

V&V Reference Report

L2 ASCDS Version : 10.6.4

Observation 20712 - L2 Version 1
Chandra X-Ray Center

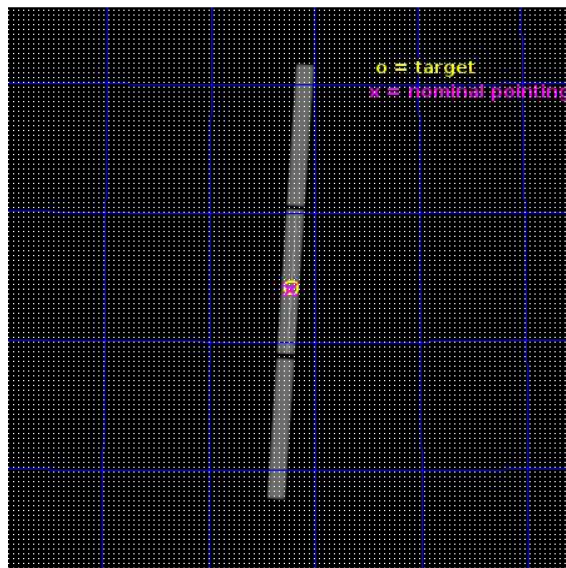
L2 Processing Date : Jul 13 2018

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1 Front

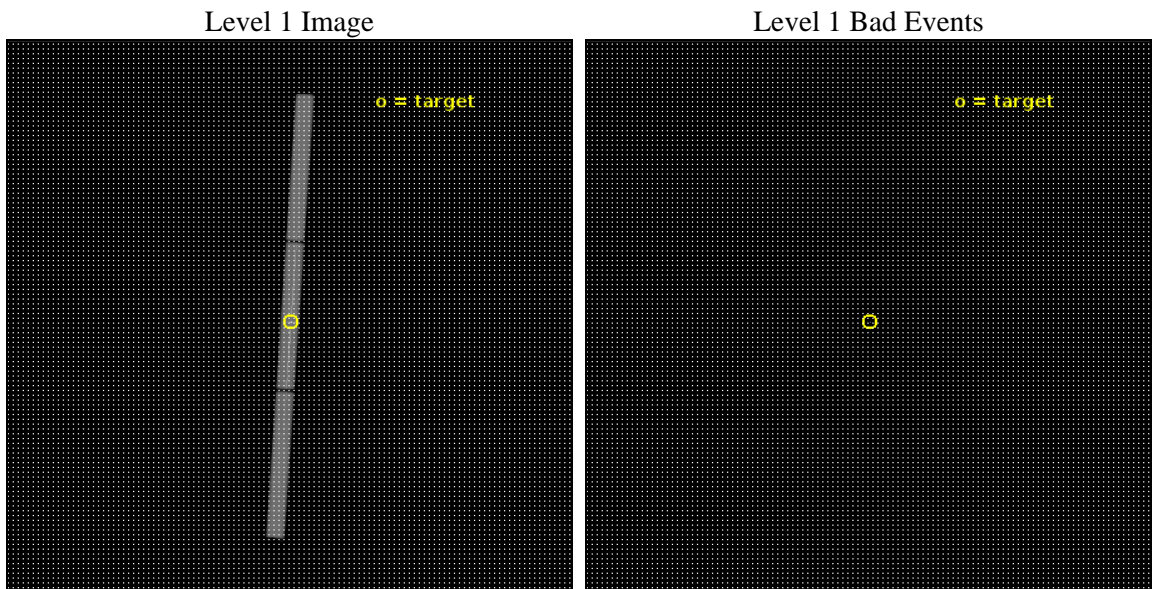
seq_num	790311	Sequence number
obs_id	20712	Observation id
title	AO-19 Calibration Observations of Mkn421	Proposal title
observer	CXC Calibration	Principal investigator
object	MKN421	Source name
ra_targ	166.113333	Observer's specified target RA [deg]
dec_targ	38.208806	Observer's specified target Dec [deg]
ra_nom	166.12051965264	Nominal RA [deg]
dec_nom	38.202552467571	Nominal Dec [deg]
roll_nom	273.62043006024	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10179.531853318	[s]
livetime	10069.482444819	Ontime multiplied by DTCOR
l2events	1042122	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	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4	Processing system revision	ontime	10179.531853318	[s]
caldsver	4.7.8	 	l1events	1267249	Number of level 1 events
date	2018-07-13T16:24:45	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	1	Processing version of data	zo_pos	(32911.92, 32936.73)	src1a sky pixel position

2.1.3 Events

Level 1 Events

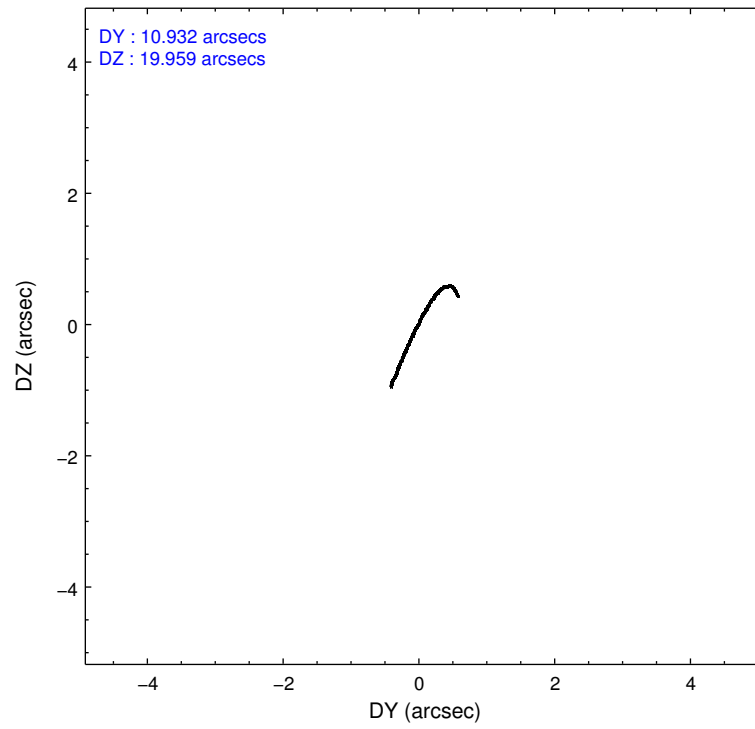
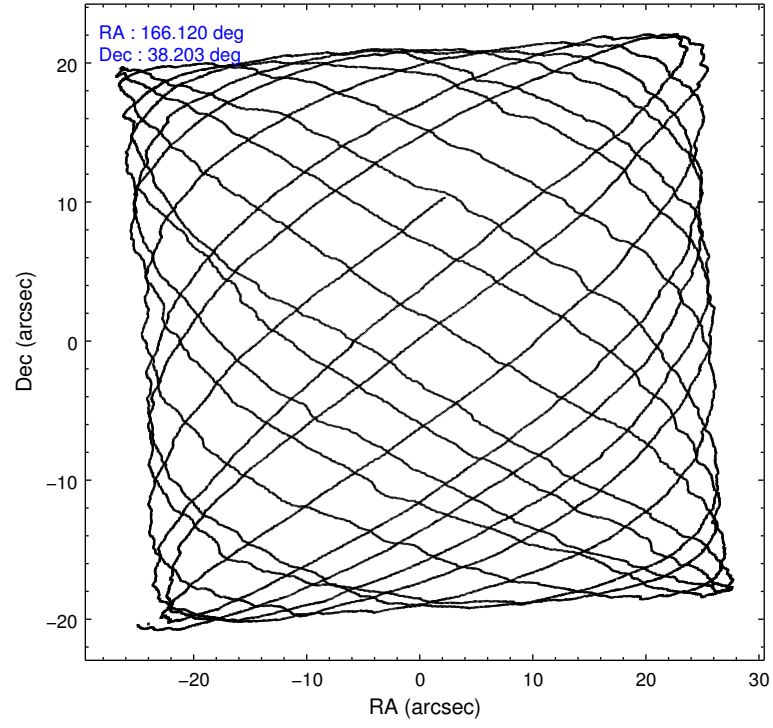
	segment 1	segment 2	segment 3
level 1 events	385351	495677	386221
rejected events	3807	4848	3937
rejected %	0%	0%	1%

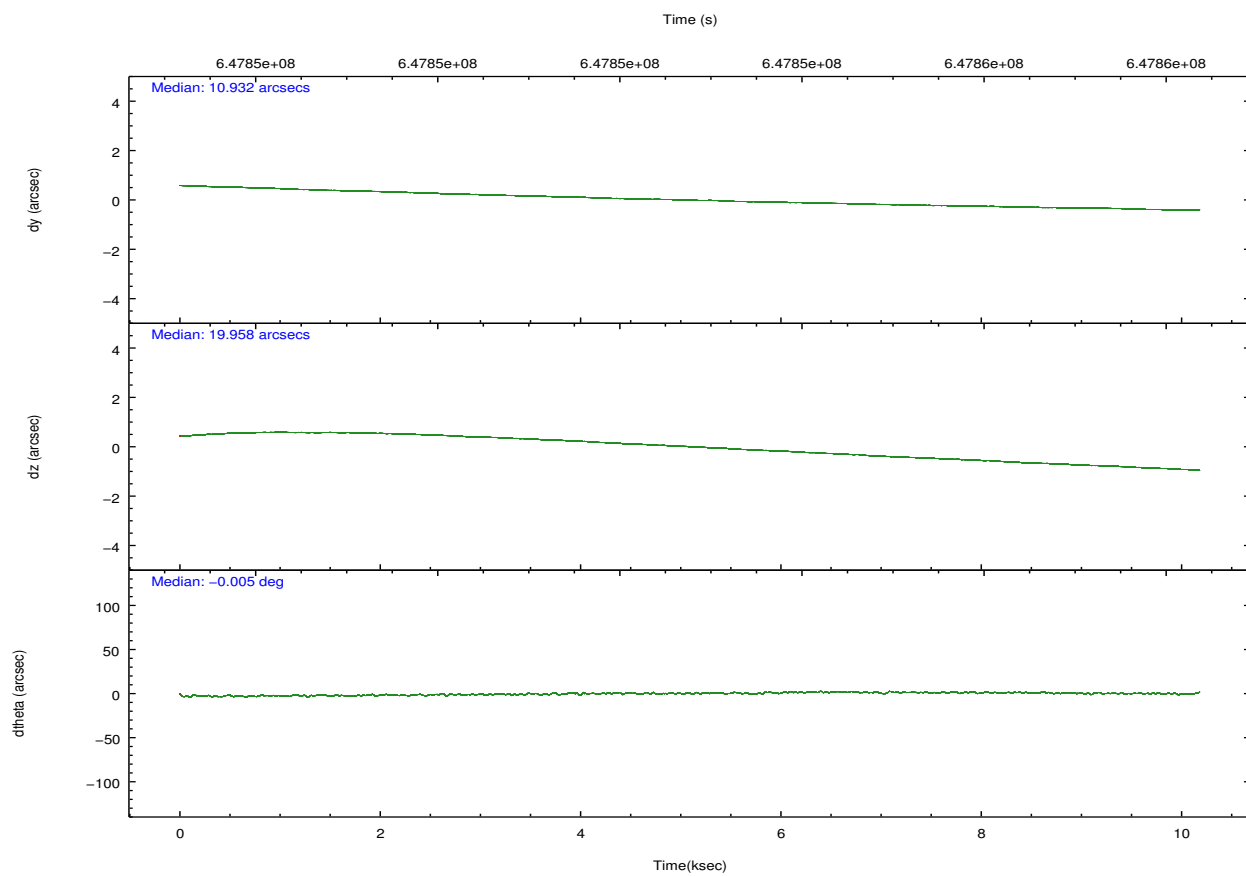
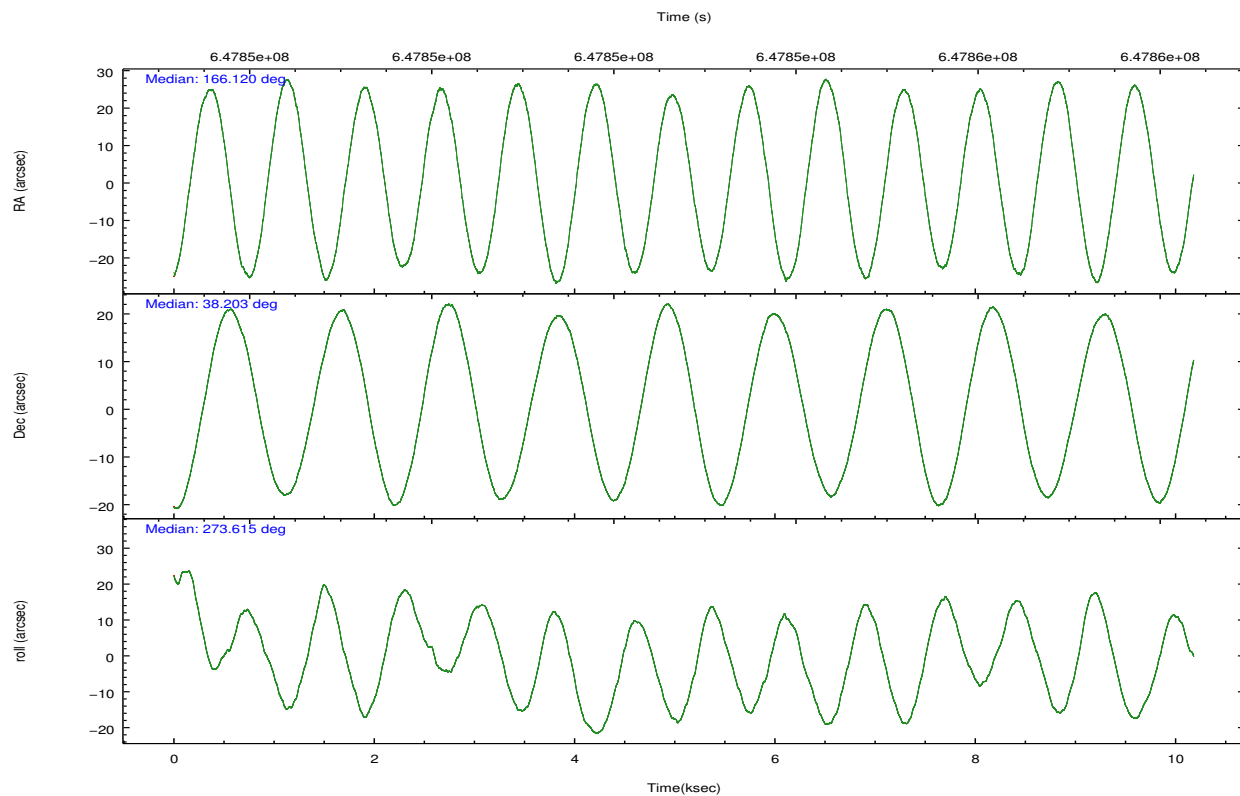
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	LETG	LETG
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	166.098786	166.1205196526373
[deg] Pointing Dec	38.225902	38.20255246757063
[deg] Pointing Roll	273.566549	273.6204300602402
[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)	647847849.184000	647847381.21241
Observation start date	2018-07-13T05:43:00	2018-07-13T05:36:21
[s] Observation end time (MET)	647857849.184000	647858115.0130399
Observation end date	2018-07-13T08:29:40	2018-07-13T08:35:15

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect



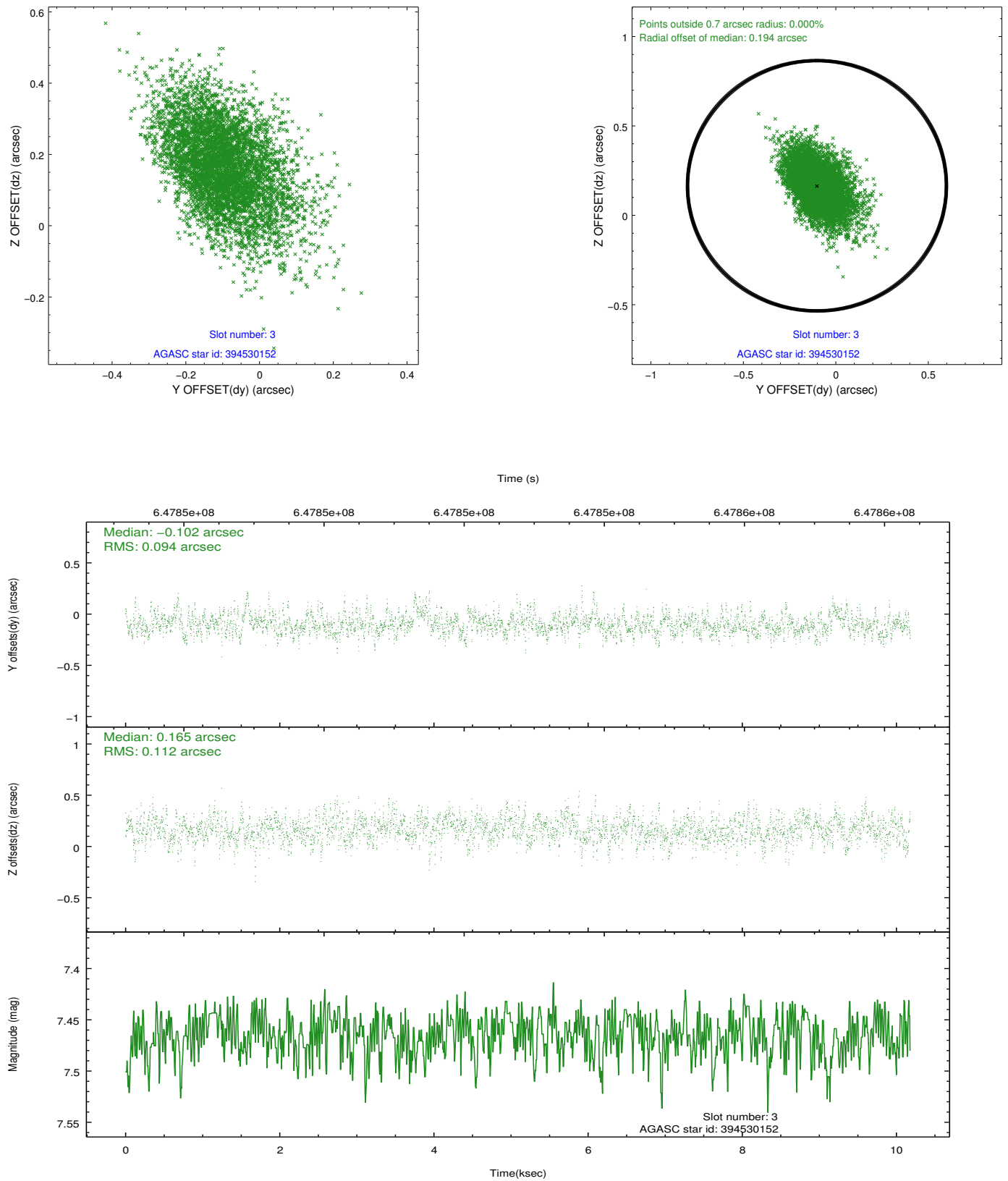


Slot Statistics

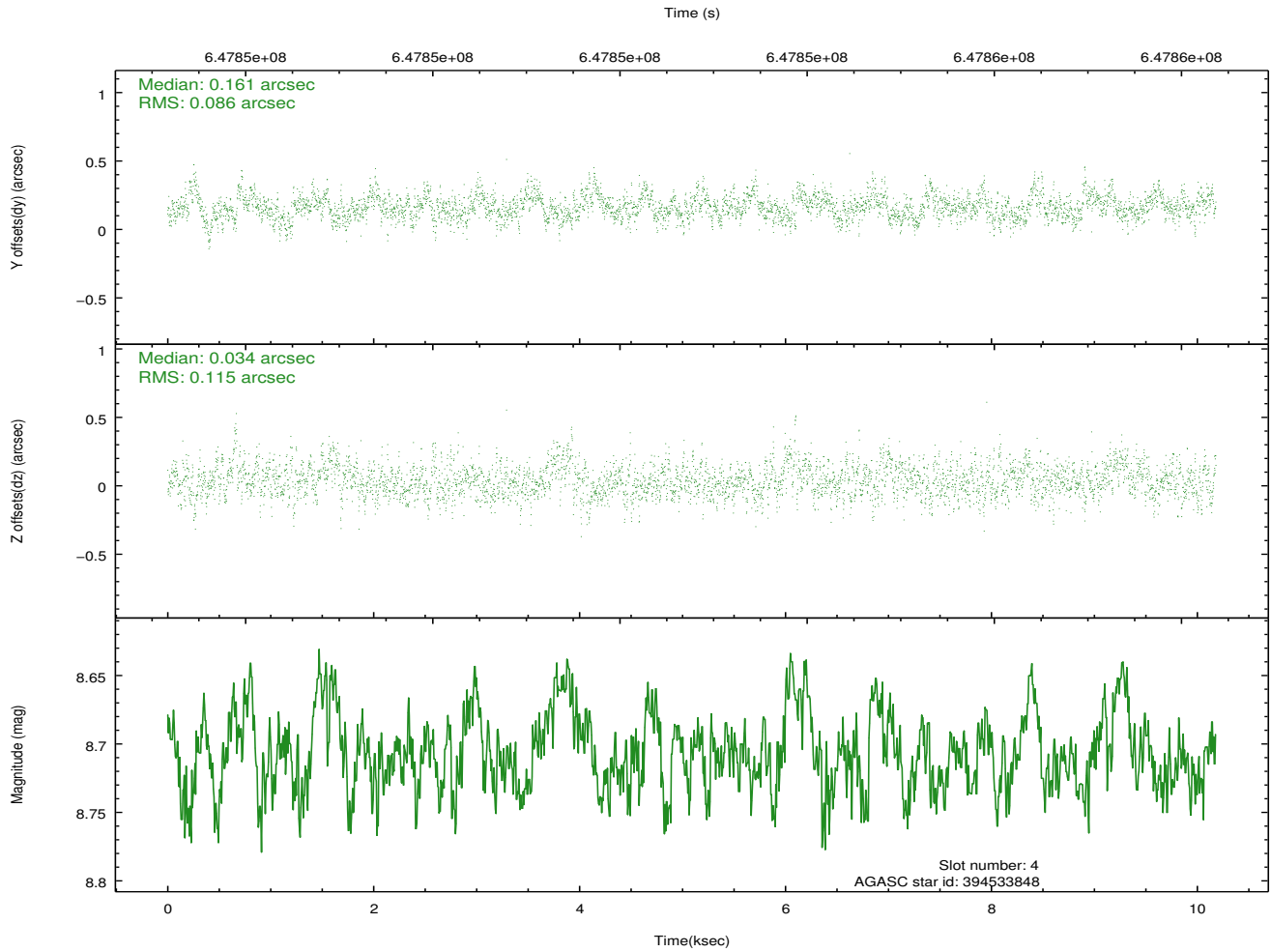
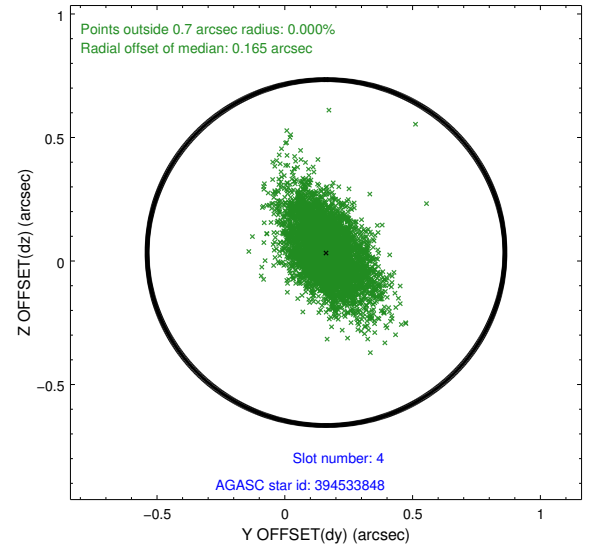
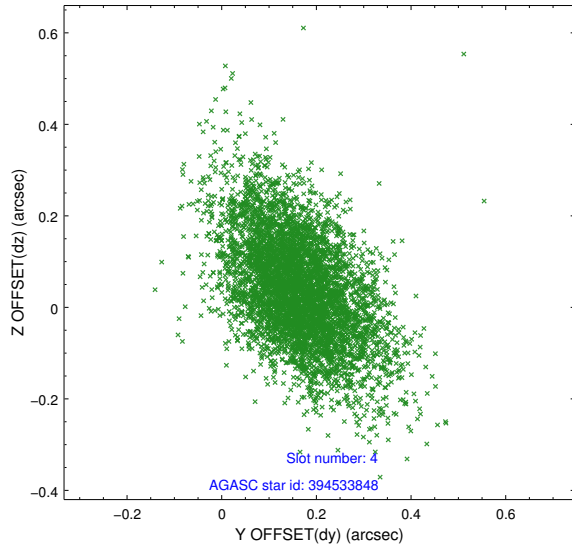
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-S-1	7.06	2484	1.000	-0.015	-0.222	0.019	0.026	0.000000	0.000000	-1165.31	-468
1	FID		HRC-S-2	7.03	2483	1.000	0.346	-0.131	0.021	0.031	0.000000	0.000000	1234.27	-461
2	FID		HRC-S-3	7.04	2483	1.000	0.057	0.050	0.012	0.018	0.000000	0.000000	-1167.49	560
3	GUIDE	used	394530152	7.46	4967	1.000	-0.102	0.165	0.151	0.262	166.075805	38.868252	-2312.23	79
4	GUIDE	used	394533848	8.71	4959	1.000	0.161	0.034	0.146	0.260	166.382906	38.276007	-133.30	807
5	GUIDE	used	394543960	9.73	4956	1.000	0.147	0.098	0.241	0.417	165.802757	37.787371	1522.05	-938
6	GUIDE	used	394546712	6.58	4967	1.000	-0.200	0.003	0.141	0.258	166.451462	38.394357	-545.10	1029
7	GUIDE	used	394546720	6.41	4966	1.000	-0.006	-0.306	0.160	0.273	166.130115	38.241361	-50.34	90

2.4 Star Slots

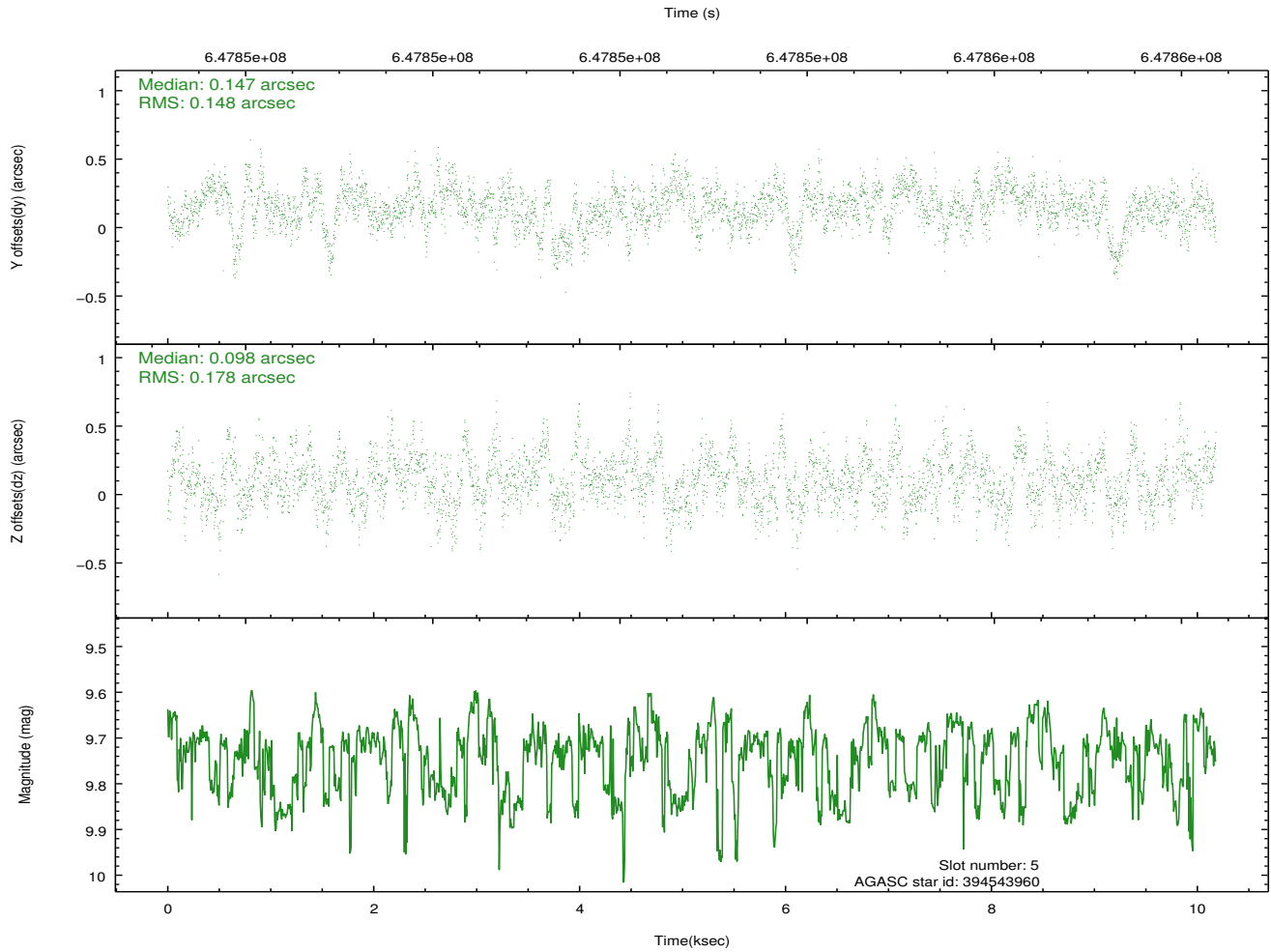
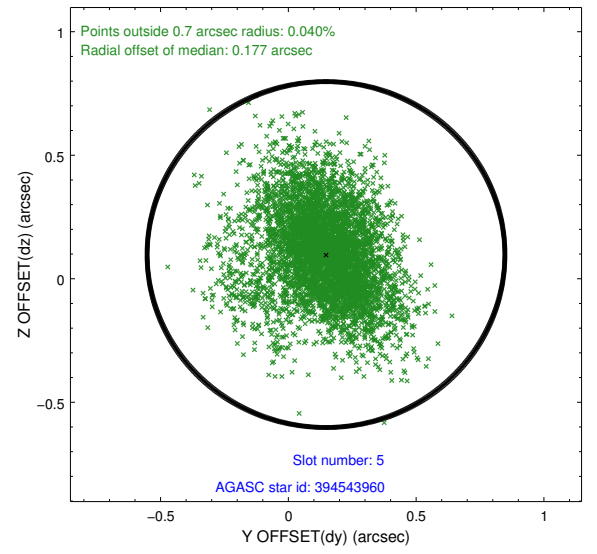
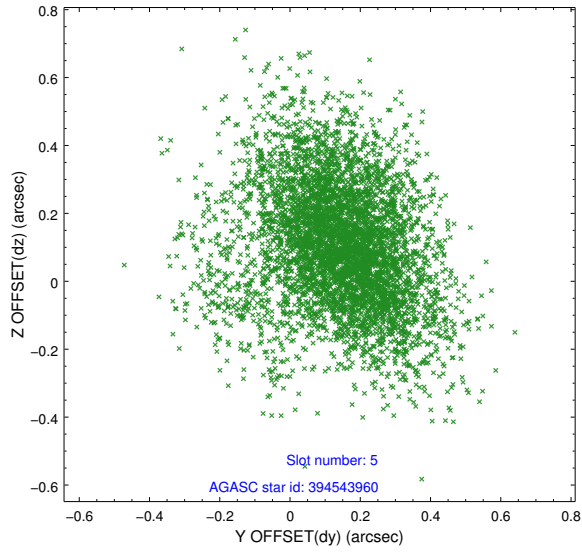
2.4.1 Slot 3



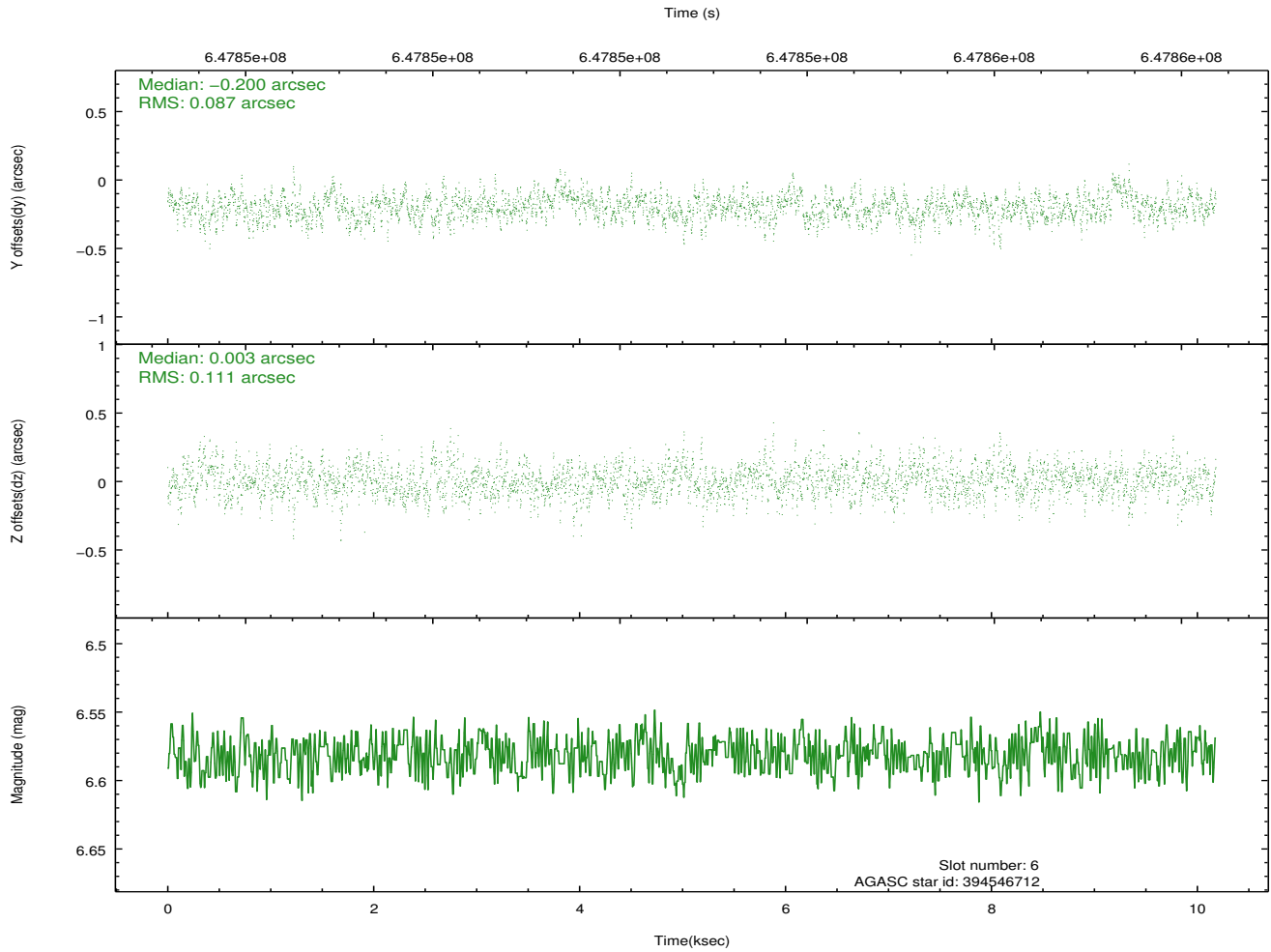
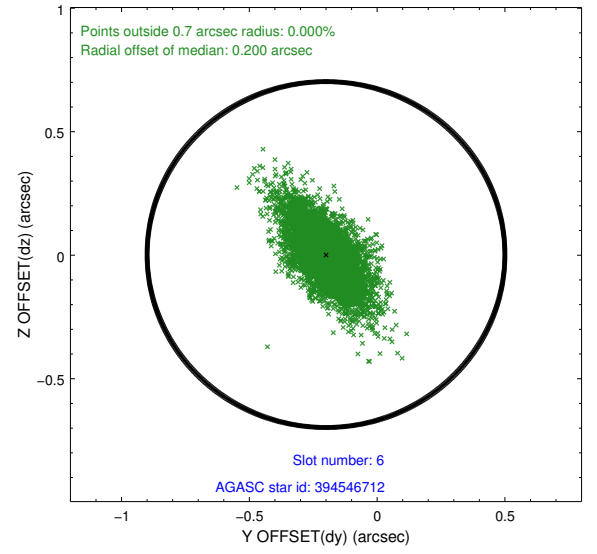
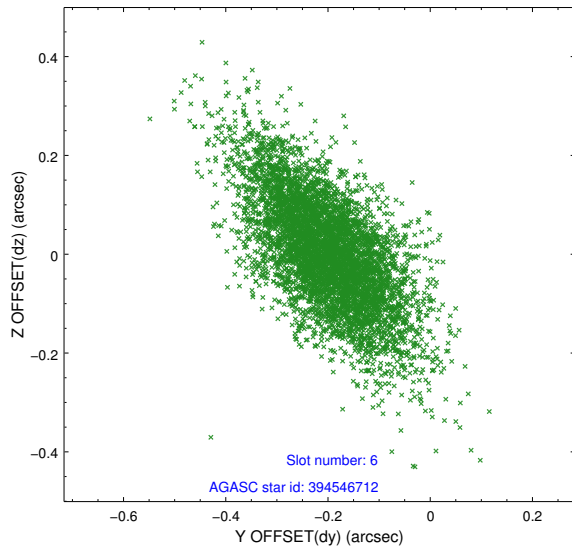
2.4.2 Slot 4



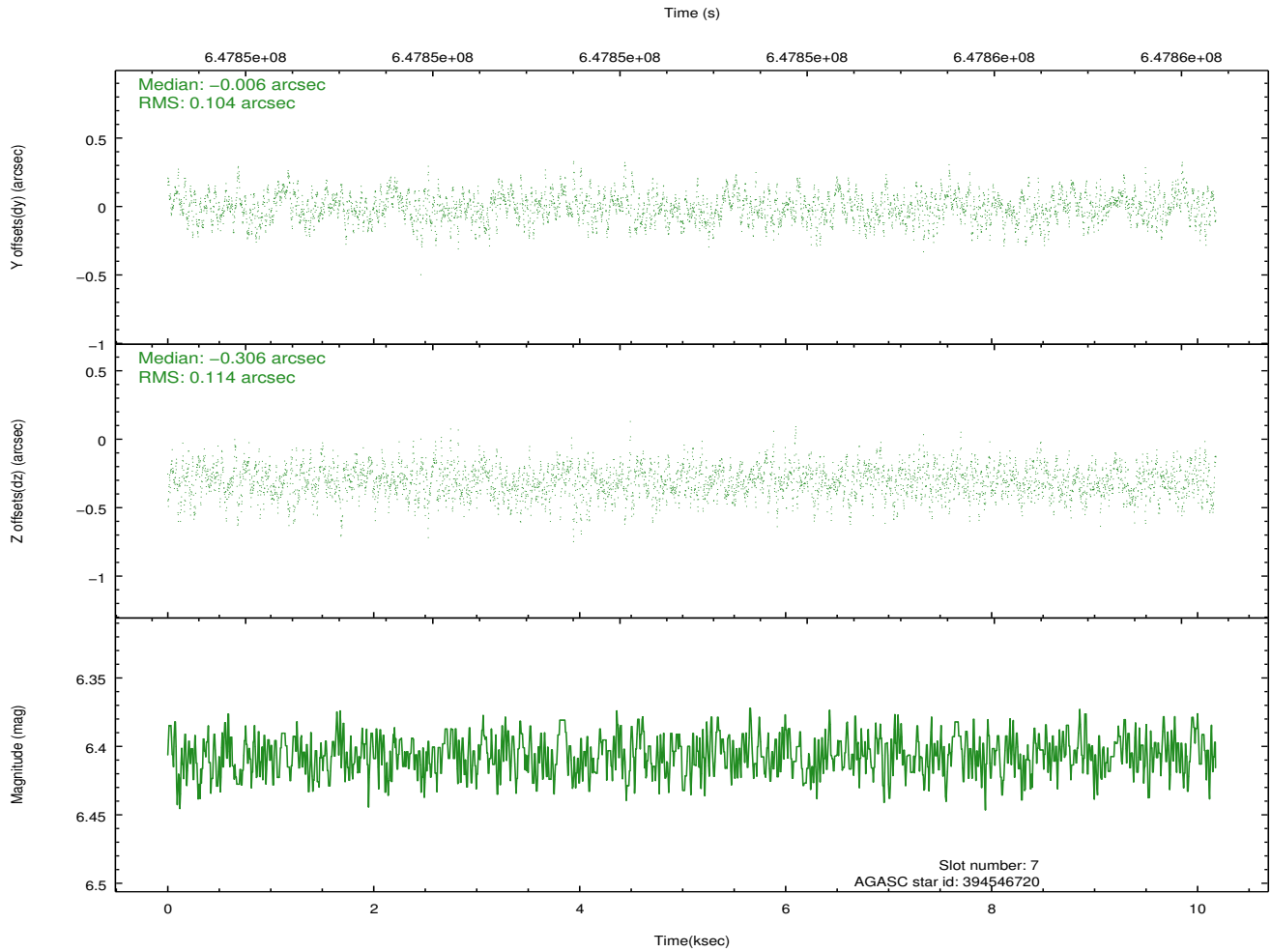
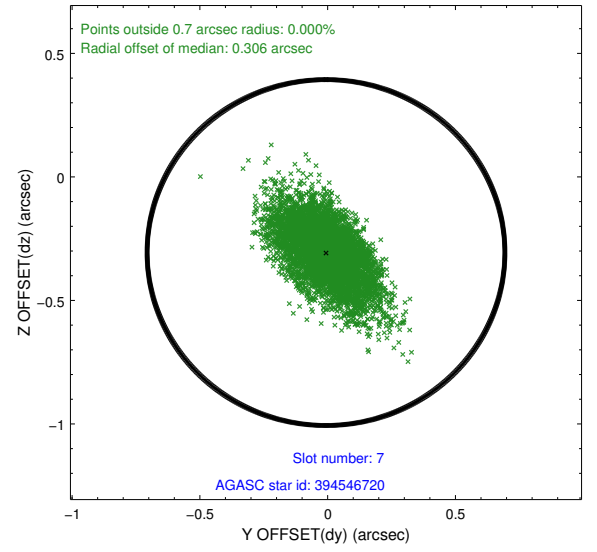
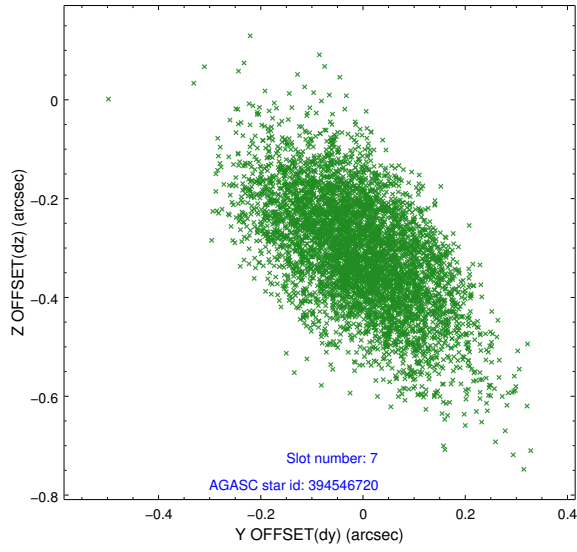
2.4.3 Slot 5



2.4.4 Slot 6

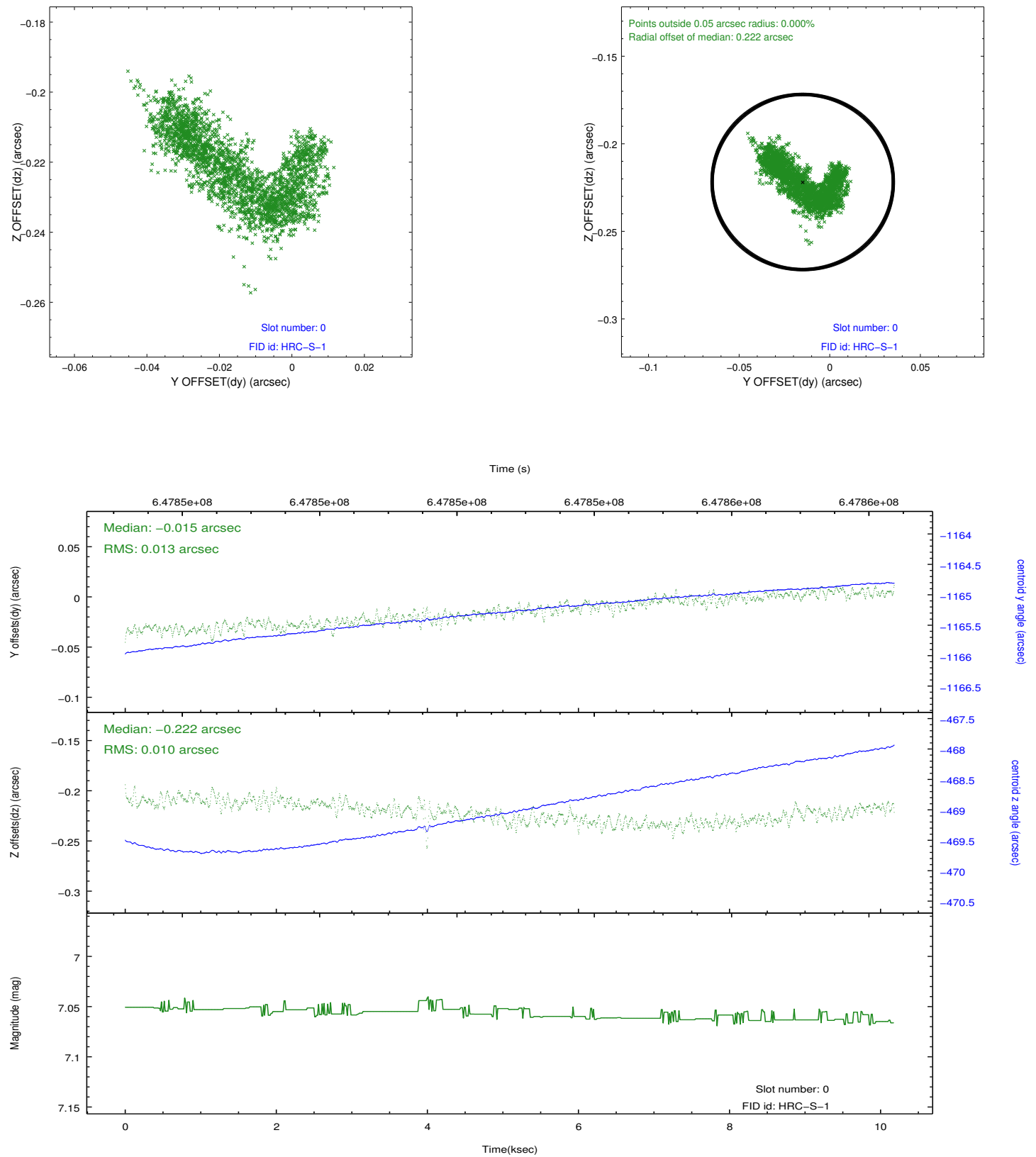


2.4.5 Slot 7

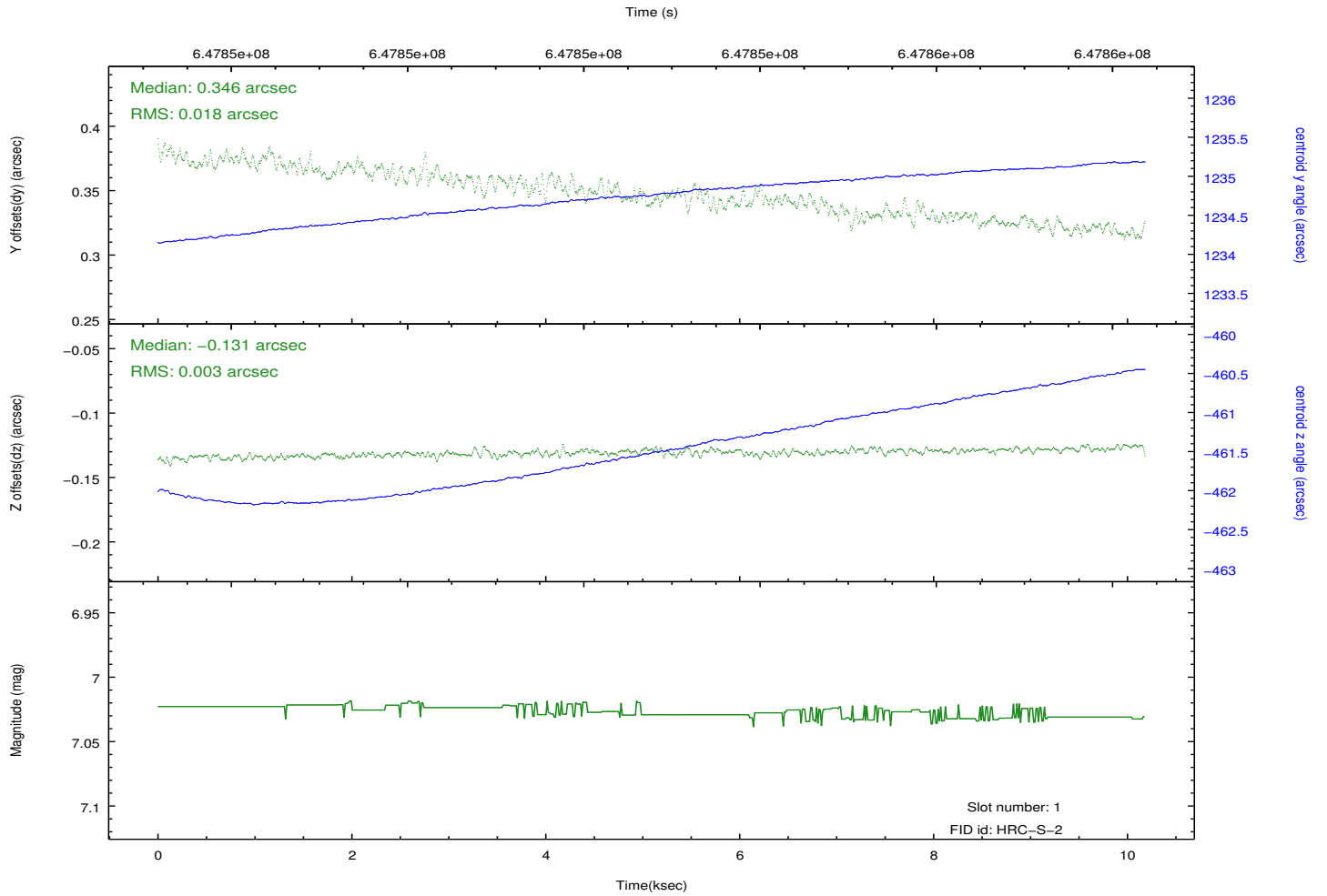
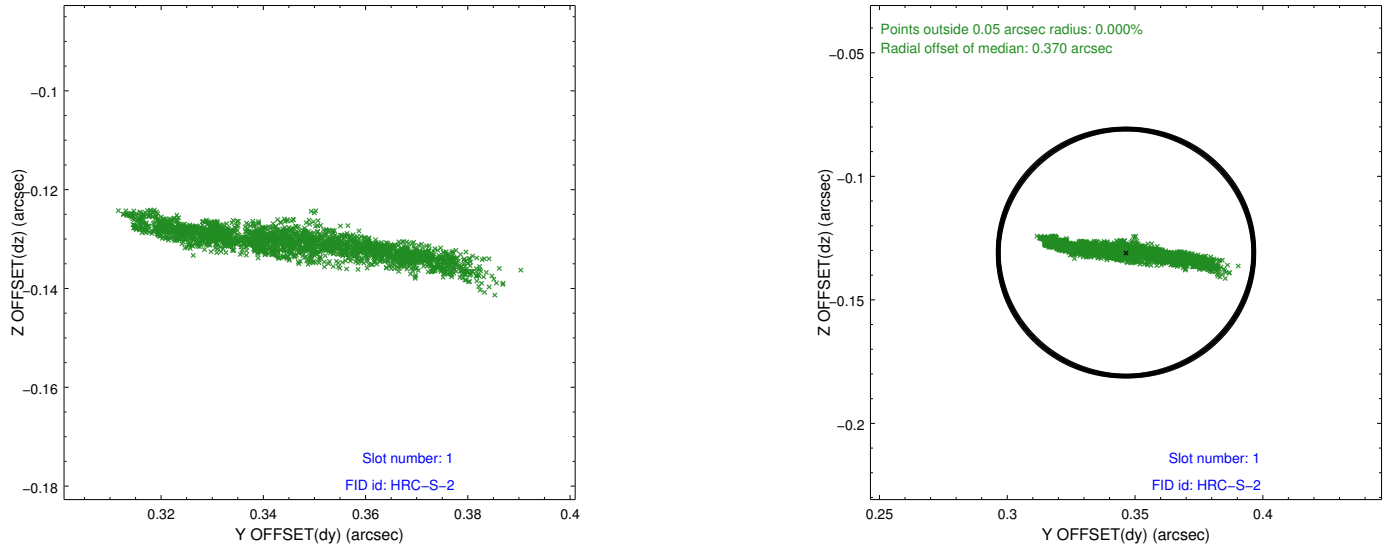


2.5 FID Slots

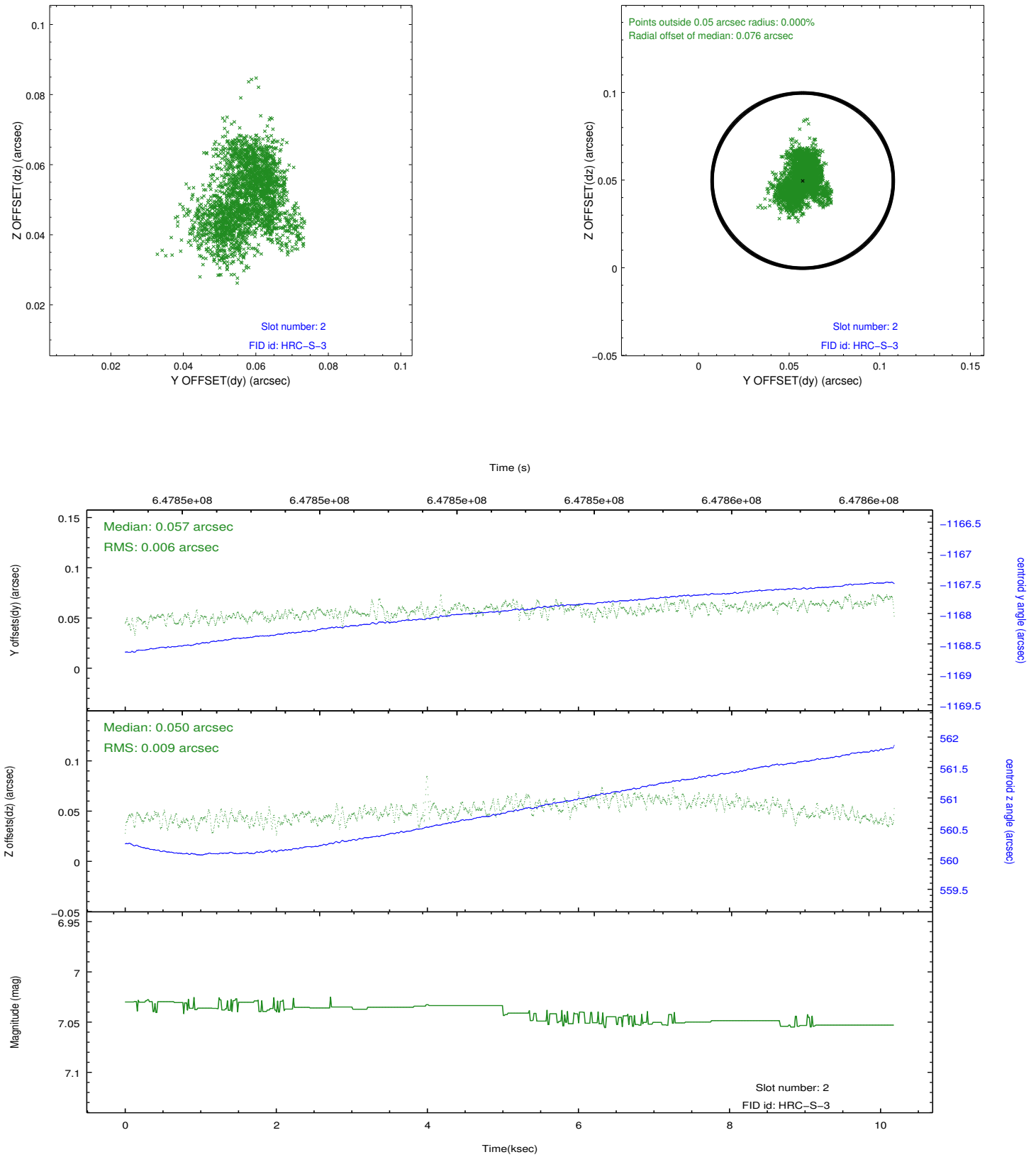
2.5.1 Slot 0



2.5.2 Slot 1

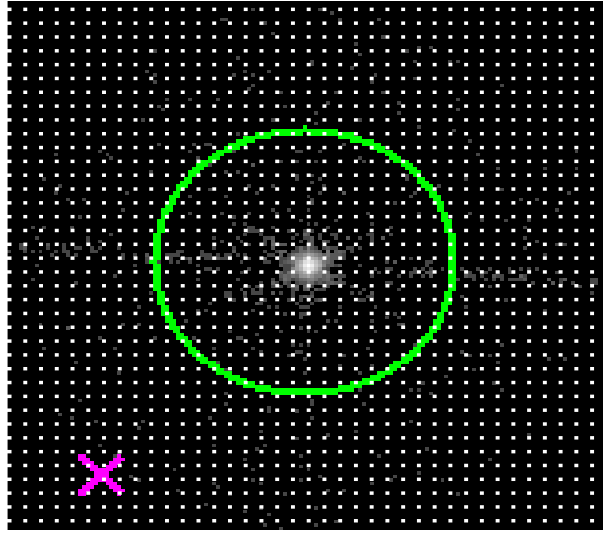


2.5.3 Slot 2

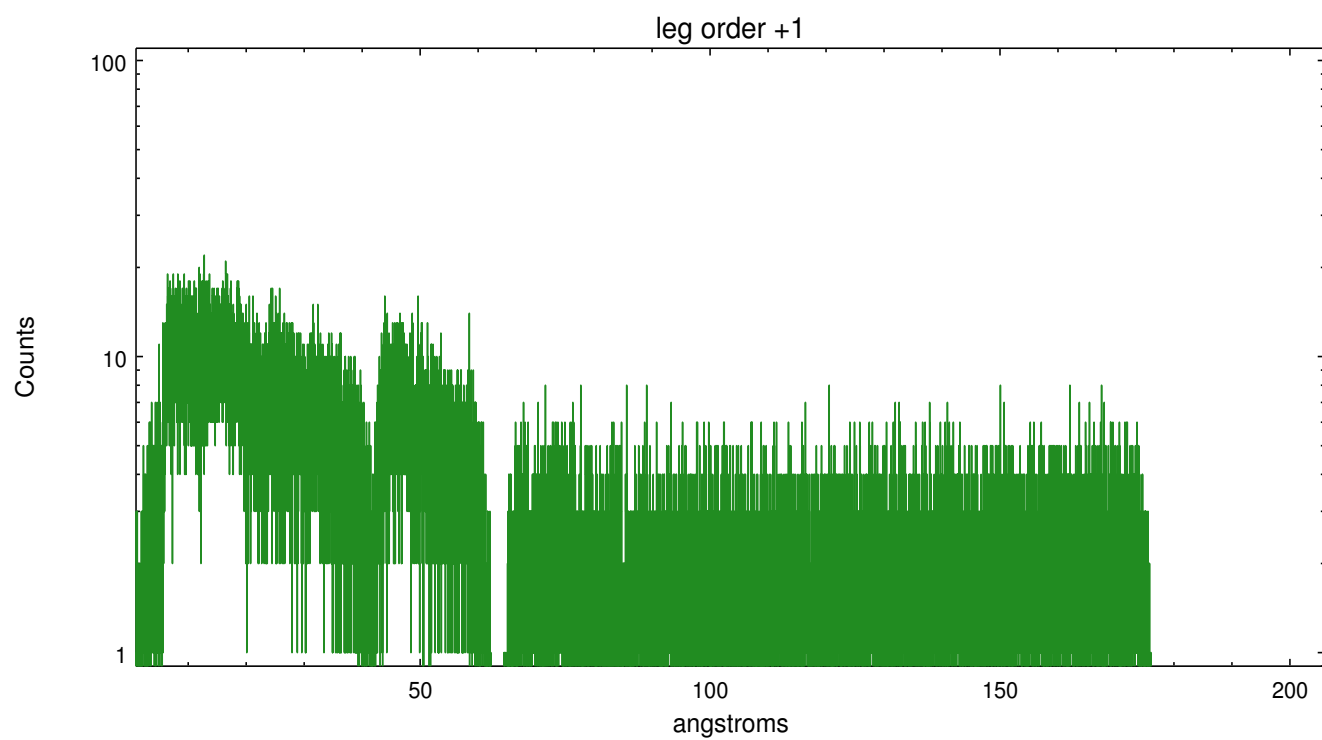
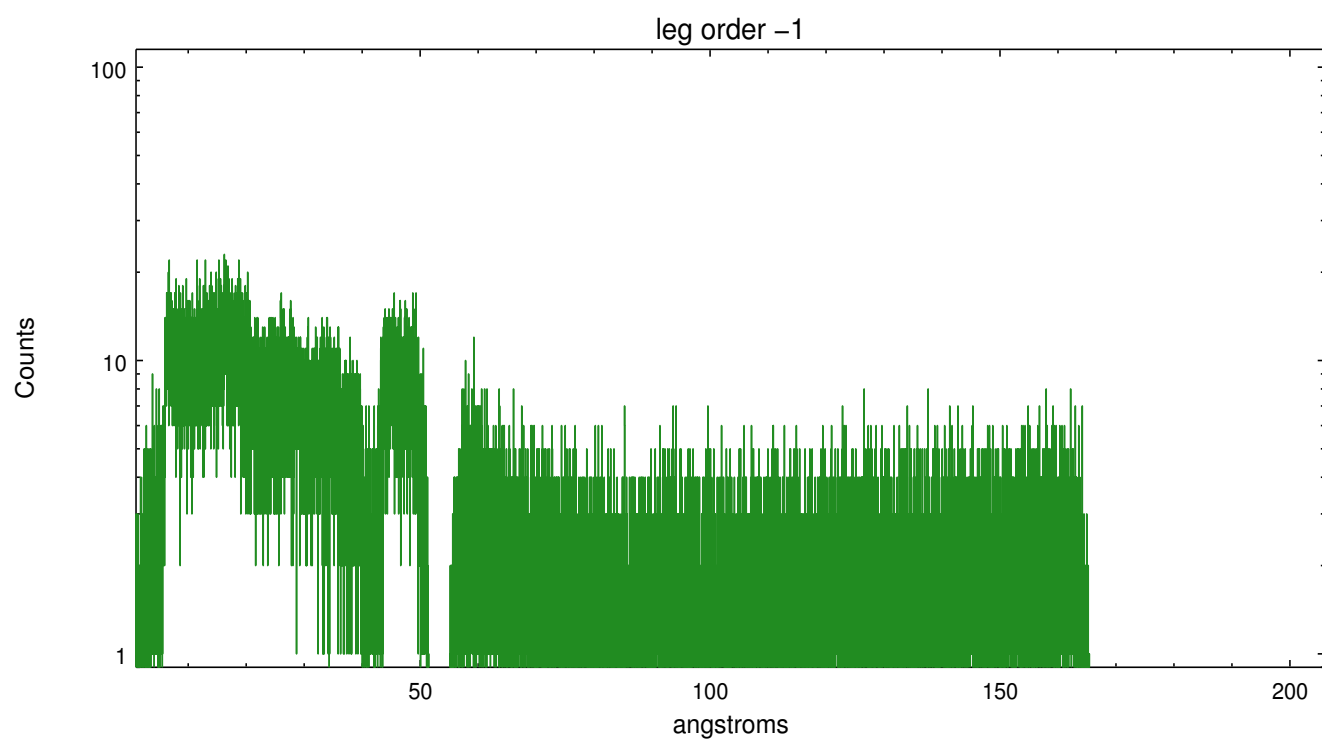


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2018.07.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.179531853318

A.2 Comments