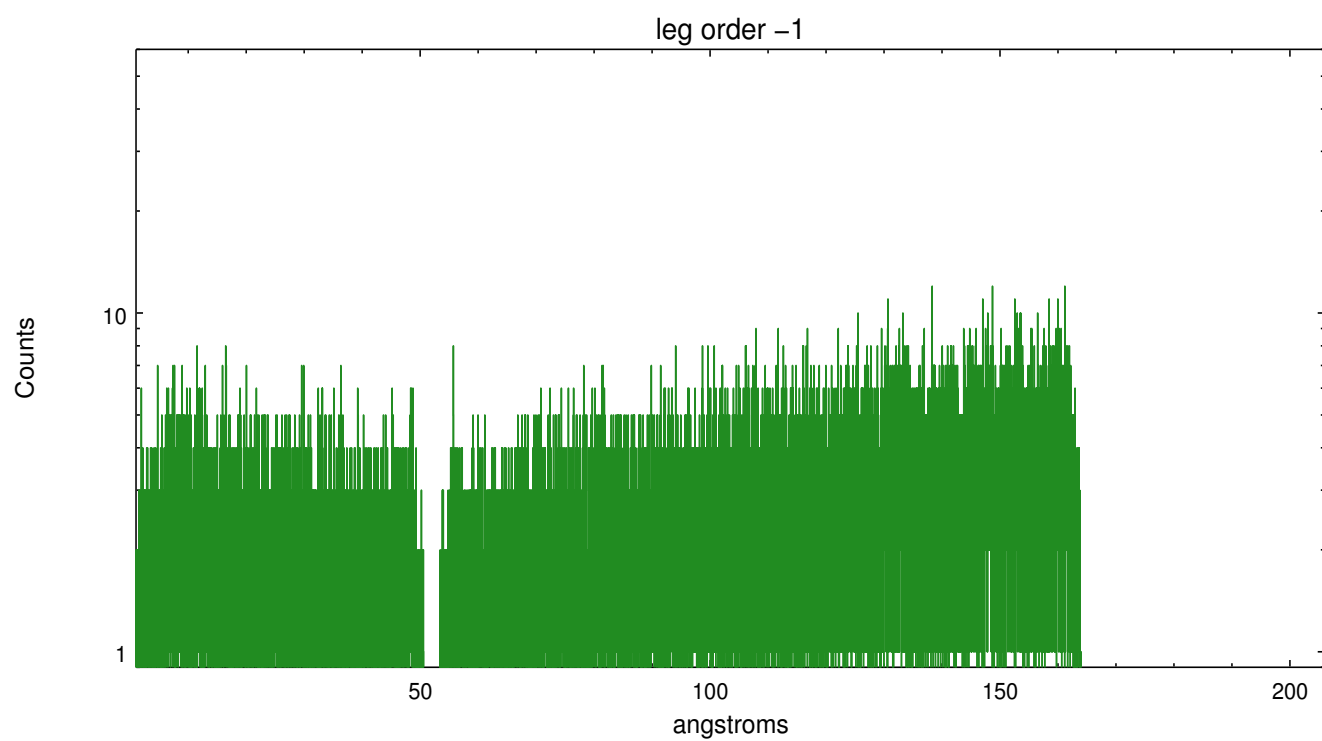


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.02.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.181770034432

A.2 Comments