

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 16688 - L2 Version 1
Chandra X-Ray Center

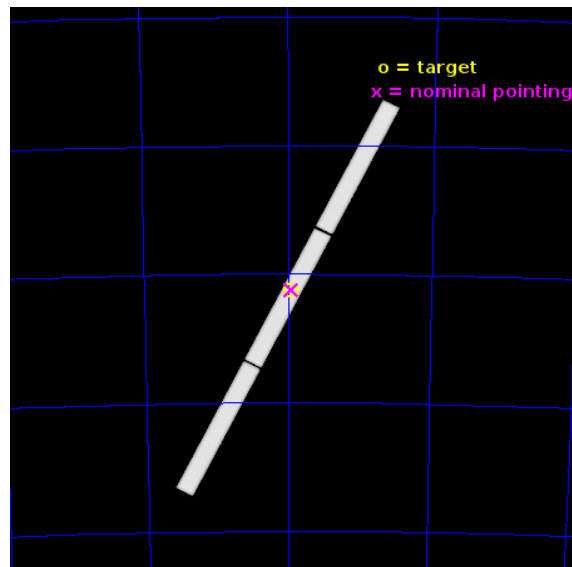
L2 Processing Date : Nov 23 2015

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

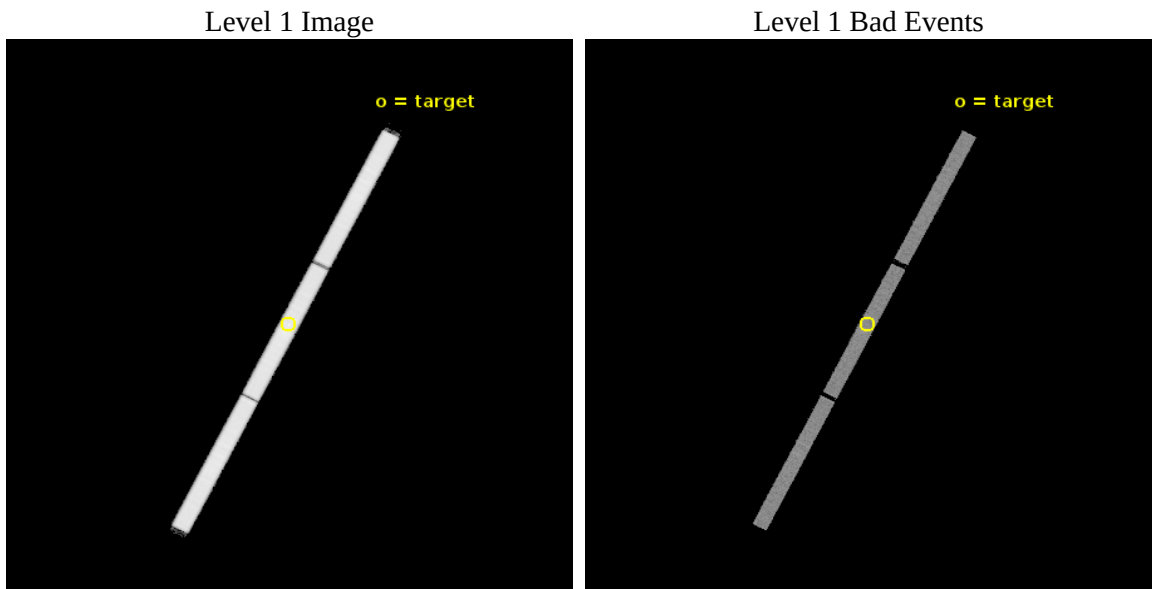
seq_num	300332	Sequence number
obs_id	16688	Observation id
title	The Elusive Soft Emission from Hard X-ray Symbiotic System RT Cru	
observer	Dr. Margarita Karovska	Principal investigator
object	RT Cru	Source name
ra_targ	188.72375	Observer's specified target RA [deg]
dec_targ	-64.565556	Observer's specified target Dec [deg]
ra_nom	188.71850929827	Nominal RA [deg]
dec_nom	-64.561109277783	Nominal Dec [deg]
roll_nom	117.06258391356	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25339.282675743	[s]
livetime	25154.635865602	Ontime multiplied by DTCOR
l2events	1612214	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	25200.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	25339.282685757	[s]
caldbver	4.6.10a	 	l1events	2216352	Number of level 1 events
date	2015-11-23T18:40:56	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32702.70, 32642.62)	src1a sky pixel position

2.1.3 Events

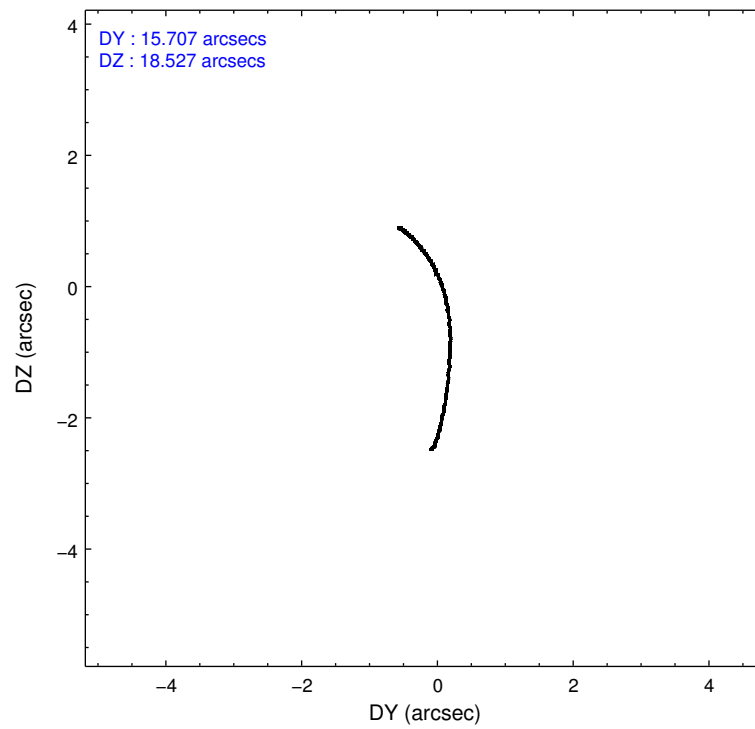
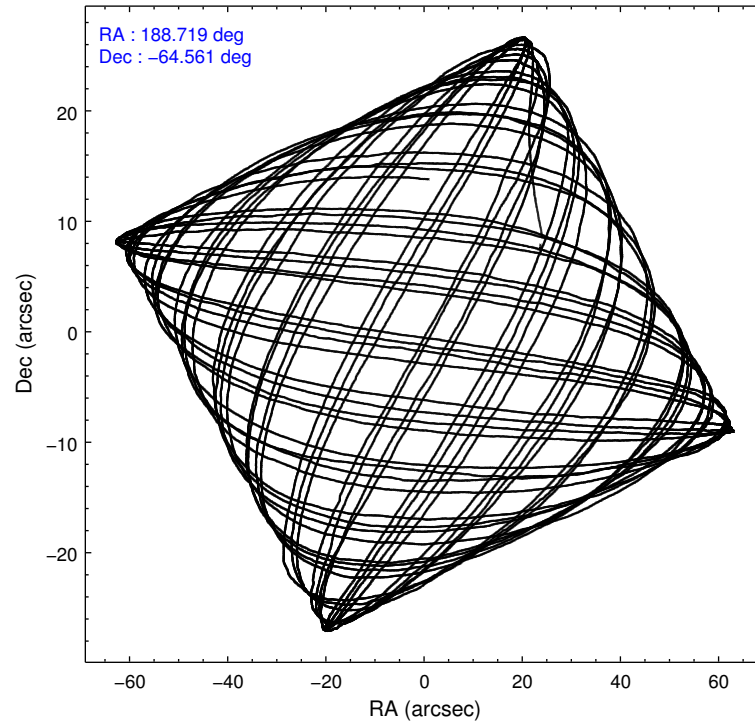
Level 1 Events

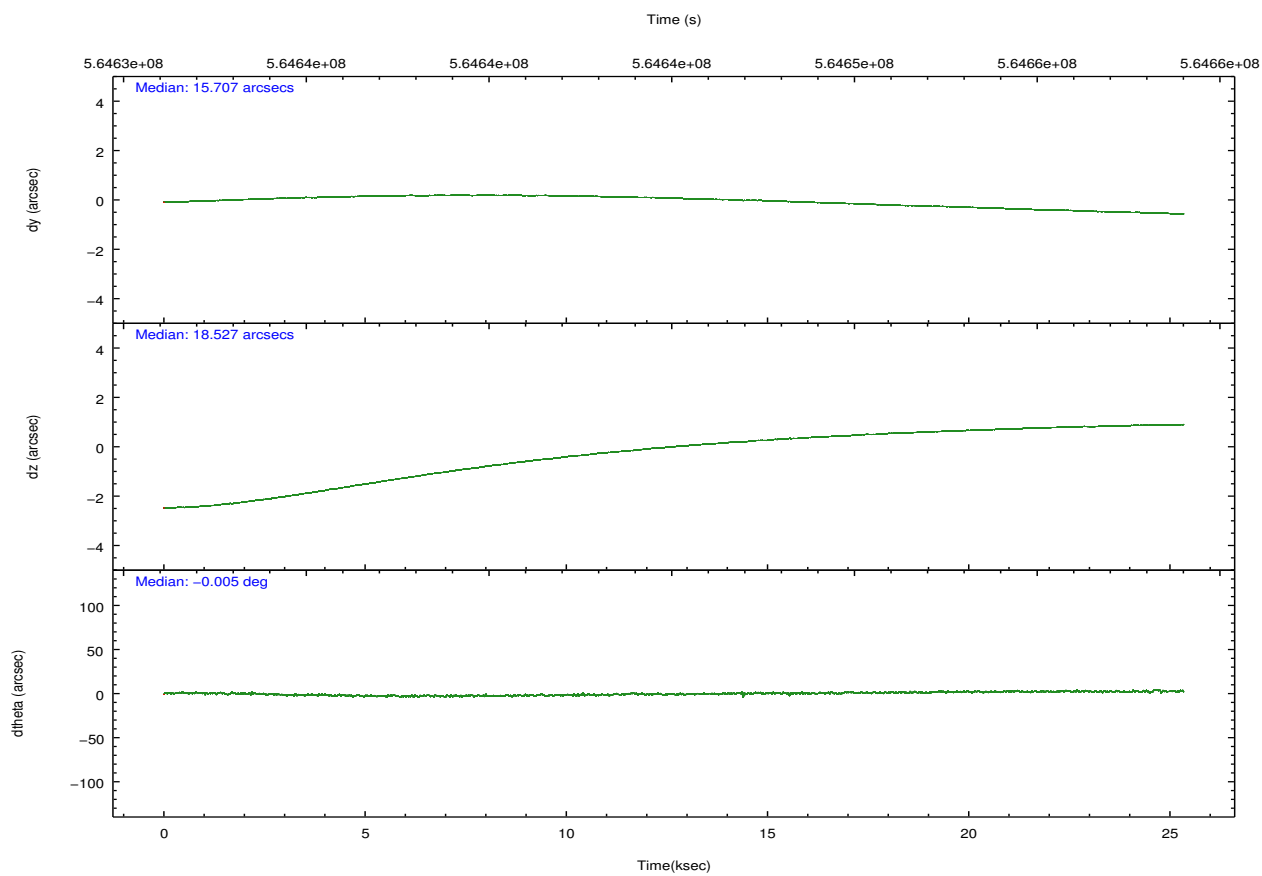
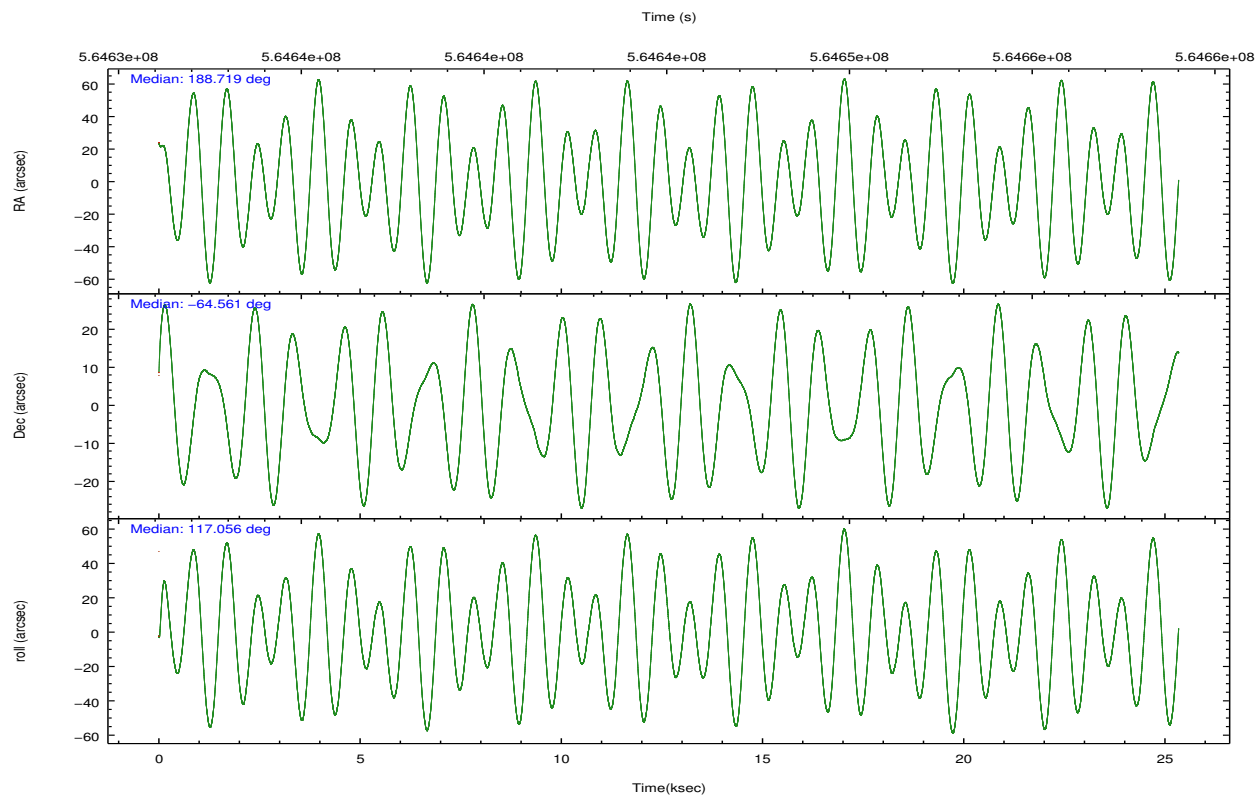
	segment 1	segment 2	segment 3
level 1 events	741445	735342	739565
rejected events	57367	56349	56427
rejected %	7%	7%	7%

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	188.776709	188.7185092982716			
[deg] Pointing Dec	-64.575656	-64.5611092777833			
[deg] Pointing Roll	117.047824	117.0625839135614			
[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)	564632526.184000	564631281.59925			
Observation start date	2015-11-23T02:20:58	2015-11-23T02:01:21			
[s] Observation end time (MET)	564657726.184000	564658702.9133			
Observation end date	2015-11-23T09:20:58	2015-11-23T09:38:22			

2.3 Aspect



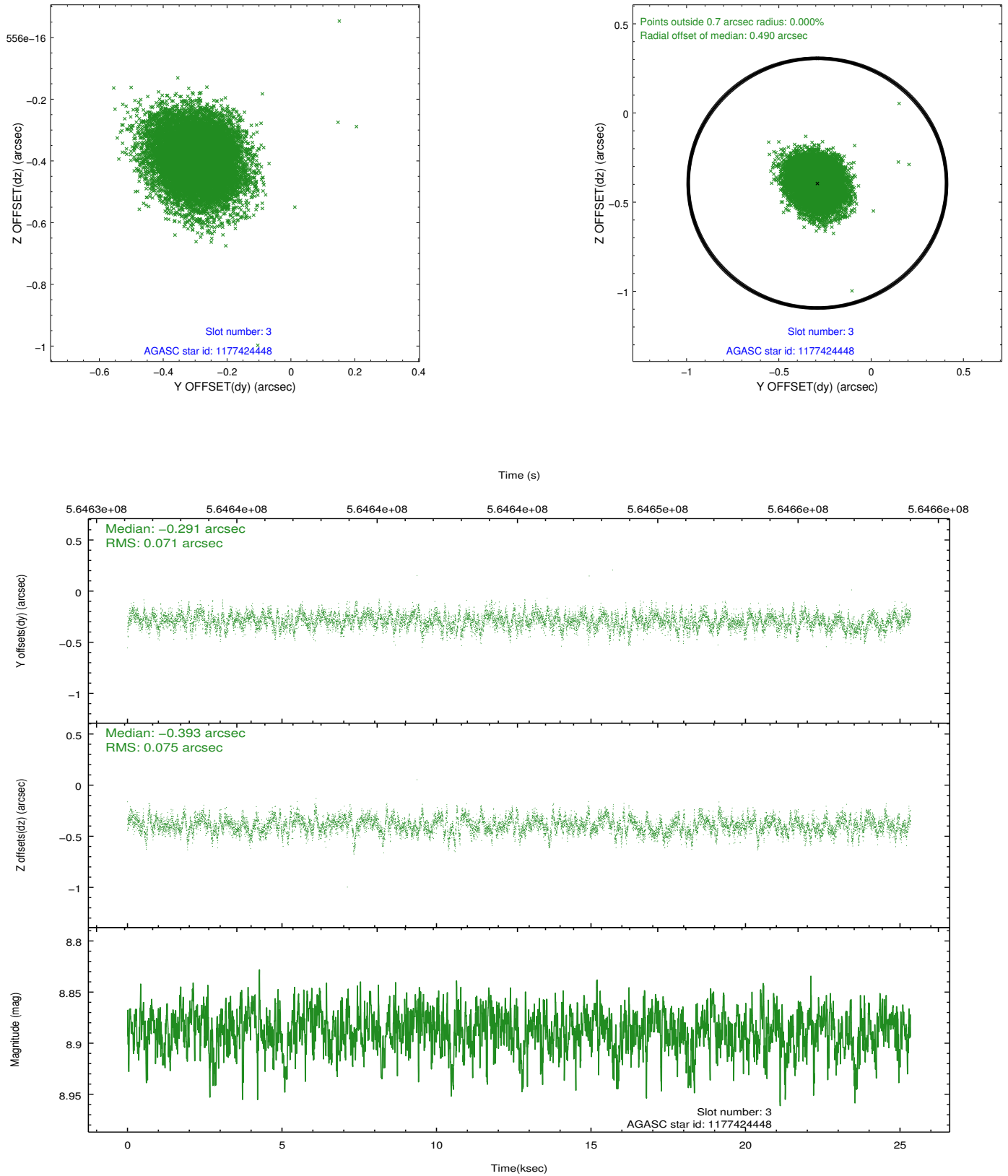


Slot Statistics

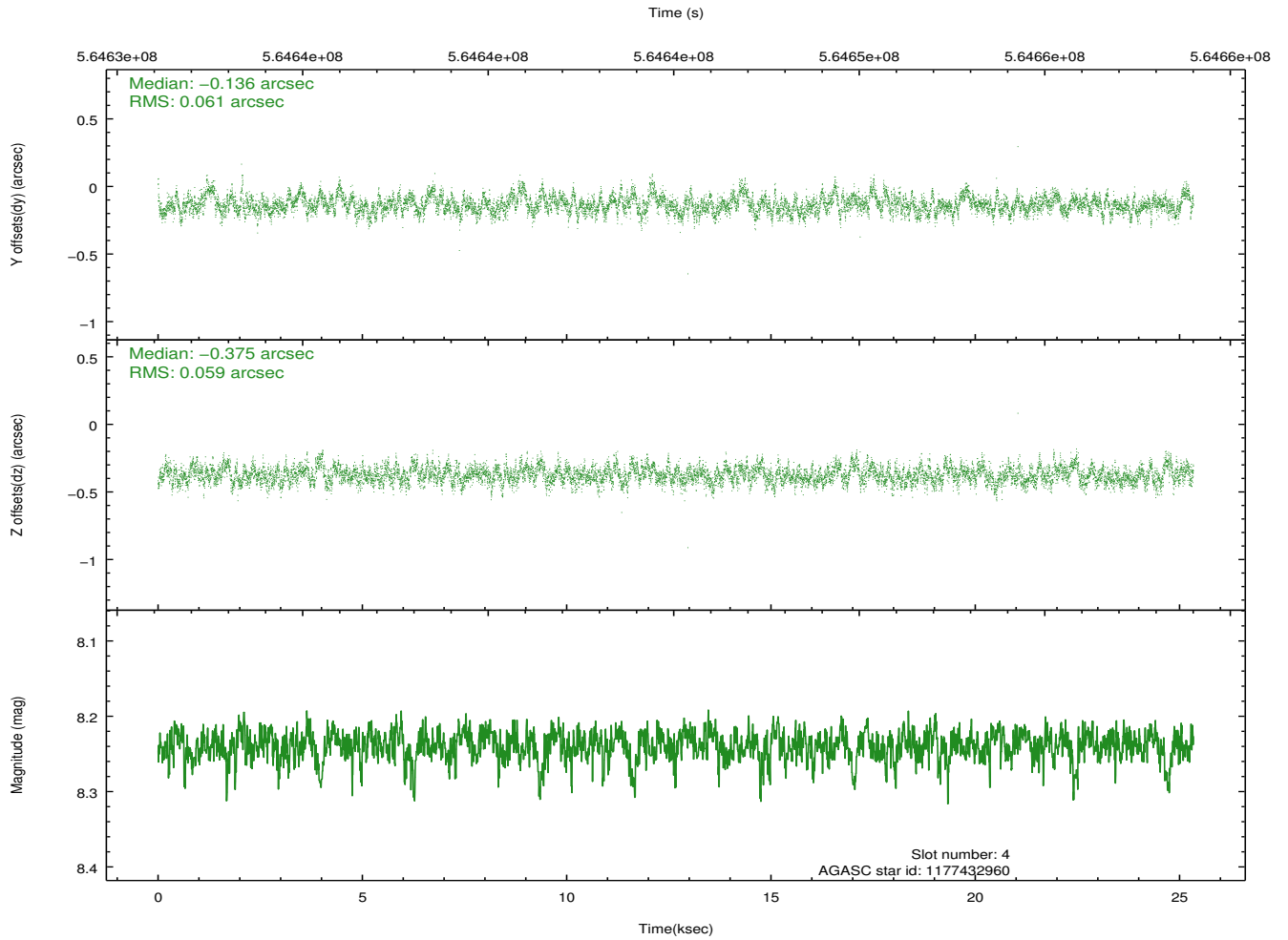
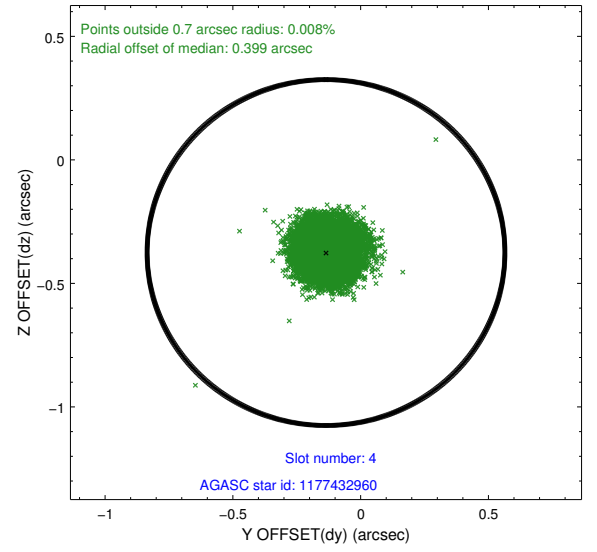
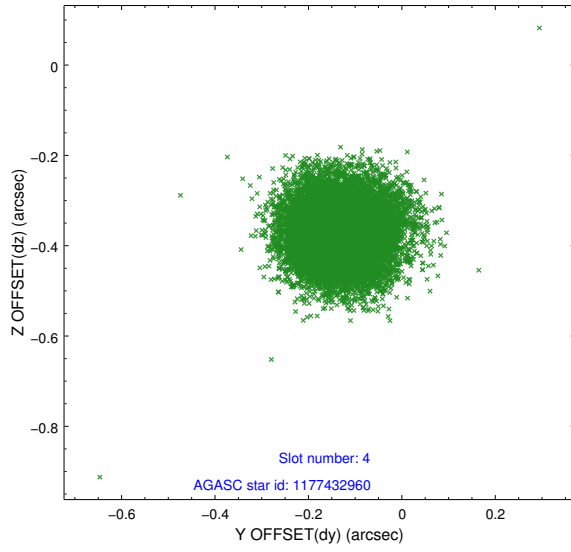
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.03	6181	-0.030	-0.228	0.034	0.048	0.000000	0.000000	-1170.14	-467.23
1	FID		HRC-S-2	7.00	6181	0.350	-0.125	0.016	0.026	0.000000	0.000000	1229.73	-459.78
2	FID		HRC-S-3	7.02	6181	0.071	0.051	0.031	0.046	0.000000	0.000000	-1172.59	562.49
3	GUIDE	used	1177424448	8.89	12359	-0.291	-0.393	0.109	0.178	187.374397	-64.183371	2235.46	1326.89
4	GUIDE	used	1177432960	8.24	12355	-0.136	-0.375	0.090	0.147	187.860990	-64.880924	-351.53	1750.53
5	GUIDE	used	1179126976	8.63	12357	0.329	0.849	0.107	0.170	190.268902	-64.540566	-961.04	-2100.52
6	GUIDE	used	1179131192	9.09	12355	0.036	-0.107	0.124	0.210	188.912026	-65.278046	-2344.65	969.13
7	GUIDE	used	1179128056	7.90	12359	0.058	0.023	0.086	0.138	189.145049	-64.556116	-197.86	-538.36

2.4 Star Slots

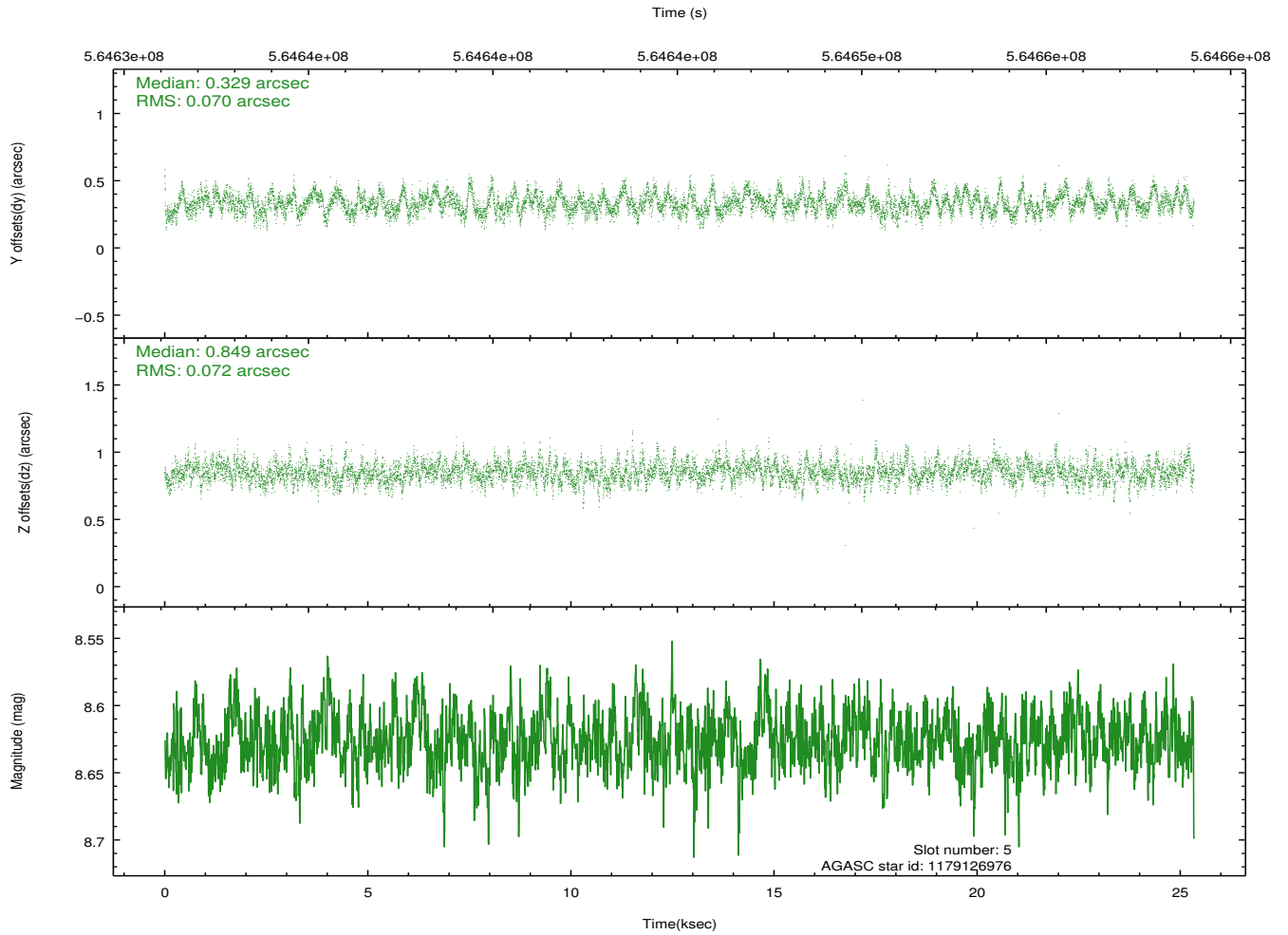
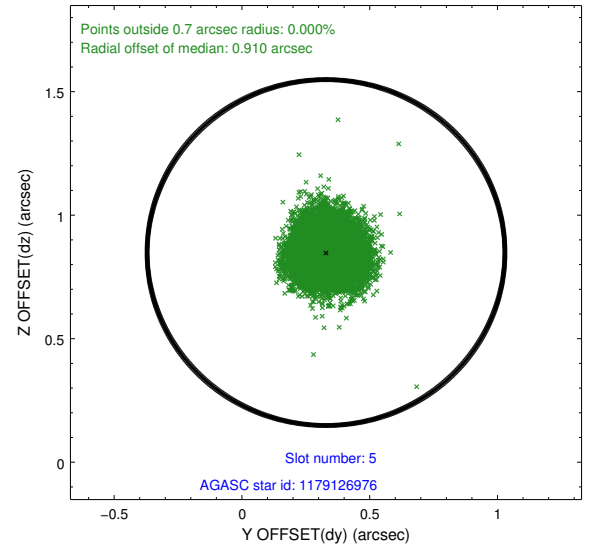
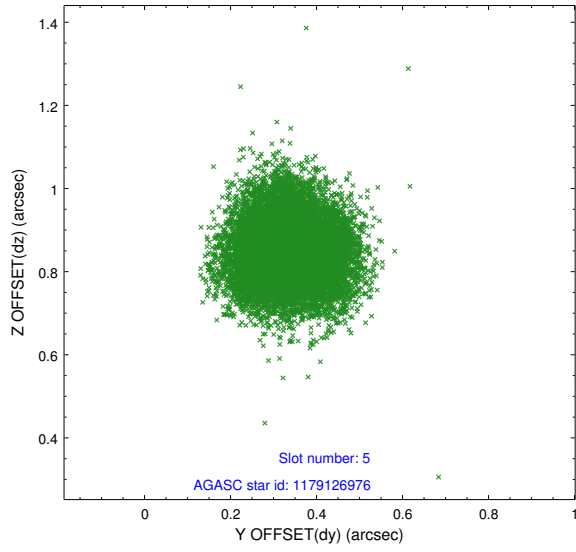
2.4.1 Slot 3



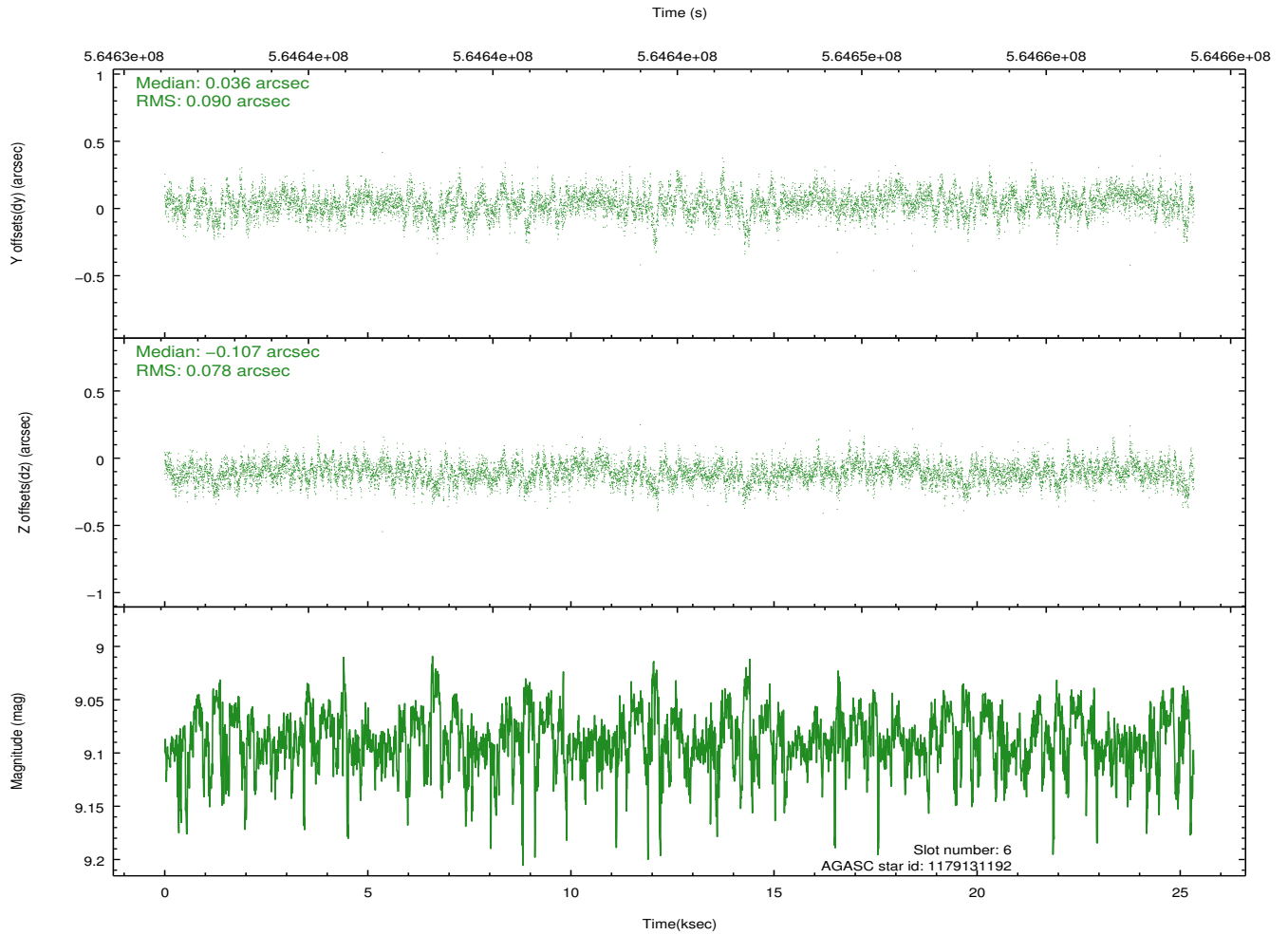
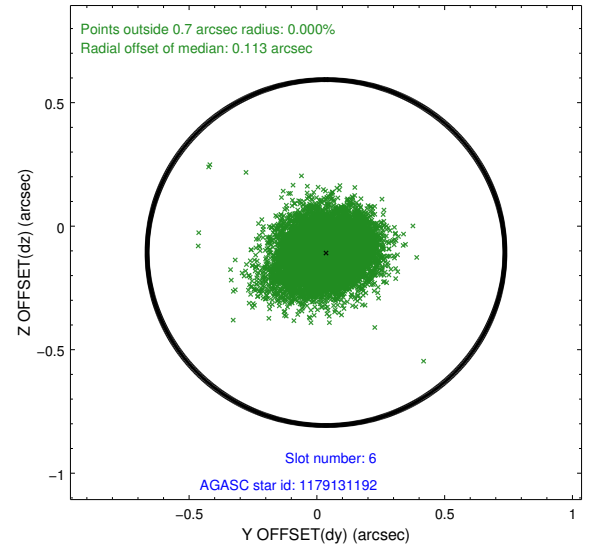
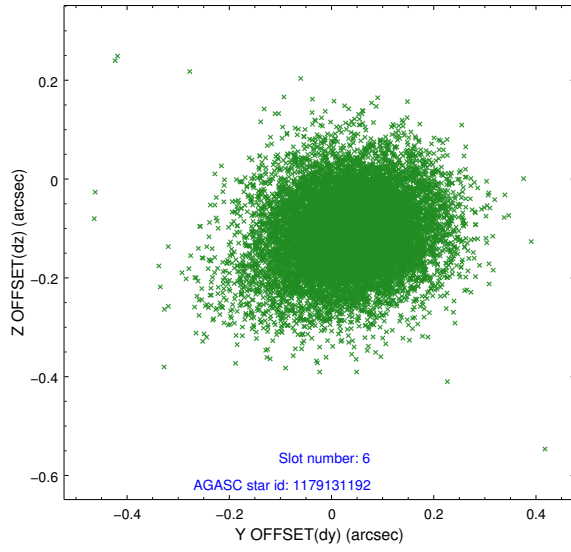
2.4.2 Slot 4



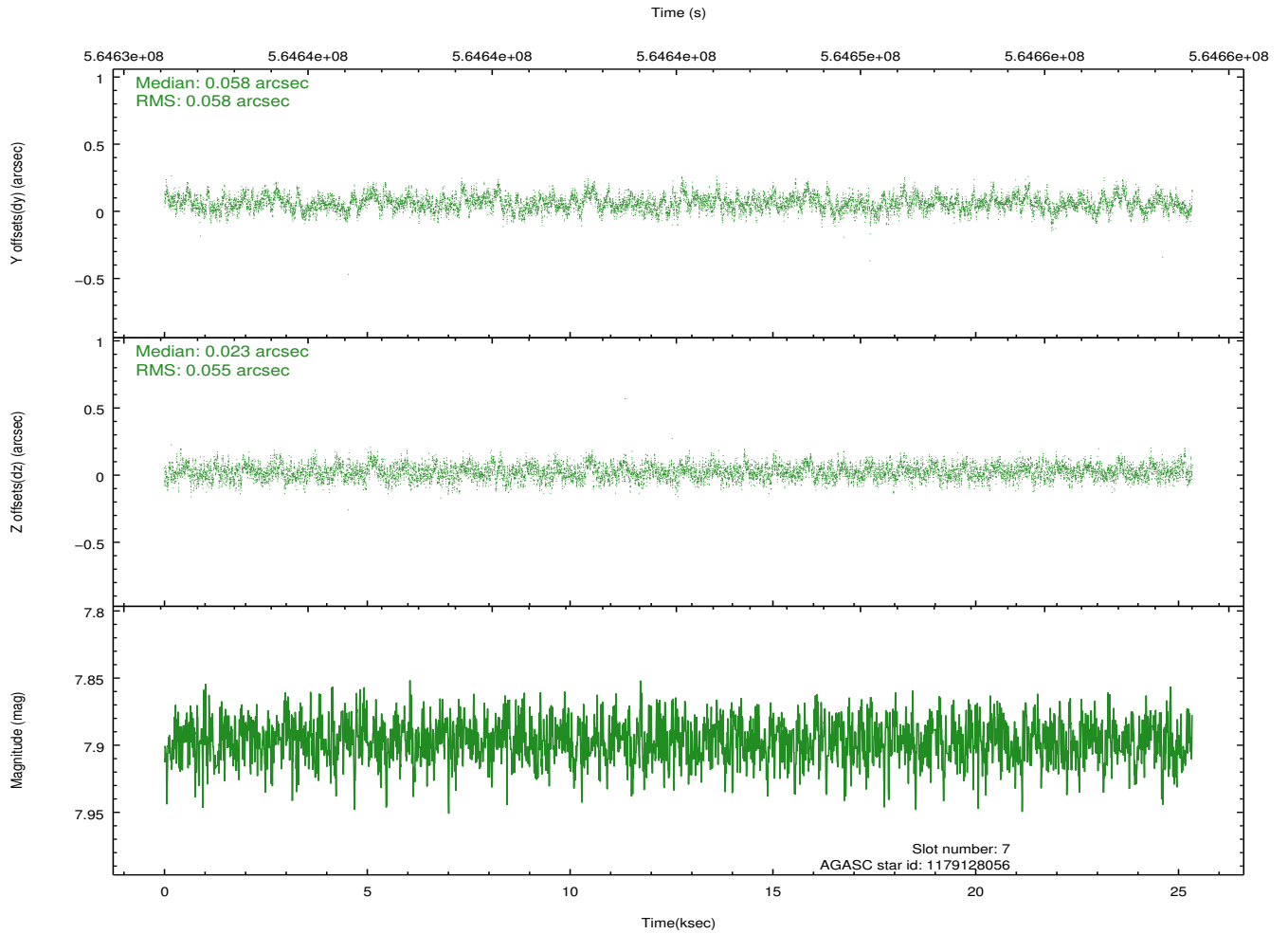
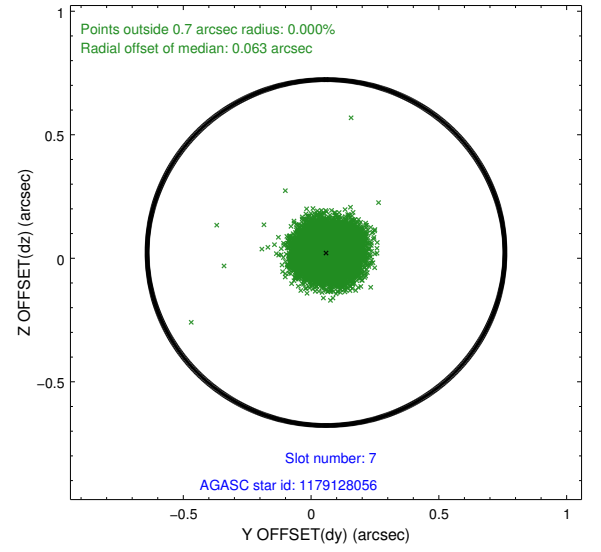
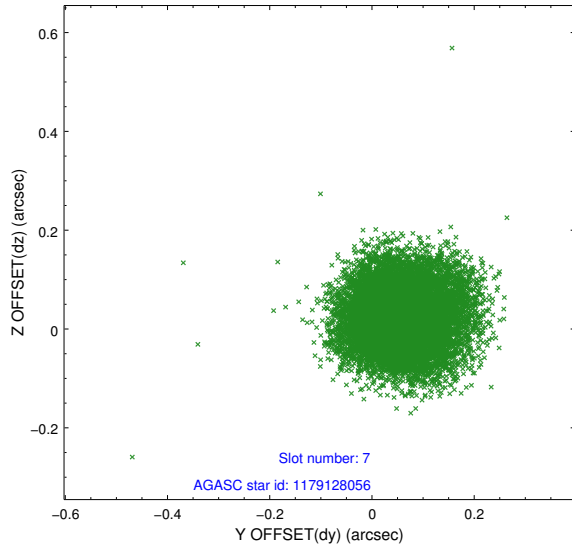
2.4.3 Slot 5



2.4.4 Slot 6

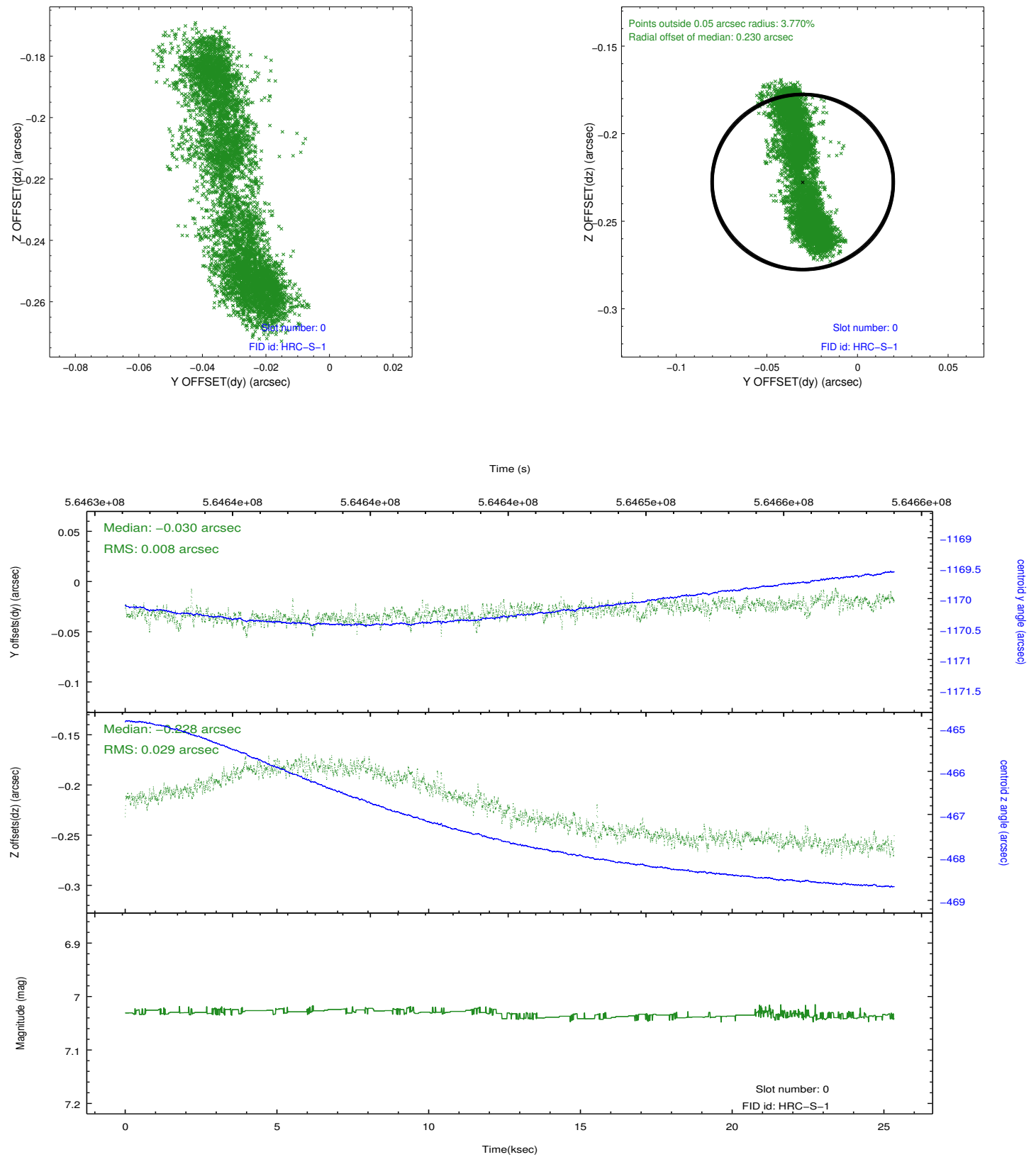


2.4.5 Slot 7

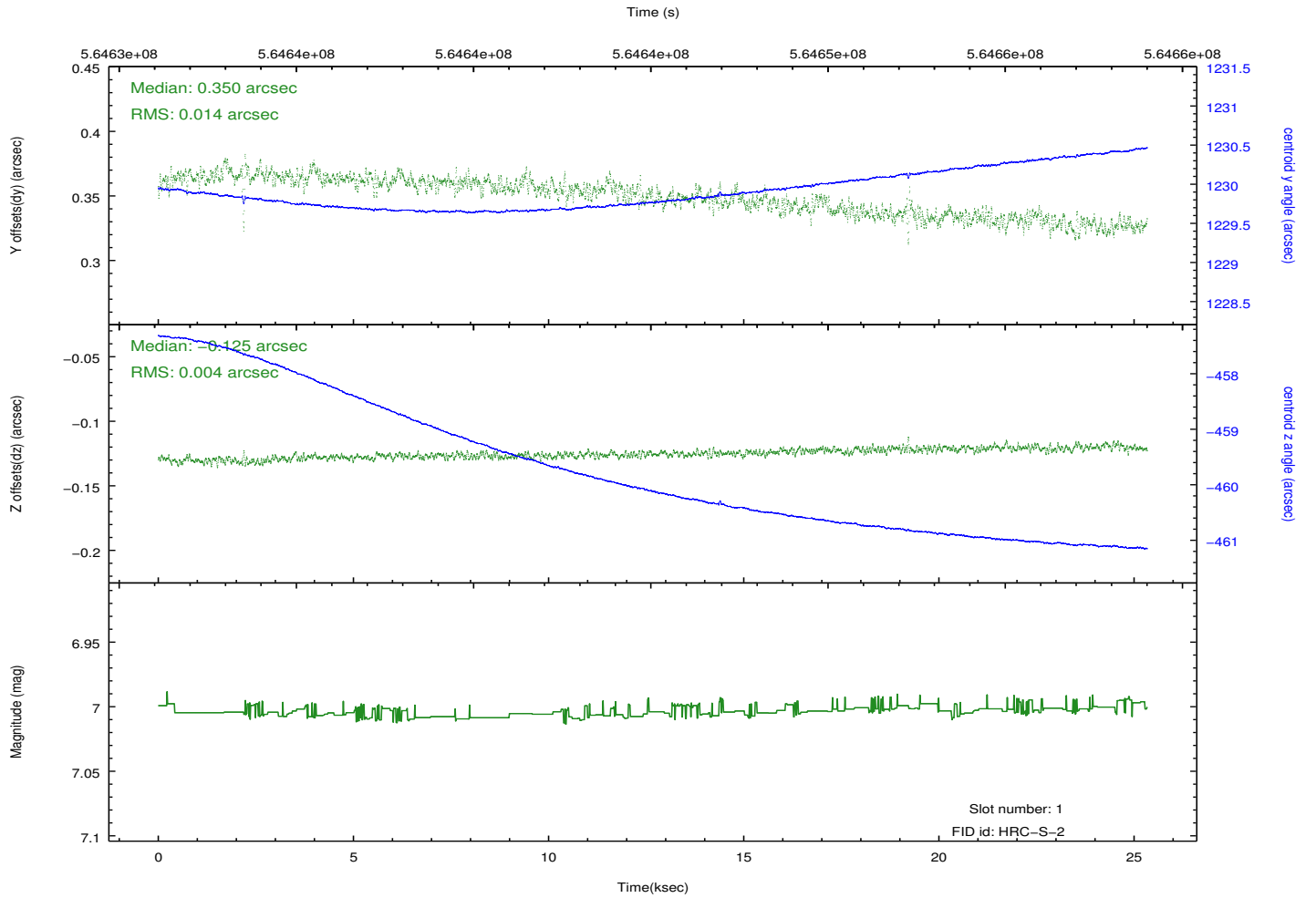
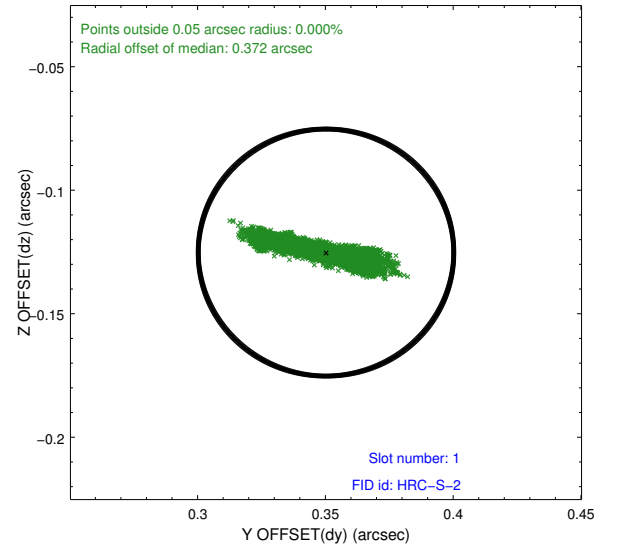
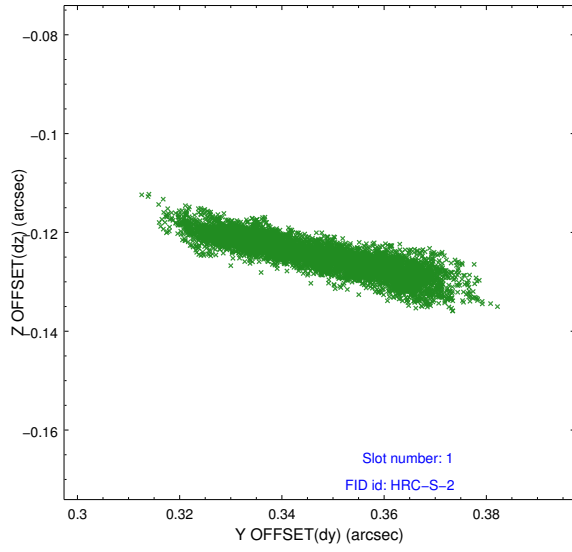


2.5 FID Slots

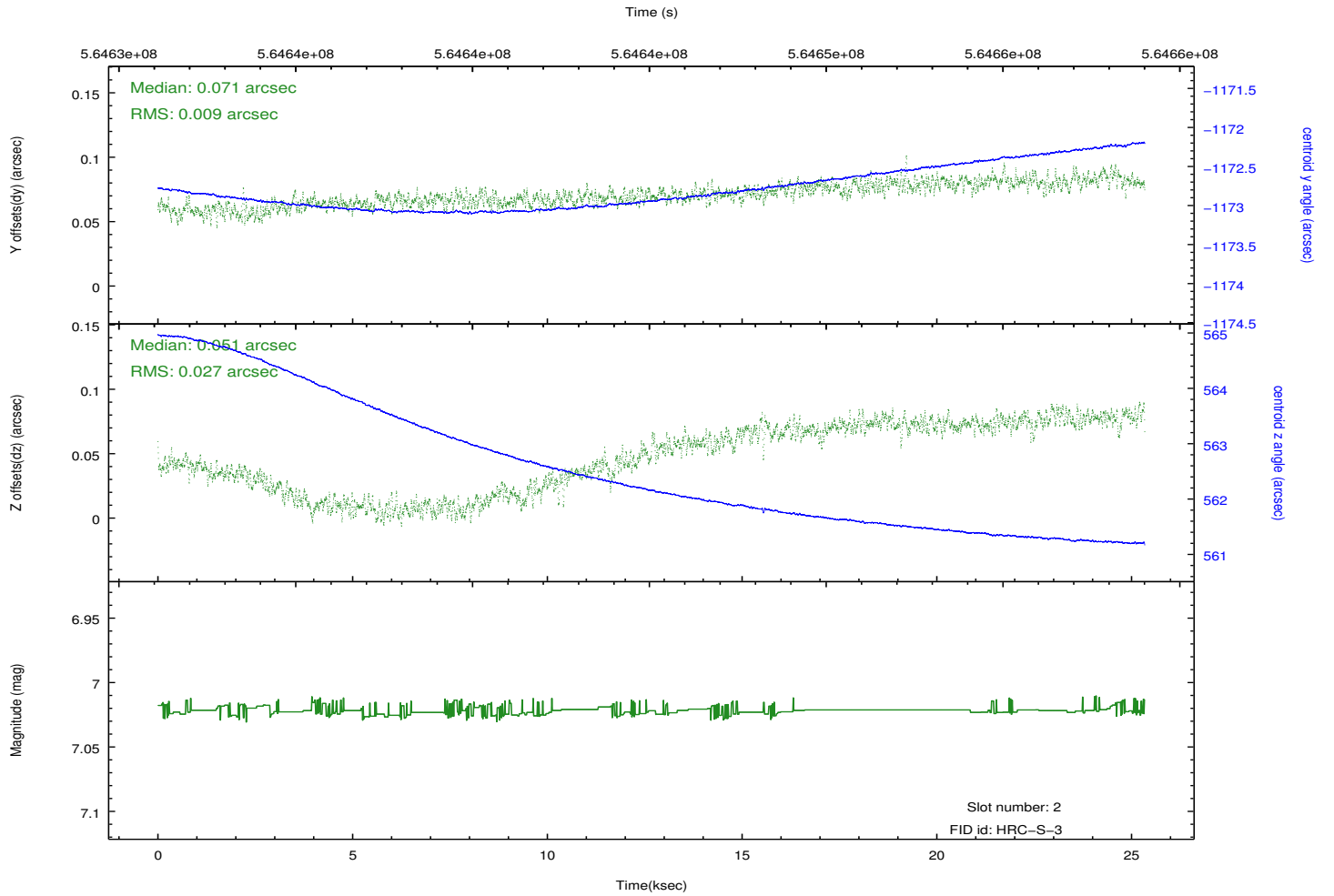
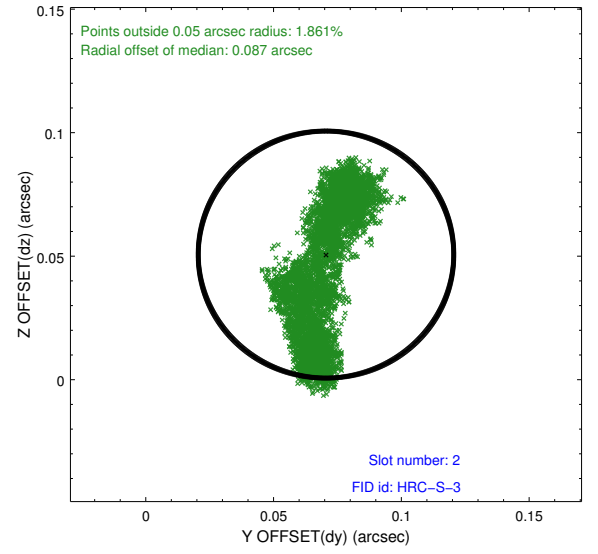
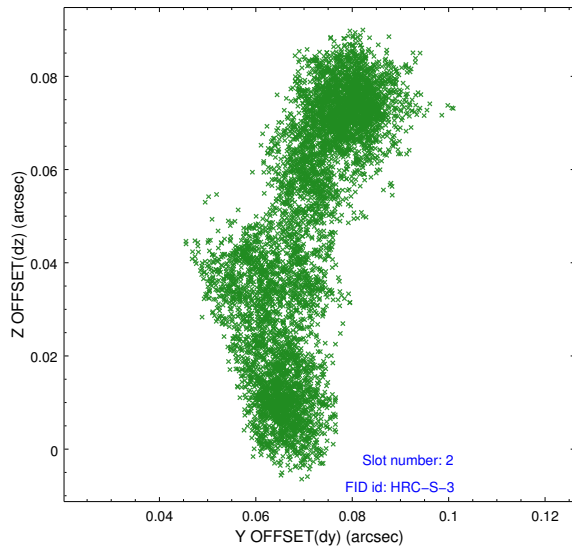
2.5.1 Slot 0



2.5.2 Slot 1

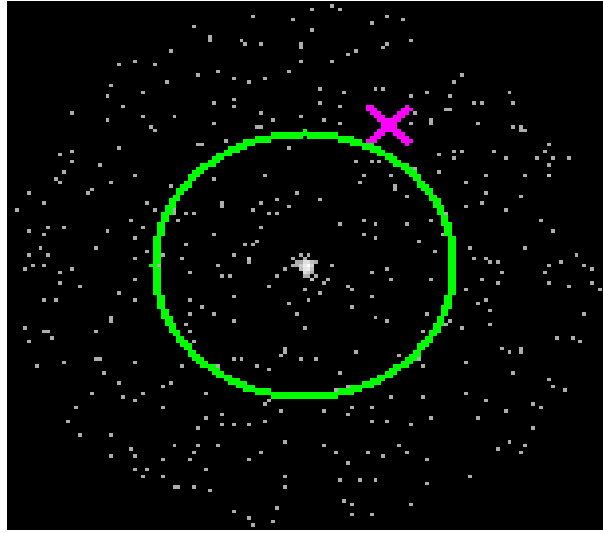


2.5.3 Slot 2

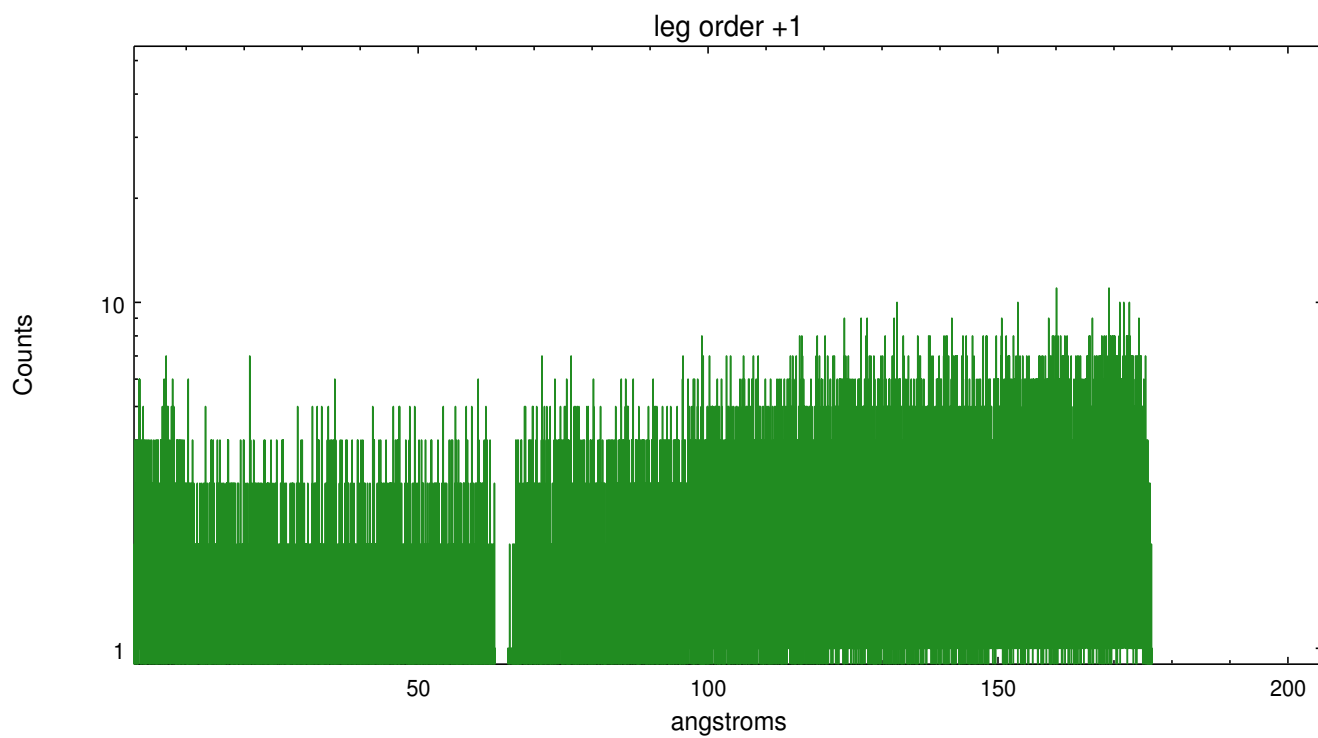
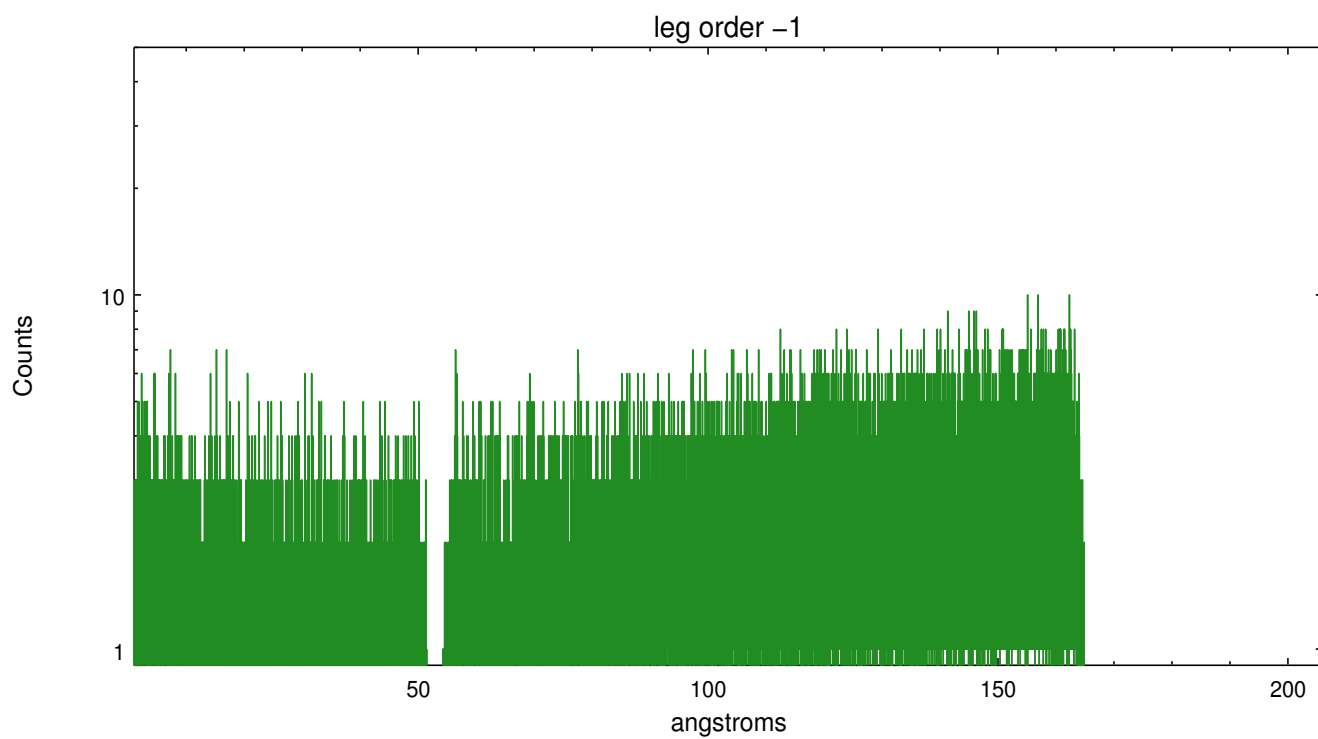


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2015.11.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.339282675743

A.2 Comments