

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 3825 - L2 Version 3
Chandra X-Ray Center

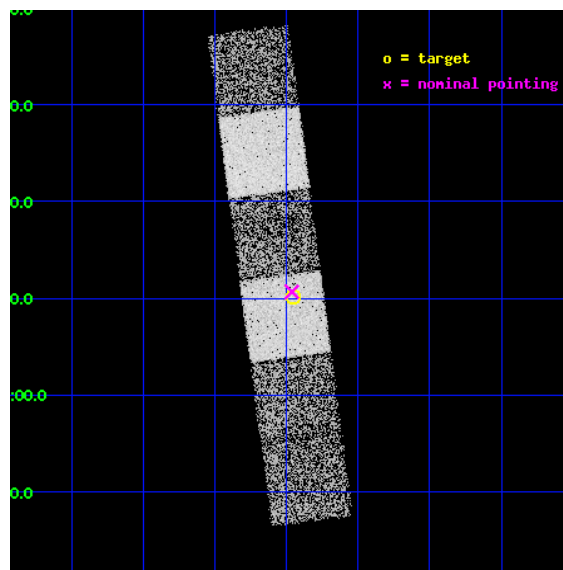
L2 Processing Date : Oct 25 2012

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1 Front

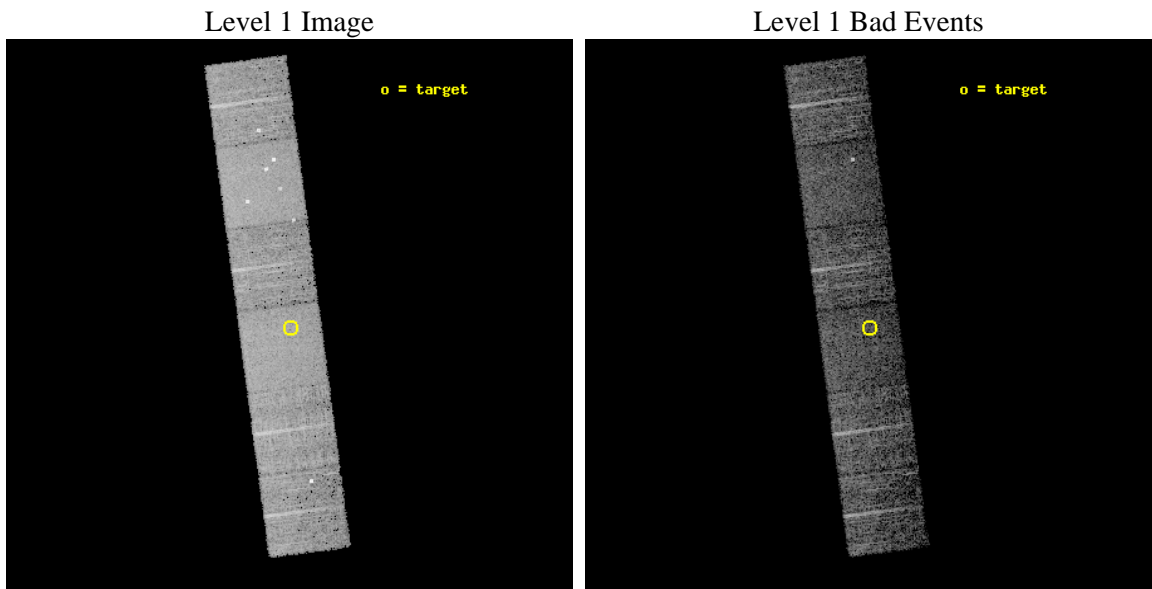
seq_num	400312	Sequence number
obs_id	3825	Observation id
title	SNAPSHOT SURVEY OF FOUR LMXBS	Proposal title
observer	Prof. Deepto Chakrabarty	Principal investigator
object	4U 1905+000	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.1125	Observer's specified target RA [deg]
dec_targ	0.168778	Observer's specified target Dec [deg]
ra_nom	287.11540744854	Nominal RA [deg]
dec_nom	0.17798108723868	Nominal Dec [deg]
roll_nom	82.395337545702	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4956.1283220947	Sum of GTIs [s]
livetime	4893.3708410581	Livetime [s]
ontime4	4956.169362098	Sum of GTIs [s]
ontime5	4956.0872820914	Sum of GTIs [s]
ontime6	4956.0462420881	Sum of GTIs [s]
ontime7	4956.1283220947	Sum of GTIs [s]
ontime8	4956.0052020848	Sum of GTIs [s]
ontime9	4955.9641621113	Sum of GTIs [s]
l2events	49627	Number of level 2 events



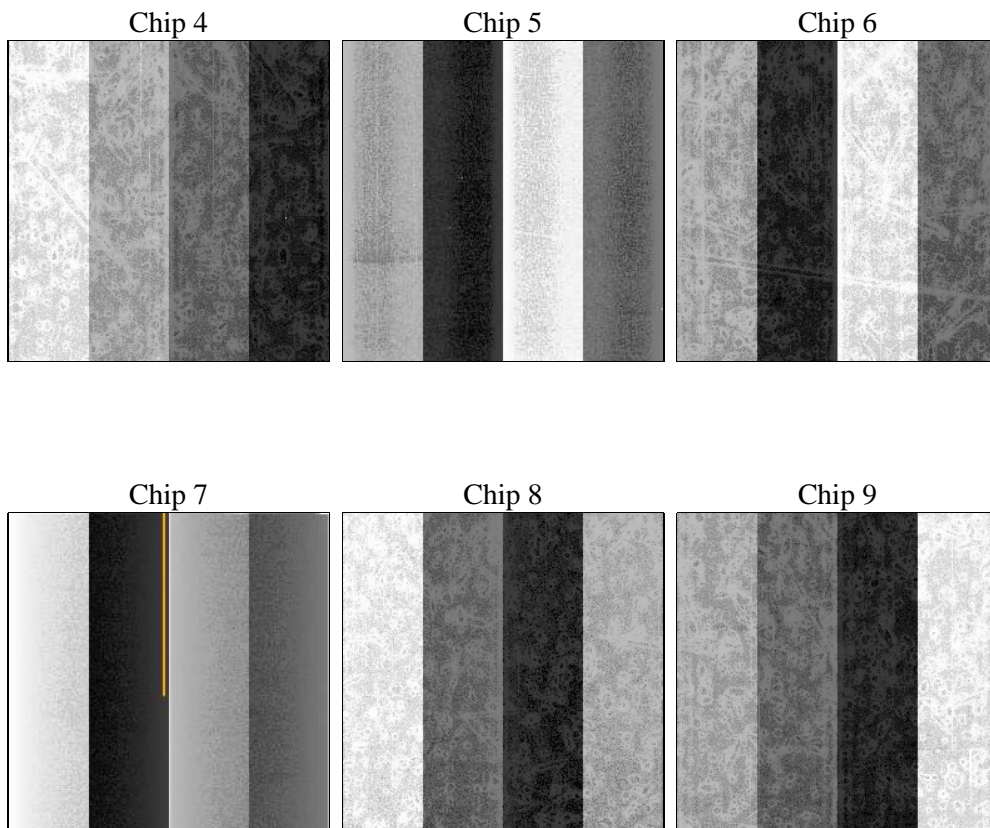
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4956.1283220947	Sum of GTIs [s]
caldsver	4.5.2	 	ontime4	4956.169362098	Sum of GTIs [s]
date	2012-10-24T12:51:39	Date and time of file creation	ontime5	4956.0872820914	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	4956.0462420881	Sum of GTIs [s]
			ontime7	4956.1283220947	Sum of GTIs [s]
			ontime8	4956.0052020848	Sum of GTIs [s]
			ontime9	4955.9641621113	Sum of GTIs [s]
			l1events	233396	Number of level 1 events

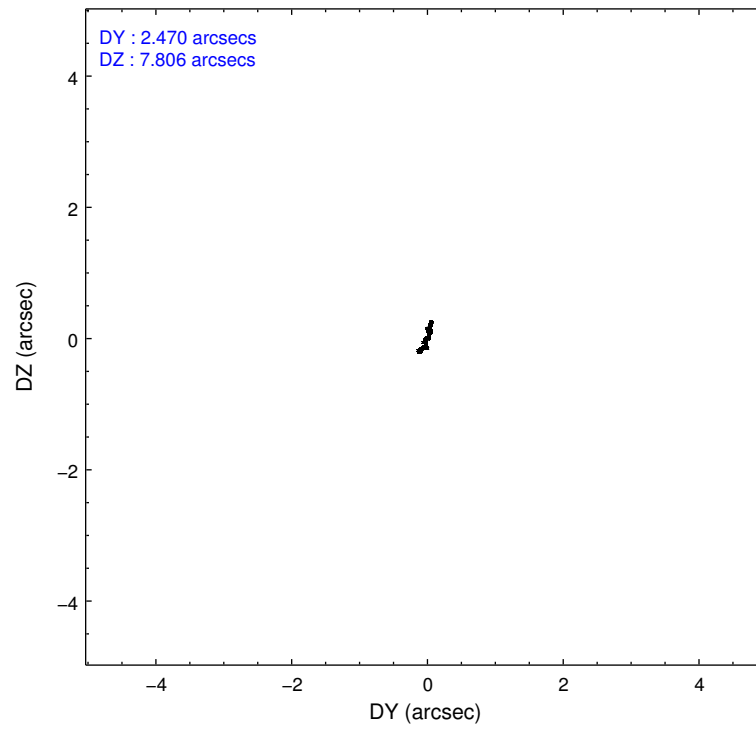
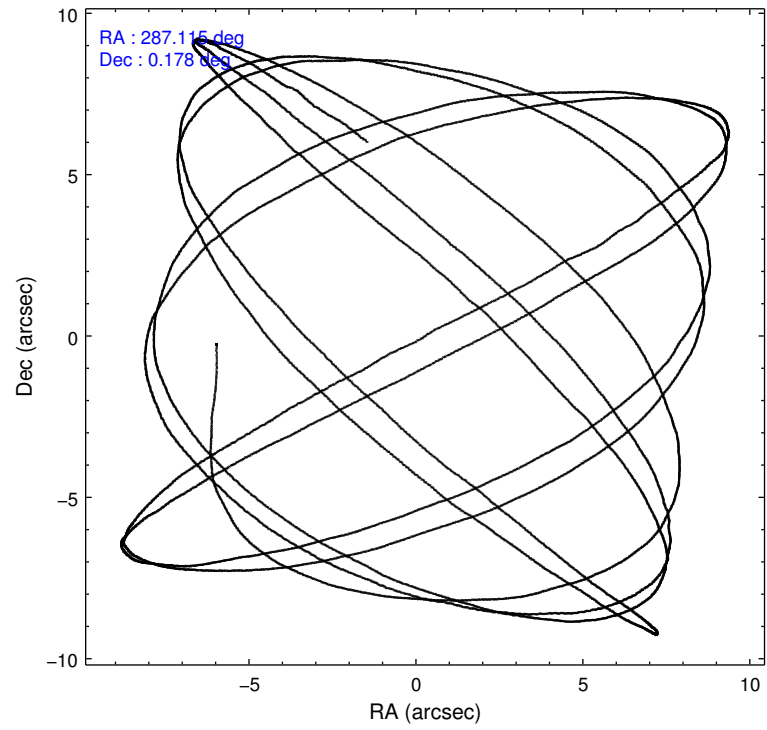
2.1.4 Events

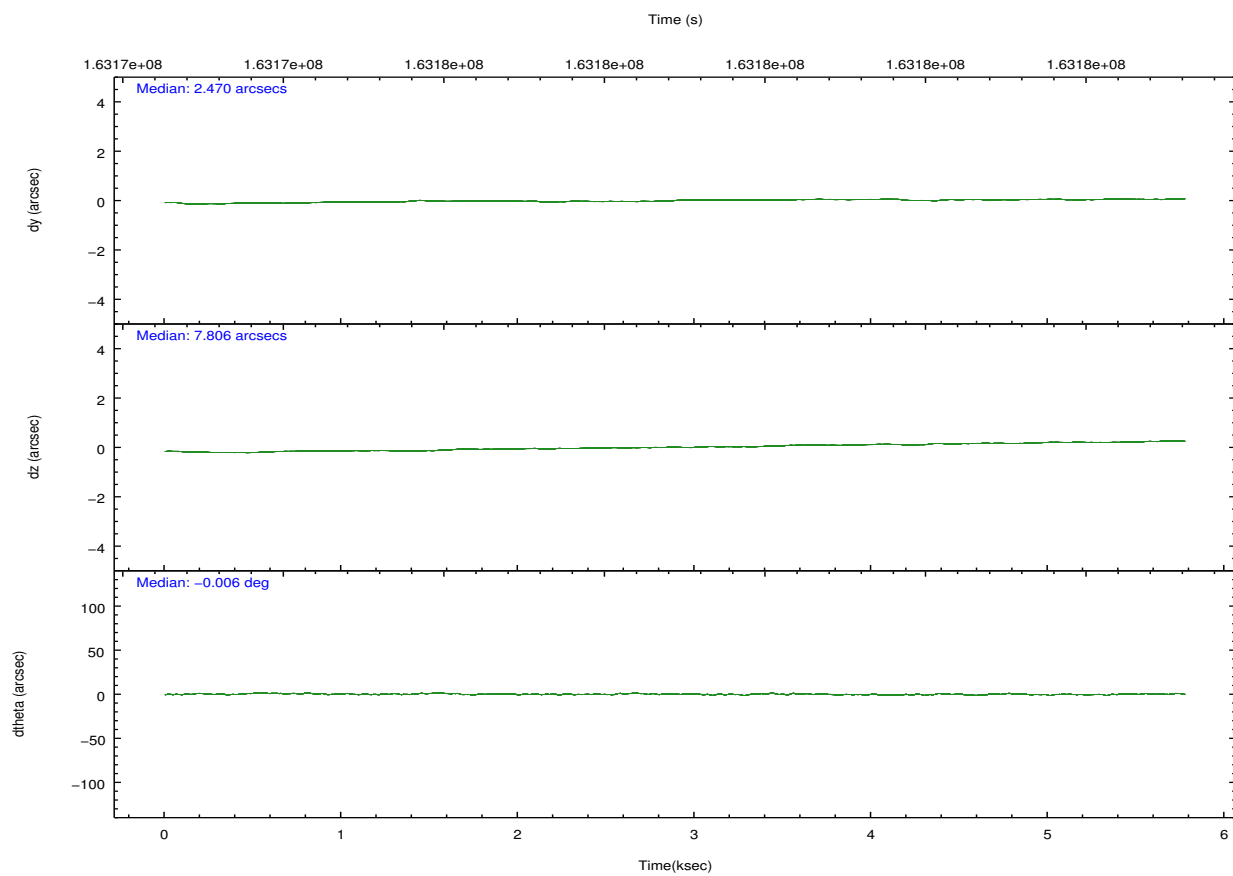
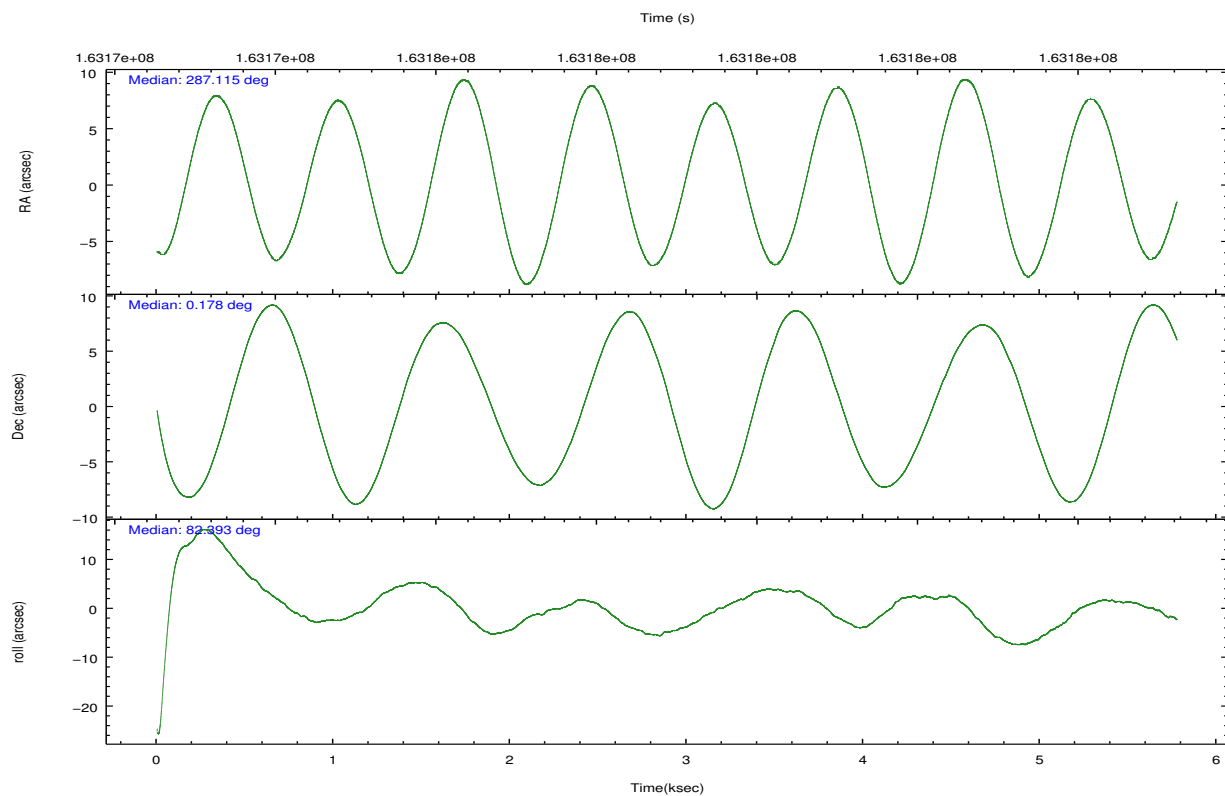
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	36075	49086	33230	42090	40471	32444	grade 0 events	2442	4025	1461	1530	2699	2838
rejected events	31385	26002	29543	24700	31896	27401		6%	8%	4%	3%	6%	8%
rejected %	86%	52%	88%	58%	78%	84%	grade 1 events	28	310	25	39	33	20
								0%	0%	0%	0%	0%	0%
							grade 2 events	838	6366	753	3493	1886	708
								2%	12%	2%	8%	4%	2%
							grade 3 events	399	844	365	1505	910	416
								1%	1%	1%	3%	2%	1%
							grade 4 events	397	885	379	1519	847	347
								1%	1%	1%	3%	2%	1%
							grade 5 events	1346	3597	1426	3948	1827	1514
								3%	7%	4%	9%	4%	4%
							grade 6 events	619	10992	732	9375	2276	744
								1%	22%	2%	22%	5%	2%
							grade 7 events	30006	22067	28089	20681	29993	25857
								83%	44%	84%	49%	74%	79%

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	287.126156	287.1154074485425	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.152959	0.1779810872386786	Alternating exposures requested	N	N
[deg] Pointing Roll	82.238764	82.39533754570223	[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	-187.132523	-187.1228876879999			
[mm] SIM translation stage offset	-3	-3.009634895007935			
[s] Observation start time (MET)	163174332.184000	163173076.00653			
Observation start date	2003-03-04T14:11:08	2003-03-04T13:51:16			
[s] Observation end time (MET)	163179332.184000	163179966.05682			
Observation end date	2003-03-04T15:34:28	2003-03-04T15:46:06			
Read mode	TIMED	TIMED			

2.3 Aspect



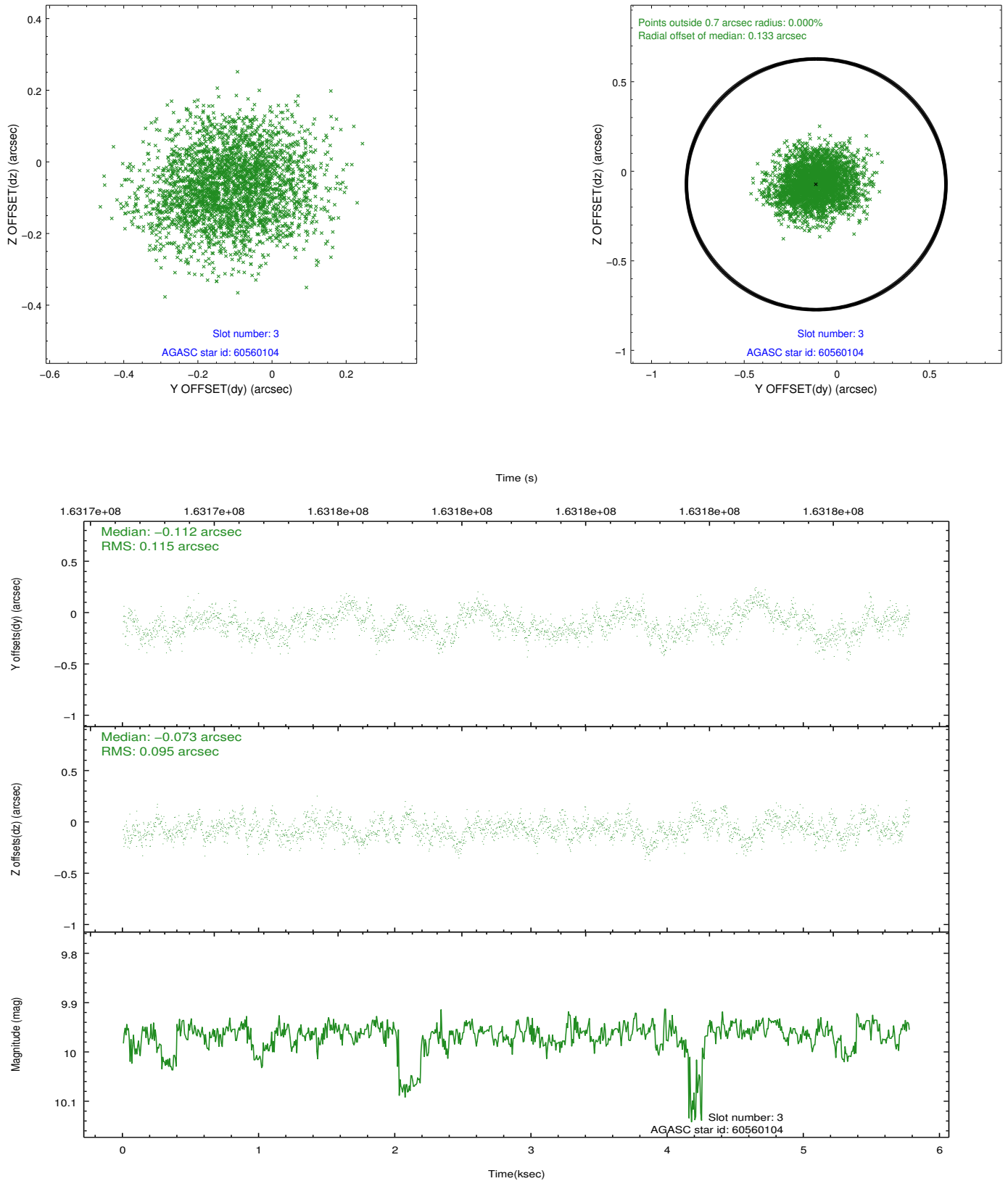


Slot Statistics

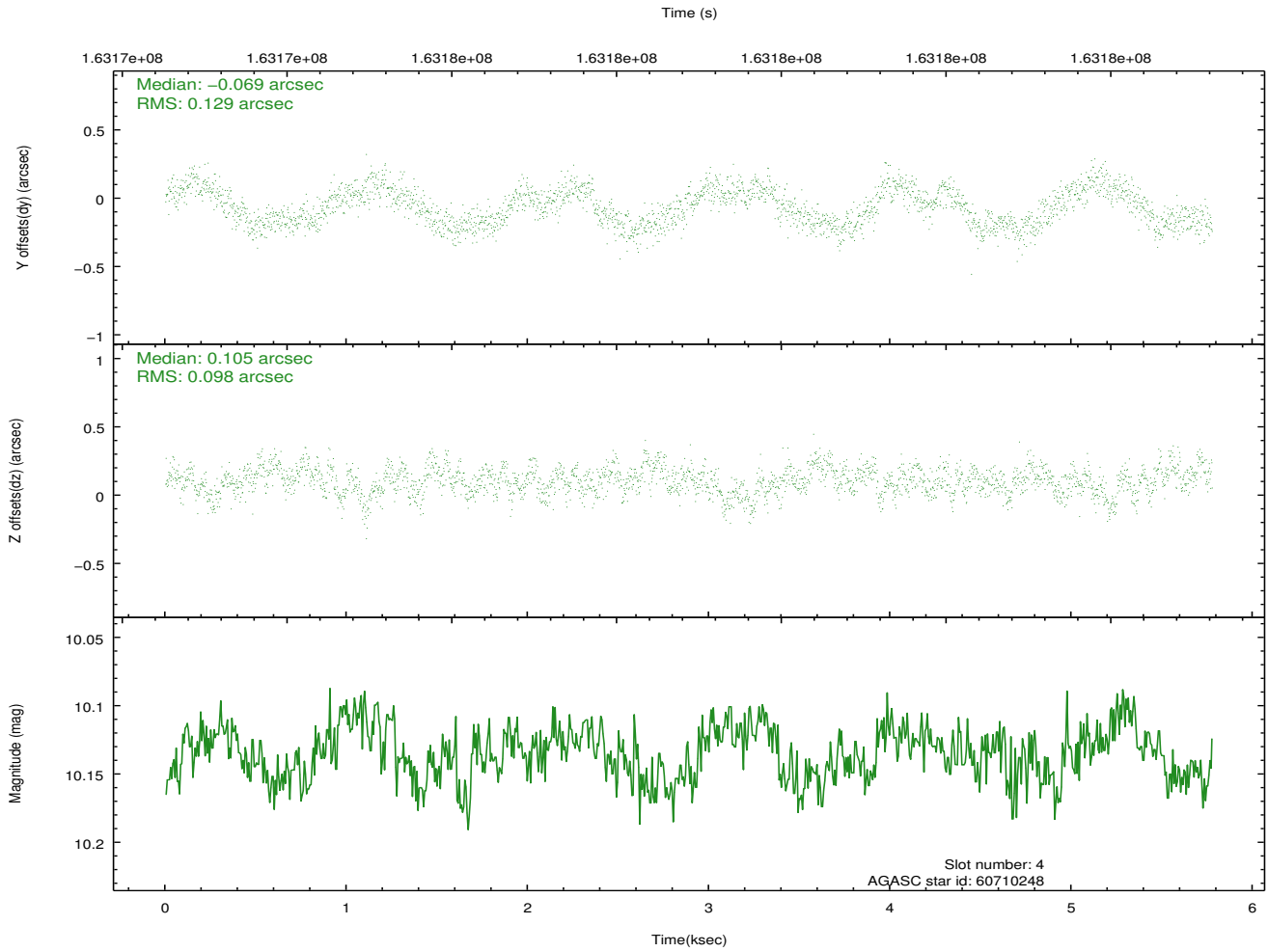
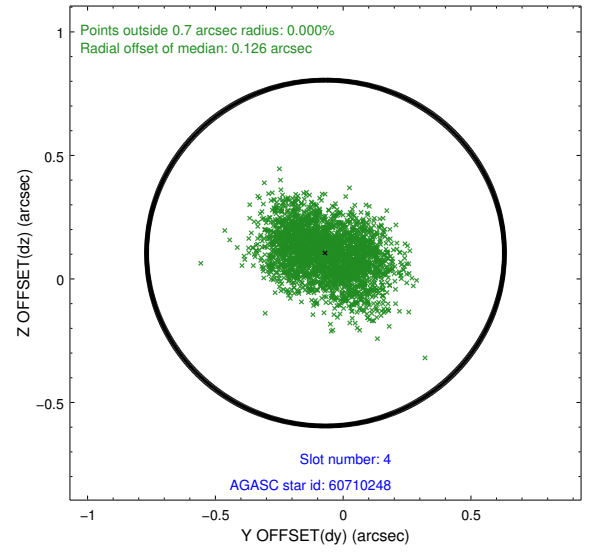
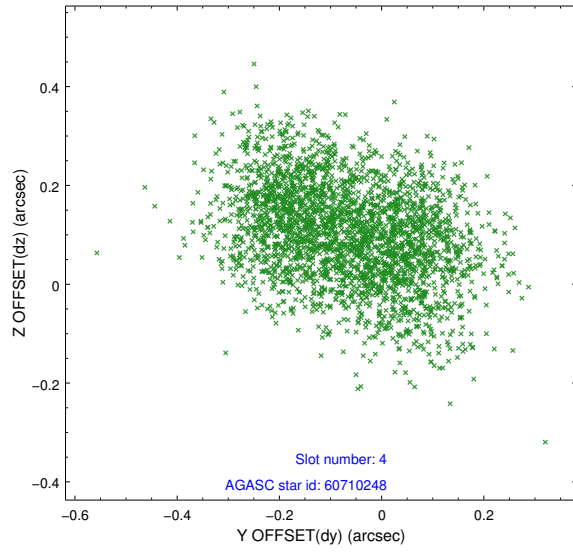
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	1409	-0.003	0.029	0.012	0.018	0.000000	0.000000	941.17	-1786.73
1	FID	ACIS-S-4	7.19	1409	-0.015	-0.015	0.010	0.016	0.000000	0.000000	2159.12	116.29
2	FID	ACIS-S-5	7.23	1409	-0.009	-0.003	0.007	0.013	0.000000	0.000000	-1806.40	111.01
3	GUIDE	60560104	9.97	2813	-0.112	-0.073	0.161	0.258	286.743677	0.859001	2332.49	1707.55
4	GUIDE	60710248	10.14	2816	-0.069	0.105	0.174	0.269	287.369185	0.548154	1528.77	-673.91
5	GUIDE	60710592	9.37	2815	0.060	-0.187	0.103	0.164	287.035703	0.265770	359.12	377.10
6	GUIDE	672270944	6.81	2817	0.095	0.094	0.063	0.100	287.464983	-0.428115	-1907.60	-1490.94
7	GUIDE	672281216	9.30	2815	0.017	0.066	0.086	0.139	287.454836	-0.067927	-628.57	-1280.23

2.4 Star Slots

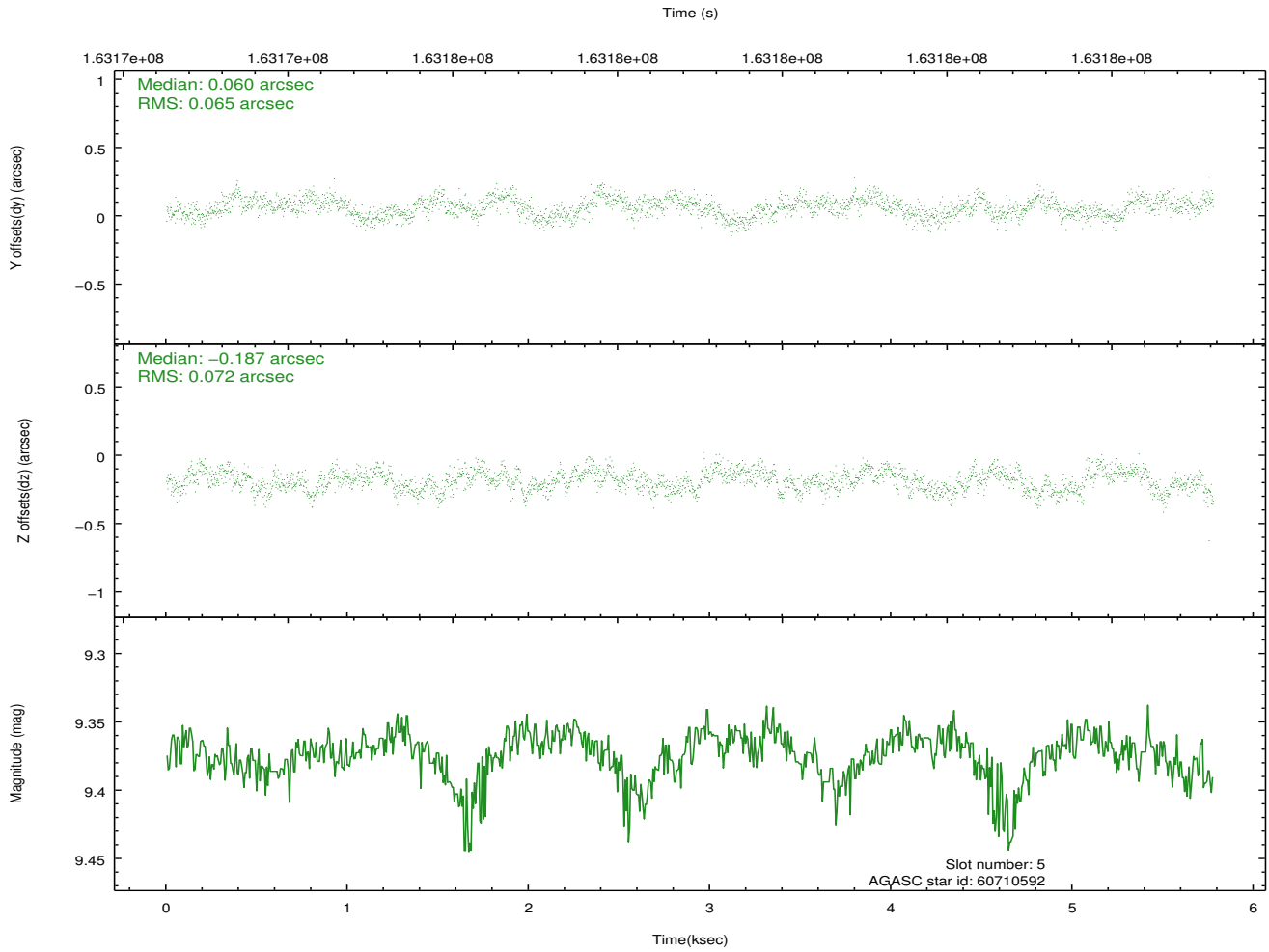
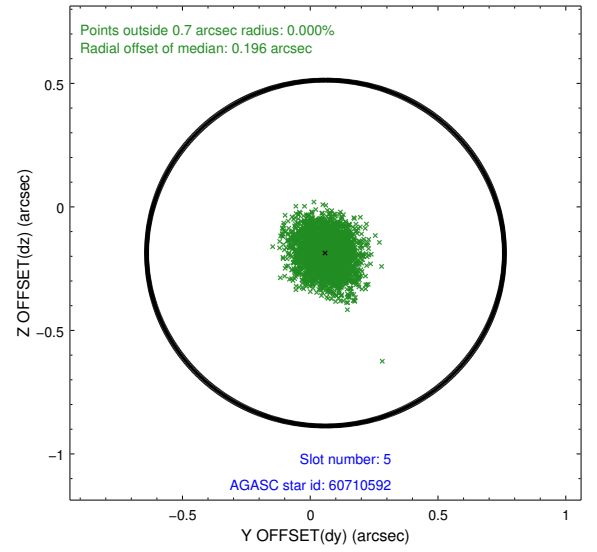
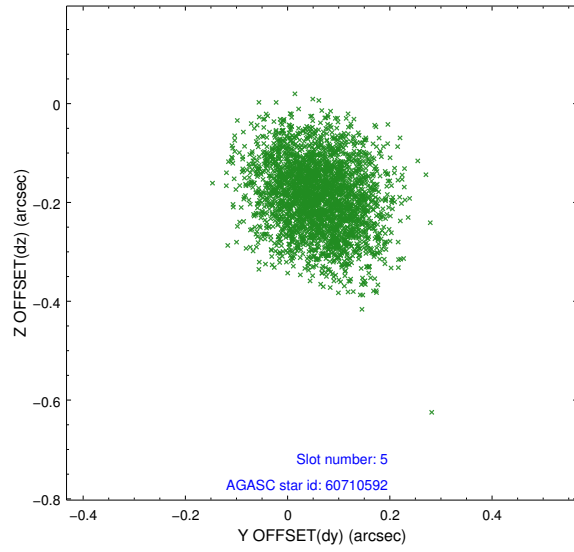
2.4.1 Slot 3



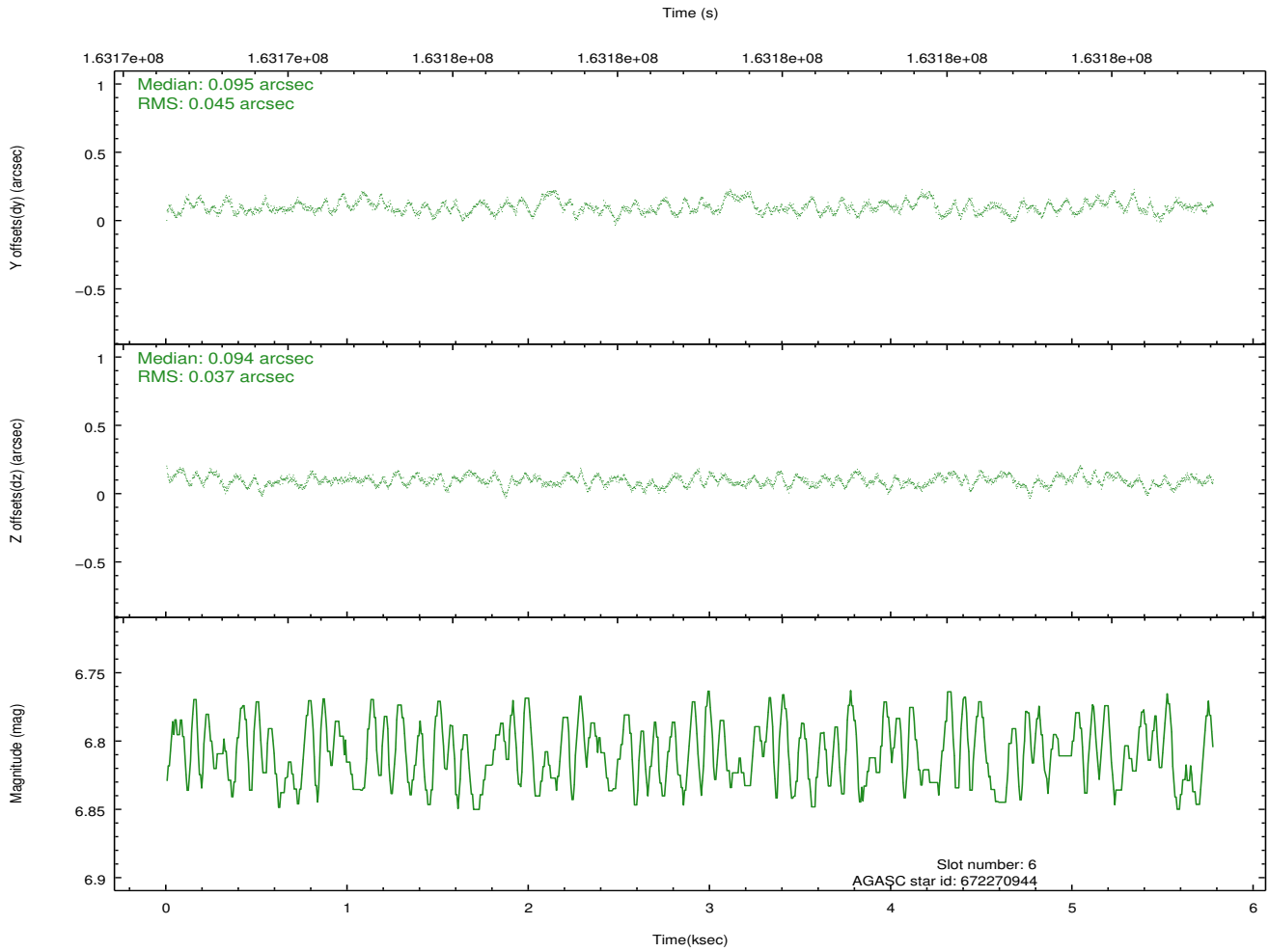
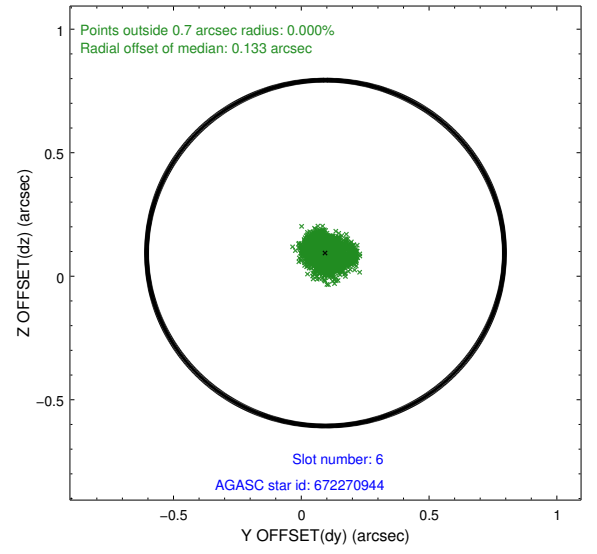
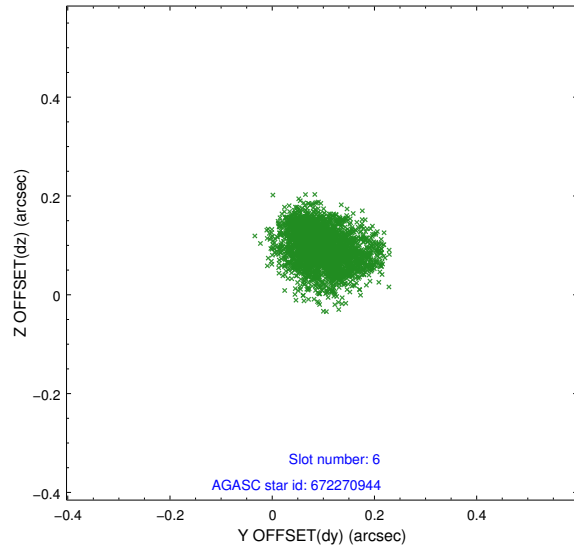
2.4.2 Slot 4



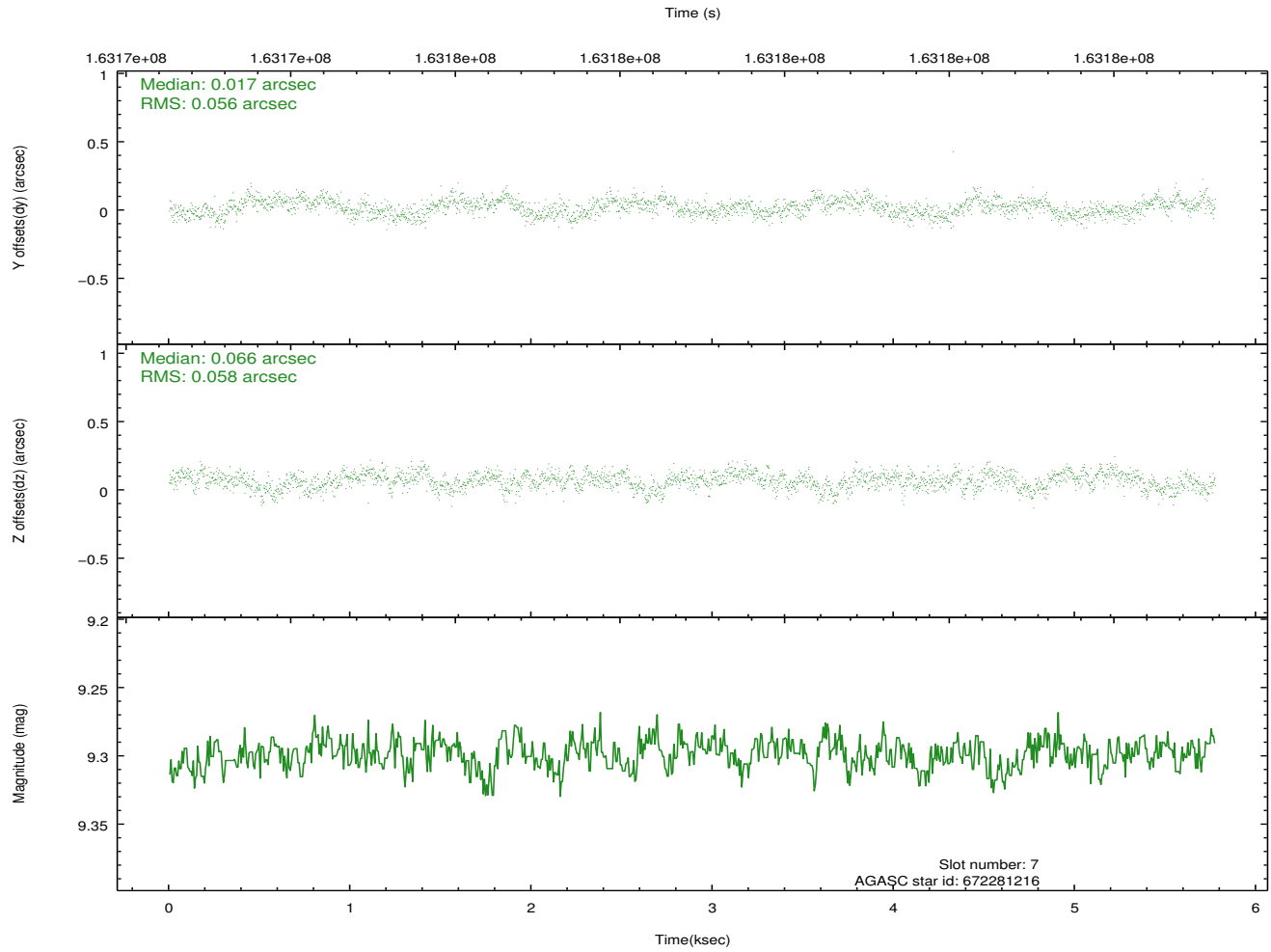
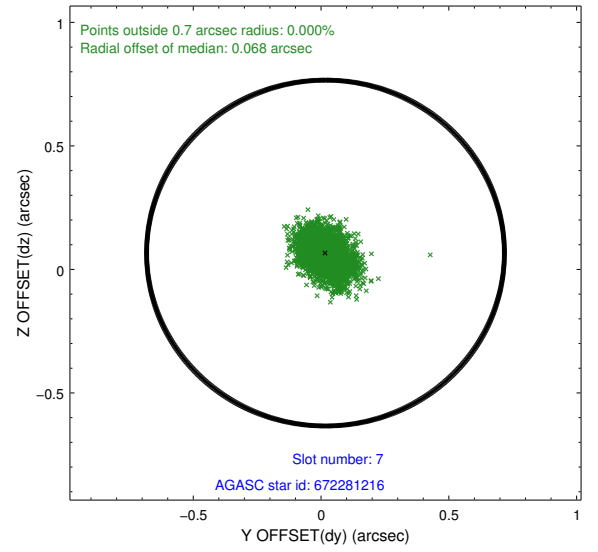
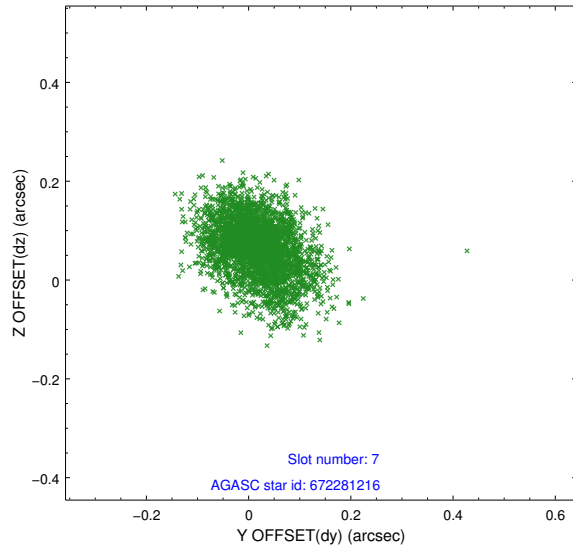
2.4.3 Slot 5



2.4.4 Slot 6

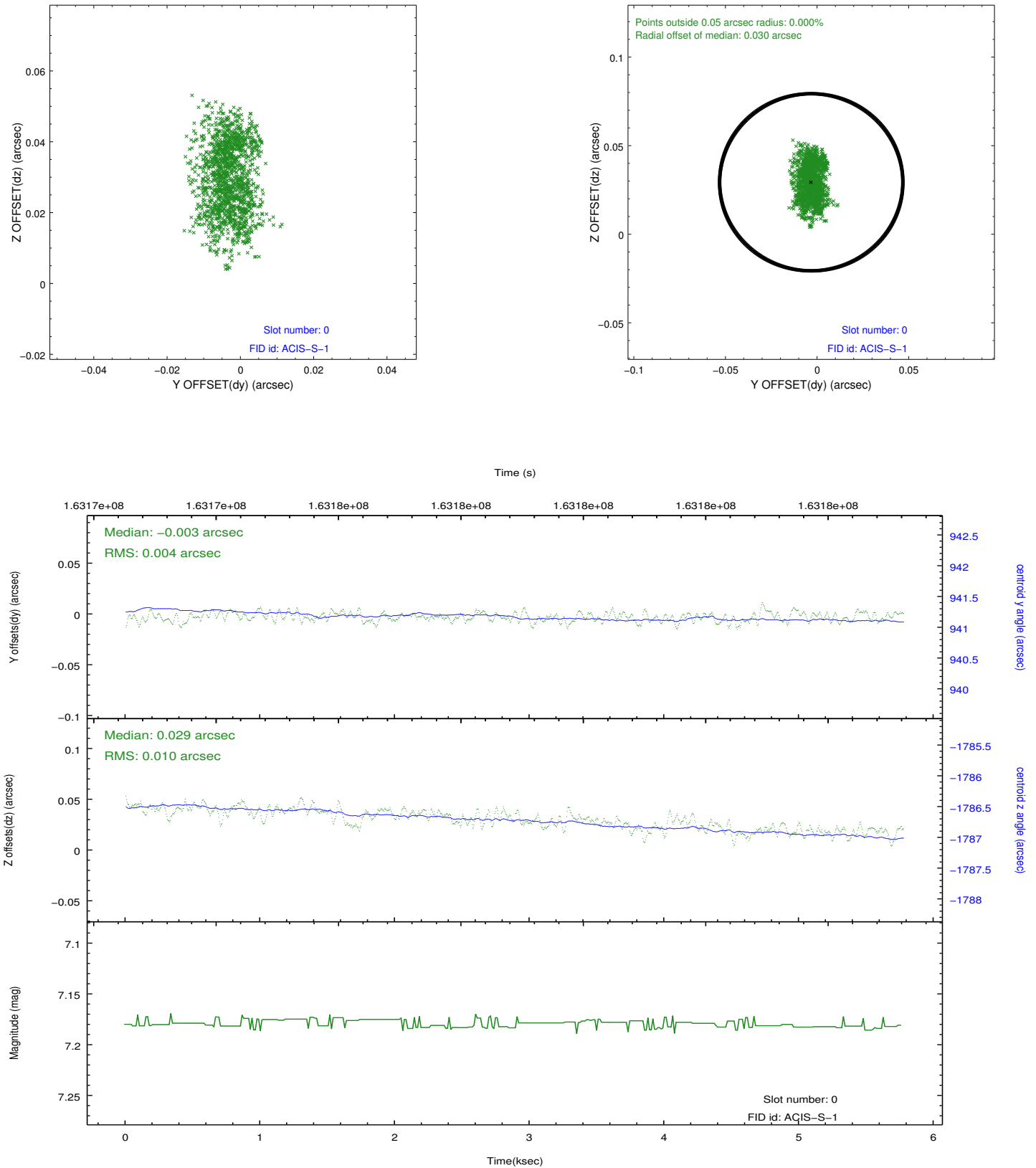


2.4.5 Slot 7

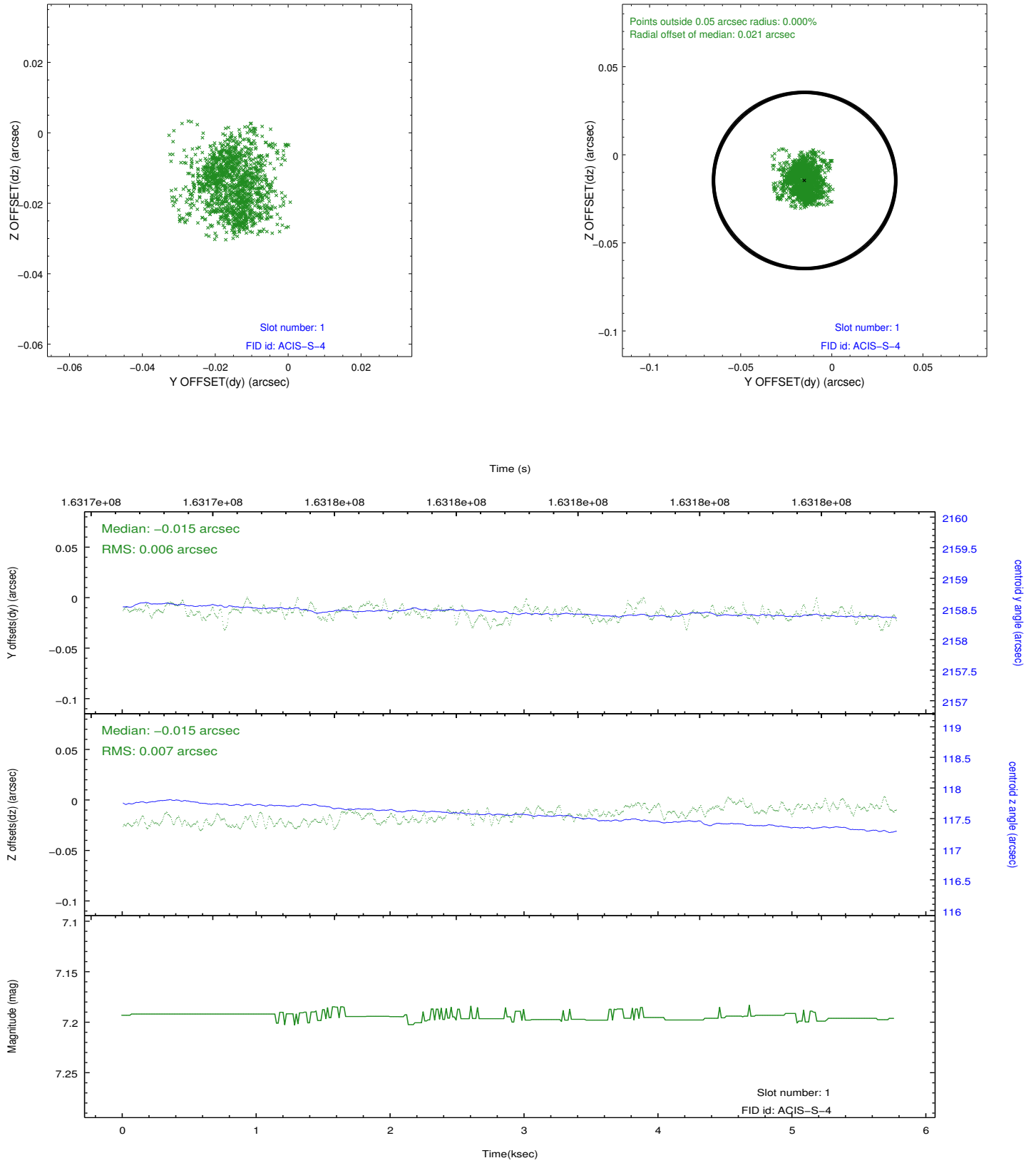


2.5 FID Slots

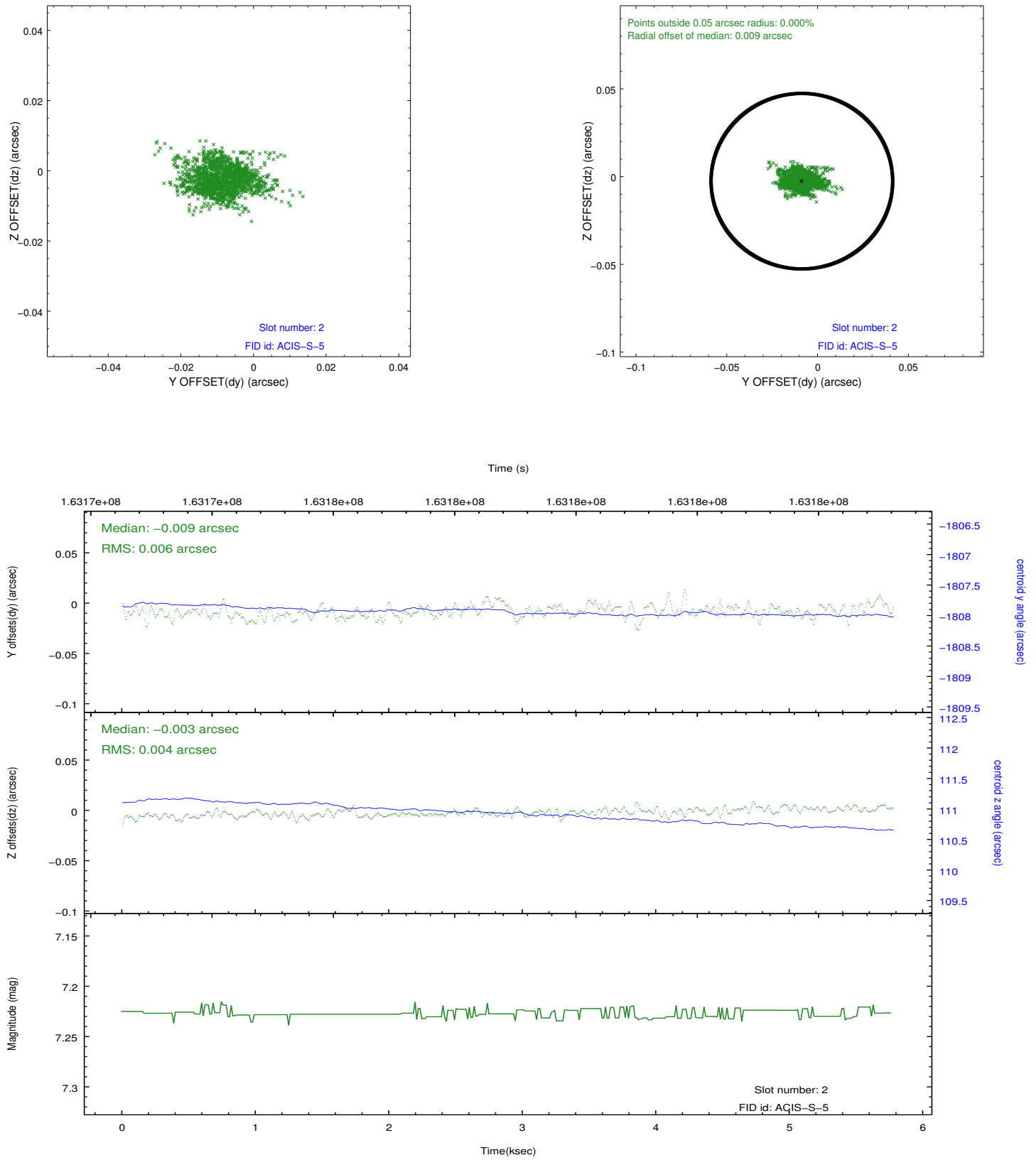
2.5.1 Slot 0



2.5.2 Slot 1

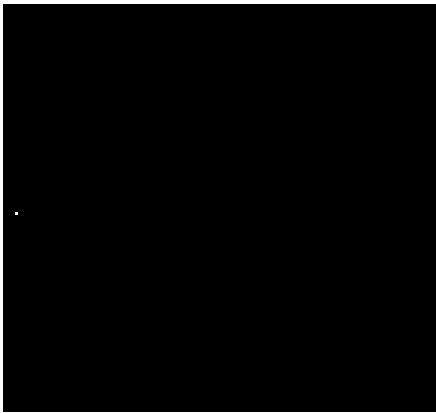


2.5.3 Slot 2

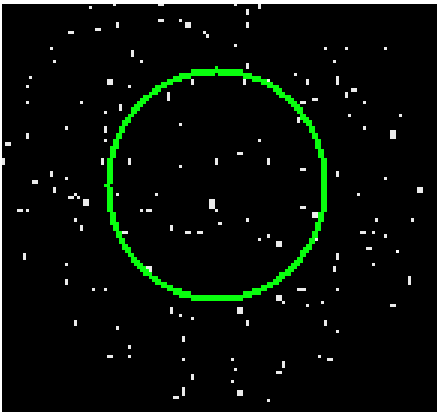


3 Gratings

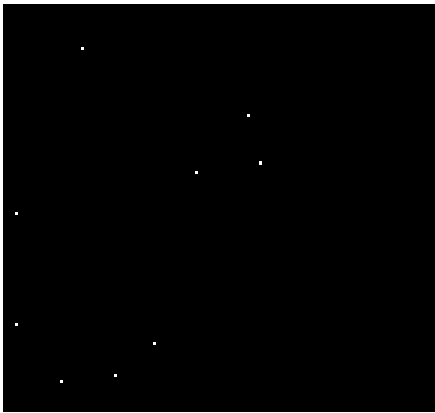
3.1 HEG Arm



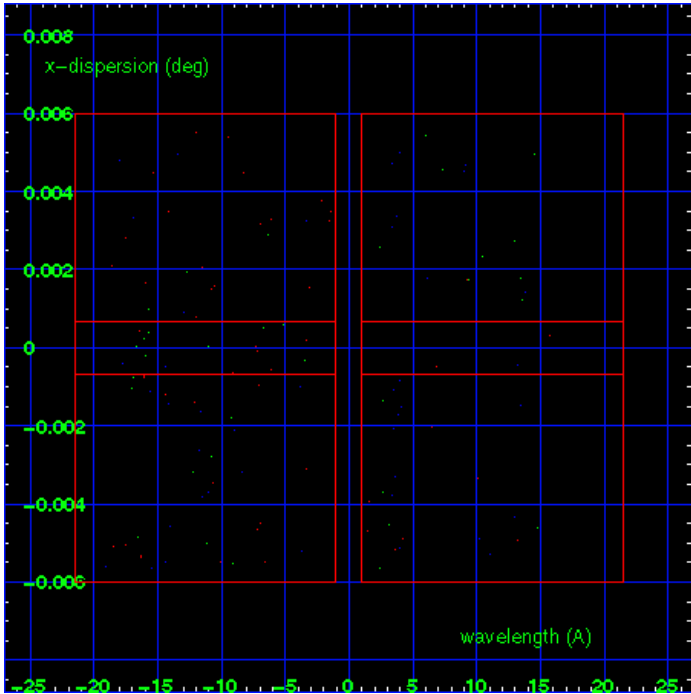
HEG Order Sort 123



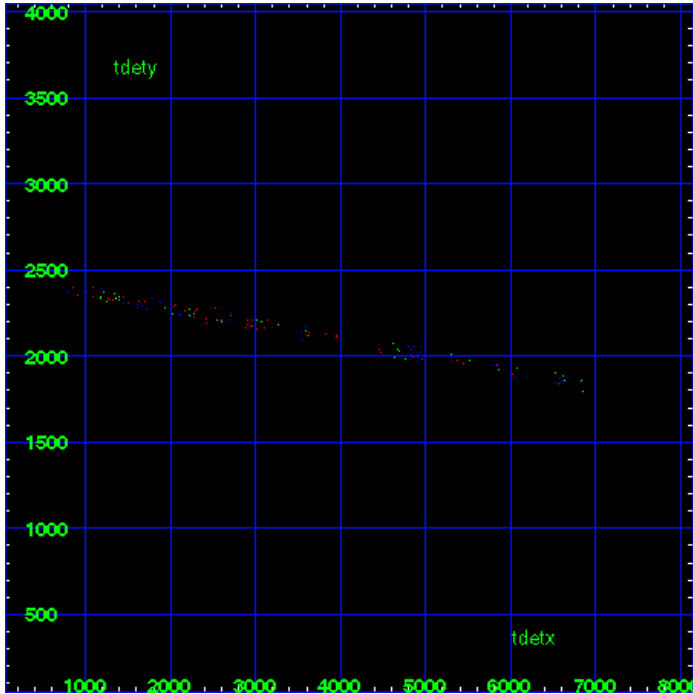
HEG Zero Order



HEG Order Sort ALL

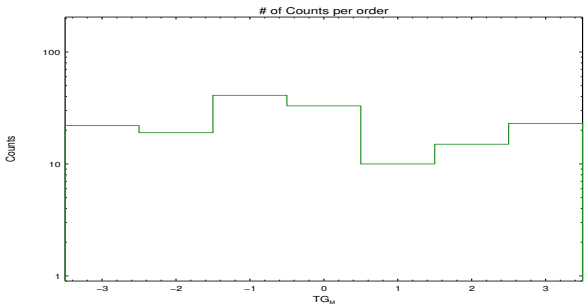


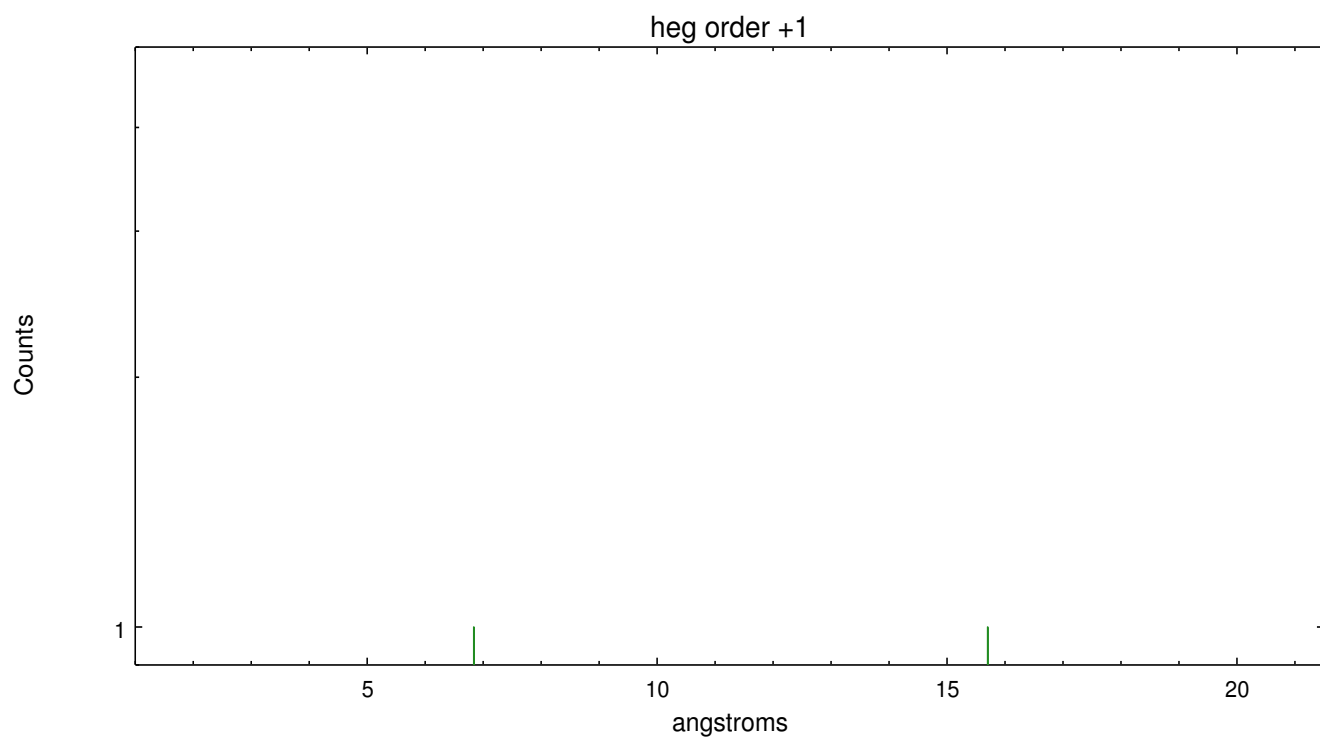
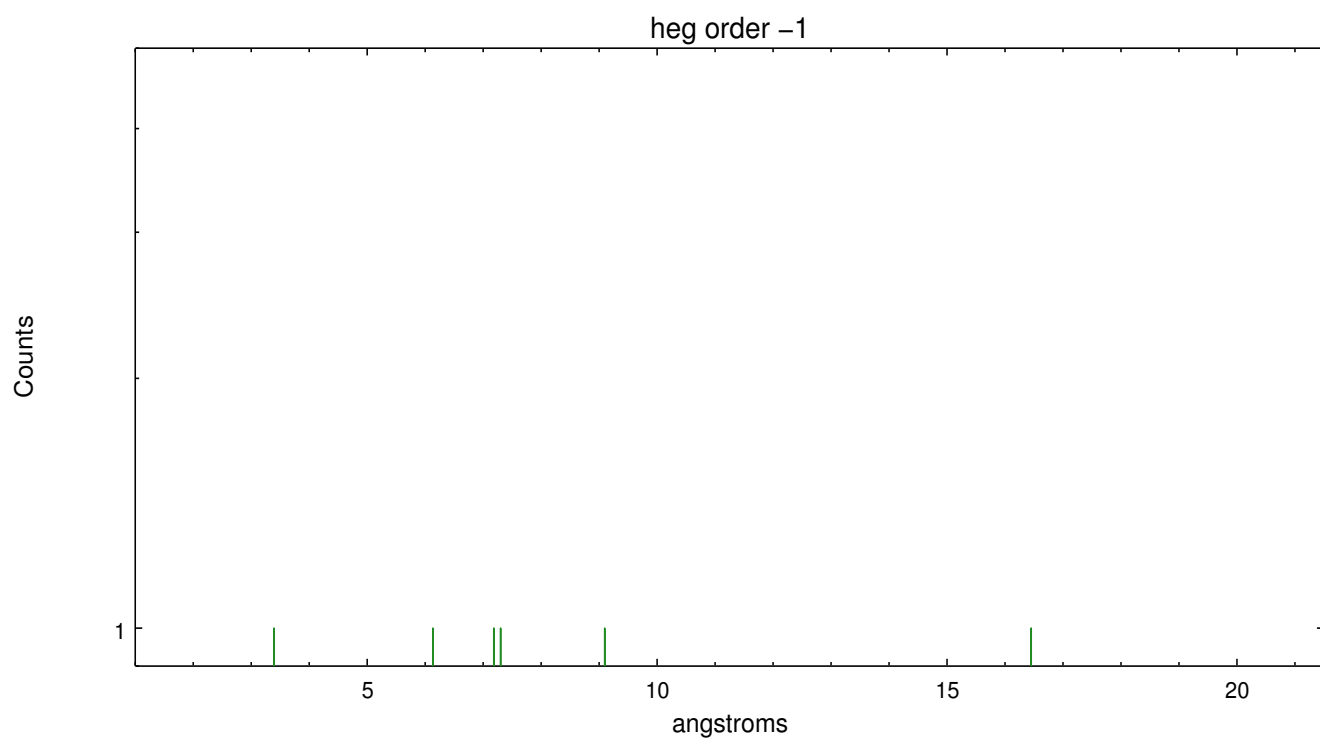
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	22	19	41	33	10	15	23

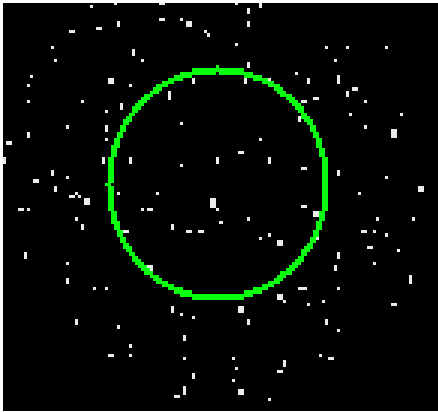




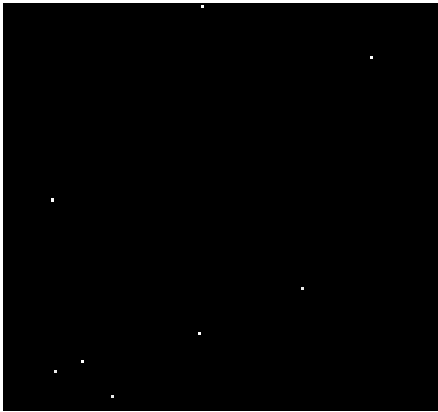
3.2 MEG Arm



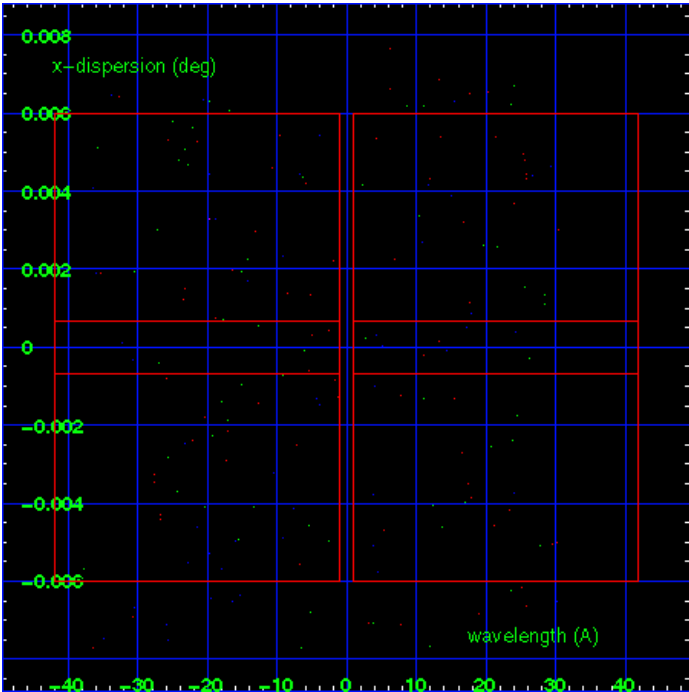
MEG Order Sort 123



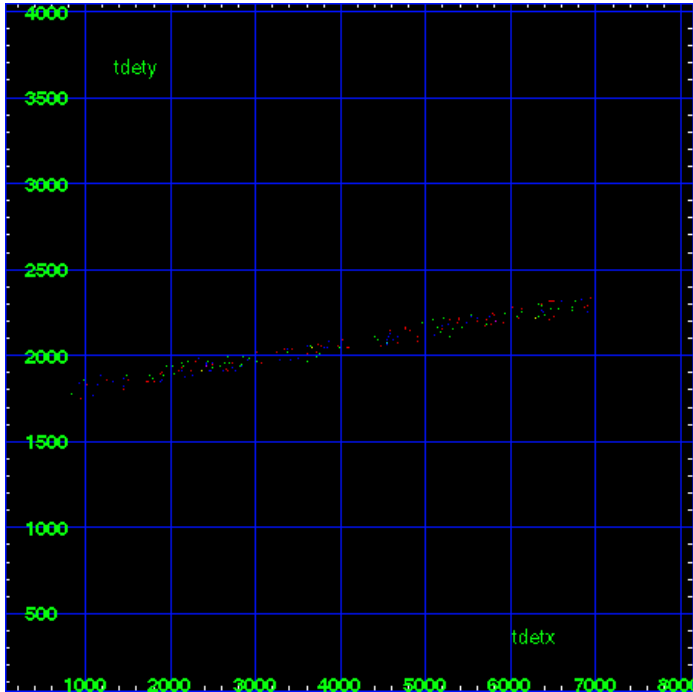
MEG Zero Order



MEG Order Sort ALL

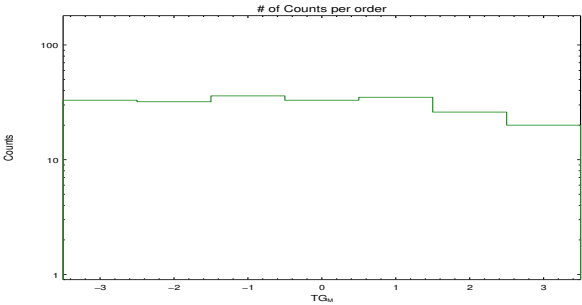


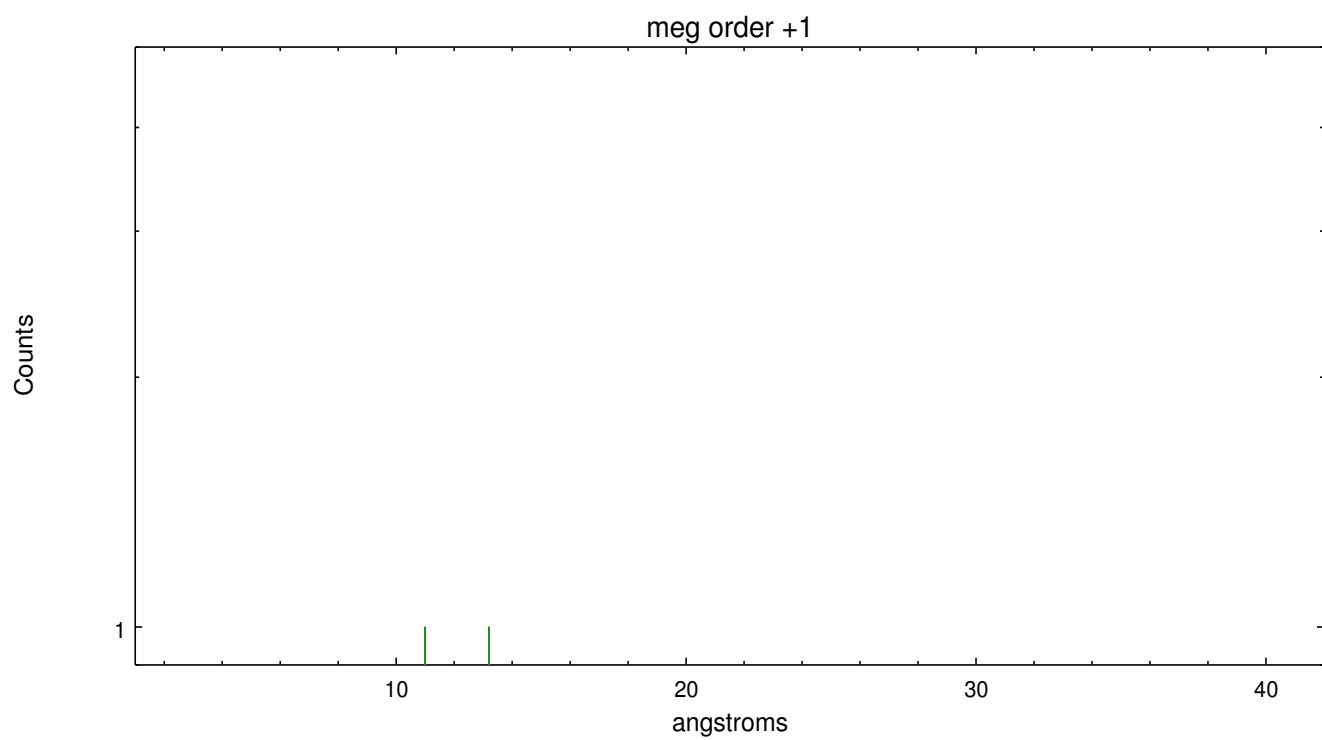
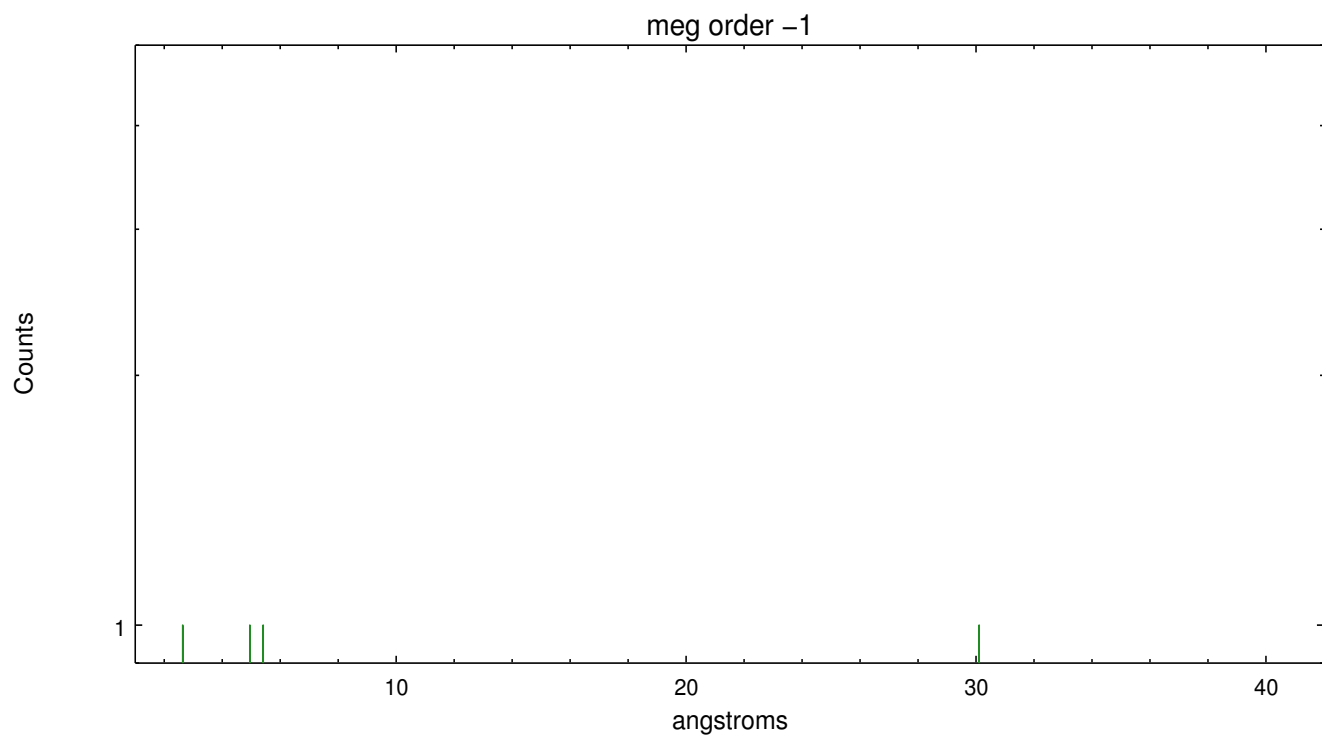
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	33	32	36	33	35	26	20





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.11.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.956

A.2 Comments

Standard software processing technique using the tool tgdetect failed to determine an accurate position for the zeroth order for this observation. No source was found. The processing software defaulted to the coordinates supplied by the user for the position of the zeroth order for the grating spectral extraction.