

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12032 - L2 Version 2
Chandra X-Ray Center

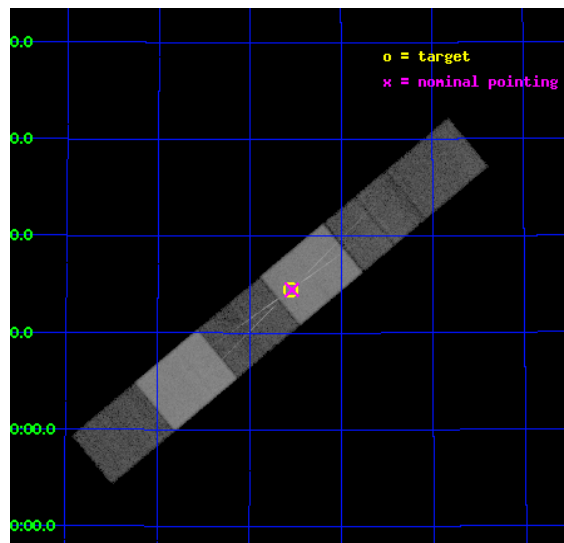
L2 Processing Date : Jun 17 2012

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1 Front

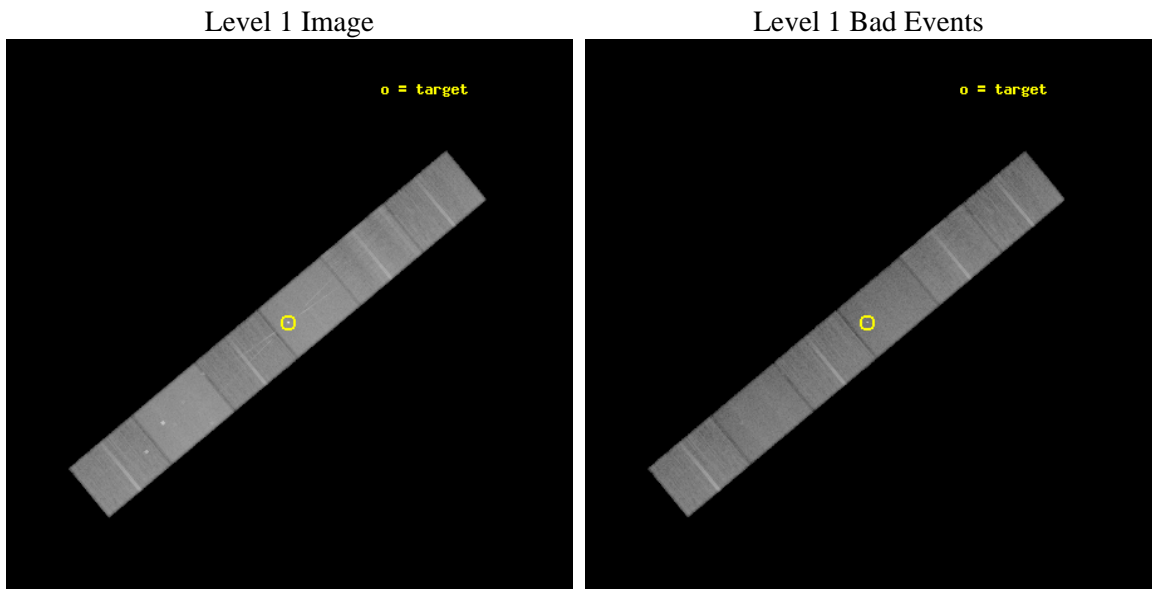
seq_num	300255	Sequence number
obs_id	12032	Observation id
title	The Nature of the Soft Component in the Symbiotic Star CH Cygni	Pr
observer	Dr Koji Mukai	Principal investigator
object	CH Cygni	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	291.137917	Observer's specified target RA [deg]
dec_targ	50.241417	Observer's specified target Dec [deg]
ra_nom	291.13464101429	Nominal RA [deg]
dec_nom	50.241066475144	Nominal Dec [deg]
roll_nom	320.15915148044	Nominal Roll [deg]
revision	2	Processing version of data
ontime	27464.750383377	Sum of GTIs [s]
livetime	27021.170842821	Livetime [s]
ontime4	27464.79142338	Sum of GTIs [s]
ontime5	27464.709343374	Sum of GTIs [s]
ontime6	27464.66830337	Sum of GTIs [s]
ontime7	27464.750383377	Sum of GTIs [s]
ontime8	27464.627263367	Sum of GTIs [s]
ontime9	27464.586223364	Sum of GTIs [s]
l2events	400298	Number of level 2 events



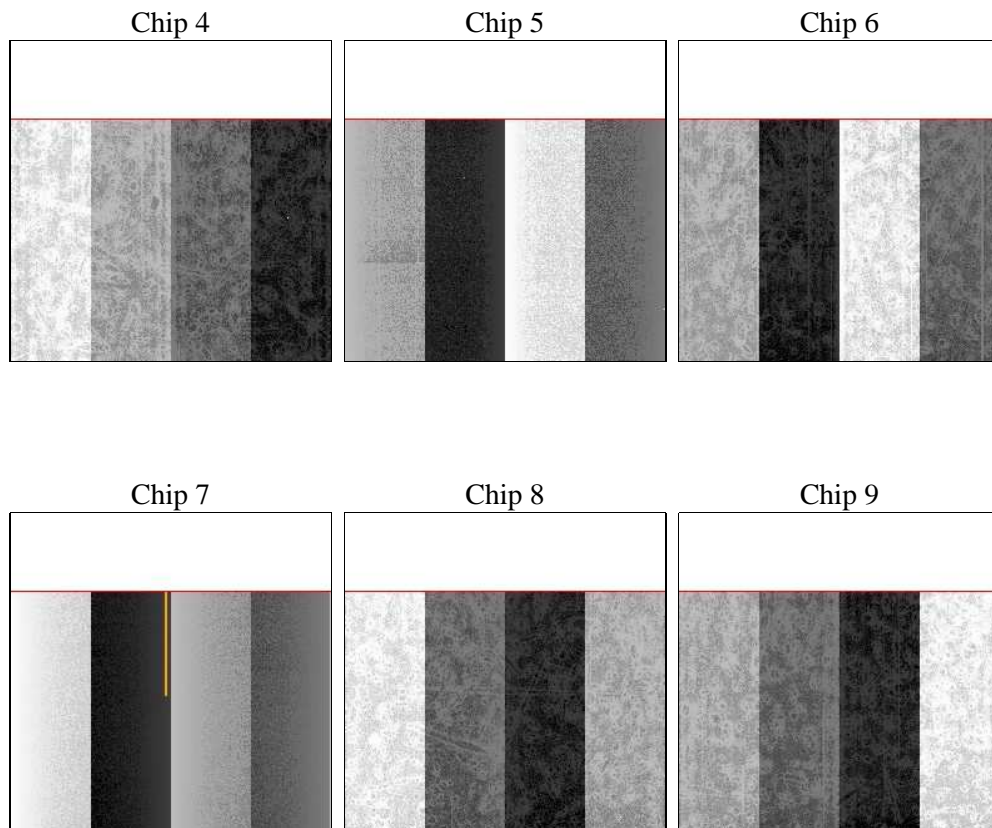
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27358.207000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	27464.750383377	Sum of GTIs [s]
caldbver	4.4.10	 	ontime4	27464.79142338	Sum of GTIs [s]
date	2012-06-17T17:25:01	Date and time of file creation	ontime5	27464.709343374	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	27464.66830337	Sum of GTIs [s]
			ontime7	27464.750383377	Sum of GTIs [s]
			ontime8	27464.627263367	Sum of GTIs [s]
			ontime9	27464.586223364	Sum of GTIs [s]
			l1events	1655335	Number of level 1 events

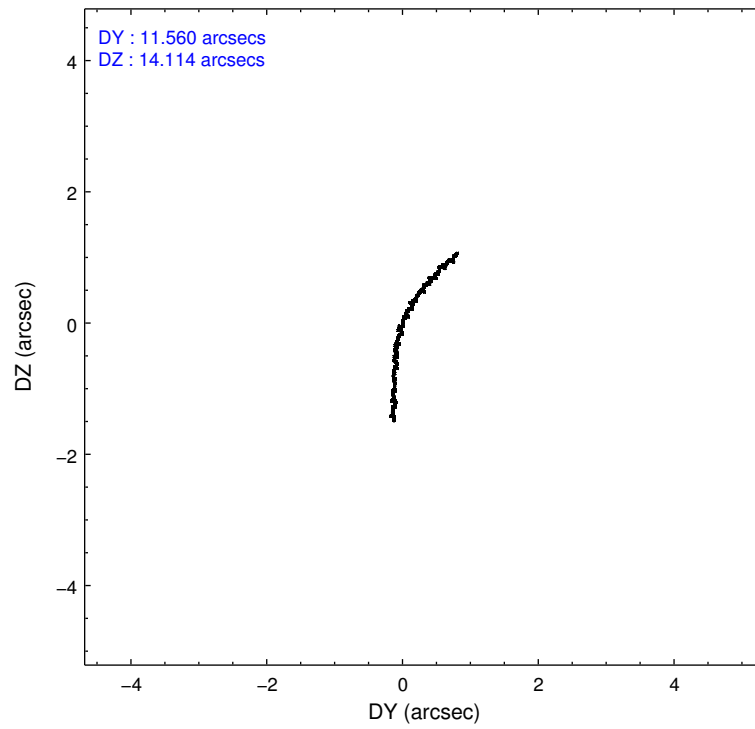
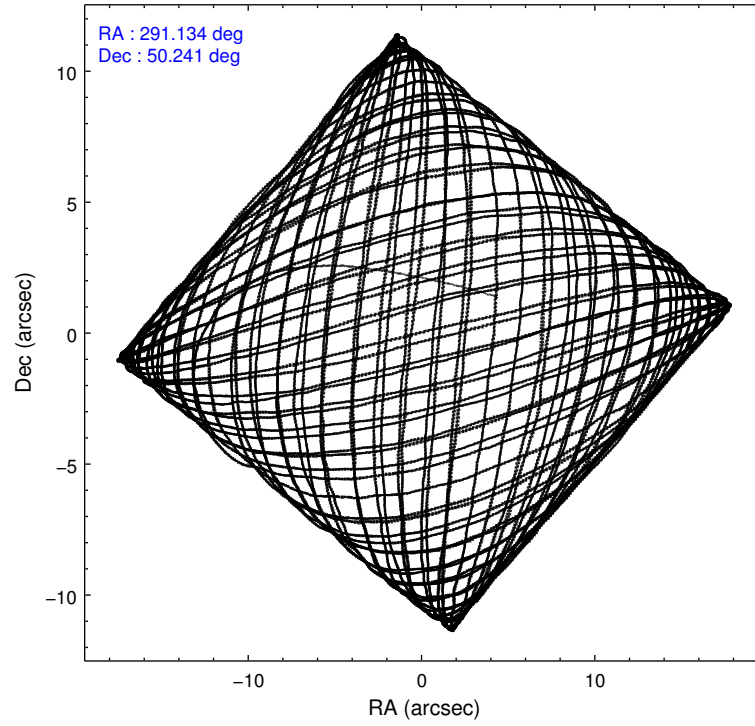
2.1.4 Events

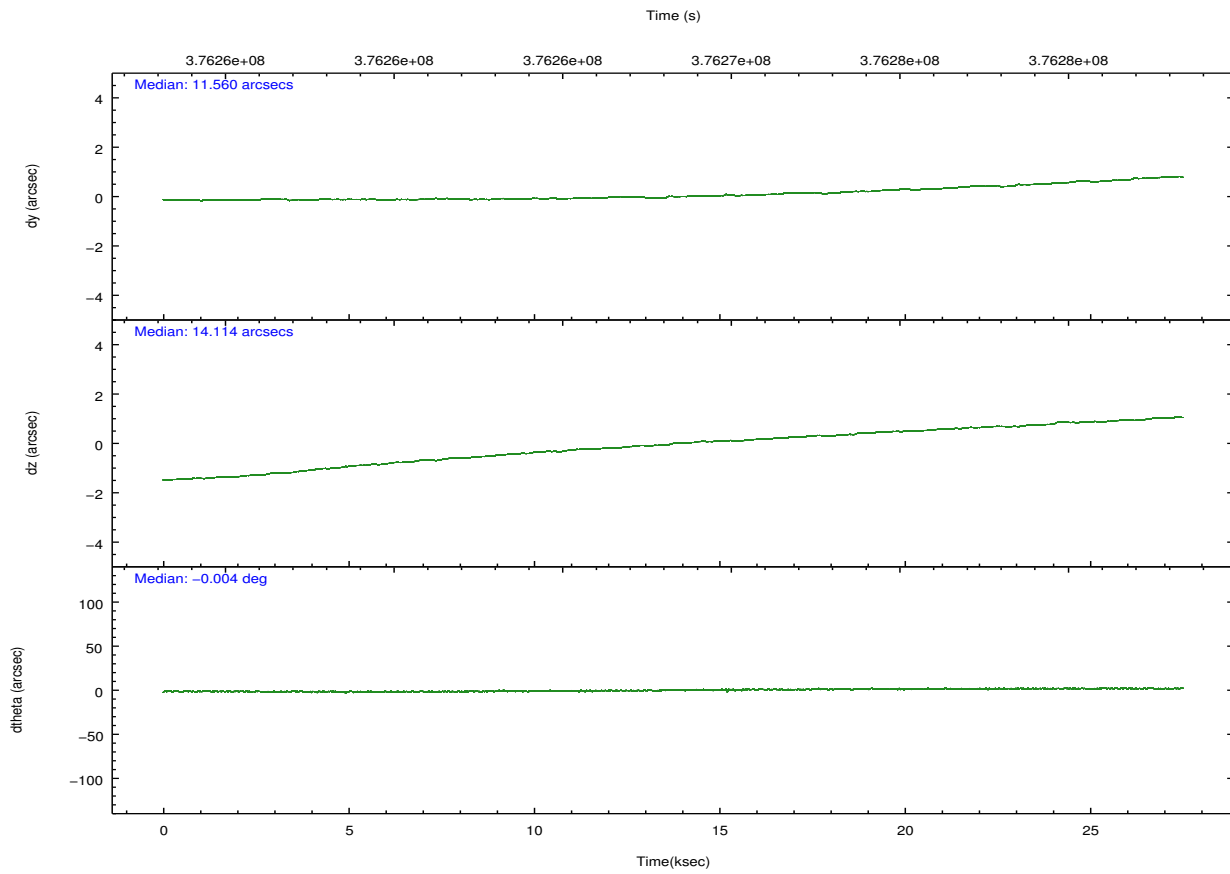
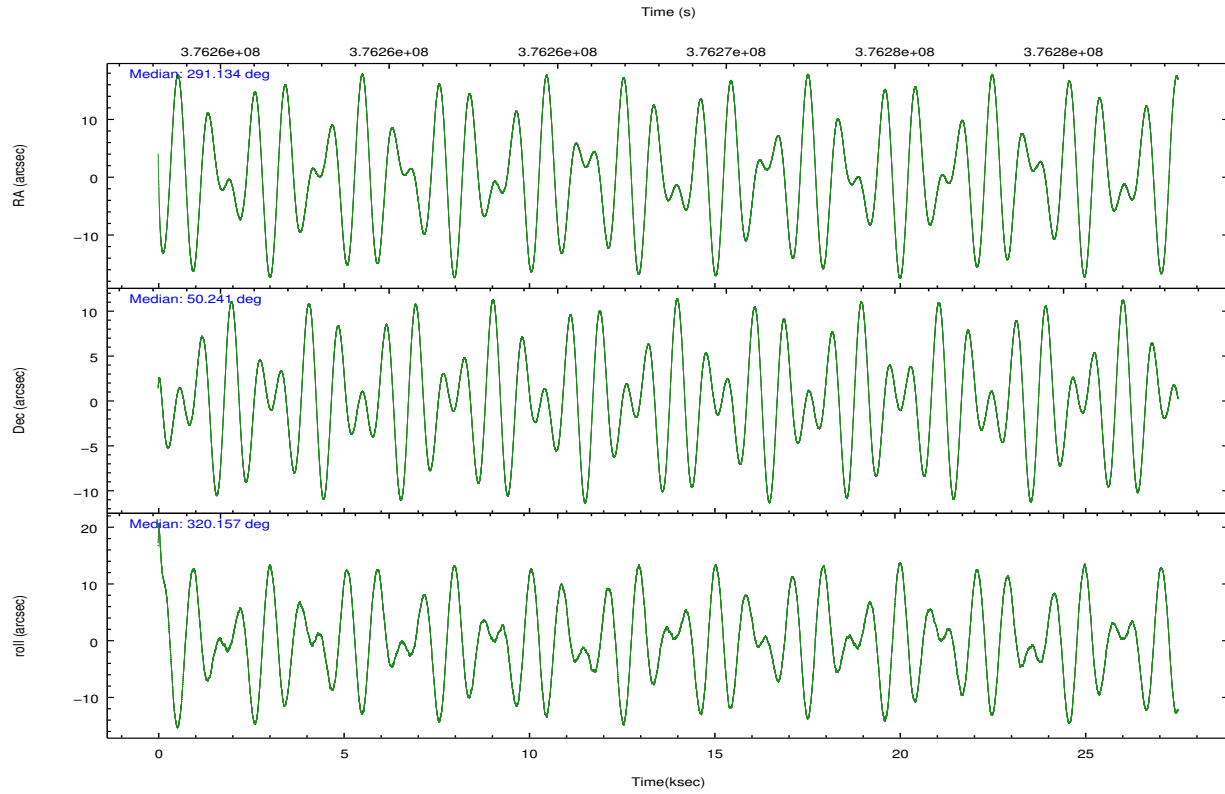
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	249355	348577	228813	324133	286920	217537	grade 0 events	15131	13122	13147	13105	21838	11832
rejected events	217160	187508	197419	181192	218011	188389		6%	3%	5%	4%	7%	5%
rejected %	87%	53%	86%	55%	75%	86%	grade 1 events	225	790	122	412	220	118
								0%	0%	0%	0%	0%	0%
							grade 2 events	6490	48627	6554	29983	15159	6059
								2%	13%	2%	9%	5%	2%
							grade 3 events	2968	6941	2910	12571	7497	2934
								1%	1%	1%	3%	2%	1%
							grade 4 events	2868	6489	2806	12288	6863	2724
								1%	1%	1%	3%	2%	1%
							grade 5 events	10251	25087	10688	29653	14361	11455
								4%	7%	4%	9%	5%	5%
							grade 6 events	4742	85902	5980	75000	17555	5608
								1%	24%	2%	23%	6%	2%
							grade 7 events	206680	161619	186606	151121	203427	176807
								82%	46%	81%	46%	70%	81%

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	291.092417	291.1346410142912	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	50.245364	50.24106647514385	Subarray start row	1	1
[deg] Pointing Roll	320.034981	320.1591514804449	Subarray row count	774	774
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	2.5
[mm] SIM translation stage pos	-187.132523	-187.1254020033014			
[mm] SIM translation stage offset	-3	-3.007120579706367			
[s] Observation start time (MET)	376254657.184000	376253574.31358			
Observation start date	2009-12-03T19:09:51	2009-12-03T18:52:54			
[s] Observation end time (MET)	376282016.184000	376282239.97752			
Observation end date	2009-12-04T02:45:50	2009-12-04T02:50:39			
Read mode	TIMED	TIMED			

2.3 Aspect



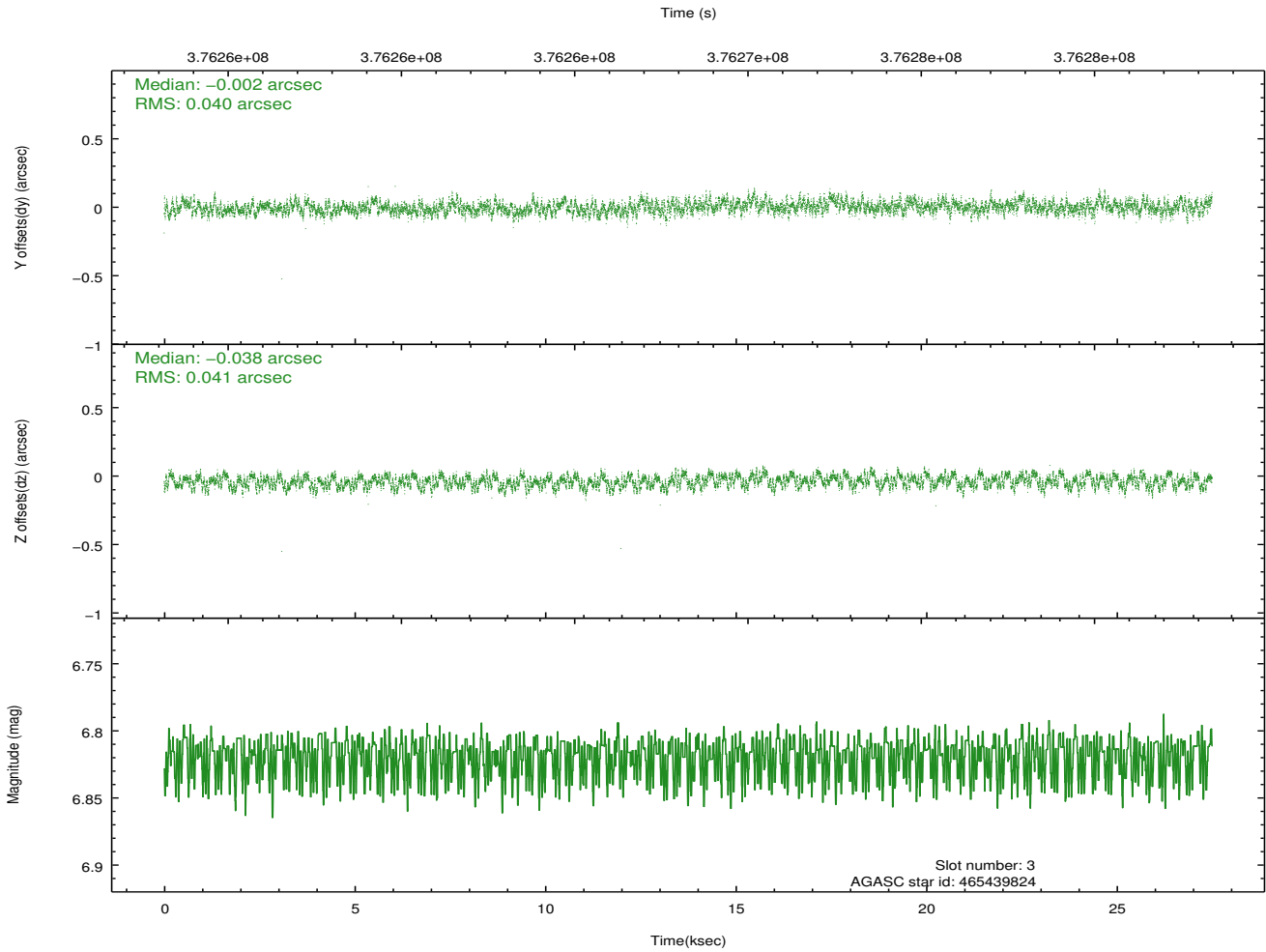
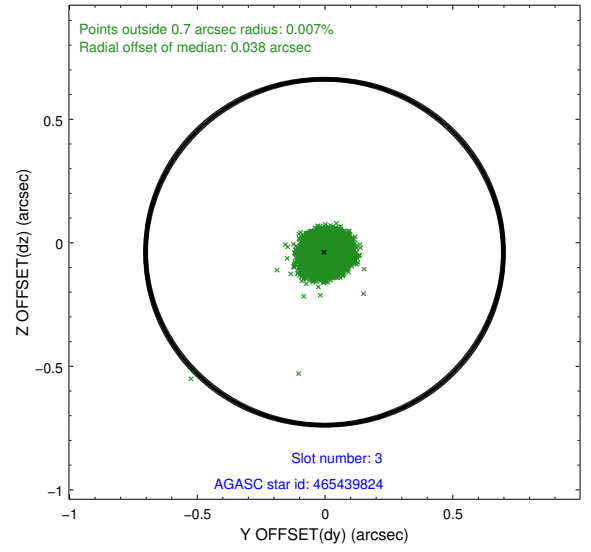
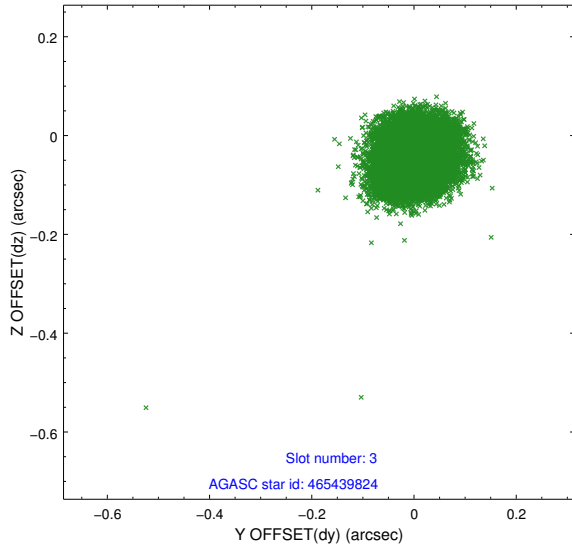


Slot Statistics

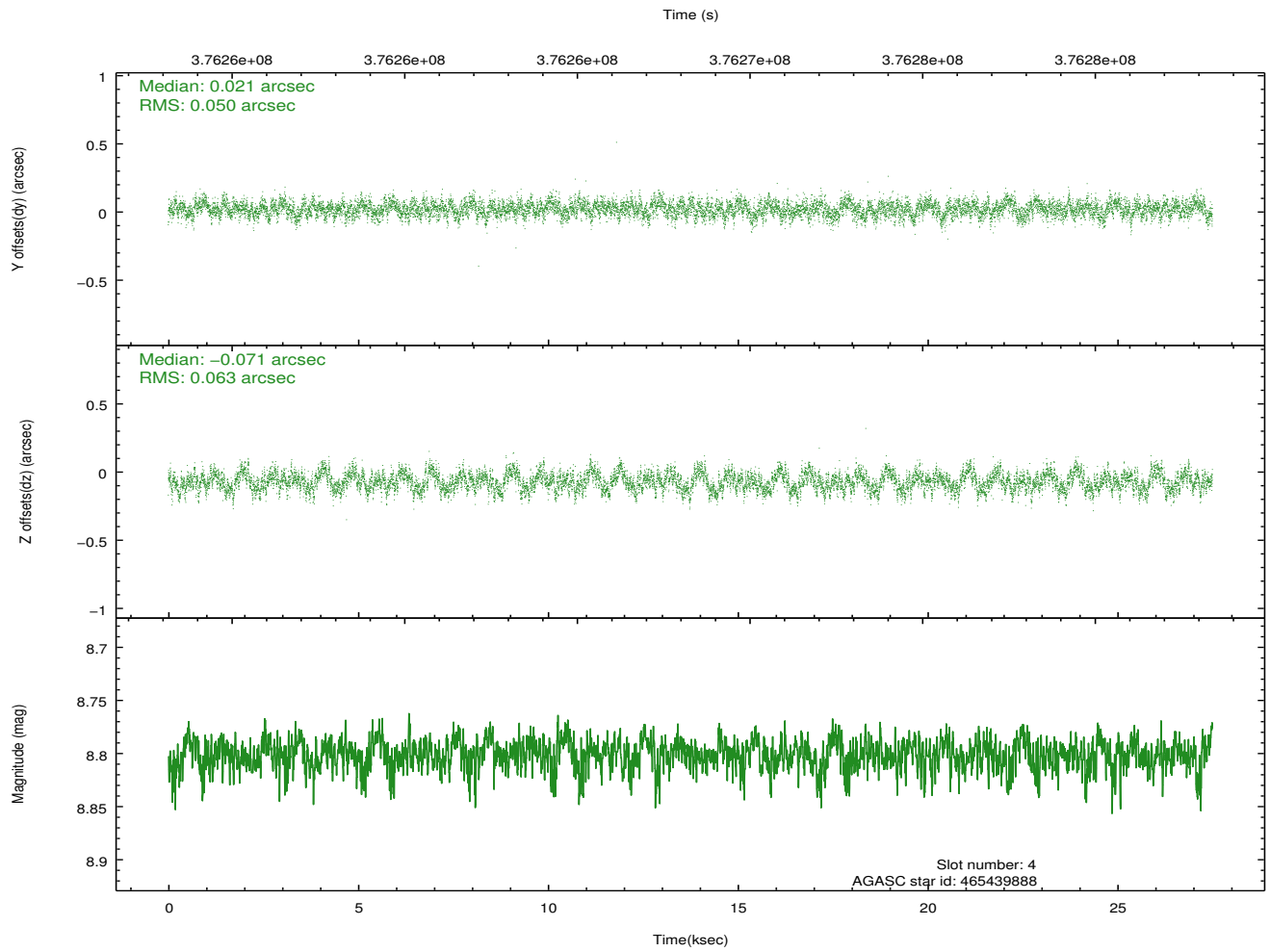
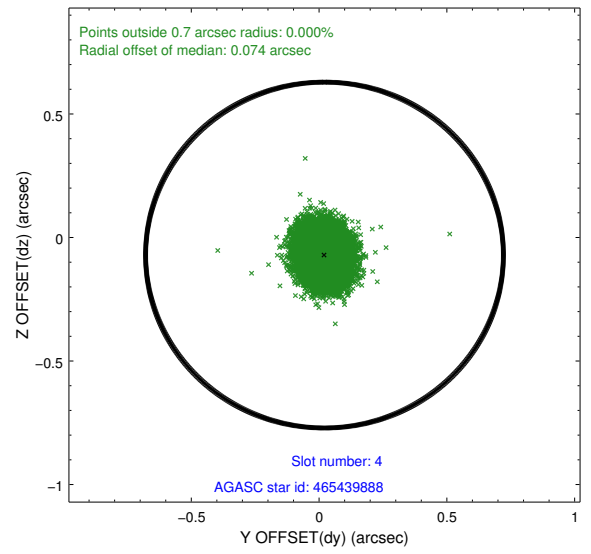
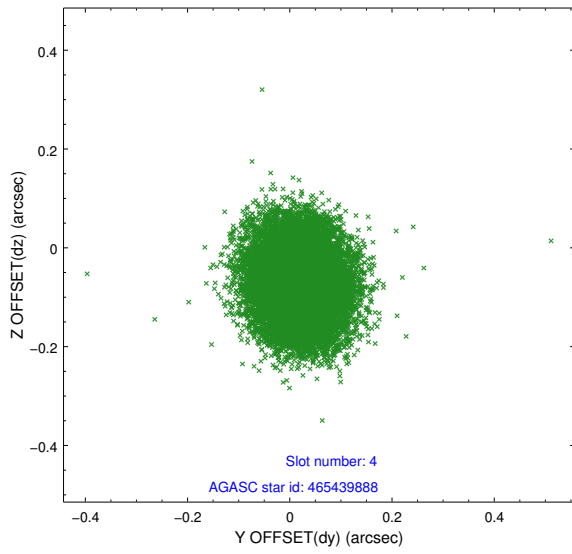
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.93	6708	-0.106	-0.056	0.019	0.038	0.000000	0.000000	-764.46	-1797.50
1	FID	ACIS-S-4	7.01	6708	0.165	0.066	0.018	0.028	0.000000	0.000000	2149.05	110.99
2	FID	ACIS-S-5	7.06	6708	-0.098	-0.002	0.017	0.035	0.000000	0.000000	-1817.17	104.71
3	GUIDE	465439824	6.82	13416	-0.002	-0.038	0.061	0.094	290.131117	50.340225	-1921.06	-1145.60
4	GUIDE	465439888	8.80	13402	0.021	-0.071	0.086	0.137	291.753626	50.234695	1187.34	953.49
5	GUIDE	465447224	8.27	13408	-0.102	-0.019	0.075	0.116	291.830226	50.402668	928.65	1527.92
6	GUIDE	465456704	7.03	13416	0.003	0.130	0.077	0.137	290.849115	50.271291	-489.26	-286.98
7	GUIDE	465447232	8.94	13398	0.075	-0.005	0.088	0.142	291.671863	50.155078	1230.08	613.50

2.4 Star Slots

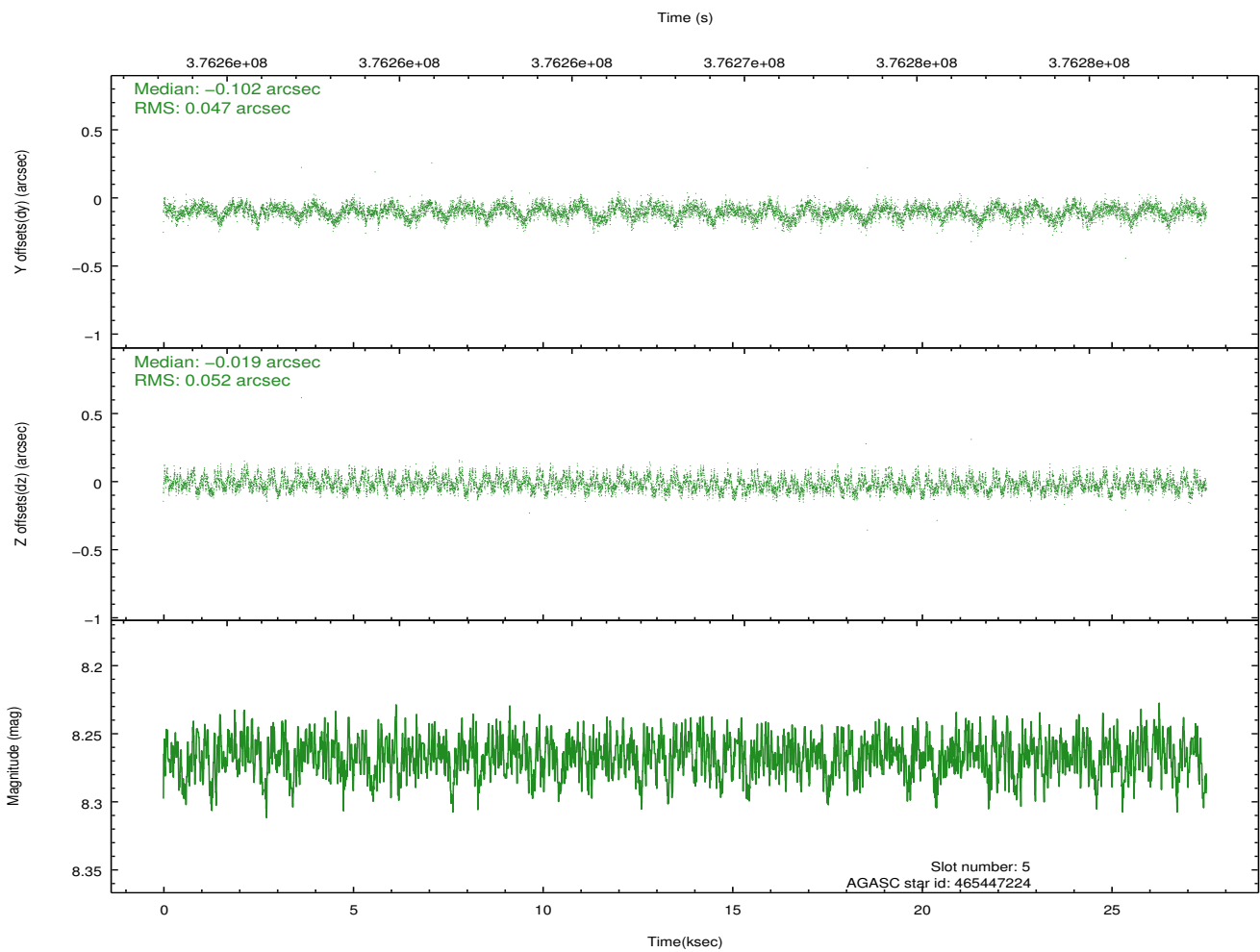
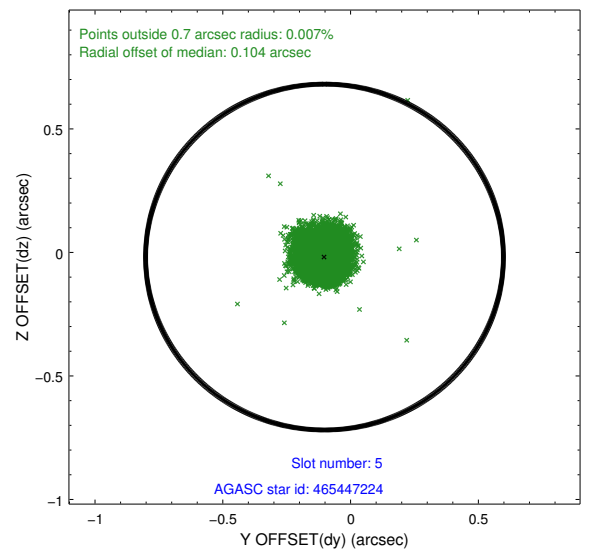
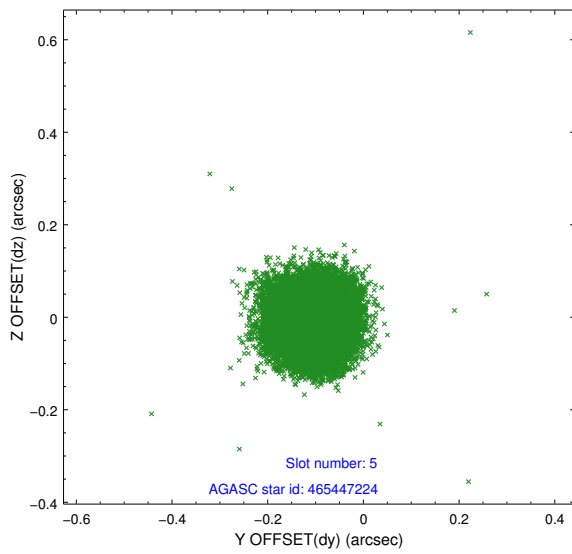
2.4.1 Slot 3



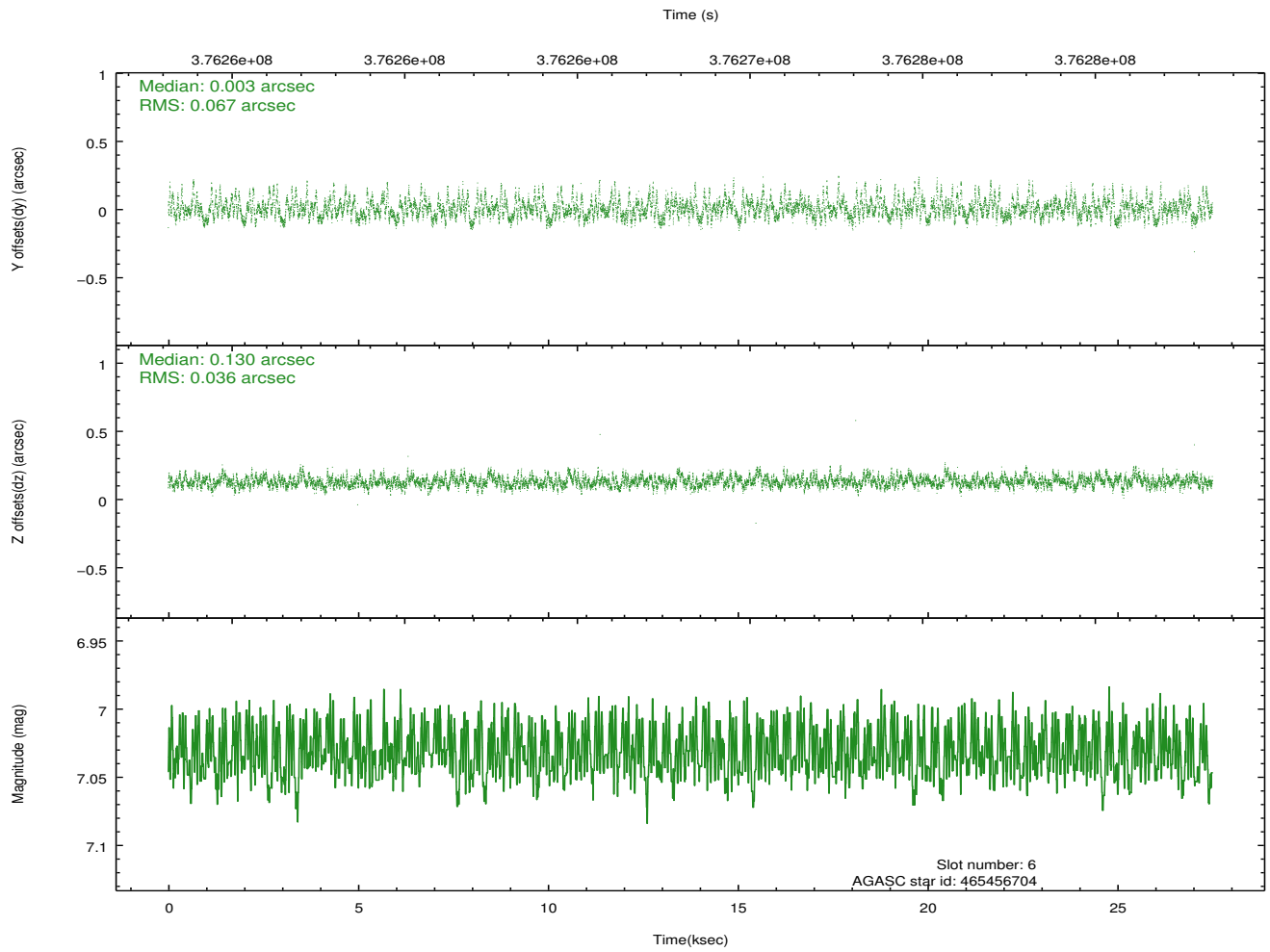
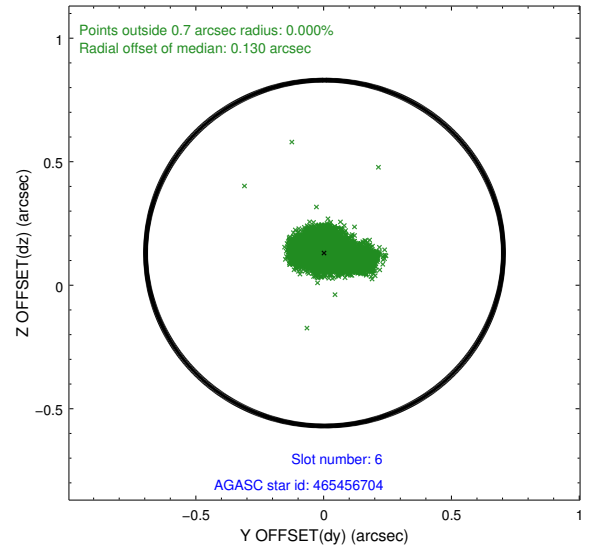
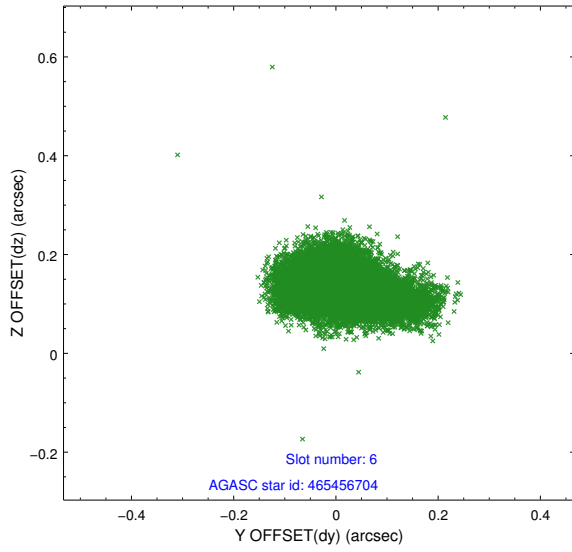
2.4.2 Slot 4



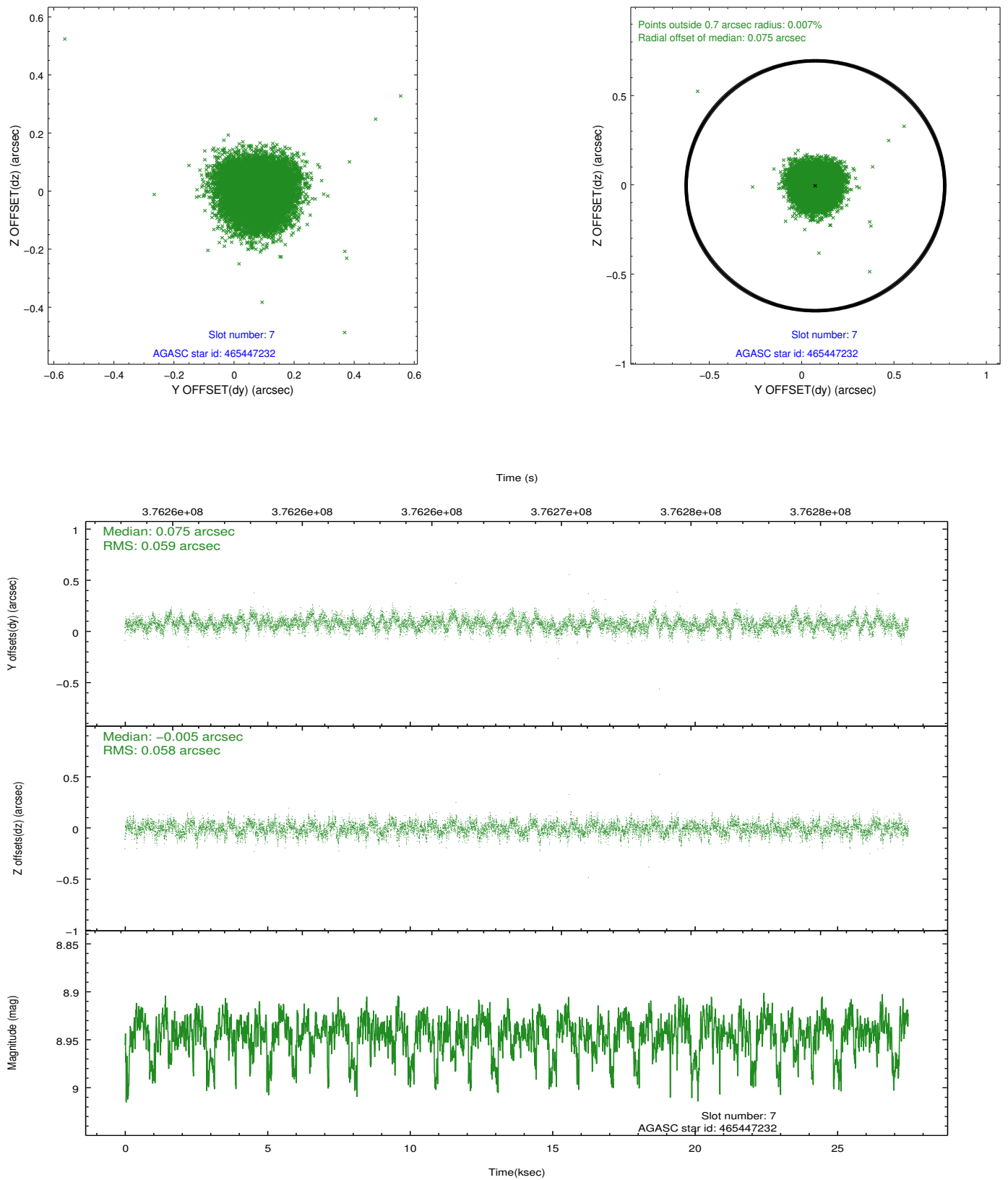
2.4.3 Slot 5



2.4.4 Slot 6

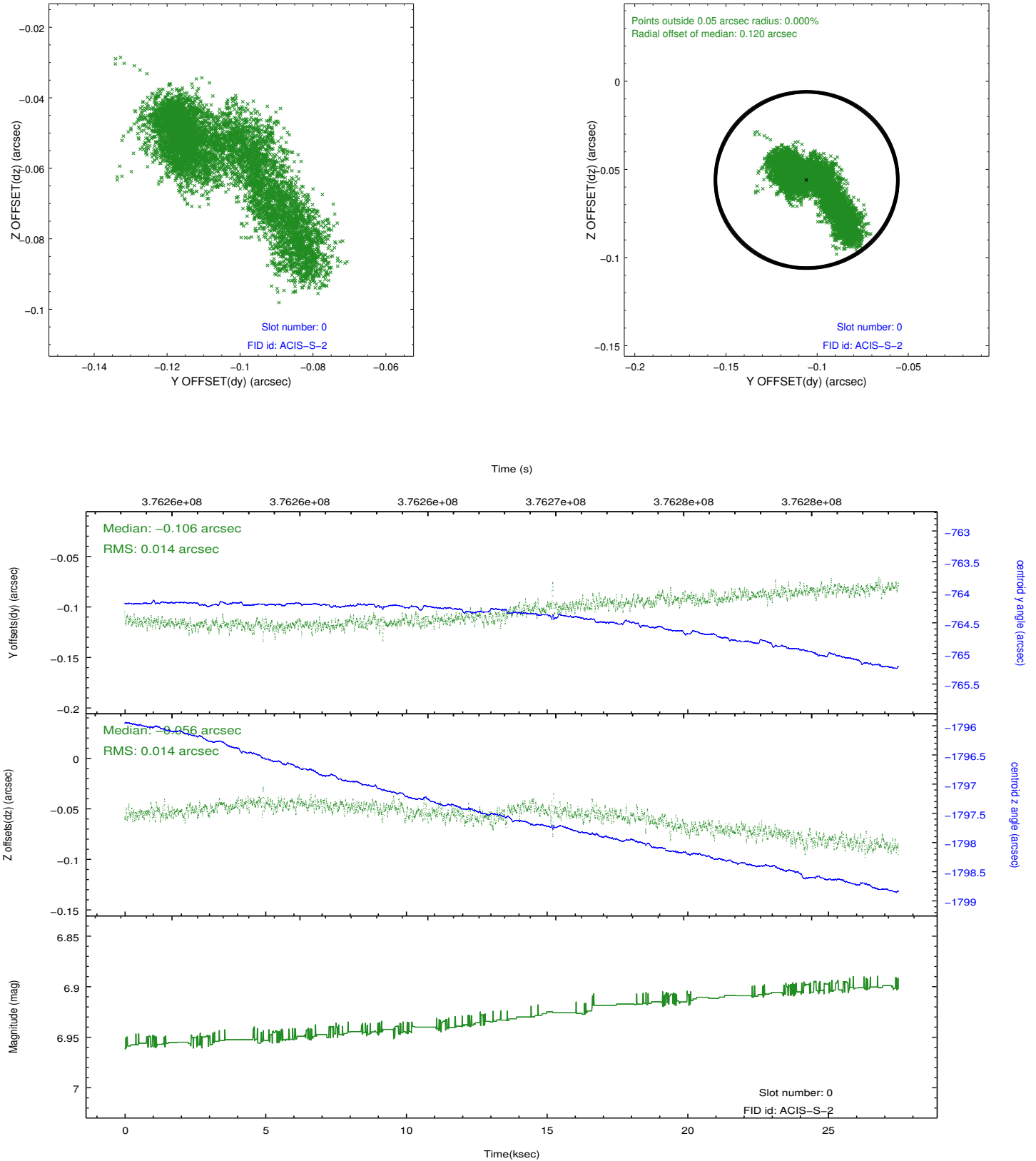


2.4.5 Slot 7

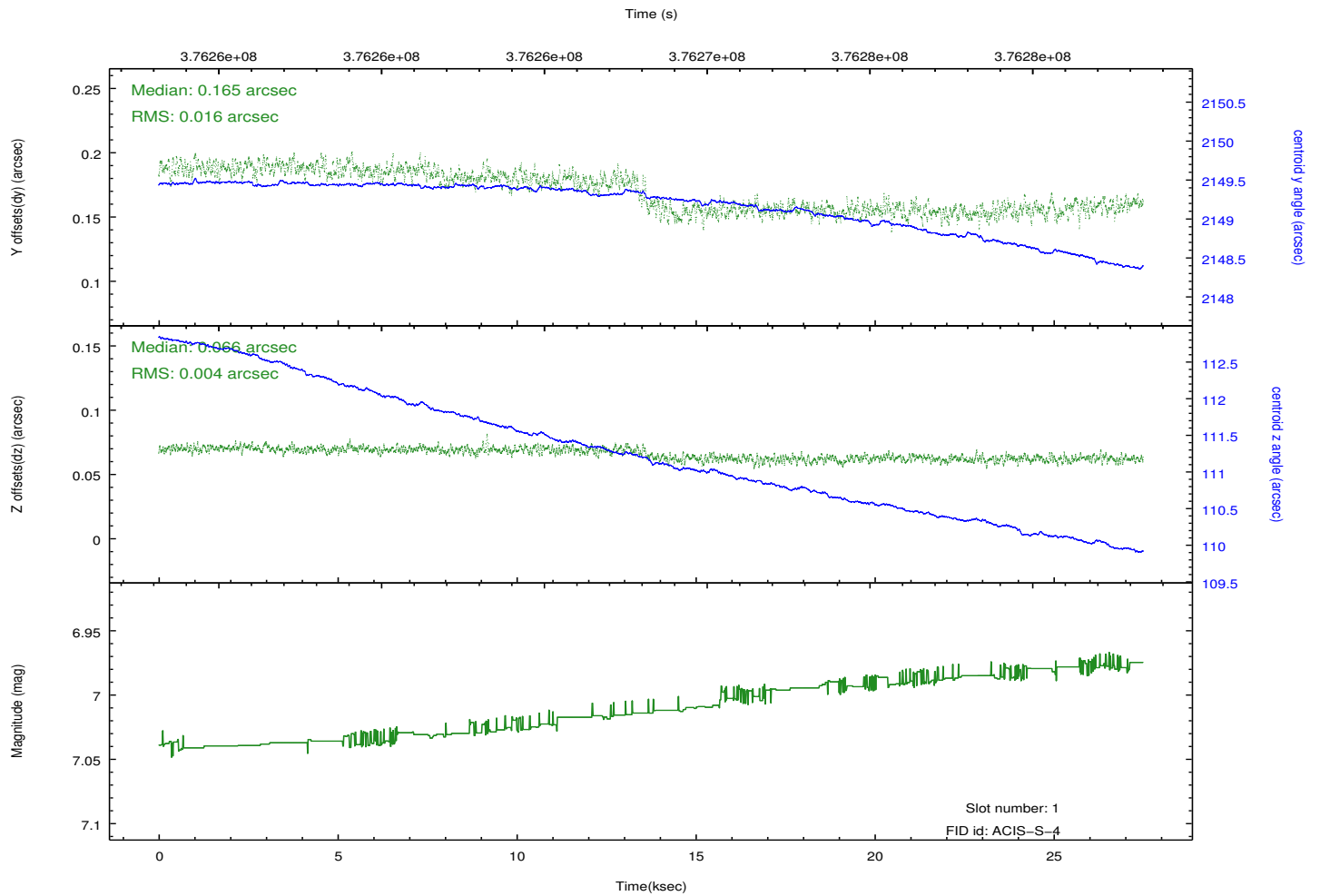
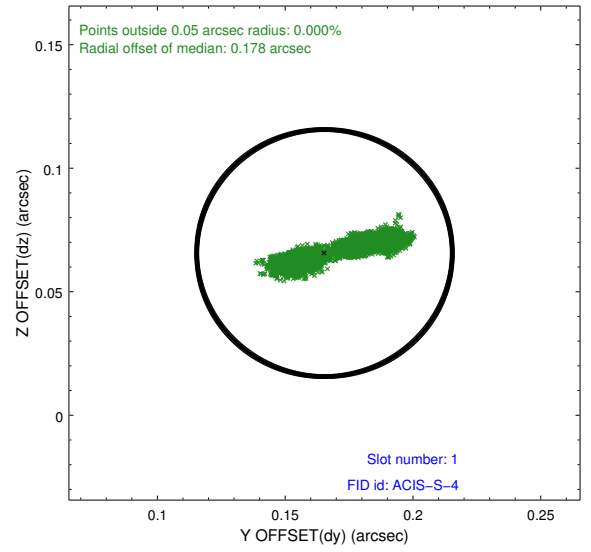
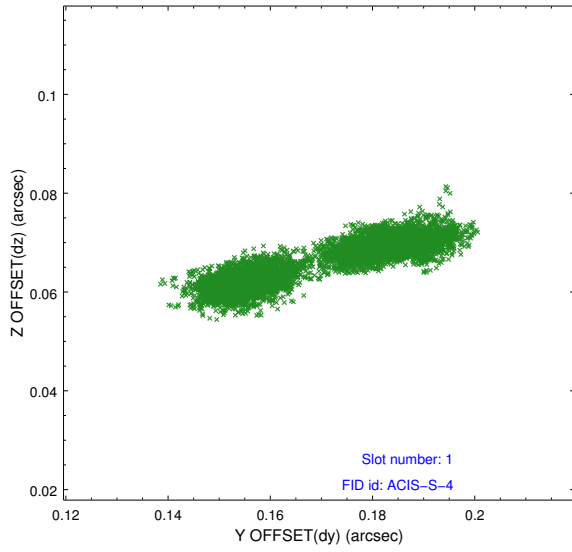


2.5 FID Slots

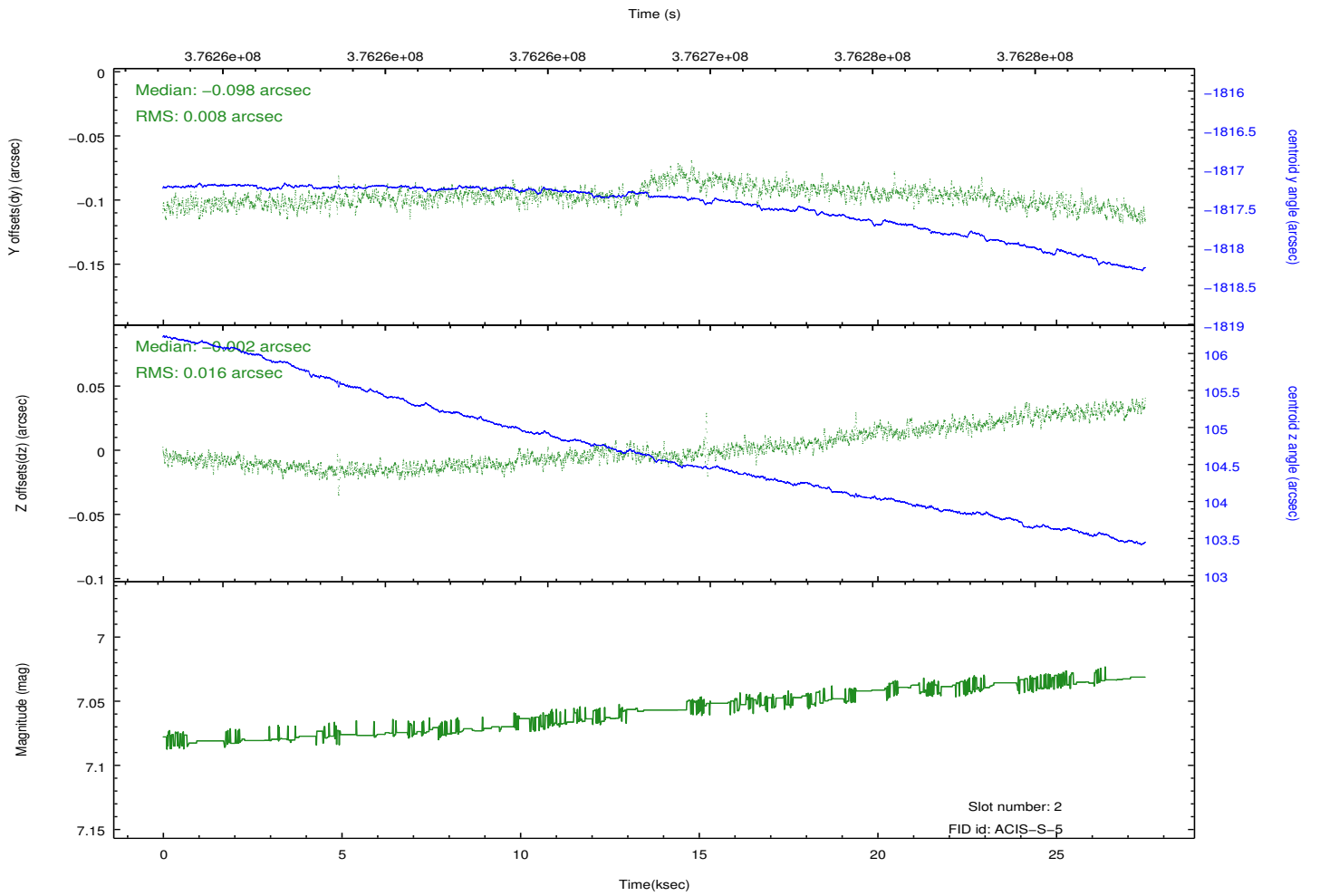
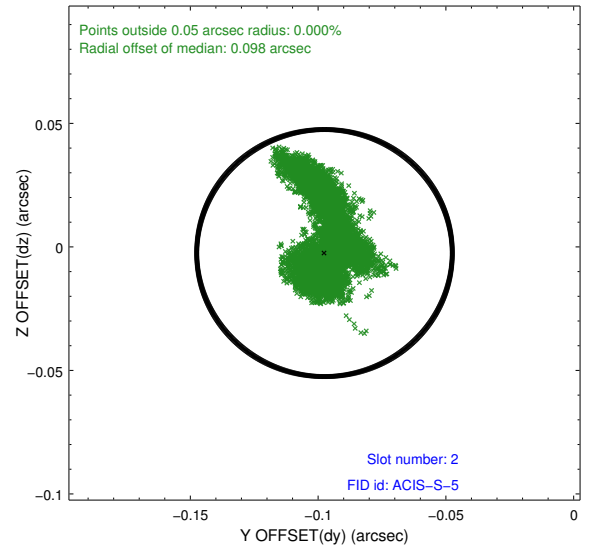
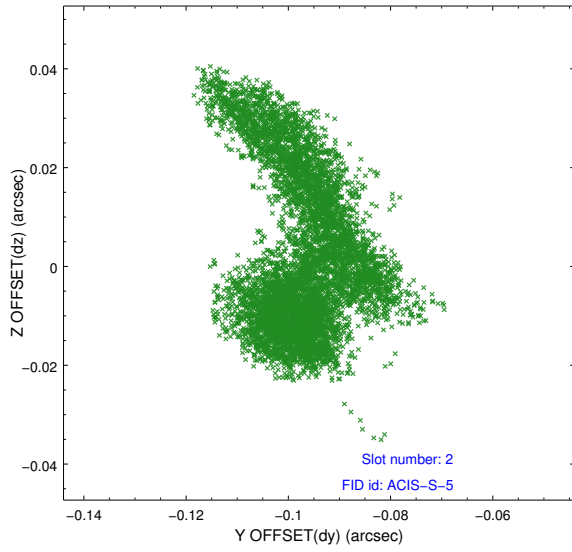
2.5.1 Slot 0



2.5.2 Slot 1

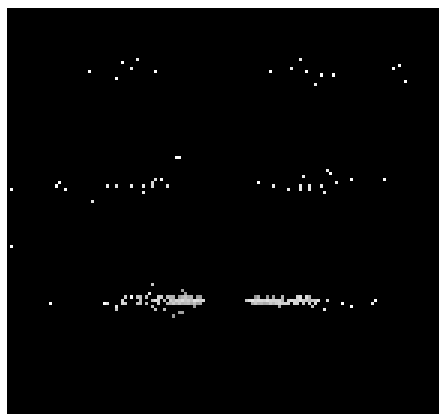


2.5.3 Slot 2

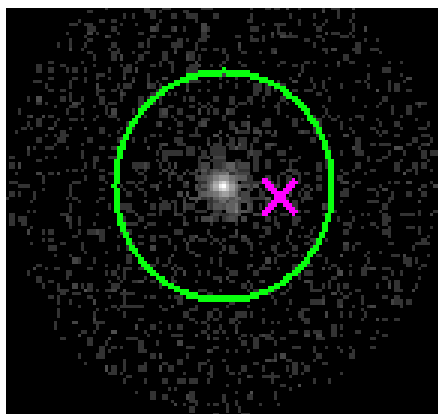


3 Gratings

3.1 HEG Arm



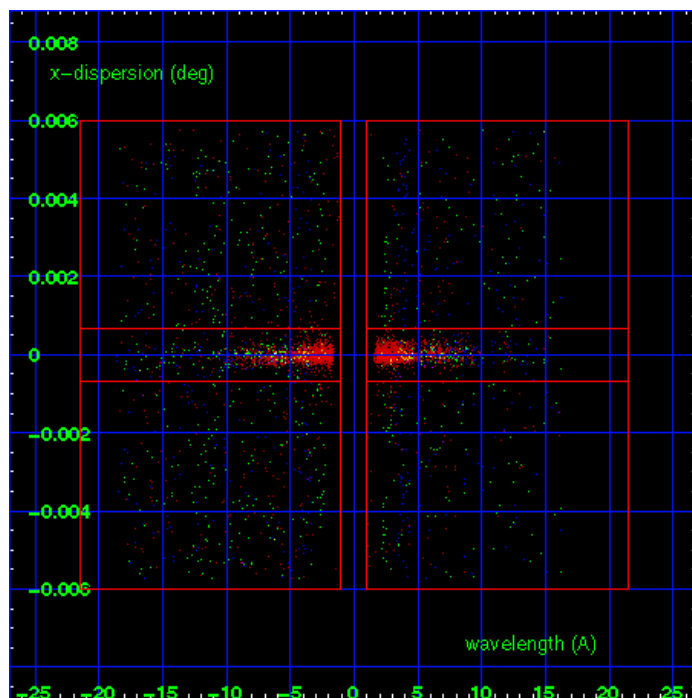
HEG Order Sort 123



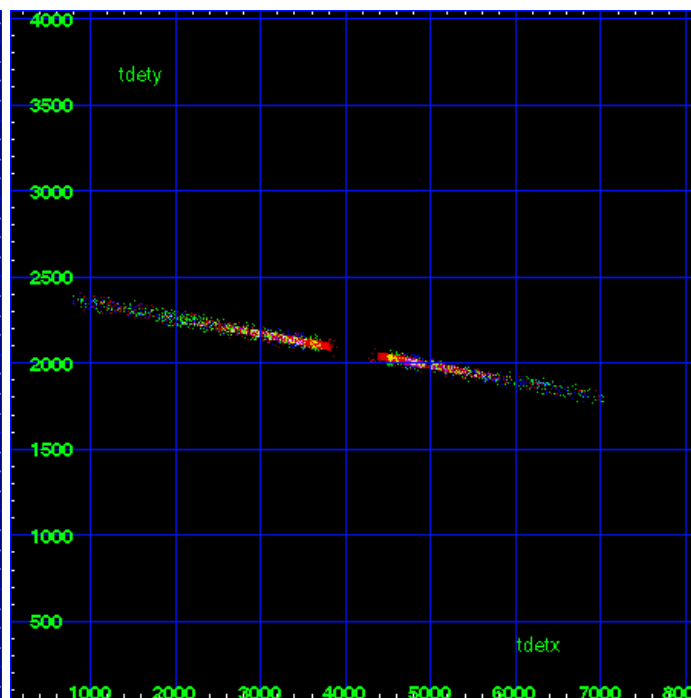
HEG Zero Order



HEG Order Sort ALL

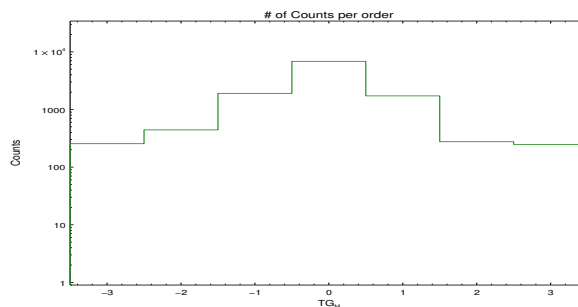


Spot Image HEG

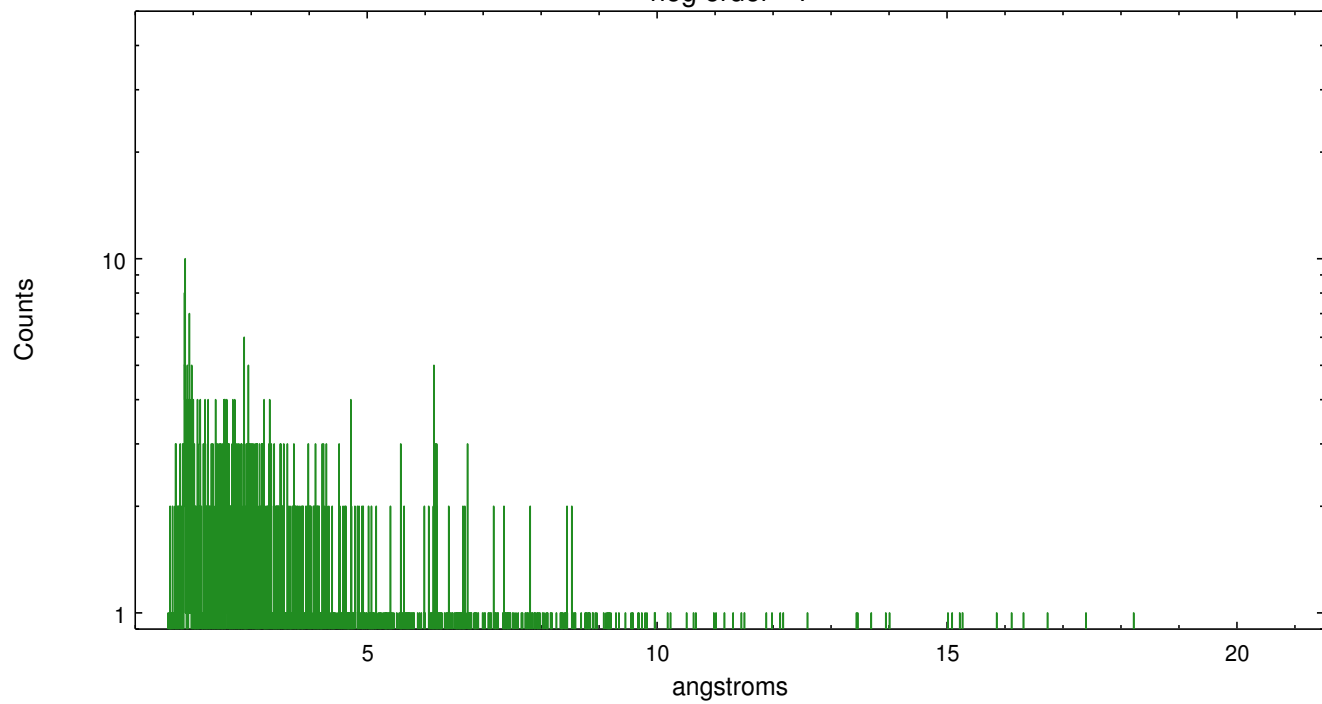


Full Detector HEG

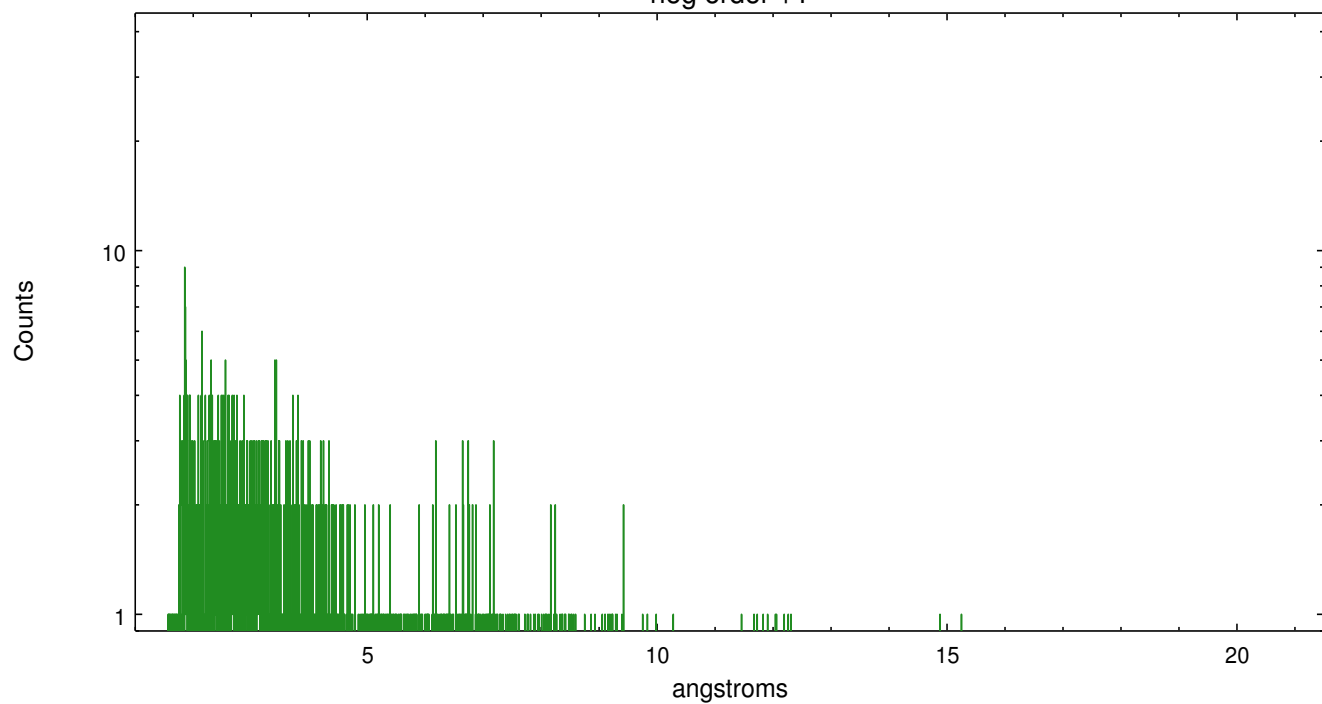
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	255	443	1904	6842	1722	276	248



heg order -1



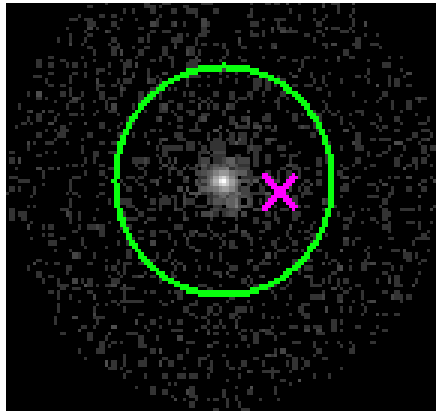
heg order +1



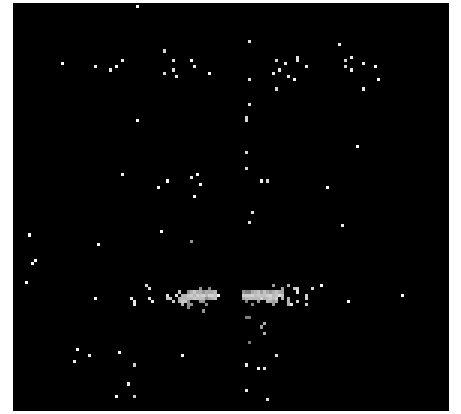
3.2 MEG Arm



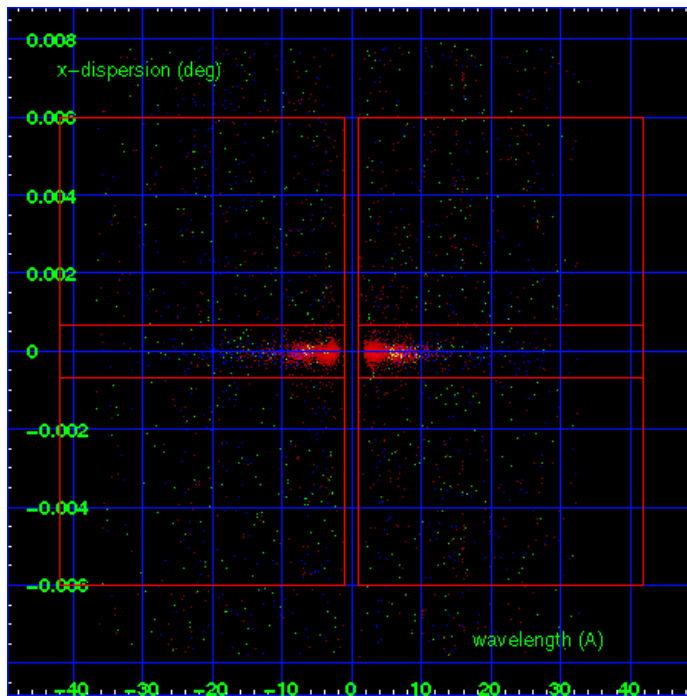
MEG Order Sort 123



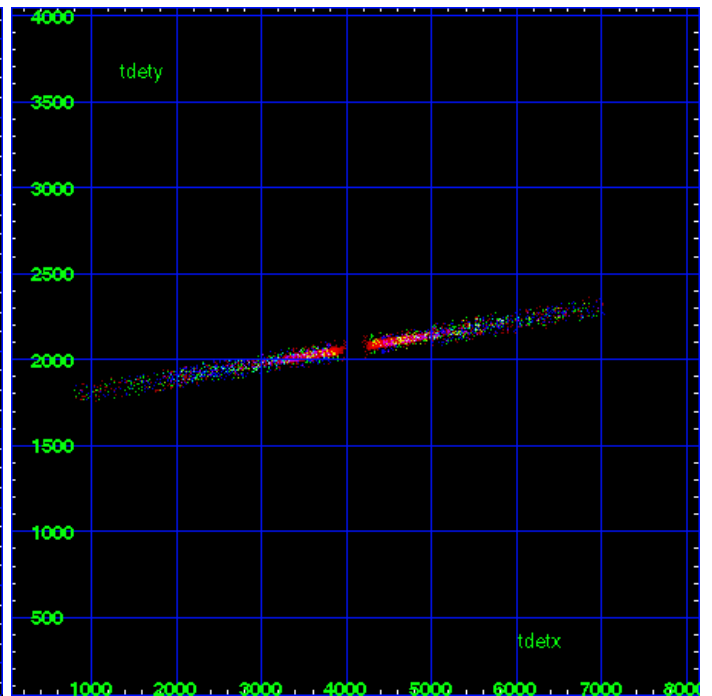
MEG Zero Order



MEG Order Sort ALL

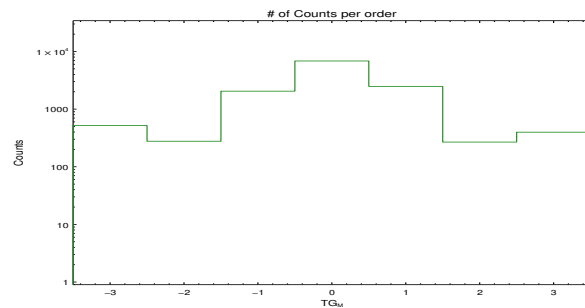


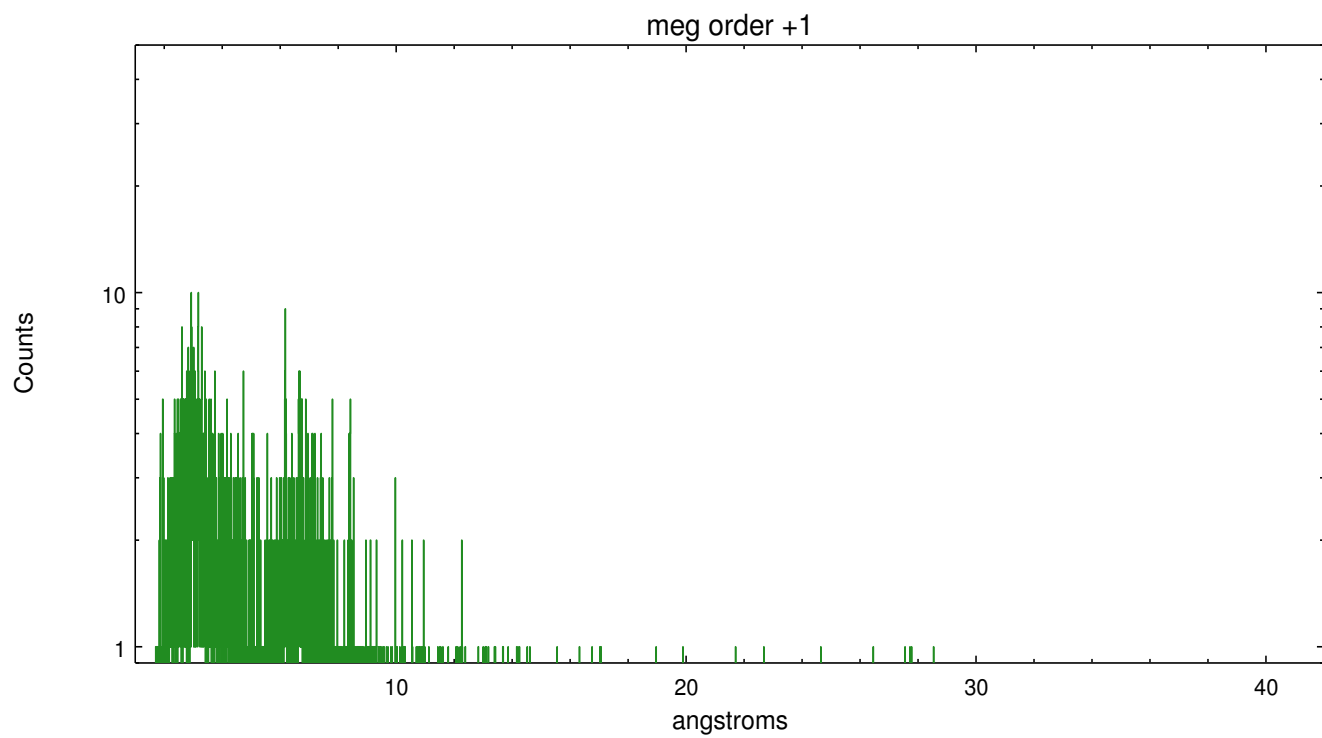
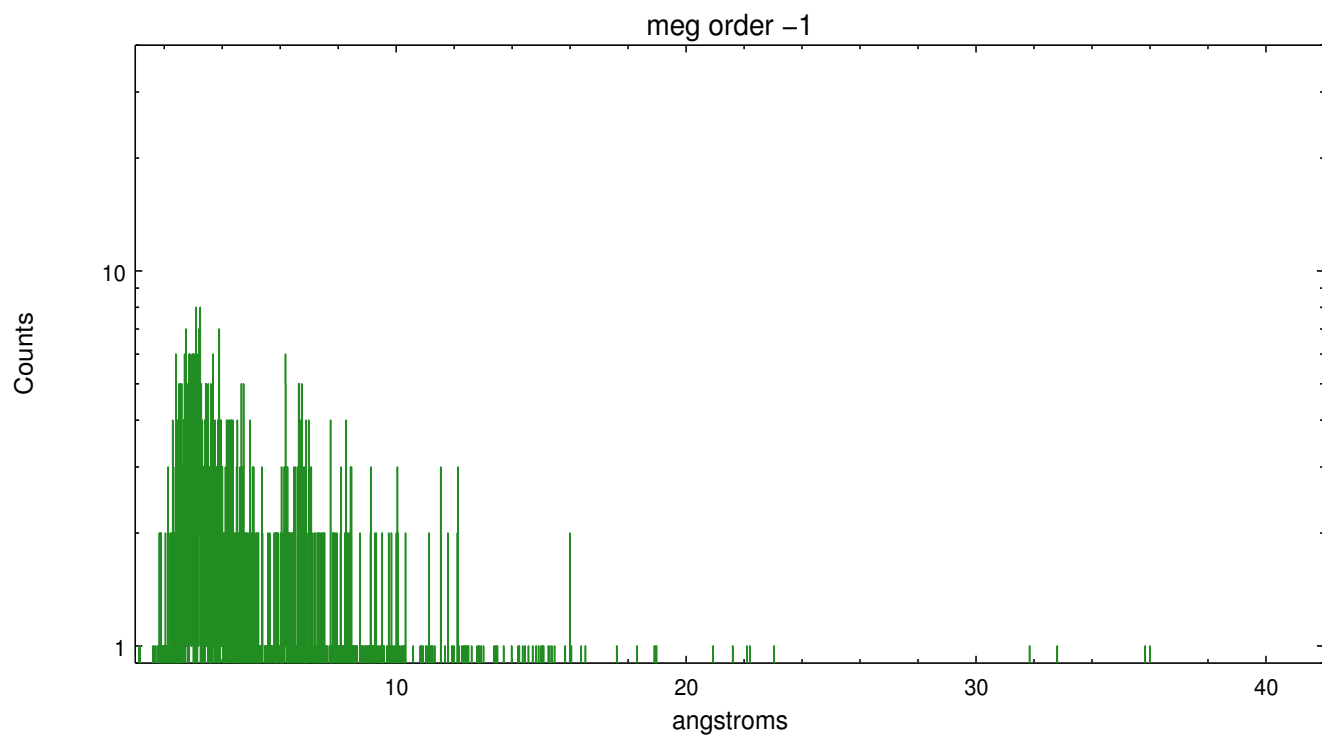
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	519	277	2048	6842	2480	268	398





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.464750384688

A.2 Comments