

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3803 - L2 Version 4
Chandra X-Ray Center

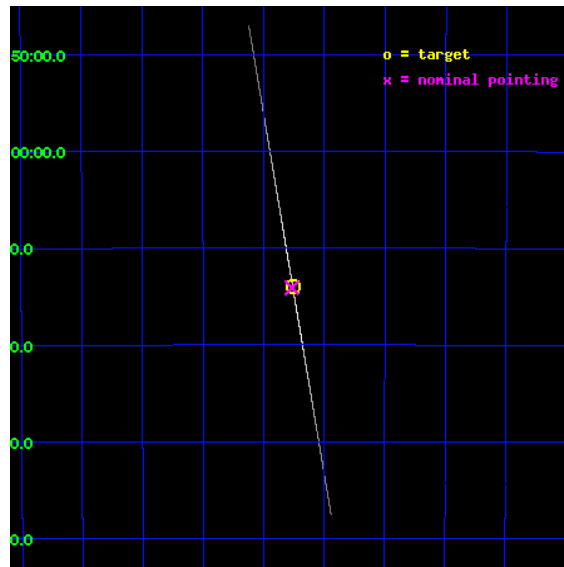
L2 Processing Date : Oct 29 2012

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1 Front

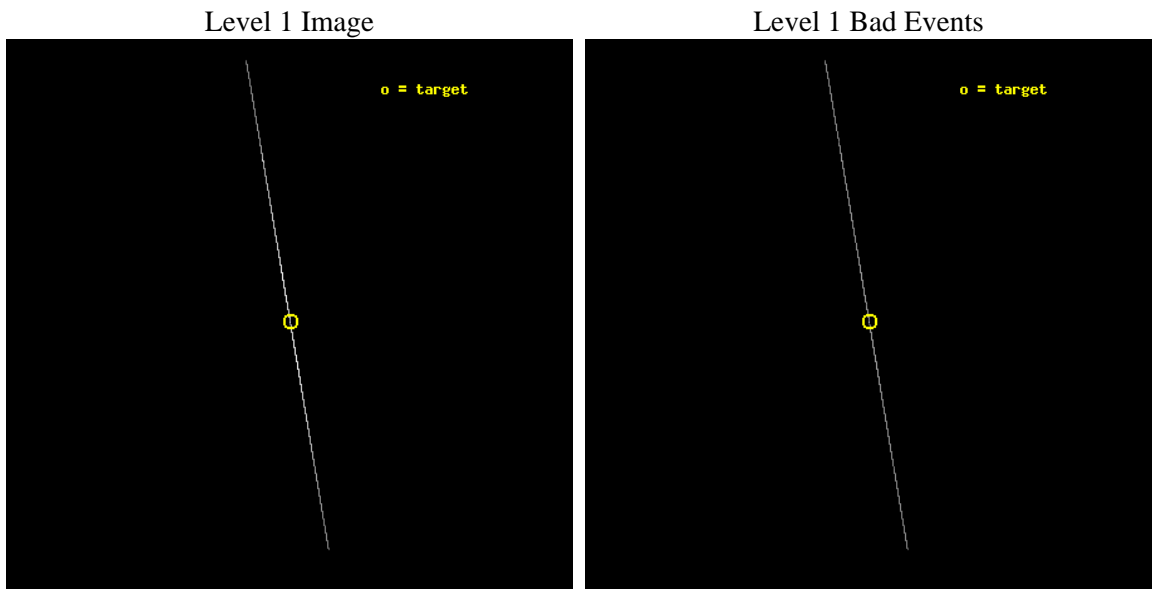
seq_num	400290	Sequence number
obs_id	3803	Observation id
title	DIAGNOSING THE ACCRETION FLOW GEOMETRY OF A GALACTIC BLACK HOLE IN OUTBURST WITH CHANDRA	Proposal title
observer	Prof. Walter Lewin	Principal investigator
object	H 1743-322	Source name
ra_targ	266.565033	Observer's specified target RA [deg]
dec_targ	-32.2335	Observer's specified target Dec [deg]
ra_nom	266.56666991022	Nominal RA [deg]
dec_nom	-32.23525388292	Nominal Dec [deg]
roll_nom	80.294416239627	Nominal Roll [deg]
revision	4	Processing version of data
ontime	46716.262294173	Sum of GTIs [s]
livetime	46533.776894587	Livetime [s]
ontime4	48870.0	Sum of GTIs [s]
ontime5	48870.0	Sum of GTIs [s]
ontime6	48524.160090595	Sum of GTIs [s]
ontime7	46716.262294173	Sum of GTIs [s]
ontime8	48870.0	Sum of GTIs [s]
ontime9	48870.0	Sum of GTIs [s]
l2events	16364597	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	48800.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	46716.262294173	Sum of GTIs [s]
caldbver	4.5.2	 	ontime4	48870.0	Sum of GTIs [s]
date	2012-10-27T17:50:31	Date and time of file creation	ontime5	48870.0	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	48524.160090595	Sum of GTIs [s]
			ontime7	46716.262294173	Sum of GTIs [s]
			ontime8	48870.0	Sum of GTIs [s]
			ontime9	48870.0	Sum of GTIs [s]
			l1events	17946179	Number of level 1 events

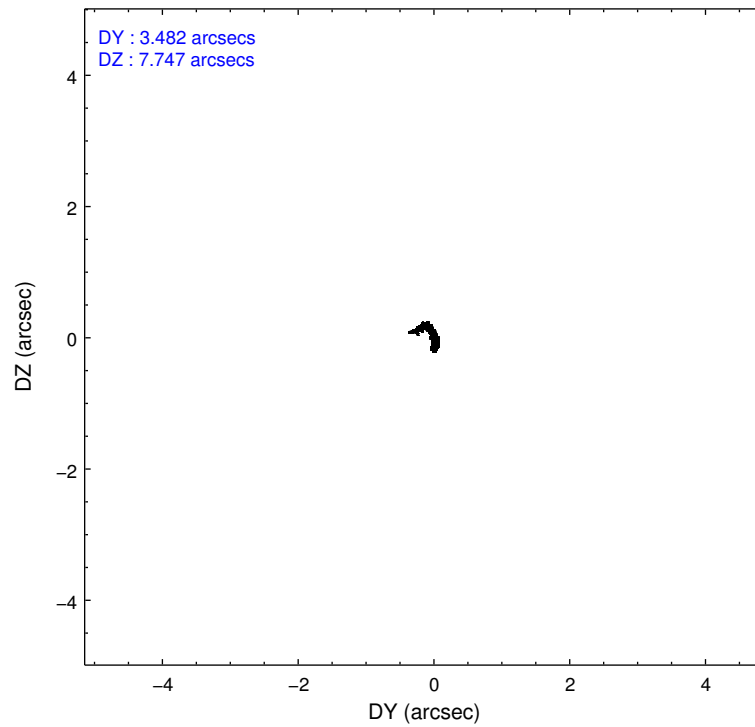
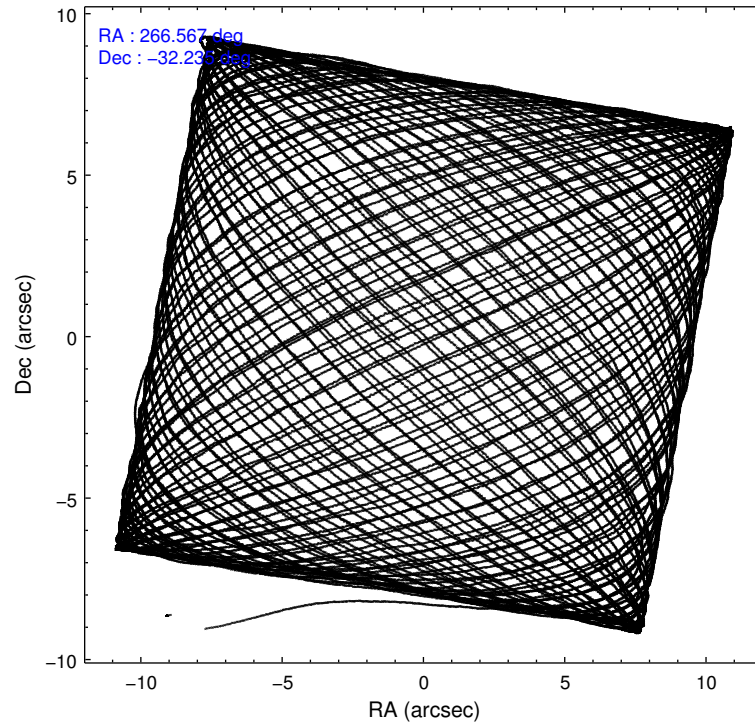
2.1.3 Events

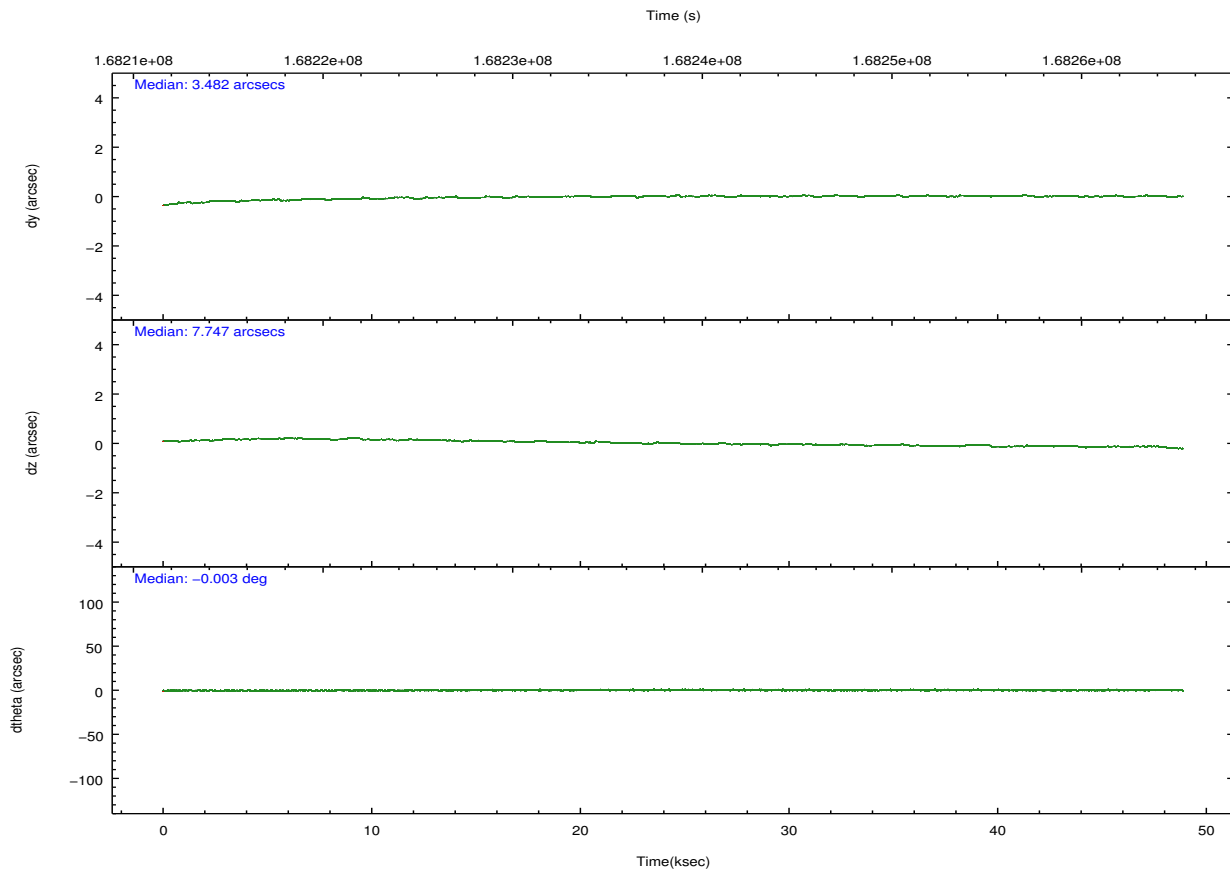
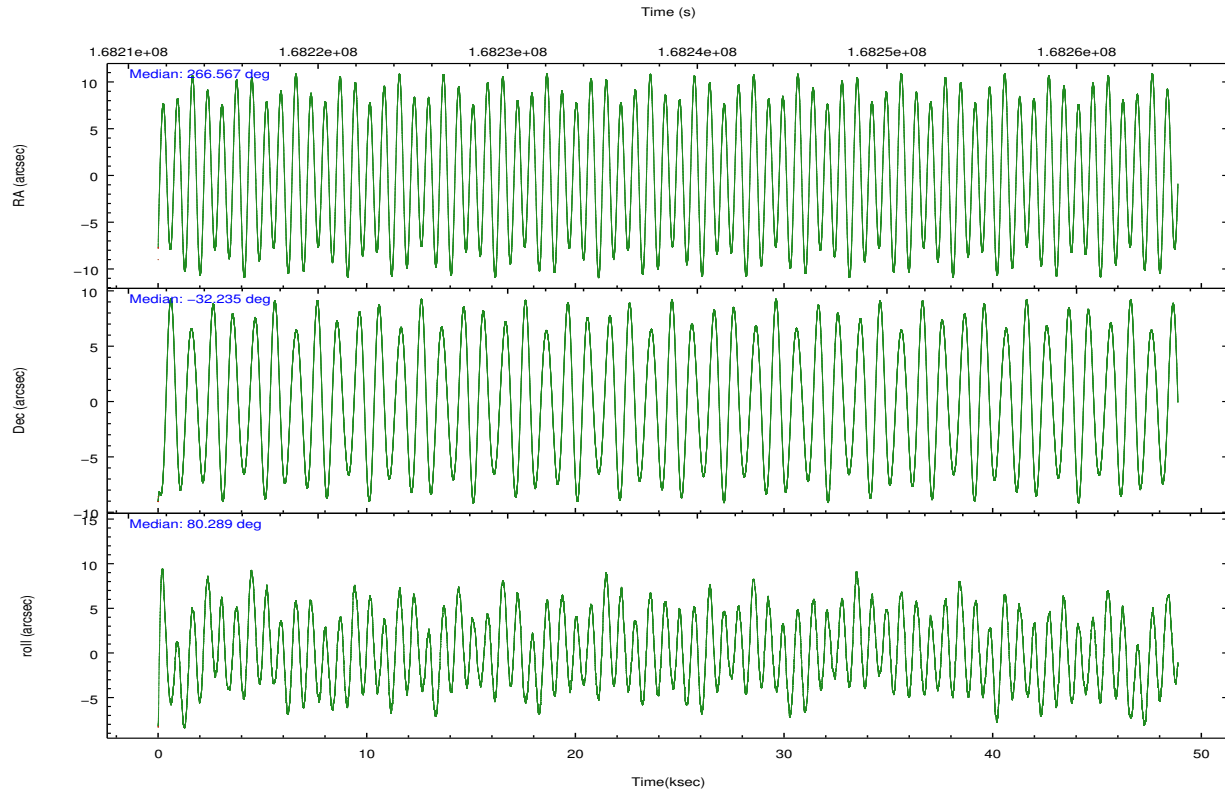
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	259985	1319972	6472840	7625943	1927548	339891	grade 0 events	16705	277035	1496542	1281415	1074649	42580
rejected events	51260	85350	118157	178206	76542	55461		6%	20%	23%	16%	55%	12%
rejected %	19%	6%	1%	2%	3%	16%	grade 1 events	209	493	5312	7832	3378	302
								0%	0%	0%	0%	0%	0%
							grade 2 events	184260	519913	4192232	2174907	611208	227002
								70%	39%	64%	28%	31%	66%
							grade 3 events	8062	51585	80940	715610	56505	8409
								3%	3%	1%	9%	2%	2%
							grade 4 events	8205	50634	81276	708790	56985	8821
								3%	3%	1%	9%	2%	2%
							grade 5 events	11265	35714	47202	100771	23679	13815
								4%	2%	0%	1%	1%	4%
							grade 6 events	31279	384598	569336	2636618	101144	38962
								12%	29%	8%	34%	5%	11%
							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	266.578262	266.5666699102212	Subarray requested	NONE	NONE
[deg] Pointing Dec	-32.260650	-32.23525388292042	Alternating exposures requested	N	N
[deg] Pointing Roll	80.143977	80.29441623962748	[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	-182.6373491900168			
[mm] SIM translation stage offset	-7.5	-7.495173392990978			
[s] Observation start time (MET)	168214095.184000	168212463.60667			
Observation start date	2003-05-01T22:07:11	2003-05-01T21:41:03			
[s] Observation end time (MET)	168262895.184000	168263840.19635			
Observation end date	2003-05-02T11:40:31	2003-05-02T11:57:20			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect



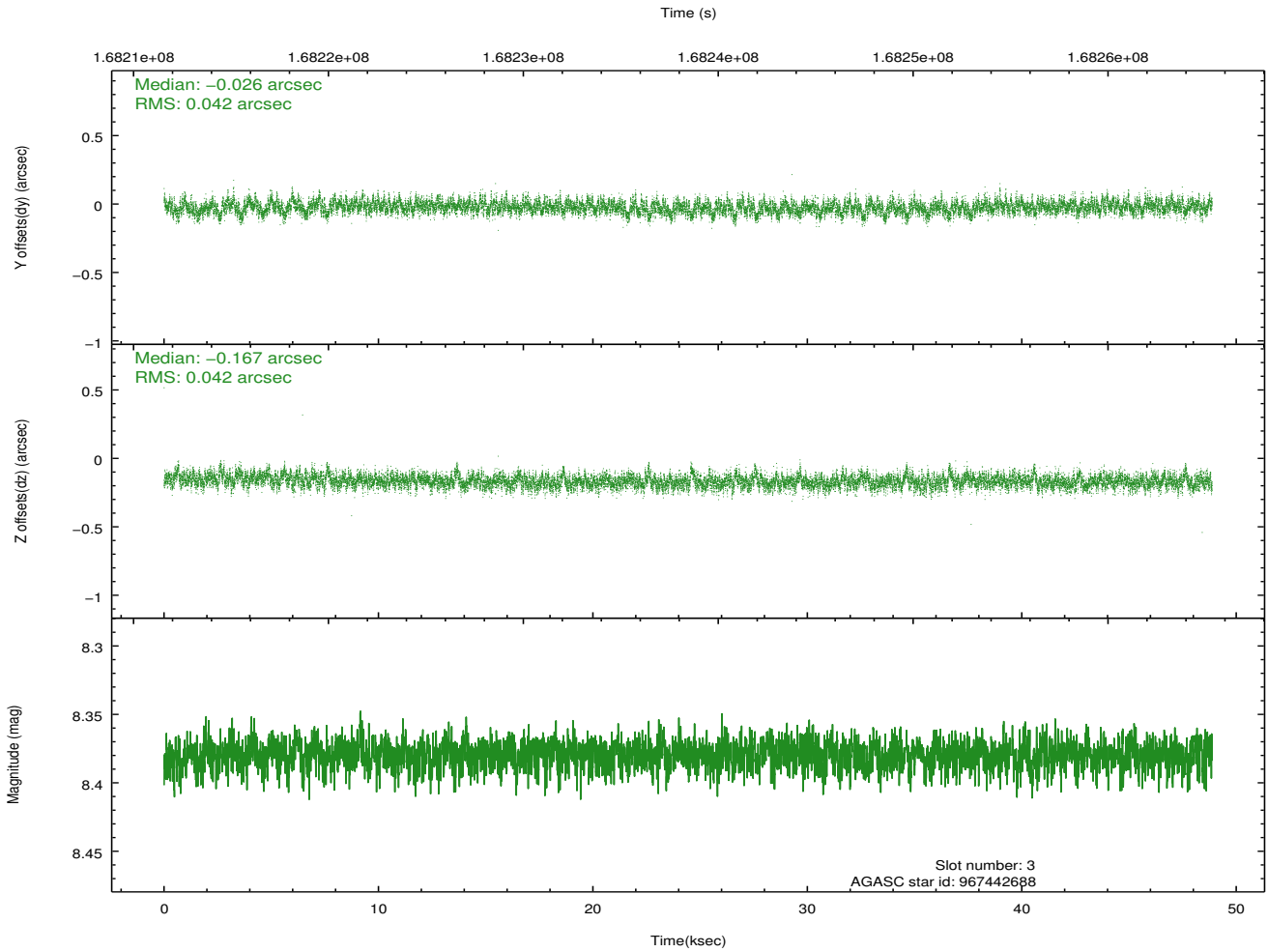
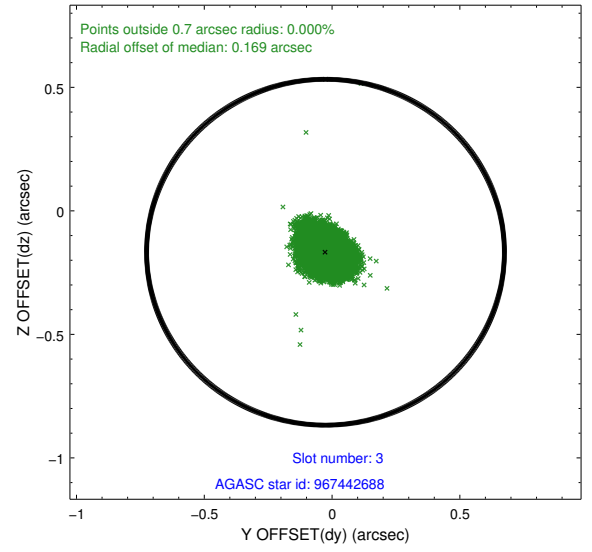
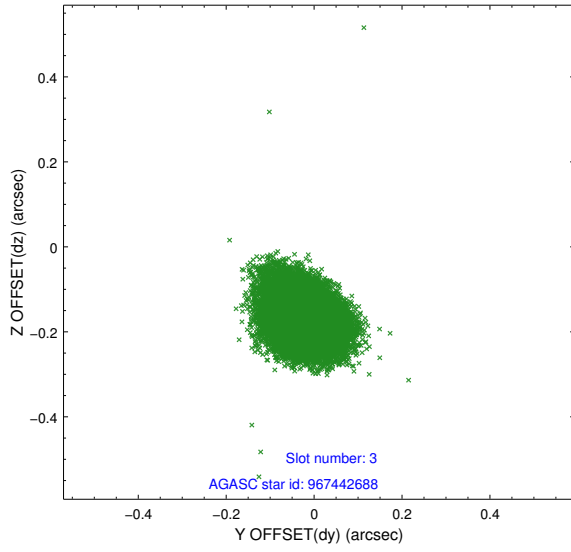


Slot Statistics

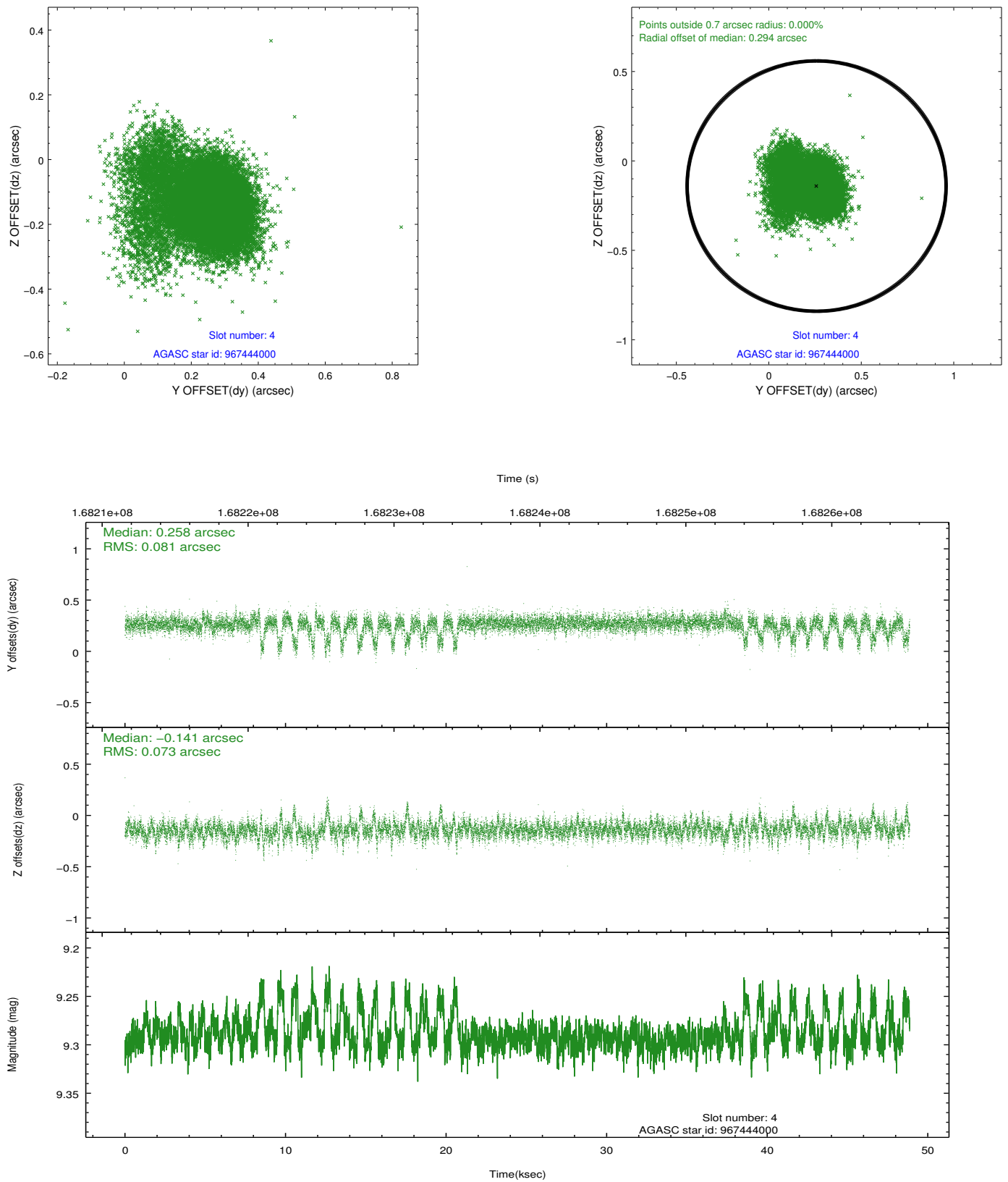
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	11920	-0.040	-0.108	0.009	0.021	0.000000	0.000000	-755.66	-1883.46
1	FID	ACIS-S-4	7.18	11920	0.014	0.048	0.007	0.030	0.000000	0.000000	2157.73	25.10
2	FID	ACIS-S-5	7.23	11921	-0.006	0.068	0.009	0.022	0.000000	0.000000	-1808.44	18.87
3	GUIDE	967442688	8.38	23837	-0.026	-0.167	0.062	0.102	266.096113	-32.373763	-655.39	1373.91
4	GUIDE	967444000	9.29	23806	0.258	-0.141	0.100	0.224	266.327670	-32.824762	-2131.14	398.96
5	GUIDE	966927176	8.99	23831	-0.169	-0.252	0.085	0.134	265.946853	-31.673679	1744.94	2266.78
6	GUIDE	967447616	9.28	23825	0.058	0.321	0.110	0.176	267.260141	-32.889782	-1884.67	-2419.46
7	GUIDE	967451816	9.28	23827	-0.109	0.235	0.099	0.169	267.266669	-31.901374	1627.86	-1852.38

2.4 Star Slots

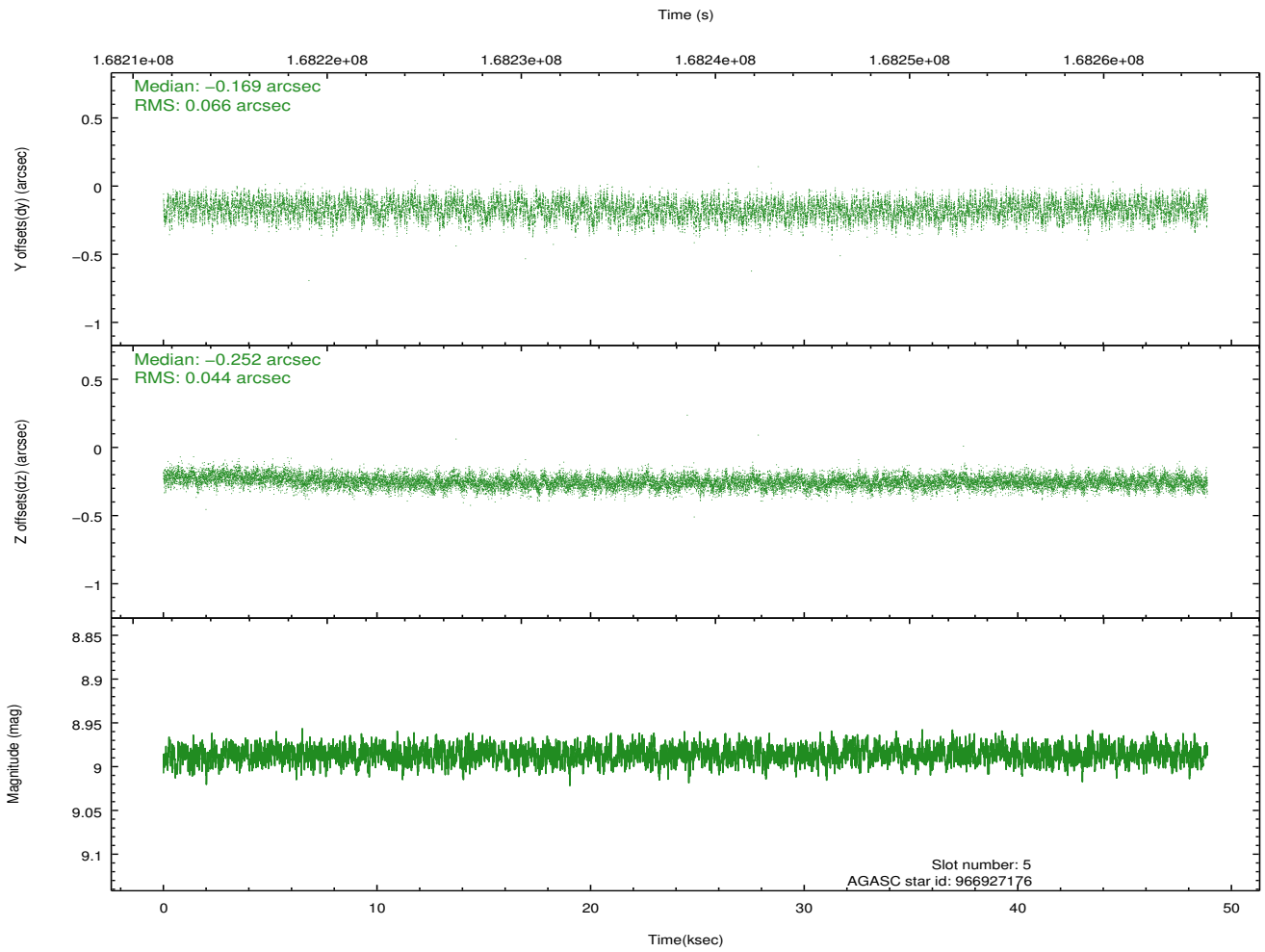
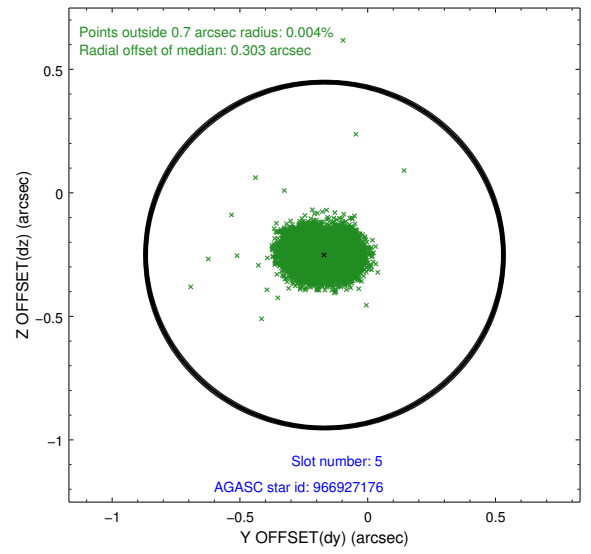
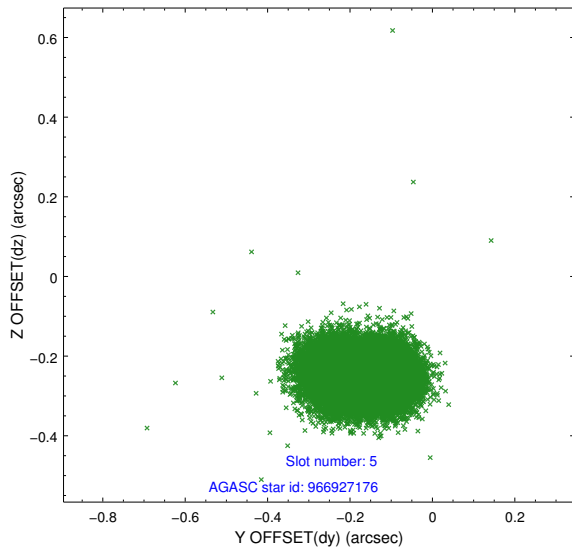
2.4.1 Slot 3



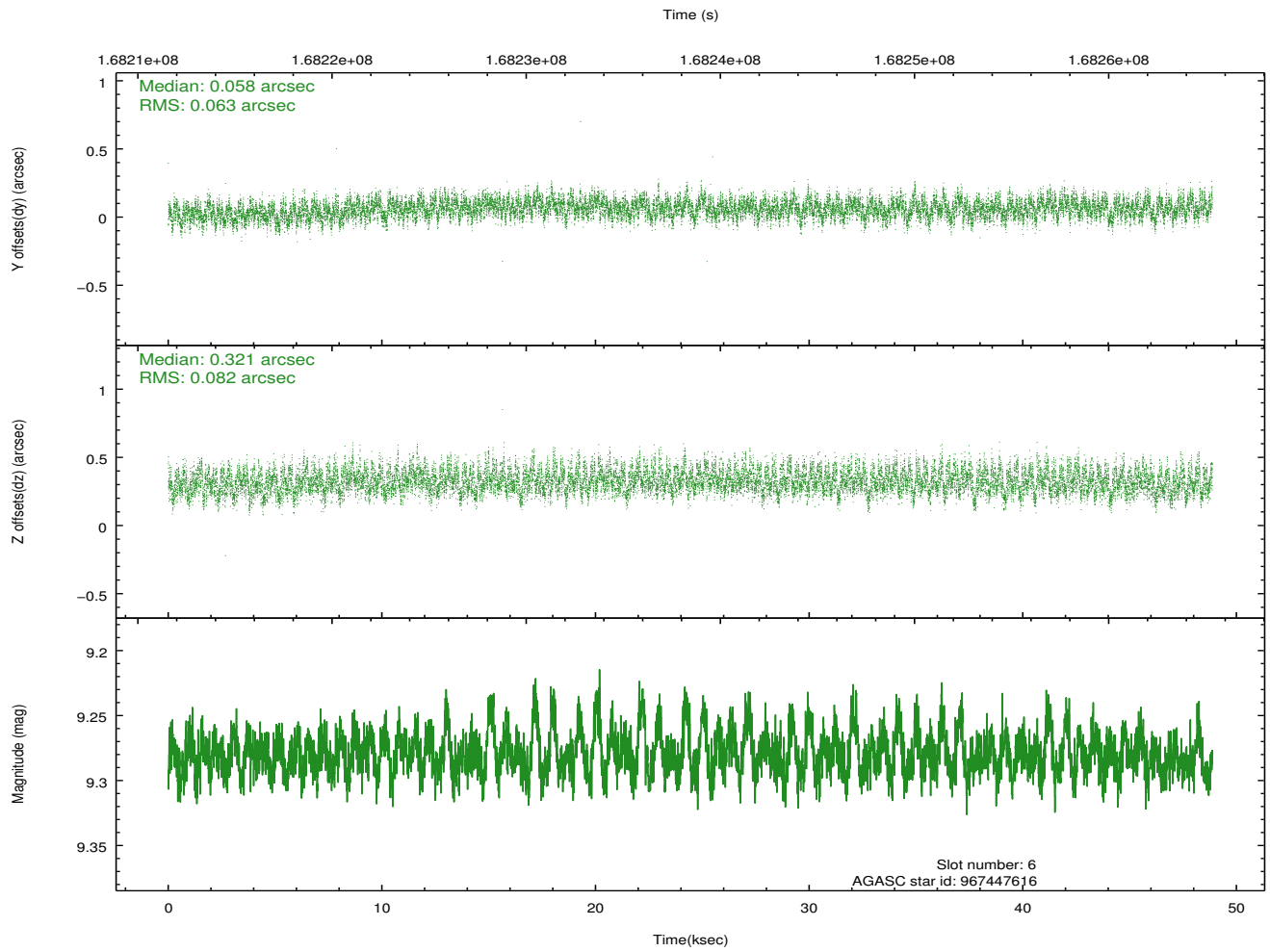
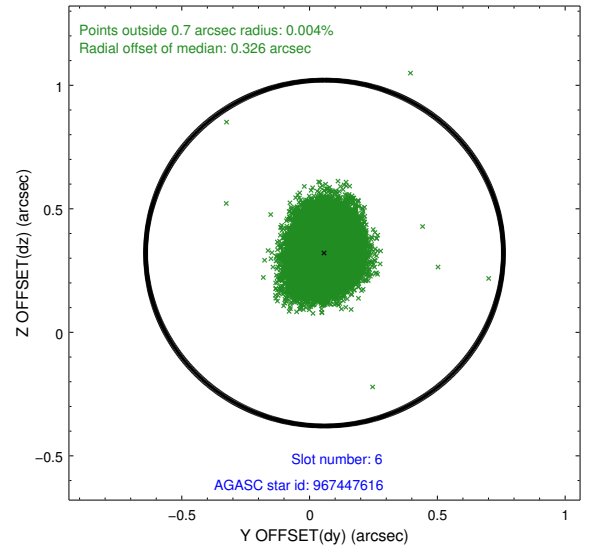
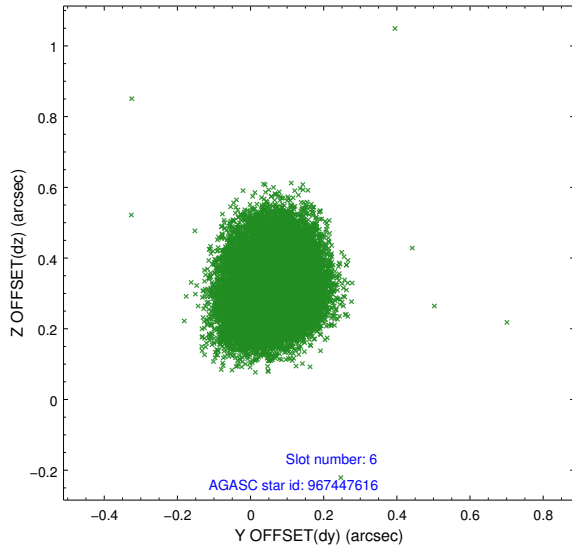
2.4.2 Slot 4



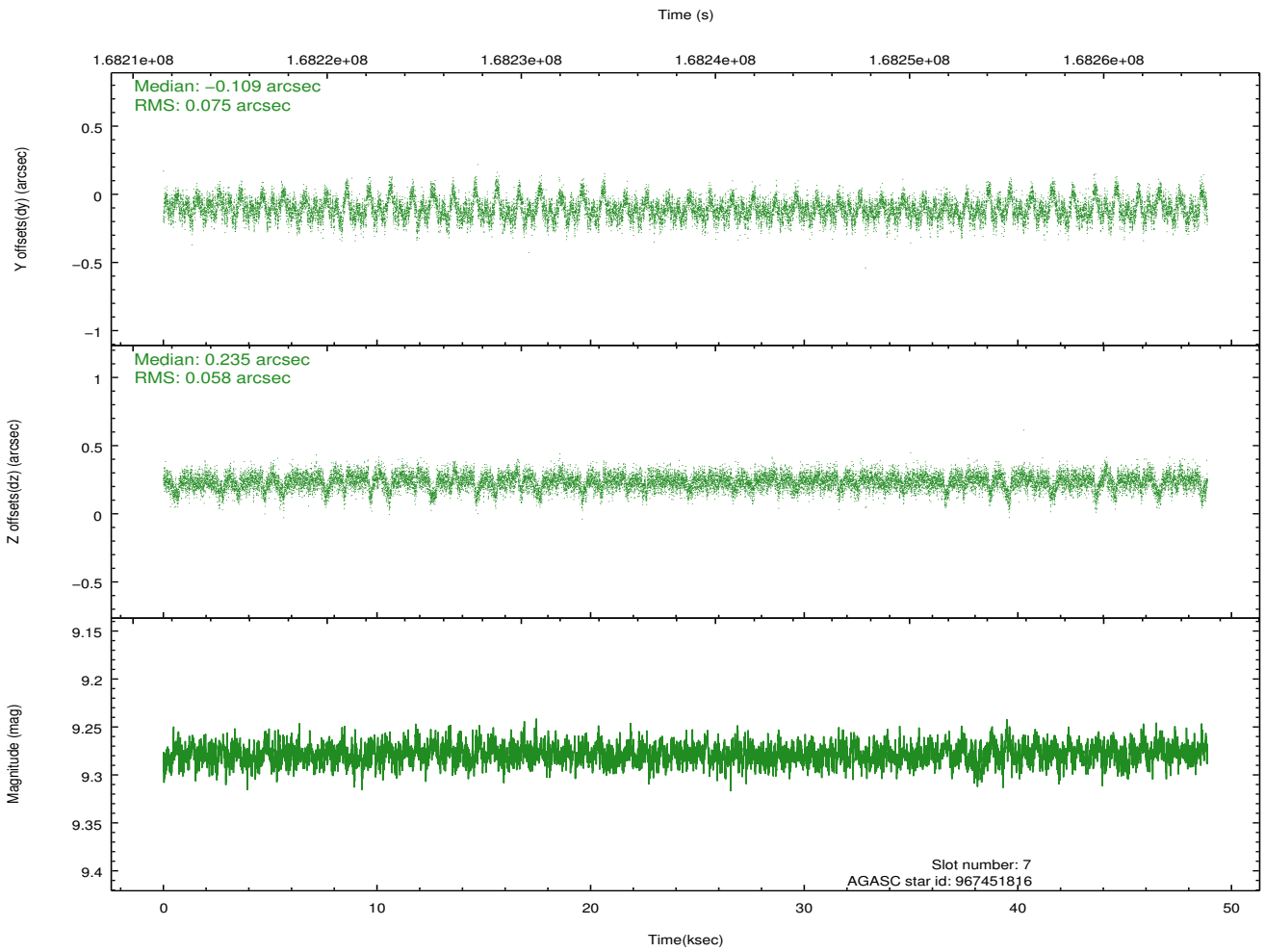
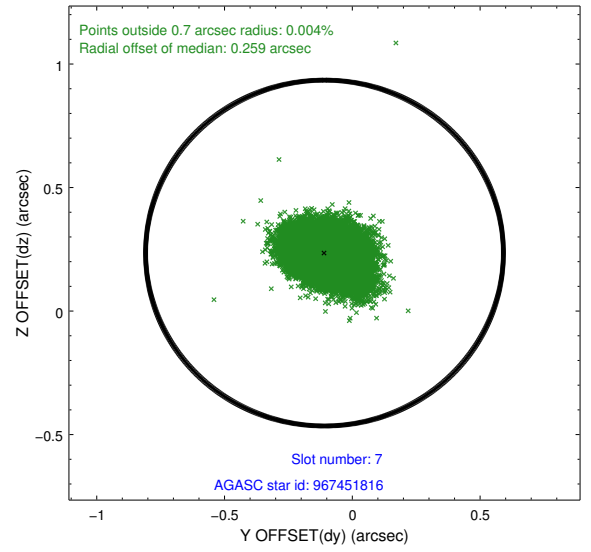
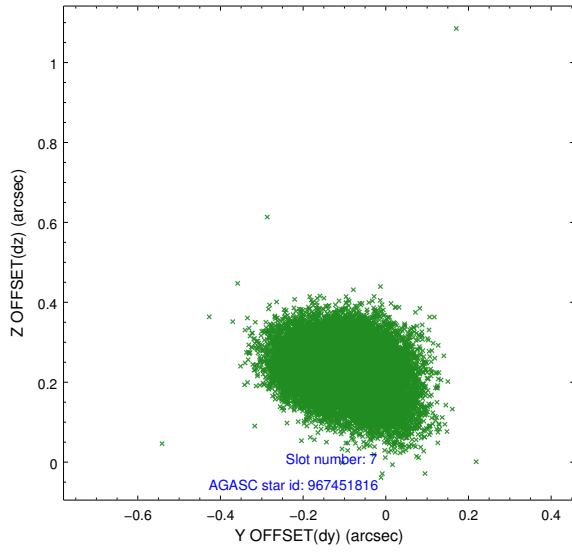
2.4.3 Slot 5



2.4.4 Slot 6

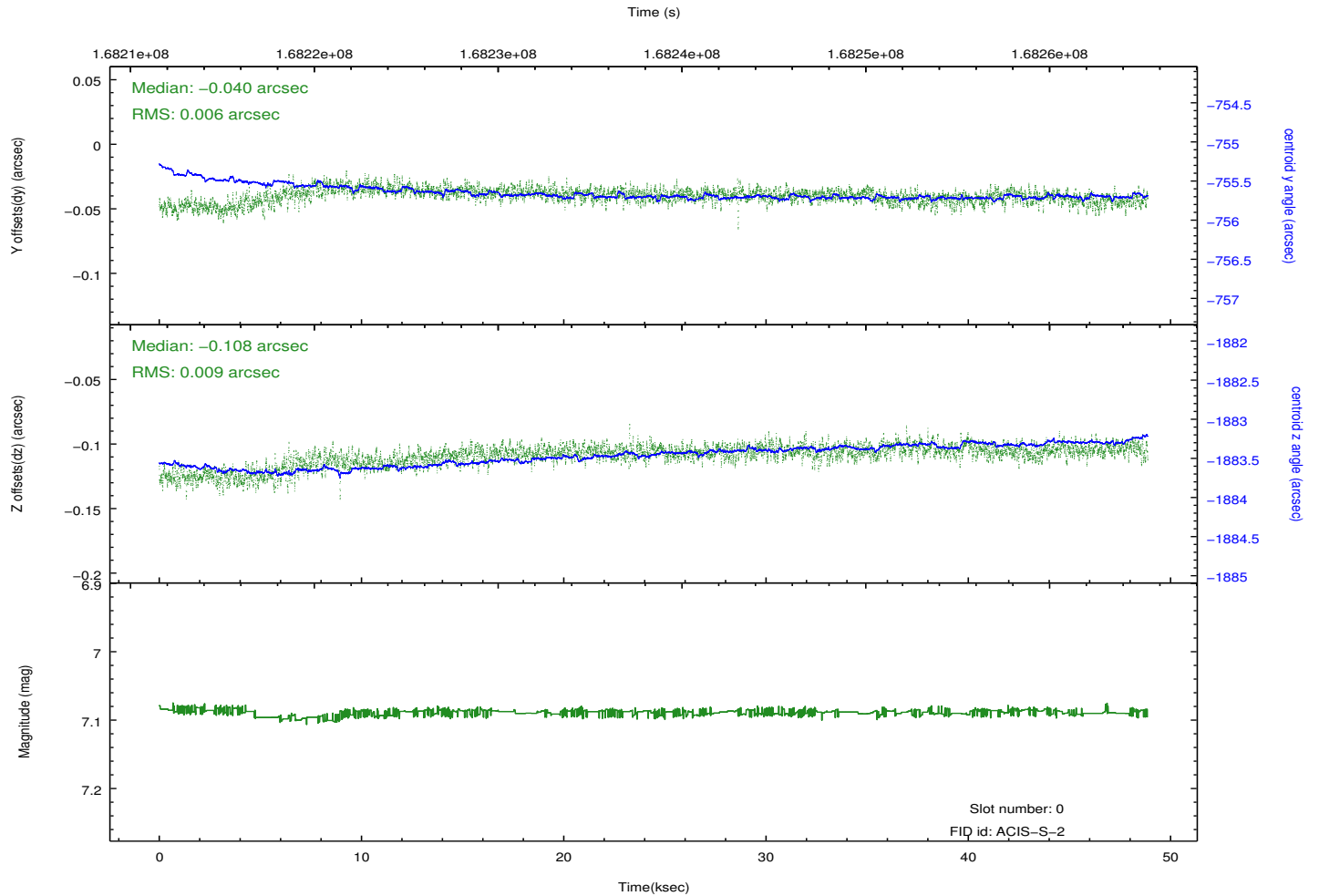
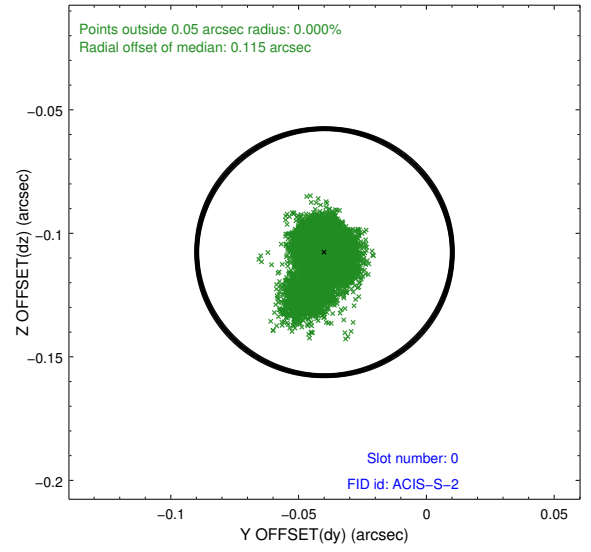
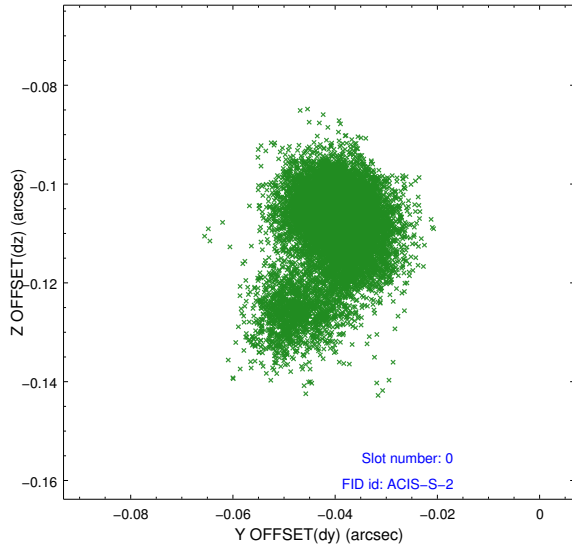


2.4.5 Slot 7

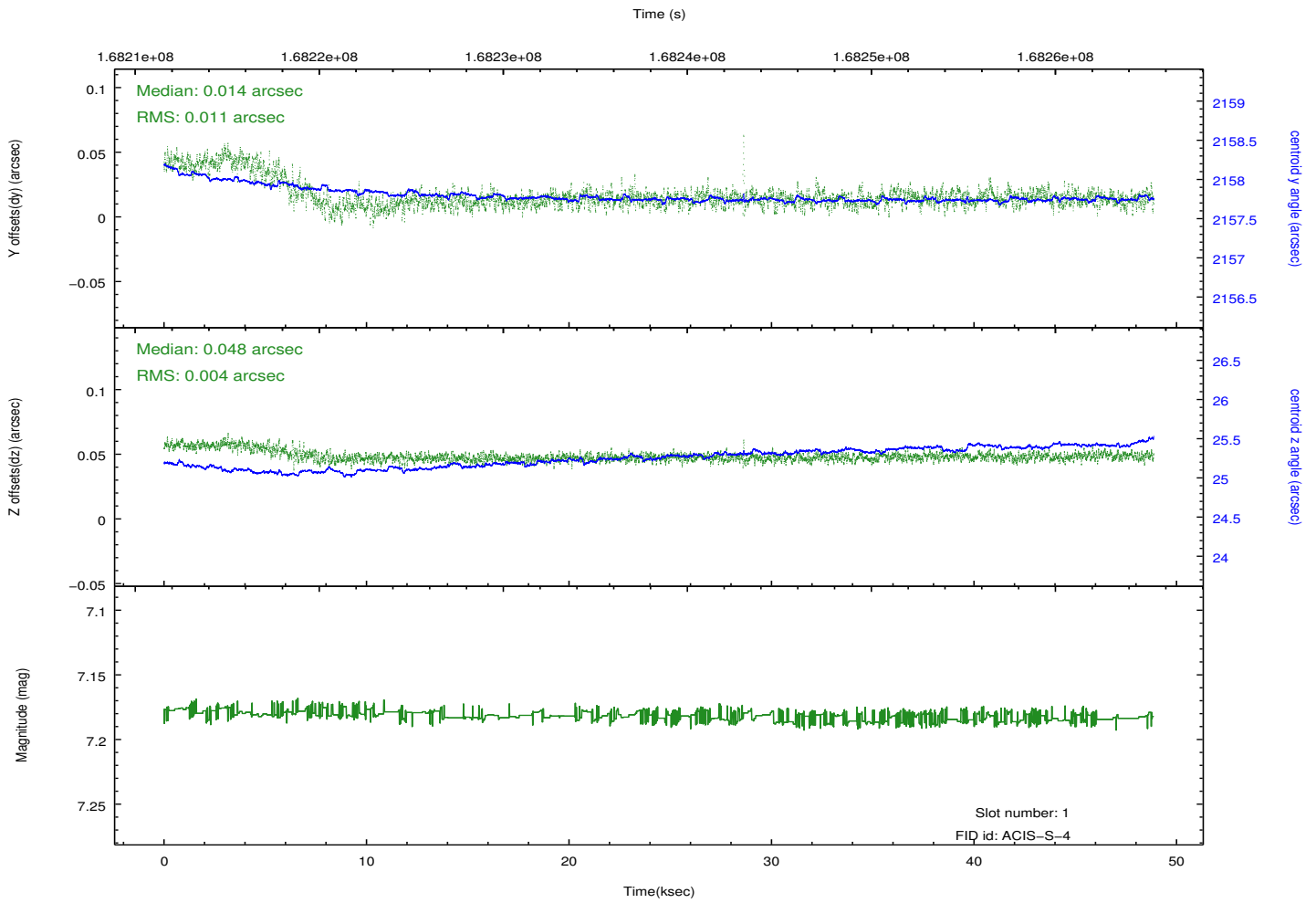
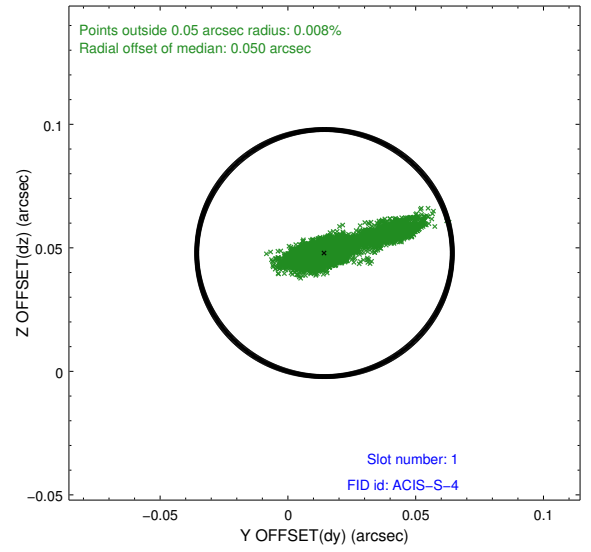
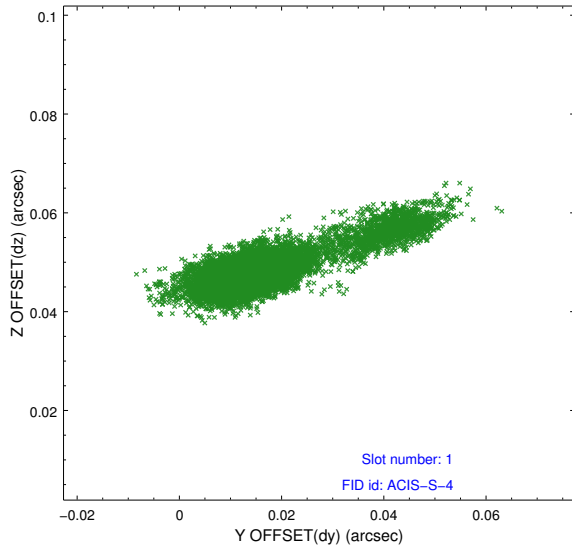


2.5 FID Slots

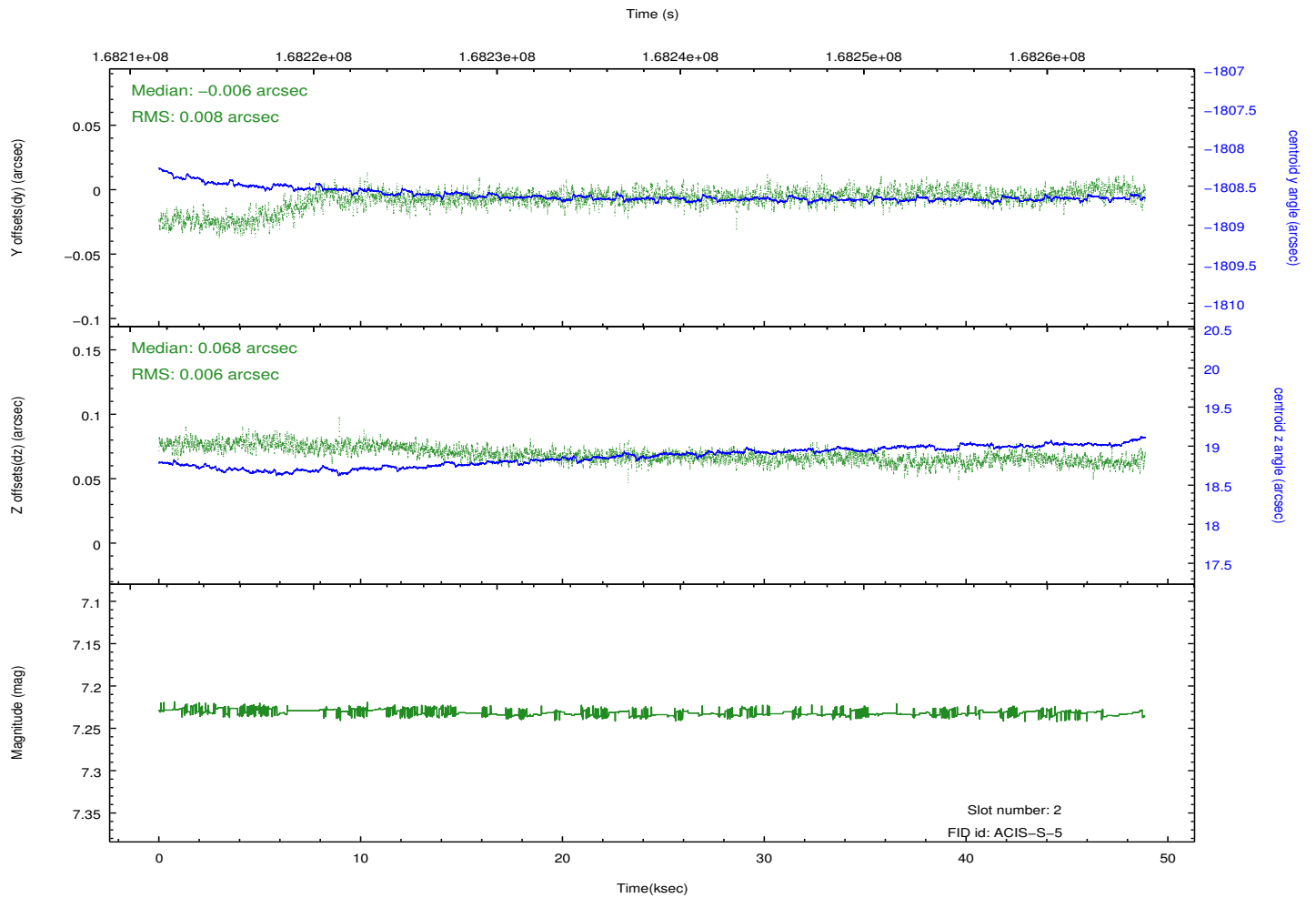
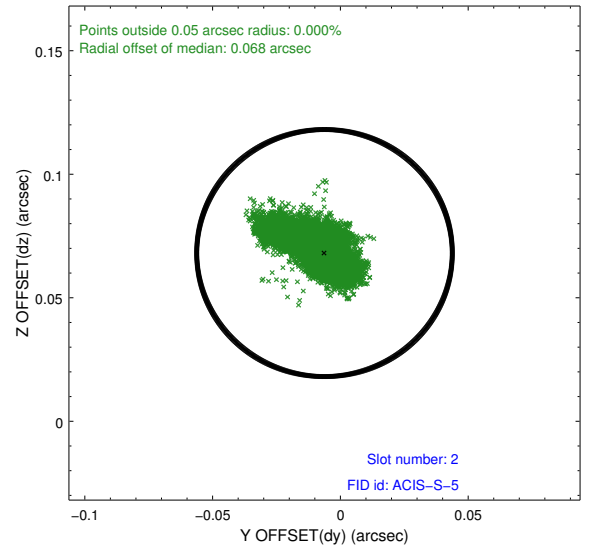
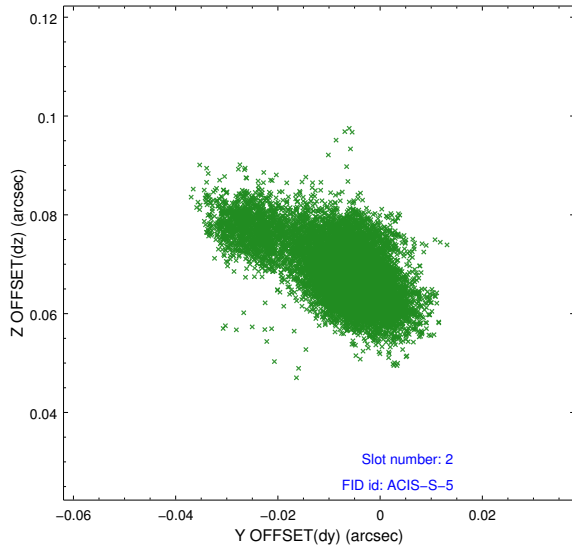
2.5.1 Slot 0



2.5.2 Slot 1

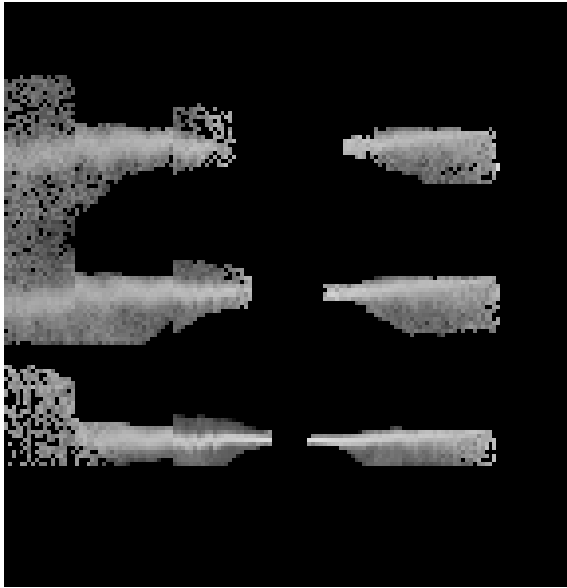


2.5.3 Slot 2



3 Gratings

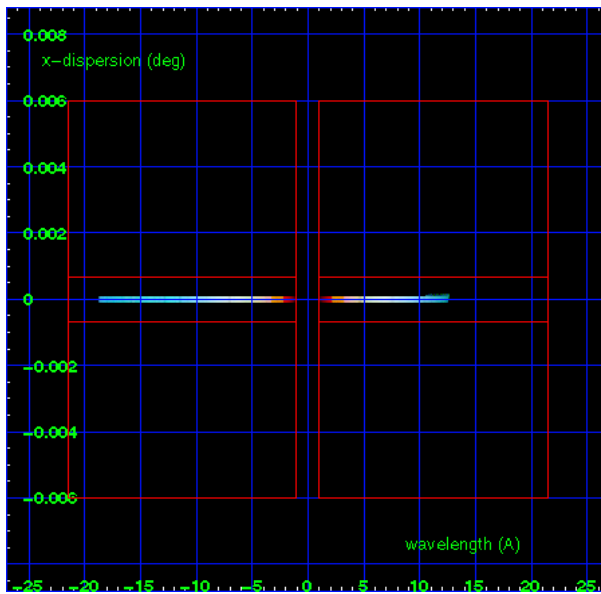
3.1 HEG Arm



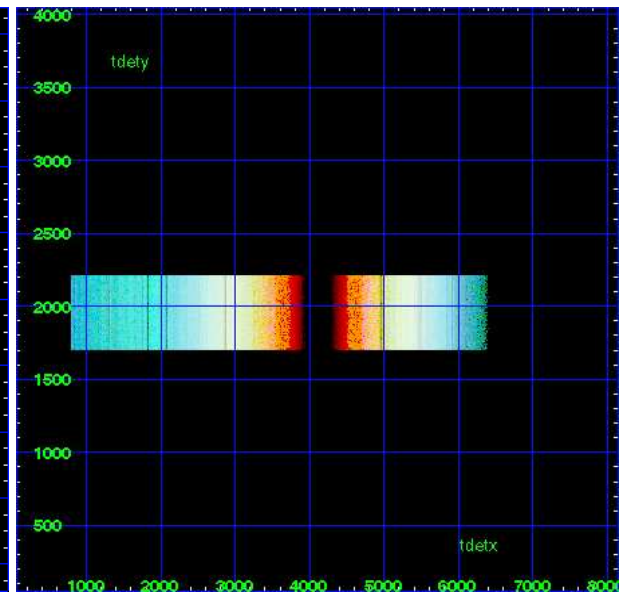
HEG Order Sort 123



HEG Order Sort ALL

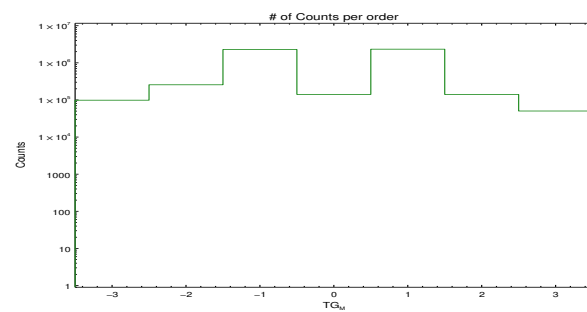


Spot Image HEG

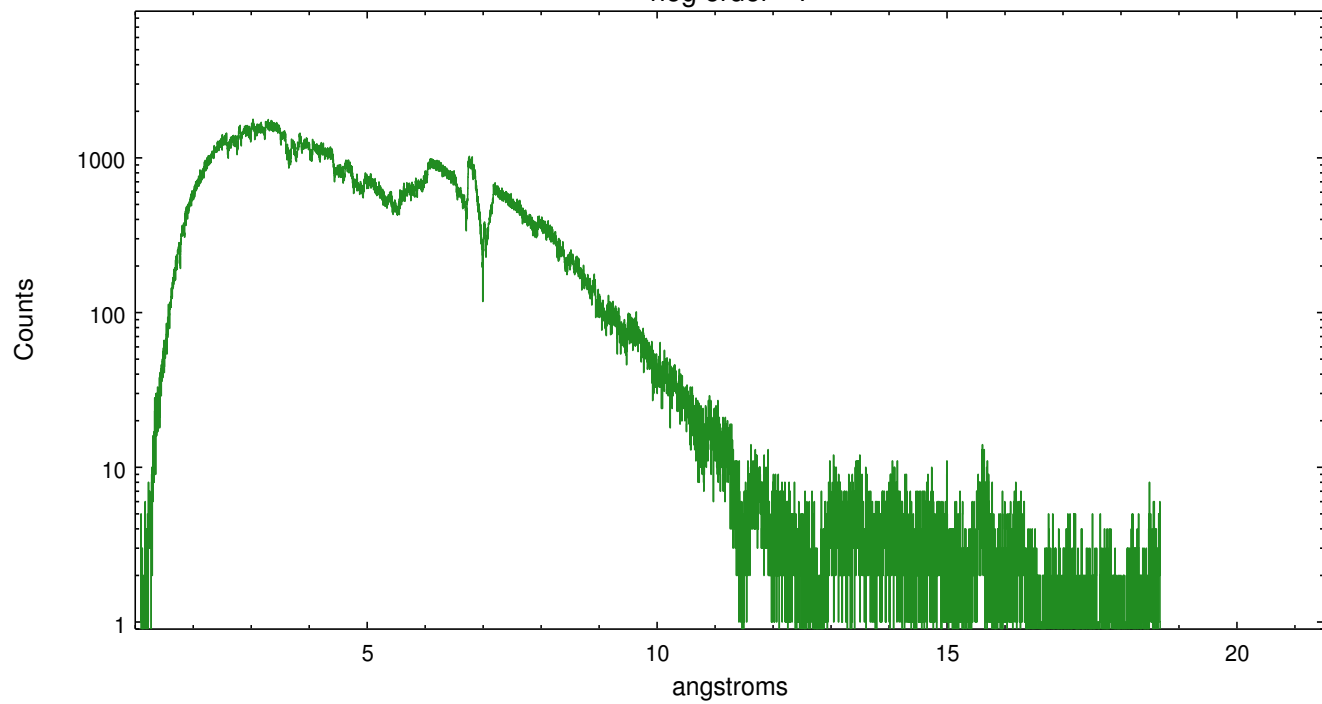


Full Detector HEG

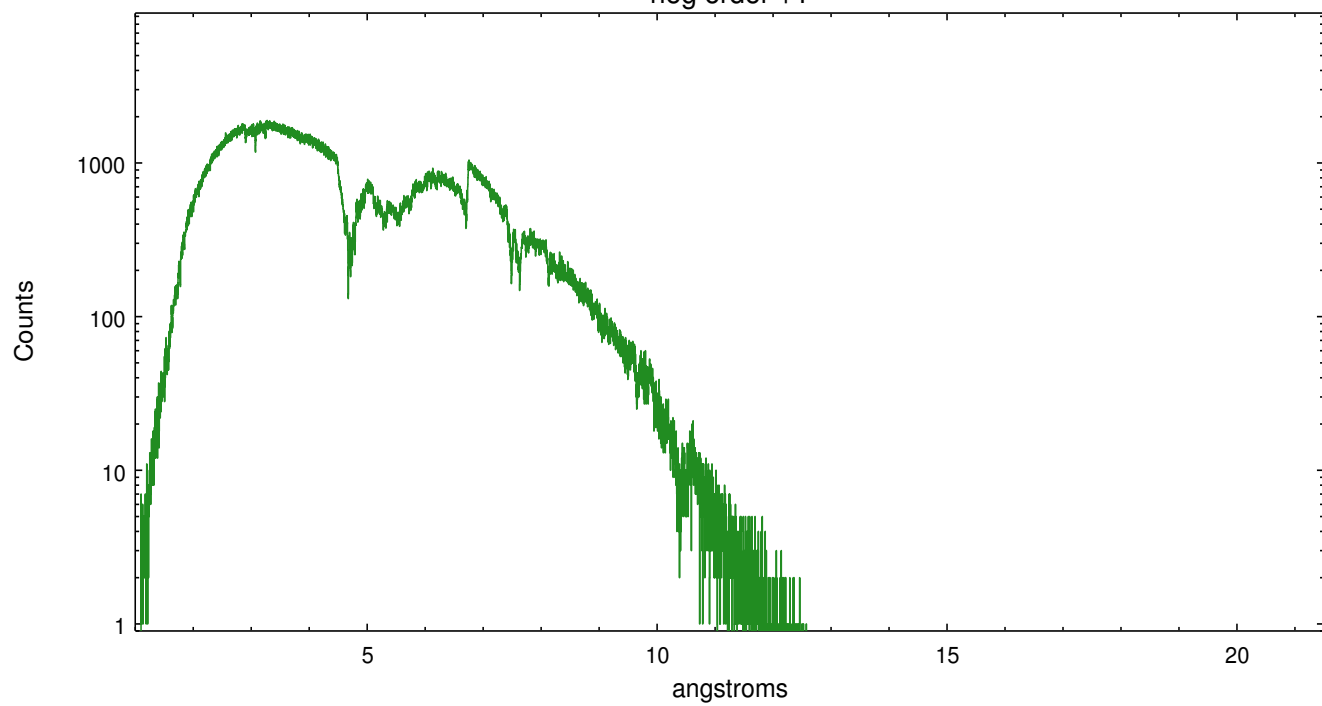
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	98384	256381	2283525	141015	2329945	140585	50347



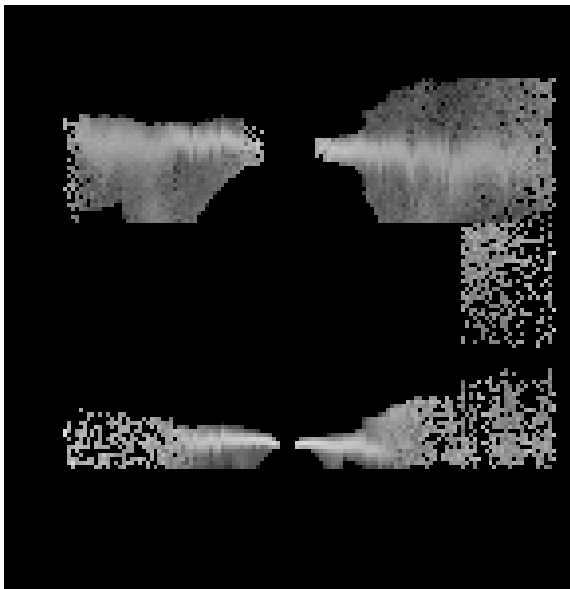
heg order -1



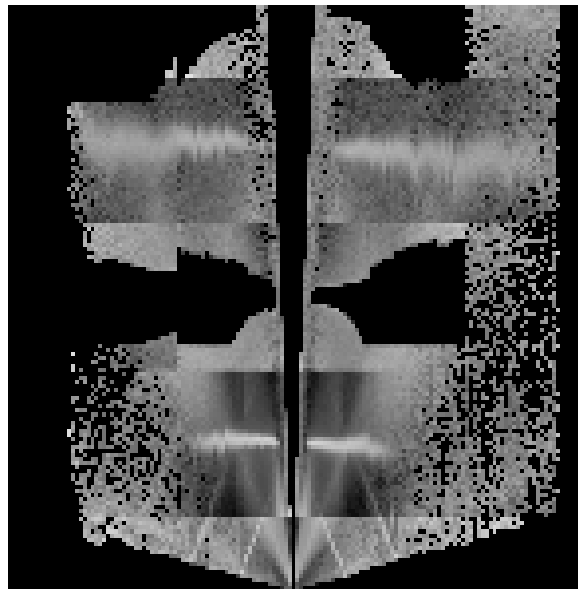
heg order +1



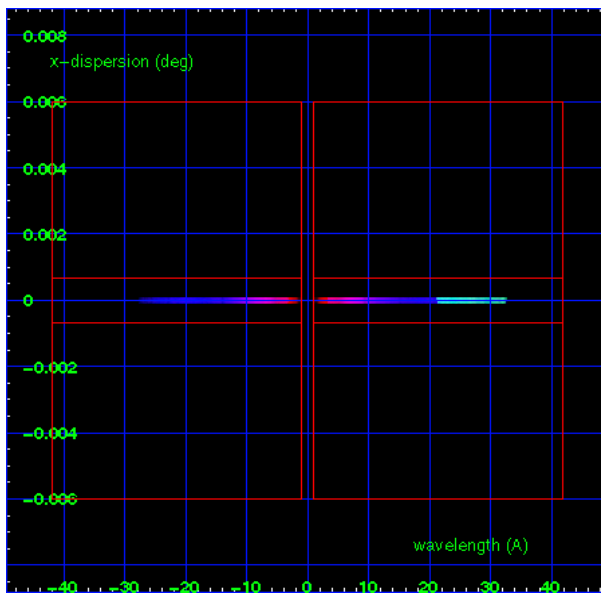
3.2 MEG Arm



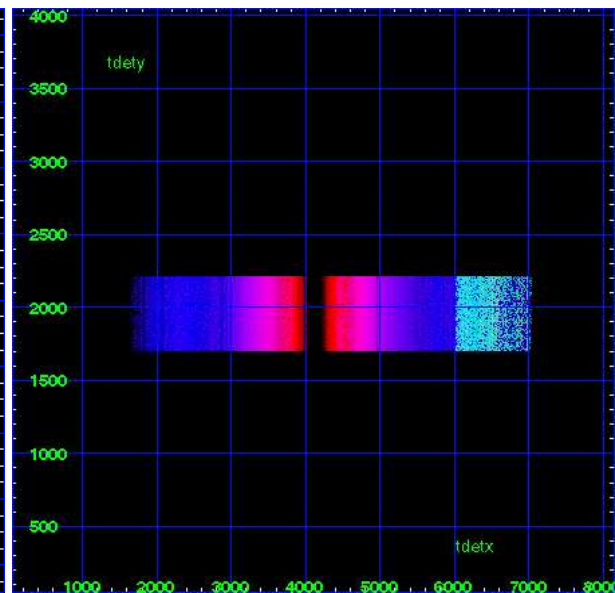
MEG Order Sort 123



MEG Order Sort ALL

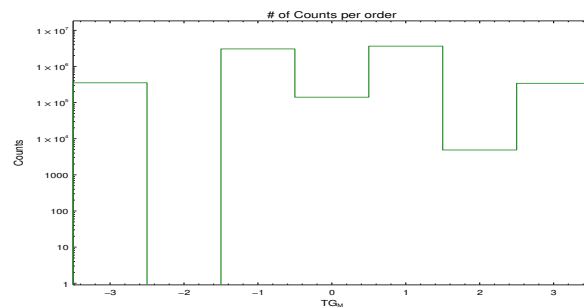


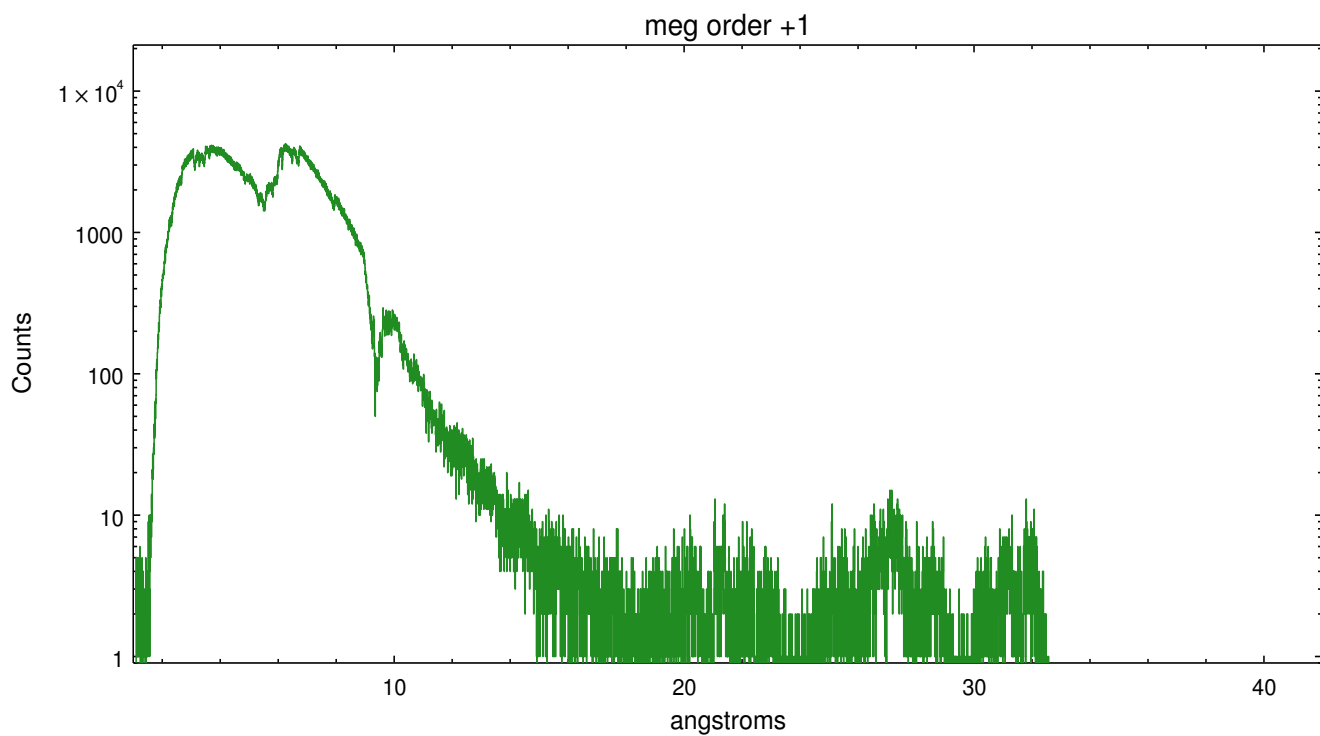
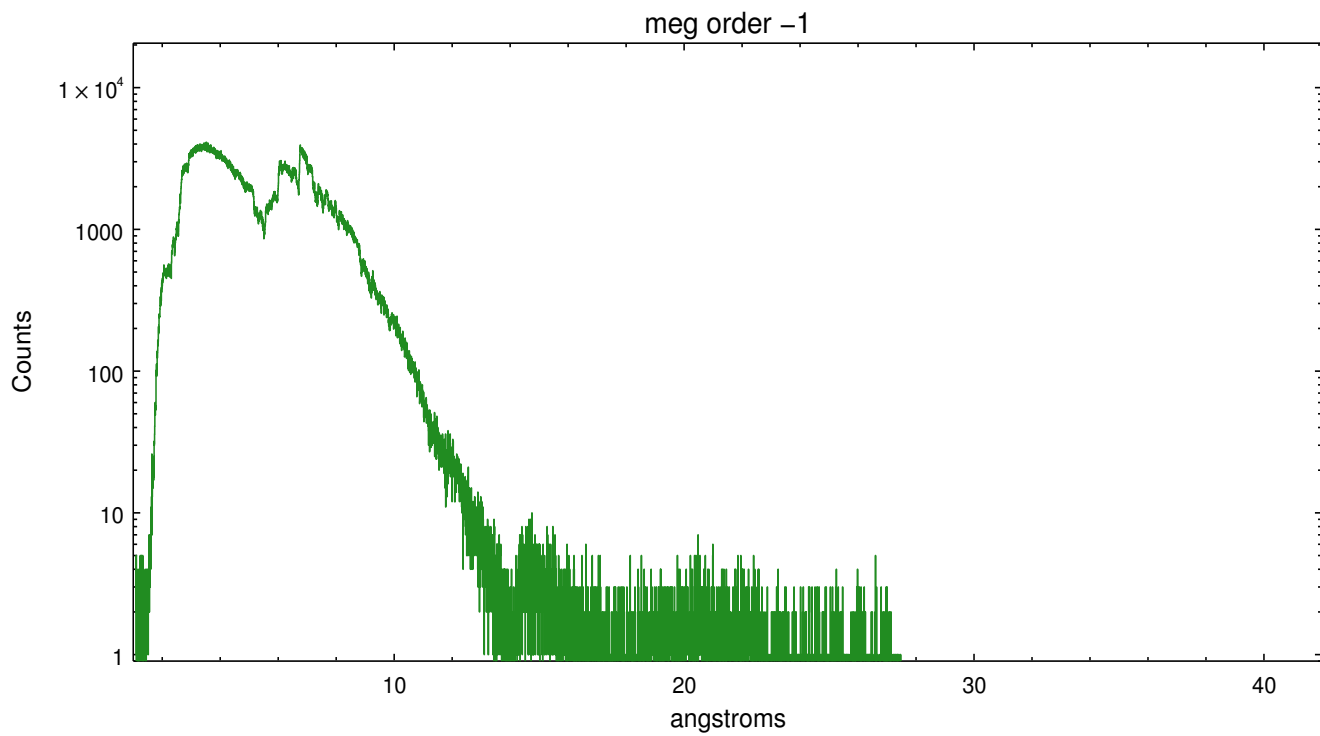
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	352944	0	3059469	141015	3650628	4873	341261





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.12.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.719

A.2 Comments