

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 7032 - L2 Version 2
Chandra X-Ray Center

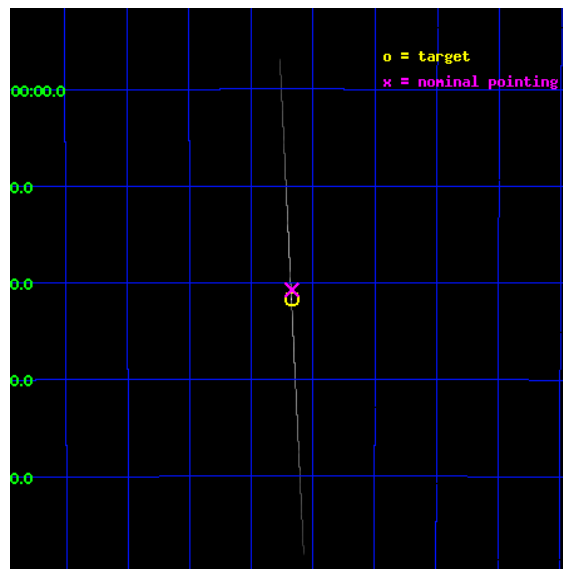
L2 Processing Date : Apr 13 2012

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1 Front

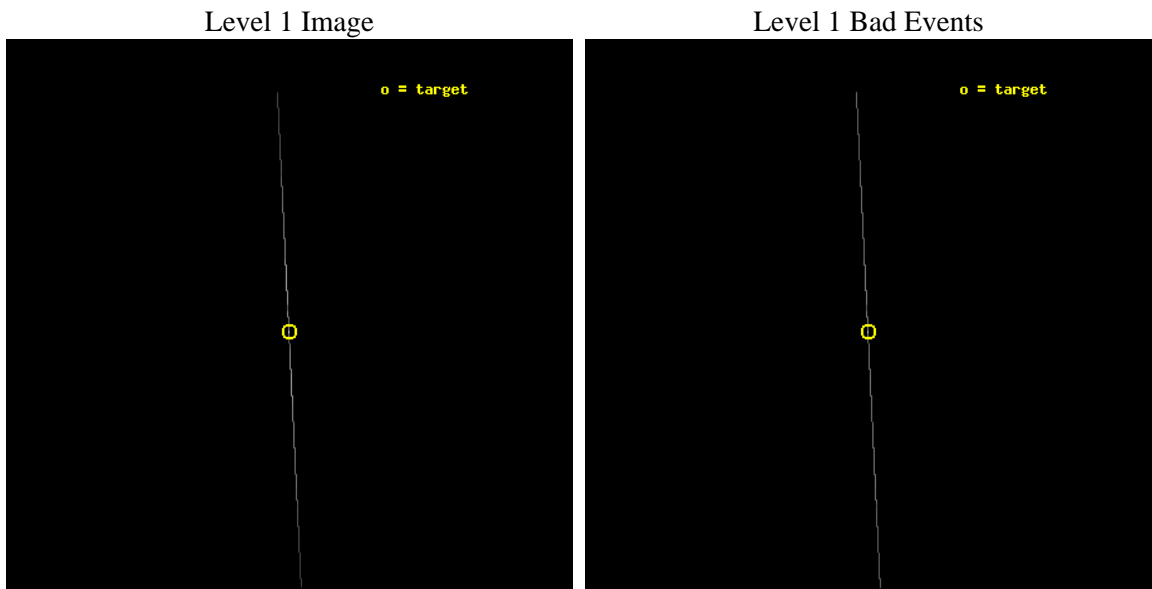
seq_num	900448	Sequence number
obs_id	7032	Observation id
title	A High-Resolution Study of Interstellar Absorption	Proposal title
observer	Dr. Adrienne Juett	Principal investigator
object	NGC 6624	Source name
ra_targ	275.91875	Observer's specified target RA [deg]
dec_targ	-30.361111	Observer's specified target Dec [deg]
ra_nom	275.91773191727	Nominal RA [deg]
dec_nom	-30.34563991187	Nominal Dec [deg]
roll_nom	267.18807707365	Nominal Roll [deg]
revision	2	Processing version of data
ontime	46343.75	Sum of GTIs [s]
livetime	46162.719726562	Livetime [s]
ontime4	46343.75	Sum of GTIs [s]
ontime5	46343.75	Sum of GTIs [s]
ontime6	46343.75	Sum of GTIs [s]
ontime7	46343.75	Sum of GTIs [s]
ontime8	46343.75	Sum of GTIs [s]
ontime9	46343.75	Sum of GTIs [s]
l2events	11168630	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	46161.819000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	46343.75	Sum of GTIs [s]
caldbver	4.4.9	 	ontime4	46343.75	Sum of GTIs [s]
date	2012-04-13T02:03:33	Date and time of file creation	ontime5	46343.75	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	46343.75	Sum of GTIs [s]
			ontime7	46343.75	Sum of GTIs [s]
			ontime8	46343.75	Sum of GTIs [s]
			ontime9	46343.75	Sum of GTIs [s]
			l1events	12356365	Number of level 1 events

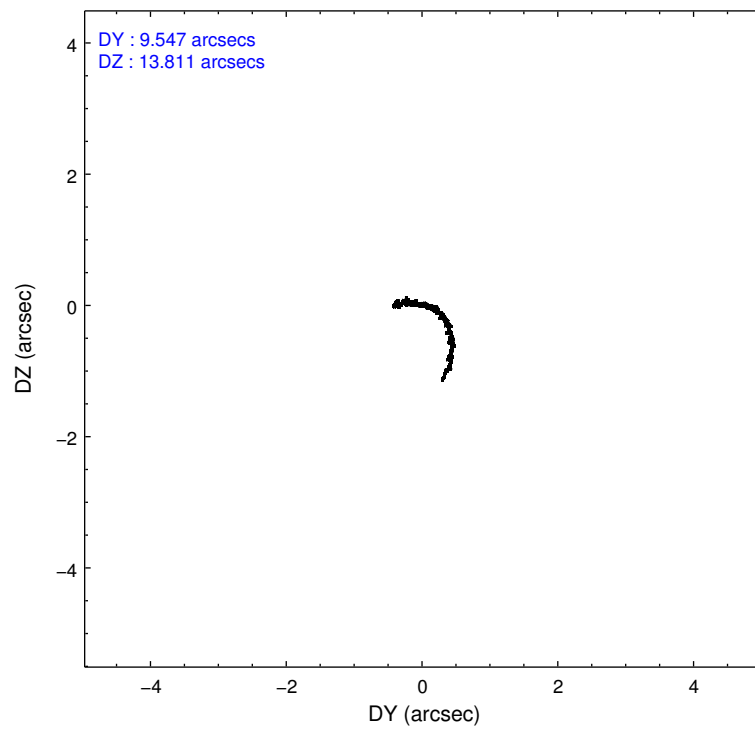
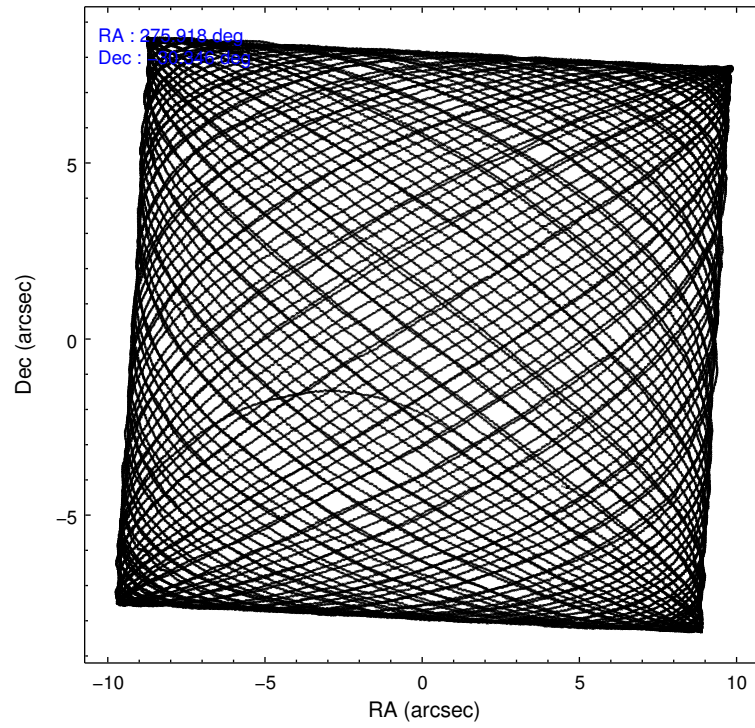
2.1.3 Events

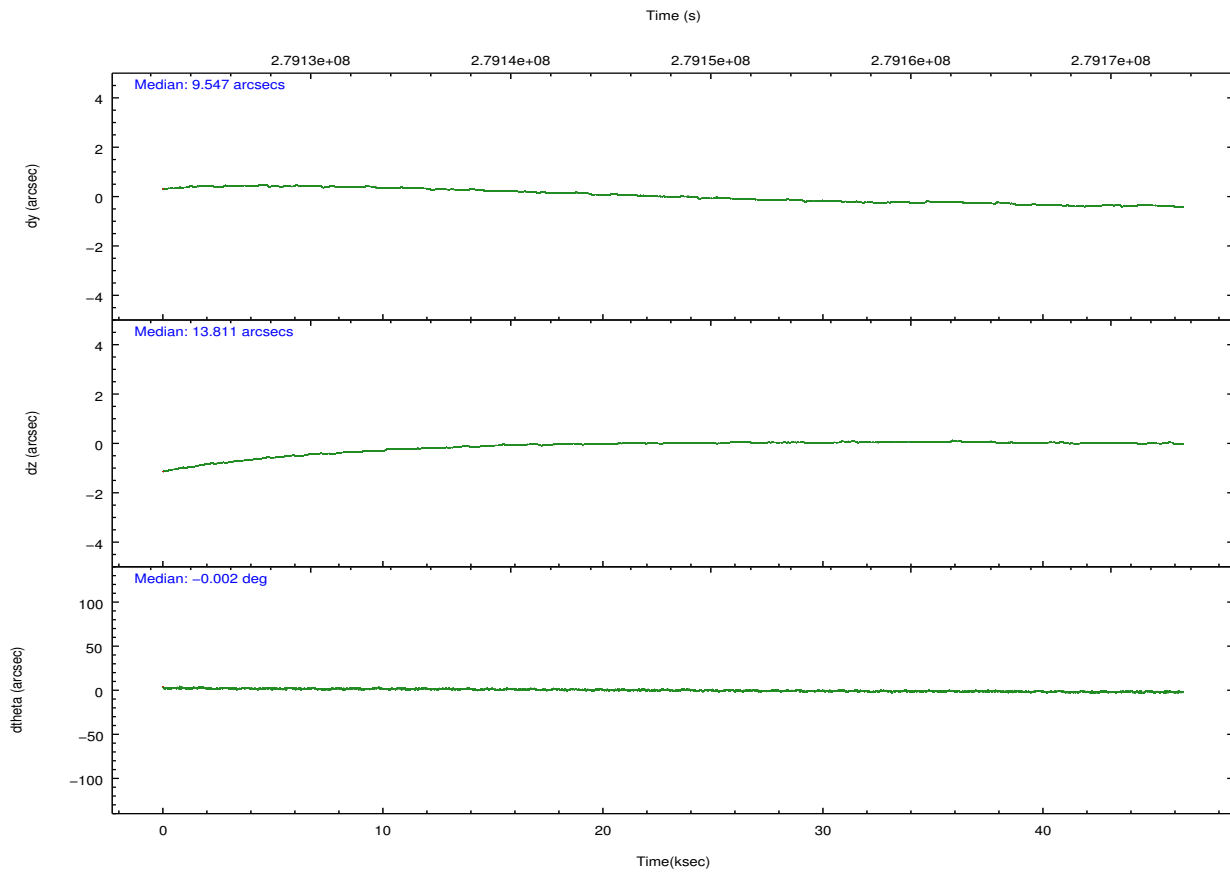
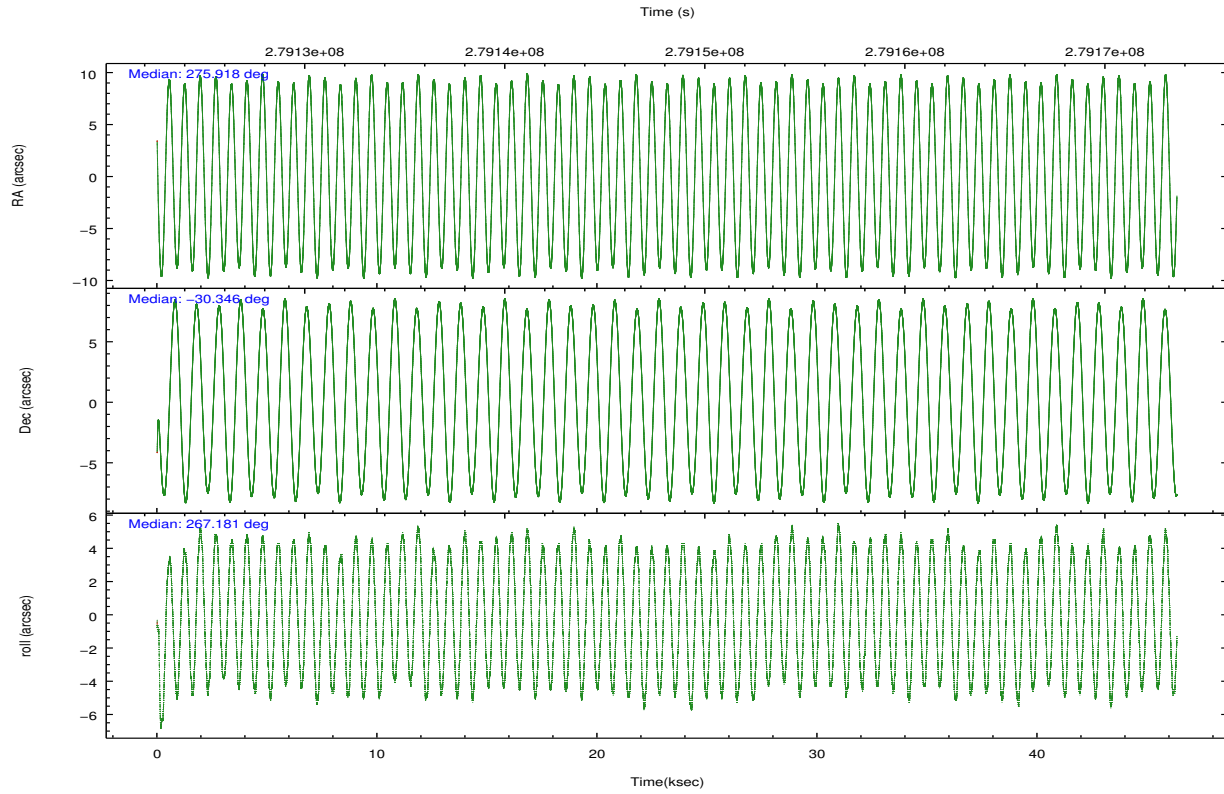
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	265208	1291447	3100401	6171364	1237796	290149	grade 0 events	62436	206647	661080	864283	692948	64601
rejected events	21890	62796	52379	387038	39296	23333		23%	16%	21%	14%	55%	22%
rejected %	8%	4%	1%	6%	3%	8%	grade 1 events	501	575	1617	44896	2216	558
								0%	0%	0%	0%	0%	0%
							grade 2 events	134688	522938	2043453	1701126	351015	151617
								50%	40%	65%	27%	28%	52%
							grade 3 events	12662	57403	37289	455009	42723	11021
								4%	4%	1%	7%	3%	3%
							grade 4 events	12576	56219	36692	454757	41936	11955
								4%	4%	1%	7%	3%	4%
							grade 5 events	16761	46065	35315	321348	29538	20146
								6%	3%	1%	5%	2%	6%
							grade 6 events	25584	401600	284955	2329945	77420	30251
								9%	31%	9%	37%	6%	10%
							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	275.902946	275.9177319172688	Subarray requested	NONE	NONE
[deg] Pointing Dec	-30.321569	-30.34563991186959	Alternating exposures requested	N	N
[deg] Pointing Roll	267.023983	267.1880770736506	[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	-183.9875365069546			
[mm] SIM translation stage offset	-6.14	-6.144986076053243			
[s] Observation start time (MET)	279125129.184000	279123757.99971			
Observation start date	2006-11-05T14:44:24	2006-11-05T14:22:37			
[s] Observation end time (MET)	279171291.184000	279171515.31447			
Observation end date	2006-11-06T03:33:46	2006-11-06T03:38:35			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



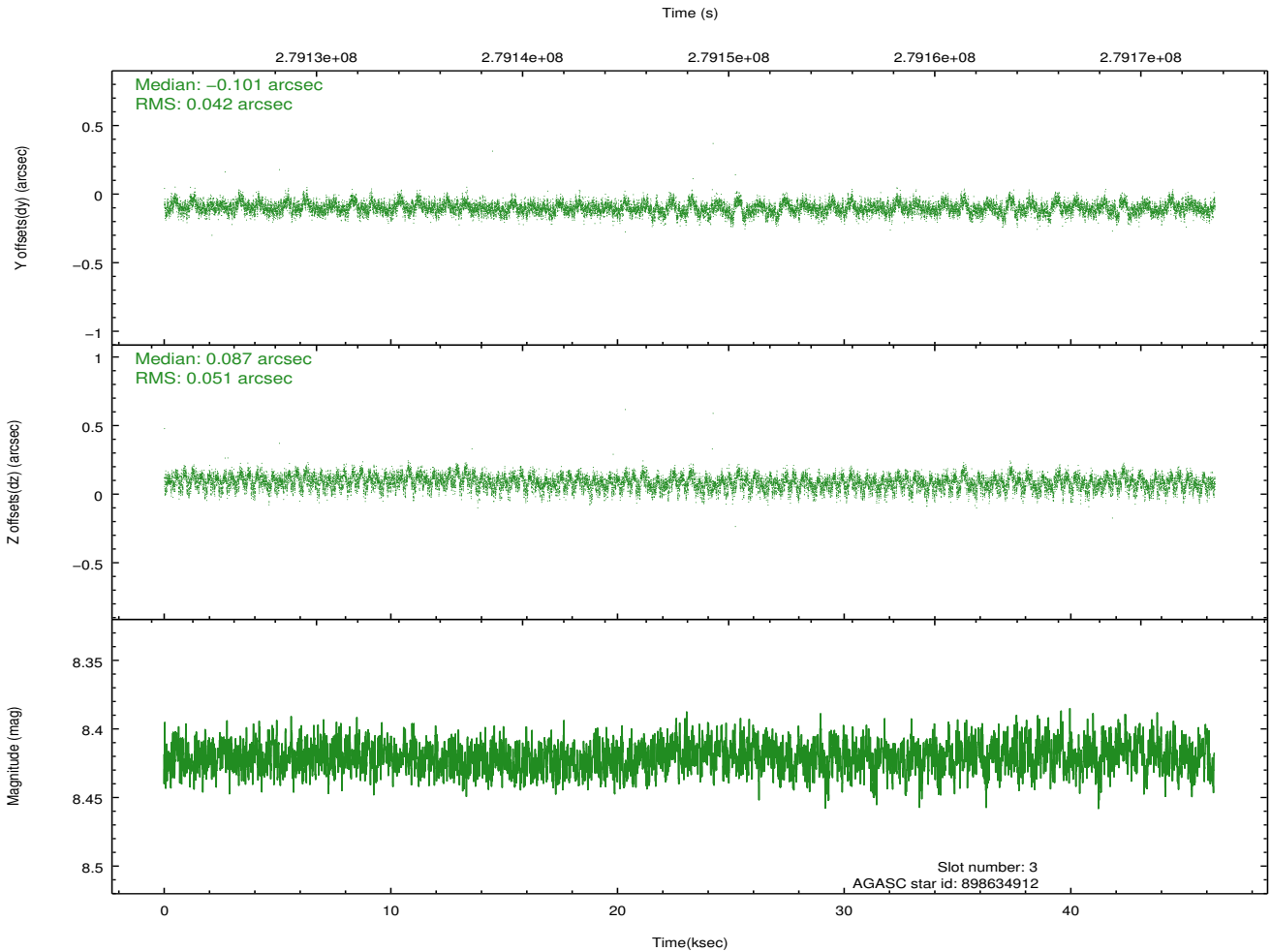
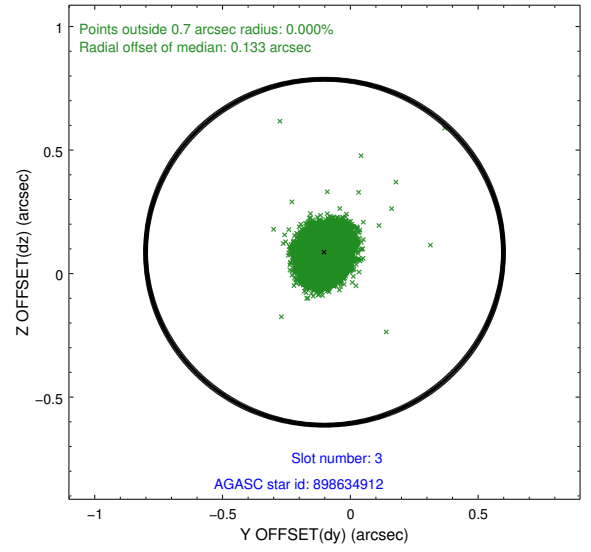
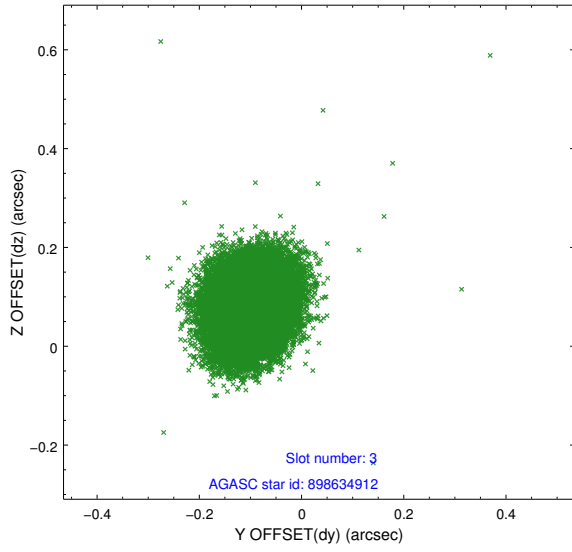


Slot Statistics

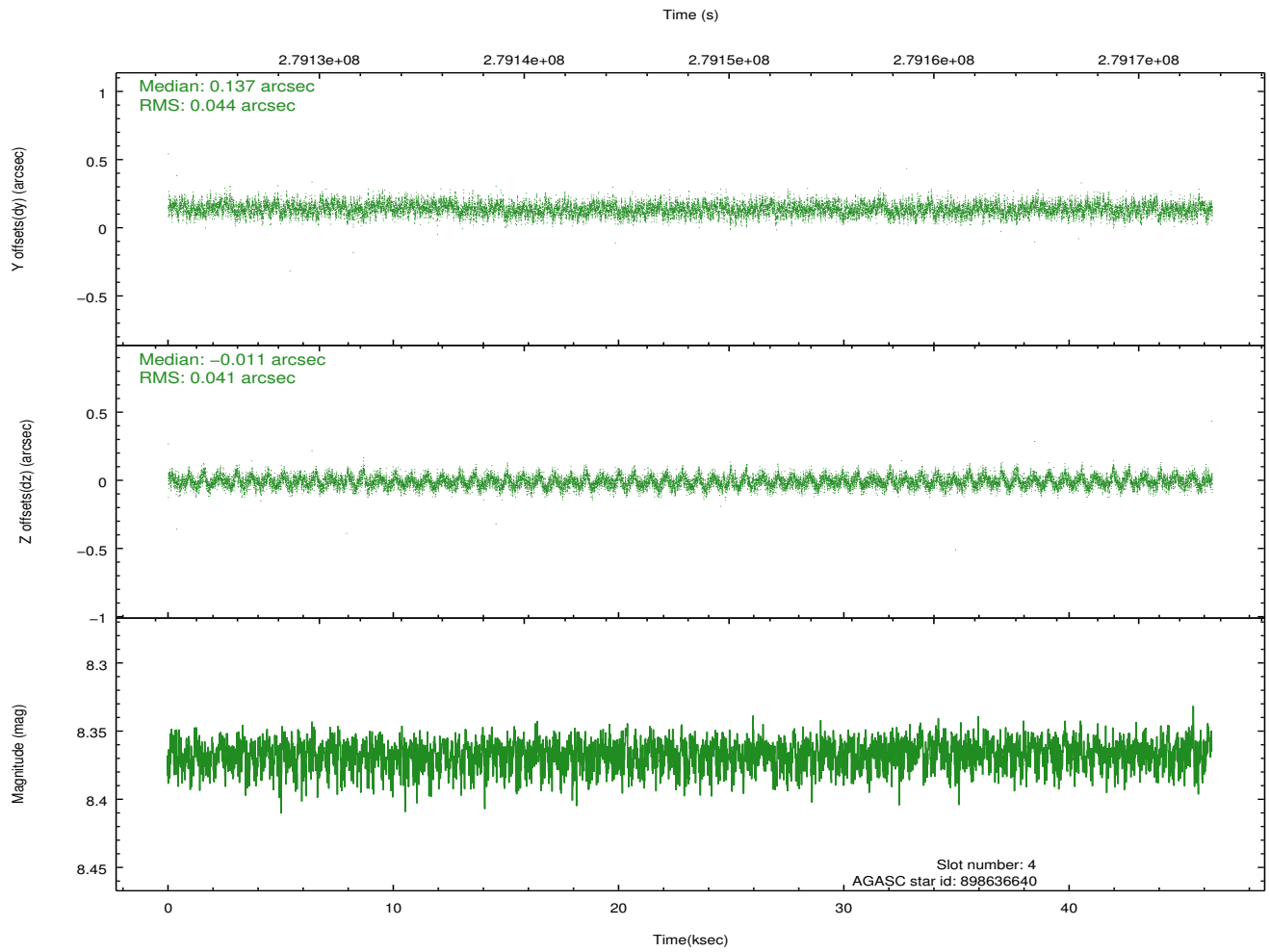
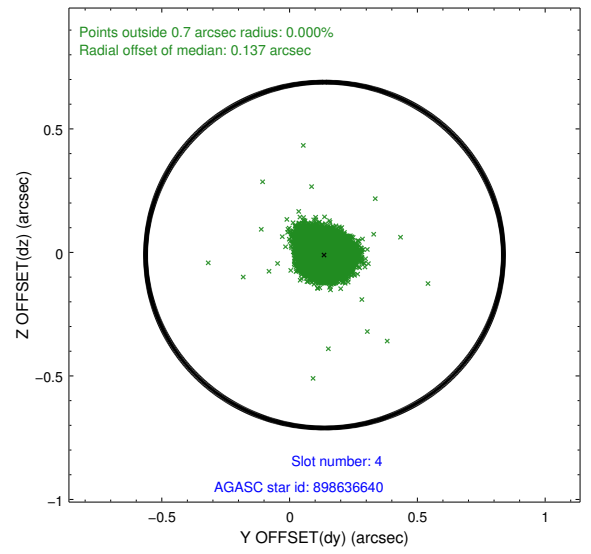
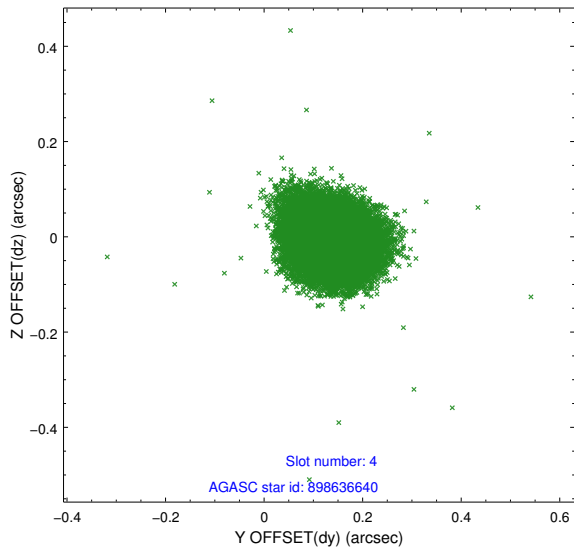
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.08	11305	-0.021	-0.078	0.013	0.027	0.000000	0.000000	-762.04	-1861.72
1	FID	ACIS-S-5	7.23	11304	-0.086	0.009	0.013	0.020	0.000000	0.000000	-1815.15	40.36
2	FID	ACIS-S-6	7.39	11304	0.081	0.074	0.011	0.019	0.000000	0.000000	399.77	684.25
3	GUIDE	898634912	8.42	22606	-0.101	0.087	0.070	0.112	275.480072	-29.835888	-1674.78	-1409.29
4	GUIDE	898636640	8.37	22606	0.137	-0.011	0.064	0.103	276.124088	-29.780374	-1980.65	588.94
5	GUIDE	900337624	9.17	22583	-0.136	0.173	0.099	0.166	276.569844	-29.732579	-2219.96	1972.51
6	GUIDE	969026752	7.47	22604	0.259	-0.144	0.080	0.134	275.318545	-30.941468	2327.65	-1685.45
7	GUIDE	969026168	6.92	22603	-0.164	-0.111	0.074	0.126	276.670048	-30.393325	142.63	2392.93

2.4 Star Slots

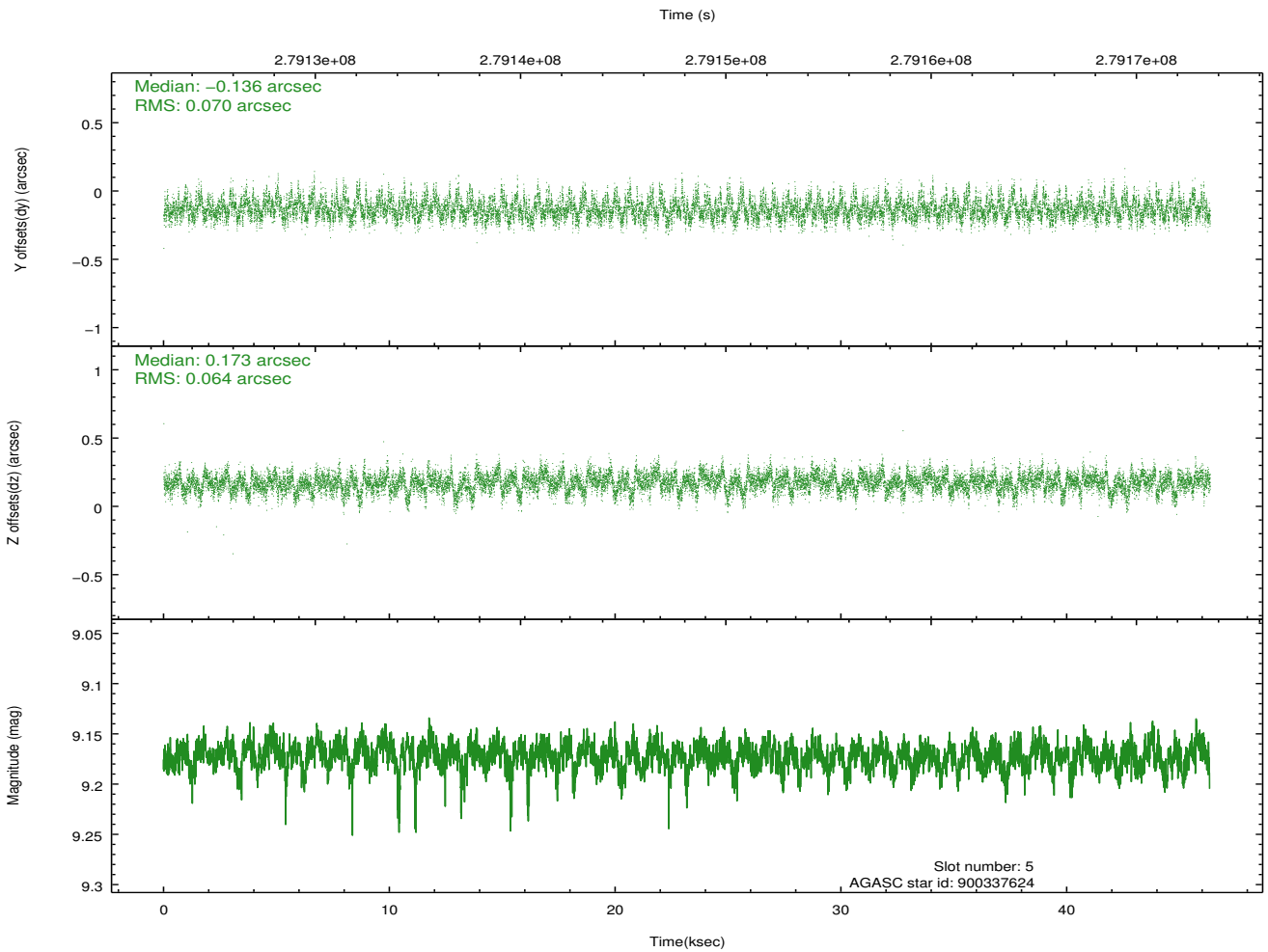
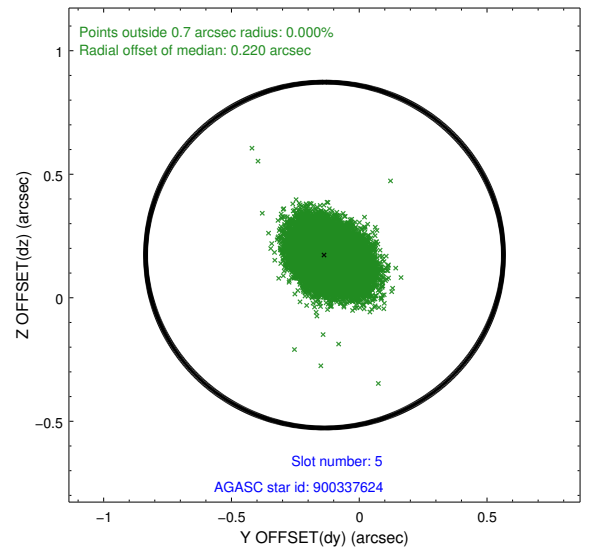
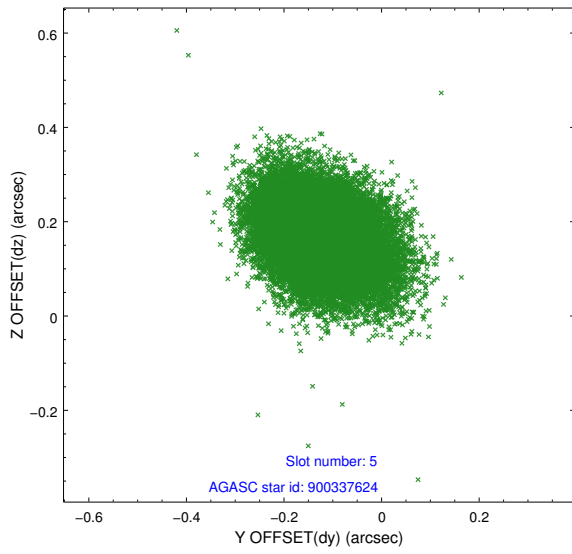
2.4.1 Slot 3



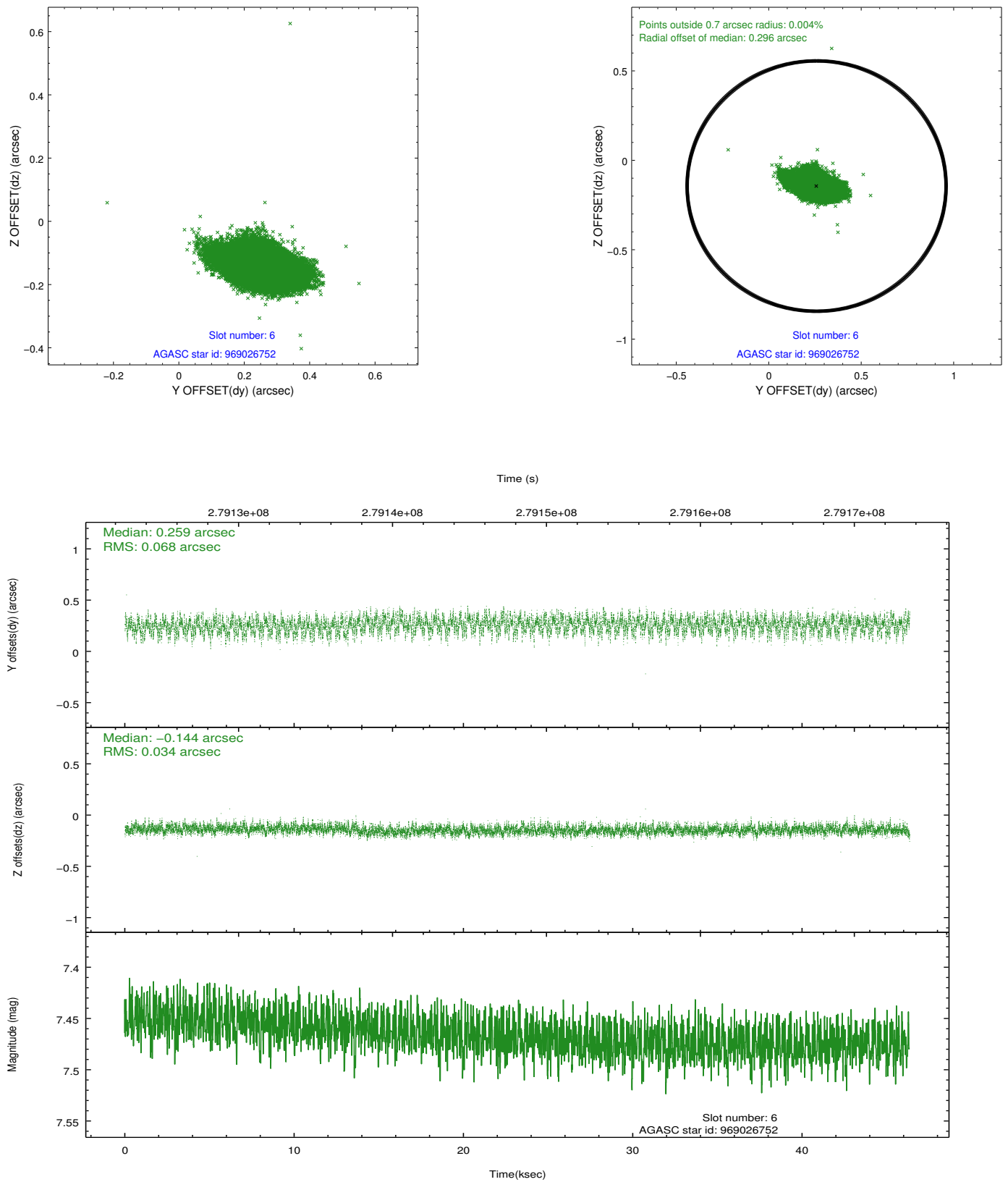
2.4.2 Slot 4



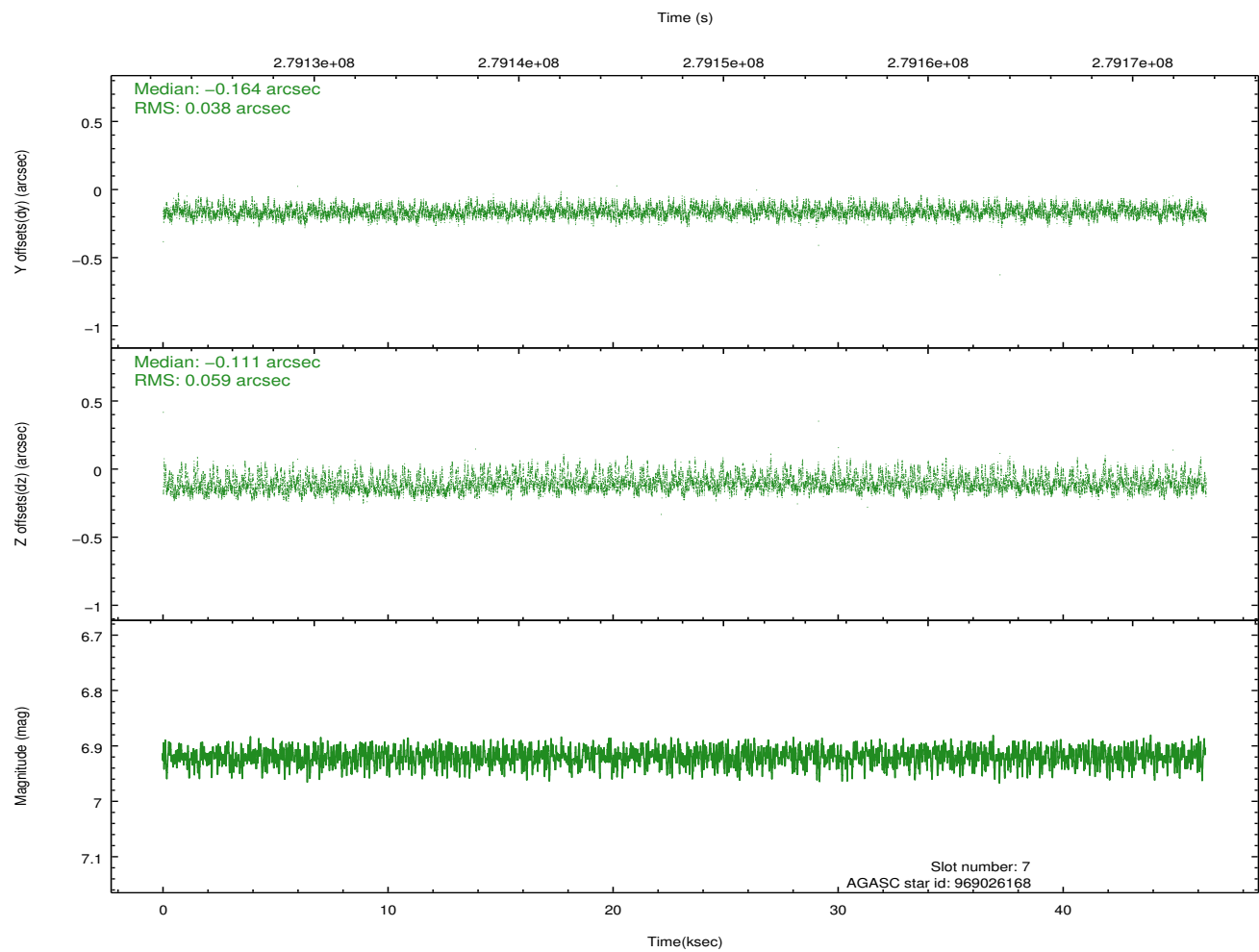
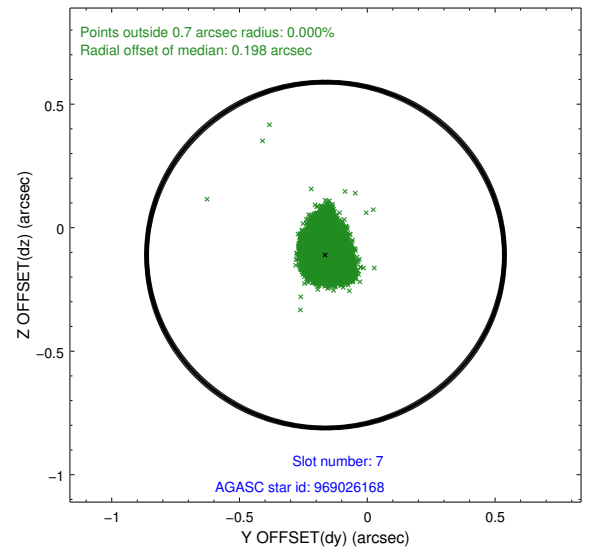
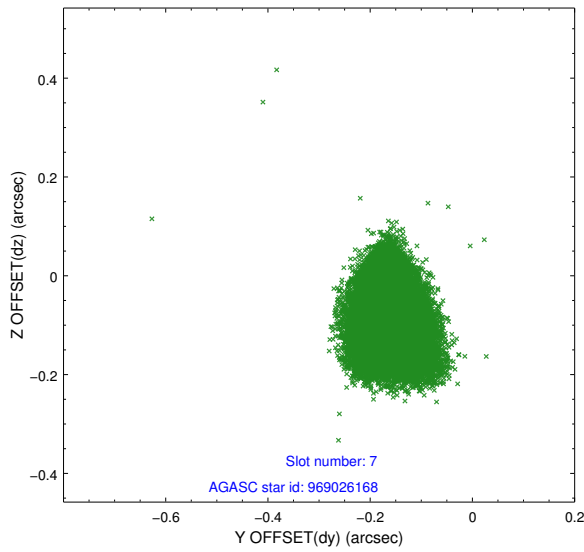
2.4.3 Slot 5



2.4.4 Slot 6

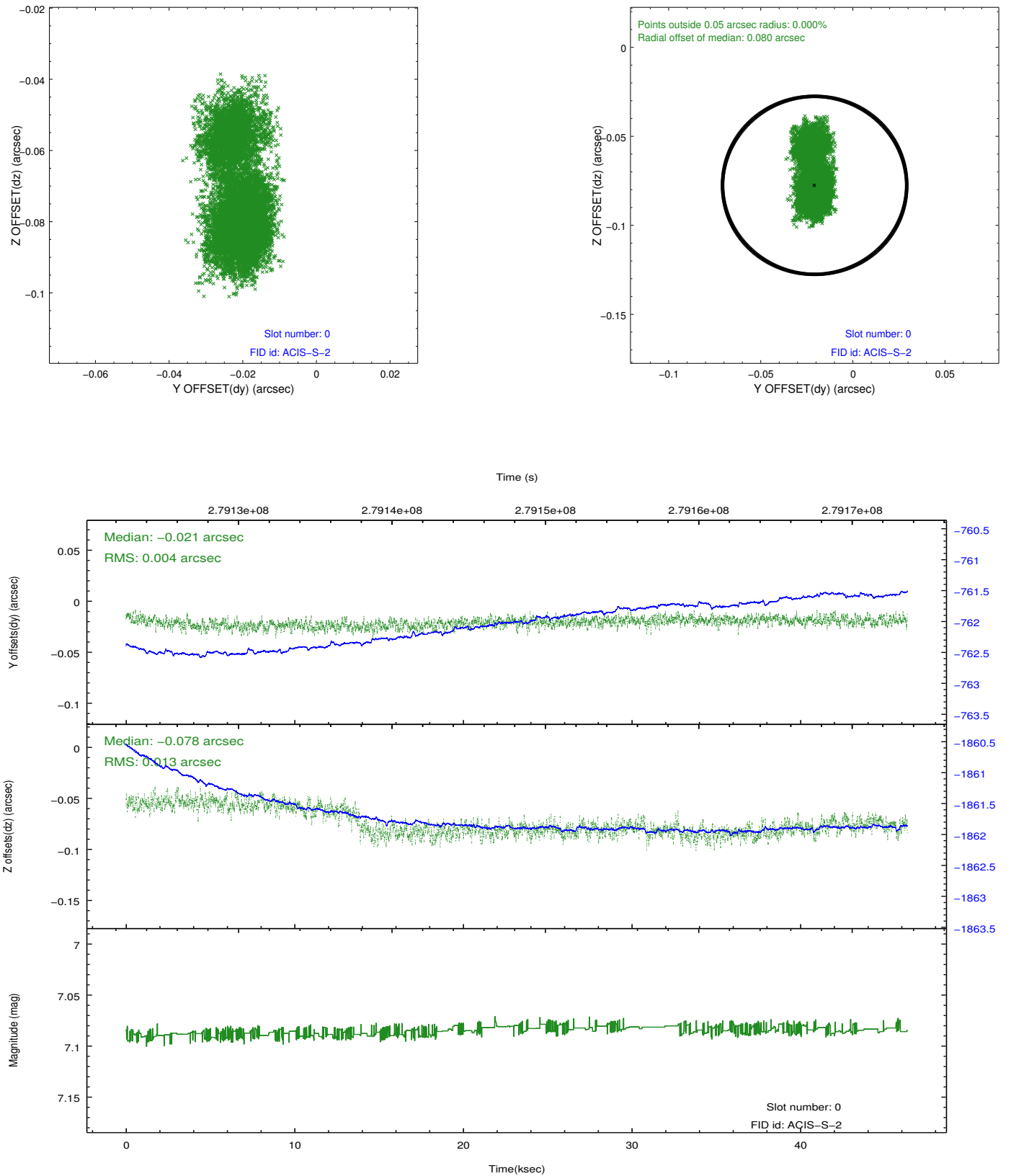


2.4.5 Slot 7

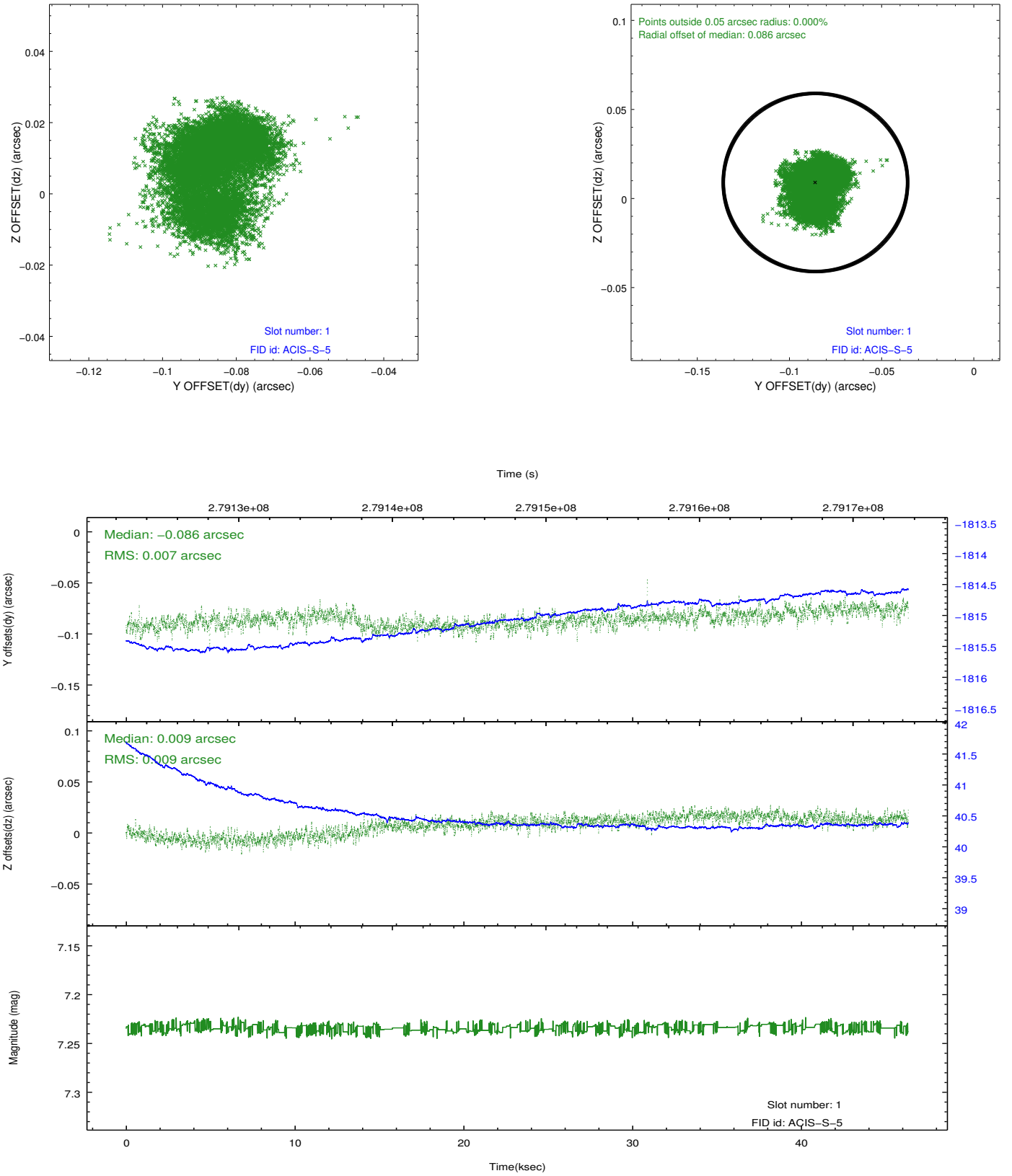


2.5 FID Slots

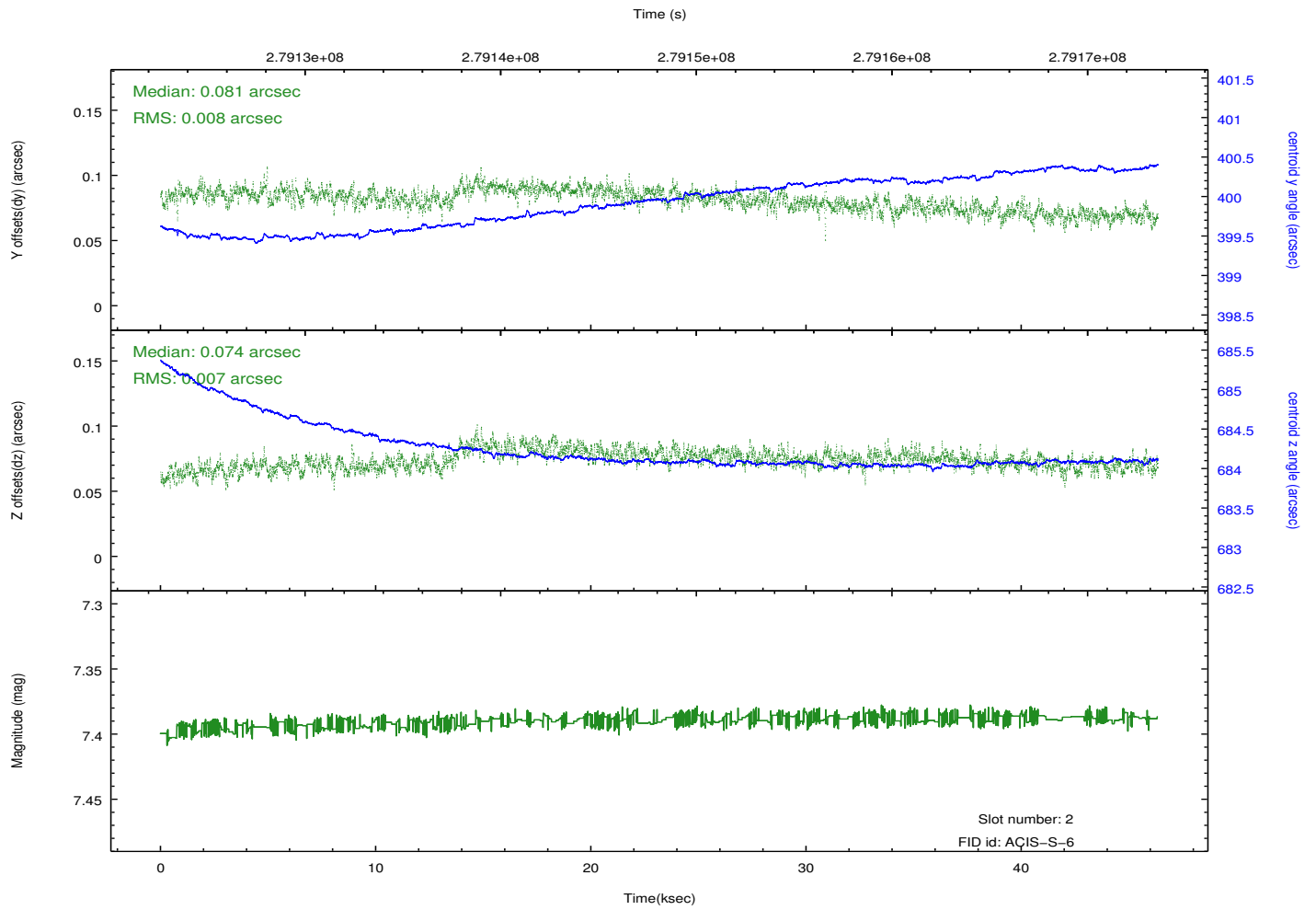
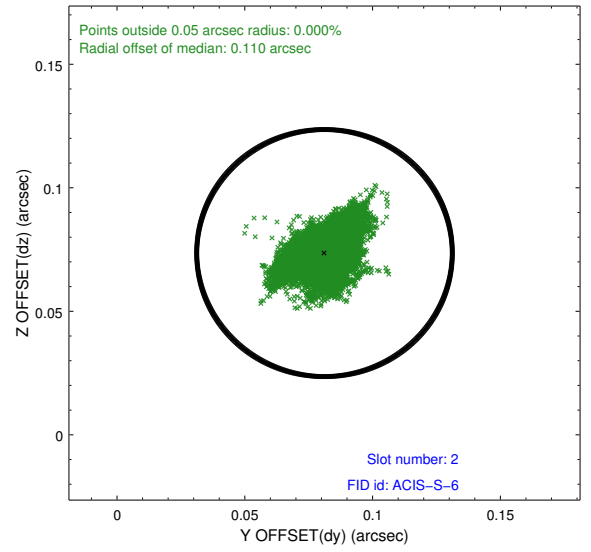
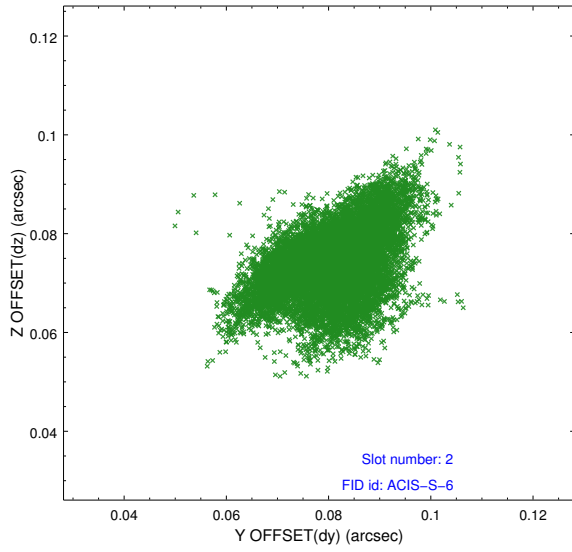
2.5.1 Slot 0



2.5.2 Slot 1

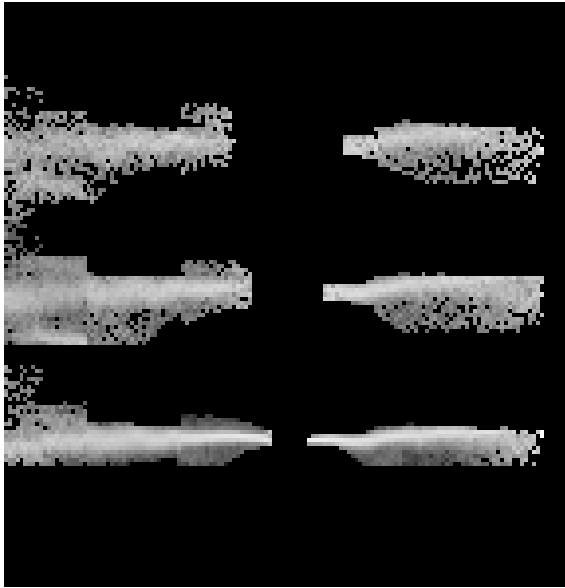


2.5.3 Slot 2



3 Gratings

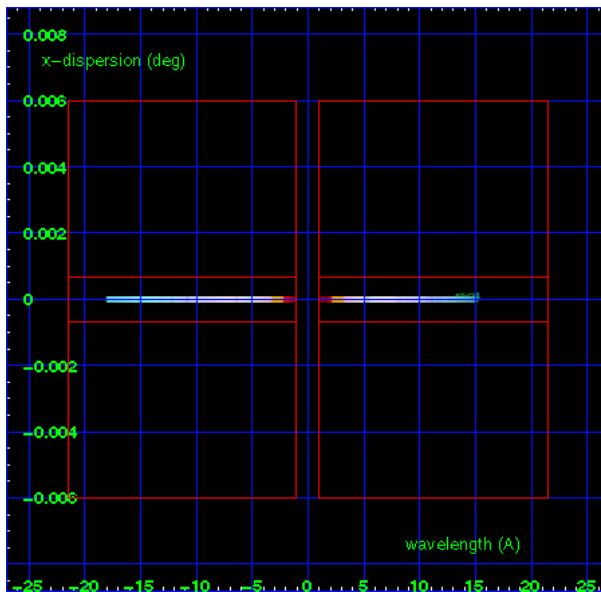
3.1 HEG Arm



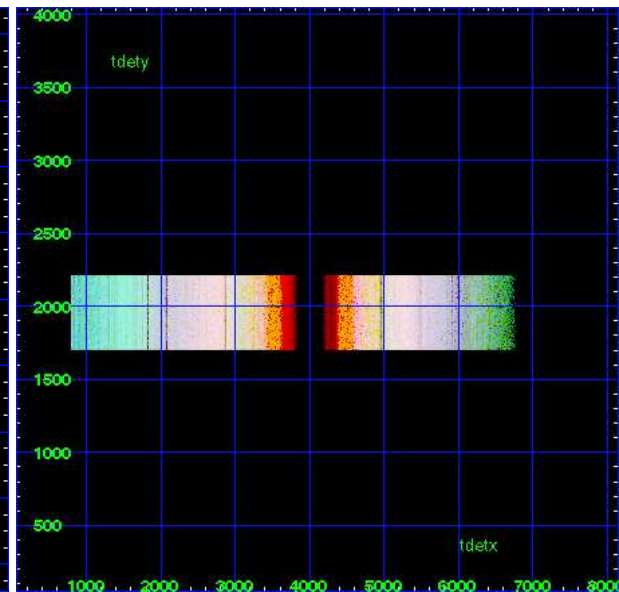
HEG Order Sort 123



HEG Order Sort ALL

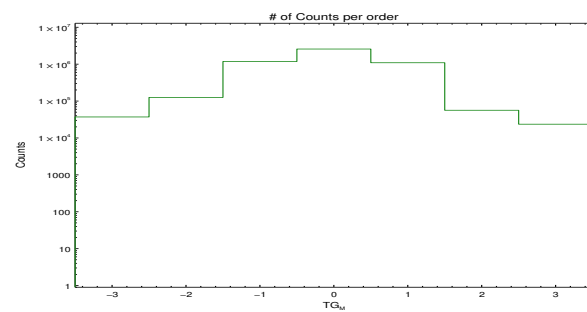


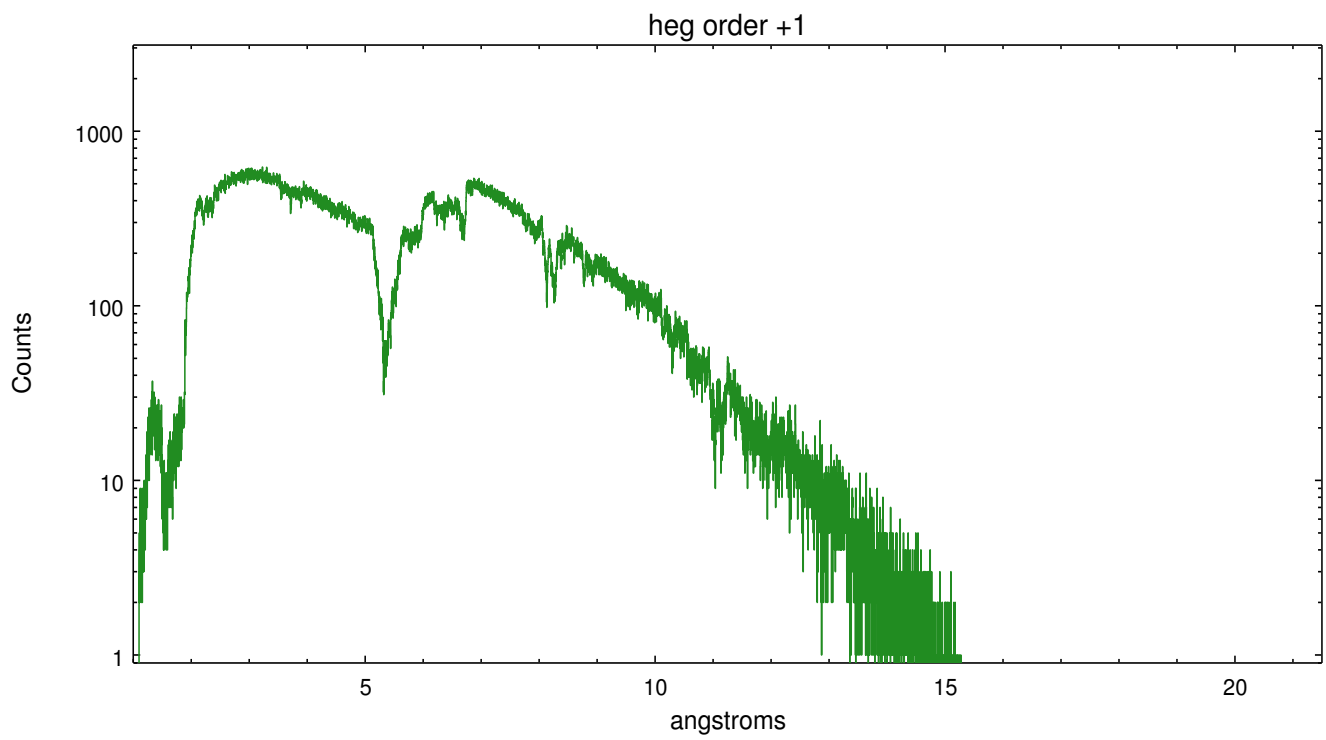
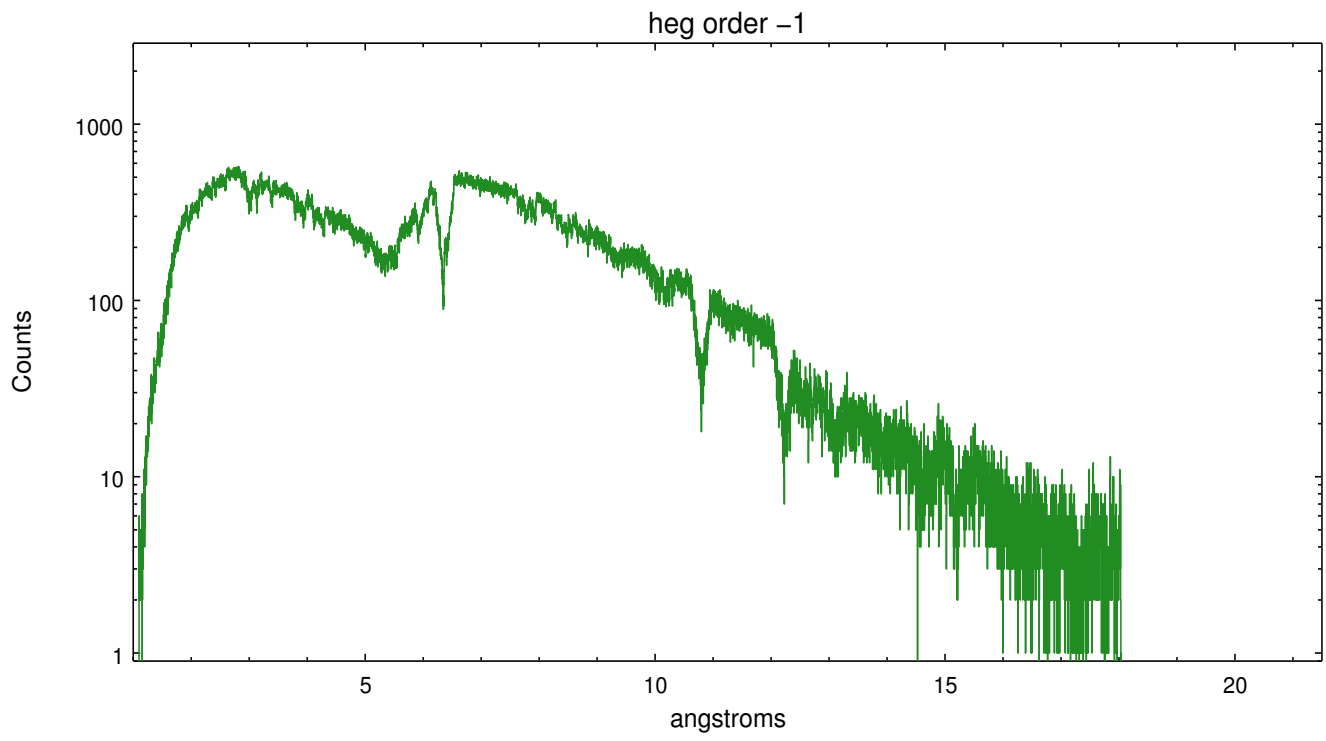
Spot Image HEG



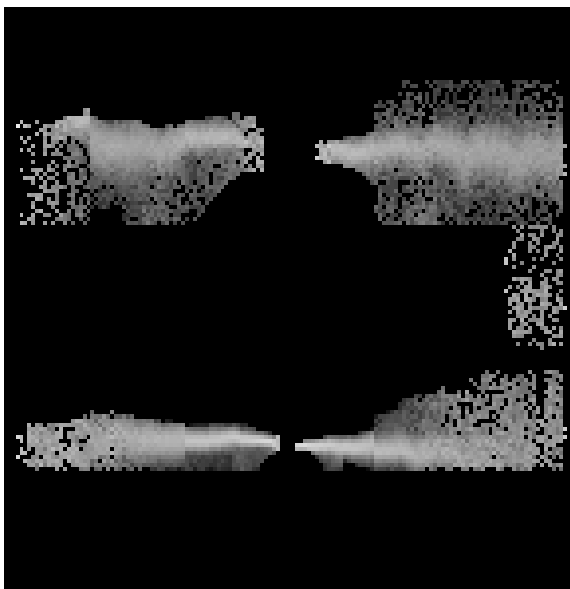
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	37128	125671	1183053	2572112	1094687	56296	23592

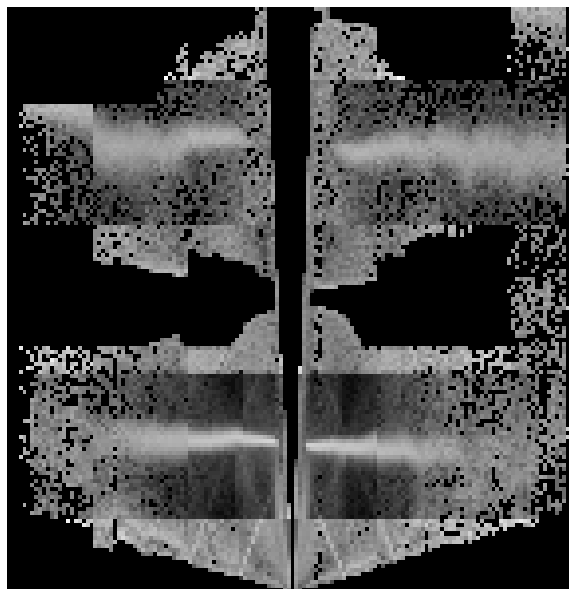




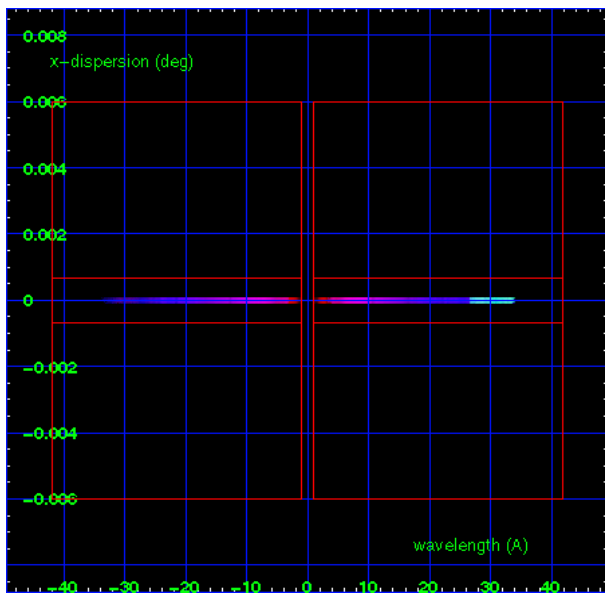
3.2 MEG Arm



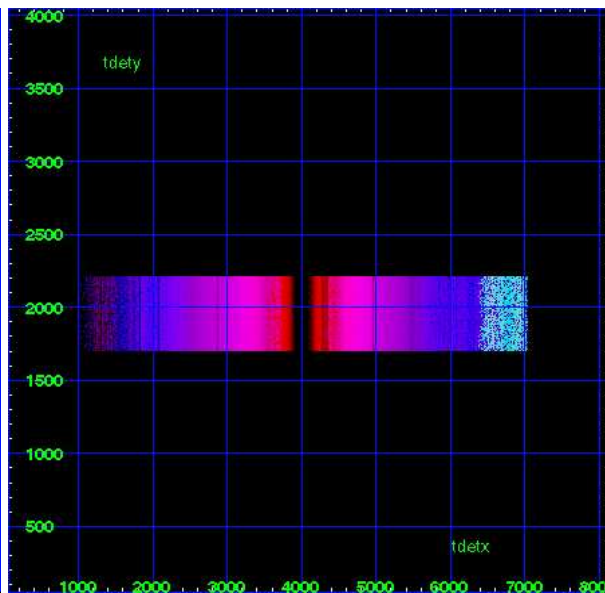
MEG Order Sort 123



MEG Order Sort ALL

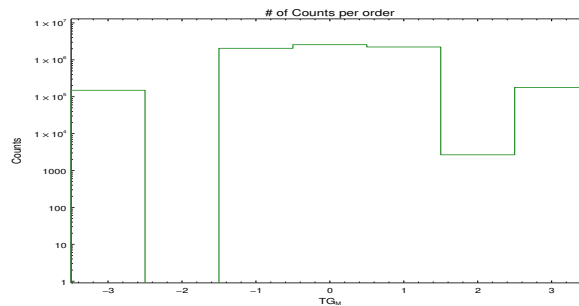


Spot Image MEG

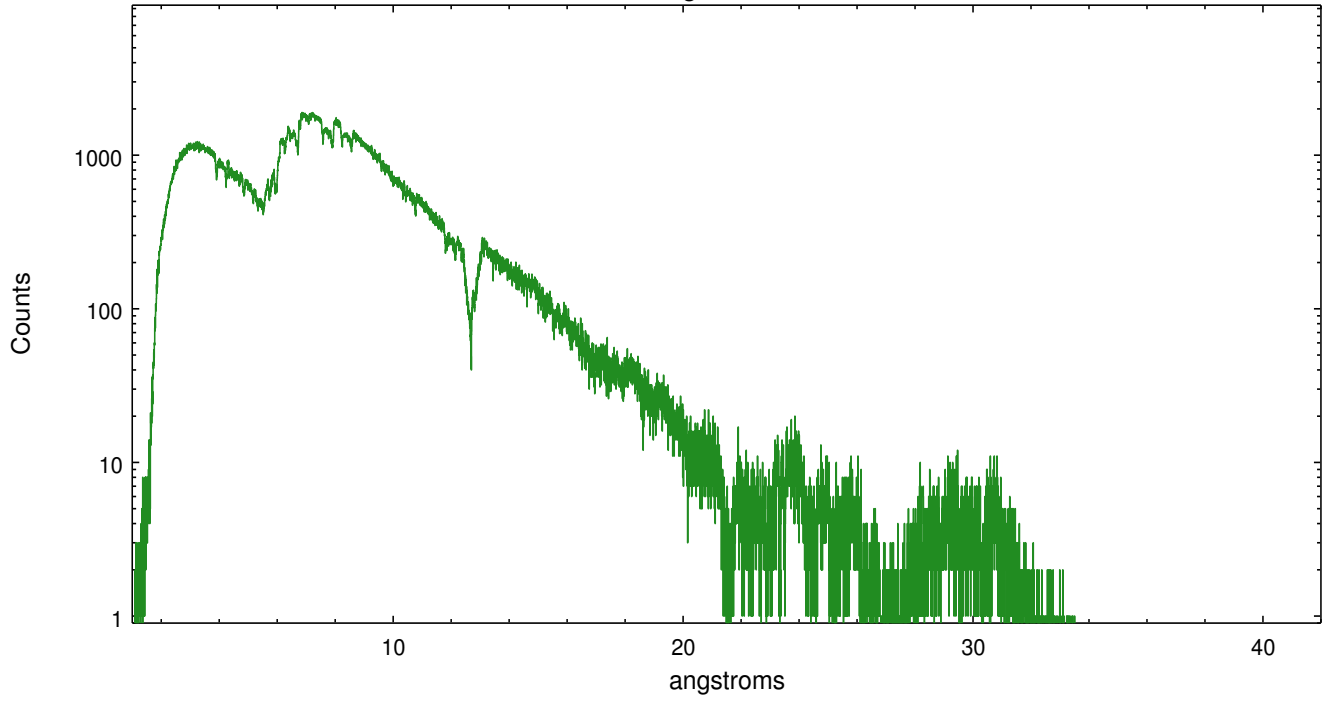


Full Detector MEG

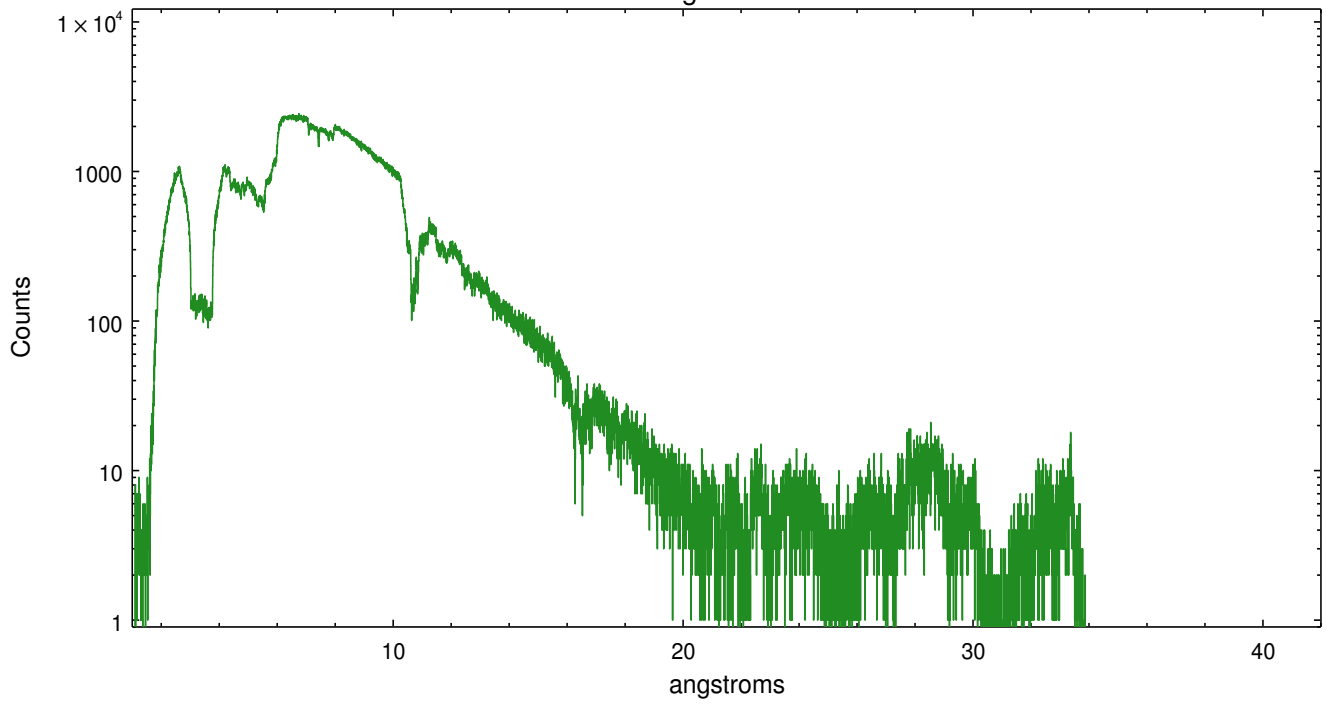
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	149521	0	2049418	2572112	2227360	2663	178536



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.04.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.34375

A.2 Comments