

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1820 - L2 Version 3
Chandra X-Ray Center

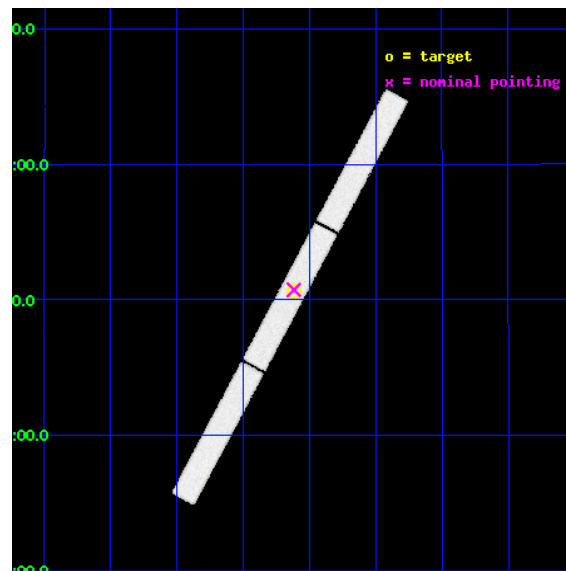
L2 Processing Date : Sep 20 2012

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1 Front

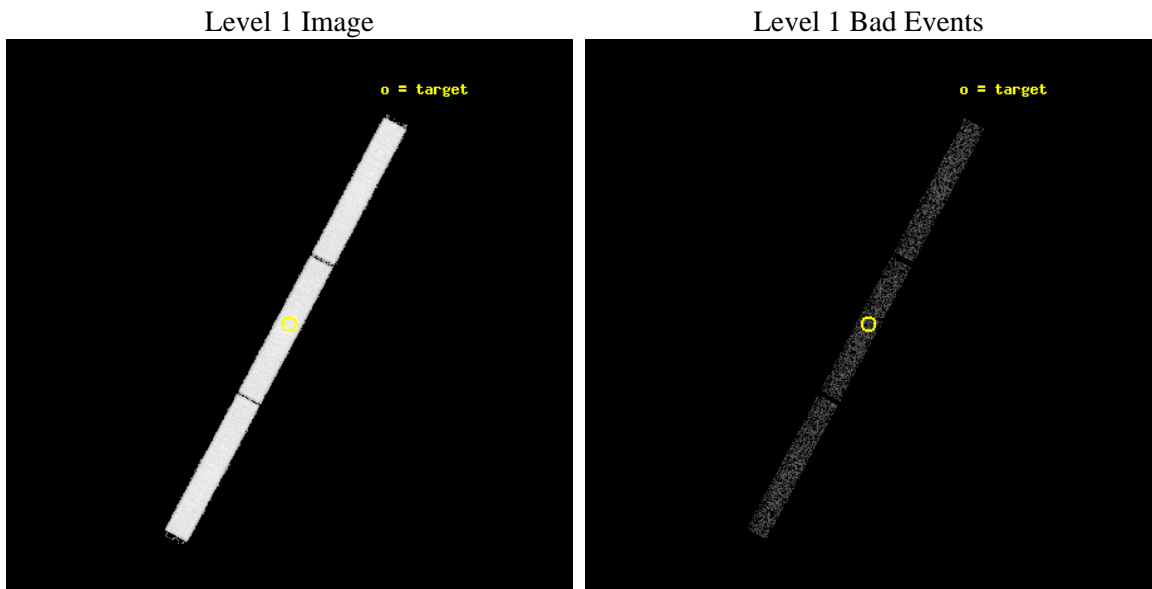
seq_num	100008	Sequence number
obs_id	1820	Observation id
title	SOLVING THE PUZZLE OF COMETARY X-RAY ORIGIN: OBSERVATIONS OF COMET 10P/TEMPEL 2	Proposal title
observer	DR W. THOMAS VESTRAND	Principal investigator
object	LINEAR 2001 A2	Source name
ra_targ	349.560604	Observer's specified target RA [deg]
dec_targ	7.532731	Observer's specified target Dec [deg]
ra_nom	349.55827641789	Nominal RA [deg]
dec_nom	7.5372564661013	Nominal Dec [deg]
roll_nom	118.16837505729	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2294.2063397467	[s]
livetime	2278.322463886	Ontime multiplied by DTCOR
l2events	146719	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	2150.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2294.2063397467	[s]
caldbver	4.5.1.1	 	l1events	234248	Number of level 1 events
date	2012-09-20T12:44:44	Date and time of file creation			
revision	3	Processing version of data			

2.1.3 Events

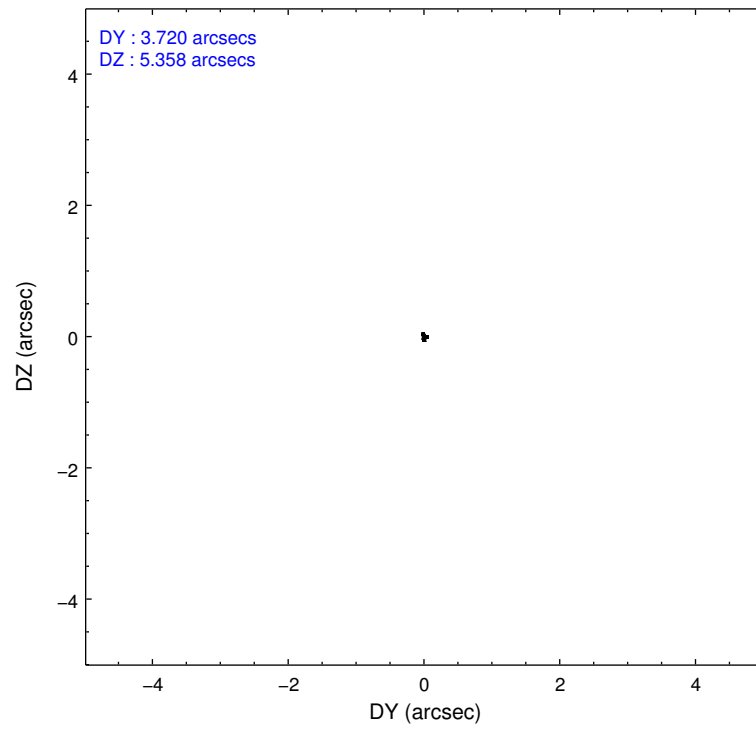
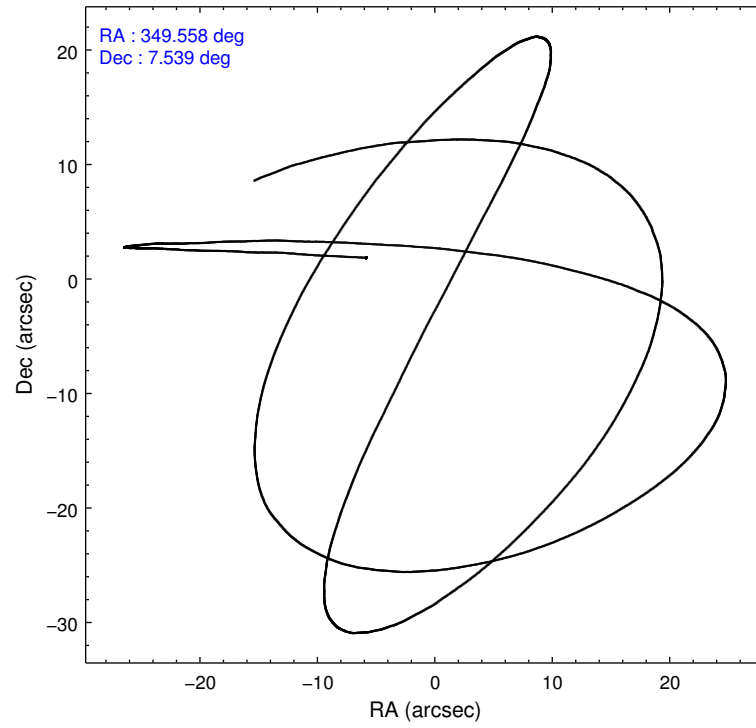
Level 1 Events

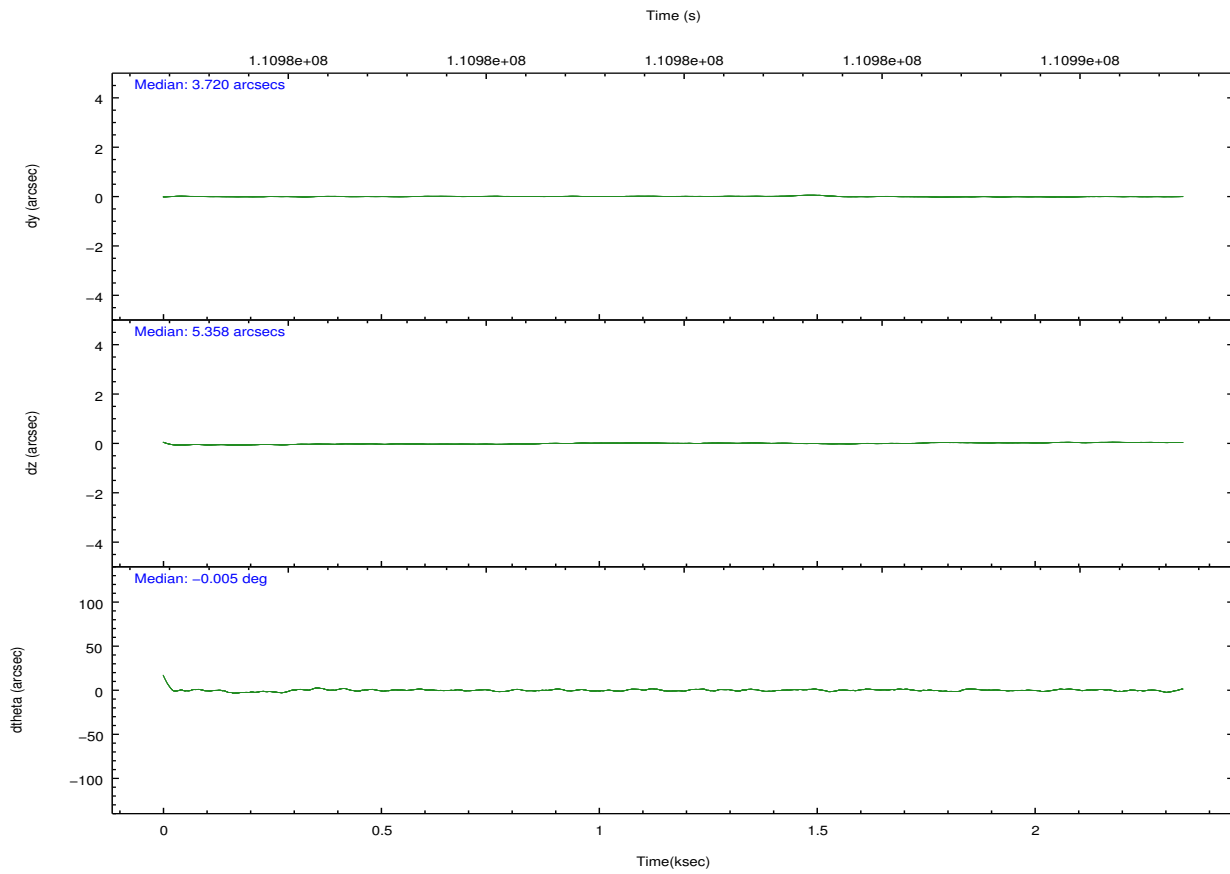
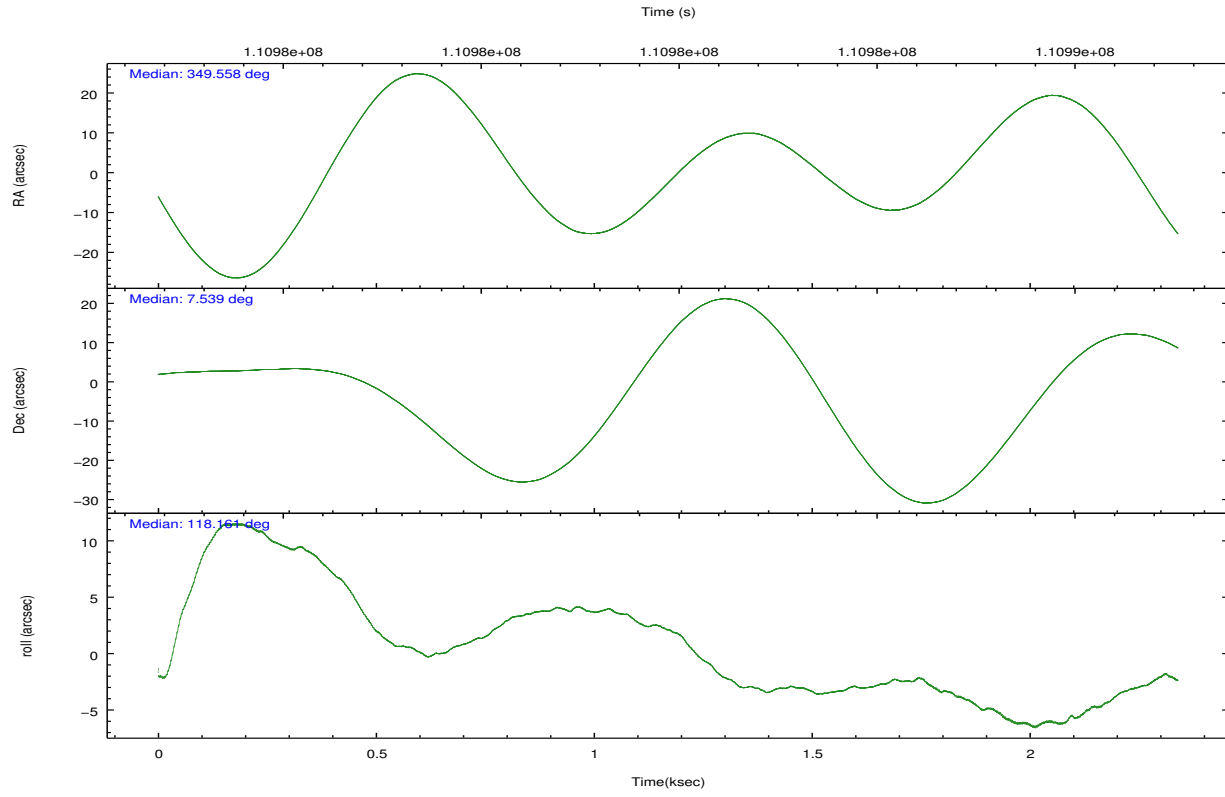
	segment 1	segment 2	segment 3
level 1 events	78263	76689	79296
rejected events	10243	10073	10369
rejected %	13%	13%	13%

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	349.583727	349.558276417894			
[deg] Pointing Dec	7.523059	7.53725646610126			
[deg] Pointing Roll	118.097692	118.1683750572884			
[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)	110983494.184000	110983118.13209			
Observation start date	2001-07-08T12:43:50	2001-07-08T12:38:38			
[s] Observation end time (MET)	110985644.184000	110985778.00719			
Observation end date	2001-07-08T13:19:40	2001-07-08T13:22:58			

2.3 Aspect



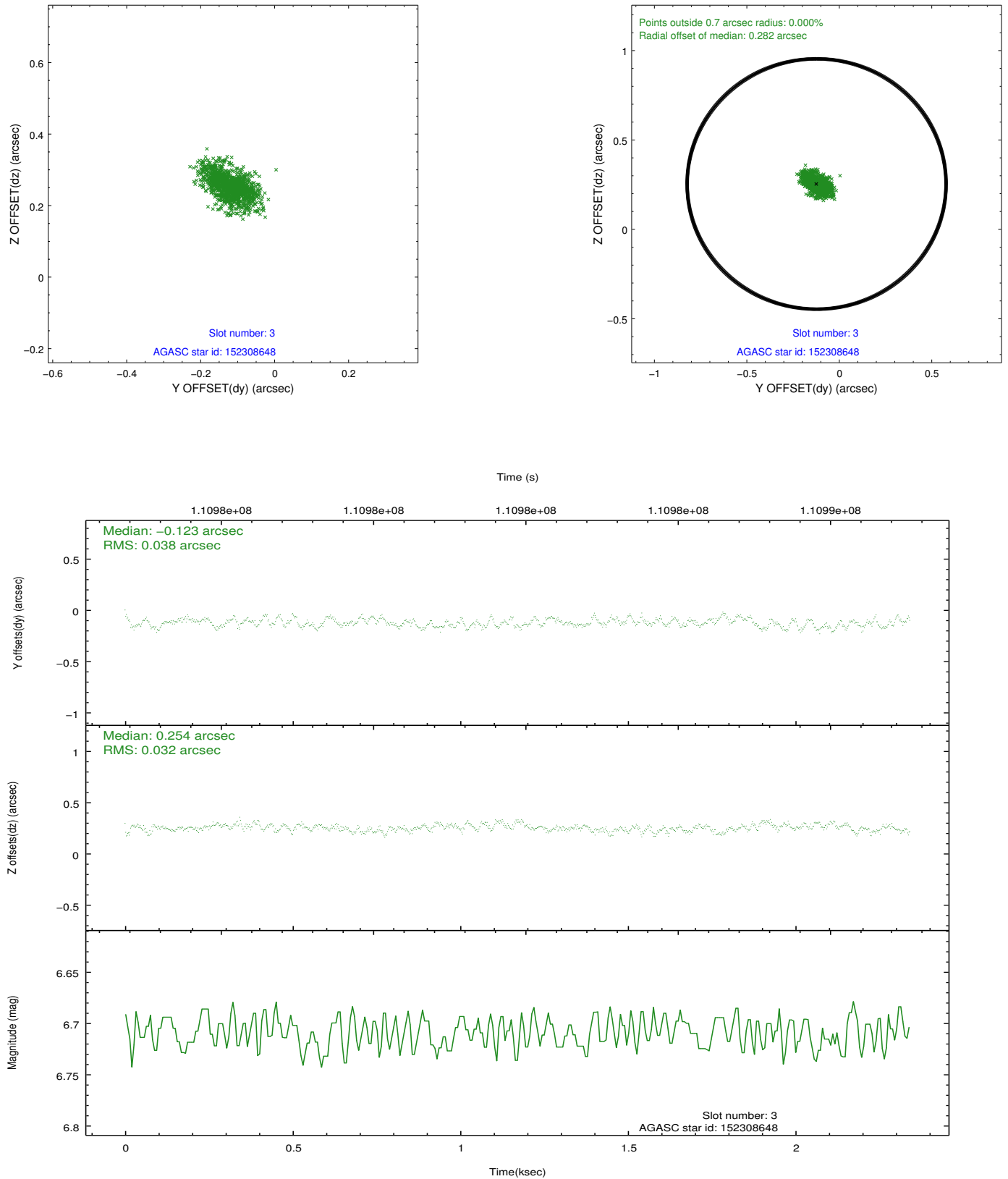


Slot Statistics

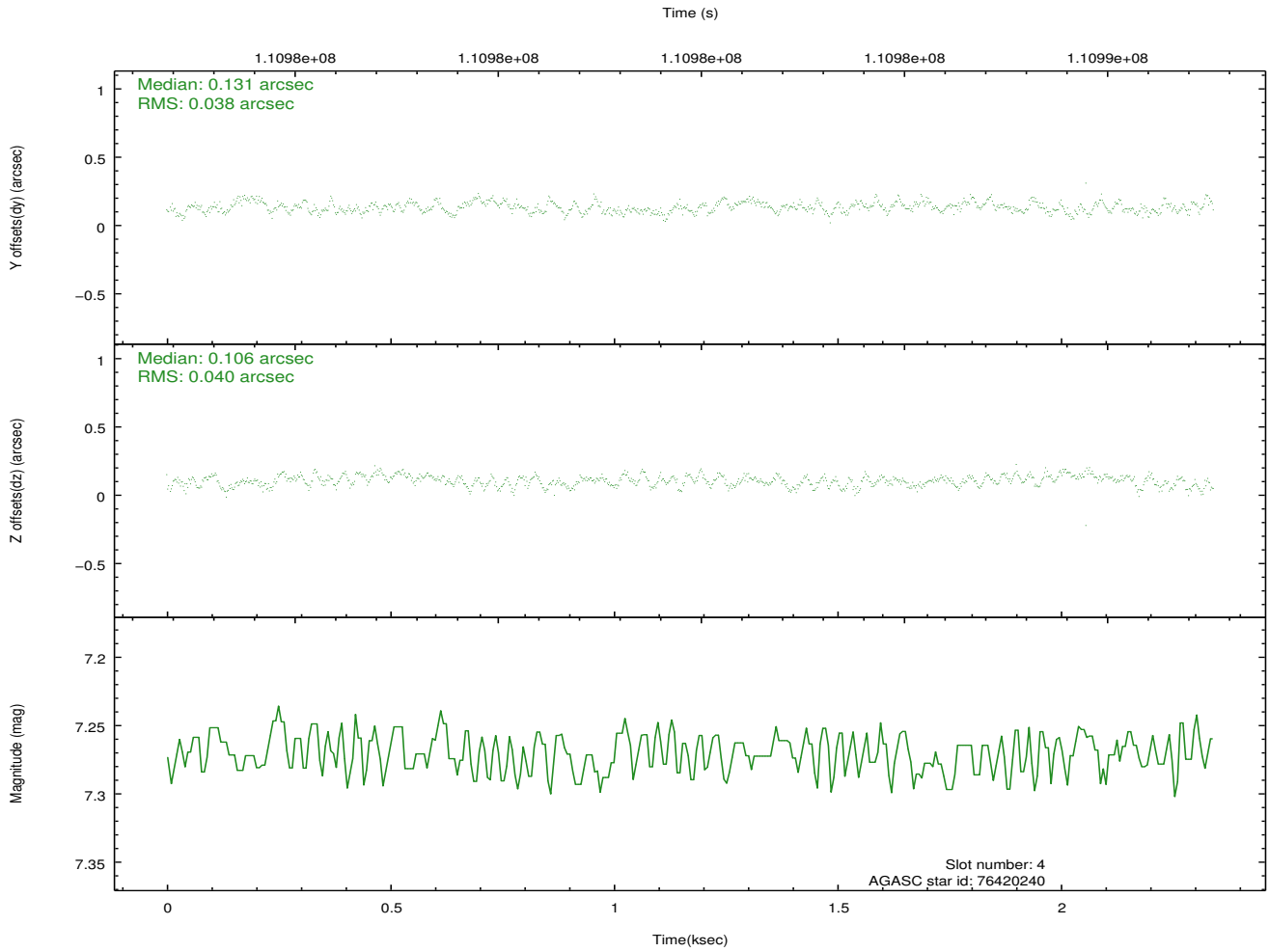
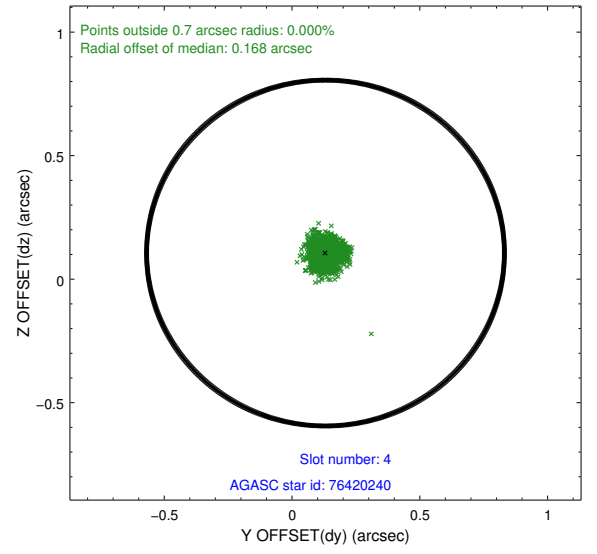
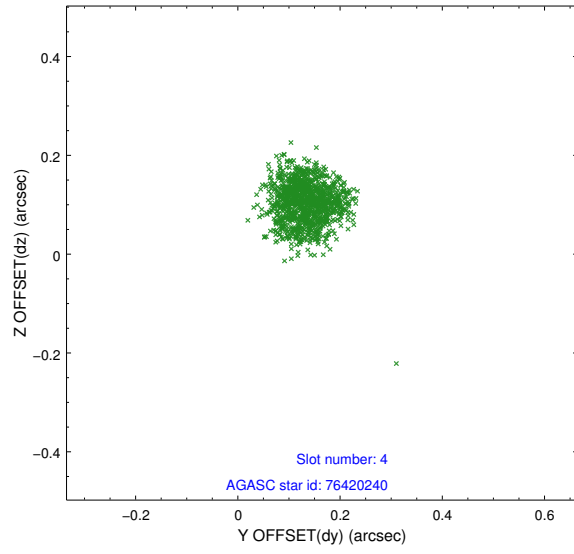
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.00	571	0.135	-0.171	0.006	0.010	0.000000	0.000000	-1157.77	-453.93
1	FID	HRC-S-3	7.02	571	0.163	-0.024	0.008	0.012	0.000000	0.000000	-1162.52	574.95
2	FID	HRC-S-4	6.95	571	0.090	-0.102	0.005	0.008	0.000000	0.000000	1238.38	579.29
3	GUIDE	152308648	6.71	1143	-0.123	0.254	0.053	0.086	349.950276	7.982087	841.24	-1931.20
4	GUIDE	76420240	7.27	1142	0.131	0.106	0.059	0.088	349.834746	7.214951	-1401.27	-270.67
5	GUIDE	152181256	7.77	1143	-0.158	-0.224	0.058	0.086	349.141958	7.580367	922.00	1292.54
6	GUIDE	152180776	8.42	1143	0.072	0.053	0.057	0.092	349.576658	7.835091	1002.11	-505.85
7	GUIDE	76419040	9.10	1140	0.071	-0.190	0.082	0.132	349.315769	7.117648	-837.30	1530.72

2.4 Star Slots

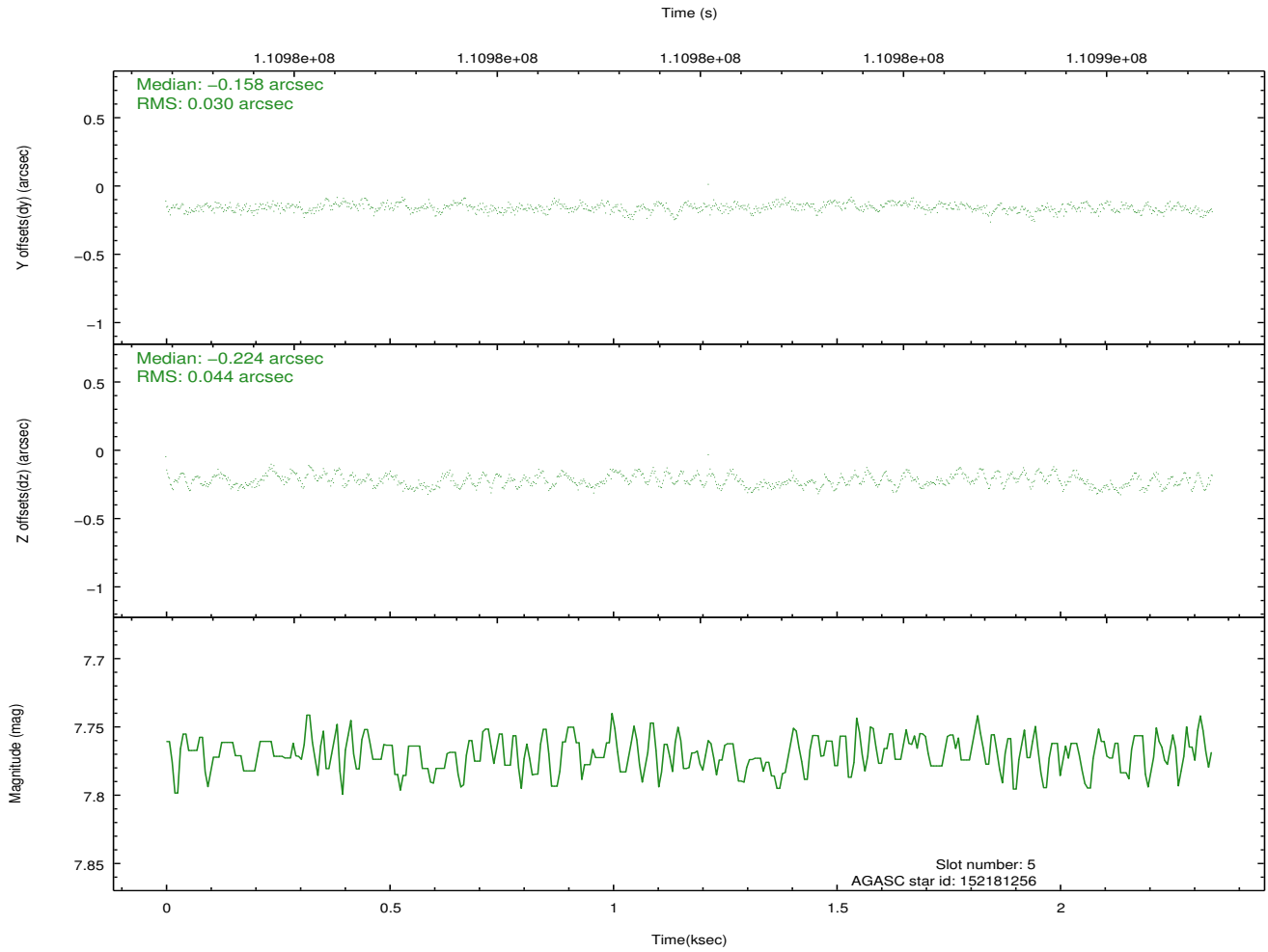
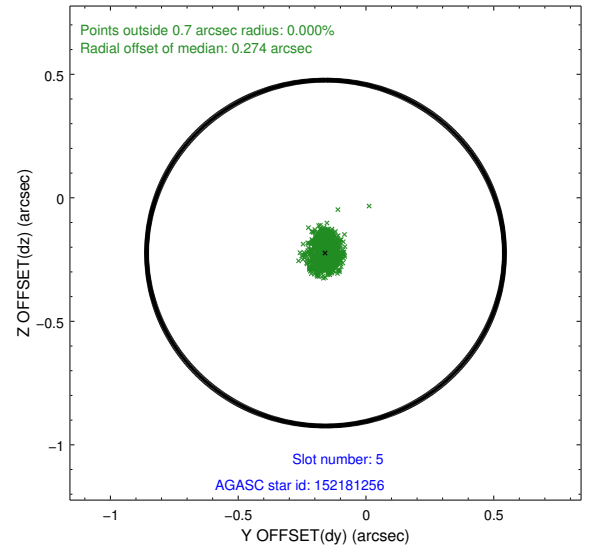
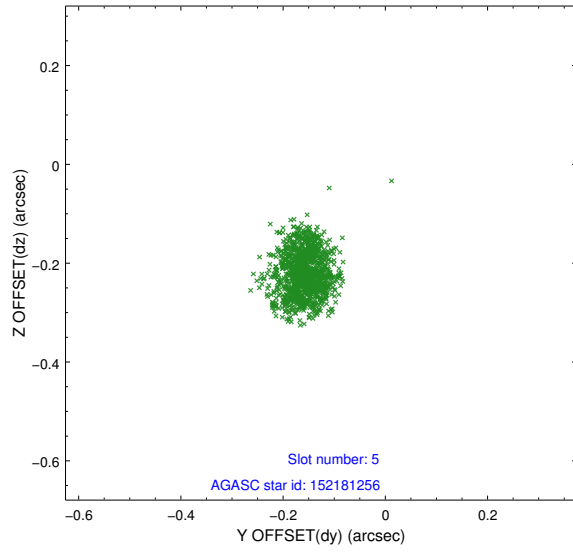
2.4.1 Slot 3



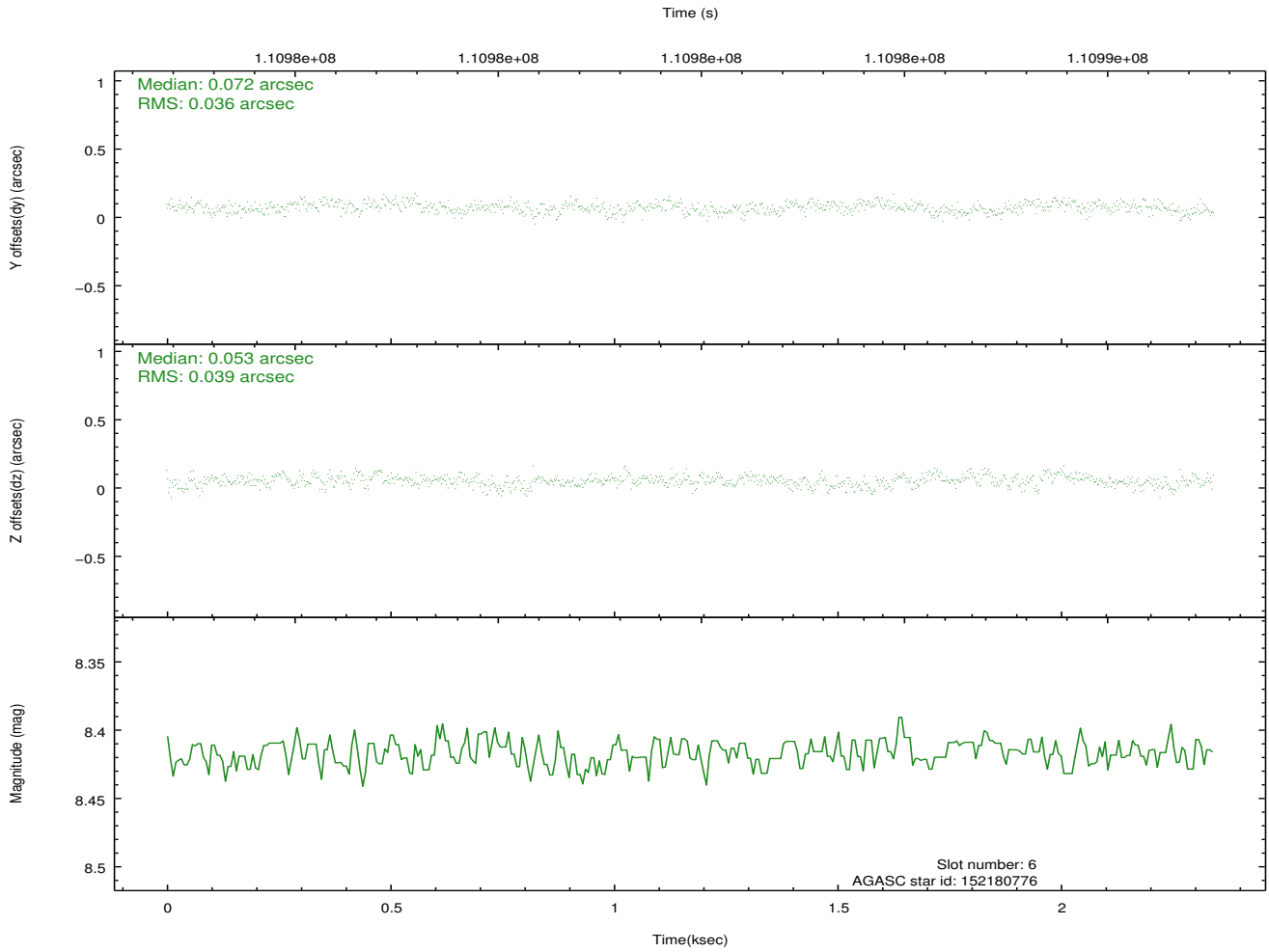
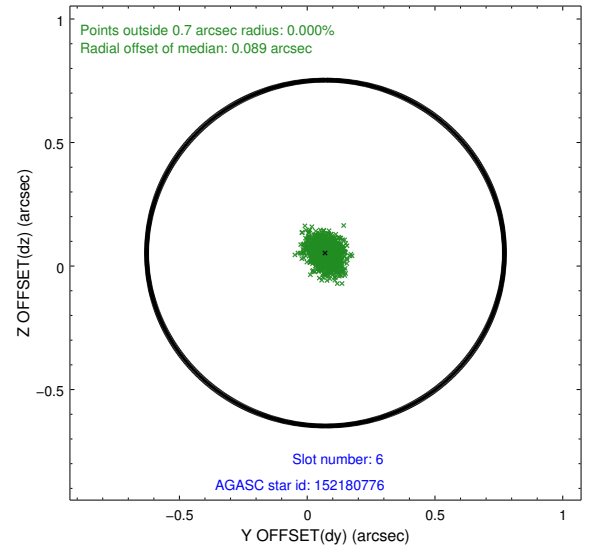
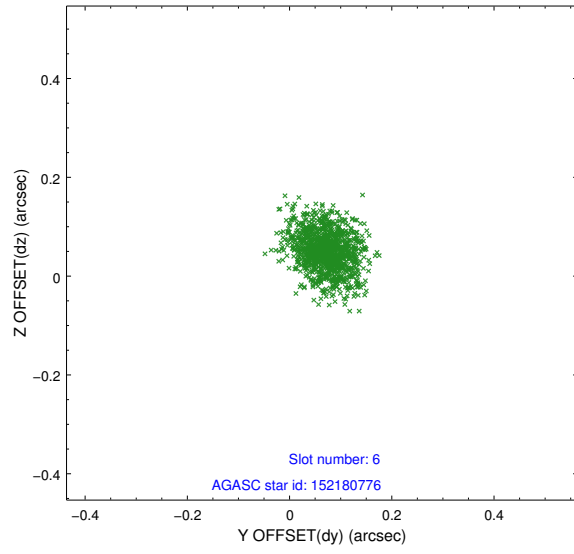
2.4.2 Slot 4



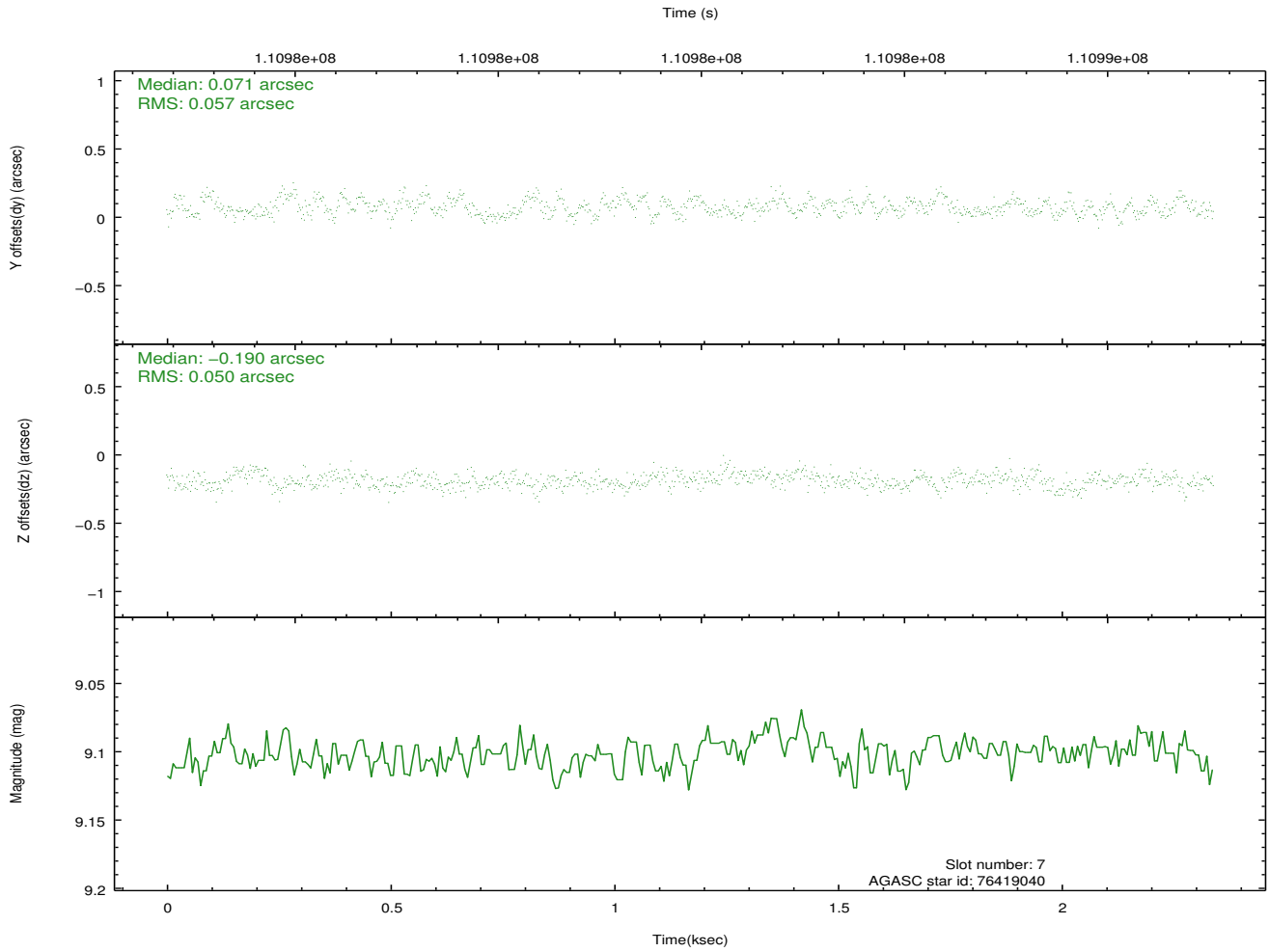
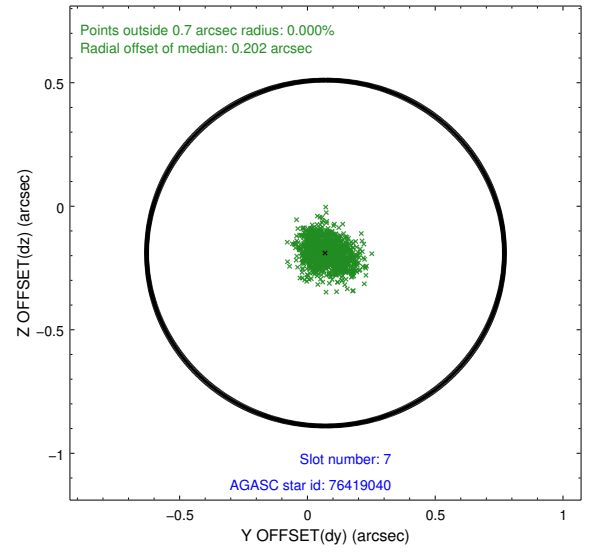
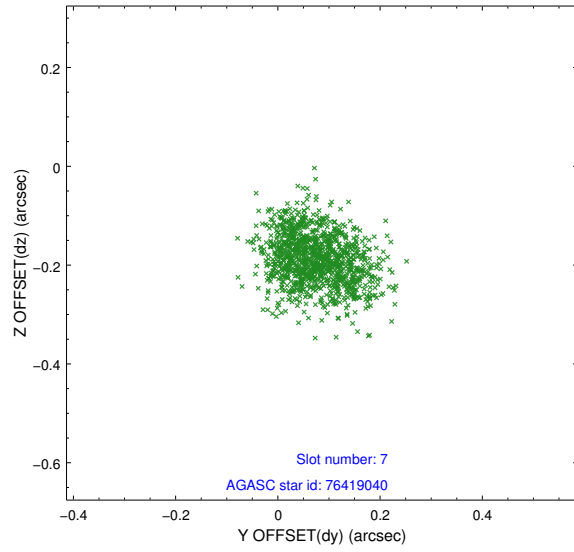
2.4.3 Slot 5



2.4.4 Slot 6

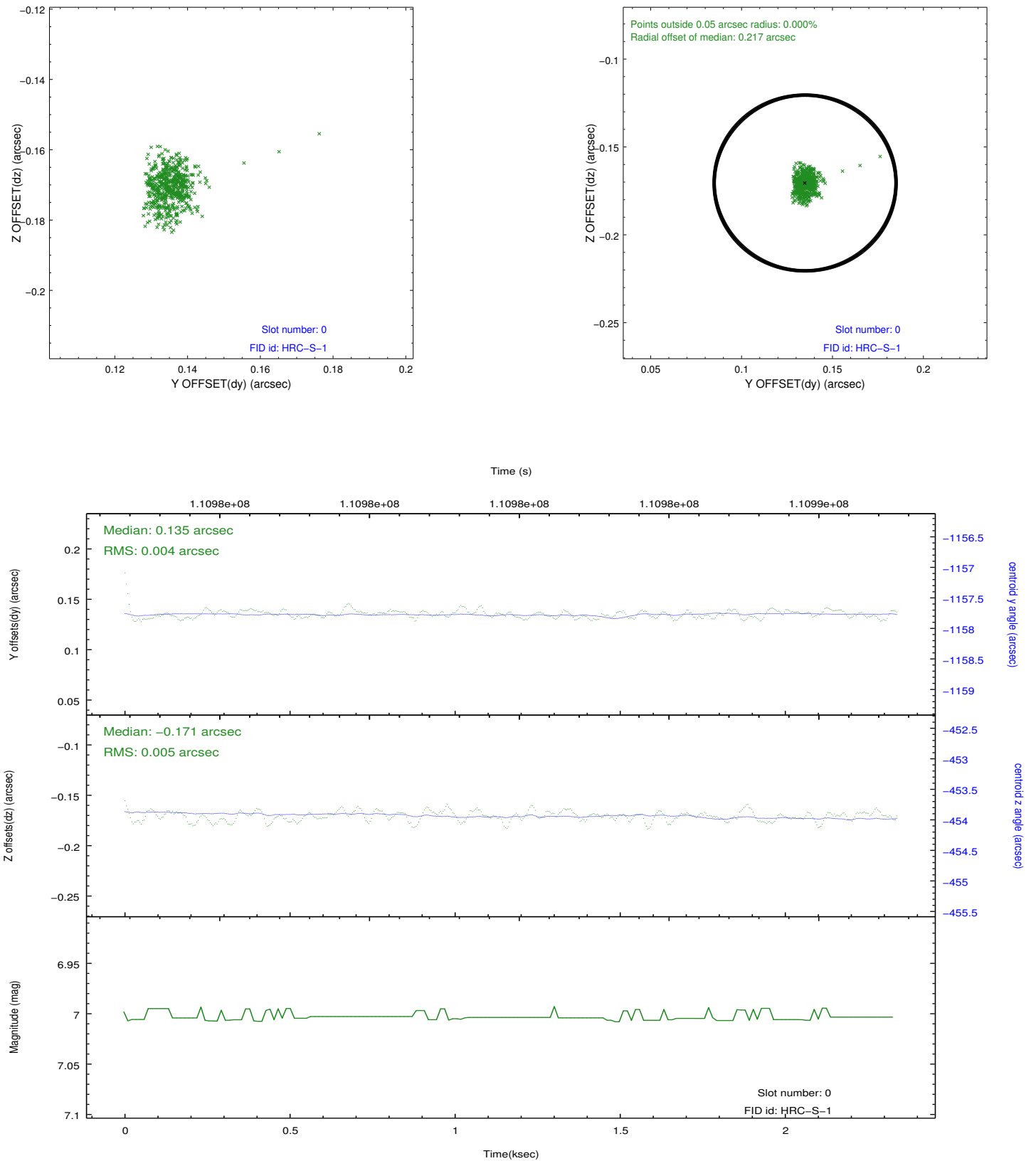


2.4.5 Slot 7

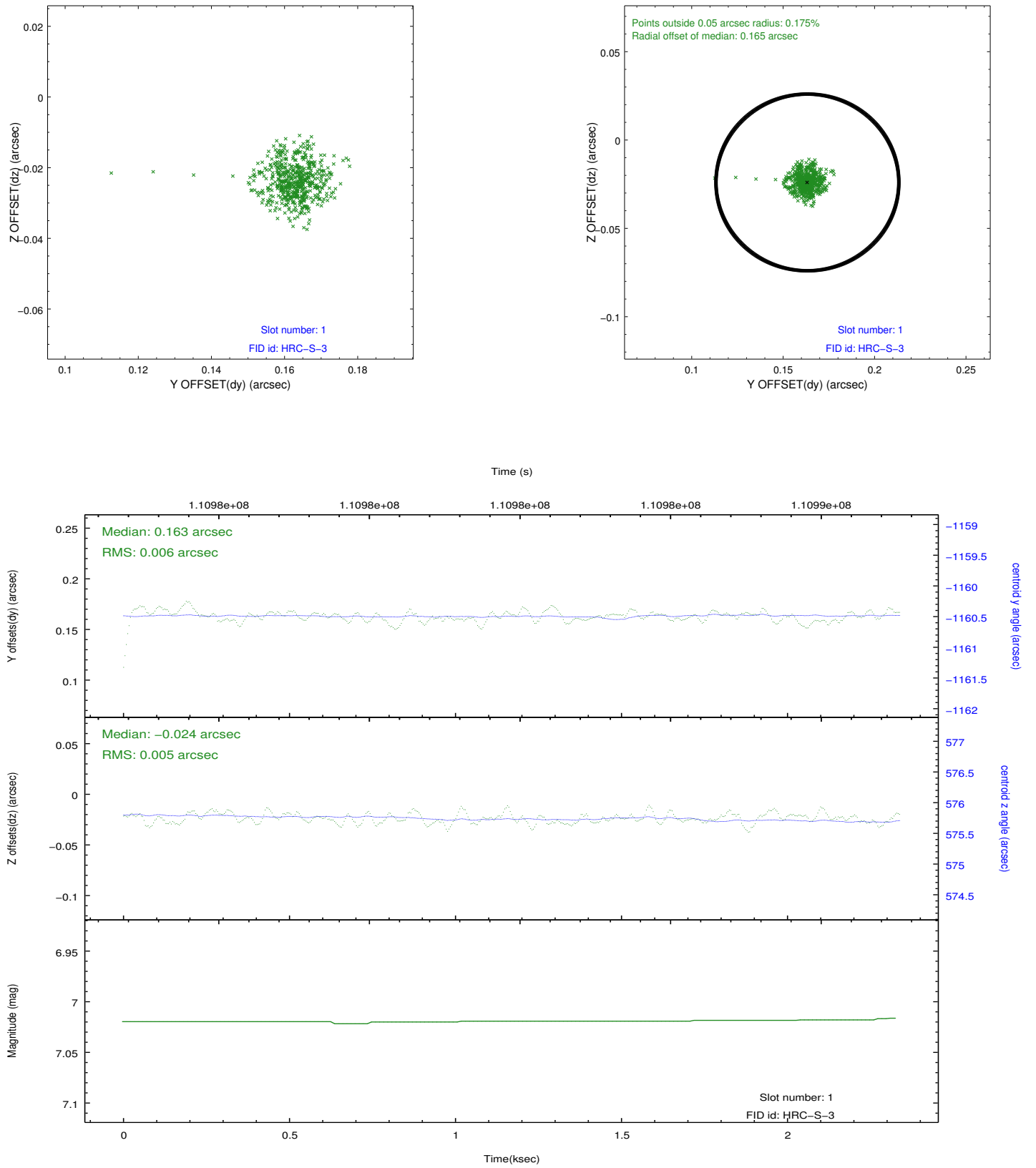


2.5 FID Slots

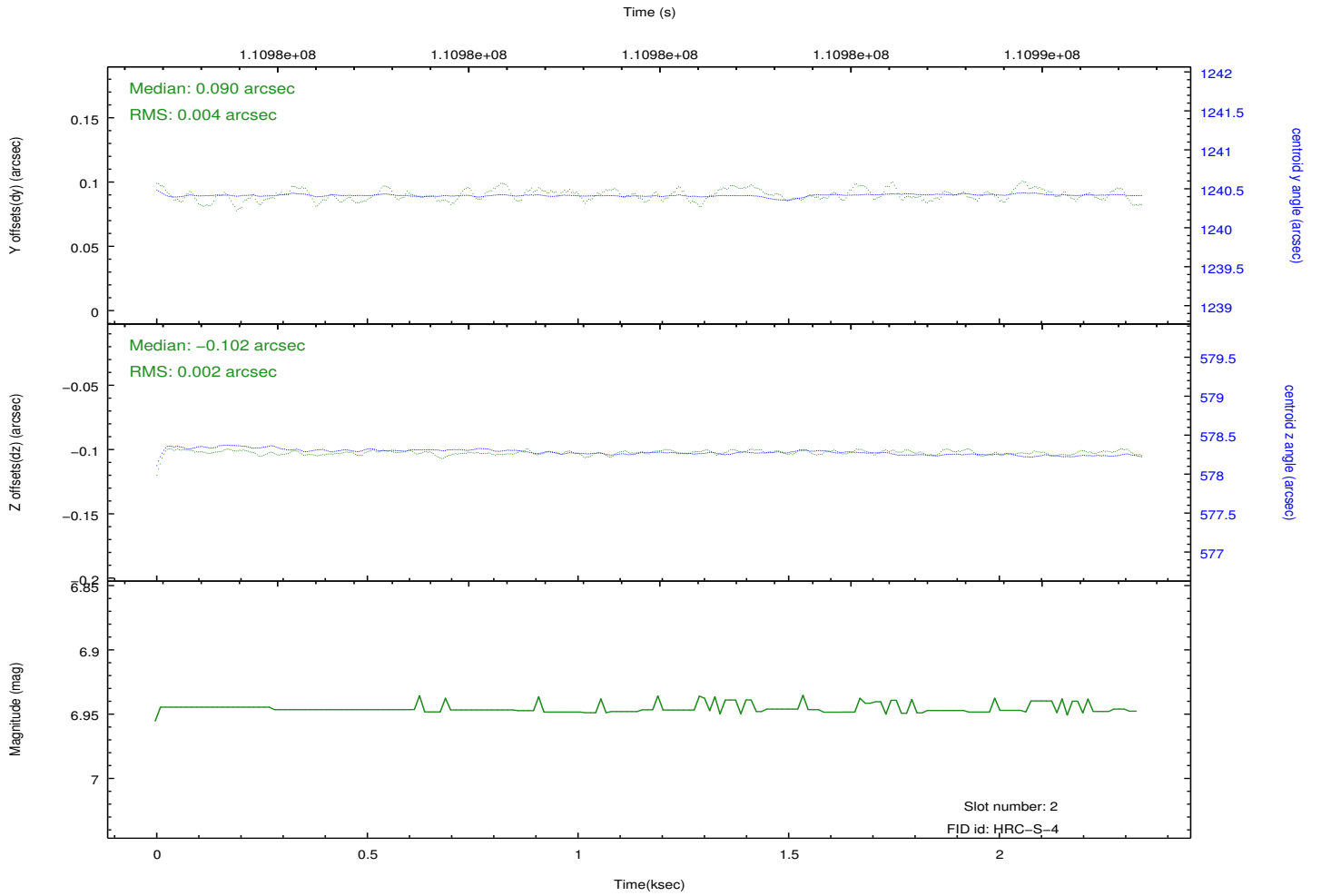
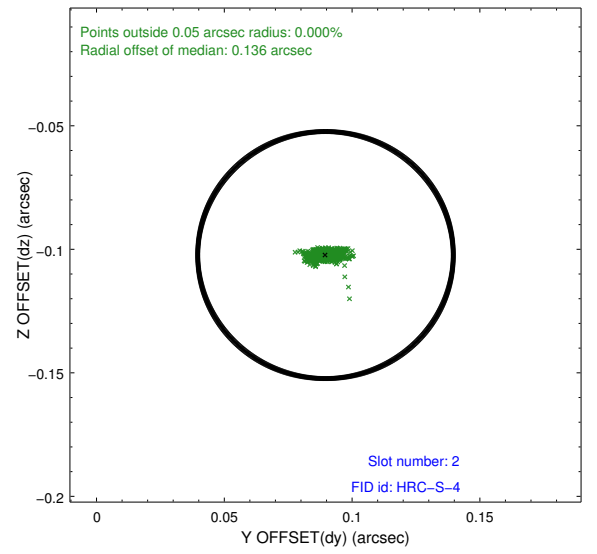
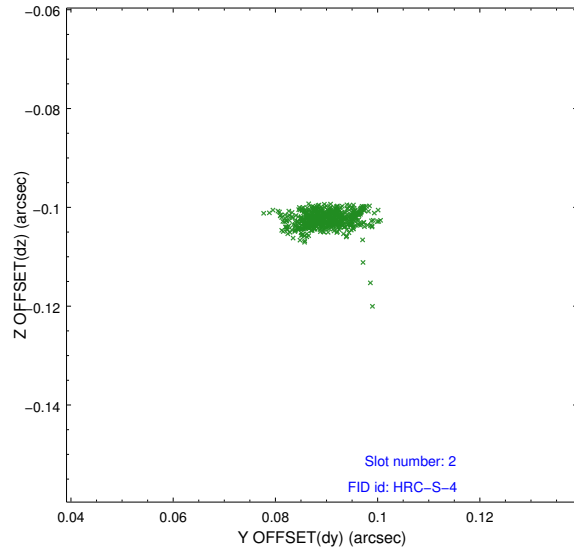
2.5.1 Slot 0



2.5.2 Slot 1

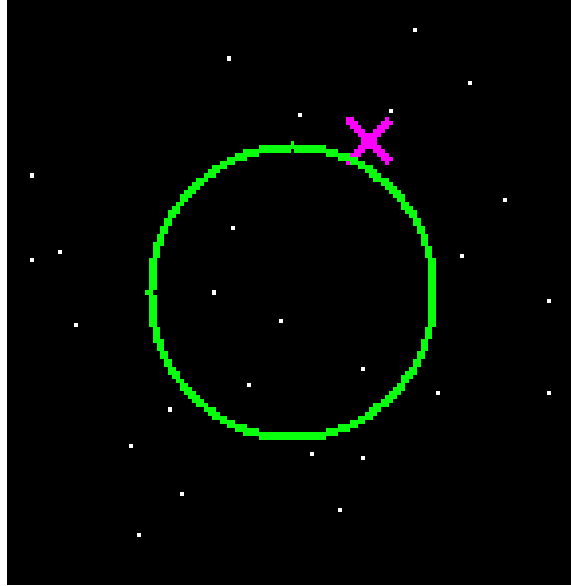


2.5.3 Slot 2

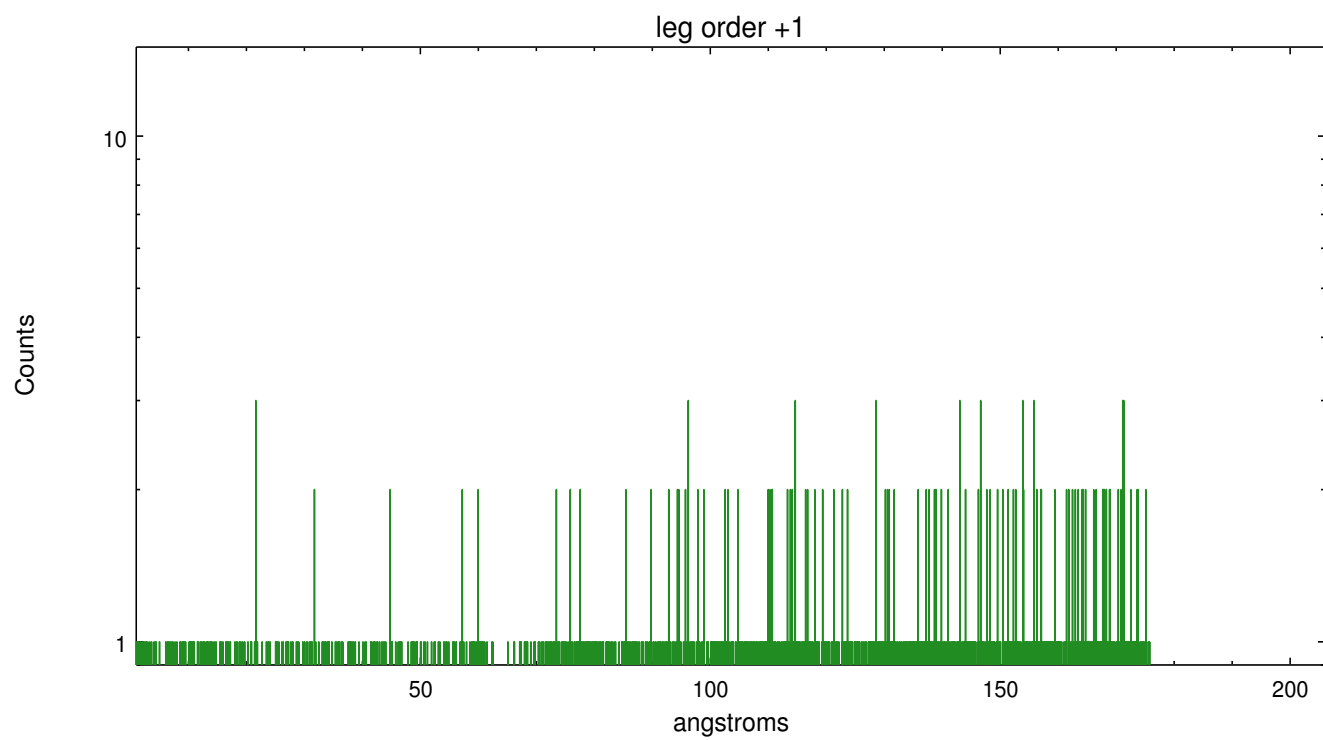
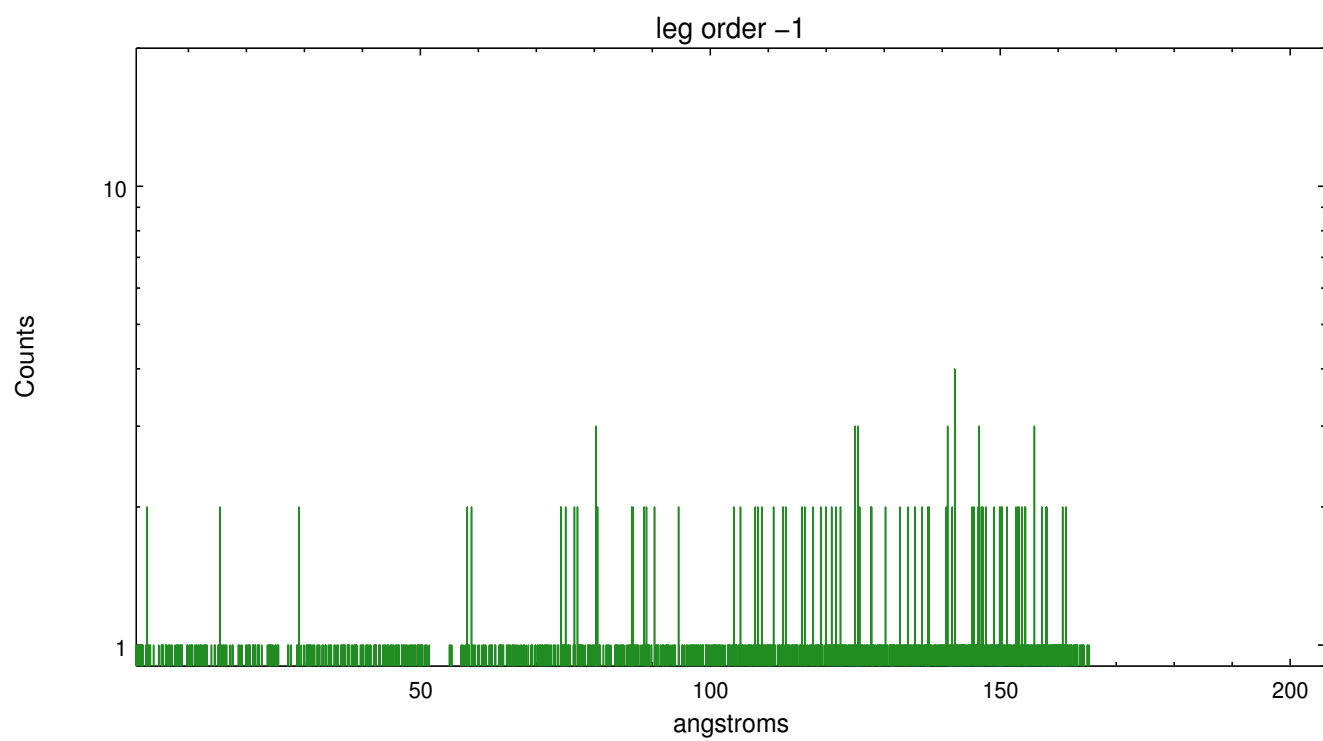


3 Gratings

3.1 LETG Arm



LETG Zero Order



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.333

A.2 Comments

Charge time for this ObsId remains at previous value of 2.333 ks, although with the current processing the charge time would be 2.294 ks.

===

This is an observation of a moving target. Event positions are in the reference from of Chandra, not of the comet. Users should run a software tool such as sso_freeze to reposition the events in the reference from of the comet, then run normal data analysis tools such as tgdetect and spectral extraction.

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Standard software processing technique using the tool tgdetect failed to determine an accurate position for the zeroth order for this observation. The target is moving through the field of view during the obdservation. The processing software defaulted to the coordinates supplied by the user for the position of the zeroth order for the grating spectral extraction. Spectra products from this processing, which does not include sso_freeze, are not useful.