

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 6627 - L2 Version 3
Chandra X-Ray Center

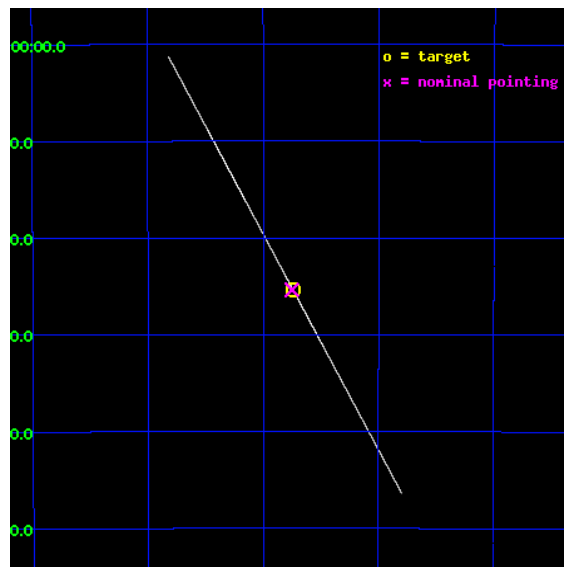
L2 Processing Date : Mar 31 2012

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1 Front

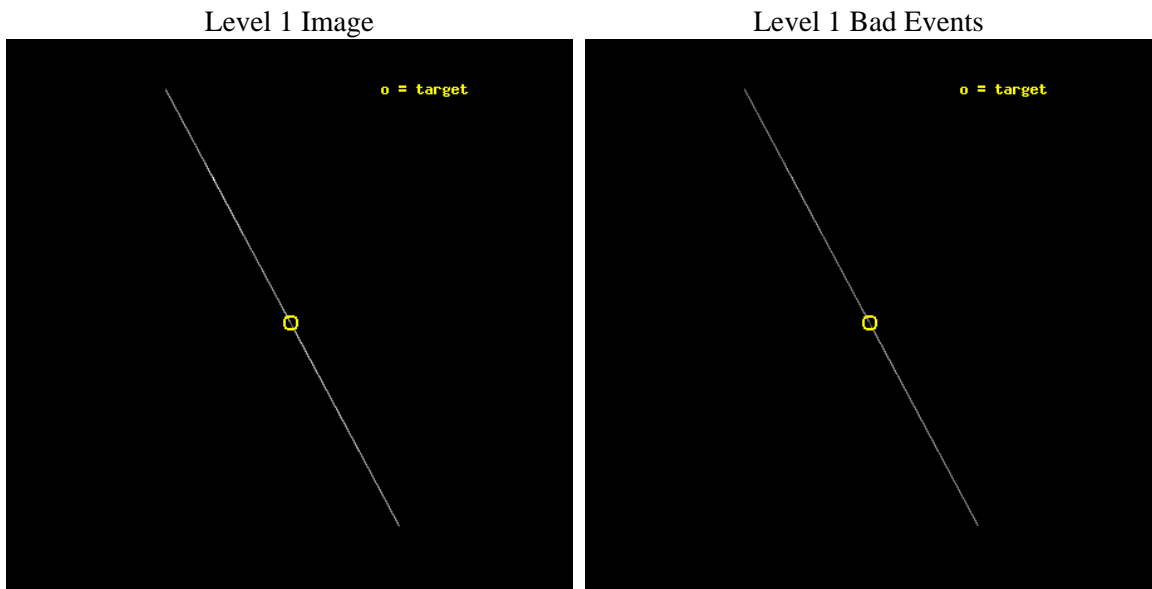
seq_num	400532	Sequence number
obs_id	6627	Observation id
title	CHAZSS: The Chandra HETGS Atoll/Z Spectroscopic Survey	Proposal ti
observer	Dr Jon Miller	Principal investigator
object	GX 349+2	Source name
ra_targ	255.685417	Observer's specified target RA [deg]
dec_targ	-36.423056	Observer's specified target Dec [deg]
ra_nom	255.68797096856	Nominal RA [deg]
dec_nom	-36.422741279059	Nominal Dec [deg]
roll_nom	61.551599975008	Nominal Roll [deg]
revision	3	Processing version of data
ontime	25150.75	Sum of GTIs [s]
livetime	25052.504882812	Livetime [s]
ontime4	25150.75	Sum of GTIs [s]
ontime5	25150.75	Sum of GTIs [s]
ontime6	25150.75	Sum of GTIs [s]
ontime7	25150.75	Sum of GTIs [s]
ontime8	25150.75	Sum of GTIs [s]
ontime9	25150.75	Sum of GTIs [s]
l2events	401300	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	25000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	25150.75	Sum of GTIs [s]
caldbver	4.4.8	 	ontime4	25150.75	Sum of GTIs [s]
date	2012-03-31T12:52:56	Date and time of file creation	ontime5	25150.75	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	25150.75	Sum of GTIs [s]
			ontime7	25150.75	Sum of GTIs [s]
			ontime8	25150.75	Sum of GTIs [s]
			ontime9	25150.75	Sum of GTIs [s]
			l1events	650348	Number of level 1 events

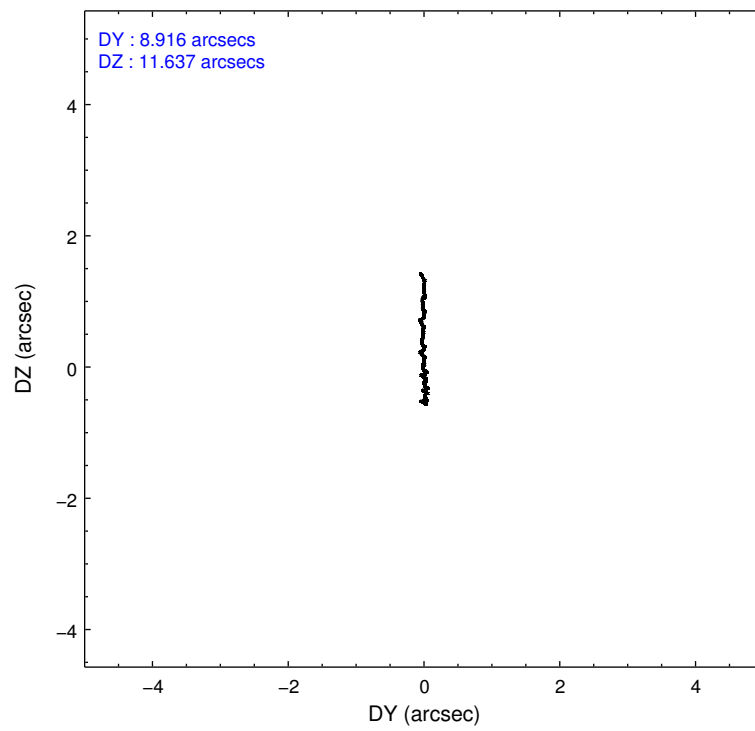
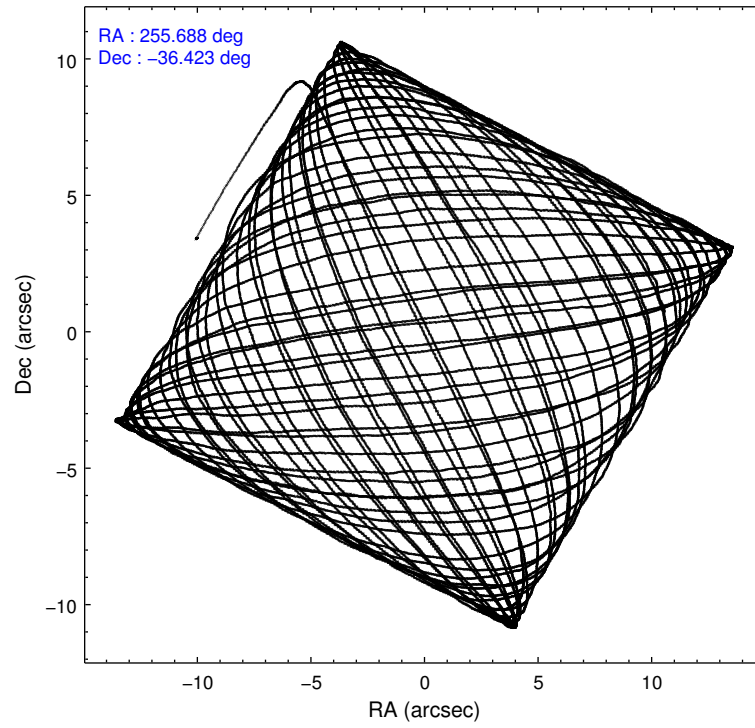
2.1.3 Events

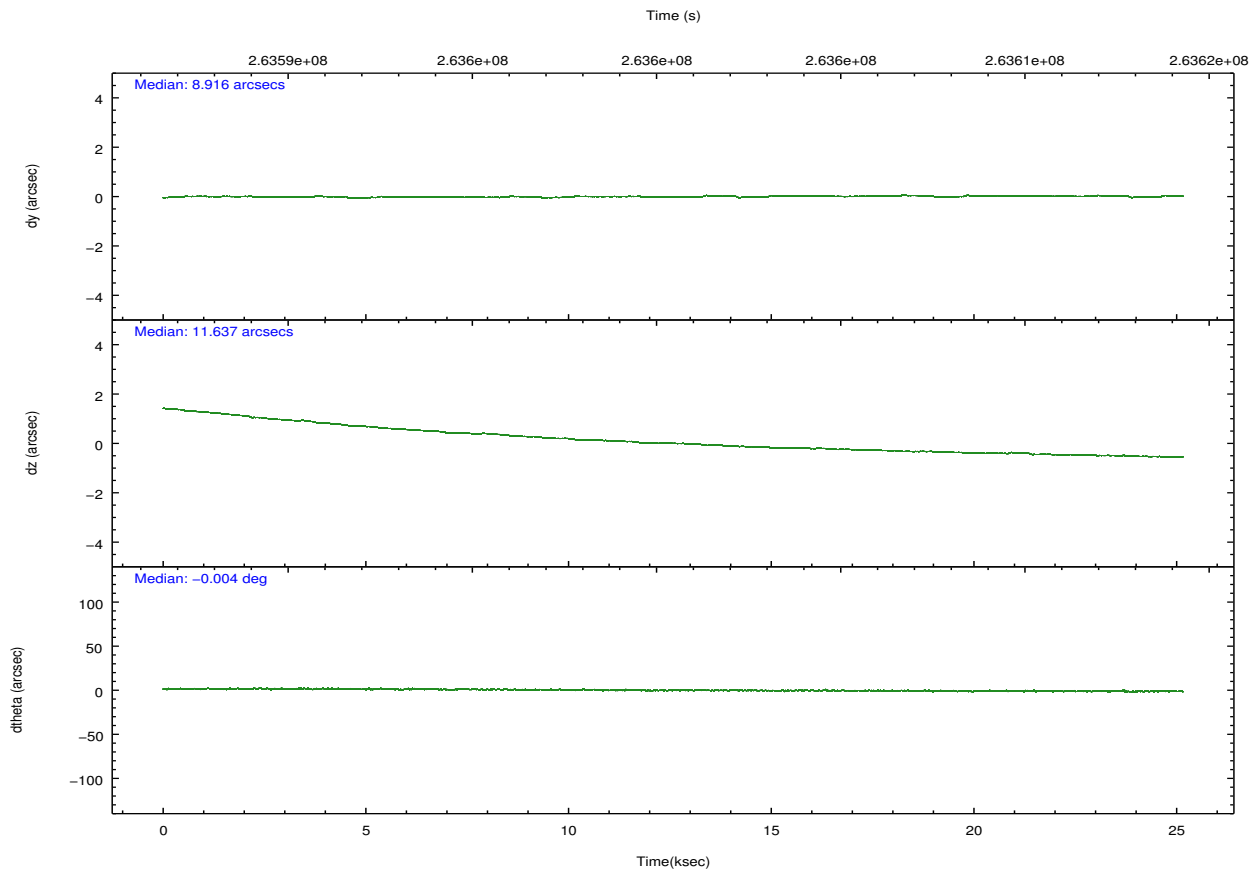
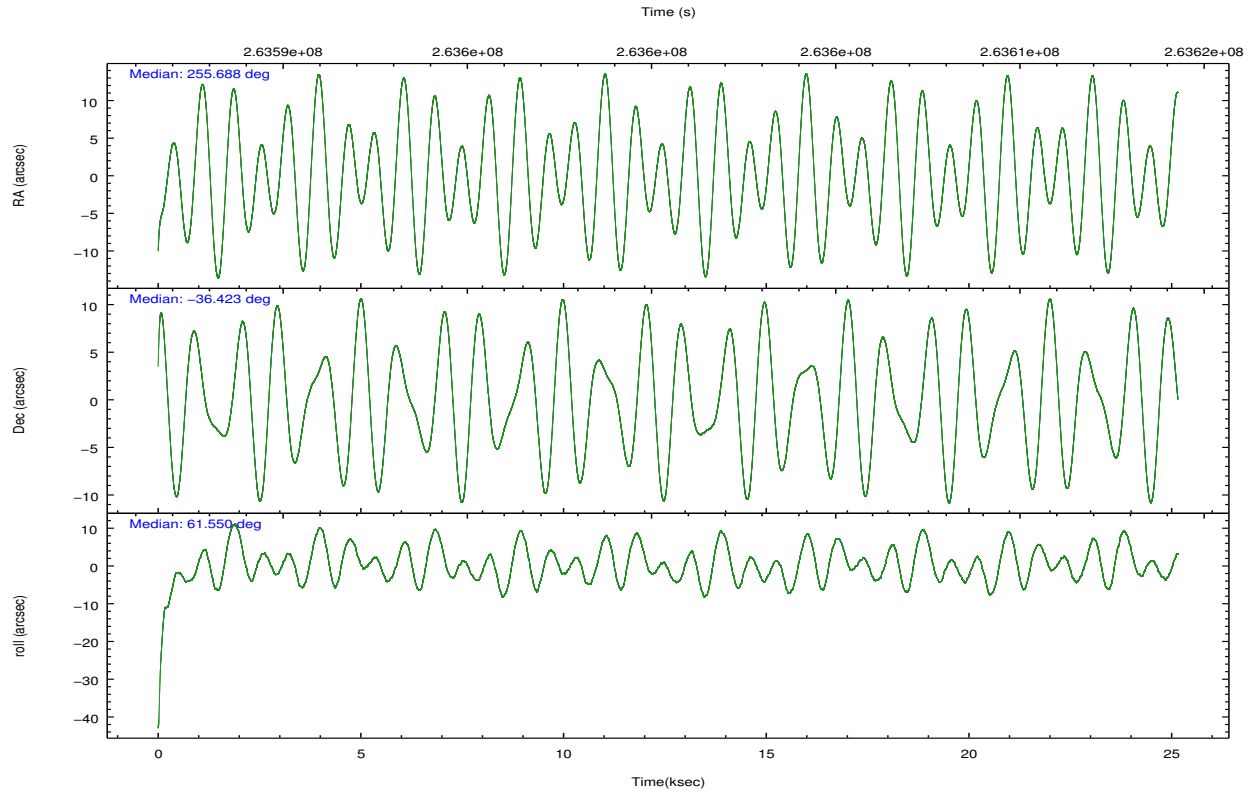
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	52300	247942	52777	137366	106730	53233	grade 0 events	4951	58584	4752	5555	17528	5169
rejected events	10450	27254	11984	25006	18145	12272		9%	23%	9%	4%	16%	9%
rejected %	19%	10%	22%	18%	17%	23%	grade 1 events	159	304	173	244	354	171
								0%	0%	0%	0%	0%	0%
							grade 2 events	17547	61985	16099	31689	29339	15992
								33%	24%	30%	23%	27%	30%
							grade 3 events	5694	3601	5575	4069	10201	4934
								10%	1%	10%	2%	9%	9%
							grade 4 events	5868	3447	5318	3935	9774	5433
								11%	1%	10%	2%	9%	10%
							grade 5 events	8506	18375	10079	19965	13915	10361
								16%	7%	19%	14%	13%	19%
							grade 6 events	9575	101646	10781	71909	25619	11173
								18%	40%	20%	52%	24%	20%
							grade 7 events	0	0	0	0	0	0
								0%	0%	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	NONE	UPDATED
Data mode	CC33_GRADED	CC33_GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	255.689347	255.6879709685616	Subarray requested	NONE	NONE
[deg] Pointing Dec	-36.449970	-36.4227412790589	Alternating exposures requested	N	N
[deg] Pointing Roll	61.395802	61.55159997500837	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-182.632523	-182.6398635053184			
[mm] SIM translation stage offset	-7.5	-7.49265907768941			
[s] Observation start time (MET)	263588027.184000	263586786.77071			
Observation start date	2006-05-09T18:52:42	2006-05-09T18:33:06			
[s] Observation end time (MET)	263613027.184000	263613648.94697			
Observation end date	2006-05-10T01:49:22	2006-05-10T02:00:48			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



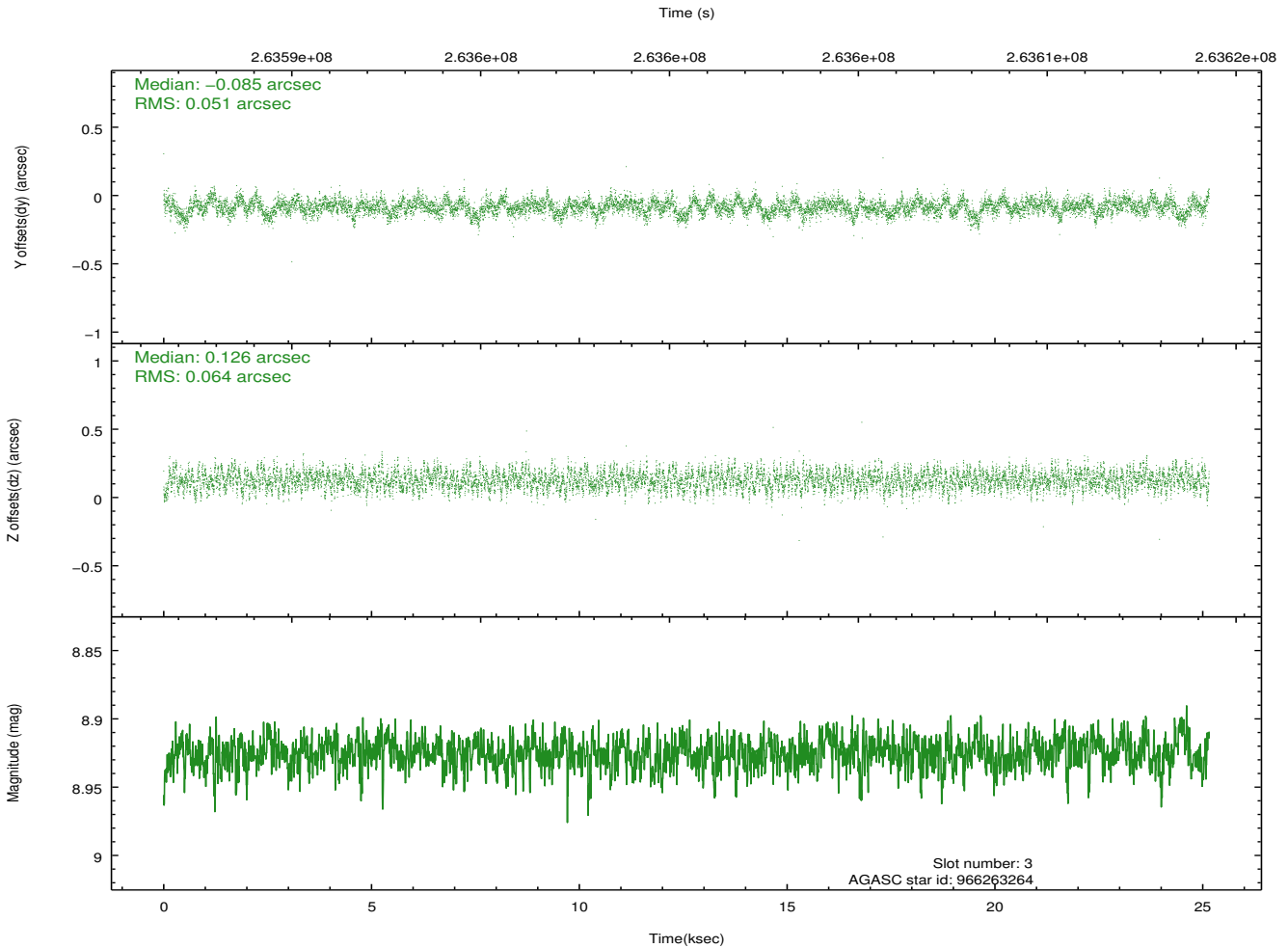
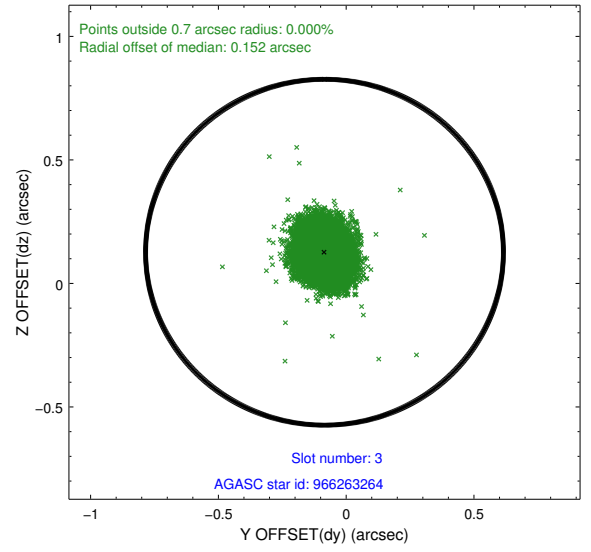
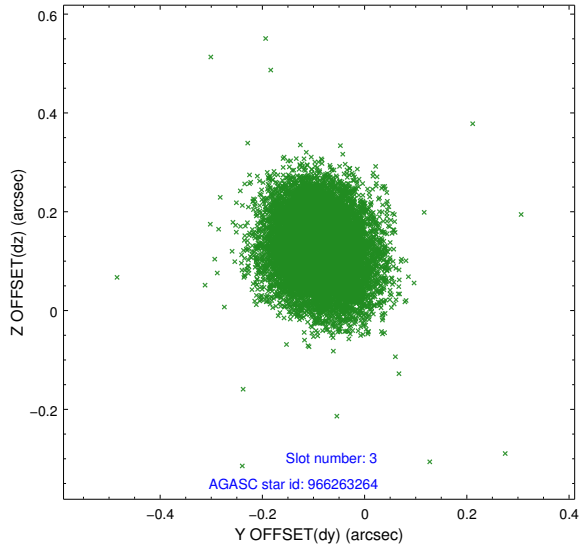


Slot Statistics

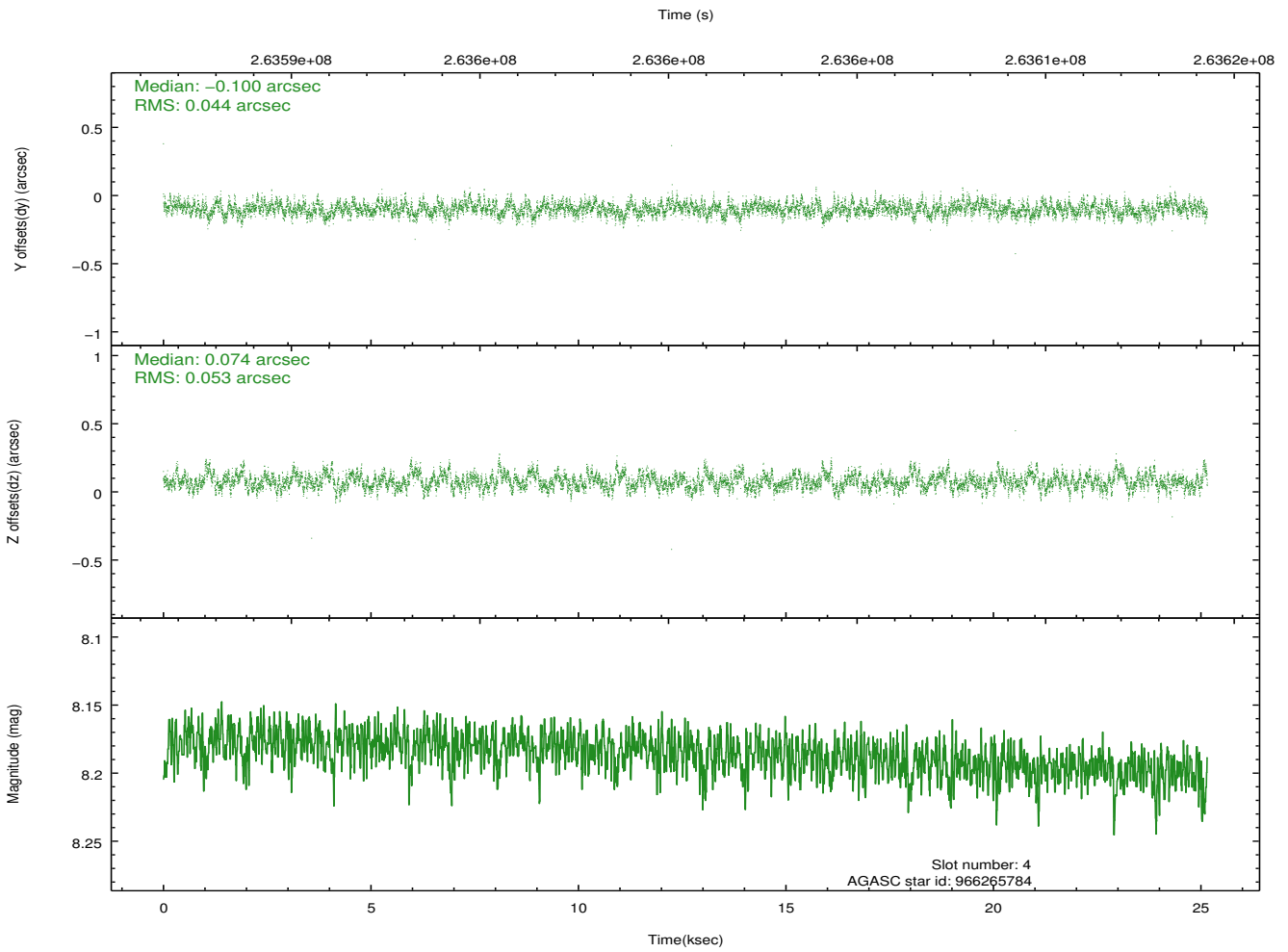
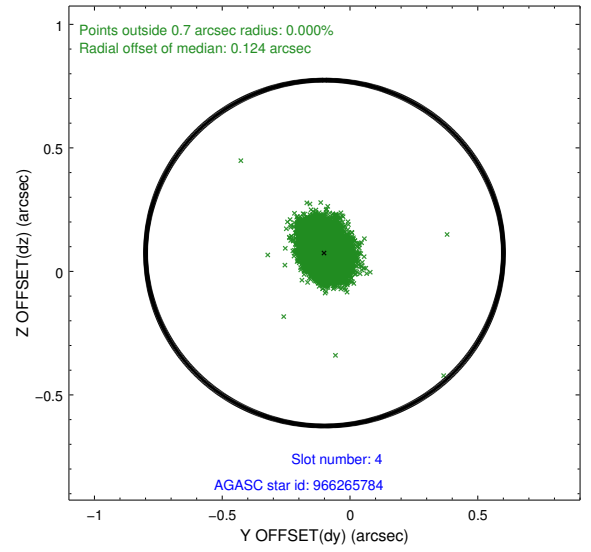
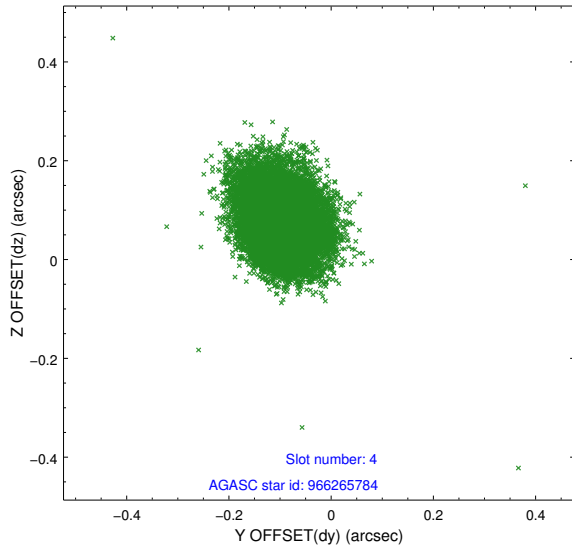
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	6136	-0.082	-0.120	0.026	0.038	0.000000	0.000000	-761.28	-1887.56
1	FID	ACIS-S-4	7.18	6135	0.130	0.072	0.010	0.016	0.000000	0.000000	2152.17	20.93
2	FID	ACIS-S-5	7.23	6134	-0.081	0.056	0.023	0.033	0.000000	0.000000	-1813.95	14.76
3	GUIDE	966263264	8.93	12258	-0.085	0.126	0.087	0.140	256.441139	-36.546904	727.60	-2079.85
4	GUIDE	966265784	8.19	12269	-0.100	0.074	0.072	0.119	256.470188	-36.588190	636.27	-2224.12
5	GUIDE	966270288	9.30	12259	-0.069	-0.021	0.104	0.165	256.249148	-35.958541	2330.58	-587.43
6	GUIDE	966262888	8.99	12270	0.149	-0.188	0.079	0.128	255.306720	-36.709712	-1351.09	520.70
7	GUIDE	966268912	8.83	12267	0.105	0.005	0.077	0.121	255.909665	-37.161225	-1945.49	-1781.09

2.4 Star Slots

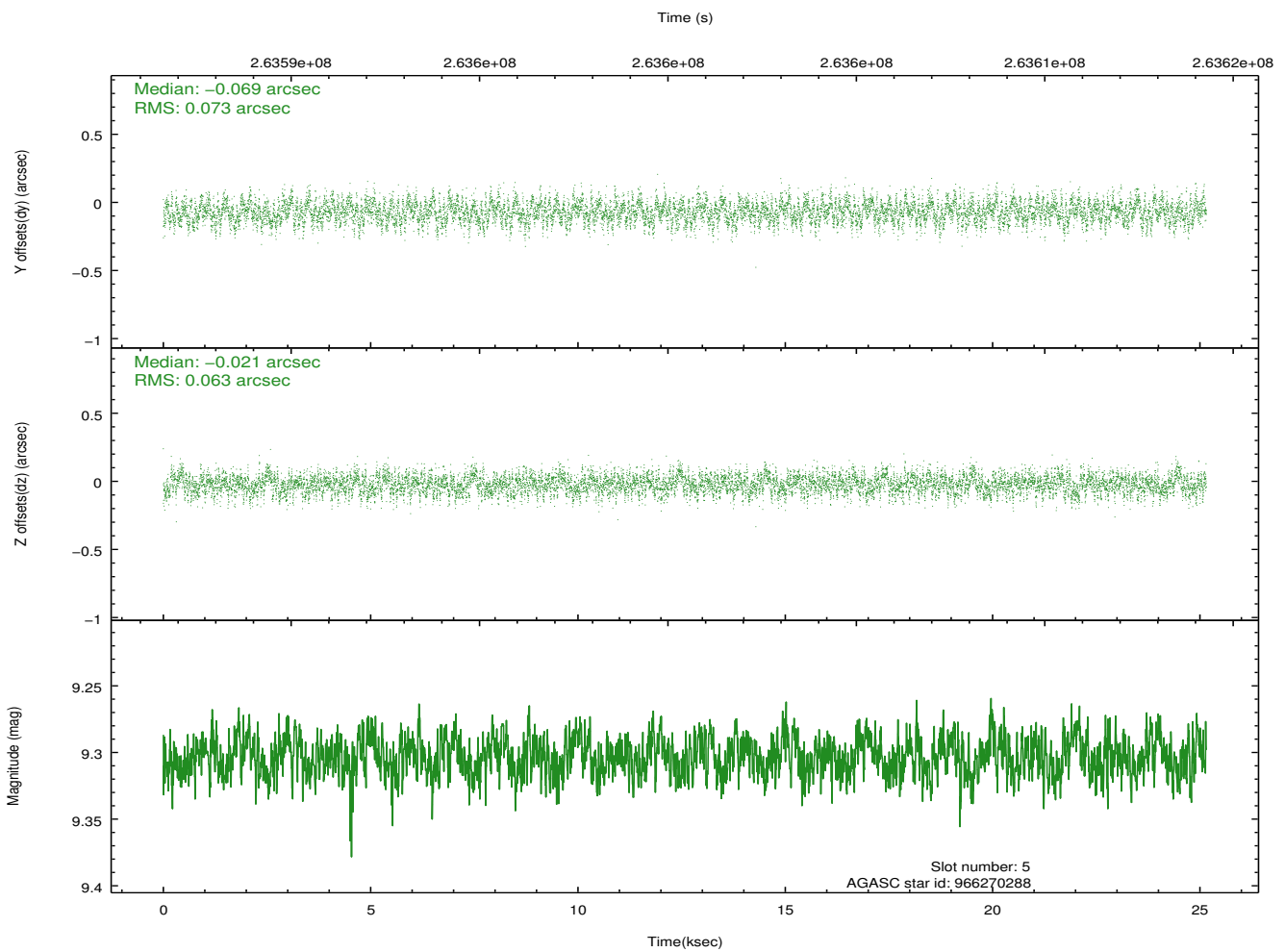
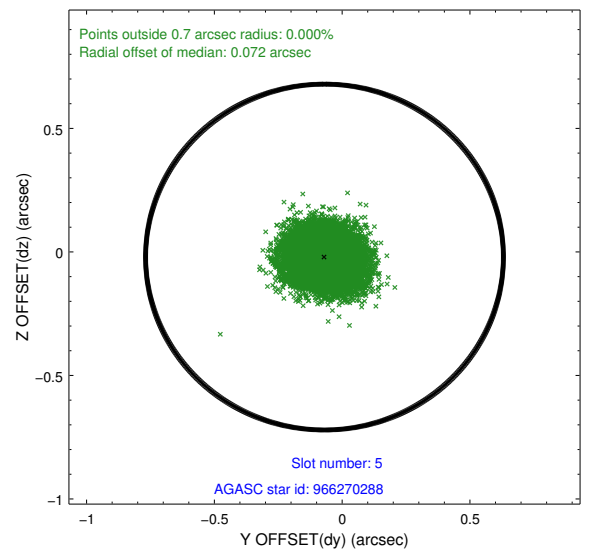
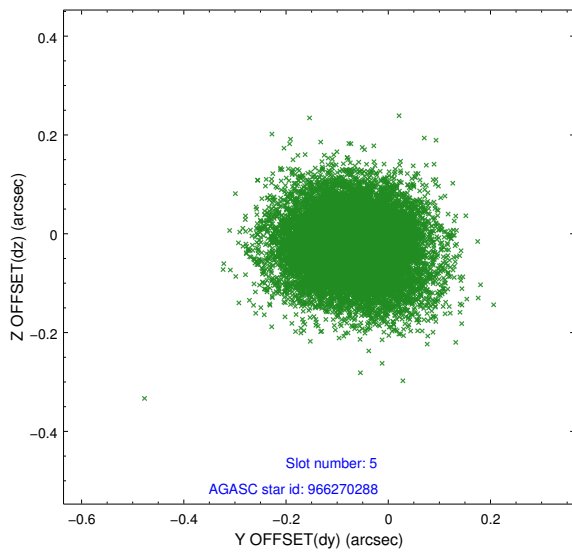
2.4.1 Slot 3



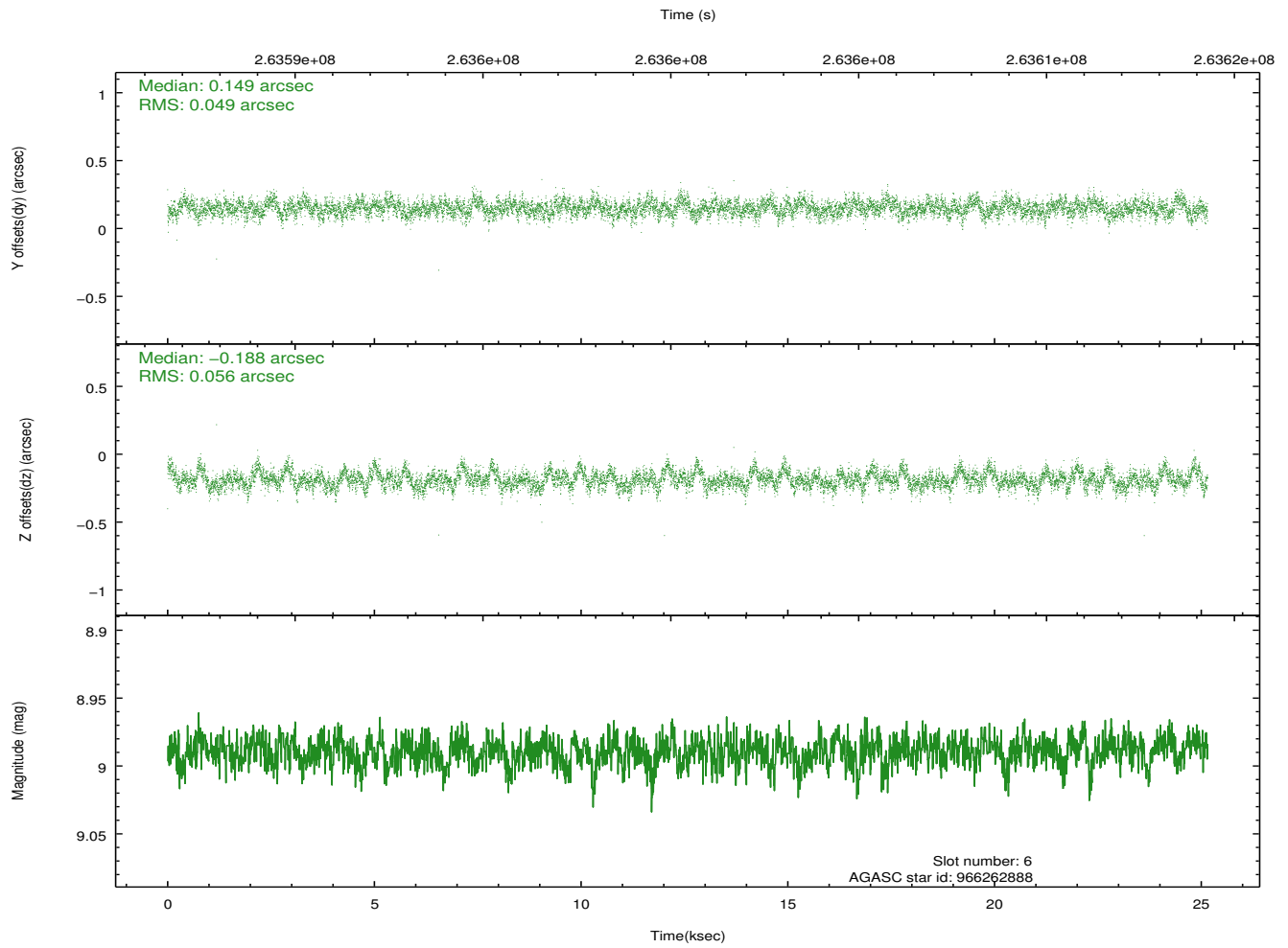
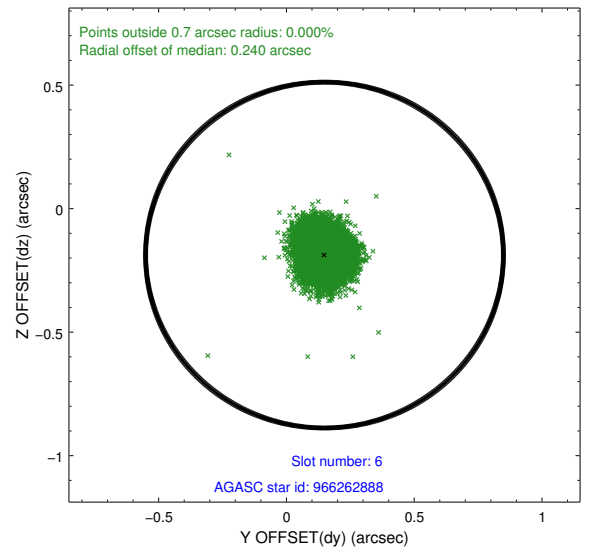
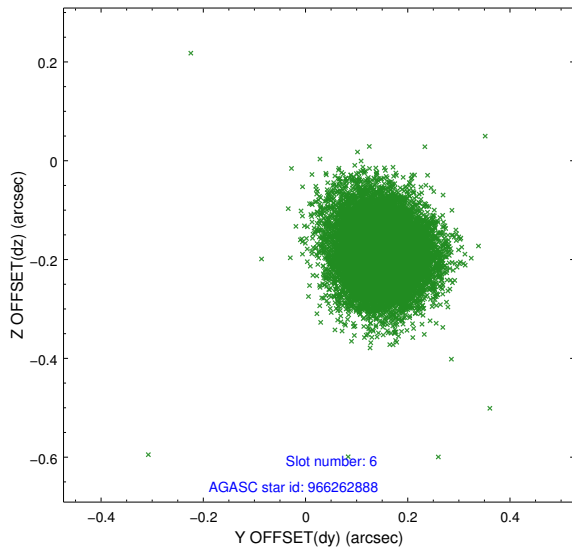
2.4.2 Slot 4



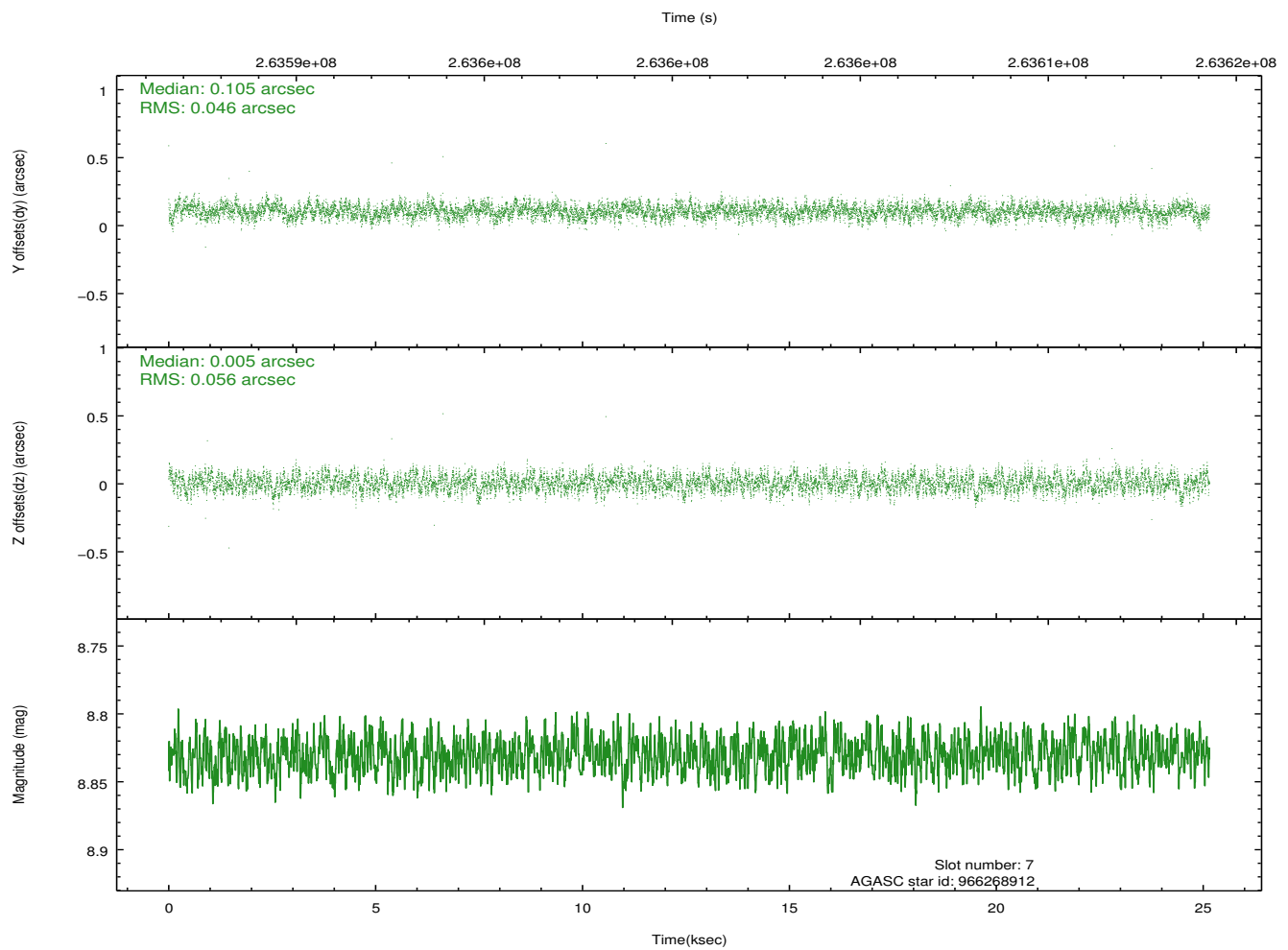
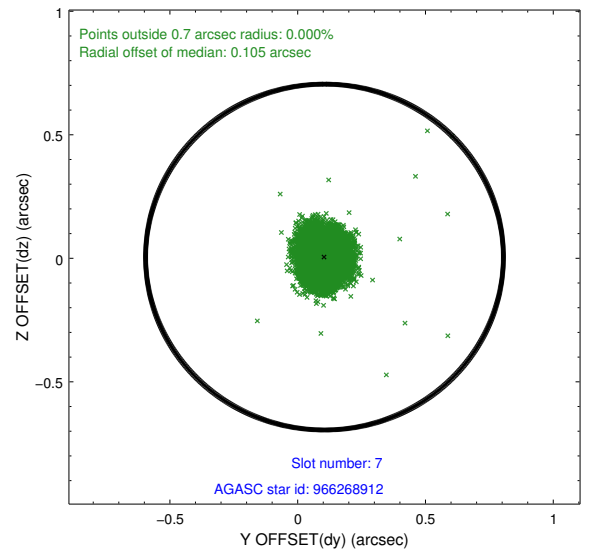
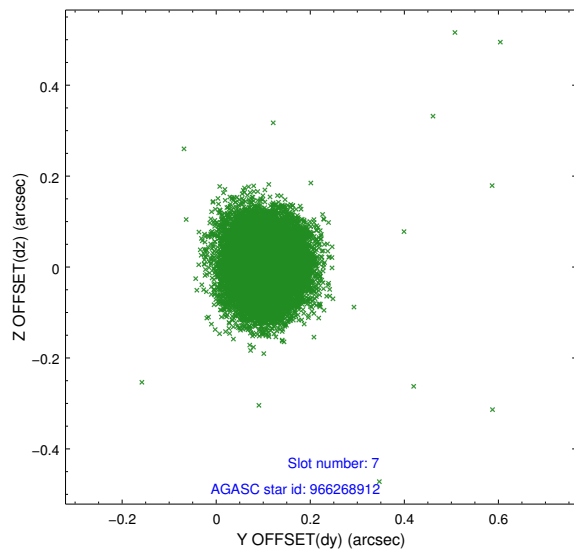
2.4.3 Slot 5



2.4.4 Slot 6

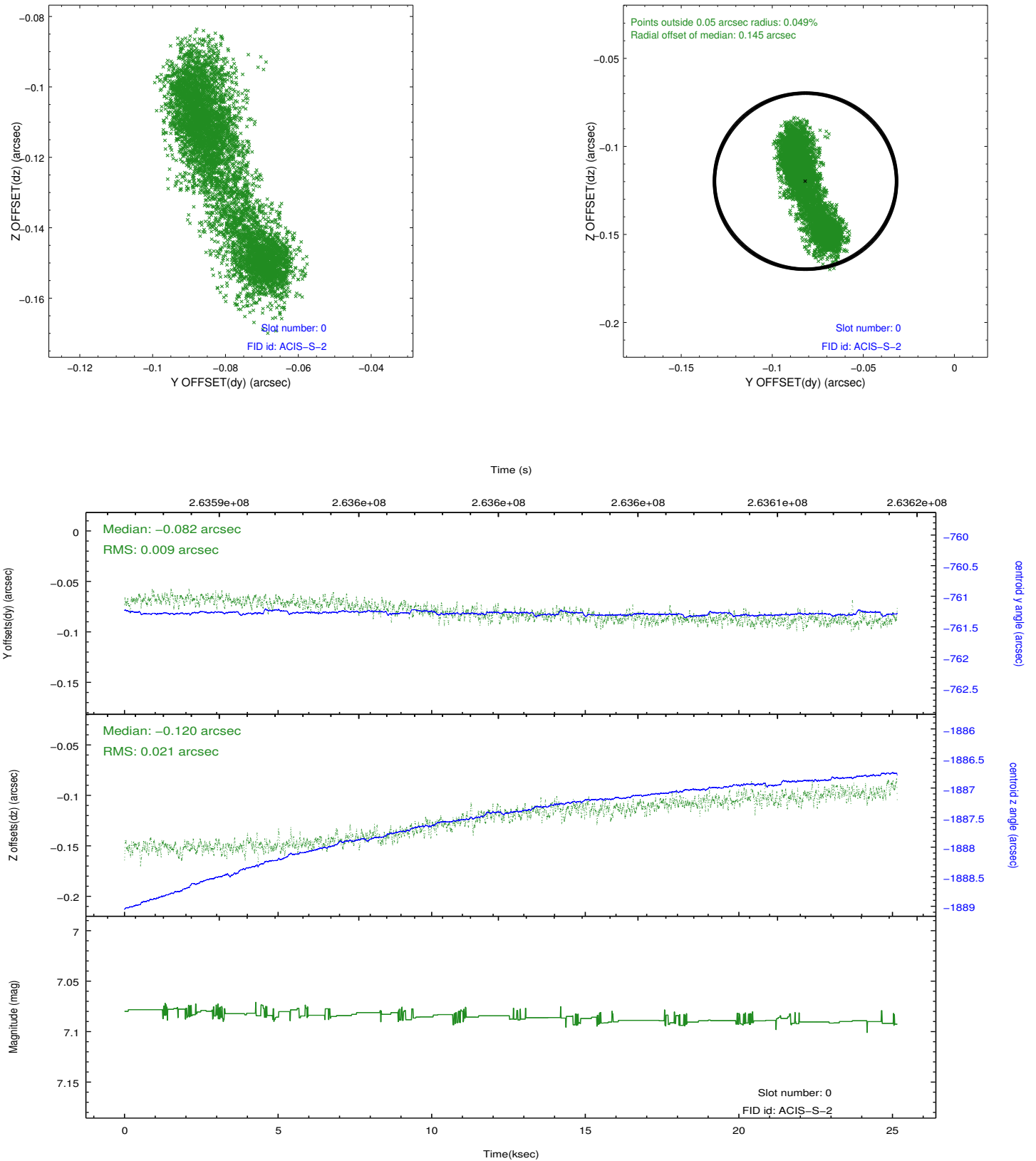


2.4.5 Slot 7

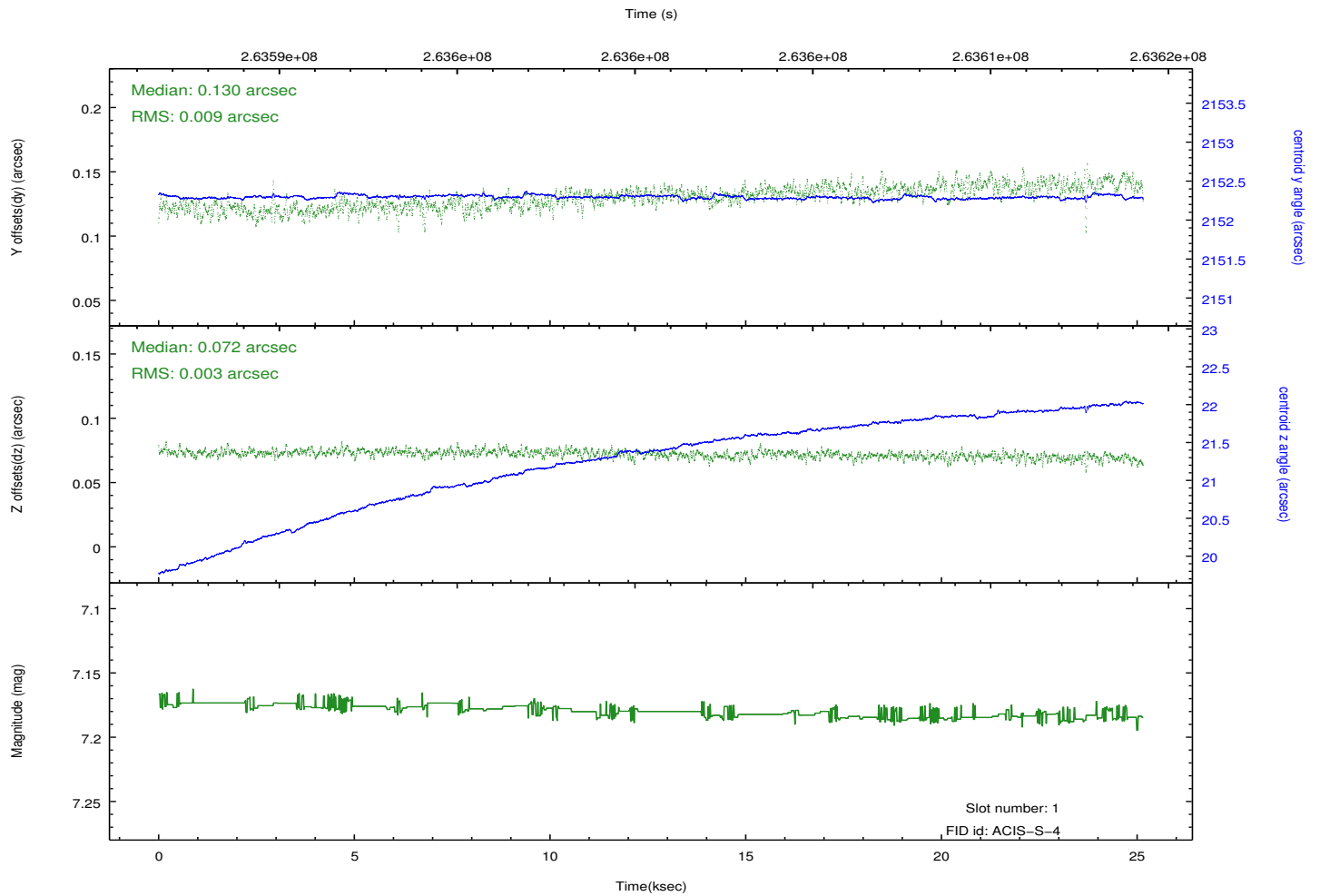
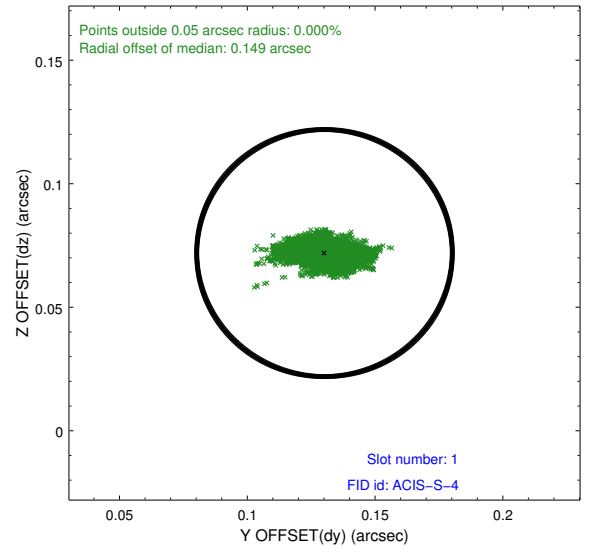
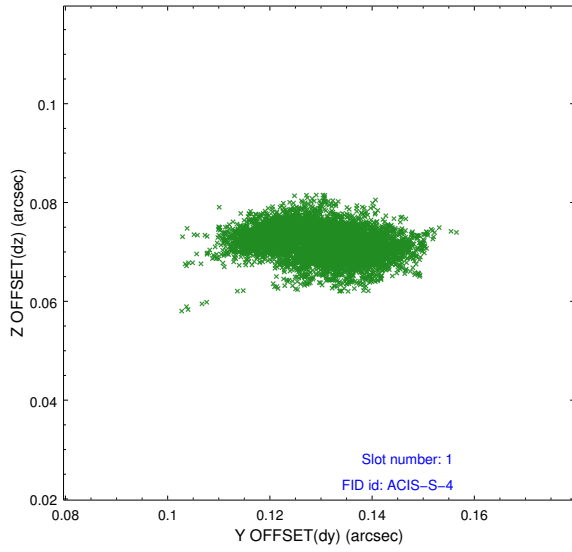


2.5 FID Slots

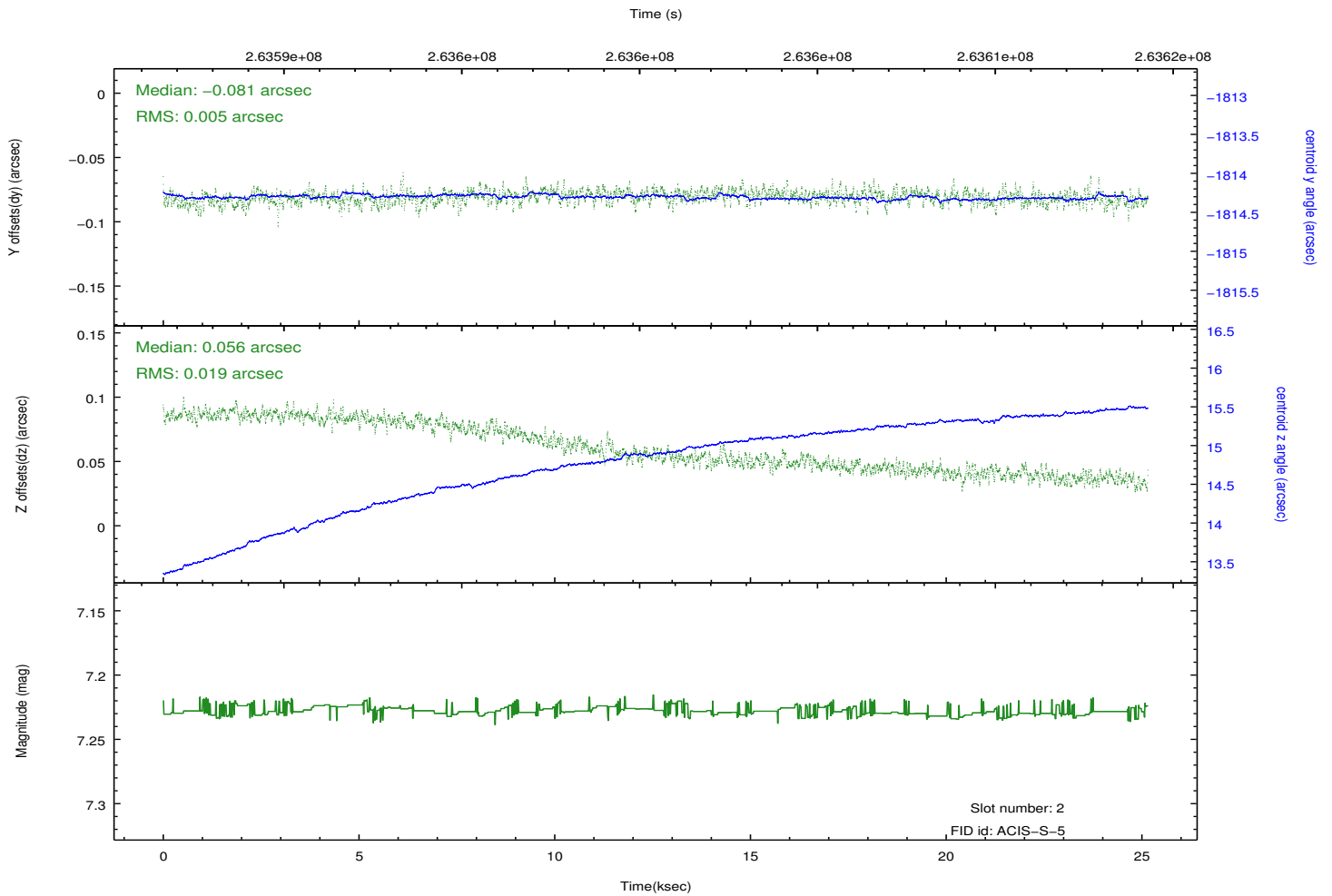
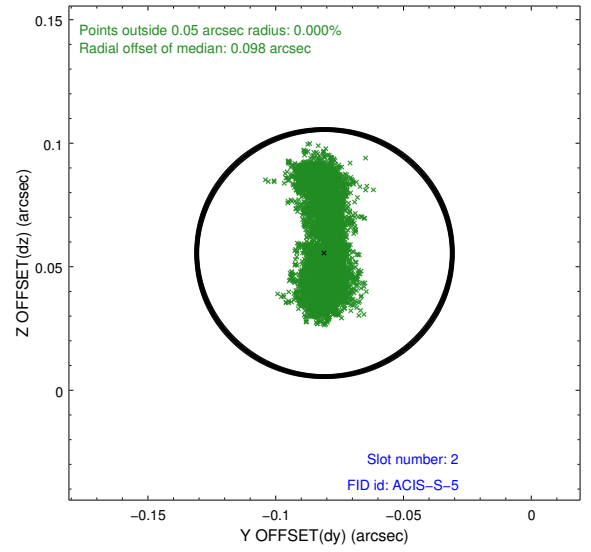
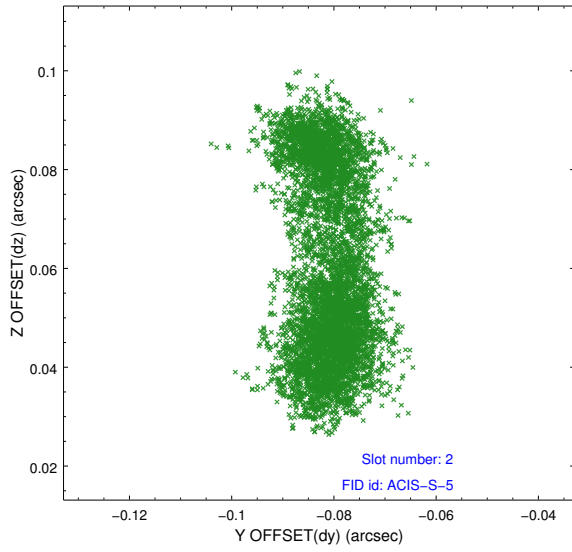
2.5.1 Slot 0



2.5.2 Slot 1

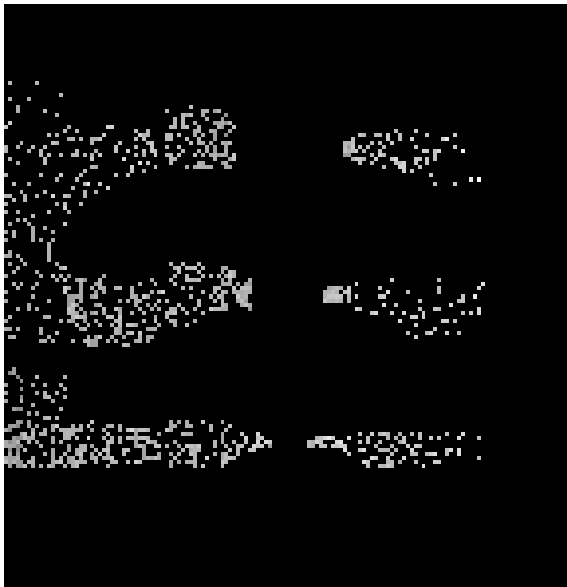


2.5.3 Slot 2

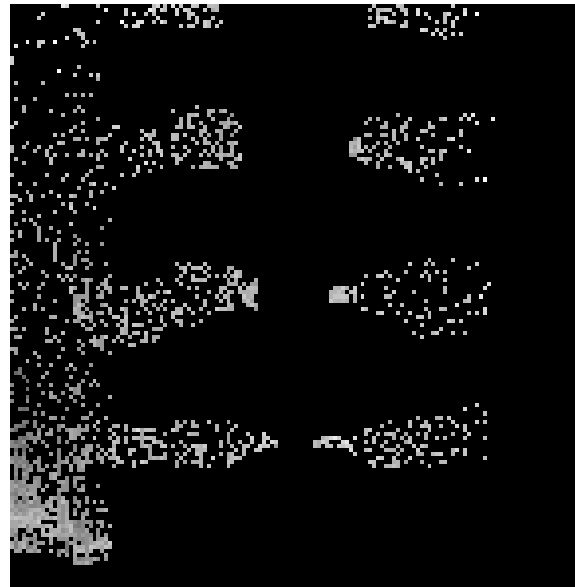


3 Gratings

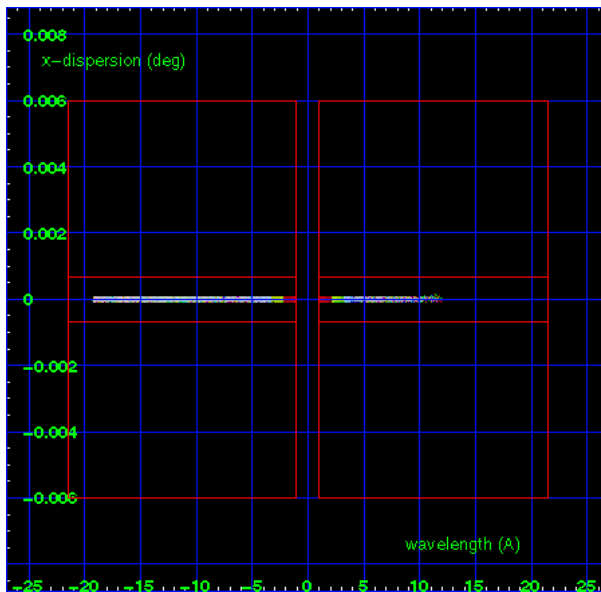
3.1 HEG Arm



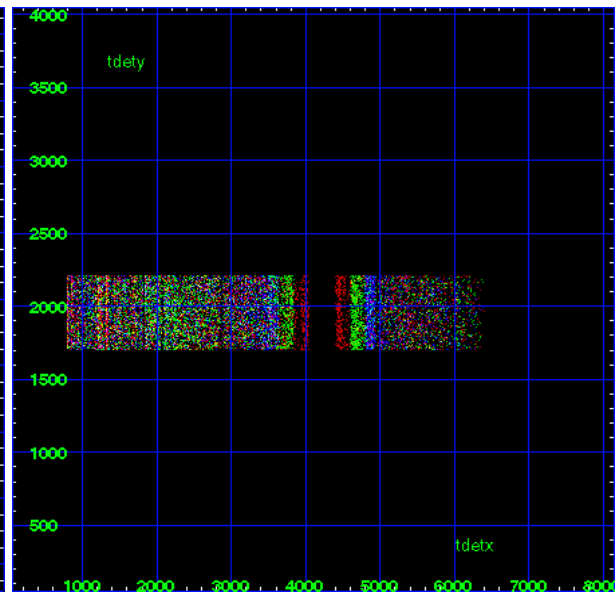
HEG Order Sort 123



HEG Order Sort ALL

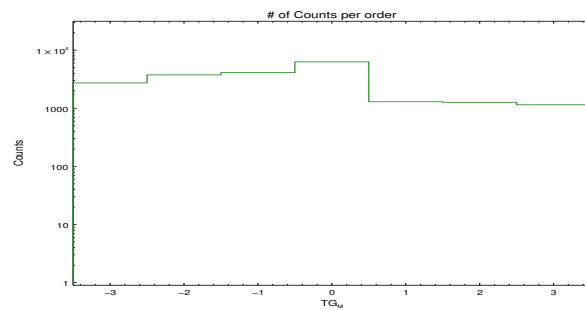


Spot Image HEG

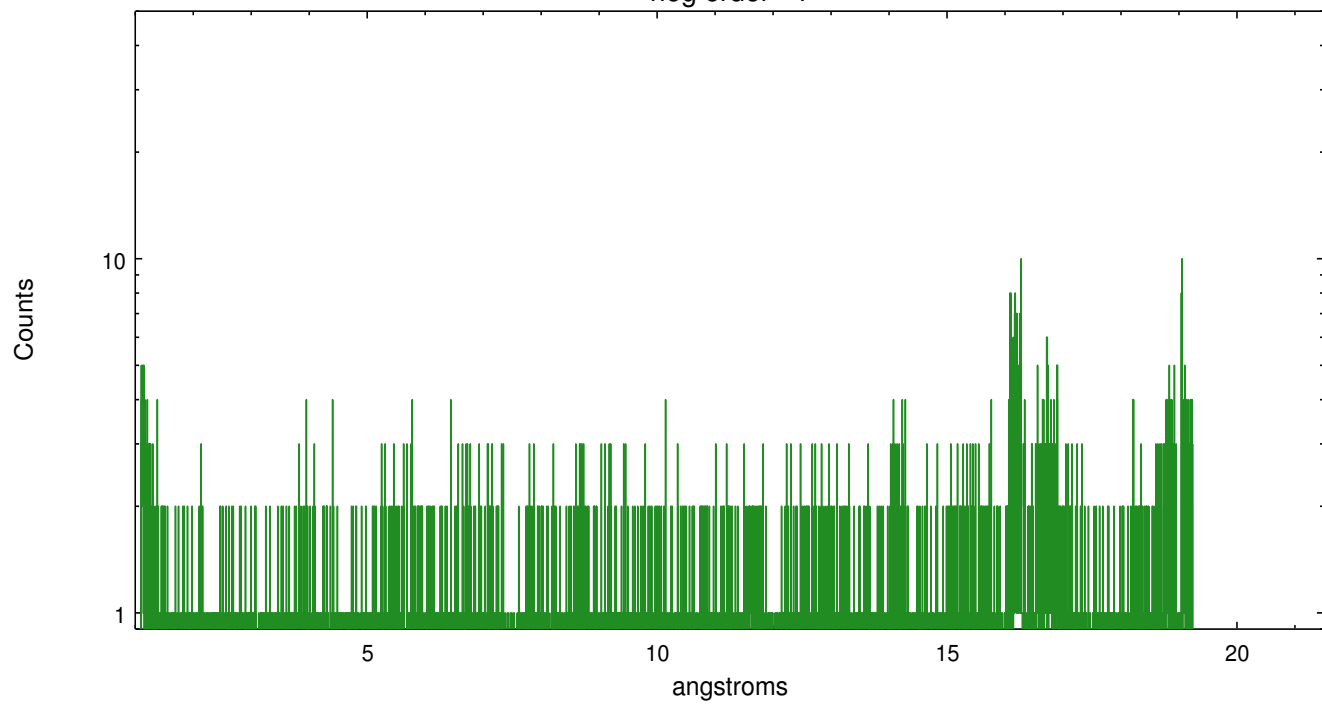


Full Detector HEG

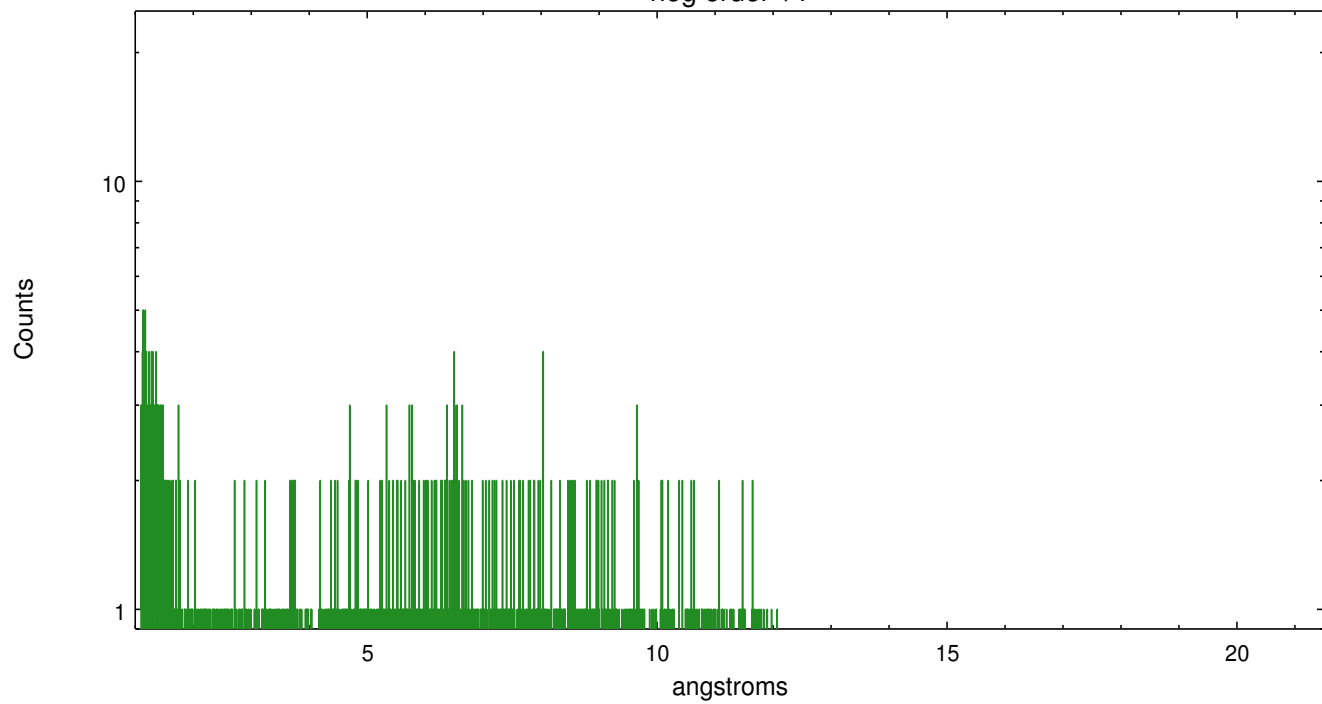
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	2729	3756	4109	6298	1296	1269	1149



heg order -1



heg order +1



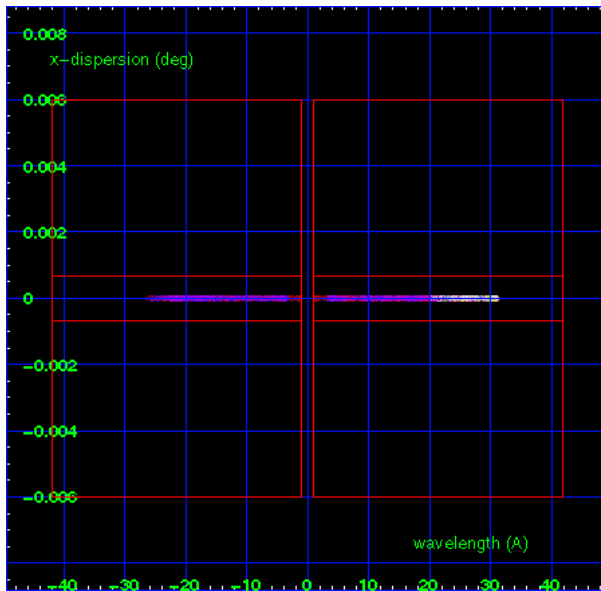
3.2 MEG Arm



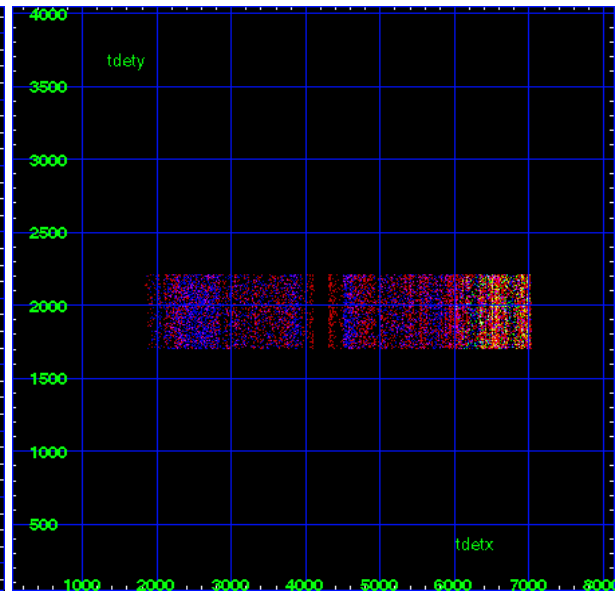
MEG Order Sort 123



MEG Order Sort ALL

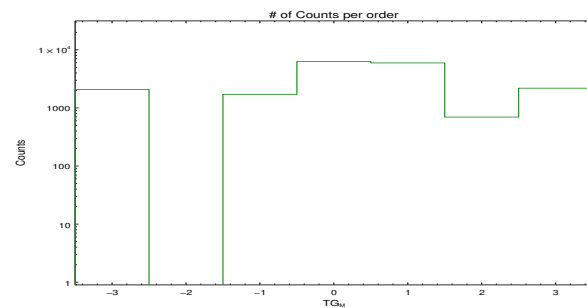


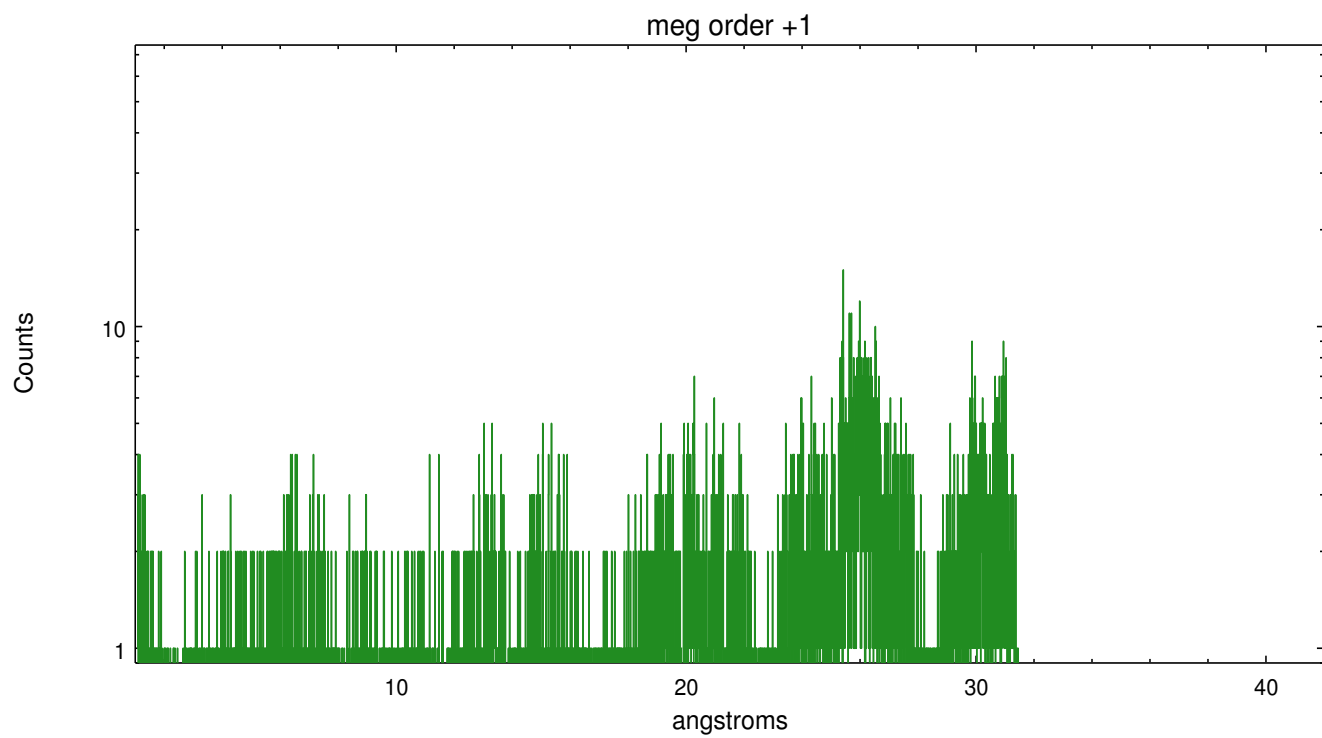
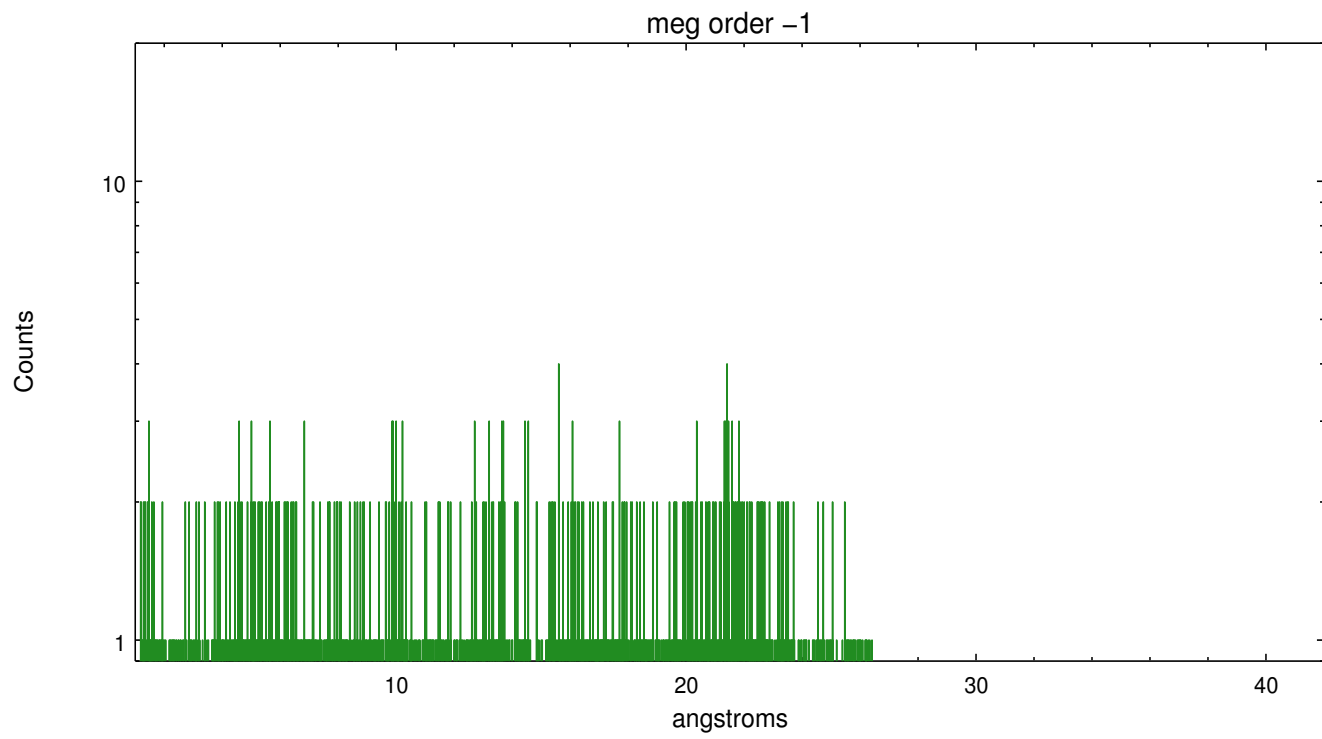
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	2079	0	1713	6298	5950	696	2186





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.15075

A.2 Comments

There are no source counts. Inspection of previous observations indicates that the requested RA of 17:02:44.5 is 3 min (45 arcmin) different from previous observations: obsid 3354, and 715 had a target RA of 17:05:44 and clearly showed a strong source. This obsid apparently had the wrong requested RA. Because there is no zeroth order source, the software did not find a position for the zeroth order and instead selected a point along the spectral order to use for the zeroth order position. Since there is no source associated with this spectrum, no attempt was made to align the zeroth order position.