

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 6247 - L2 Version 2
Chandra X-Ray Center

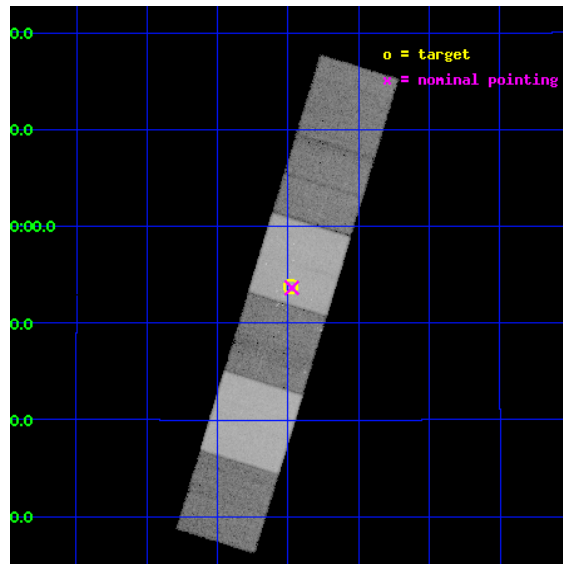
L2 Processing Date : Mar 24 2012

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1 Front

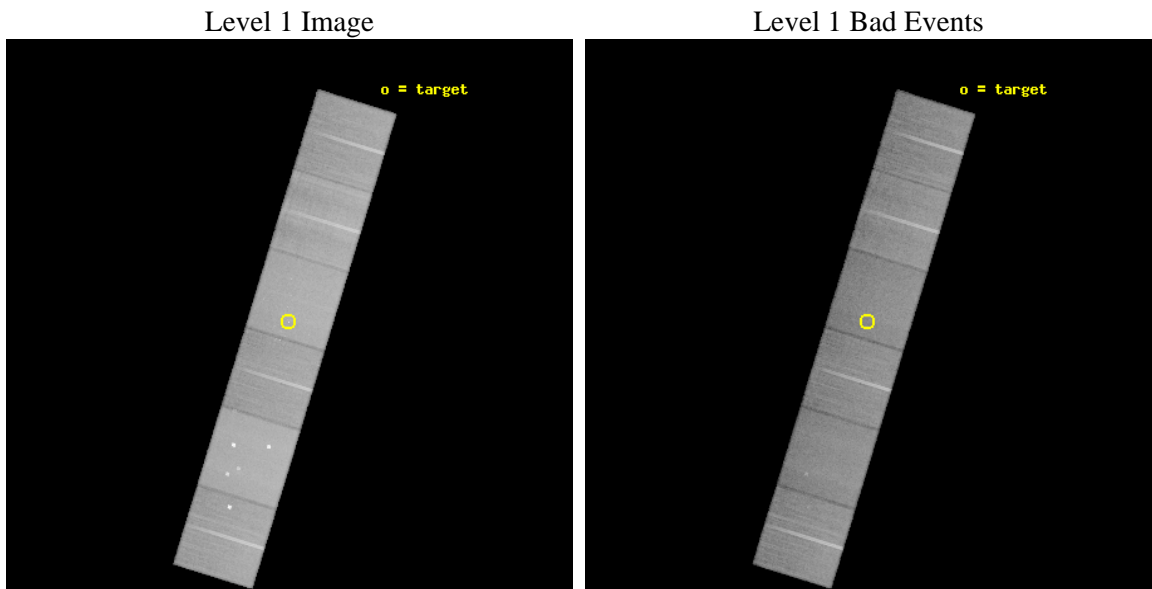
seq_num	200335	Sequence number
obs_id	6247	Observation id
title	A Chandra HETGS Survey of O-Stars	Proposal title
observer	Dr Wayne Waldron	Principal investigator
object	15 Mon	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	100.244583	Observer's specified target RA [deg]
dec_targ	9.89575	Observer's specified target Dec [deg]
ra_nom	100.24334050093	Nominal RA [deg]
dec_nom	9.8940565327422	Nominal Dec [deg]
roll_nom	287.07083224593	Nominal Roll [deg]
revision	2	Processing version of data
ontime	37951.999858618	Sum of GTIs [s]
livetime	37471.428784457	Livetime [s]
ontime4	37951.999858618	Sum of GTIs [s]
ontime5	37951.999858618	Sum of GTIs [s]
ontime6	37951.999858618	Sum of GTIs [s]
ontime7	37951.999858618	Sum of GTIs [s]
ontime8	37951.999858618	Sum of GTIs [s]
ontime9	37951.999858618	Sum of GTIs [s]
l2events	521940	Number of level 2 events



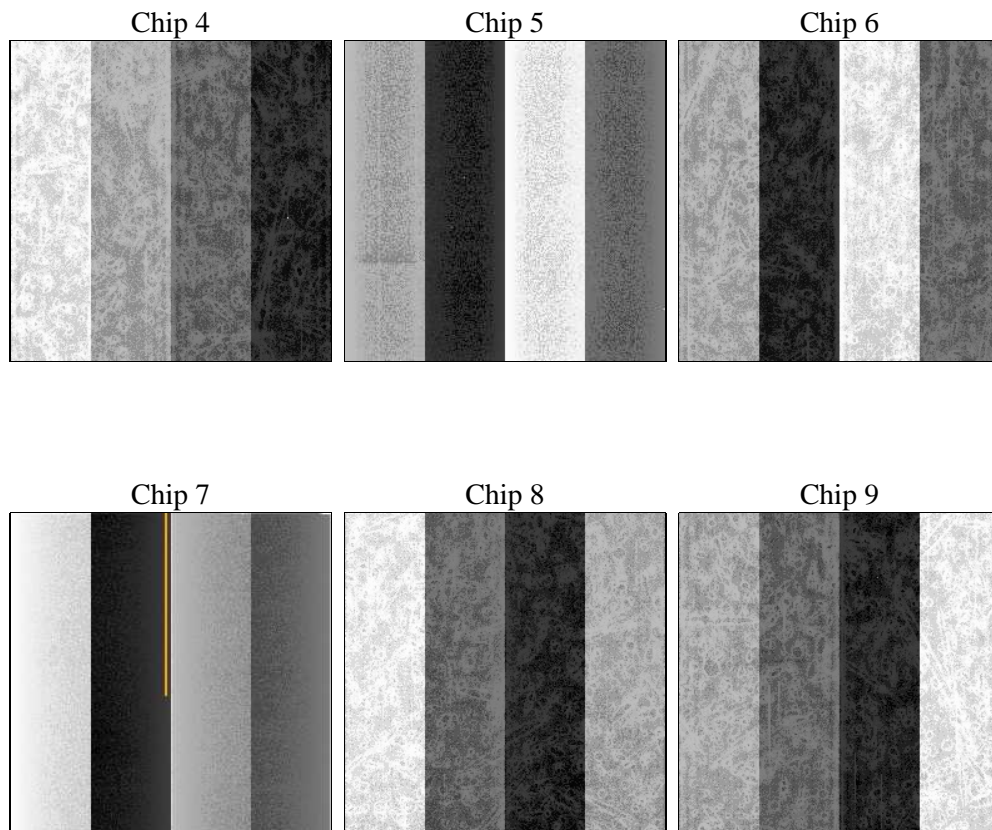
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	38000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	37951.999858618	Sum of GTIs [s]
caldbver	4.4.8	 	ontime4	37951.999858618	Sum of GTIs [s]
date	2012-03-24T08:54:53	Date and time of file creation	ontime5	37951.999858618	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	37951.999858618	Sum of GTIs [s]
			ontime7	37951.999858618	Sum of GTIs [s]
			ontime8	37951.999858618	Sum of GTIs [s]
			ontime9	37951.999858618	Sum of GTIs [s]
			l1events	2333206	Number of level 1 events

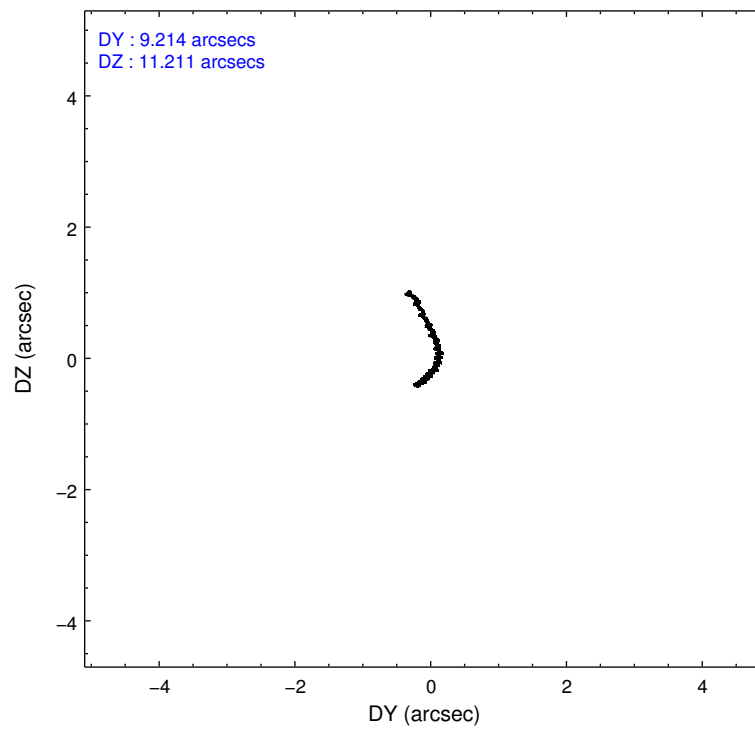
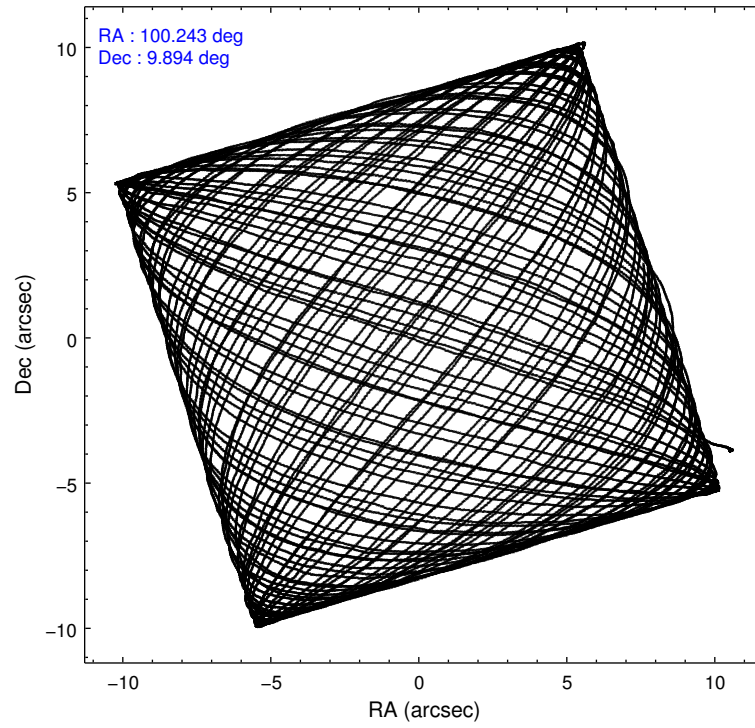
2.1.4 Events

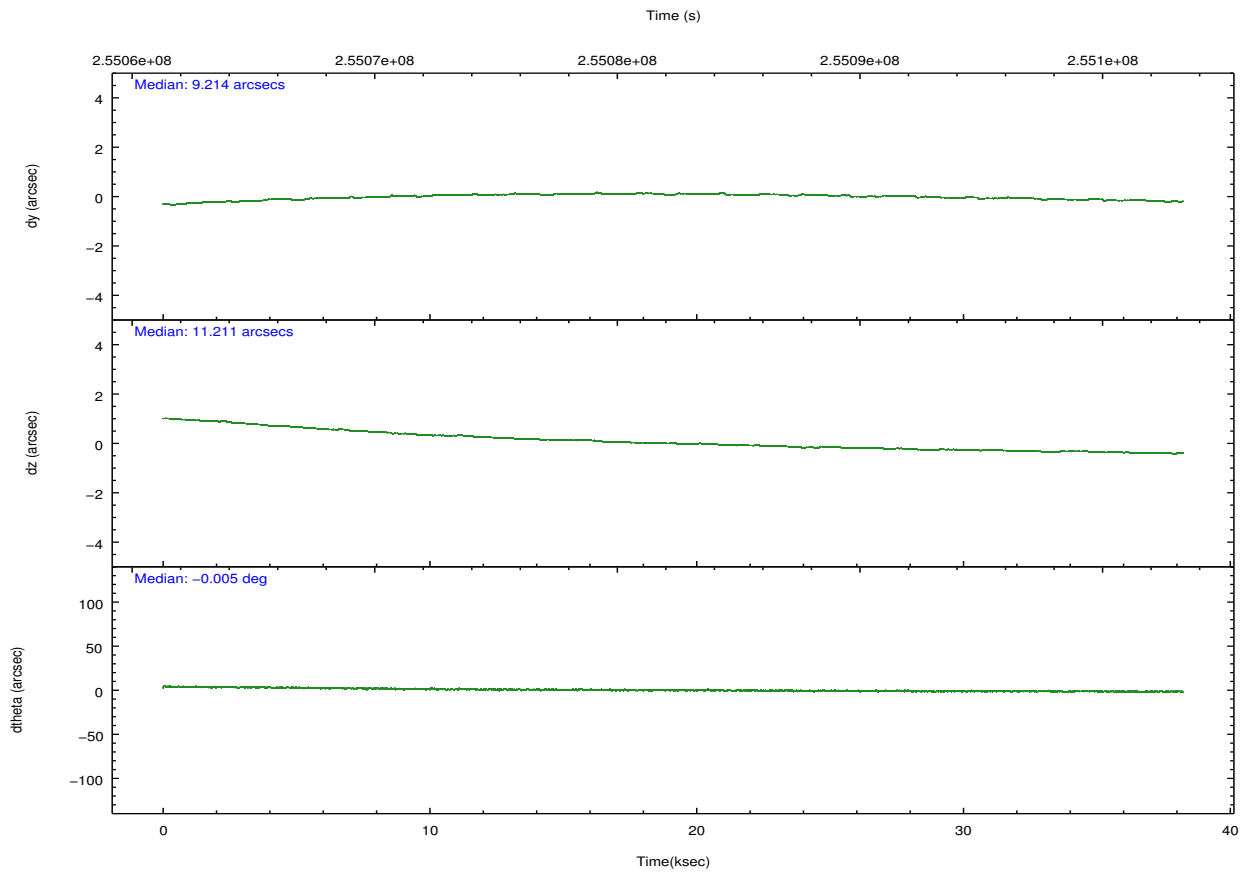
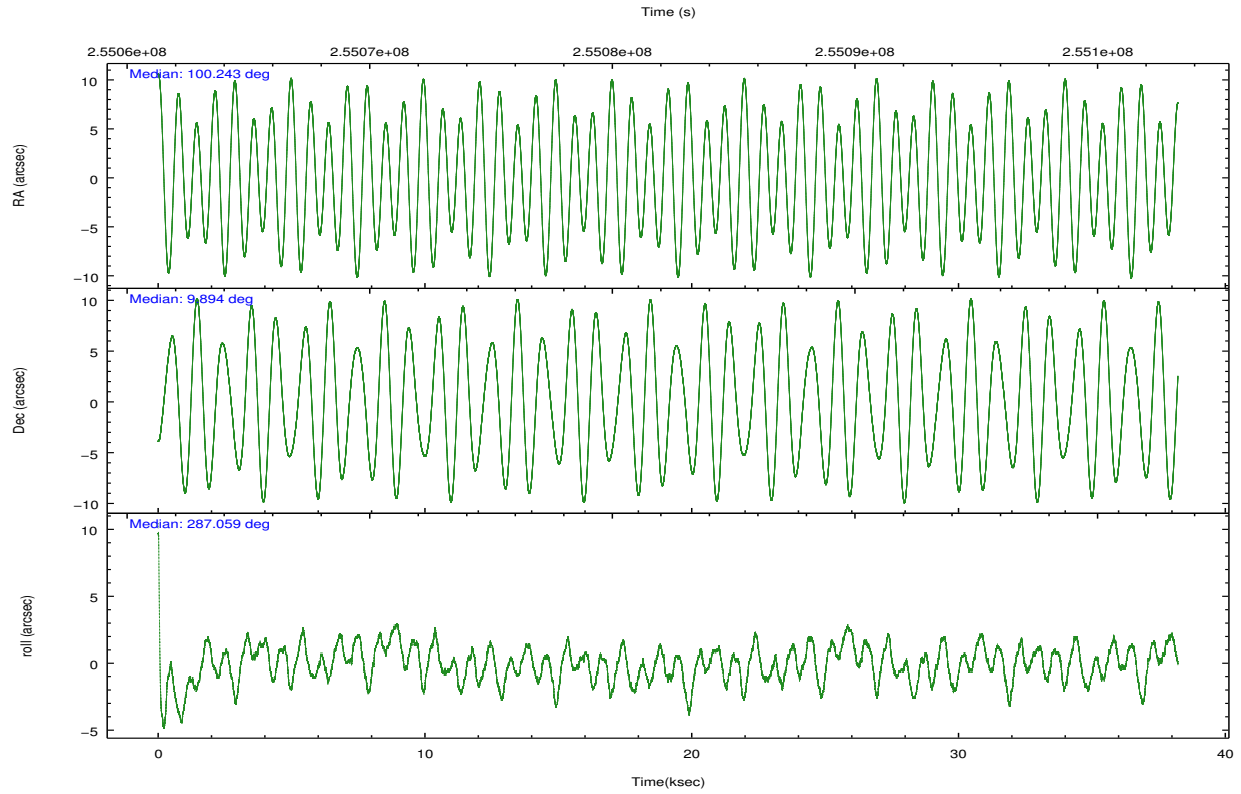
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	358782	495961	321492	436031	407130	313810	grade 0 events	27097	34002	16353	16097	27833	15894
rejected events	309358	262559	281747	254350	319427	275090		7%	6%	5%	3%	6%	5%
rejected %	86%	52%	87%	58%	78%	87%	grade 1 events	413	601	163	433	299	179
								0%	0%	0%	0%	0%	0%
							grade 2 events	8272	66876	8311	36629	19395	7646
								2%	13%	2%	8%	4%	2%
							grade 3 events	4046	8139	3778	15949	9240	3931
								1%	1%	1%	3%	2%	1%
							grade 4 events	3791	7703	3651	15743	8648	3759
								1%	1%	1%	3%	2%	1%
							grade 5 events	14458	34832	15000	41116	19767	15944
								4%	7%	4%	9%	4%	5%
							grade 6 events	6224	116720	7657	97299	22599	7503
								1%	23%	2%	22%	5%	2%
							grade 7 events	294481	227088	266579	212765	299349	258954
								82%	45%	82%	48%	73%	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	100.222831	100.2433405009262	Subarray requested	NONE	NONE
[deg] Pointing Dec	9.912348	9.894056532742217	Alternating exposures requested	N	N
[deg] Pointing Roll	286.917734	287.0708322459307	[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)	255063409.184000	255062370.79904			
Observation start date	2006-01-31T02:55:44	2006-01-31T02:39:30			
[s] Observation end time (MET)	255101409.184000	255102674.31341			
Observation end date	2006-01-31T13:29:04	2006-01-31T13:51:14			
Read mode	TIMED	TIMED			

2.3 Aspect



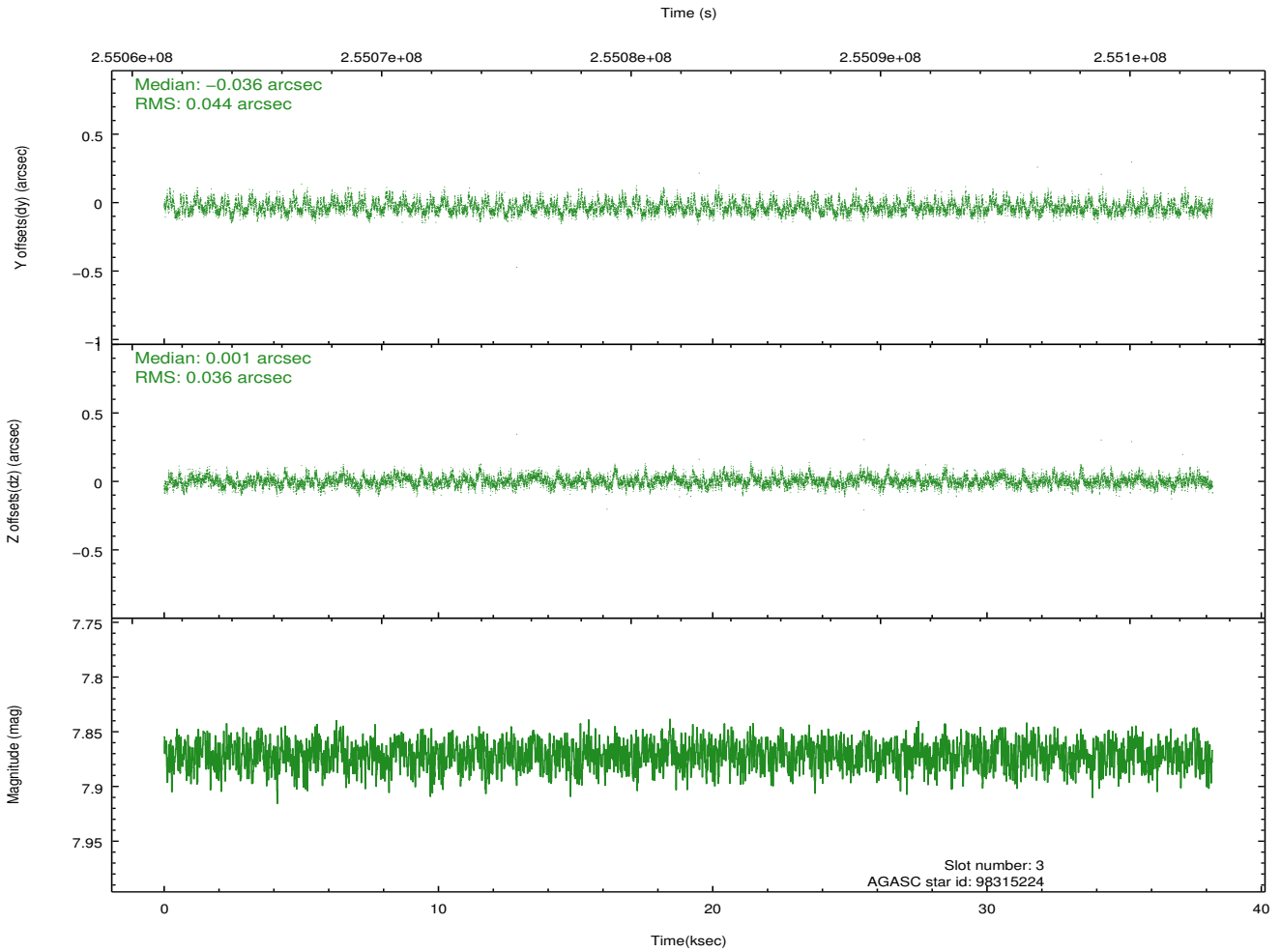
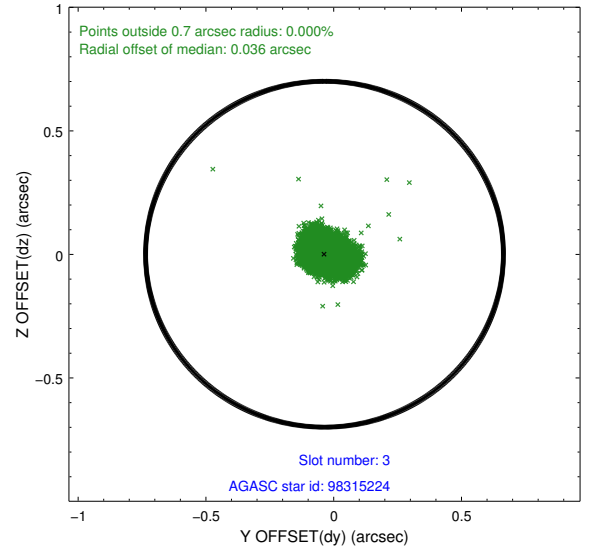
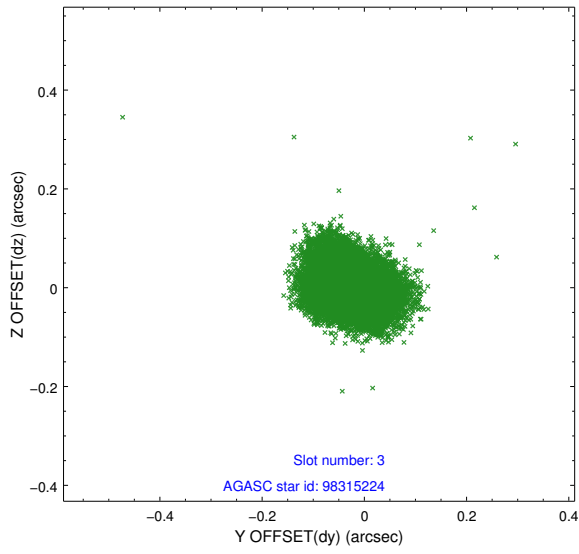


Slot Statistics

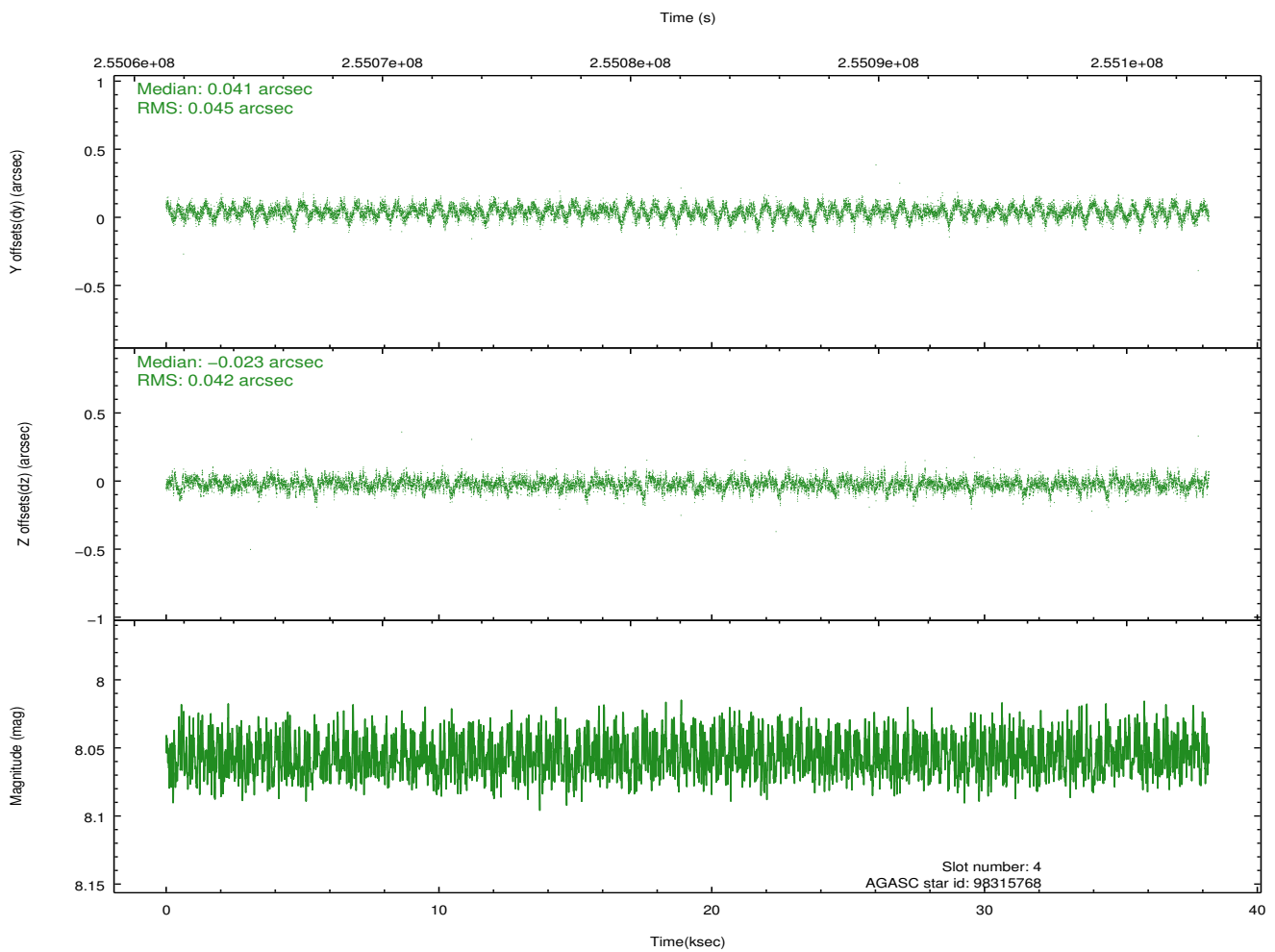
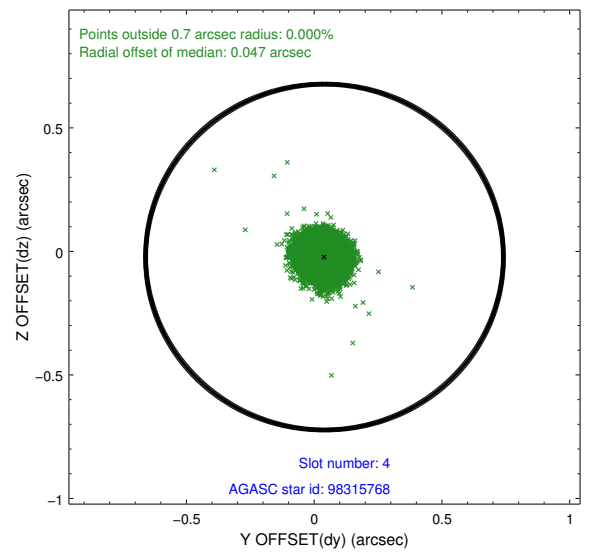
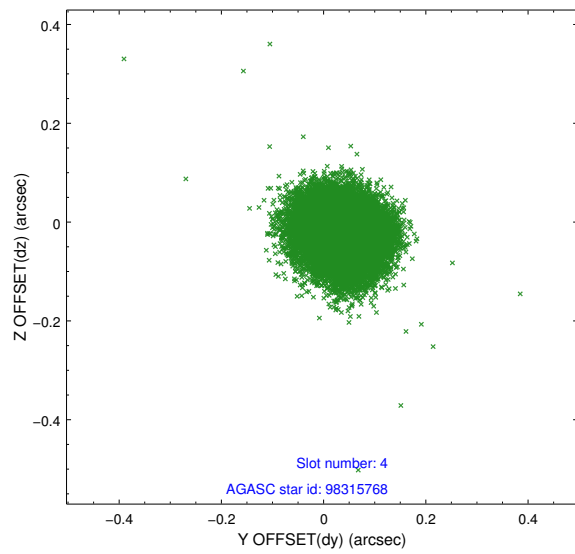
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	9323	-0.039	-0.020	0.011	0.028	0.000000	0.000000	-762.02	-1732.57
1	FID	ACIS-S-4	7.21	9321	0.150	0.024	0.011	0.030	0.000000	0.000000	2151.41	175.97
2	FID	ACIS-S-5	7.23	9321	-0.143	0.004	0.010	0.019	0.000000	0.000000	-1814.96	169.60
3	GUIDE	98315224	7.87	18641	-0.036	0.001	0.060	0.098	100.672922	10.331603	-981.27	1964.64
4	GUIDE	98315768	8.06	18644	0.041	-0.023	0.065	0.104	99.897692	9.752469	214.99	-1270.68
5	GUIDE	98317704	8.43	18642	-0.015	-0.034	0.080	0.131	99.789996	9.529558	871.00	-1870.61
6	GUIDE	98317968	8.36	18641	0.001	0.038	0.061	0.099	100.431114	10.034480	-205.77	834.72
7	GUIDE	98316496	9.19	18624	0.004	0.020	0.082	0.135	100.256516	10.474270	-1900.57	702.81

2.4 Star Slots

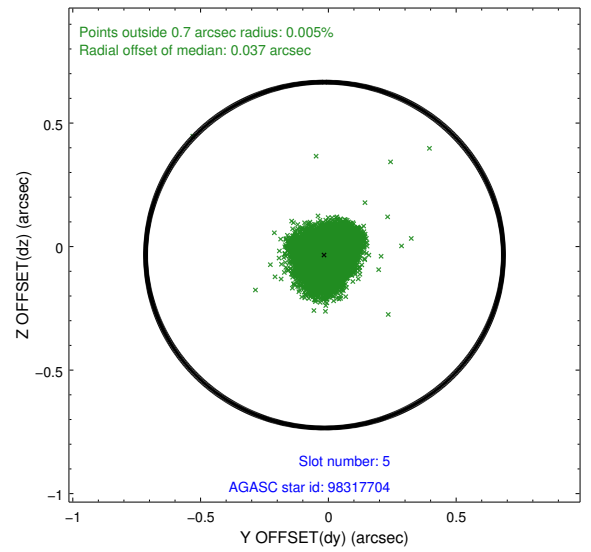
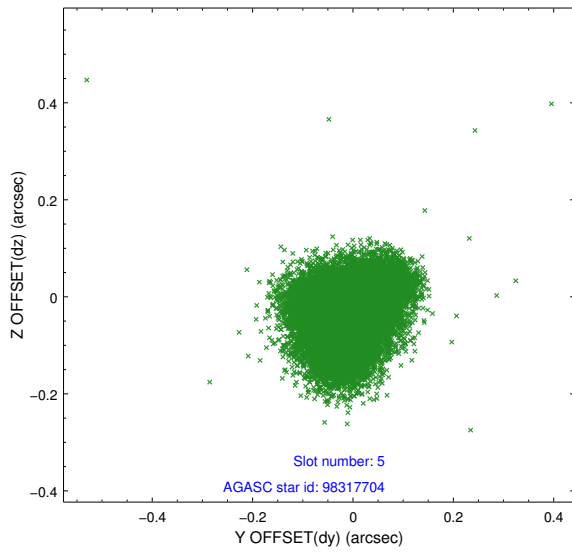
2.4.1 Slot 3



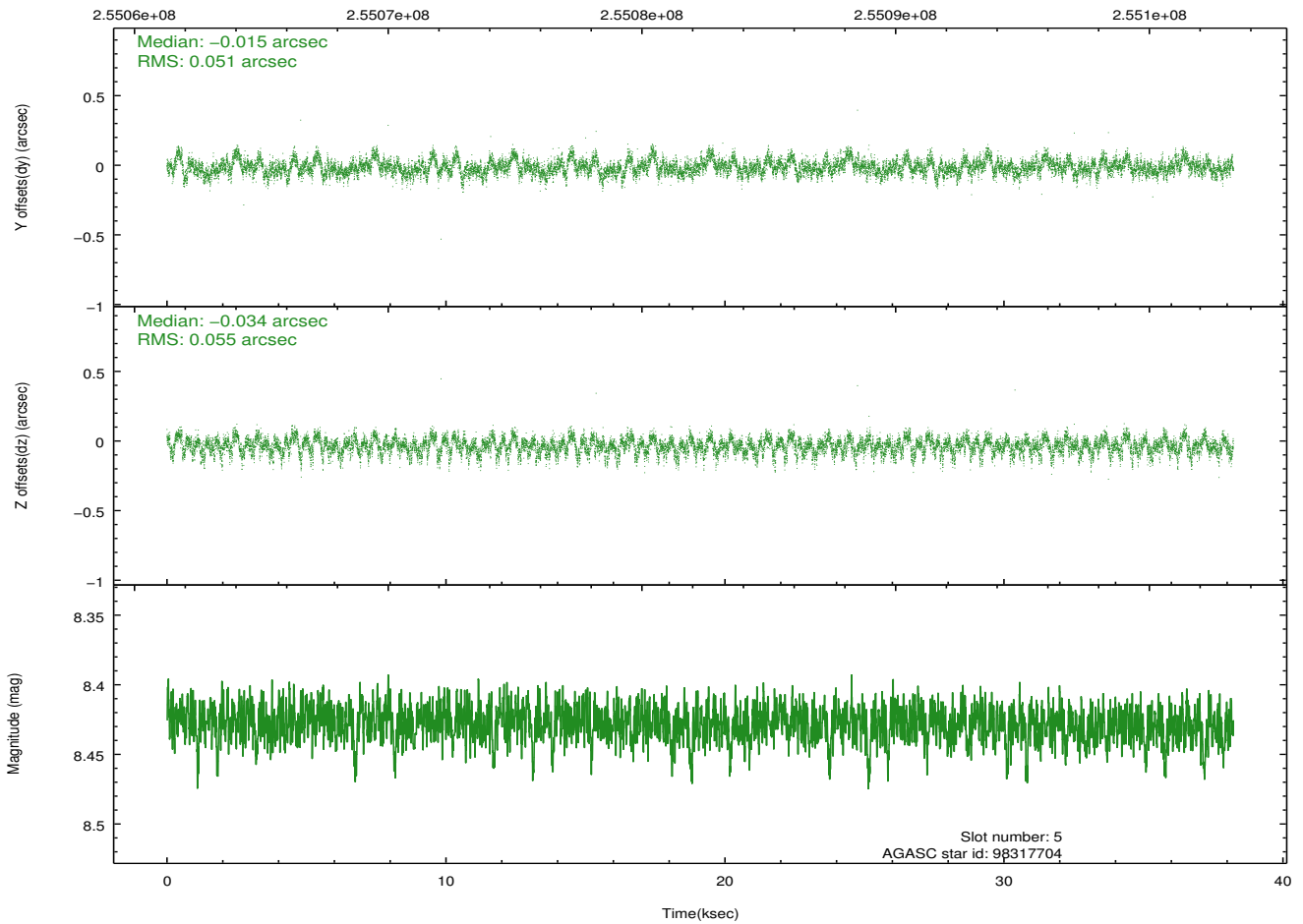
2.4.2 Slot 4



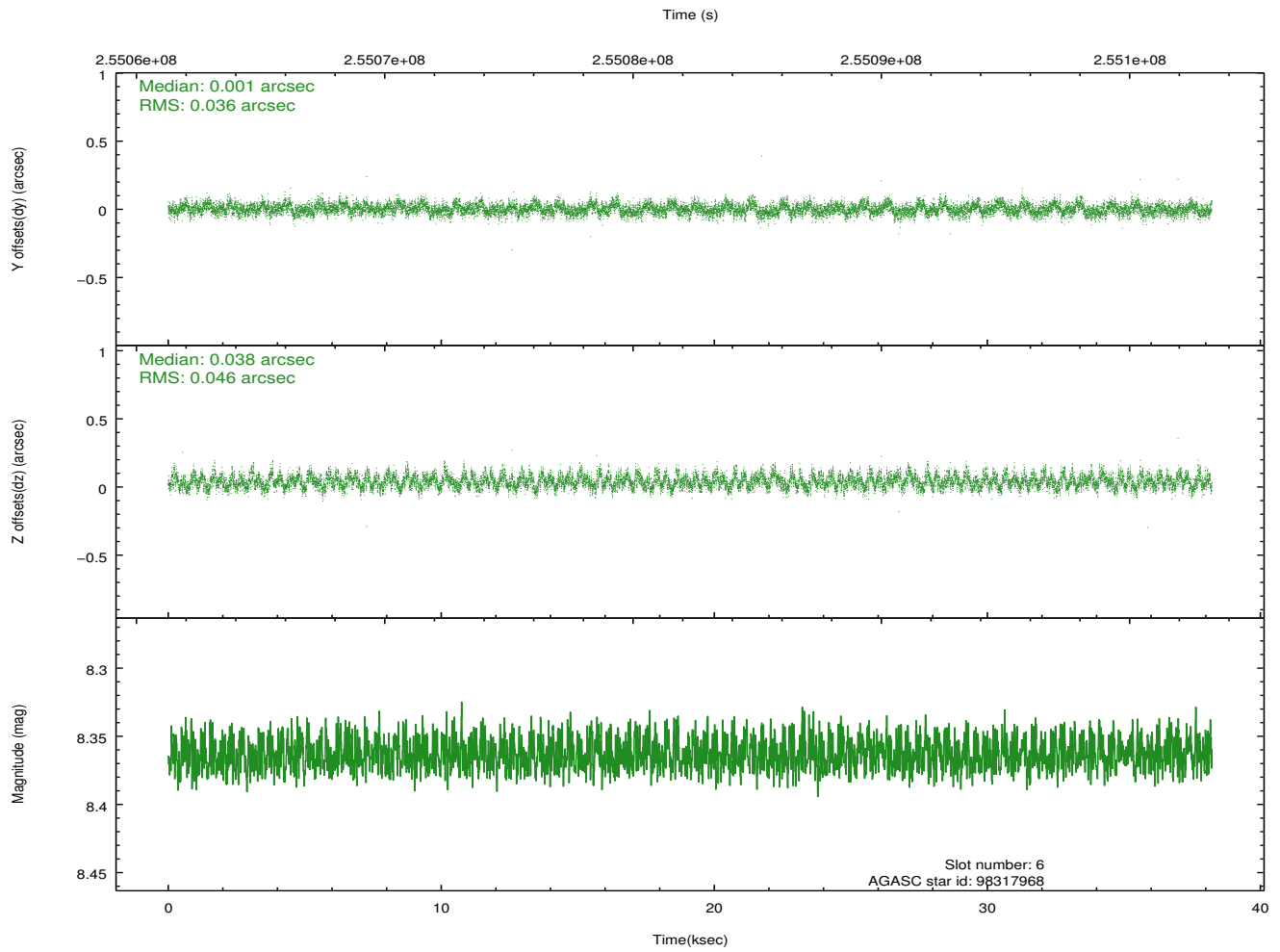
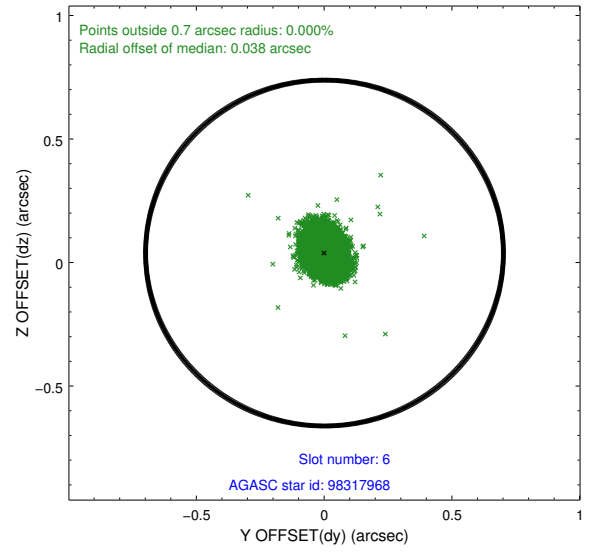
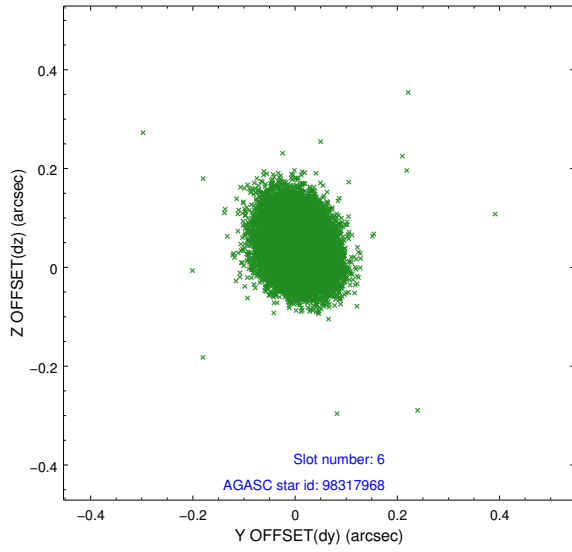
2.4.3 Slot 5



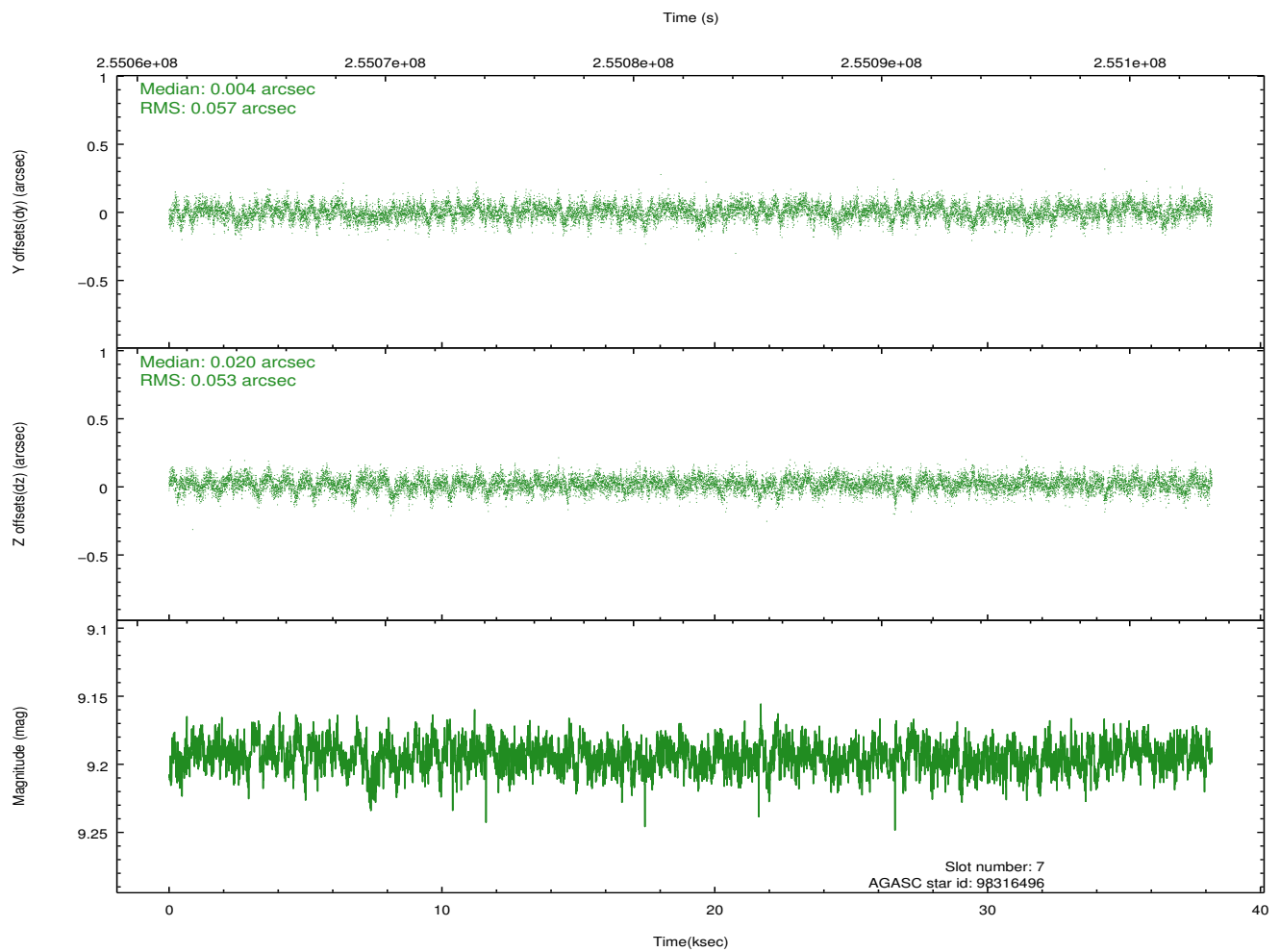
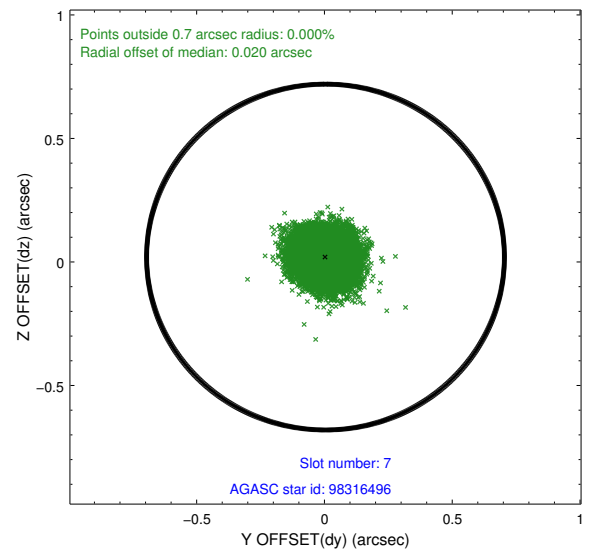
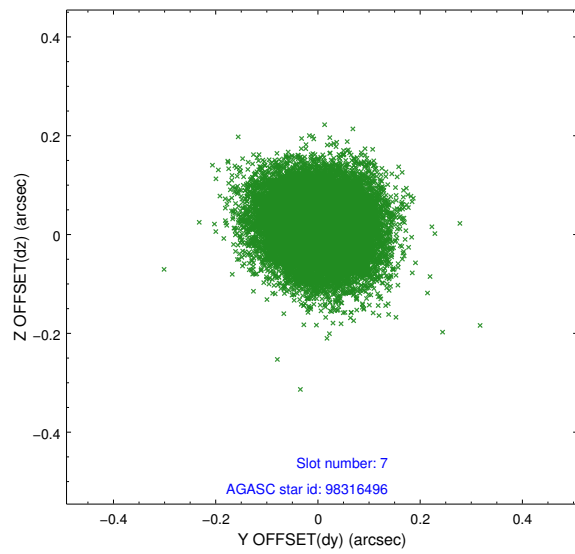
Time (s)



2.4.4 Slot 6

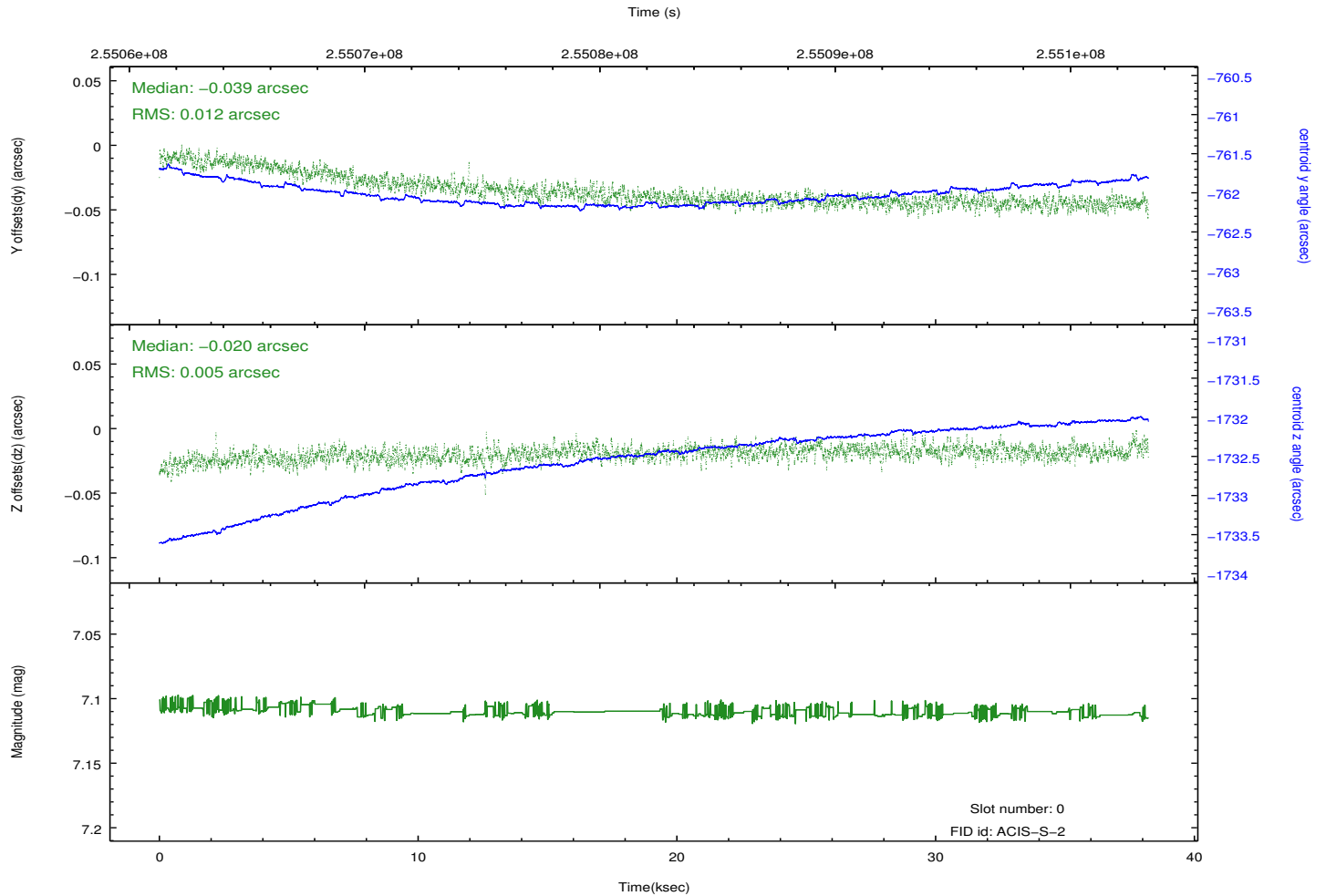
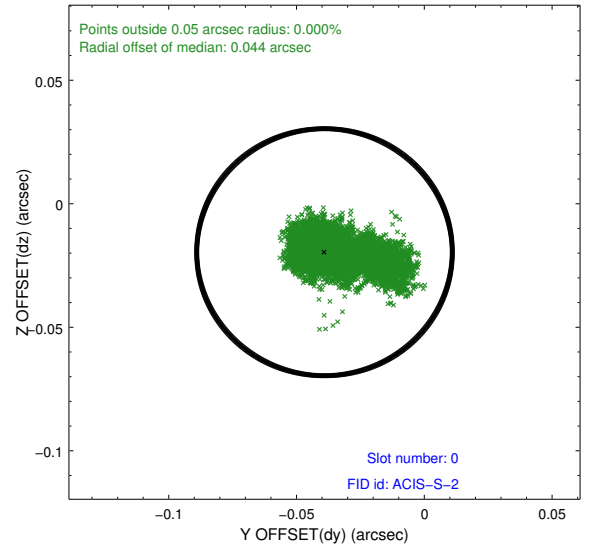
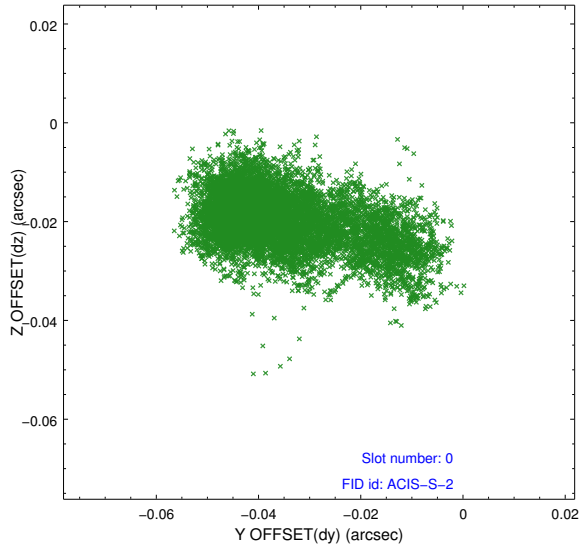


2.4.5 Slot 7

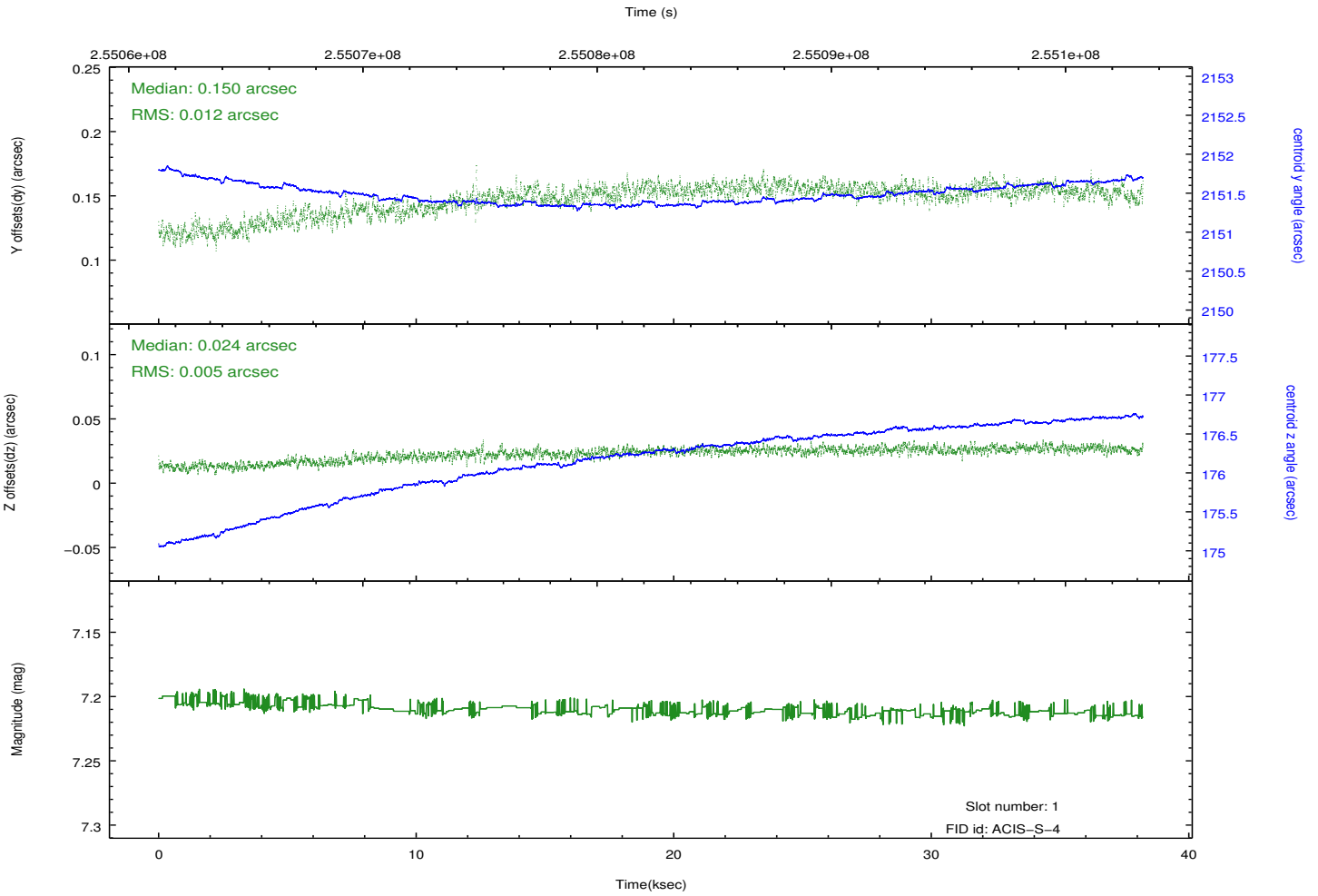
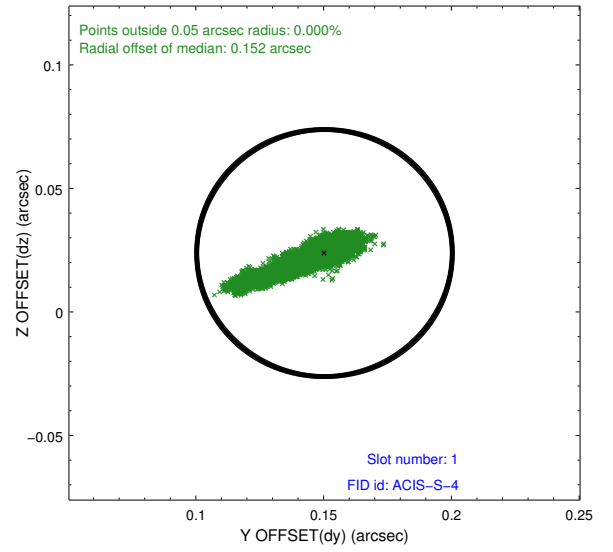
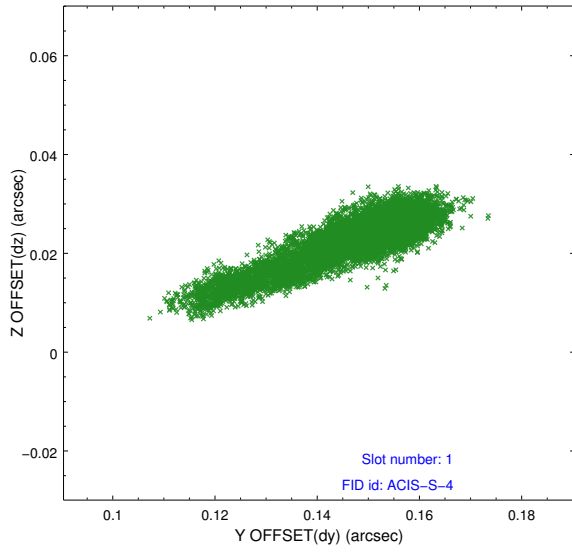


2.5 FID Slots

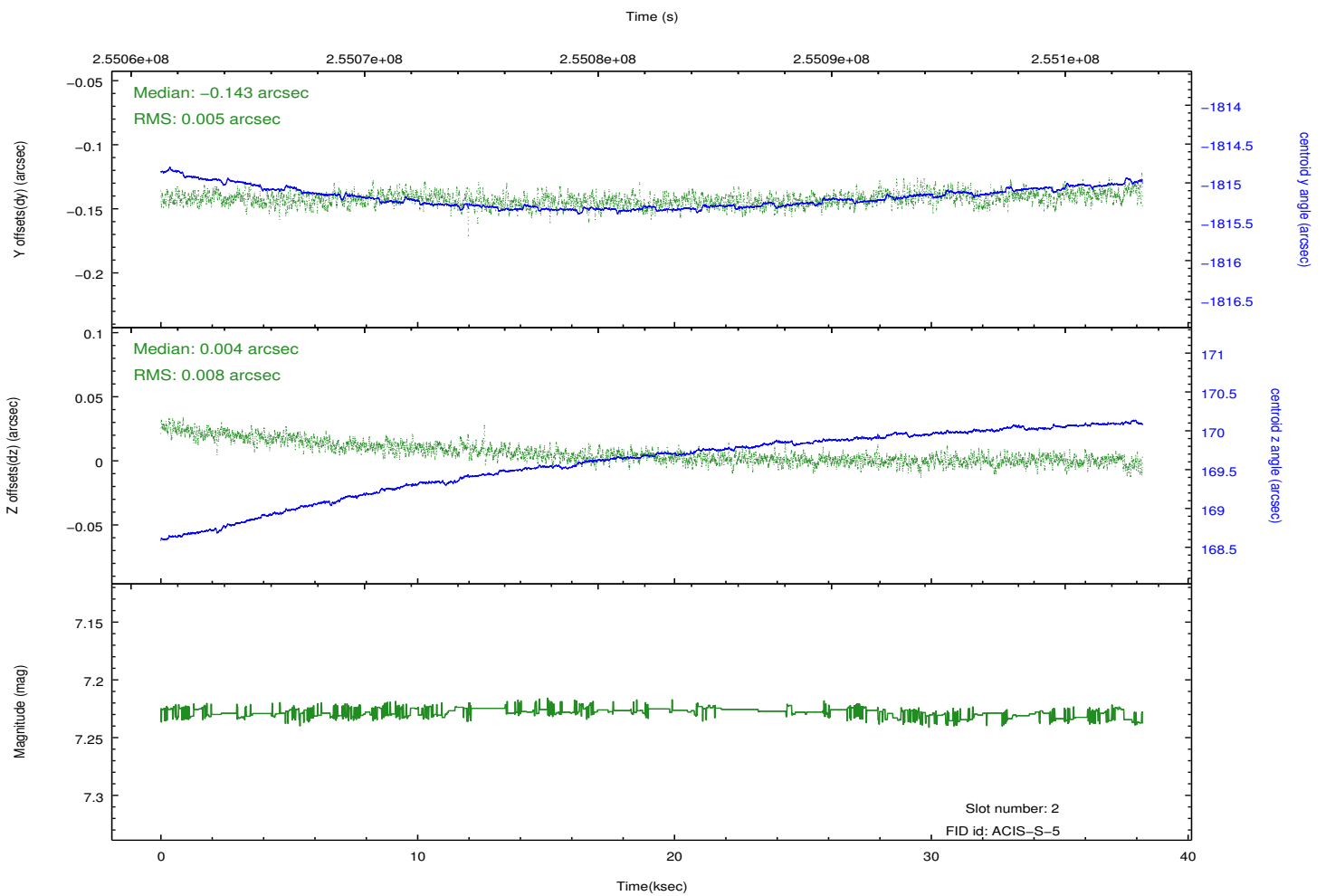
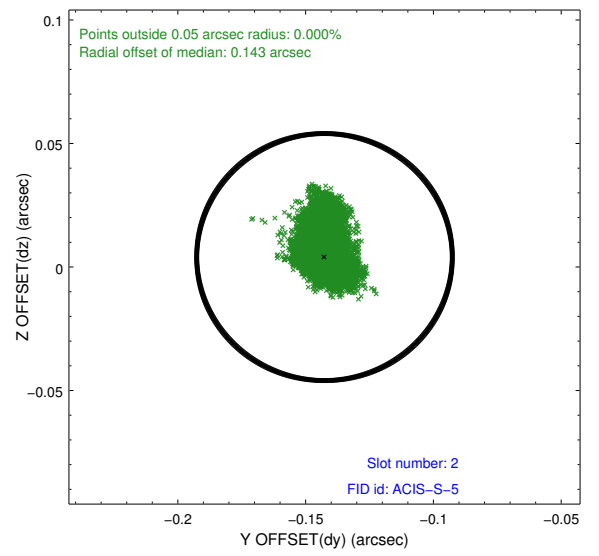
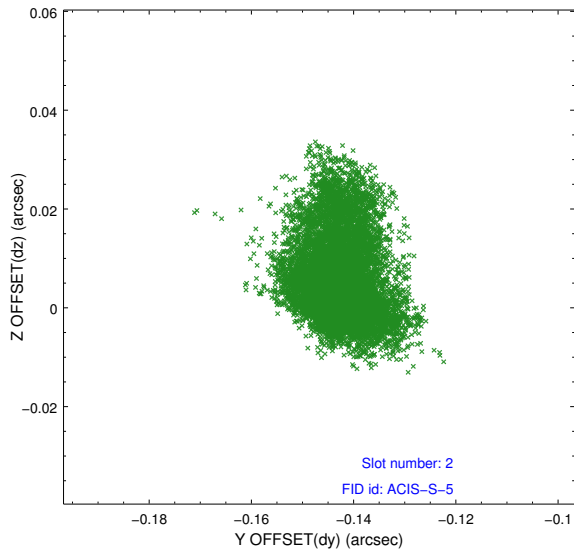
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

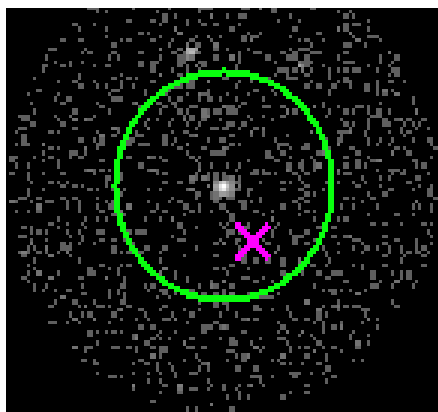


3 Gratings

3.1 HEG Arm



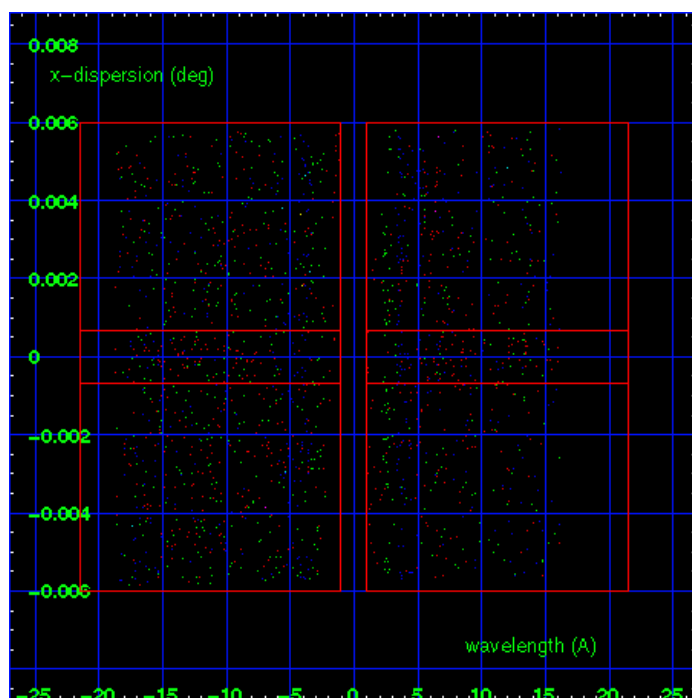
HEG Order Sort 123



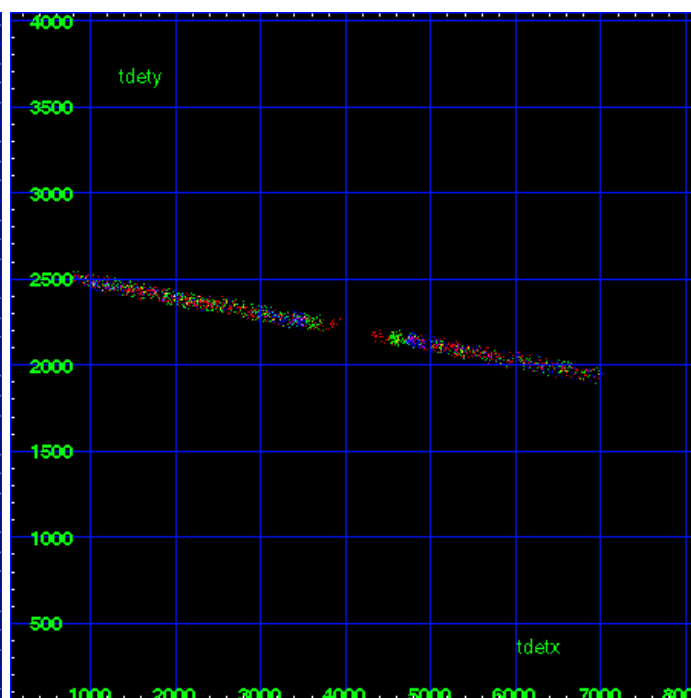
HEG Zero Order



HEG Order Sort ALL

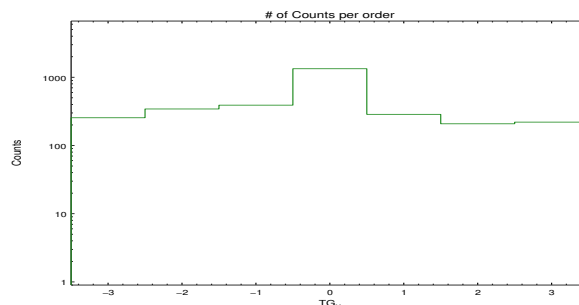


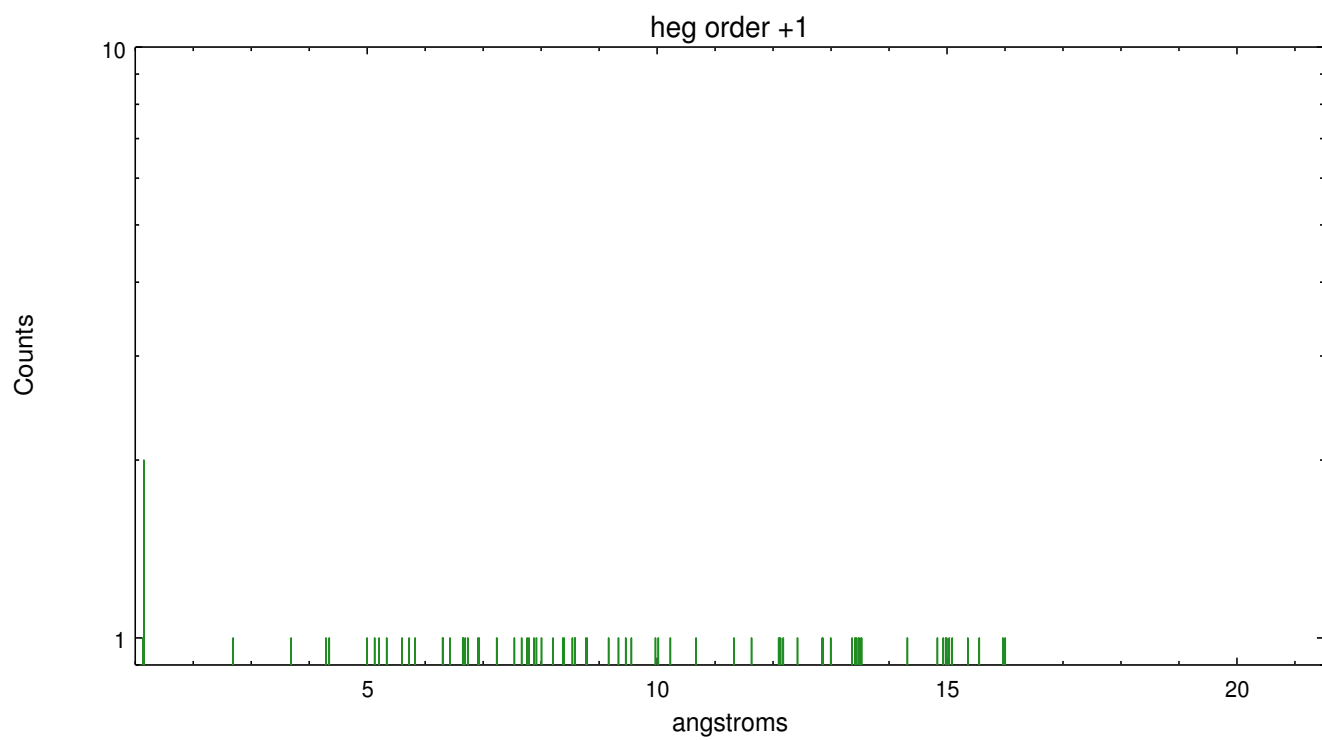
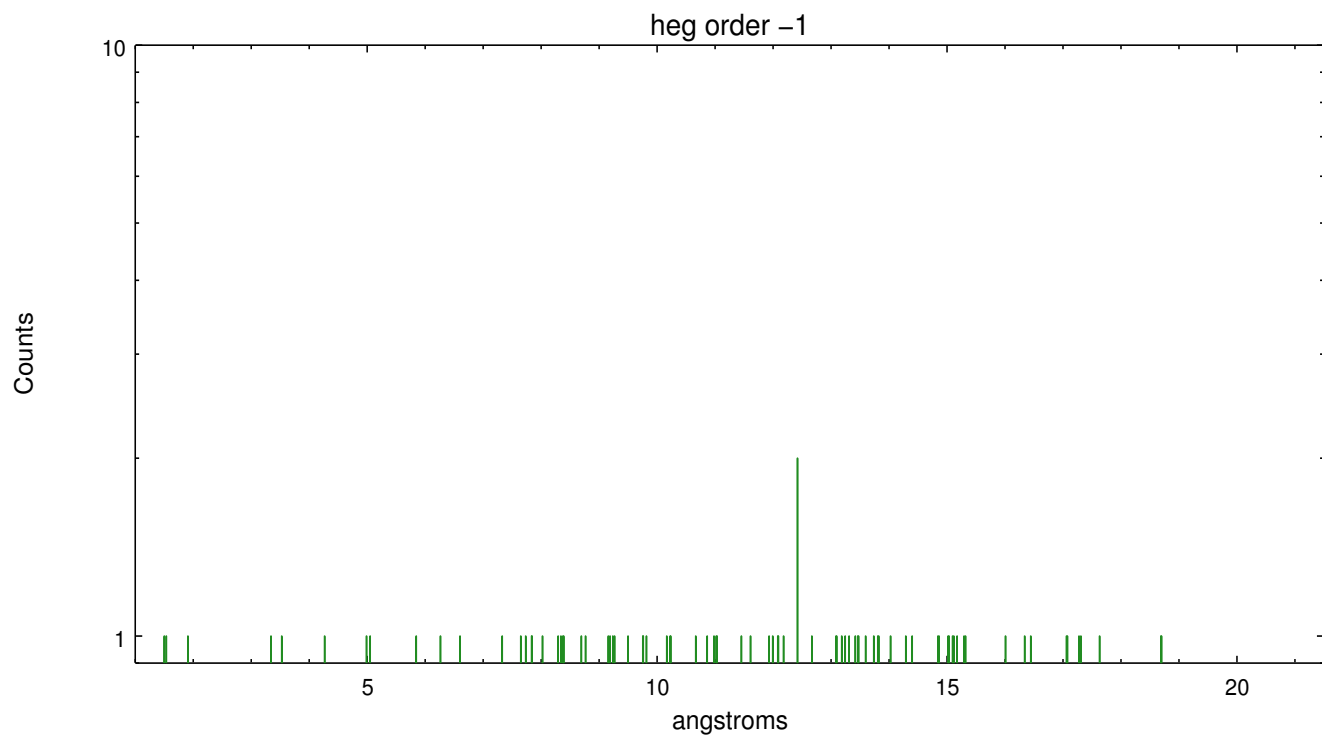
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	255	343	390	1334	286	208	220

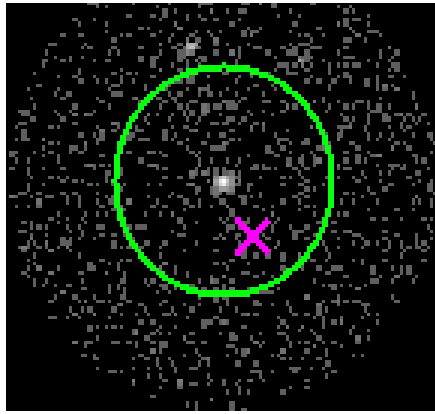




3.2 MEG Arm



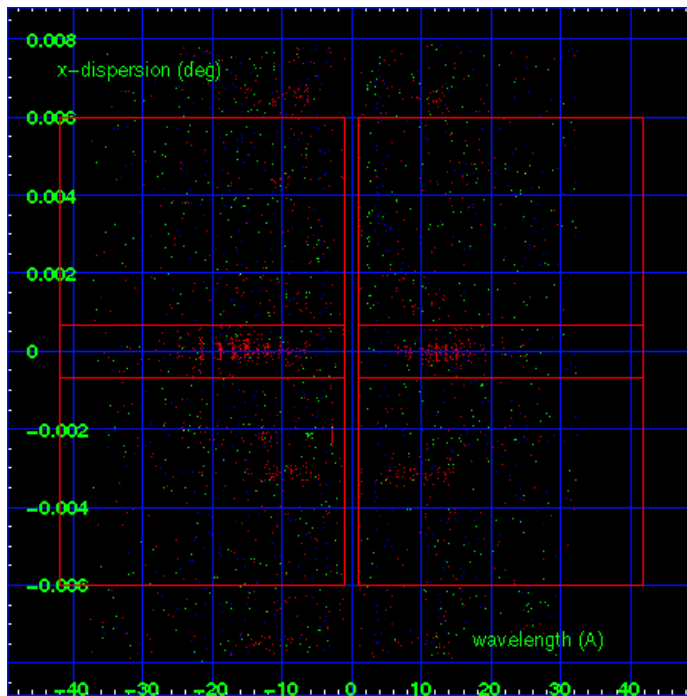
MEG Order Sort 123



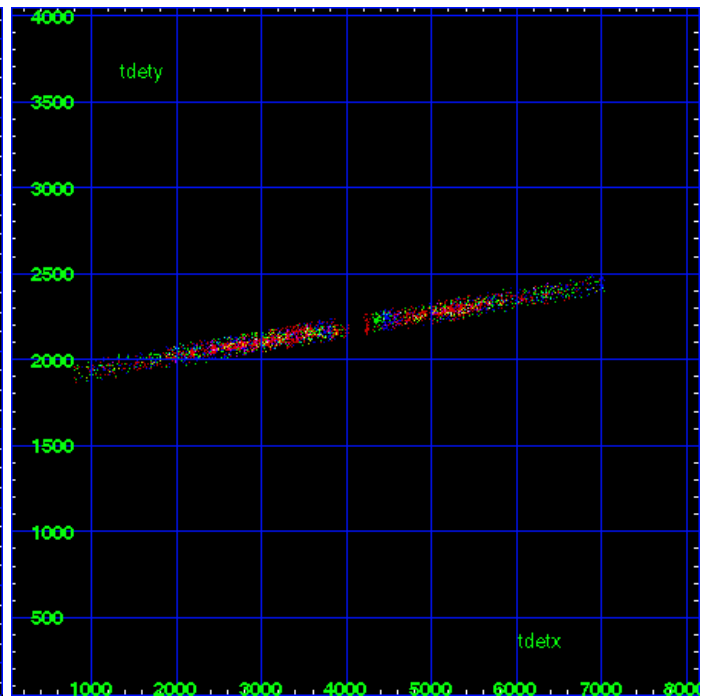
MEG Zero Order



MEG Order Sort ALL

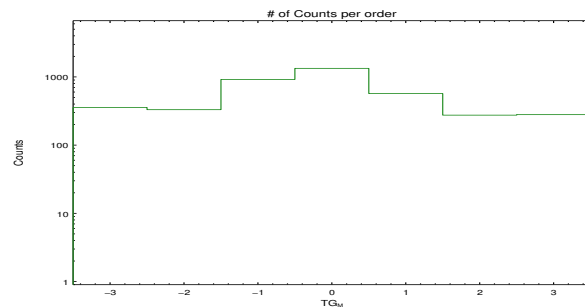


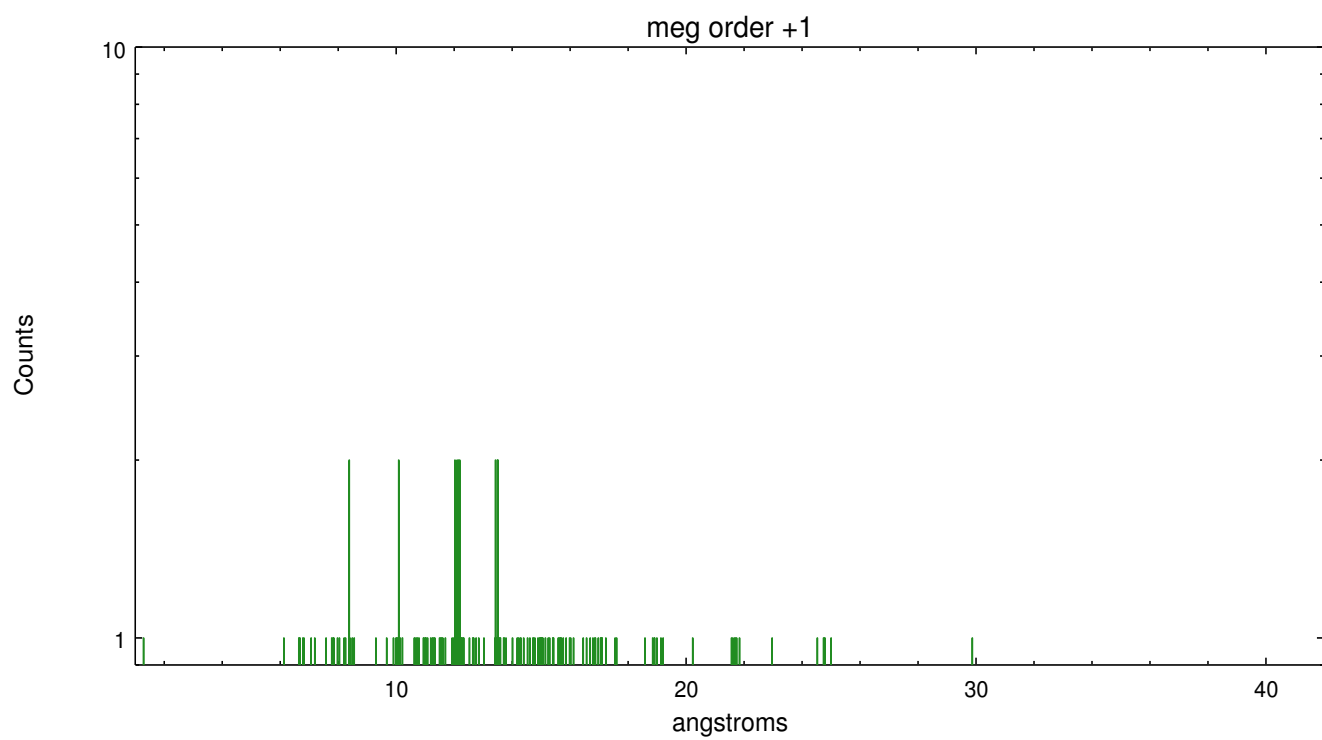
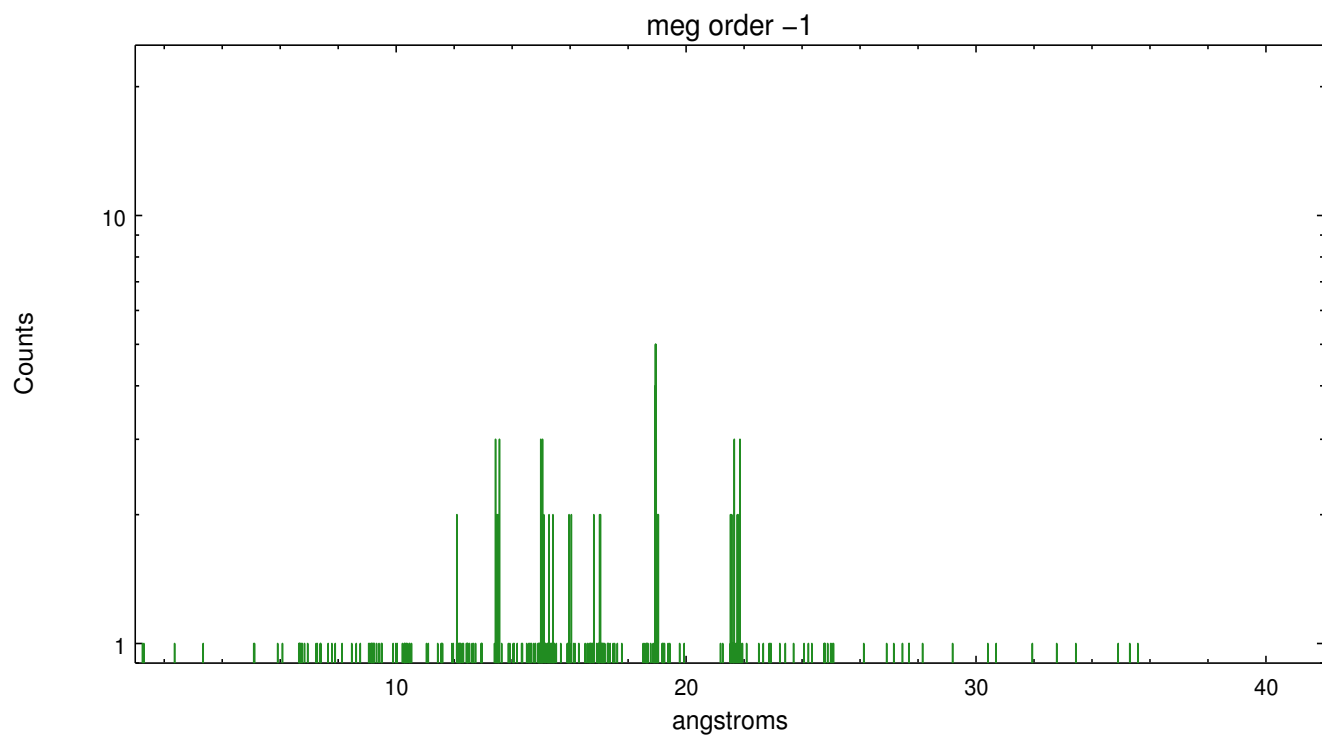
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	356	331	918	1334	570	275	280





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.03.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.9519998

A.2 Comments

Multiple sources in the field may cause contamination of the primary extraction at some wavelengths. Extraction is of 15 Mon.