

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 1823 - L2 Version 3
Chandra X-Ray Center

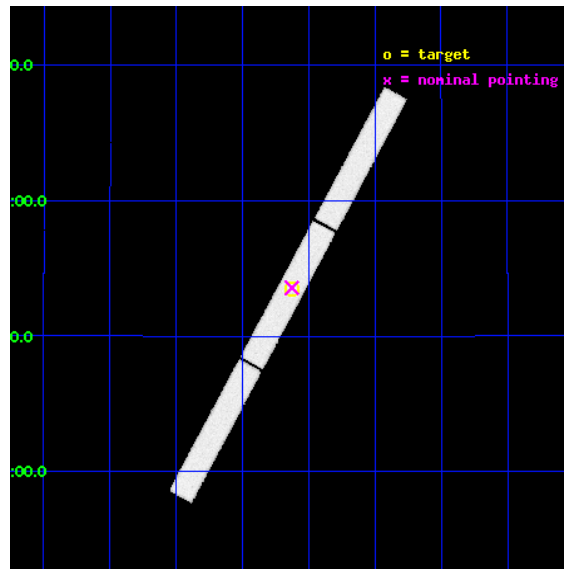
L2 Processing Date : Sep 20 2012

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1 Front

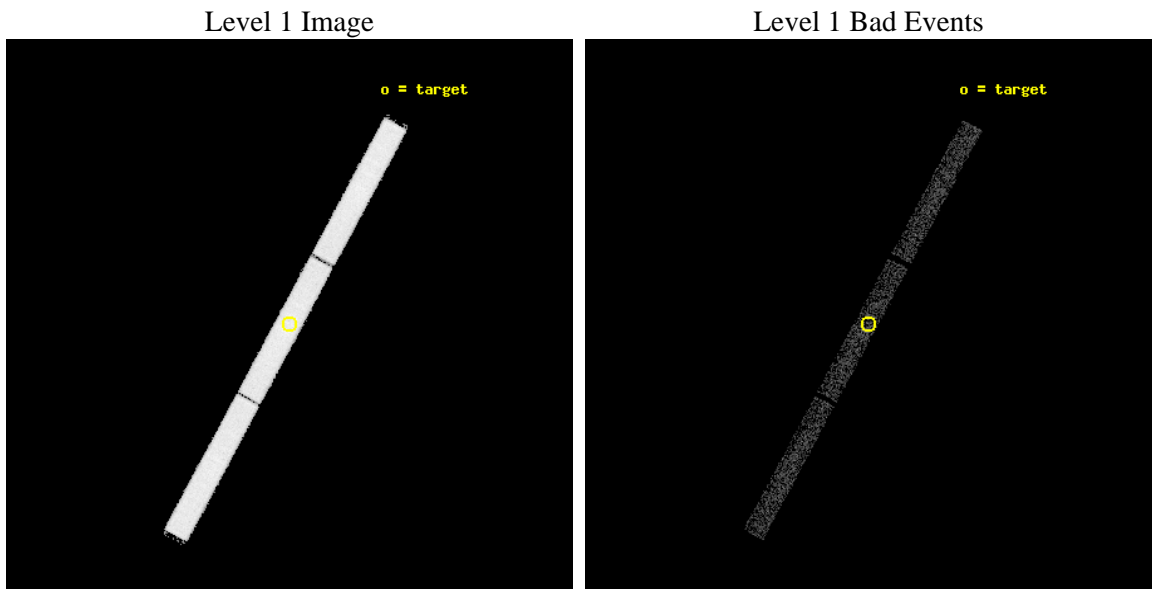
seq_num	100008	Sequence number
obs_id	1823	Observation id
title	SOLVING THE PUZZLE OF COMETARY X-RAY ORIGIN: OBSERVATIONS OF COMET 10P/TEMPEL 2	Proposal title
observer	DR W. THOMAS VESTRAND	Principal investigator
object	LINEAR 2001 A2	Source name
ra_targ	349.31544	Observer's specified target RA [deg]
dec_targ	7.674588	Observer's specified target Dec [deg]
ra_nom	349.31364340057	Nominal RA [deg]
dec_nom	7.6785716742205	Nominal Dec [deg]
roll_nom	118.32487954263	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2393.6313436329	[s]
liveltime	2377.0719364458	Ontime multiplied by DTCOR
l2events	153441	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	2250.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2393.6313436329	[s]
caldbver	4.5.1.1	 	l1events	243134	Number of level 1 events
date	2012-09-20T12:58:33	Date and time of file creation			
revision	3	Processing version of data			

2.1.3 Events

Level 1 Events

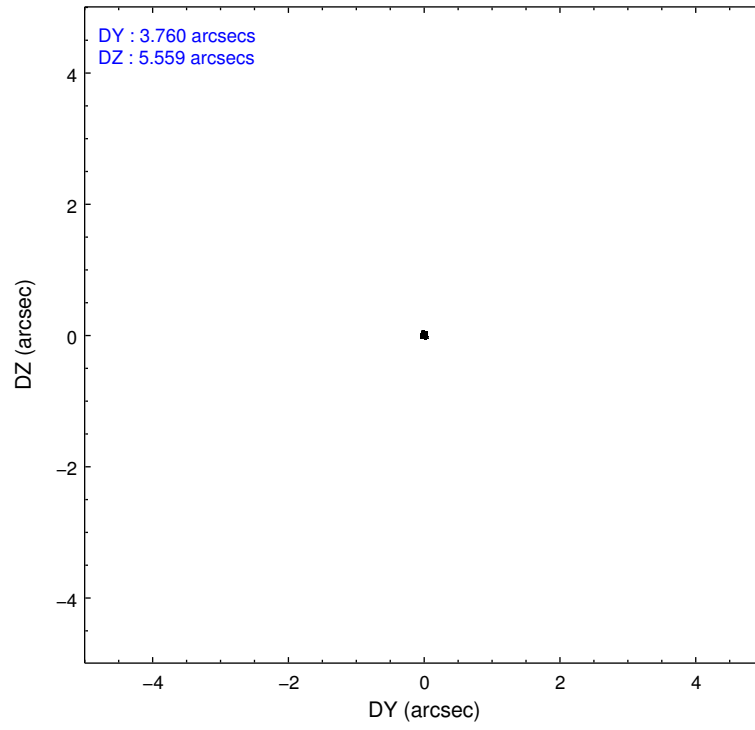
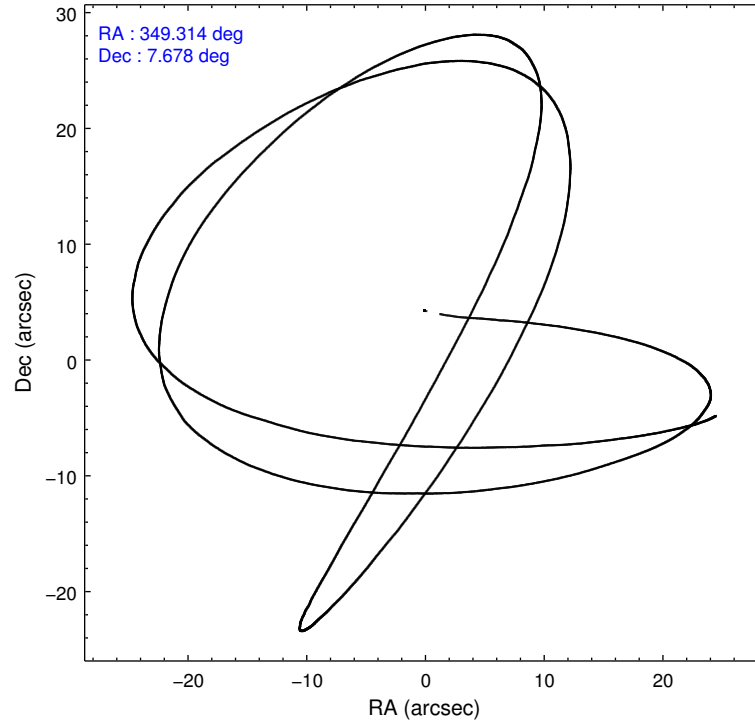
	segment 1	segment 2	segment 3
level 1 events	80883	80088	82163
rejected events	10258	10252	10411
rejected %	12%	12%	12%

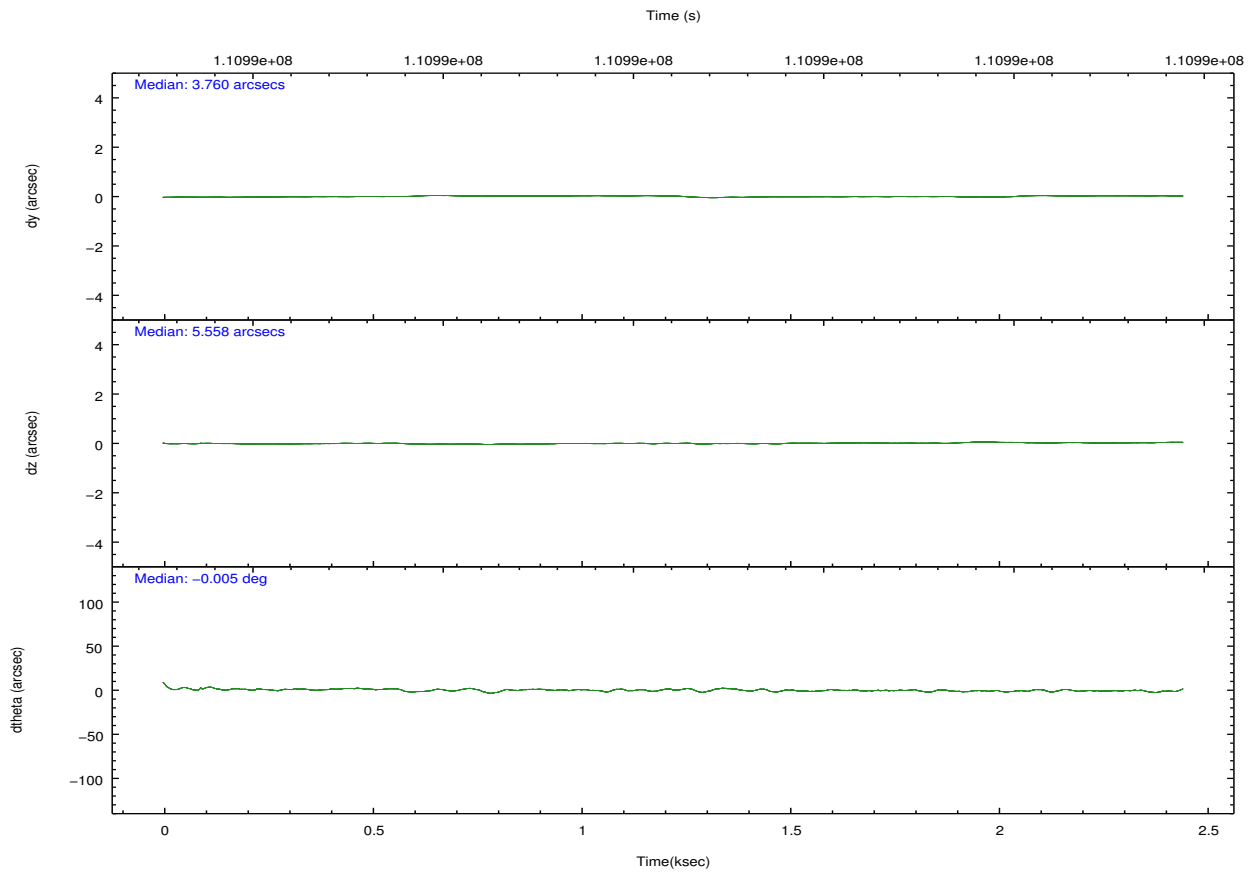
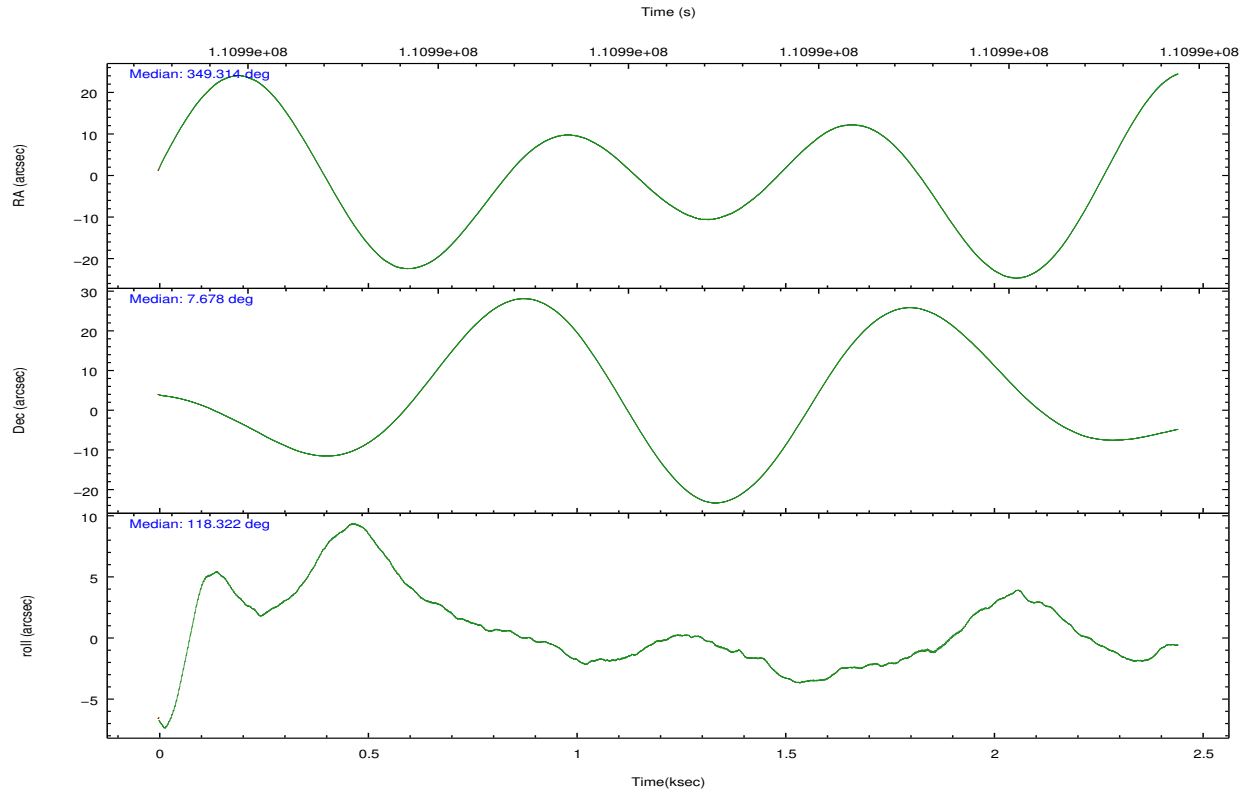
2.2 Compared Parameters

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	349.338601	349.3136434005694
[deg] Pointing Dec	7.664969	7.678571674220499
[deg] Pointing Roll	118.254230	118.3248795426289
[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)	110991574.184000	110991198.2074
Observation start date	2001-07-08T14:58:30	2001-07-08T14:53:18
[s] Observation end time (MET)	110993824.184000	110993958.53251
Observation end date	2001-07-08T15:36:00	2001-07-08T15:39:18

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

2.3 Aspect



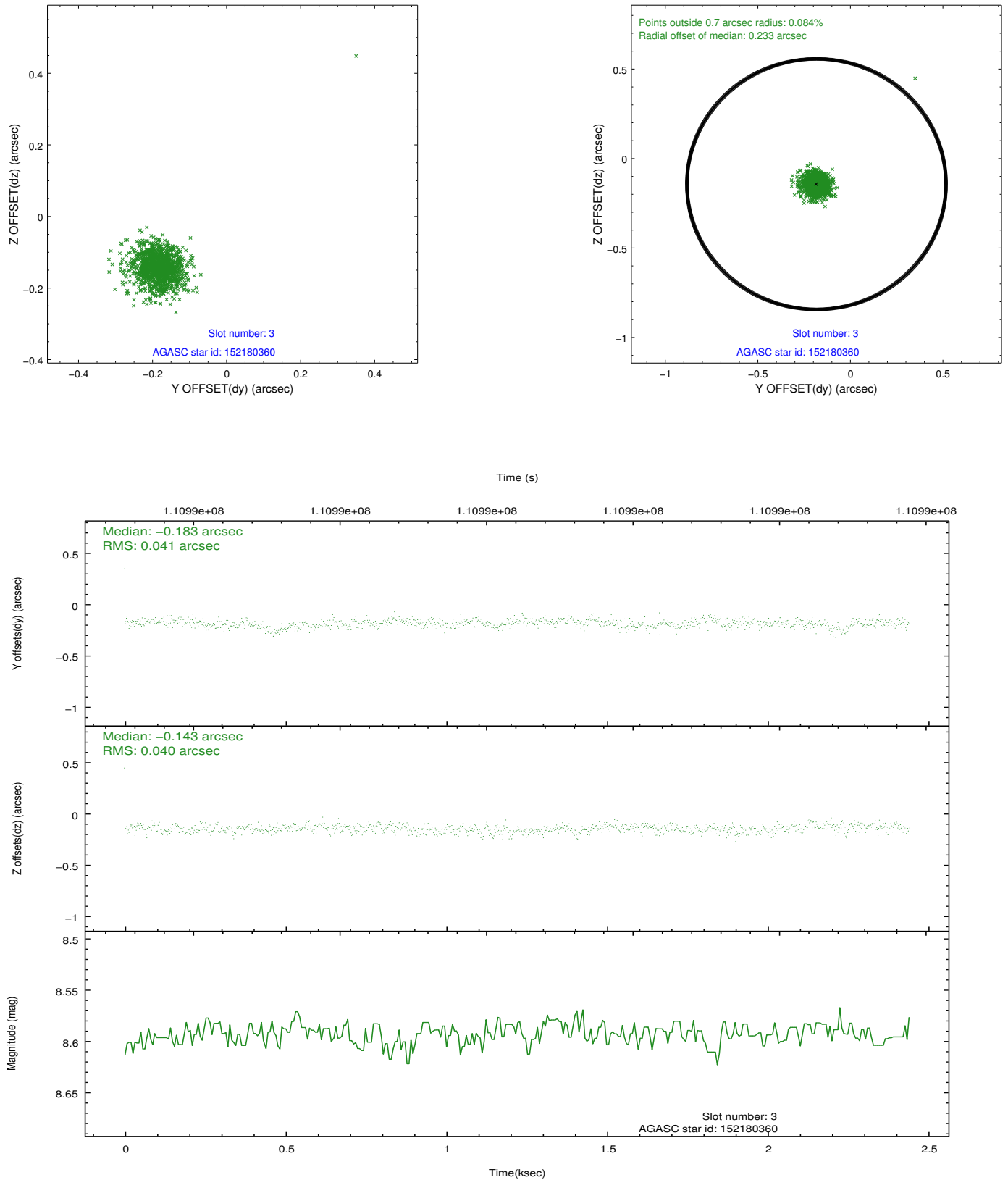


Slot Statistics

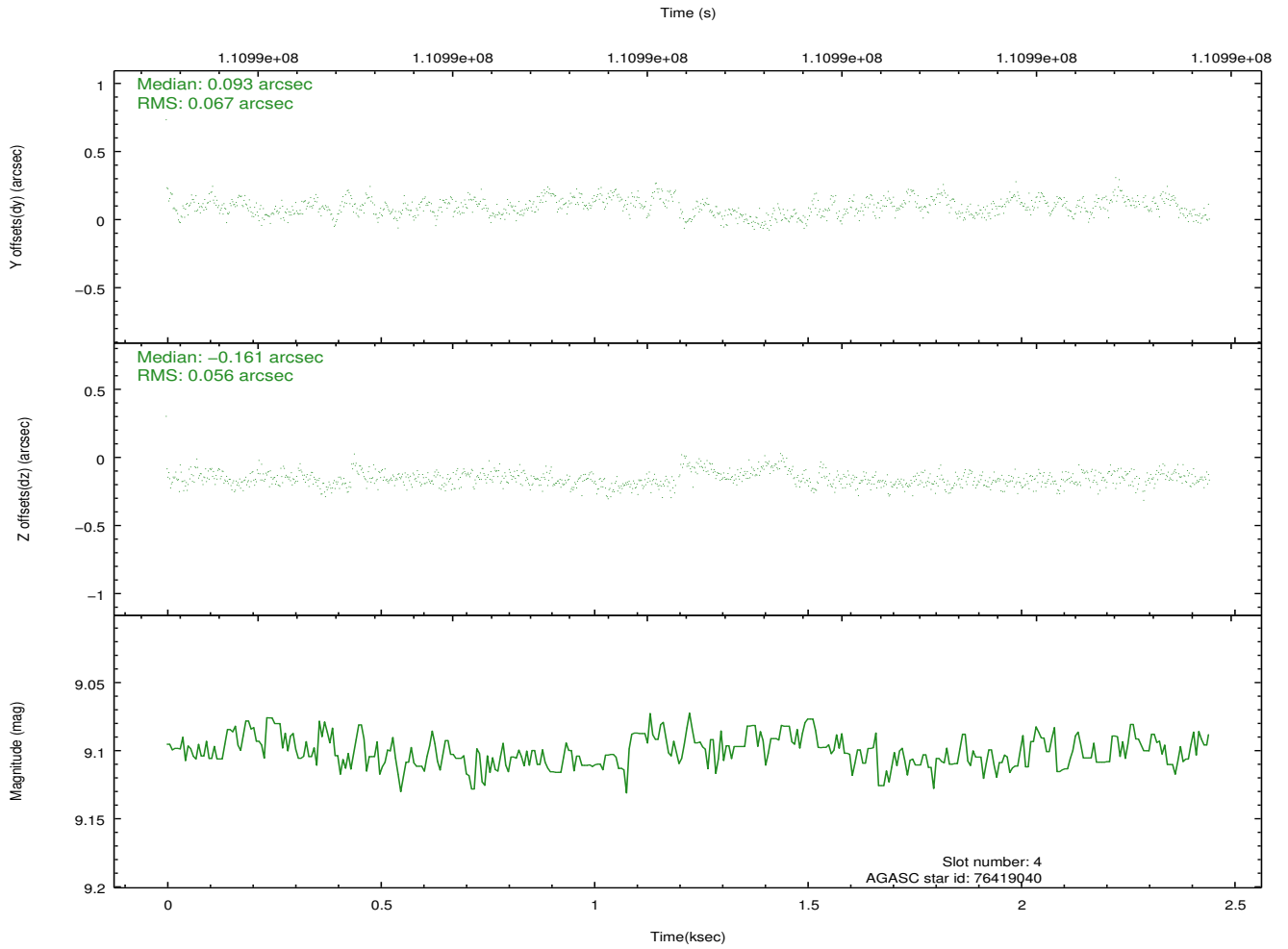
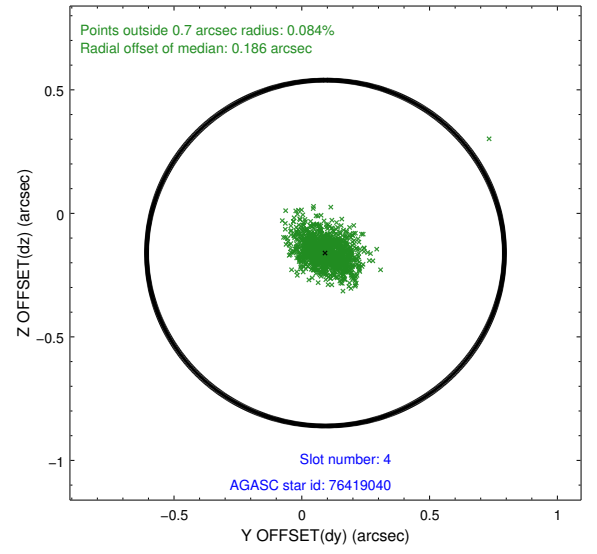
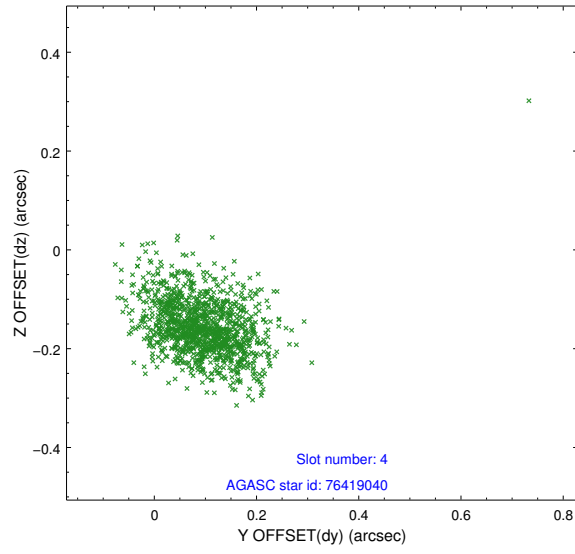
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.00	597	0.131	-0.164	0.006	0.010	0.000000	0.000000	-1157.82	-454.15
1	FID	HRC-S-3	7.02	597	0.169	-0.033	0.008	0.014	0.000000	0.000000	-1162.47	574.75
2	FID	HRC-S-4	6.94	597	0.088	-0.101	0.005	0.010	0.000000	0.000000	1238.42	579.04
3	GUIDE	152180360	8.59	1191	-0.183	-0.143	0.055	0.093	349.110181	8.037159	1566.62	83.30
4	GUIDE	76419040	9.10	1187	0.093	-0.161	0.088	0.151	349.315769	7.117648	-1694.76	1005.00
5	GUIDE	152180776	8.42	1193	0.066	0.055	0.062	0.102	349.576658	7.835091	137.40	-1036.54
6	GUIDE	152187192	8.91	1192	-0.178	0.143	0.070	0.119	349.378103	8.213055	1672.33	-1058.17
7	GUIDE	76420240	7.26	1192	0.209	0.111	0.055	0.086	349.834746	7.214951	-2262.50	-794.91

2.4 Star Slots

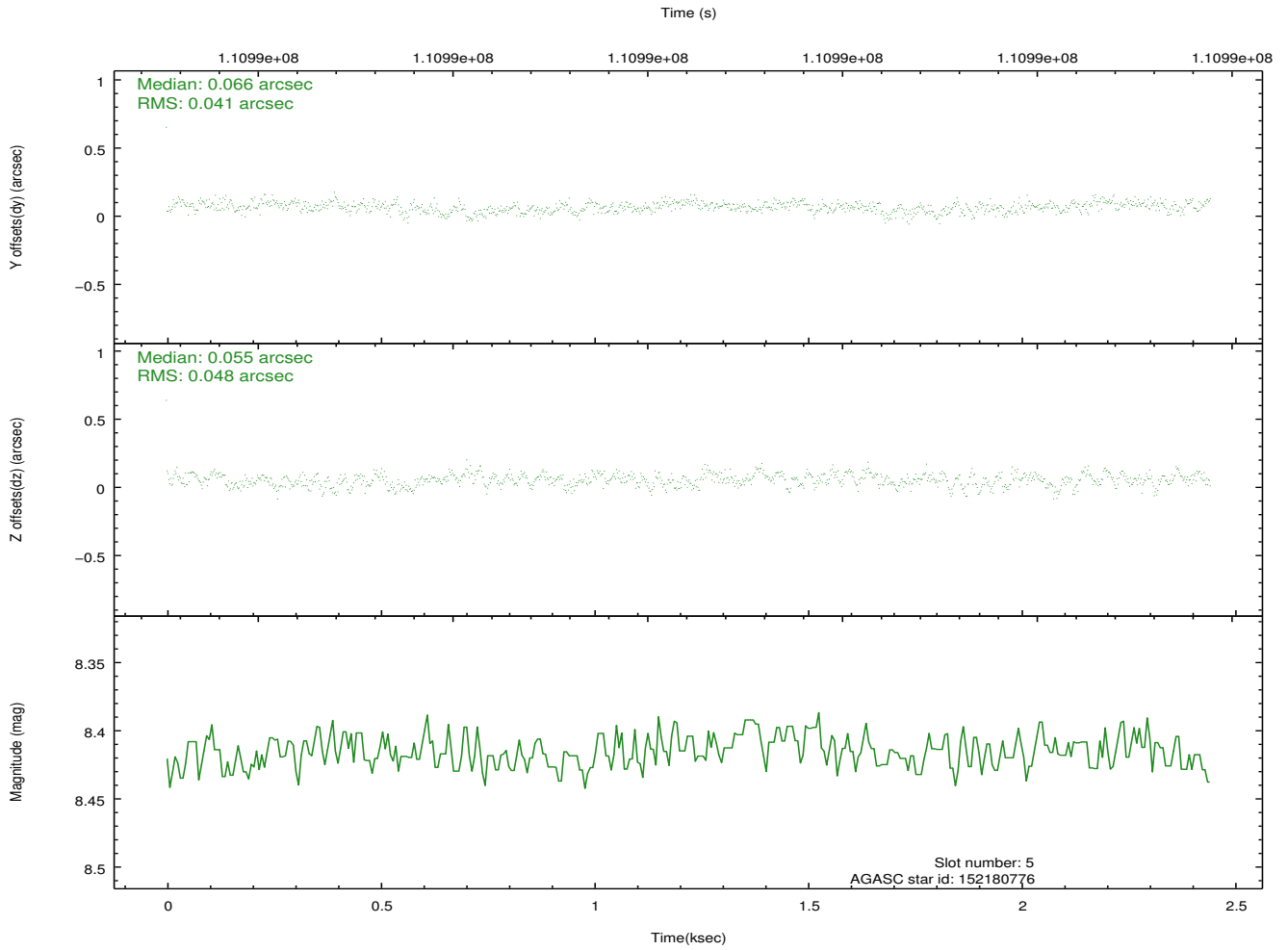
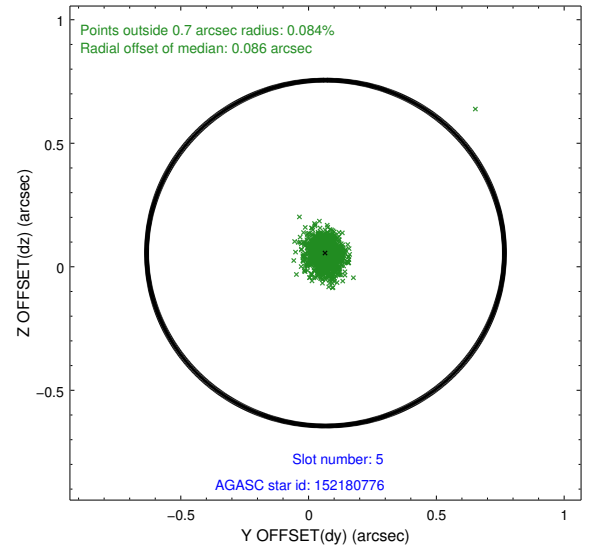
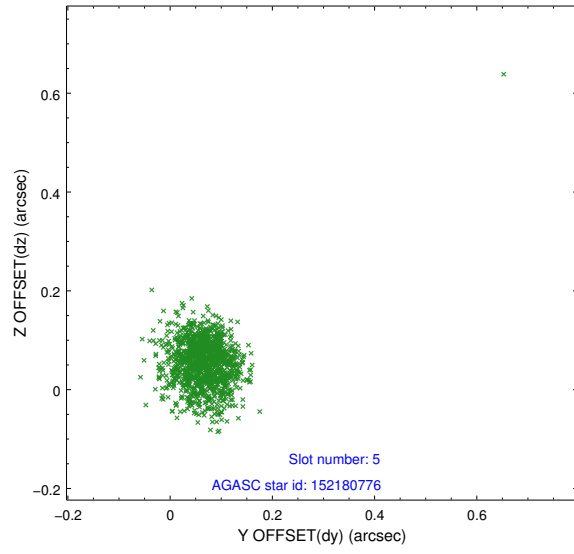
2.4.1 Slot 3



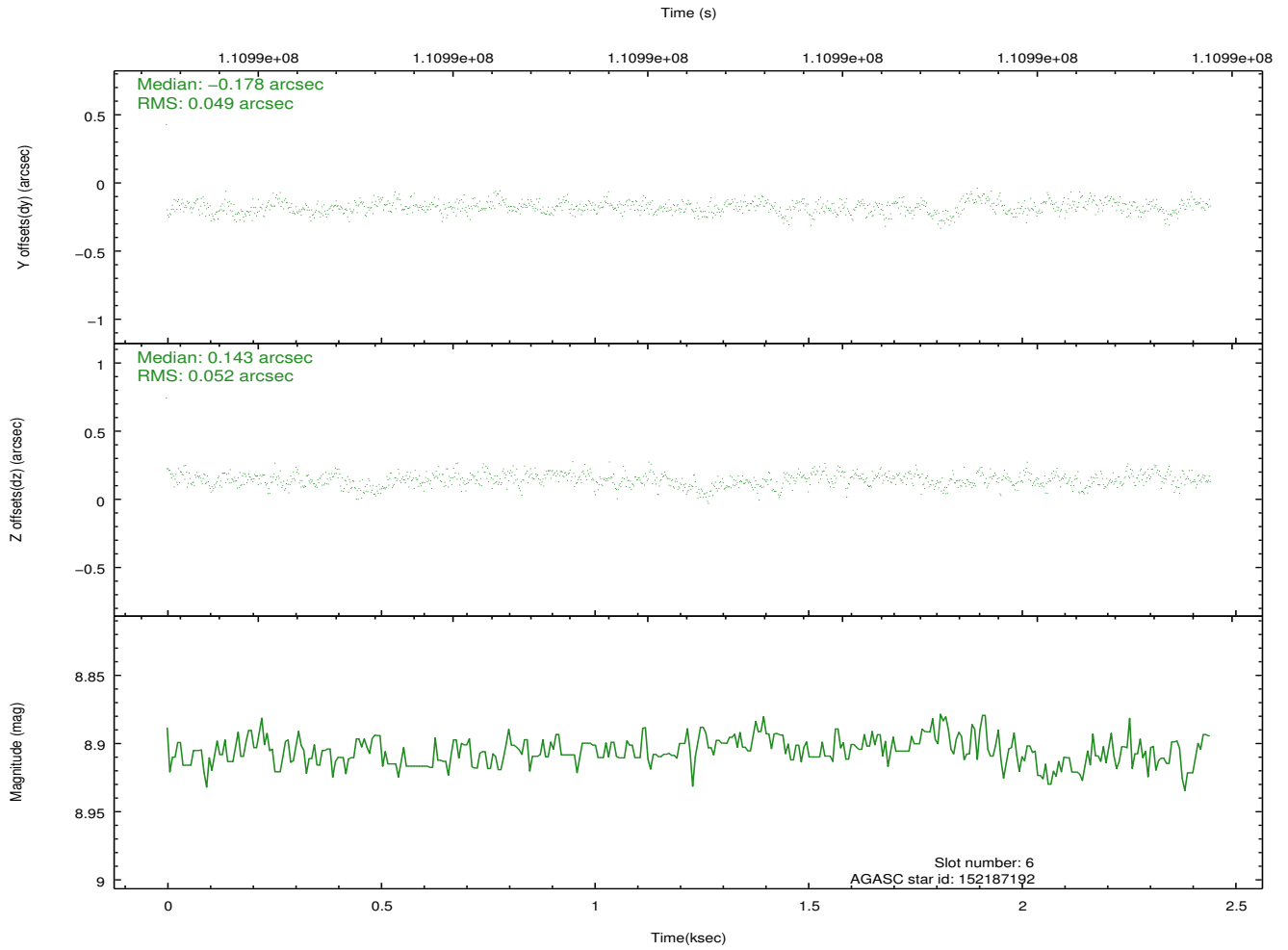
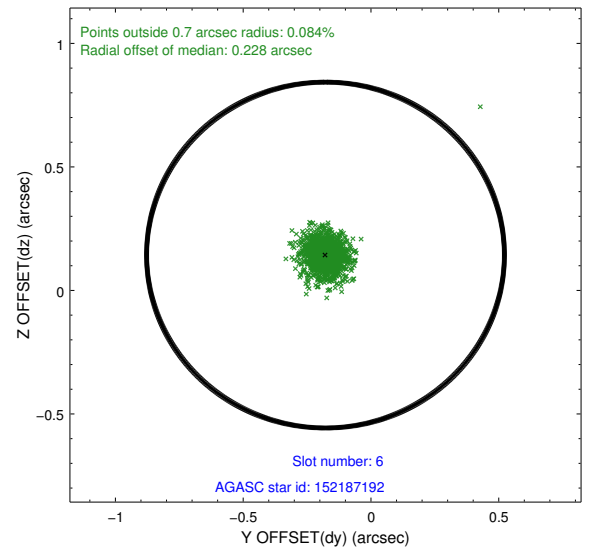
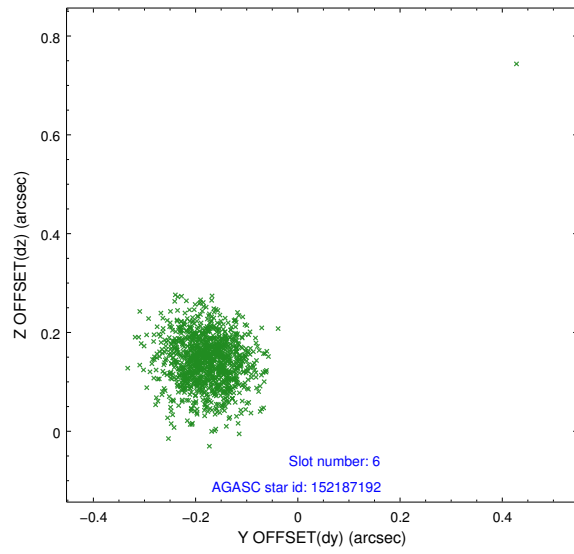
2.4.2 Slot 4



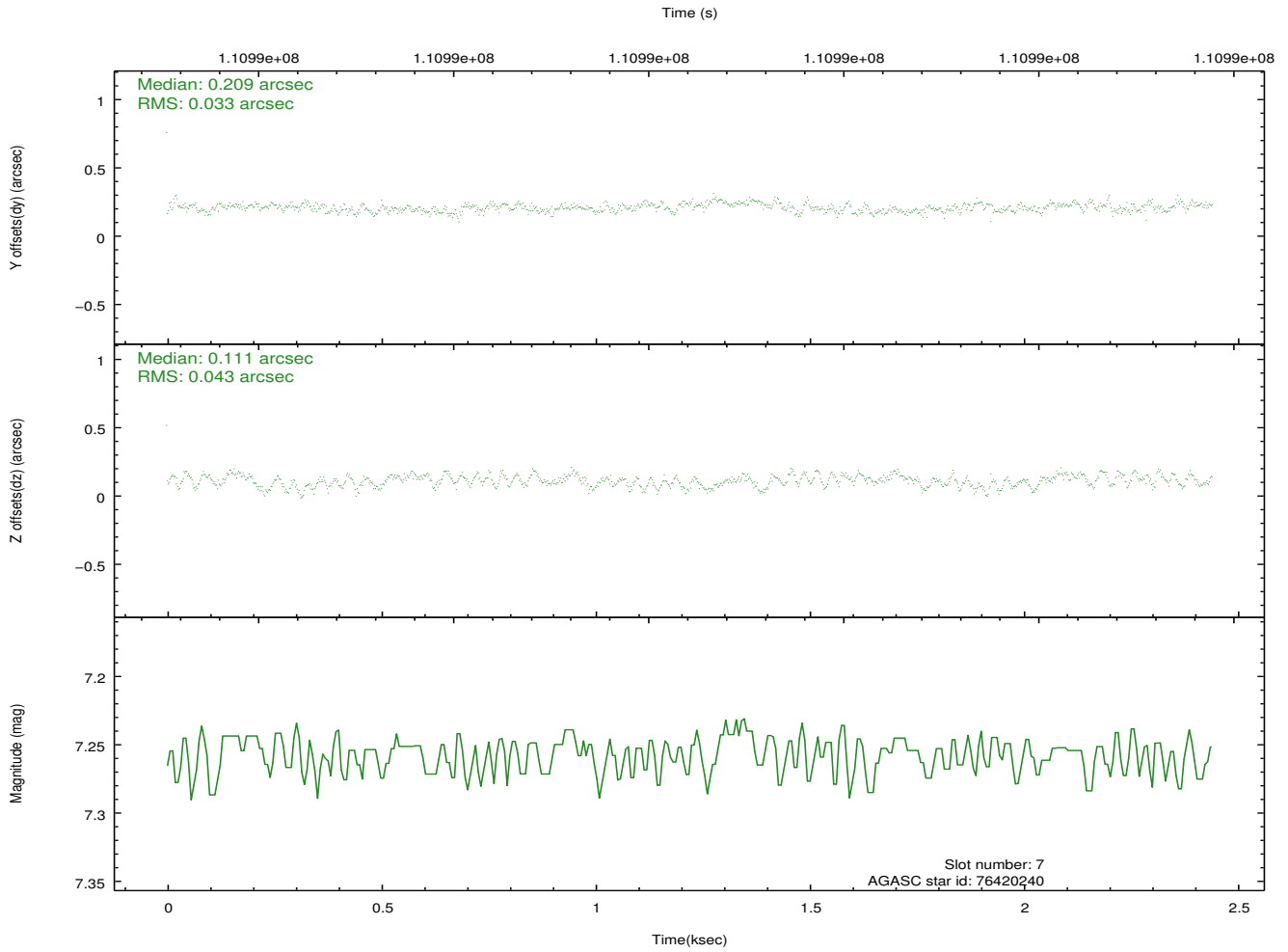
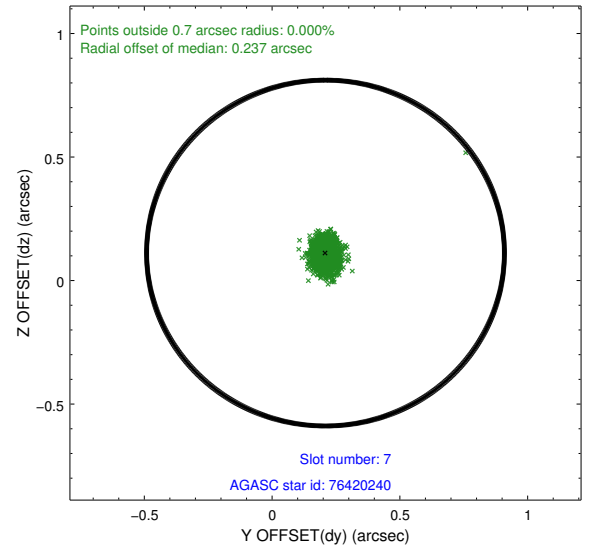
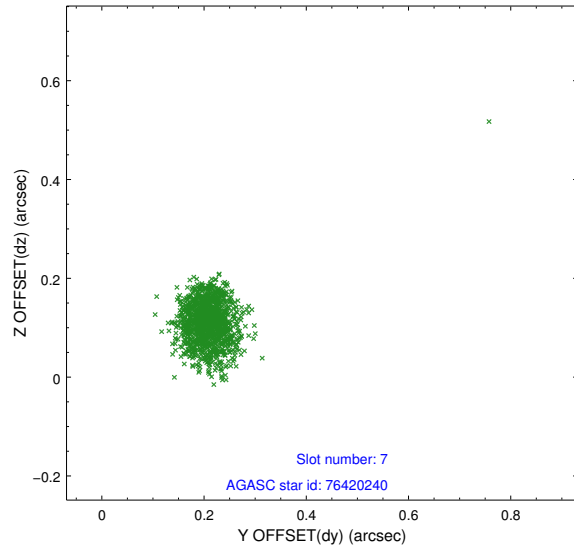
2.4.3 Slot 5



2.4.4 Slot 6

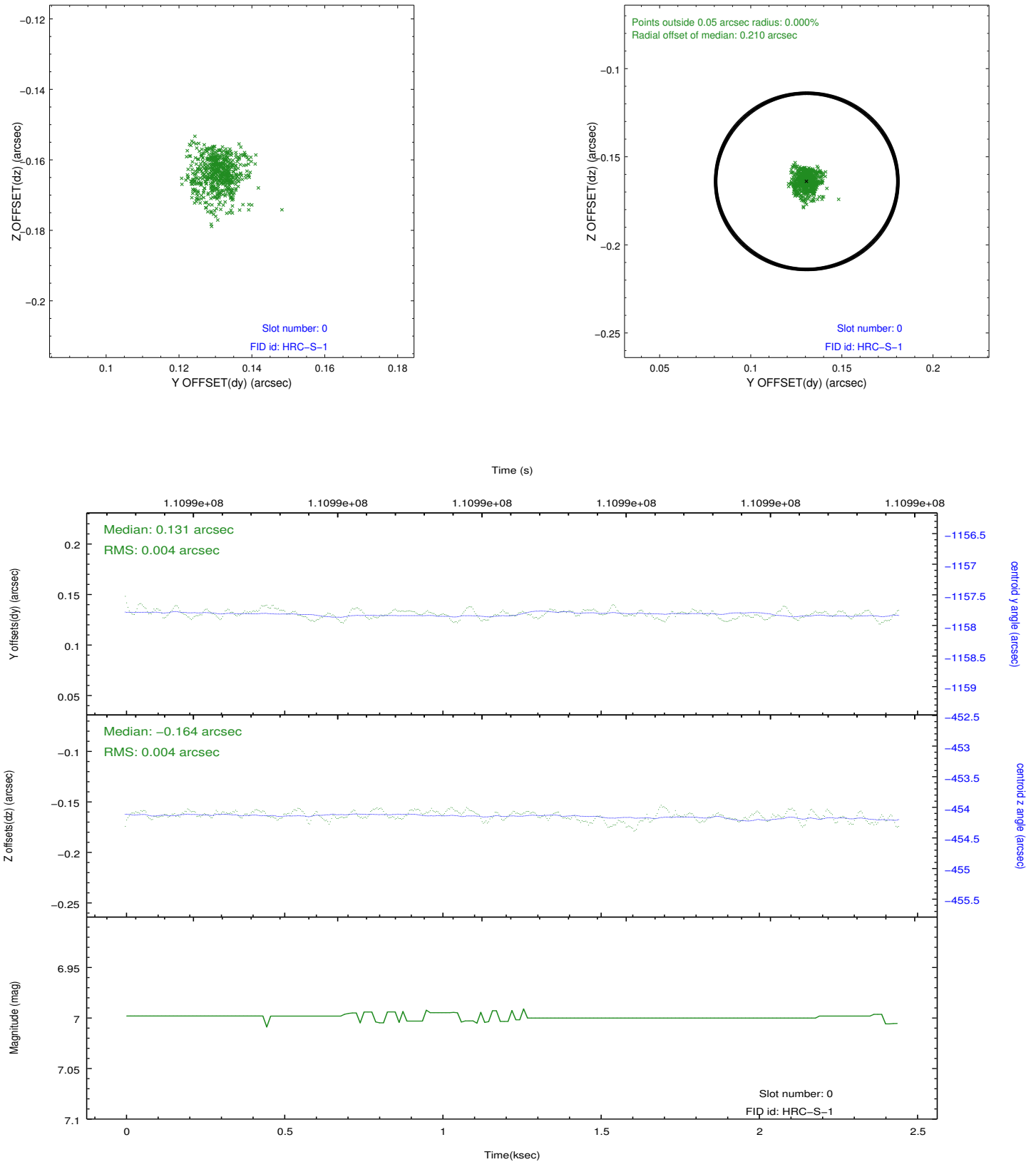


2.4.5 Slot 7

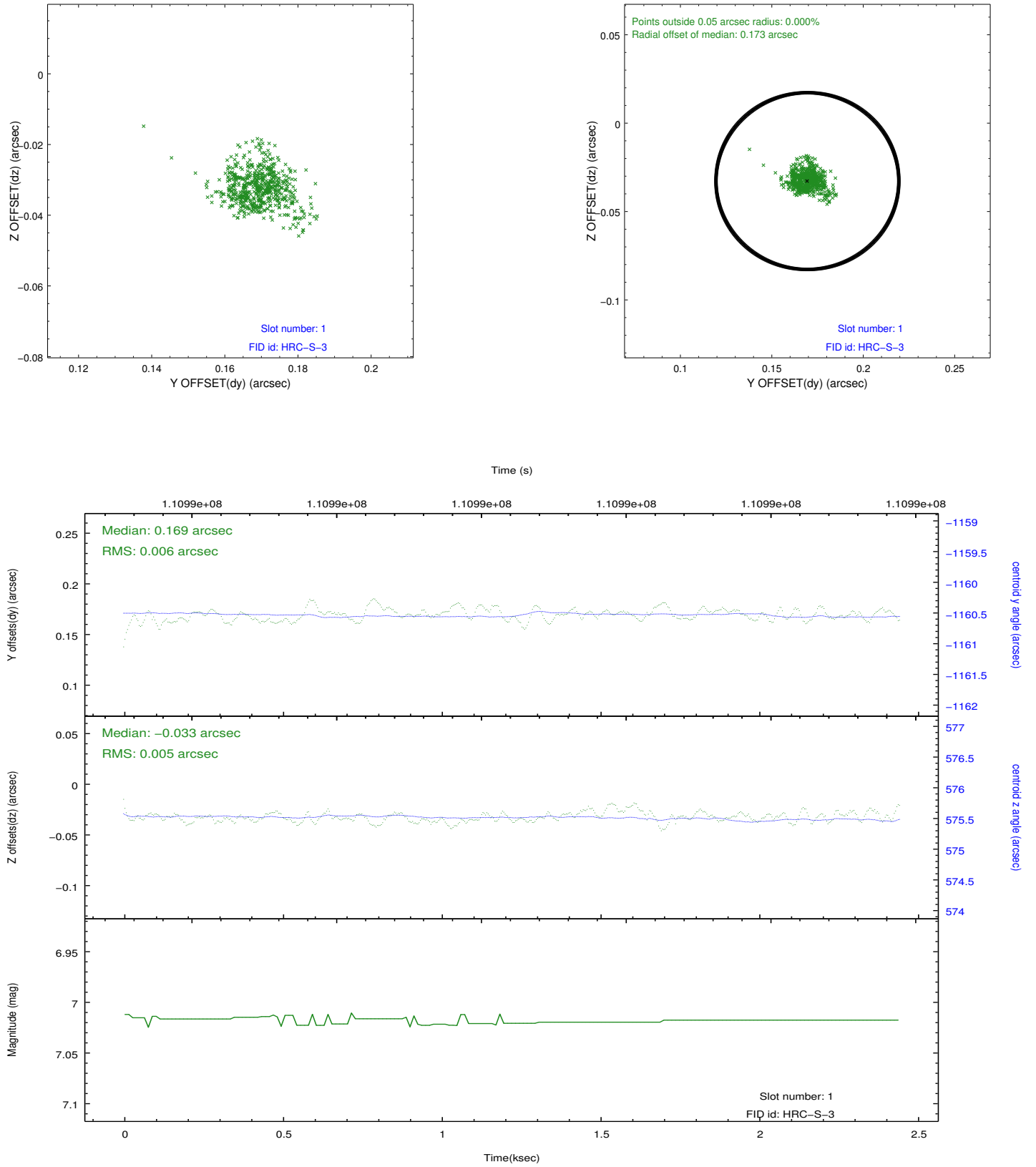


2.5 FID Slots

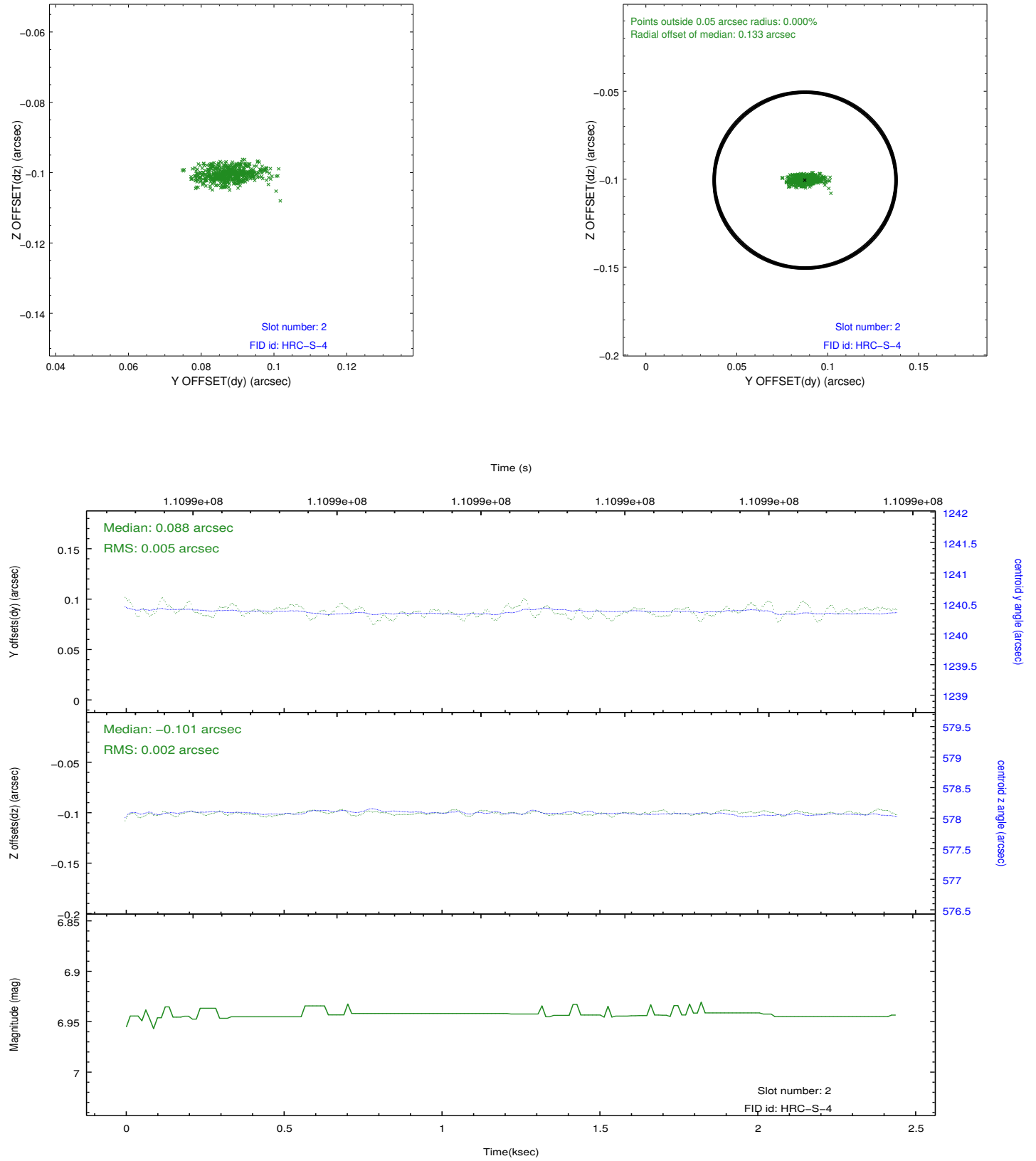
2.5.1 Slot 0



2.5.2 Slot 1

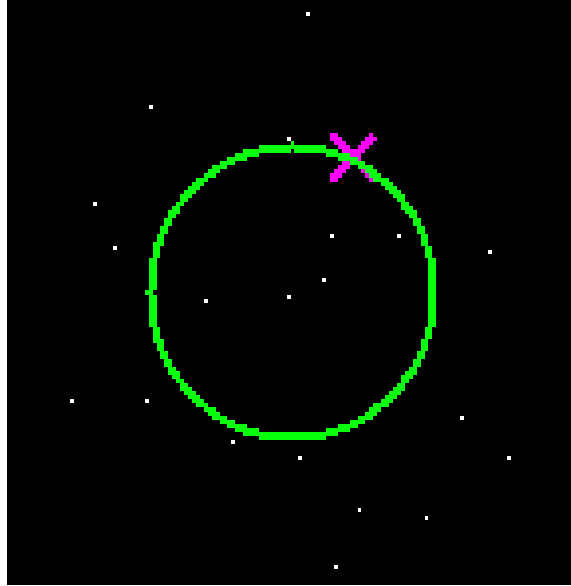


2.5.3 Slot 2

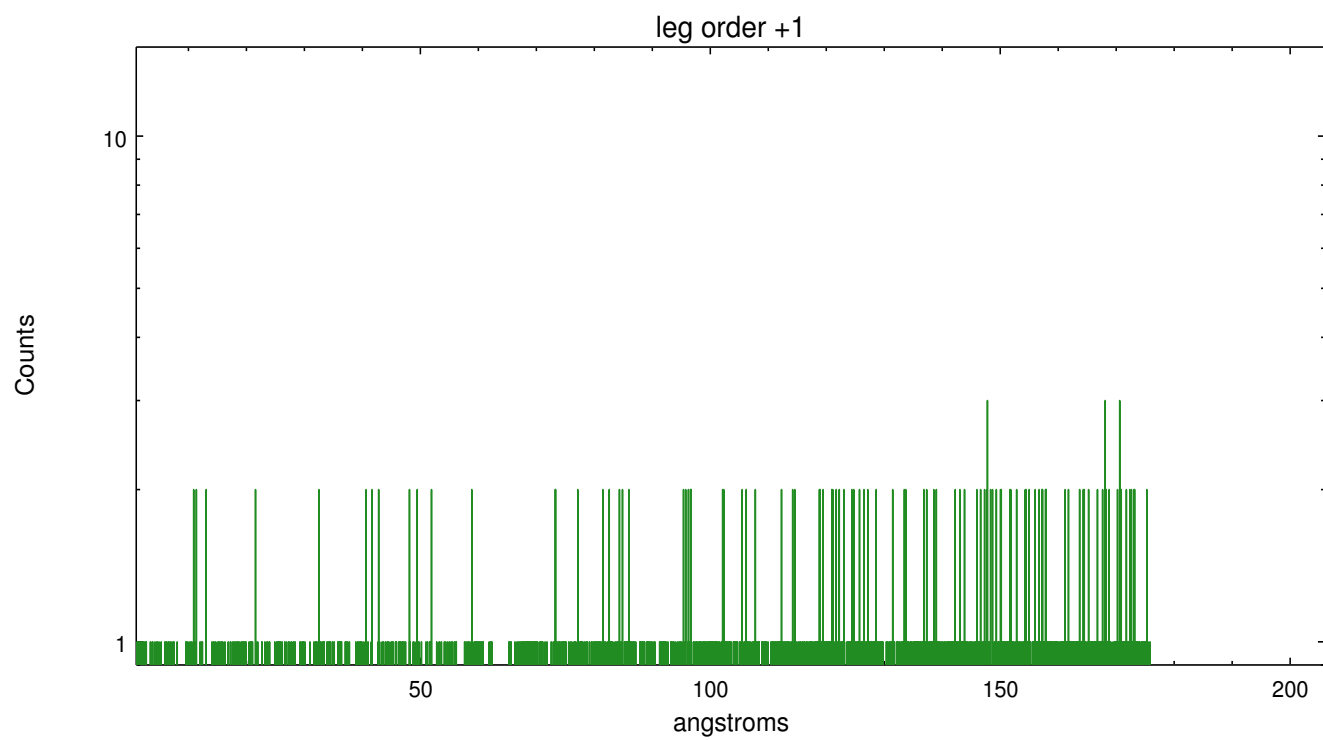
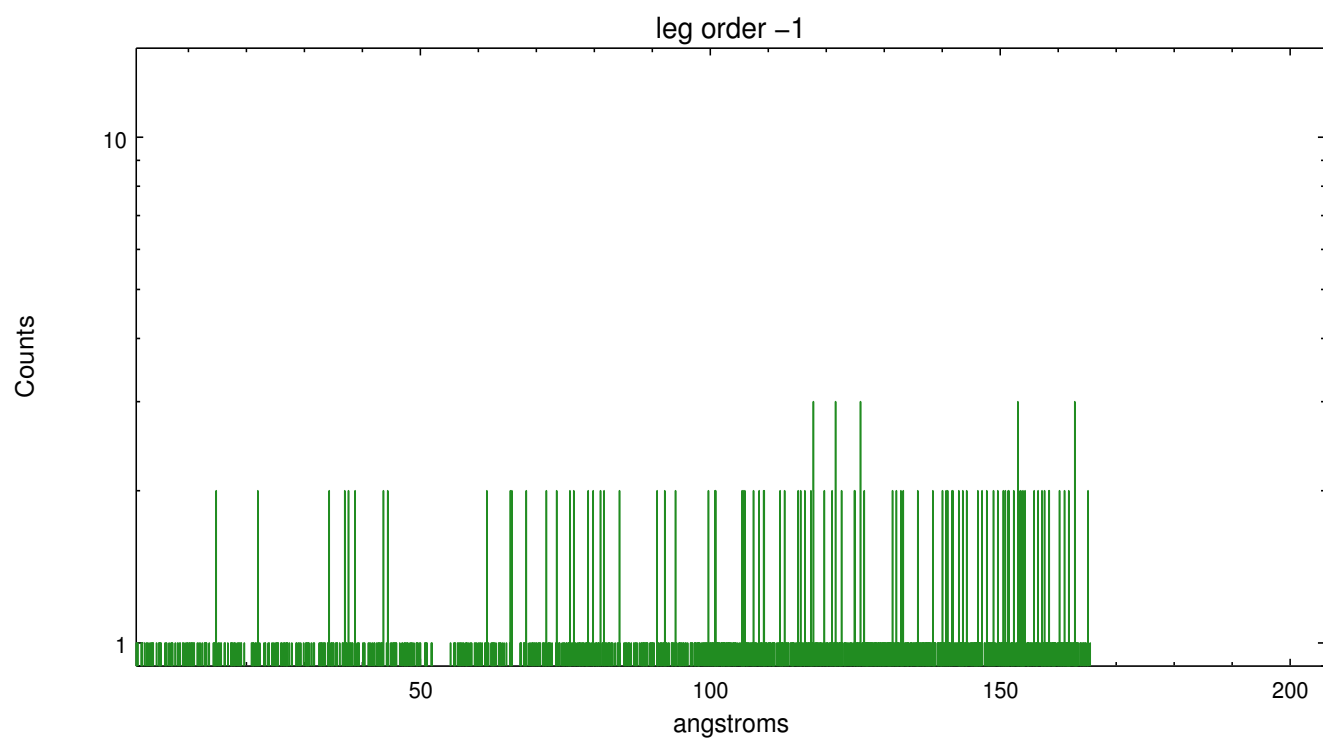


3 Gratings

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	2.442

A.2 Comments

Charge time for this ObsId remains at previous value of 2.442 ks, although with the current processing the charge time would be 2.394 ks.

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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 observation. 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.