

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2691 - L2 Version 3
Chandra X-Ray Center

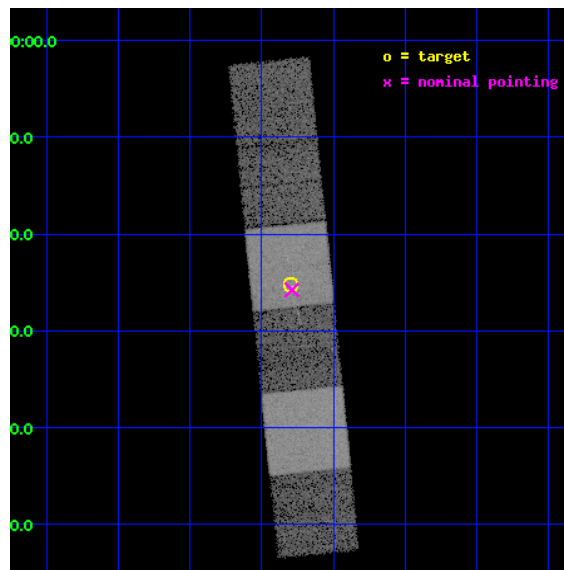
L2 Processing Date : Oct 13 2012

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

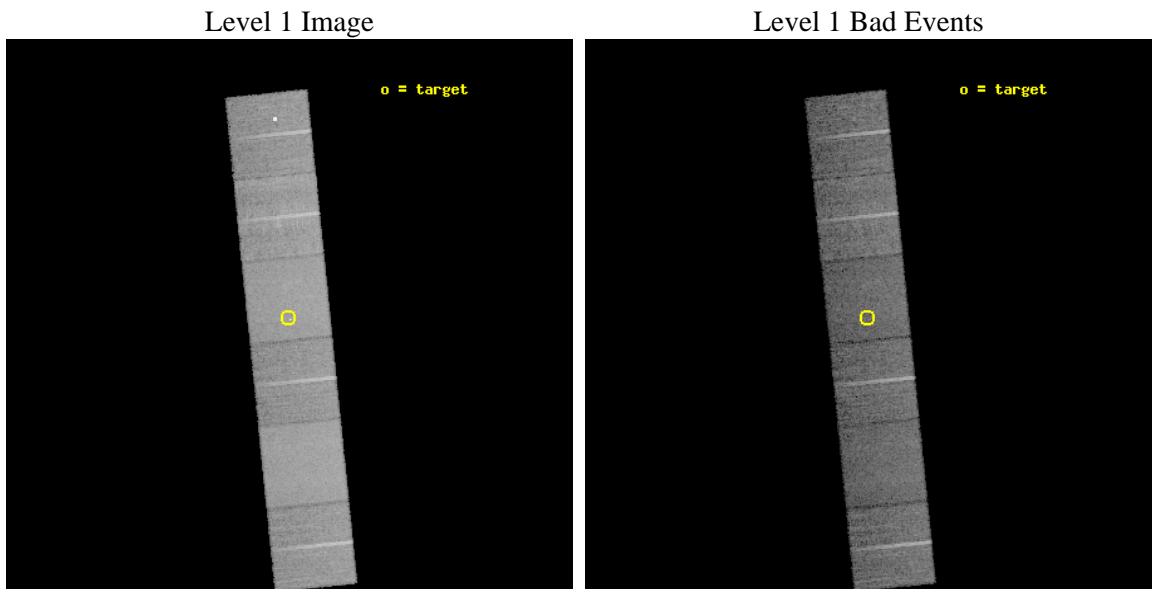
seq_num	400171	Sequence number
obs_id	2691	Observation id
title	OBSERVATIONS OF THE TRANSIENT X-RAY PULSAR 2S 1845-024	Proposal ti
observer	Dr. Mark Finger	Principal investigator
object	2S 1845-024	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	282.075	Observer's specified target RA [deg]
dec_targ	-2.42	Observer's specified target Dec [deg]
ra_nom	282.07232013686	Nominal RA [deg]
dec_nom	-2.4293309633723	Nominal Dec [deg]
roll_nom	264.13569715364	Nominal Roll [deg]
revision	3	Processing version of data
ontime	14754.19780618	Sum of GTIs [s]
livetime	14567.371269646	Livetime [s]
ontime4	14754.238826275	Sum of GTIs [s]
ontime5	14754.156746268	Sum of GTIs [s]
ontime6	14747.633765697	Sum of GTIs [s]
ontime7	14754.19780618	Sum of GTIs [s]
ontime8	14754.074556589	Sum of GTIs [s]
ontime9	14754.033646196	Sum of GTIs [s]
l2events	145194	Number of level 2 events



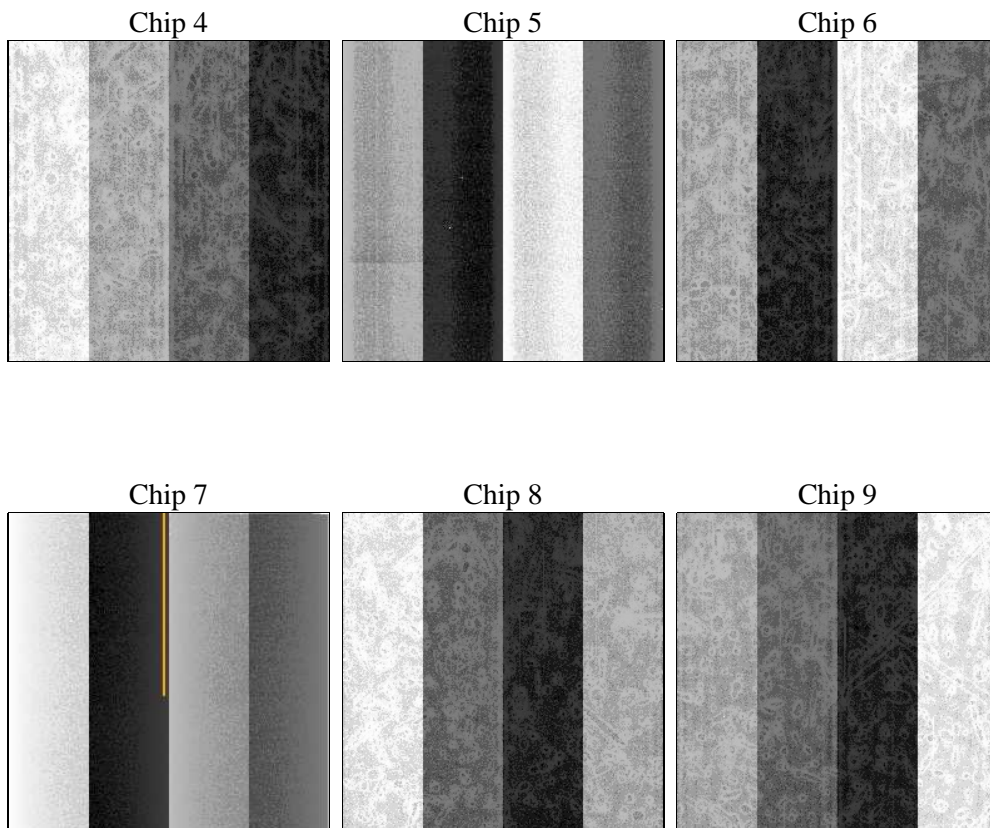
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	14754.19780618	Sum of GTIs [s]
caldsver	4.5.2	 	ontime4	14754.238826275	Sum of GTIs [s]
date	2012-10-13T06:02:18	Date and time of file creation	ontime5	14754.156746268	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	14747.633765697	Sum of GTIs [s]
			ontime7	14754.19780618	Sum of GTIs [s]
			ontime8	14754.074556589	Sum of GTIs [s]
			ontime9	14754.033646196	Sum of GTIs [s]
			l1events	660107	Number of level 1 events

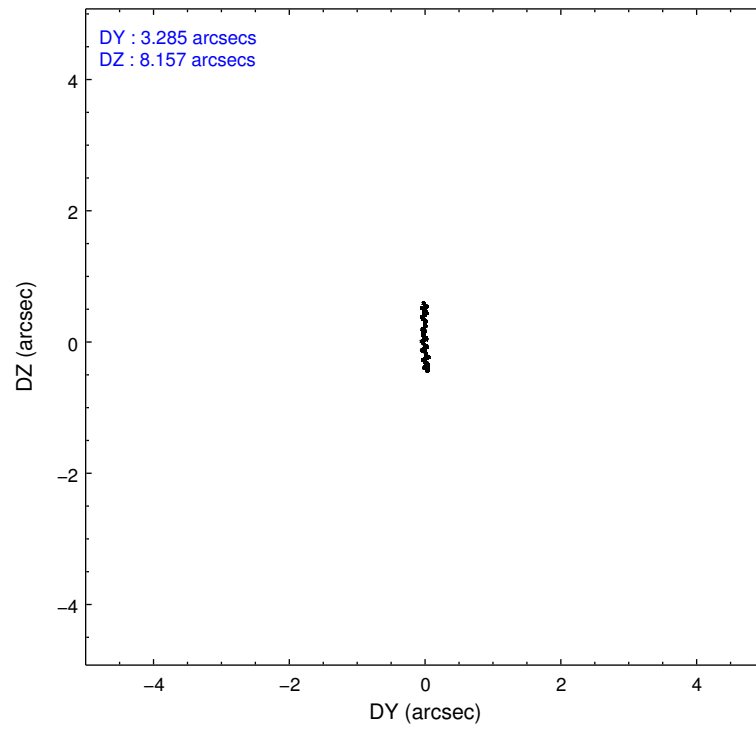
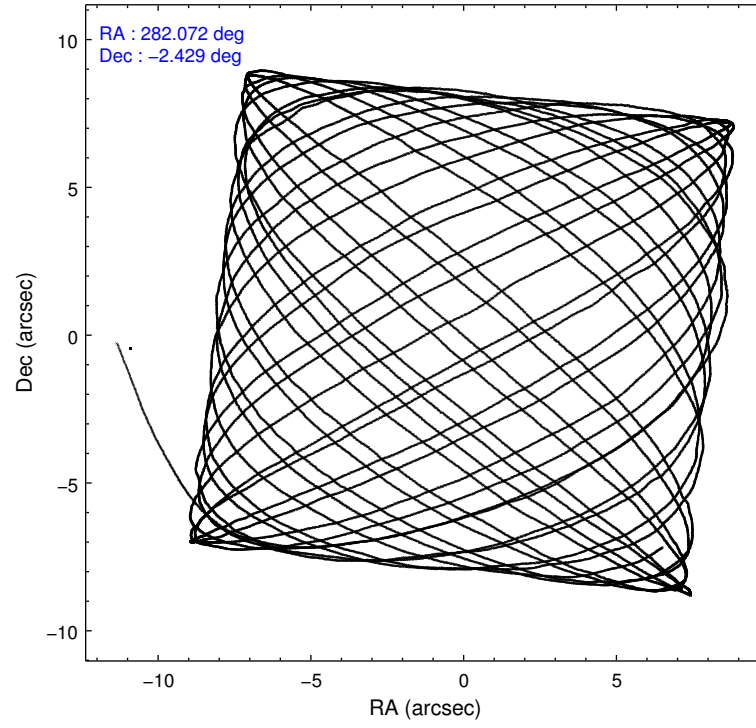
2.1.4 Events

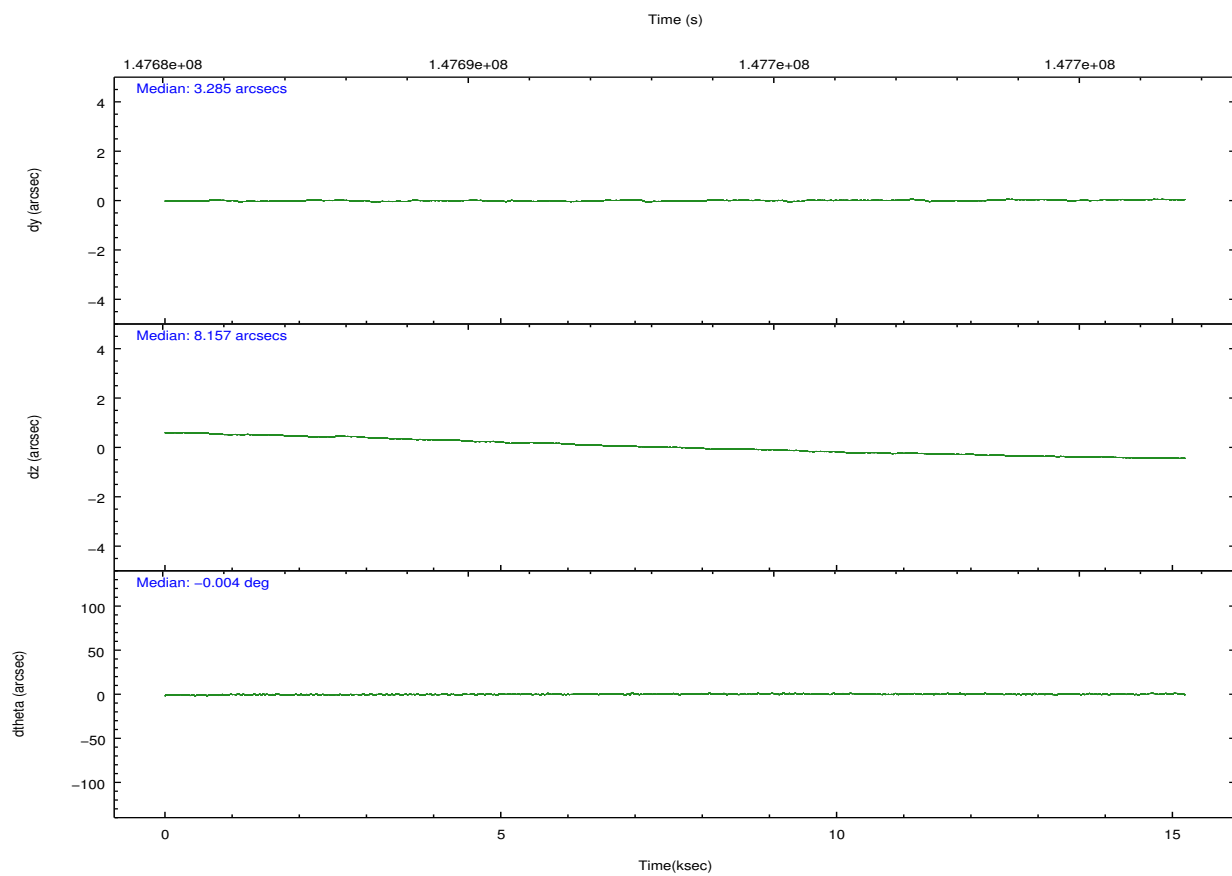
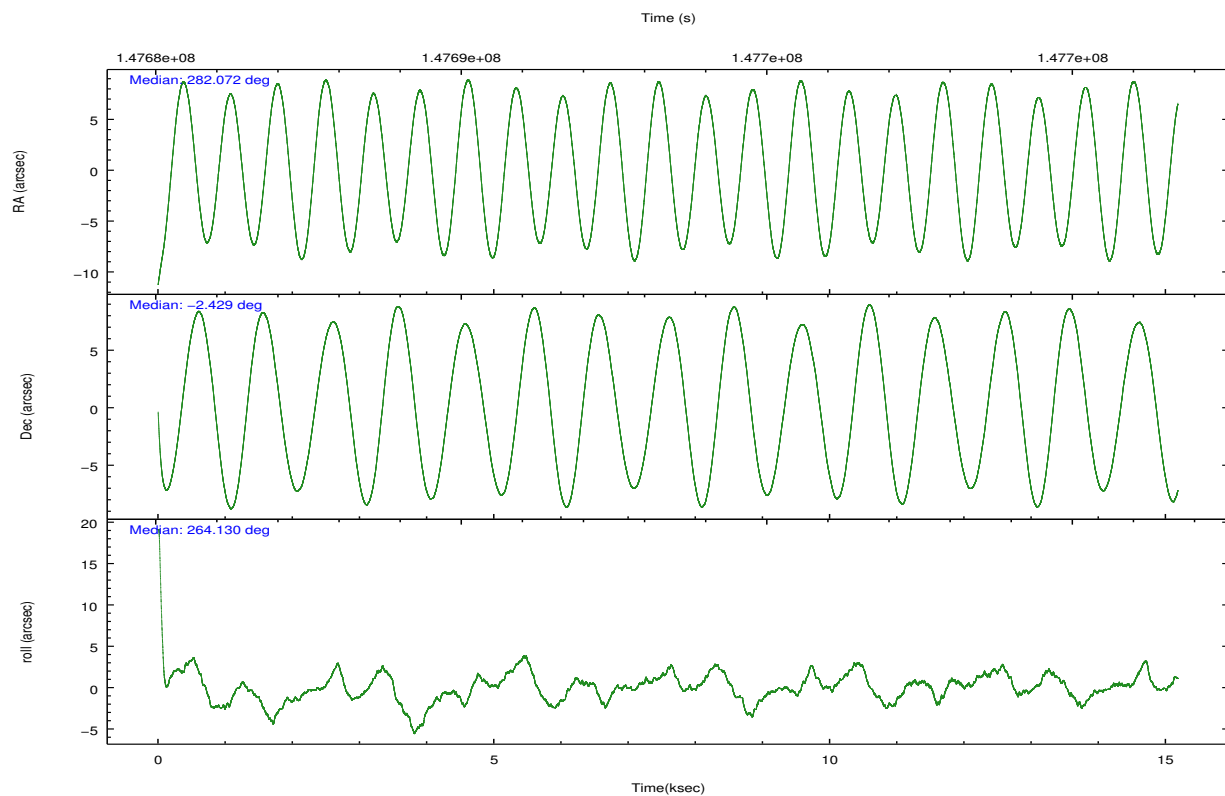
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	100785	128829	92500	121507	119053	97433	grade 0 events	5170	3507	4315	4743	7555	10105
rejected events	89285	71579	81452	70631	95194	80832		5%	2%	4%	3%	6%	10%
rejected %	88%	55%	88%	58%	79%	82%	grade 1 events	87	139	53	130	101	103
								0%	0%	0%	0%	0%	0%
							grade 2 events	2368	17223	2230	10011	4996	2121
								2%	13%	2%	8%	4%	2%
							grade 3 events	1172	2522	1103	4605	2613	1158
								1%	1%	1%	3%	2%	1%
							grade 4 events	1086	2516	1075	4522	2486	1109
								1%	1%	1%	3%	2%	1%
							grade 5 events	3878	9926	4161	11591	5279	4322
								3%	7%	4%	9%	4%	4%
							grade 6 events	1712	31512	2329	27023	6213	2117
								1%	24%	2%	22%	5%	2%
							grade 7 events	85312	61484	77234	58882	89810	76398
								84%	47%	83%	48%	75%	78%

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	282.060860	282.0723201368576	Subarray requested	NONE	NONE
[deg] Pointing Dec	-2.404601	-2.429330963372348	Alternating exposures requested	N	N
[deg] Pointing Roll	263.978568	264.1356971536441	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	147670264.184000	147670264.184000			
[s] Window stop time (MET)	147756664.184000	147756664.184000			
[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)	147685979.184000	147685173.66082			
Observation start date	2002-09-06T07:51:55	2002-09-06T07:39:33			
[s] Observation end time (MET)	147700979.184000	147702137.92402			
Observation end date	2002-09-06T12:01:55	2002-09-06T12:22:17			
Read mode	TIMED	TIMED			

2.3 Aspect



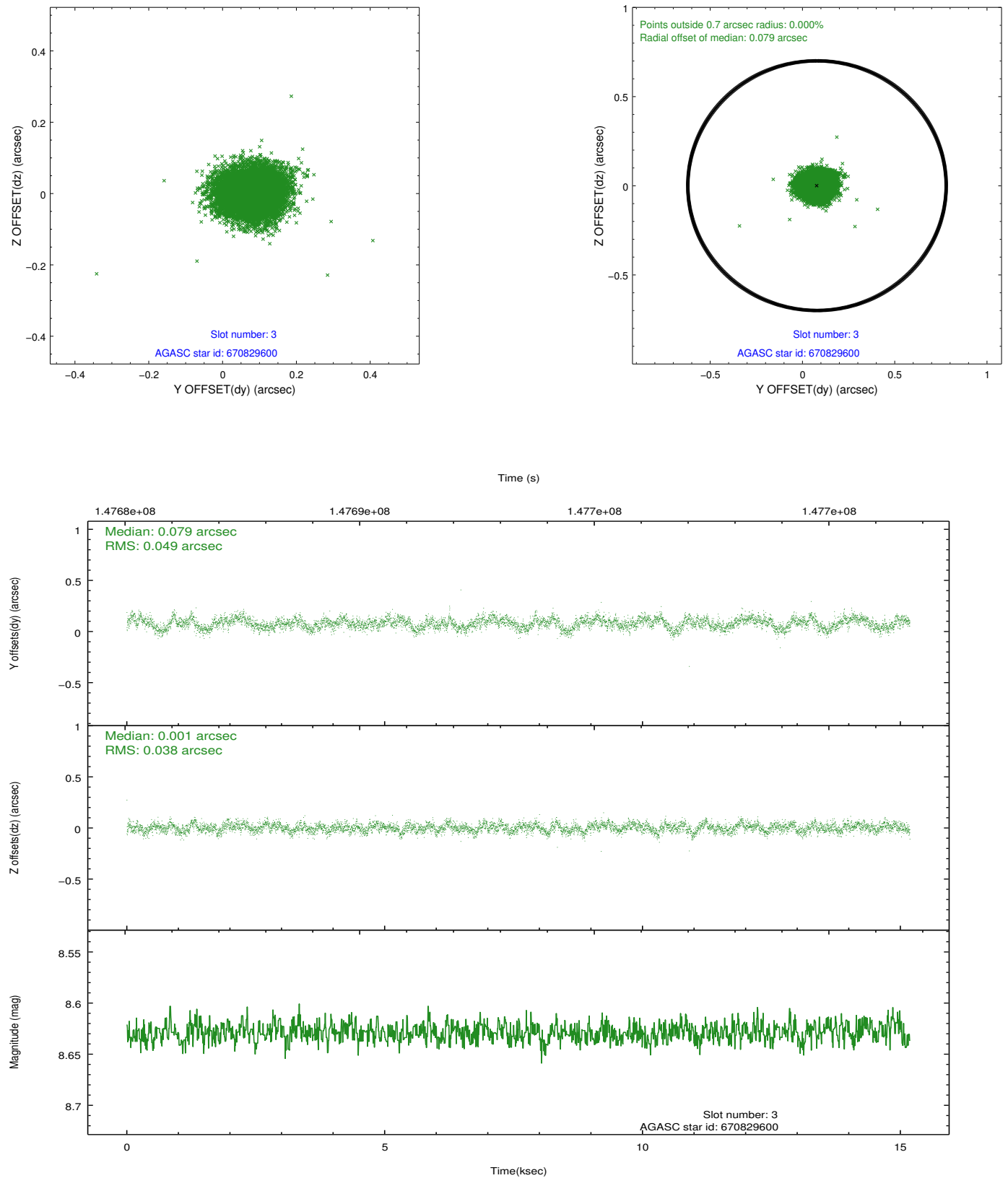


Slot Statistics

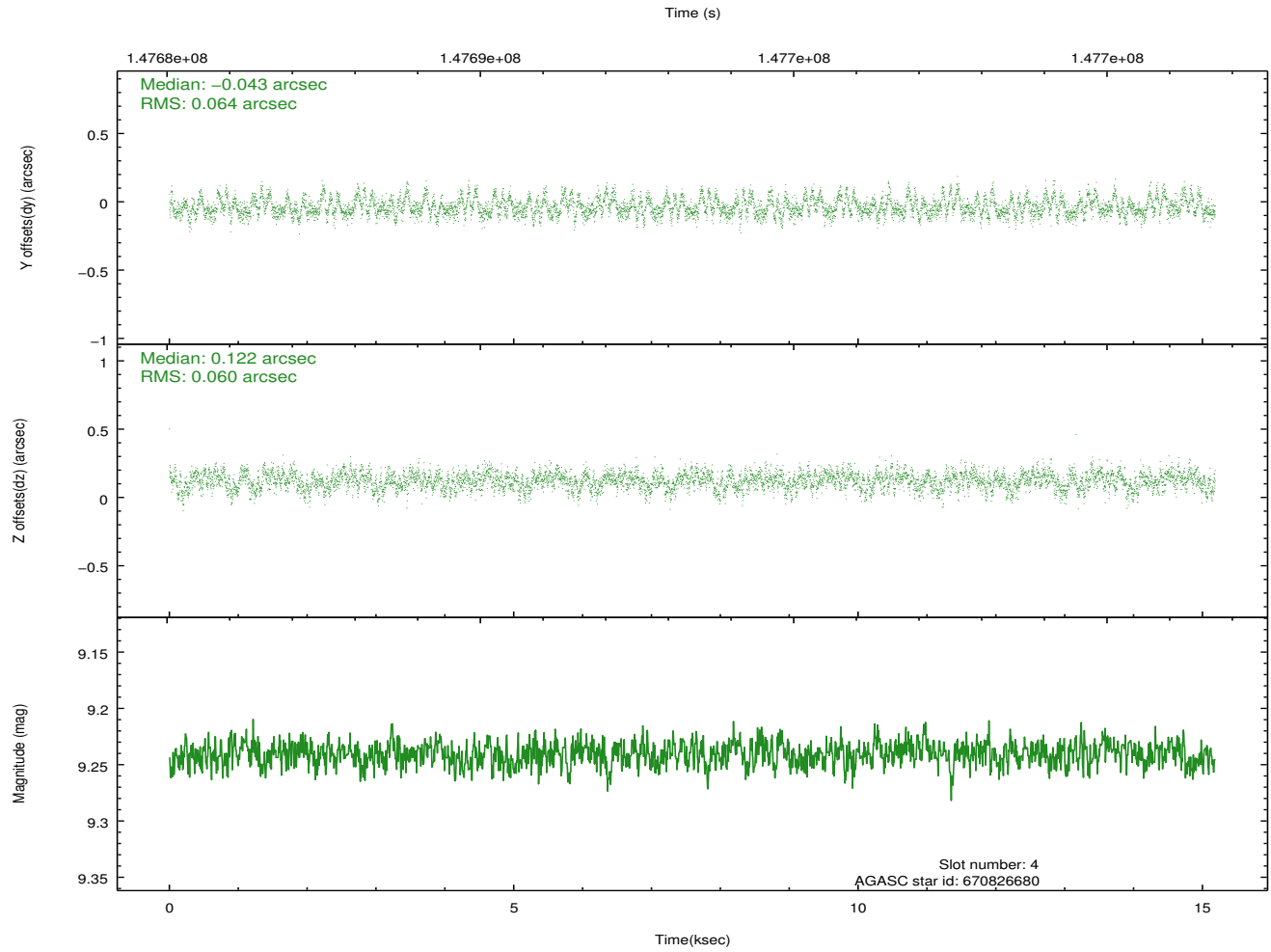
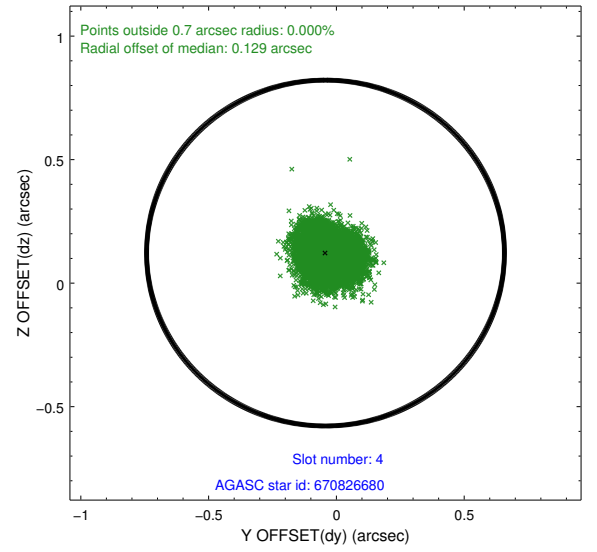
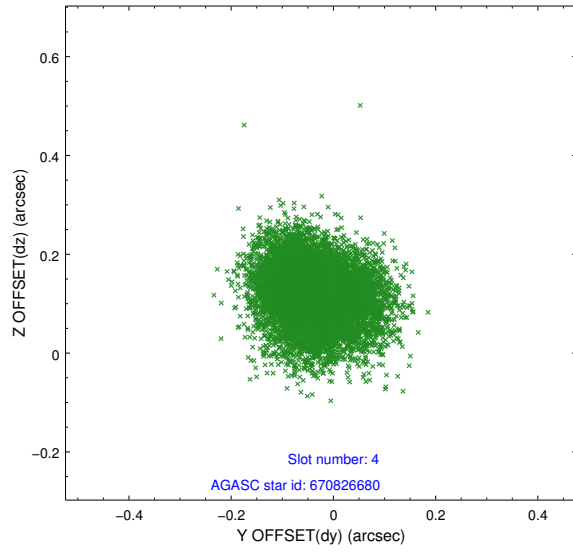
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	3704	-0.006	-0.007	0.008	0.014	0.000000	0.000000	-755.95	-1729.39
1	FID	ACIS-S-4	7.20	3704	0.002	0.005	0.008	0.015	0.000000	0.000000	2157.21	178.78
2	FID	ACIS-S-5	7.24	3704	-0.027	0.010	0.007	0.011	0.000000	0.000000	-1808.42	172.82
3	GUIDE	670829600	8.63	7406	0.079	0.001	0.066	0.105	282.227270	-3.031765	2182.80	832.58
4	GUIDE	670826680	9.24	7407	-0.043	0.122	0.095	0.149	282.619566	-2.432067	-111.84	2009.60
5	GUIDE	670827744	9.53	7395	0.015	-0.158	0.095	0.151	281.699180	-2.020401	-1238.51	-1438.65
6	GUIDE	670826608	9.23	7408	0.015	0.102	0.095	0.150	282.595495	-2.141533	-1143.42	1813.76
7	GUIDE	670827280	9.41	7407	-0.067	-0.067	0.116	0.185	281.434708	-1.976010	-1297.23	-2401.76

2.4 Star Slots

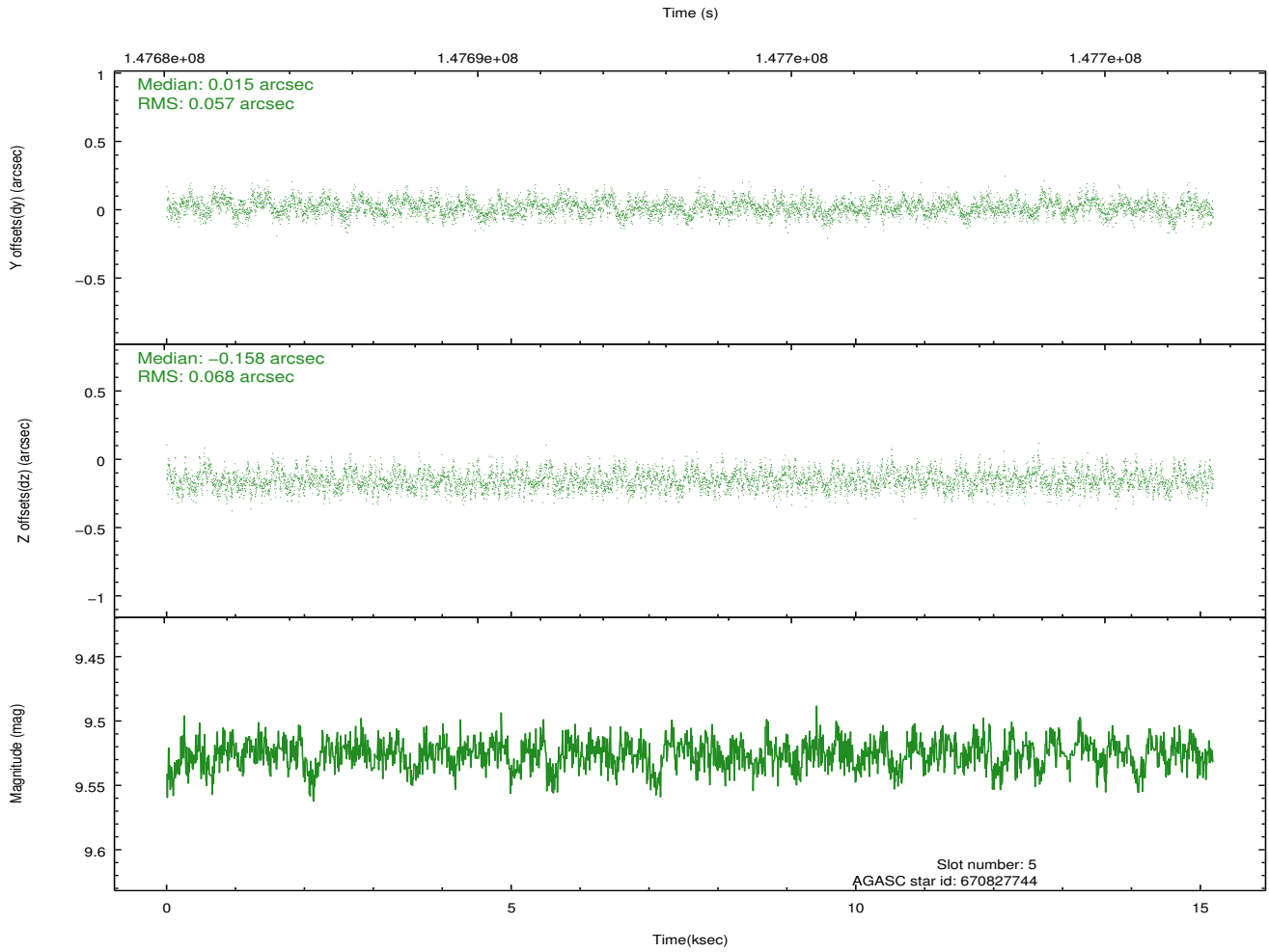
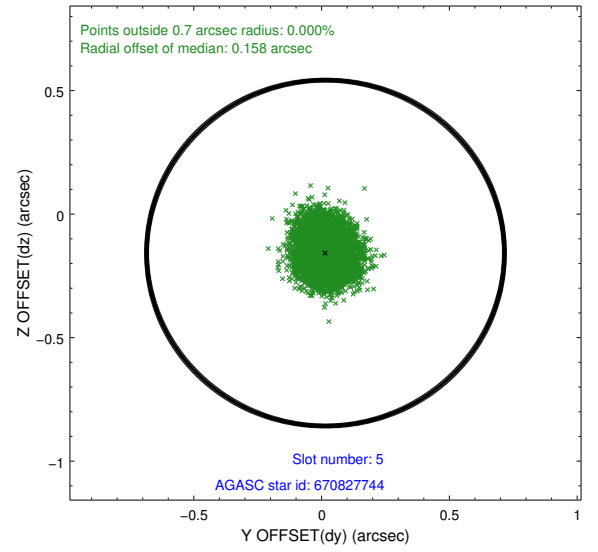
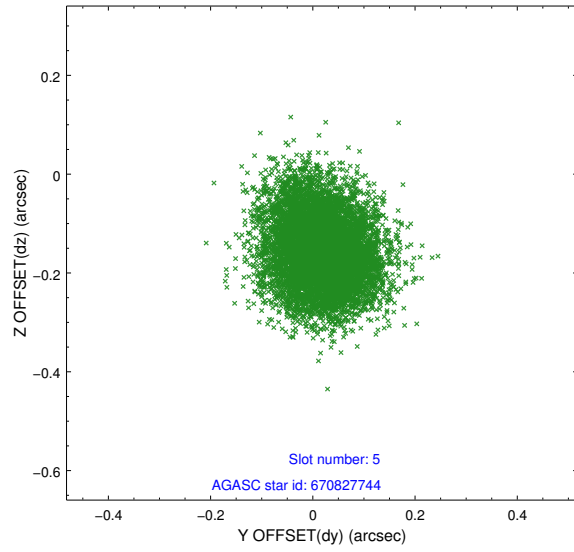
2.4.1 Slot 3



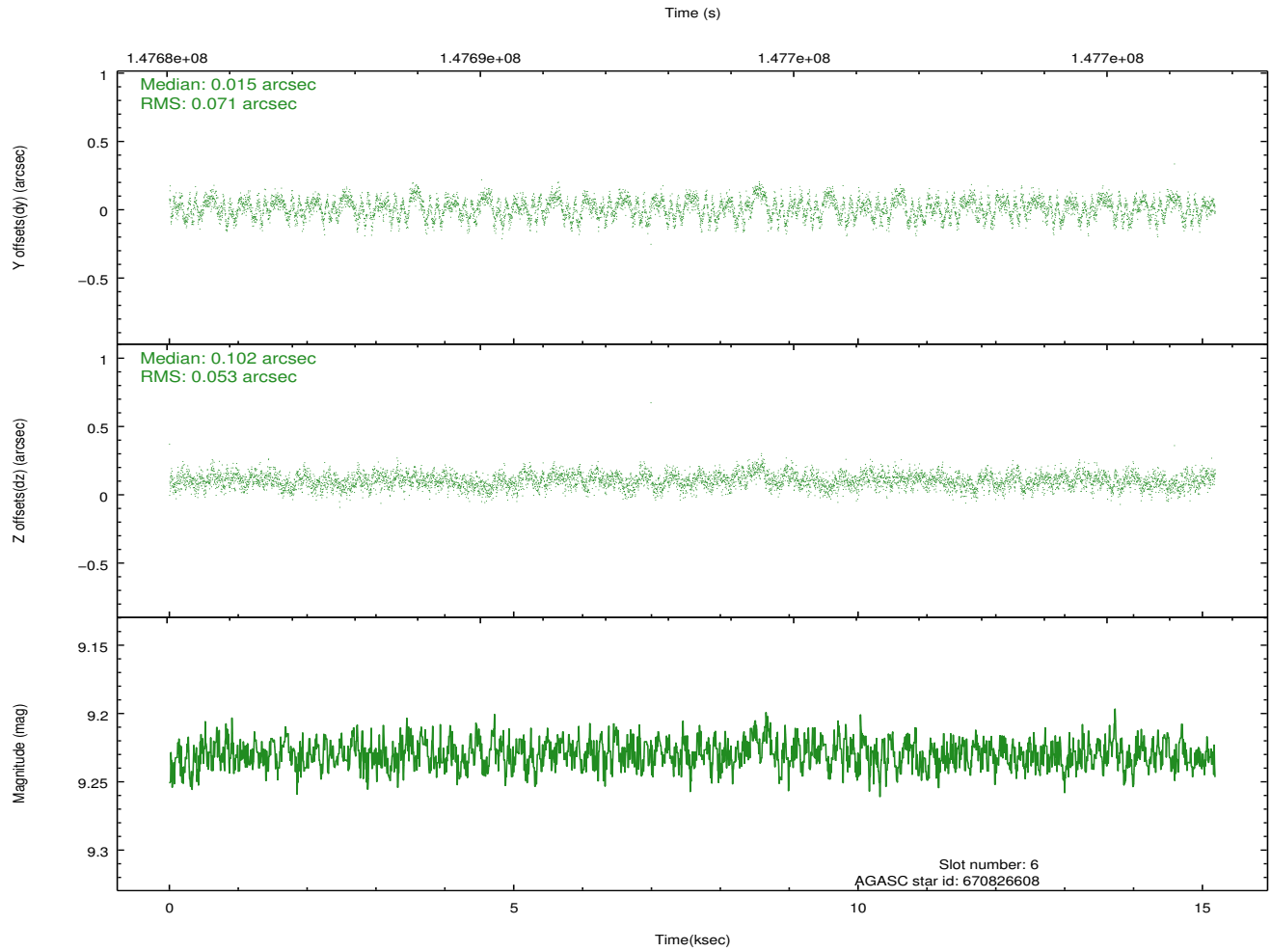
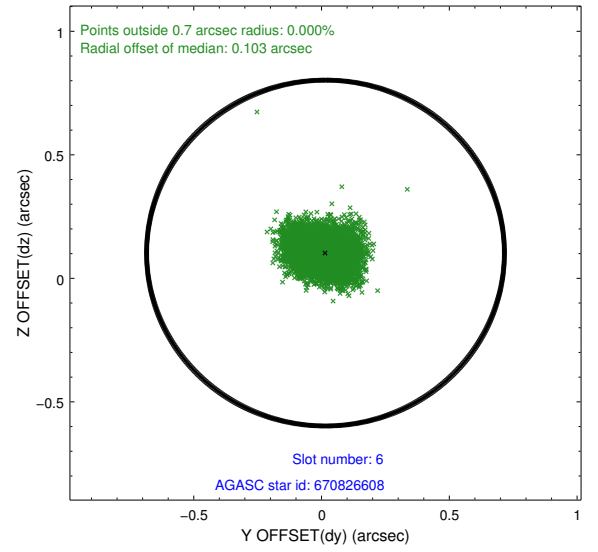
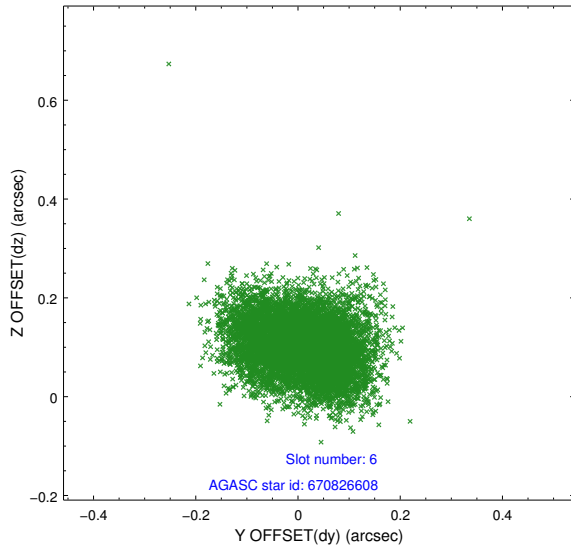
2.4.2 Slot 4



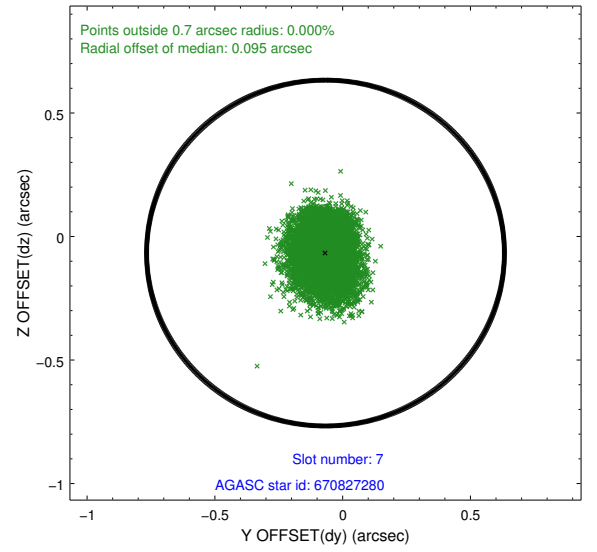
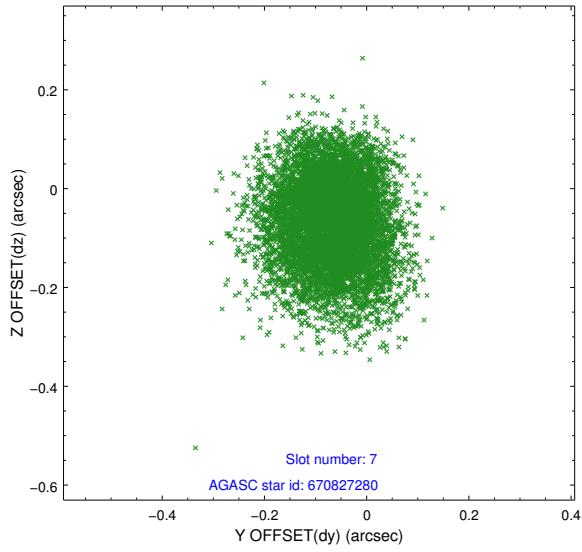
2.4.3 Slot 5



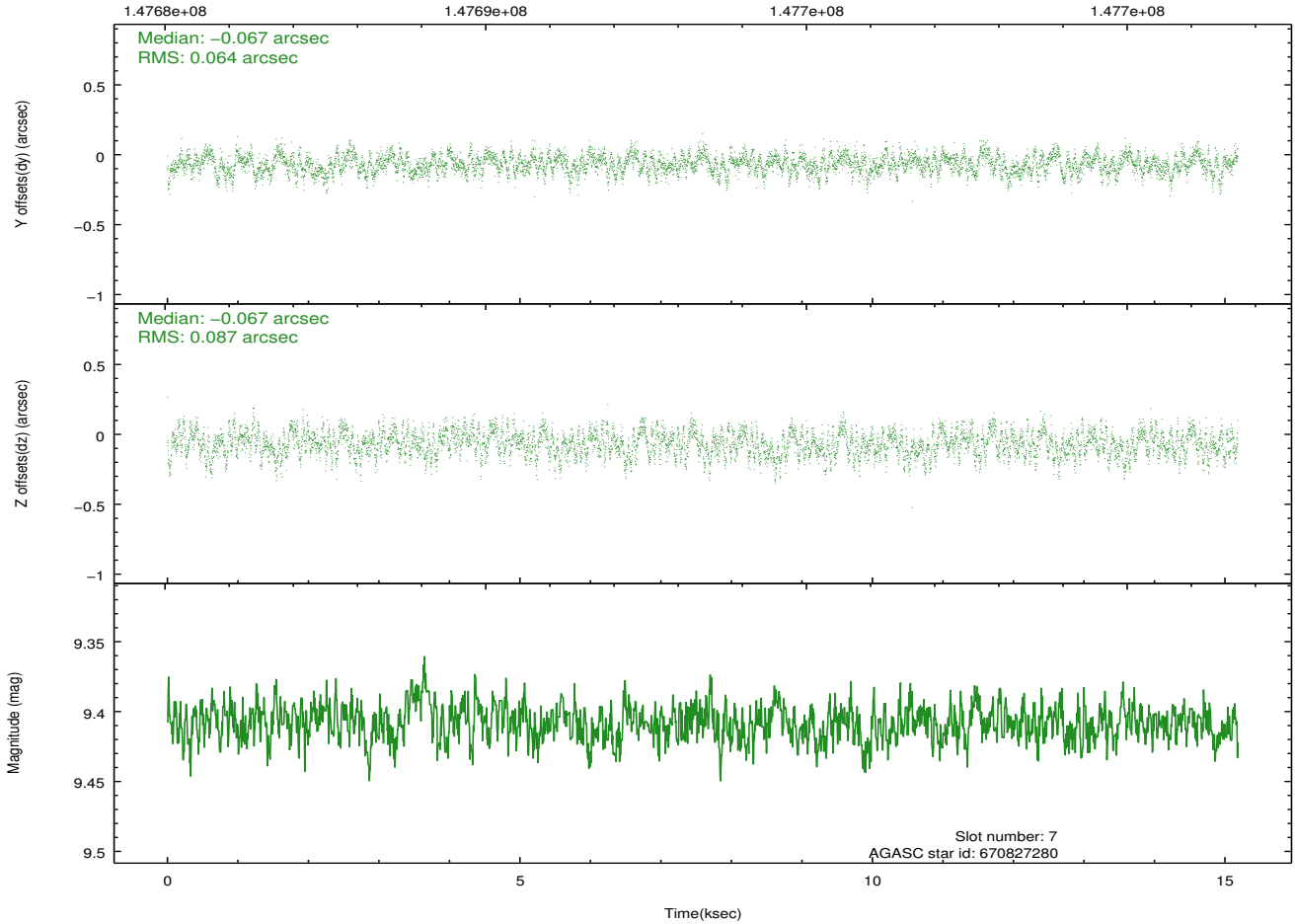
2.4.4 Slot 6



2.4.5 Slot 7

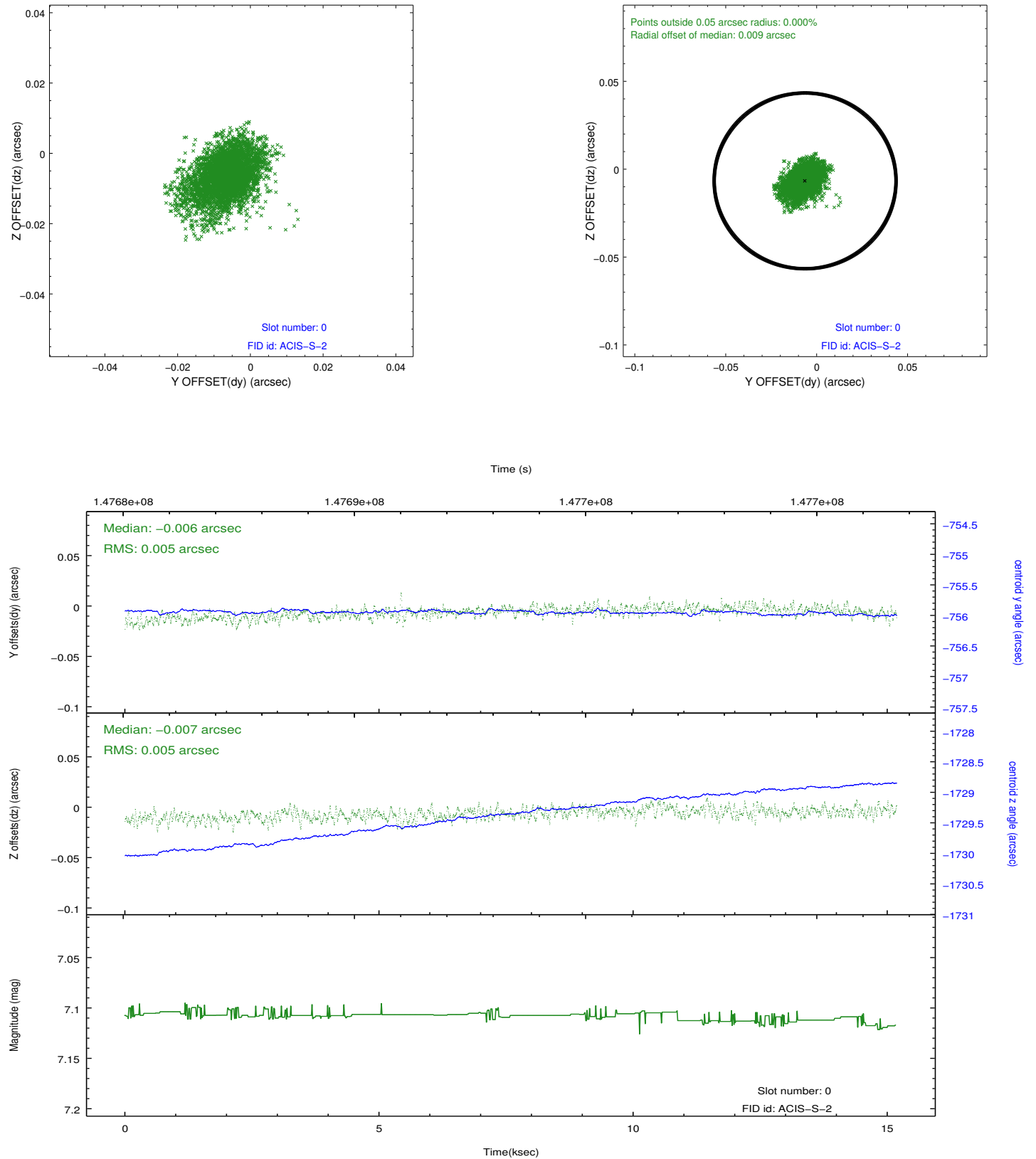


Time (s)

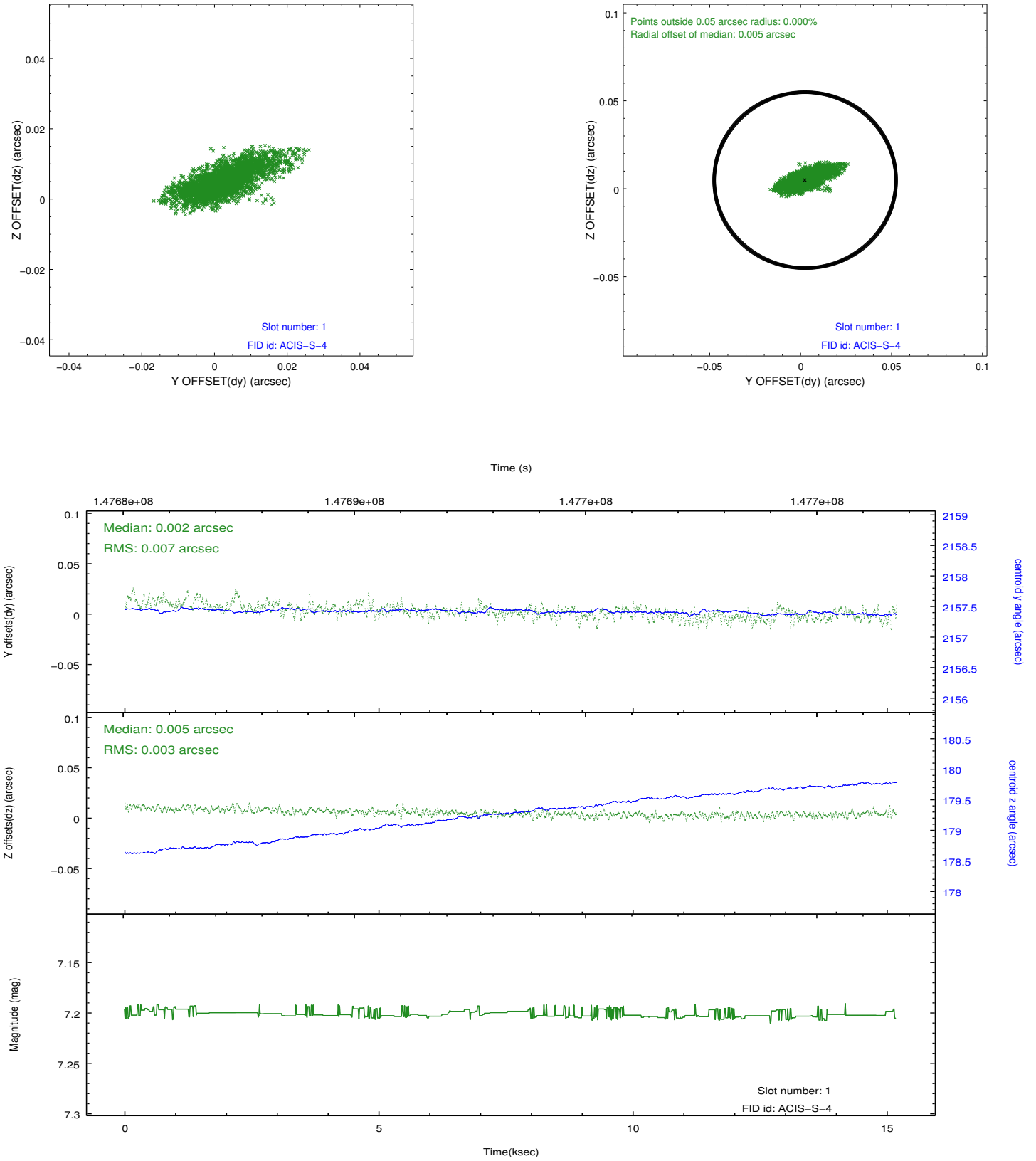


2.5 FID Slots

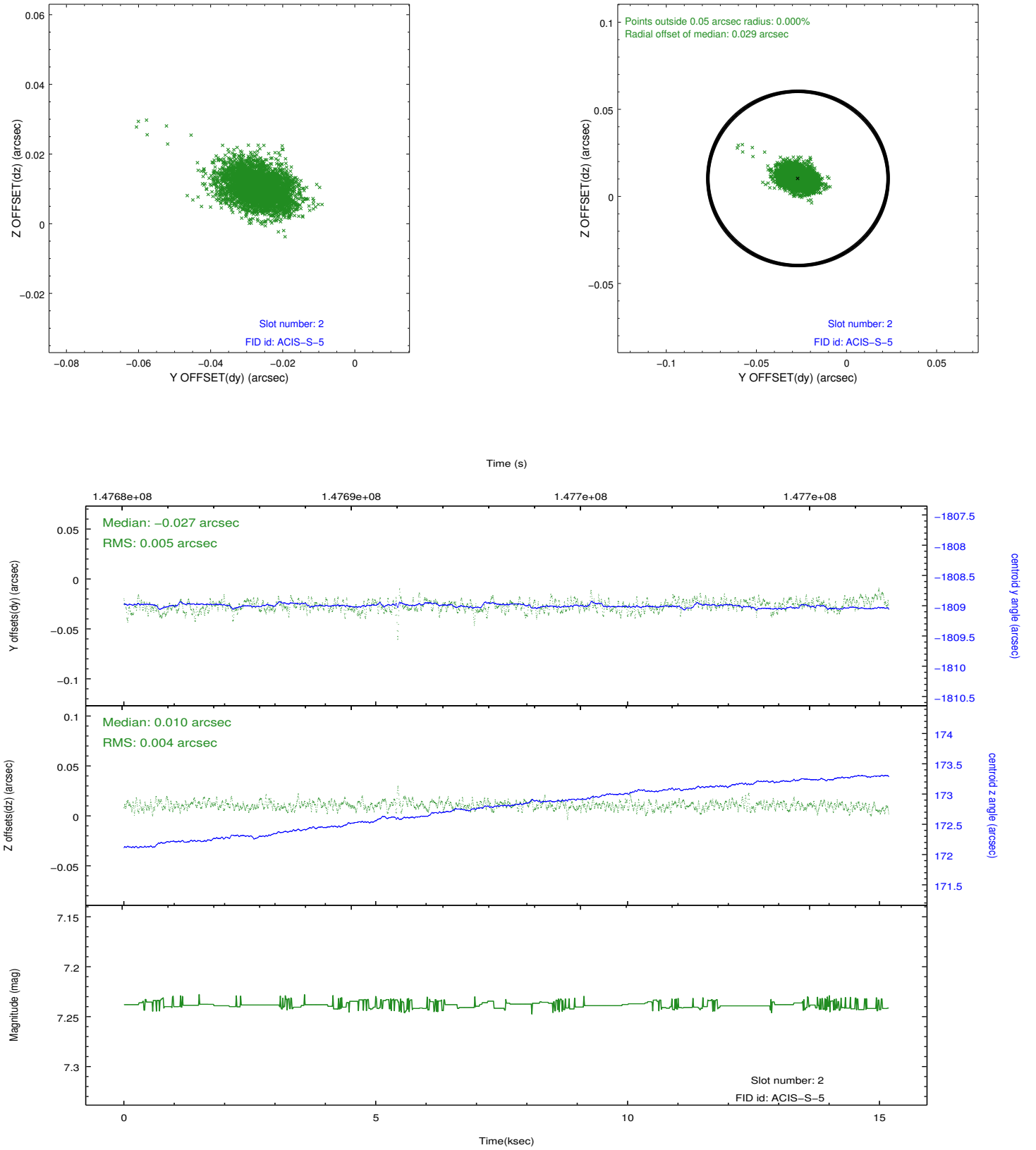
2.5.1 Slot 0



2.5.2 Slot 1

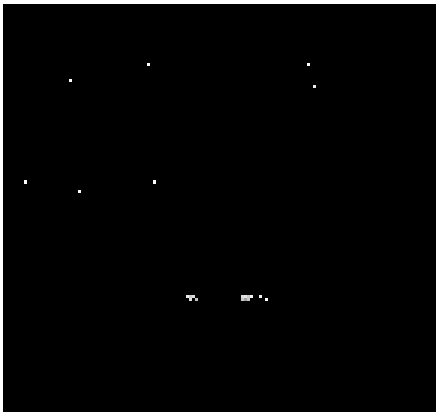


2.5.3 Slot 2

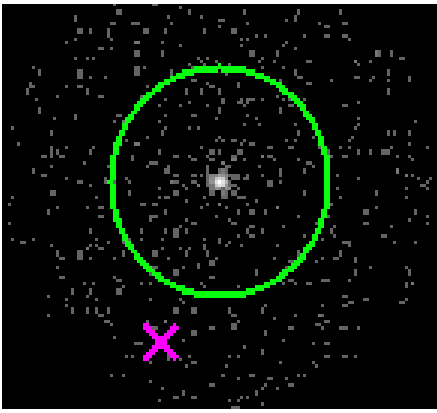


3 Gratings

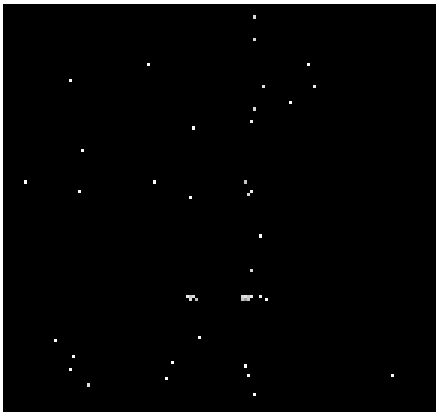
3.1 HEG Arm



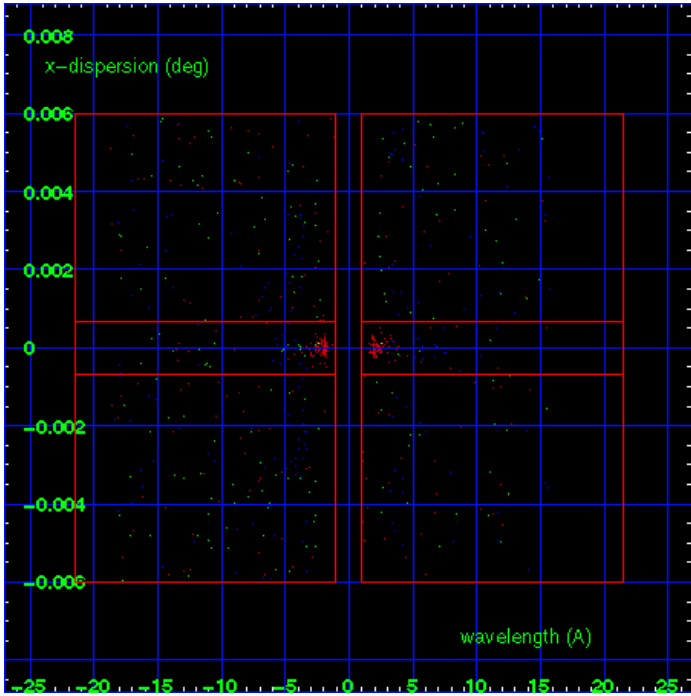
HEG Order Sort 123



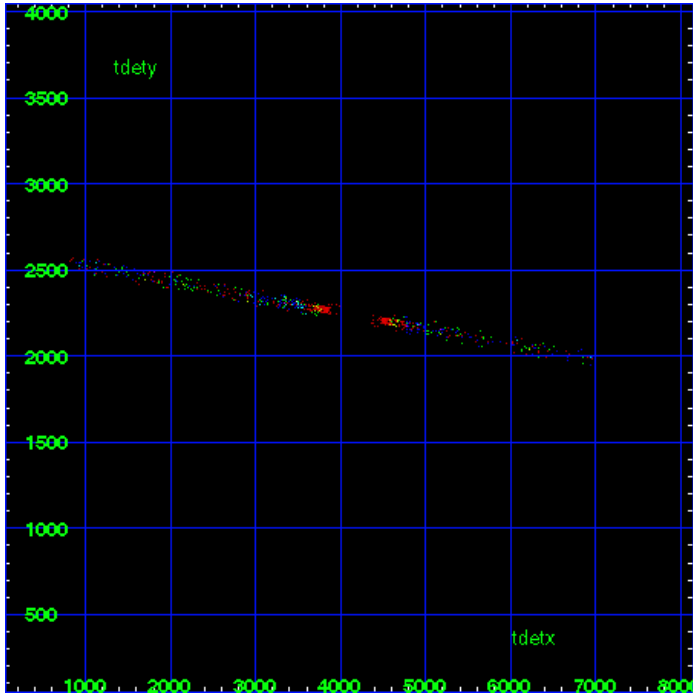
HEG Zero Order



HEG Order Sort ALL

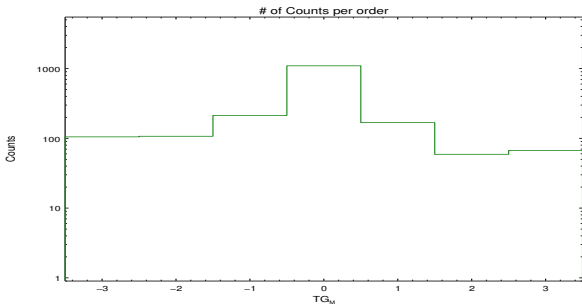


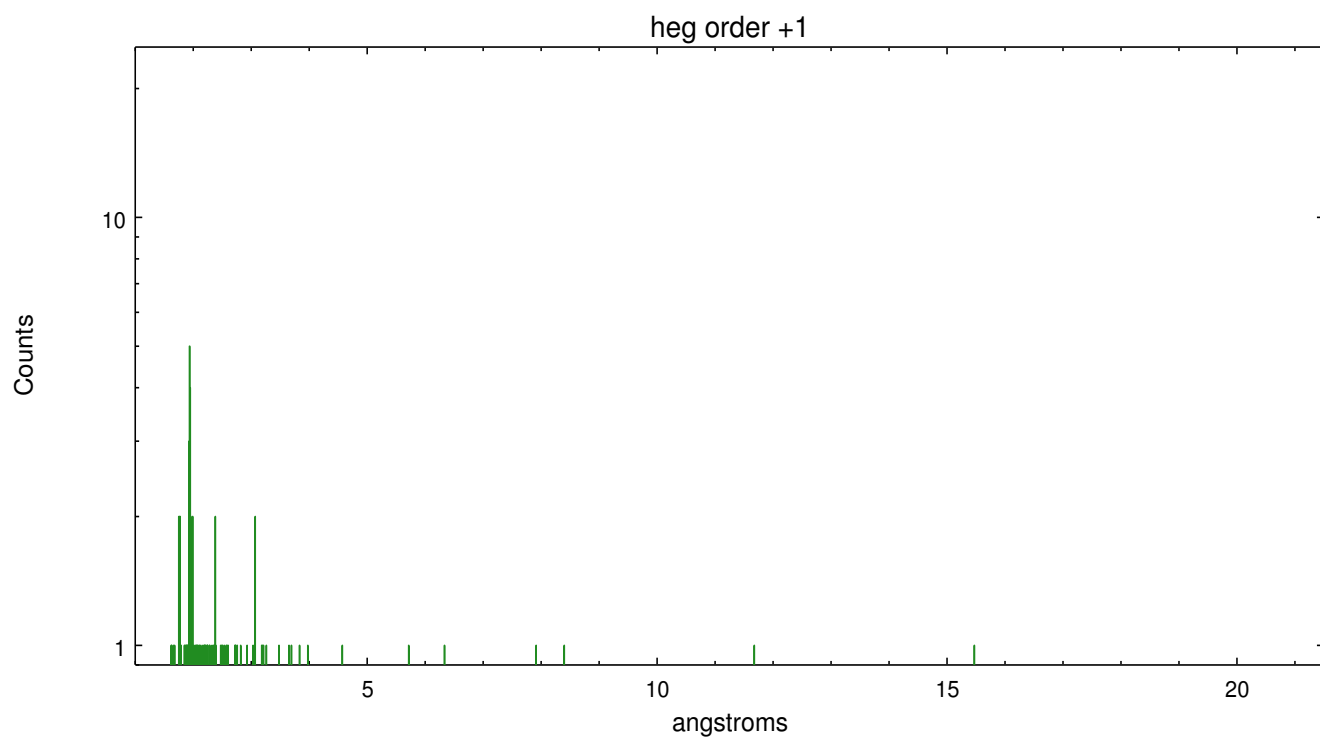
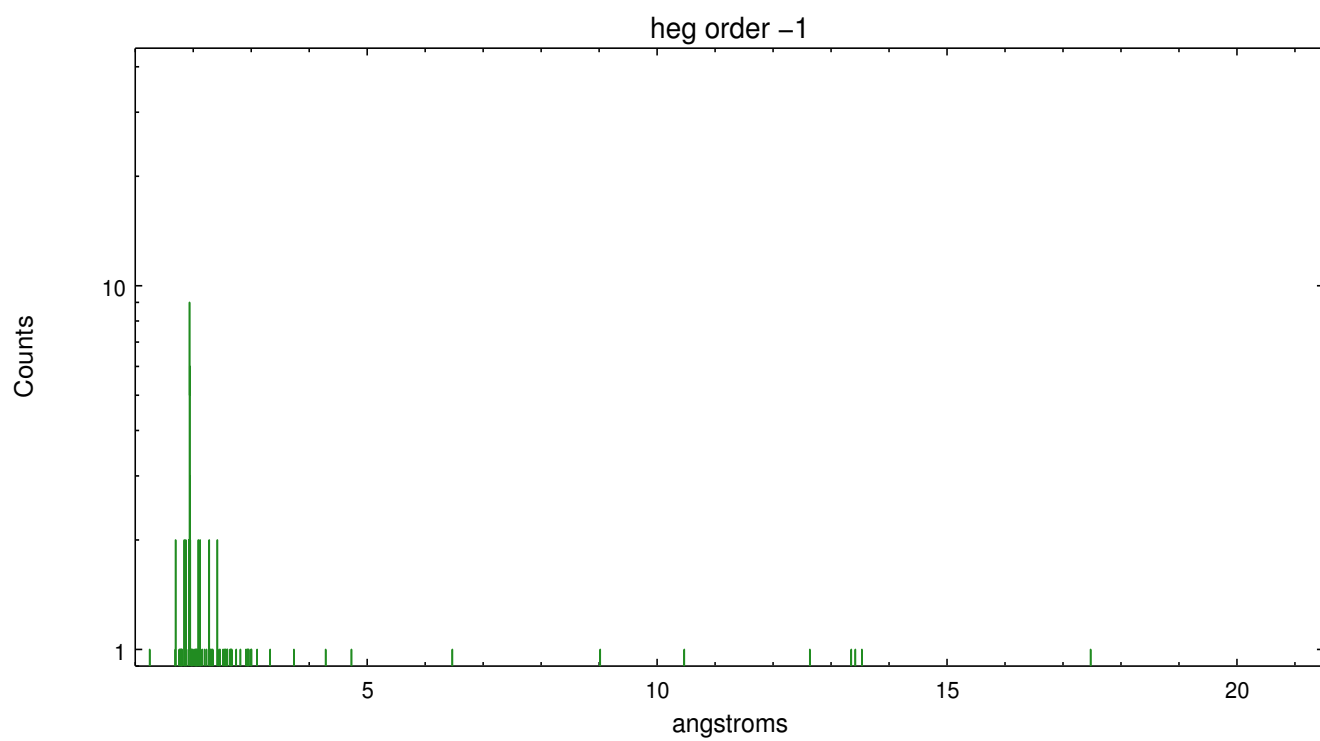
Spot Image HEG



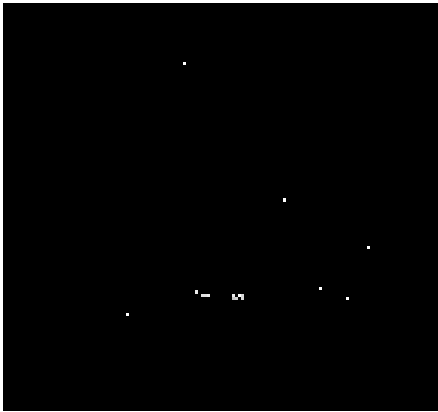
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	105	107	213	1096	168	59	67

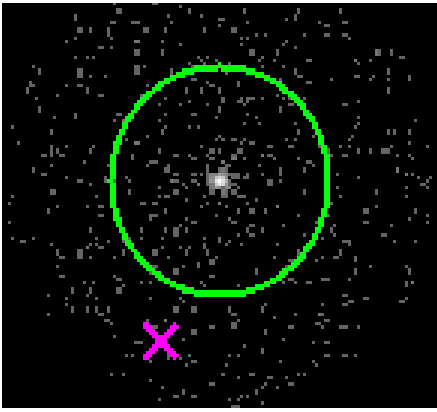




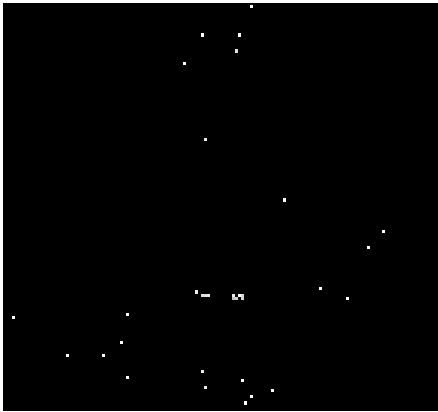
3.2 MEG Arm



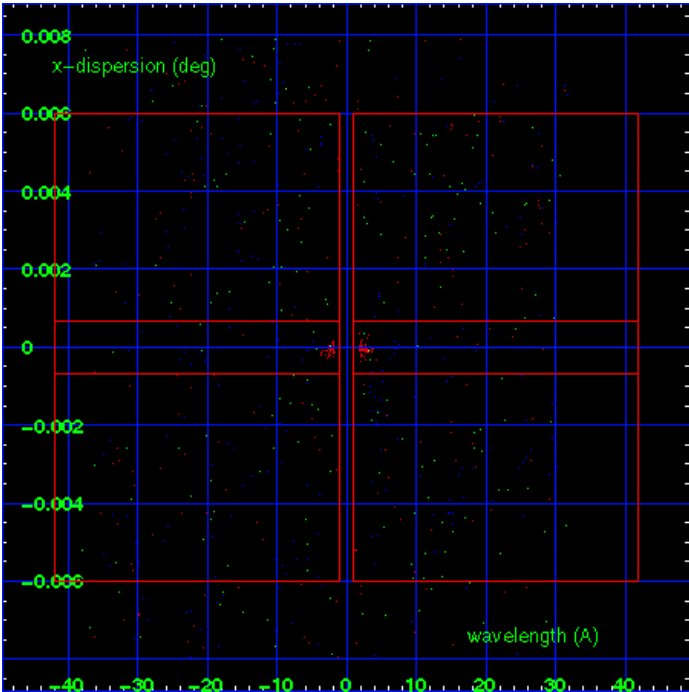
MEG Order Sort 123



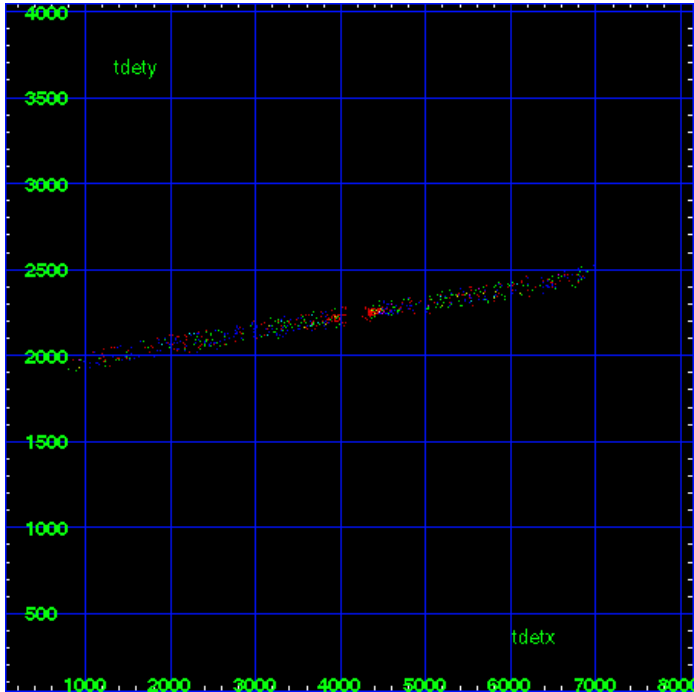
MEG Zero Order



MEG Order Sort ALL

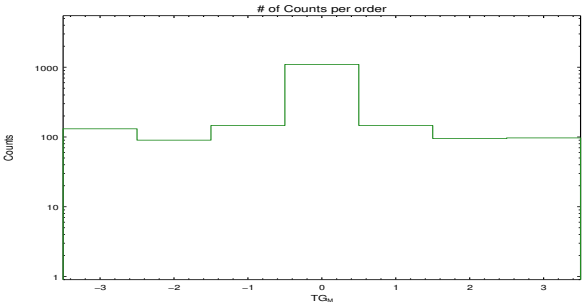


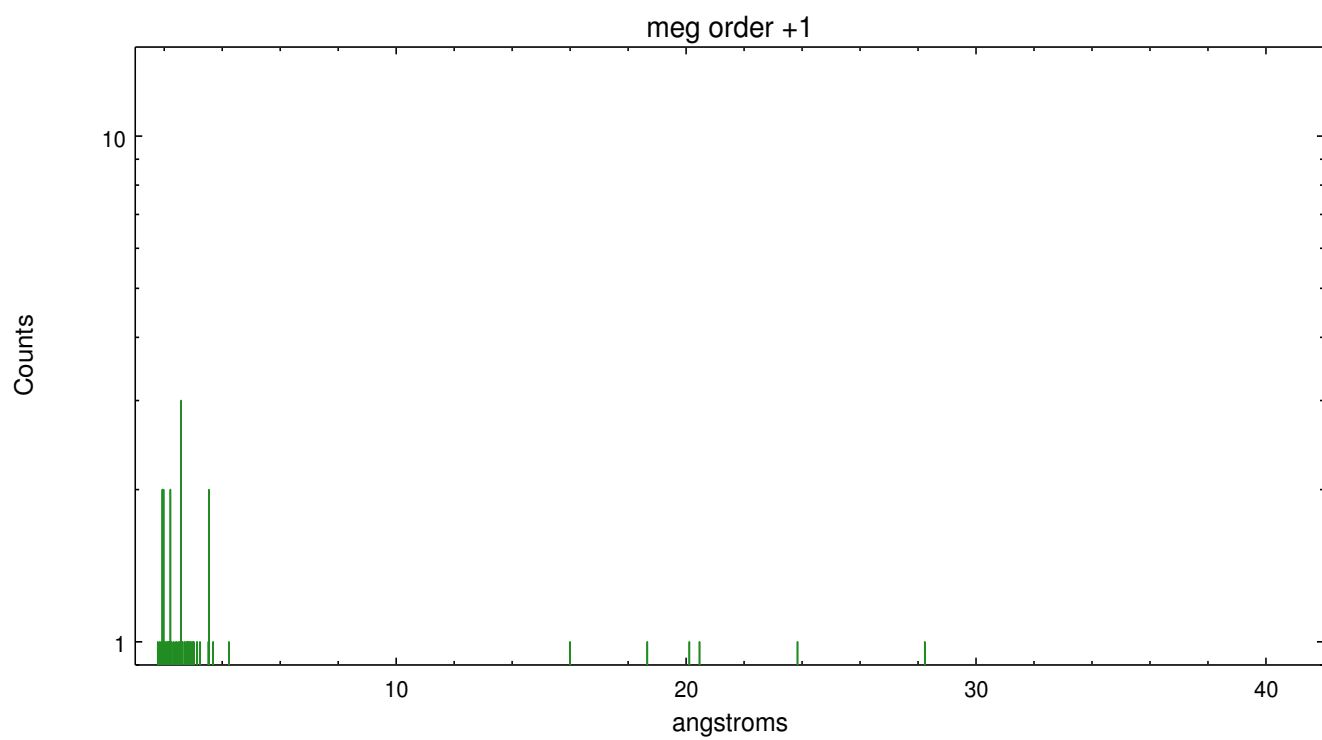
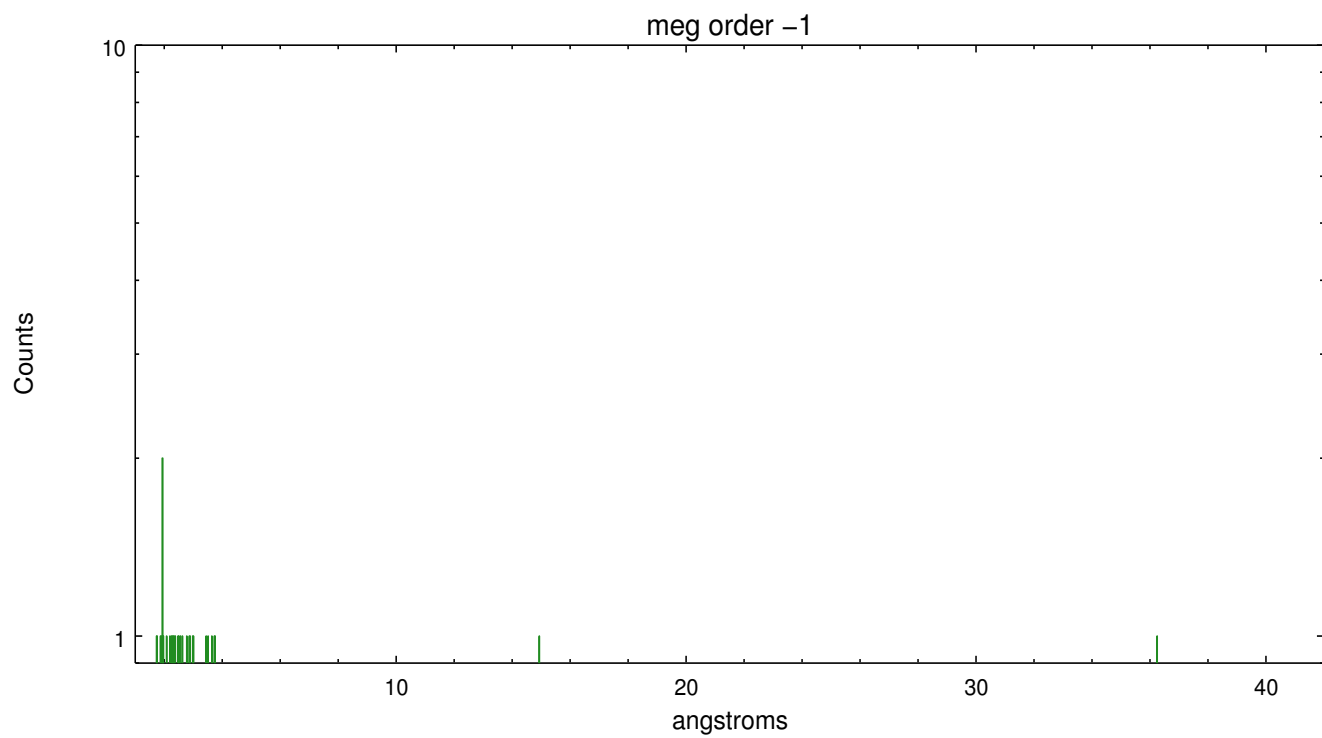
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	131	90	146	1096	146	95	97





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.755

A.2 Comments