

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12066 - L2 Version 2
Chandra X-Ray Center

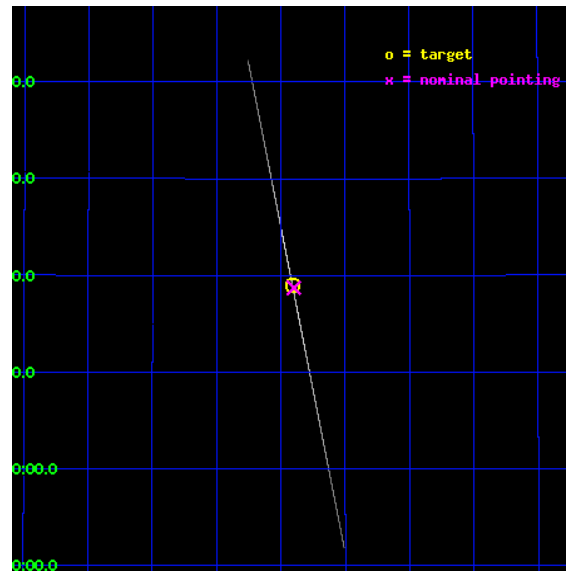
L2 Processing Date : Jun 18 2012

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1 Front

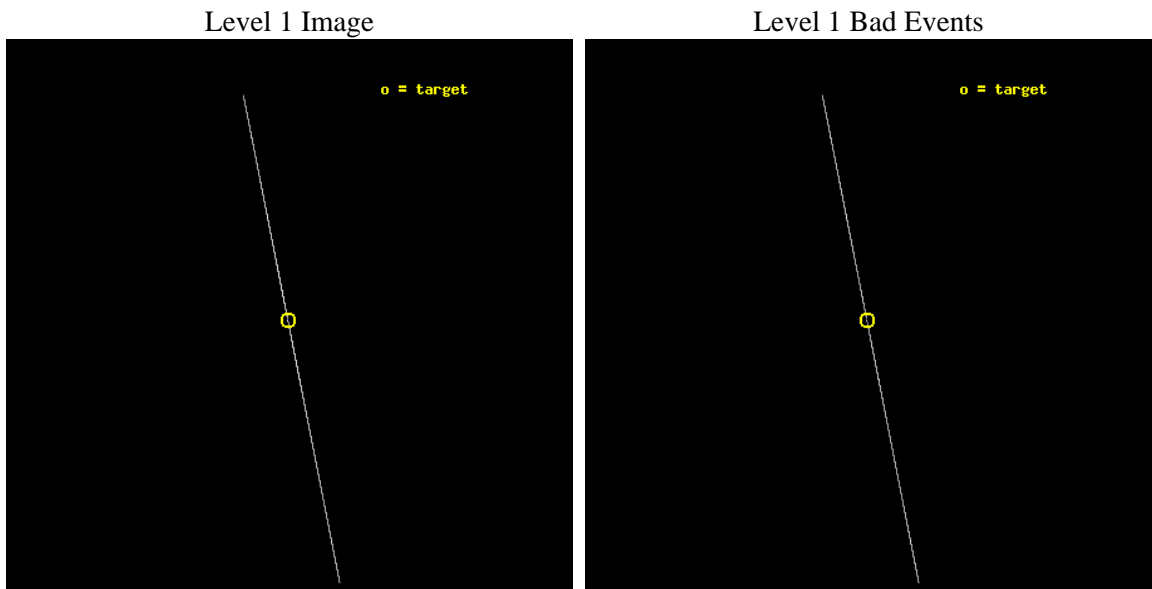
seq_num	401137	Sequence number
obs_id	12066	Observation id
title	Chandra High Resolution Spectroscopy of the Be X-Ray binary A0535+262	Proposal title
observer	Dr. Mark Reynolds	Principal investigator
object	1A0535+262	Source name
ra_targ	84.7275	Observer's specified target RA [deg]
dec_targ	26.315778	Observer's specified target Dec [deg]
ra_nom	84.724773250728	Nominal RA [deg]
dec_nom	26.312064661177	Nominal Dec [deg]
roll_nom	258.65784547019	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8917.25	Sum of GTIs [s]
livetime	8882.4169921875	Livetime [s]
ontime4	8917.25	Sum of GTIs [s]
ontime5	8917.25	Sum of GTIs [s]
ontime6	8917.25	Sum of GTIs [s]
ontime7	8917.25	Sum of GTIs [s]
ontime8	8917.25	Sum of GTIs [s]
ontime9	8917.25	Sum of GTIs [s]
l2events	763388	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	8800.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8917.25	Sum of GTIs [s]
caldsver	4.4.10	 	ontime4	8917.25	Sum of GTIs [s]
date	2012-06-18T19:43:06	Date and time of file creation	ontime5	8917.25	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8917.25	Sum of GTIs [s]
			ontime7	8917.25	Sum of GTIs [s]
			ontime8	8917.25	Sum of GTIs [s]
			ontime9	8917.25	Sum of GTIs [s]
			l1events	1466561	Number of level 1 events

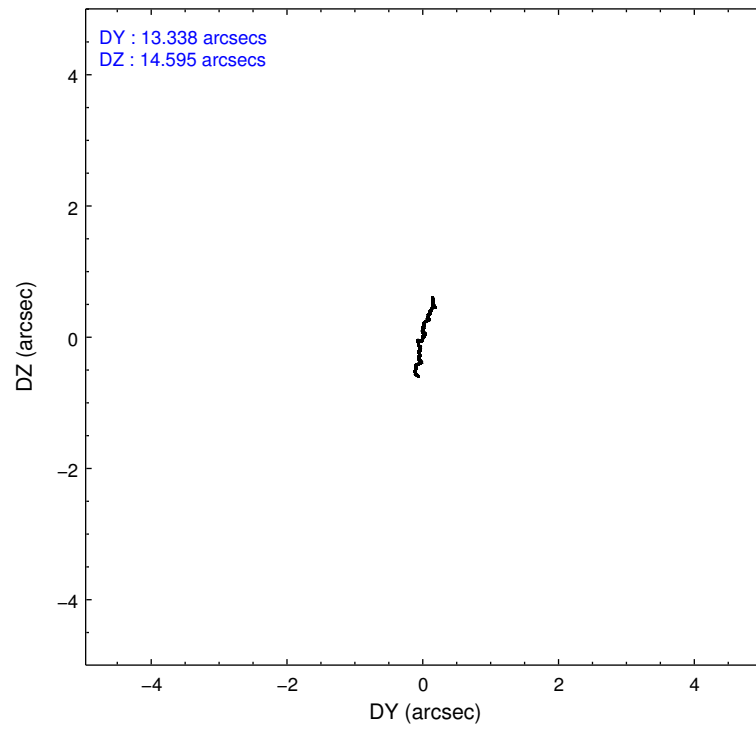
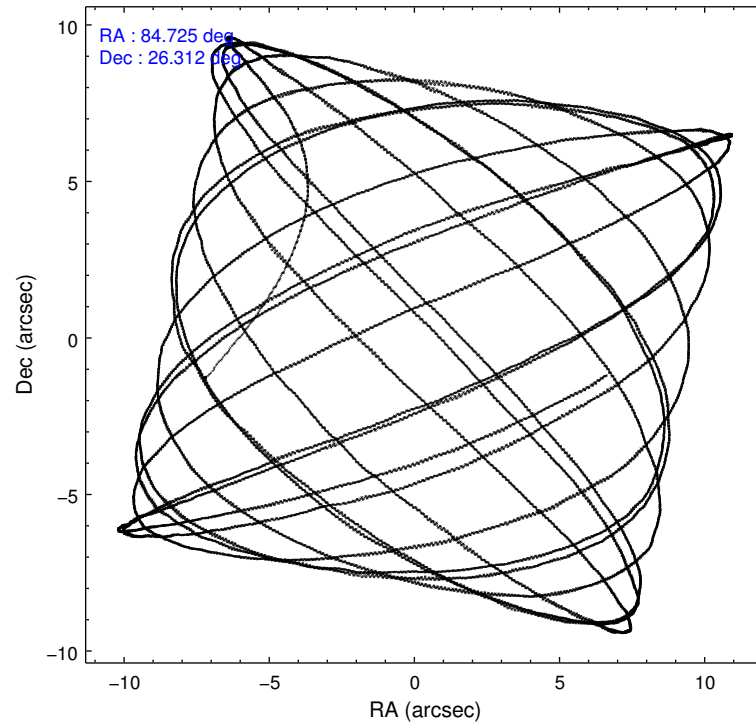
2.1.3 Events

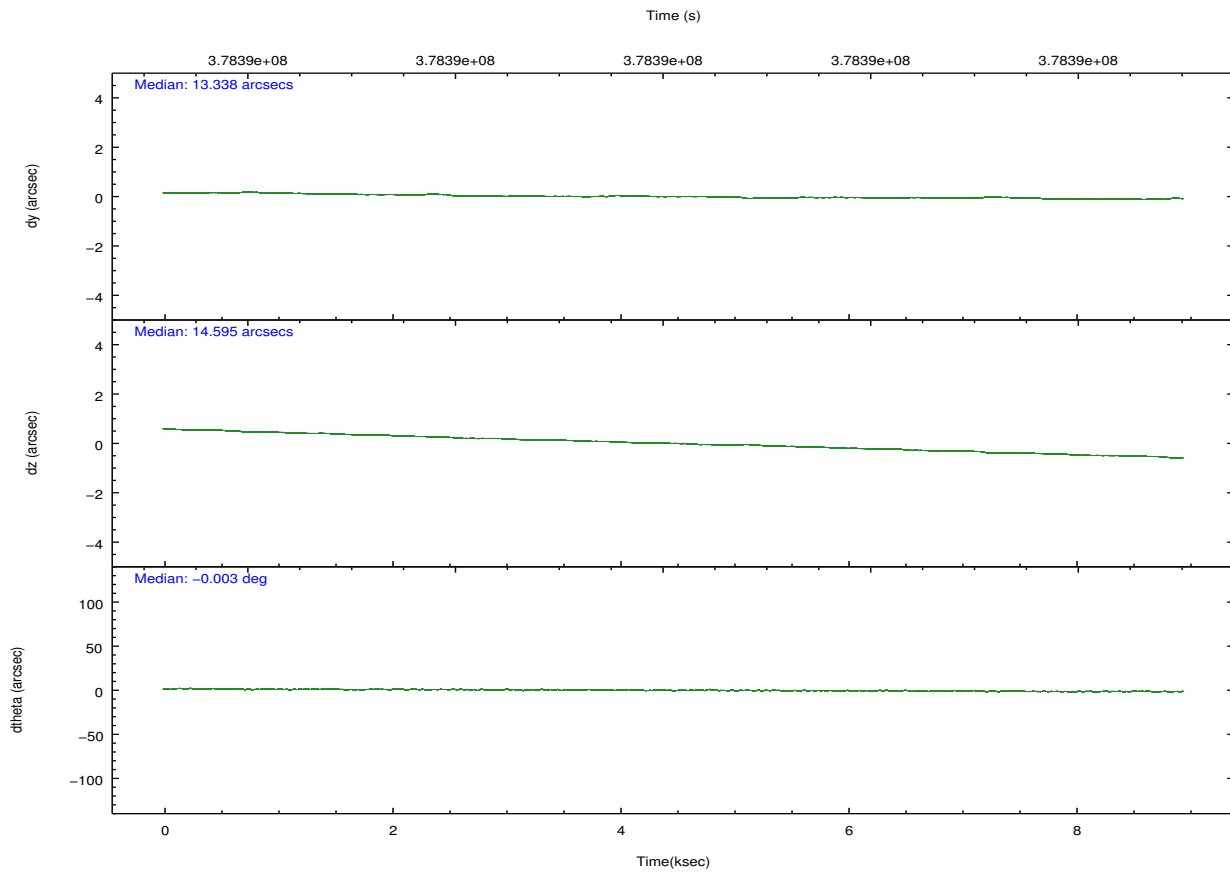
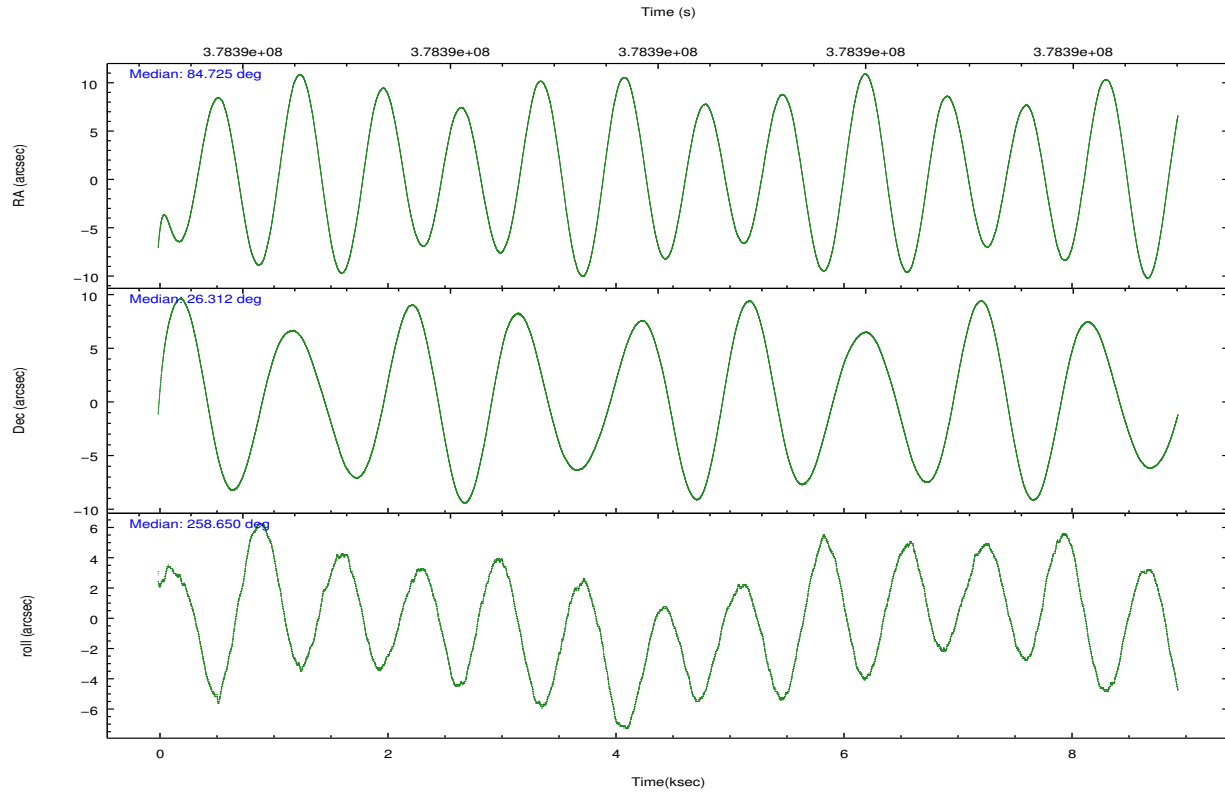
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	133067	135098	399578	412882	259613	126323	grade 0 events	3175	6175	37009	45247	51902	5046
rejected events	115368	56648	131620	79144	150914	103063		2%	4%	9%	10%	19%	3%
rejected %	86%	41%	32%	19%	58%	81%	grade 1 events	72	50	121	460	231	69
								0%	0%	0%	0%	0%	0%
							grade 2 events	8592	36747	192700	113774	34906	11544
								6%	27%	48%	27%	13%	9%
							grade 3 events	1964	2762	3660	23977	5816	1981
								1%	2%	0%	5%	2%	1%
							grade 4 events	2041	2639	3576	23871	5594	2030
								1%	1%	0%	5%	2%	1%
							grade 5 events	1640	4307	3283	7858	3271	2058
								1%	3%	0%	1%	1%	1%
							grade 6 events	1931	30148	31119	127015	10507	2670
								1%	22%	7%	30%	4%	2%
							grade 7 events	113652	52270	128110	70680	147386	100925
								85%	38%	32%	17%	56%	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	CC33_GRADED	CC33_GRADED	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	84.714669	84.72477325072838	CCD I2 on	N	N
[deg] Pointing Dec	26.337847	26.31206466117699	CCD I3 on	N	N
[deg] Pointing Roll	258.505698	258.6578454701943	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	-183.992523	-183.985022191653	CCD S3 on	Y	Y
[mm] SIM translation stage offset	-6.14	-6.147500391354811	CCD S4 on	Y	Y
[s] Observation start time (MET)	378385761.184000	378384372.09618	CCD S5 on	Y	Y
Observation start date	2009-12-28T11:08:15	2009-12-28T10:46:12	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	378394561.184000	378395285.27174	On-chip summing requested	N	N
Observation end date	2009-12-28T13:34:55	2009-12-28T13:48:05	Subarray requested	NONE	NONE
Read mode	CONTINUOUS	CONTINUOUS	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0

2.3 Aspect



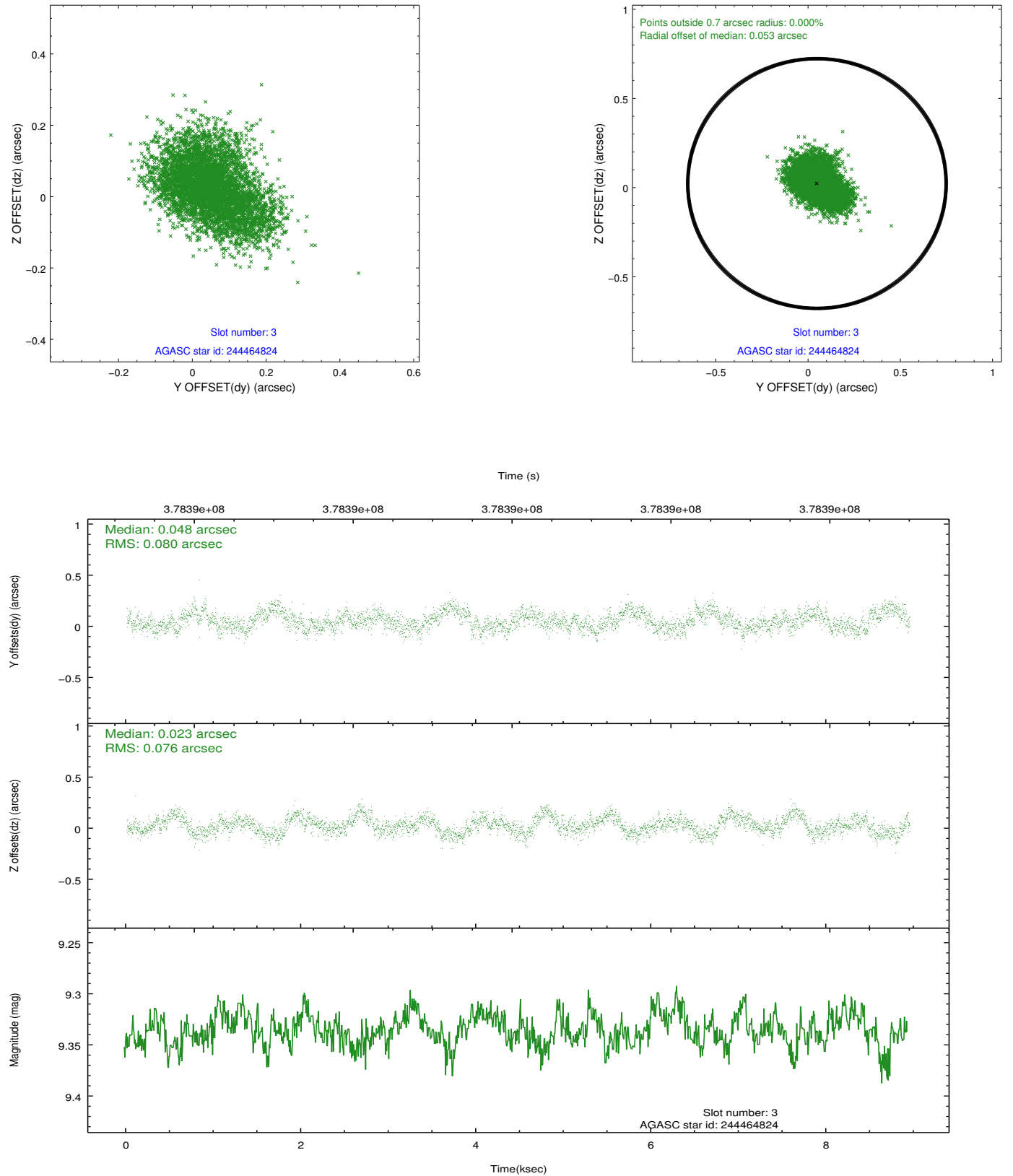


Slot Statistics

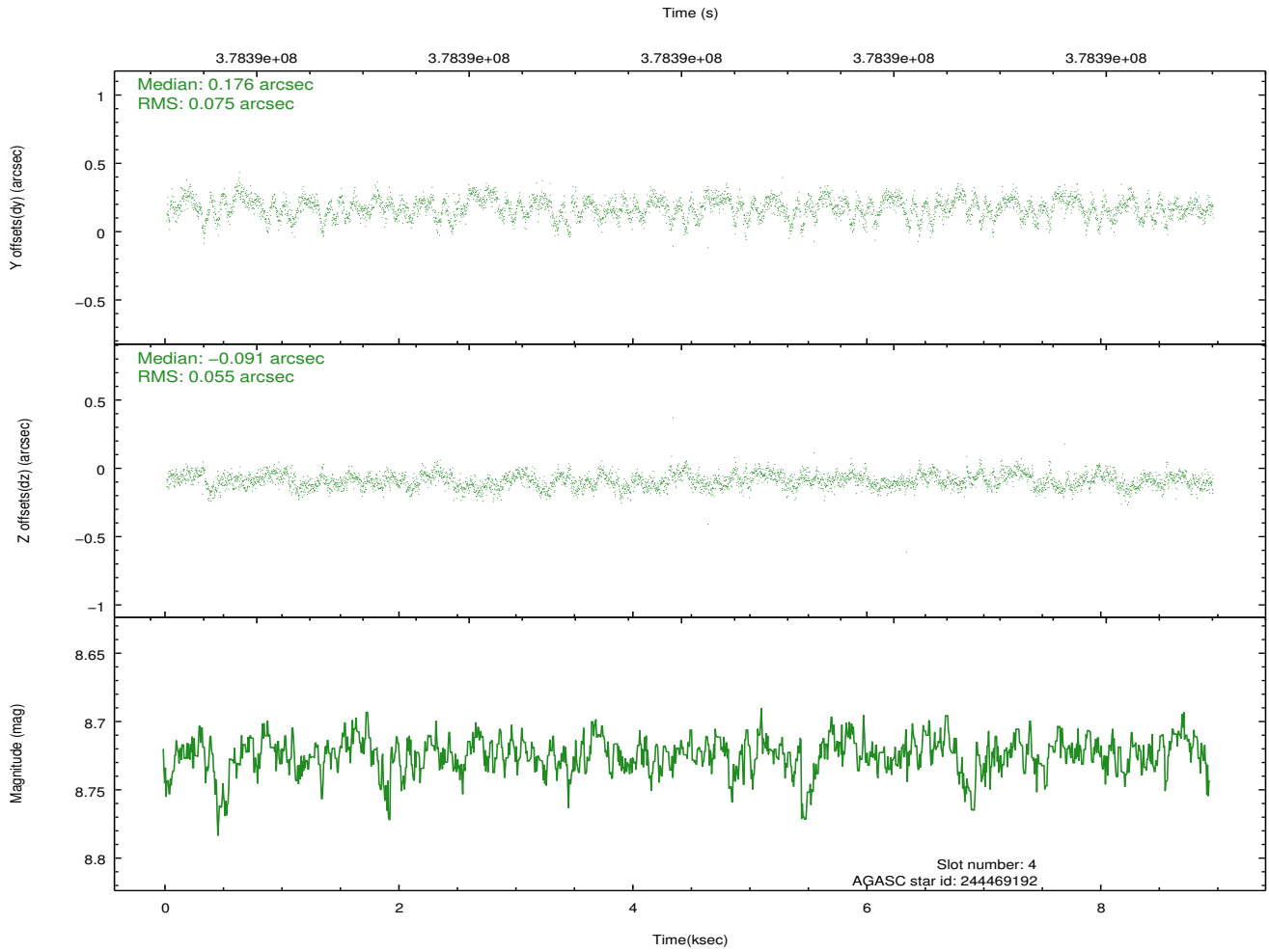
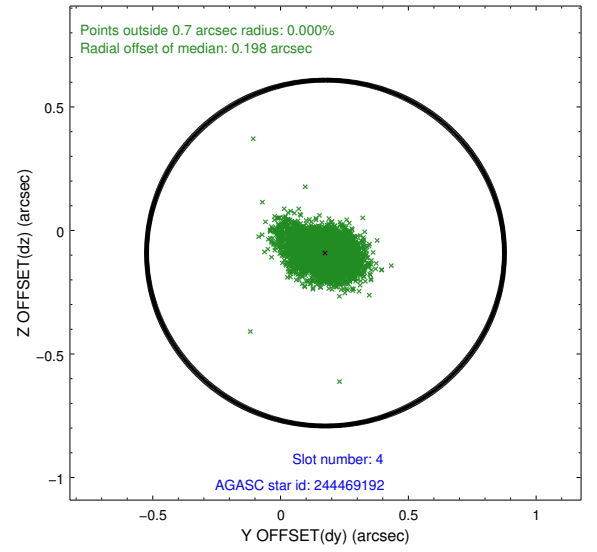
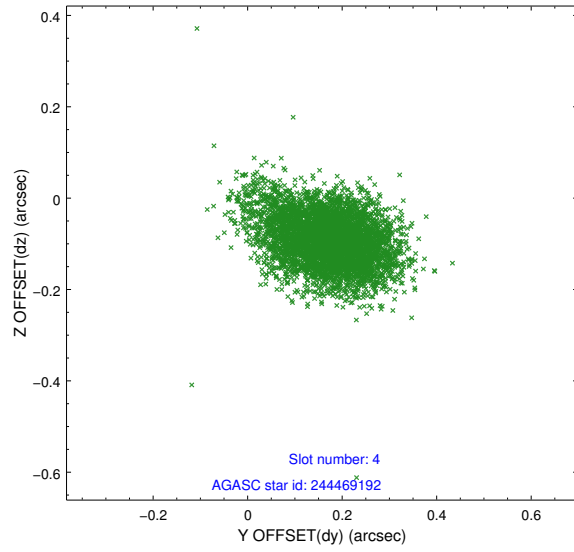
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.81	2182	-0.064	-0.096	0.017	0.026	0.000000	0.000000	-765.94	-1862.75
1	FID	ACIS-S-4	6.89	2182	0.158	0.056	0.006	0.011	0.000000	0.000000	2147.32	45.12
2	FID	ACIS-S-5	6.94	2182	-0.124	0.047	0.016	0.024	0.000000	0.000000	-1818.02	39.56
3	GUIDE	244464824	9.34	4358	0.048	0.023	0.119	0.189	84.469132	26.011484	1309.42	-543.60
4	GUIDE	244469192	8.72	4363	0.176	-0.091	0.097	0.163	83.894873	25.870782	2169.86	-2268.44
5	GUIDE	244976832	9.01	4340	-0.146	0.034	0.099	0.157	84.079575	26.357761	334.02	-2022.87
6	GUIDE	244982936	8.92	4358	-0.006	0.088	0.103	0.159	84.571386	26.917175	-1951.52	-866.61
7	GUIDE	244979896	8.35	4363	-0.070	-0.061	0.093	0.143	85.403275	26.615563	-1427.67	1971.43

2.4 Star Slots

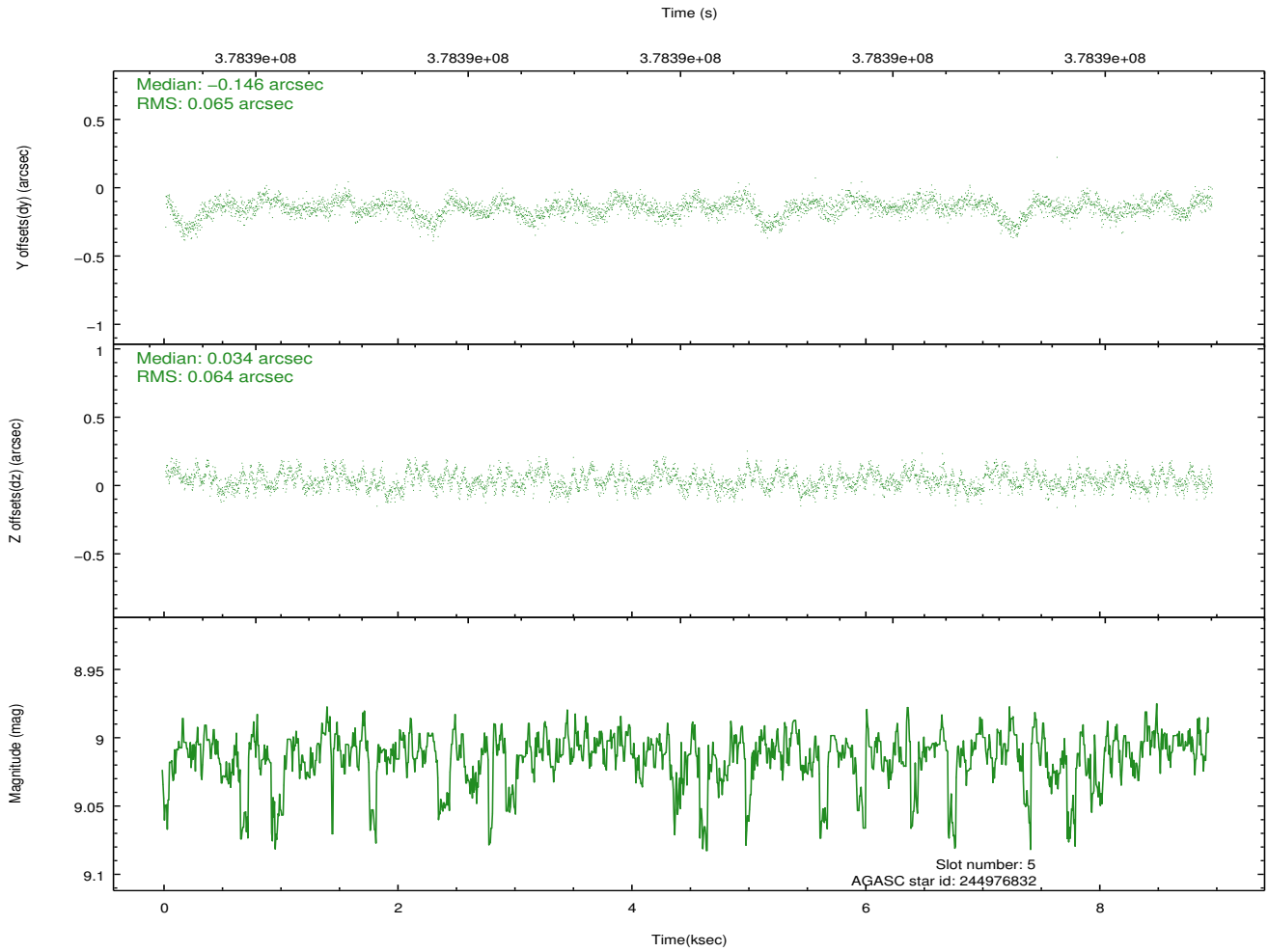
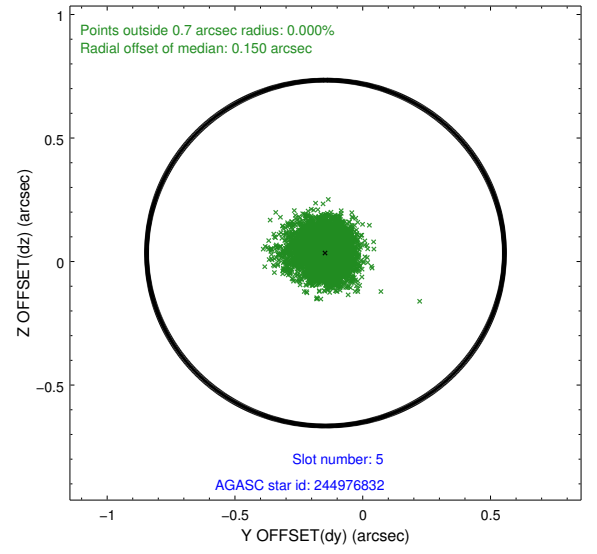
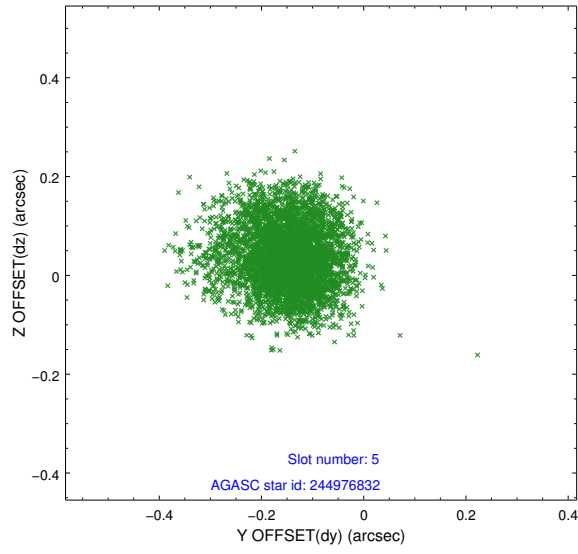
2.4.1 Slot 3



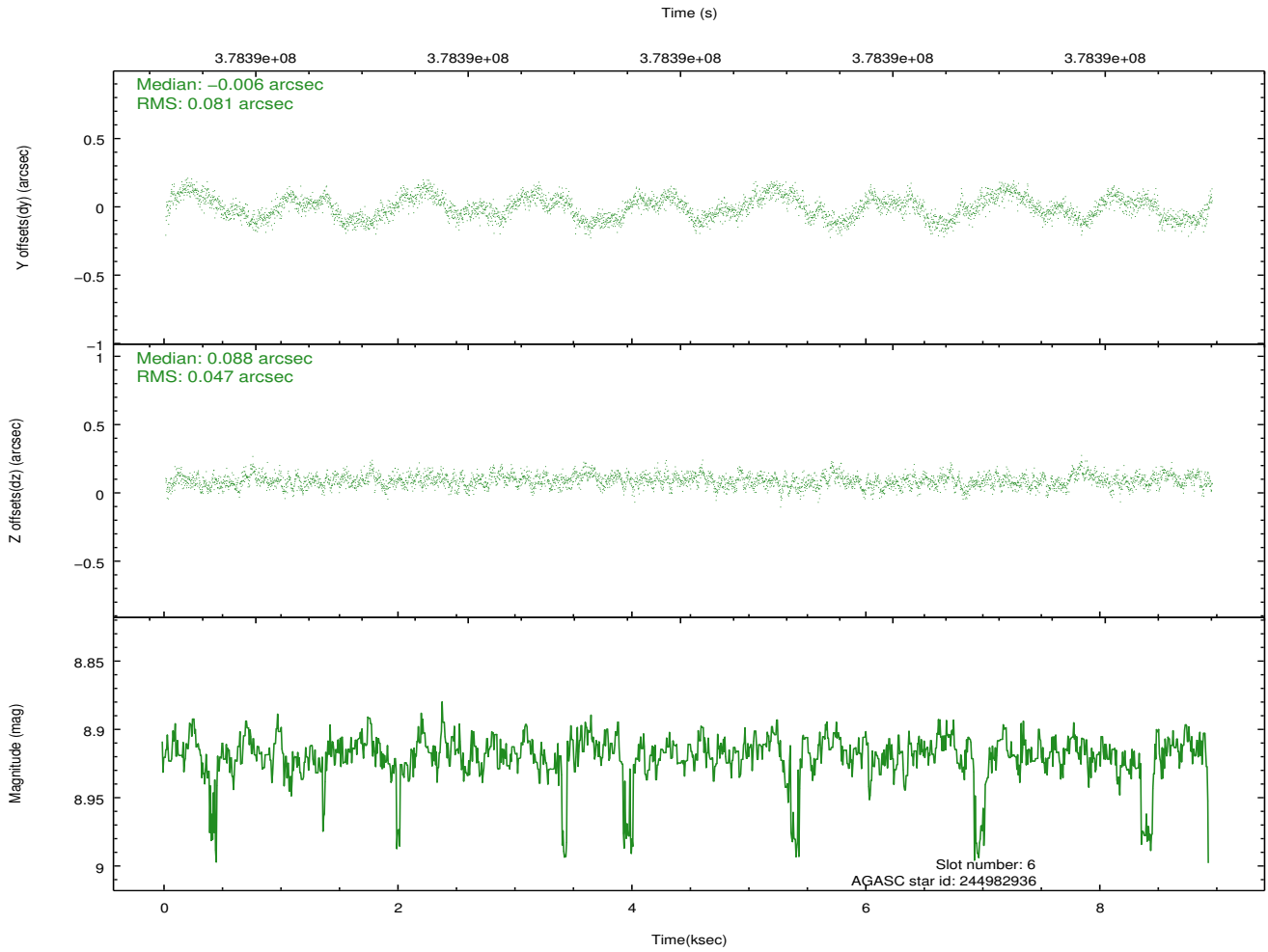
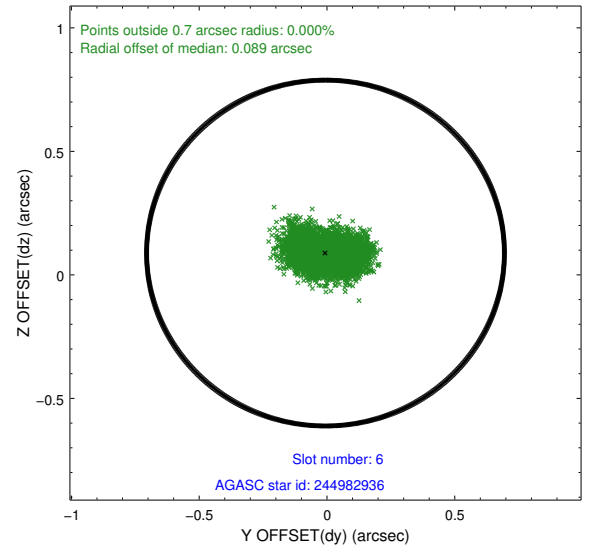
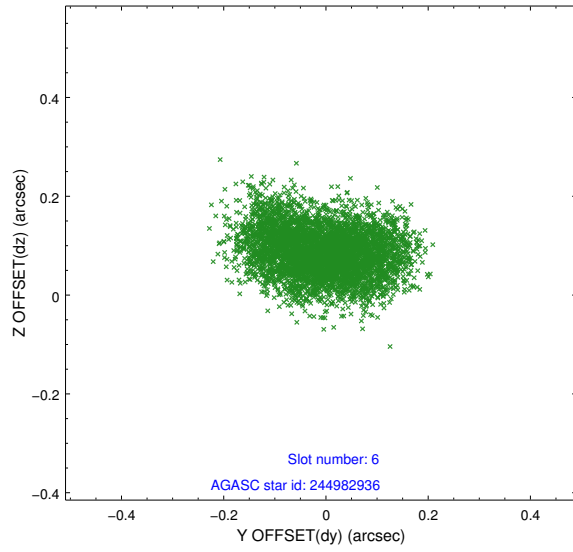
2.4.2 Slot 4



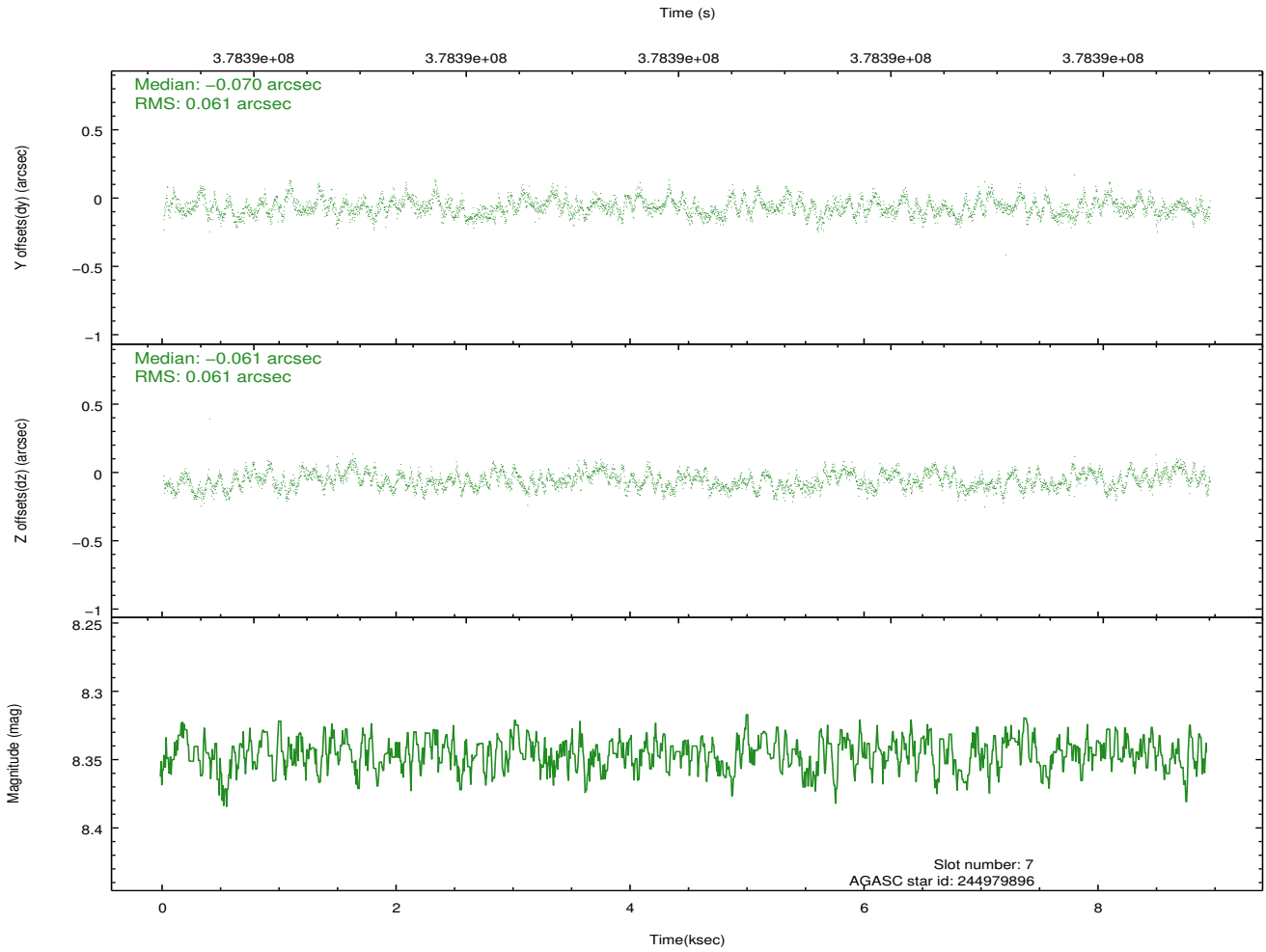
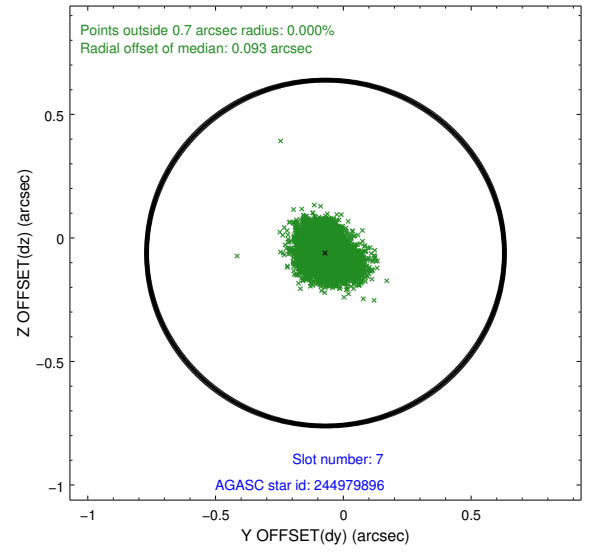
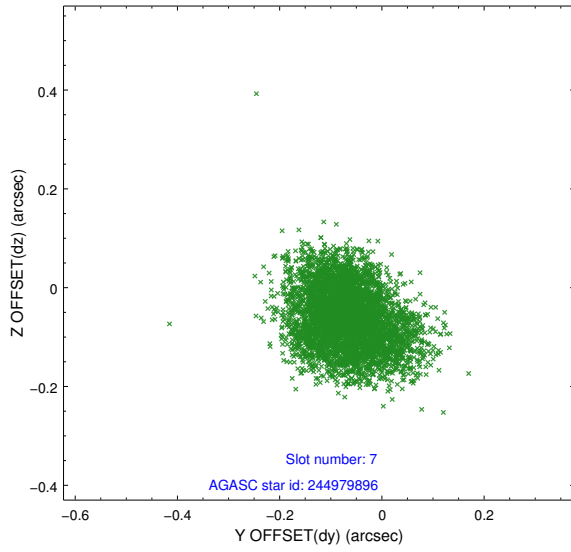
2.4.3 Slot 5



2.4.4 Slot 6

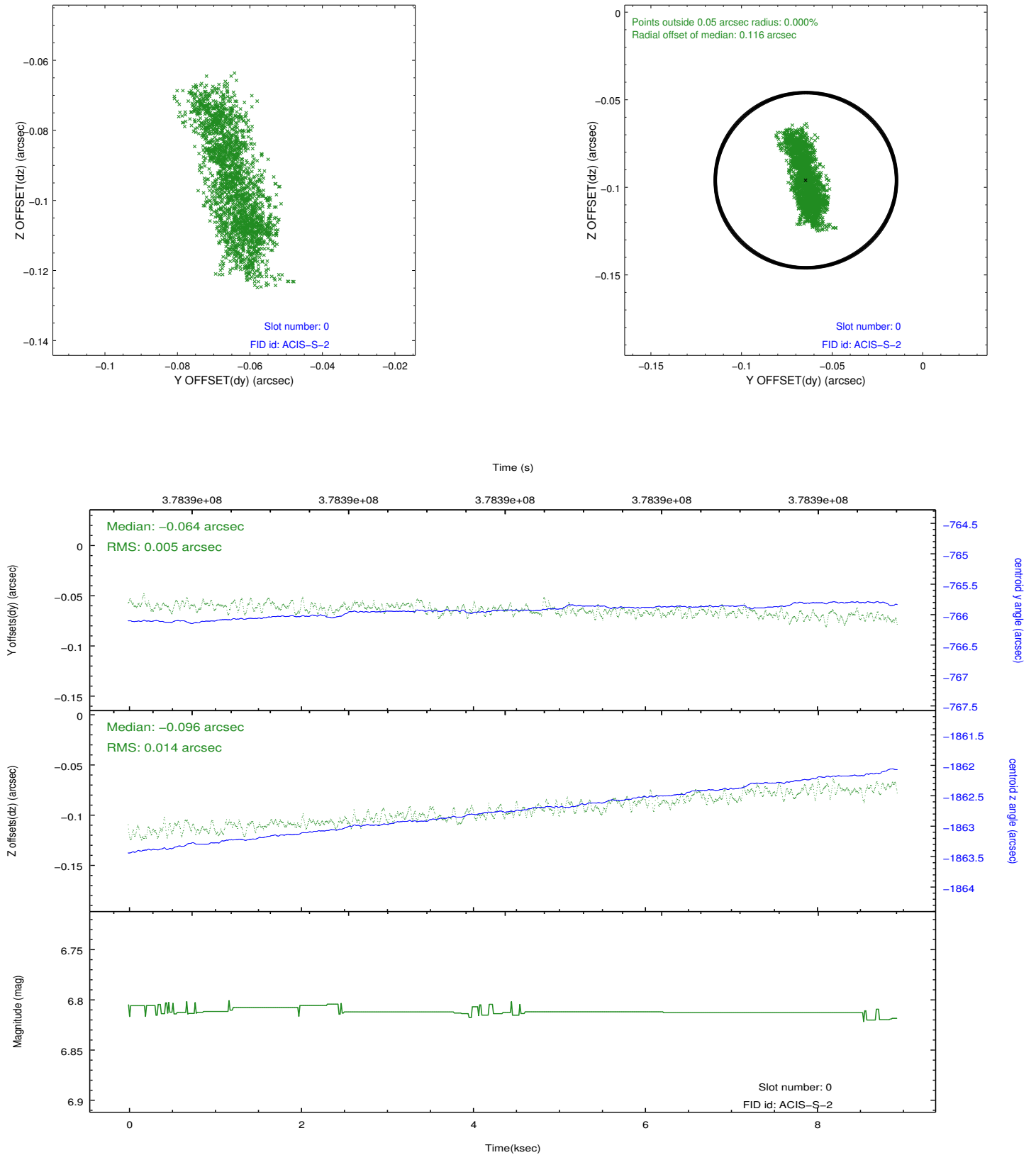


2.4.5 Slot 7

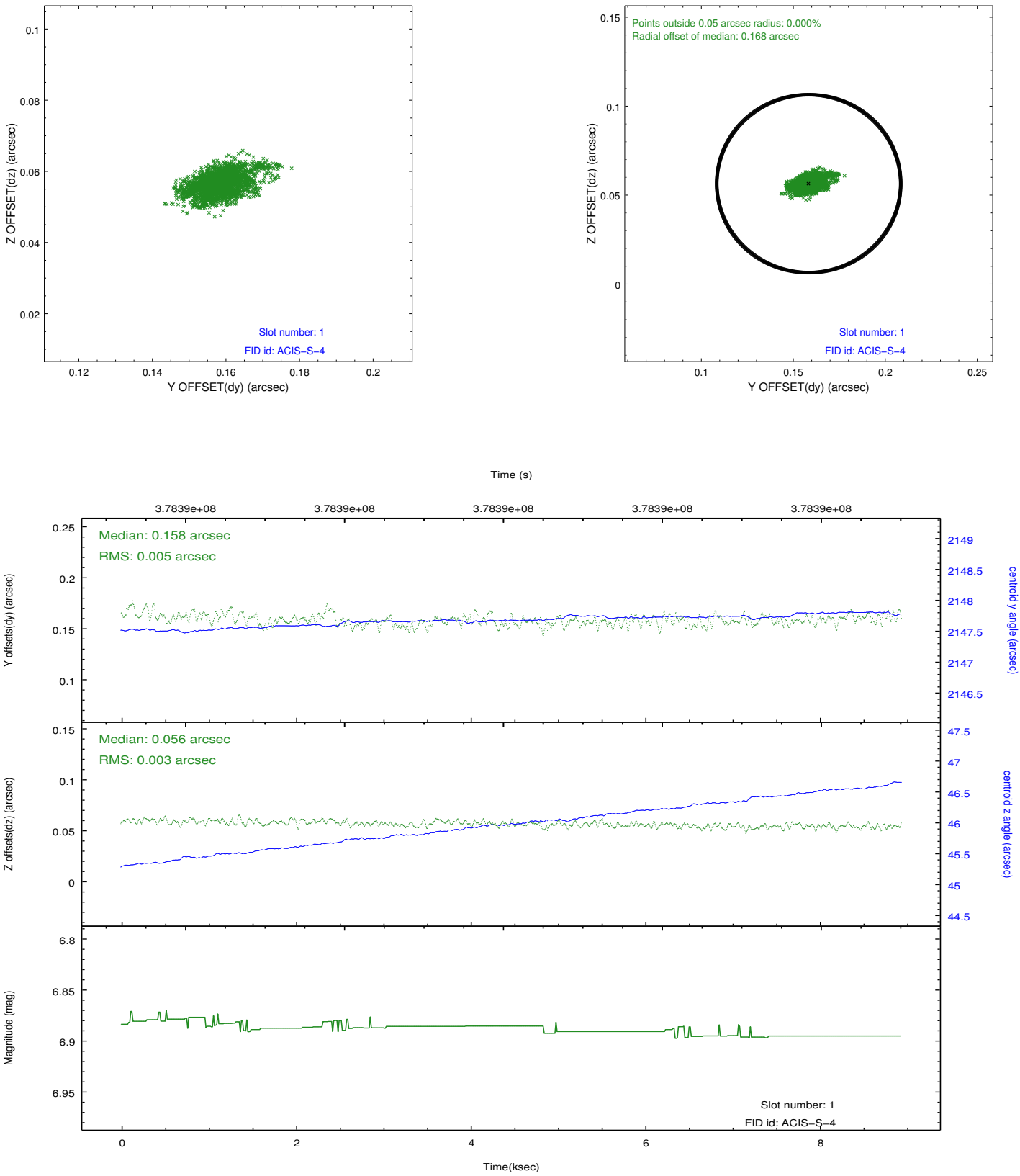


2.5 FID Slots

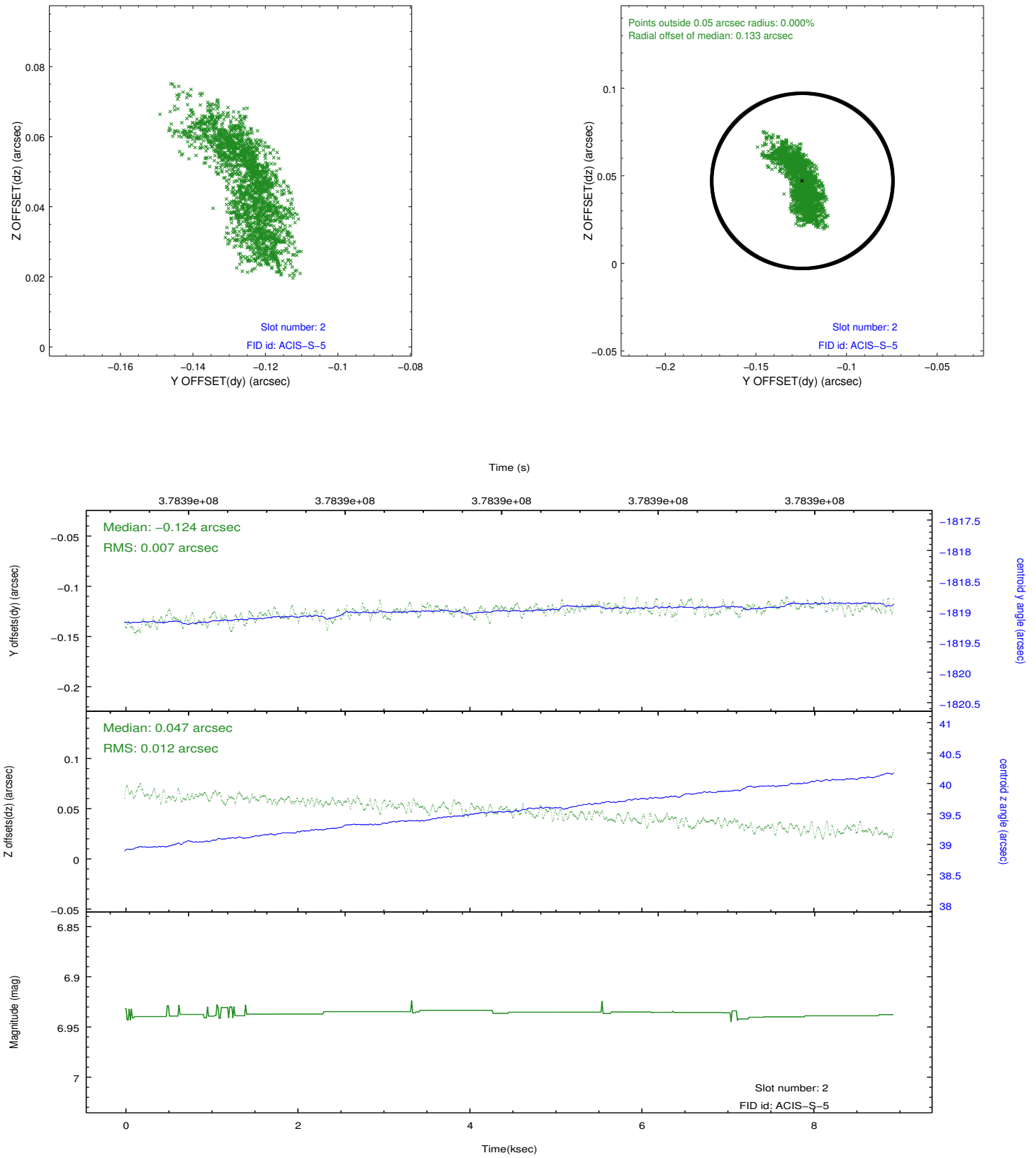
2.5.1 Slot 0



2.5.2 Slot 1

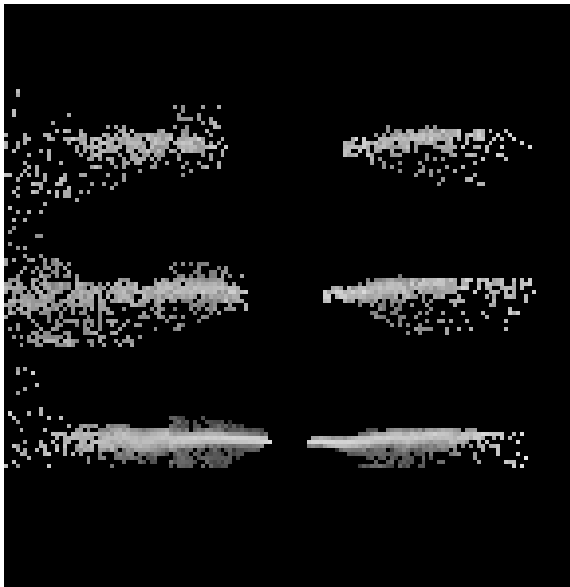


2.5.3 Slot 2

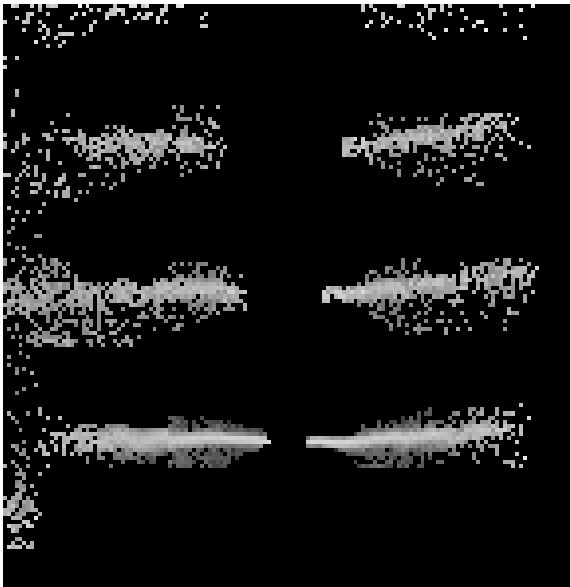


3 Gratings

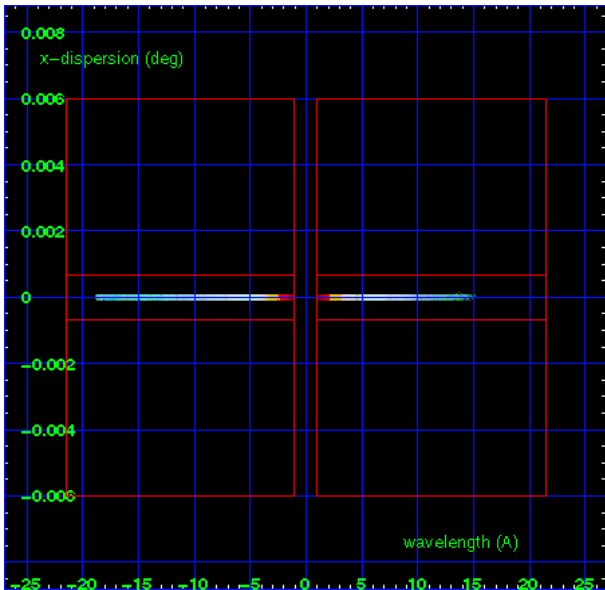
3.1 HEG Arm



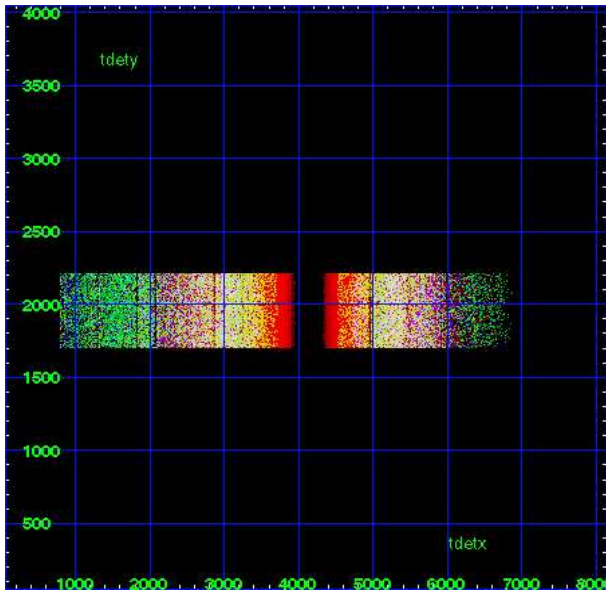
HEG Order Sort 123



HEG Order Sort ALL

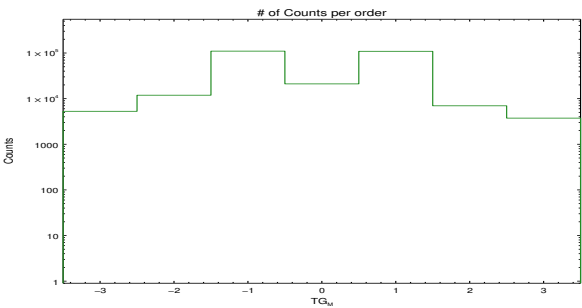


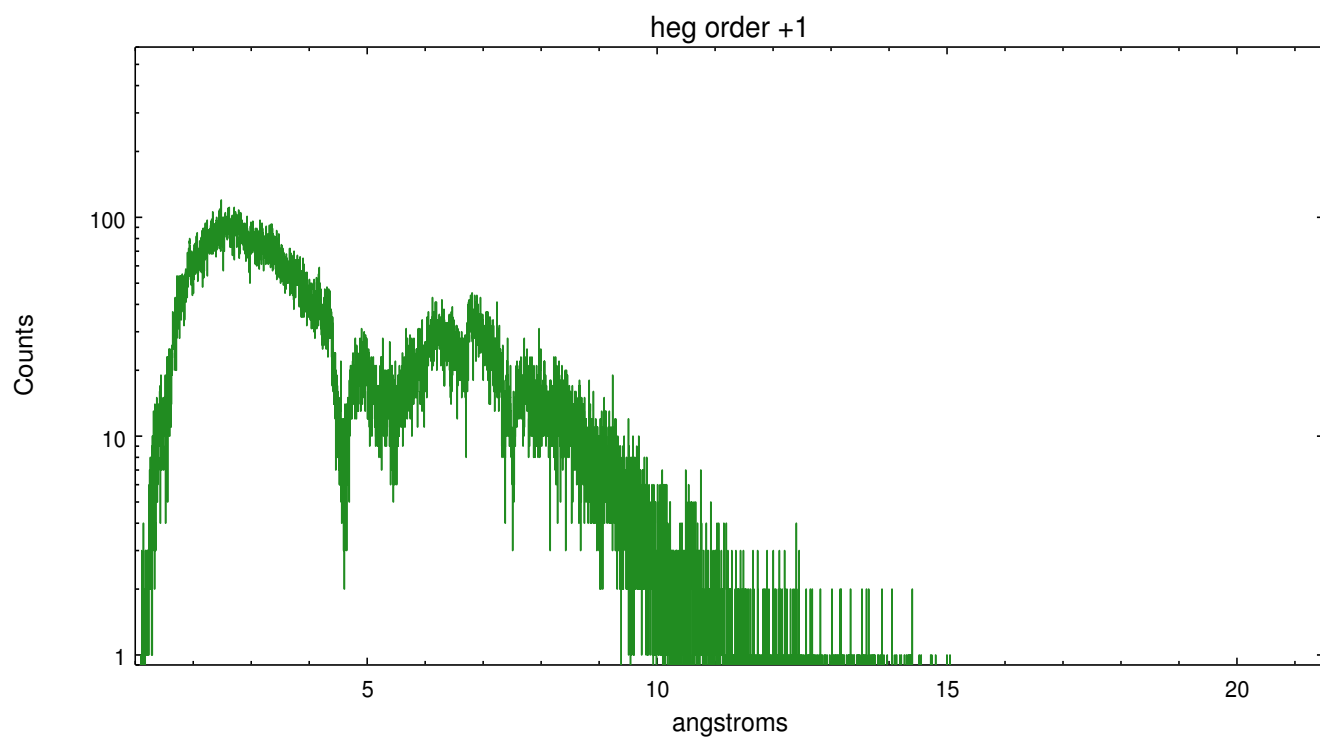
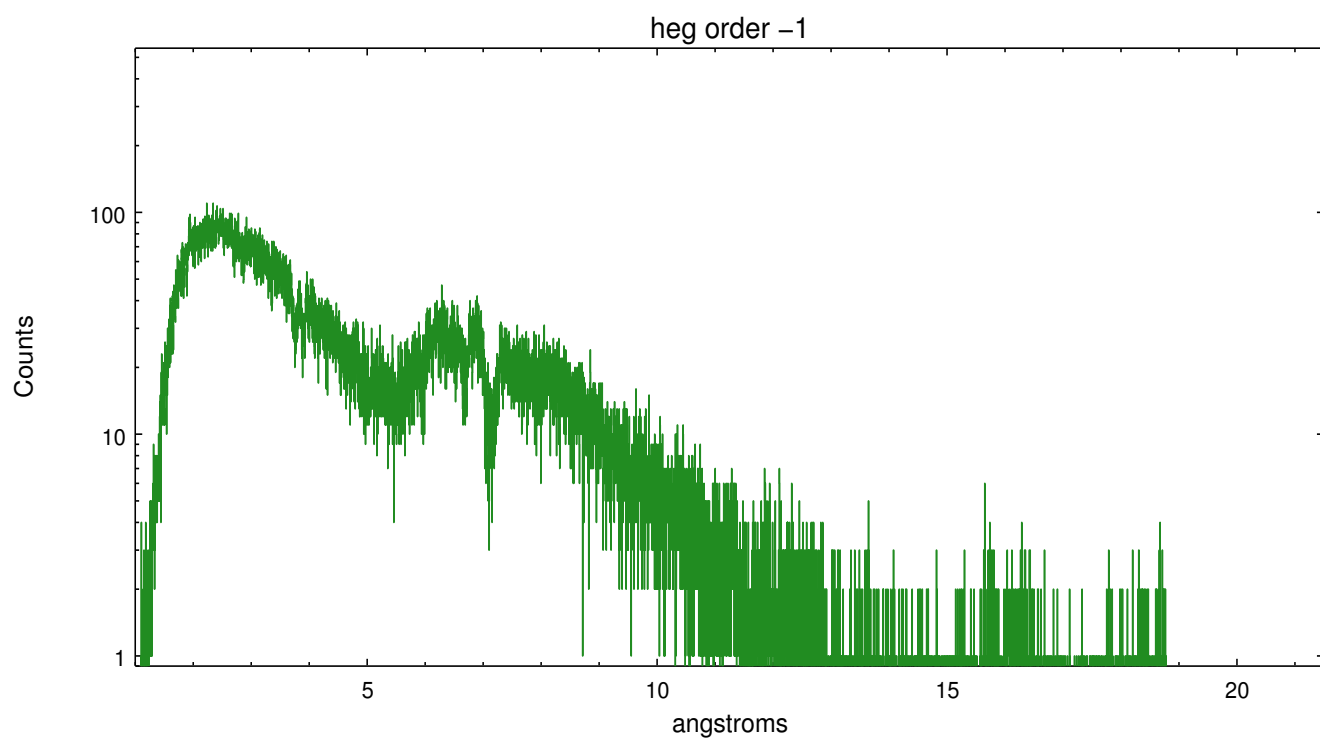
Spot Image HEG



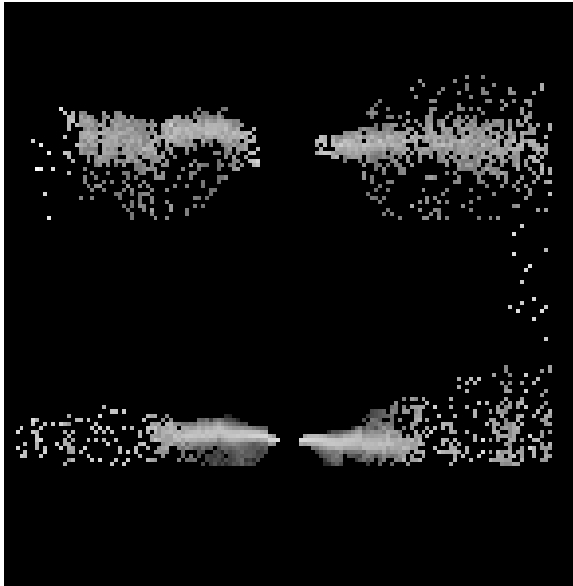
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	5277	11887	109918	21062	108940	6970	3740

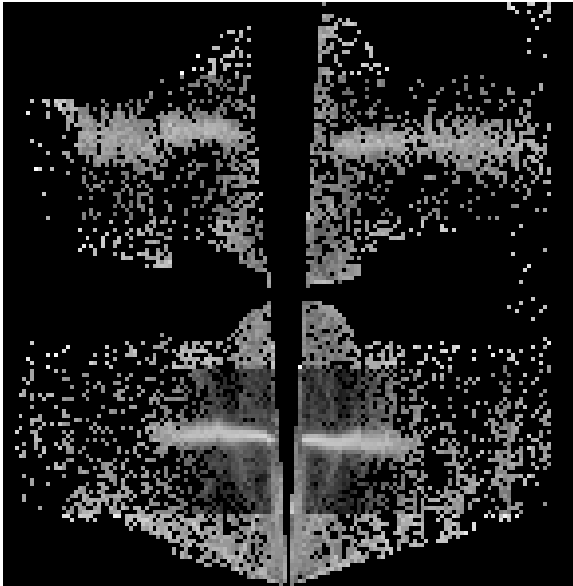




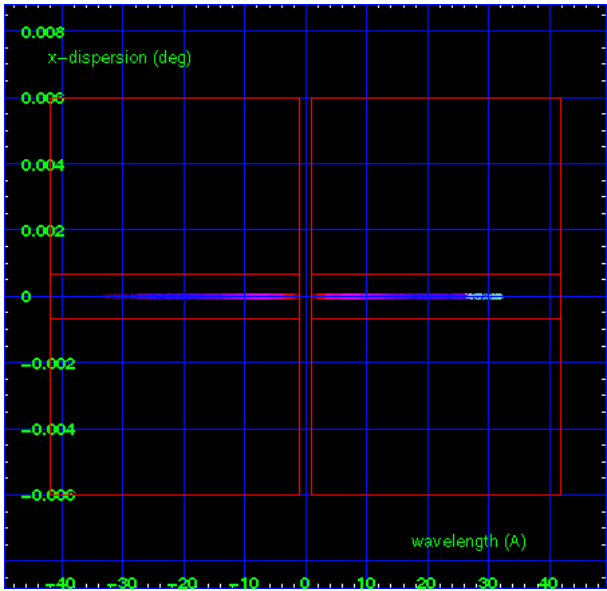
3.2 MEG Arm



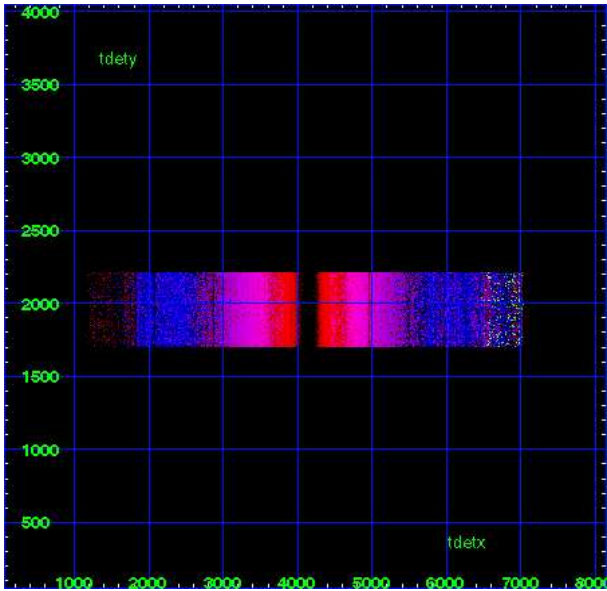
MEG Order Sort 123



MEG Order Sort ALL

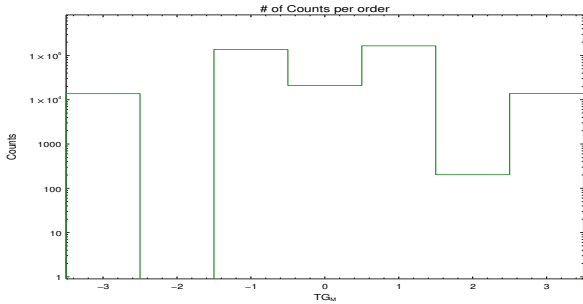


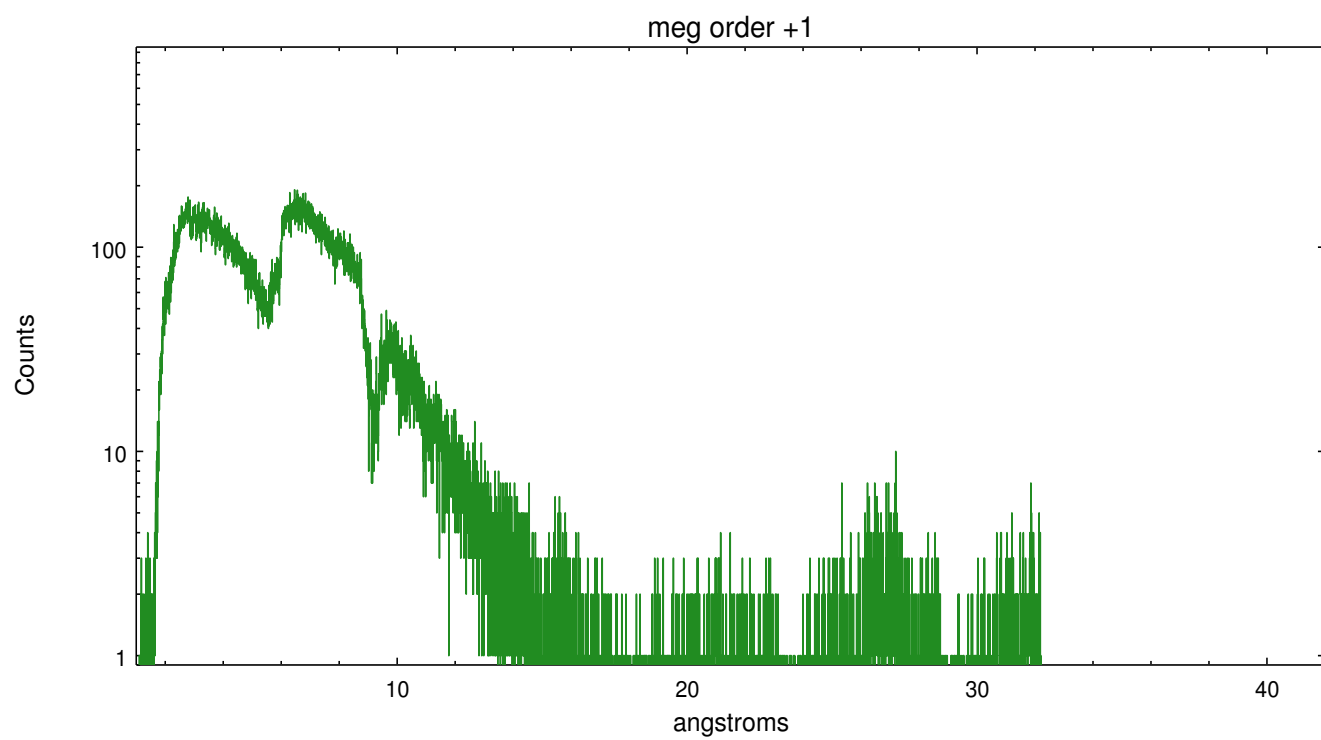
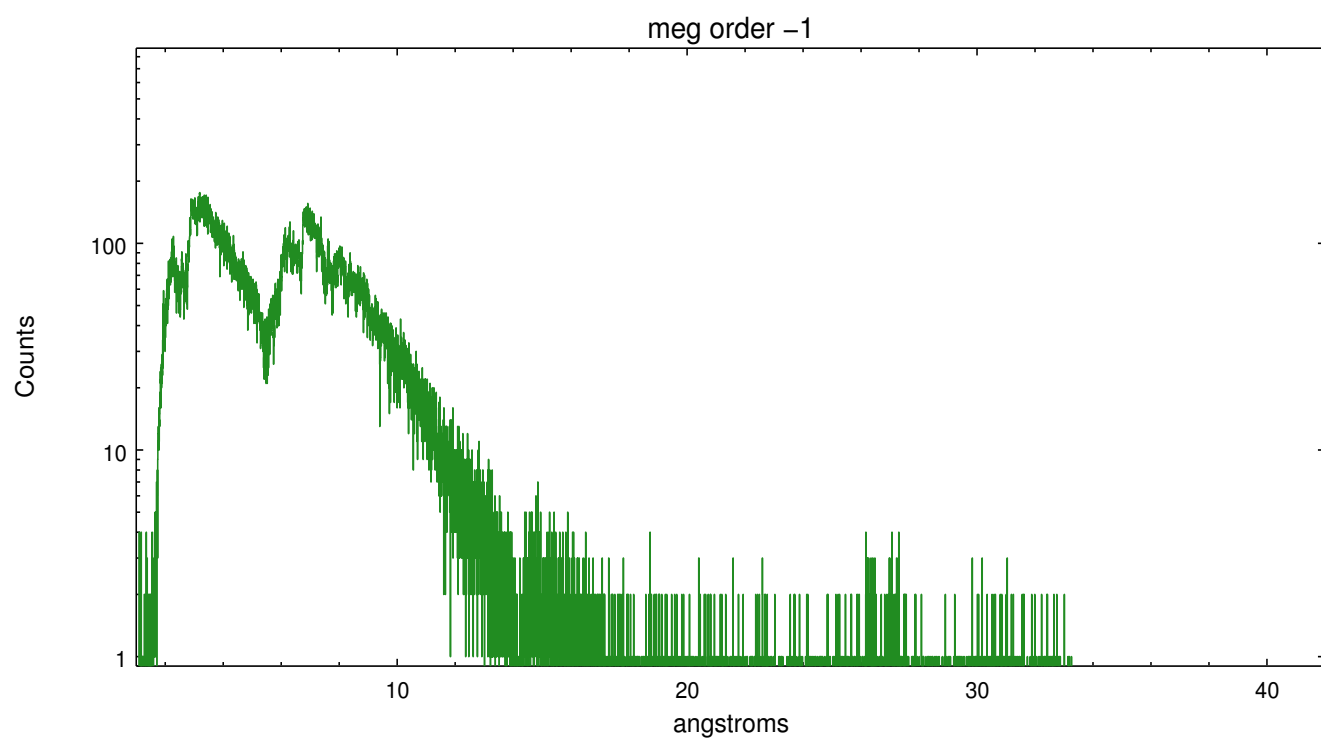
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	13711	0	135880	21062	164765	203	13857





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.91725

A.2 Comments