

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4551 - L2 Version 4
Chandra X-Ray Center

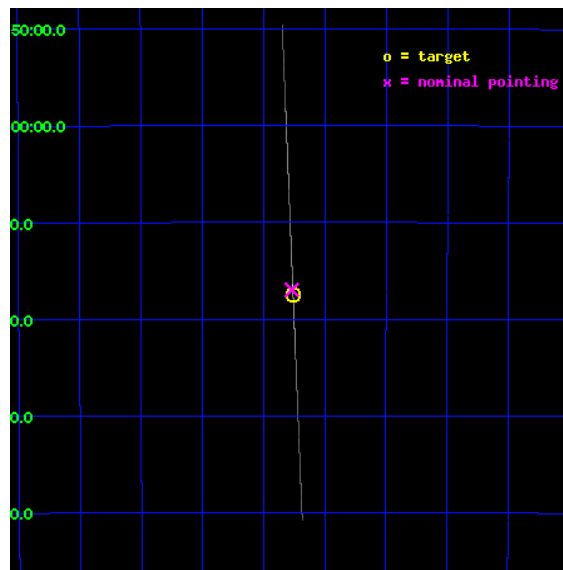
L2 Processing Date : Nov 14 2012

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1 Front

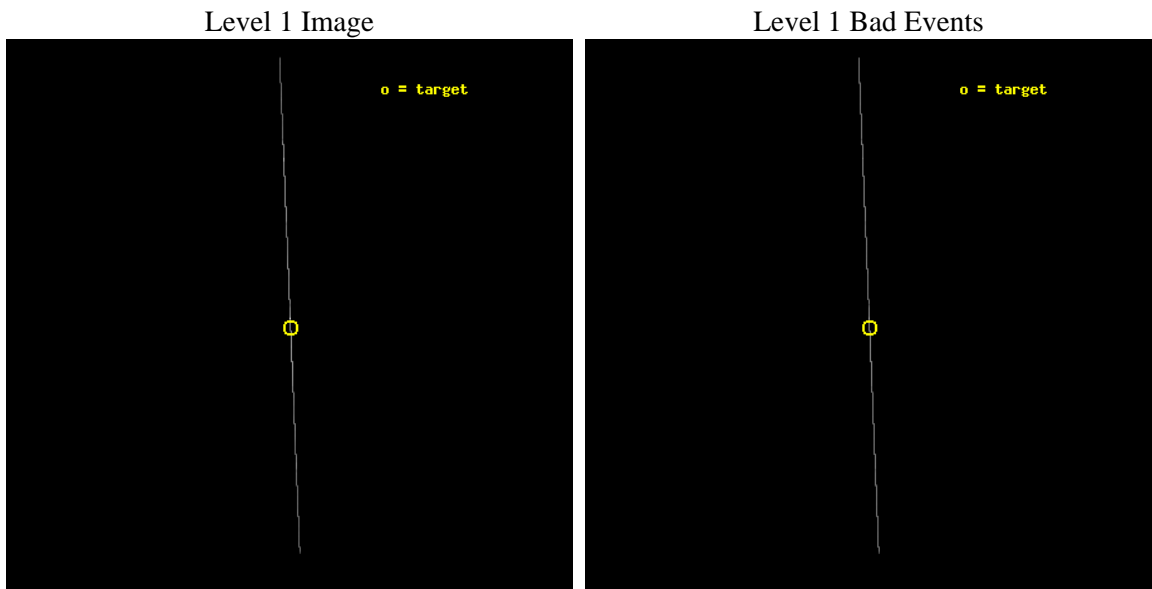
seq_num	400334	Sequence number
obs_id	4551	Observation id
title	High inclination X-ray binaries	Proposal title
observer	Prof Mariano Mendez	Principal investigator
object	GRS 1747-312	Source name
ra_targ	267.689583	Observer's specified target RA [deg]
dec_targ	-31.292222	Observer's specified target Dec [deg]
ra_nom	267.69203107387	Nominal RA [deg]
dec_nom	-31.282779397856	Nominal Dec [deg]
roll_nom	87.617724568936	Nominal Roll [deg]
revision	4	Processing version of data
ontime	45208.25	Sum of GTIs [s]
livetime	45031.655273438	Livetime [s]
ontime4	45208.25	Sum of GTIs [s]
ontime5	45208.25	Sum of GTIs [s]
ontime6	45208.25	Sum of GTIs [s]
ontime7	45208.25	Sum of GTIs [s]
ontime8	45208.25	Sum of GTIs [s]
ontime9	45208.25	Sum of GTIs [s]
l2events	1060130	Number of level 2 events



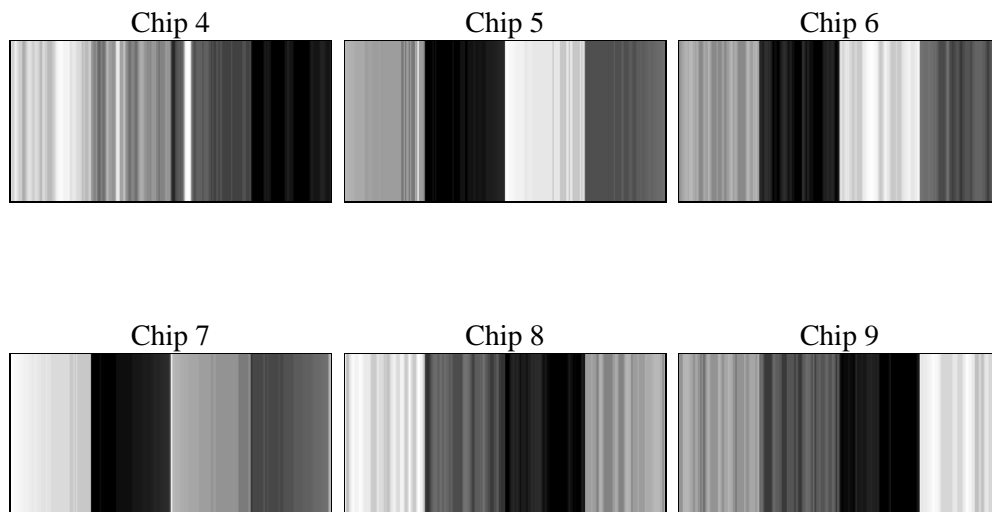
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	45208.25	Sum of GTIs [s]
caldbver	4.5.2	 	ontime4	45208.25	Sum of GTIs [s]
date	2012-11-14T02:37:34	Date and time of file creation	ontime5	45208.25	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	45208.25	Sum of GTIs [s]
			ontime7	45208.25	Sum of GTIs [s]
			ontime8	45208.25	Sum of GTIs [s]
			ontime9	45208.25	Sum of GTIs [s]
			l1events	1423521	Number of level 1 events

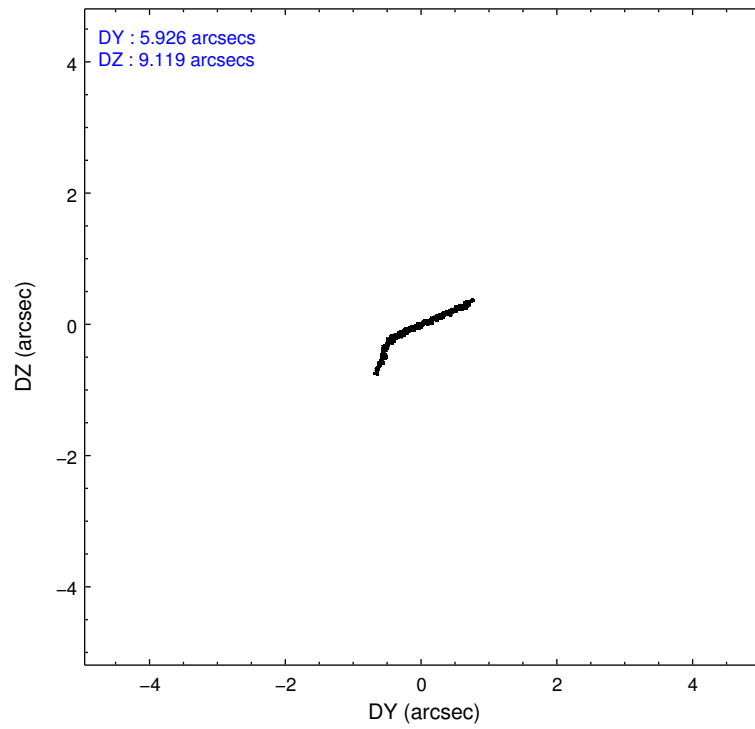
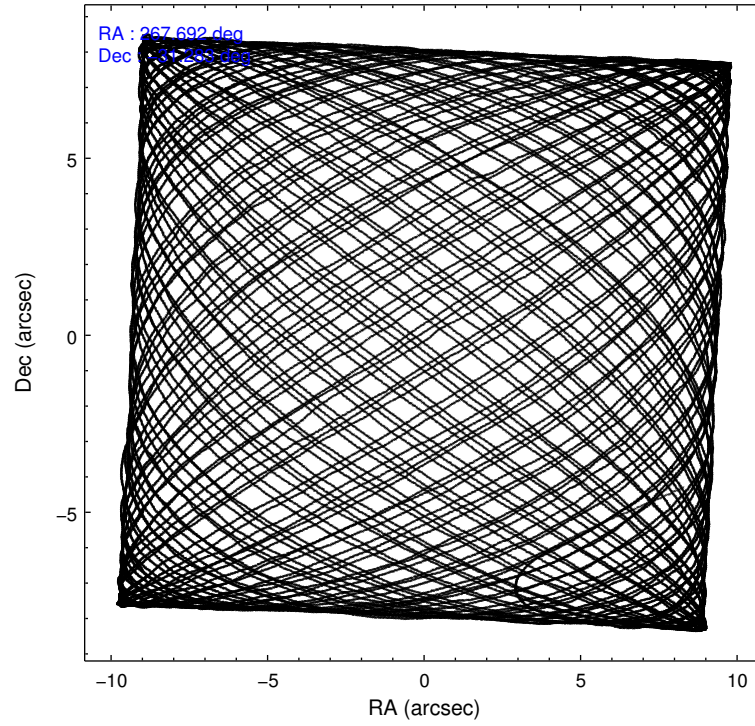
2.1.4 Events

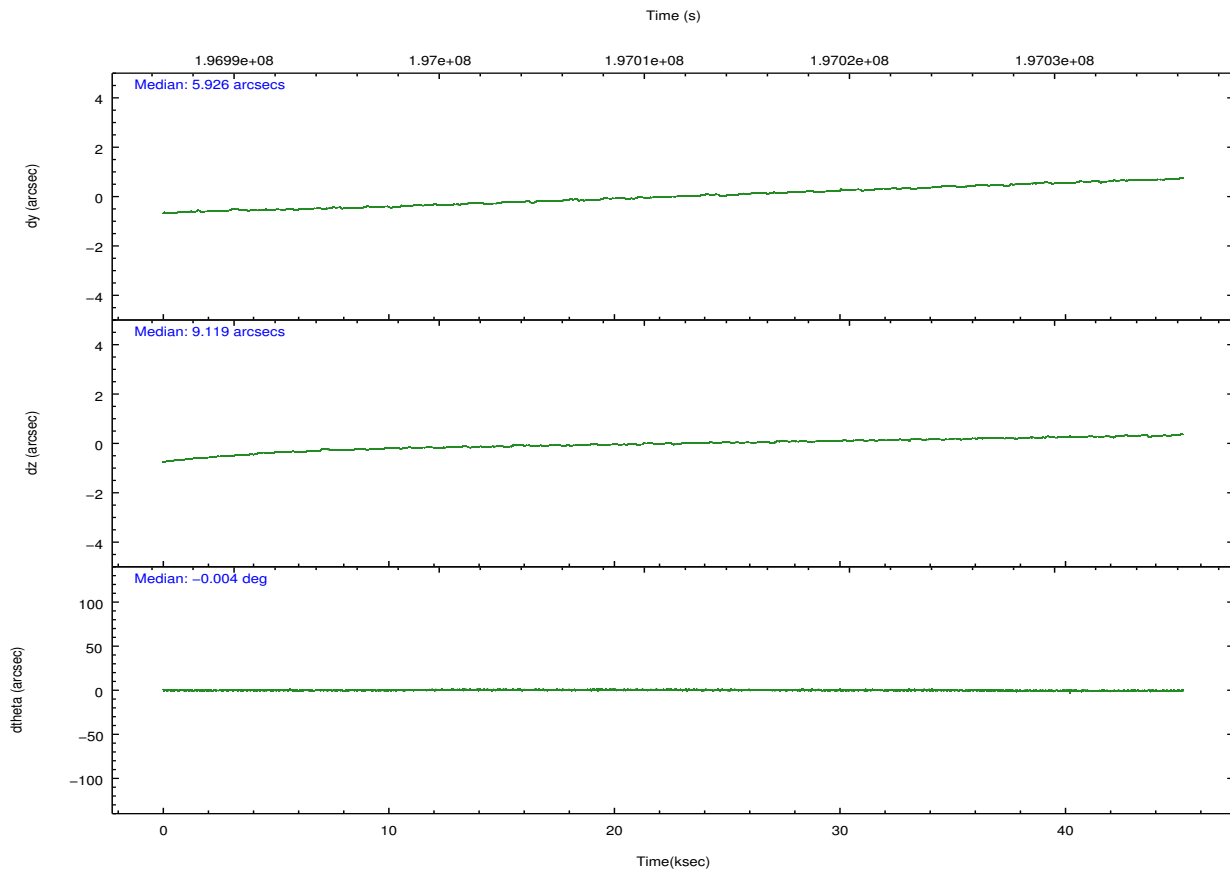
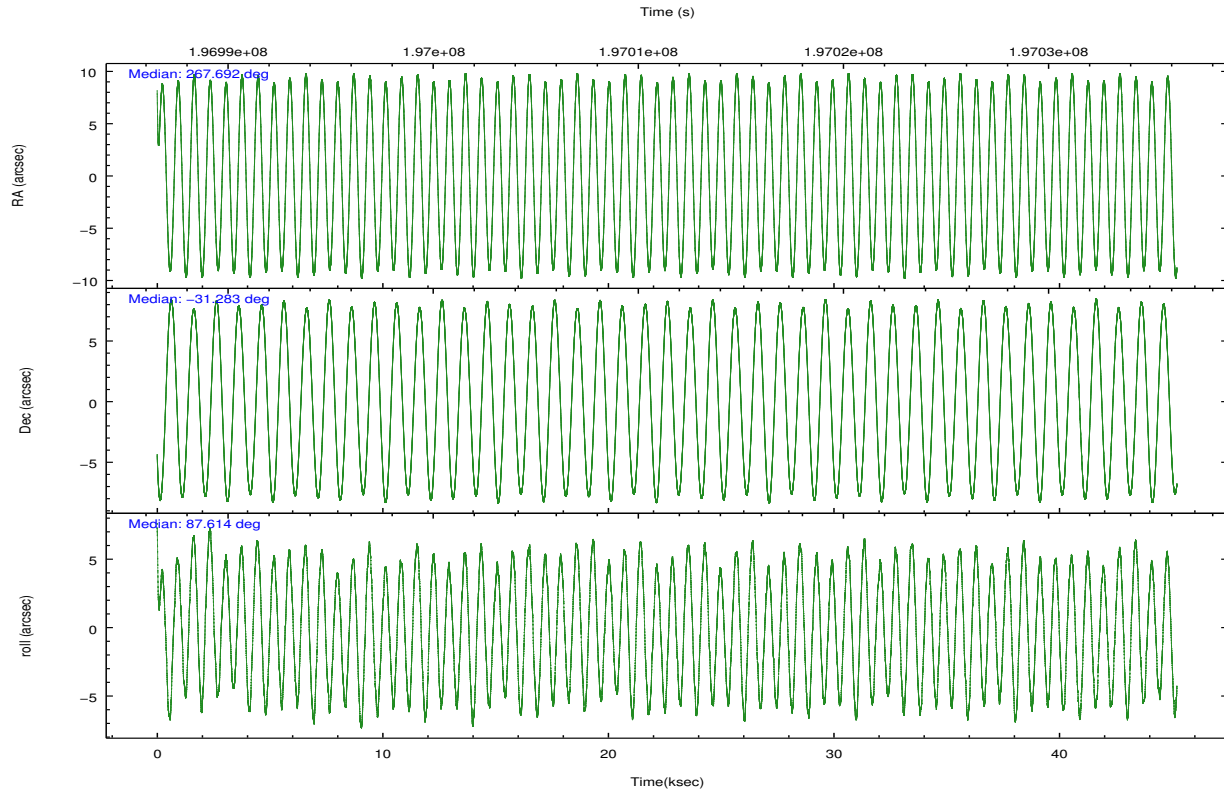
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	80162	326189	184372	586376	163148	83274	grade 0 events	8956	63770	21453	87823	35414	9547
rejected events	21210	42500	24828	52913	29425	23766		11%	19%	11%	14%	21%	11%
rejected %	26%	13%	13%	9%	18%	28%	grade 1 events	255	381	352	922	478	224
								0%	0%	0%	0%	0%	0%
							grade 2 events	30192	87243	106693	139645	49732	29419
								37%	26%	57%	23%	30%	35%
							grade 3 events	7494	6751	7662	50473	13201	6611
								9%	2%	4%	8%	8%	7%
							grade 4 events	7899	6579	7257	50414	12946	7228
								9%	2%	3%	8%	7%	8%
							grade 5 events	11562	29043	13885	38299	17872	13789
								14%	8%	7%	6%	10%	16%
							grade 6 events	13804	132422	27070	218800	33505	16456
								17%	40%	14%	37%	20%	19%
							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_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	267.707184	267.6920310738673	Subarray requested	NONE	NONE
[deg] Pointing Dec	-31.306741	-31.28277939785626	Alternating exposures requested	N	N
[deg] Pointing Roll	87.468970	87.61772456893586	[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	-183.992523	-183.985022191653			
[mm] SIM translation stage offset	-6.14	-6.147500391354811			
[s] Observation start time (MET)	196989005.184000	196988028.35911			
Observation start date	2004-03-29T23:09:01	2004-03-29T22:53:48			
[s] Observation end time (MET)	197034005.184000	197034662.27366			
Observation end date	2004-03-30T11:39:01	2004-03-30T11:51:02			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



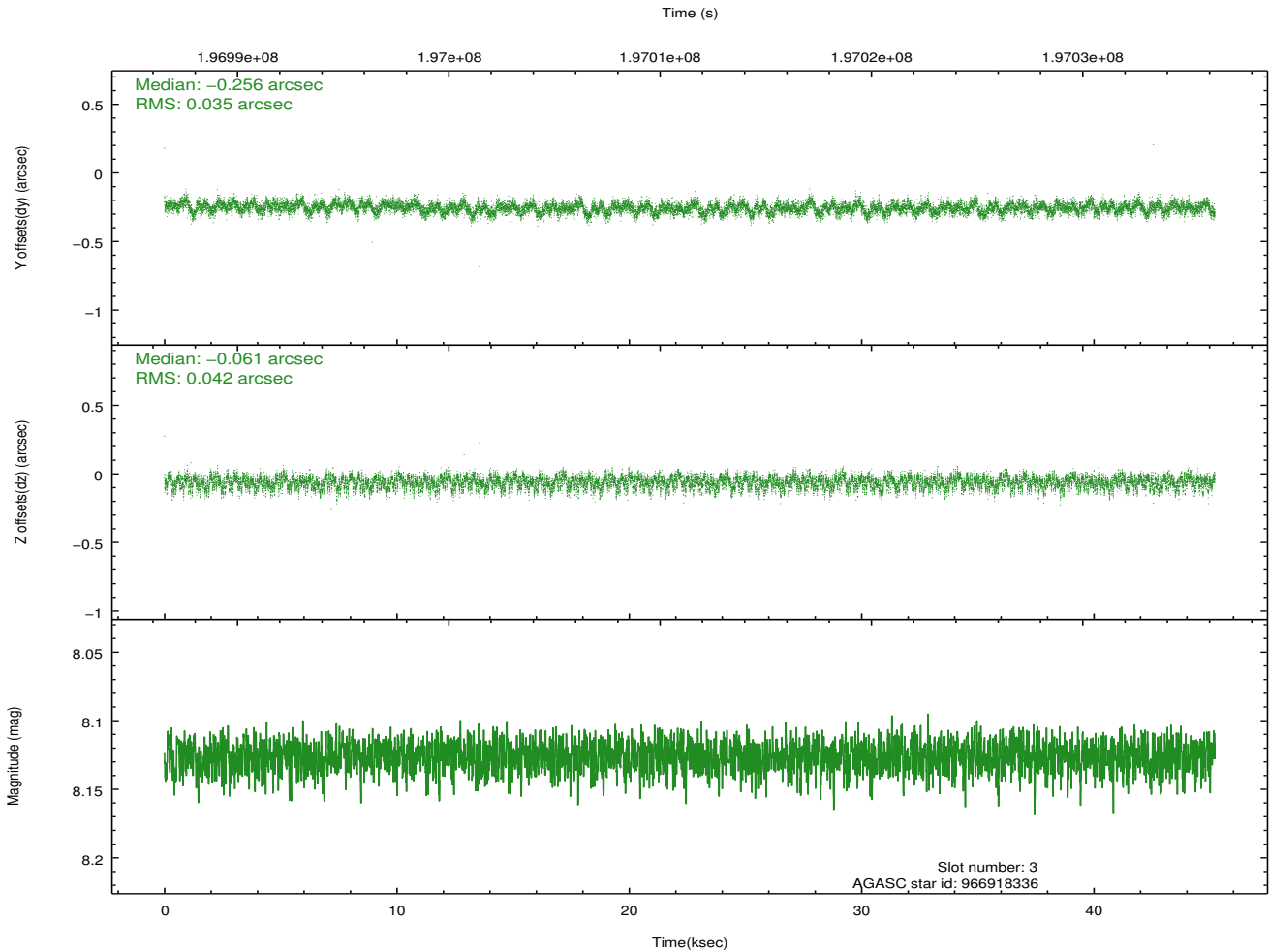
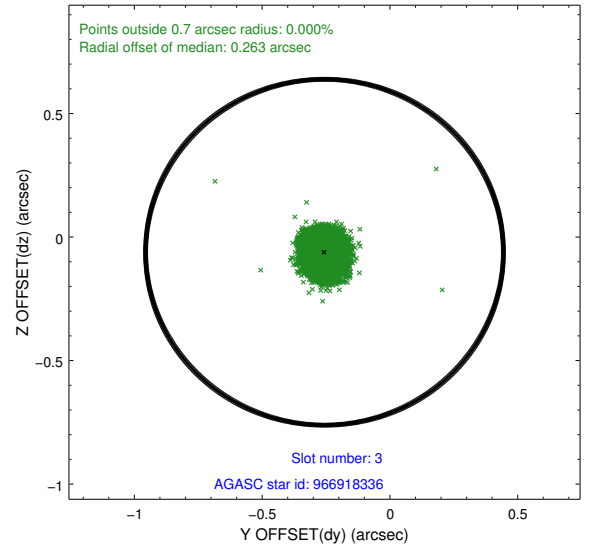
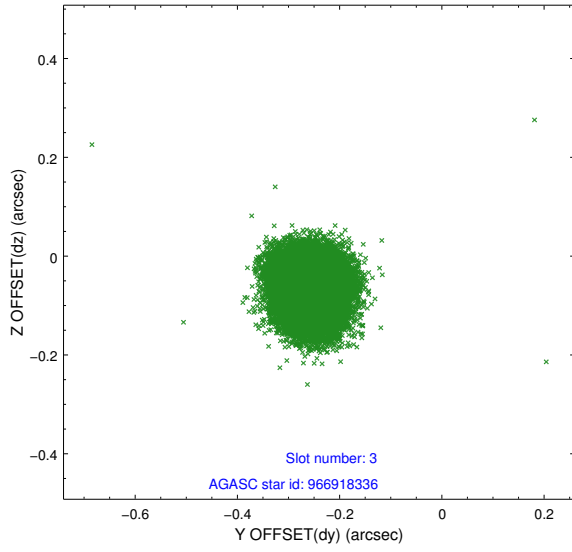


Slot Statistics

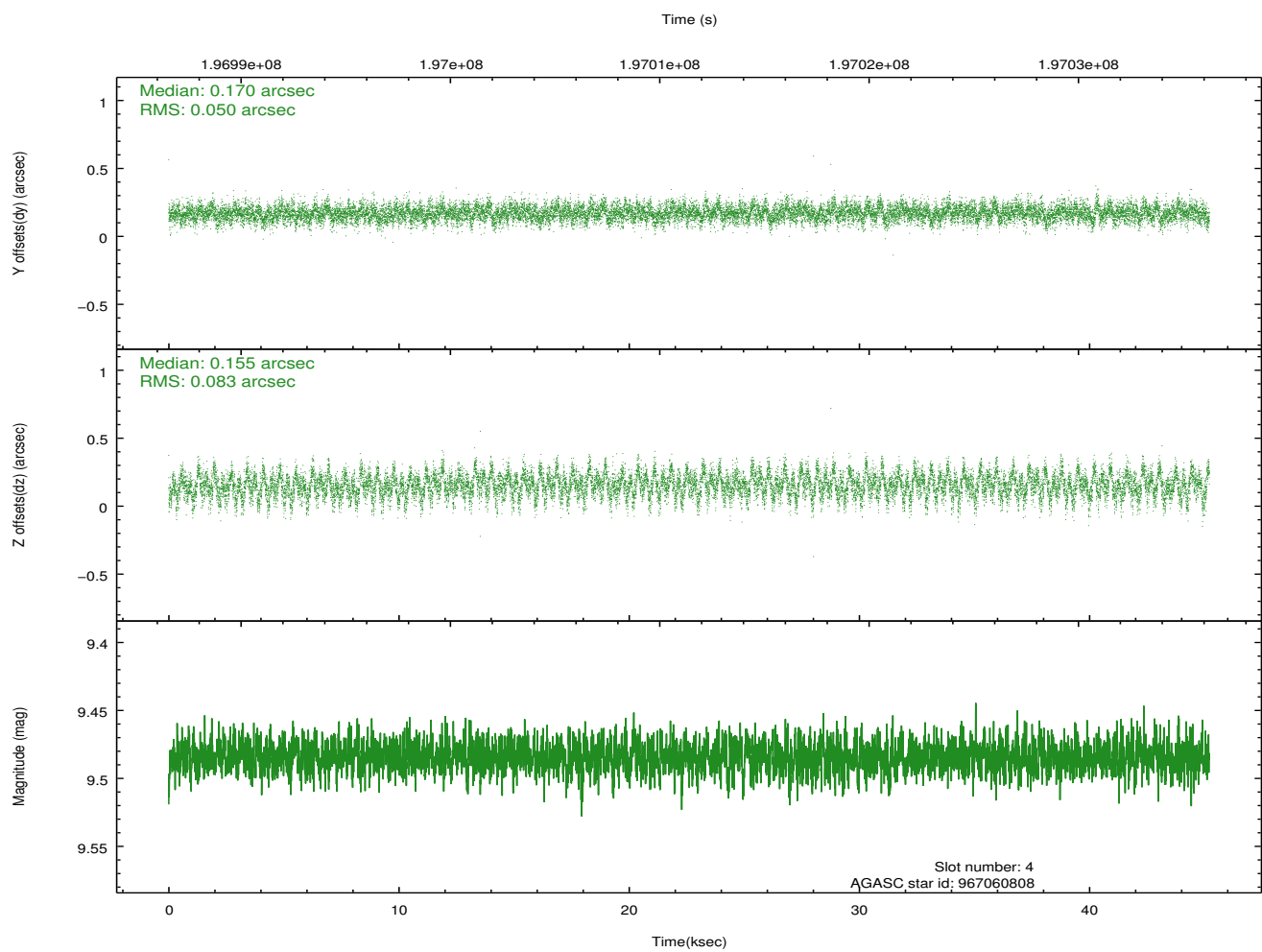
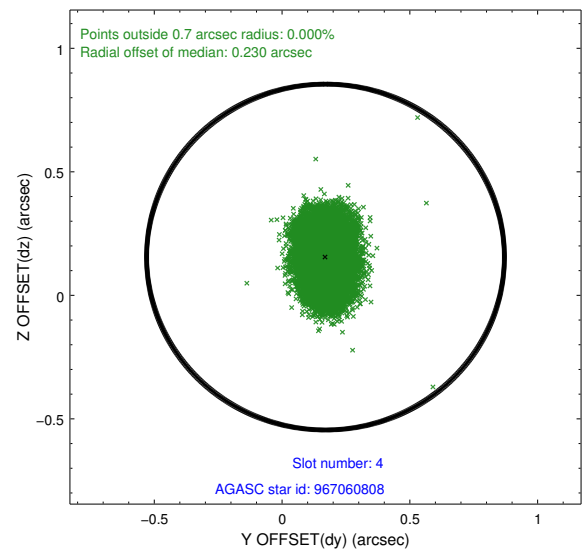
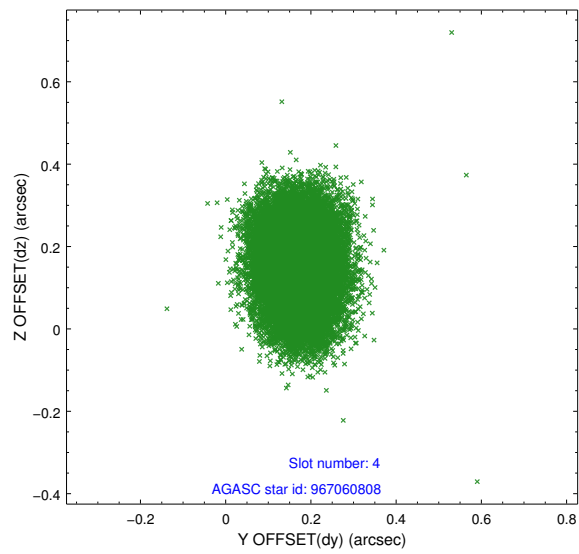
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.08	11027	-0.117	-0.082	0.010	0.025	0.000000	0.000000	-758.36	-1857.09
1	FID	ACIS-S-4	7.18	11027	0.069	0.081	0.011	0.026	0.000000	0.000000	2155.13	51.52
2	FID	ACIS-S-6	7.40	11028	0.020	0.008	0.009	0.015	0.000000	0.000000	403.78	688.85
3	GUIDE	966918336	8.13	22053	-0.256	-0.061	0.058	0.092	267.709998	-30.955430	1263.80	47.35
4	GUIDE	967060808	9.48	22038	0.170	0.155	0.102	0.171	268.200929	-31.521310	-707.67	-1547.73
5	GUIDE	966924408	8.94	22038	-0.205	-0.205	0.098	0.154	266.982893	-30.897884	1364.18	2299.92
6	GUIDE	967060832	9.32	21984	0.108	0.171	0.080	0.128	267.800373	-31.675183	-1312.21	-343.48
7	GUIDE	967451816	9.26	21969	0.189	-0.062	0.090	0.148	267.266669	-31.901374	-2200.74	1250.32

2.4 Star Slots

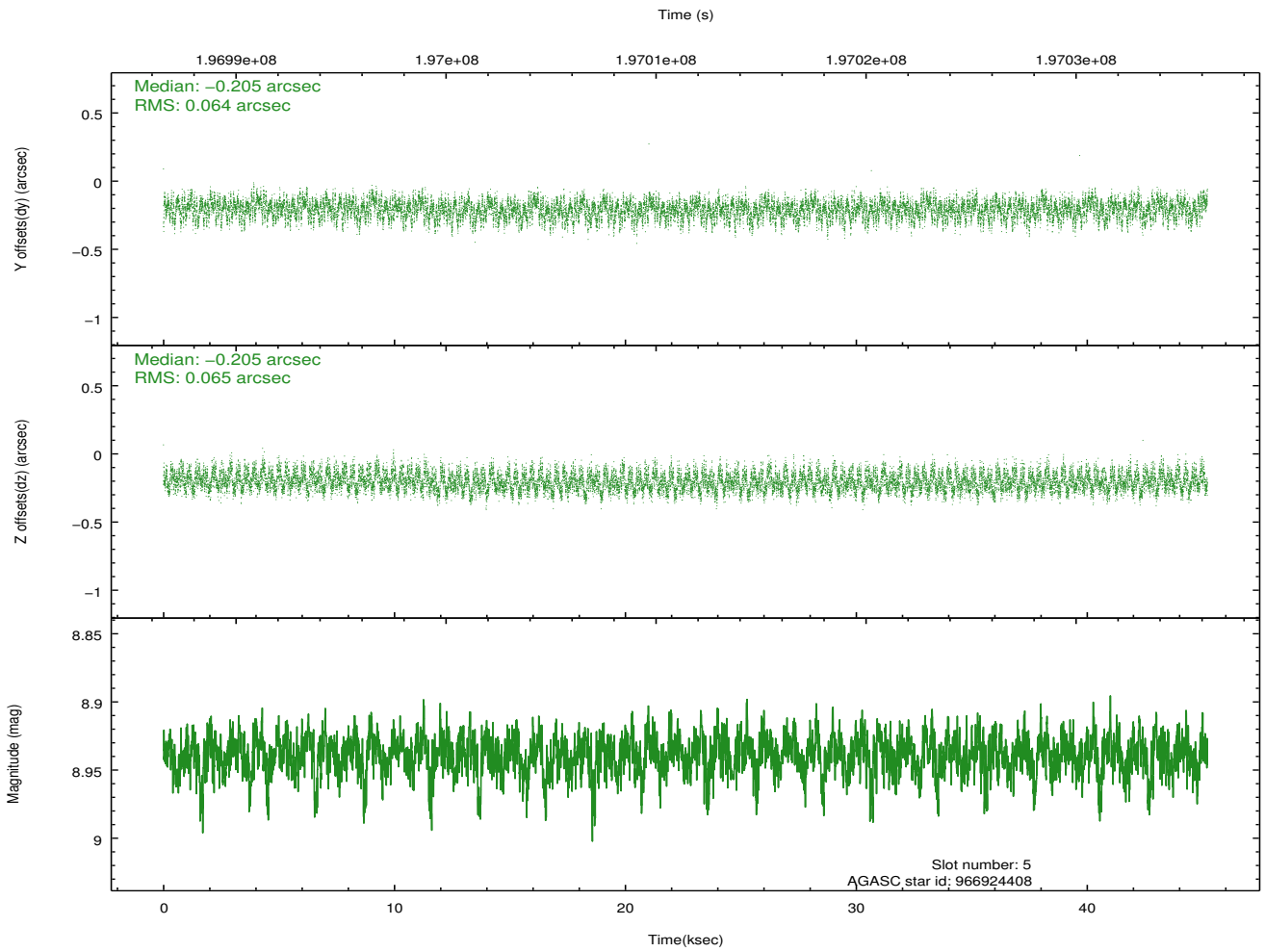
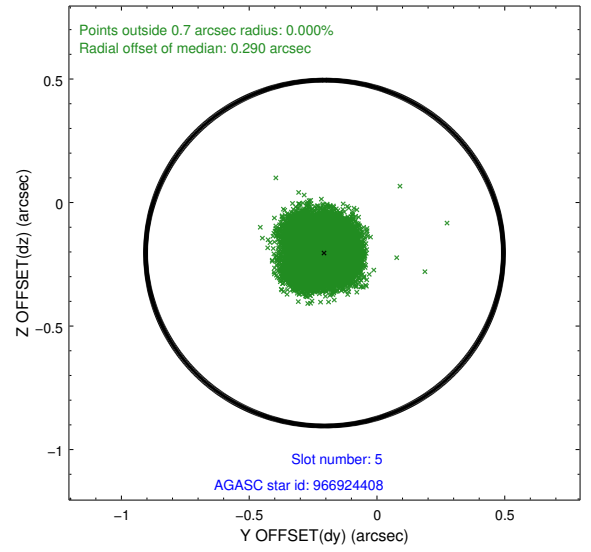
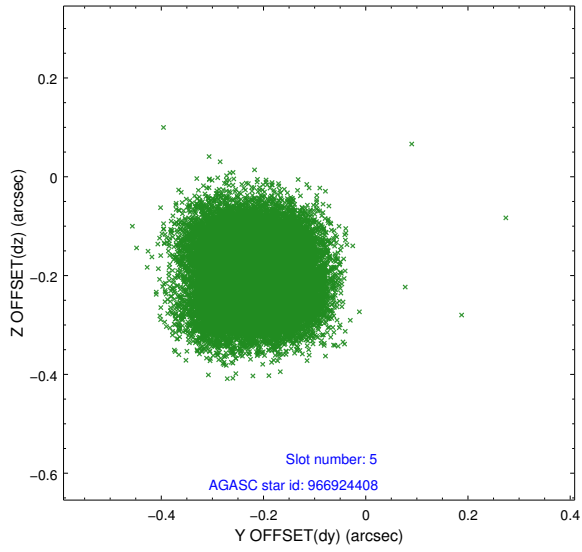
2.4.1 Slot 3



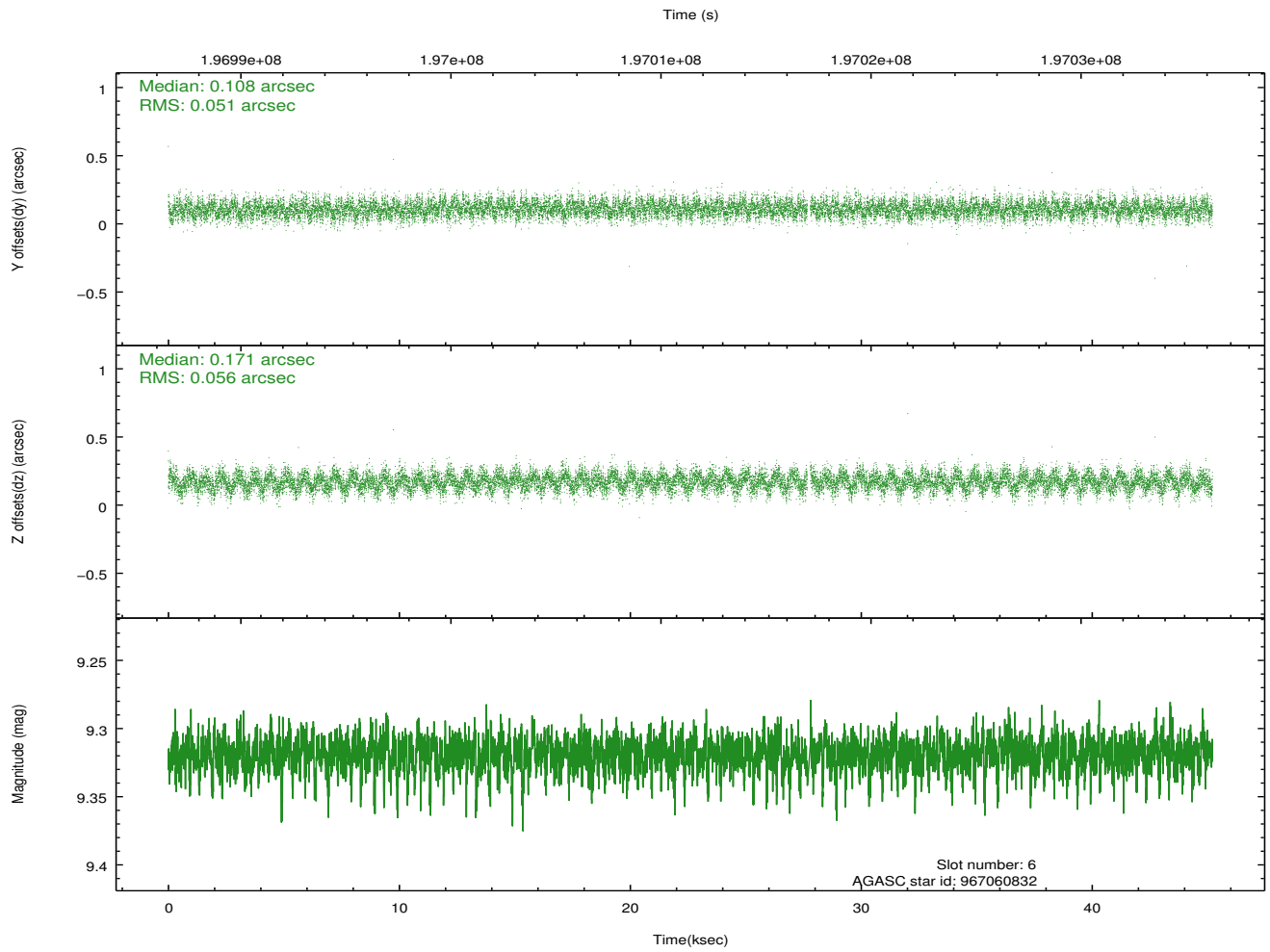
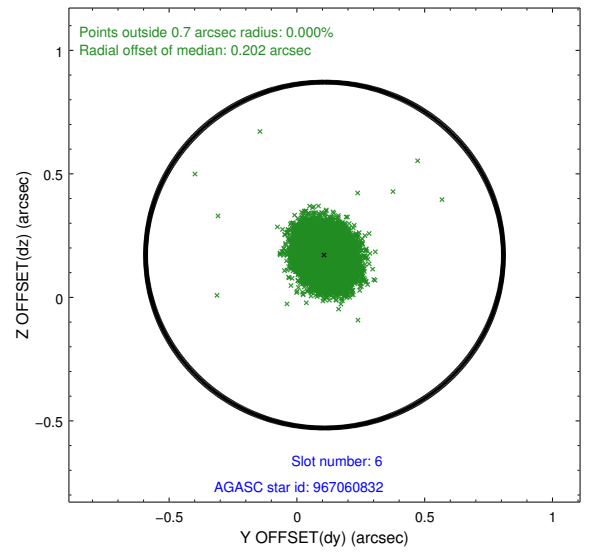
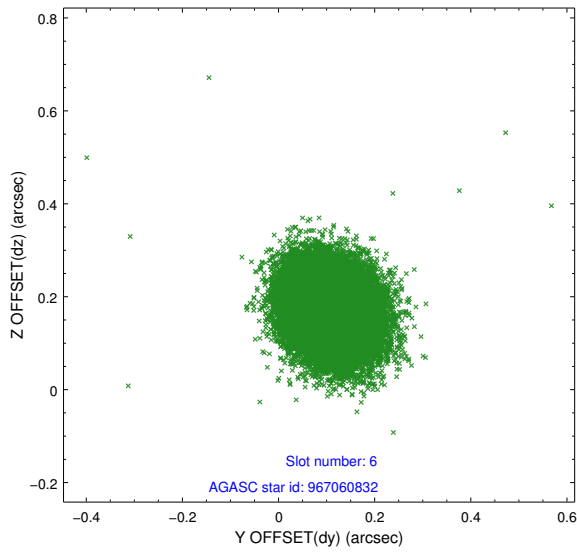
2.4.2 Slot 4



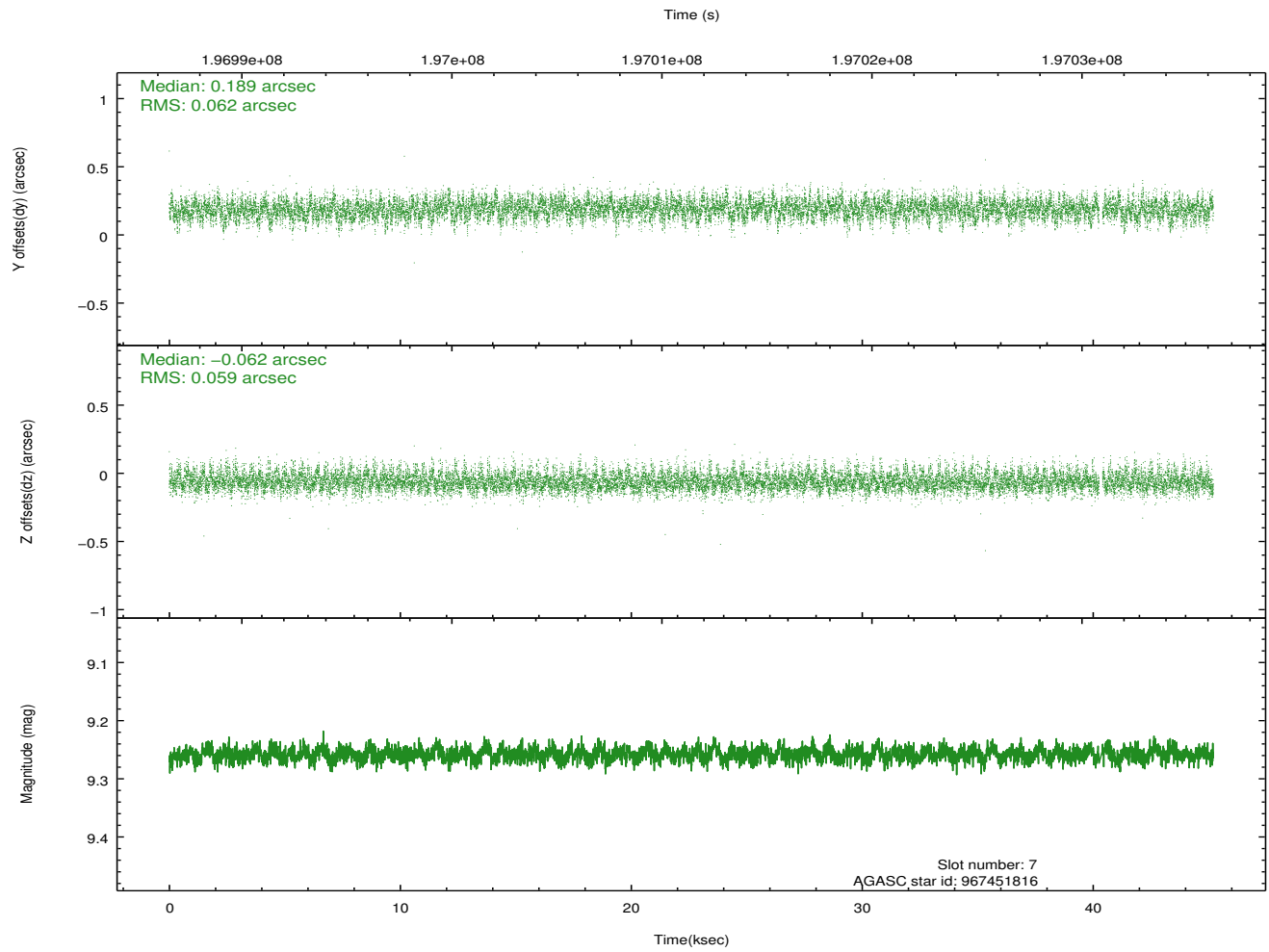
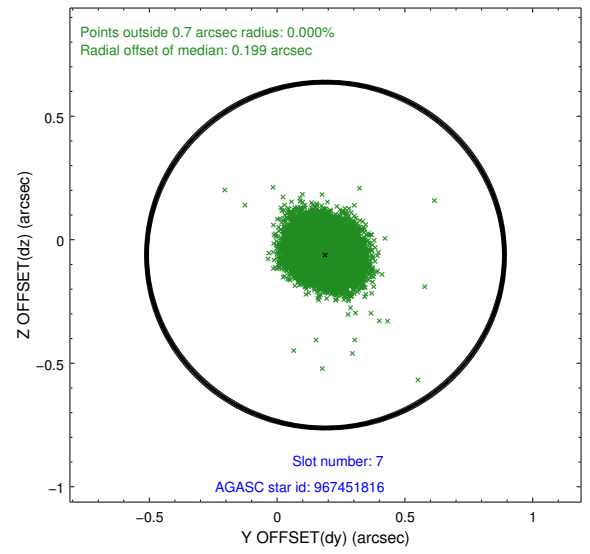
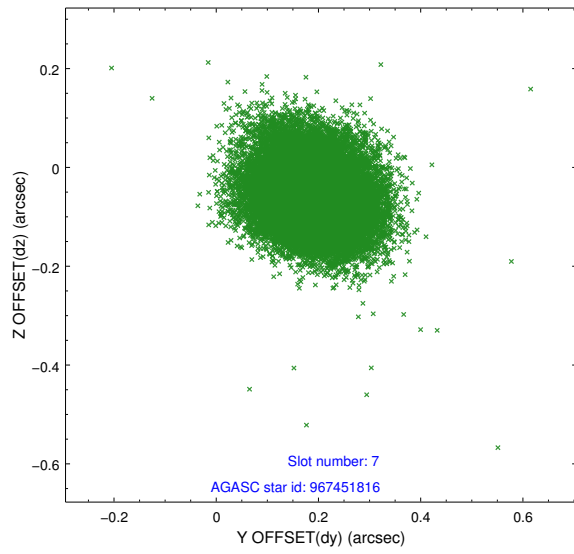
2.4.3 Slot 5



2.4.4 Slot 6

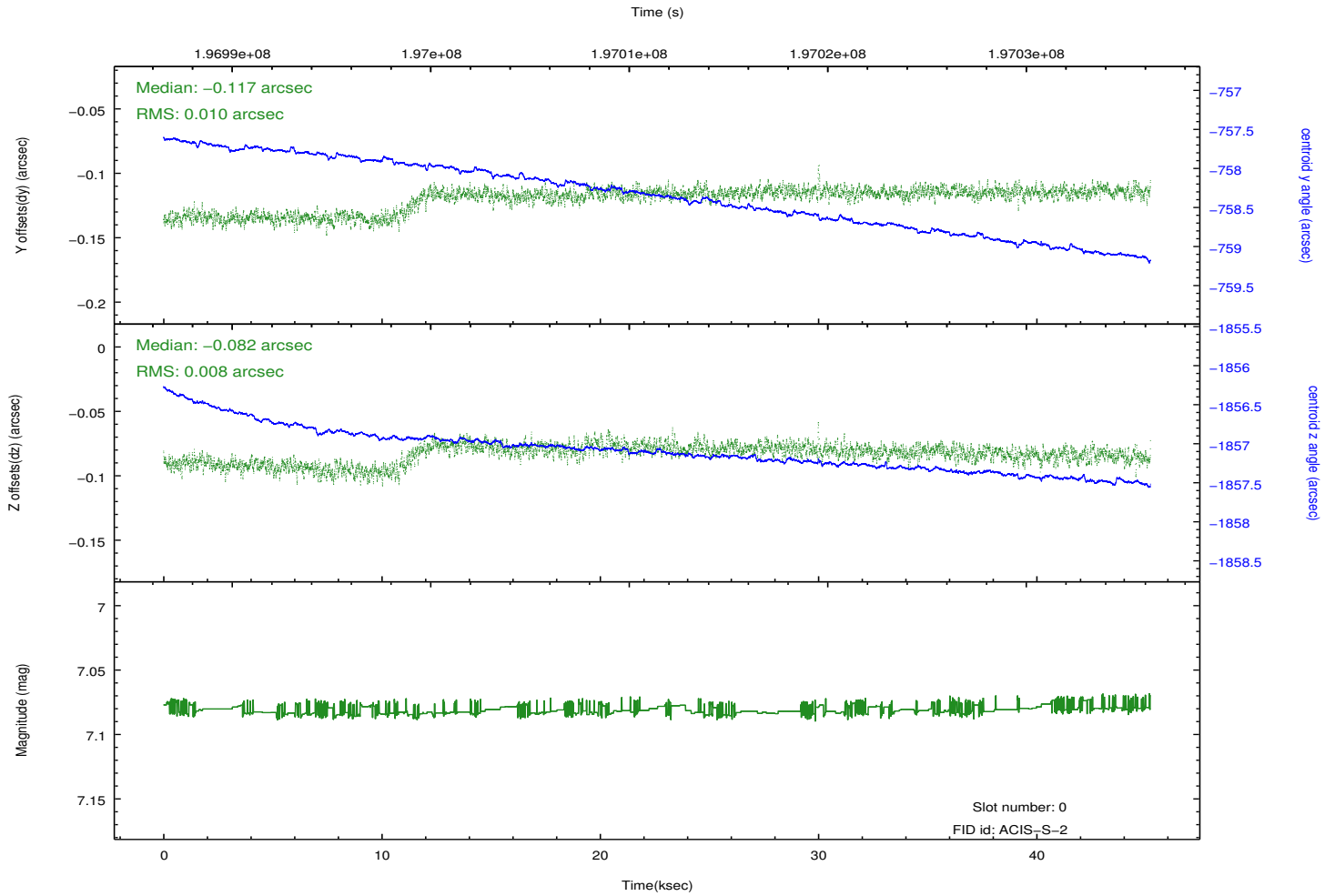
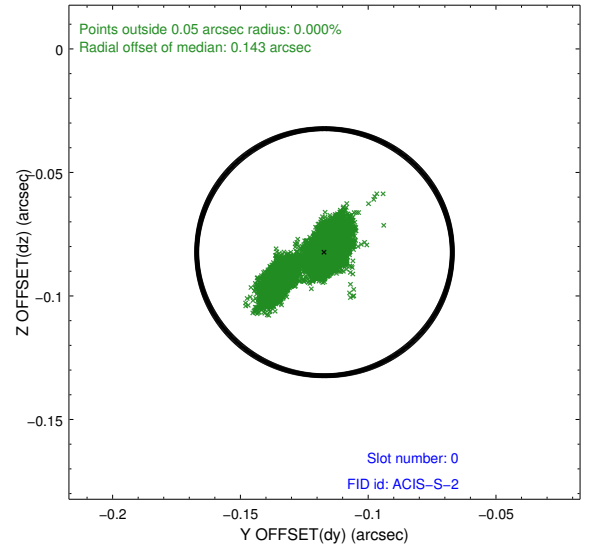
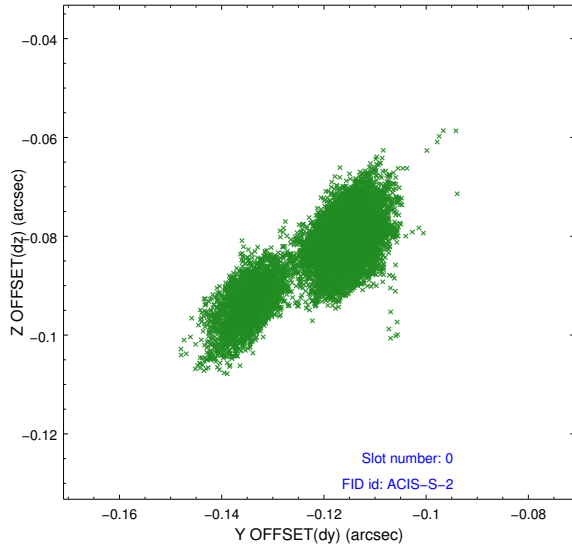


2.4.5 Slot 7

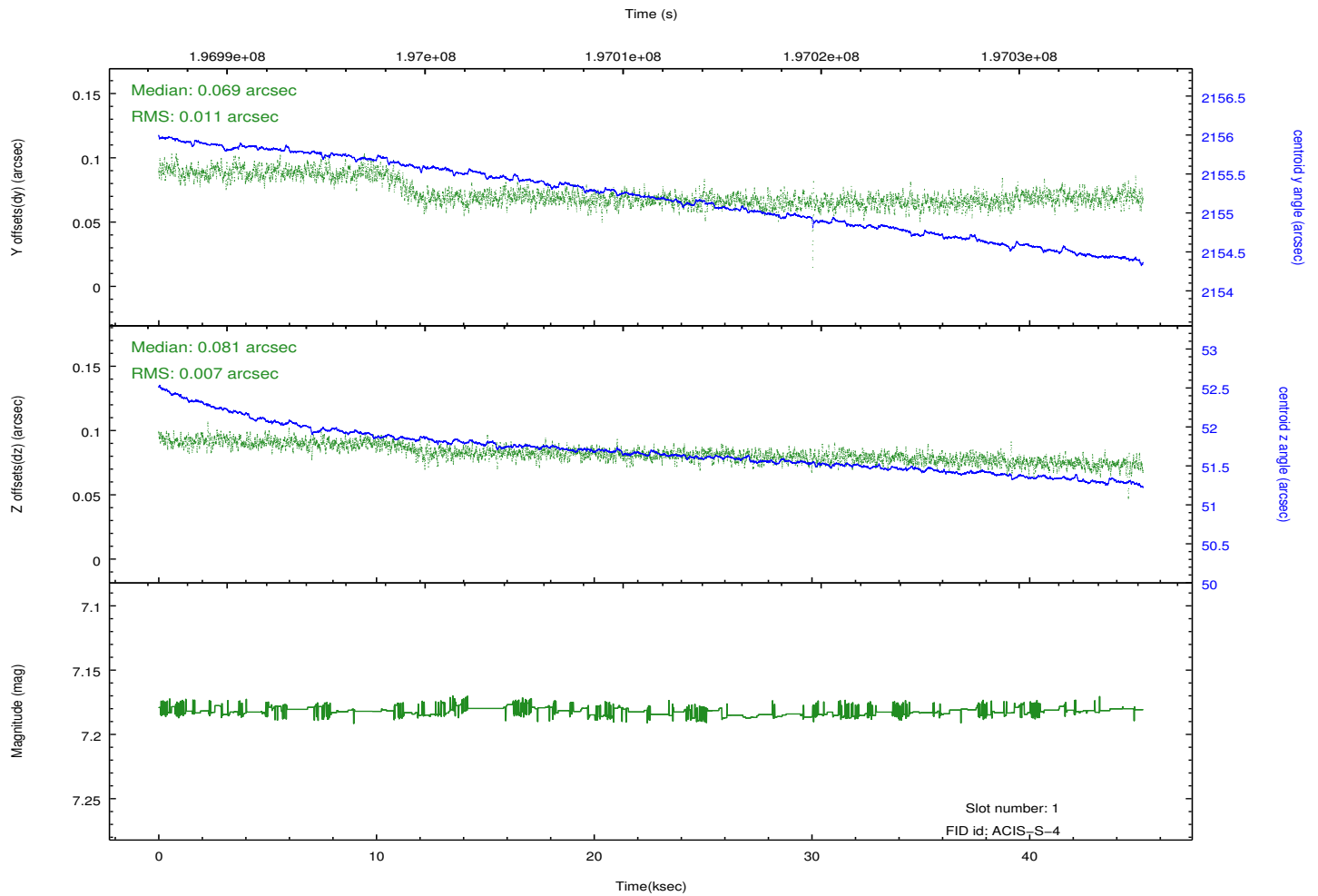
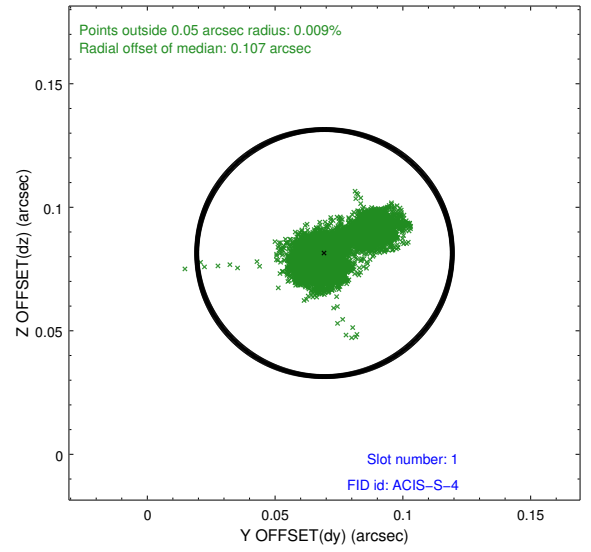
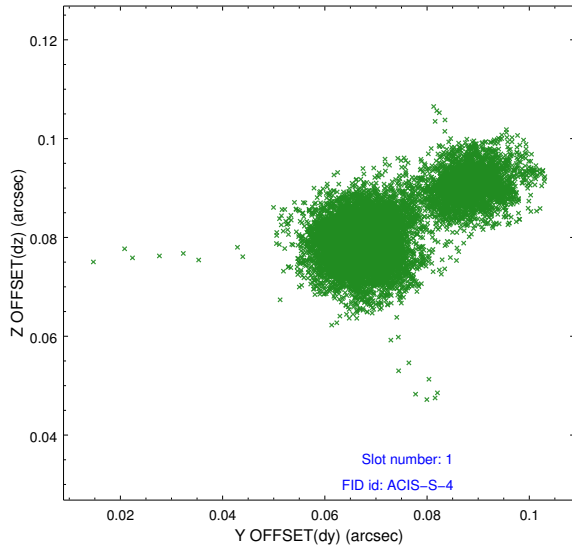


2.5 FID Slots

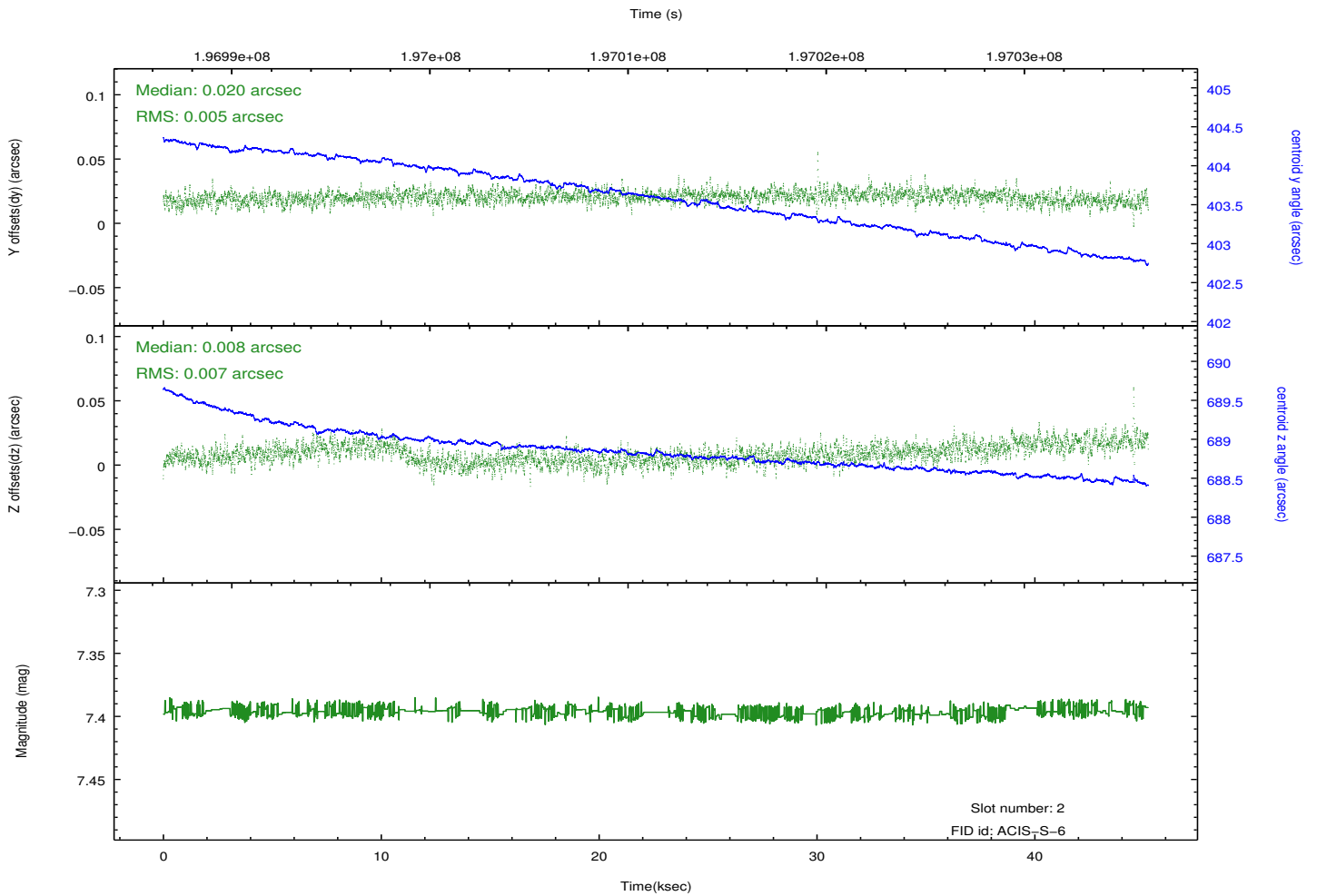
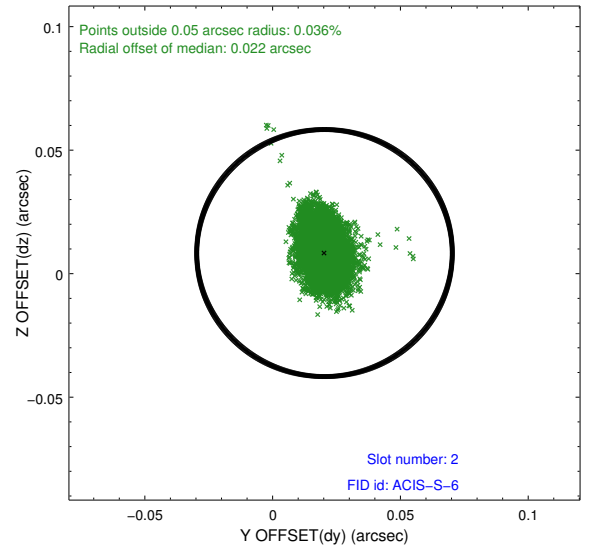
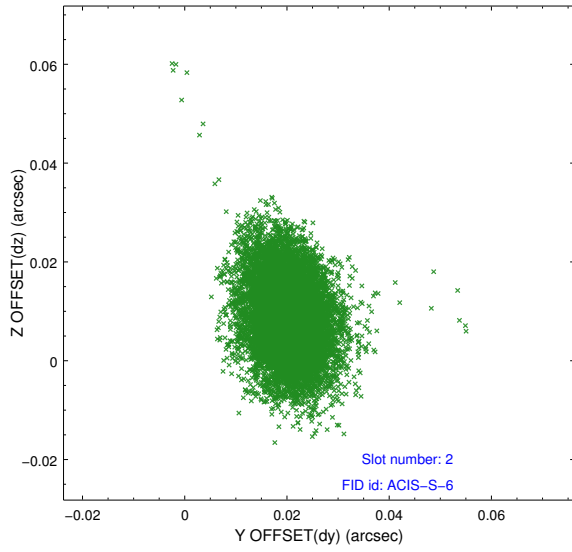
2.5.1 Slot 0



2.5.2 Slot 1

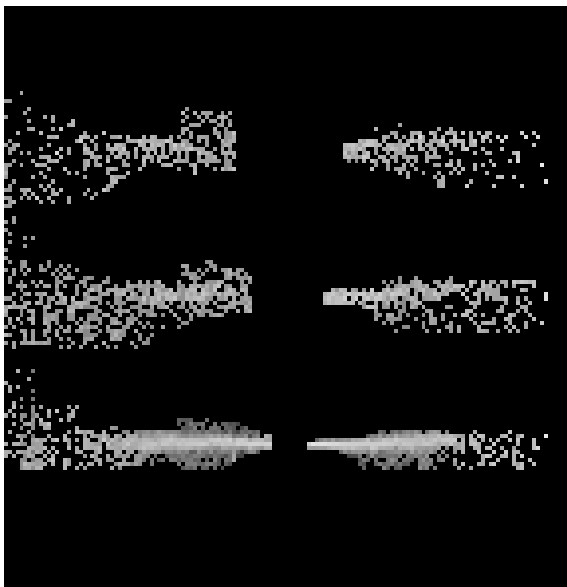


2.5.3 Slot 2

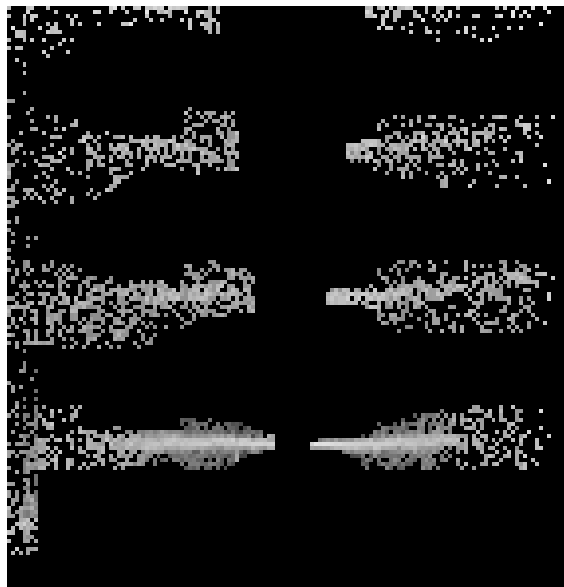


3 Gratings

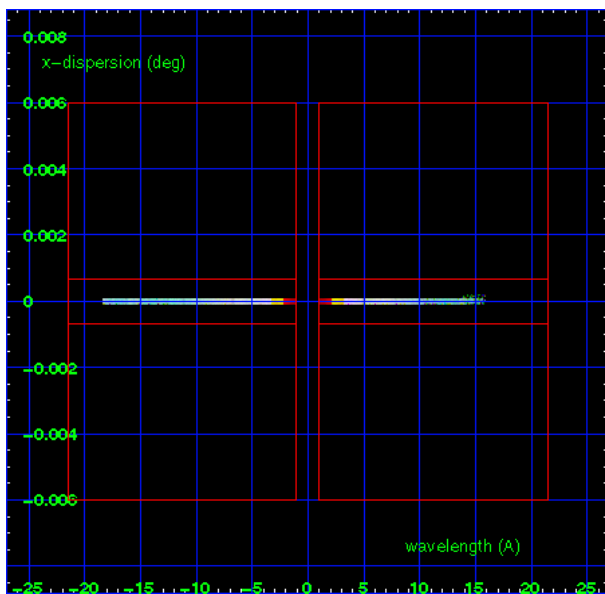
3.1 HEG Arm



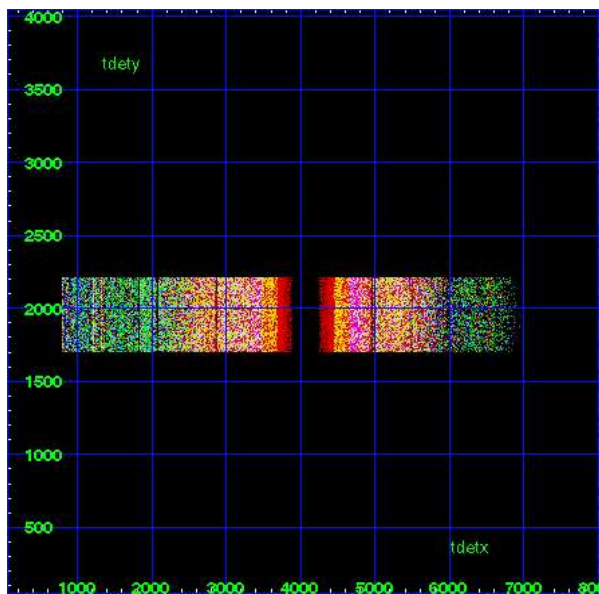
HEG Order Sort 123



HEG Order Sort ALL

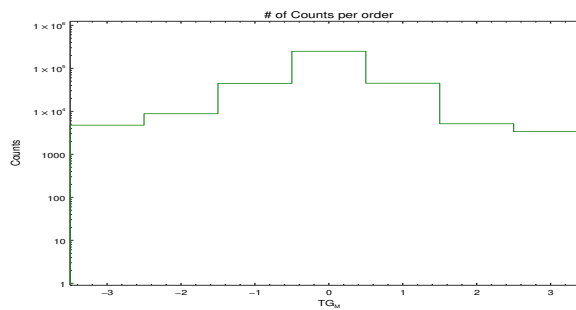


Spot Image HEG

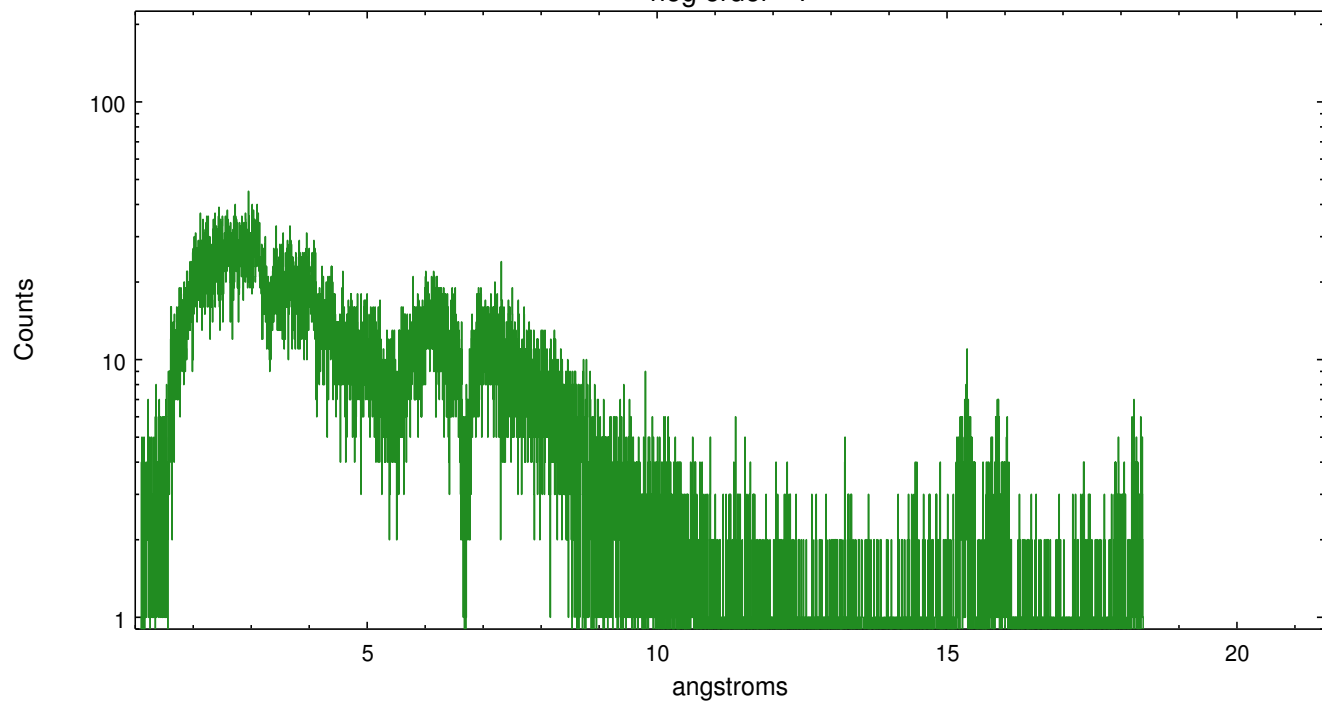


Full Detector HEG

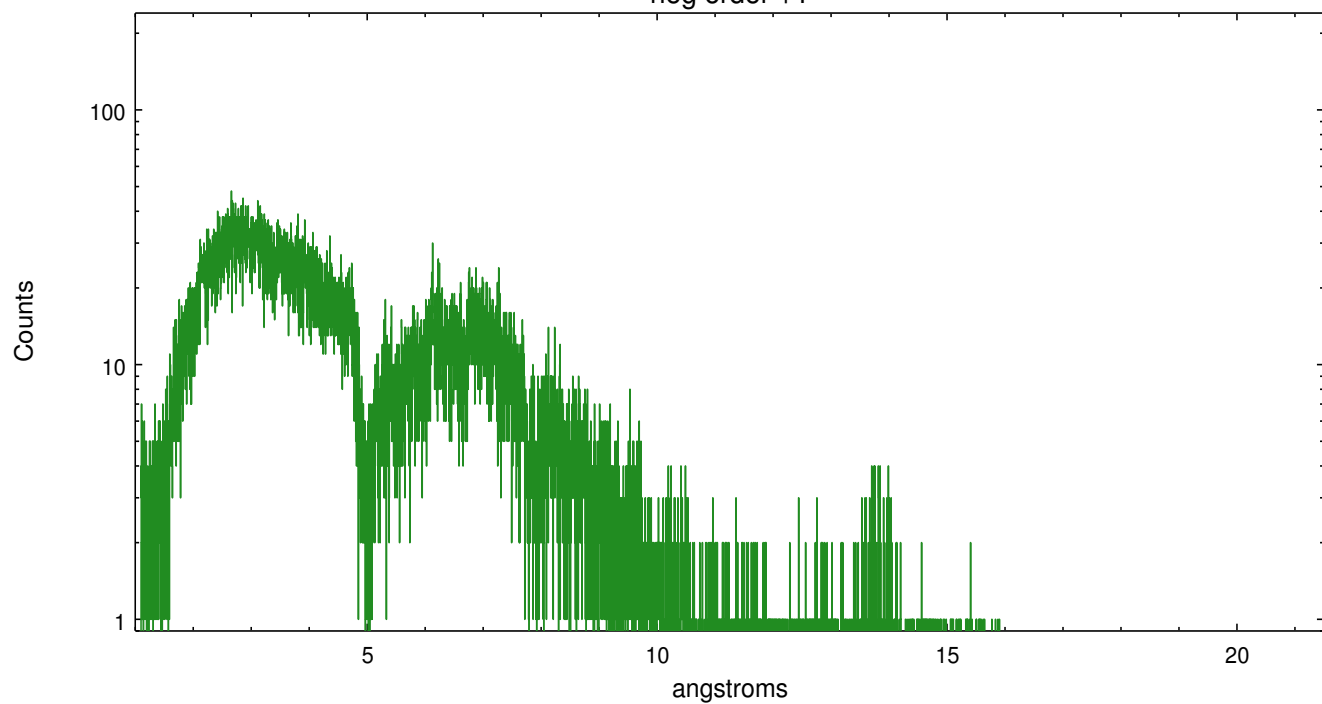
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Events	4746	8781	44415	248140	44865	5130	3365



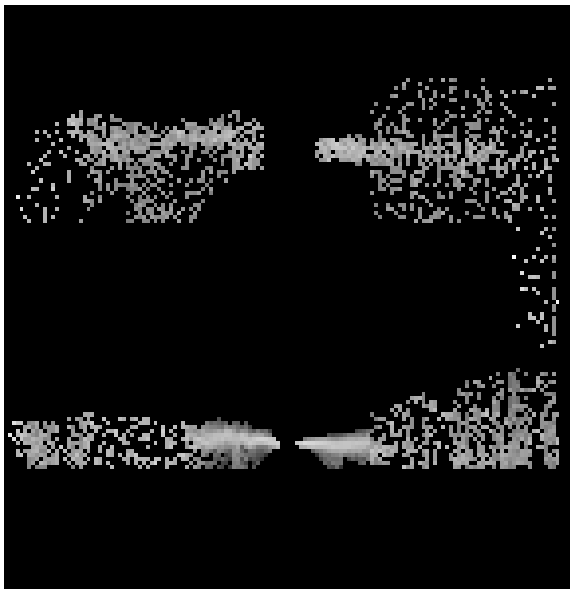
heg order -1



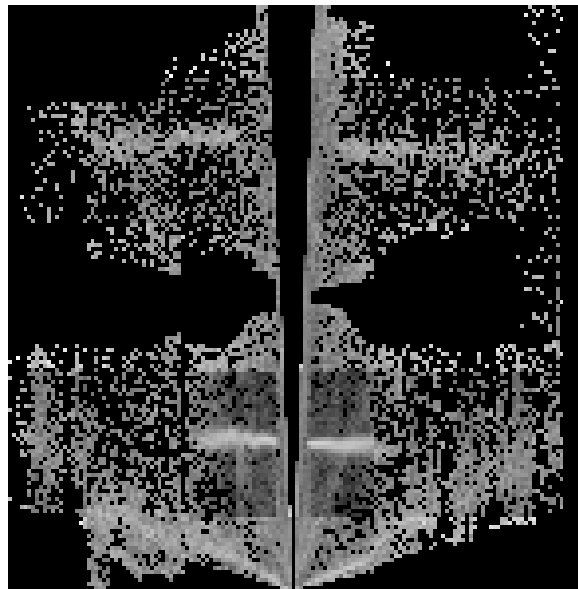
heg order +1



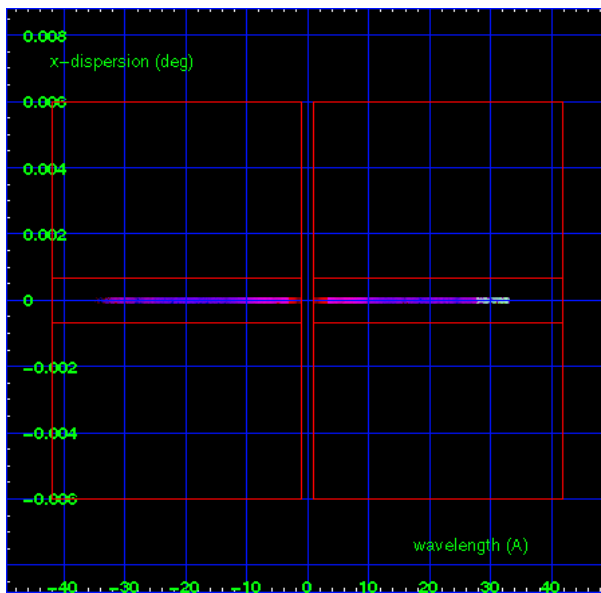
3.2 MEG Arm



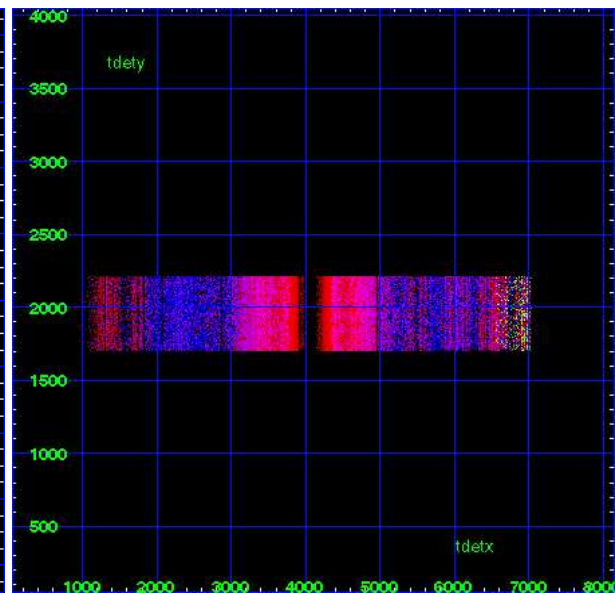
MEG Order Sort 123



MEG Order Sort ALL

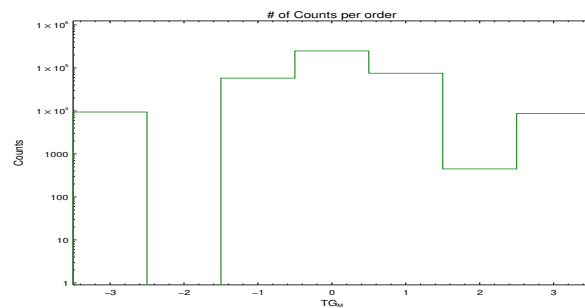


Spot Image MEG

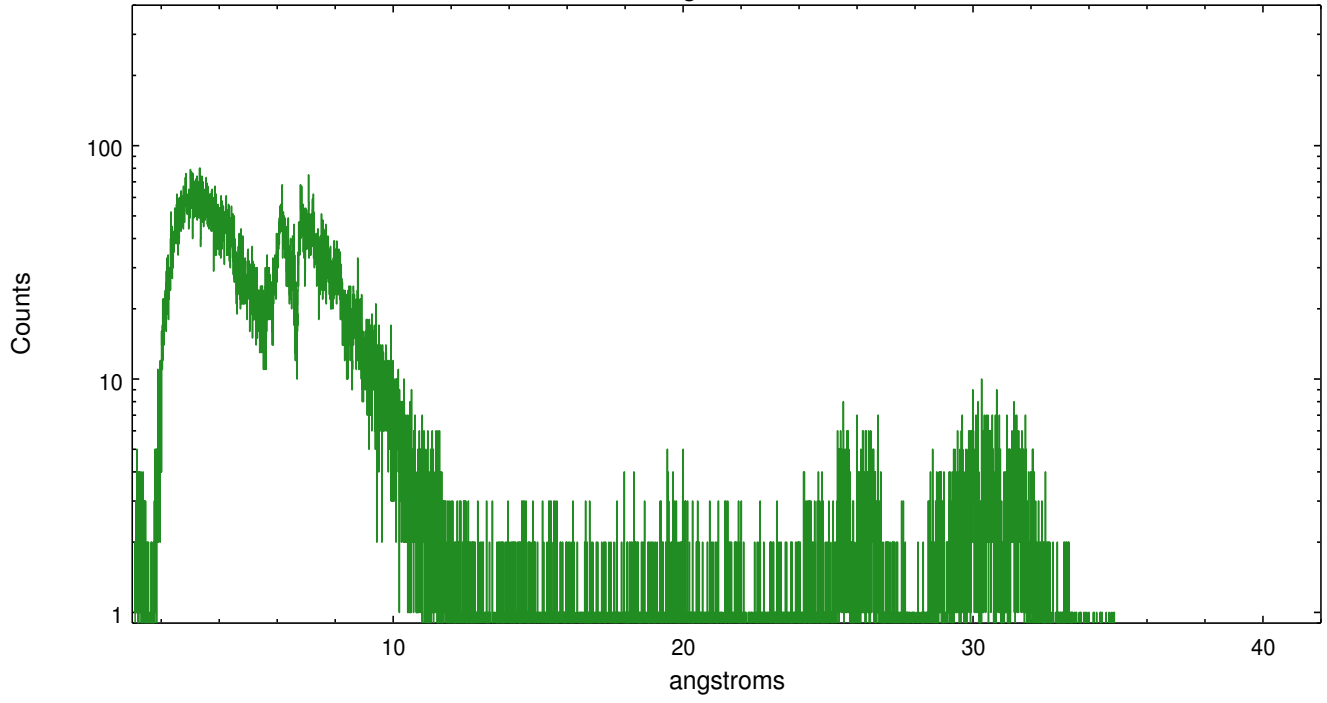


Full Detector MEG

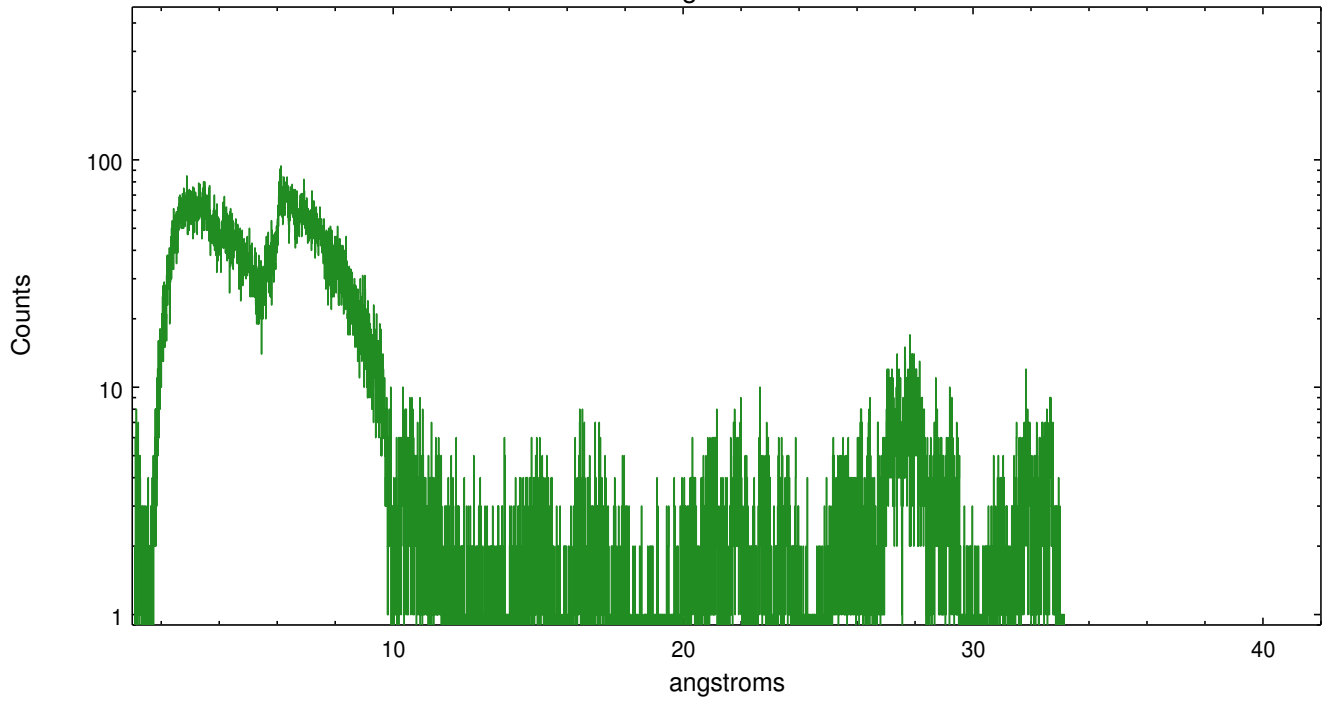
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	9426	0	57805	248140	75158	448	8713



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.12.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.211

A.2 Comments