

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 6897 - L2 Version 2
Chandra X-Ray Center

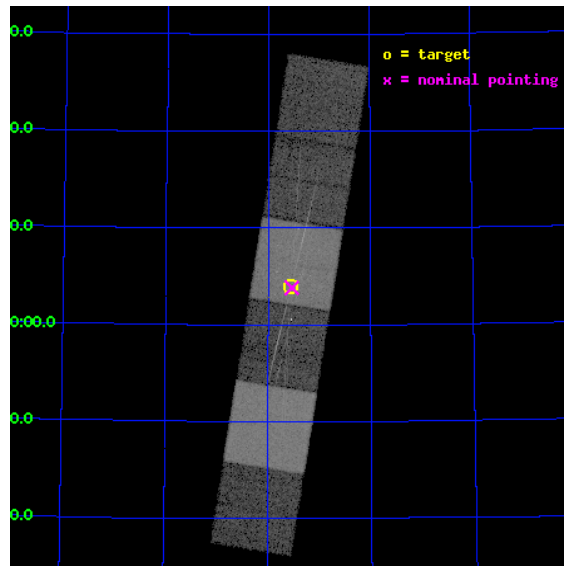
L2 Processing Date : Apr 2 2012

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1 Front

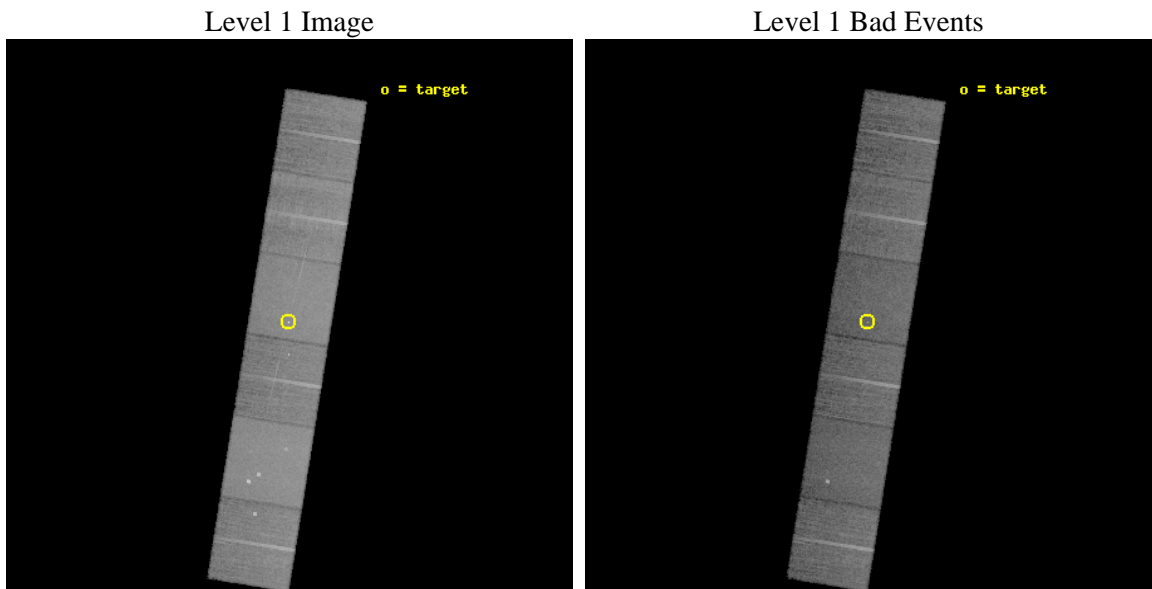
seq_num	701314	Sequence number
obs_id	6897	Observation id
title	Testing Broad-Band Jet-Powered Emission in the LLAGN M81*	Proposal
observer	Dr Jon Miller	Principal investigator
object	M81*	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.888333	Observer's specified target RA [deg]
dec_targ	69.065306	Observer's specified target Dec [deg]
ra_nom	148.88420154482	Nominal RA [deg]
dec_nom	69.063789933903	Nominal Dec [deg]
roll_nom	279.1506320203	Nominal Roll [deg]
revision	2	Processing version of data
ontime	14950.399944305	Sum of GTIs [s]
livetime	14761.088978161	Livetime [s]
ontime4	14950.399944305	Sum of GTIs [s]
ontime5	14950.399944305	Sum of GTIs [s]
ontime6	14950.399944305	Sum of GTIs [s]
ontime7	14950.399944305	Sum of GTIs [s]
ontime8	14950.397375554	Sum of GTIs [s]
ontime9	14950.35633558	Sum of GTIs [s]
l2events	225788	Number of level 2 events



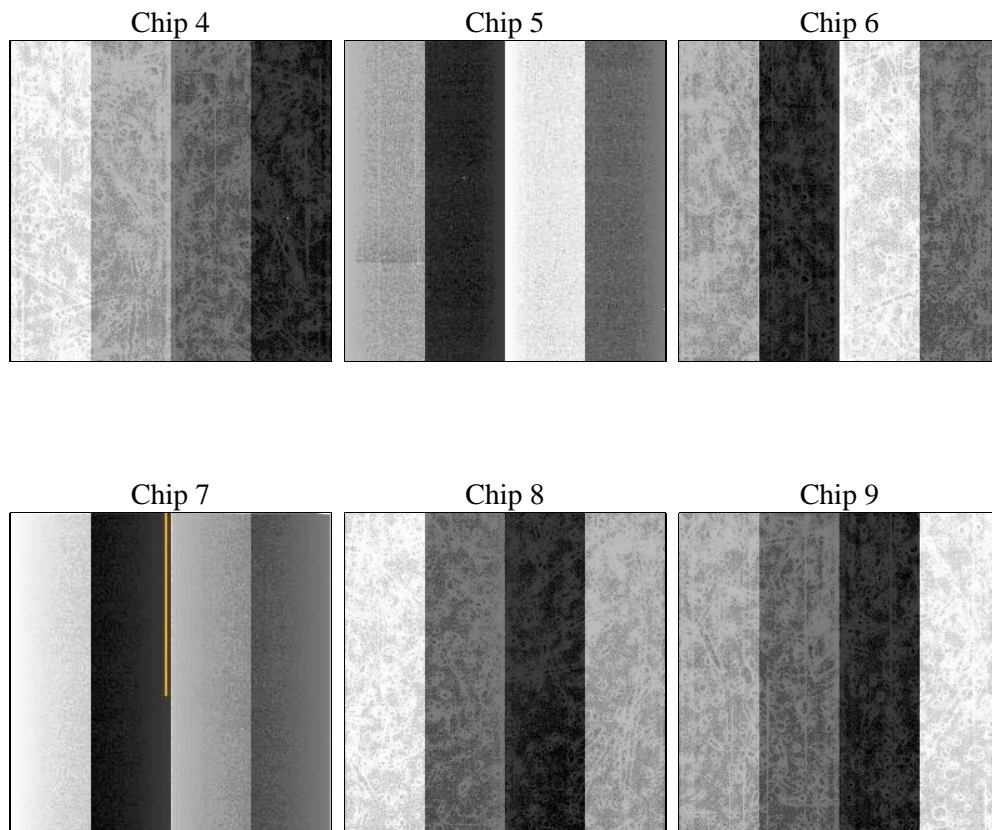
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	14950.399944305	Sum of GTIs [s]
caldsver	4.4.9	 	ontime4	14950.399944305	Sum of GTIs [s]
date	2012-04-02T21:08:34	Date and time of file creation	ontime5	14950.399944305	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	14950.399944305	Sum of GTIs [s]
			ontime7	14950.399944305	Sum of GTIs [s]
			ontime8	14950.397375554	Sum of GTIs [s]
			ontime9	14950.35633558	Sum of GTIs [s]
			l1events	980074	Number of level 1 events

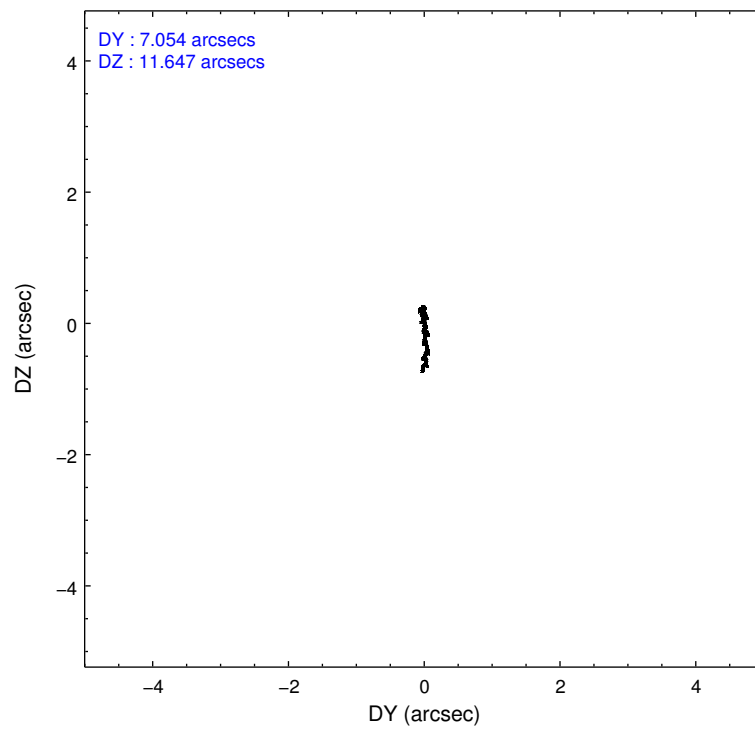
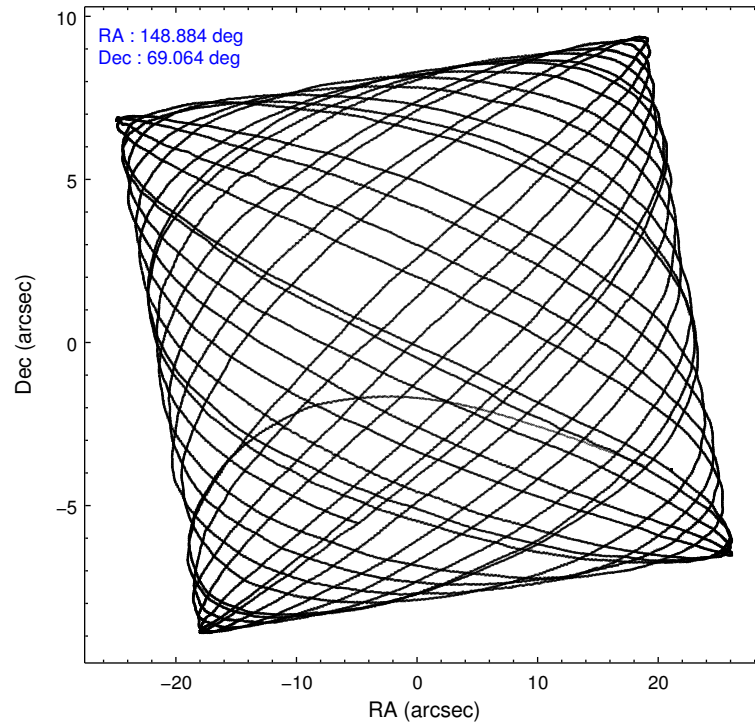
2.1.4 Events

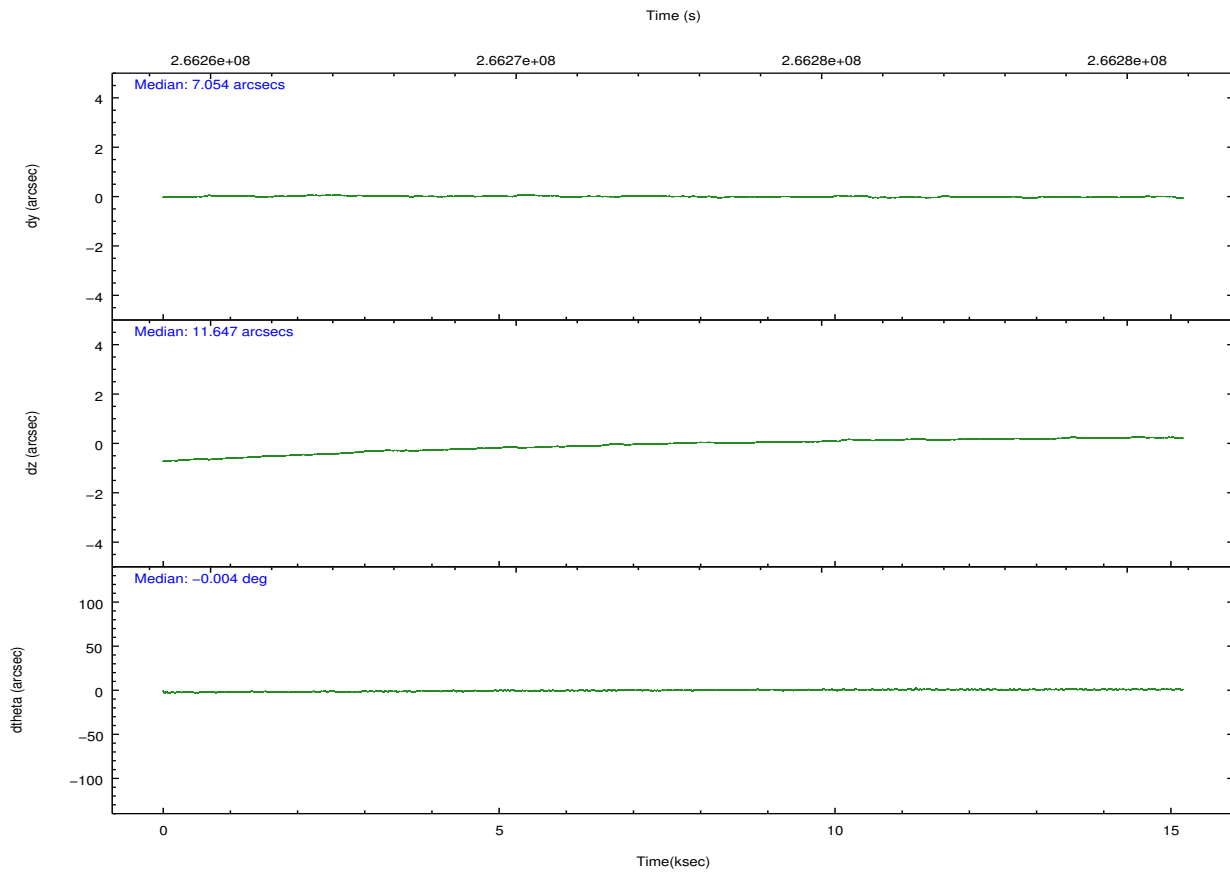
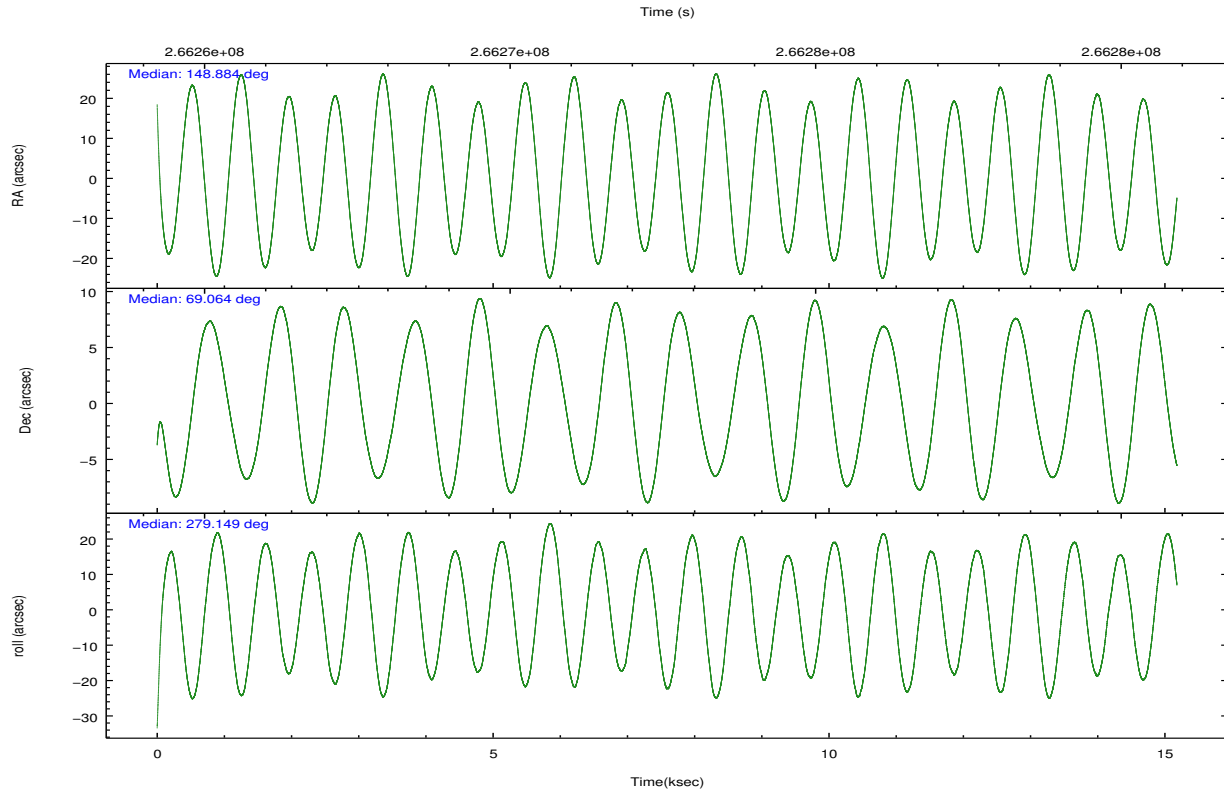
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	146845	201568	139240	185698	172508	134215	grade 0 events	9065	9174	8370	7548	12214	6715
rejected events	128655	108958	120473	105542	134031	117819		6%	4%	6%	4%	7%	5%
rejected %	87%	54%	86%	56%	77%	87%	grade 1 events	148	1528	74	200	127	90
								0%	0%	0%	0%	0%	0%
							grade 2 events	3326	27543	3814	16399	8647	3230
								2%	13%	2%	8%	5%	2%
							grade 3 events	1667	3639	1598	7182	3872	1633
								1%	1%	1%	3%	2%	1%
							grade 4 events	1597	3485	1556	7197	3542	1589
								1%	1%	1%	3%	2%	1%
							grade 5 events	5996	14484	6237	17584	8300	6510
								4%	7%	4%	9%	4%	4%
							grade 6 events	2537	48792	3431	41848	10212	3231
								1%	24%	2%	22%	5%	2%
							grade 7 events	122509	92923	114160	87740	125594	111217
								83%	46%	81%	47%	72%	82%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	148.835299	148.8842015448181	Subarray requested	NONE	NONE
[deg] Pointing Dec	69.084683	69.06378993390263	Alternating exposures requested	N	N
[deg] Pointing Roll	279.039691	279.1506320203033	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	266265155.184000	266264042.82069			
Observation start date	2006-06-09T18:31:30	2006-06-09T18:14:02			
[s] Observation end time (MET)	266280155.184000	266281112.65899			
Observation end date	2006-06-09T22:41:30	2006-06-09T22:58:32			
Read mode	TIMED	TIMED			

2.3 Aspect



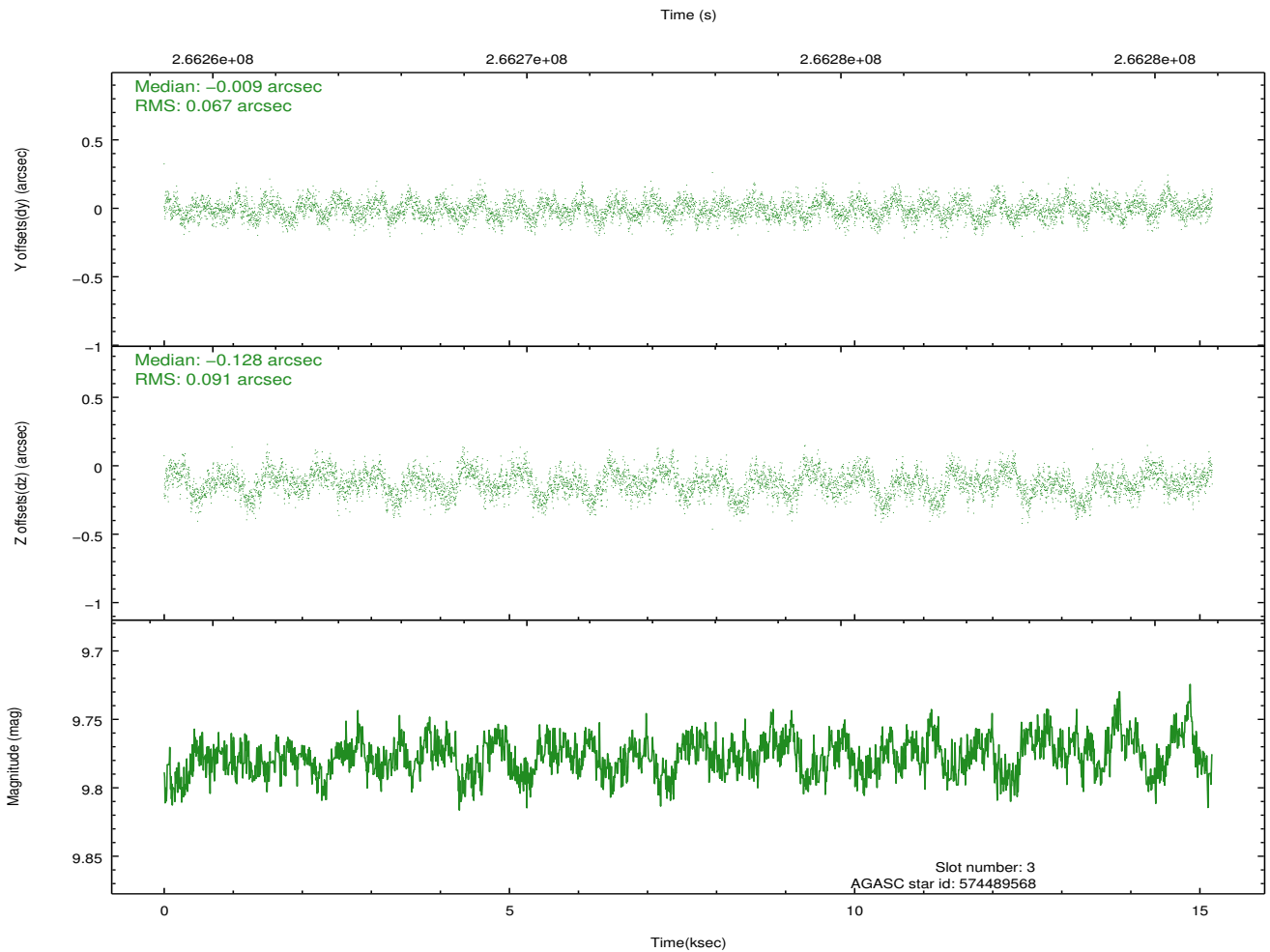
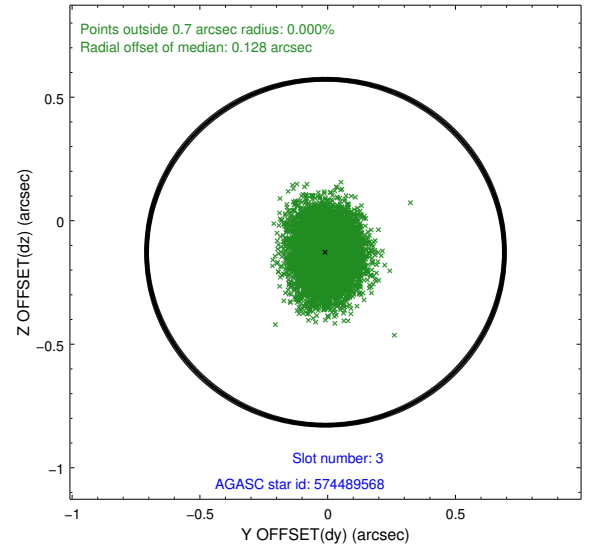
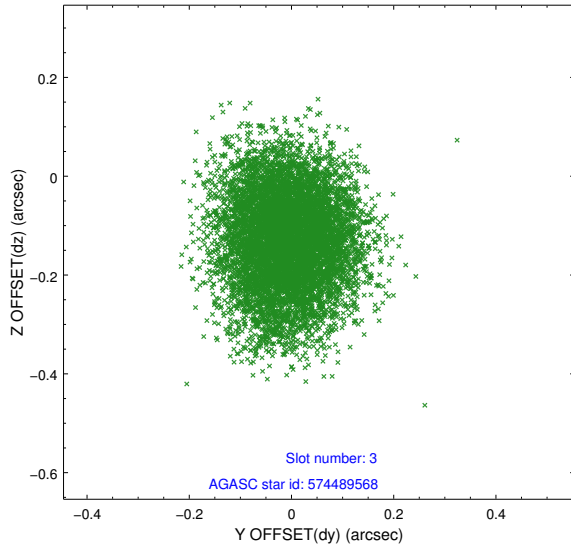


Slot Statistics

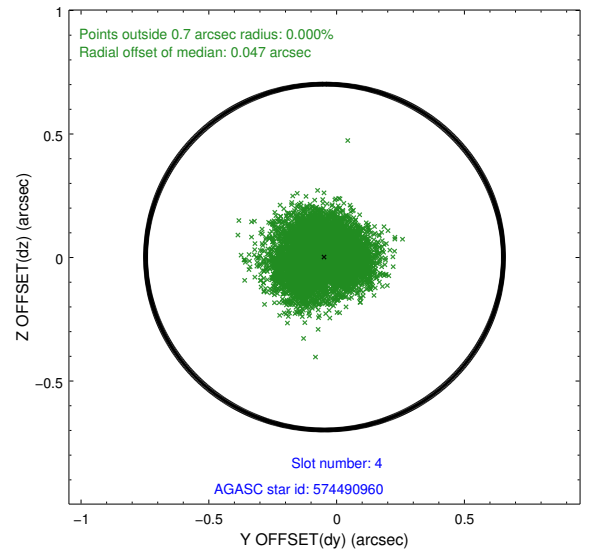
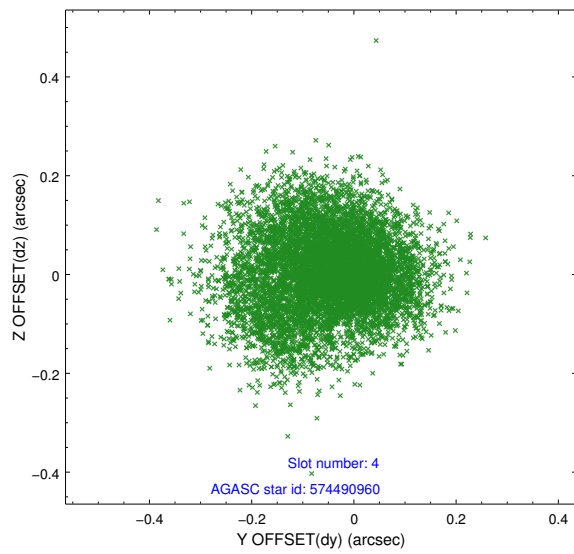
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	3703	-0.047	-0.034	0.010	0.016	0.000000	0.000000	-759.84	-1732.84
1	FID	ACIS-S-4	7.21	3703	0.101	0.032	0.009	0.016	0.000000	0.000000	2153.43	175.43
2	FID	ACIS-S-5	7.23	3703	-0.085	0.011	0.009	0.014	0.000000	0.000000	-1812.35	169.38
3	GUIDE	574489568	9.78	7403	-0.009	-0.128	0.122	0.195	147.223974	69.438157	-1602.94	-1807.55
4	GUIDE	574490960	9.73	7397	-0.047	0.002	0.133	0.208	148.185918	69.658768	-2172.78	-477.31
5	GUIDE	574491280	9.35	7401	-0.014	0.057	0.120	0.188	148.611567	69.450135	-1343.75	-73.03
6	GUIDE	574491712	9.92	7400	-0.090	-0.067	0.117	0.197	147.262590	69.570889	-2063.96	-1672.20
7	GUIDE	574496360	9.46	7402	0.176	0.138	0.098	0.165	150.806604	68.529829	2339.74	2257.97

2.4 Star Slots

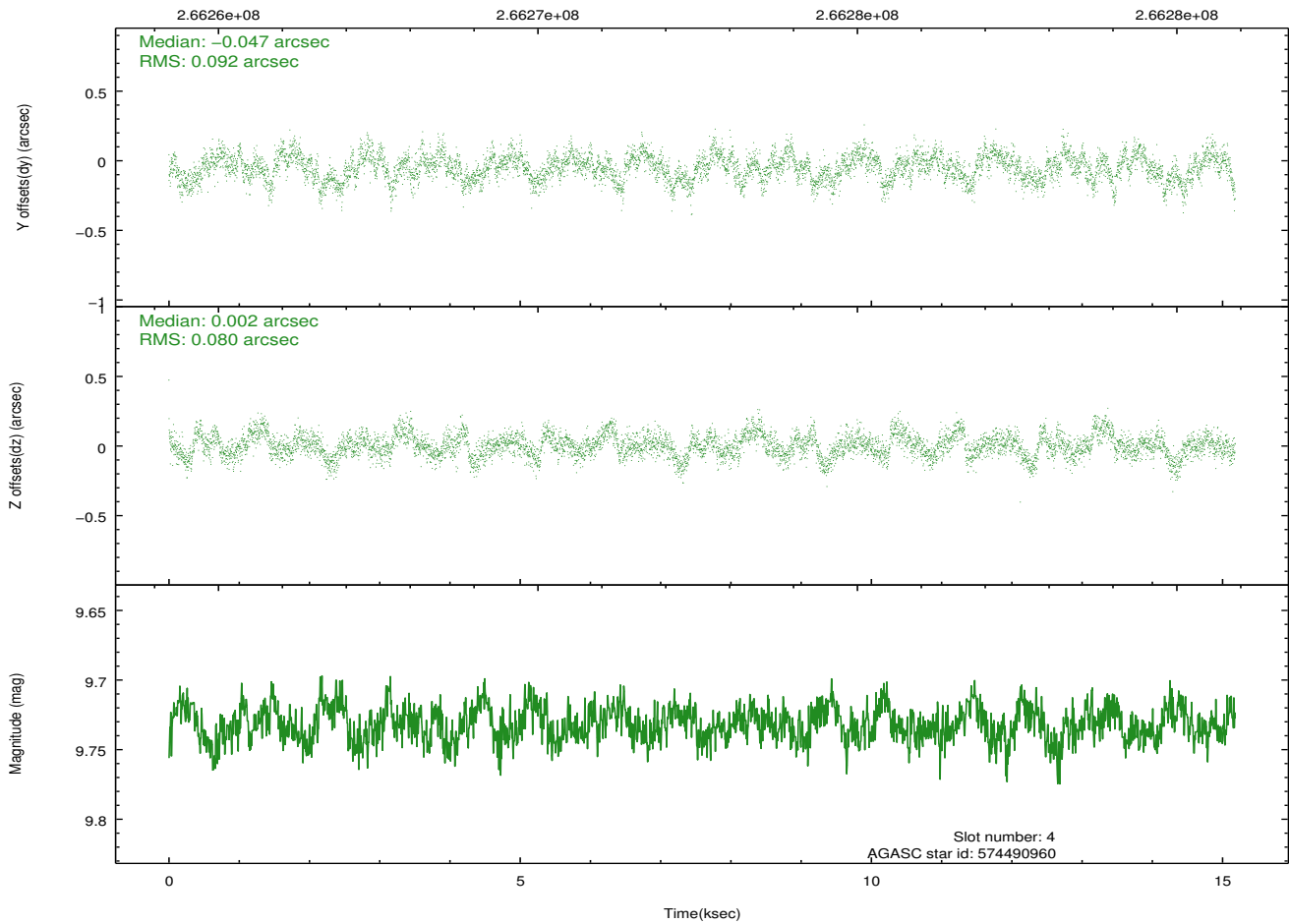
2.4.1 Slot 3



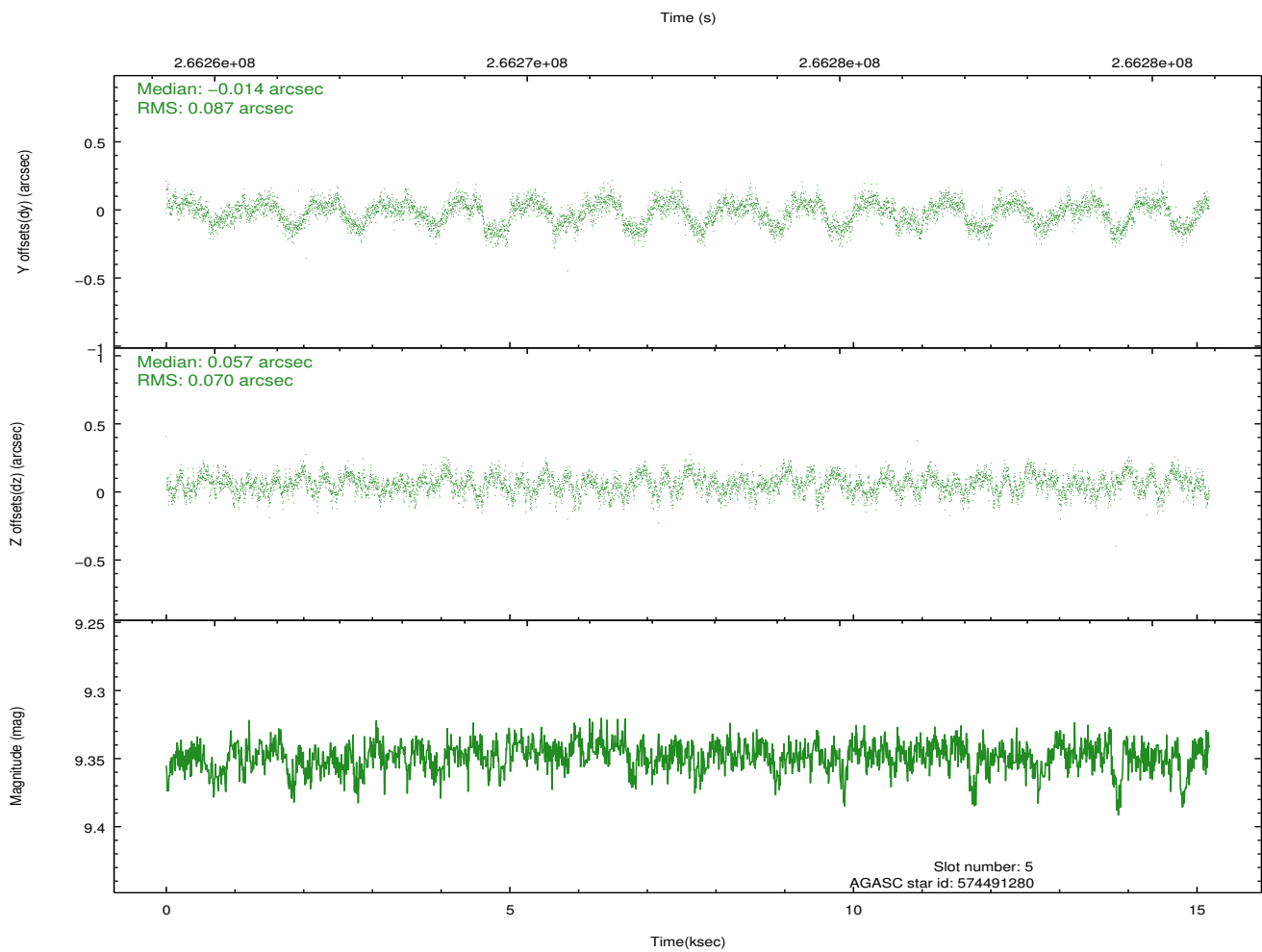
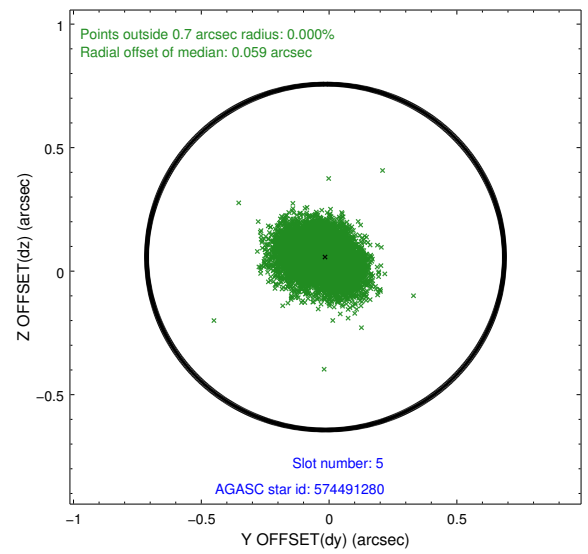
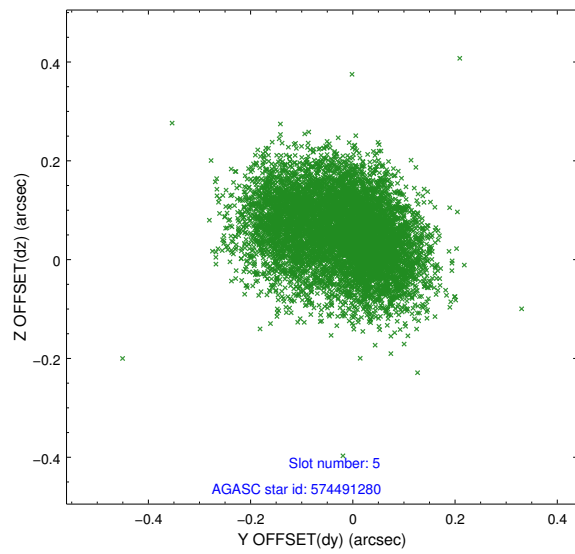
2.4.2 Slot 4



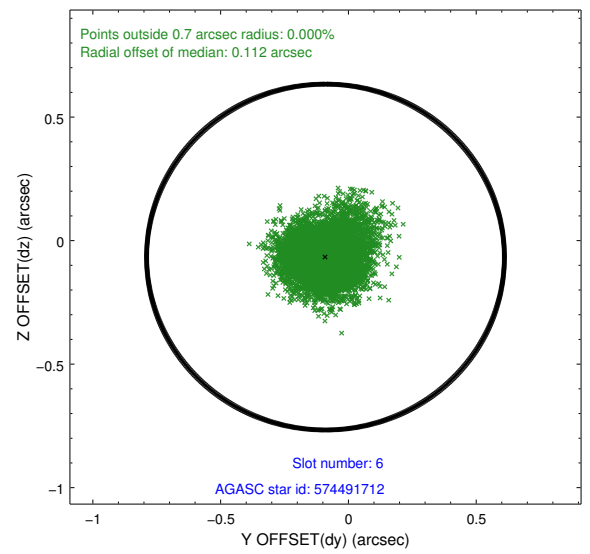
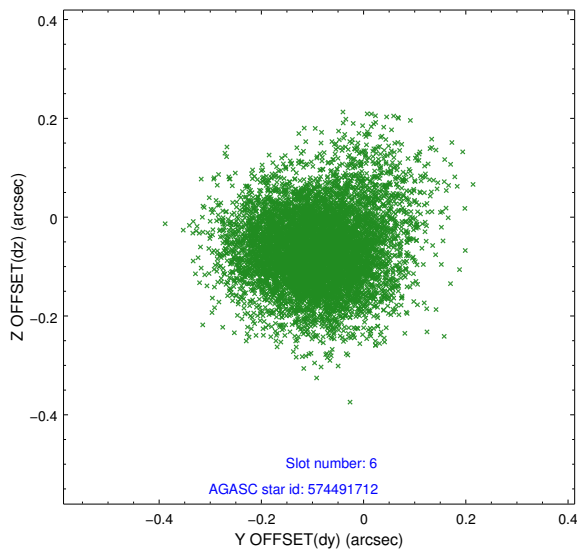
Time (s)



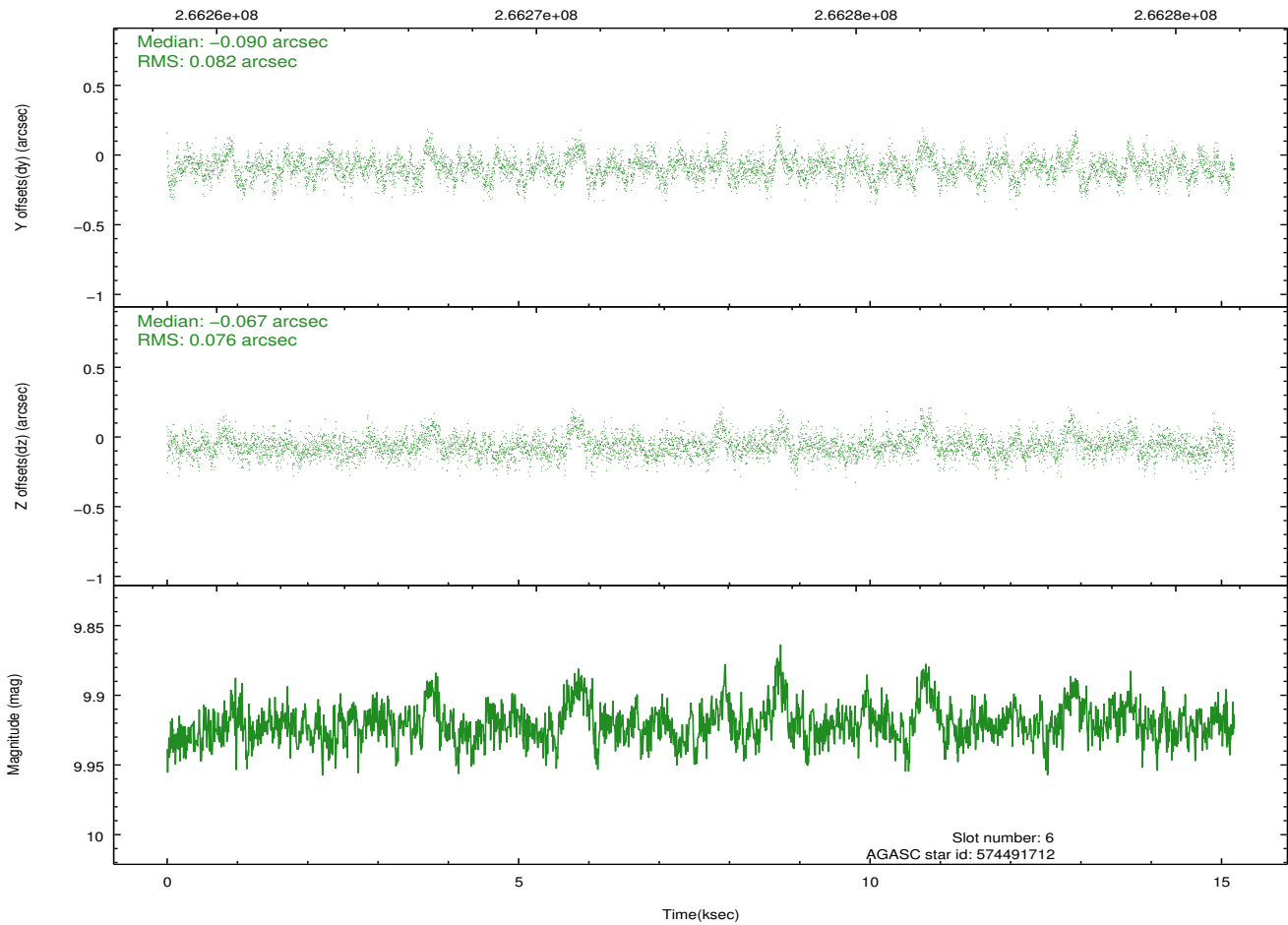
2.4.3 Slot 5



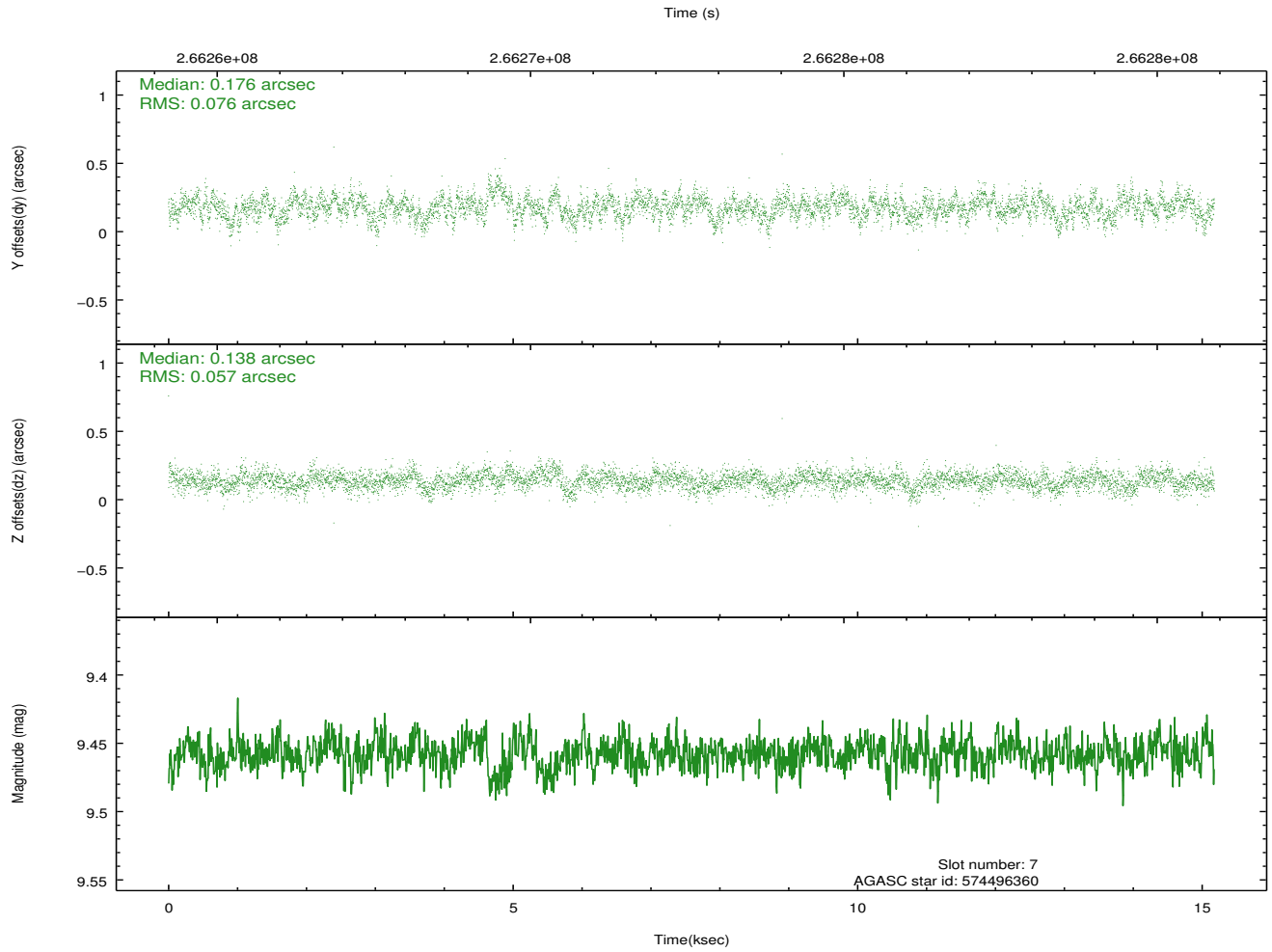
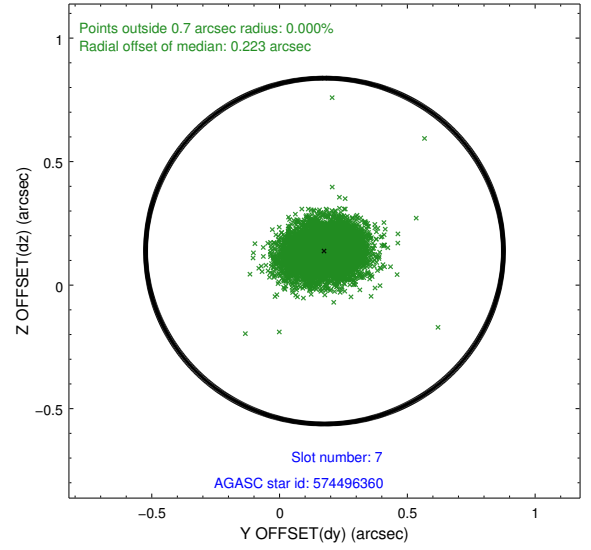
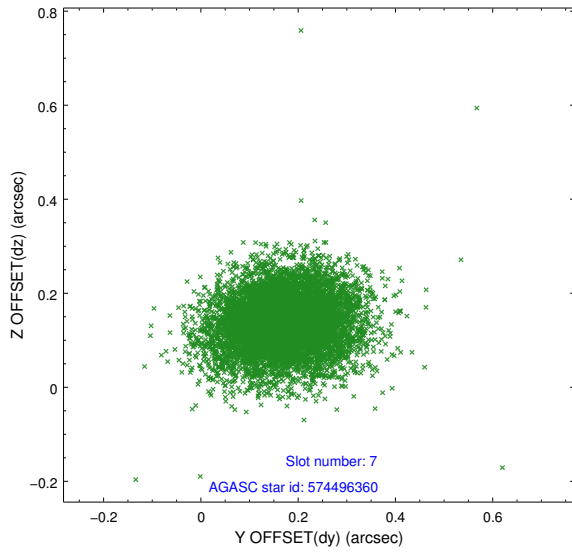
2.4.4 Slot 6



Time (s)

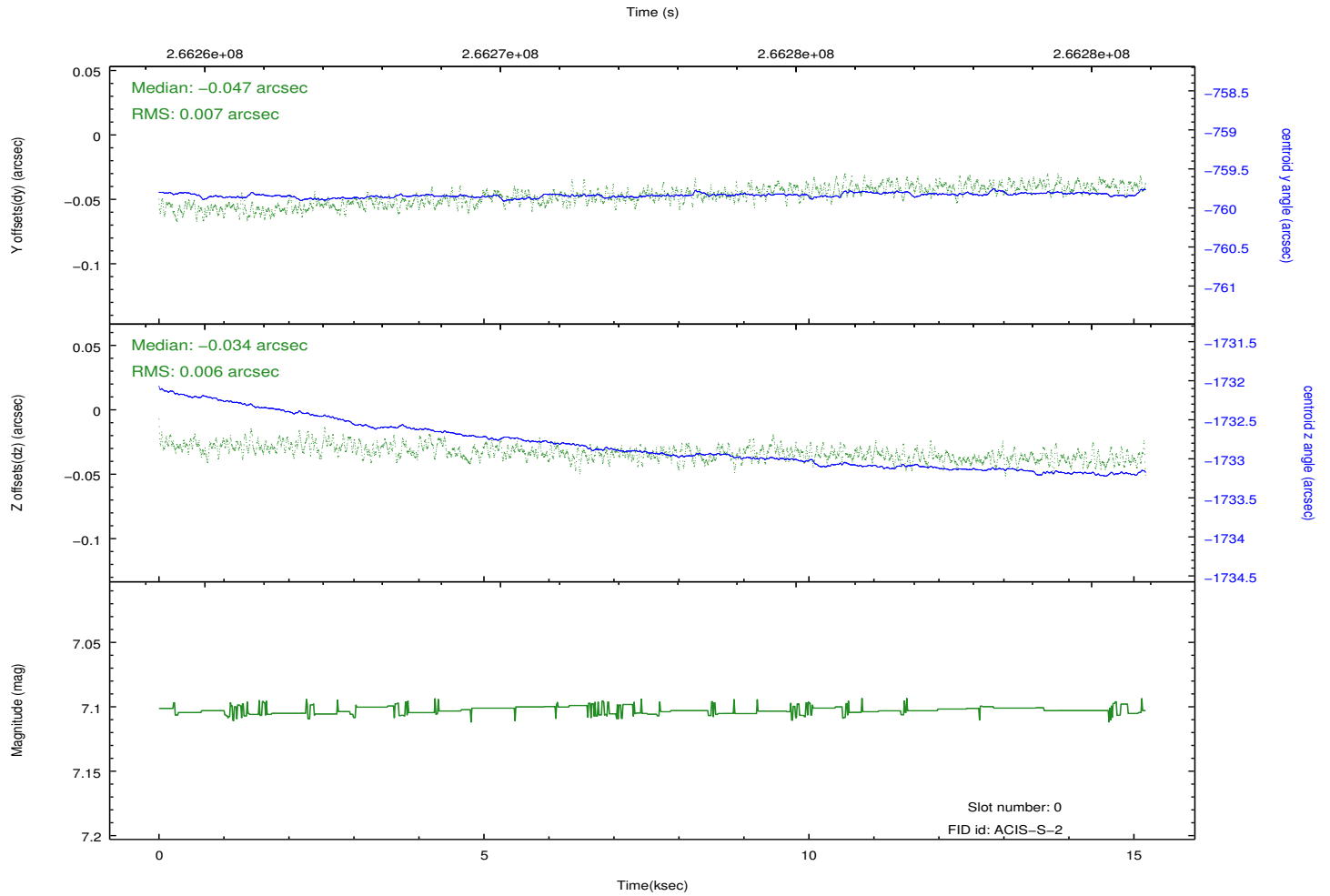
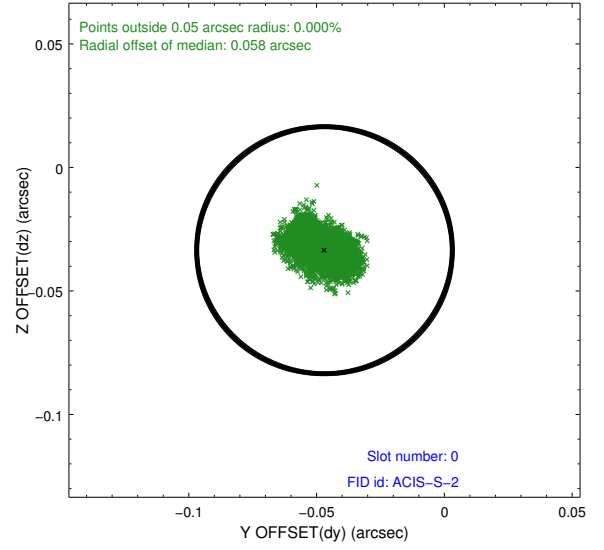
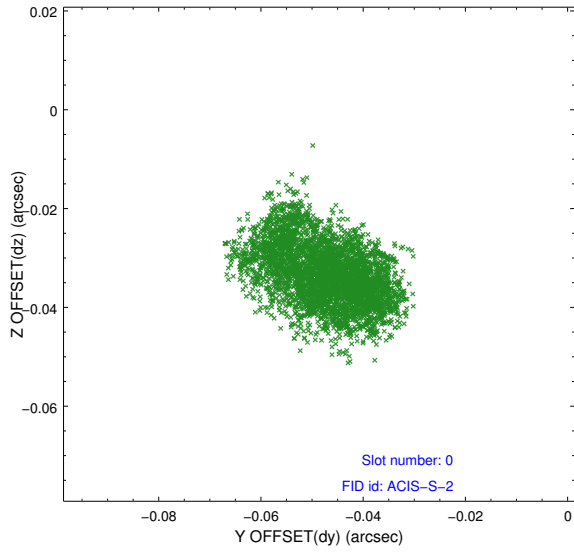


2.4.5 Slot 7

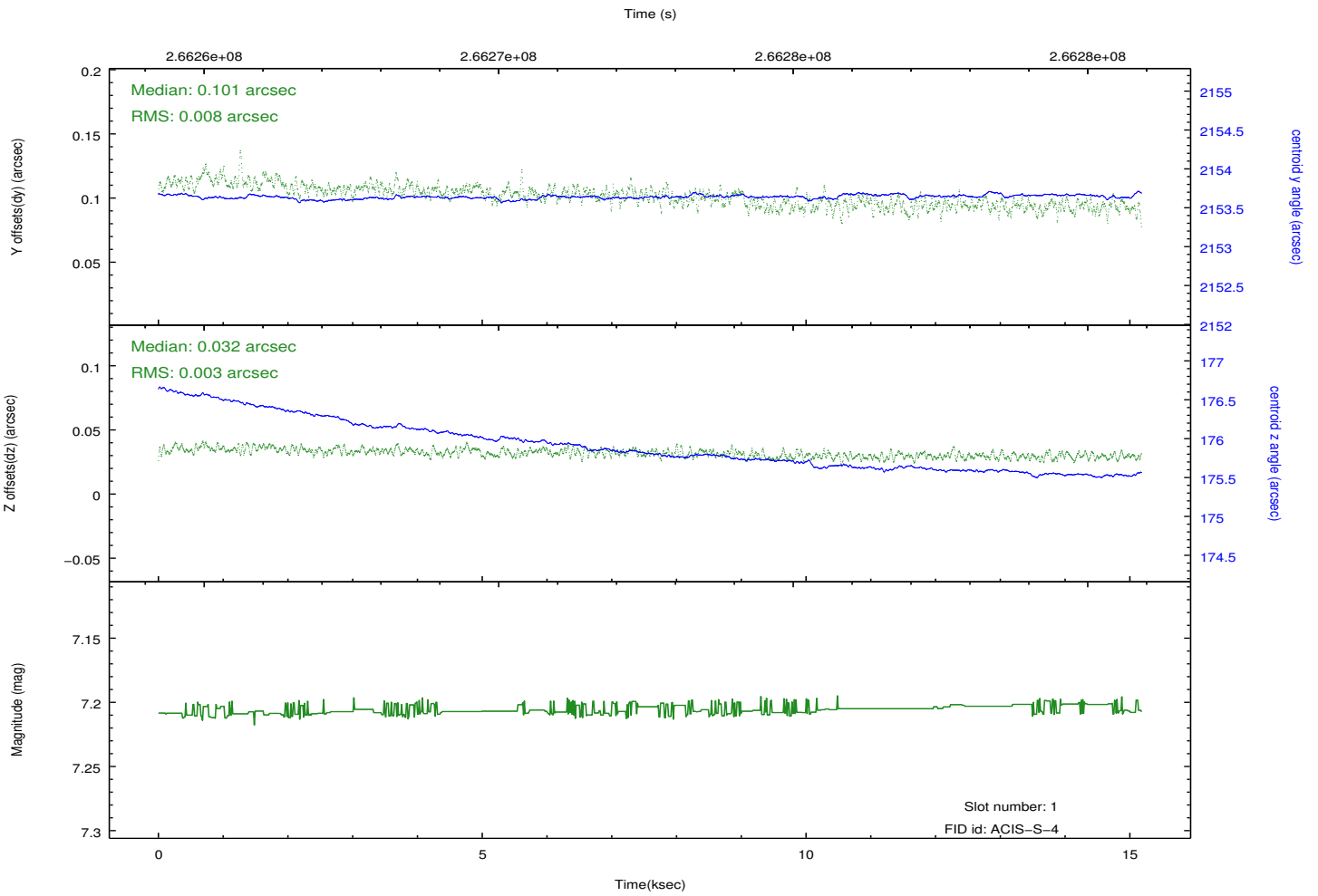
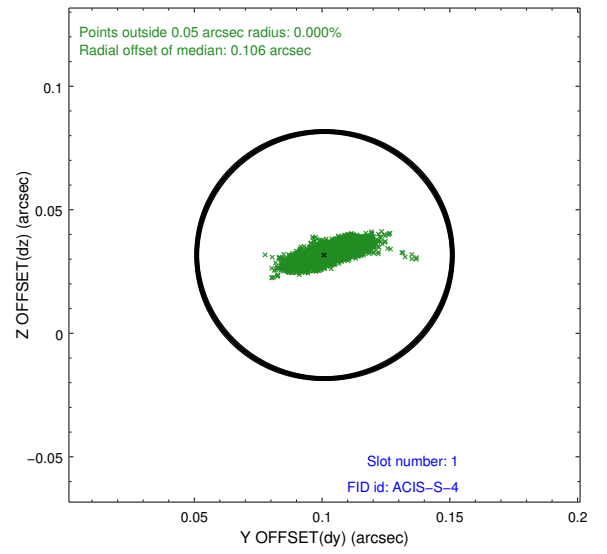
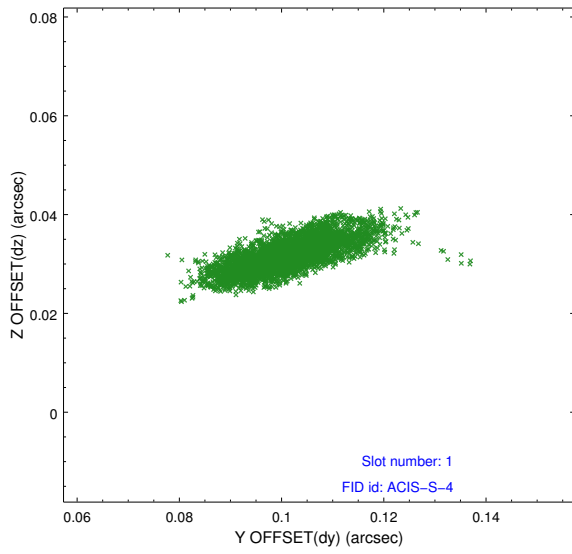


2.5 FID Slots

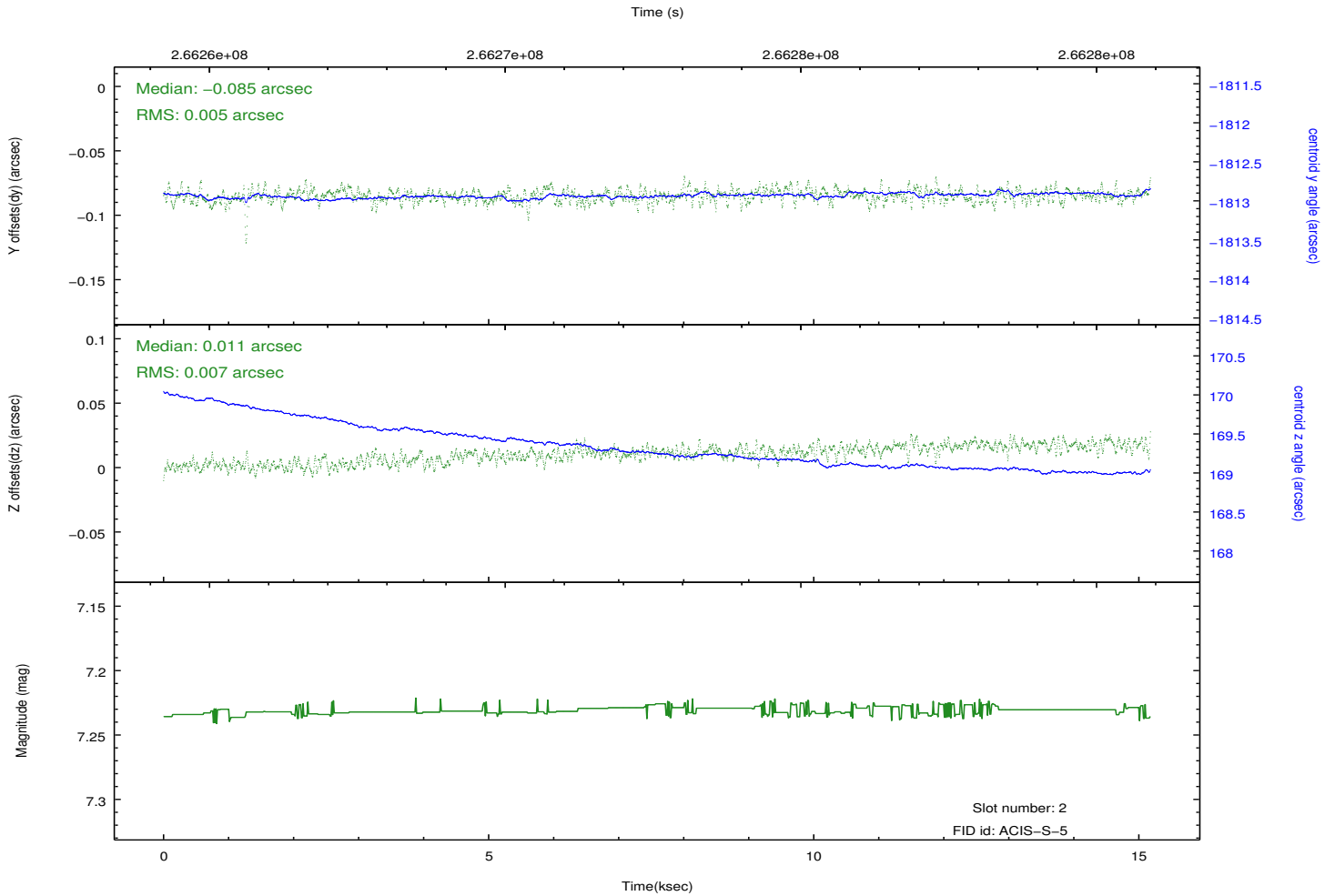
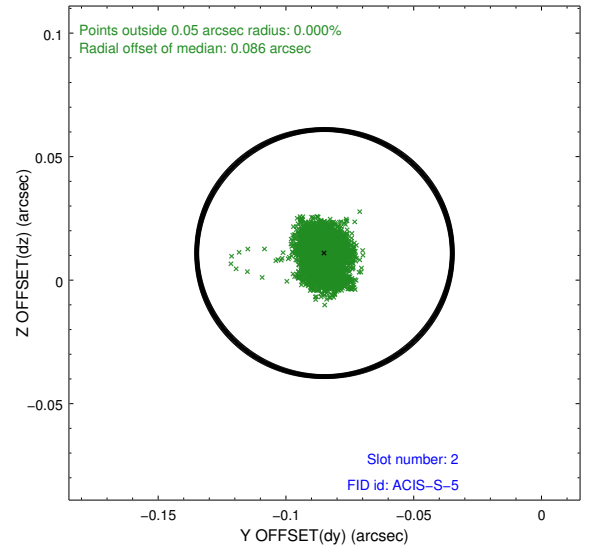
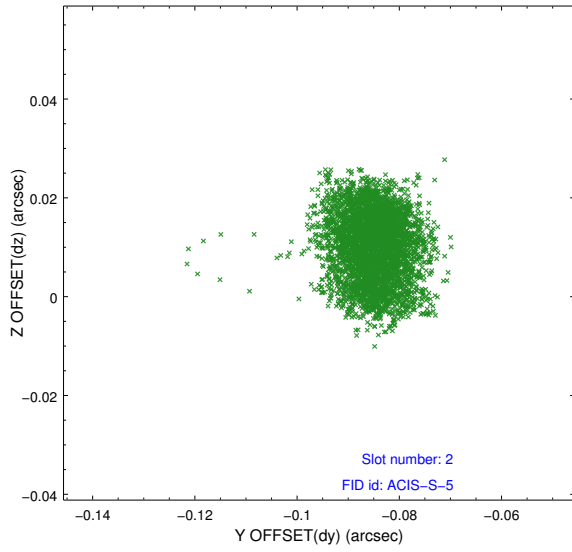
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

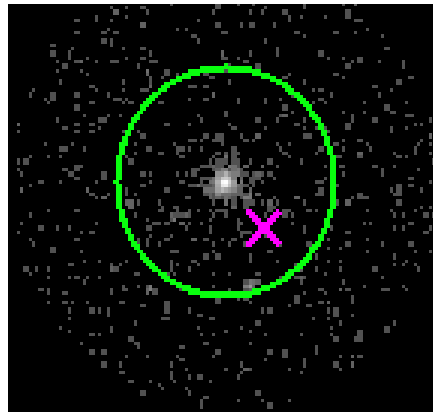


3 Gratings

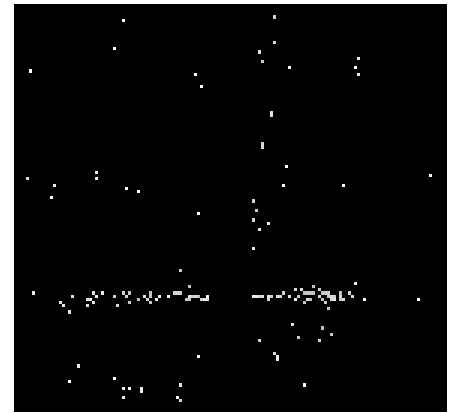
3.1 HEG Arm



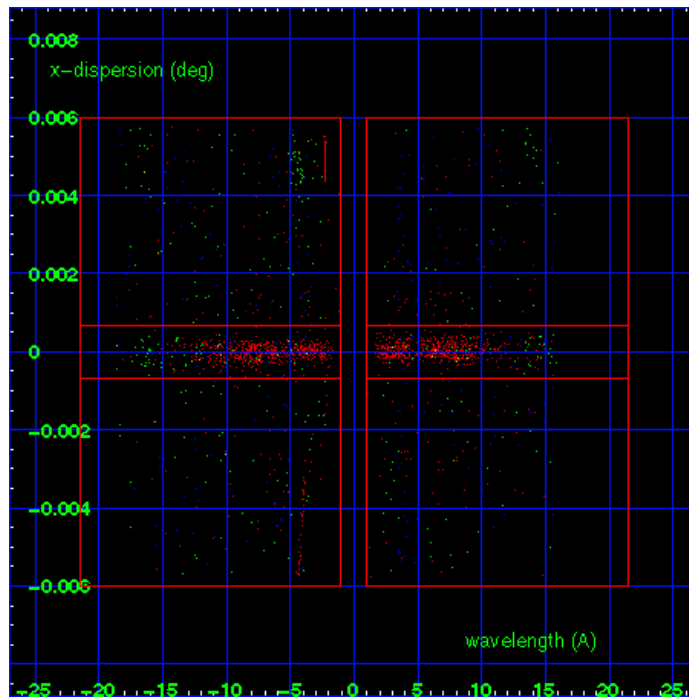
HEG Order Sort 123



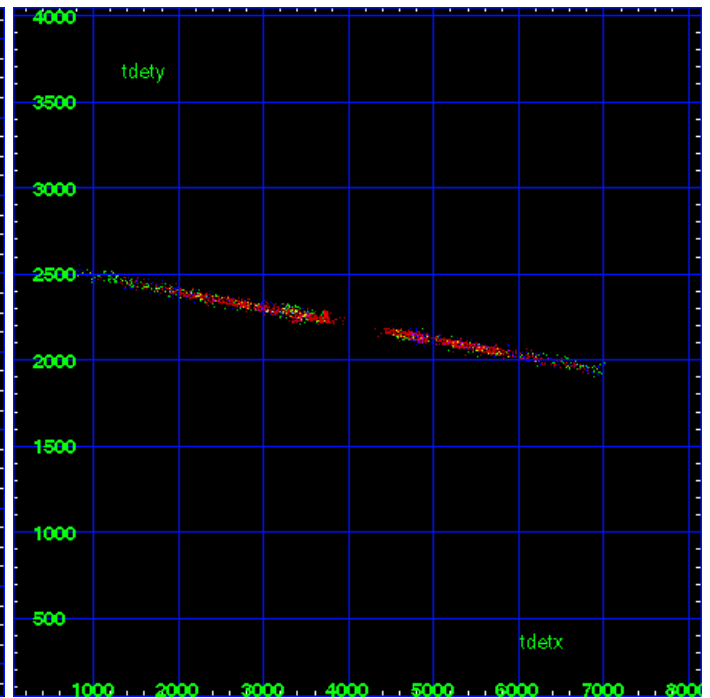
HEG Zero Order



HEG Order Sort ALL

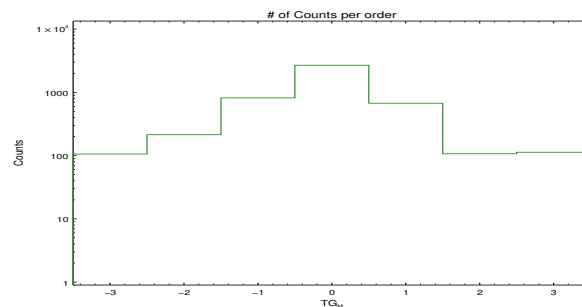


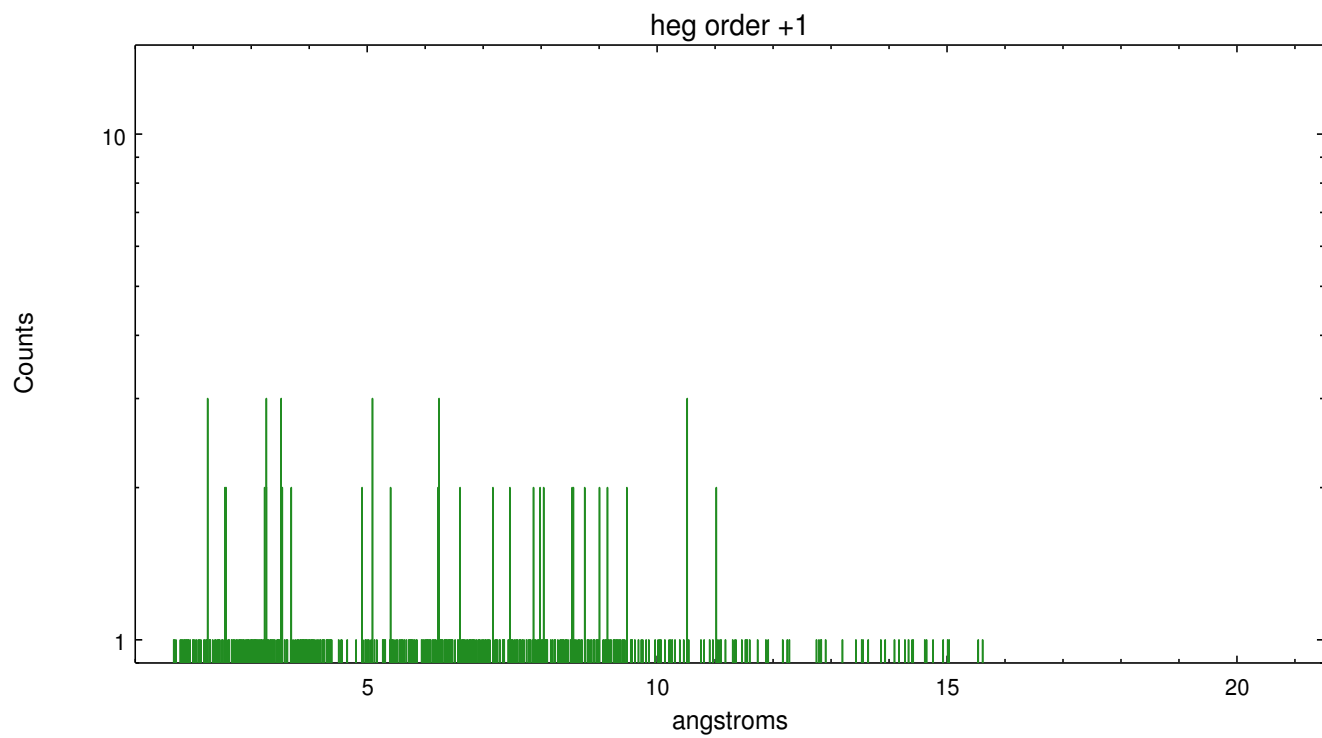
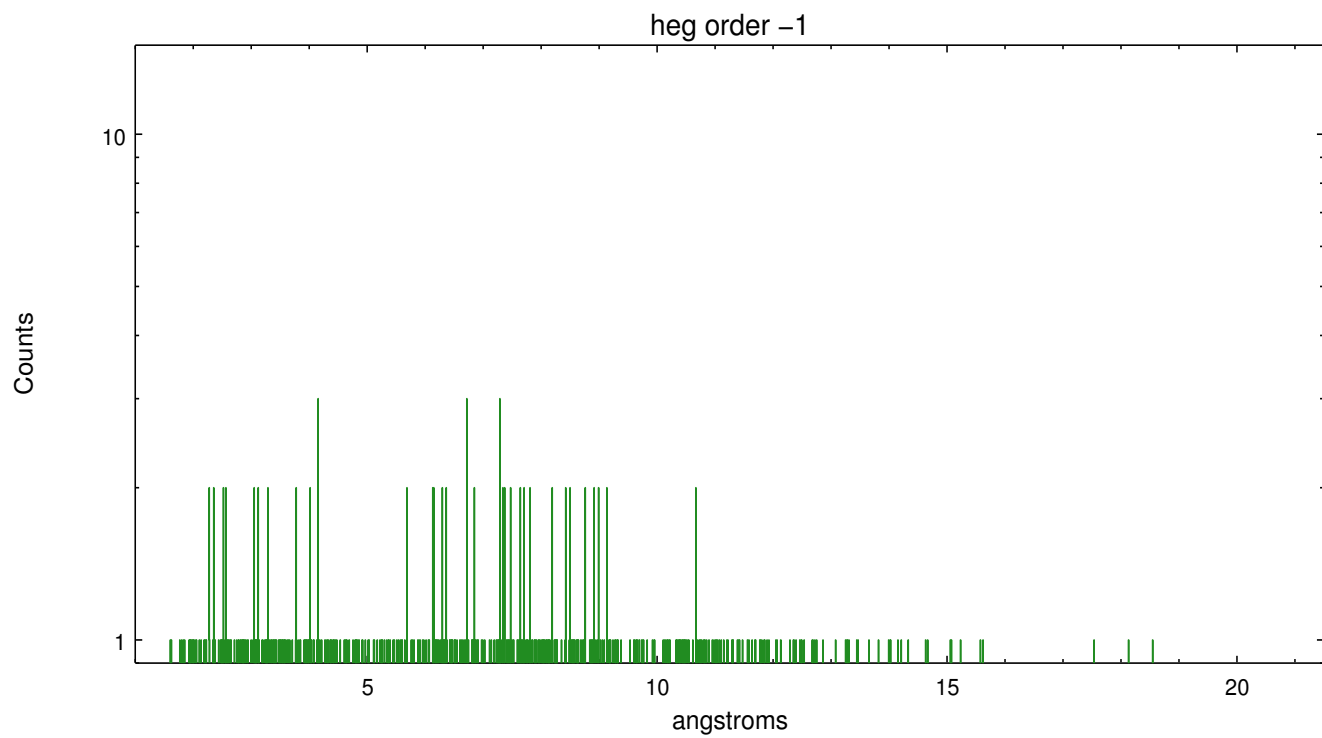
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	106	214	817	2681	673	107	113

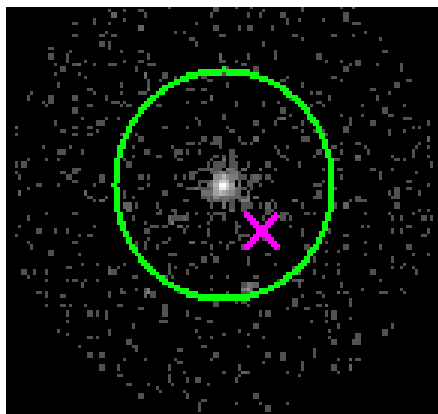




3.2 MEG Arm



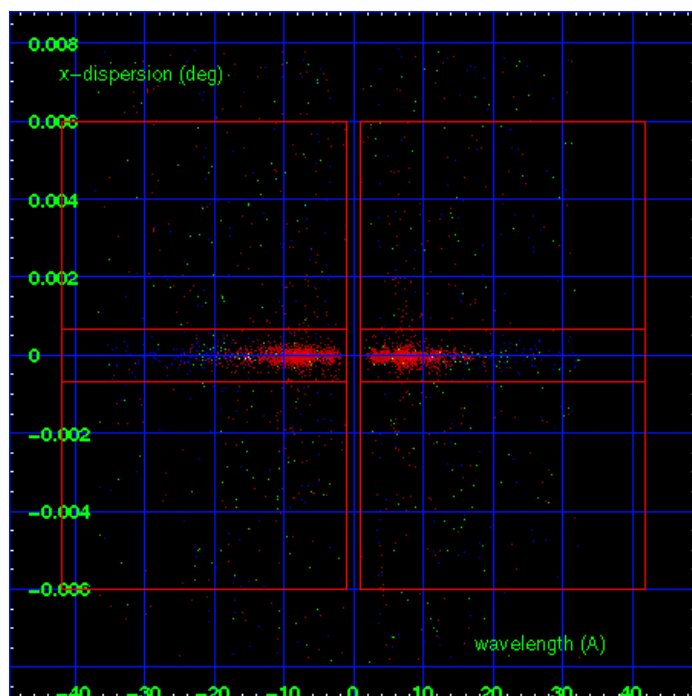
MEG Order Sort 123



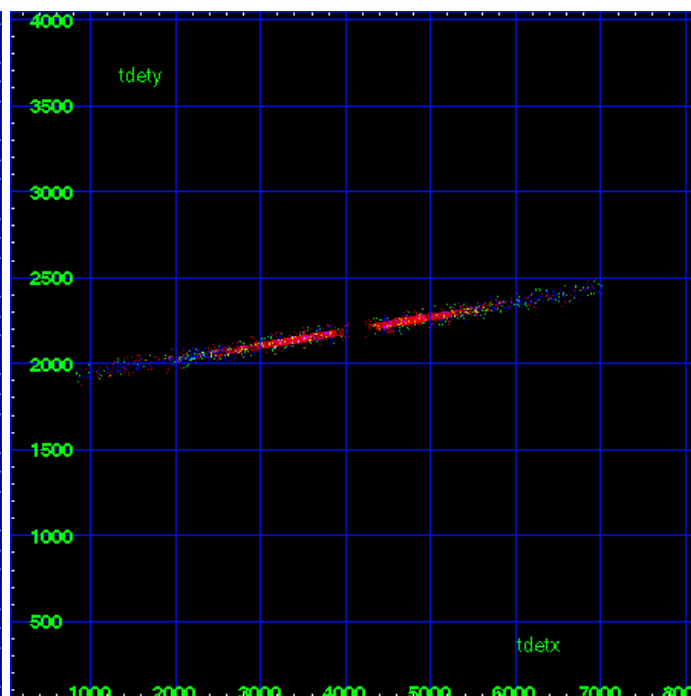
MEG Zero Order



MEG Order Sort ALL

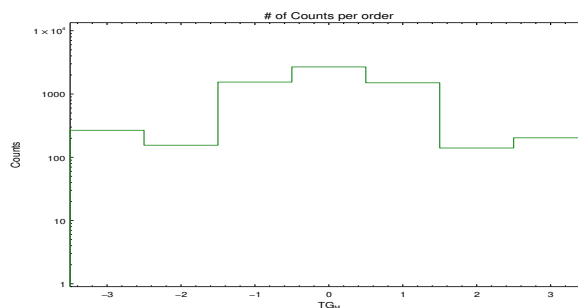


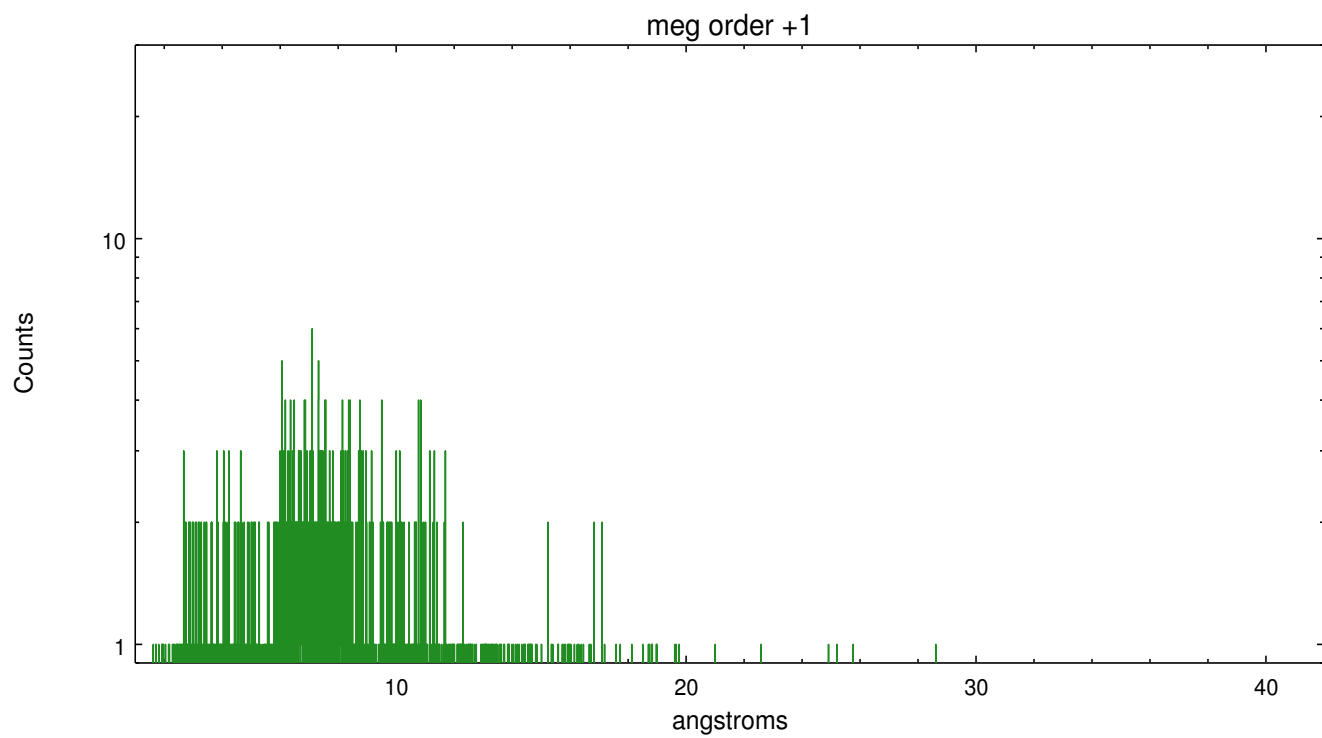
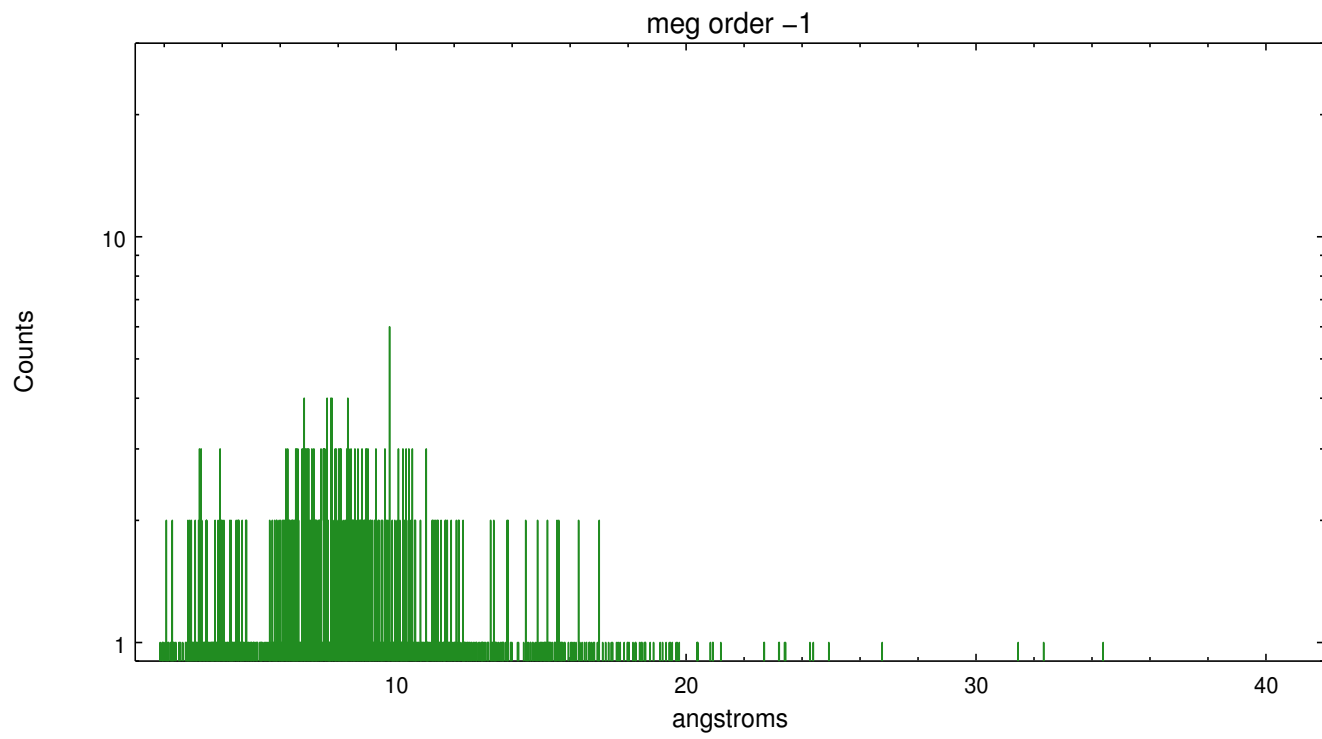
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	267	155	1543	2681	1504	140	203





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.04.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.9503999

A.2 Comments

An additional source in the field has a faint dispersed spectrum and lies near the HEG spectral arm of the target. The source is at 09:55:32.8, +60:00:32.5. A NED search indicates it is a supernova remnant, but not SN1993J, which is also in the field.