

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 22282 - L2 Version 1
Chandra X-Ray Center

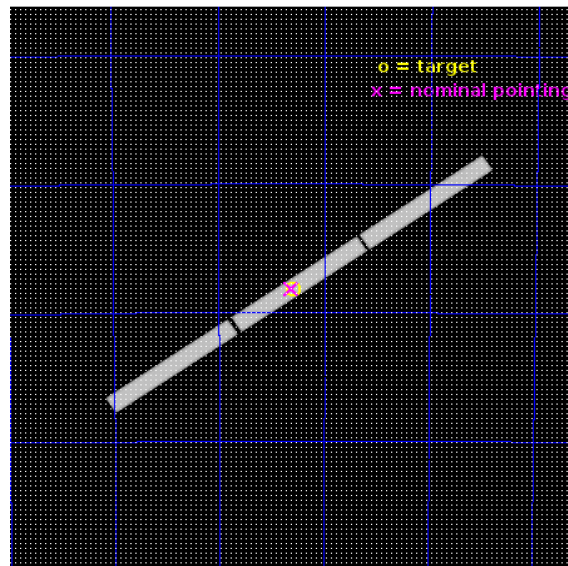
L2 Processing Date : Jul 19 2019

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1 Front

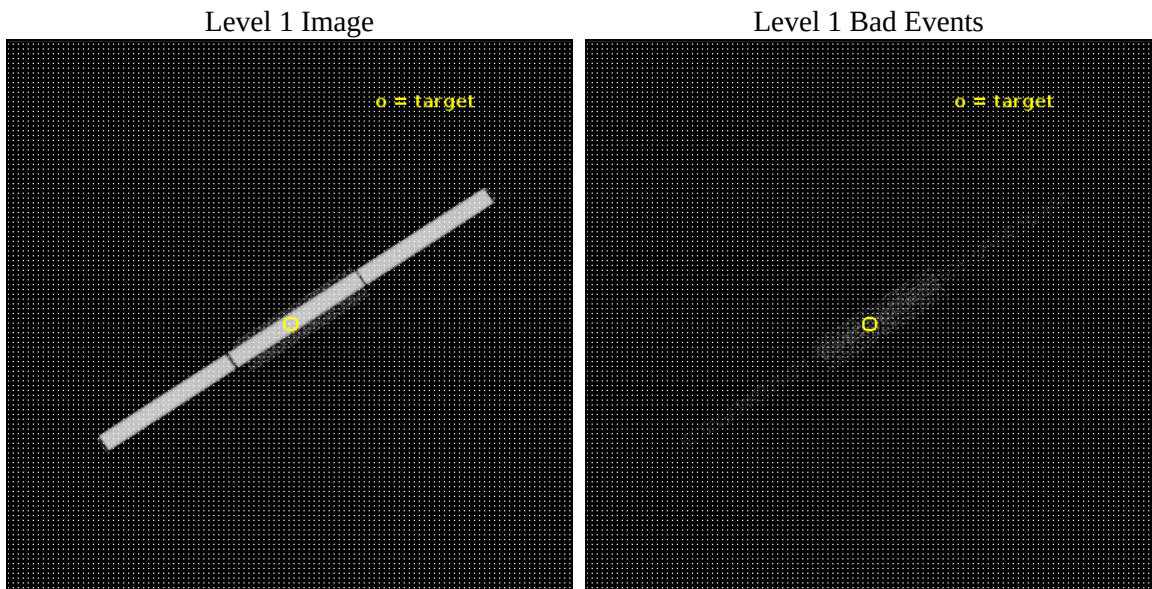
seq_num	503147	Sequence number
obs_id	22282	Observation id
title	eROSITA - Chandra cross-calibration: High Resolution LETGS Spectrum of the Isolated Neutron Star RXJ1856-37	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	RX J1856.5-3754	Source name
ra_targ	284.147083	Observer's specified target RA [deg]
dec_targ	-37.909556	Observer's specified target Dec [deg]
ra_nom	284.15519936078	Nominal RA [deg]
dec_nom	-37.908429757904	Nominal Dec [deg]
roll_nom	326.07232344283	Nominal Roll [deg]
revision	1	Processing version of data
ontime	16337.732231975	[s]
livetime	16175.352163818	Ontime multiplied by DTCOR
l2events	1478032	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	16167.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	16337.732231975	[s]
caldbver	4.8.3.1	 	l1events	1869272	Number of level 1 events
date	2019-07-19T03:45:05	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32869.02, 32710.79)	src1a sky pixel position

2.1.3 Events

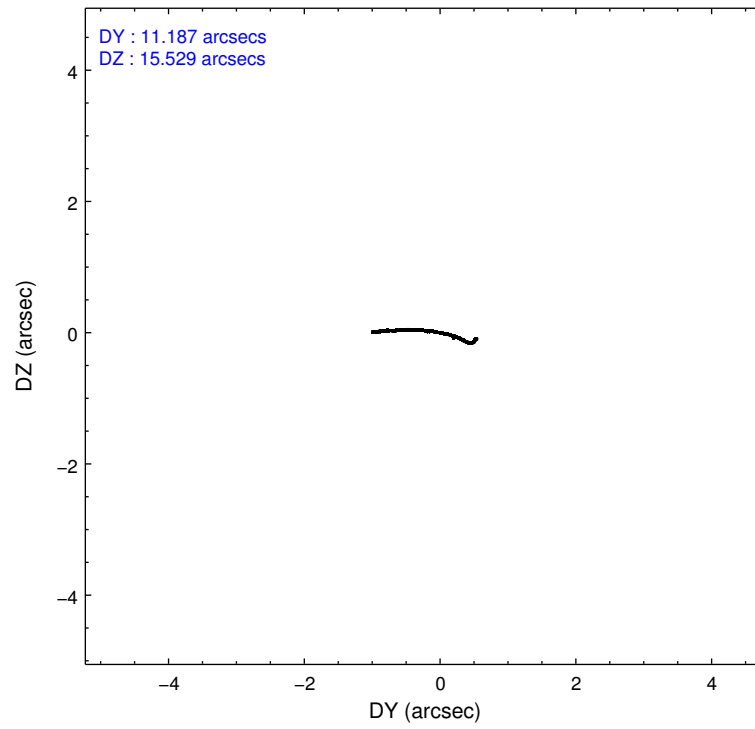
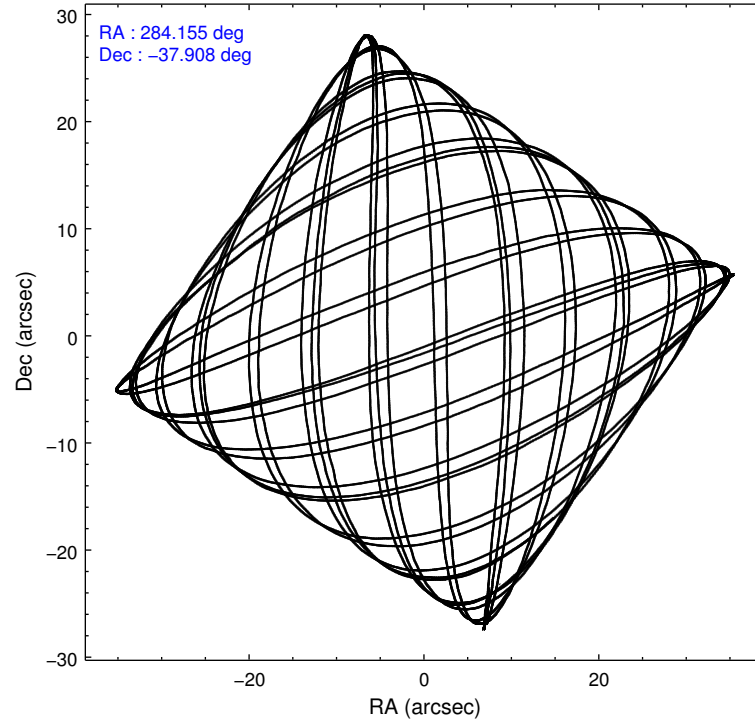
Level 1 Events

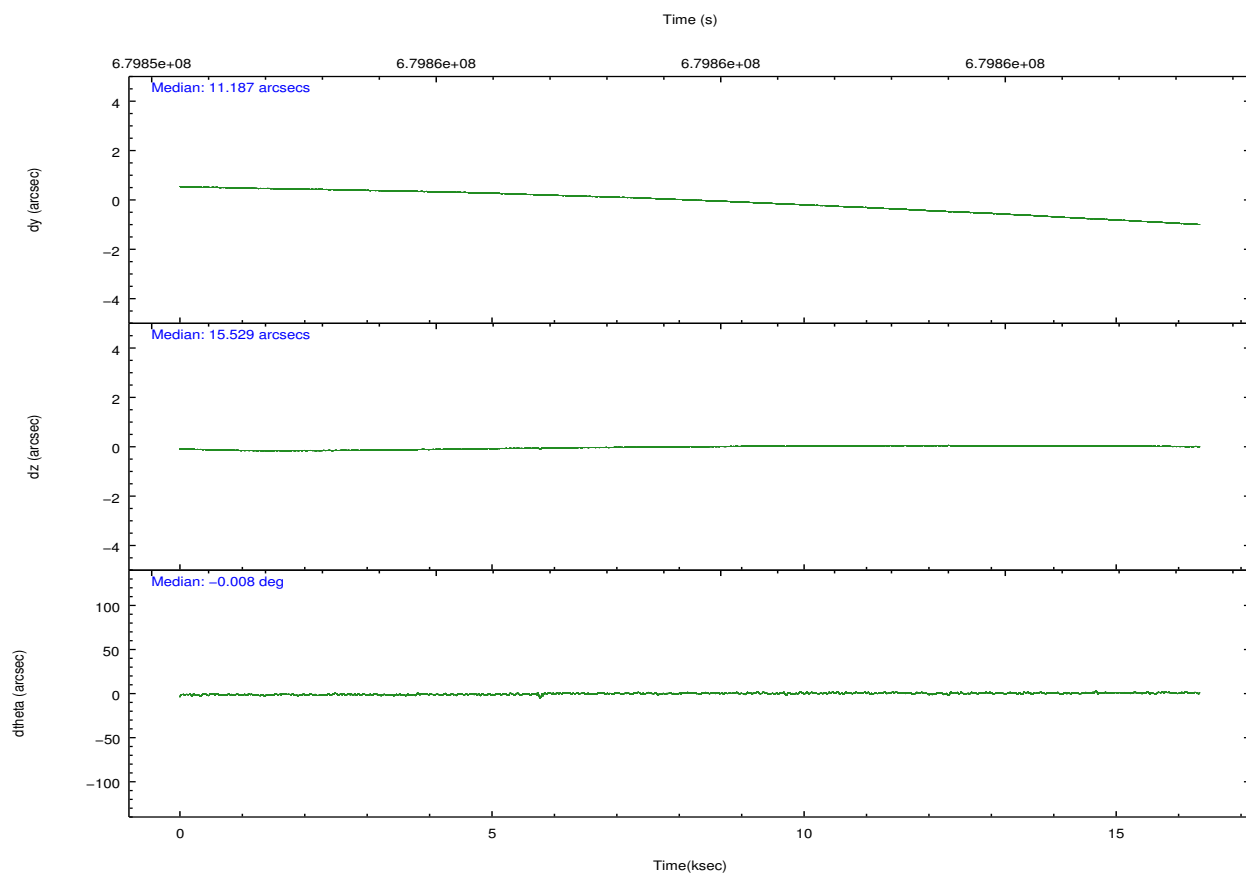
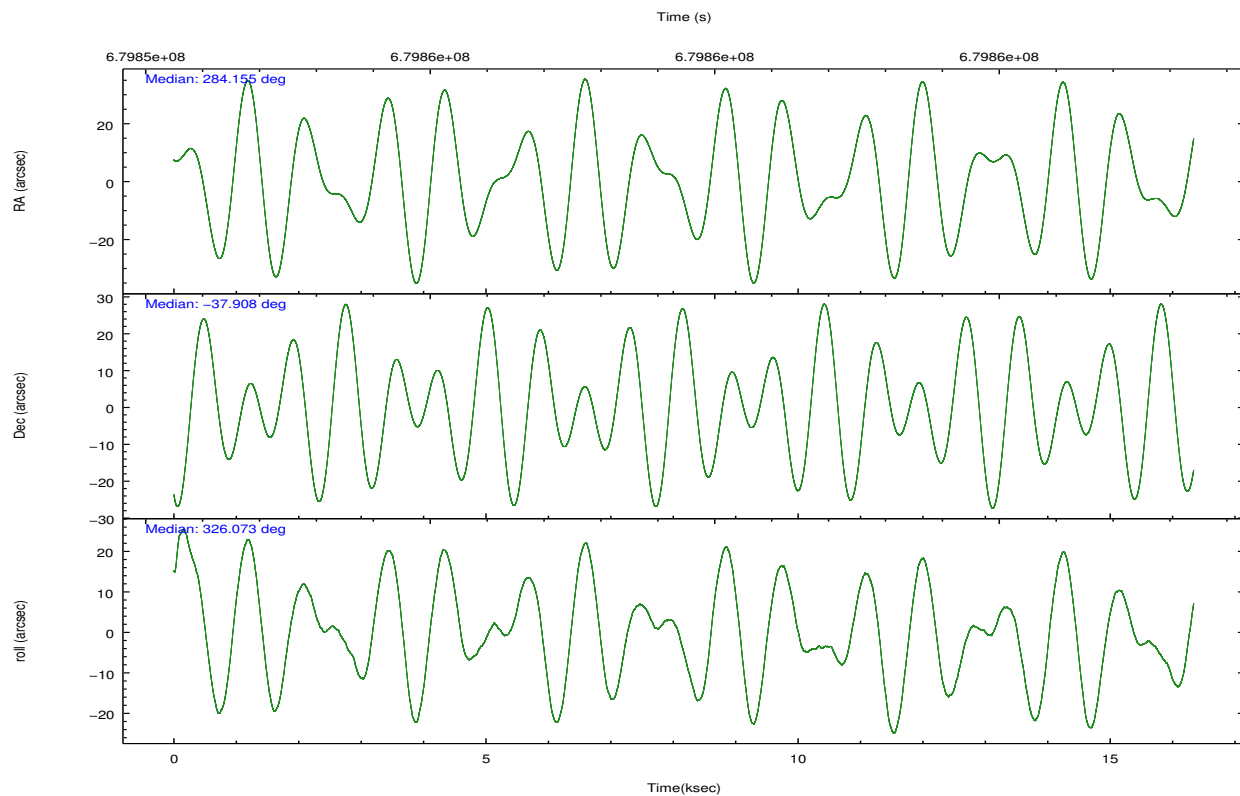
	segment 1	segment 2	segment 3
level 1 events	618930	630504	619838
rejected events	18273	22901	18001
rejected %	2%	3%	2%

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	284.118637	284.1551993607764			
[deg] Pointing Dec	-37.907790	-37.90842975790373			
[deg] Pointing Roll	325.982522	326.0723234428291			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	679851459.184000	679850632.76458			
Observation start date	2019-07-18T15:36:30	2019-07-18T15:23:52			
[s] Observation end time (MET)	679867626.184000	679868341.69064			
Observation end date	2019-07-18T20:05:57	2019-07-18T20:19:01			

2.3 Aspect



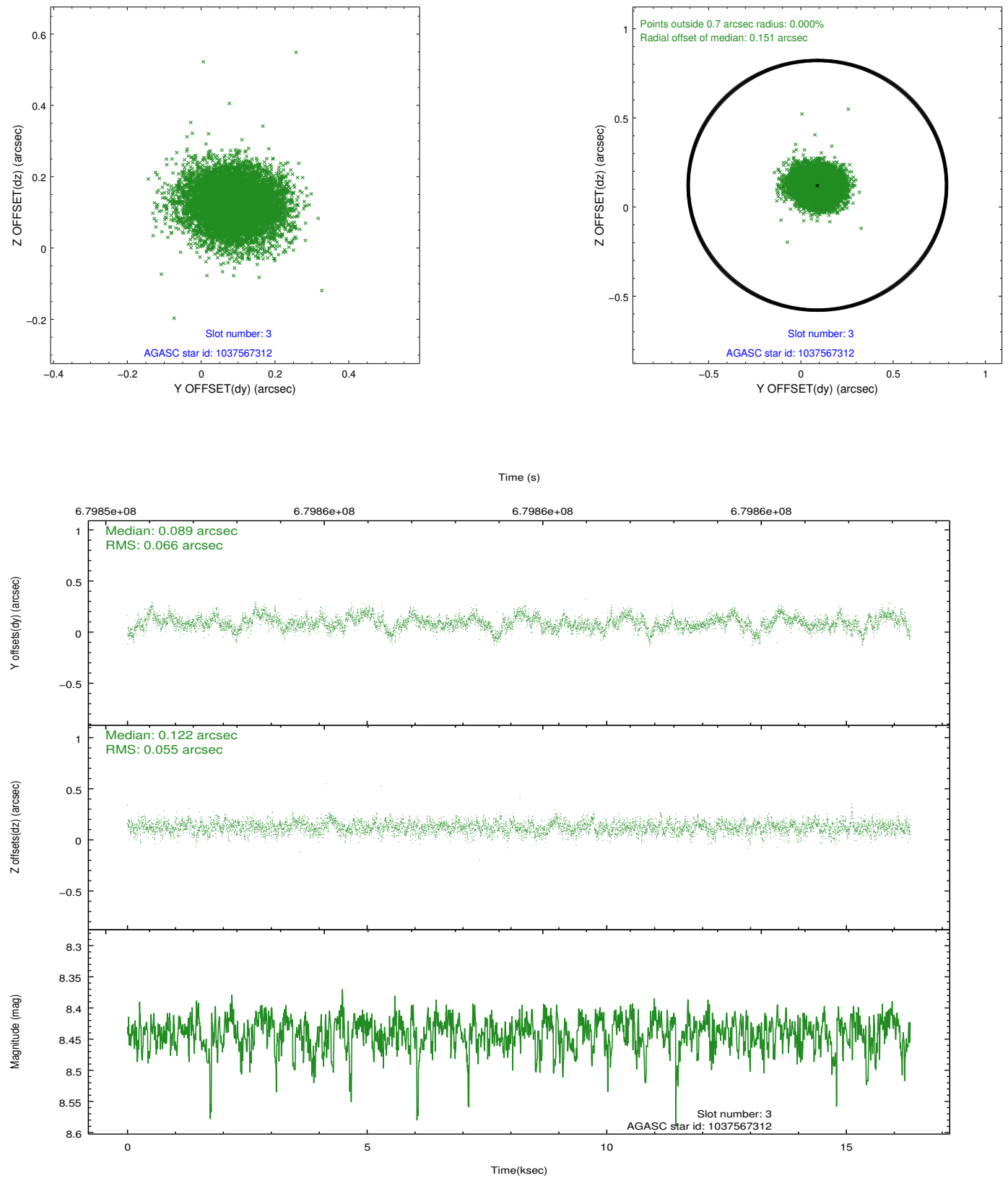


Slot Statistics

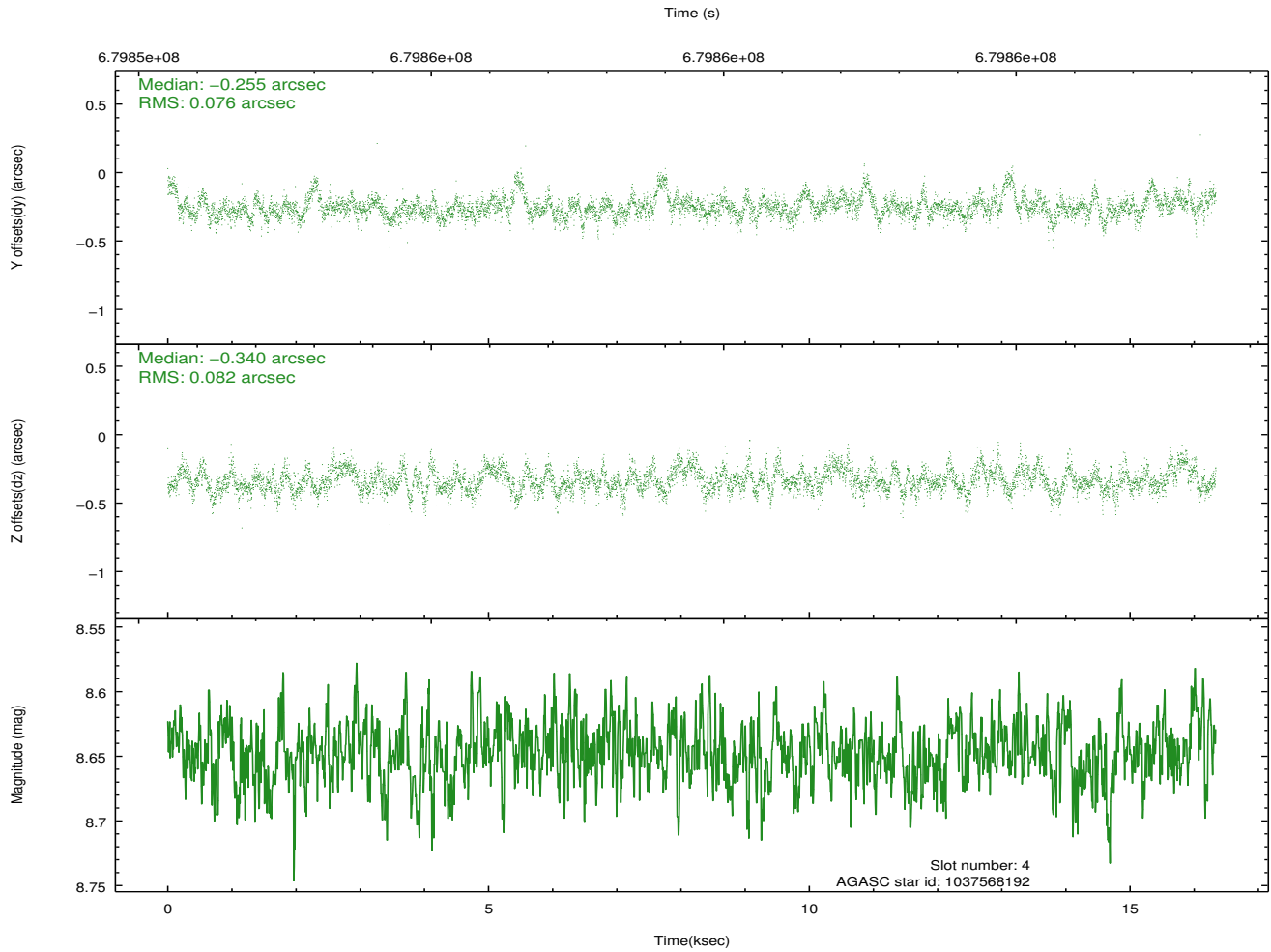
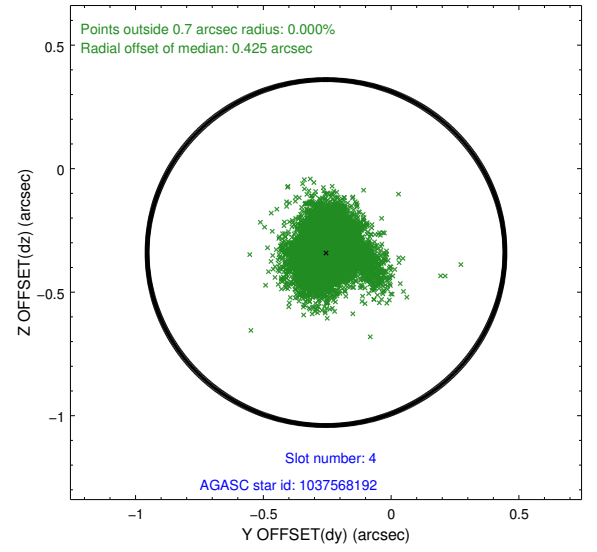
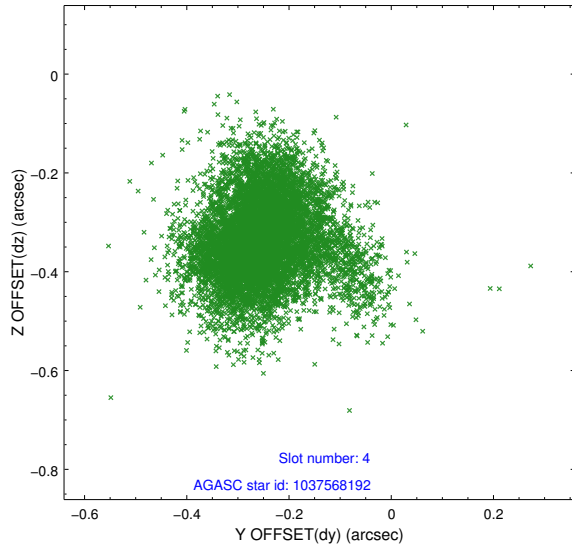
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.06	3985	1.000	-0.085	-0.227	0.011	0.019	0.000000	0.000000	-1165.52	-464
1	FID		HRC-S-2	7.04	3985	1.000	0.498	-0.165	0.019	0.044	0.000000	0.000000	1234.44	-456
2	FID		HRC-S-3	7.04	3985	1.000	-0.022	0.088	0.016	0.028	0.000000	0.000000	-1167.94	565
3	GUIDE	used	1037567312	8.44	7970	1.000	0.089	0.122	0.091	0.150	283.456056	-37.976515	-1415.80	-1261
4	GUIDE	used	1037568192	8.65	7967	1.000	-0.255	-0.340	0.116	0.196	284.446060	-38.037443	1031.56	131
5	GUIDE	used	1037578168	8.09	7963	1.000	-0.063	0.128	0.103	0.166	284.493659	-38.169059	1409.38	-190
6	GUIDE	used	1037566080	7.80	7967	1.000	0.226	0.084	0.095	0.150	283.069097	-37.947159	-2380.49	-1797
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

2.4 Star Slots

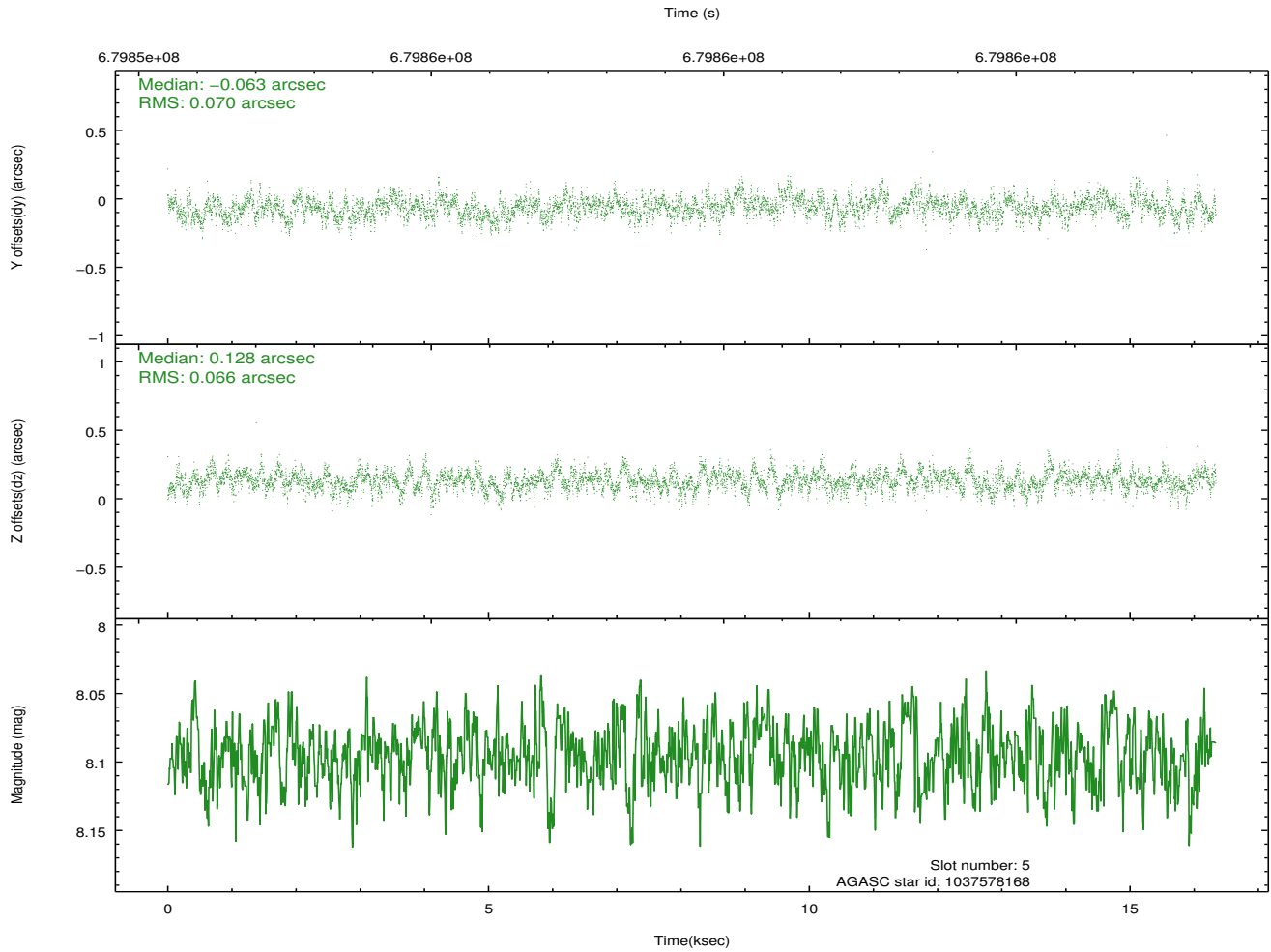
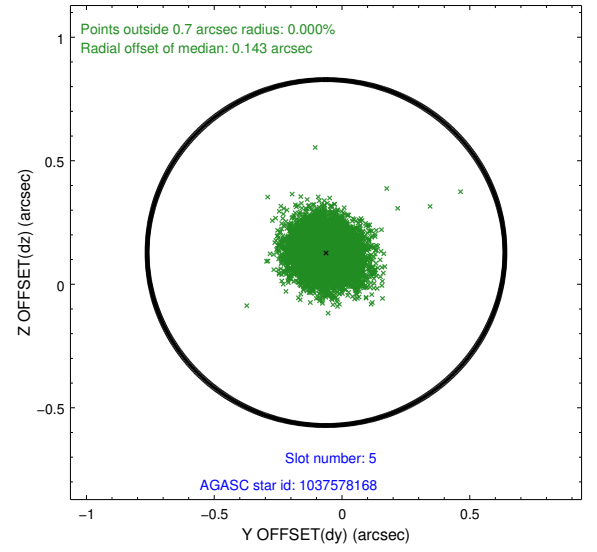
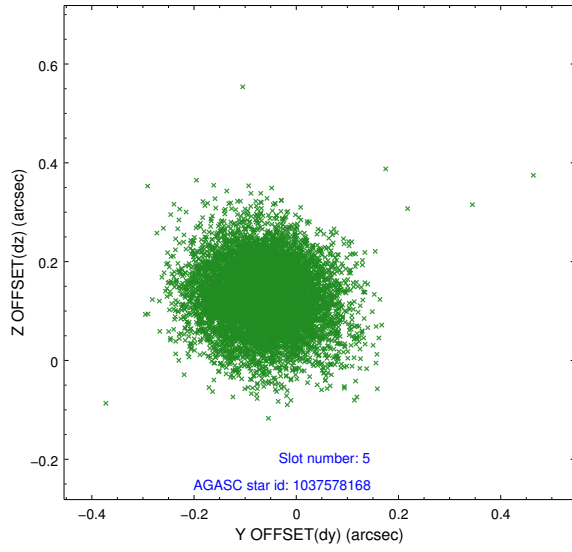
2.4.1 Slot 3



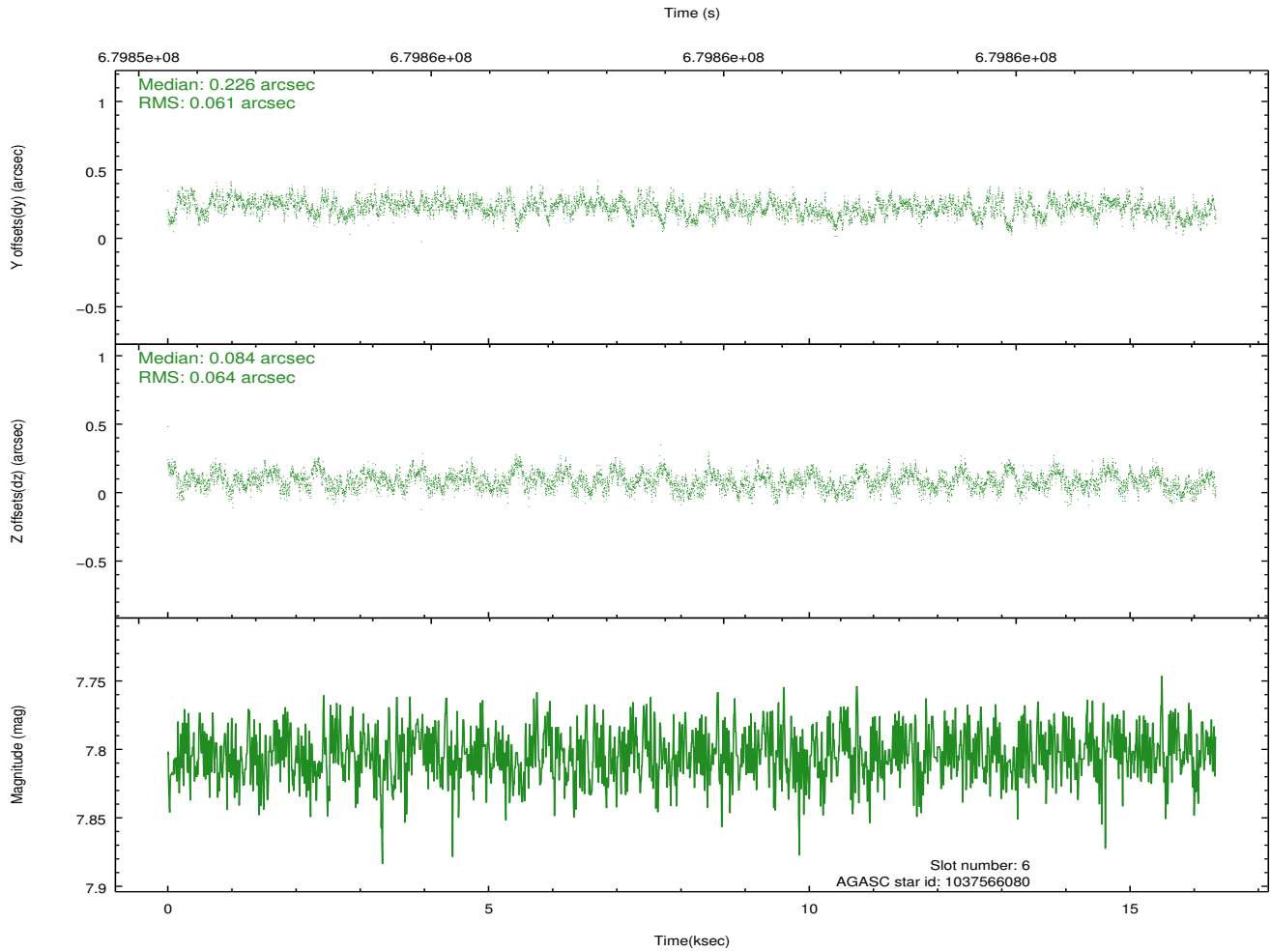
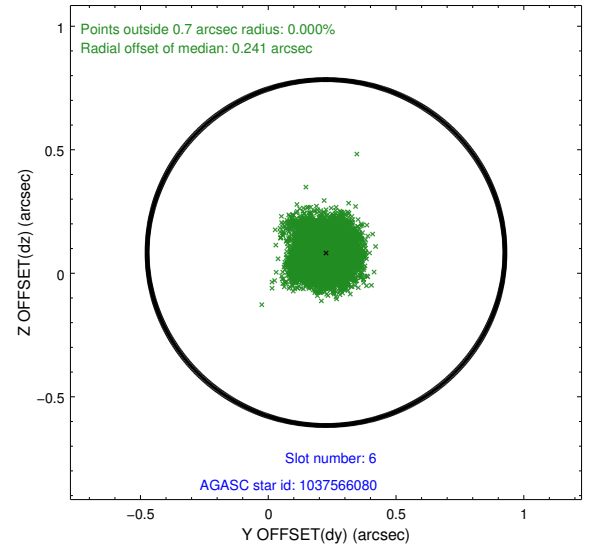
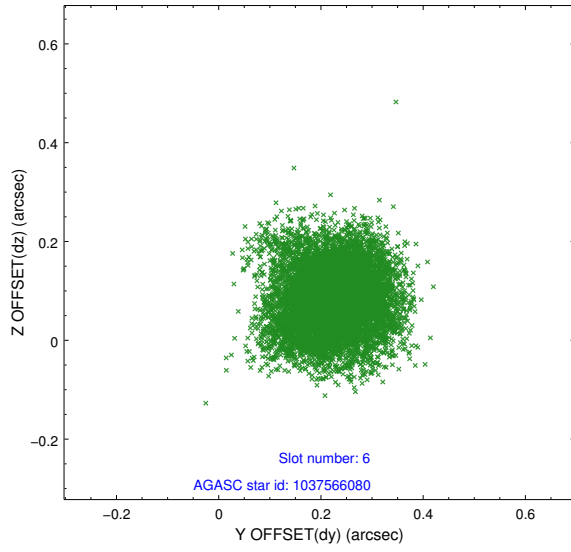
2.4.2 Slot 4



2.4.3 Slot 5

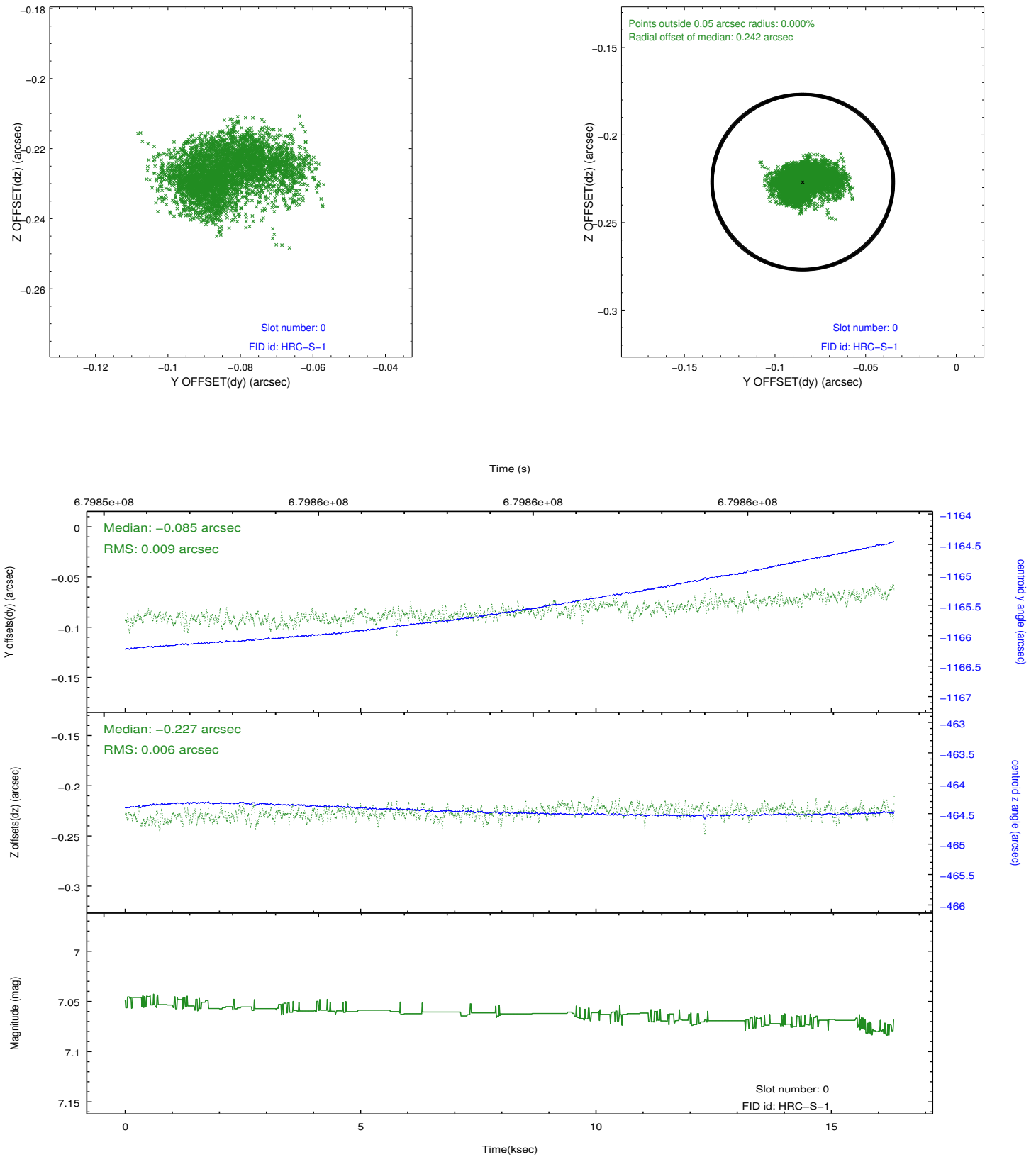


2.4.4 Slot 6

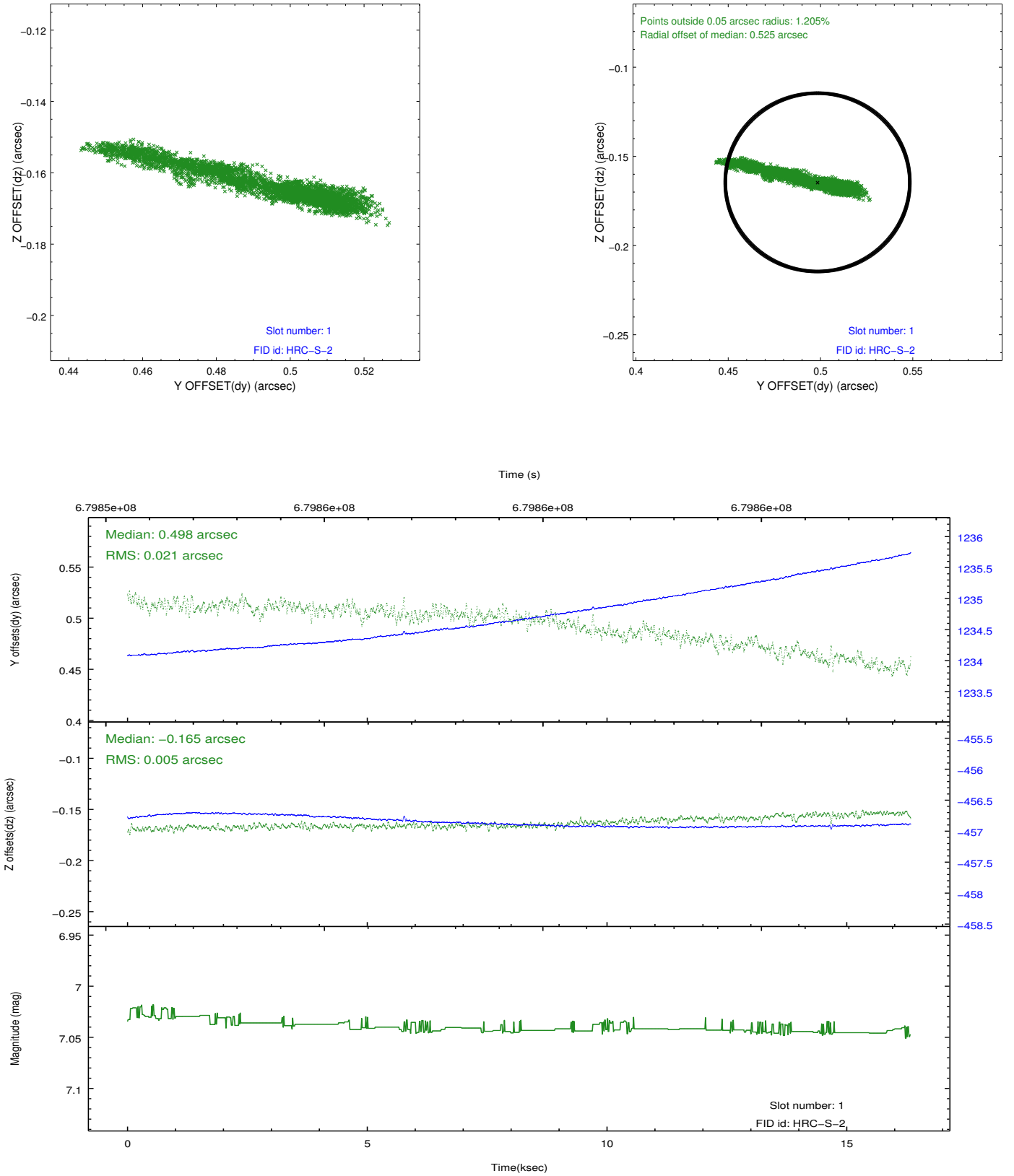


2.5 FID Slots

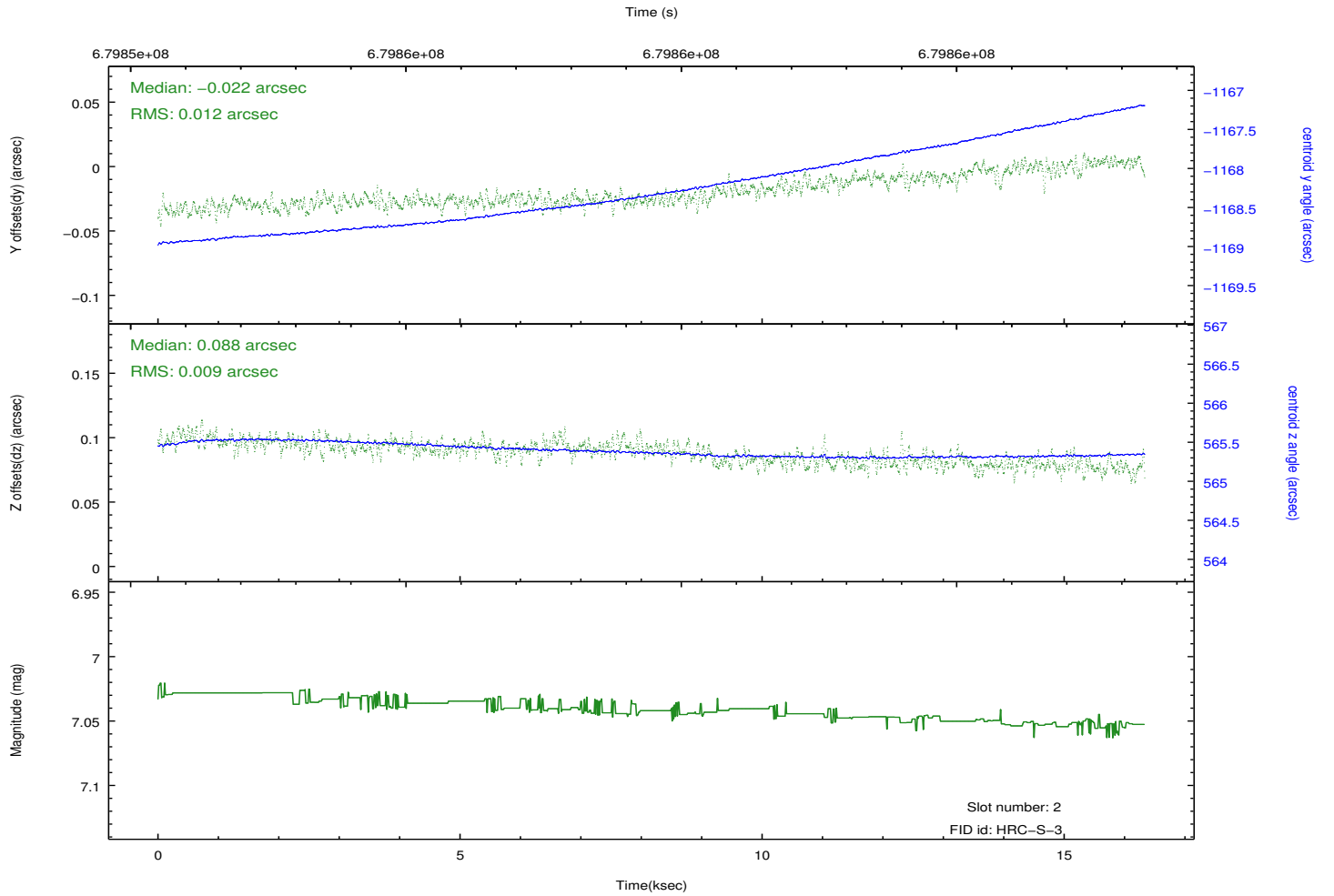
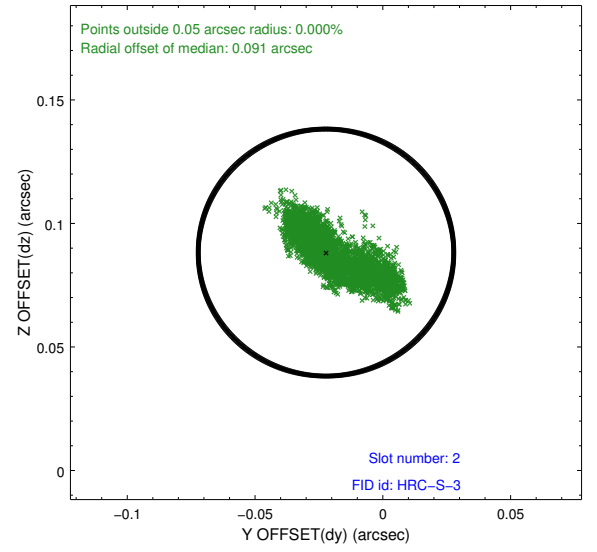
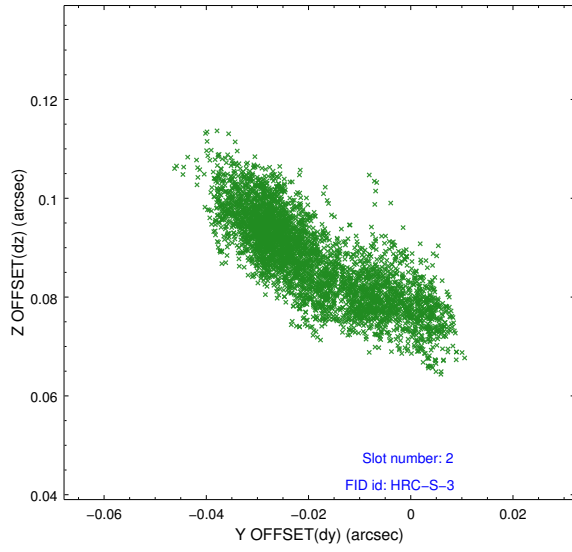
2.5.1 Slot 0



2.5.2 Slot 1

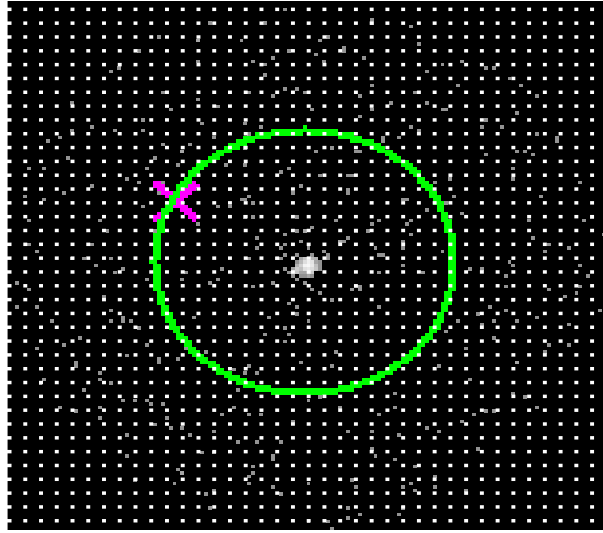


2.5.3 Slot 2

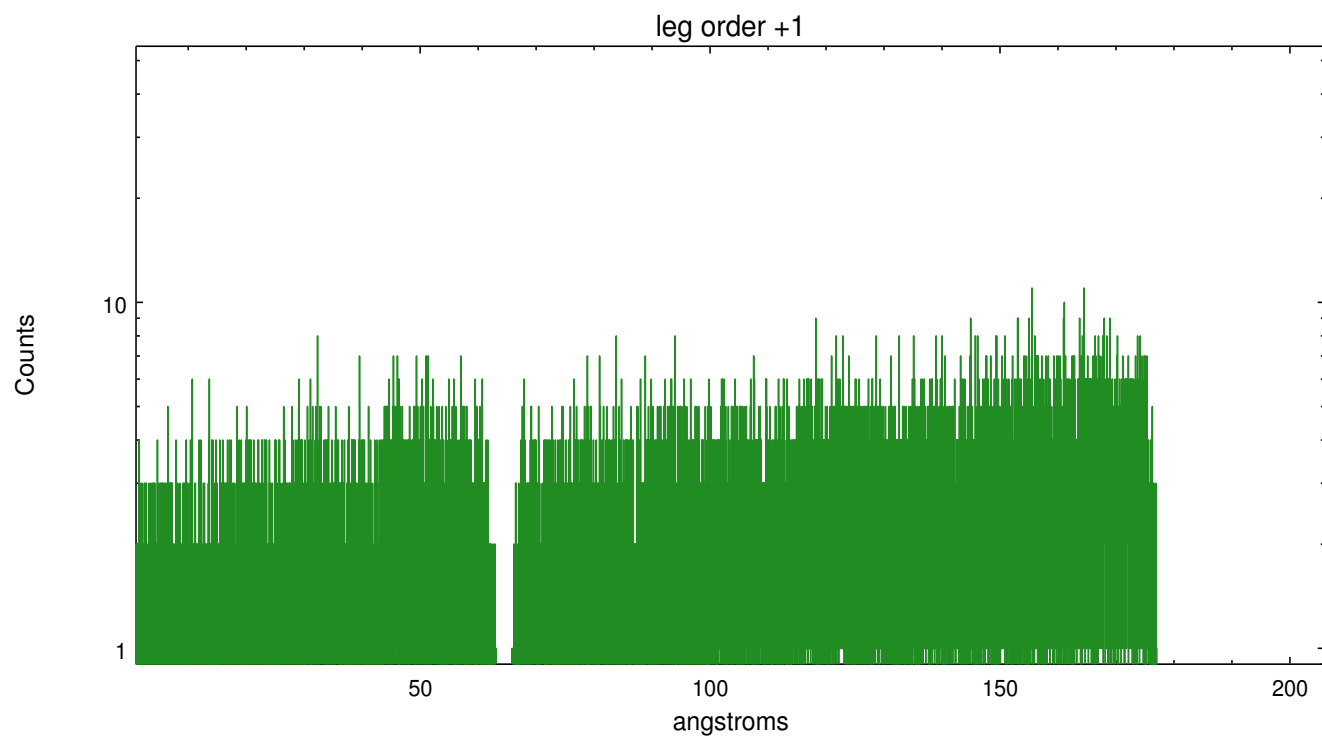
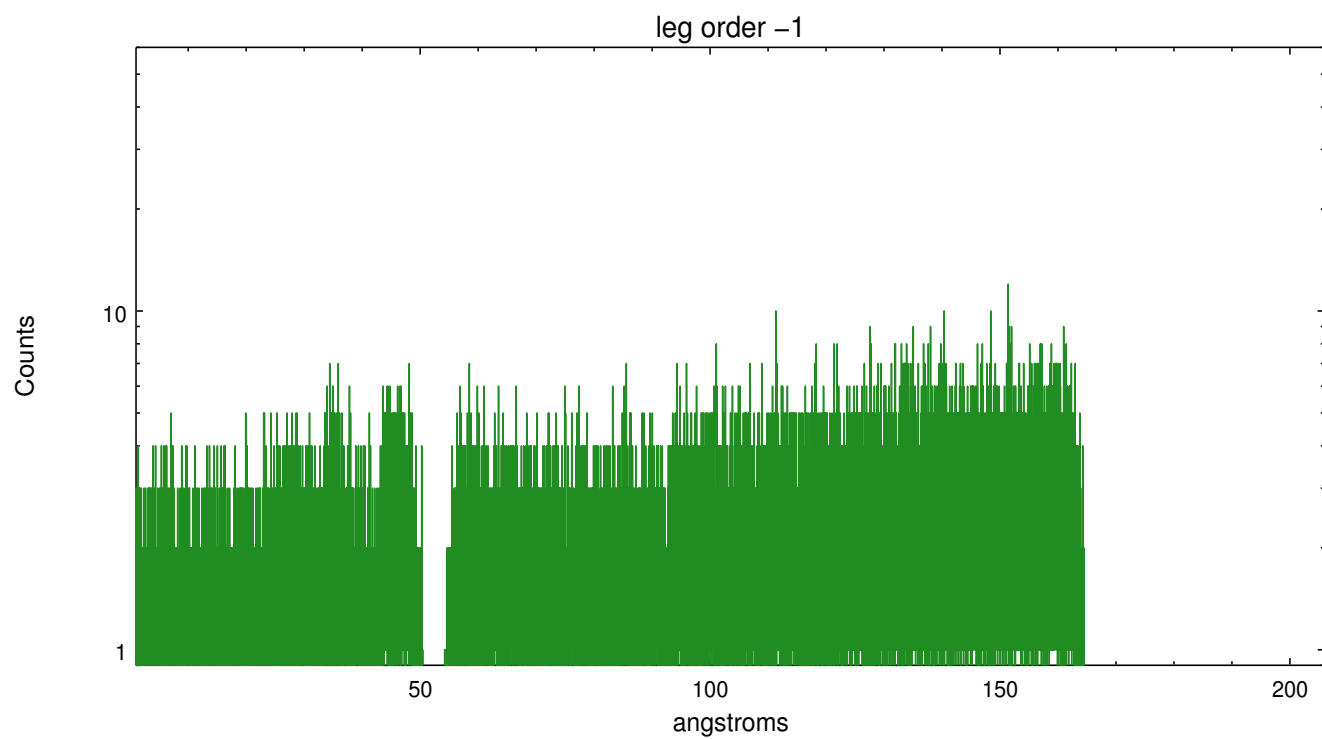


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2019.07.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	16.337732231975

A.2 Comments