

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7365 - L2 Version 2
Chandra X-Ray Center

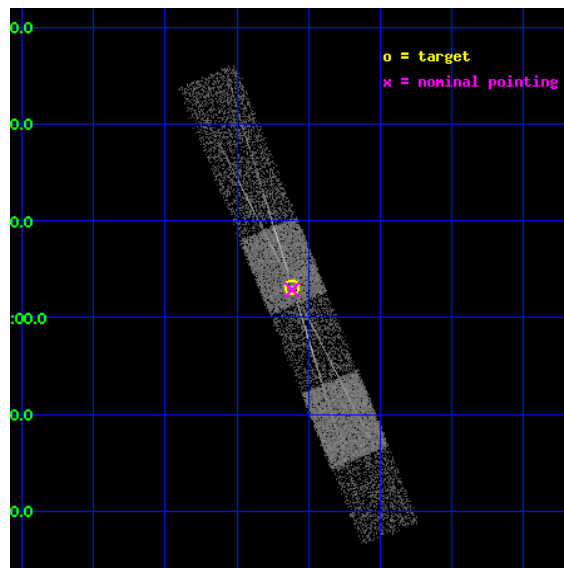
L2 Processing Date : Apr 27 2012

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1 Front

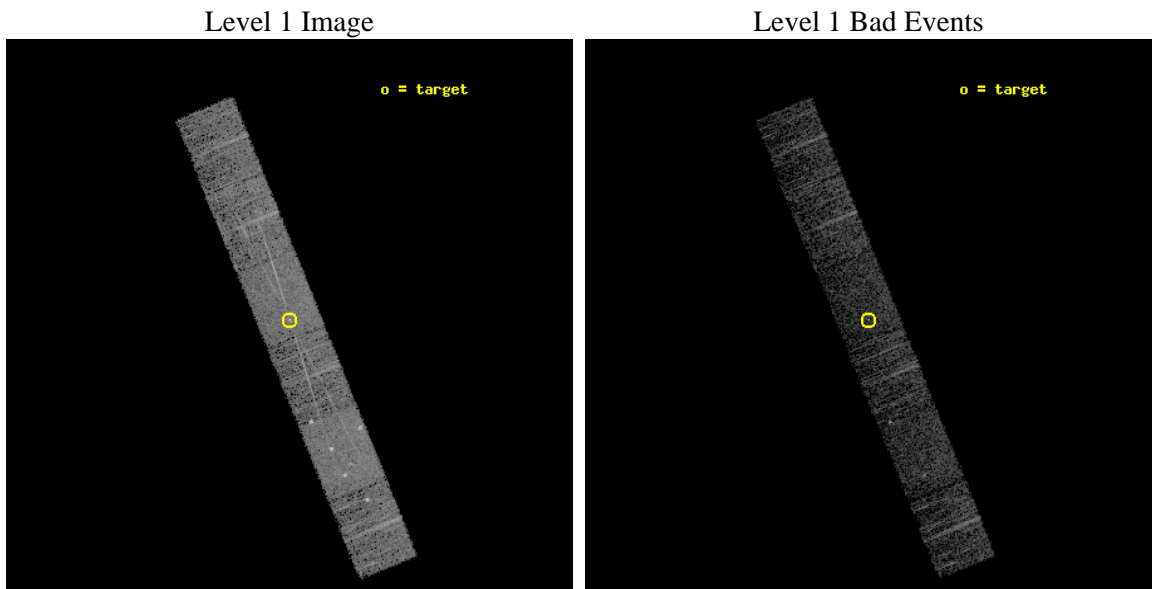
seq_num	701351	Sequence number
obs_id	7365	Observation id
title	Coordinated Spitzer/Chandra Observations of Gamma Ray Blazars	Prop
observer	Dr. Ann Wehrle	Principal investigator
object	3C273	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.277917	Observer's specified target RA [deg]
dec_targ	2.052361	Observer's specified target Dec [deg]
ra_nom	187.27883697426	Nominal RA [deg]
dec_nom	2.0476402258503	Nominal Dec [deg]
roll_nom	247.88404917674	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2150.0	Sum of GTIs [s]
livetime	2115.275635173	Livetime [s]
ontime4	2150.0	Sum of GTIs [s]
ontime5	2150.0	Sum of GTIs [s]
ontime6	2150.0	Sum of GTIs [s]
ontime7	2150.0	Sum of GTIs [s]
ontime8	2150.0	Sum of GTIs [s]
ontime9	2150.0	Sum of GTIs [s]
l2events	31810	Number of level 2 events



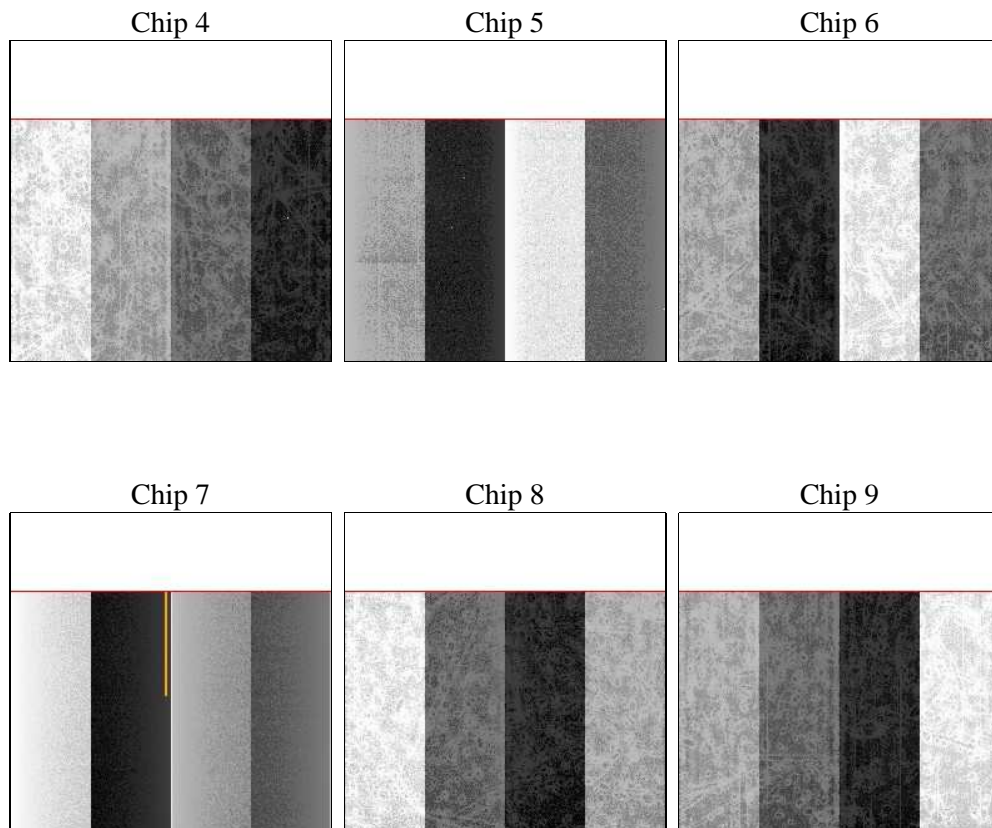
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2150.0	Sum of GTIs [s]
caldsver	4.4.9	 	ontime4	2150.0	Sum of GTIs [s]
date	2012-04-28T00:06:22	Date and time of file creation	ontime5	2150.0	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	2150.0	Sum of GTIs [s]
			ontime7	2150.0	Sum of GTIs [s]
			ontime8	2150.0	Sum of GTIs [s]
			ontime9	2150.0	Sum of GTIs [s]
			l1events	130235	Number of level 1 events

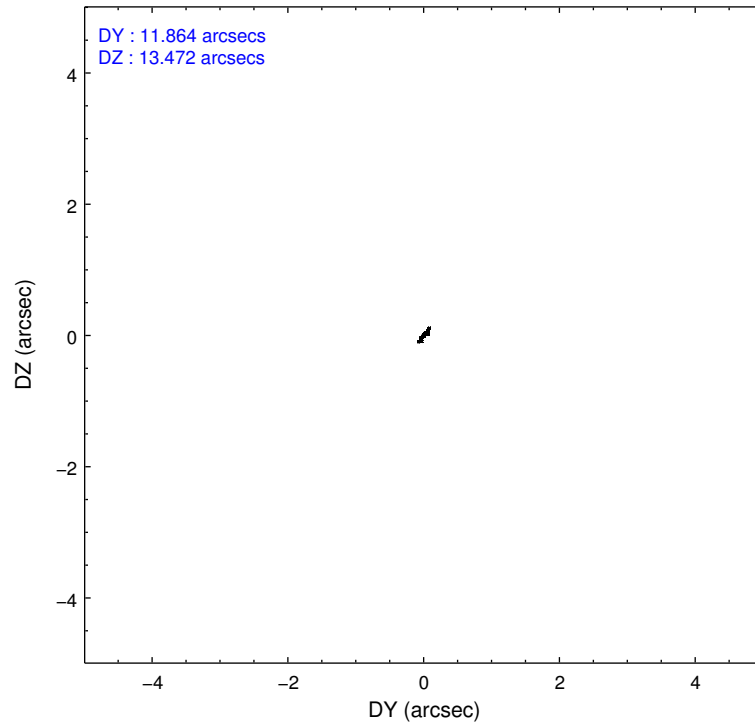
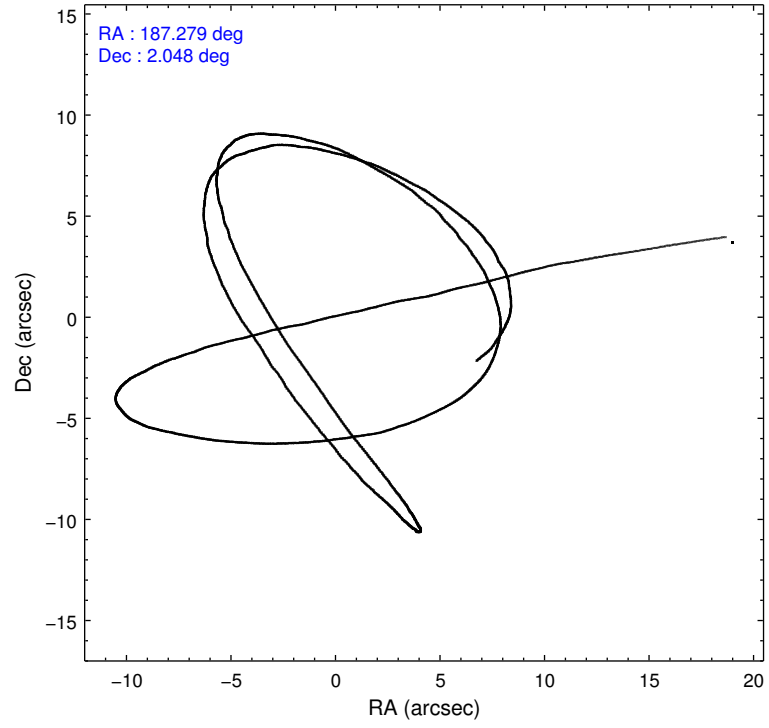
2.1.4 Events

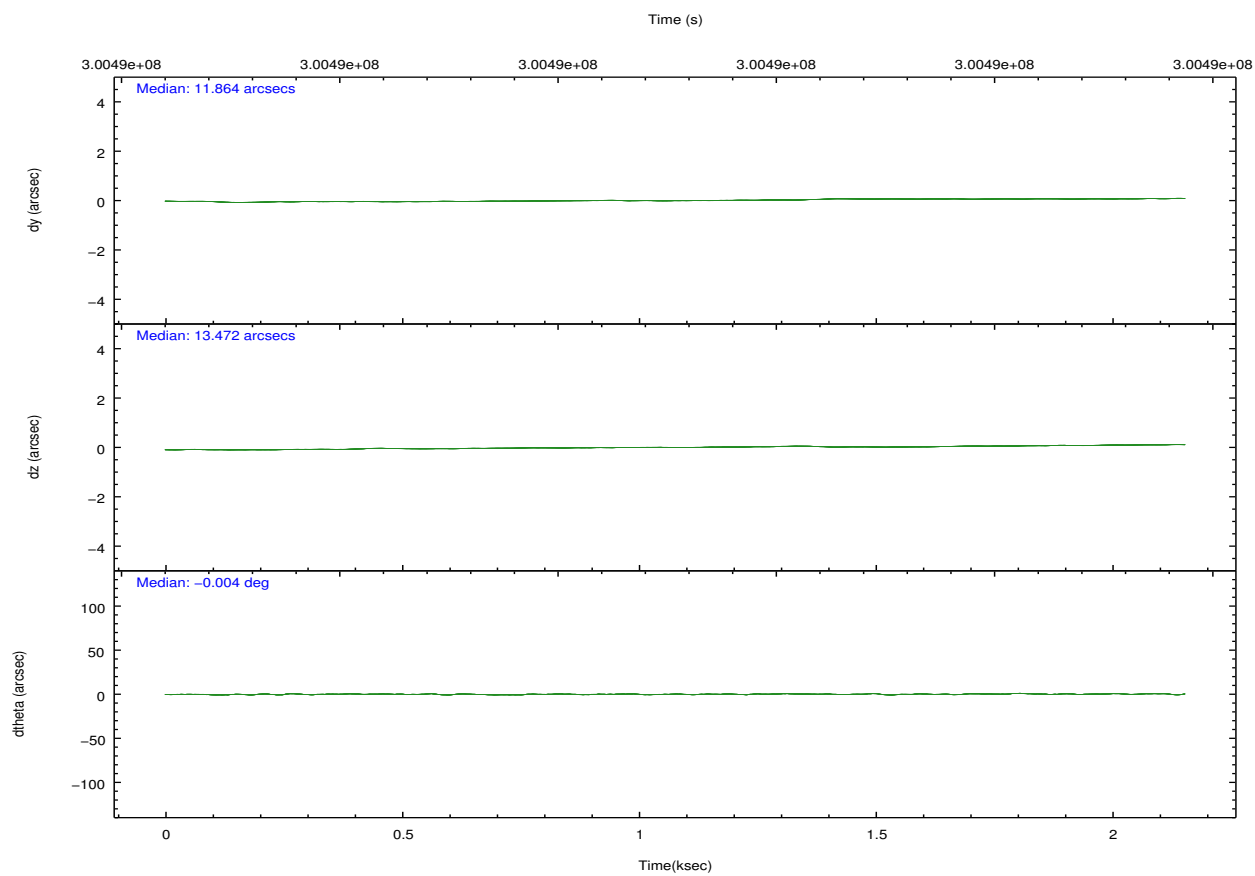
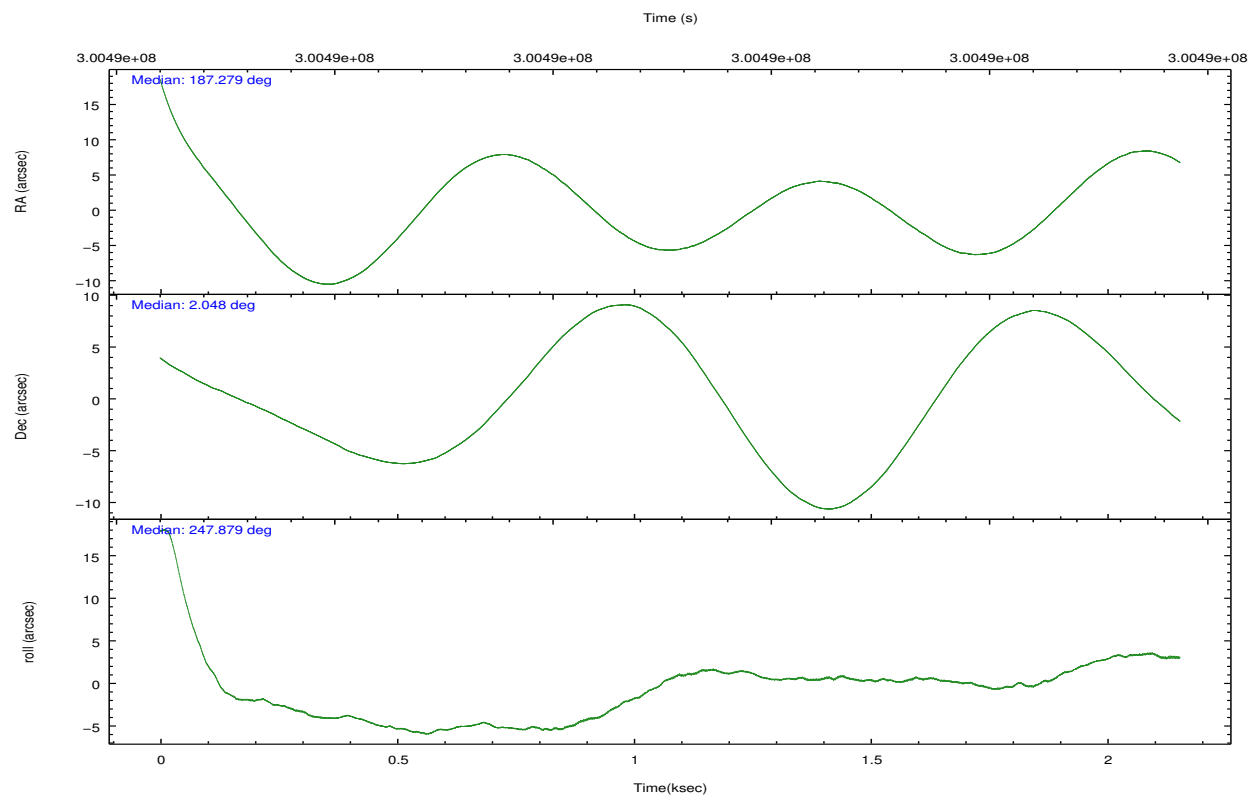
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	19371	27611	19239	25118	22082	16814	grade 0 events	1626	2499	2140	1305	2118	984
rejected events	16616	14144	15471	13704	16653	14658		8%	9%	11%	5%	9%	5%
rejected %	85%	51%	80%	54%	75%	87%	grade 1 events	21	134	13	39	12	11
								0%	0%	0%	0%	0%	0%
							grade 2 events	434	3902	682	2426	1117	386
								2%	14%	3%	9%	5%	2%
							grade 3 events	210	521	265	1046	503	206
								1%	1%	1%	4%	2%	1%
							grade 4 events	213	515	277	1044	474	214
								1%	1%	1%	4%	2%	1%
							grade 5 events	710	1788	757	2049	956	755
								3%	6%	3%	8%	4%	4%
							grade 6 events	311	6202	460	5743	1281	397
								1%	22%	2%	22%	5%	2%
							grade 7 events	15846	12050	14645	11466	15621	13861
								81%	43%	76%	45%	70%	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	187.274602	187.2788369742649	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	2.074615	2.047640225850263	Subarray start row	1	1
[deg] Pointing Roll	247.727519	247.8840491767399	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)	300489849.184000	300488732.94068			
Observation start date	2007-07-10T21:23:04	2007-07-10T21:05:32			
[s] Observation end time (MET)	300491849.184000	300492702.76587			
Observation end date	2007-07-10T21:56:24	2007-07-10T22:11:42			
Read mode	TIMED	TIMED			

2.3 Aspect



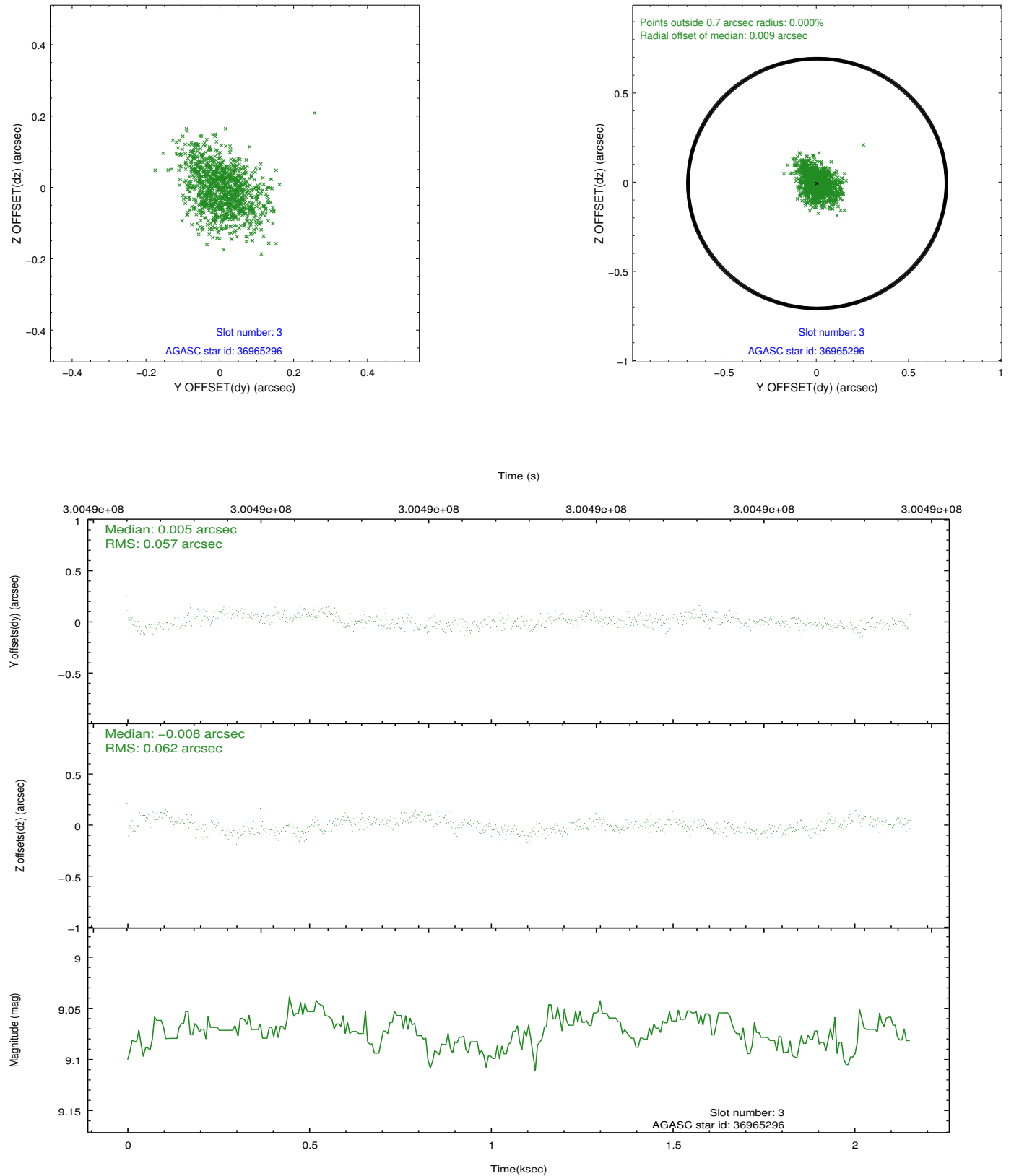


Slot Statistics

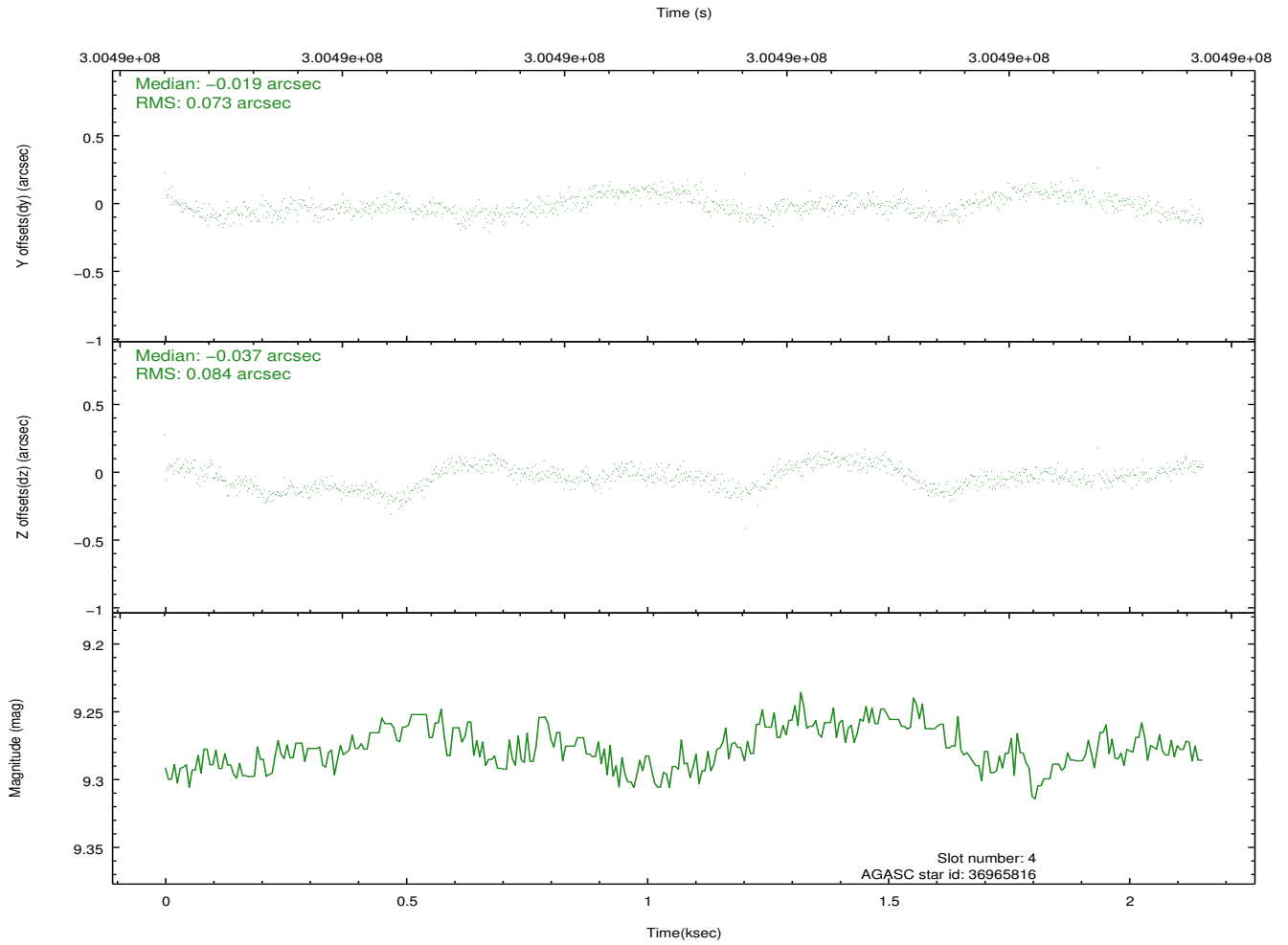
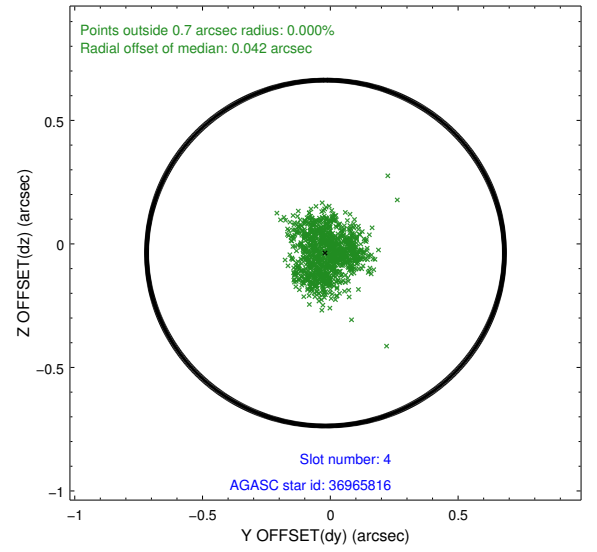
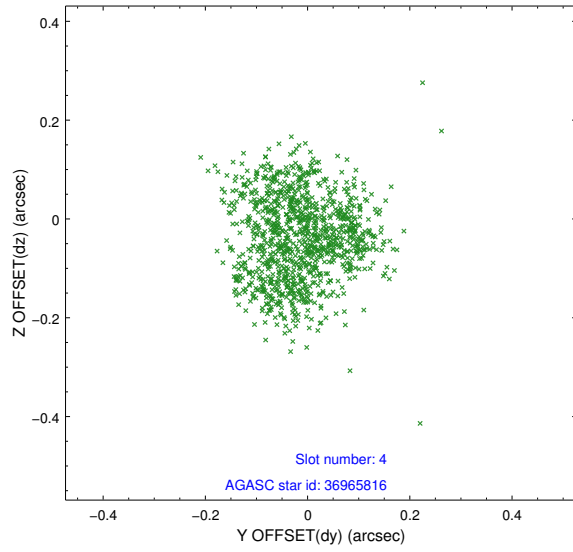
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	526	-0.109	-0.070	0.007	0.010	0.000000	0.000000	-764.66	-1796.97
1	FID	ACIS-S-4	7.18	526	0.198	0.072	0.005	0.010	0.000000	0.000000	2147.54	108.41
2	FID	ACIS-S-5	7.22	526	-0.120	0.007	0.006	0.010	0.000000	0.000000	-1813.63	105.45
3	GUIDE	36965296	9.07	1051	0.005	-0.008	0.088	0.146	186.926292	1.837429	1265.77	-836.58
4	GUIDE	36965816	9.28	1045	-0.019	-0.037	0.122	0.176	186.823353	1.771455	1627.07	-1090.00
5	GUIDE	36965896	9.71	1050	0.060	-0.047	0.132	0.209	187.153754	1.617178	1690.95	220.49
6	GUIDE	37356352	7.68	1052	-0.353	-0.145	0.080	0.128	187.433784	2.618460	-2026.87	-212.74
7	GUIDE	37883040	10.00	1050	0.289	0.254	0.140	0.231	187.575516	1.280402	2234.30	2085.93

2.4 Star Slots

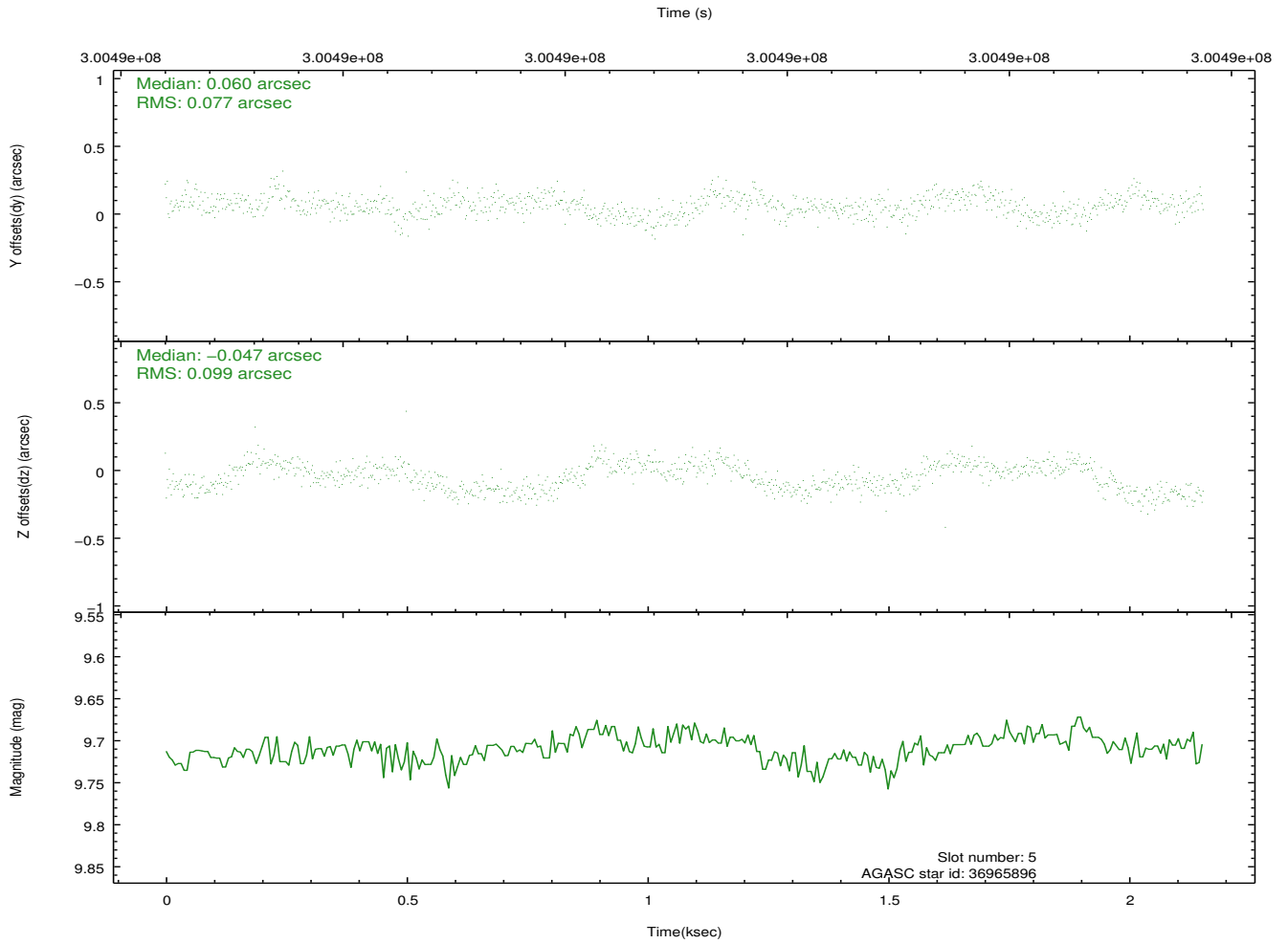
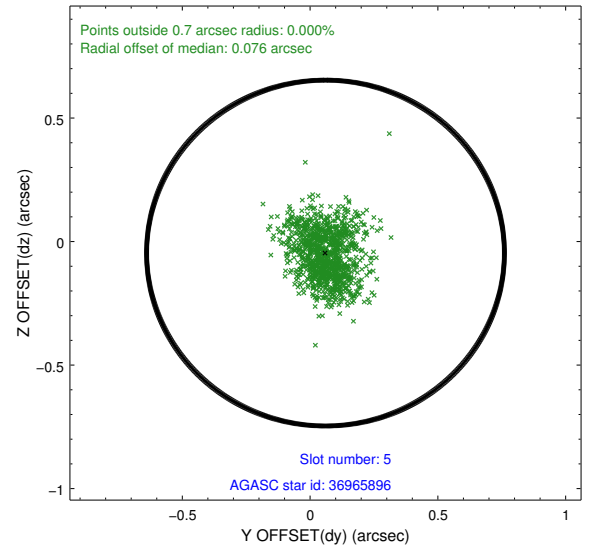
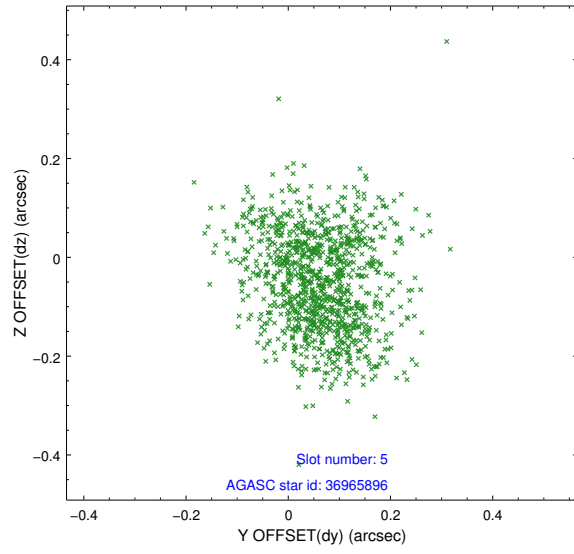
2.4.1 Slot 3



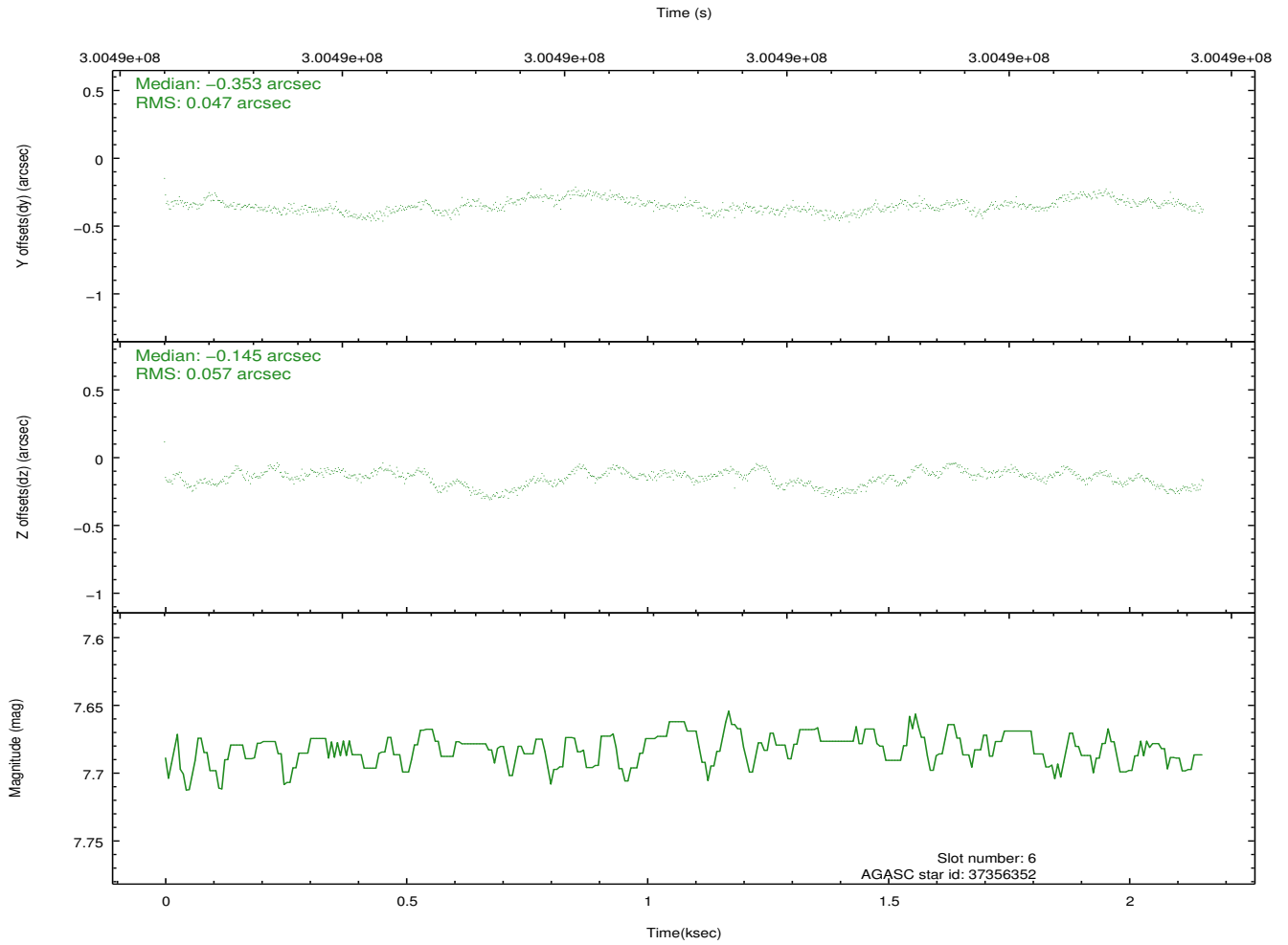
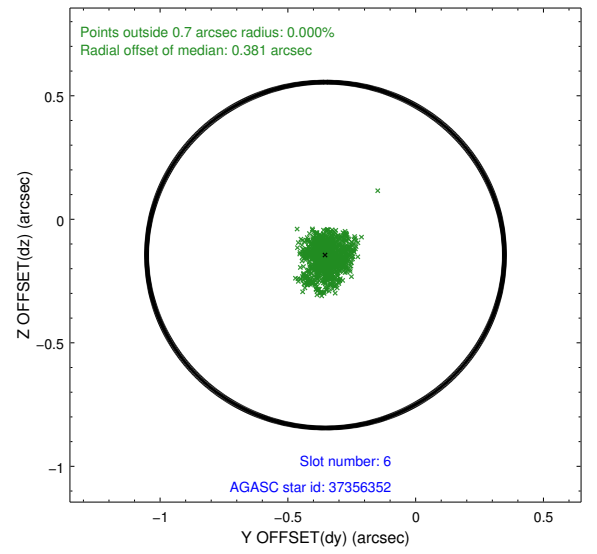
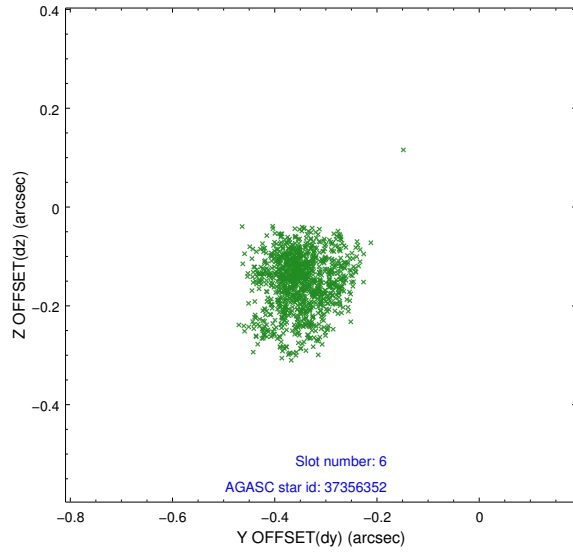
2.4.2 Slot 4



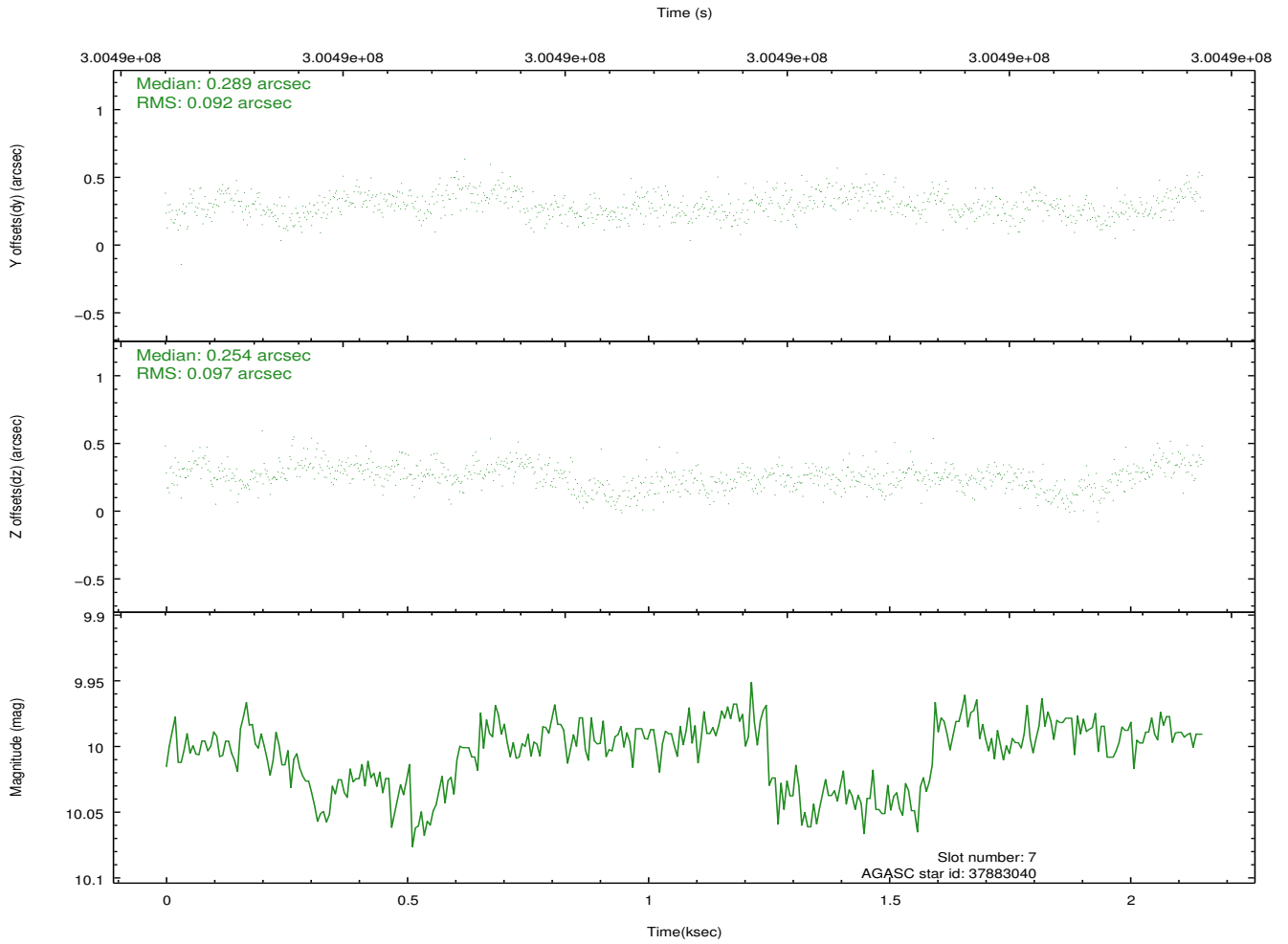
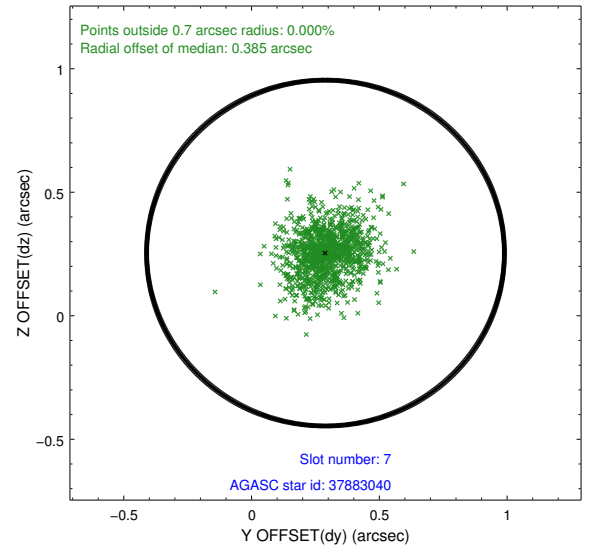
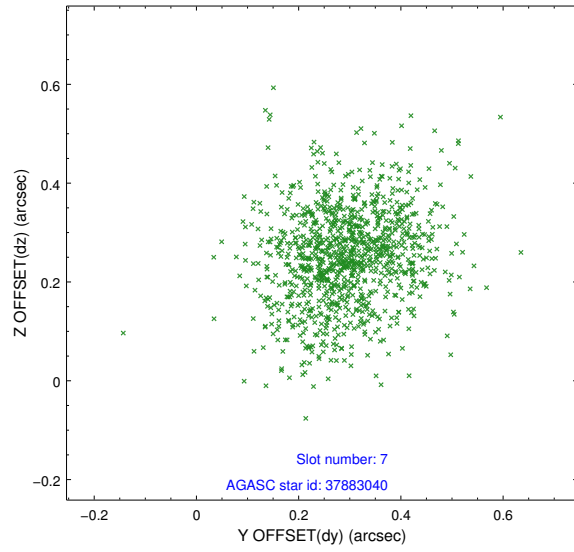
2.4.3 Slot 5



2.4.4 Slot 6

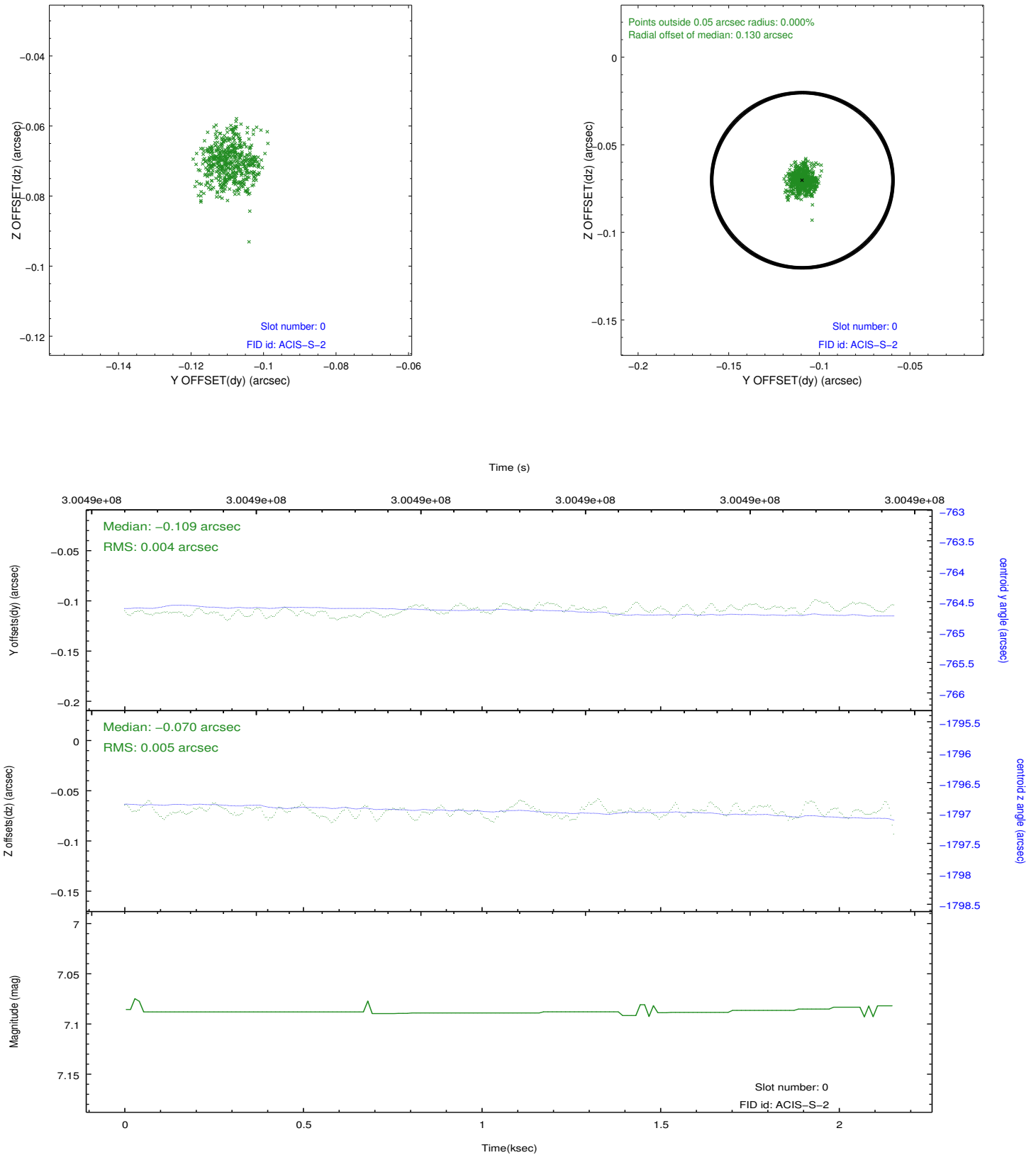


2.4.5 Slot 7

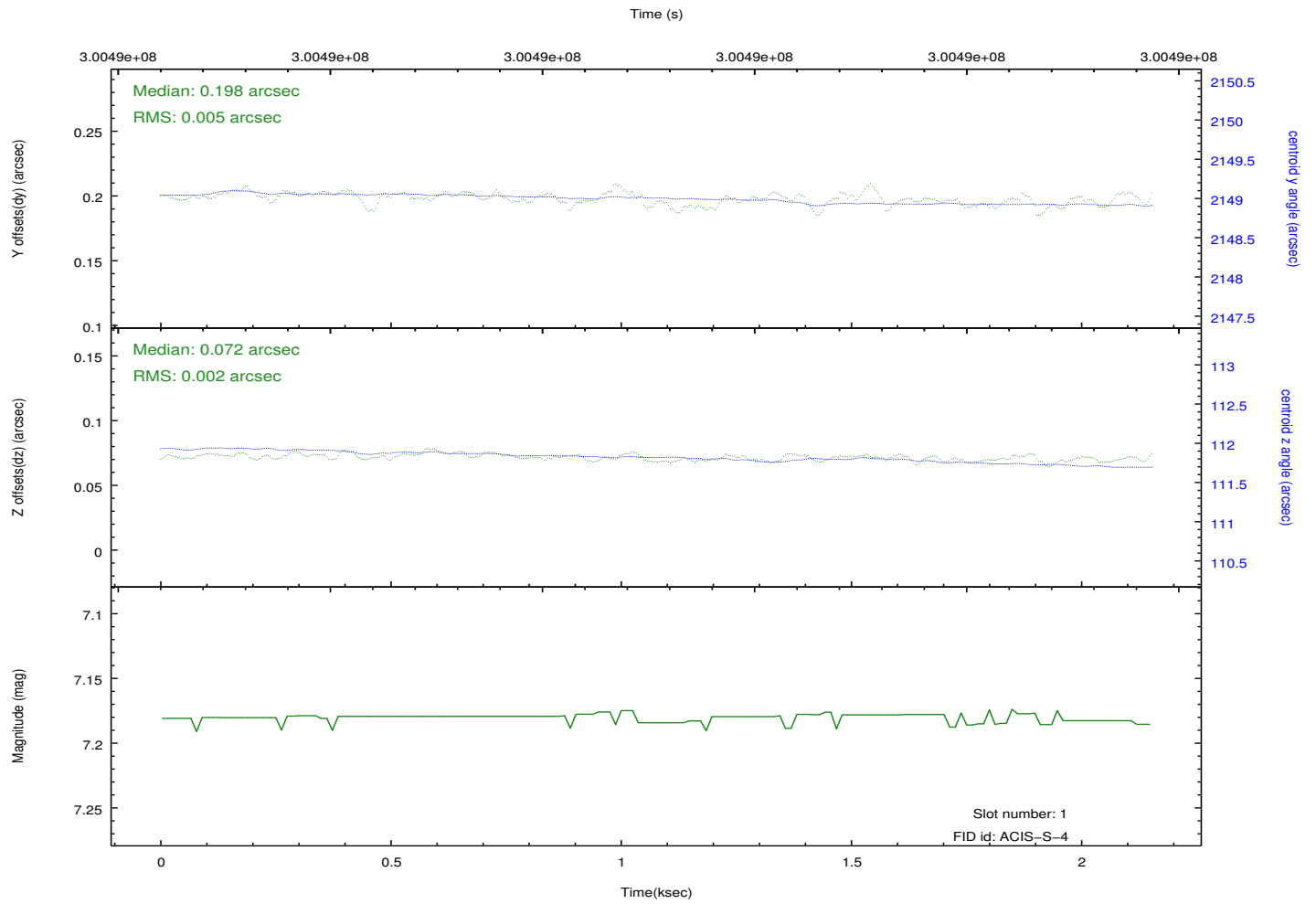
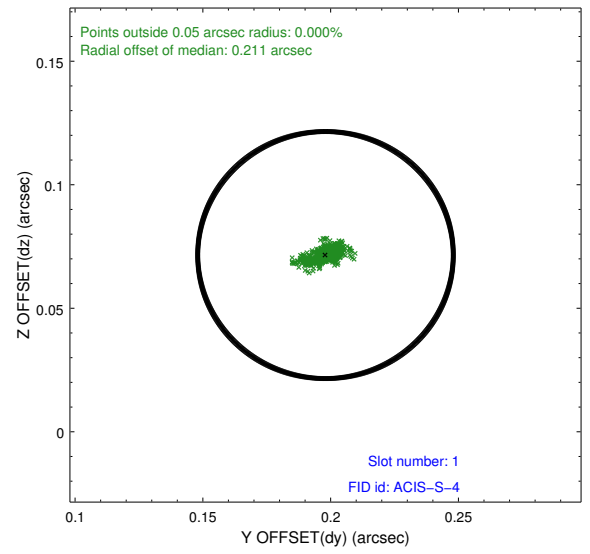
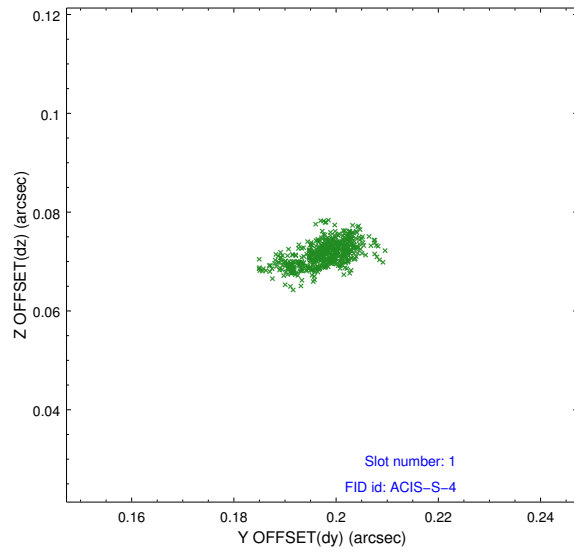


2.5 FID Slots

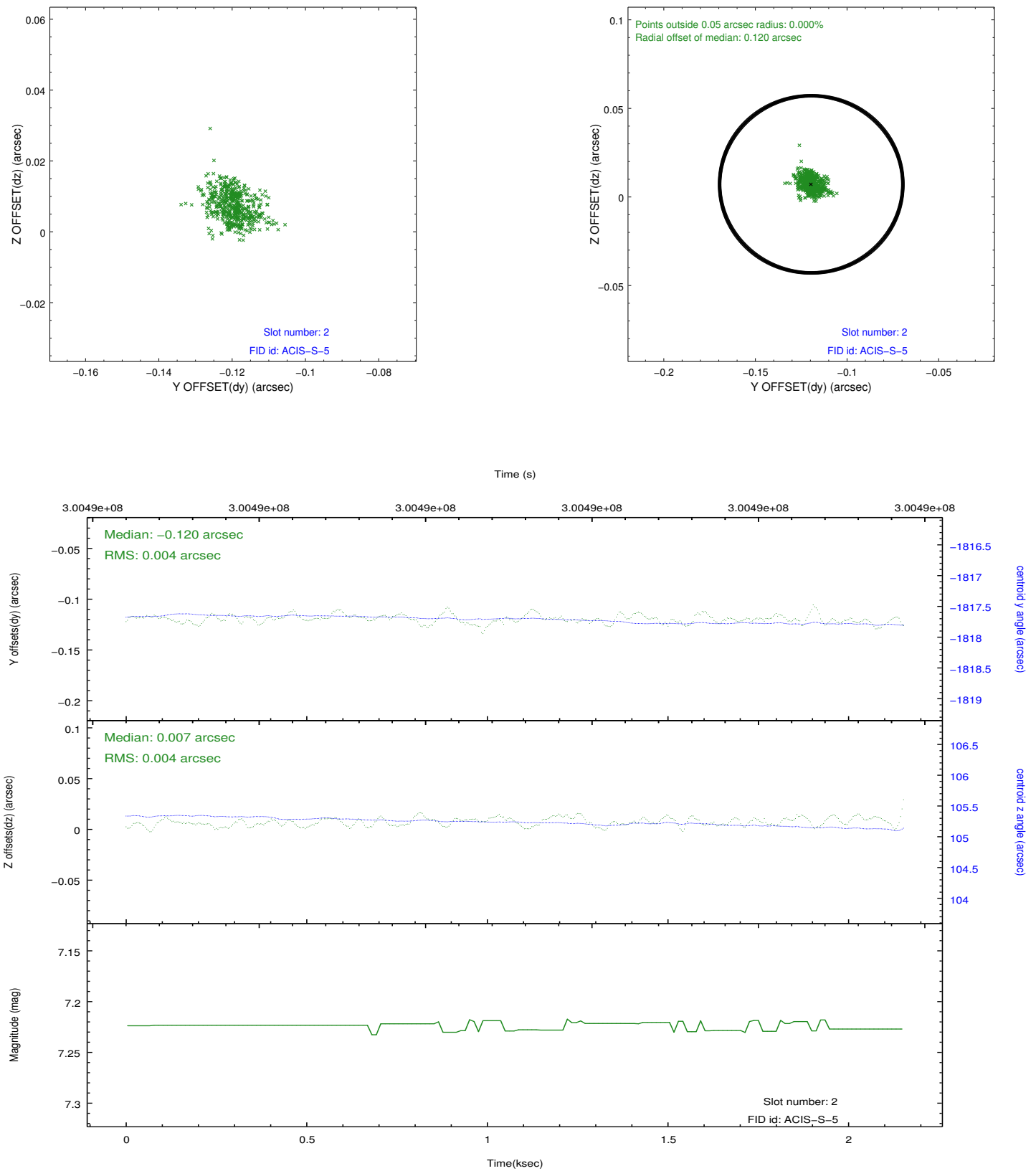
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

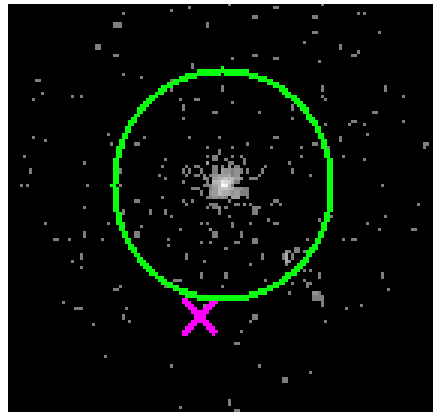


3 Gratings

3.1 HEG Arm



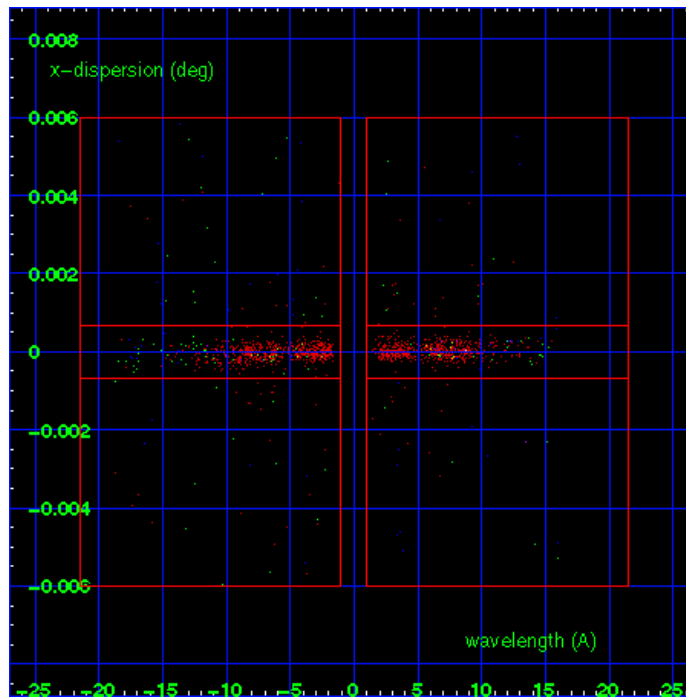
HEG Order Sort 123



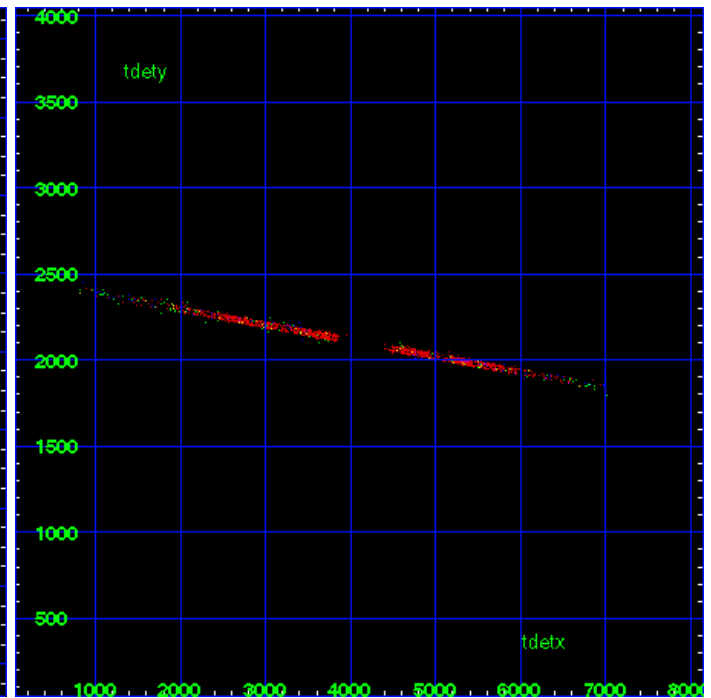
HEG Zero Order



HEG Order Sort ALL

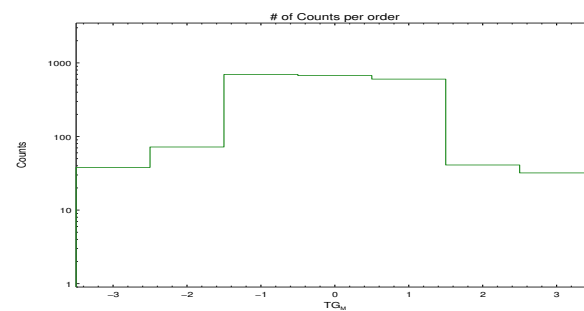


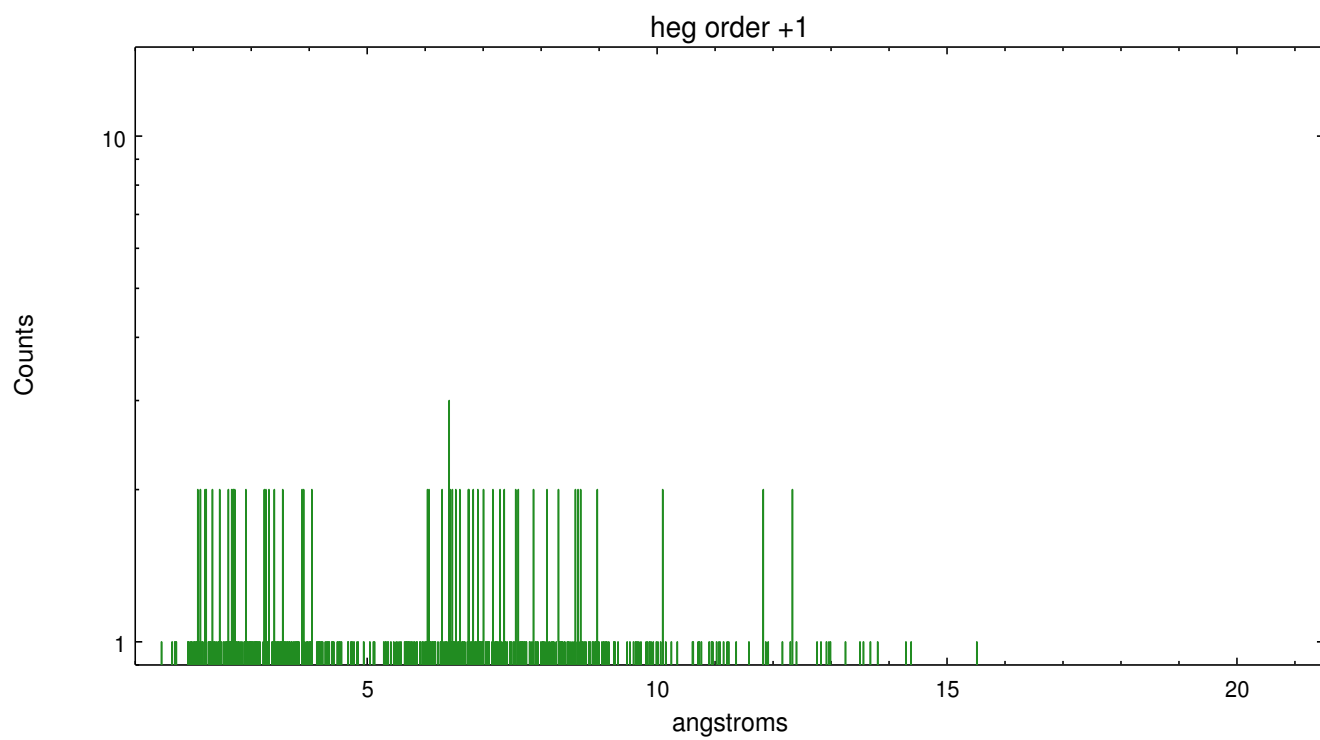
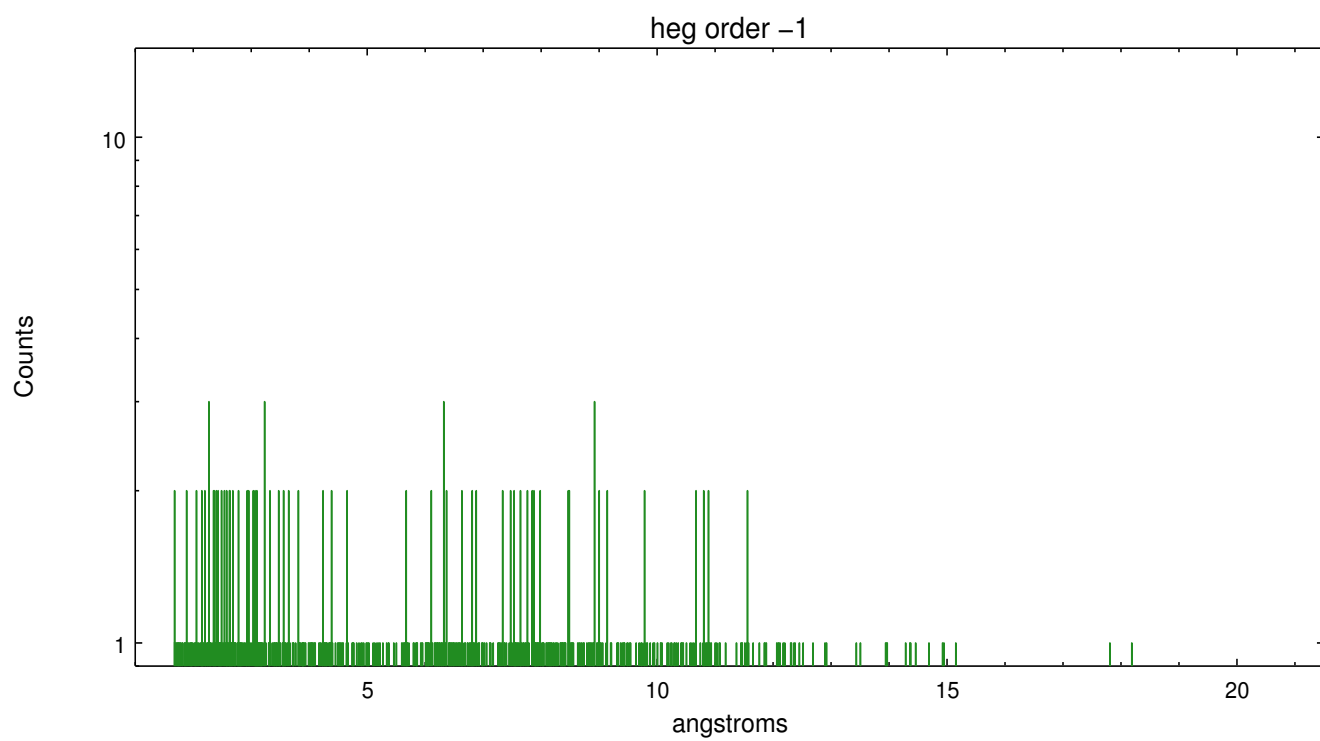
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	38	72	696	673	602	41	32

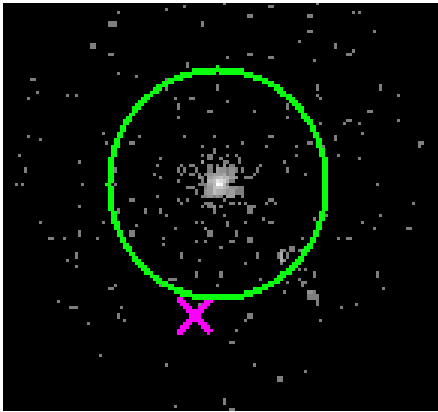




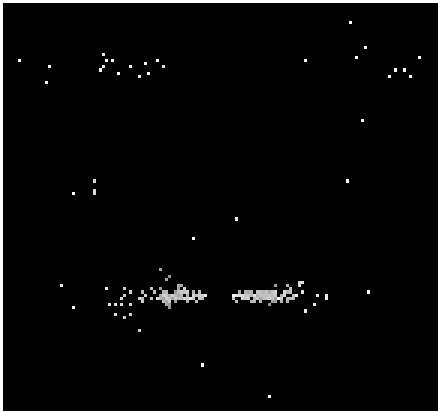
3.2 MEG Arm



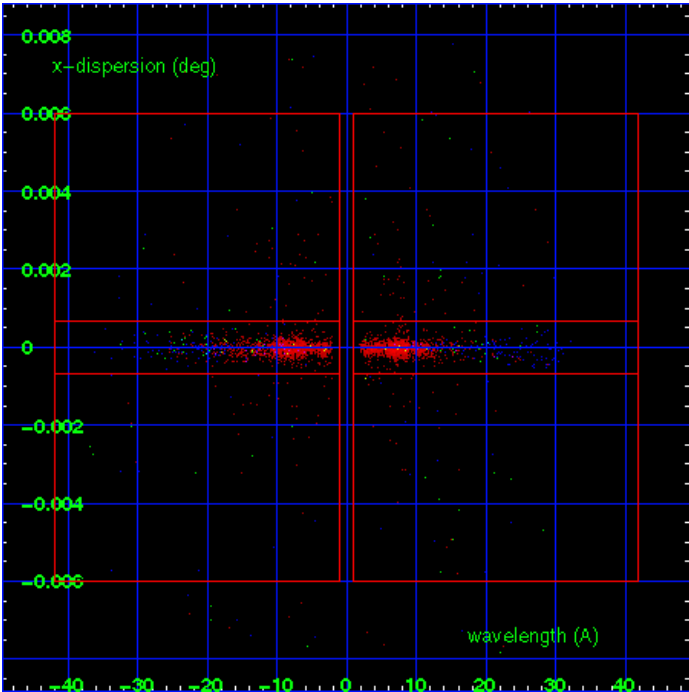
MEG Order Sort 123



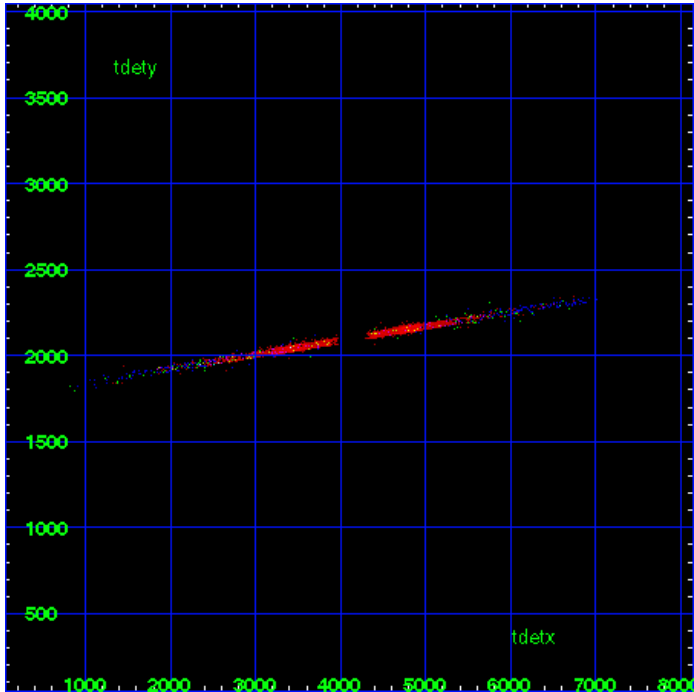
MEG Zero Order



MEG Order Sort ALL

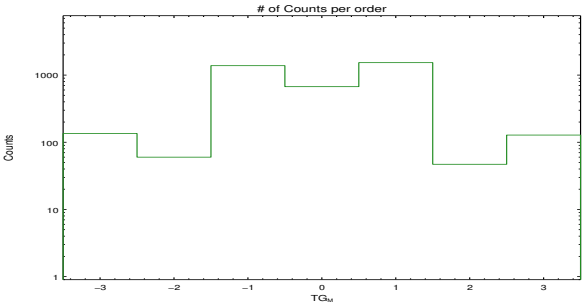


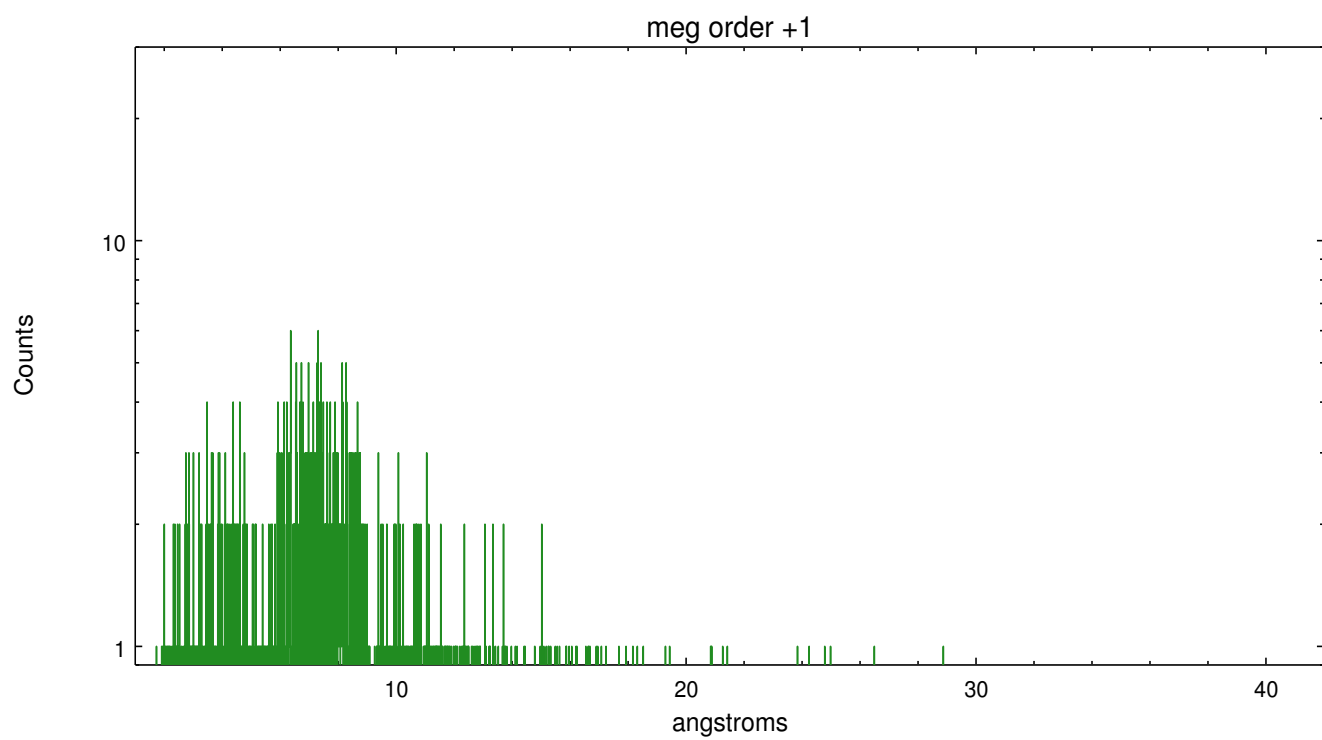
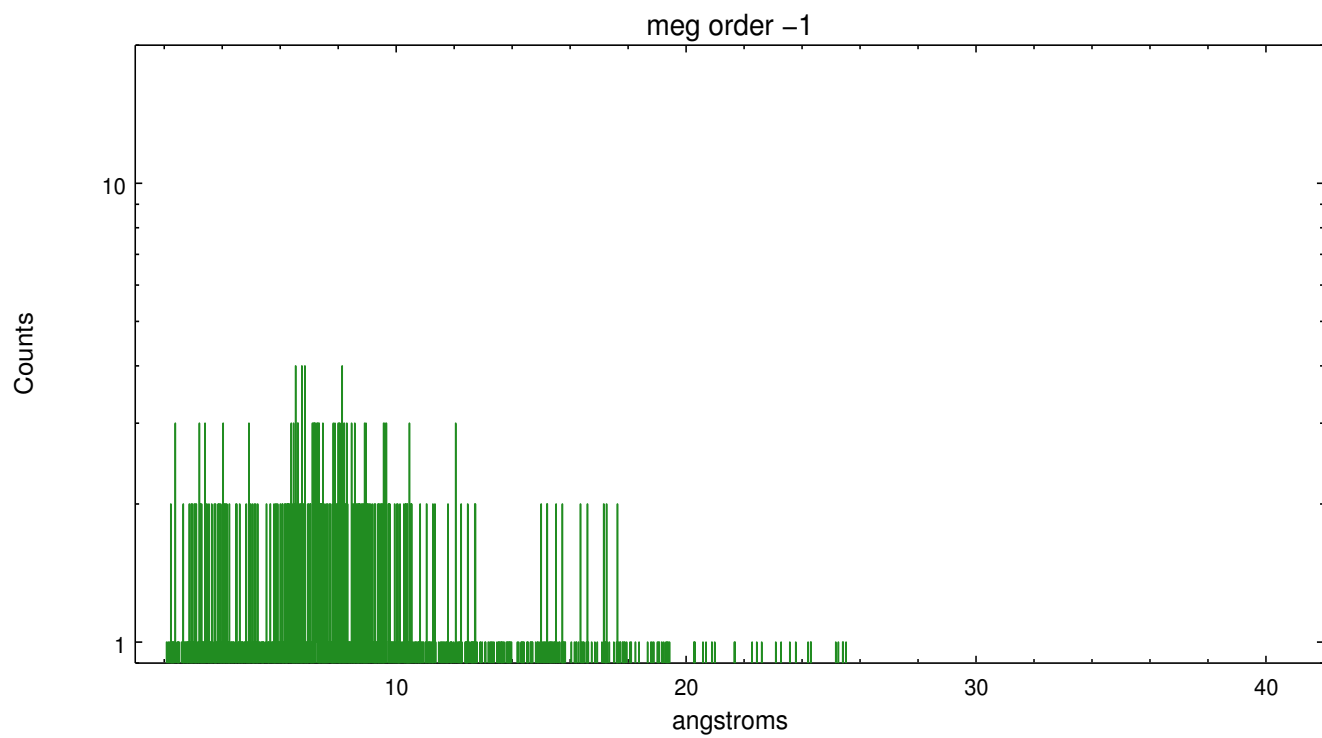
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	135	60	1382	673	1533	47	128





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.05.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.15

A.2 Comments