

V&V Reference Report

L2 ASCDS Version : 10.2.2

Observation 16532 - L2 Version 2
Chandra X-Ray Center

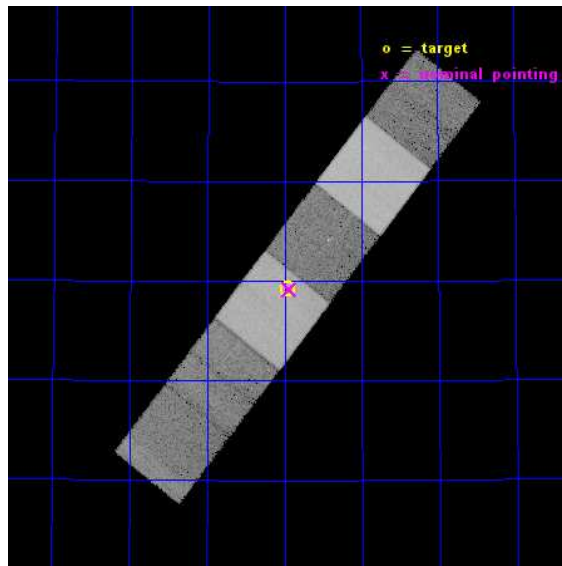
L2 Processing Date : Dec 12 2014

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1 Front

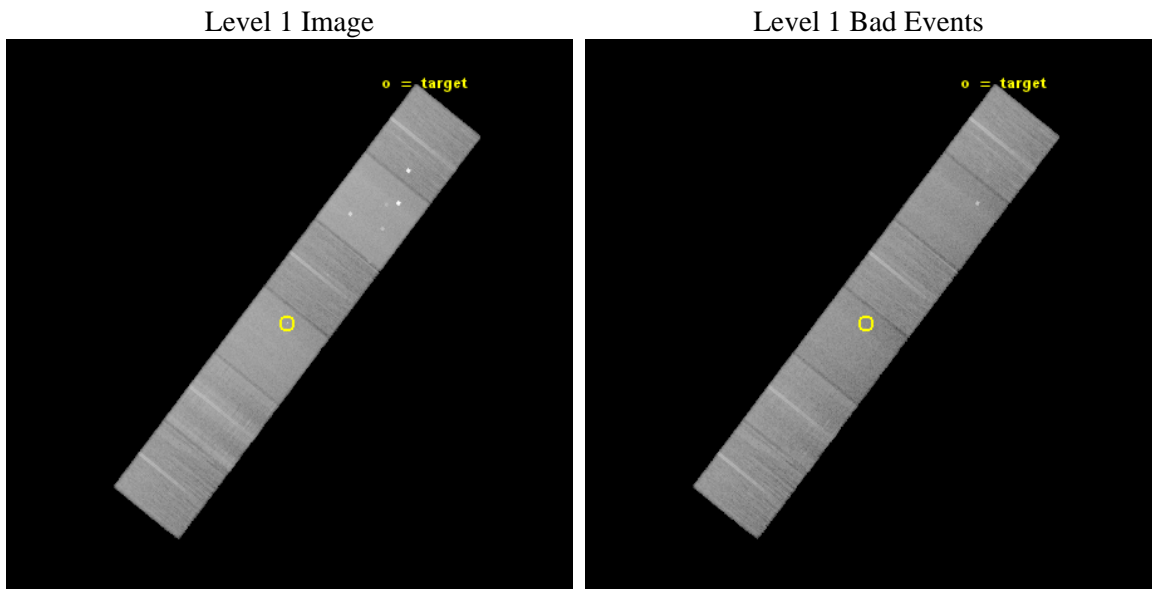
seq_num	200949	Sequence number
obs_id	16532	Observation id
title	Line Profile Diagnostics of the Wind in HD 206267	Proposal title
observer	Prof. Claude Canizares	Principal investigator
object	HD 206267	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	324.739583	Observer's specified target RA [deg]
dec_targ	57.486389	Observer's specified target Dec [deg]
ra_nom	324.73399984557	Nominal RA [deg]
dec_nom	57.48610134492	Nominal Dec [deg]
roll_nom	127.99973209961	Nominal Roll [deg]
revision	2	Processing version of data
ontime	47678.969815969	Sum of GTIs [s]
livetime	47075.229991331	Livetime [s]
ontime4	47679.010855973	Sum of GTIs [s]
ontime5	47678.928775966	Sum of GTIs [s]
ontime6	47675.646735787	Sum of GTIs [s]
ontime7	47678.969815969	Sum of GTIs [s]
ontime8	47678.84669596	Sum of GTIs [s]
ontime9	47675.564675629	Sum of GTIs [s]
l2events	396880	Number of level 2 events



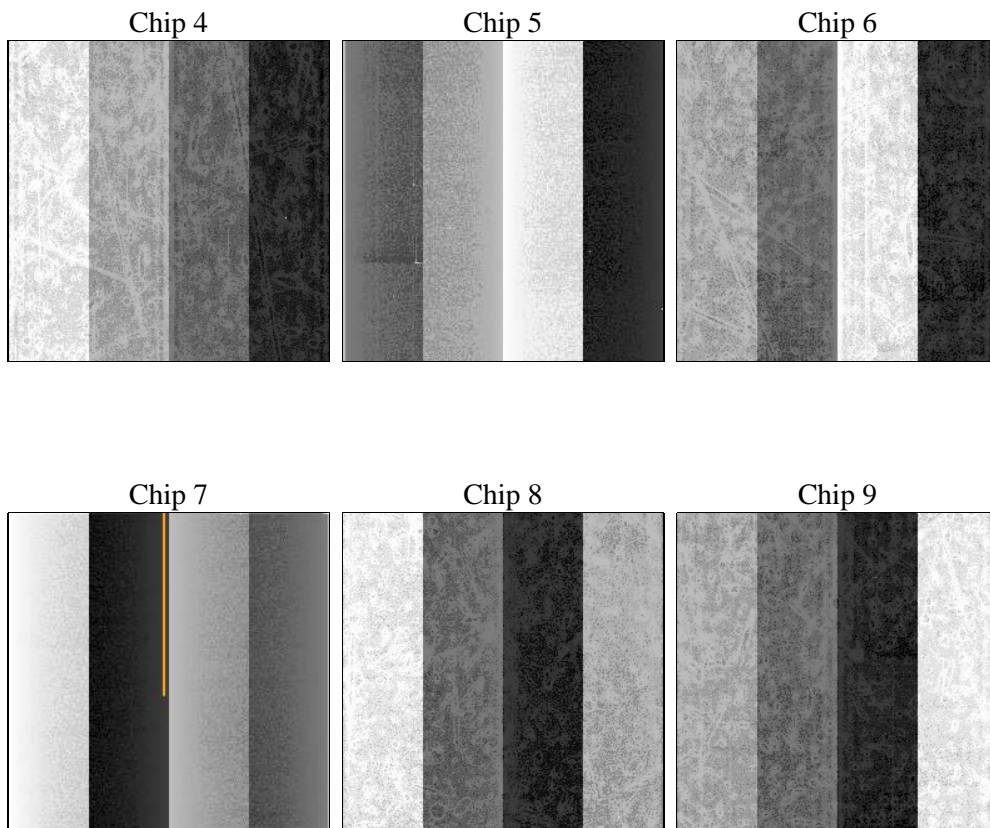
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	47720.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	47678.969815969	Sum of GTIs [s]
caldsver	4.6.4	 	ontime4	47679.010855973	Sum of GTIs [s]
date	2014-12-12T03:30:49	Date and time of file creation	ontime5	47678.928775966	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	47675.646735787	Sum of GTIs [s]
			ontime7	47678.969815969	Sum of GTIs [s]
			ontime8	47678.84669596	Sum of GTIs [s]
			ontime9	47675.564675629	Sum of GTIs [s]
			l1events	1713166	Number of level 1 events
			tgmethod	TGDETECT	Method used to create src1a file
			zpc_pos	(4072.54, 4118.55)	src1a sky pixel position

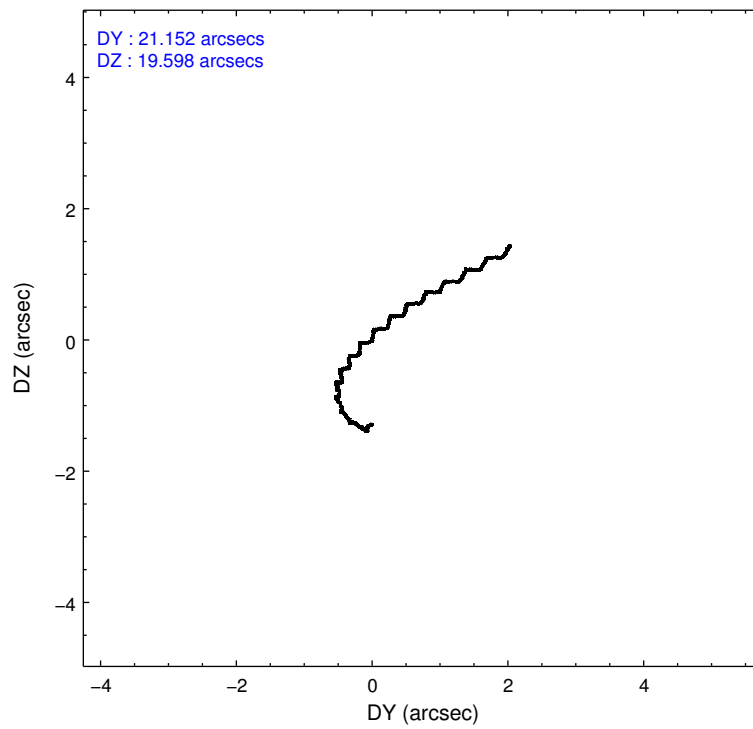
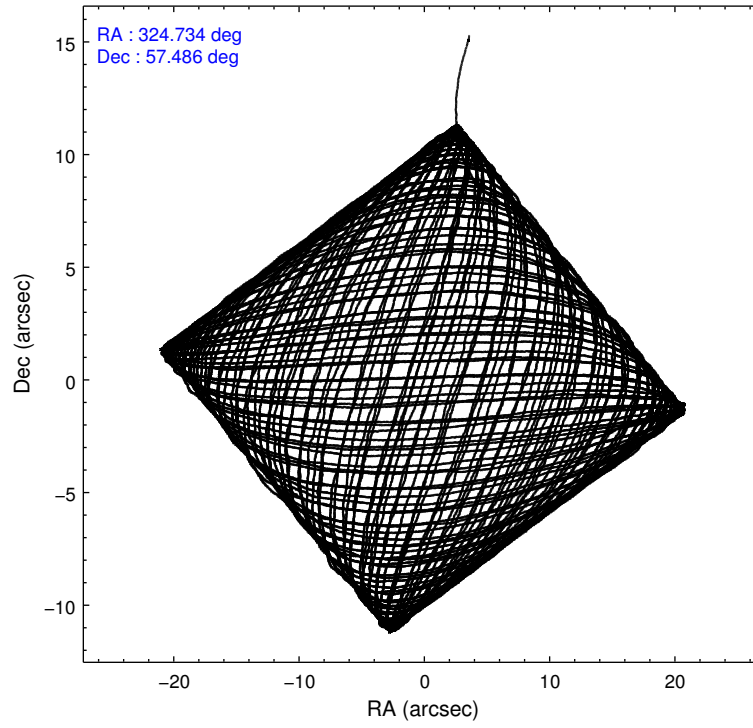
2.1.4 Events

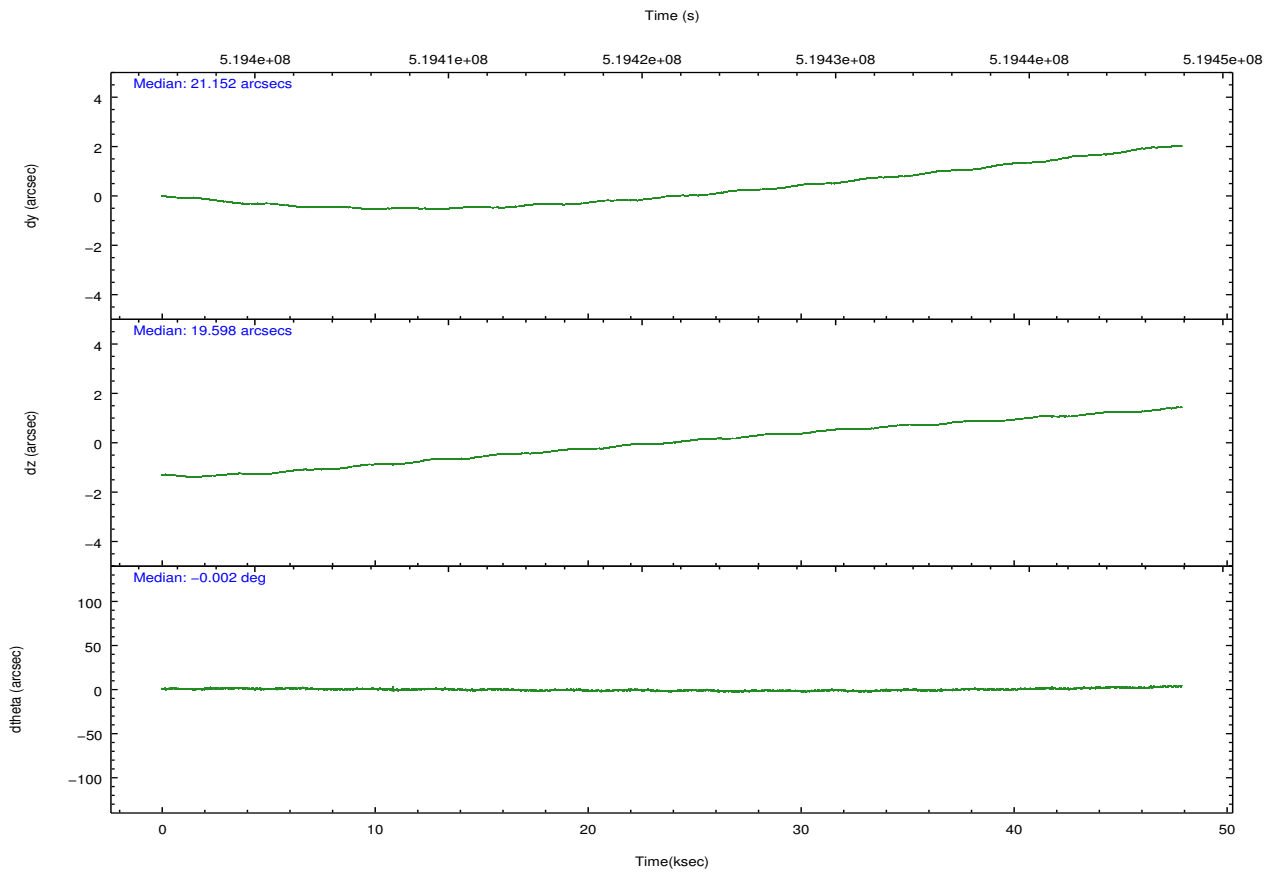
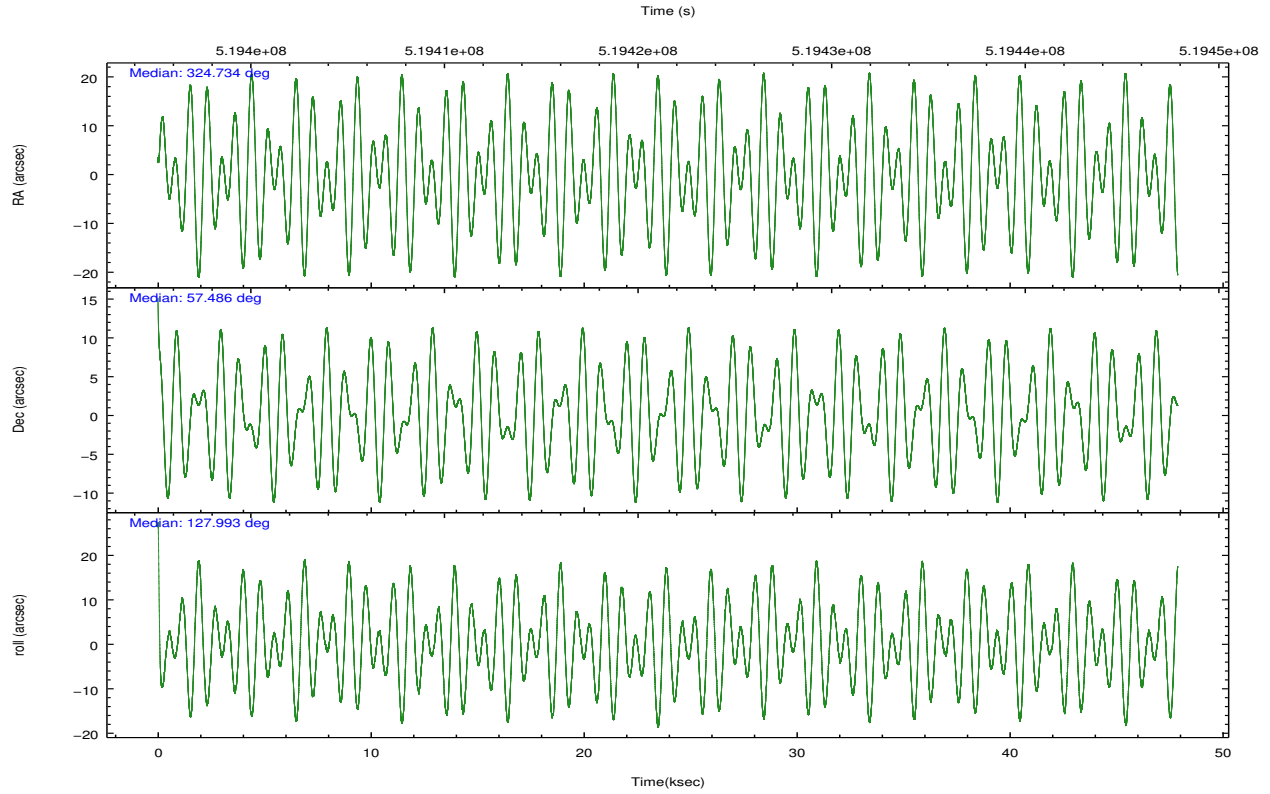
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	264809	381081	227949	305559	304113	229655	grade 0 events	22884	21768	9832	11825	25468	10459
rejected events	223627	192796	200109	172650	219250	200294		8%	5%	4%	3%	8%	4%
rejected %	84%	50%	87%	56%	72%	87%	grade 1 events	242	1765	111	418	241	146
								0%	0%	0%	0%	0%	0%
							grade 2 events	7201	59220	6217	27272	19621	6527
								2%	15%	2%	8%	6%	2%
							grade 3 events	2947	6038	2764	11357	8857	3009
								1%	1%	1%	3%	2%	1%
							grade 4 events	2955	5724	2758	11078	8456	2932
								1%	1%	1%	3%	2%	1%
							grade 5 events	11867	27313	11566	31577	17093	13038
								4%	7%	5%	10%	5%	5%
							grade 6 events	5201	95559	6272	71396	22474	6440
								1%	25%	2%	23%	7%	2%
							grade 7 events	211512	163694	188429	140636	201903	187104
								79%	42%	82%	46%	66%	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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	324.781381	324.7339998455739	CCD I2 on	N	N
[deg] Pointing Dec	57.476197	57.48610134492026	CCD I3 on	N	N
[deg] Pointing Roll	127.803145	127.9997320996077	CCD S0 on	O1	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	519397746.184000	519396627.61688	CCD S5 on	O2	Y
Observation start date	2014-06-17T13:07:59	2014-06-17T12:50:27	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	519445466.184000	519445970.09461	On-chip summing requested	N	N
Observation end date	2014-06-18T02:23:19	2014-06-18T02:32:50	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





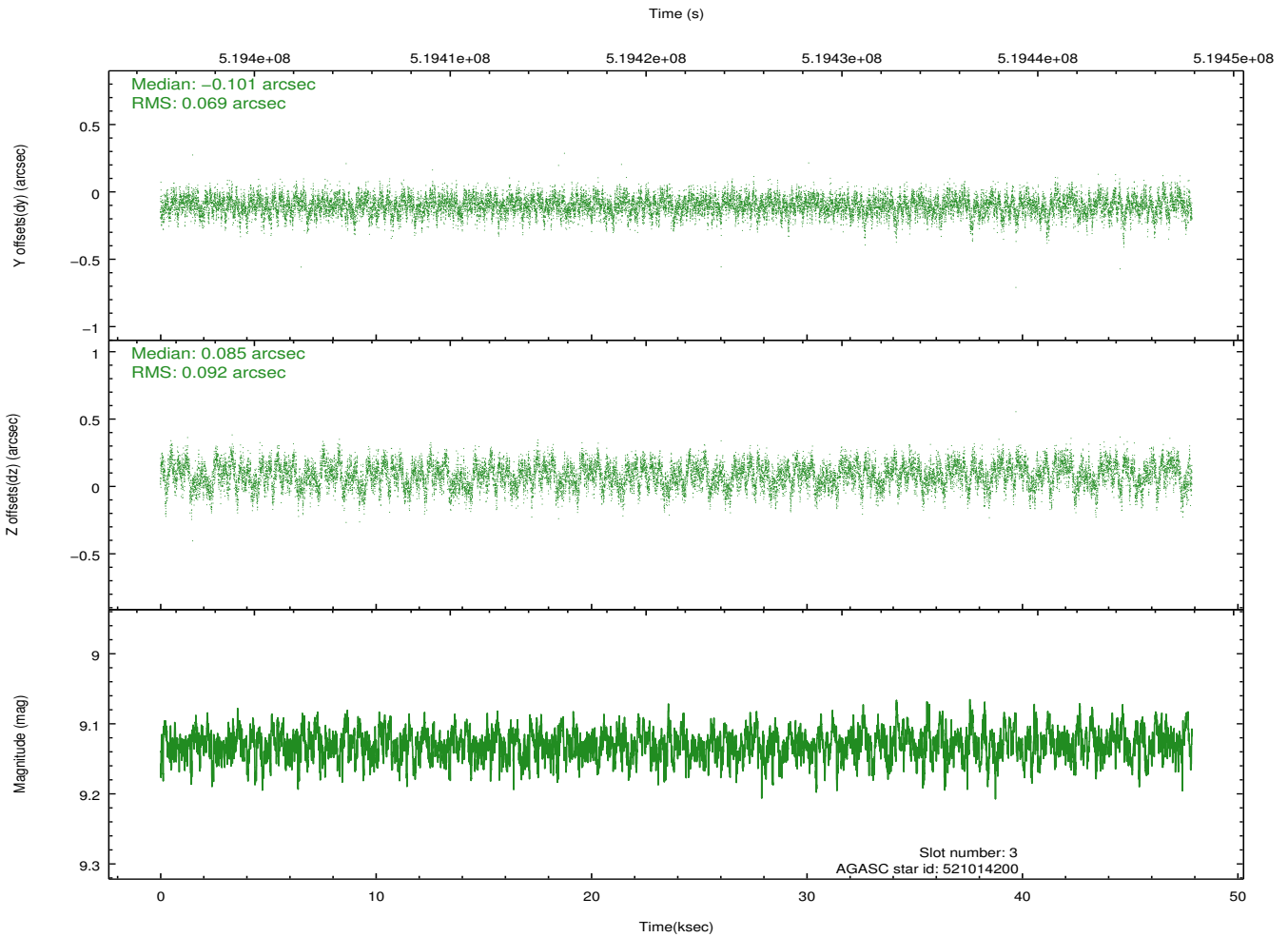
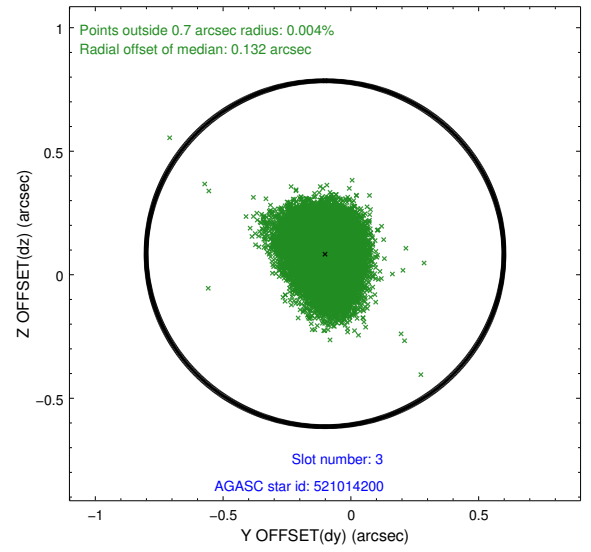
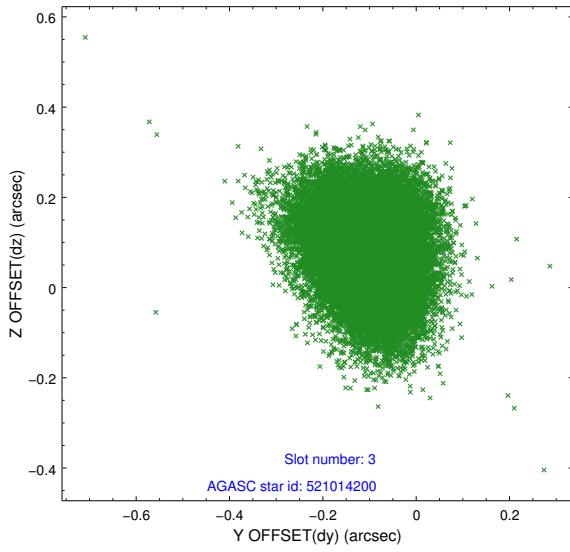
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.02	11679	0.065	0.015	0.044	0.066	0.000000	0.000000	921.40	-1736.77
1	FID		ACIS-S-2	6.95	11679	-0.208	-0.090	0.021	0.028	0.000000	0.000000	-774.79	-1741.30
2	FID		ACIS-S-4	7.03	11679	0.118	0.082	0.025	0.048	0.000000	0.000000	2138.80	167.42
3	GUIDE	used	521014200	9.13	23344	-0.101	0.085	0.122	0.196	325.156422	58.109888	1367.27	-1962.73
4	GUIDE	used	521017056	8.28	23354	0.394	0.393	0.085	0.129	326.148677	57.453442	-1665.91	-2058.42
5	GUIDE	used	521018032	8.29	23352	0.000	0.019	0.083	0.128	324.637664	57.165729	-710.85	906.57
6	GUIDE	used	521020112	7.79	23353	0.023	-0.095	0.080	0.130	324.609515	56.973735	-1222.12	1374.91
7	GUIDE	used	520882280	7.90	23347	-0.319	-0.402	0.094	0.140	323.124310	57.538342	2169.82	2369.19

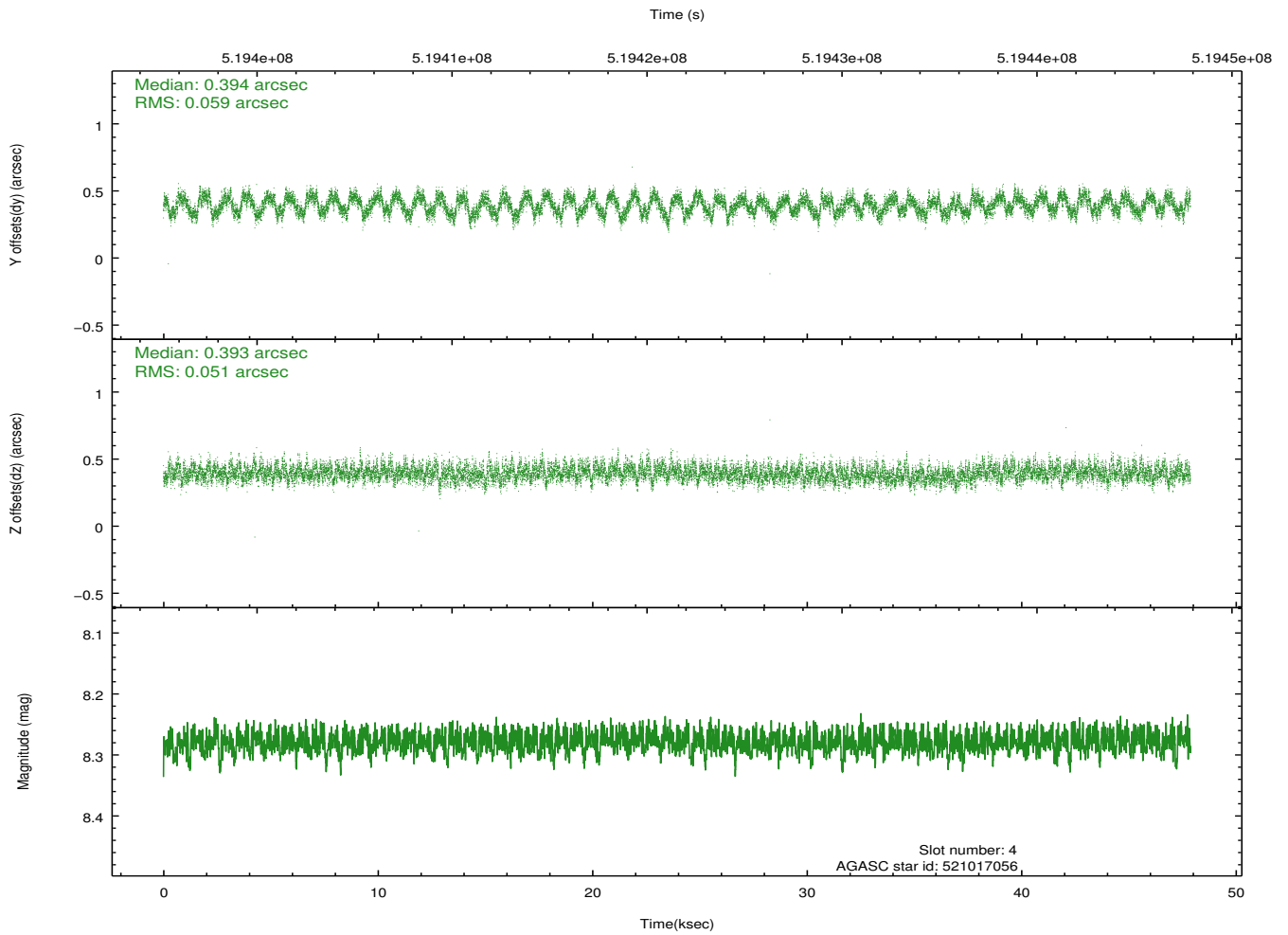
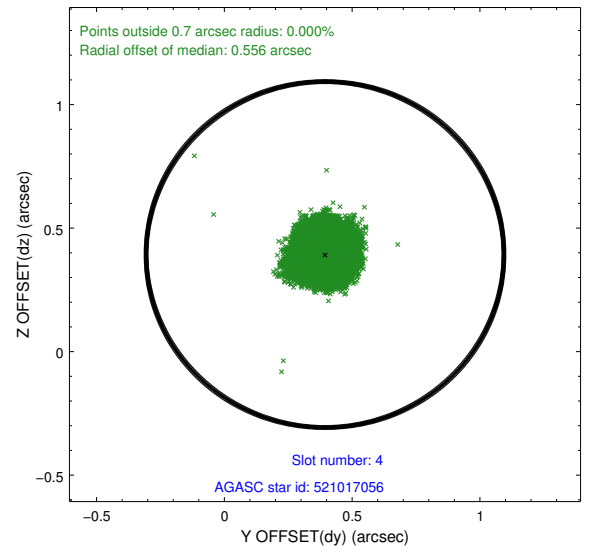
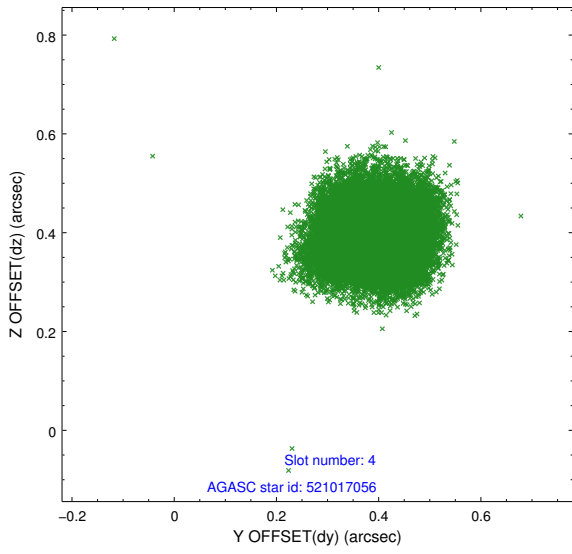
∞

2.4 Star Slots

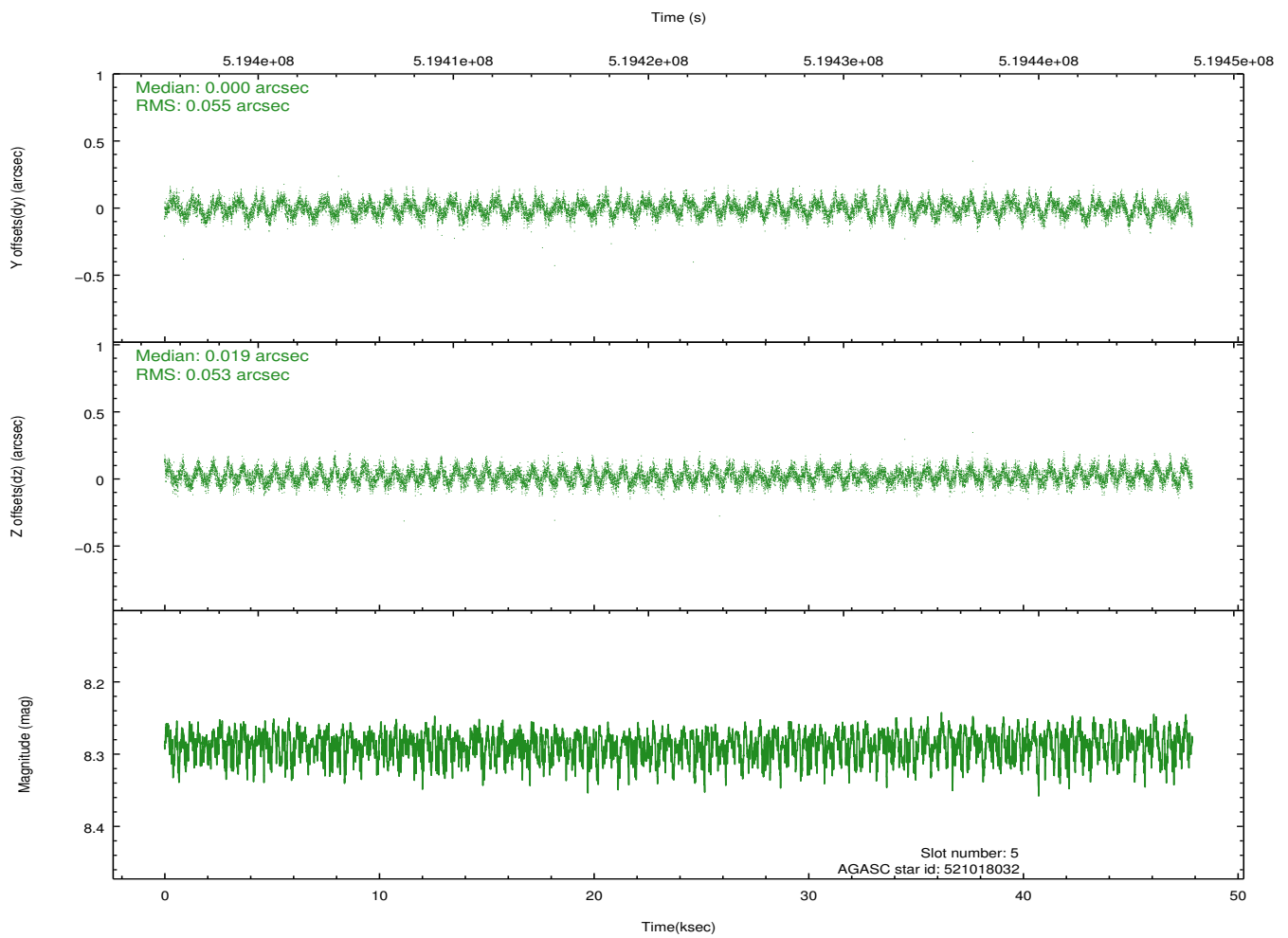
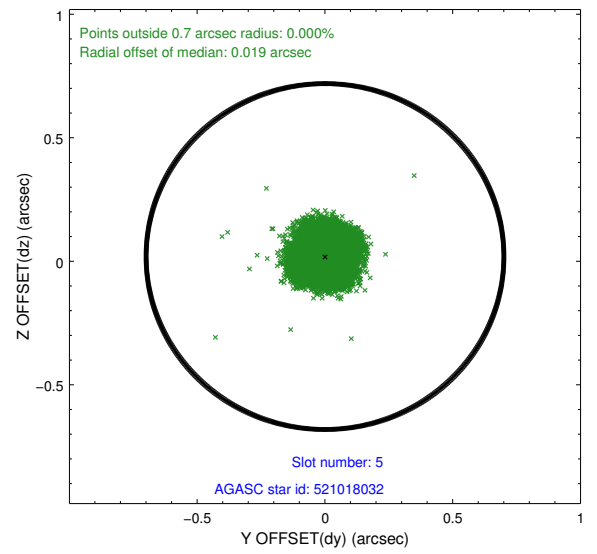
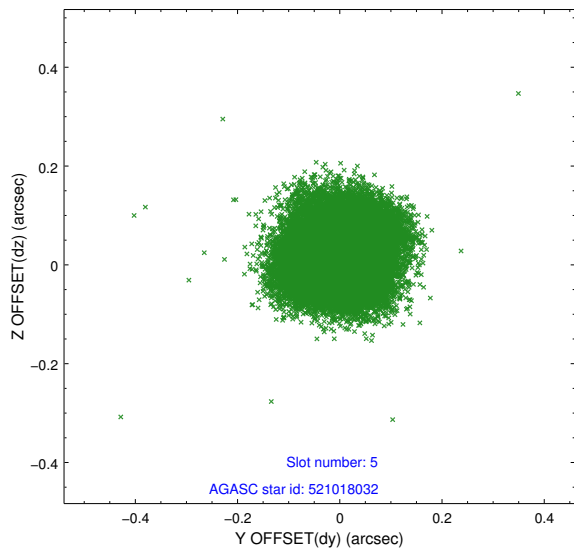
2.4.1 Slot 3



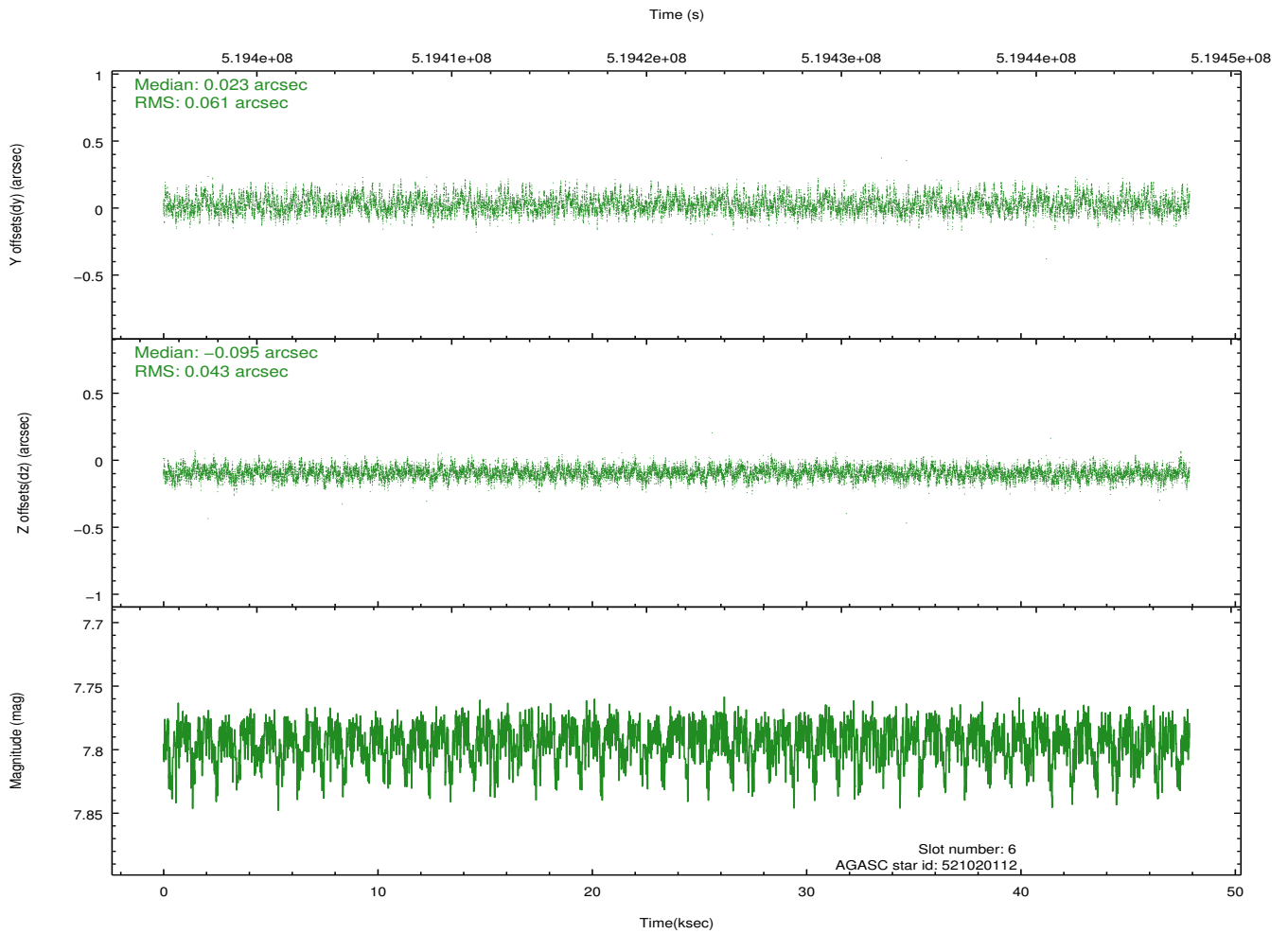
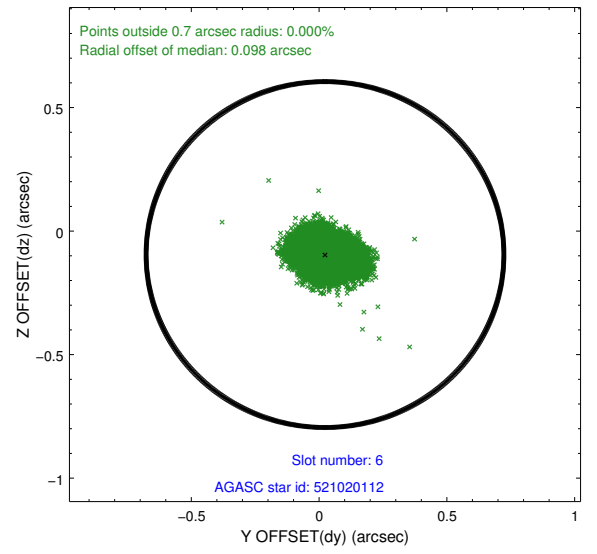
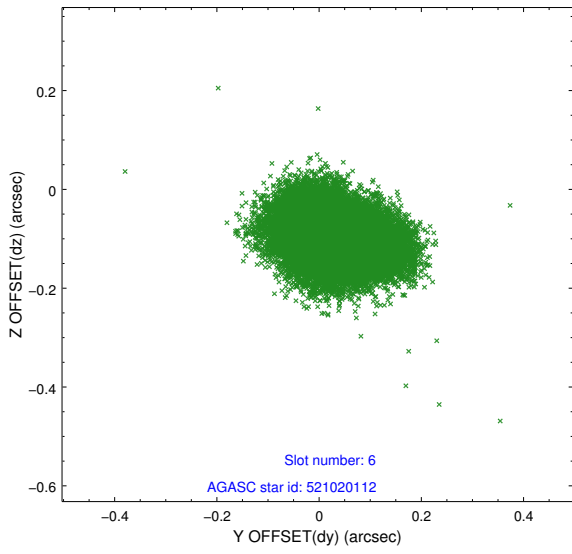
2.4.2 Slot 4



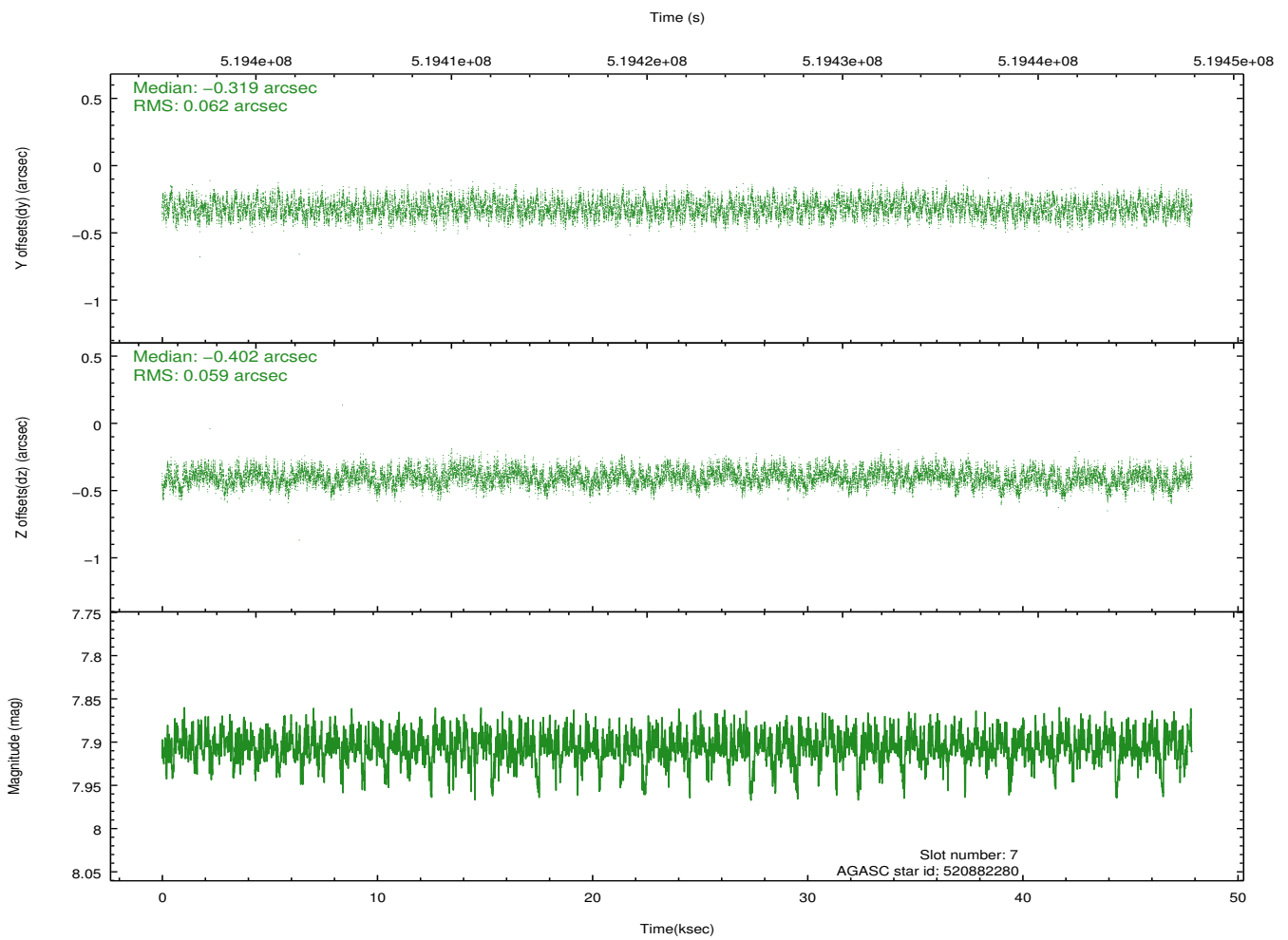
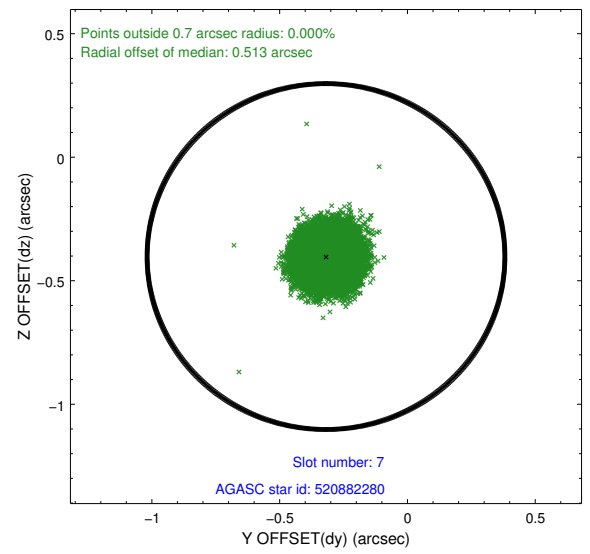
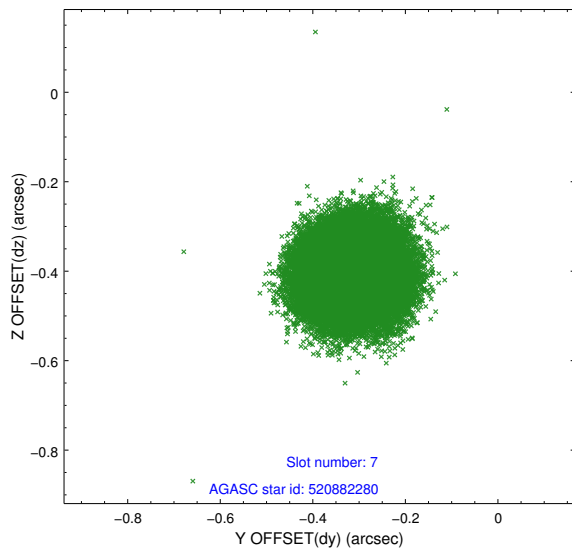
2.4.3 Slot 5



2.4.4 Slot 6

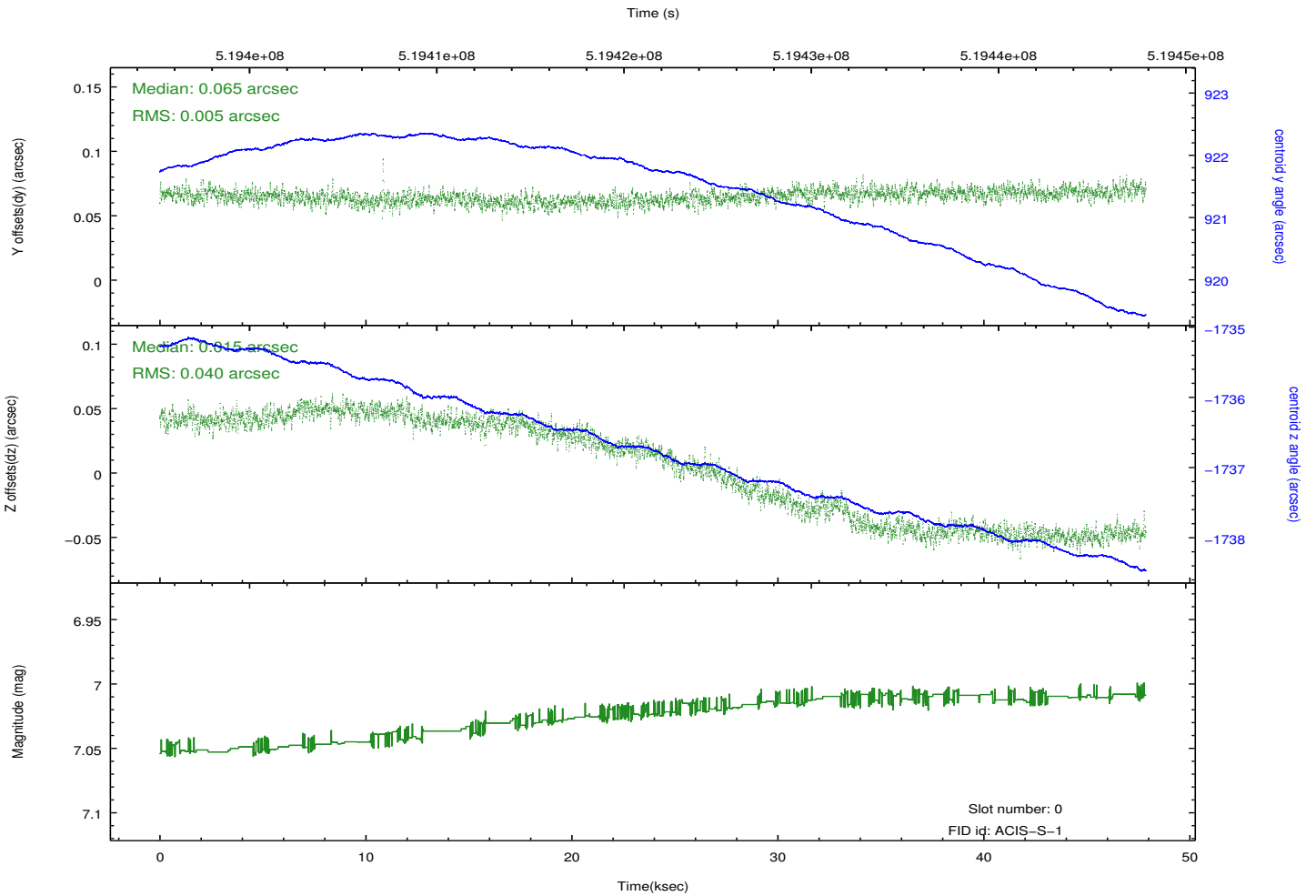
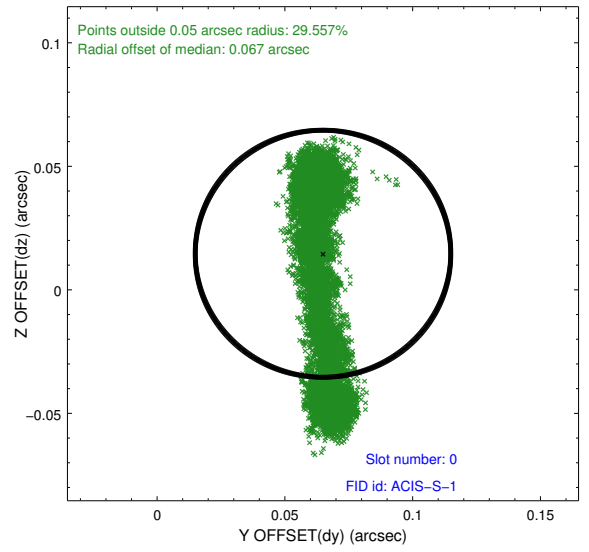
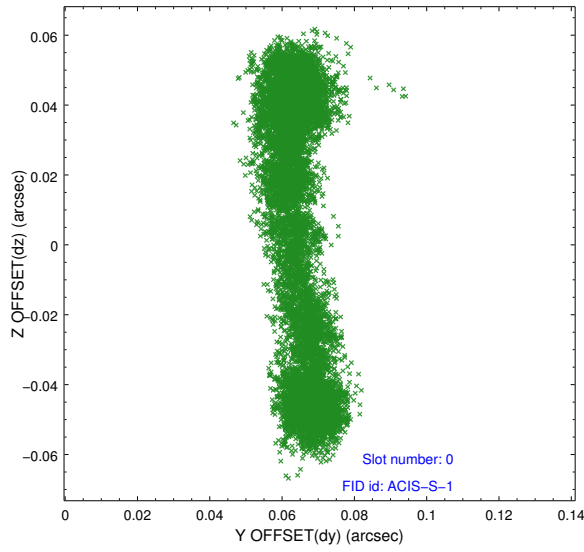


2.4.5 Slot 7

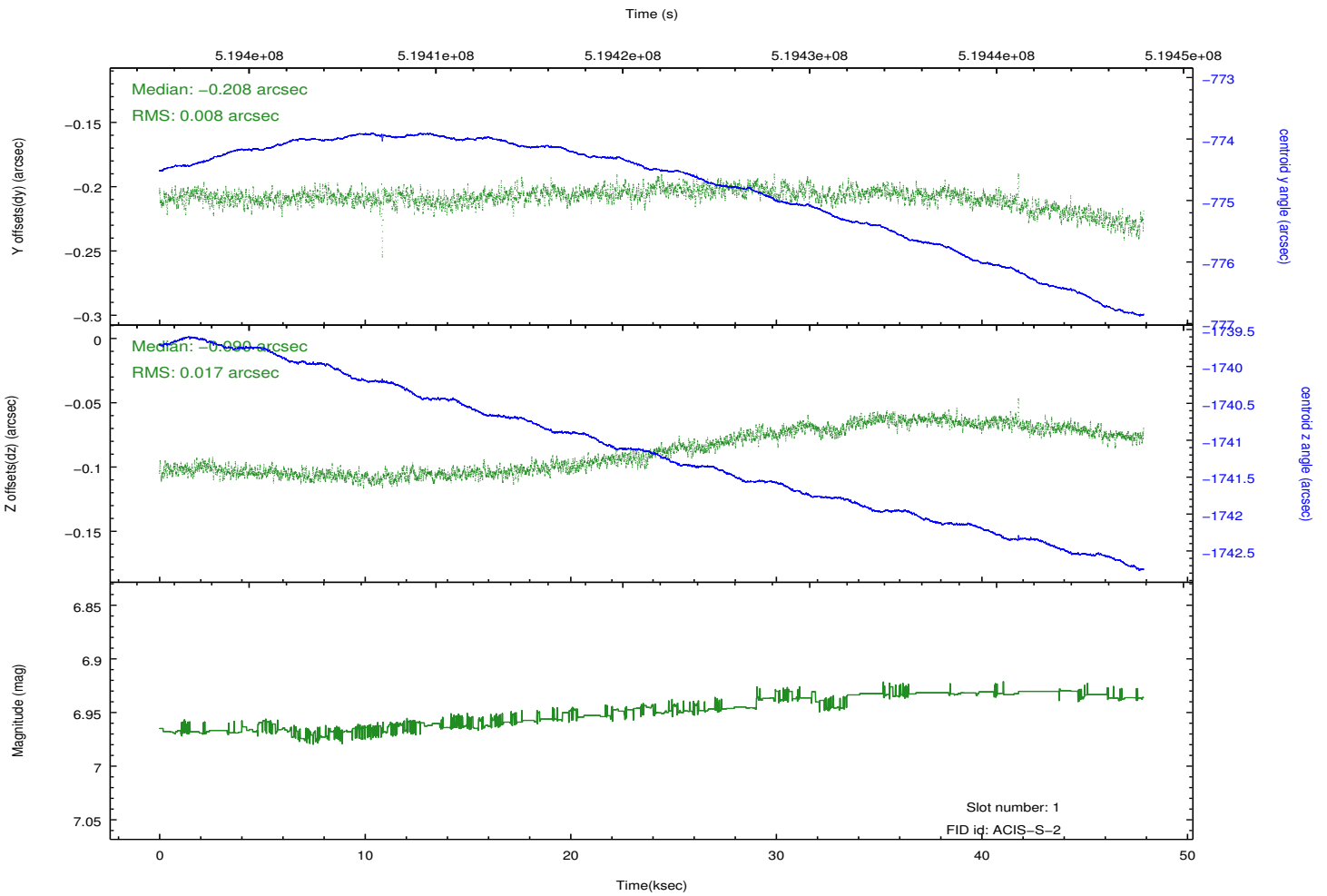
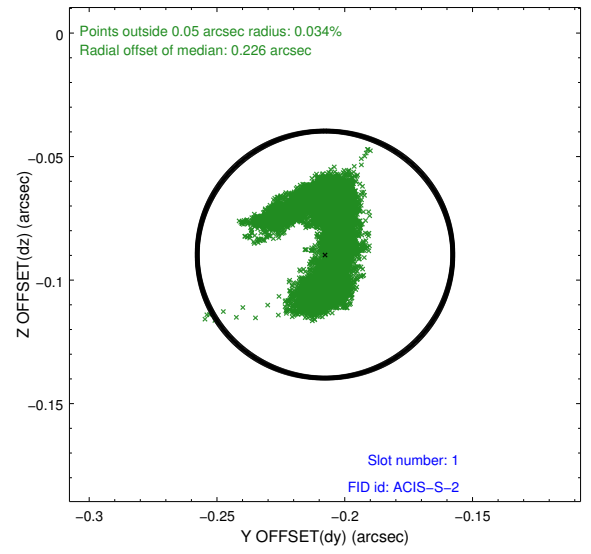
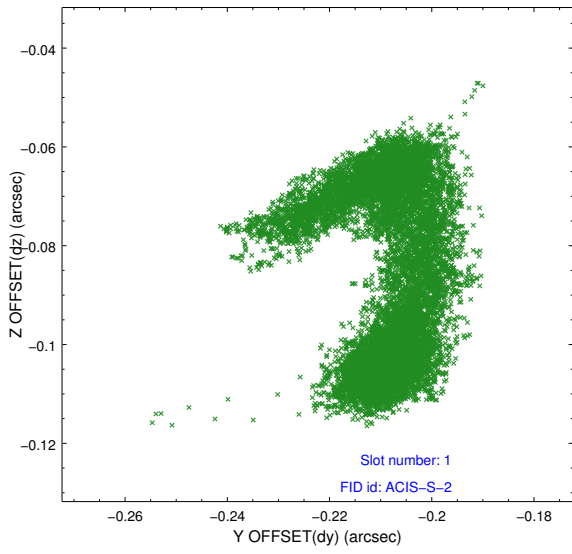


2.5 FID Slots

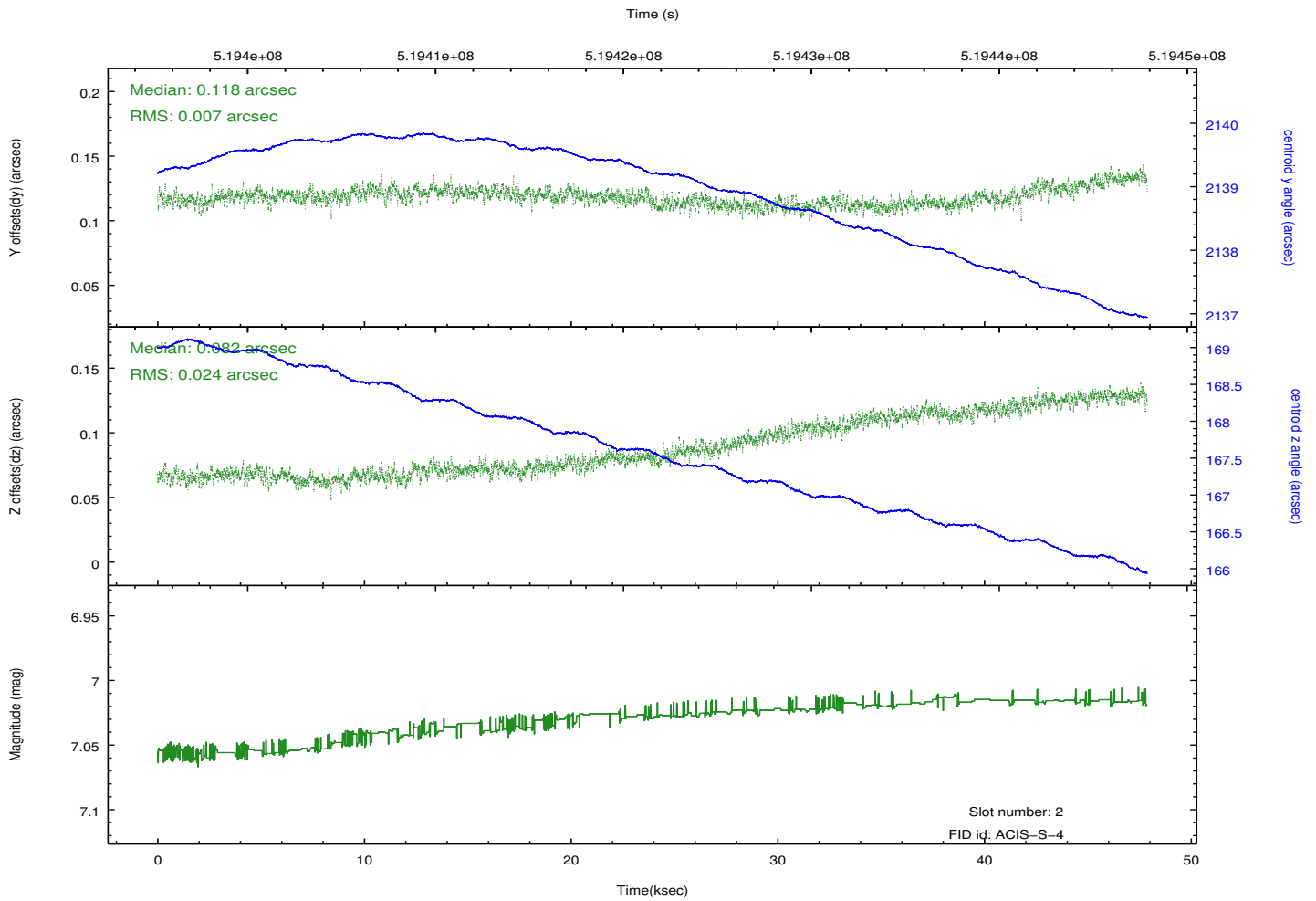
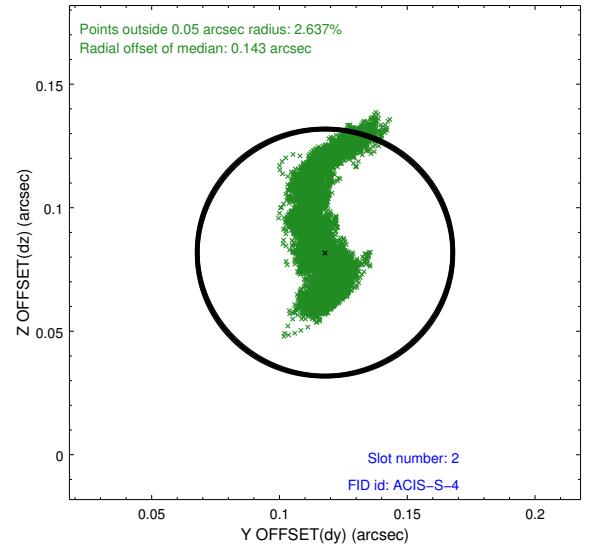
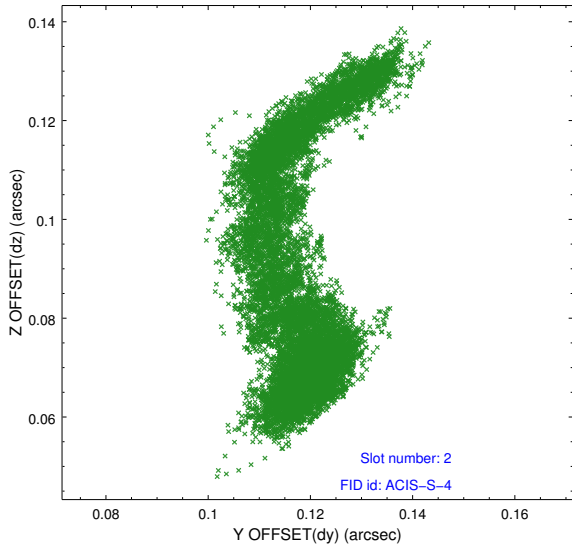
2.5.1 Slot 0



2.5.2 Slot 1

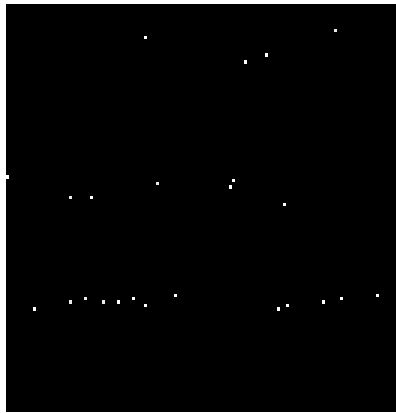


2.5.3 Slot 2

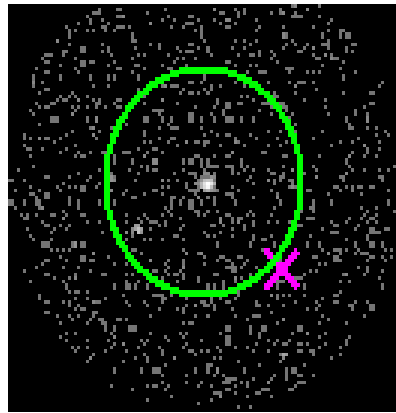


3 Gratings

3.1 HEG Arm



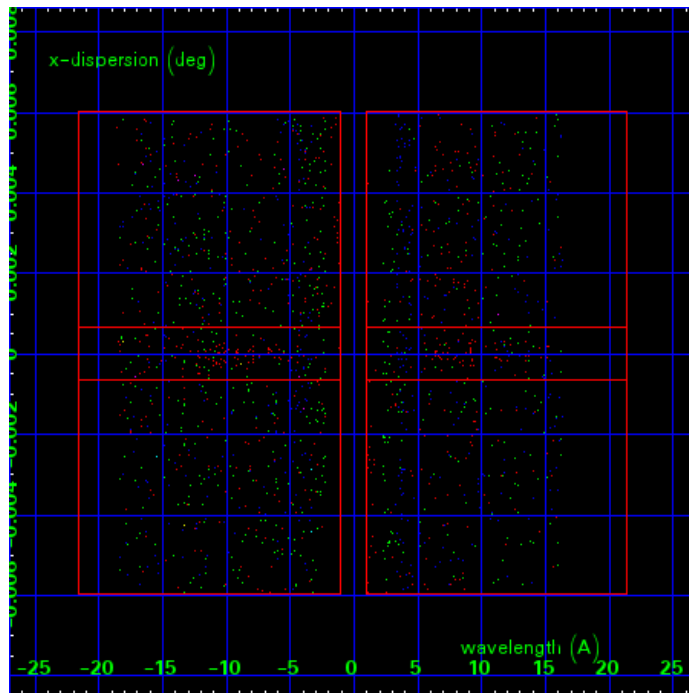
HEG Order Sort 123



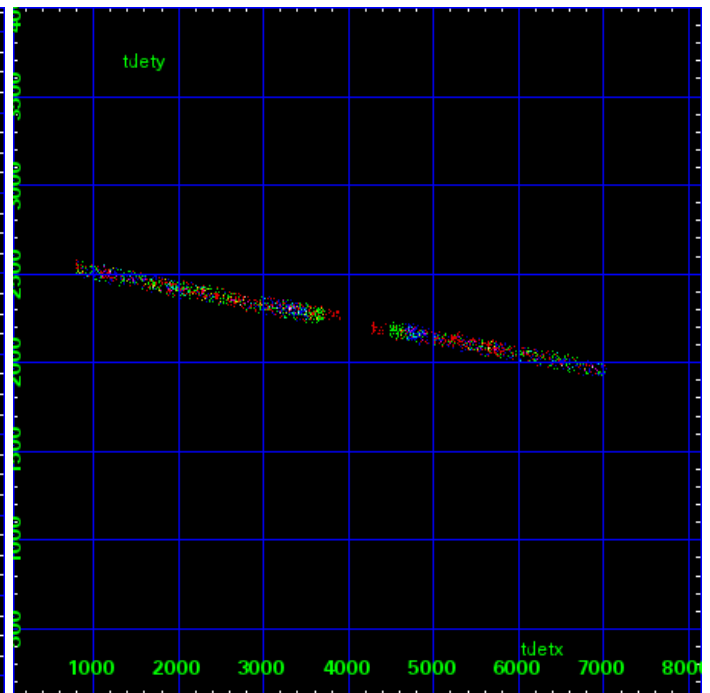
HEG Zero Order



HEG Order Sort ALL

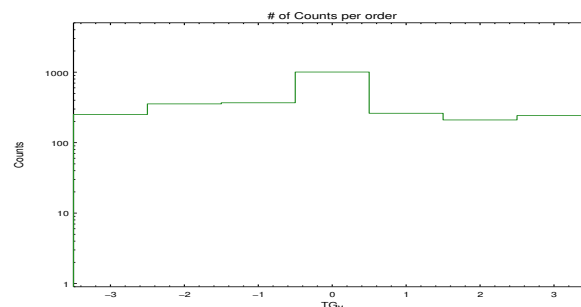


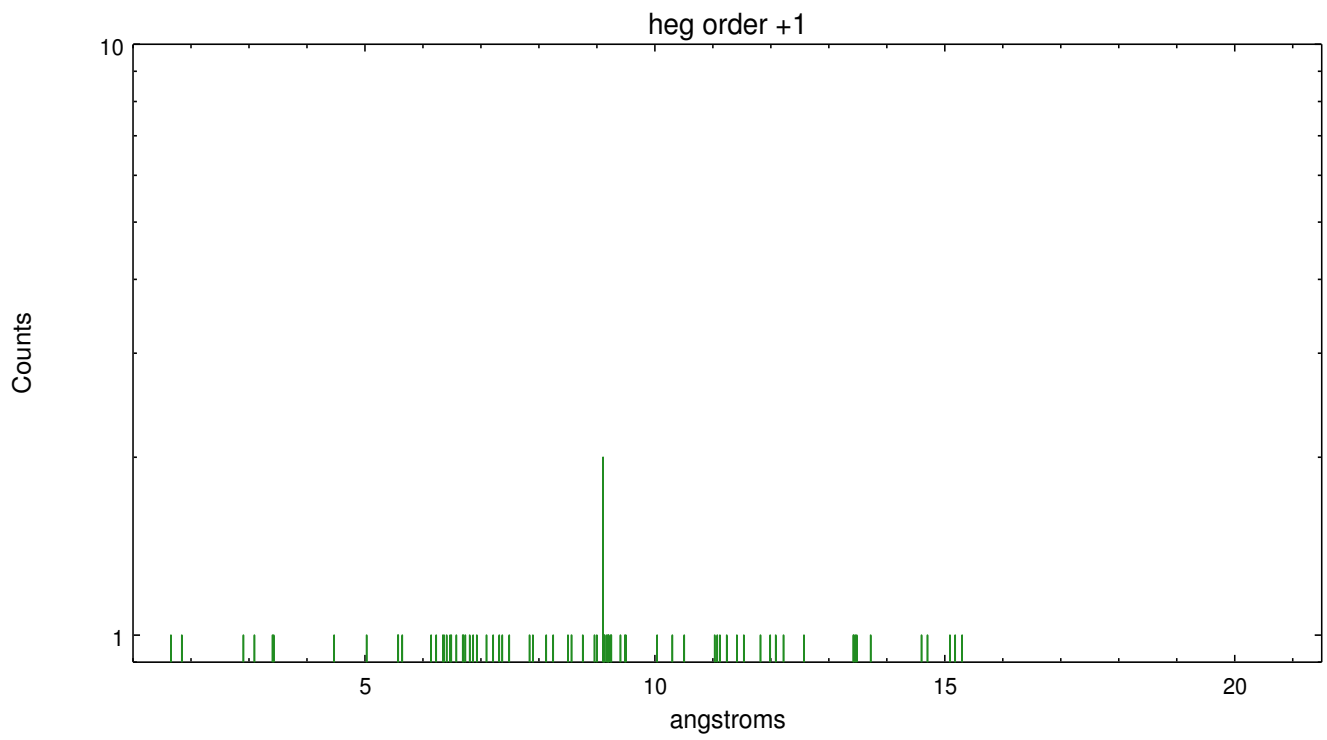
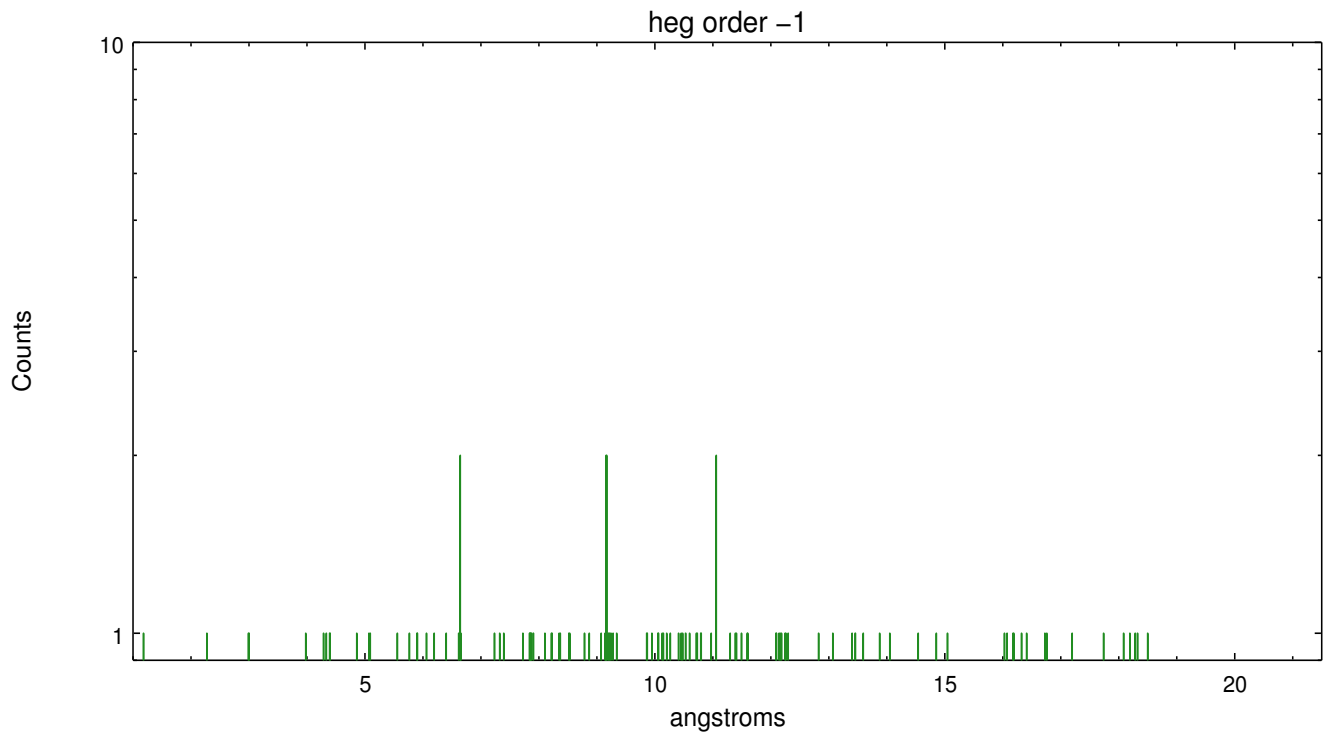
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	251	355	368	1005	261	210	242

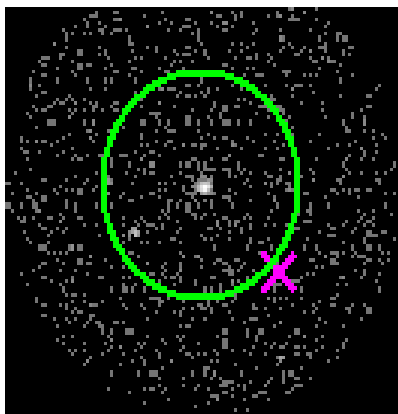




3.2 MEG Arm



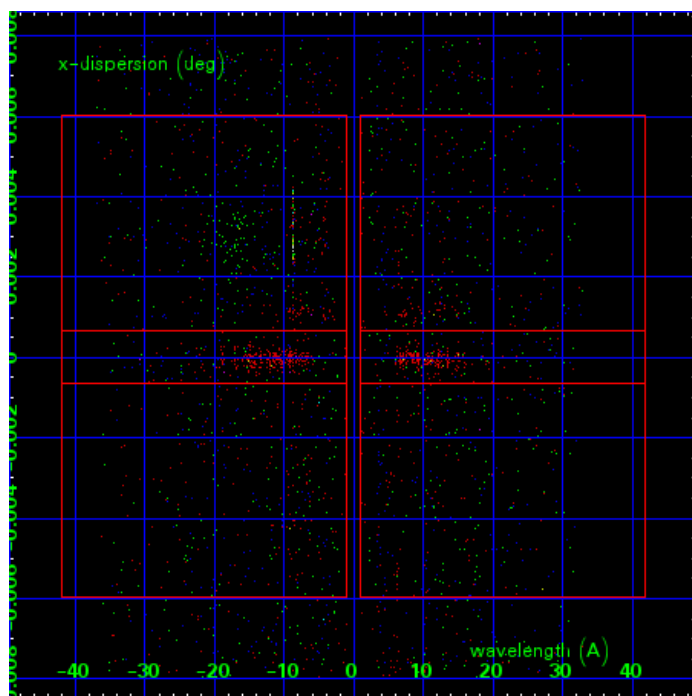
MEG Order Sort 123



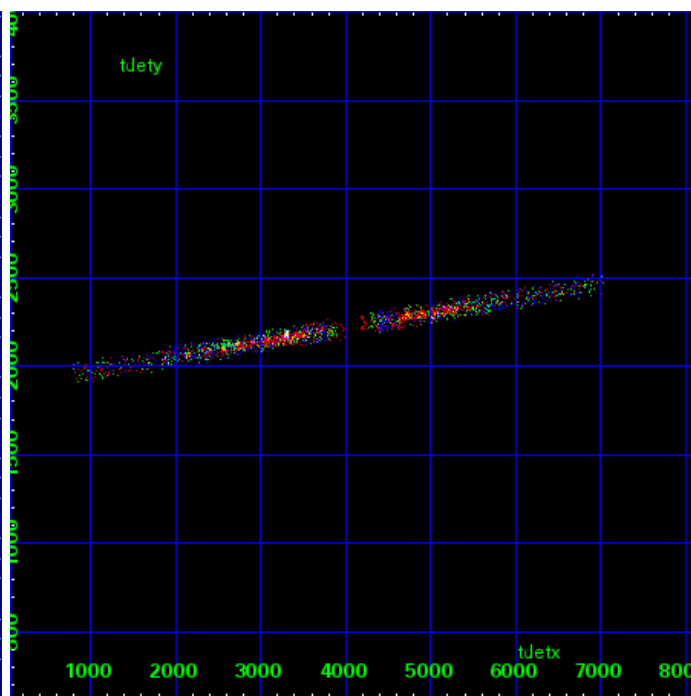
MEG Zero Order



MEG Order Sort ALL

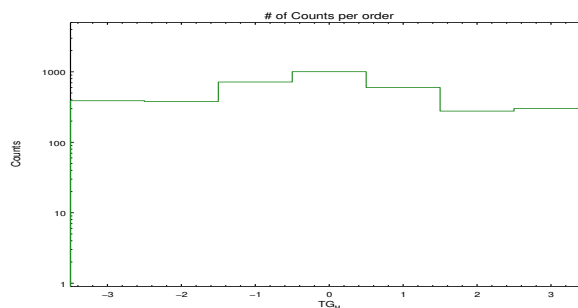


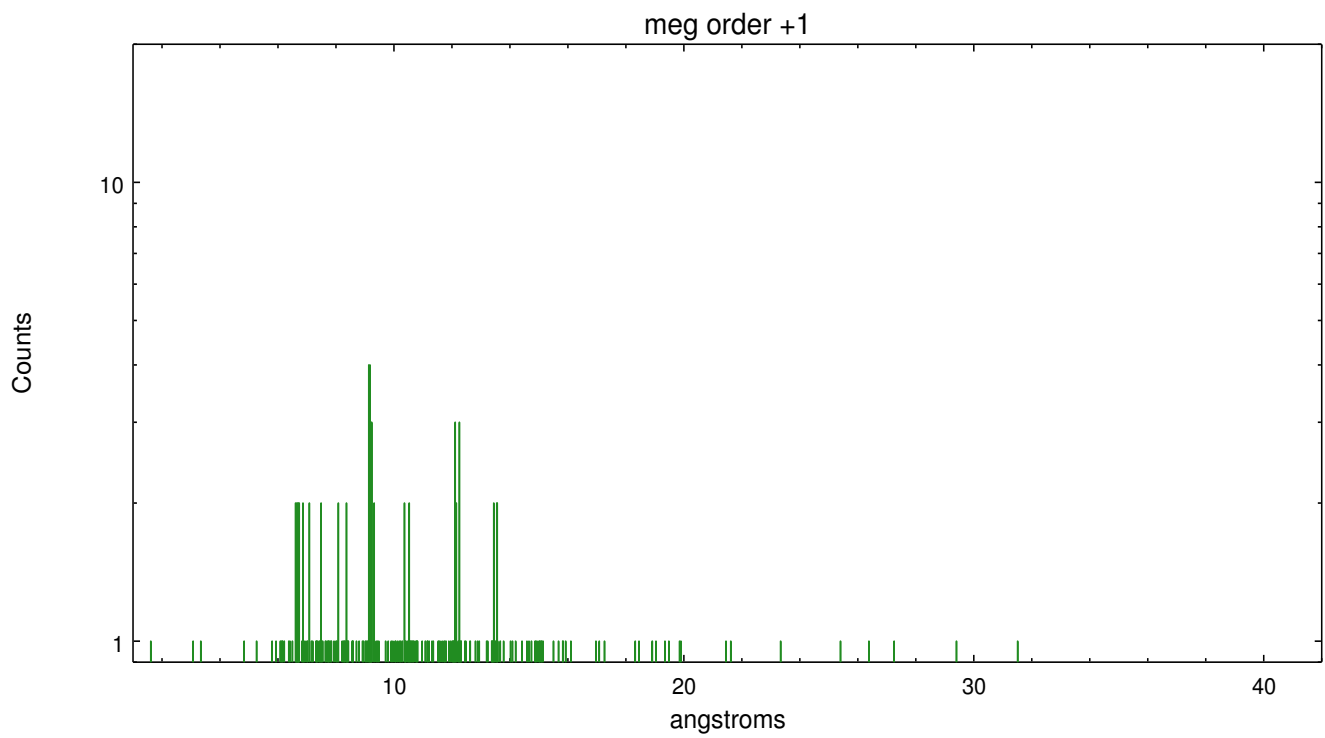
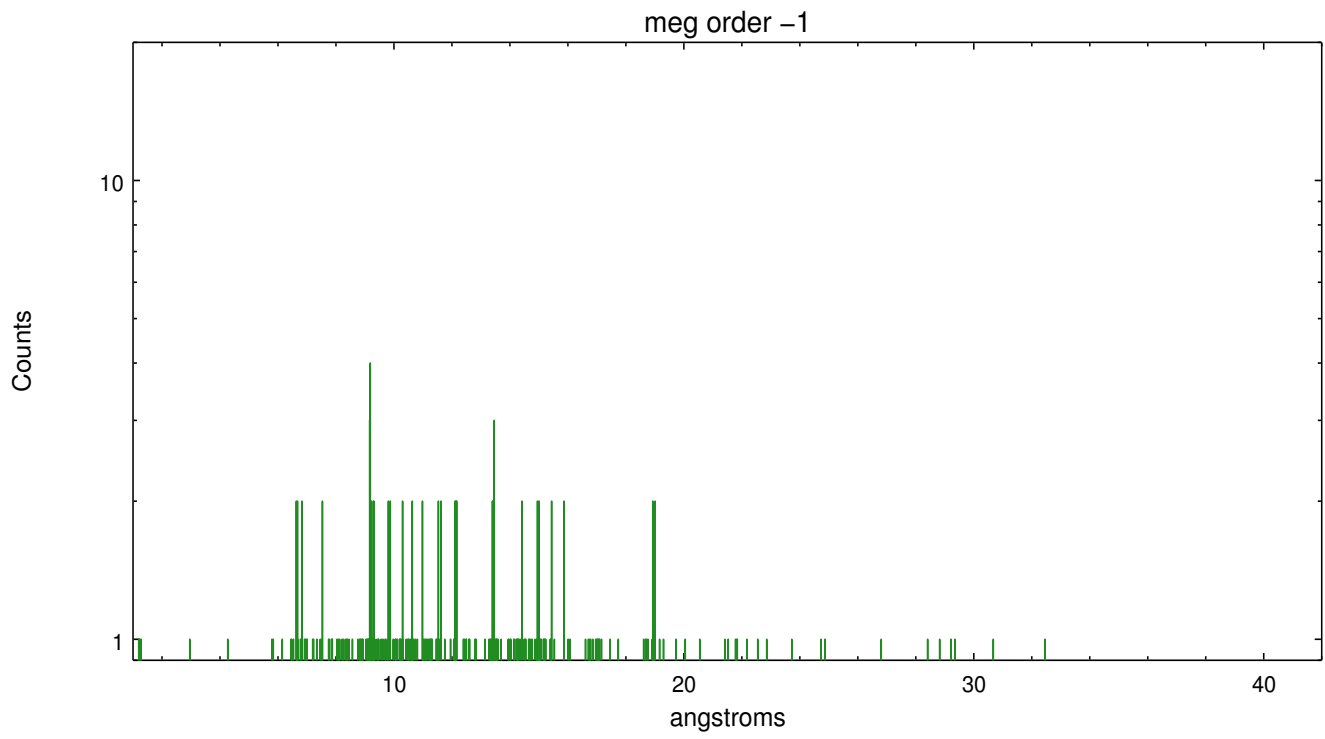
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	389	380	717	1005	599	277	301





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.678969815969

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.