

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2690 - L2 Version 001
Chandra X-Ray Center

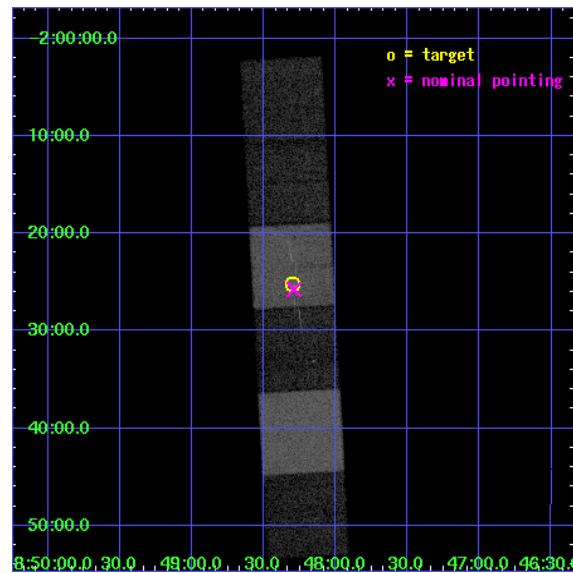
L2 Processing Date : Dec 6 2006

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1 Front

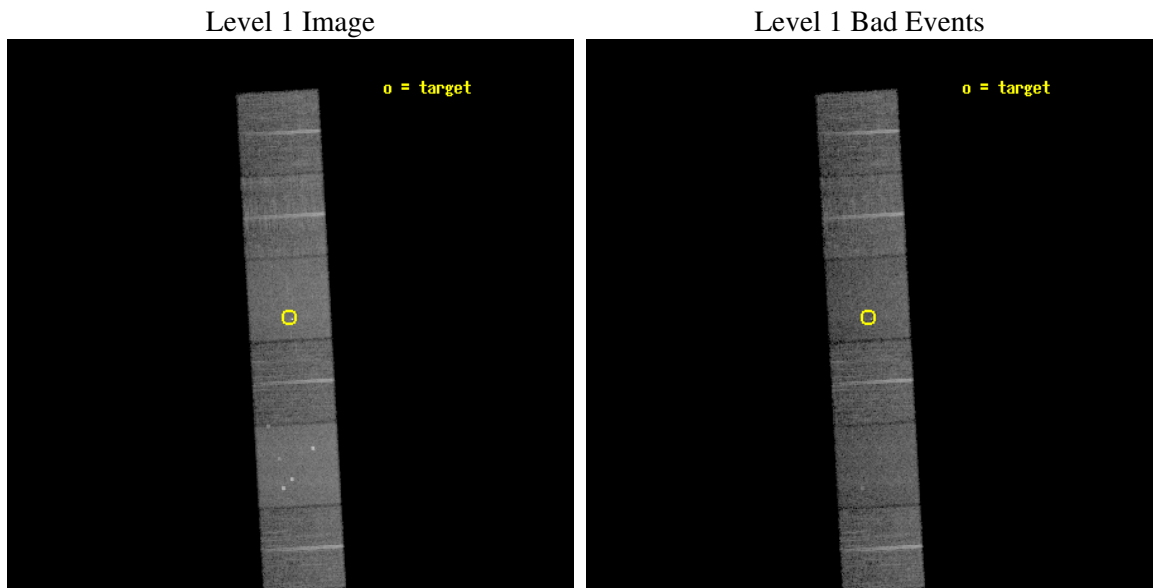
seq_num	400170
obs_id	2690
title	OBSERVATIONS OF THE TRANSIENT X-RAY PULSAR 2S 1845-024
observer	Dr. Mark Finger
object	2S 1845-024
dtcycle	0
cycle	P
ra_targ	282.075
dec_targ	-2.42
ra_nom	282.07274789988
dec_nom	-2.4294226802748
roll_nom	266.76873336322
revision	2
ontime	15091.199943781
livetime	14900.106083263
ontime4	15091.199943781
ontime5	15091.199943781
ontime6	15091.199943781
ontime7	15091.199943781
ontime8	15091.199943781
ontime9	15091.199943781
l2events	141983



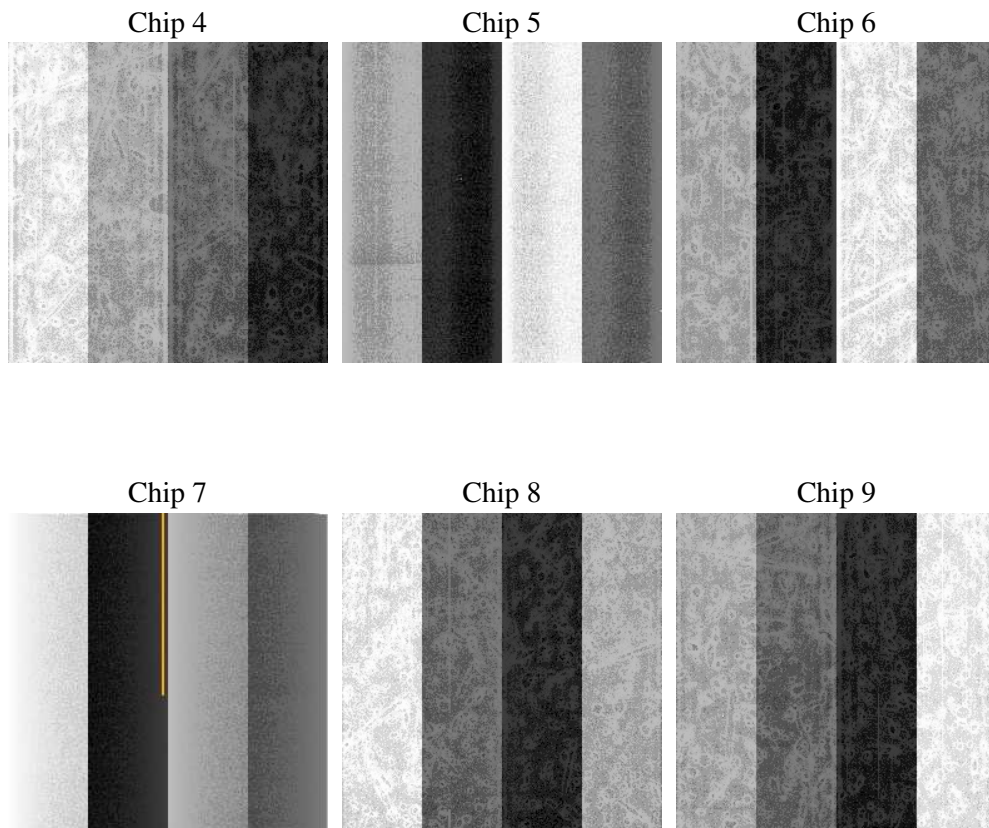
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.9
caldsver	3.2.3
date	2006-10-04T08:57:06
revision	2

sched_exp_time	14925.026000
ontime	16418.928198487
ontime4	16418.928198487
ontime5	16418.928198487
ontime6	16418.928198487
ontime7	16418.928198487
ontime8	16418.928198487
ontime9	16418.928198487
l1events	724227

2.1.4 Events

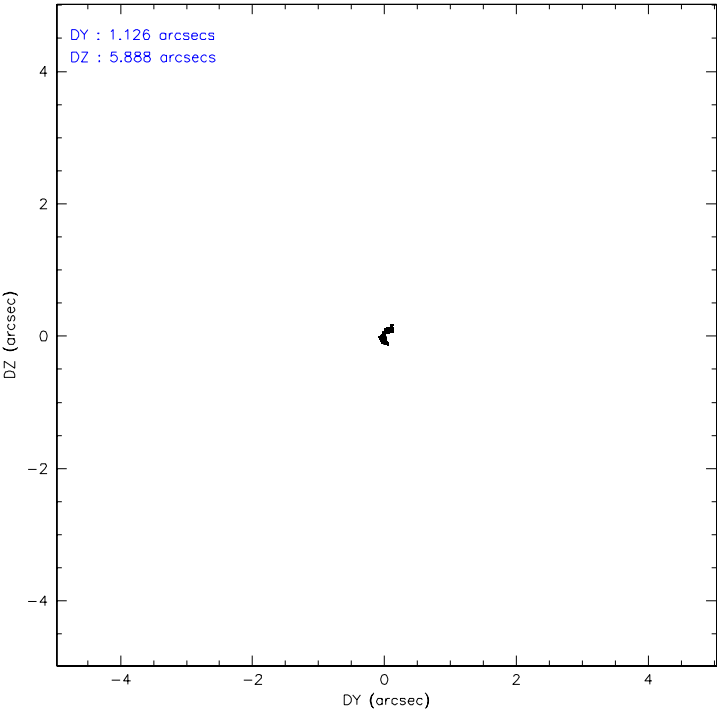
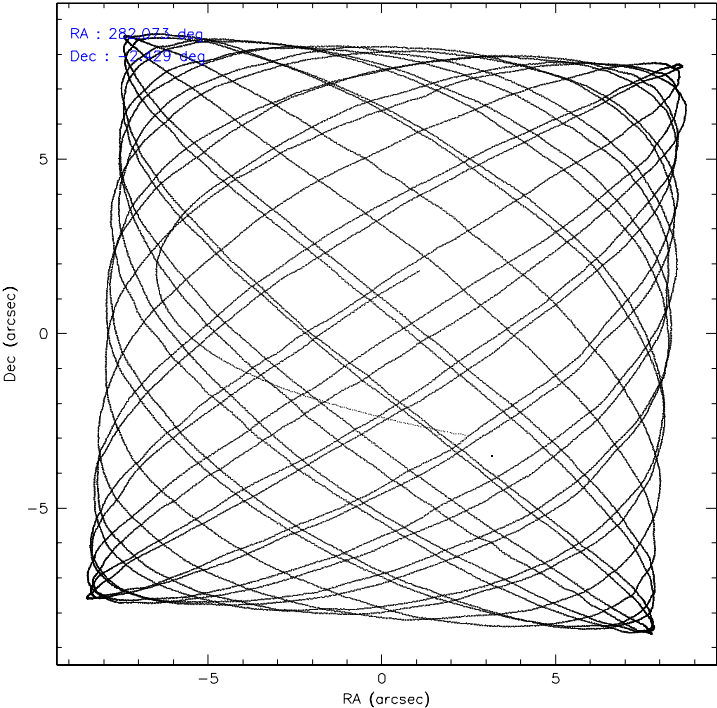
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	111968	147412	104444	133731	126103	100569
rejected events	100594	87016	93096	85215	102537	89165
rejected %	89%	59%	89%	63%	81%	88%

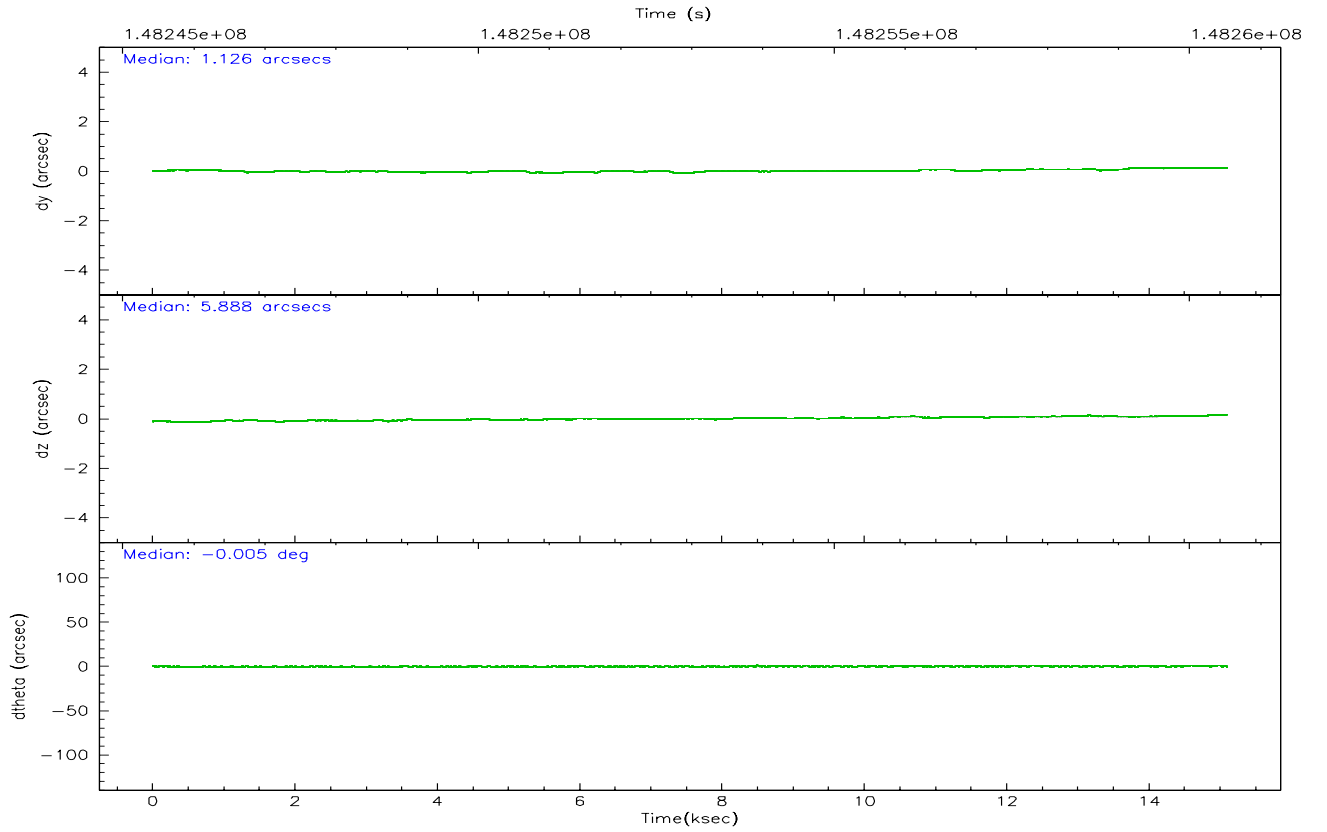
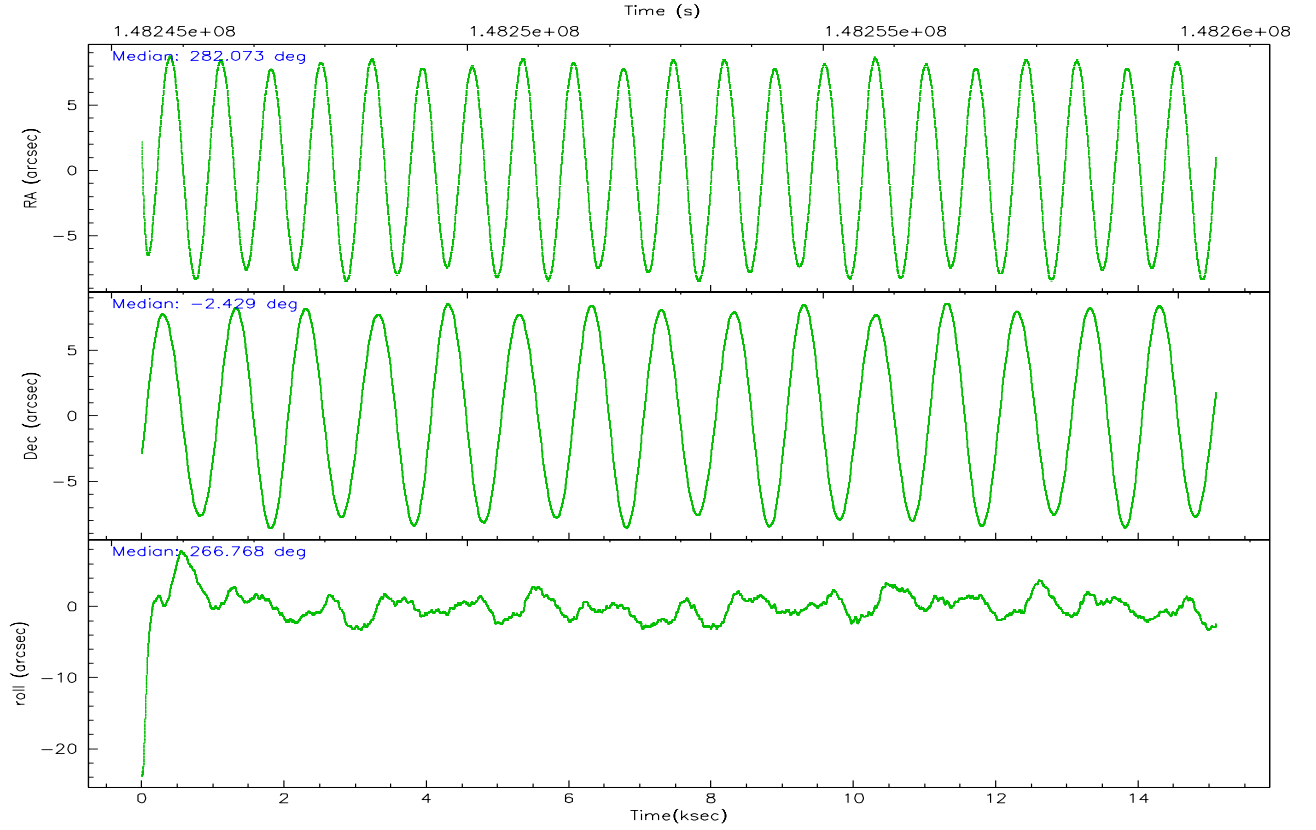
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	5495	7137	4986	3251	8361	5146
	4%	4%	4%	2%	6%	5%
grade 1 events	88	320	50	94	91	57
	0%	0%	0%	0%	0%	0%
grade 2 events	2608	19375	2383	13253	5675	2370
	2%	13%	2%	9%	4%	2%
grade 3 events	1202	1471	1250	2775	2752	1206
	1%	0%	1%	2%	2%	1%
grade 4 events	1191	1444	1264	2652	2560	1267
	1%	0%	1%	1%	2%	1%
grade 5 events	4197	7210	4503	8960	5826	4845
	3%	4%	4%	6%	4%	4%
grade 6 events	1894	36581	2424	30799	6442	2504
	1%	24%	2%	23%	5%	2%
grade 7 events	95293	73874	87584	71947	94396	83174
	85%	50%	83%	53%	74%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
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
Pointing RA	282.060166	282.0727478998786	Subarray requested	NONE	NONE
Pointing Dec	-2.405265	-2.429422680274767	Alternating exposures requested	N	N
Pointing Roll	266.611591	266.7687333632248	Primary exposure time	0.000000	3.2
Window start time	147972664.184000	147972664.184000			
Window stop time	148318264.184000	148318264.184000			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	148245600.184000	148243874.53389			
Observation start date	2002-09-12T19:18:56	2002-09-12T18:51:14			
Observation end time	148260525.184000	148260839.30959			
Observation end date	2002-09-12T23:27:41	2002-09-12T23:33:59			
Read mode	TIMED	TIMED			

2.3 Aspect



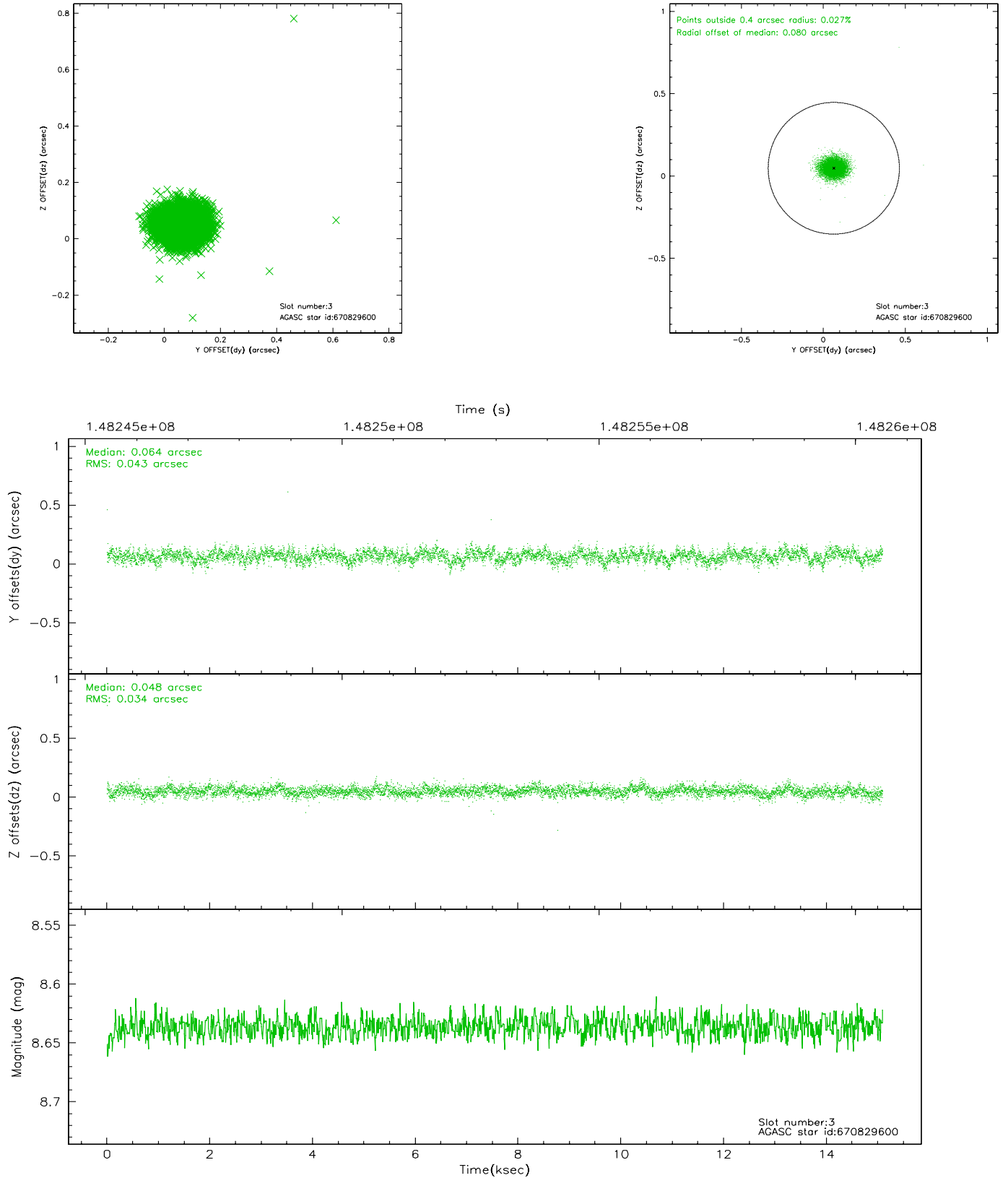


Slot Statistics

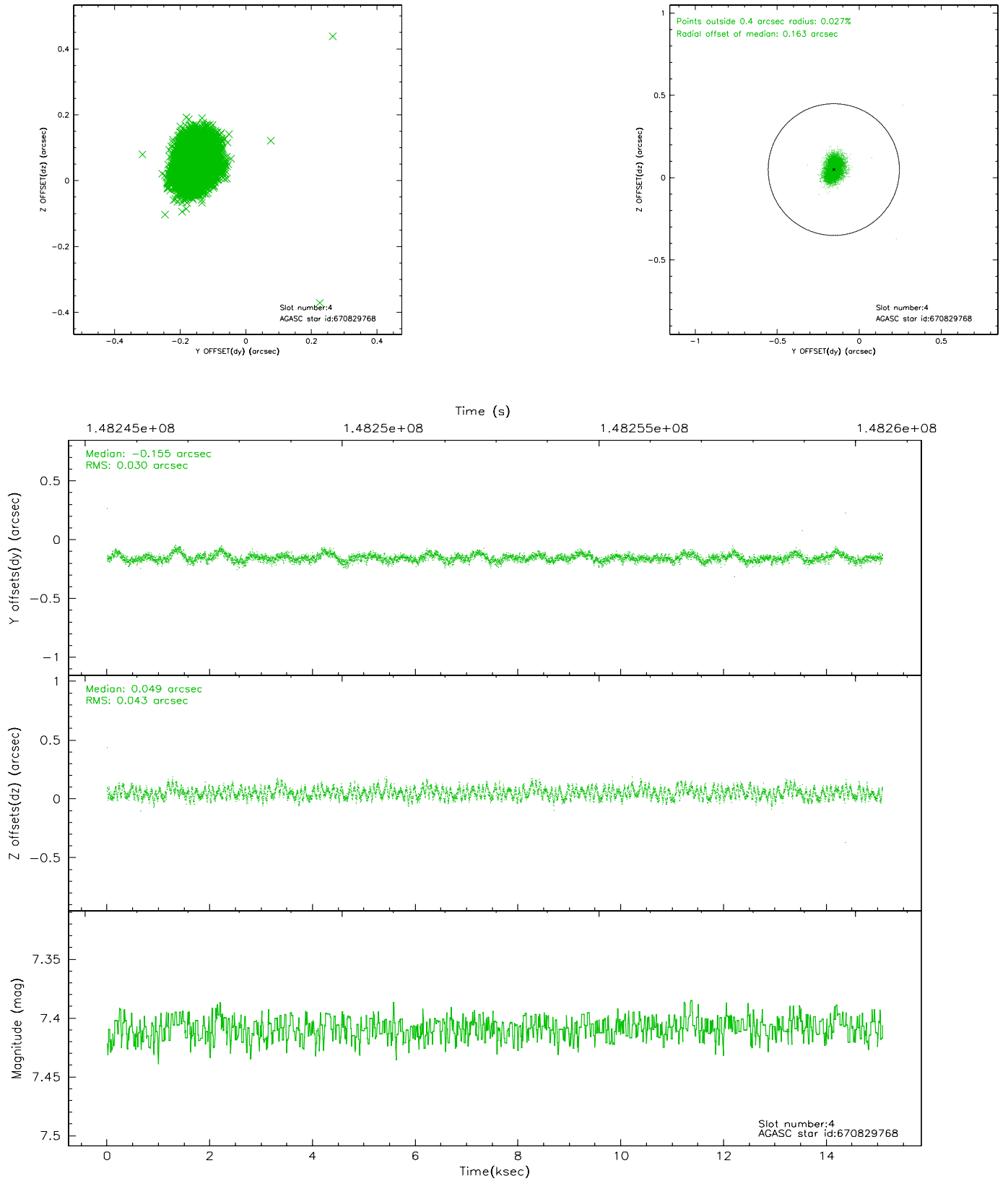
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	3681	-0.045	0.029	0.007	0.011	0.000000	0.000000	-753.74	-1727.02
1	FID	ACIS-S-4	7.21	3682	-0.033	0.014	0.005	0.010	0.000000	0.000000	2159.38	181.20
2	FID	ACIS-S-5	7.24	3682	0.046	-0.034	0.006	0.010	0.000000	0.000000	-1806.14	175.08
3	GUIDE	670829600	8.64	7362	0.064	0.048	0.057	0.093	282.227270	-3.031765	2217.18	733.87
4	GUIDE	670829768	7.41	7364	-0.155	0.049	0.055	0.088	281.927934	-2.010470	-1389.37	-558.02
5	GUIDE	670827848	9.71	7355	0.112	0.103	0.113	0.184	282.233886	-2.502228	312.63	645.18
6	GUIDE	670827744	9.52	7352	0.085	-0.148	0.086	0.142	281.699180	-2.020401	-1304.93	-1377.68
7	GUIDE	670827280	9.41	7358	-0.110	-0.052	0.116	0.175	281.434708	-1.976010	-1408.10	-2337.33

2.4 Star Slots

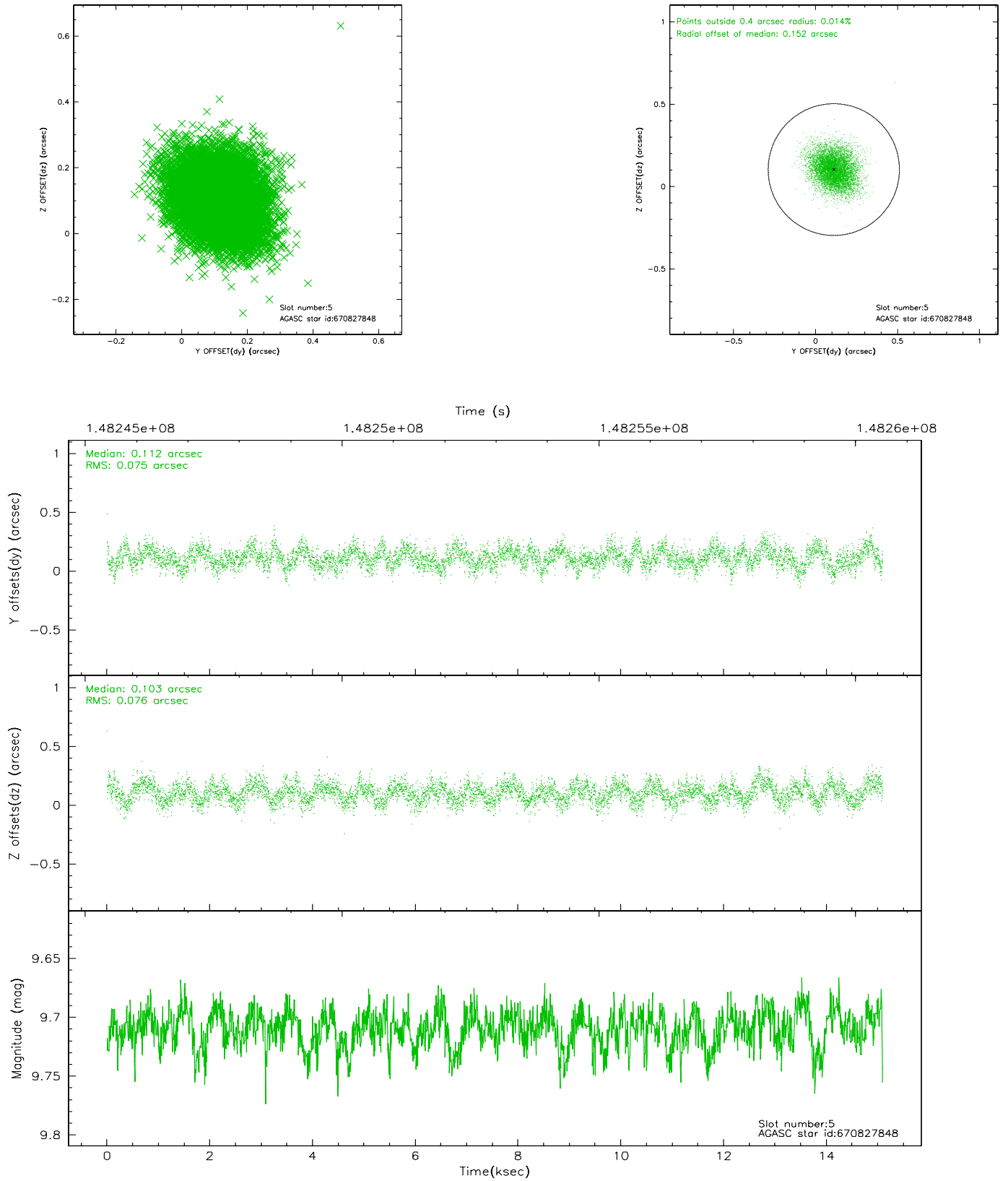
2.4.1 Slot 3



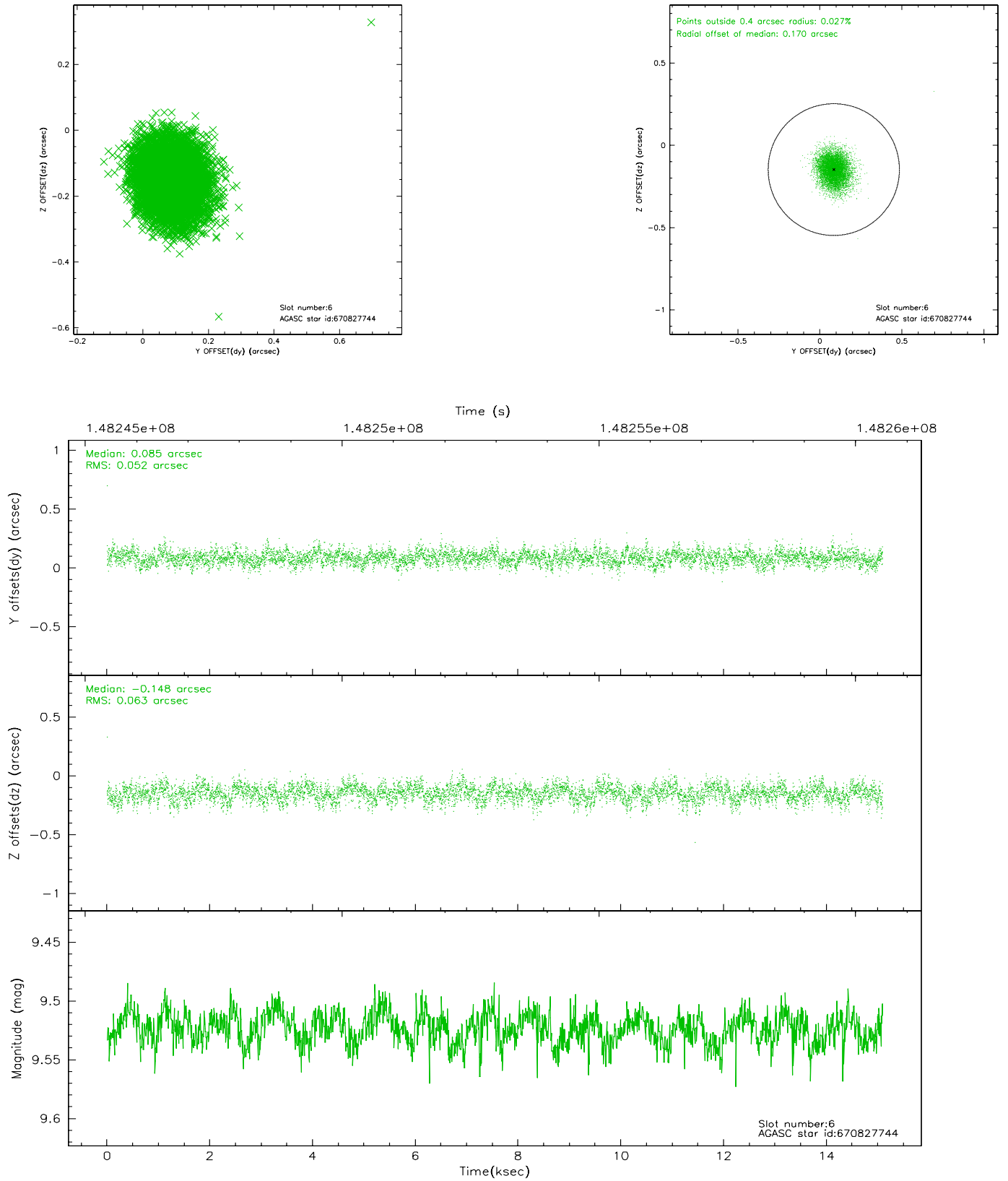
2.4.2 Slot 4



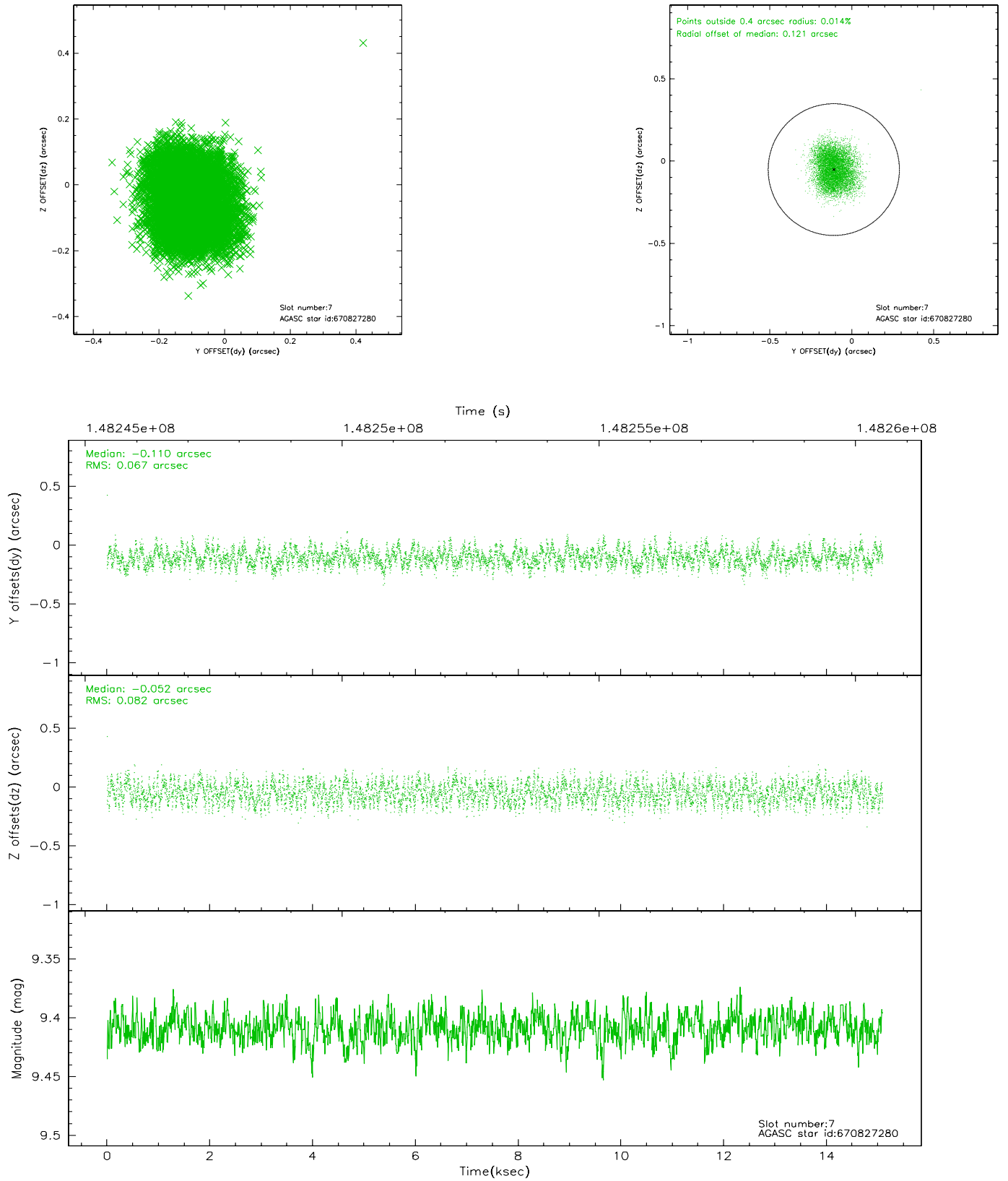
2.4.3 Slot 5



2.4.4 Slot 6

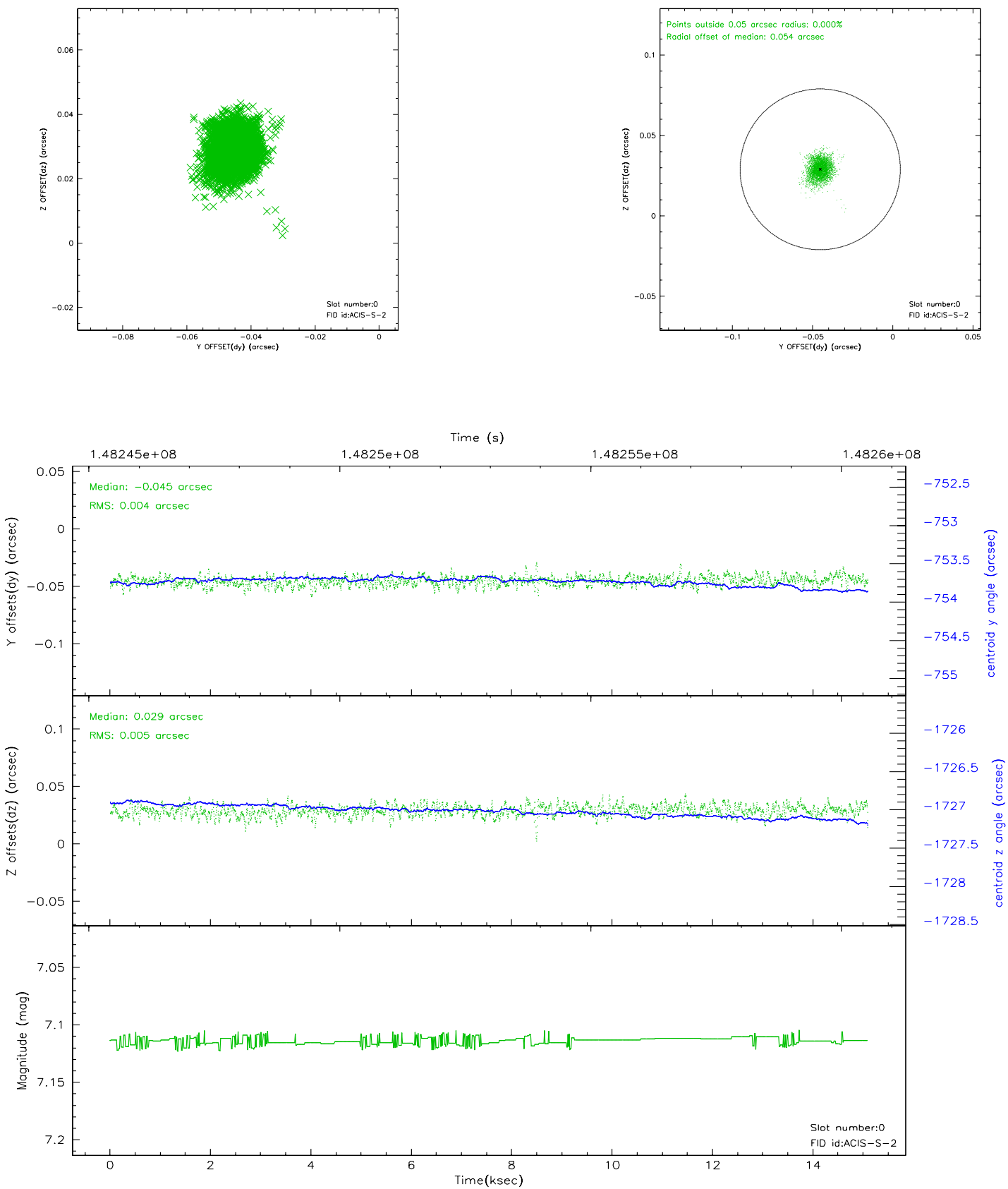


2.4.5 Slot 7

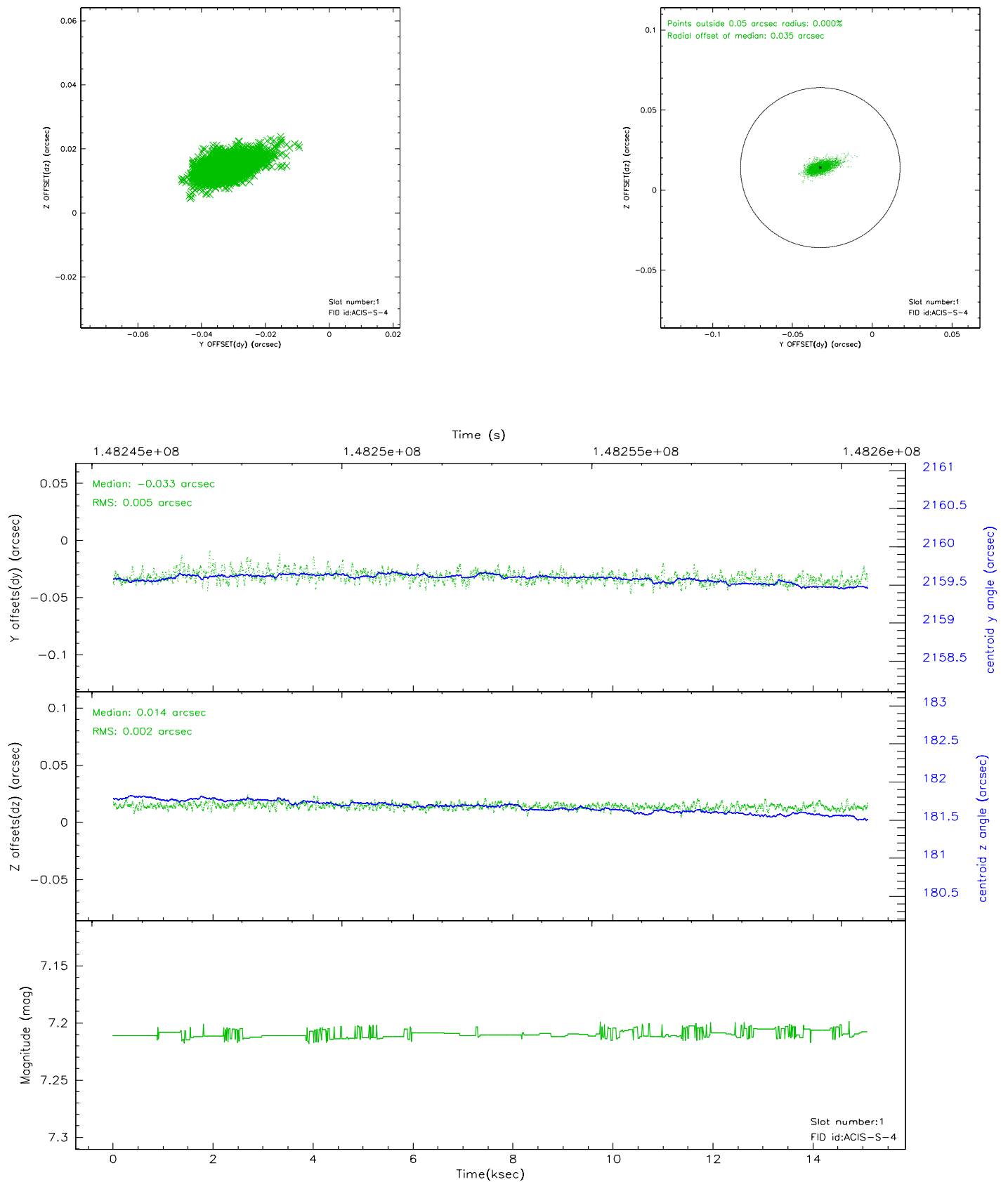


2.5 FID Slots

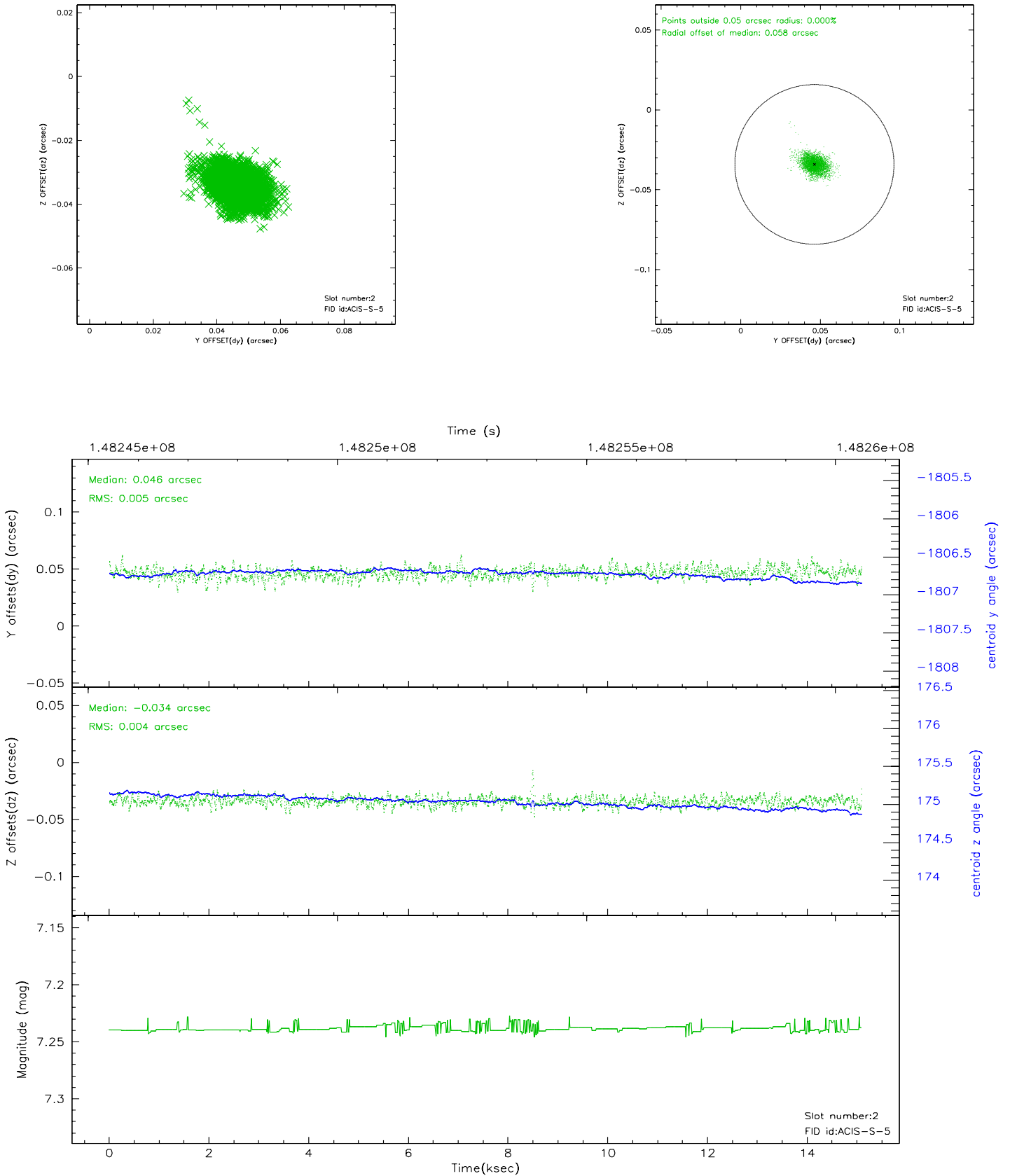
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

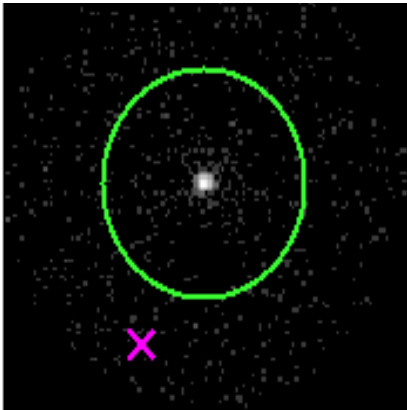


3 Gratings

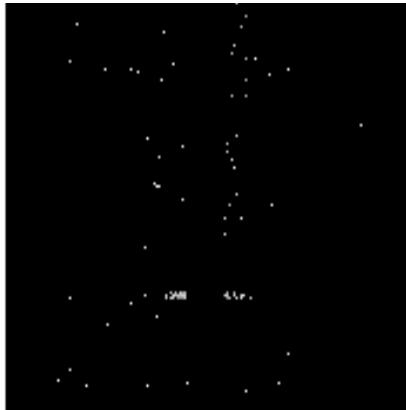
3.1 HEG Arm



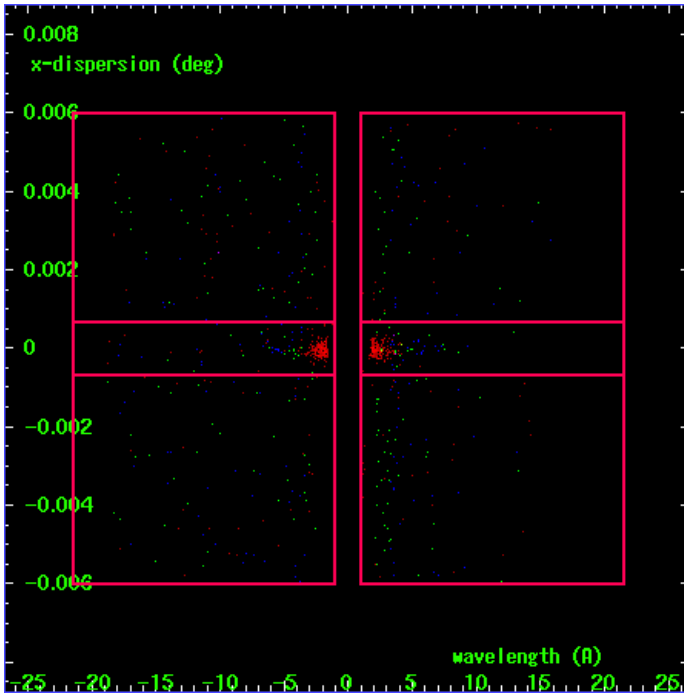
HEG Order Sort 123



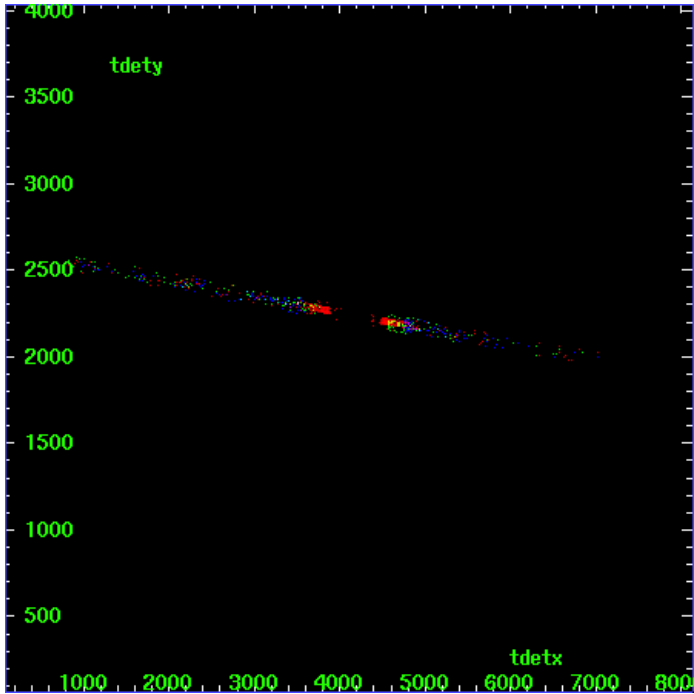
HEG Zero Order



HEG Order Sort ALL

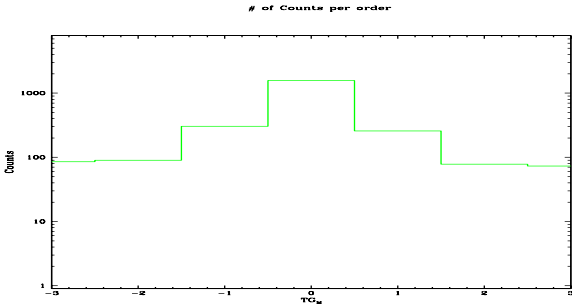


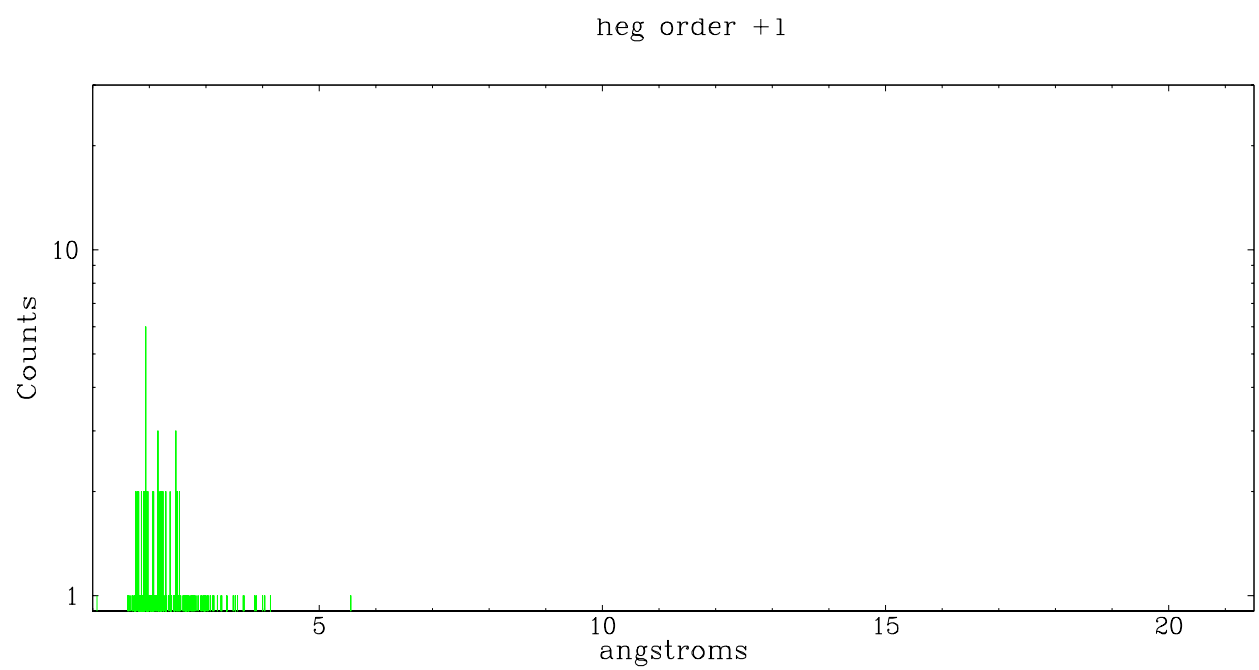
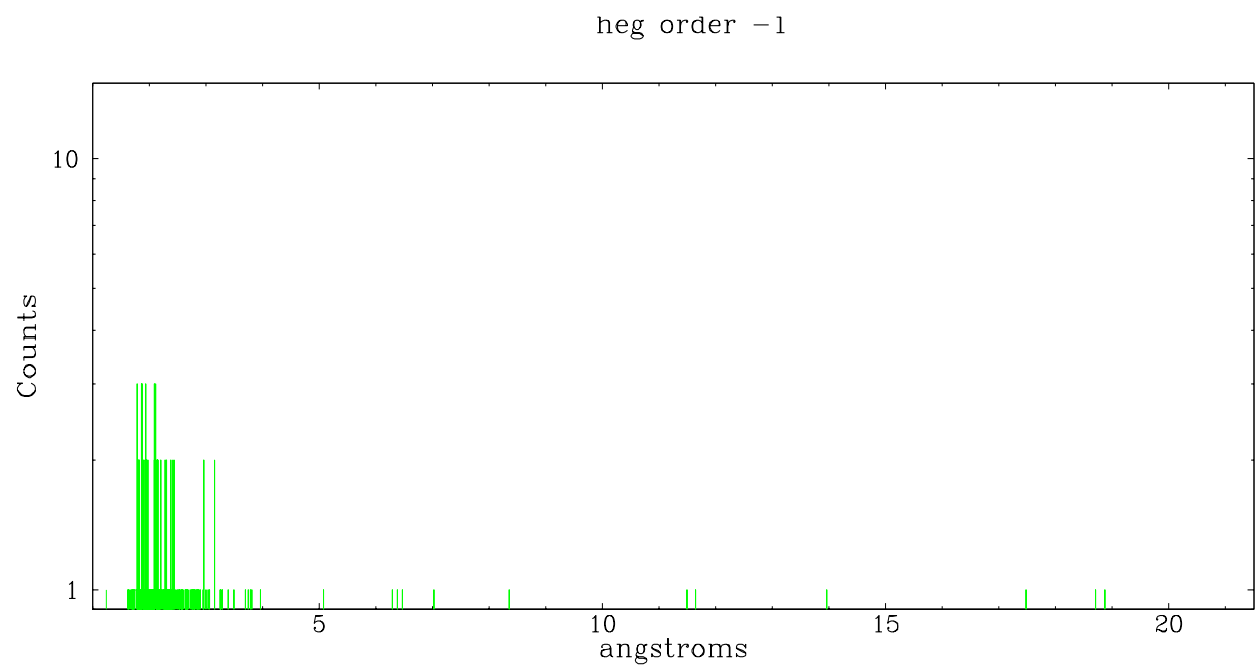
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	85	90	304	1571	258	78	73

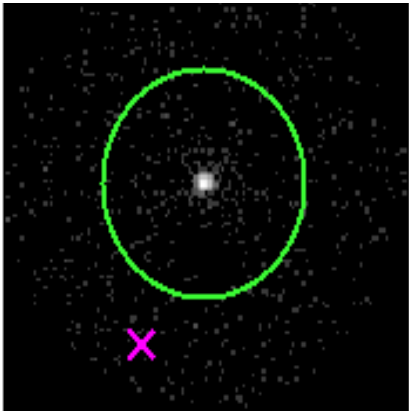




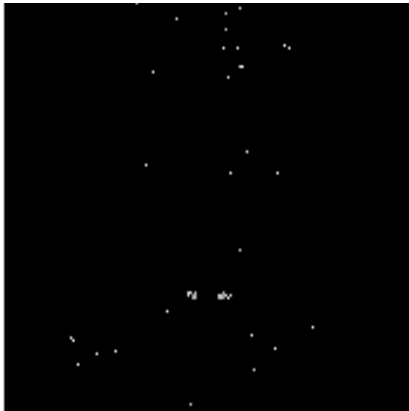
3.2 MEG Arm



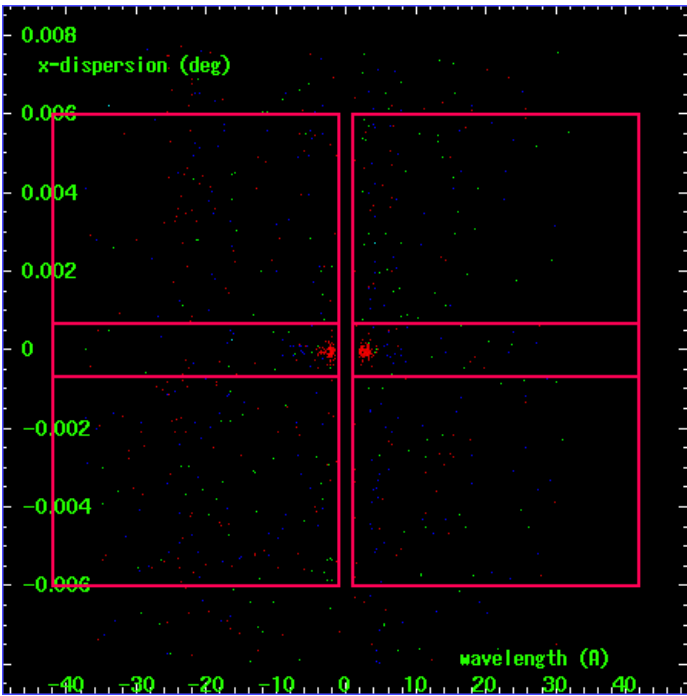
MEG Order Sort 123



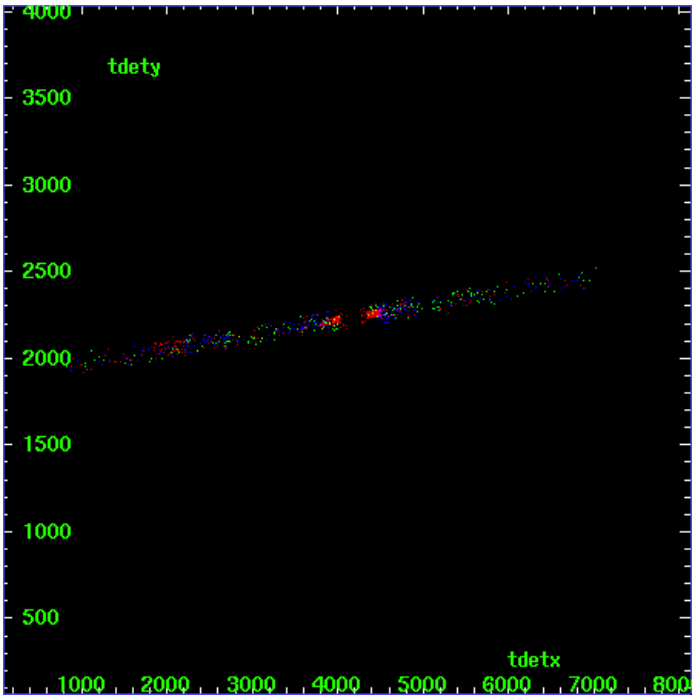
MEG Zero Order



MEG Order Sort ALL

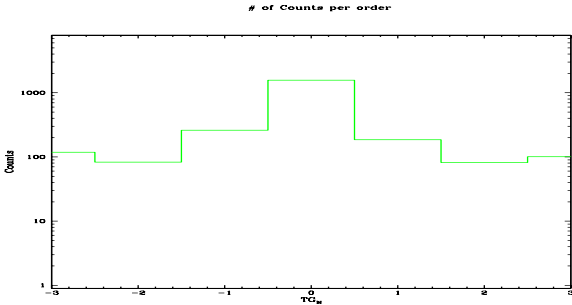


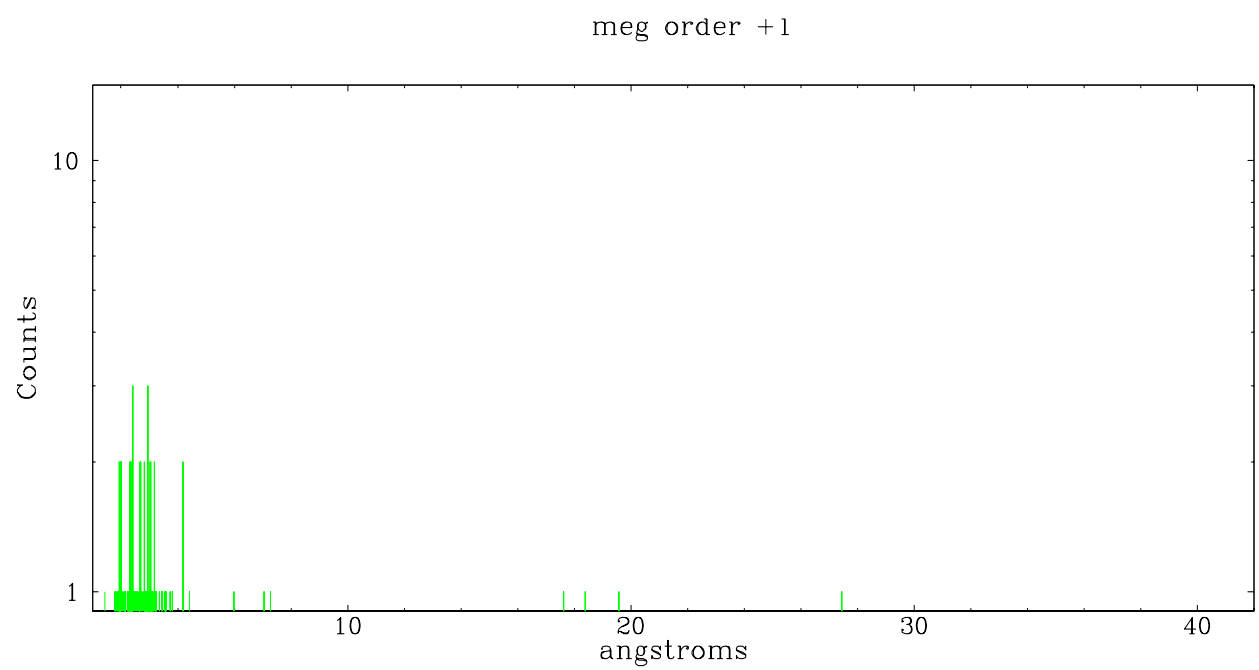
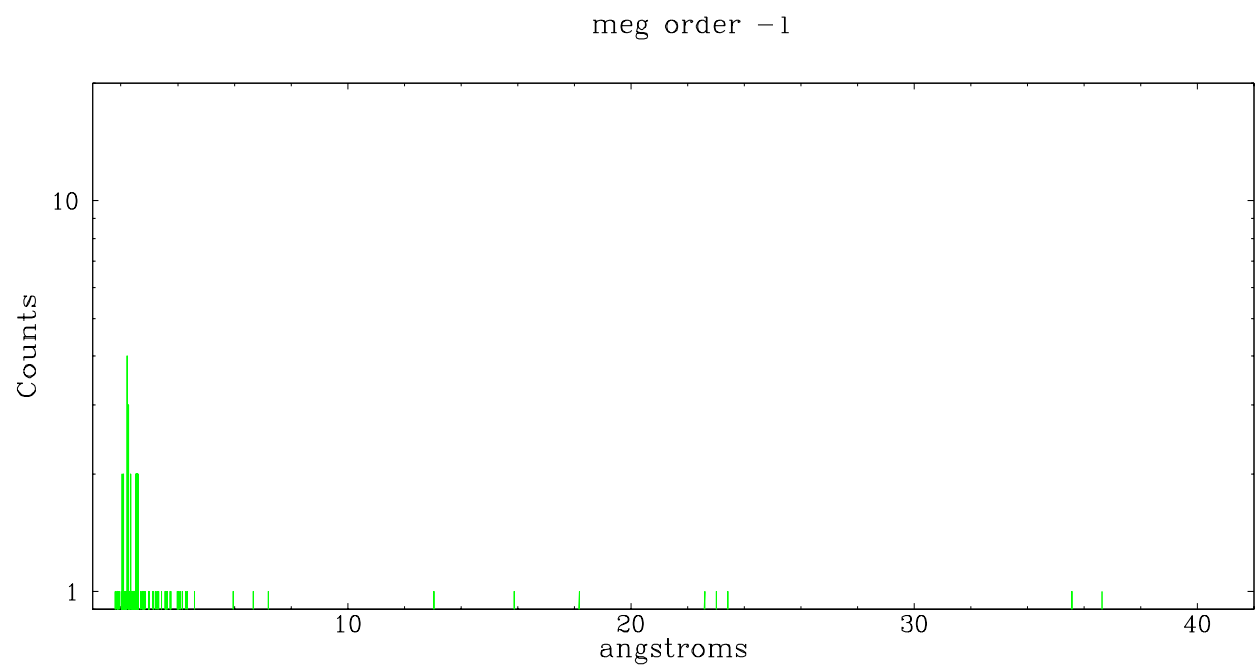
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	118	83	260	1571	185	82	101





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.12.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.091

A.2 Comments