

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2429 - L2 Version 001
Chandra X-Ray Center

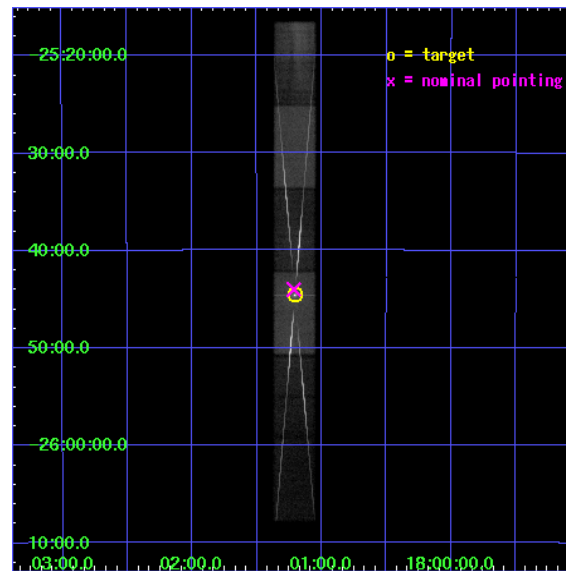
L2 Processing Date : Nov 16 2006

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

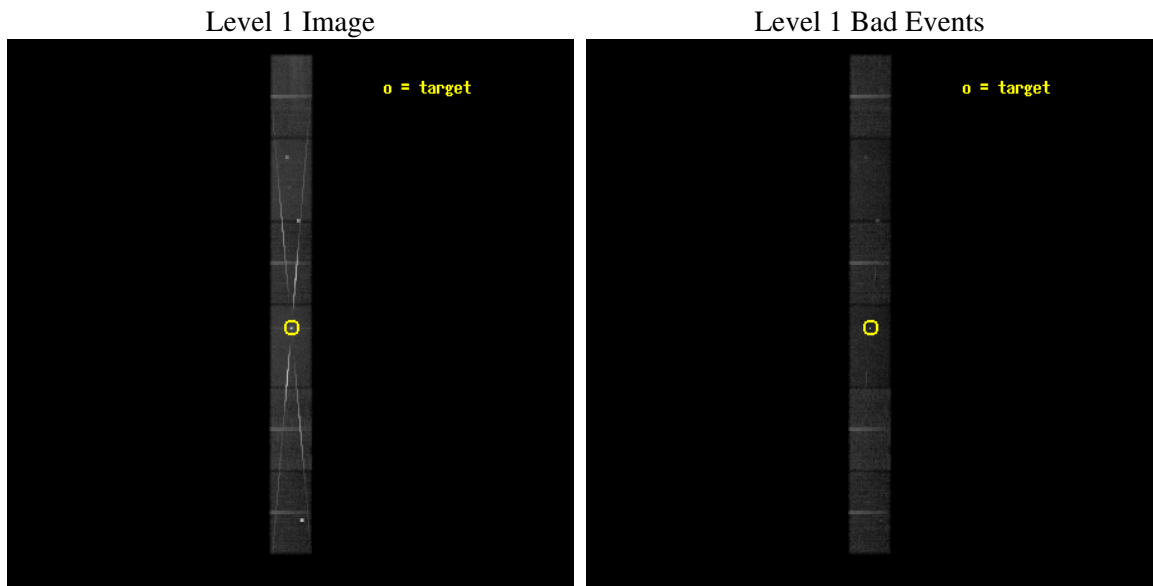
seq_num	400163
obs_id	2429
title	HIGH RESOLUTION SPECTROSCOPY OF THE POSSIBLE JETS IN GRS 1758-258
observer	Dr. William Heindl
object	GRS 1758-258
dtcycle	0
cycle	P
ra_targ	270.301667
dec_targ	-25.743306
ra_nom	270.30359652237
dec_nom	-25.733671211174
roll_nom	90.091759220115
revision	2
ontime	30317.759072989
liveltime	29603.105284245
ontime4	30319.500053152
ontime5	30317.759072989
ontime6	30317.759072989
ontime7	30317.759072989
ontime8	30319.500053152
ontime9	30317.759072989
l2events	505841



2 OBI

2.1 OBI

2.1.1 Images

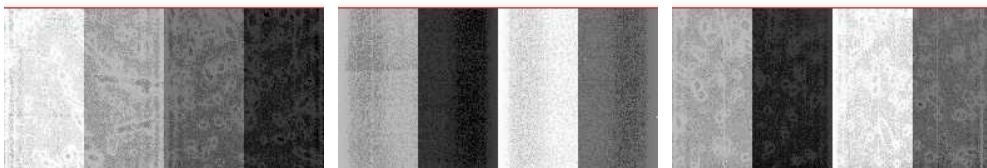


2.1.2 Bias

Chip 4

Chip 5

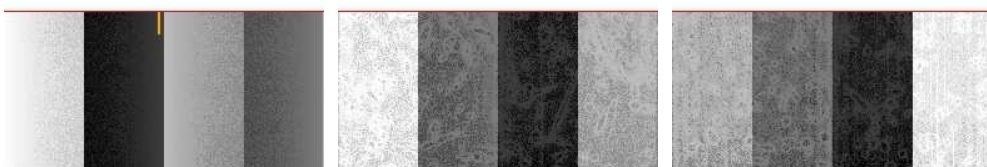
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.4
date	2006-11-15T23:24:15
revision	3

sched_exp_time	30000.000000
ontime	30321.562704414
ontime4	30323.303684577
ontime5	30321.562704414
ontime6	30321.562704414
ontime7	30321.562704414
ontime8	30323.303684577
ontime9	30321.562704414
l1events	1165385

2.1.4 Events

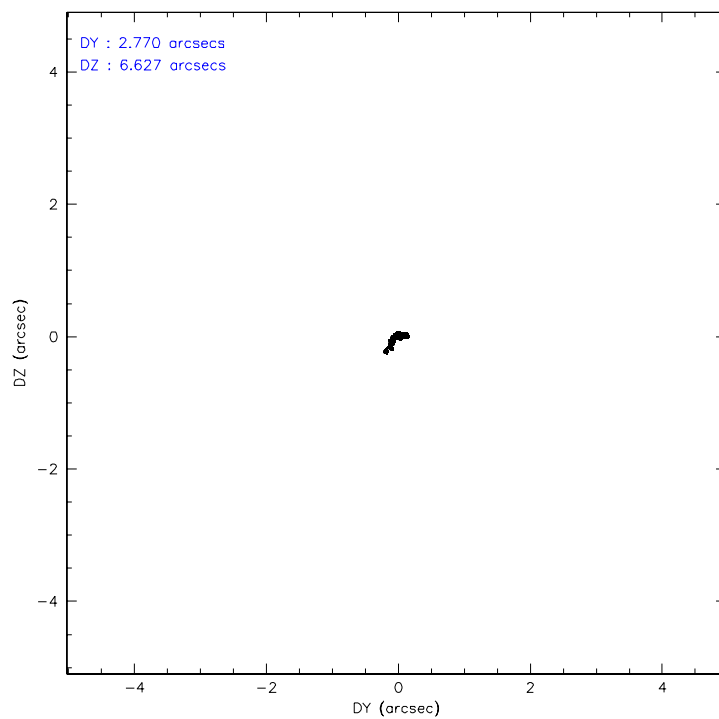
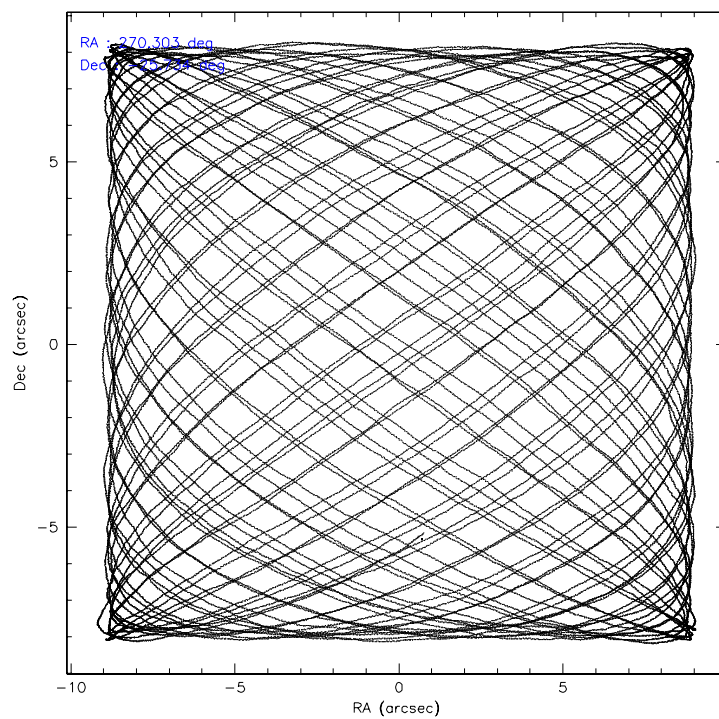
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	177814	188395	221631	248077	197750	131718
rejected events	110568	80680	100070	90206	114302	92273
rejected %	62%	42%	45%	36%	57%	70%

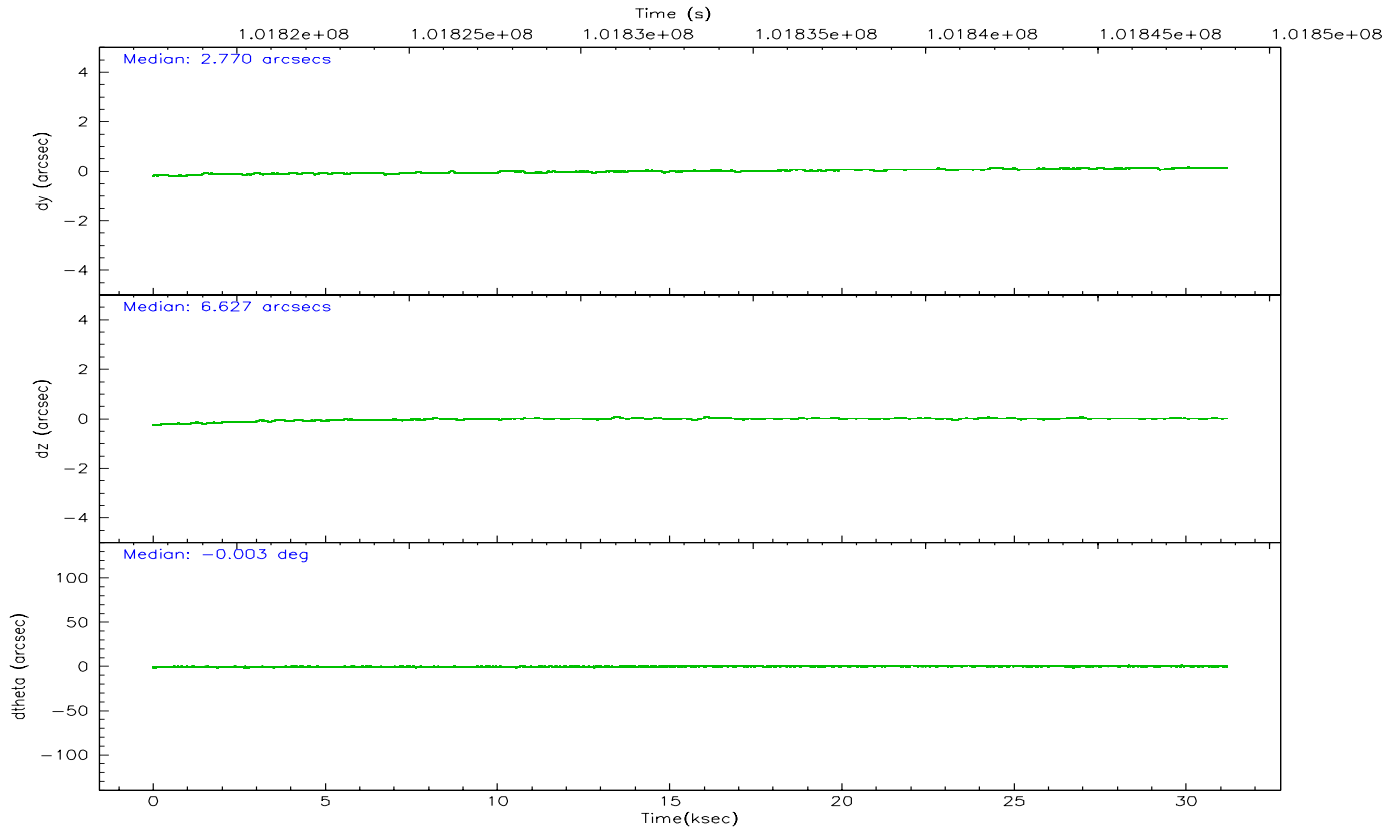
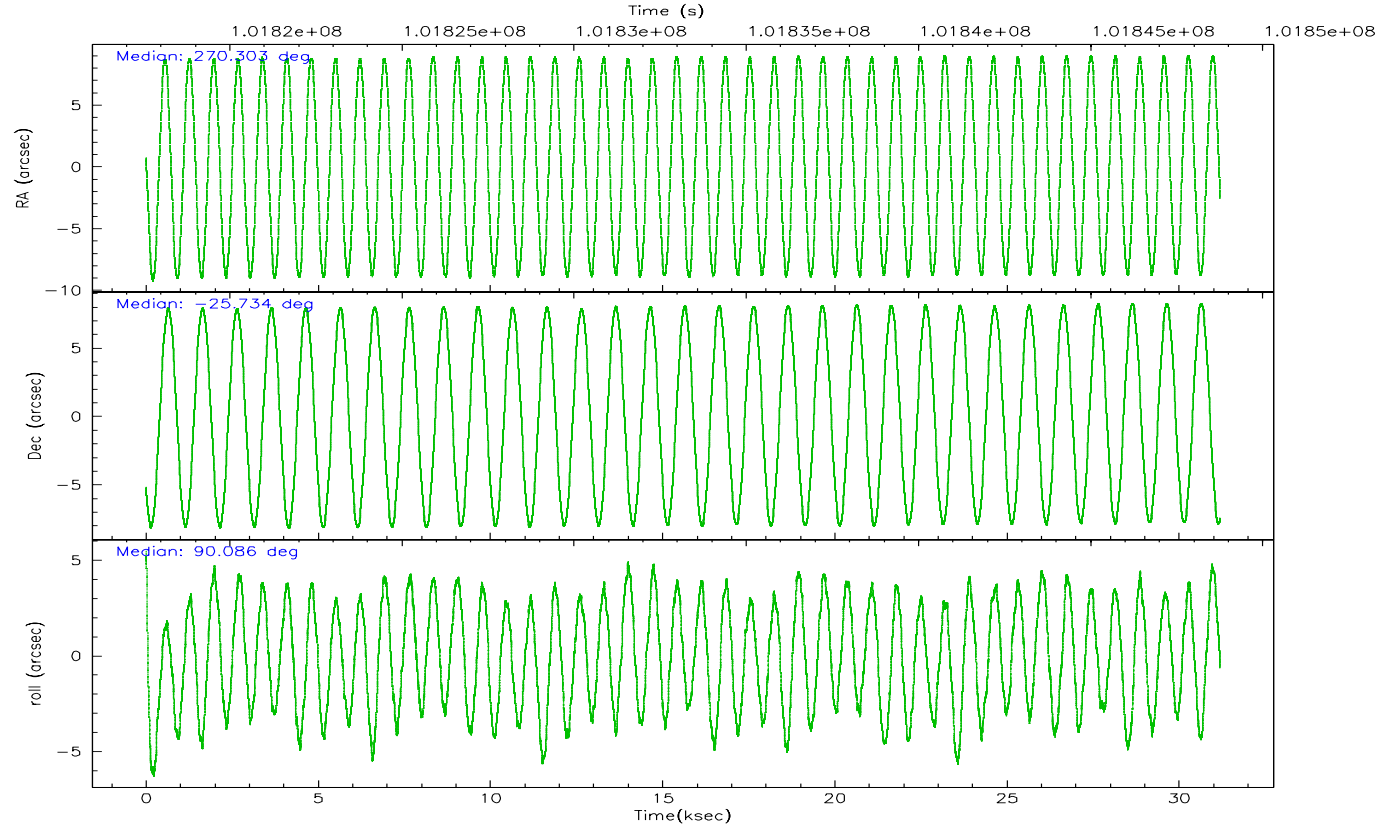
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	47332	18283	91624	25380	53388	28520
	26%	9%	41%	10%	26%	21%
grade 1 events	184	341	468	423	206	69
	0%	0%	0%	0%	0%	0%
grade 2 events	9182	34676	14422	39980	11597	3453
	5%	18%	6%	16%	5%	2%
grade 3 events	3481	5930	5374	15550	5076	1869
	1%	3%	2%	6%	2%	1%
grade 4 events	3486	5550	5480	15281	4860	3127
	1%	2%	2%	6%	2%	2%
grade 5 events	3675	8901	4426	12240	5185	4197
	2%	4%	1%	4%	2%	3%
grade 6 events	3776	43286	4673	61693	8532	2478
	2%	22%	2%	24%	4%	1%
grade 7 events	106698	71428	95164	77530	108906	88005
	60%	37%	42%	31%	55%	66%

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	270.319049	270.3035965223714	Subarray requested	CUSTOM	1/2
Pointing Dec	-25.757159	-25.73367121117421	Subarray start row	1	1
Pointing Roll	89.941844	90.09175922011531	Subarray row count	512	512
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	1.7
SIM translation stage pos (mm)	-184.032523	-184.025251236478			
SIM translation stage offset (mm)	-6.1	-6.107271346529842			
Observation start time	101818759.184000	101817291.53821			
Observation start date	2001-03-24T10:58:15	2001-03-24T10:34:51			
Observation end time	101848759.184000	101849376.60195			
Observation end date	2001-03-24T19:18:15	2001-03-24T19:29:36			
Read mode	TIMED	TIMED			

2.3 Aspect



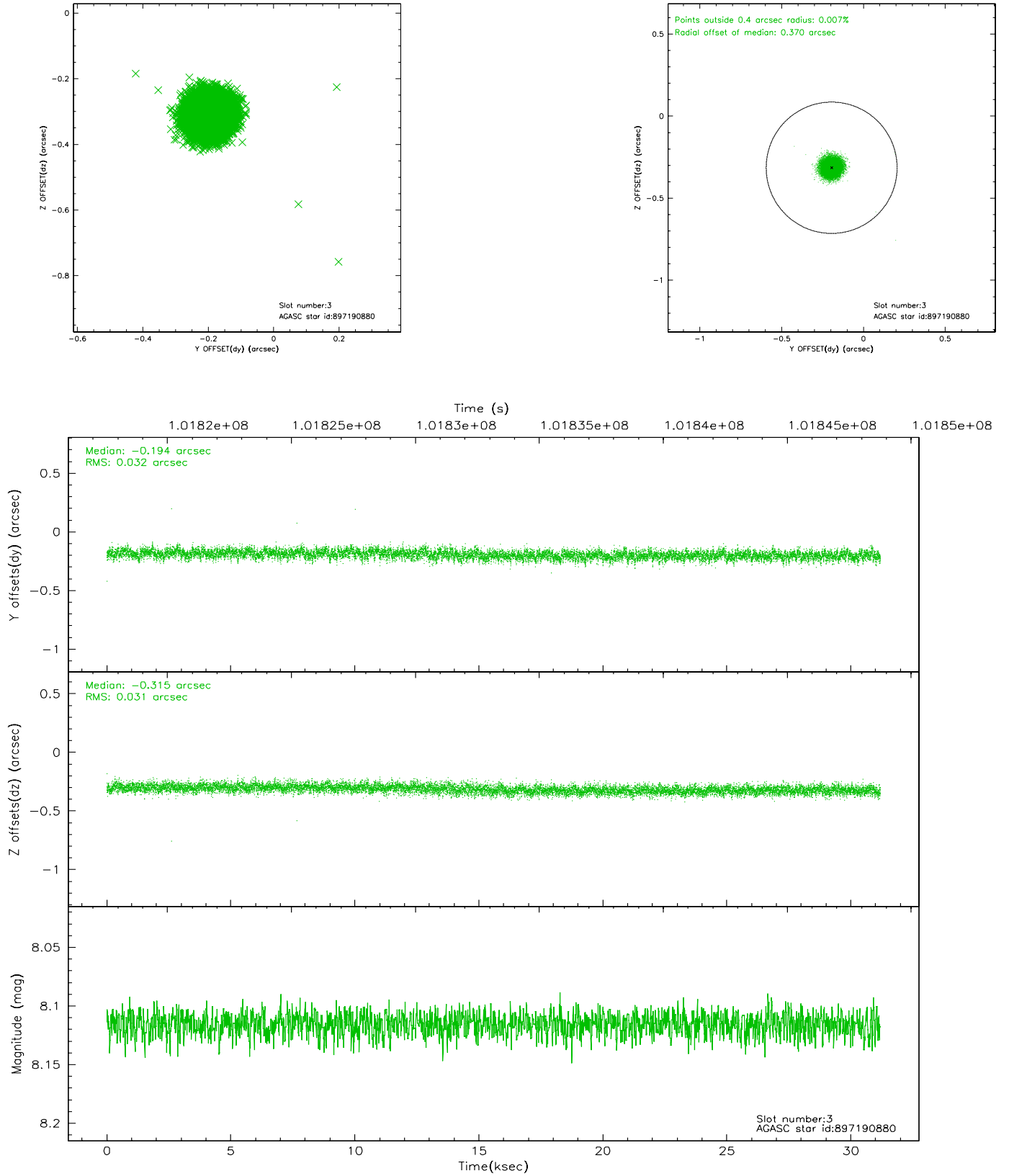


Slot Statistics

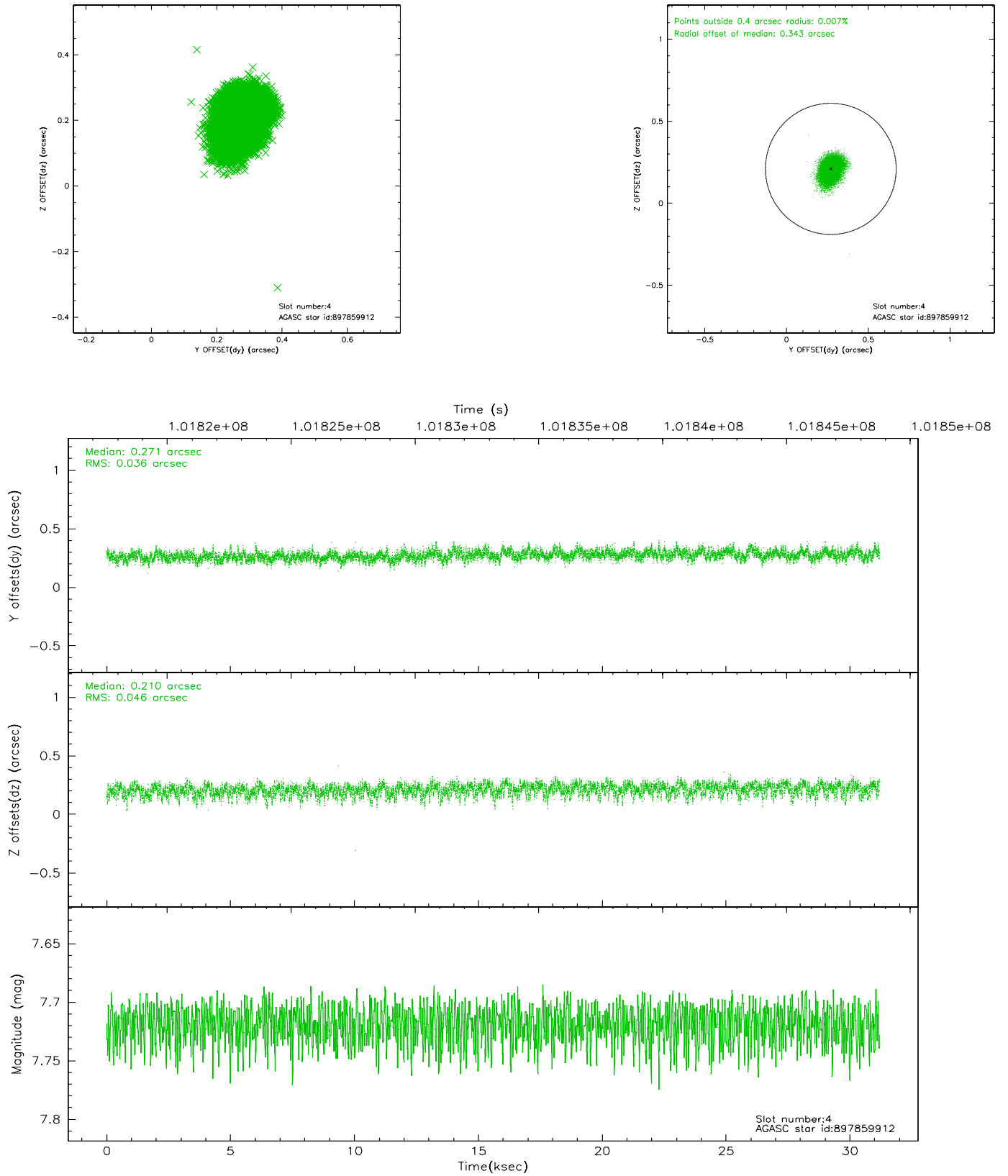
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.08	7608	-0.011	-0.096	0.015	0.023	0.000000	0.000000	-755.01	-1853.73
1	FID	ACIS-S-4	7.18	7608	-0.081	0.031	0.021	0.030	0.000000	0.000000	2158.20	54.75
2	FID	ACIS-S-5	7.23	7609	0.058	0.075	0.015	0.021	0.000000	0.000000	-1807.68	48.59
3	GUIDE	897190880	8.12	15213	-0.194	-0.315	0.047	0.076	269.584058	-25.142408	2203.33	2397.09
4	GUIDE	897859912	7.72	15214	0.271	0.210	0.061	0.101	270.849161	-26.319822	-2027.17	-1712.97
5	GUIDE	897326672	8.22	15211	0.222	-0.091	0.048	0.078	270.237029	-26.222744	-1676.78	262.39
6	GUIDE	897326256	8.25	15216	-0.138	0.425	0.062	0.096	271.063775	-25.425801	1188.18	-2420.04
7	GUIDE	897188632	8.64	15208	-0.162	-0.226	0.066	0.105	269.725883	-25.281908	1704.02	1931.99

2.4 Star Slots

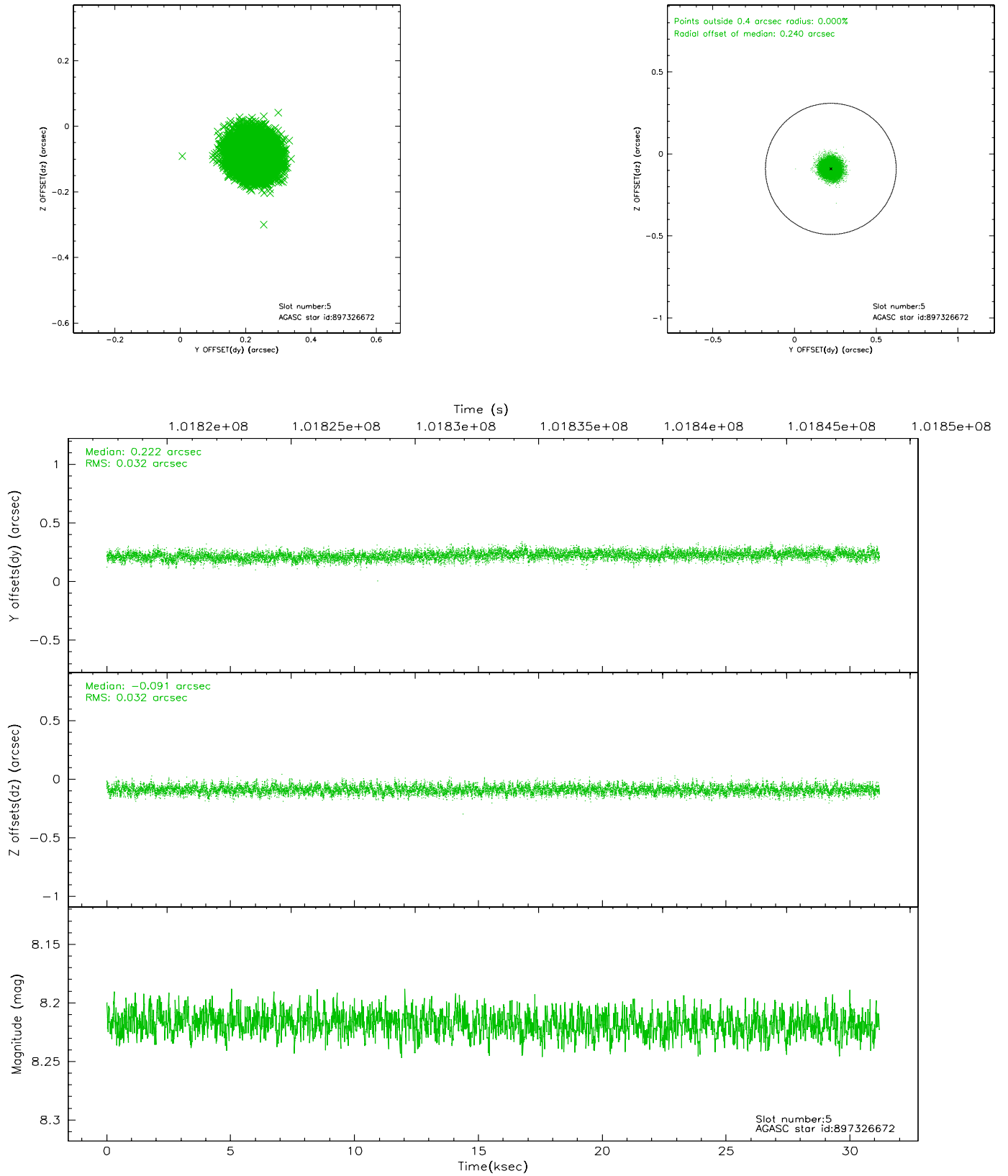
2.4.1 Slot 3



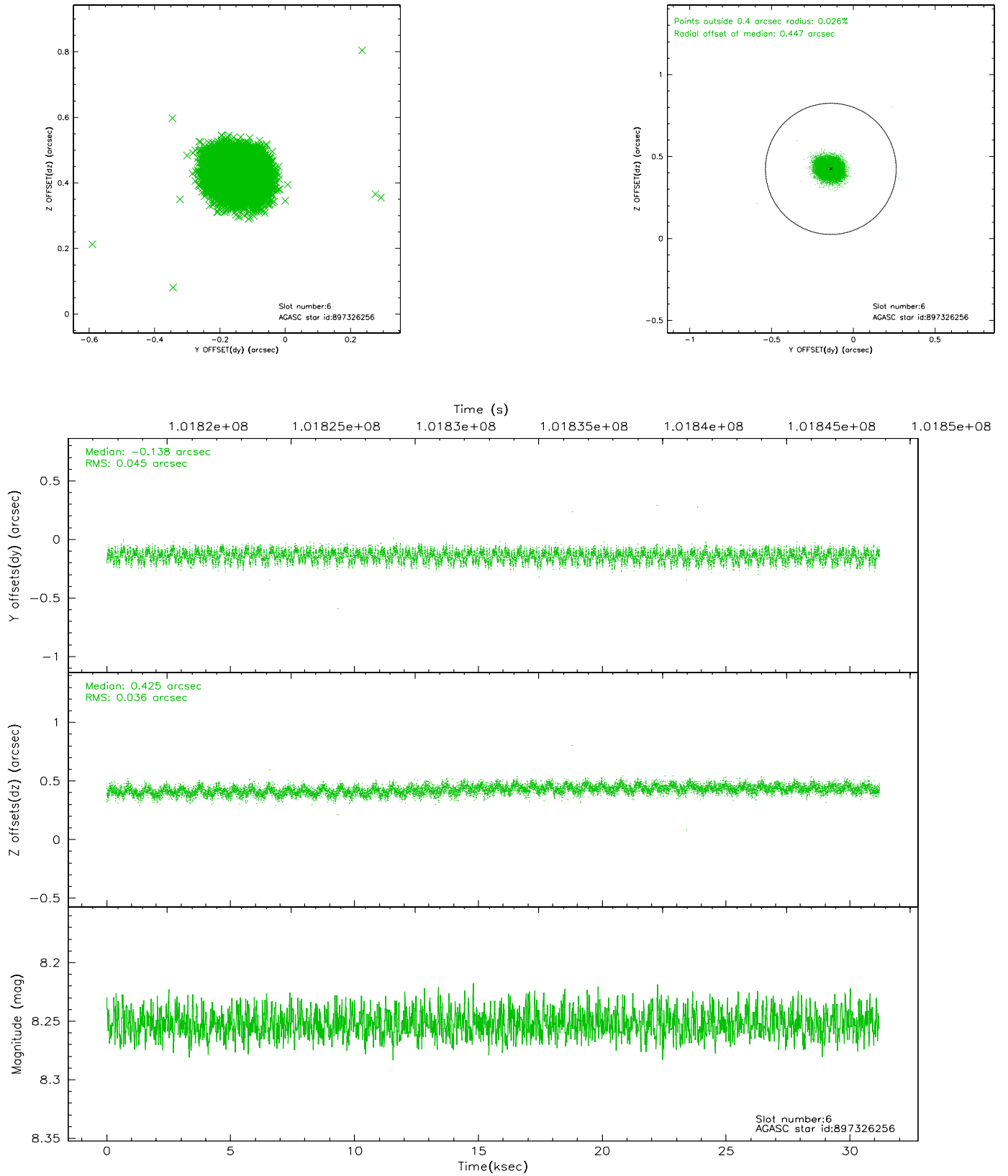
2.4.2 Slot 4



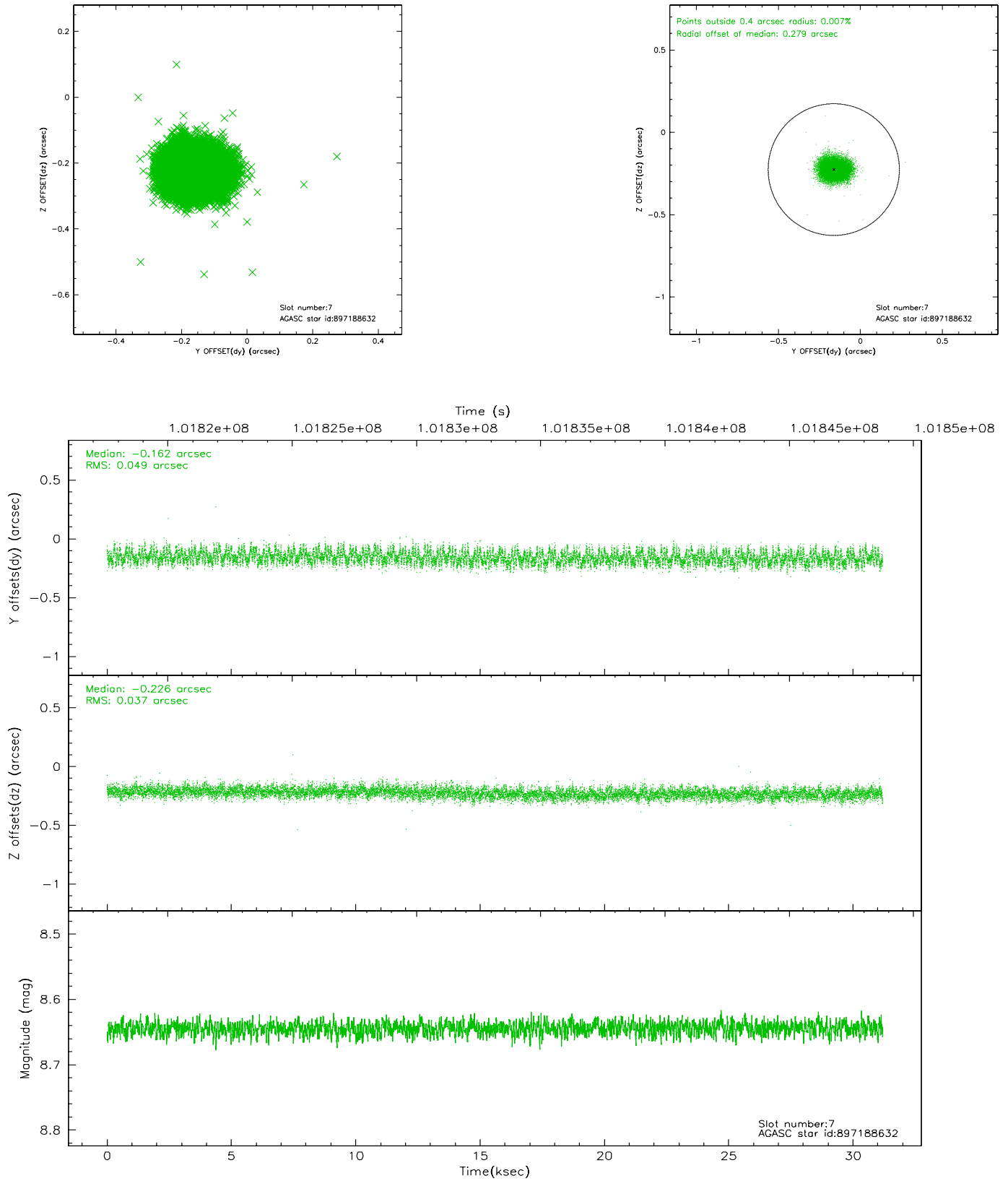
2.4.3 Slot 5



2.4.4 Slot 6

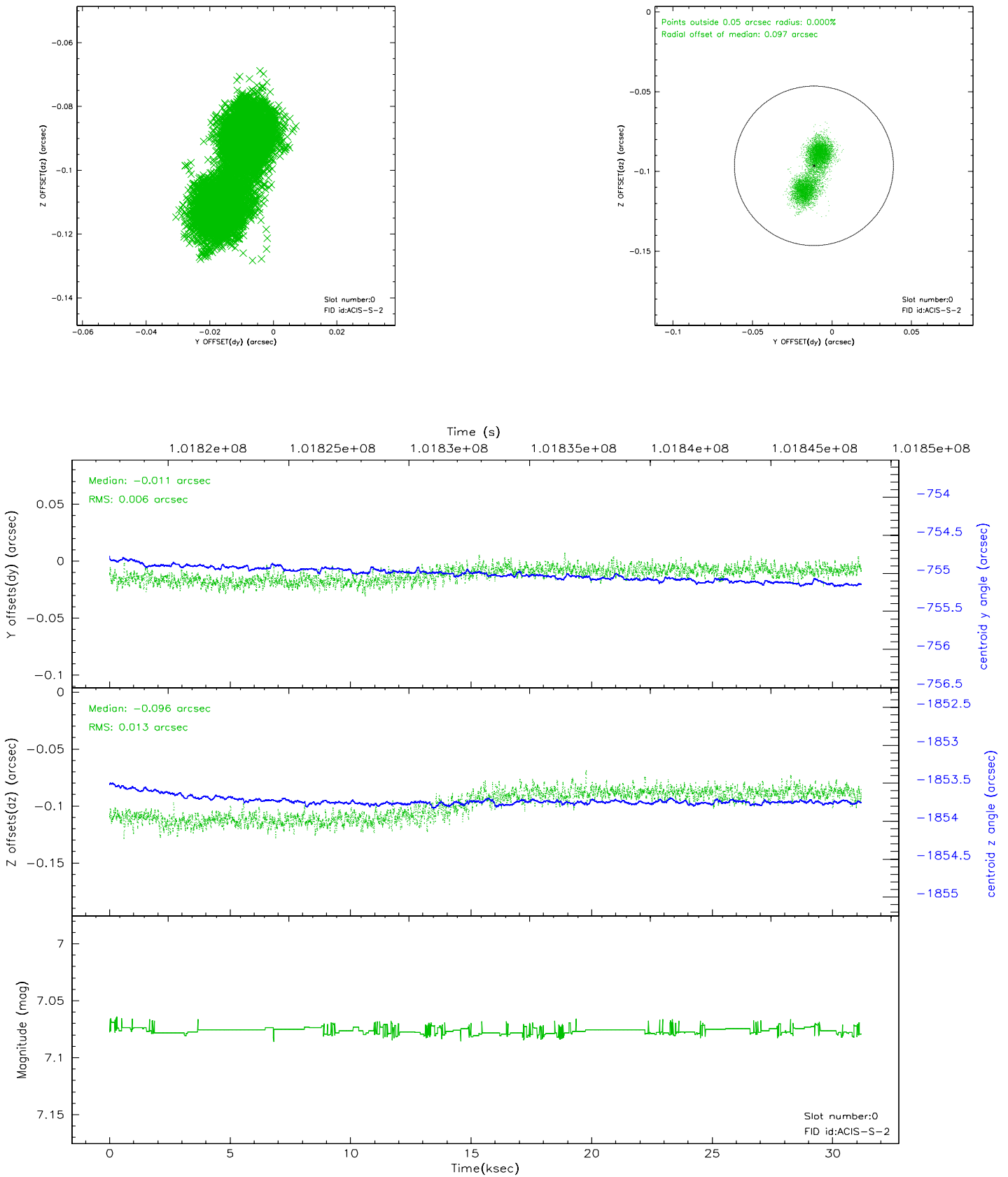


2.4.5 Slot 7

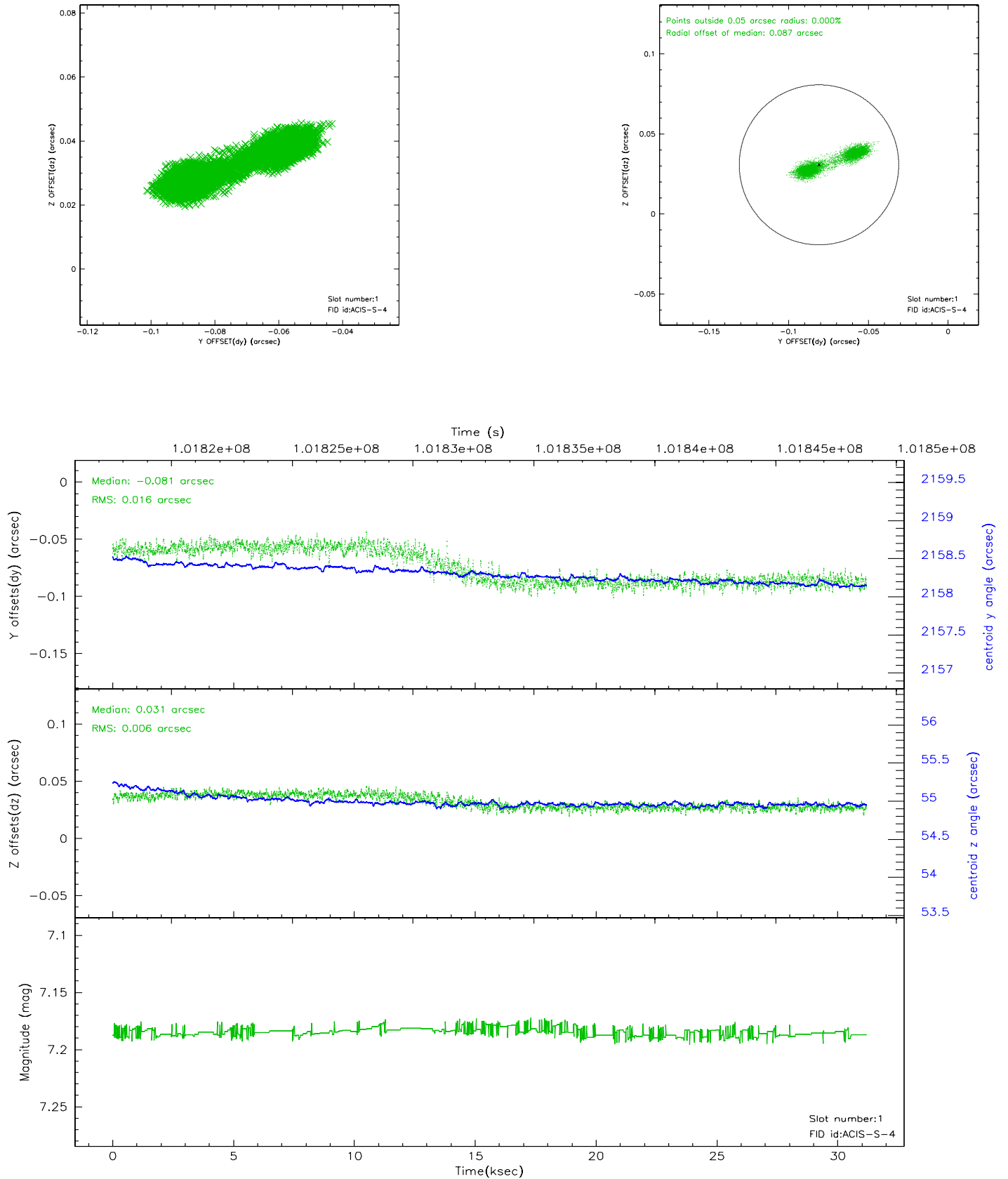


2.5 FID Slots

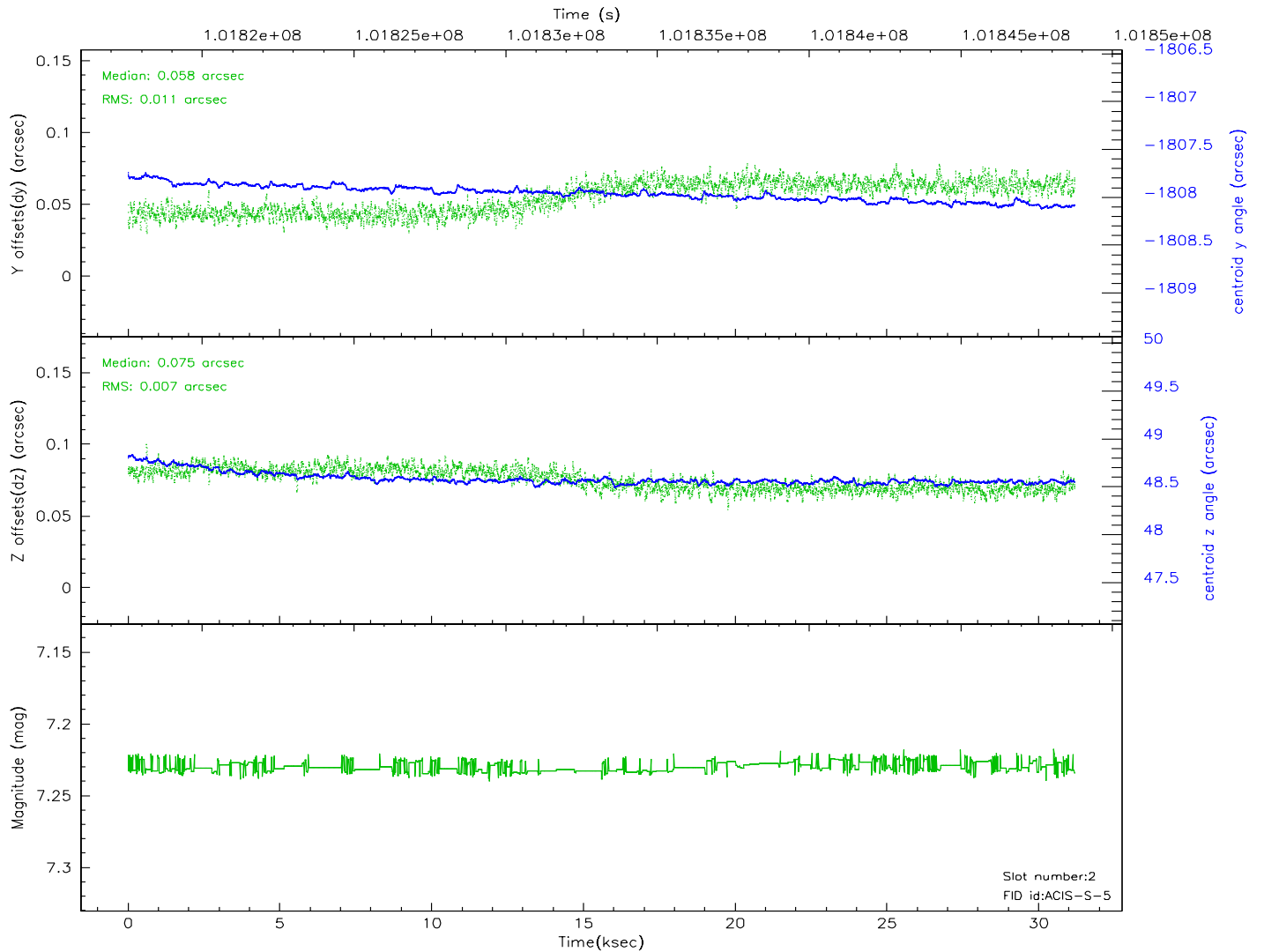
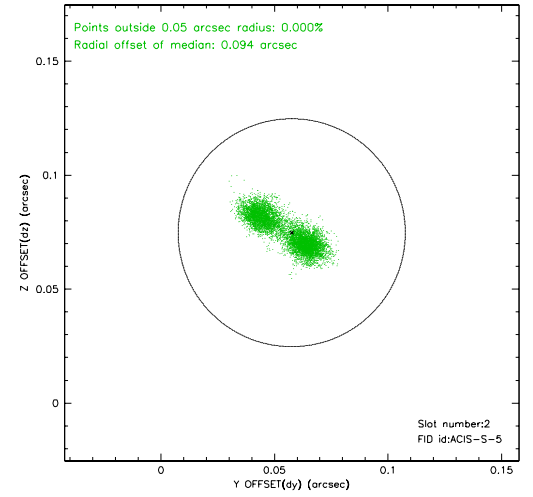
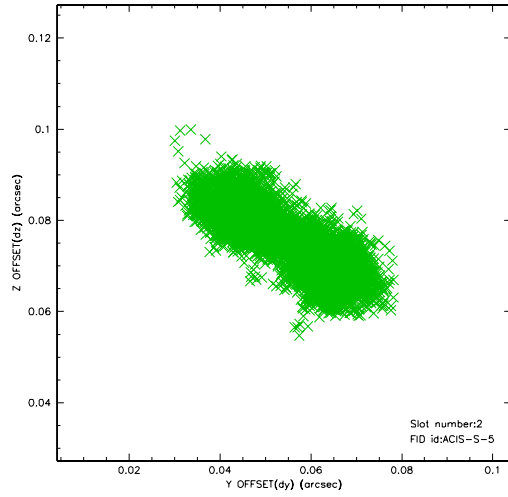
2.5.1 Slot 0



2.5.2 Slot 1

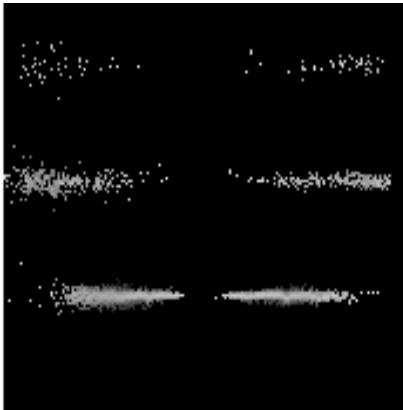


2.5.3 Slot 2

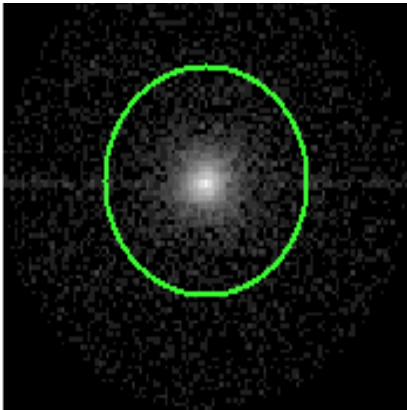


3 Gratings

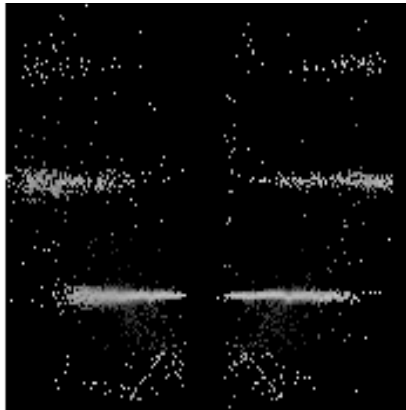
3.1 HEG Arm



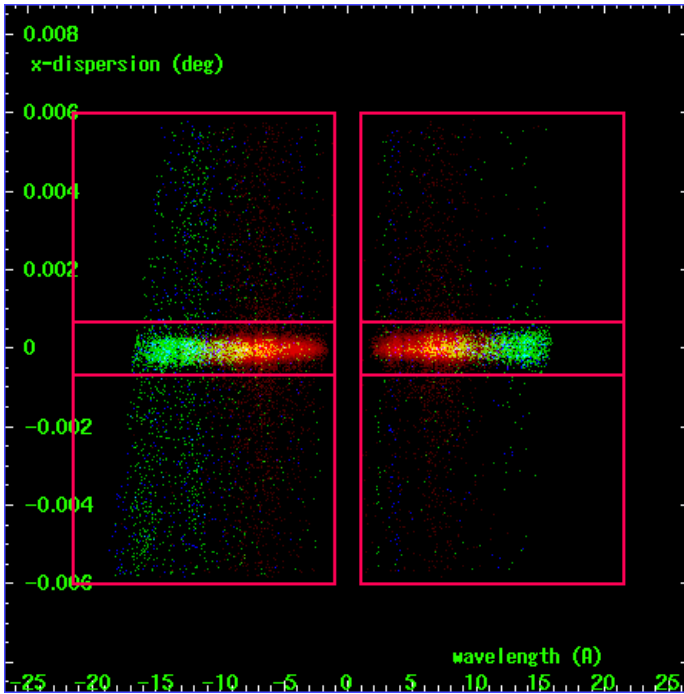
HEG Order Sort 123



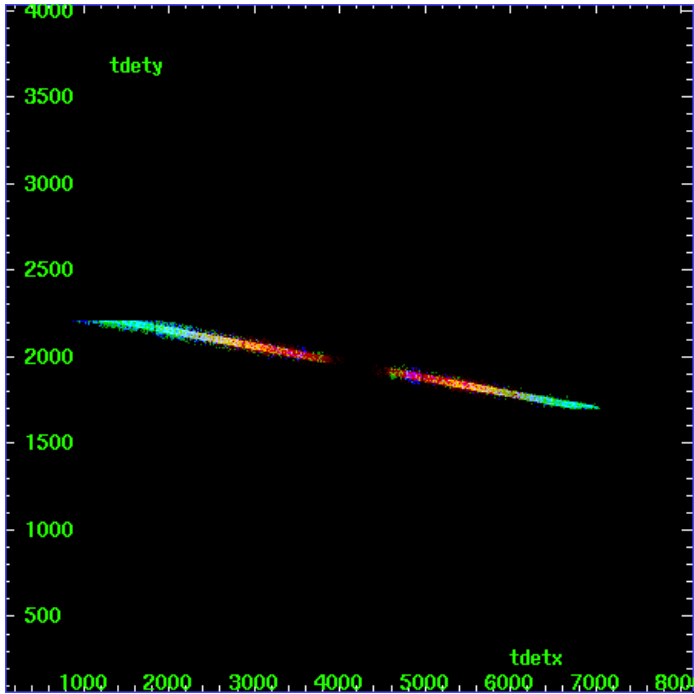
HEG Zero Order



HEG Order Sort ALL

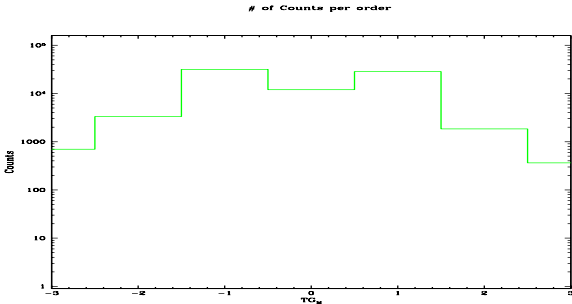


Spot Image HEG

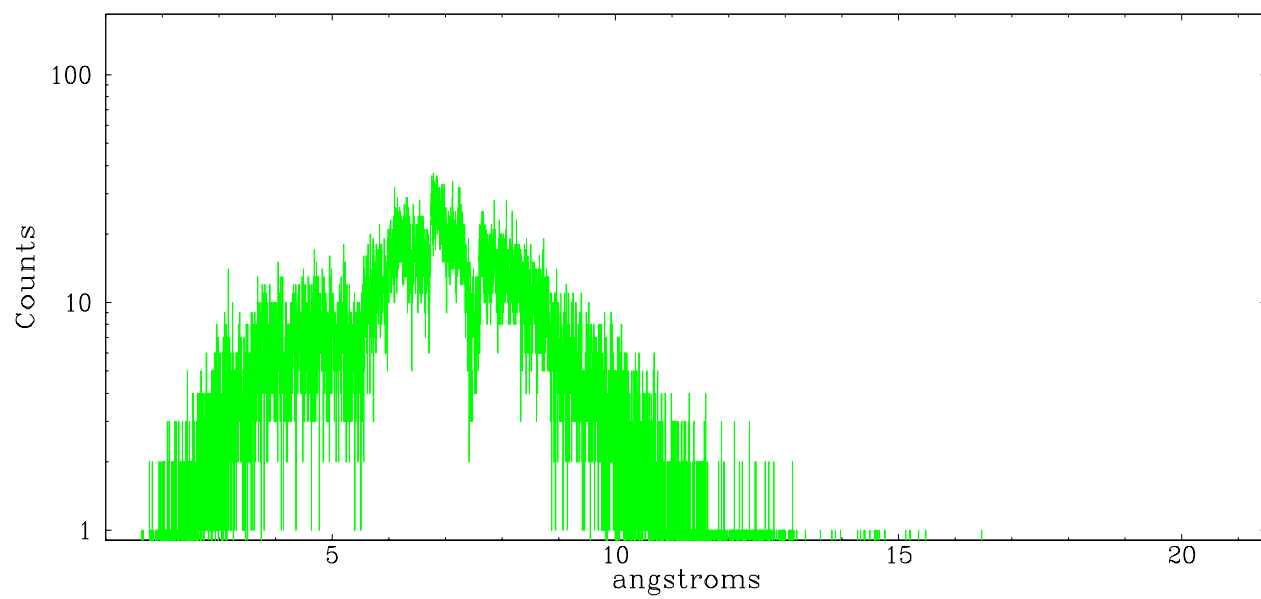


Full Detector HEG

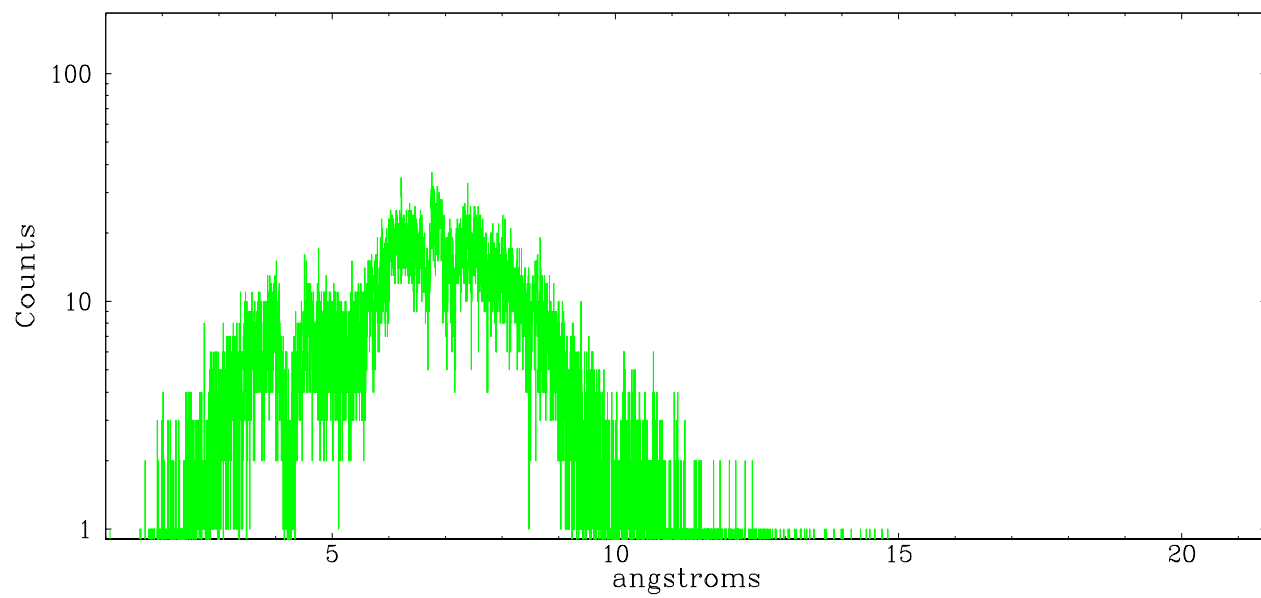
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	697	3313	31577	11988	28382	1844	364



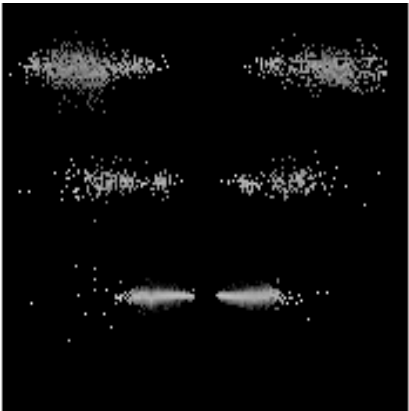
heg order -1



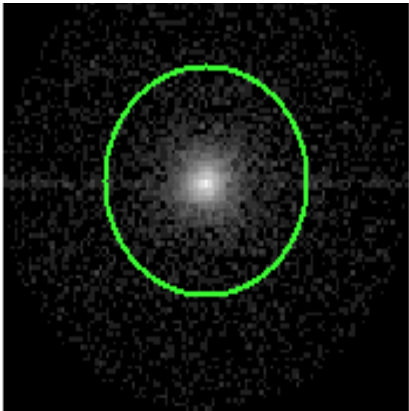
heg order +1



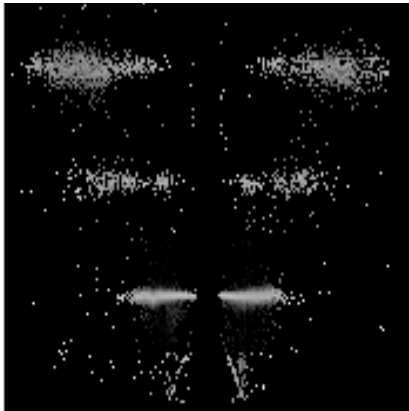
3.2 MEG Arm



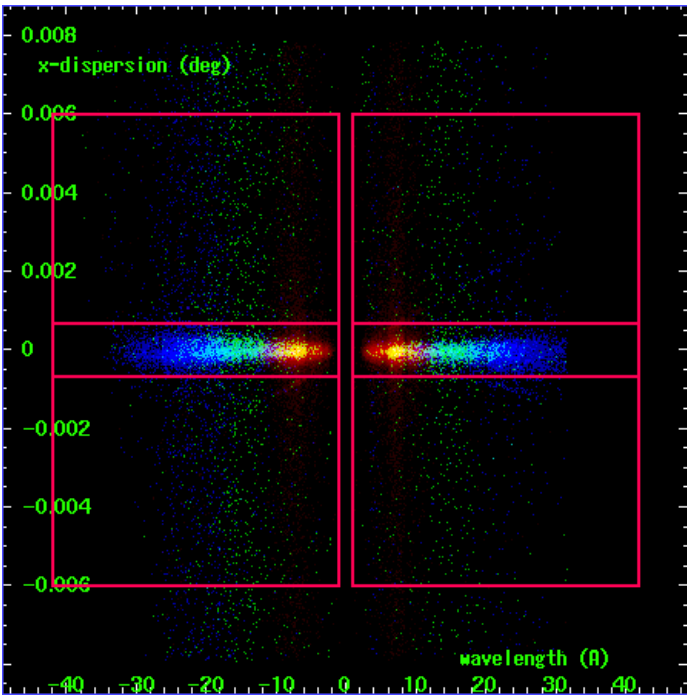
MEG Order Sort 123



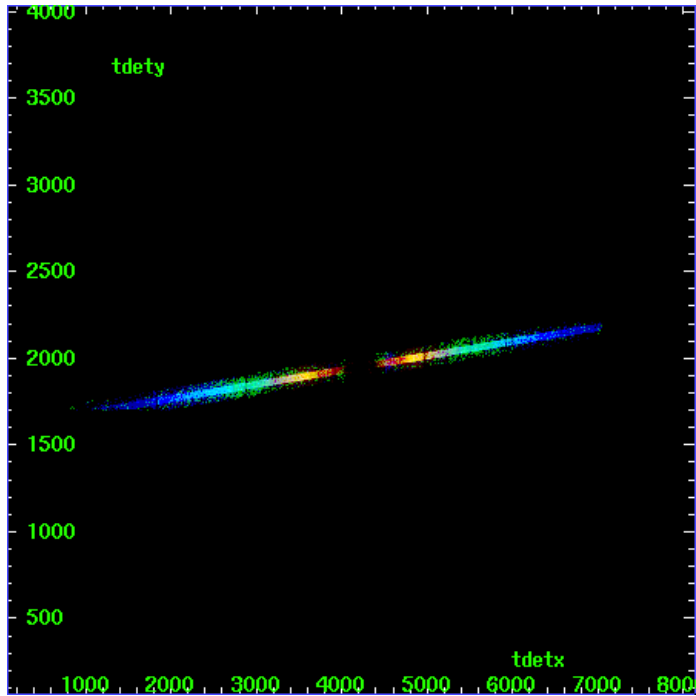
MEG Zero Order



MEG Order Sort ALL

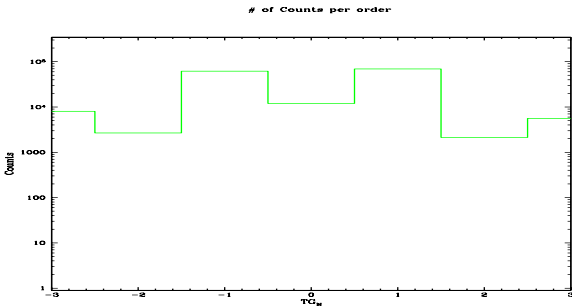


Spot Image MEG

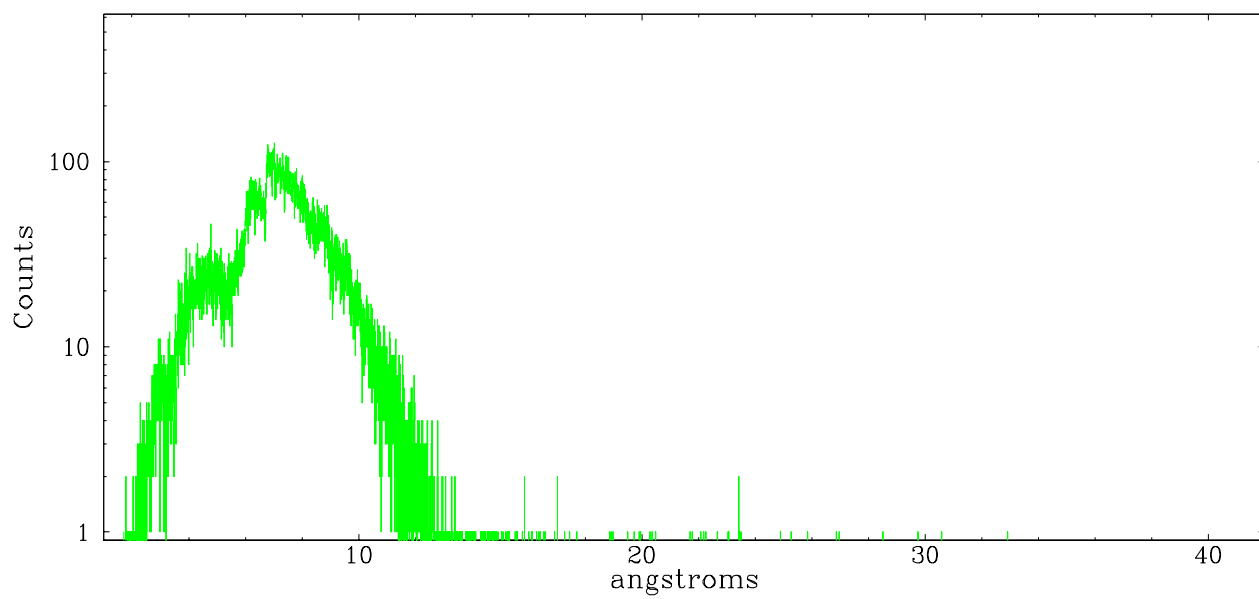


Full Detector MEG

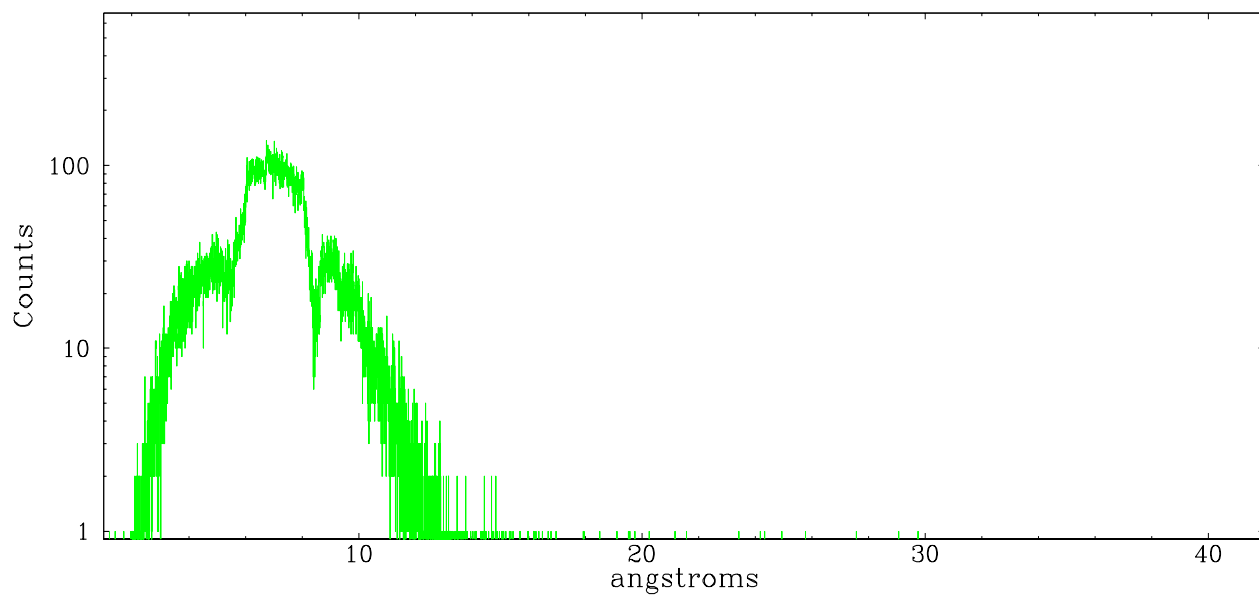
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	8034	2663	62006	11988	69138	2137	5612



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.11.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.28

A.2 Comments