

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16374 - L2 Version 2
Chandra X-Ray Center

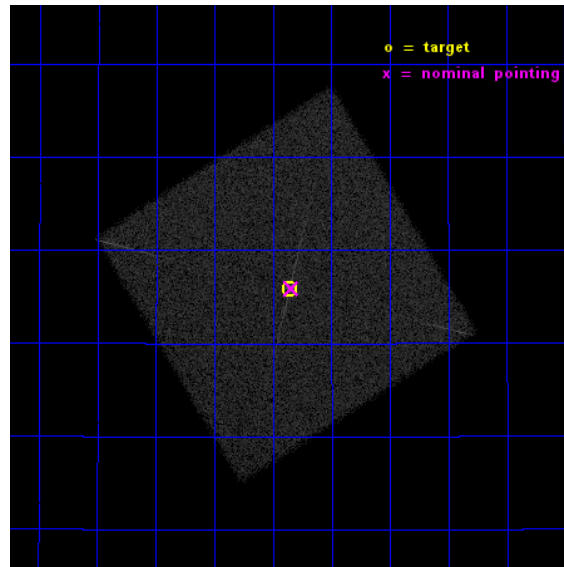
L2 Processing Date : Dec 11 2014

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1 Front

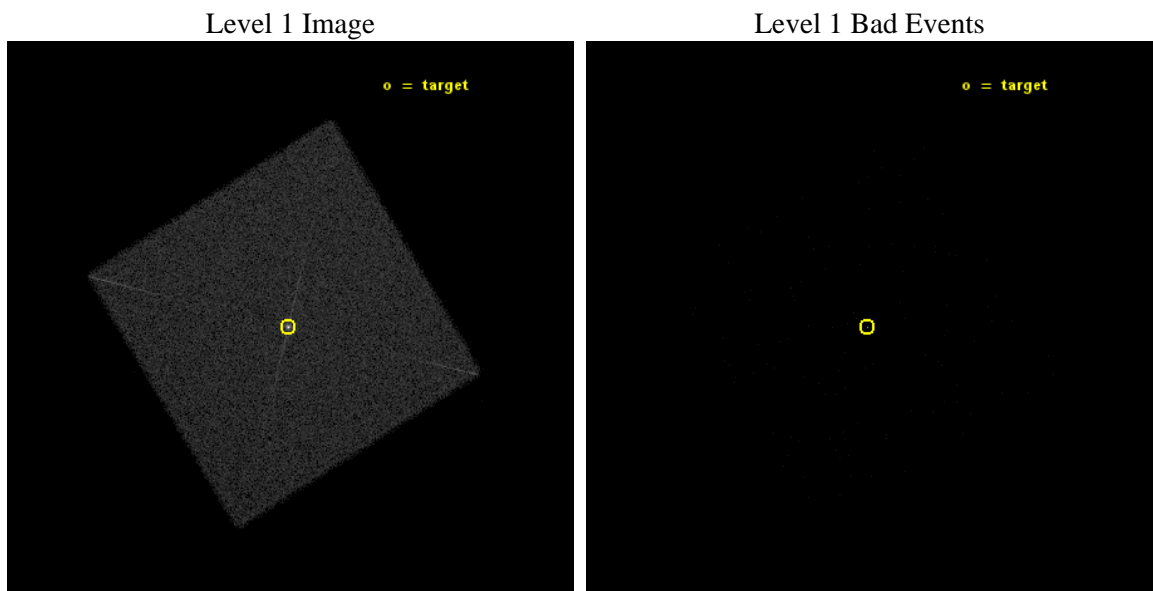
seq_num	291146	Sequence number
obs_id	16374	Observation id
title	AO-15 Calibration Observations of HZ43	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.090417	Observer's specified target RA [deg]
dec_targ	29.098306	Observer's specified target Dec [deg]
ra_nom	199.08566413636	Nominal RA [deg]
dec_nom	29.09868630056	Nominal Dec [deg]
roll_nom	193.40716316389	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2145.5813683867	[s]
livetime	2129.7542135093	Ontime multiplied by DTCOR
l2events	125648	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	2145.5813683867	[s]
caldsver	4.6.4	 	l1events	257274	Number of level 1 events
date	2014-12-11T09:23:36	Date and time of file creation	tgmethod	TGDETECT	Method used to create src1a file
revision	2	Processing version of data	zo_pos	(16269.70, 16374.35)	src1a sky pixel position

2.1.3 Events

Level 1 Events

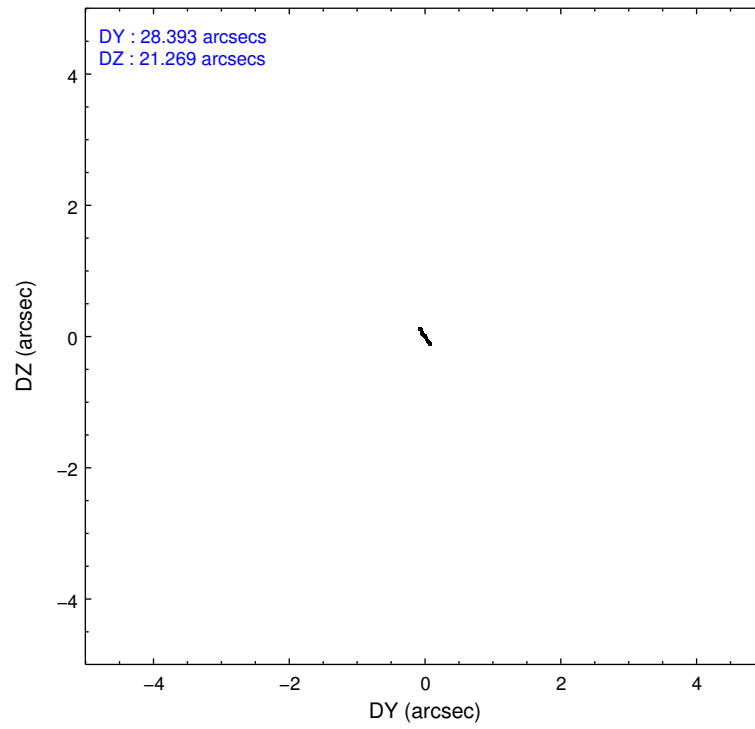
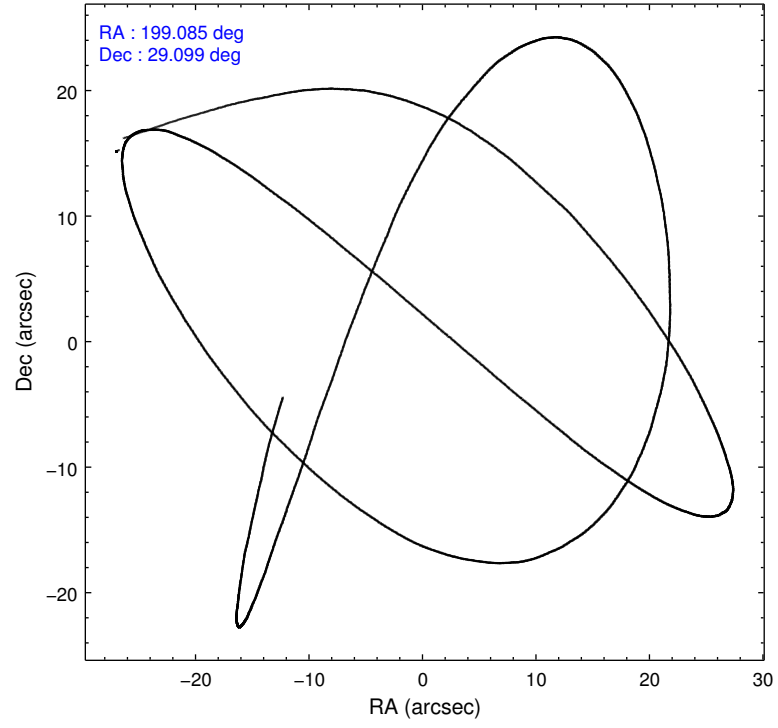
	segment 0
level 1 events	257274
rejected events	90777
rejected %	35%

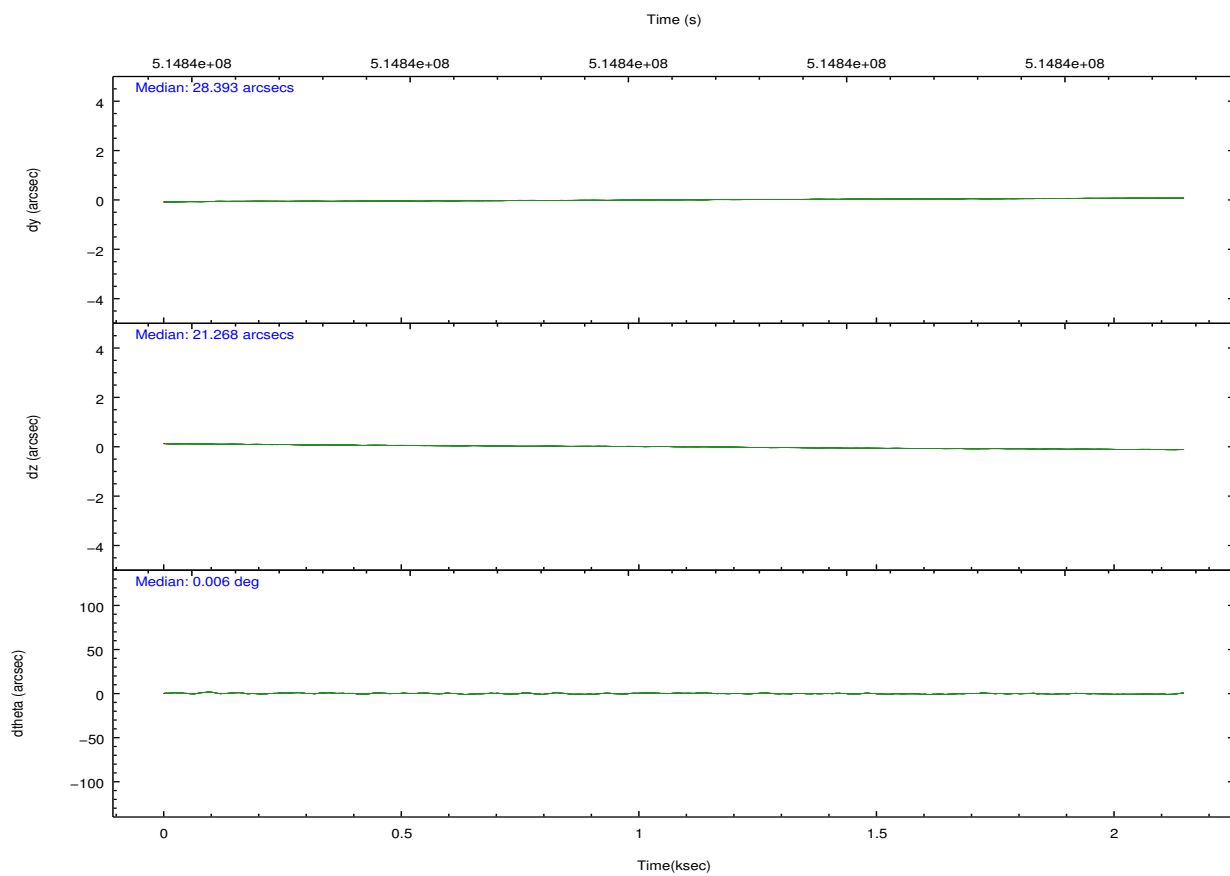
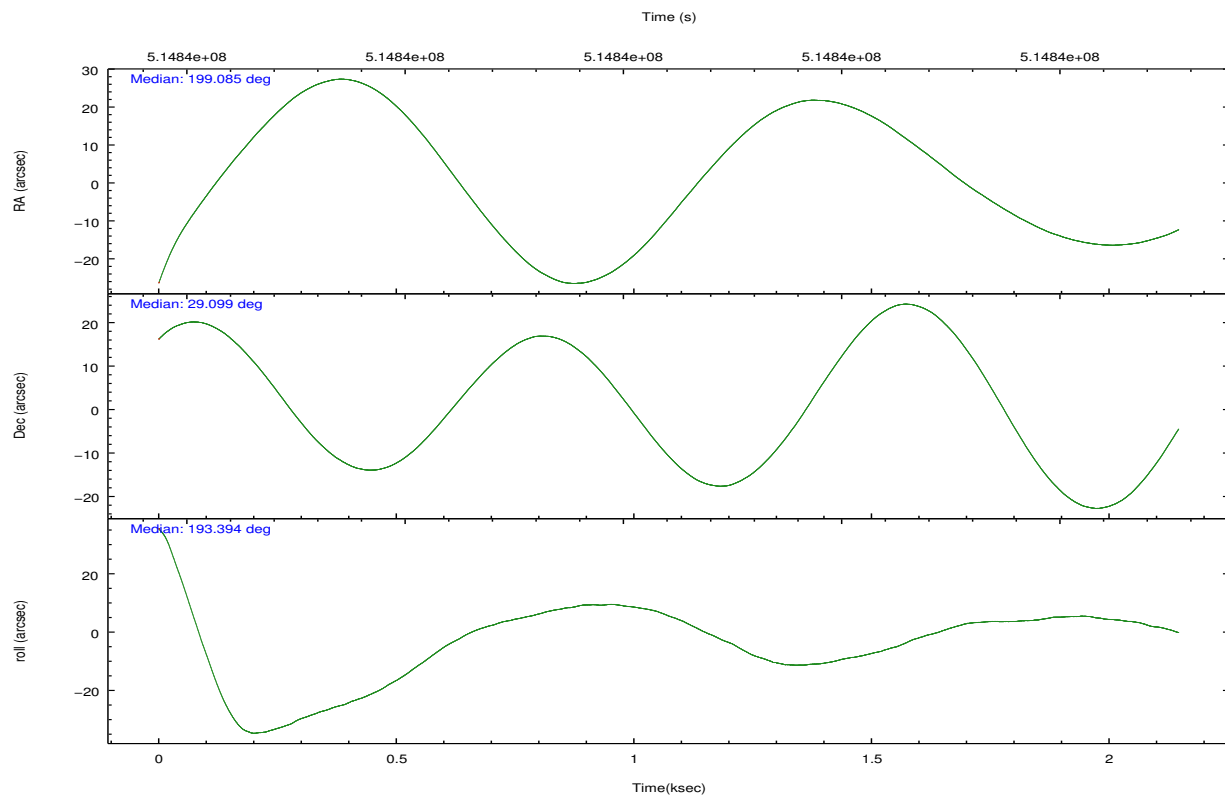
2.2 Compared Parameters

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	199.107748	199.0856641363614
[deg] Pointing Dec	29.118048	29.09868630056003
[deg] Pointing Roll	193.491567	193.4071631638915
[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)	514836179.184000	514834856.15236
Observation start date	2014-04-25T18:01:52	2014-04-25T17:40:56
[s] Observation end time (MET)	514838179.184000	514838814.19008
Observation end date	2014-04-25T18:35:12	2014-04-25T18:46:54

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

2.3 Aspect



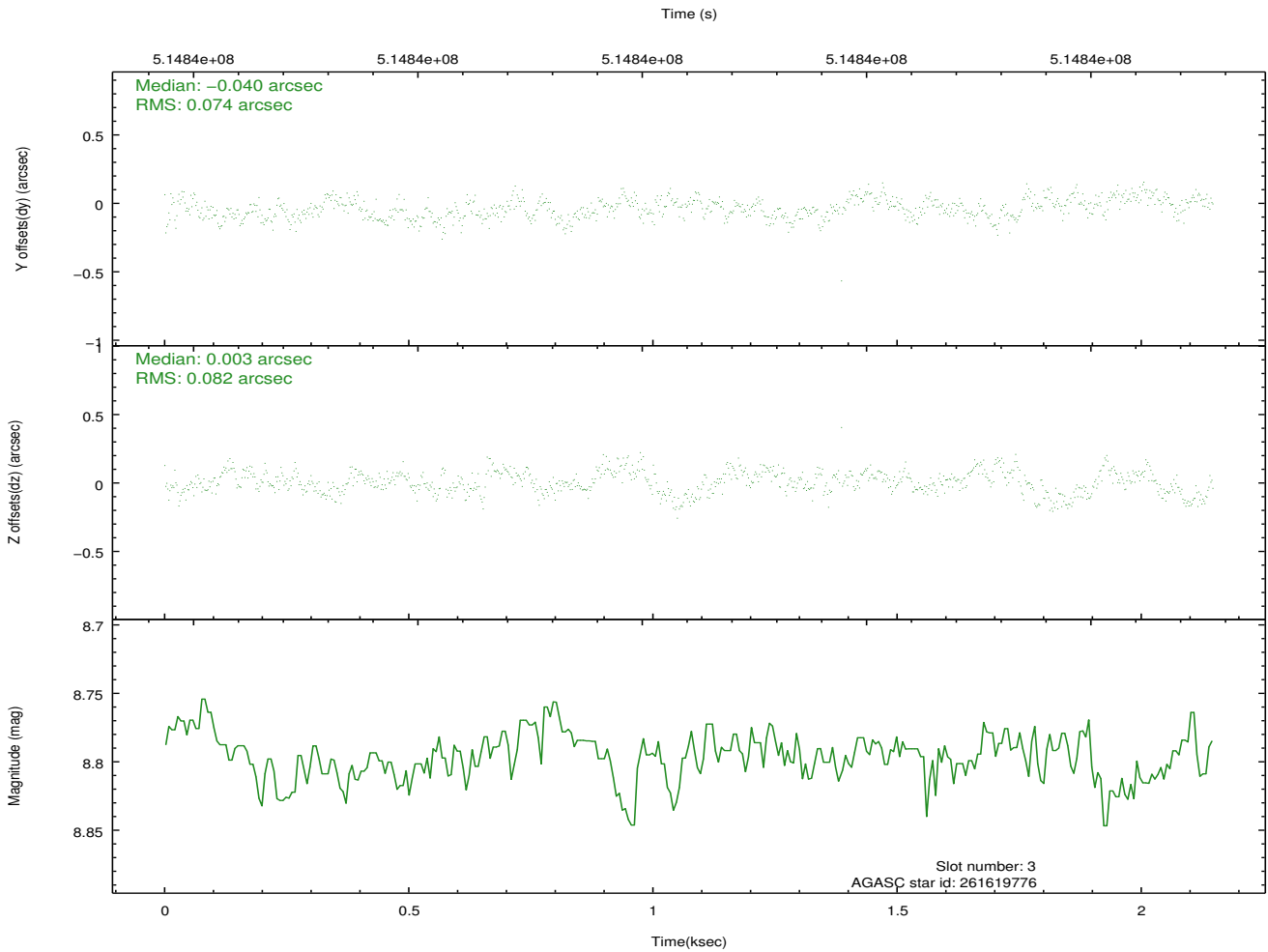
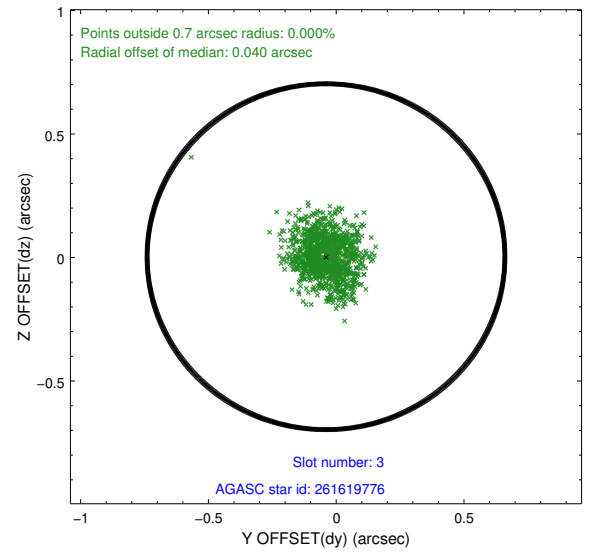
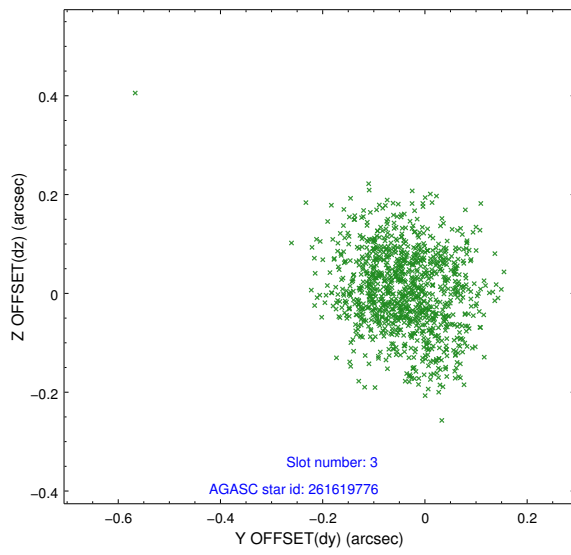


Slot Statistics

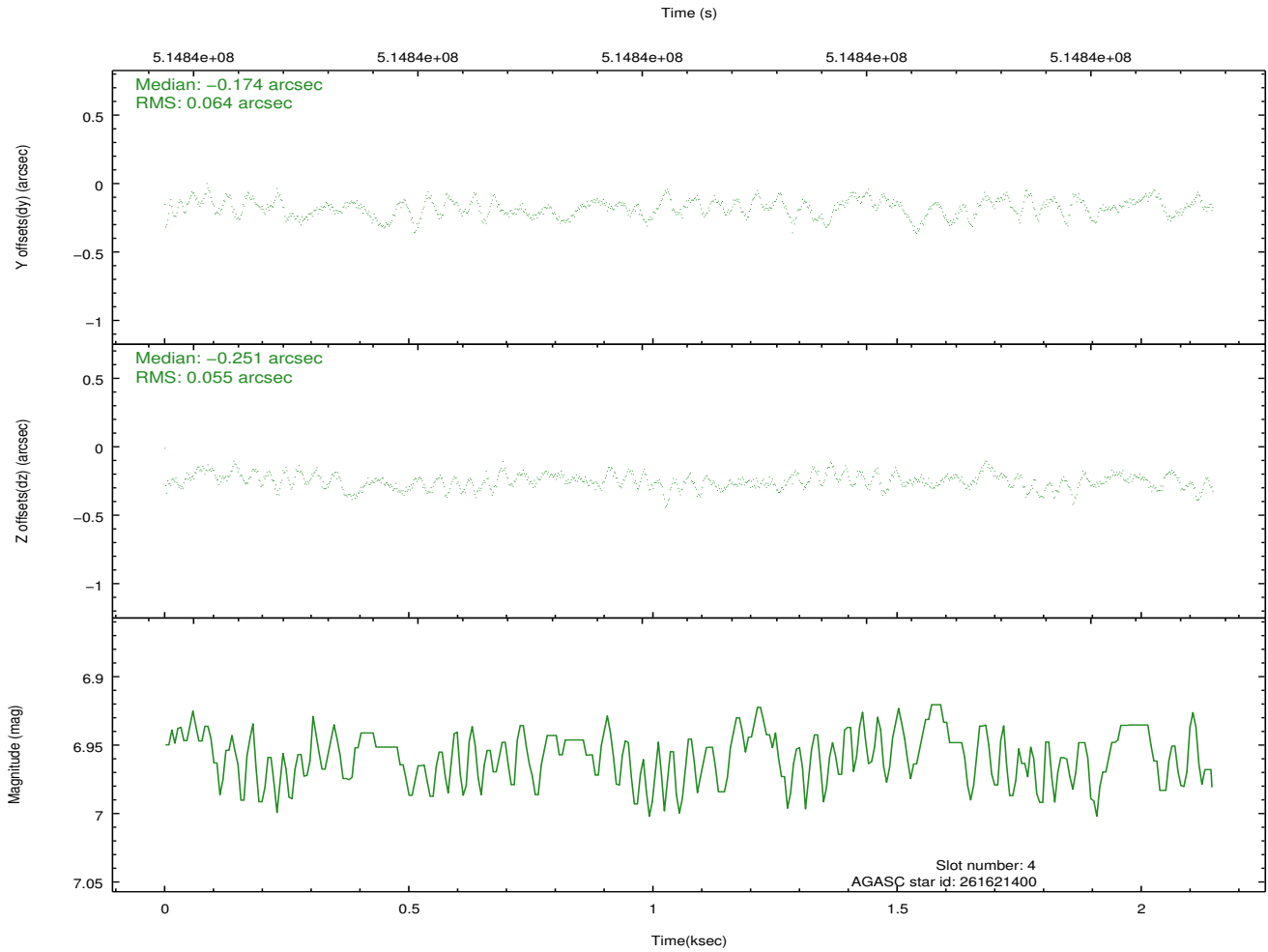
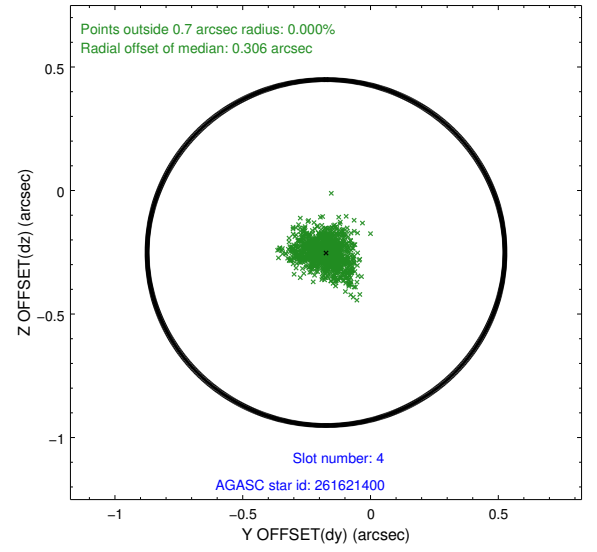
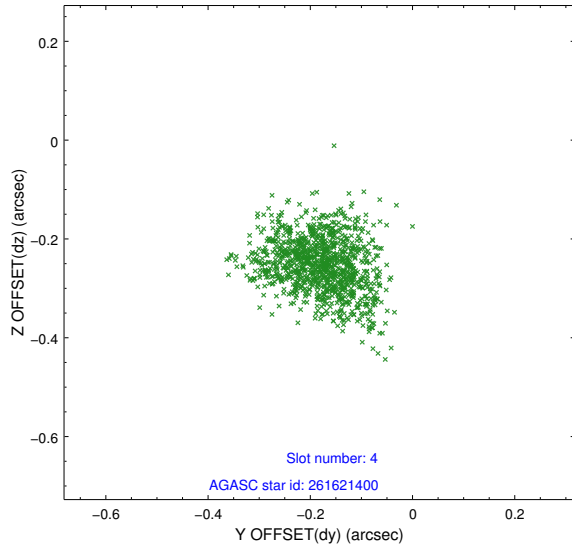
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.01	524	-0.119	0.029	0.007	0.011	0.000000	0.000000	-784.62	-1309.59
1	FID		HRC-I-2	7.06	524	0.271	-0.126	0.007	0.011	0.000000	0.000000	826.90	-1313.74
2	FID		HRC-I-3	7.11	524	-0.034	0.007	0.006	0.010	0.000000	0.000000	-1211.55	992.43
3	GUIDE	used	261619776	8.80	1047	-0.040	0.003	0.117	0.183	198.654383	29.401174	1144.28	-1325.07
4	GUIDE	used	261621400	6.96	1048	-0.174	-0.251	0.089	0.144	198.901600	28.741982	949.92	1162.08
5	GUIDE	used	261626376	9.69	1048	-0.027	0.258	0.214	0.346	198.947288	29.347445	298.82	-920.22
6	GUIDE	used	261629720	8.12	1048	0.293	-0.016	0.086	0.134	199.236176	29.044452	-330.43	350.19
7	GUIDE	used	261624456	7.33	1047	-0.057	-0.003	0.117	0.182	199.758056	28.567828	-1538.60	2397.98

2.4 Star Slots

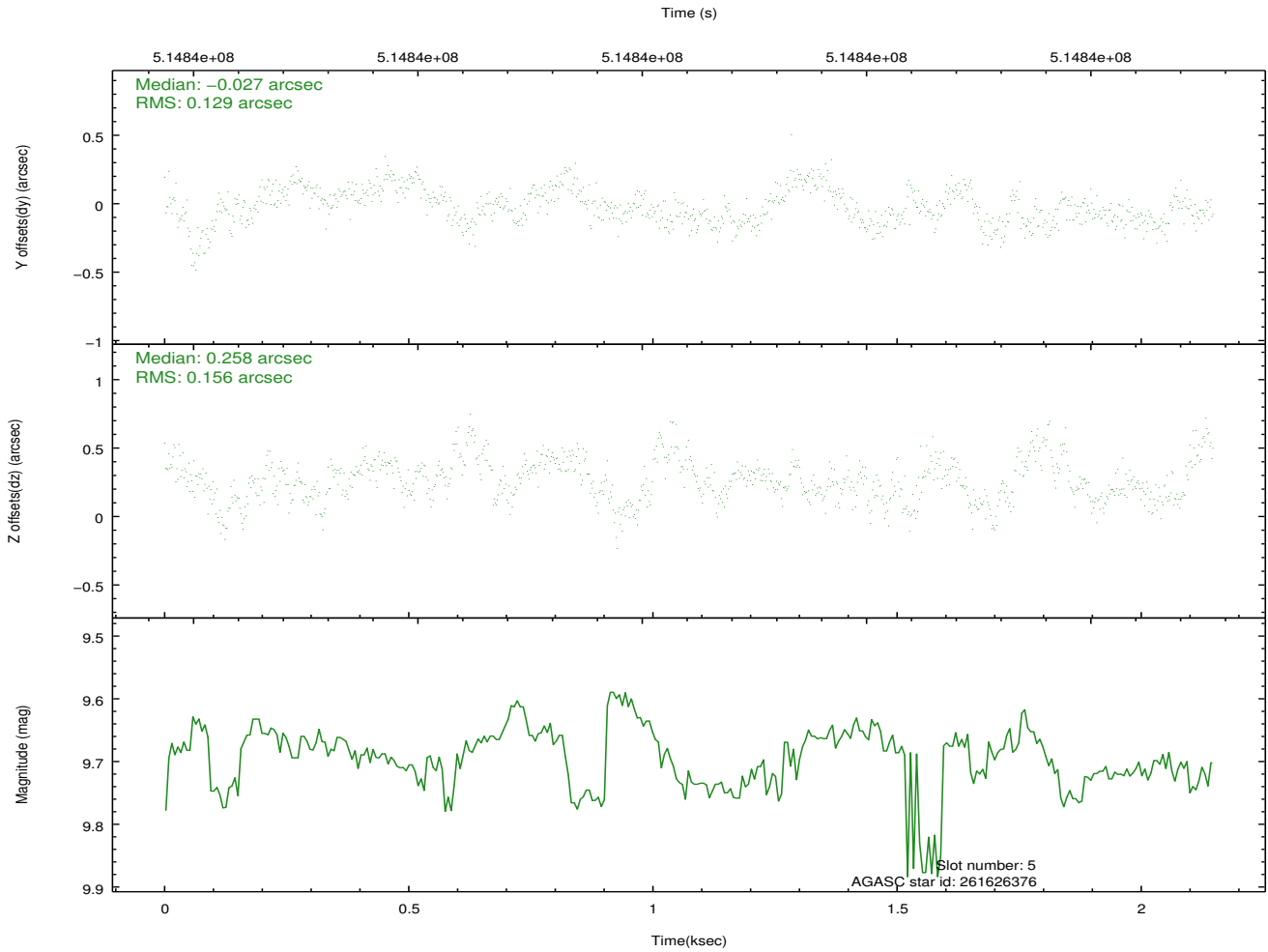
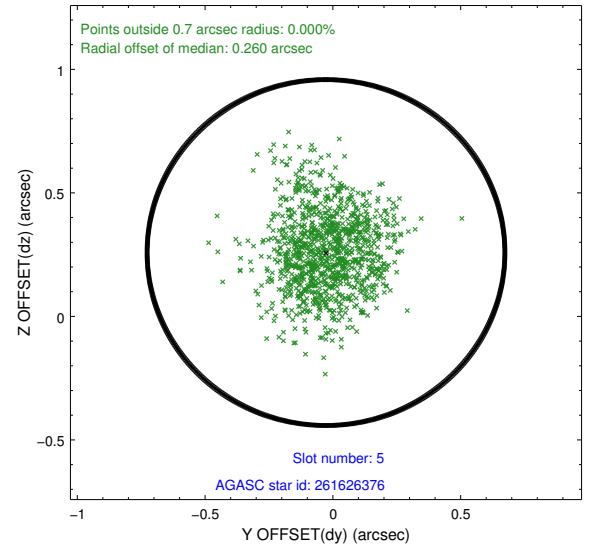
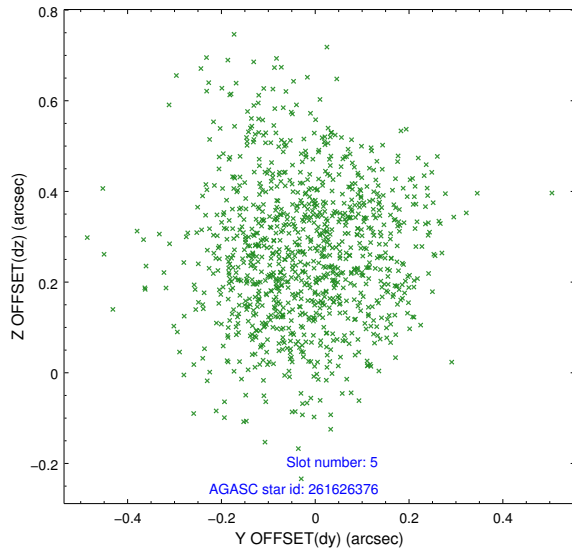
2.4.1 Slot 3



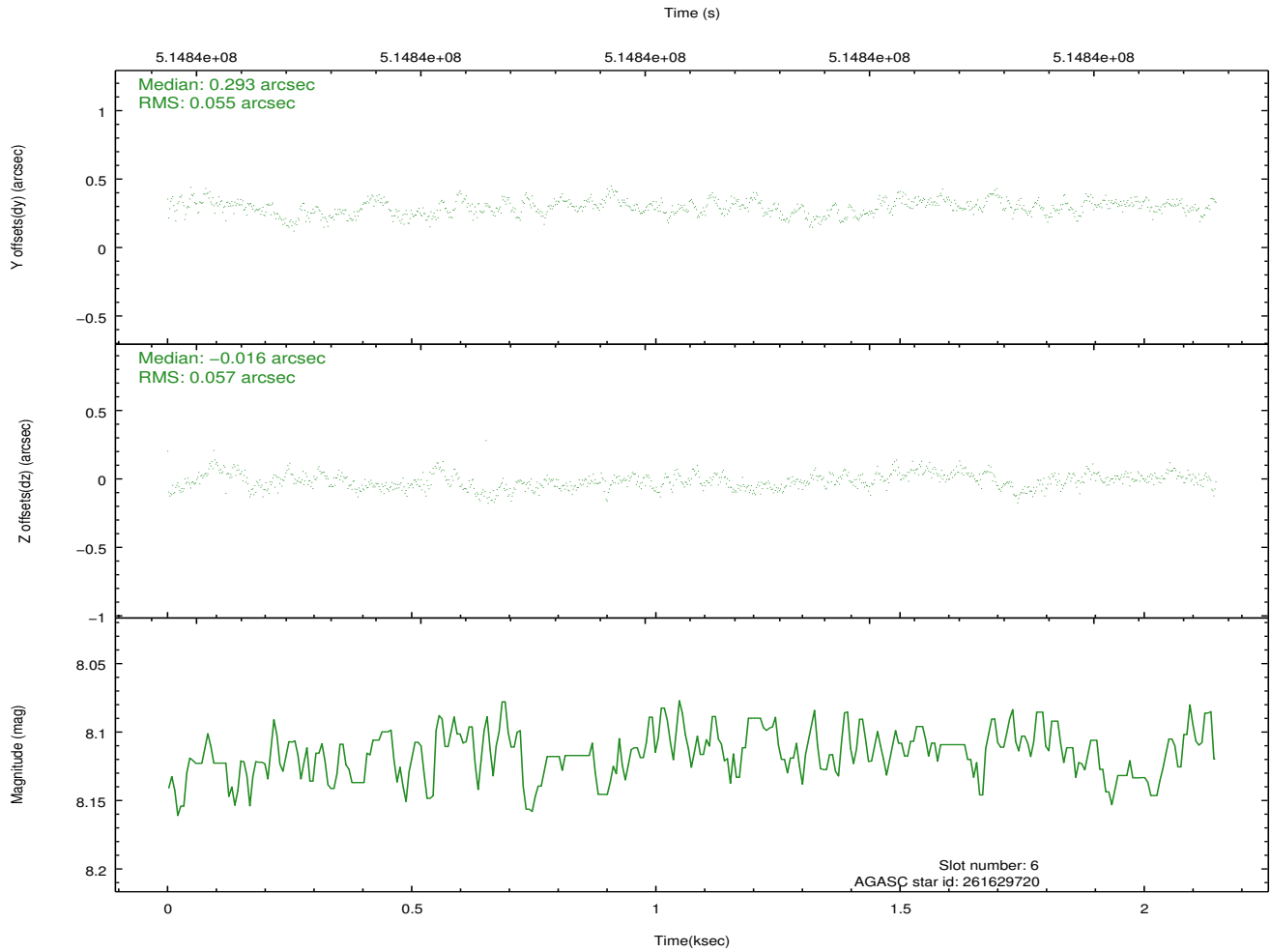
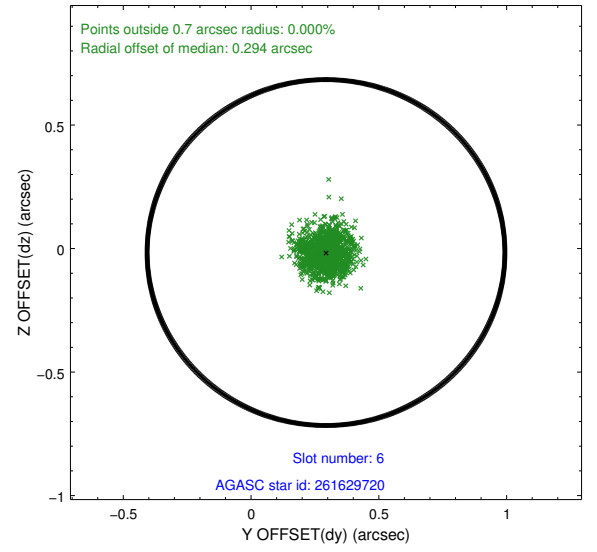
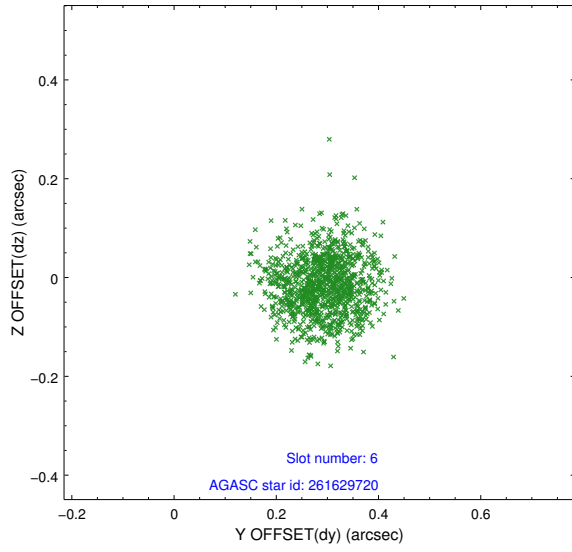
2.4.2 Slot 4



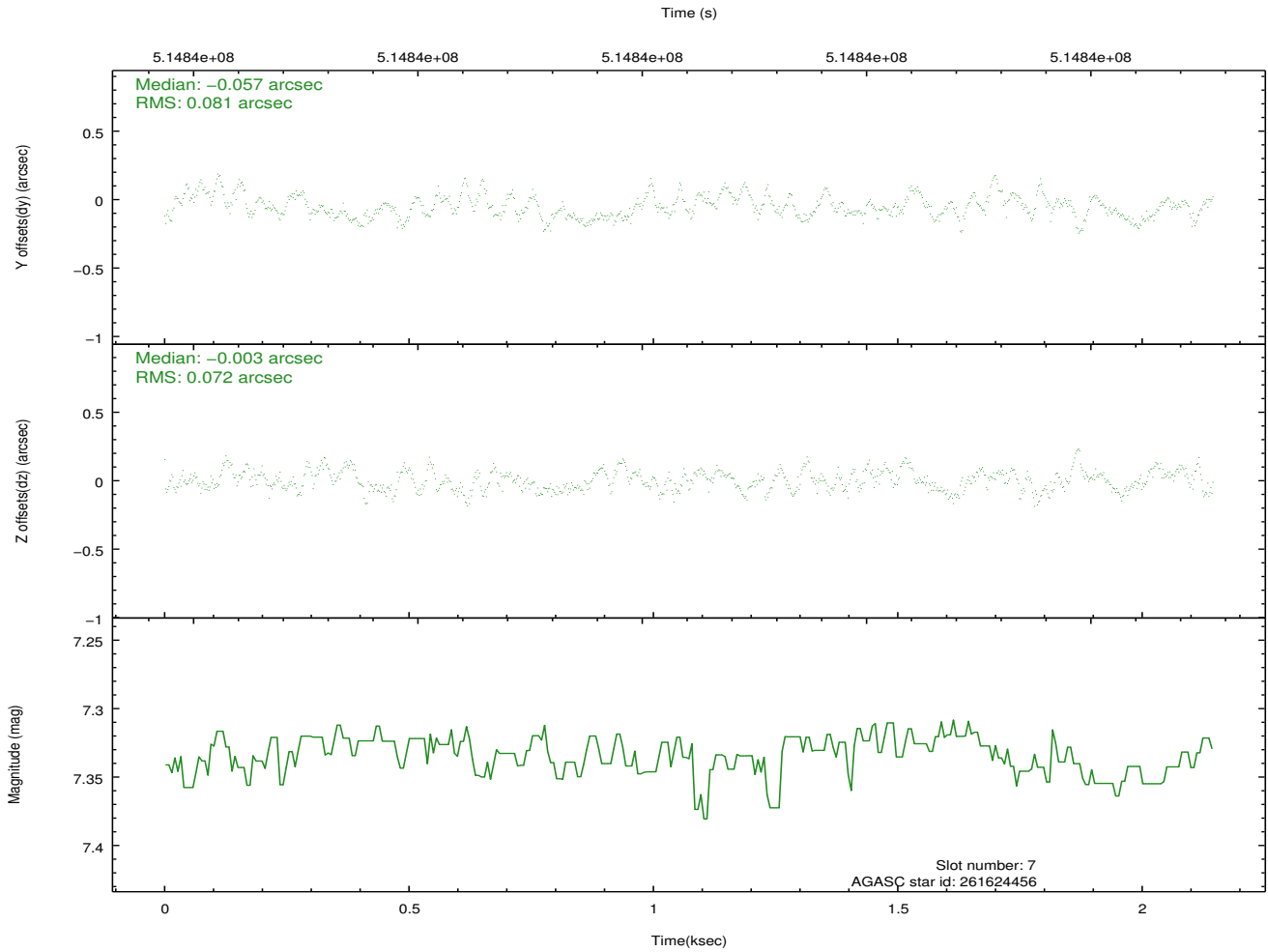
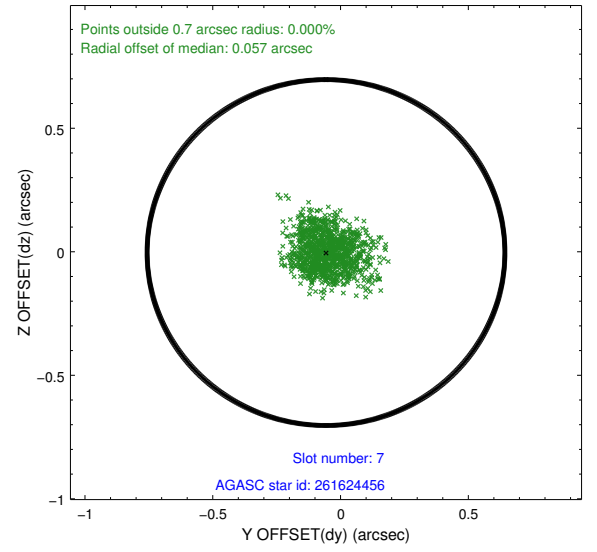
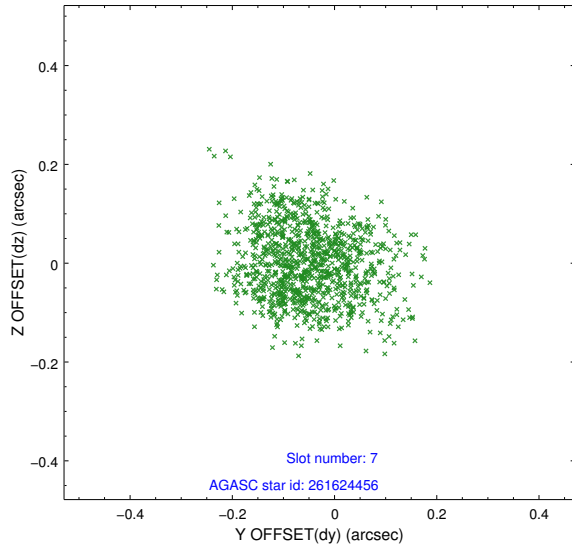
2.4.3 Slot 5



2.4.4 Slot 6

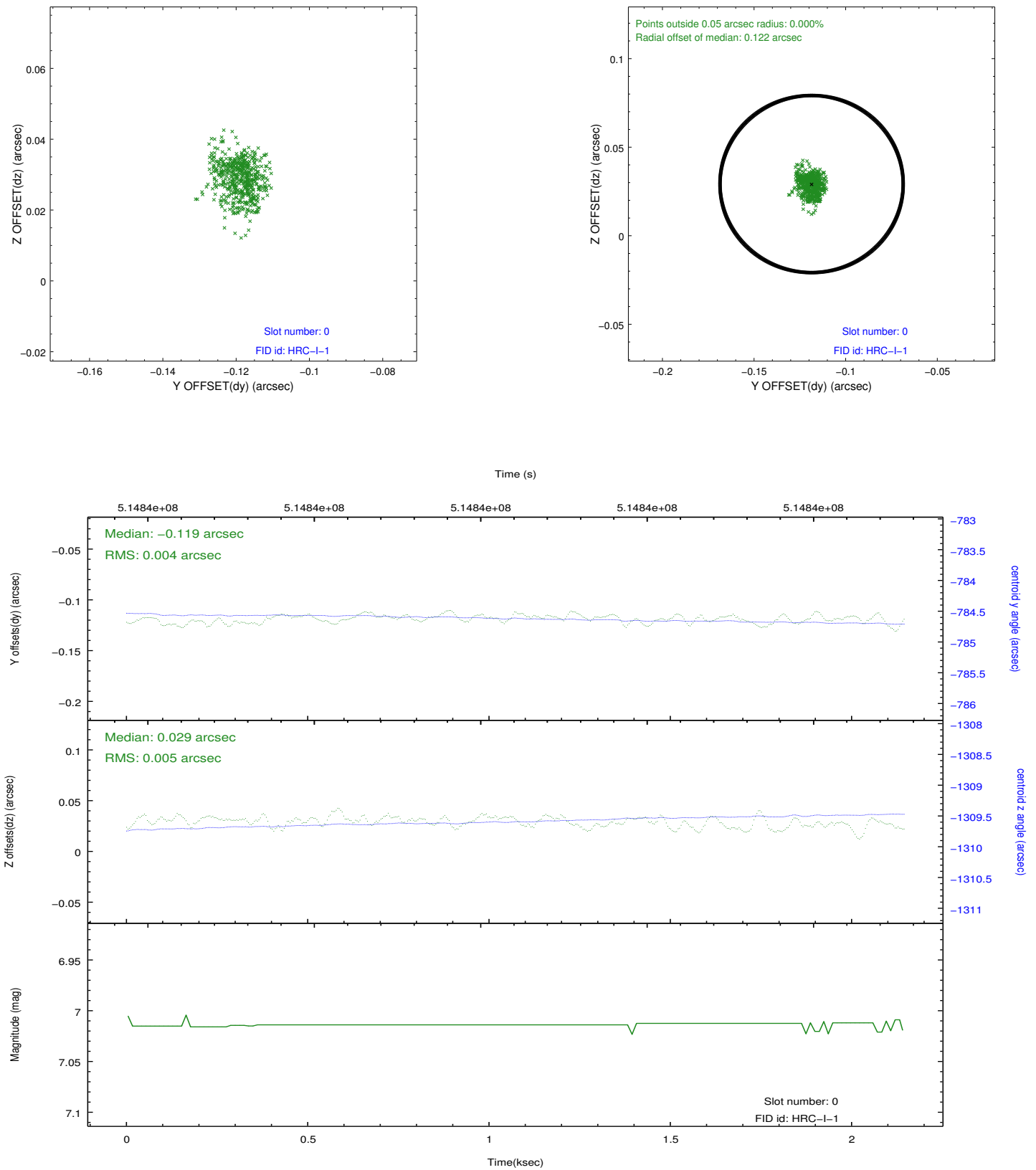


2.4.5 Slot 7

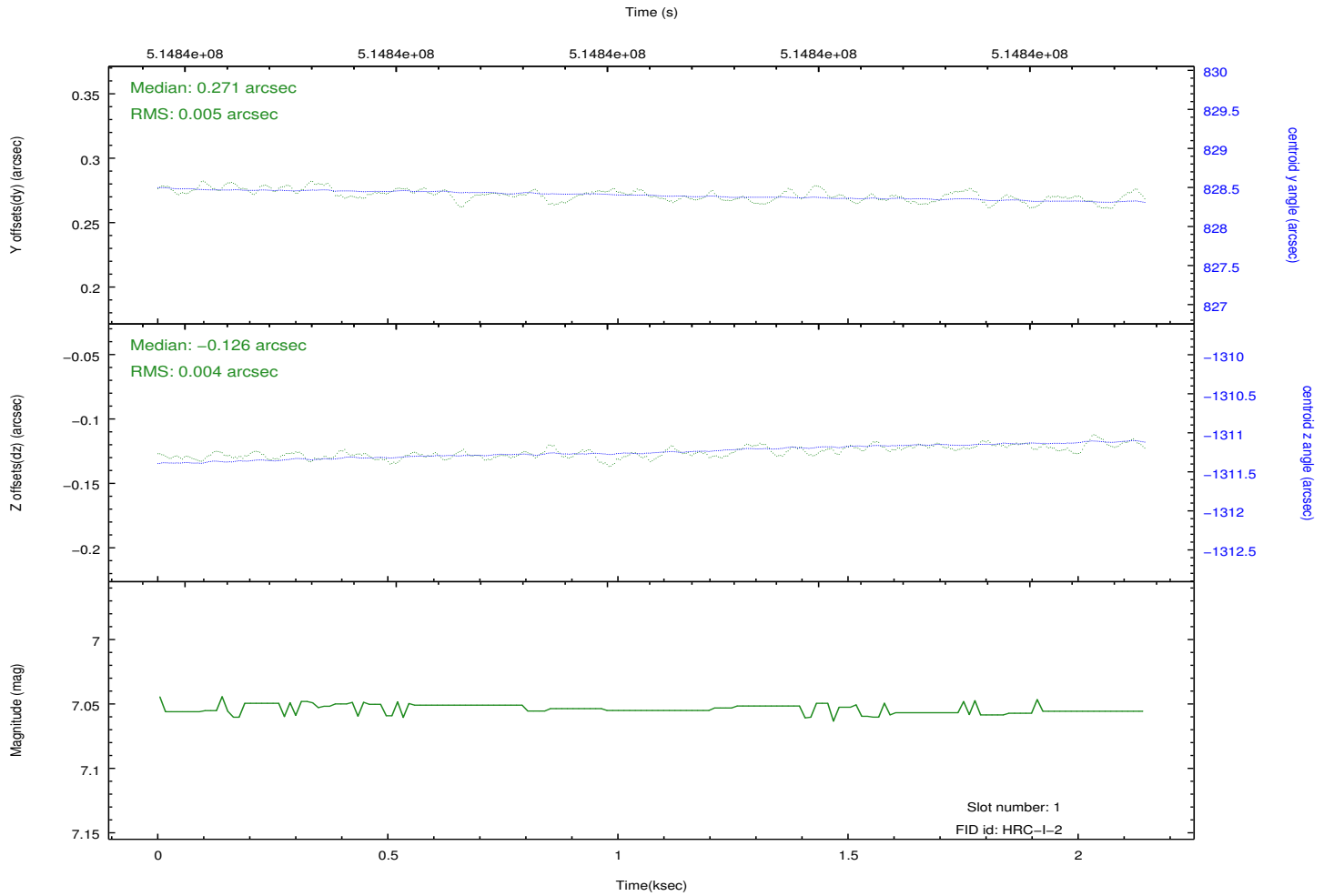
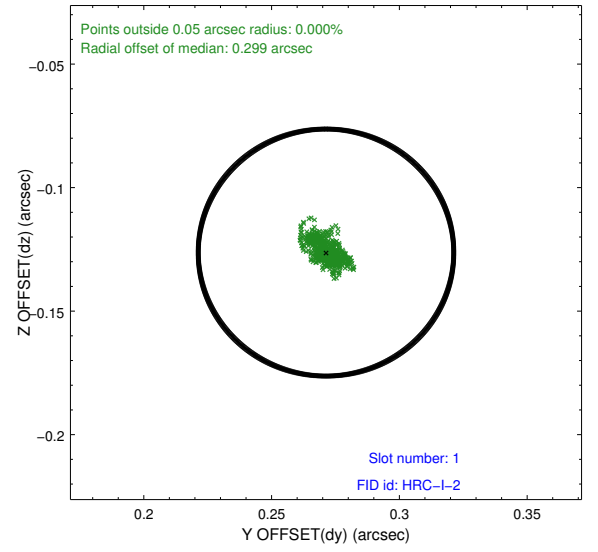
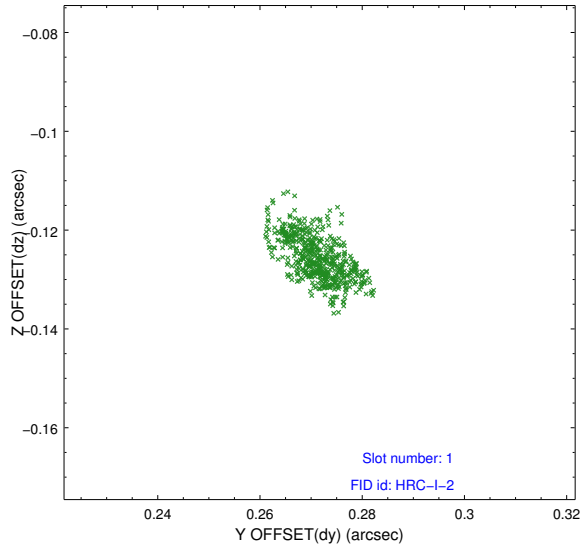


2.5 FID Slots

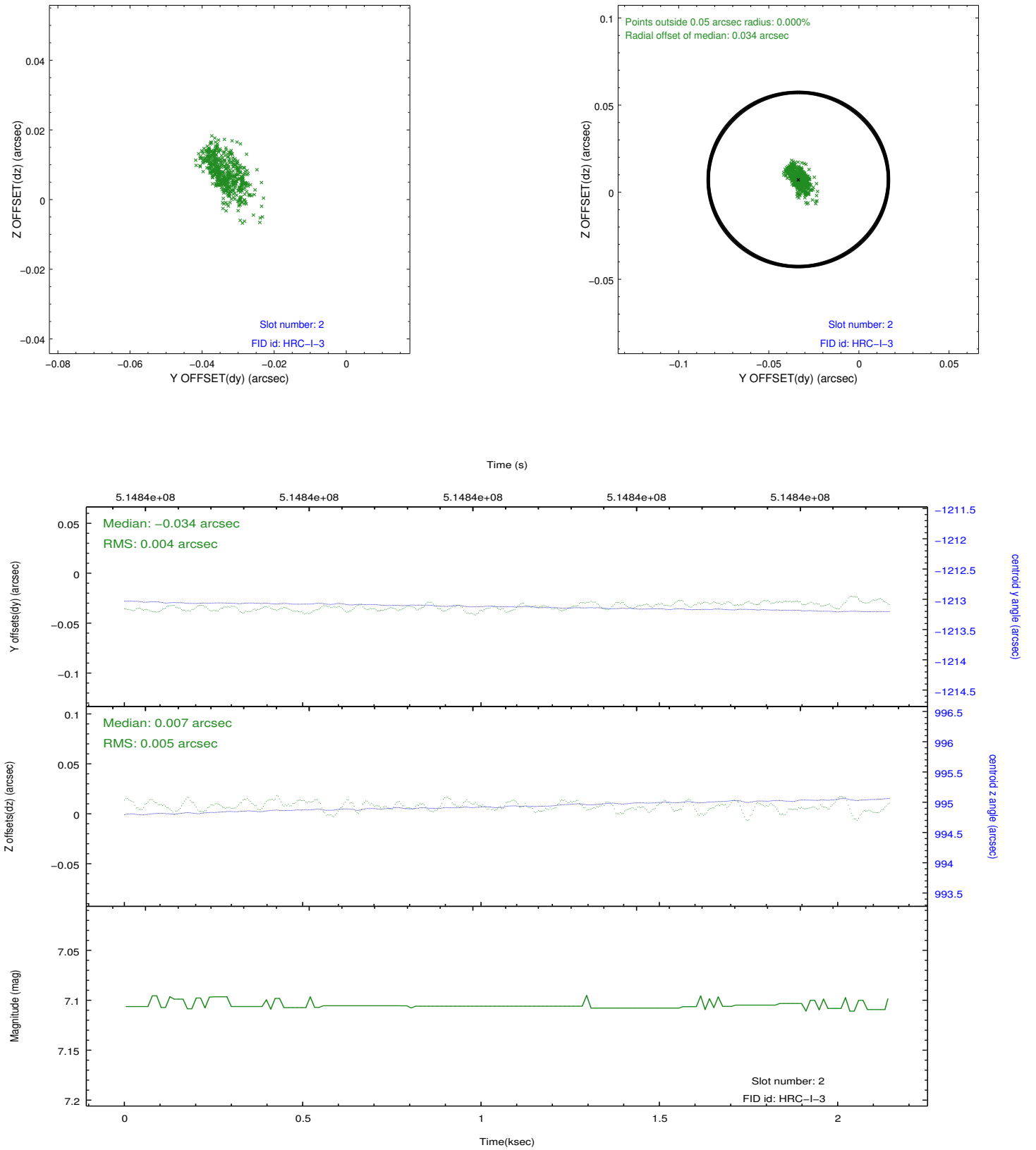
2.5.1 Slot 0



2.5.2 Slot 1

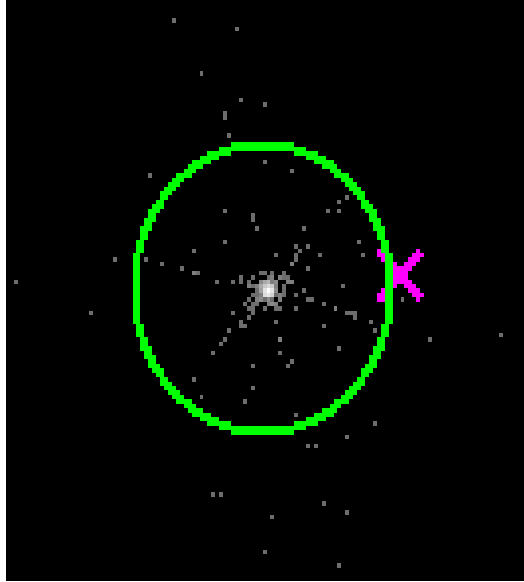


2.5.3 Slot 2

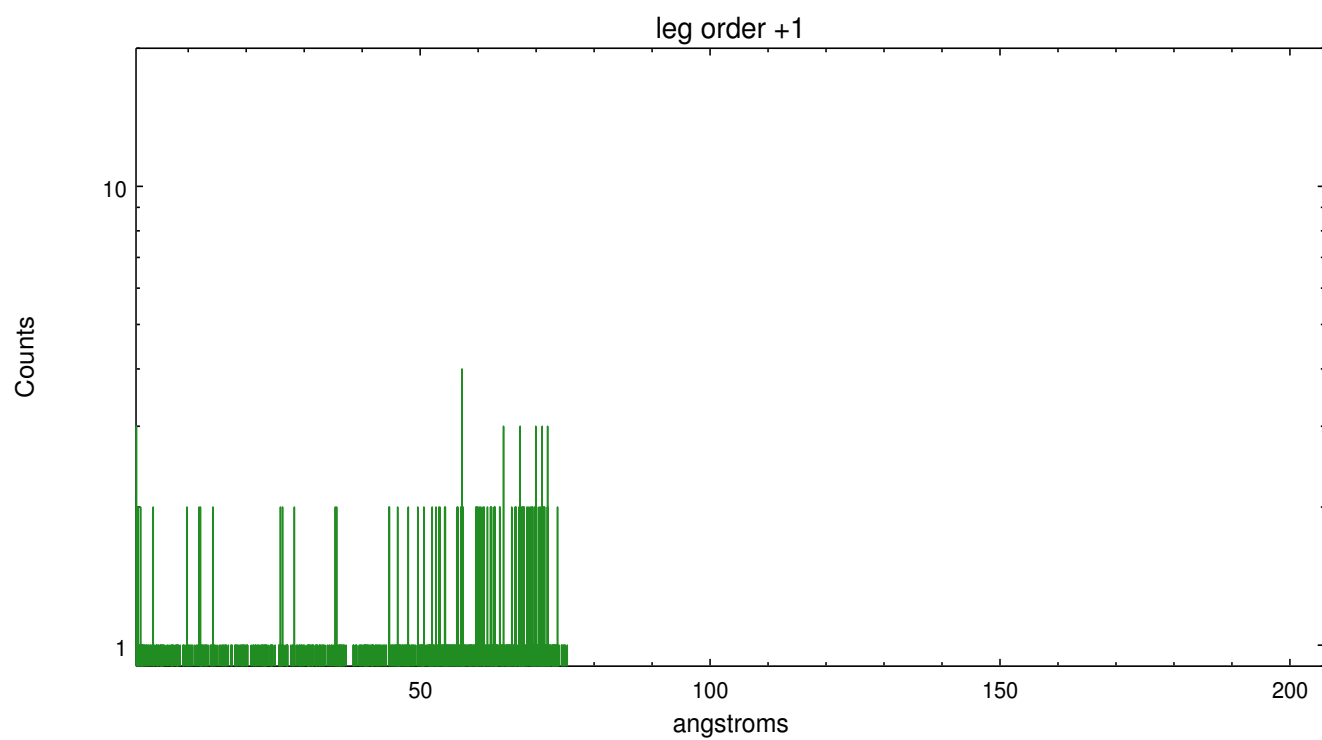
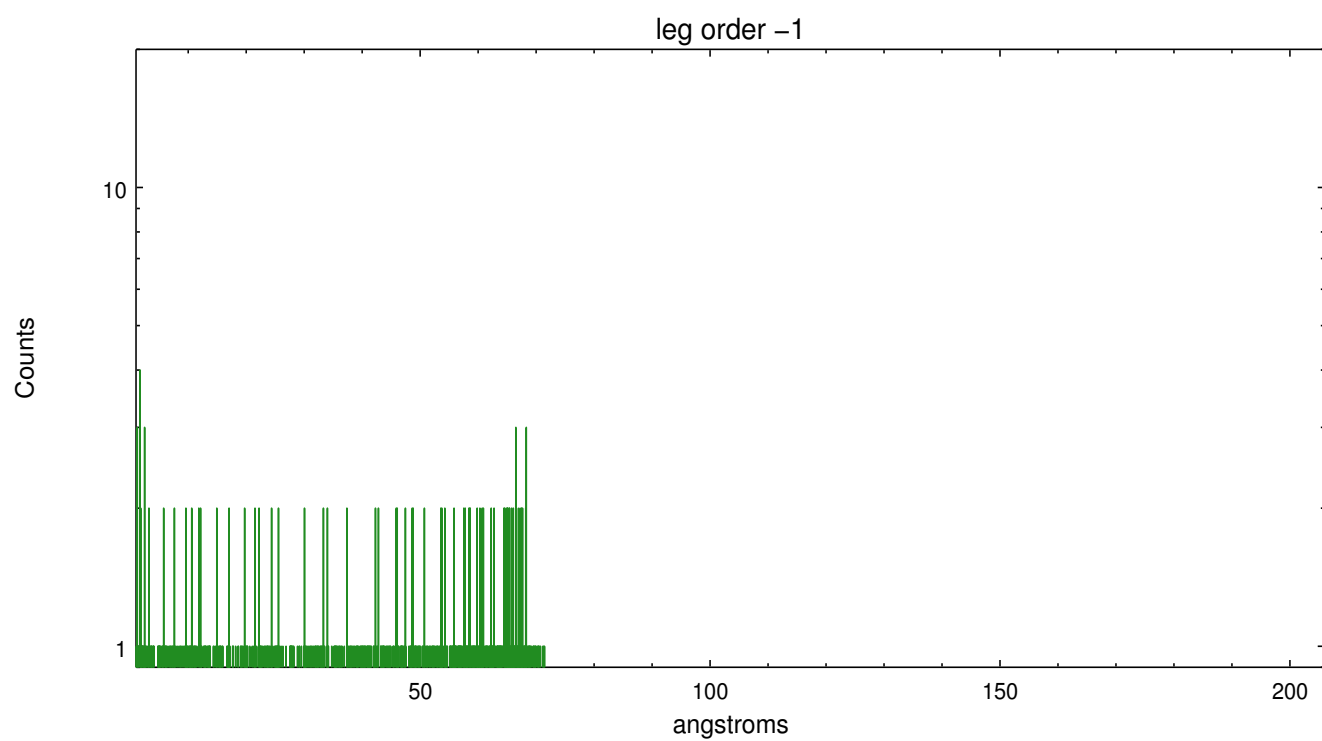


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.11.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.1455813683867

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.