

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5958 - L2 Version 5
Chandra X-Ray Center

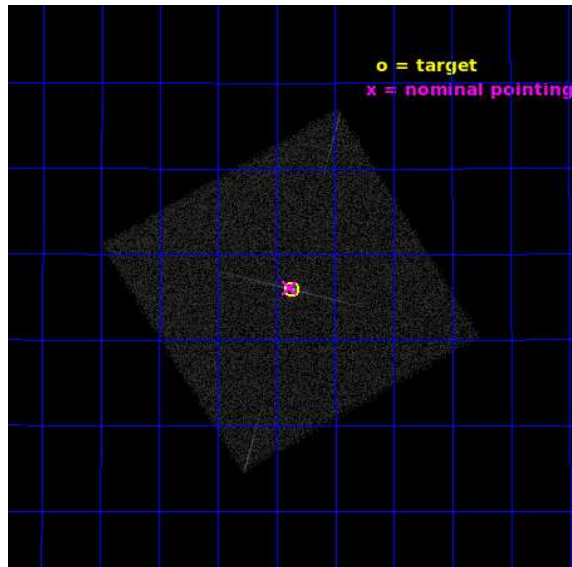
L2 Processing Date : Oct 6 2020

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

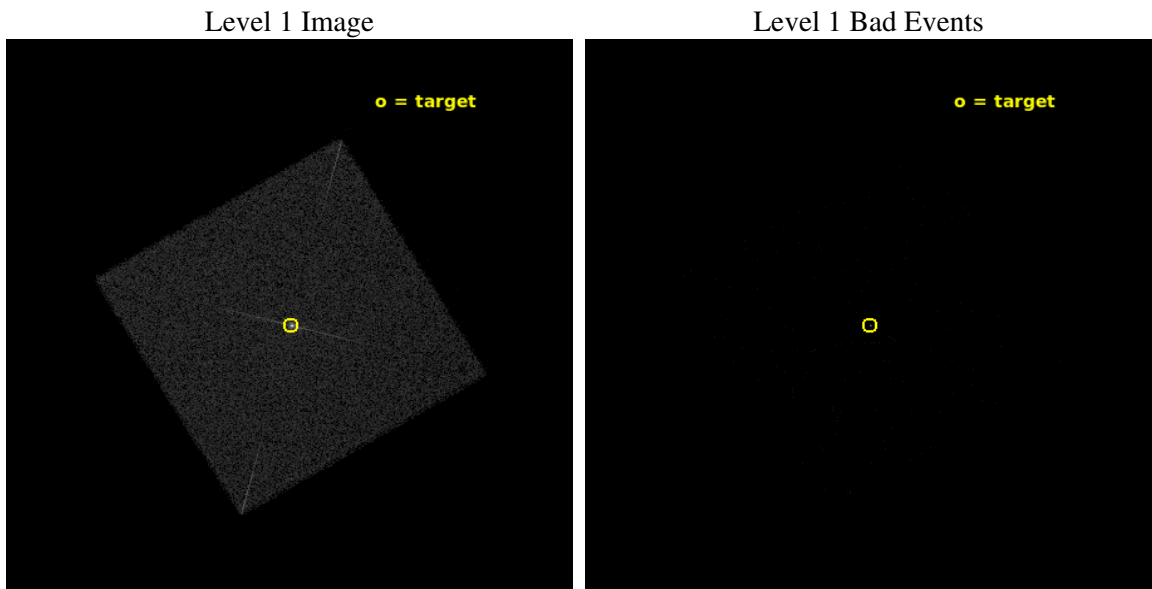
seq_num	290450	Sequence number
obs_id	5958	Observation id
title	AO6 Calibration Observations of HZ43	Proposal title
observer	CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.092083	Observer's specified target RA [deg]
dec_targ	29.099	Observer's specified target Dec [deg]
ra_nom	199.09635836425	Nominal RA [deg]
dec_nom	29.101772272615	Nominal Dec [deg]
roll_nom	104.1753853286	Nominal Roll [deg]
revision	5	Processing version of data
ontime	2180.1750986874	[s]
livetime	2165.5740365832	Ontime multiplied by DTCOR
l2events	83105	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	2180.1750986874	[s]
caldbver	4.9.2	 	l1events	152970	Number of level 1 events
date	2020-10-06T21:42:28	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	5	Processing version of data	zo_pos	(16517.81, 16298.45)	src1a sky pixel position

2.1.3 Events

Level 1 Events

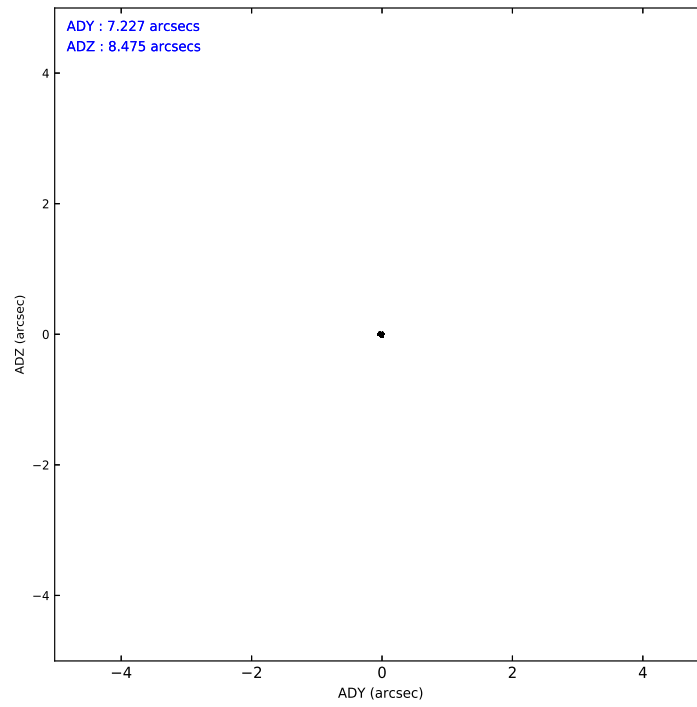
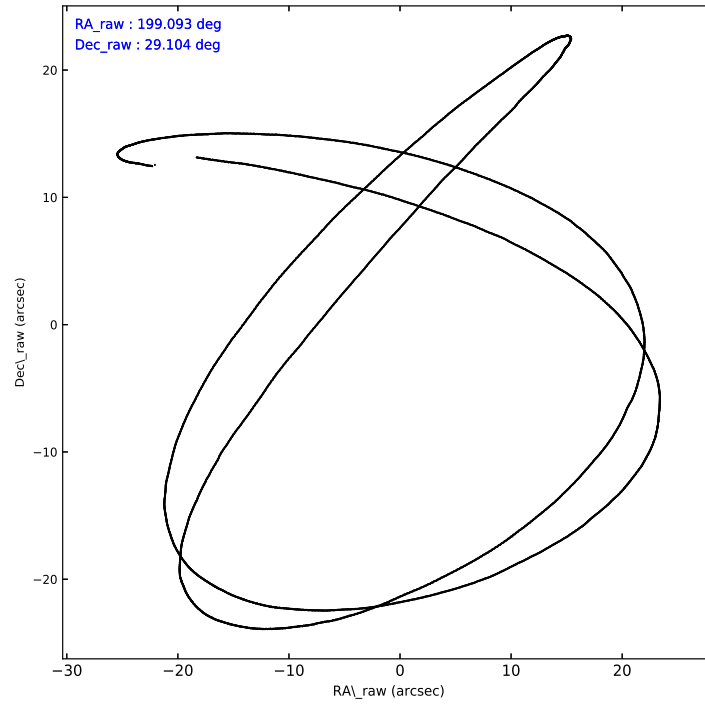
	segment 0
level 1 events	152970
rejected events	33385
rejected %	21%

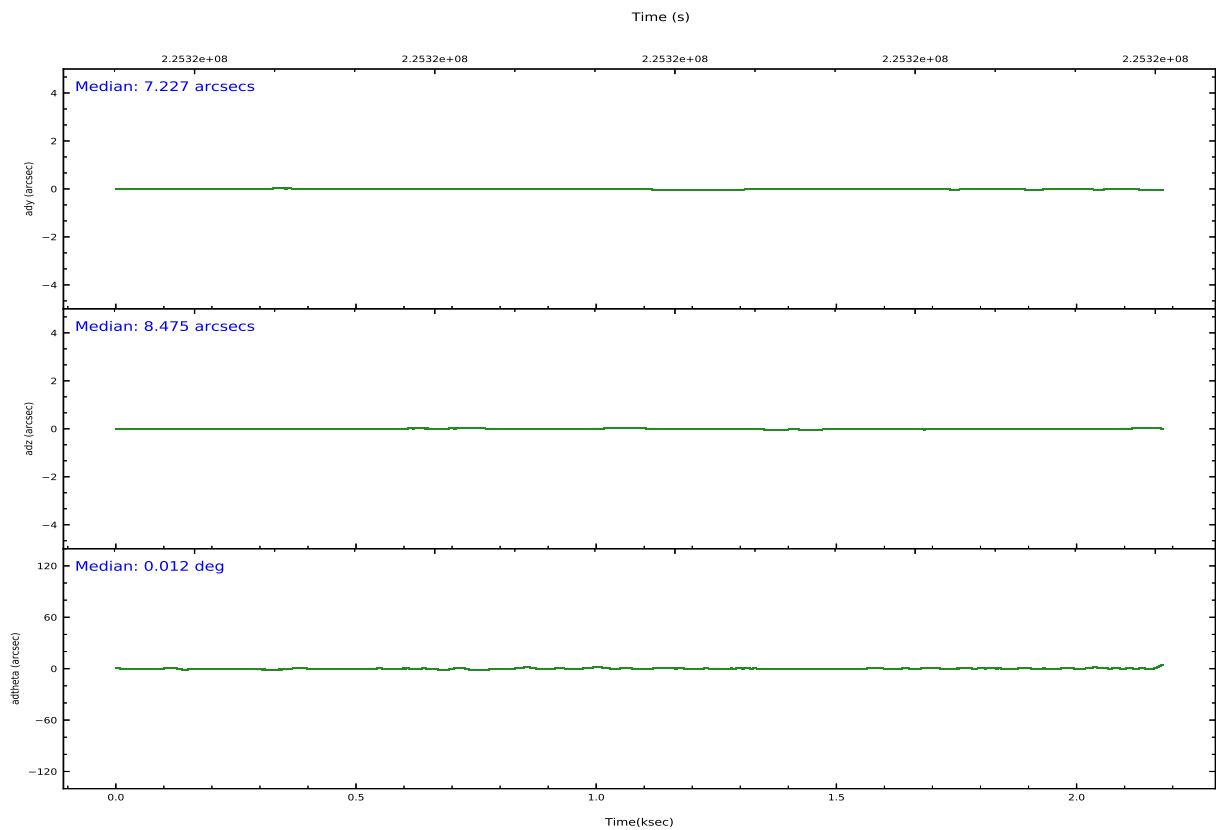
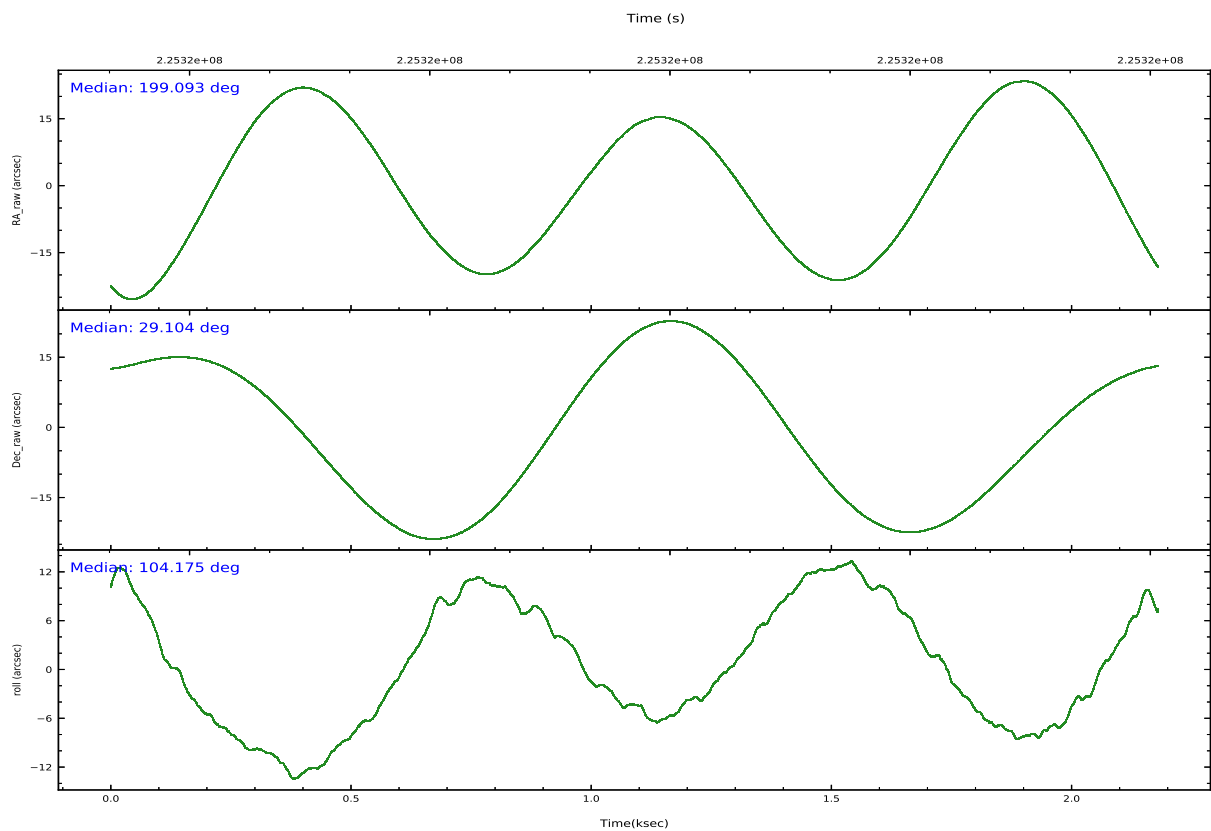
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	LETG	LETG
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	199.114913	199.09635836425
[deg] Pointing Dec	29.084133	29.101772272615
[deg] Pointing Roll	104.275273	104.1753853286
[s] Window start time (MET)	218246464.184000	218246464.184000
[s] Window stop time (MET)	225936064.184000	225936064.184000
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9854943052878
[mm] SIM translation stage offset	0	-5.413686238853188e-06
[s] Observation start time (MET)	225321016.184000	225320246.81052
Observation start date	2005-02-20T21:09:12	2005-02-20T20:57:26
[s] Observation end time (MET)	225323016.184000	225323795.36068
Observation end date	2005-02-20T21:42:32	2005-02-20T21:56:35

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect



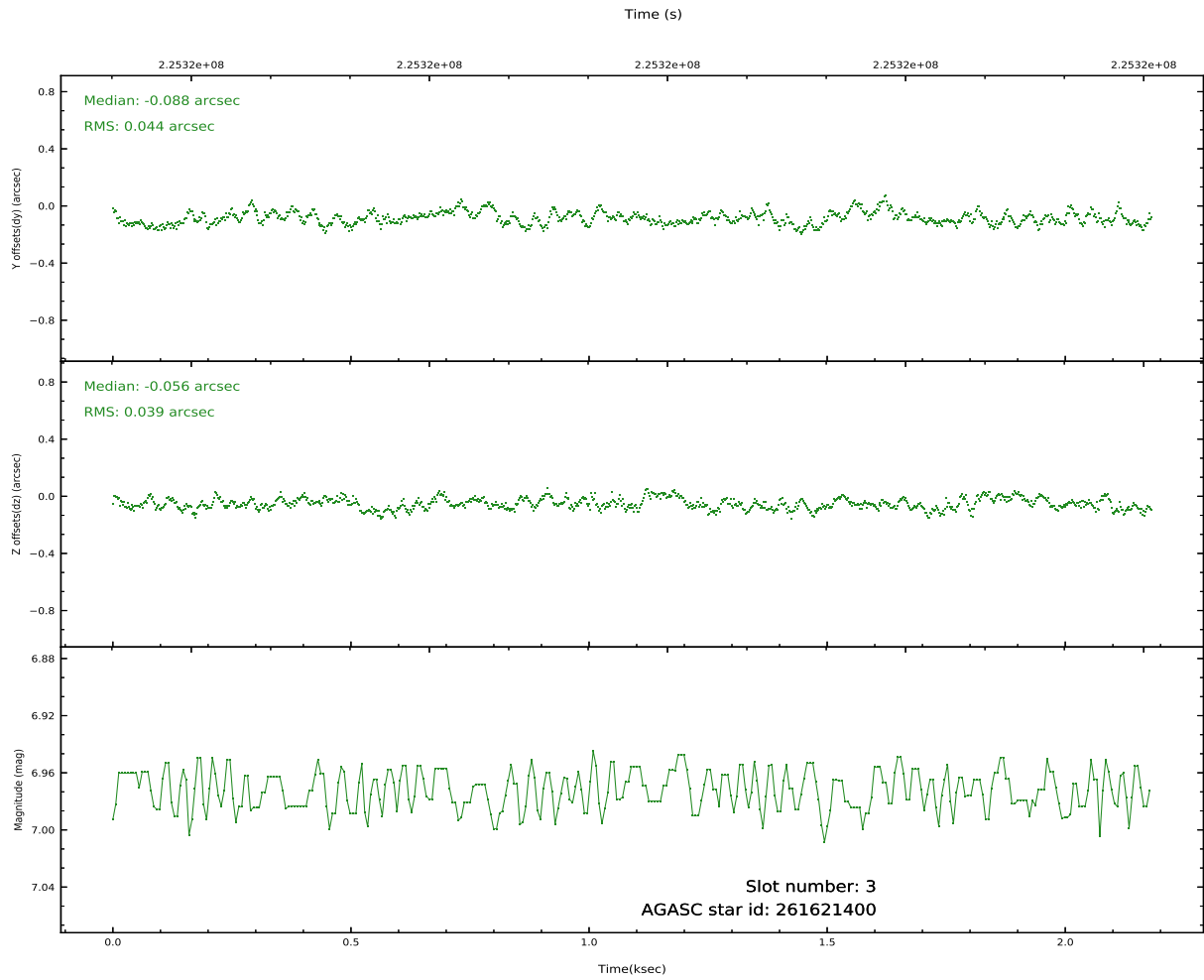
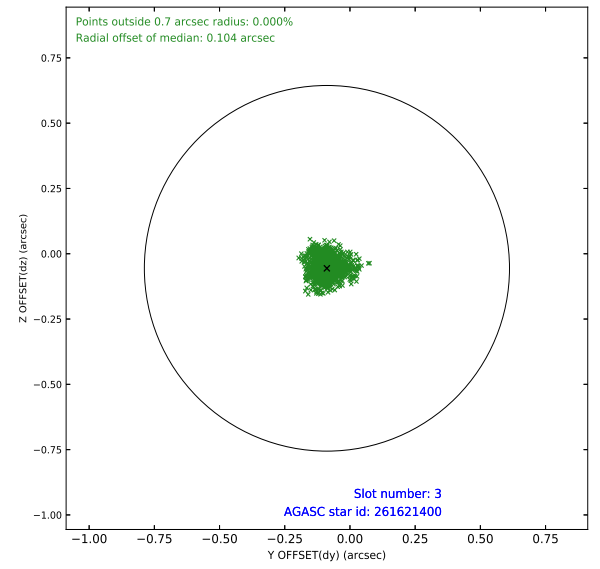
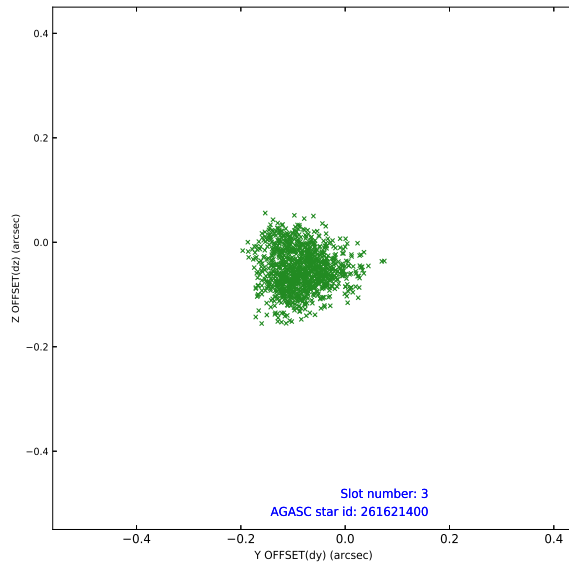


Slot Statistics

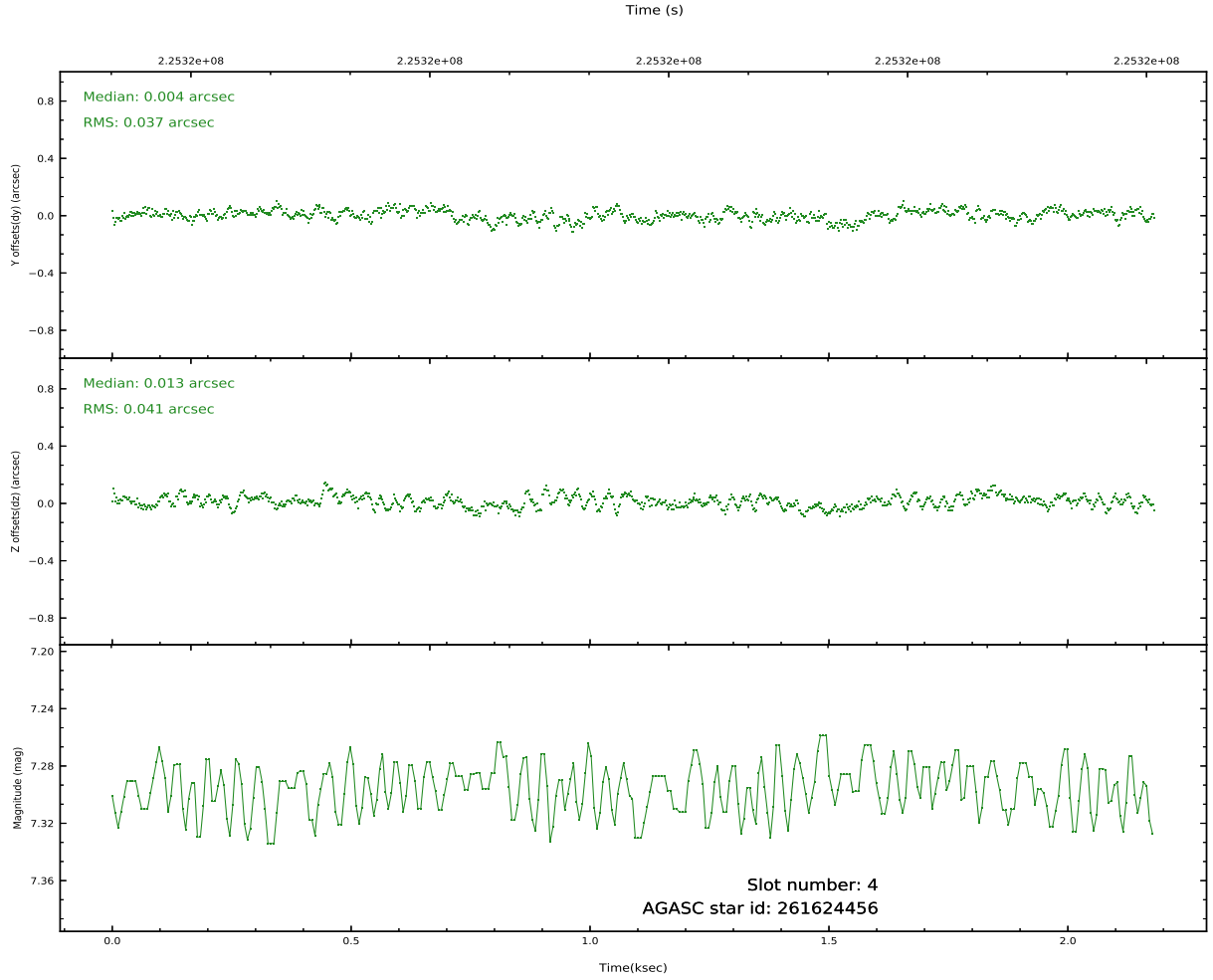
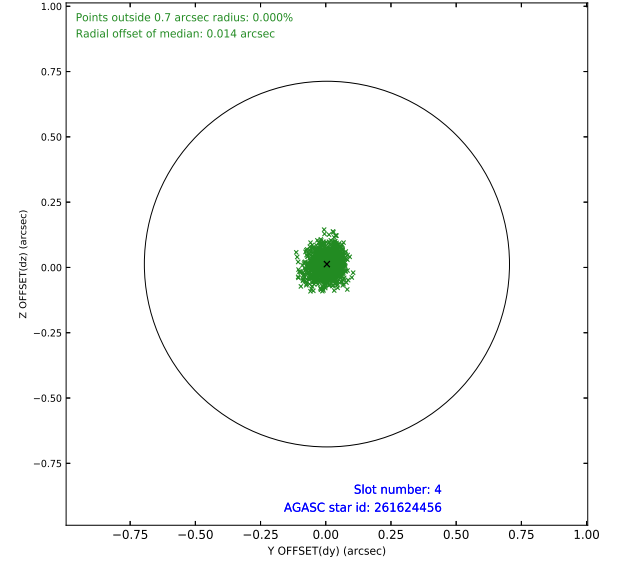
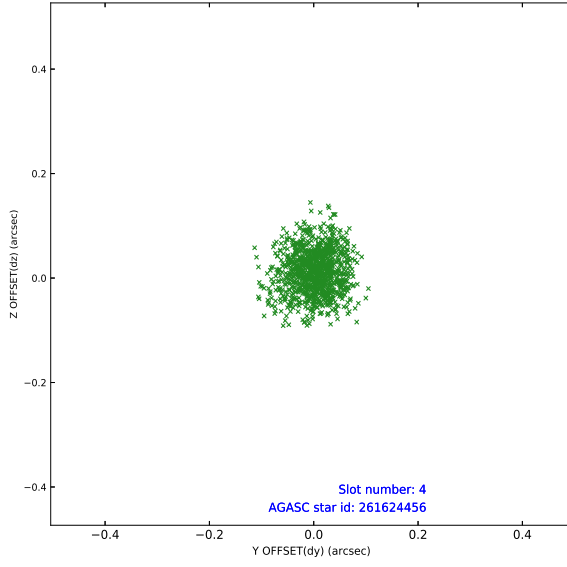
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	6.99	532	1.000	-0.052	-0.035	0.006	0.009	0.000000	0.000000	-762.95	-1296
1	FID		HRC-I-2	7.02	532	1.000	0.117	-0.093	0.008	0.012	0.000000	0.000000	848.42	-1300
2	FID		HRC-I-4	7.02	532	1.000	0.051	0.036	0.006	0.011	0.000000	0.000000	1281.69	1003
3	GUIDE	used	261621400	6.97	1065	1.000	-0.088	-0.056	0.063	0.101	198.901600	28.741982	-1027.06	957
4	GUIDE	used	261624456	7.30	1065	1.000	0.004	0.013	0.060	0.096	199.758056	28.567828	-2297.54	-1511
5	GUIDE	used	261626376	9.71	1063	1.000	0.090	-0.067	0.140	0.221	198.947288	29.347445	1046.80	275
6	GUIDE	used	261629720	8.12	1065	1.000	0.008	0.107	0.067	0.108	199.236176	29.044452	-231.22	-333
7	GUIDE	used	261619776	8.80	1064	1.000	-0.010	-0.003	0.073	0.114	198.654383	29.401174	1464.58	1118

2.4 Star Slots

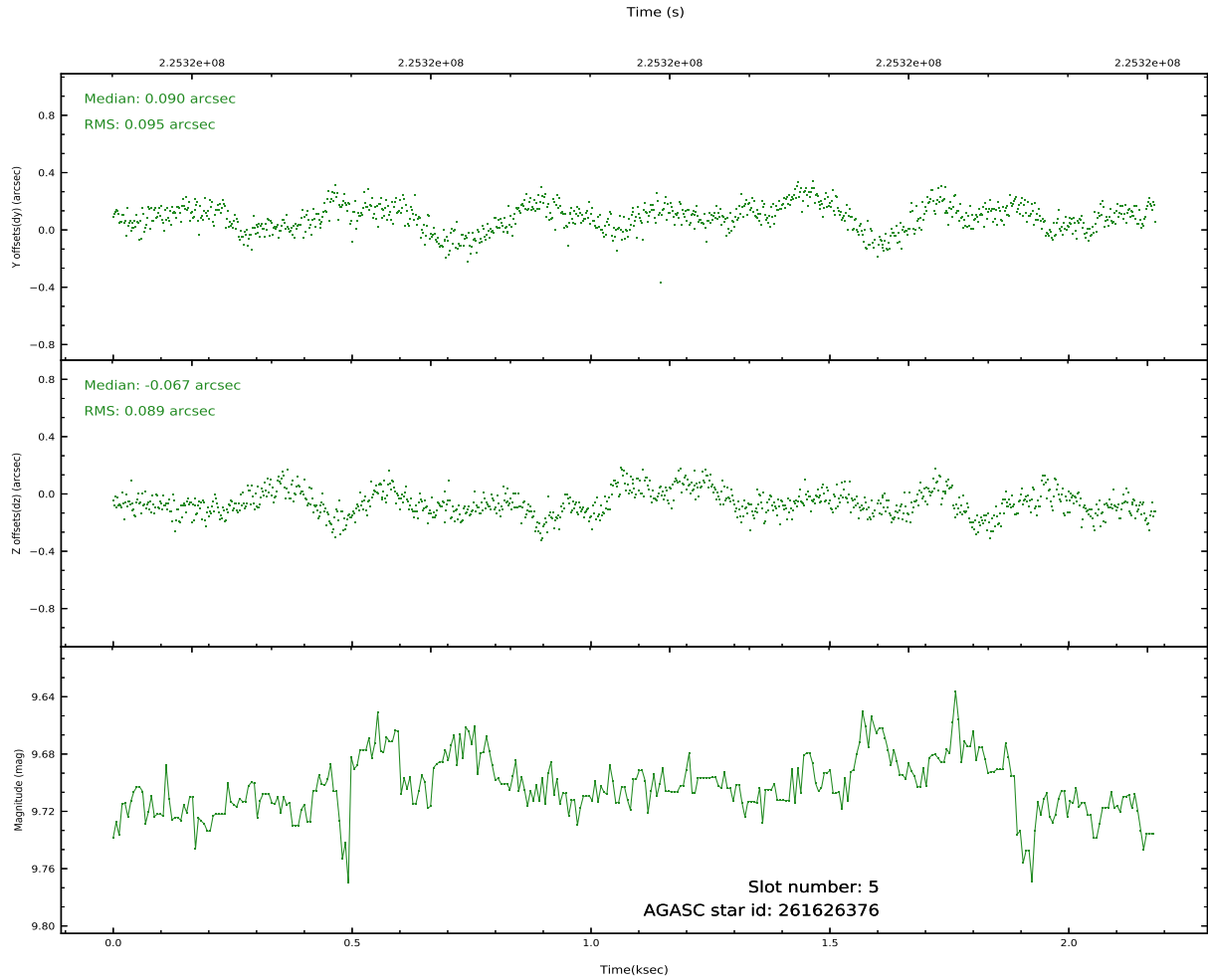
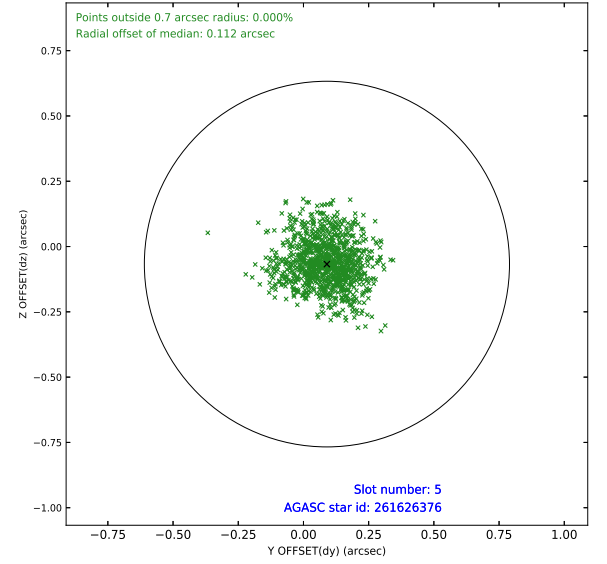
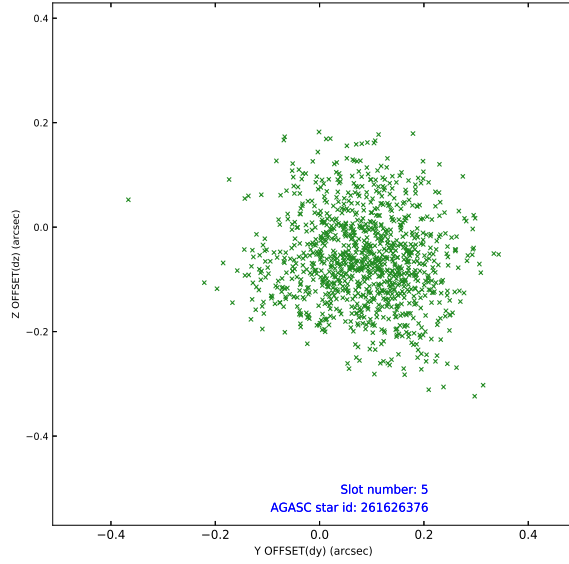
2.4.1 Slot 3



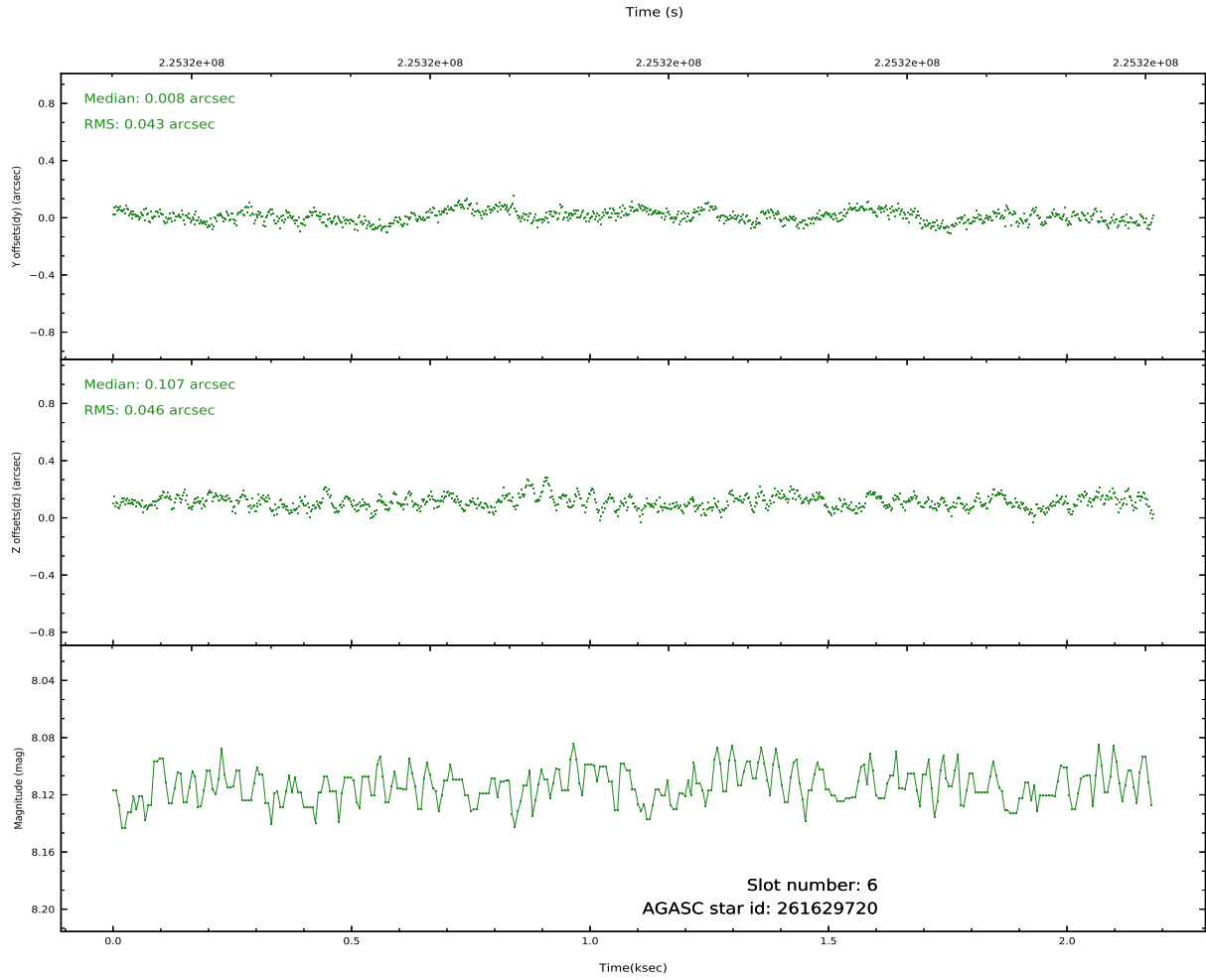
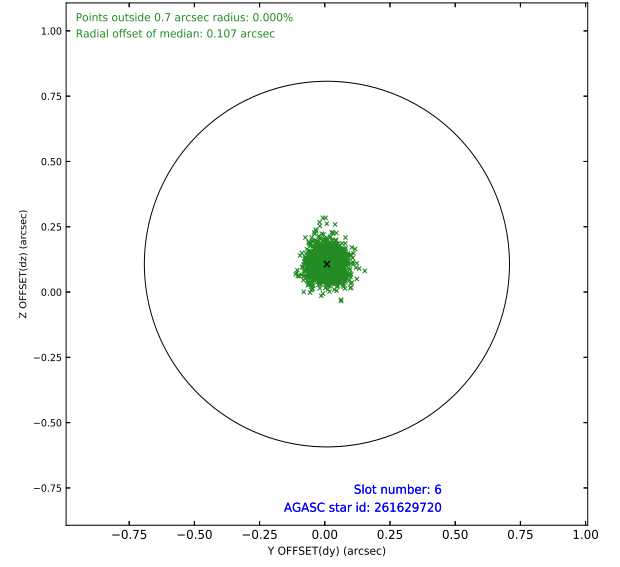
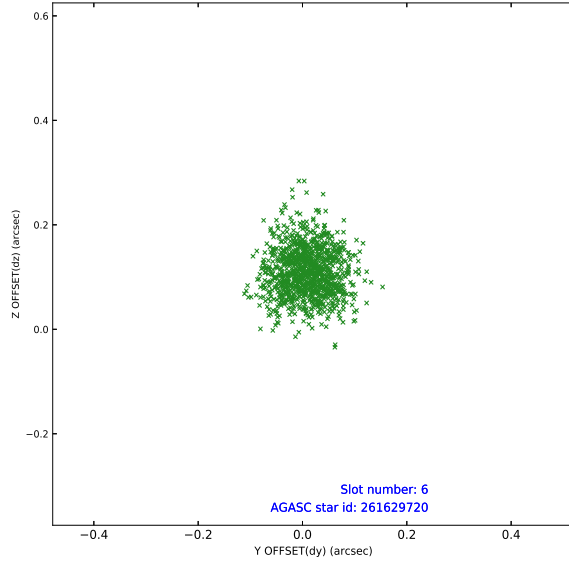
2.4.2 Slot 4



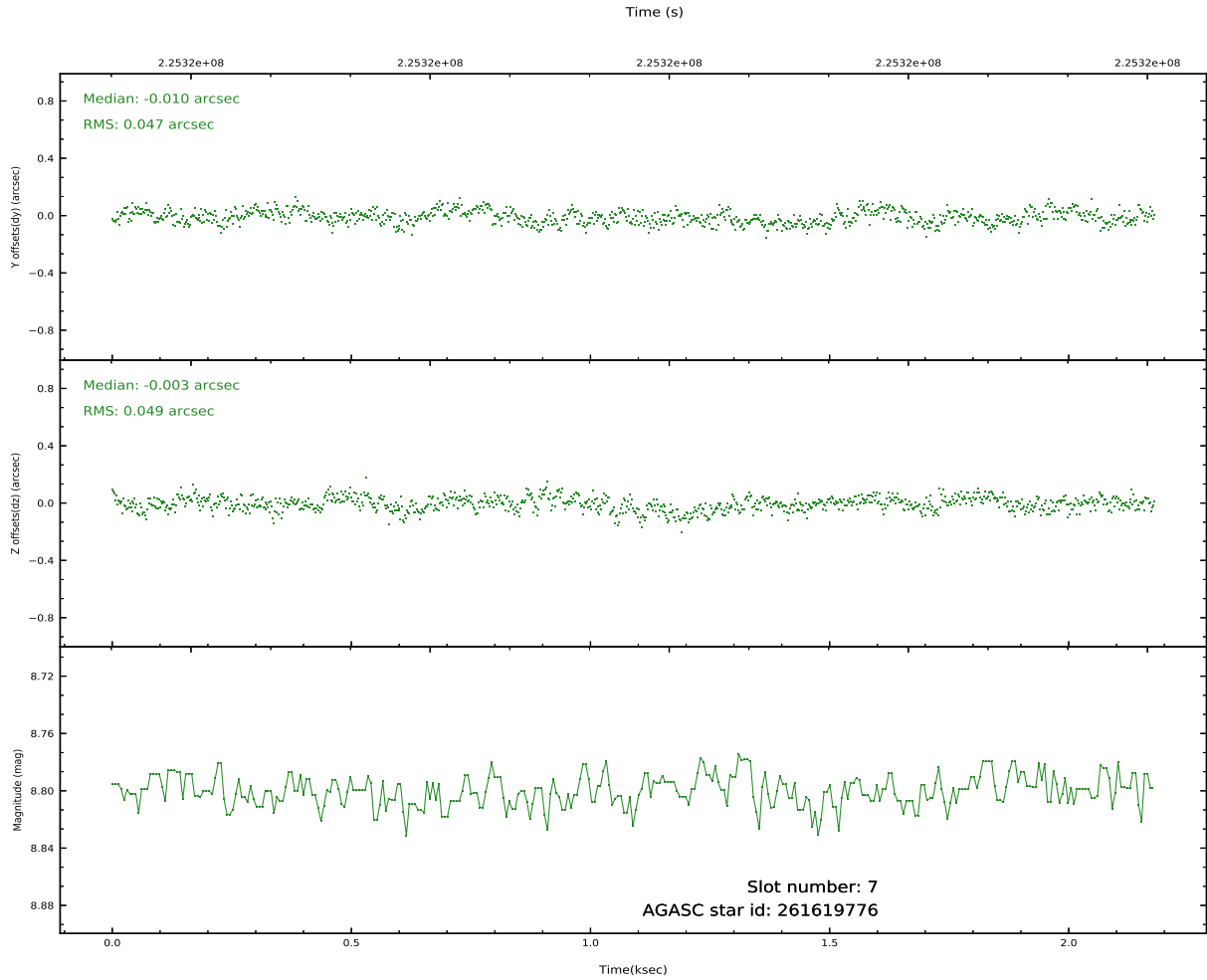
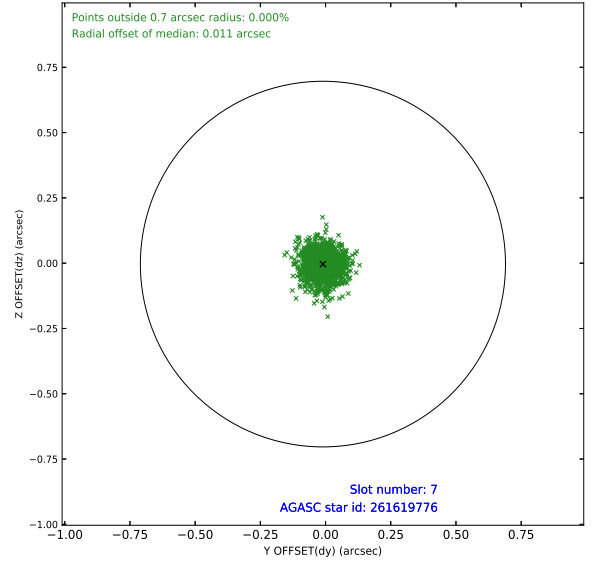
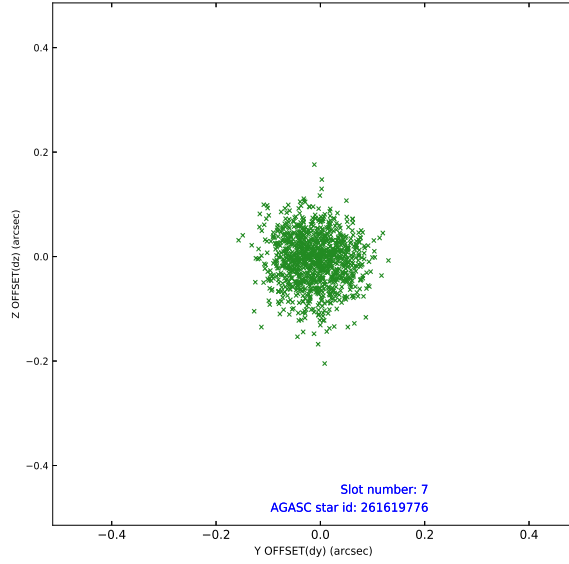
2.4.3 Slot 5



2.4.4 Slot 6

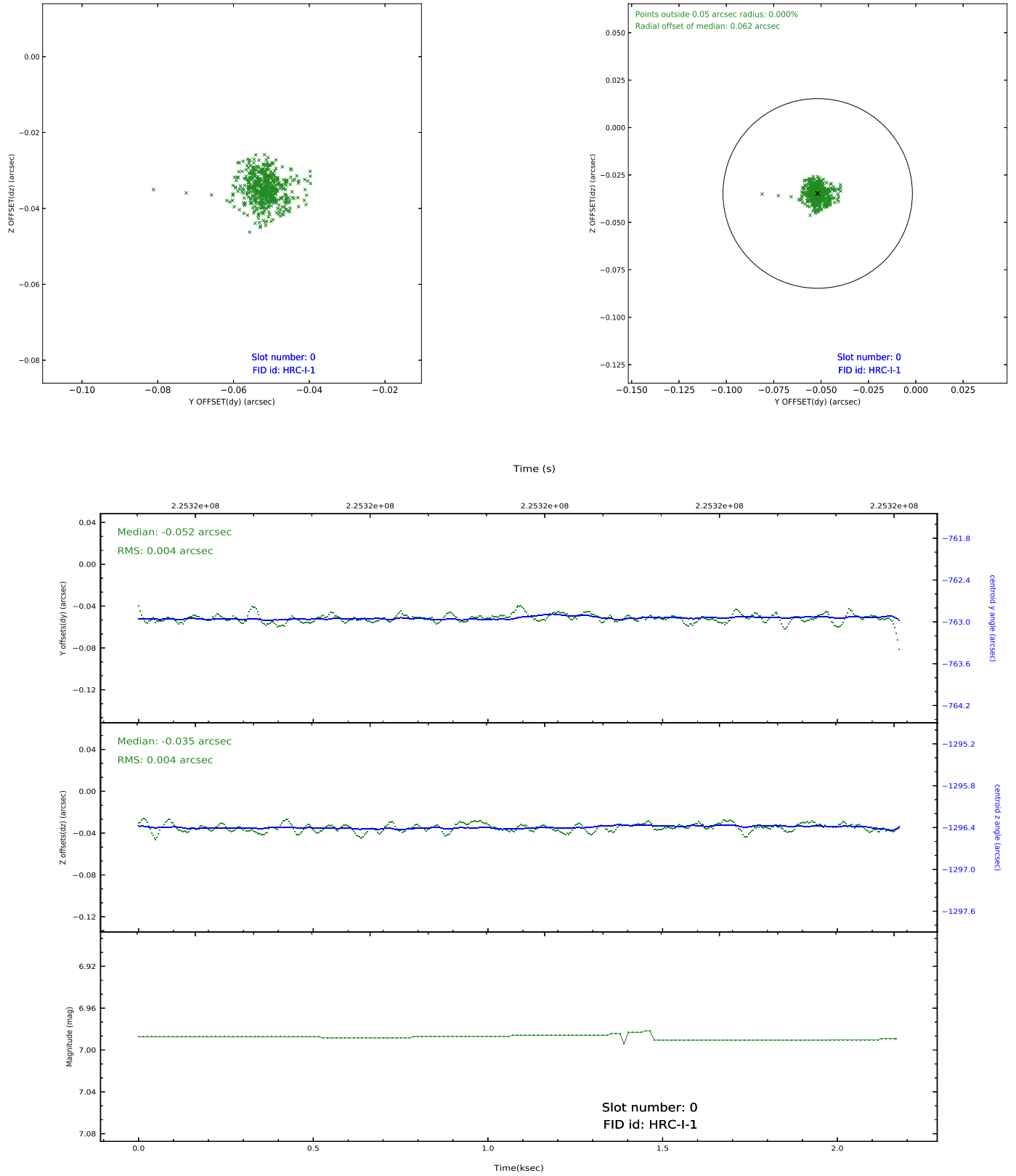


2.4.5 Slot 7

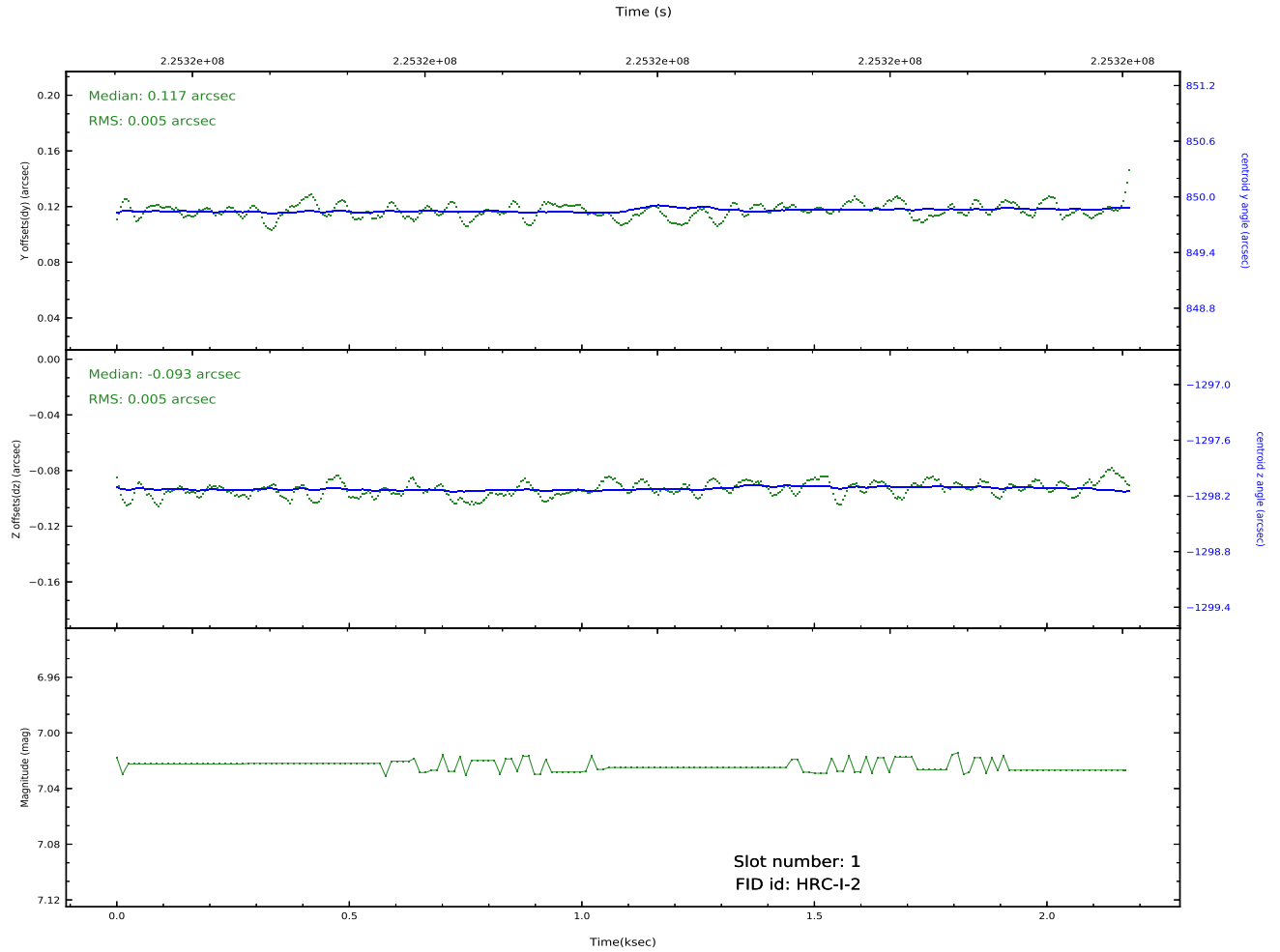
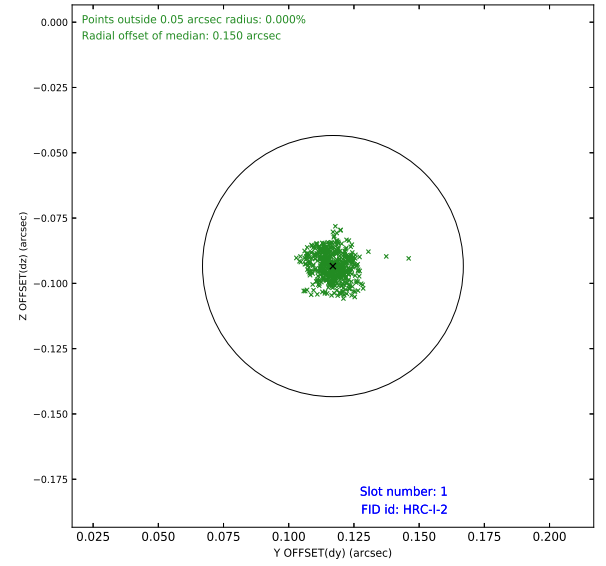
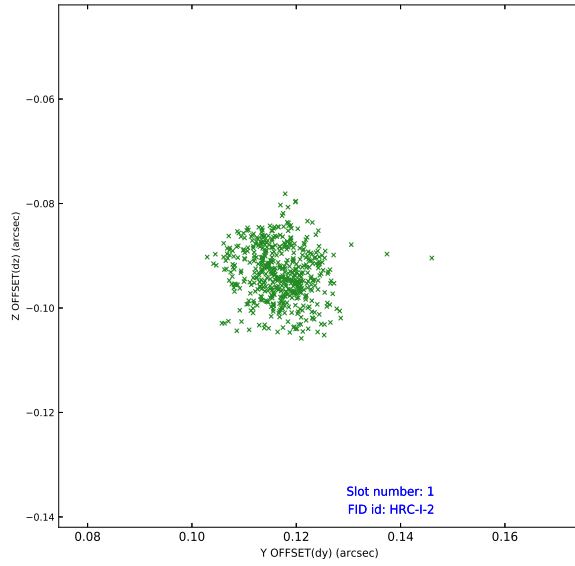


2.5 FID Slots

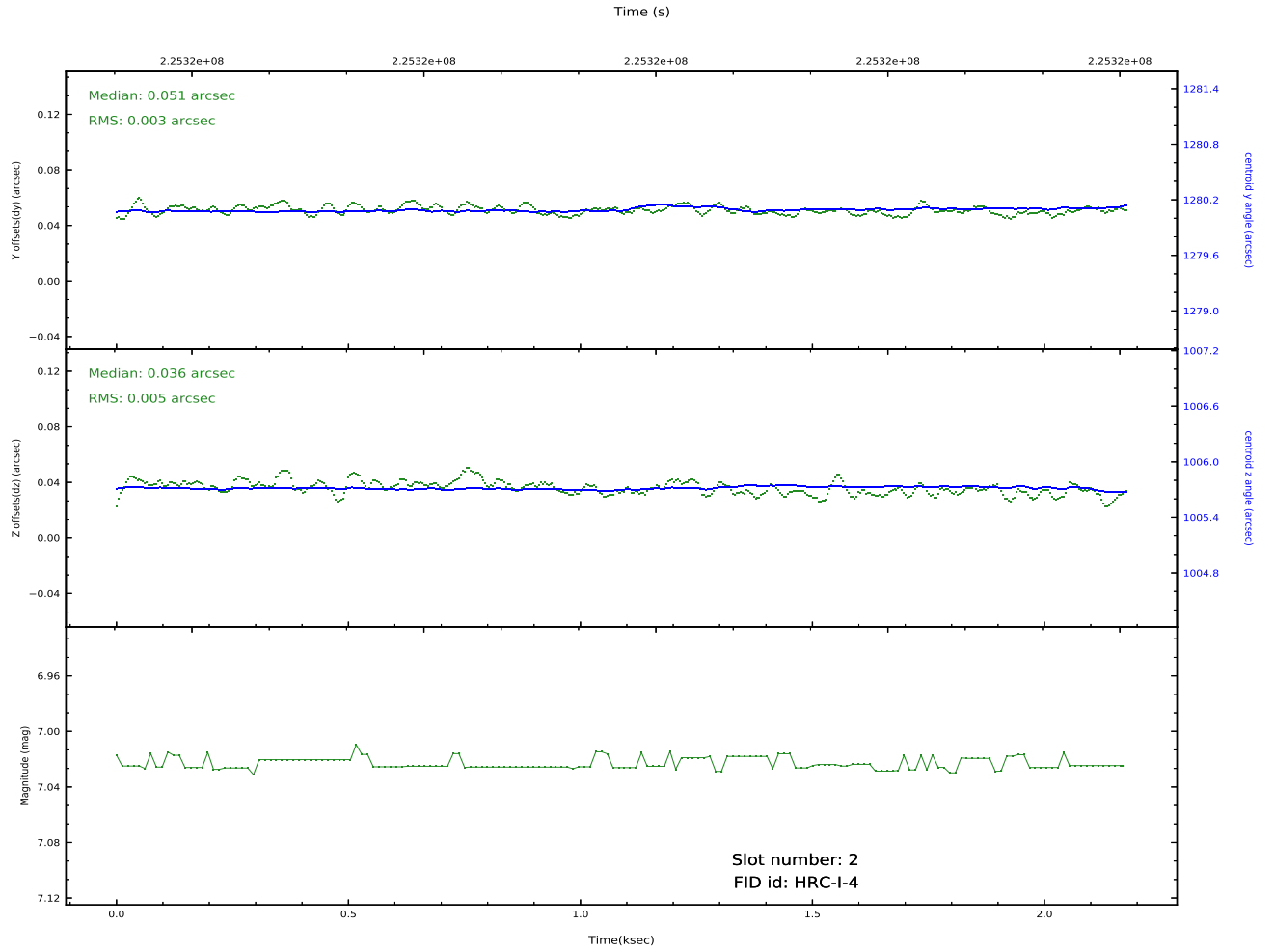
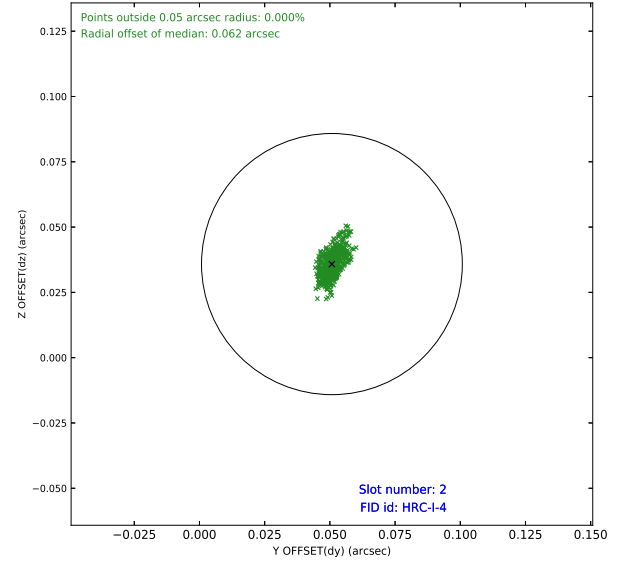
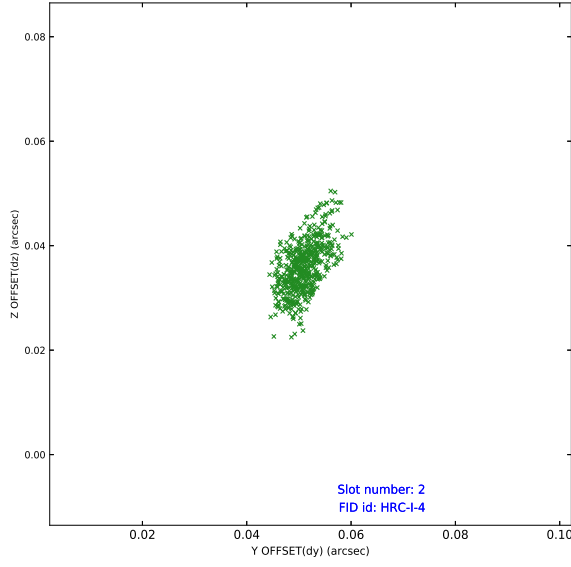
2.5.1 Slot 0



2.5.2 Slot 1

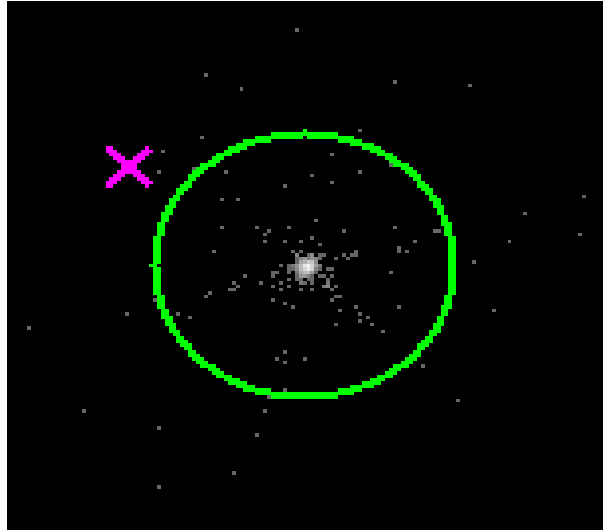


2.5.3 Slot 2

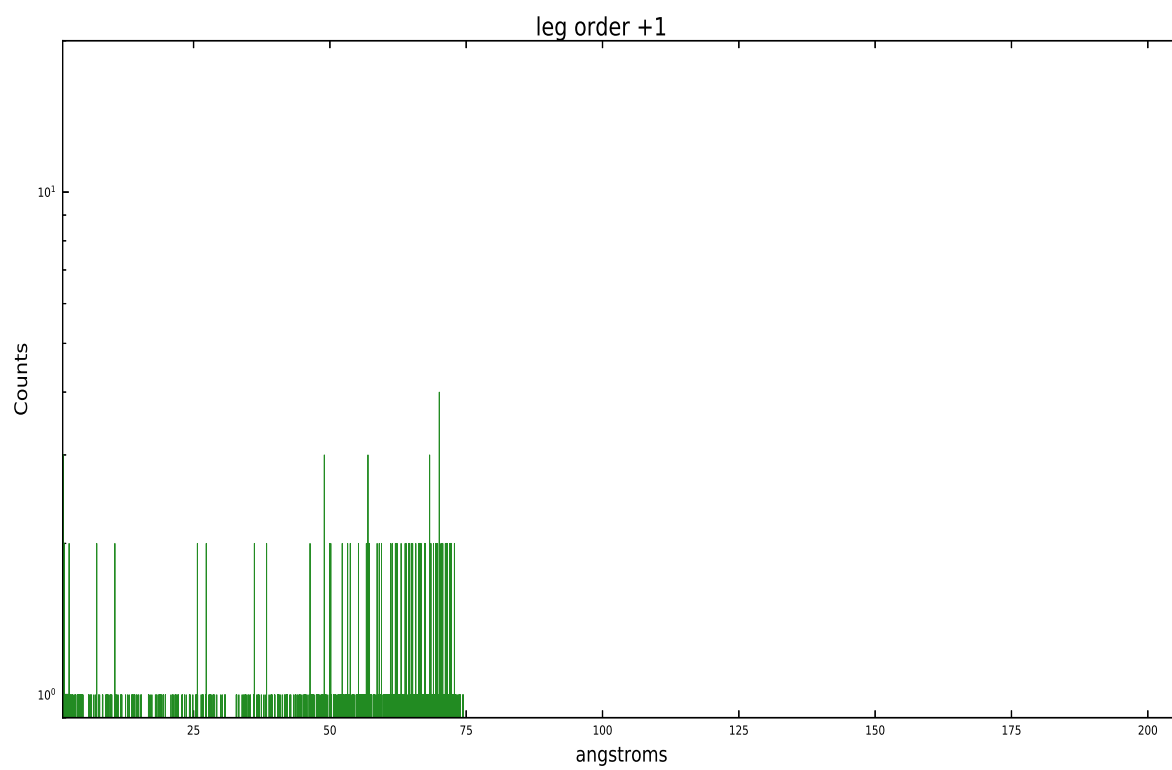
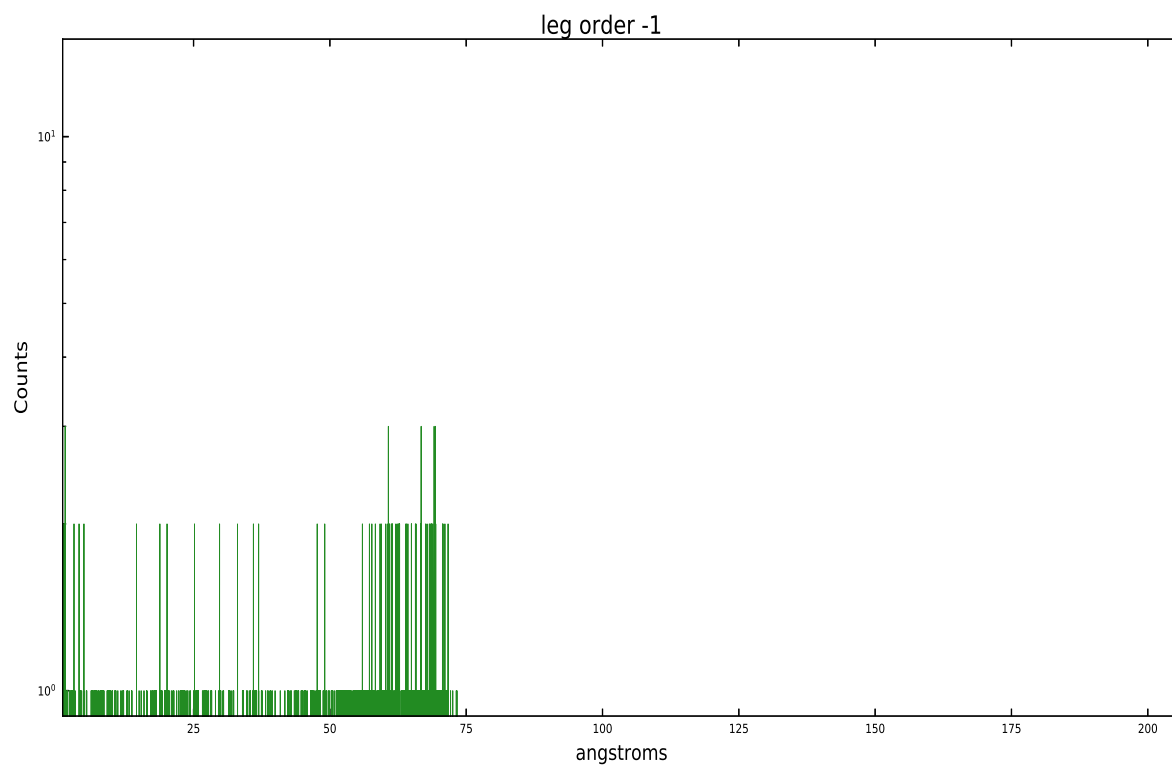


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	David Principe
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.180175

A.2 Comments