

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7490 - L2 Version 2
Chandra X-Ray Center

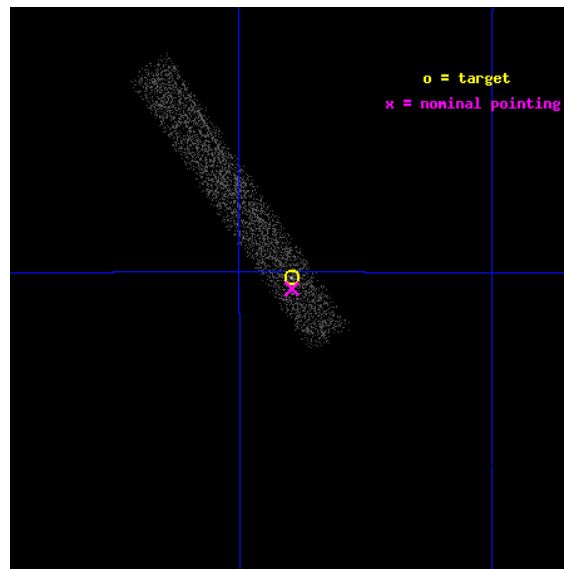
L2 Processing Date : Apr 29 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	Gratings	17
3.1	HEG Arm	17
3.2	MEG Arm	19
A	Summary	21
A.1	Status	21
A.2	Comments	21

1 Front

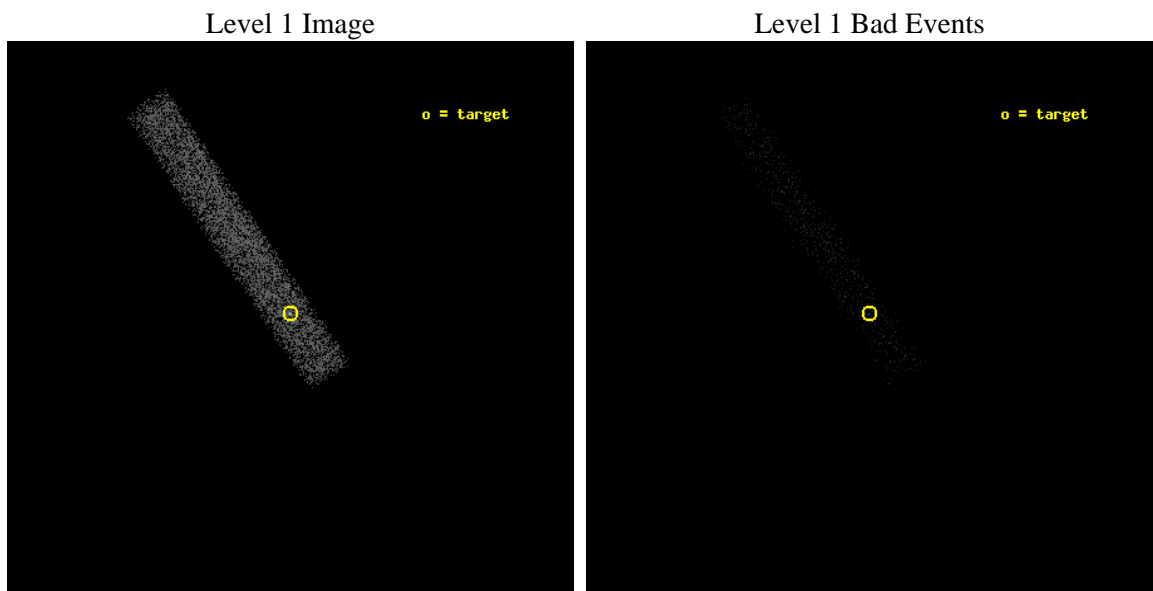
seq_num	400600	Sequence number
obs_id	7490	Observation id
title	Chandra observations of the 2007 PSR B1259-63 periastron passage.	
observer	Dr Maria Chernyakova	Principal investigator
object	PSR B1259-63	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	195.698333	Observer's specified target RA [deg]
dec_targ	-63.83575	Observer's specified target Dec [deg]
ra_nom	195.69801787139	Nominal RA [deg]
dec_nom	-63.84060473969	Nominal Dec [deg]
roll_nom	235.82379574803	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5153.1996928453	Sum of GTIs [s]
livetime	4673.6801132281	Livetime [s]
ontime7	5153.1996928453	Sum of GTIs [s]
l2events	4949	Number of level 2 events



2 OBI

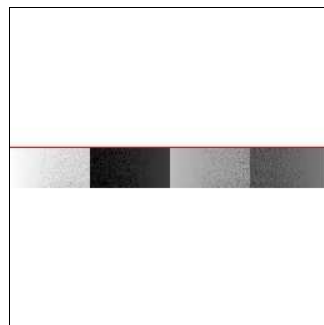
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5153.1996928453	Sum of GTIs [s]
caldsver	4.4.9	 	ontime7	5153.1996928453	Sum of GTIs [s]
date	2012-04-29T02:26:45	Date and time of file creation	l1events	11949	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

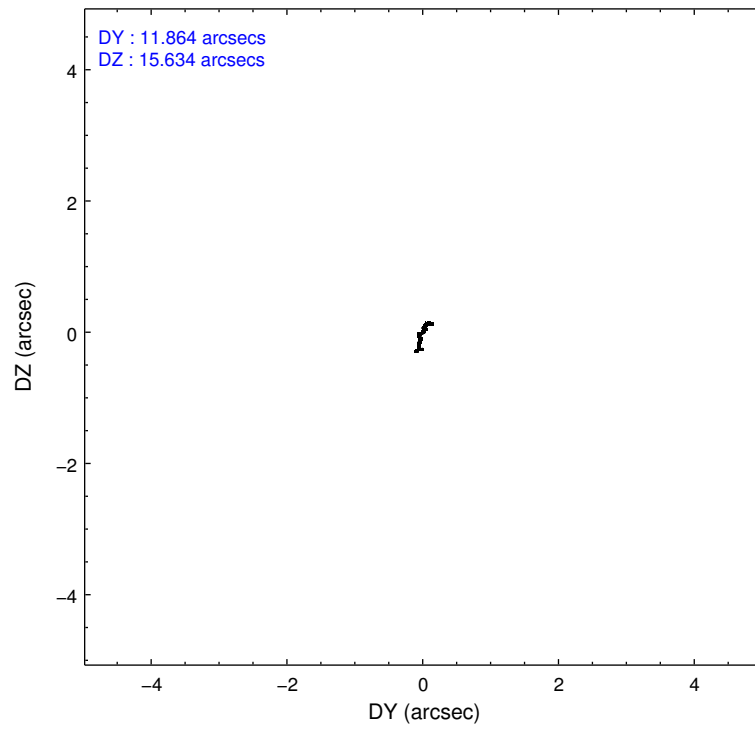
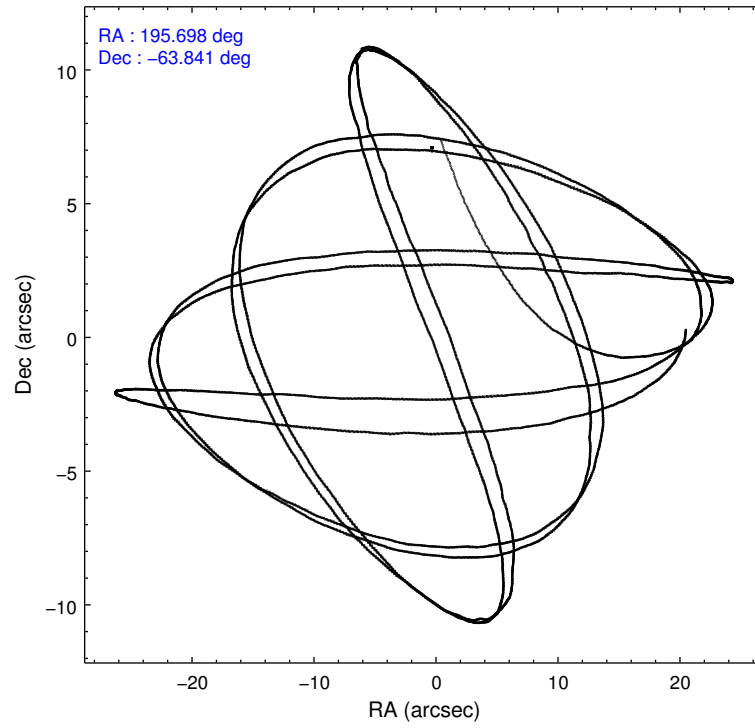
	ccd 7
level 1 events	11949
rejected events	6799
rejected %	56%

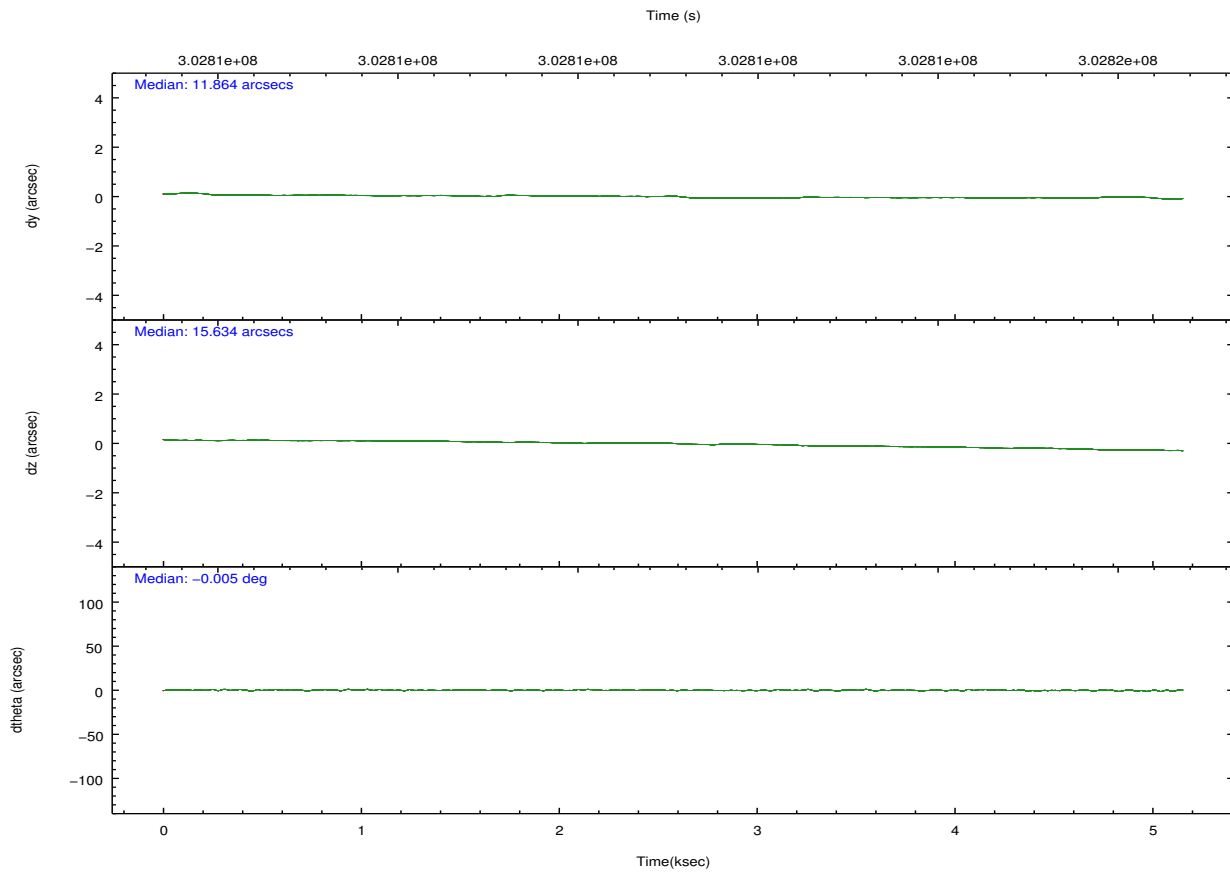
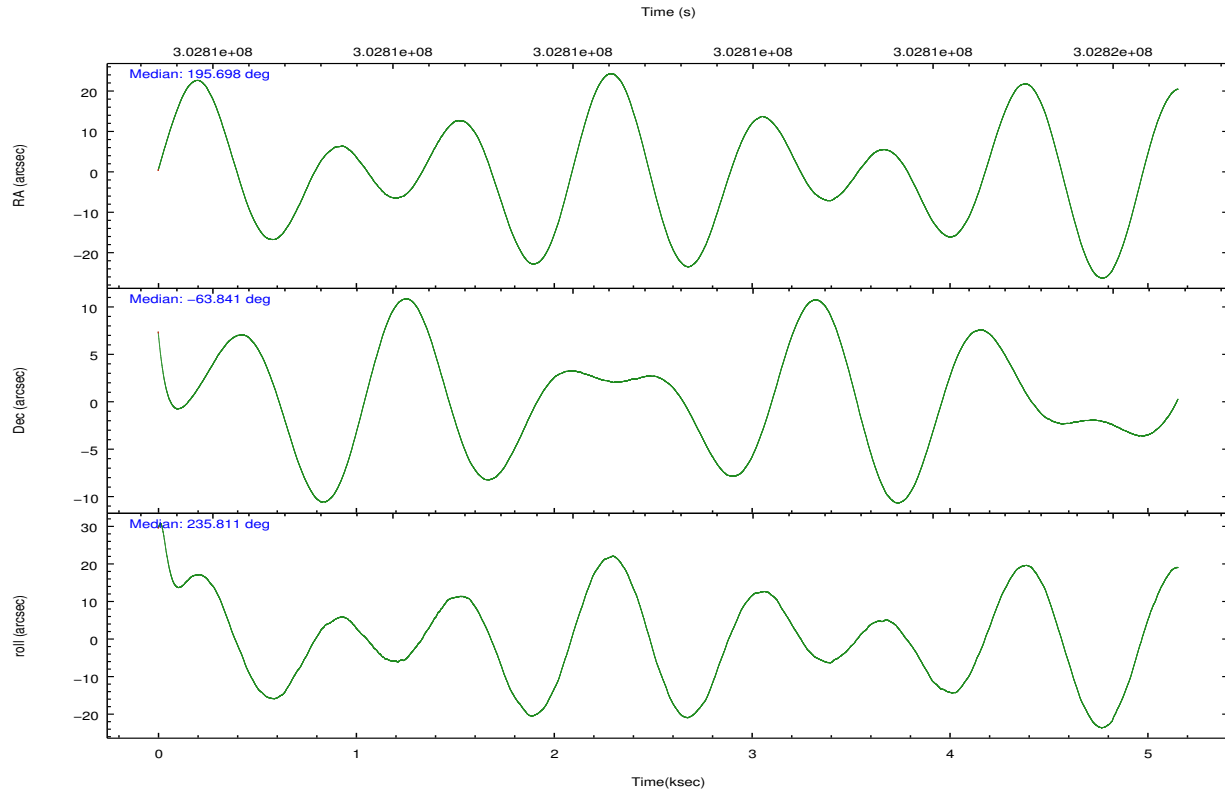
	ccd 7
grade 0 events	747
	6%
grade 1 events	16
	0%
grade 2 events	1252
	10%
grade 3 events	749
	6%
grade 4 events	710
	5%
grade 5 events	1033
	8%
grade 6 events	2634
	22%
grade 7 events	4808
	40%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	195.701534	195.6980178713899	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-63.813288	-63.84060473969001	Subarray start row	449	449
[deg] Pointing Roll	235.670251	235.8237957480283	Subarray row count	128	128
[s] Window start time (MET)	302745665.184000	302745665.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	303004865.184000	303004865.184000	[s] Primary exposure time	0.000000	0.4
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	302810105.184000	302808856.42692			
Observation start date	2007-08-06T17:54:00	2007-08-06T17:34:16			
[s] Observation end time (MET)	302815105.184000	302815896.12726			
Observation end date	2007-08-06T19:17:20	2007-08-06T19:31:36			
Read mode	TIMED	TIMED			

2.3 Aspect



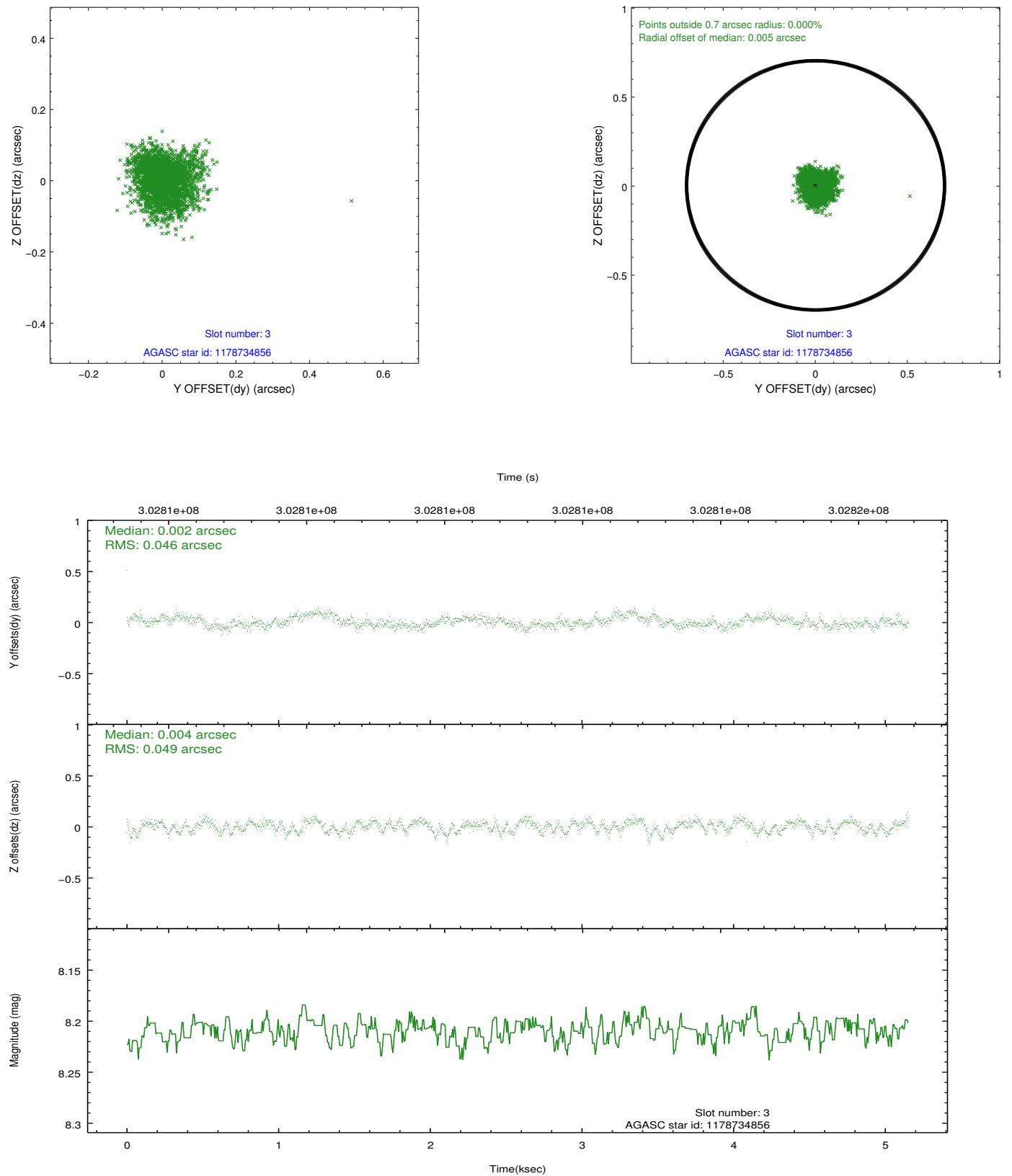


Slot Statistics

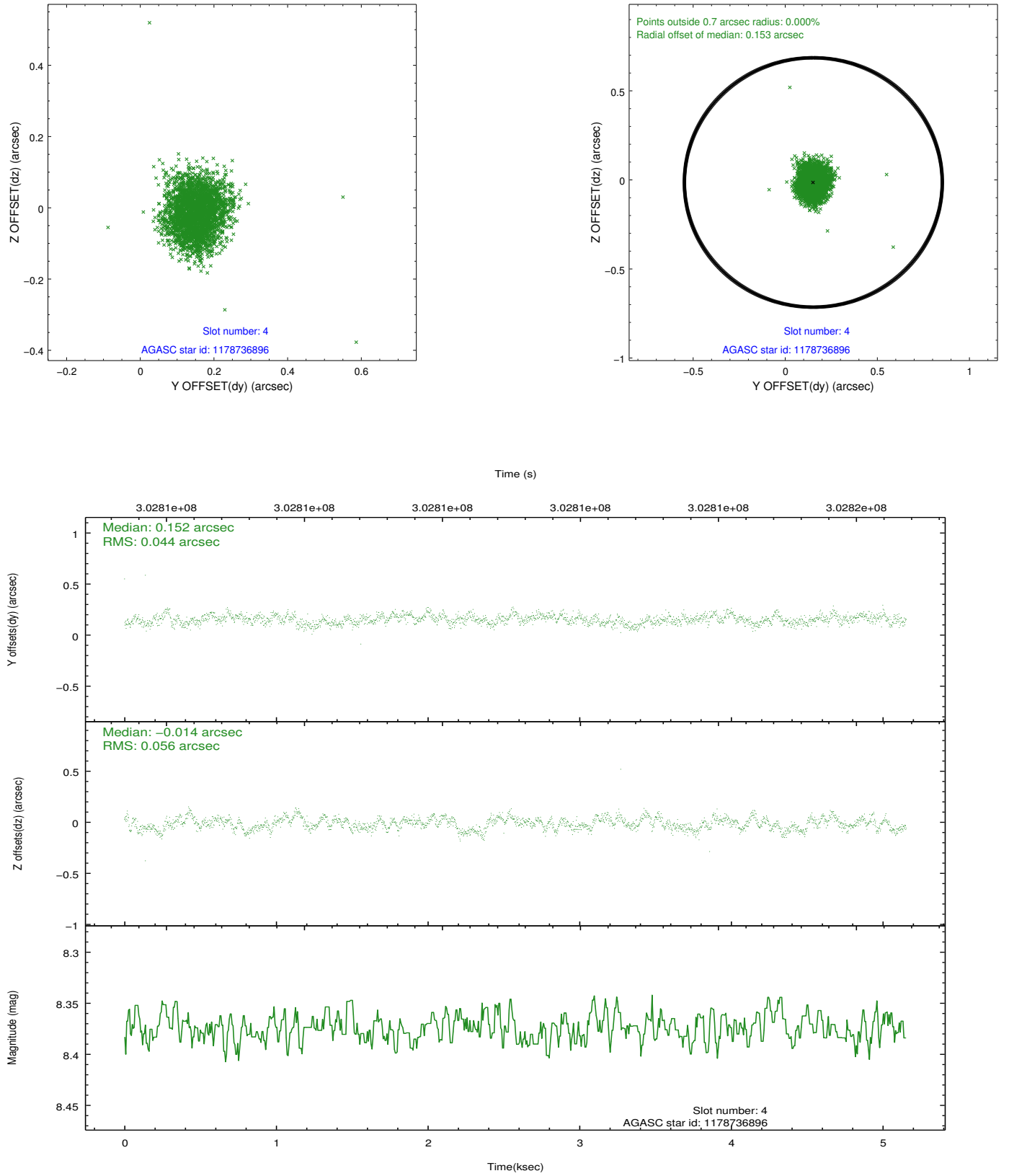
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1258	-0.053	-0.030	0.007	0.012	0.000000	0.000000	-764.77	-1737.04
1	FID	ACIS-S-4	7.19	1258	0.146	0.034	0.005	0.010	0.000000	0.000000	2148.14	170.33
2	FID	ACIS-S-5	7.22	1257	-0.124	0.005	0.007	0.012	0.000000	0.000000	-1816.20	165.25
3	GUIDE	1178734856	8.21	2514	0.002	0.004	0.071	0.112	195.759625	-63.178913	-1938.85	-1210.29
4	GUIDE	1178736896	8.37	2514	0.152	-0.014	0.074	0.117	194.755483	-63.640622	348.44	-1593.23
5	GUIDE	1178735320	8.43	2515	-0.276	-0.108	0.064	0.110	195.346776	-62.925070	-2311.04	-2283.68
6	GUIDE	1179259632	7.83	2514	0.123	-0.007	0.055	0.090	194.903869	-64.371399	2367.30	109.38
7	GUIDE	1179266488	7.11	2513	-0.006	0.123	0.060	0.095	196.258505	-64.441584	1383.97	1992.58

2.4 Star Slots

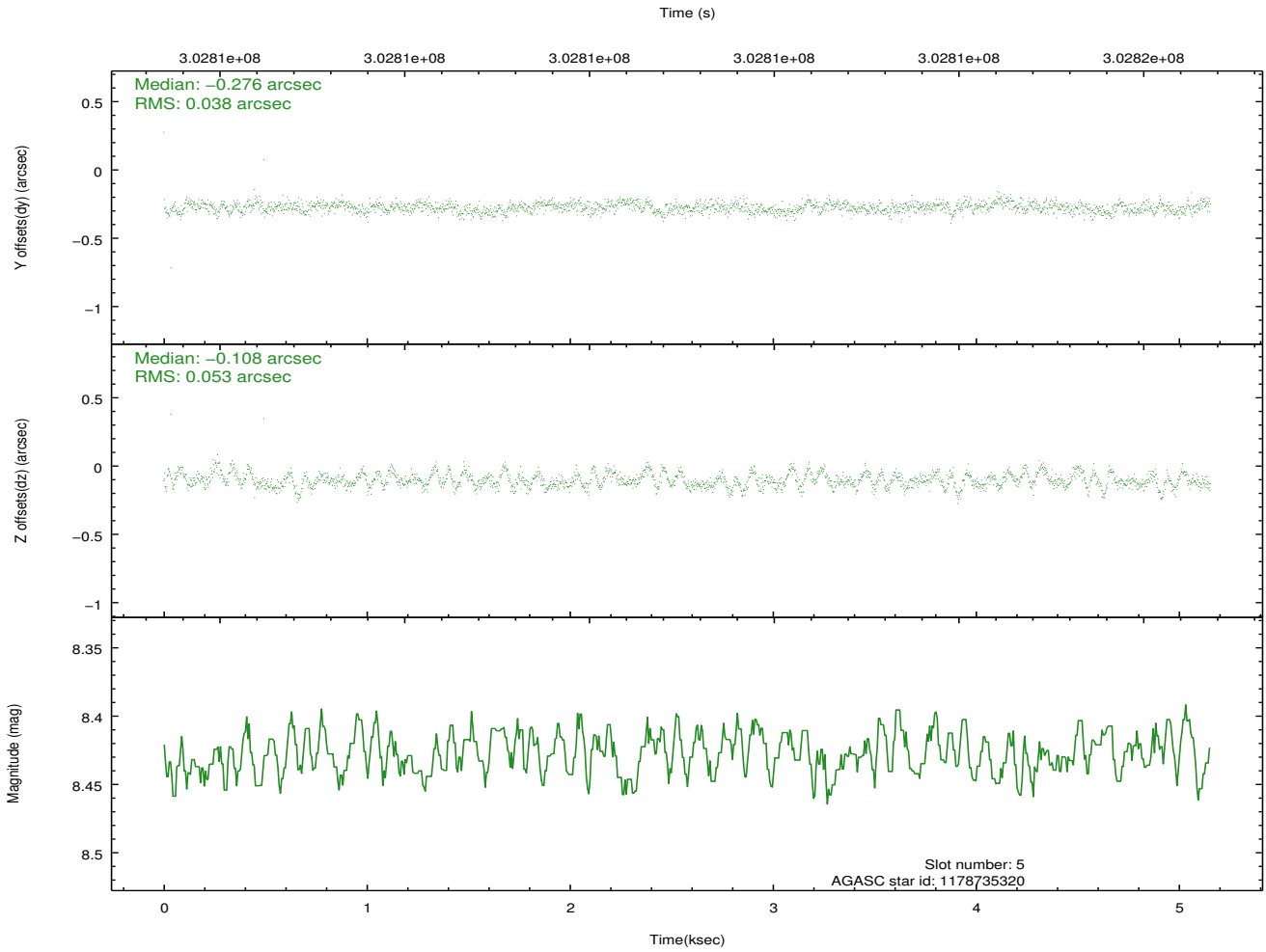
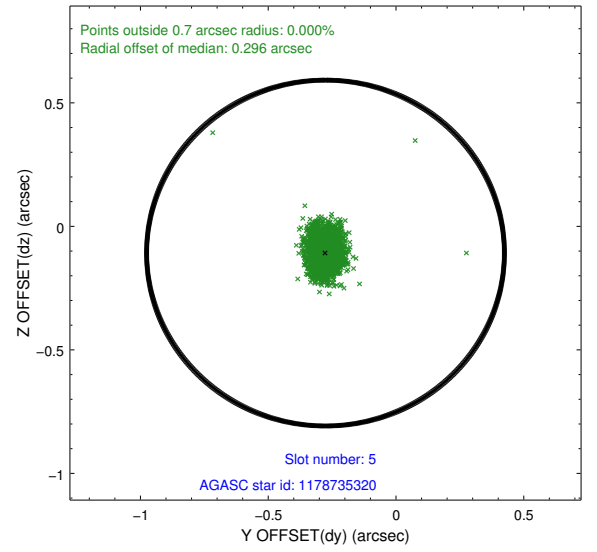
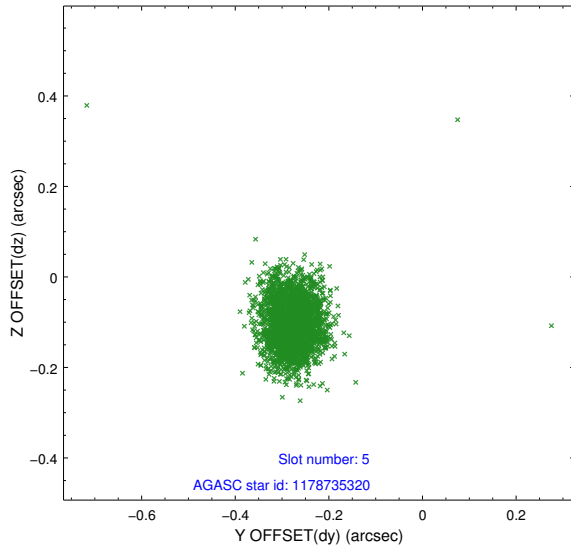
2.4.1 Slot 3



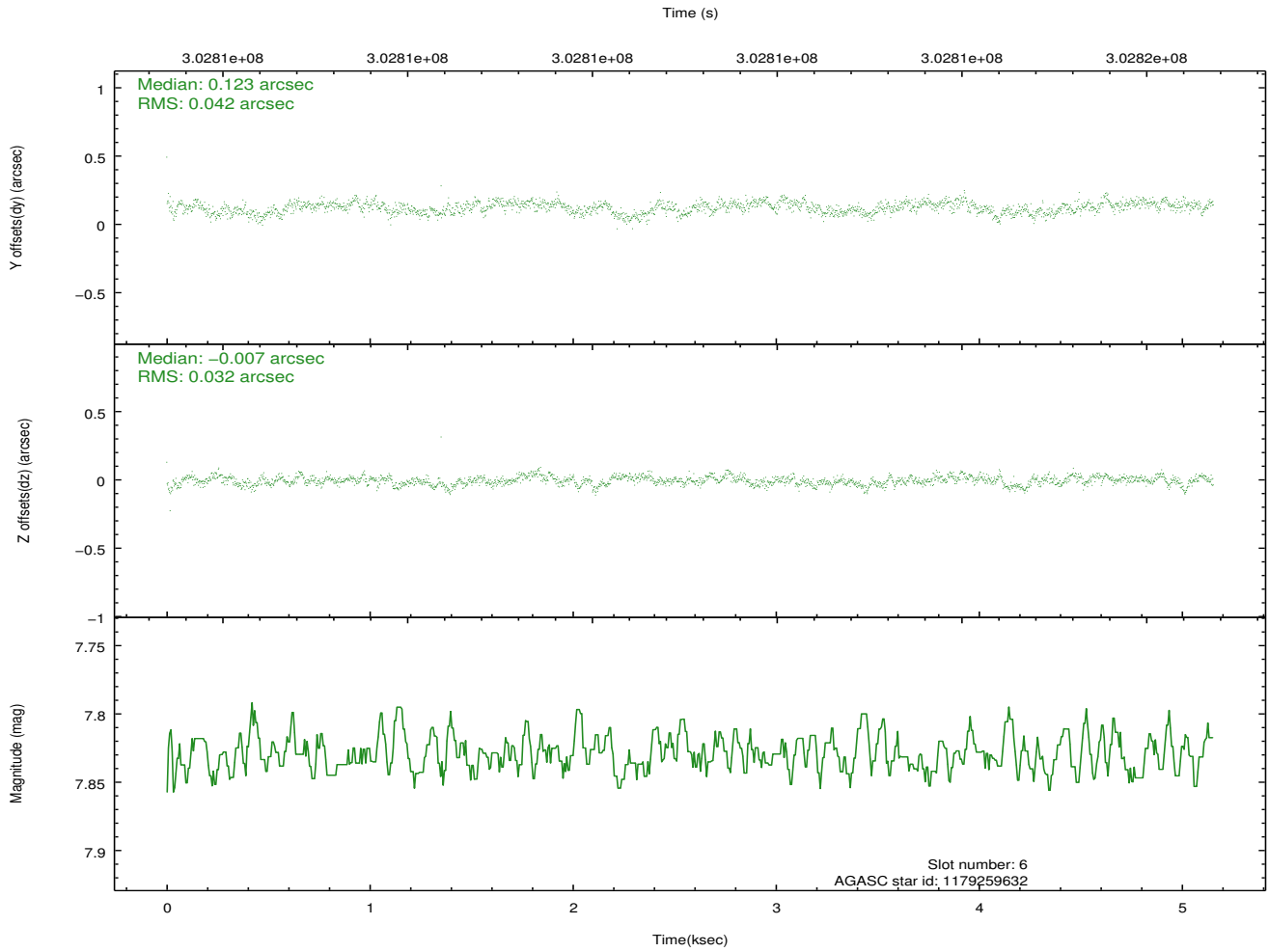
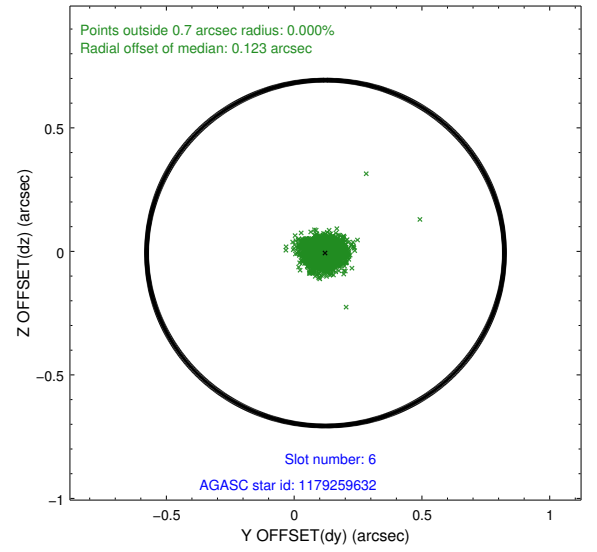
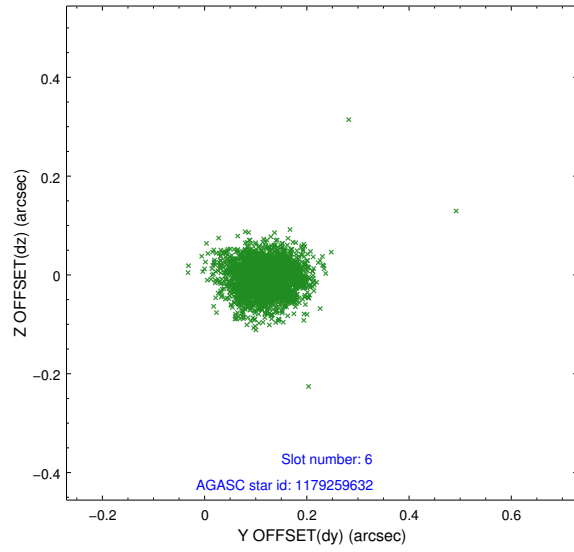
2.4.2 Slot 4



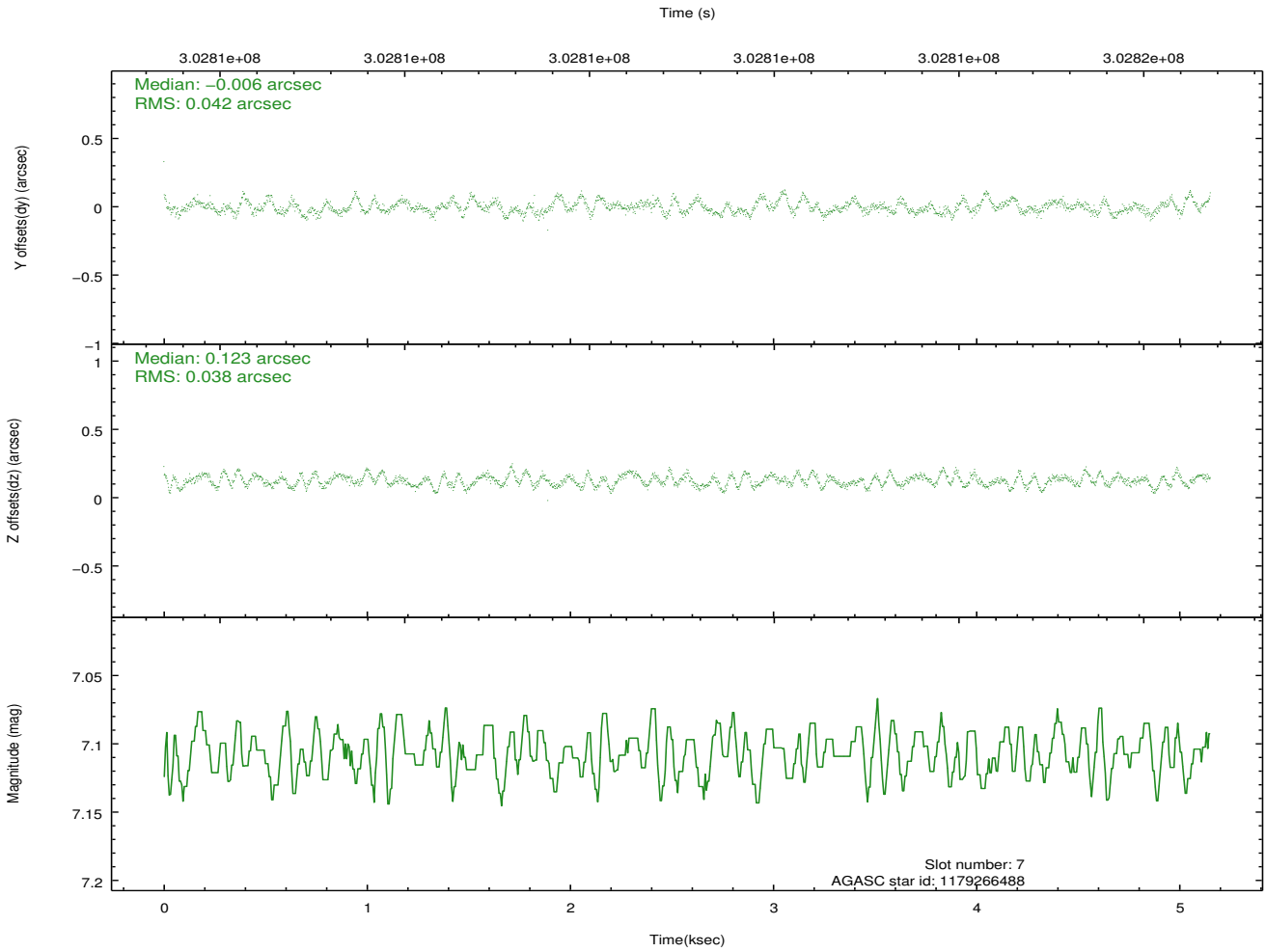
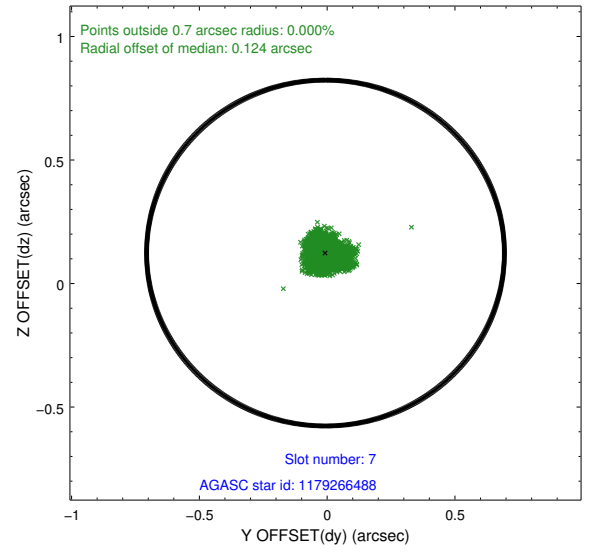
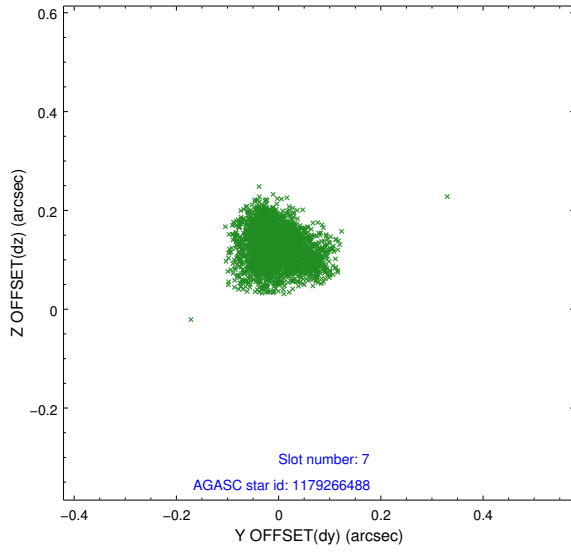
2.4.3 Slot 5



2.4.4 Slot 6

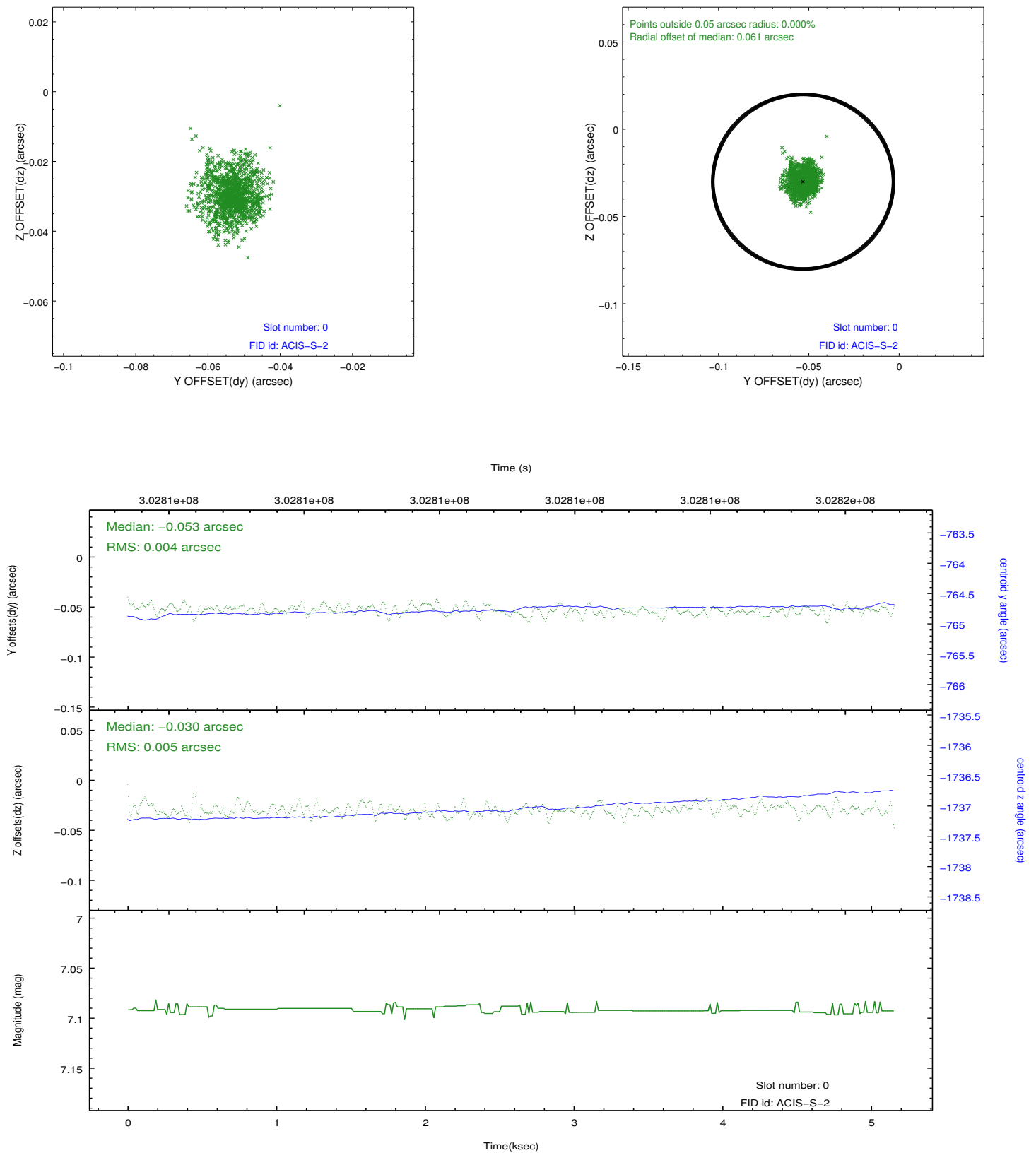


2.4.5 Slot 7

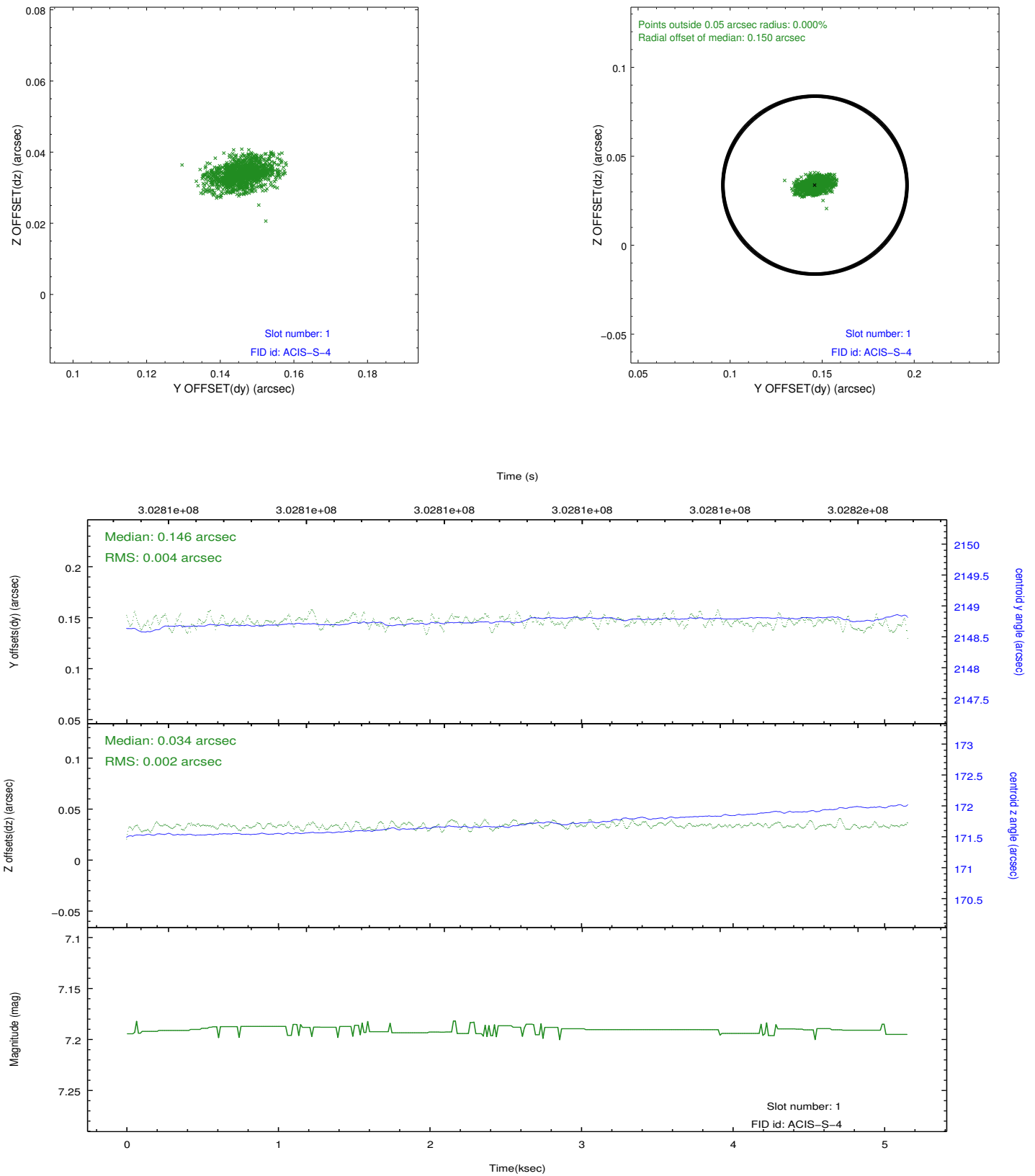


2.5 FID Slots

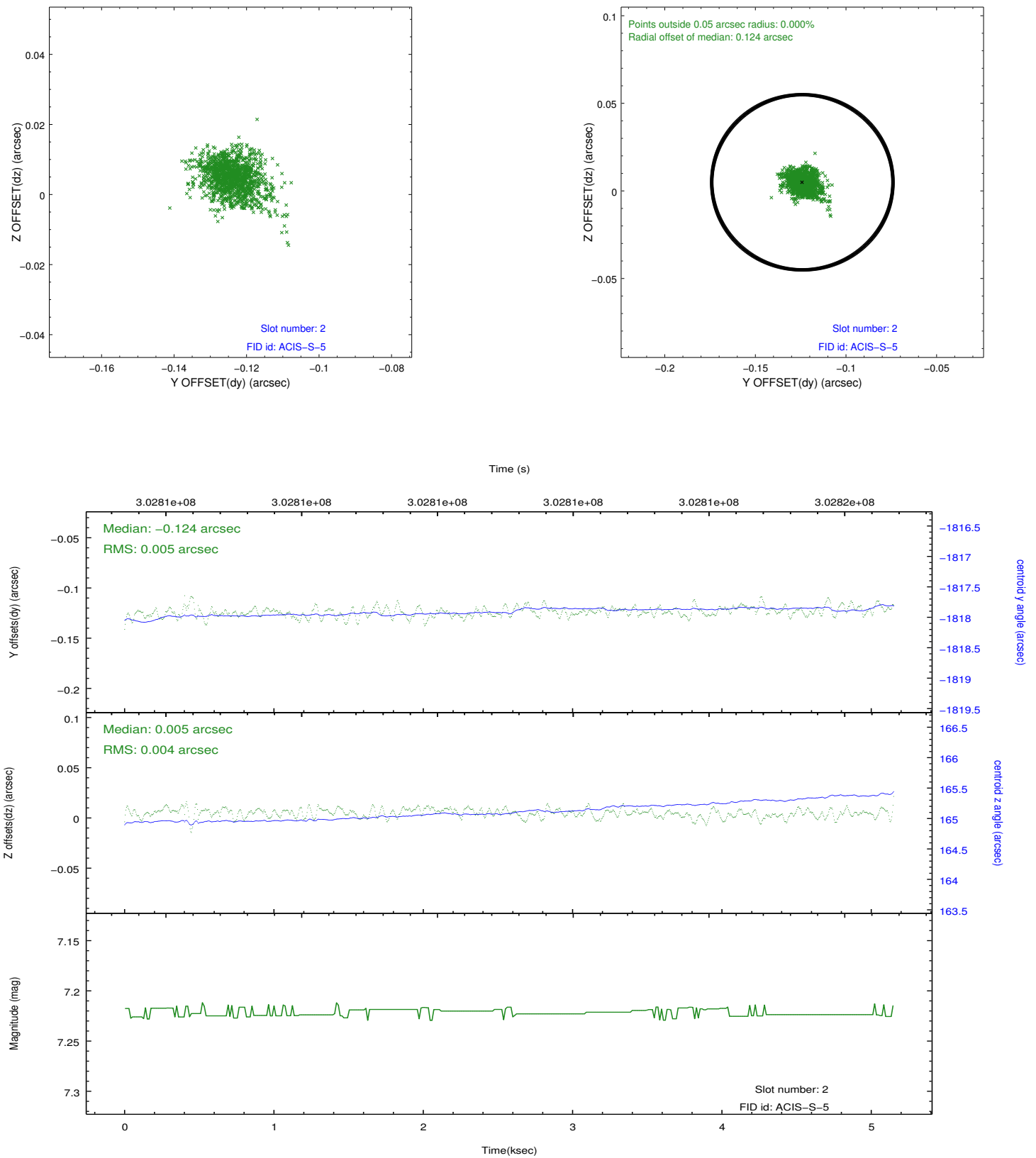
2.5.1 Slot 0



2.5.2 Slot 1

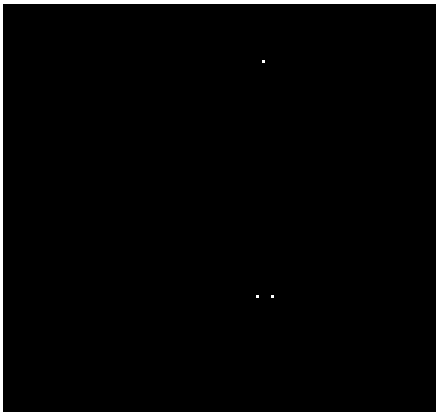


2.5.3 Slot 2

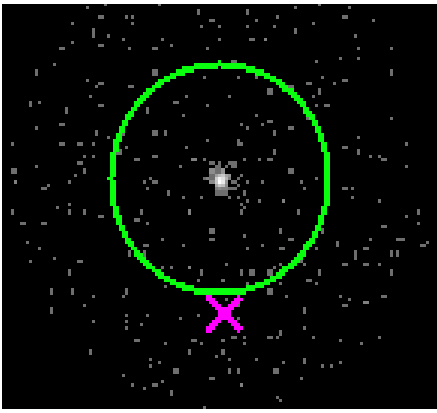


3 Gratings

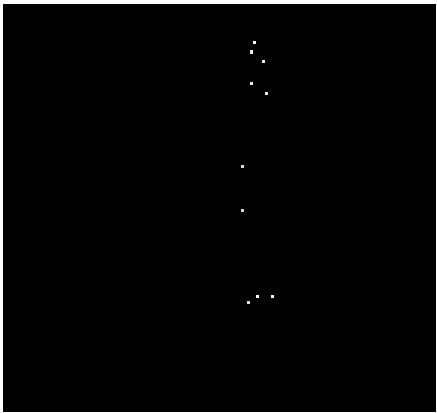
3.1 HEG Arm



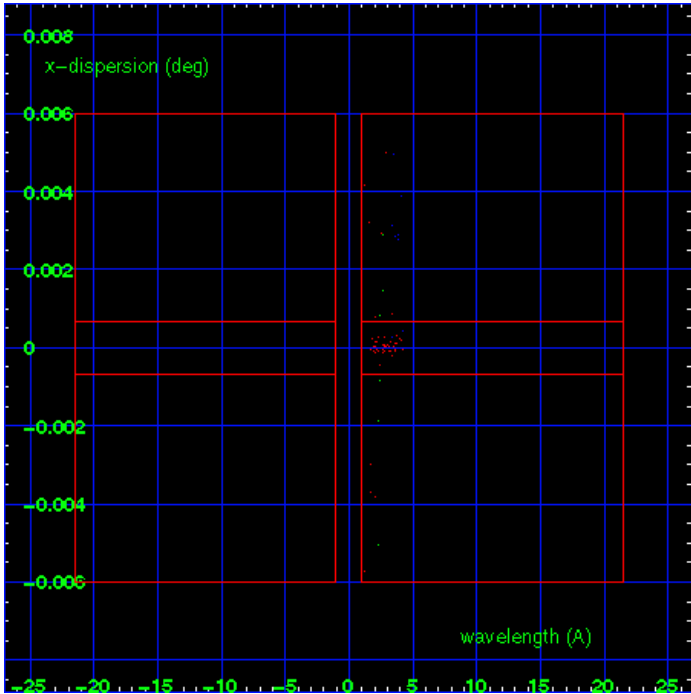
HEG Order Sort 123



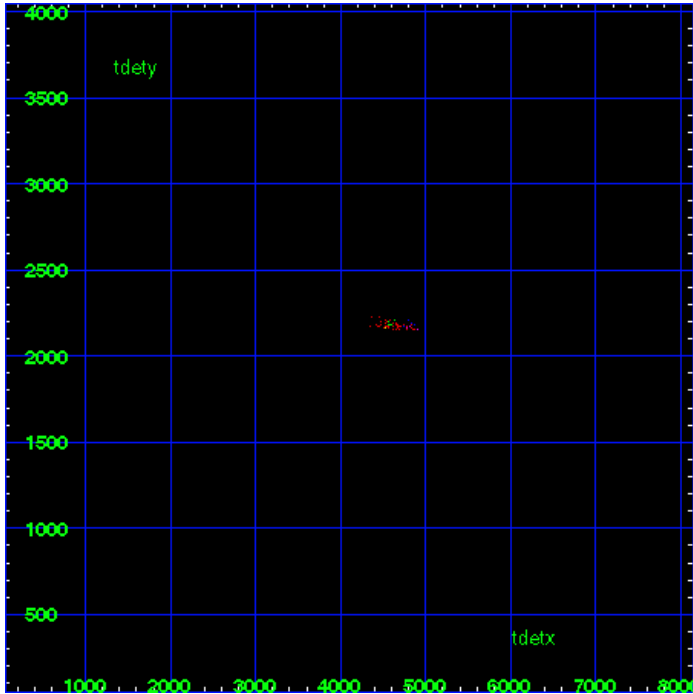
HEG Zero Order



HEG Order Sort ALL

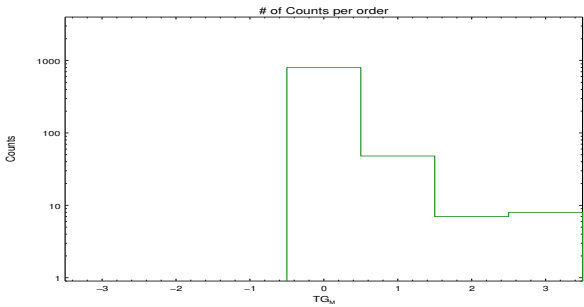


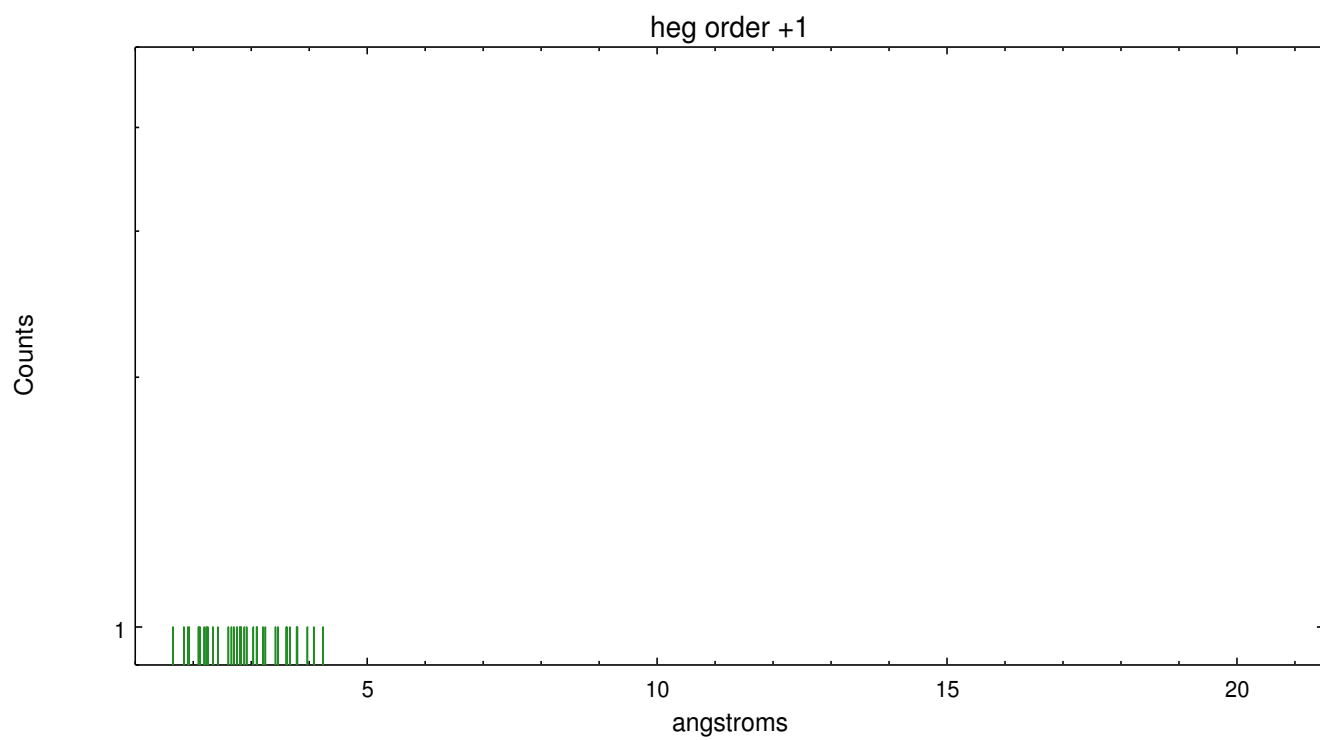
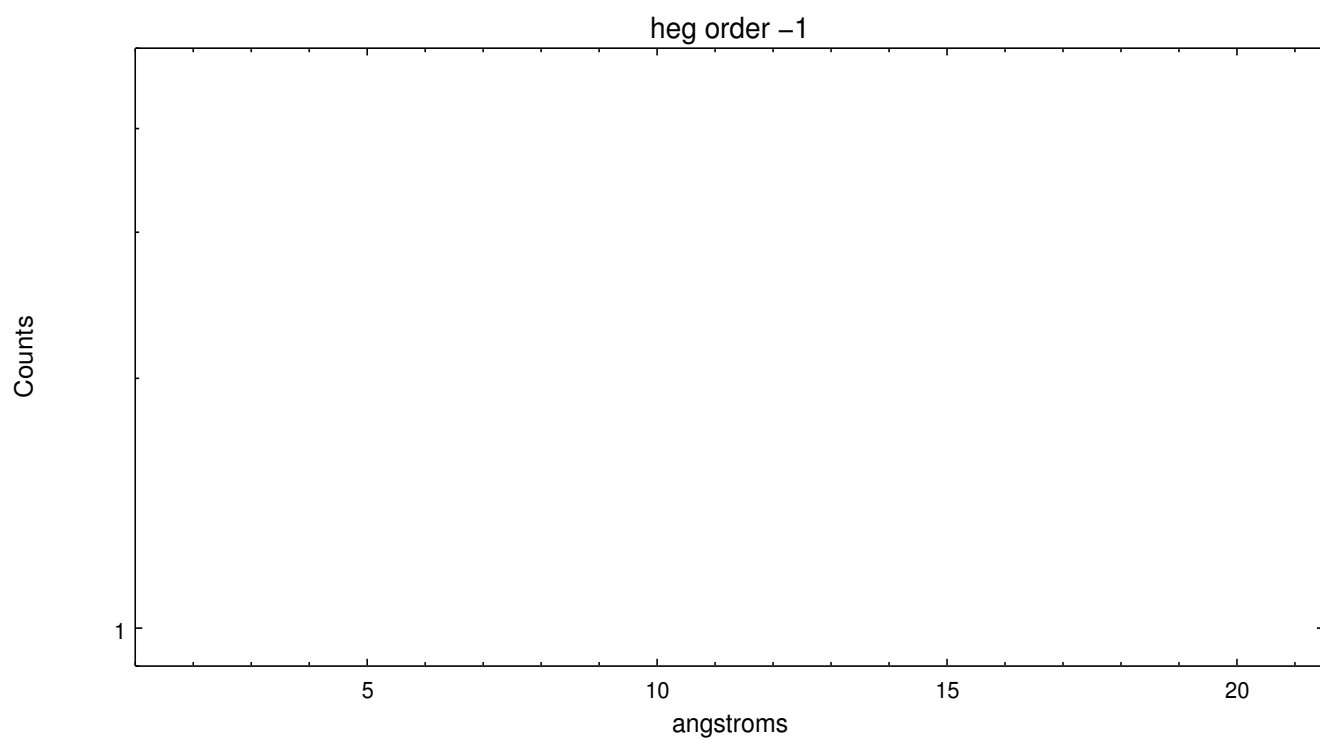
Spot Image HEG



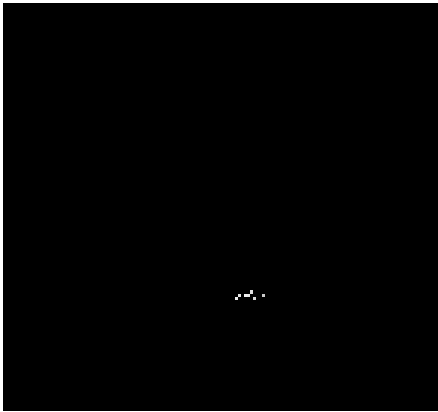
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	0	0	798	48	7	8

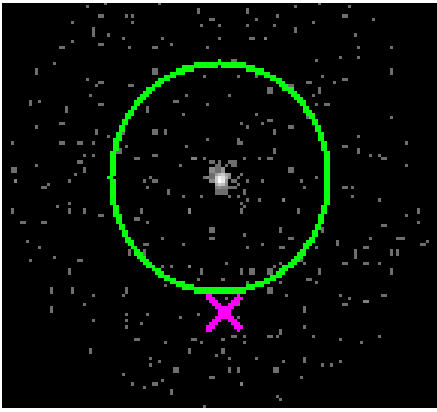




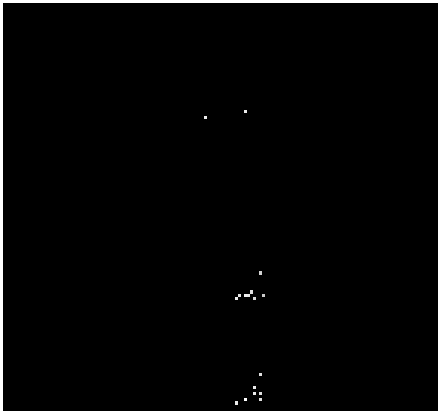
3.2 MEG Arm



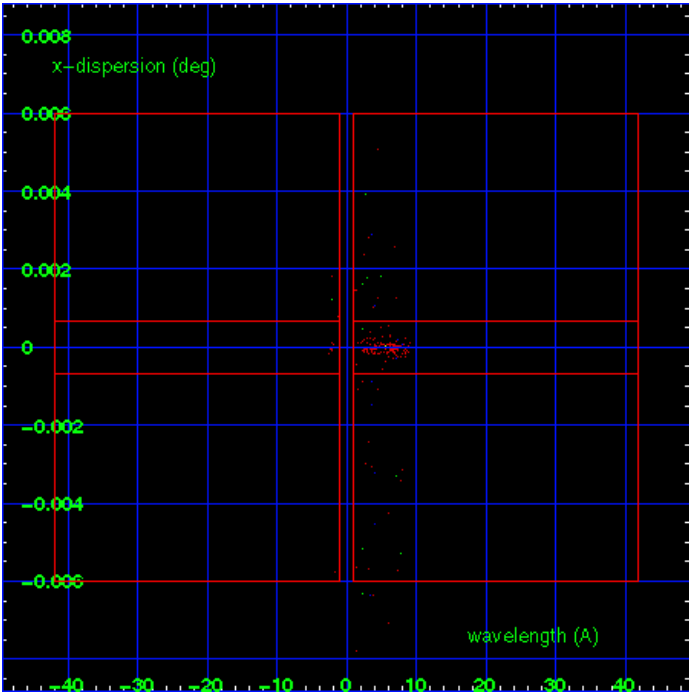
MEG Order Sort 123



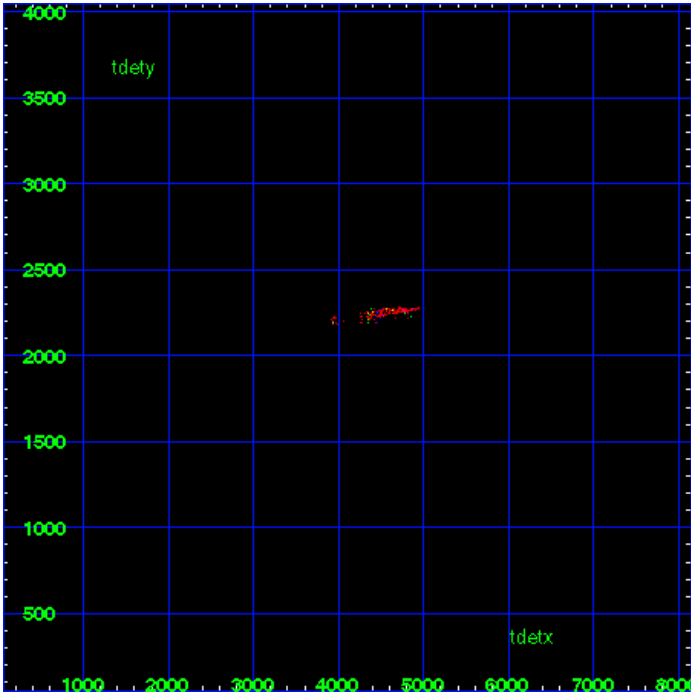
MEG Zero Order



MEG Order Sort ALL

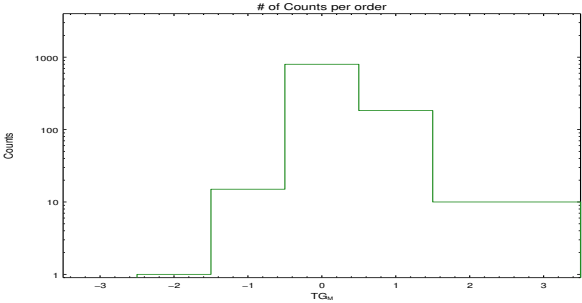


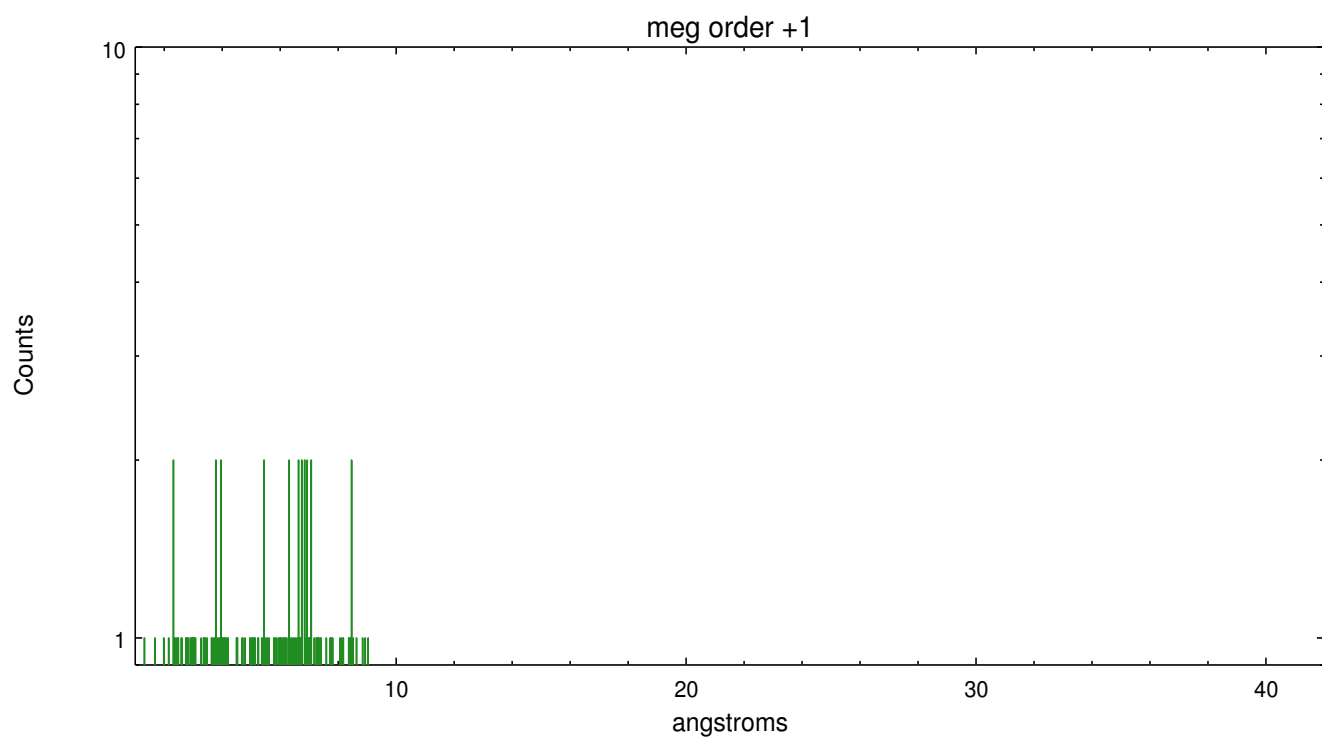
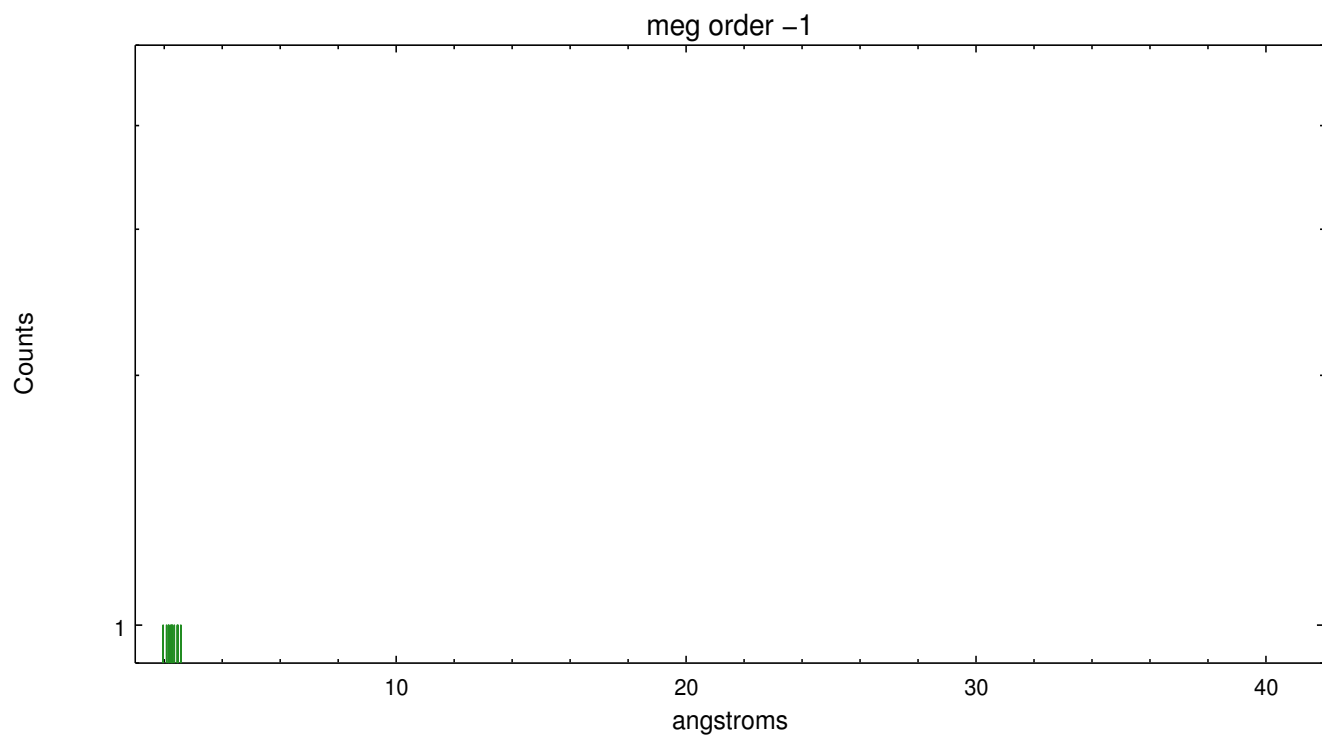
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	0	1	15	798	183	10	10





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	5.15319969

A.2 Comments

Because of the subarray and CCD chip chosen, only a portion of the plus-side MEG and HEG grating arms are available. A few counts are detected in the minus-side MEG spectral arm.