

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13684 - L2 Version 1
Chandra X-Ray Center

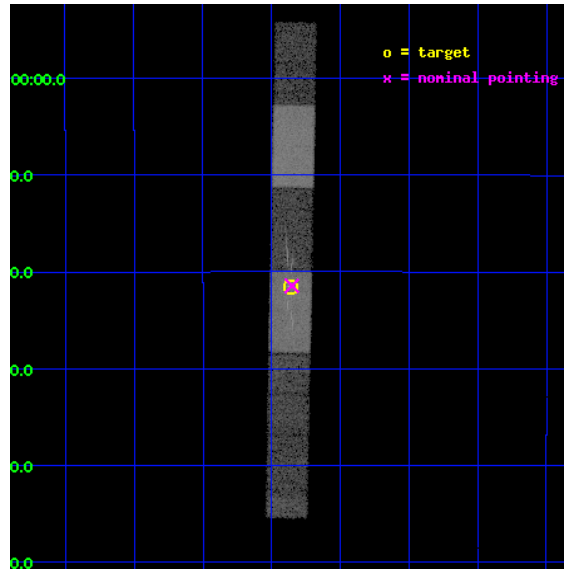
L2 Processing Date : Mar 18 2012

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1 Front

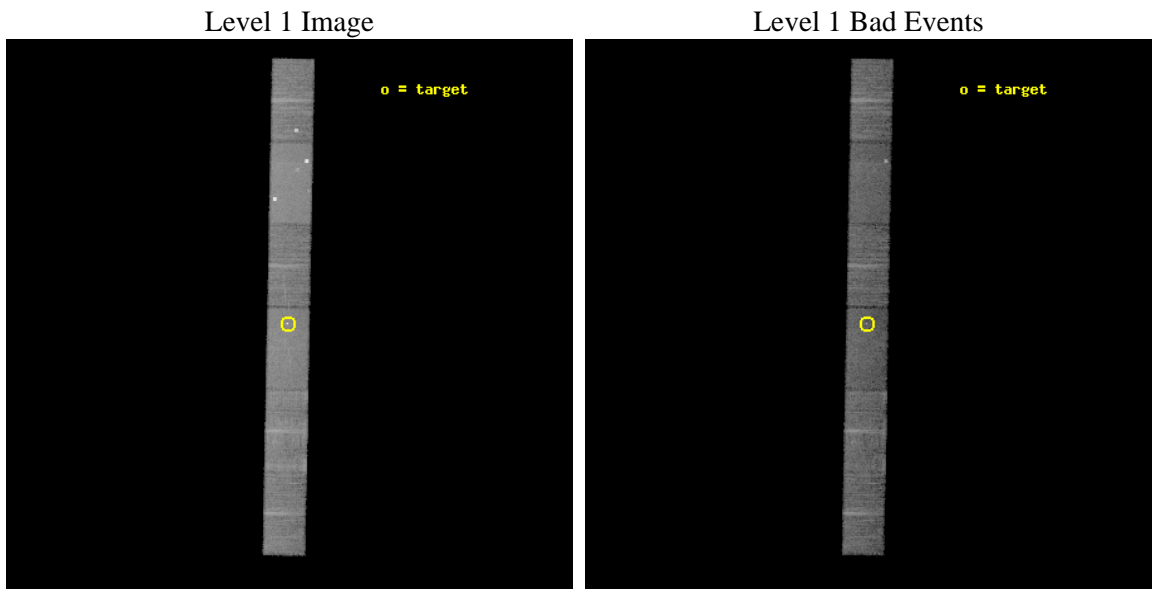
seq_num	401370	Sequence number
obs_id	13684	Observation id
title	INVESTIGATING NEW INTEGRAL SOURCES WITH CHANDRA	Proposal title
observer	Adamantia Paizis	Principal investigator
object	IGR J18179-1621	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	274.46598	Observer's specified target RA [deg]
dec_targ	-16.35912	Observer's specified target Dec [deg]
ra_nom	274.46329655628	Nominal RA [deg]
dec_nom	-16.357524623698	Nominal Dec [deg]
roll_nom	91.073732048543	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20076.794084489	Sum of GTIs [s]
livetime	19629.247247252	Livetime [s]
ontime4	20076.835124493	Sum of GTIs [s]
ontime5	20076.753044486	Sum of GTIs [s]
ontime6	20076.712004483	Sum of GTIs [s]
ontime7	20076.794084489	Sum of GTIs [s]
ontime8	20076.670964479	Sum of GTIs [s]
ontime9	20076.629924476	Sum of GTIs [s]
l2events	101179	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	2	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	20076.794084489	Sum of GTIs [s]
caldsver	4.4.8	 	ontime4	20076.835124493	Sum of GTIs [s]
date	2012-03-18T17:52:44	Date and time of file creation	ontime5	20076.753044486	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	20076.712004483	Sum of GTIs [s]
			ontime7	20076.794084489	Sum of GTIs [s]
			ontime8	20076.670964479	Sum of GTIs [s]
			ontime9	20076.629924476	Sum of GTIs [s]
			l1events	442266	Number of level 1 events

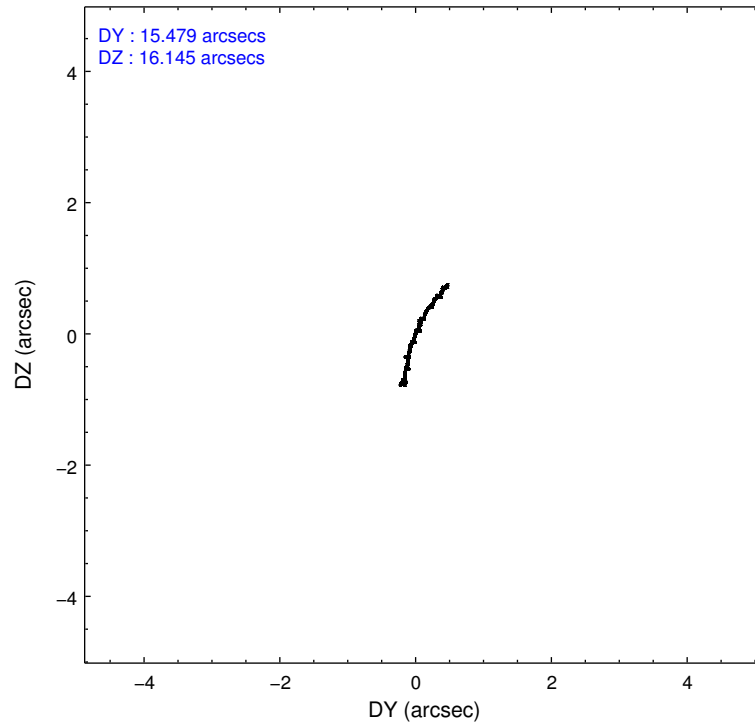
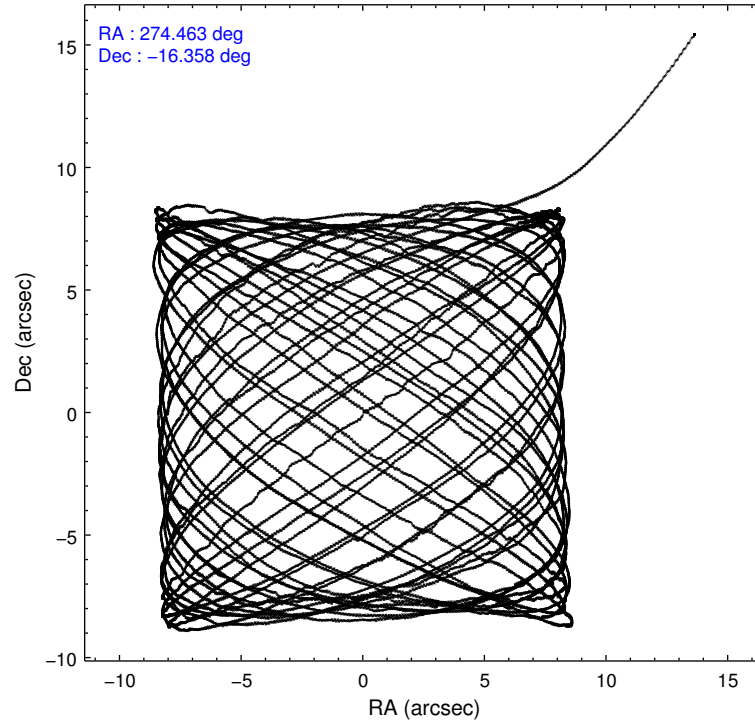
2.1.3 Events

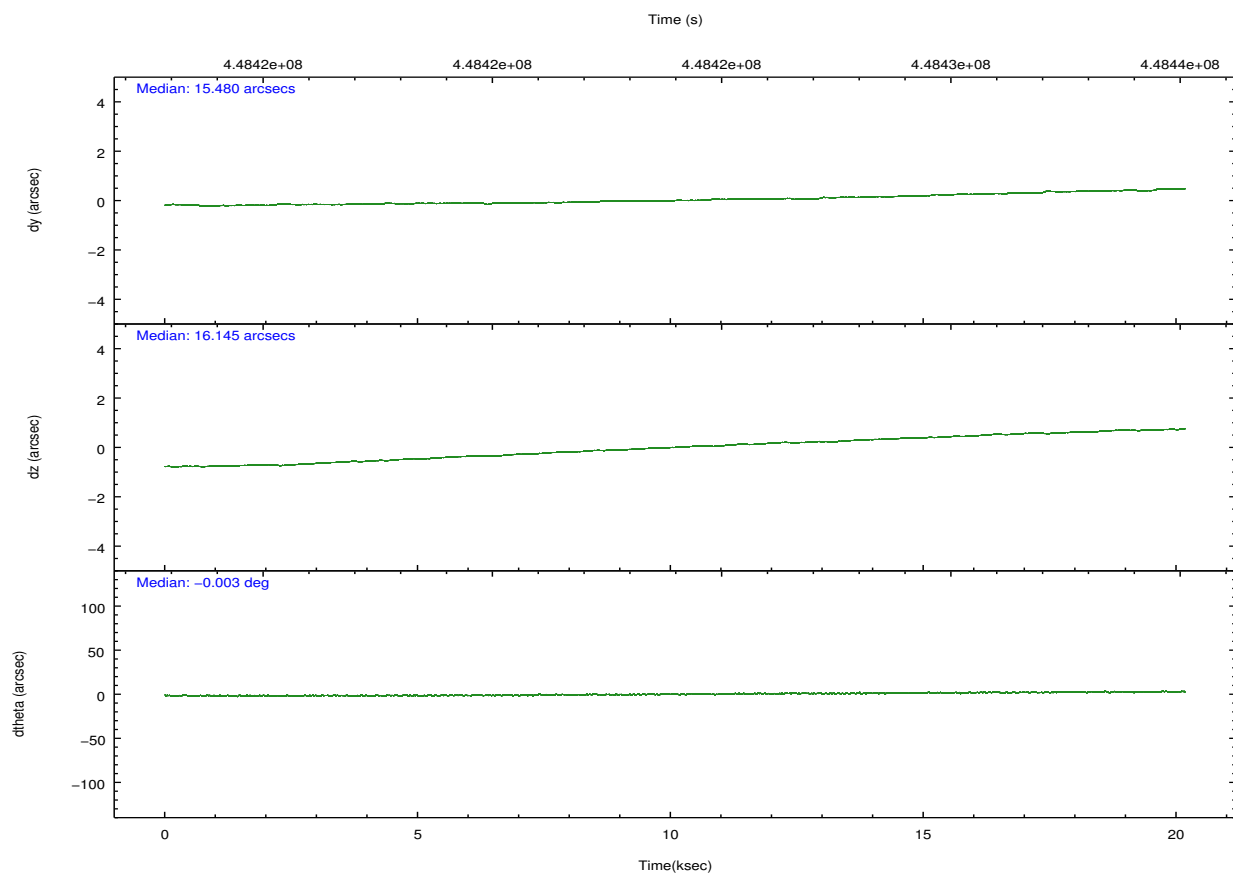
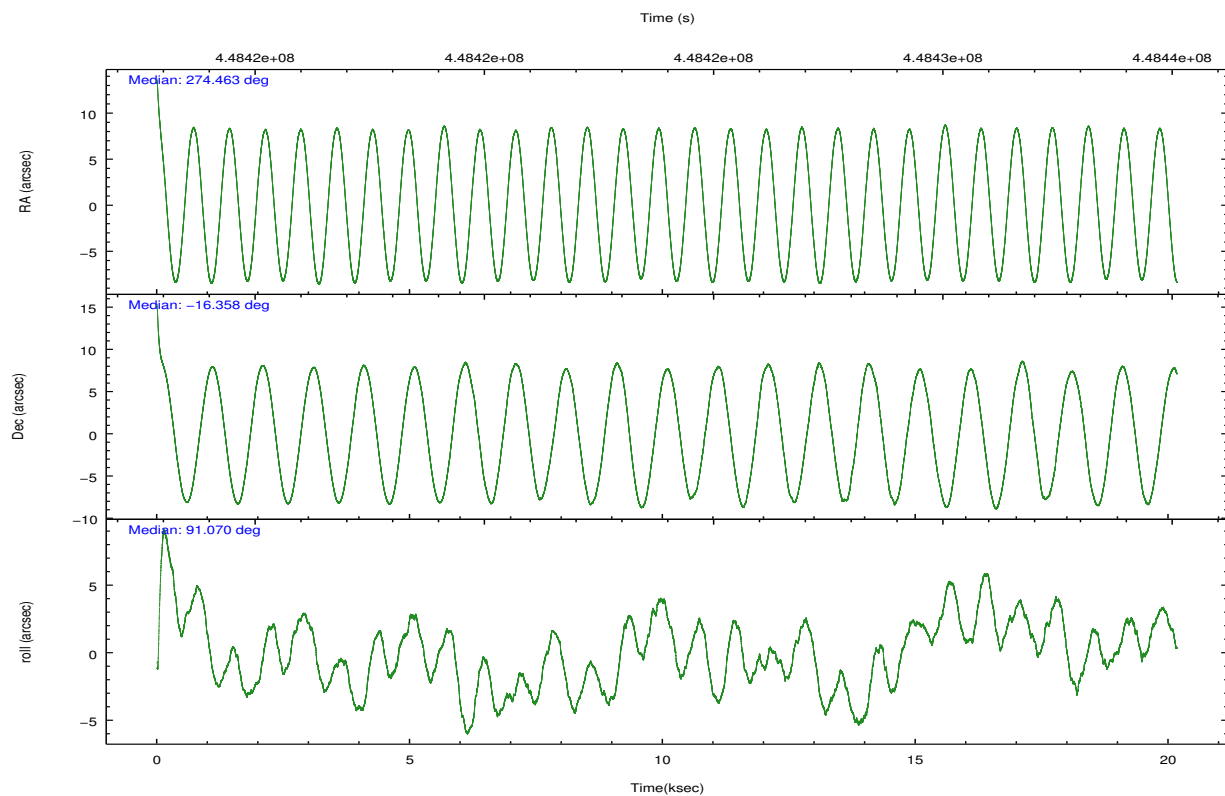
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	67564	103898	58055	77770	77475	57504	grade 0 events	5112	14139	2800	2818	5574	2179
rejected events	57101	46340	49723	42039	57009	49924		7%	13%	4%	3%	7%	3%
rejected %	84%	44%	85%	54%	73%	86%	grade 1 events	23	943	23	59	38	17
								0%	0%	0%	0%	0%	0%
							grade 2 events	2305	17805	2166	9346	5186	2062
								3%	17%	3%	12%	6%	3%
							grade 3 events	634	1007	779	2289	1983	787
								0%	0%	1%	2%	2%	1%
							grade 4 events	591	1048	800	2153	1922	722
								0%	1%	1%	2%	2%	1%
							grade 5 events	2062	4607	2388	5534	3440	2516
								3%	4%	4%	7%	4%	4%
							grade 6 events	1825	23569	1790	19129	5802	1834
								2%	22%	3%	24%	7%	3%
							grade 7 events	55012	40780	47309	36442	53530	47387
								81%	39%	81%	46%	69%	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	GRADED	GRADED	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	274.478332	274.4632965562761	CCD I2 on	N	N
[deg] Pointing Dec	-16.380765	-16.3575246236981	CCD I3 on	N	N
[deg] Pointing Roll	90.921349	91.07373204854335	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	448414065.184000	448412956.82277	CCD S5 on	Y	Y
Observation start date	2012-03-17T23:26:39	2012-03-17T23:09:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	448434065.184000	448435026.61144	On-chip summing requested	N	N
Observation end date	2012-03-18T04:59:59	2012-03-18T05:17:06	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.8

2.3 Aspect



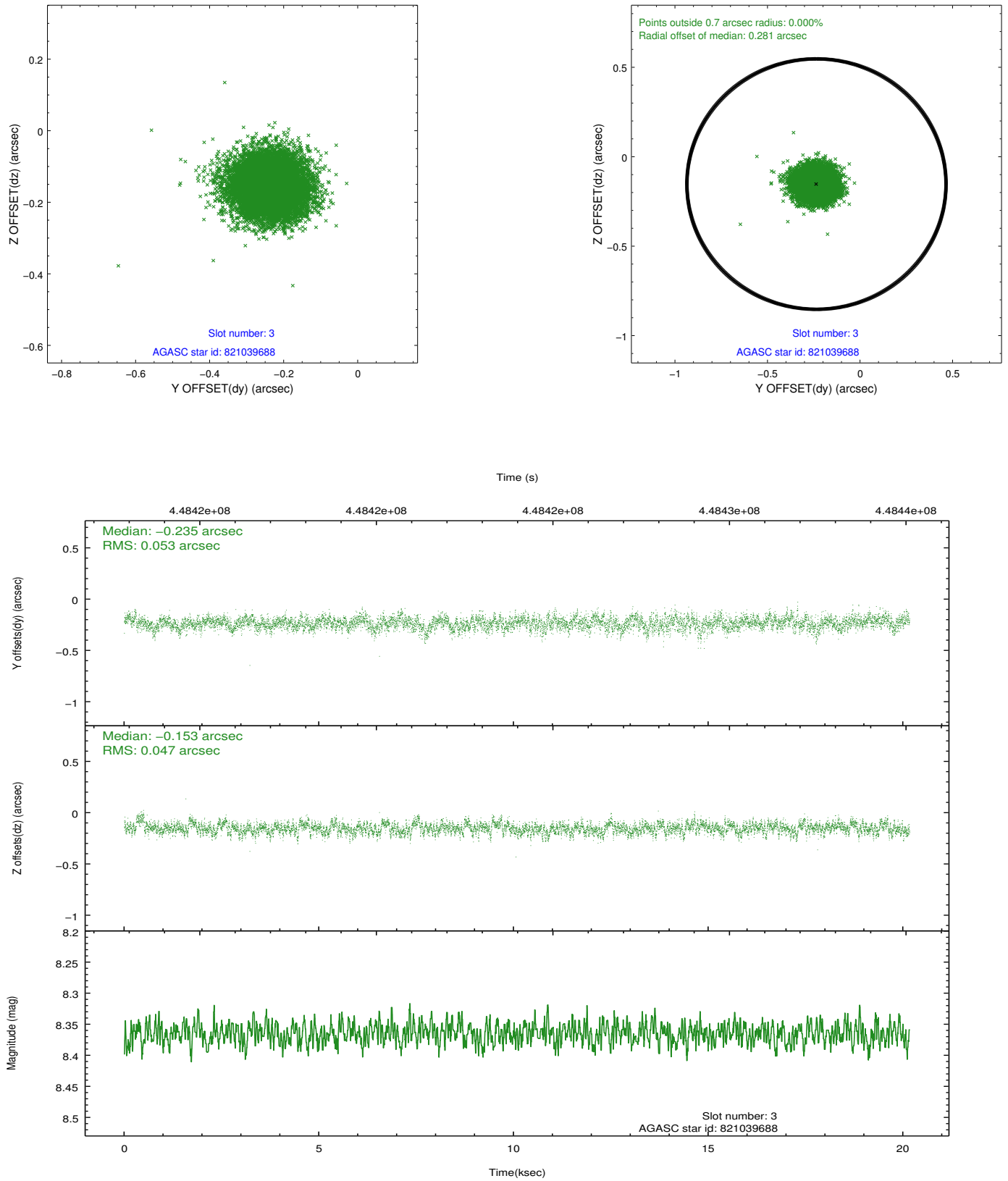


Slot Statistics

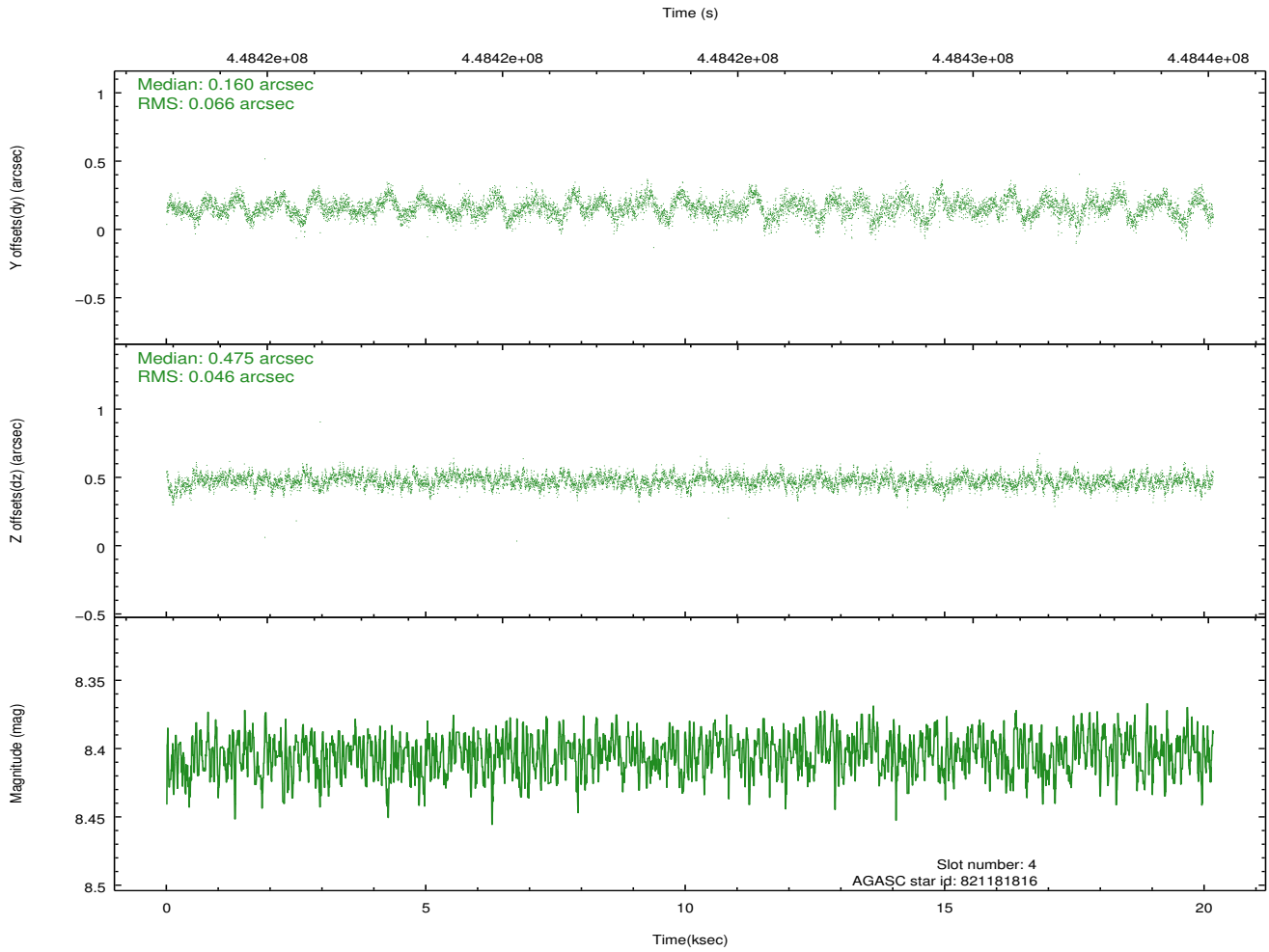
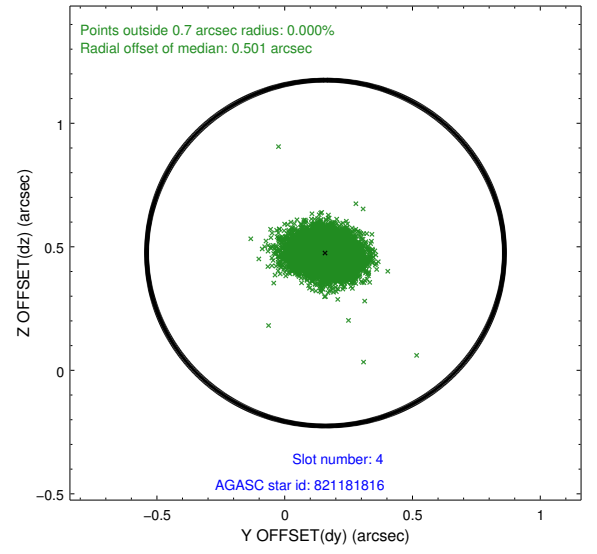
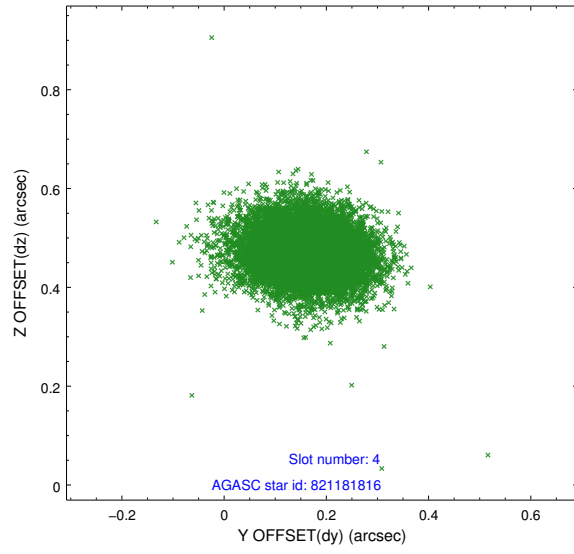
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.93	4919	-0.118	0.006	0.013	0.025	0.000000	0.000000	-768.65	-1737.47
1	FID	ACIS-S-4	7.01	4917	0.208	0.055	0.010	0.017	0.000000	0.000000	2144.89	170.84
2	FID	ACIS-S-5	7.04	4920	-0.122	-0.053	0.012	0.023	0.000000	0.000000	-1821.24	164.66
3	GUIDE	821039688	8.36	9819	-0.235	-0.153	0.075	0.123	273.919750	-15.893728	1781.15	1905.82
4	GUIDE	821181816	8.40	9832	0.160	0.475	0.085	0.140	274.847938	-16.750455	-1351.99	-1251.77
5	GUIDE	821707704	8.91	9793	0.400	0.032	0.072	0.124	274.330077	-16.988328	-2178.75	545.53
6	GUIDE	821035568	7.91	9834	-0.003	-0.306	0.077	0.132	273.834124	-16.831485	-1590.71	2245.59
7	GUIDE	821167336	9.22	9808	-0.322	-0.044	0.110	0.179	274.308749	-15.720060	2386.91	549.96

2.4 Star Slots

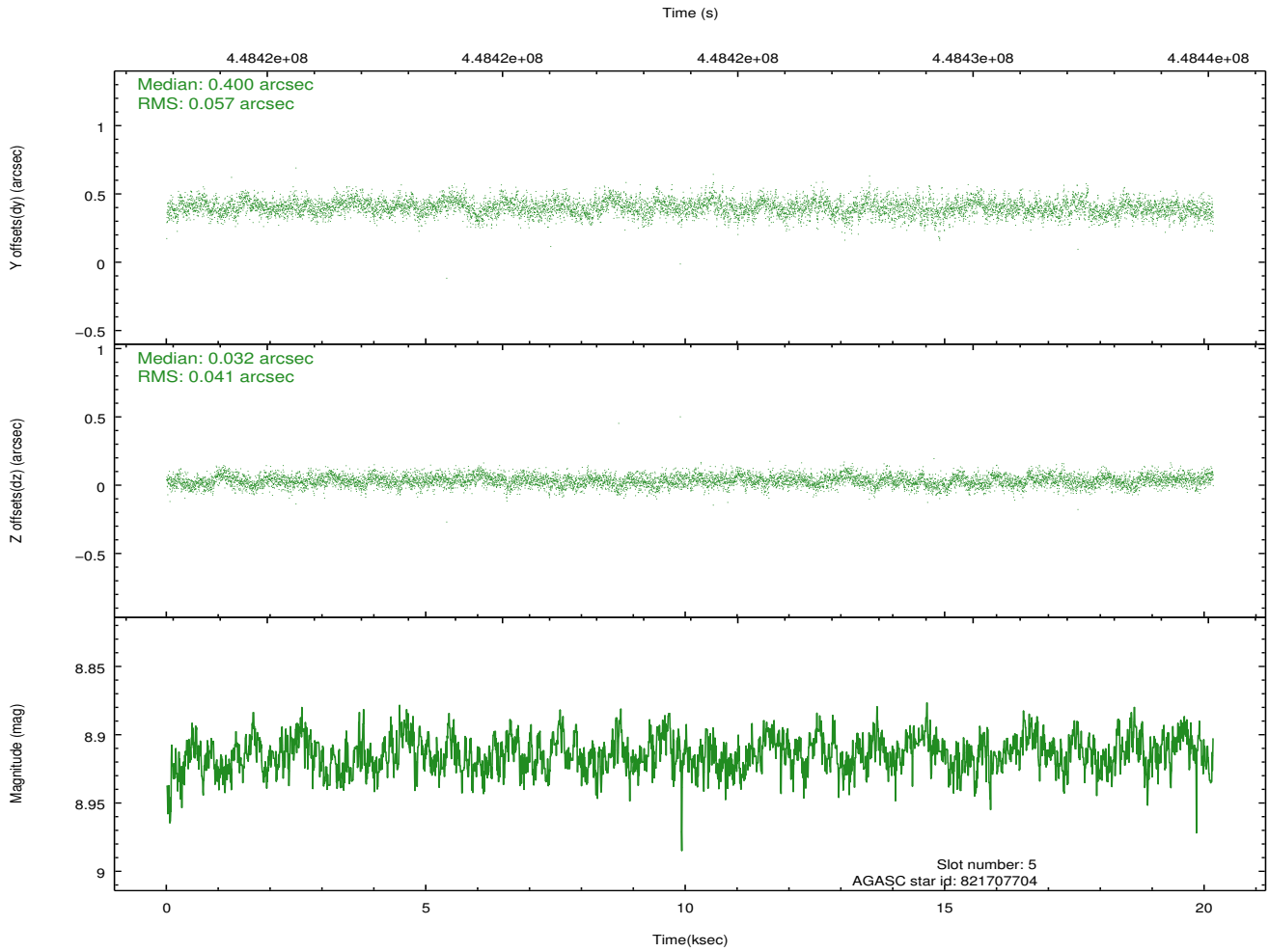
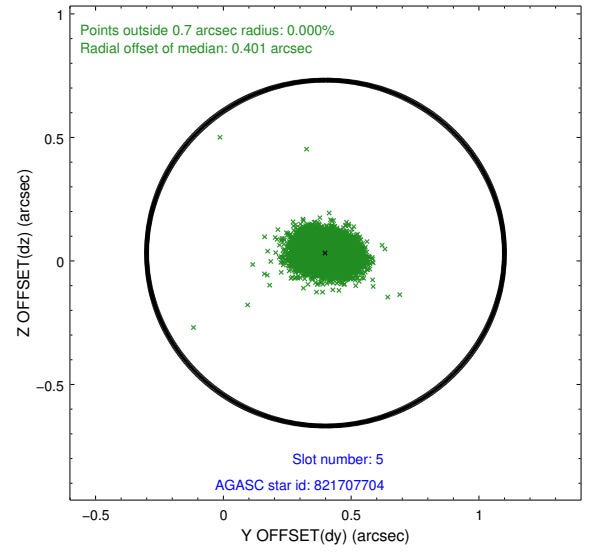
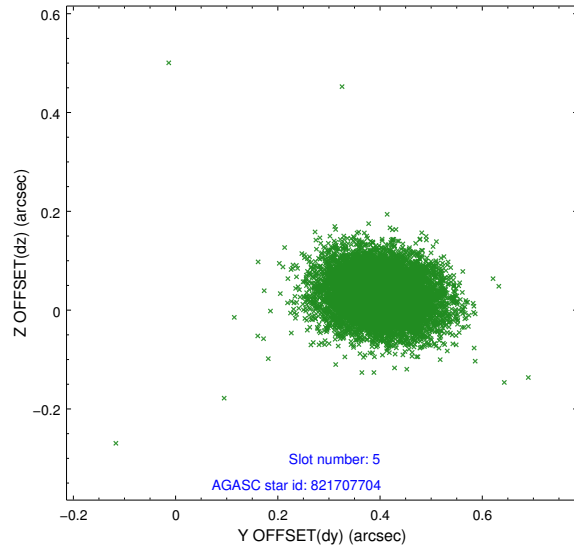
2.4.1 Slot 3



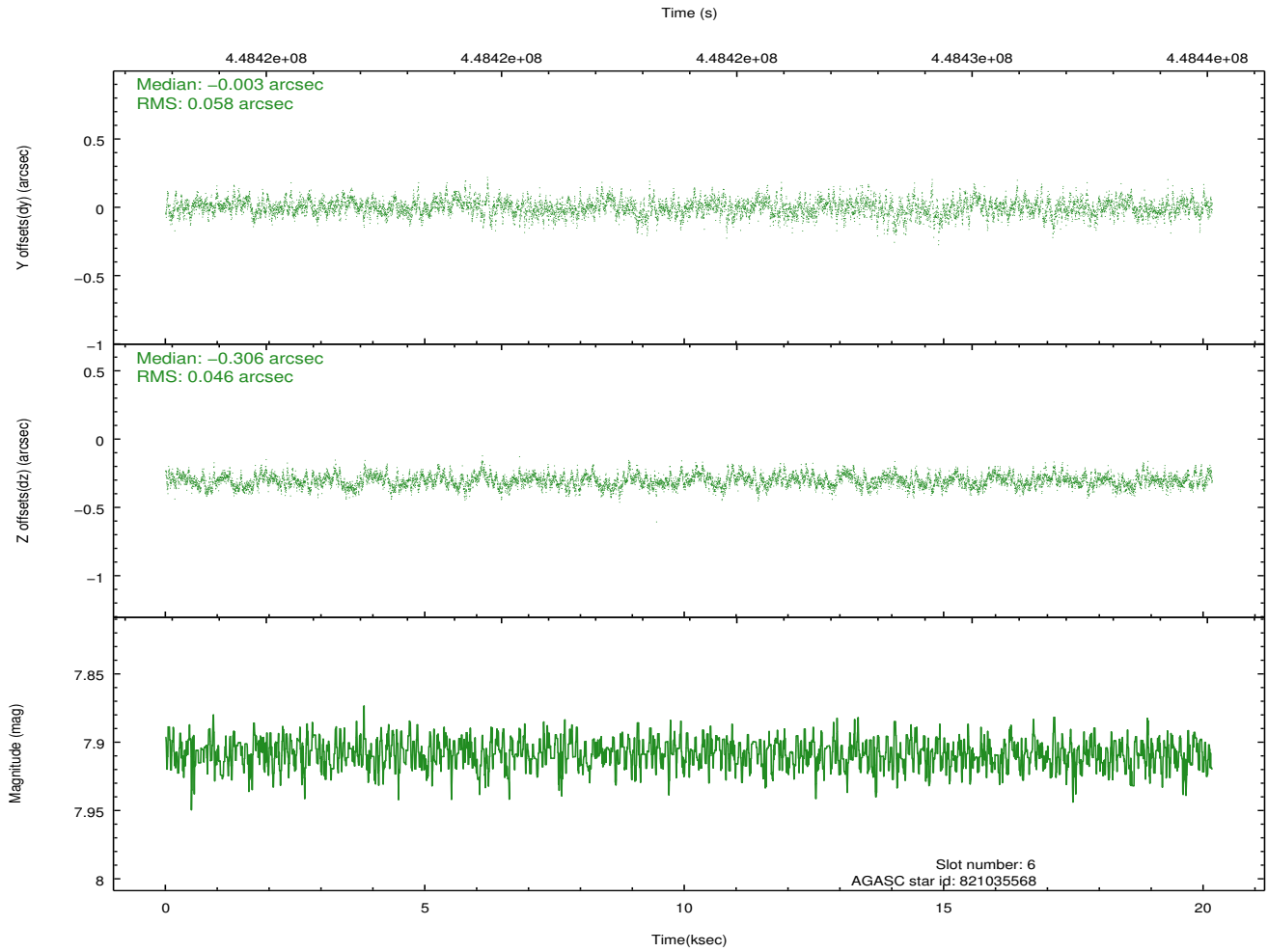
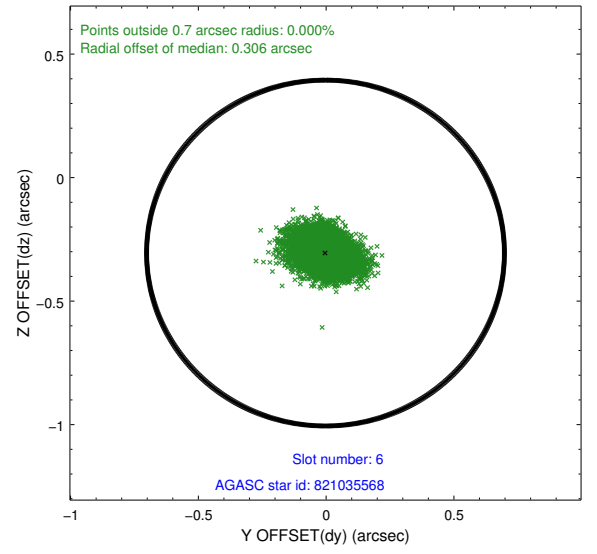
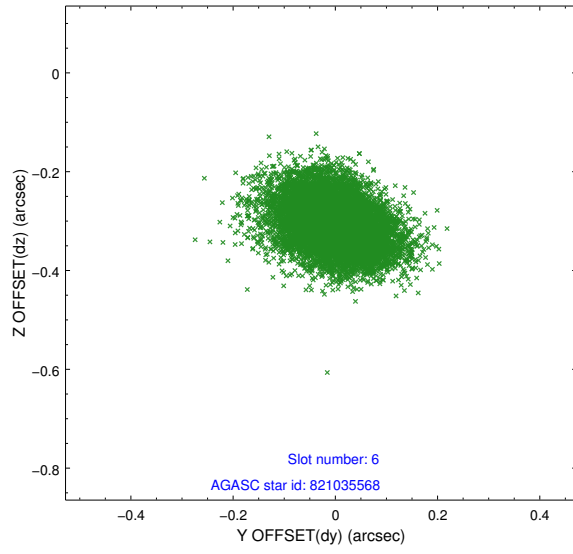
2.4.2 Slot 4



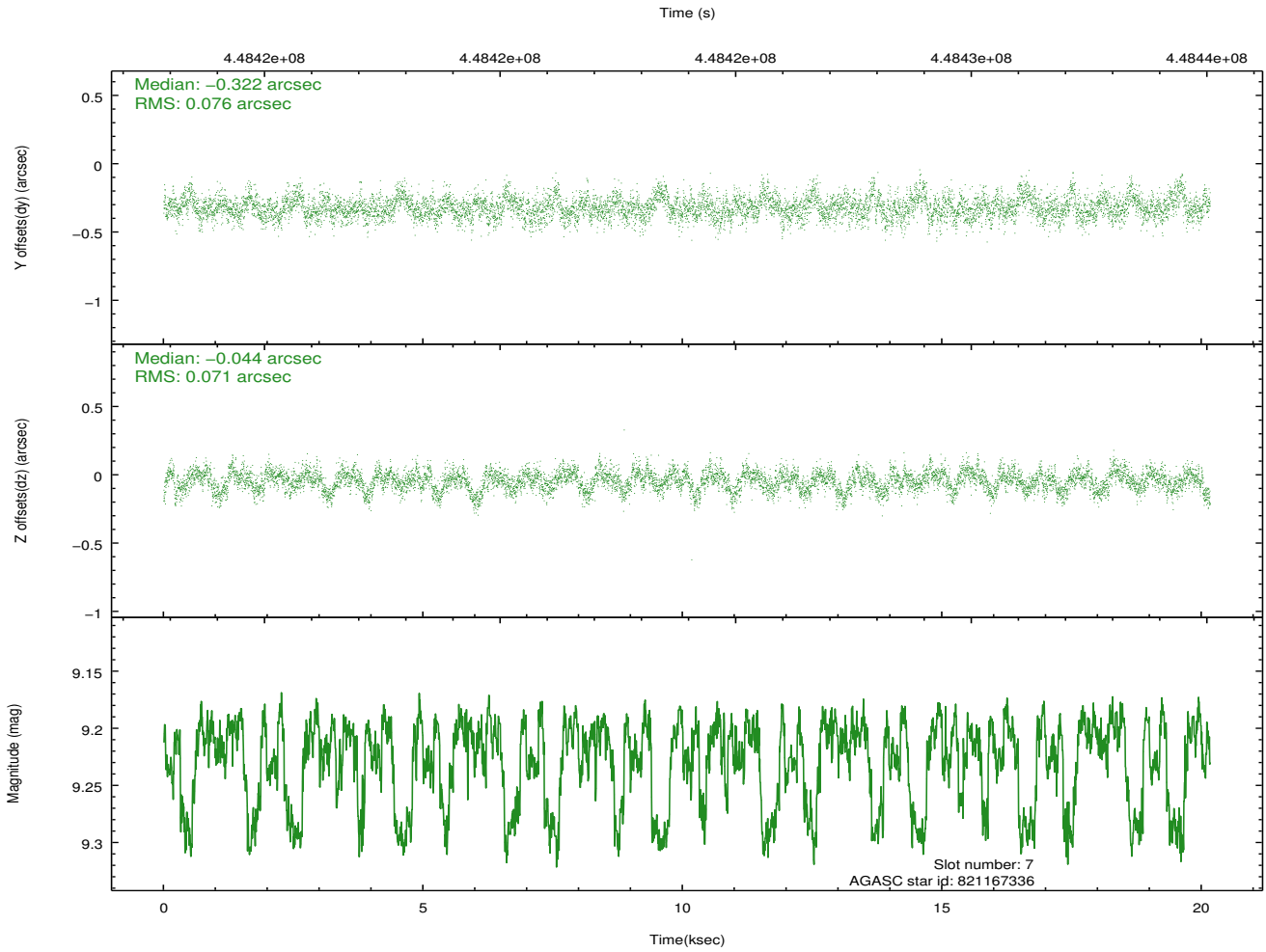
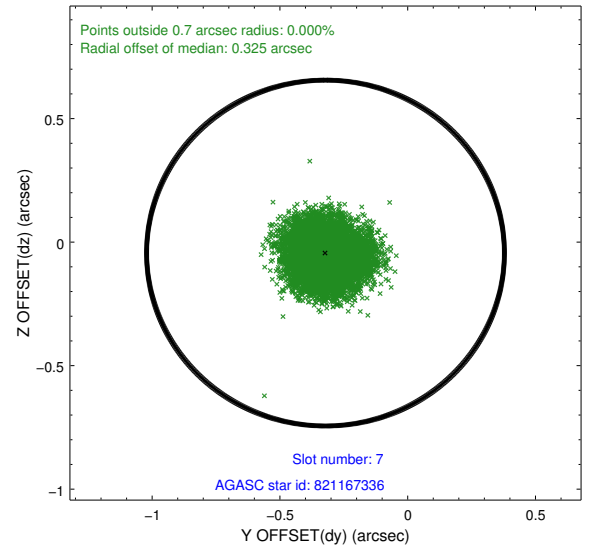
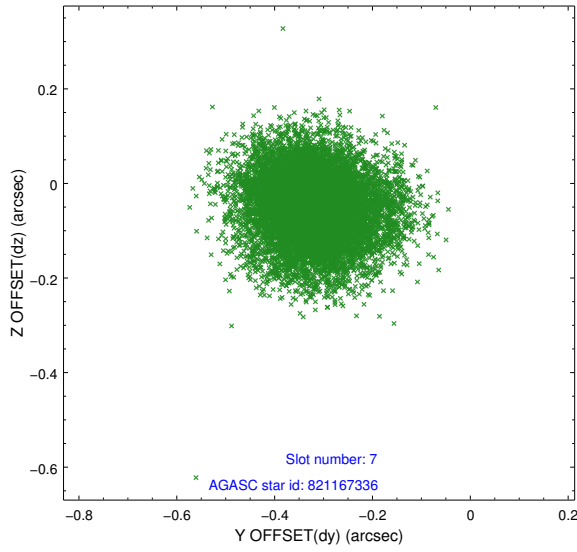
2.4.3 Slot 5



2.4.4 Slot 6

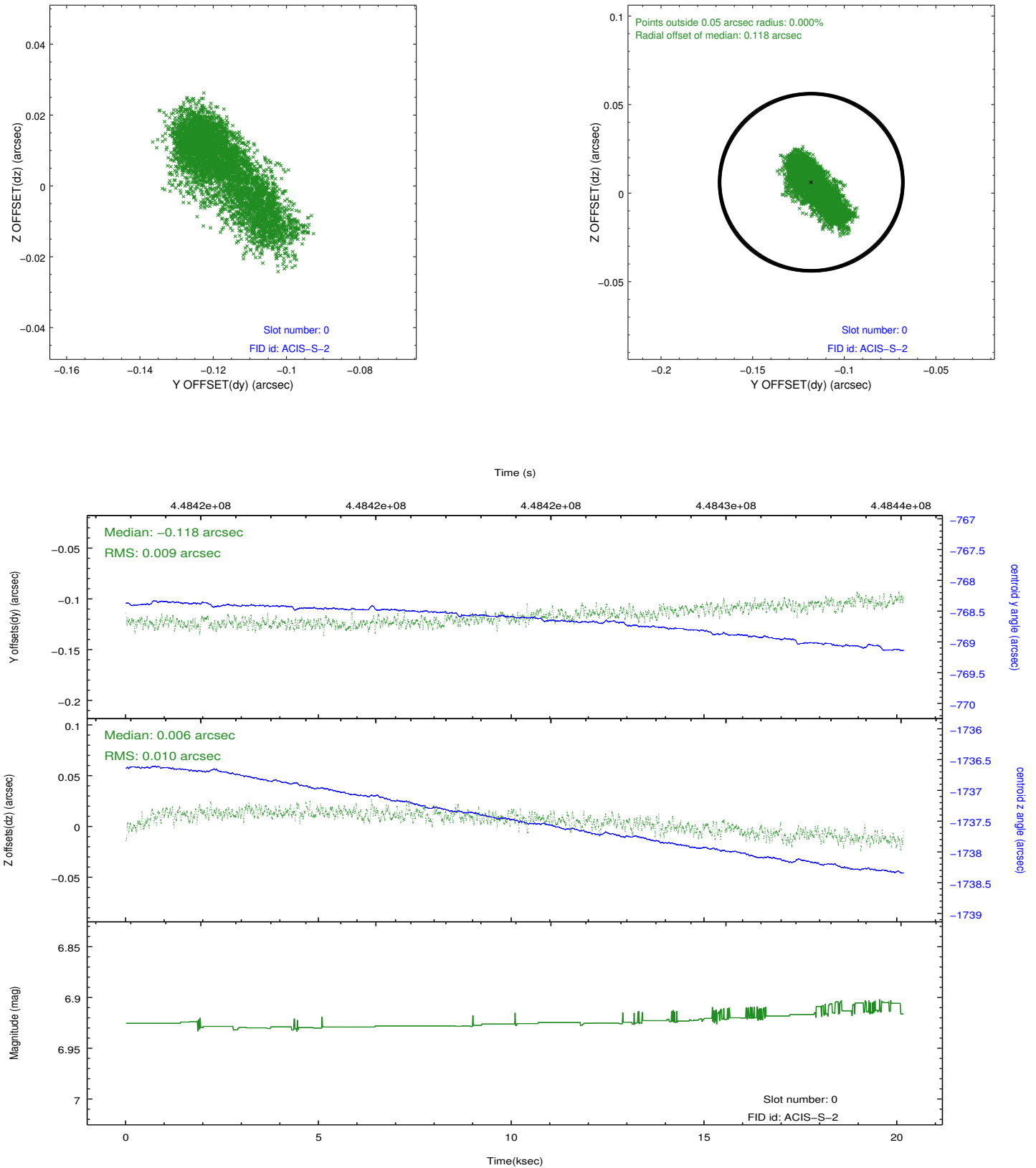


2.4.5 Slot 7

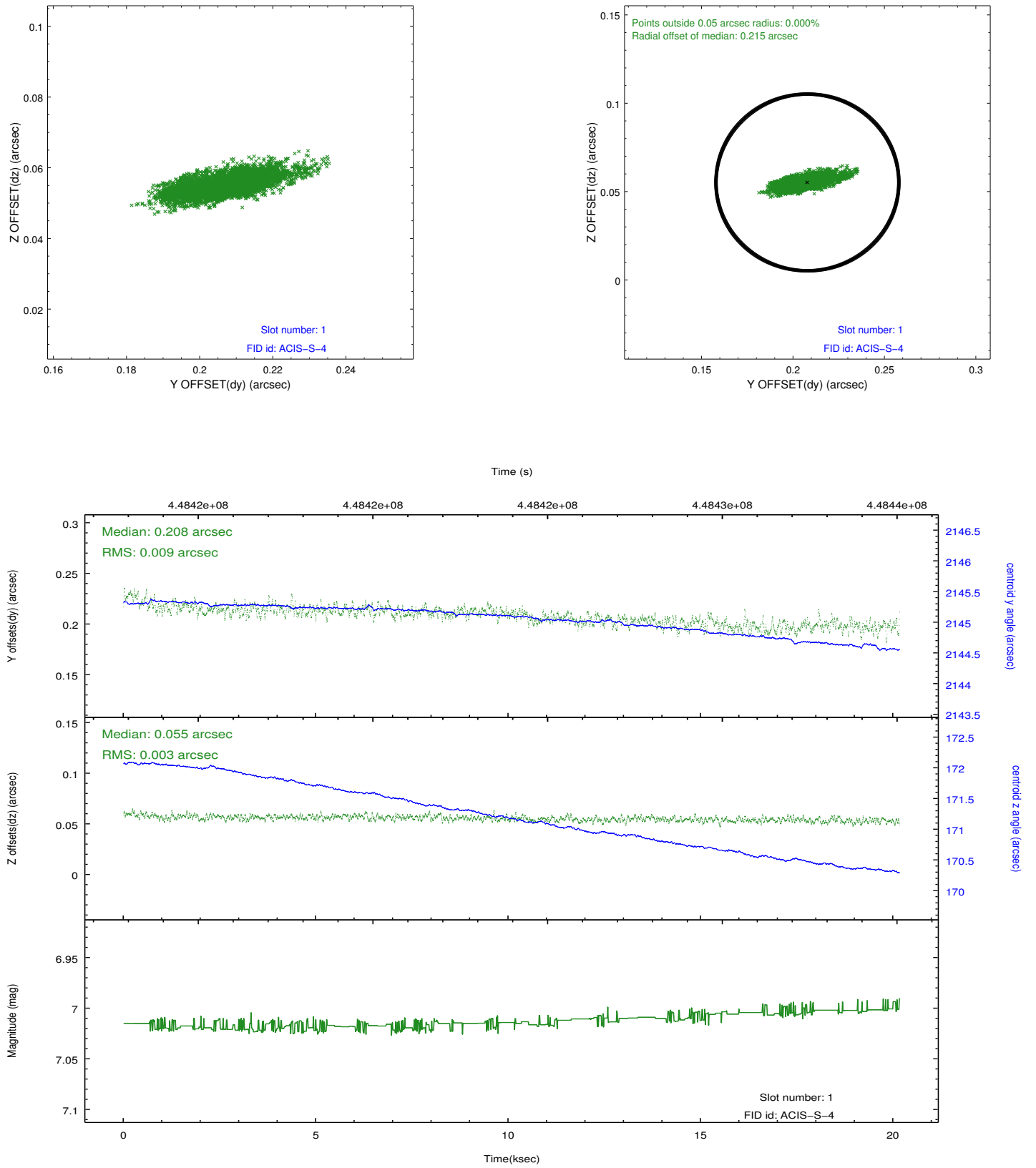


2.5 FID Slots

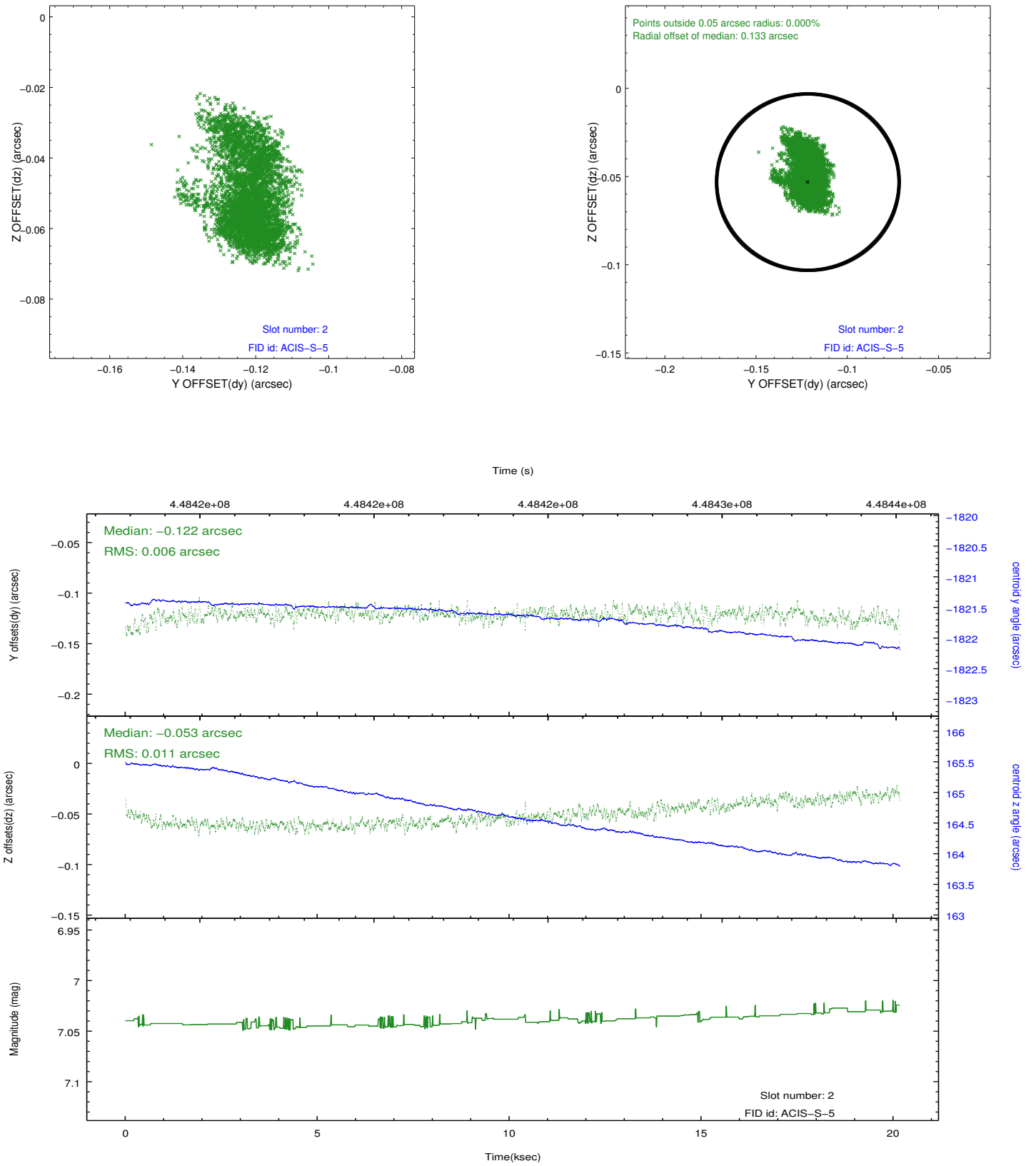
2.5.1 Slot 0



2.5.2 Slot 1

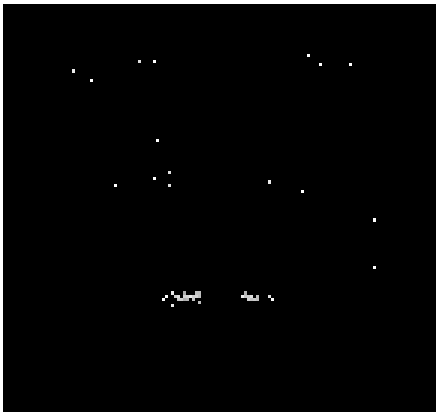


2.5.3 Slot 2

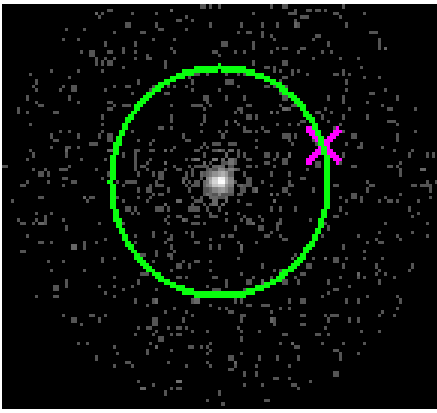


3 Gratings

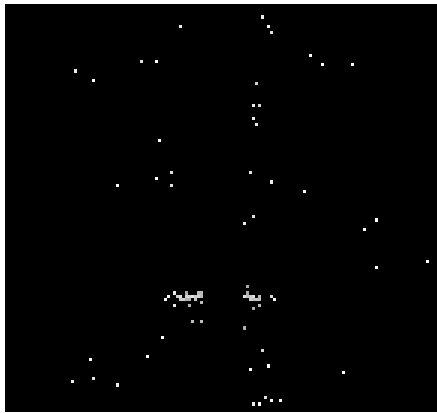
3.1 HEG Arm



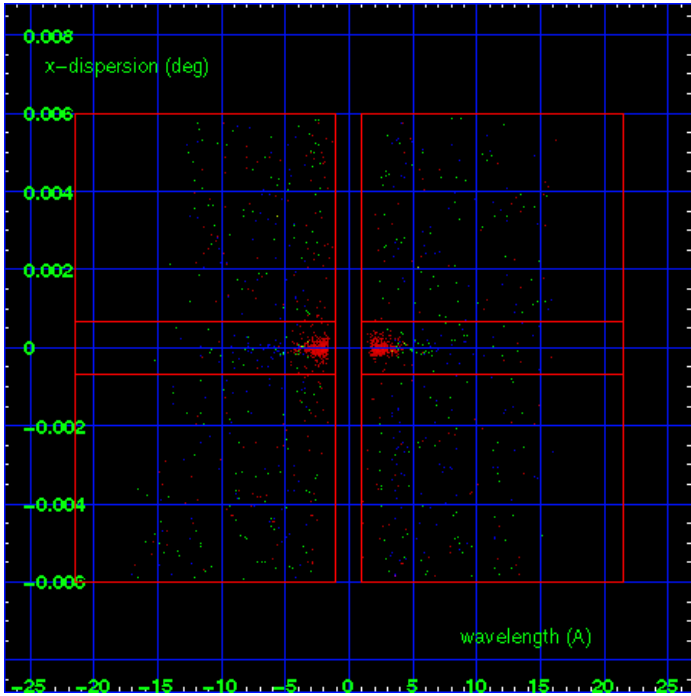
HEG Order Sort 123



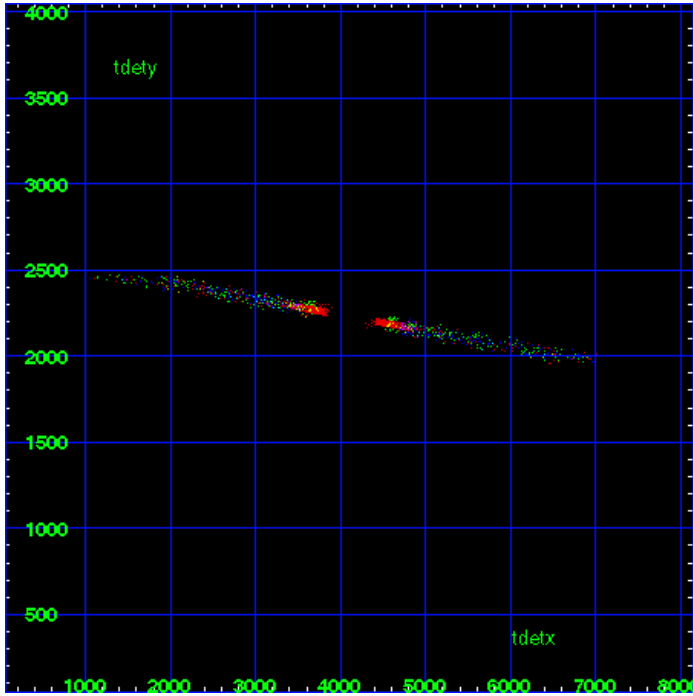
HEG Zero Order



HEG Order Sort ALL

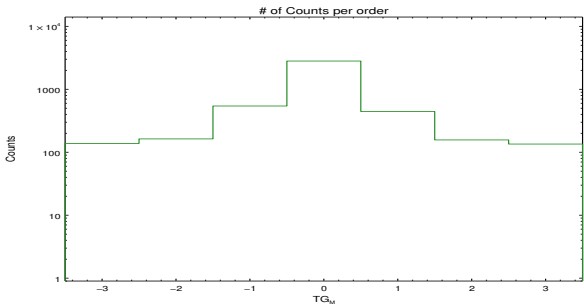


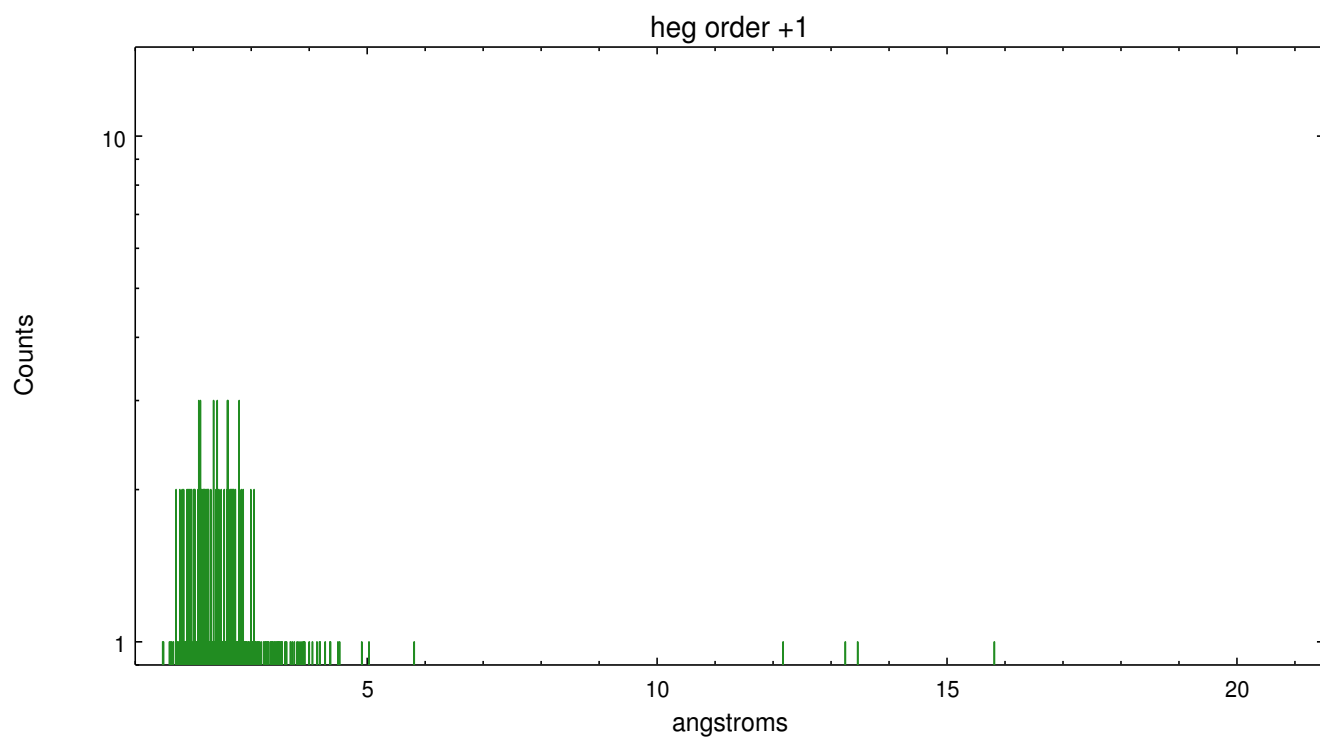
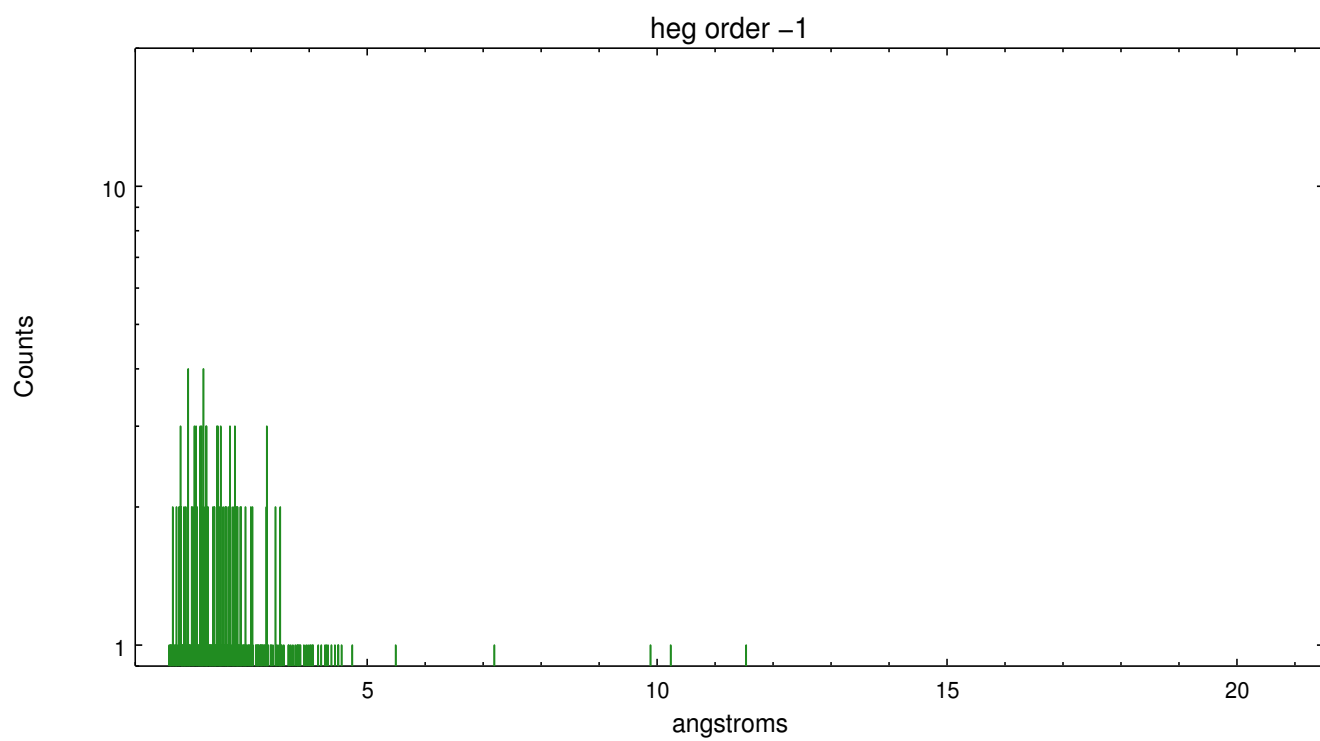
Spot Image HEG



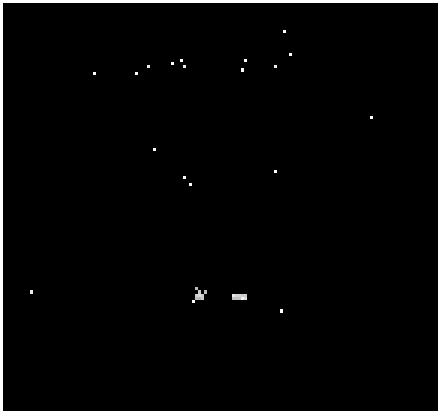
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	138	163	543	2811	444	157	135

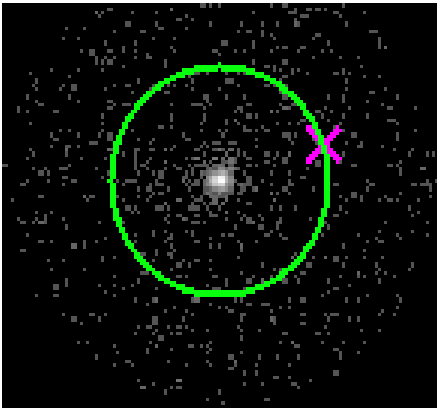




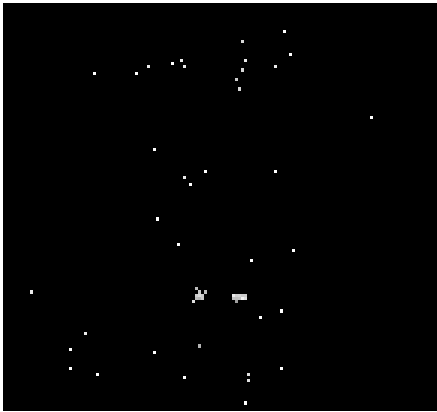
3.2 MEG Arm



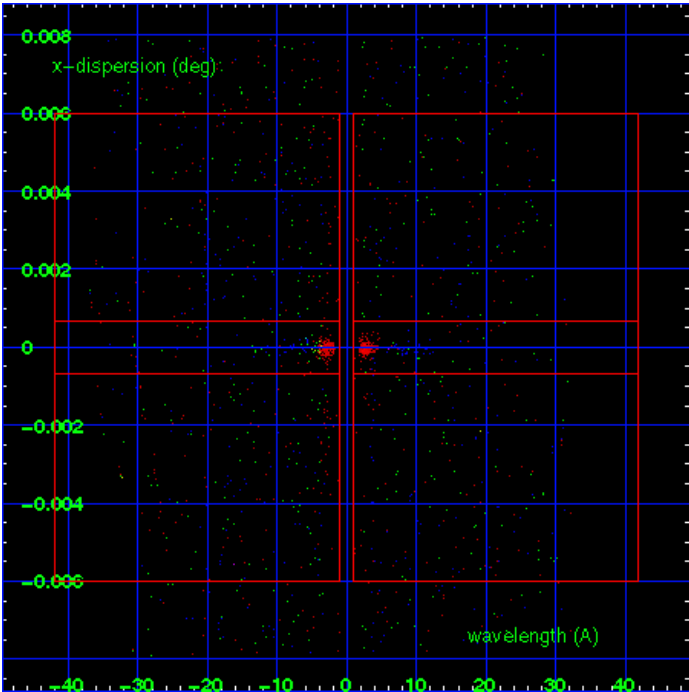
MEG Order Sort 123



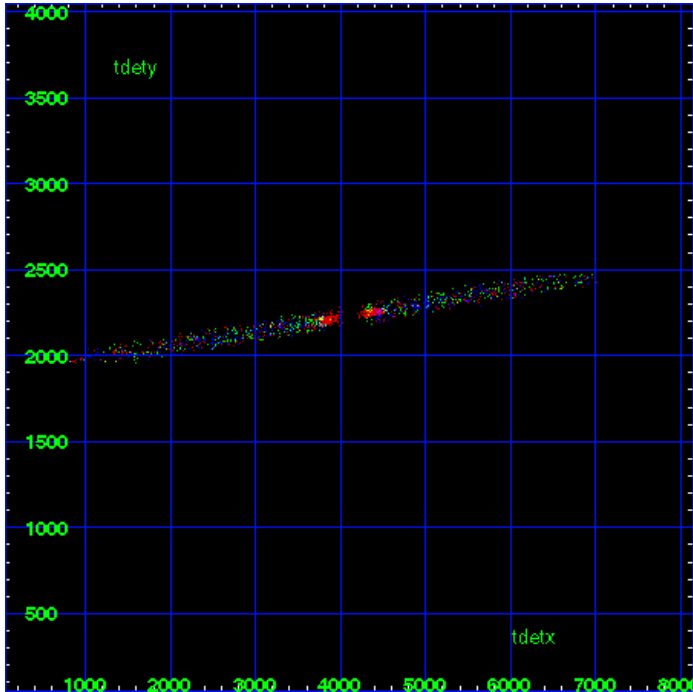
MEG Zero Order



MEG Order Sort ALL

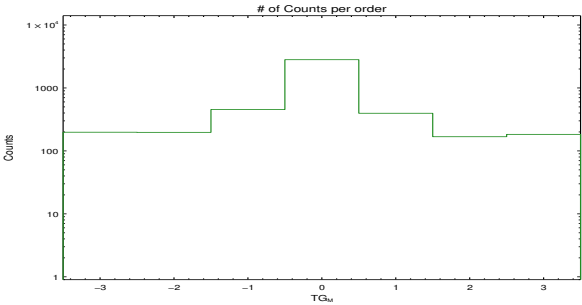


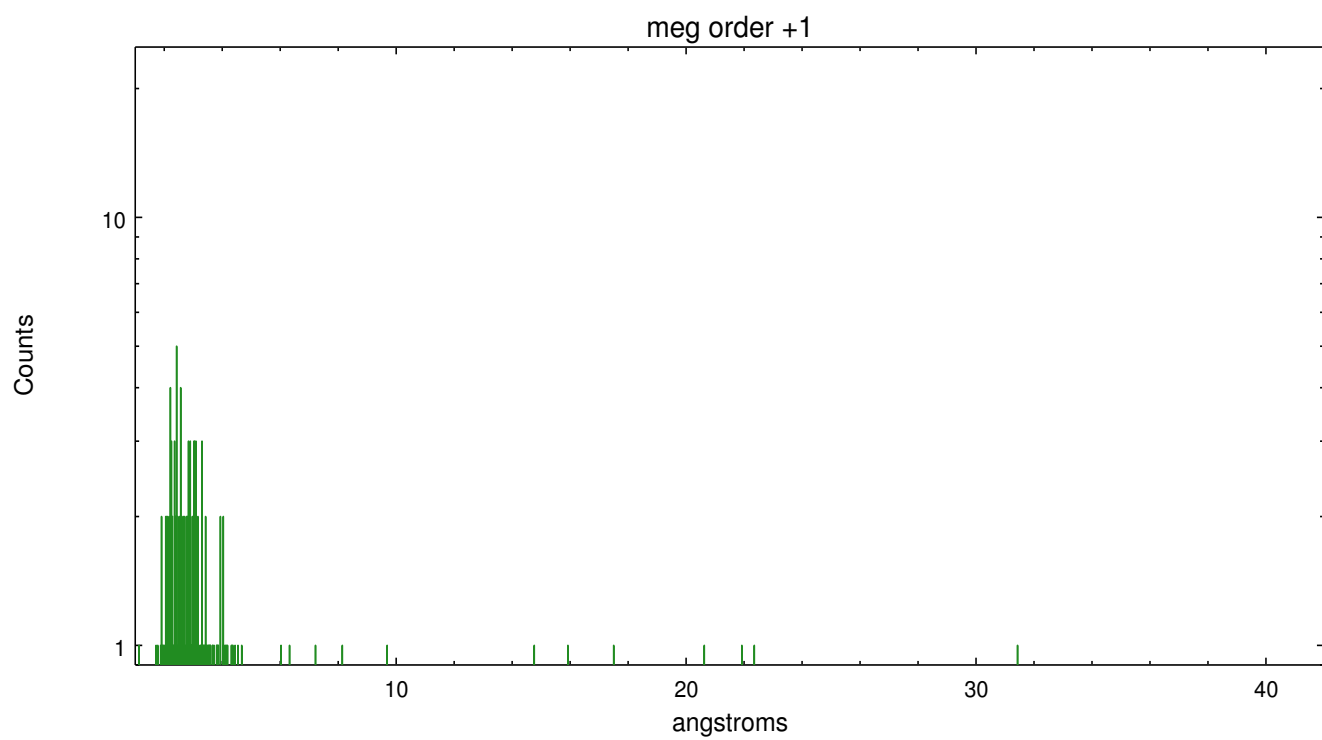
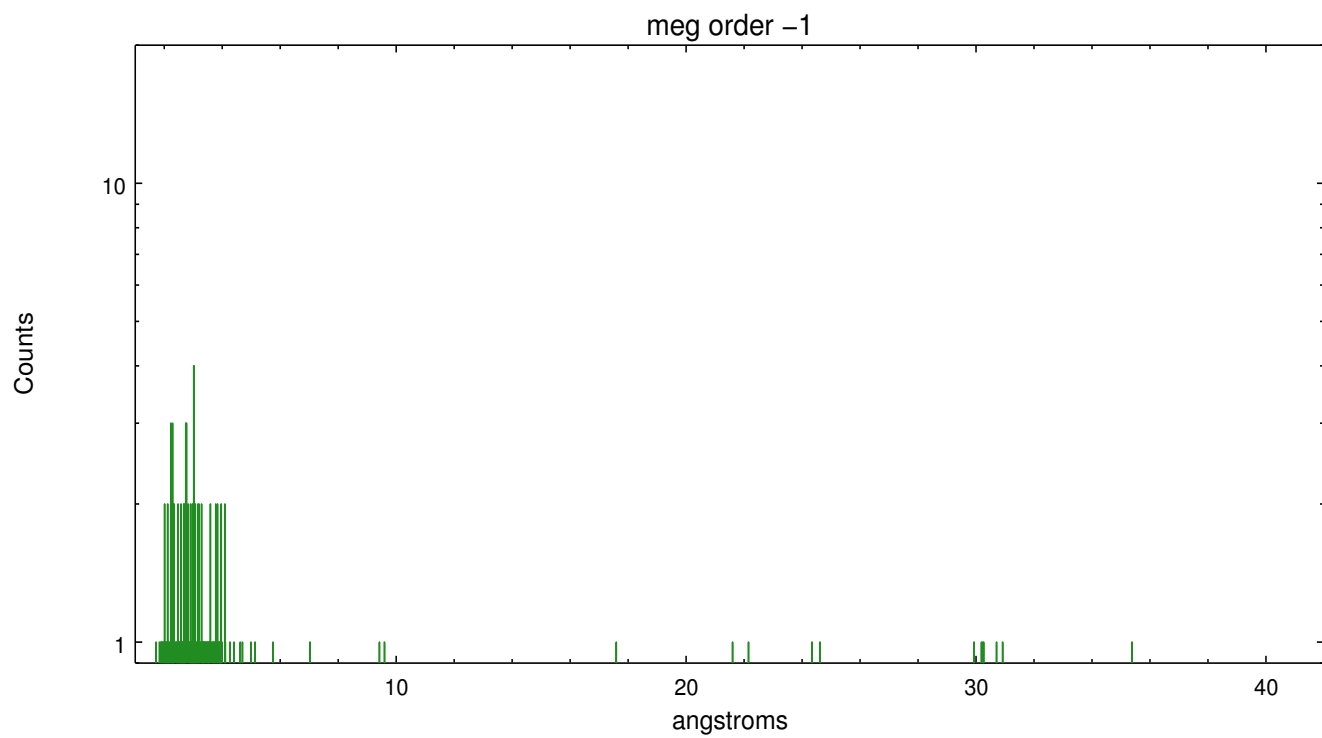
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	198	197	454	2811	396	168	183





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.03.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.076794084489

A.2 Comments