

V&V Reference Report

L2 ASCDS Version : 7.6.8.1

Observation 3472 - L2 Version 001
Chandra X-Ray Center

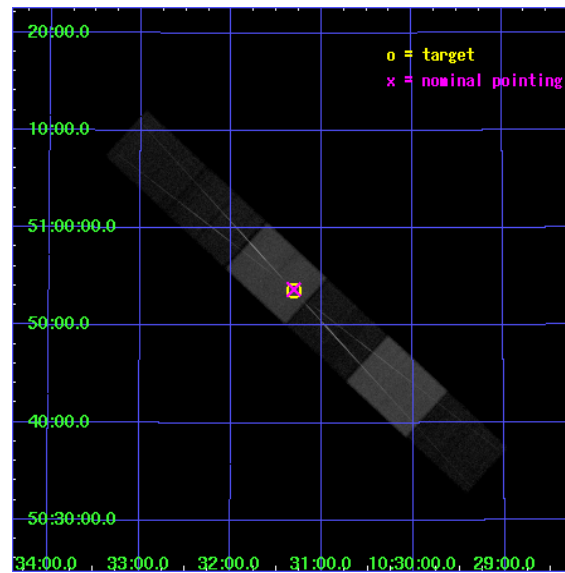
L2 Processing Date : Sep 9 2006

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1 Front

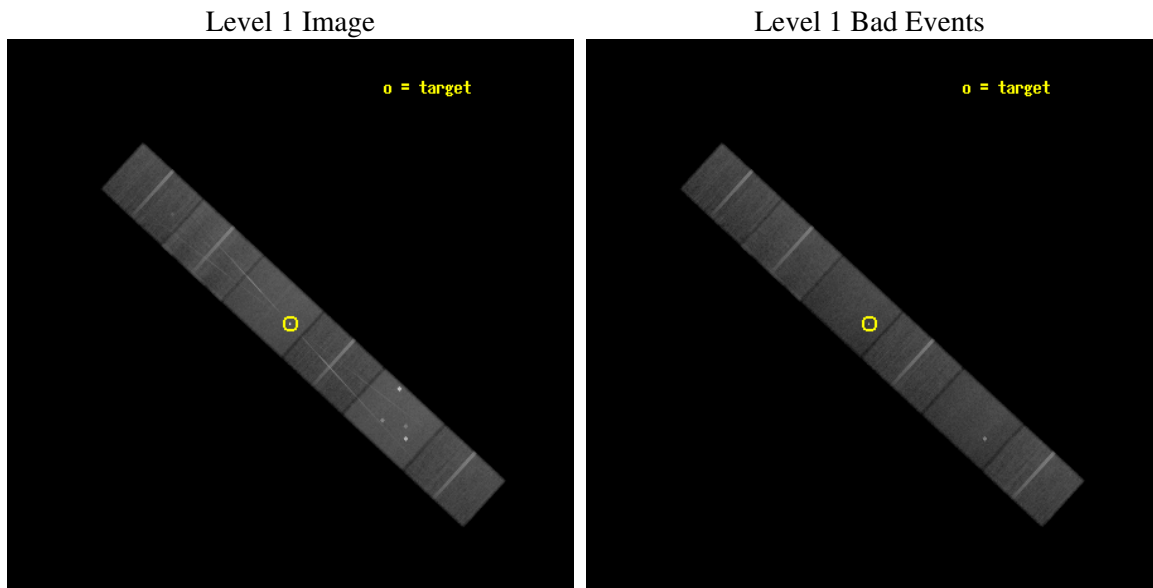
seq_num	700409
obs_id	3472
title	PROBING THE INTERGALACTIC MEDIUM AT LOW REDSHIFT
observer	Prof. Claude Canizares
object	1ES 1028+511
dtcycle	0
cycle	P
ra_targ	157.826667
dec_targ	50.893333
ra_nom	157.82654254549
dec_nom	50.89554111559
roll_nom	222.60672906904
revision	2
ontime	69644.958999842
livetime	68520.132504646
ontime4	69644.958999828
ontime5	69644.958999828
ontime6	69644.958999828
ontime7	69644.958999842
ontime8	69647.5
ontime9	69642.417959839
l2events	553291



2 OBI

2.1 OBI

2.1.1 Images

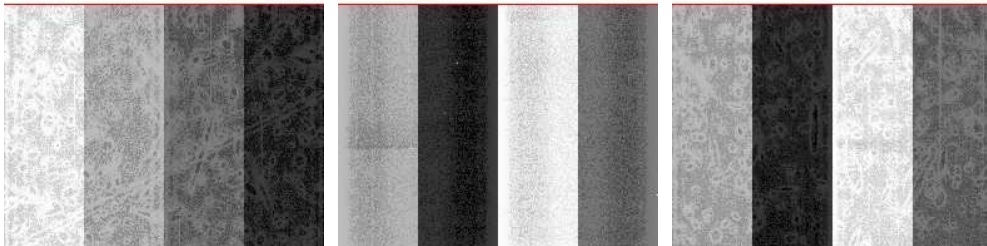


2.1.2 Bias

Chip 4

Chip 5

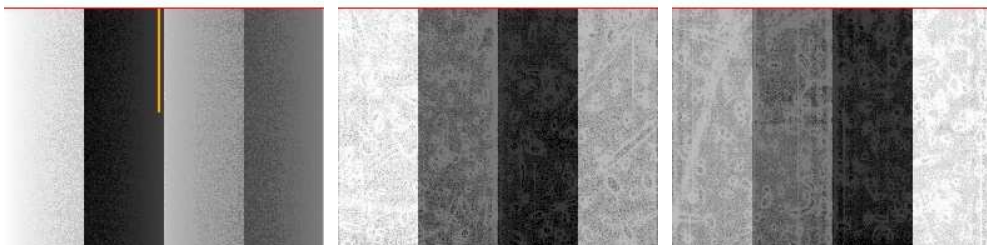
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.8.1
caldsver	3.2.3
date	2006-09-09T12:04:15
revision	2

sched_exp_time	69500.000000
ontime	70147.249204442
ontime4	70147.249204427
ontime5	70147.249204427
ontime6	70147.249204427
ontime7	70147.249204442
ontime8	70149.790204599
ontime9	70144.708164439
l1events	2484507

2.1.4 Events

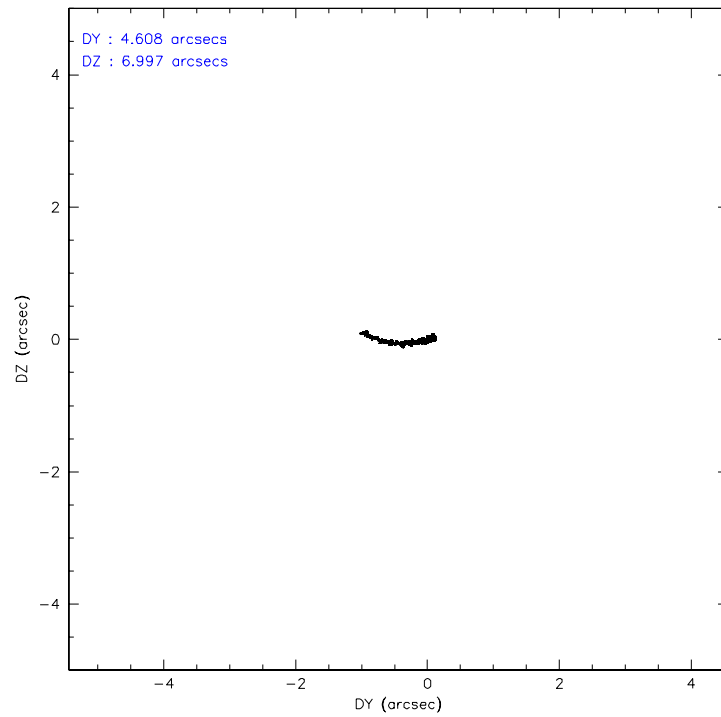
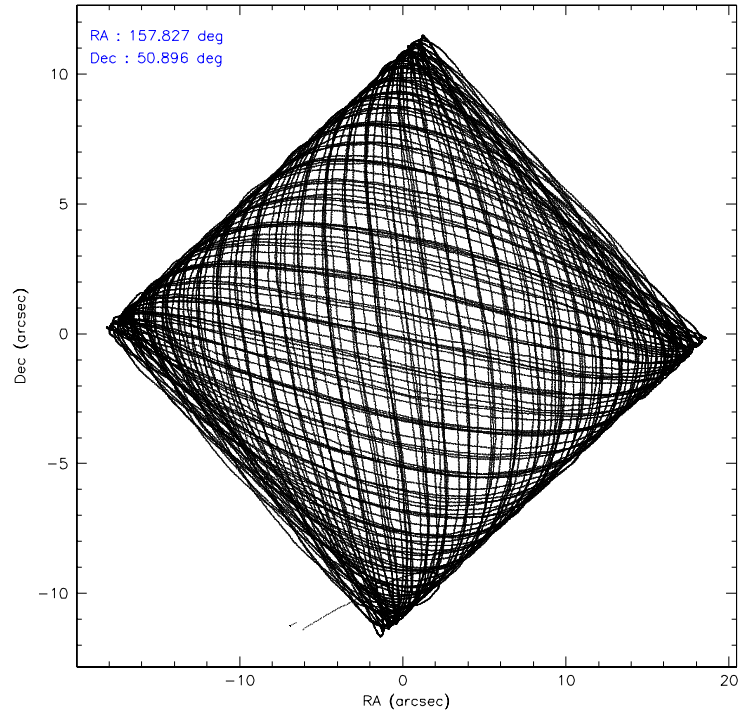
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	374118	514720	355674	462274	436370	341351
rejected events	332197	271018	303309	267402	341177	299327
rejected %	88%	52%	85%	57%	78%	87%

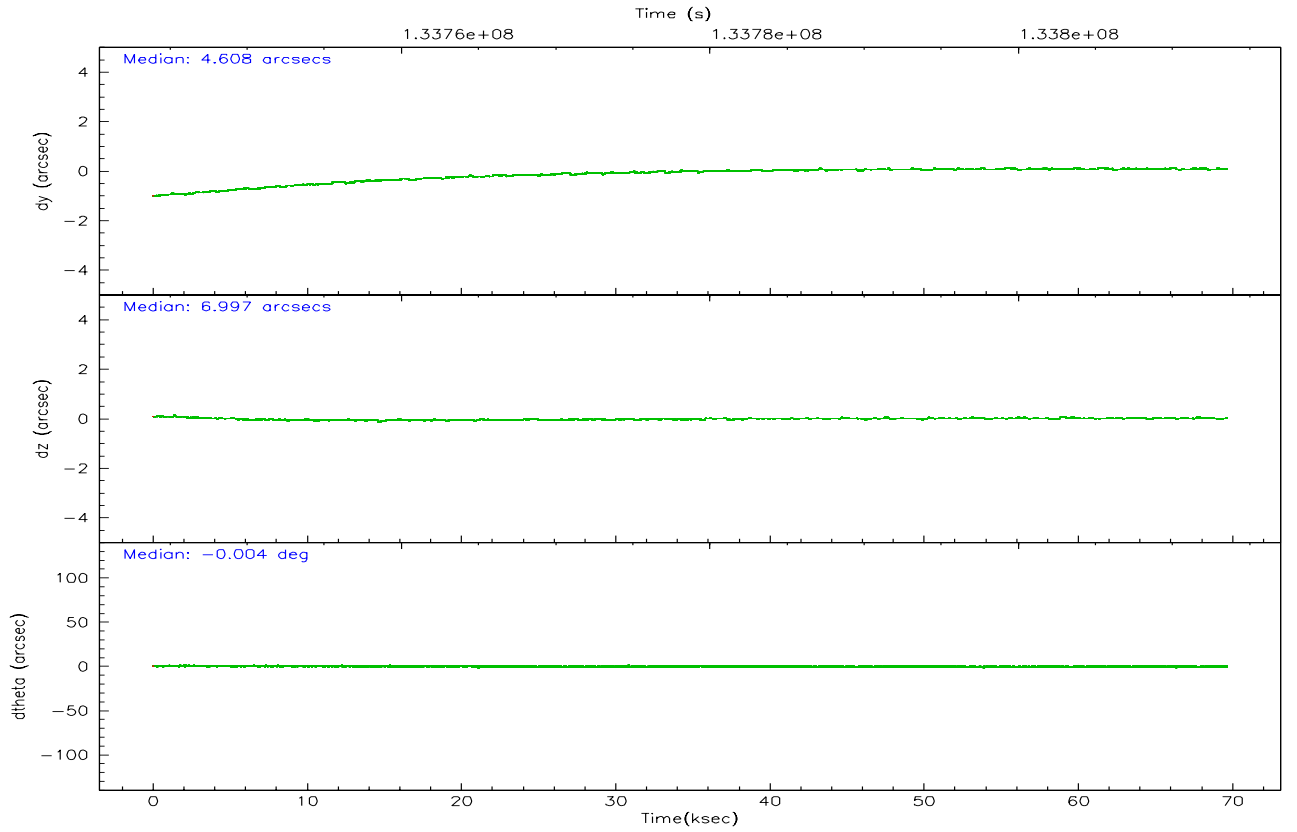
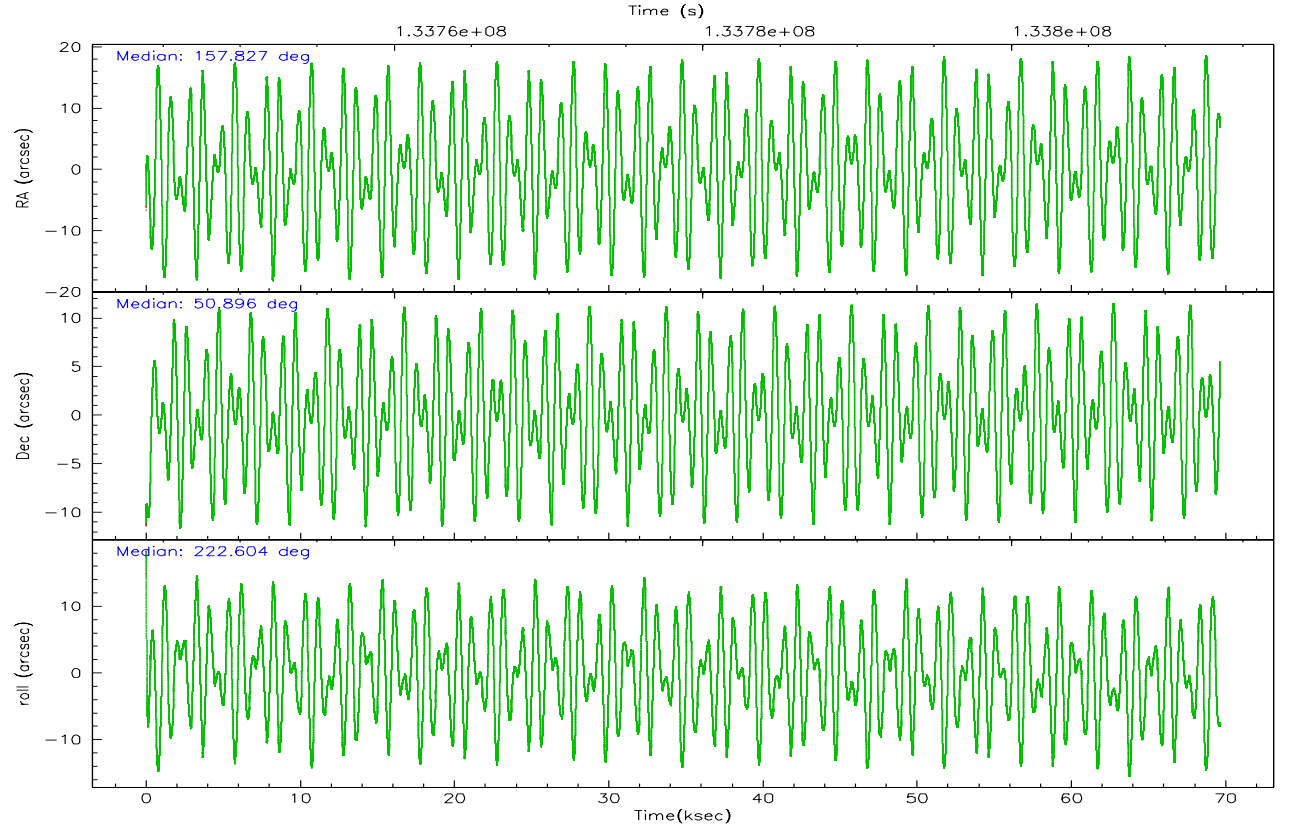
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	17054	47456	25902	16205	33250	17435
	4%	9%	7%	3%	7%	5%
grade 1 events	152	3505	161	535	276	136
	0%	0%	0%	0%	0%	0%
grade 2 events	10042	65954	9364	47705	19767	8391
	2%	12%	2%	10%	4%	2%
grade 3 events	4157	6210	4714	13046	10030	4386
	1%	1%	1%	2%	2%	1%
grade 4 events	3895	5937	4544	12703	9360	4226
	1%	1%	1%	2%	2%	1%
grade 5 events	12237	24437	14501	32717	18293	14831
	3%	4%	4%	7%	4%	4%
grade 6 events	7068	119906	8137	106447	23457	7910
	1%	23%	2%	23%	5%	2%
grade 7 events	319513	241315	288351	232916	321937	284036
	85%	46%	81%	50%	73%	83%

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	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	CUSTOM	CUSTOM
Pointing RA	157.838954	157.8265425454896	Subarray start row	1	1
Pointing Dec	50.921656	50.89554111559046	Subarray row count	774	774
Pointing Roll	222.440463	222.6067290690434	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	2.5
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.1254020033014			
SIM translation stage offset (mm)	-3	-3.007120579706367			
Observation start time	133744046.184000	133742843.26505			
Observation start date	2002-03-28T23:06:22	2002-03-28T22:47:23			
Observation end time	133813546.184000	133814023.88044			
Observation end date	2002-03-29T18:24:42	2002-03-29T18:33:43			
Read mode	TIMED	TIMED			

2.3 Aspect



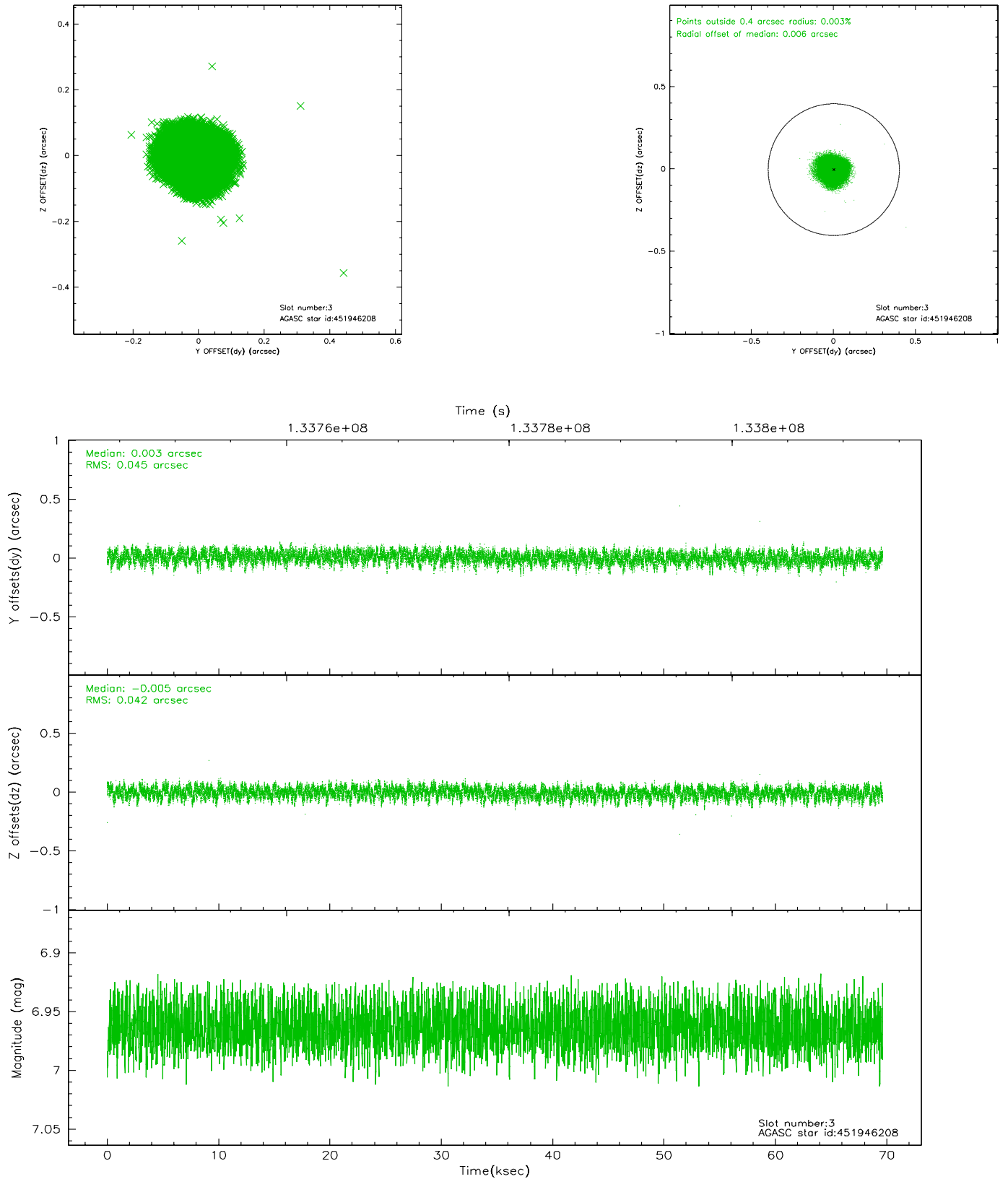


Slot Statistics

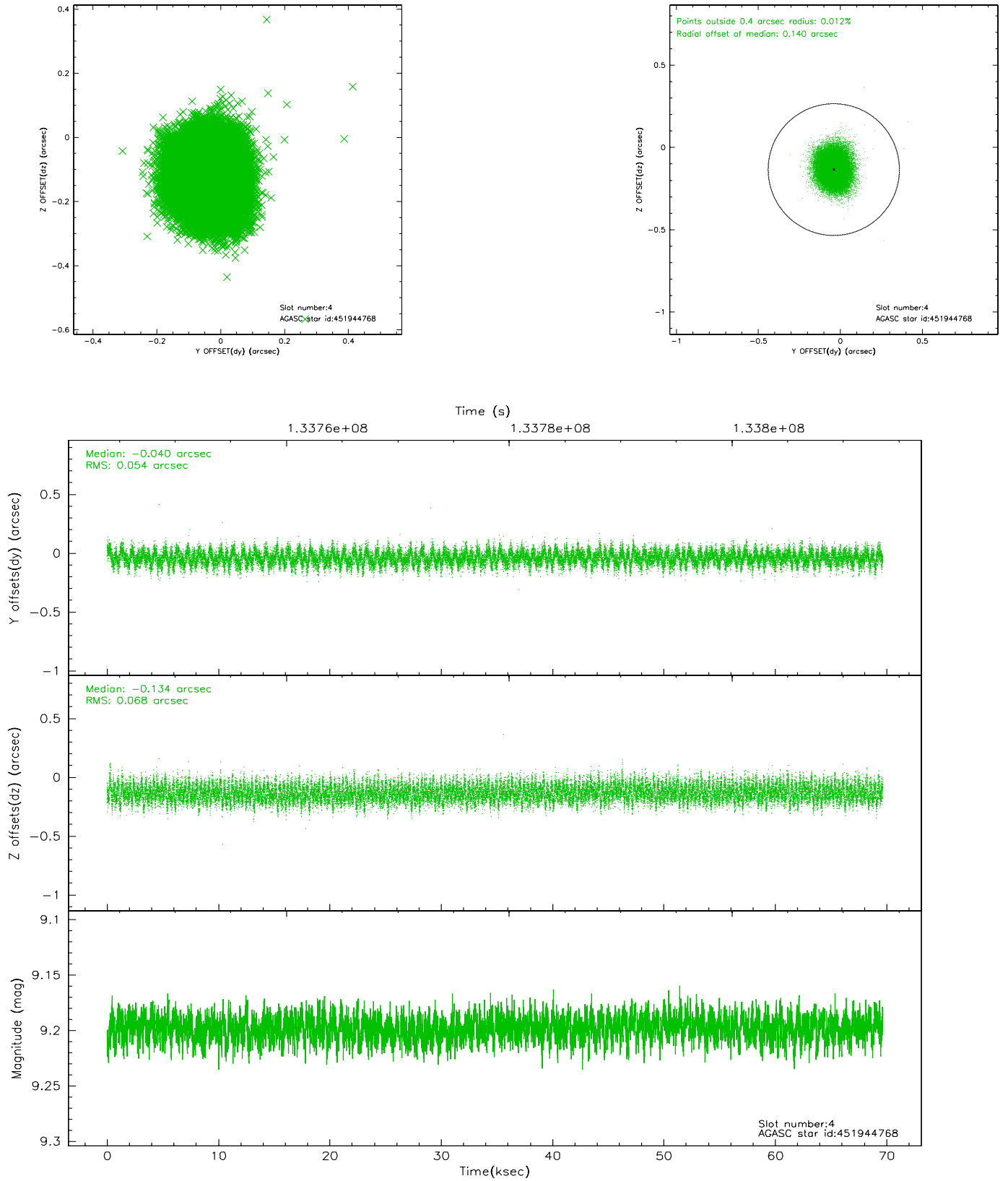
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.35	16986	-0.071	0.002	0.014	0.022	0.000000	0.000000	56.19	-1919.30
1	FID	ACIS-S-4	7.20	16983	0.026	0.037	0.015	0.022	0.000000	0.000000	2156.45	118.31
2	FID	ACIS-S-5	7.23	16984	0.015	-0.030	0.010	0.023	0.000000	0.000000	-1809.83	111.87
3	GUIDE	451946208	6.96	33970	0.003	-0.005	0.067	0.101	157.563600	50.569125	1320.36	510.93
4	GUIDE	451944768	9.20	33961	-0.040	-0.134	0.093	0.148	157.673498	51.401166	-890.72	-1525.16
5	GUIDE	451944336	9.53	33957	-0.035	0.078	0.085	0.137	158.260486	51.372141	-1795.26	-559.59
6	GUIDE	451945120	10.13	33941	0.017	0.063	0.114	0.184	157.745259	51.099918	-276.74	-616.58
7	GUIDE	451029568	9.42	33953	0.052	-0.002	0.095	0.156	156.626708	51.050272	1697.22	-2209.55

2.4 Star Slots

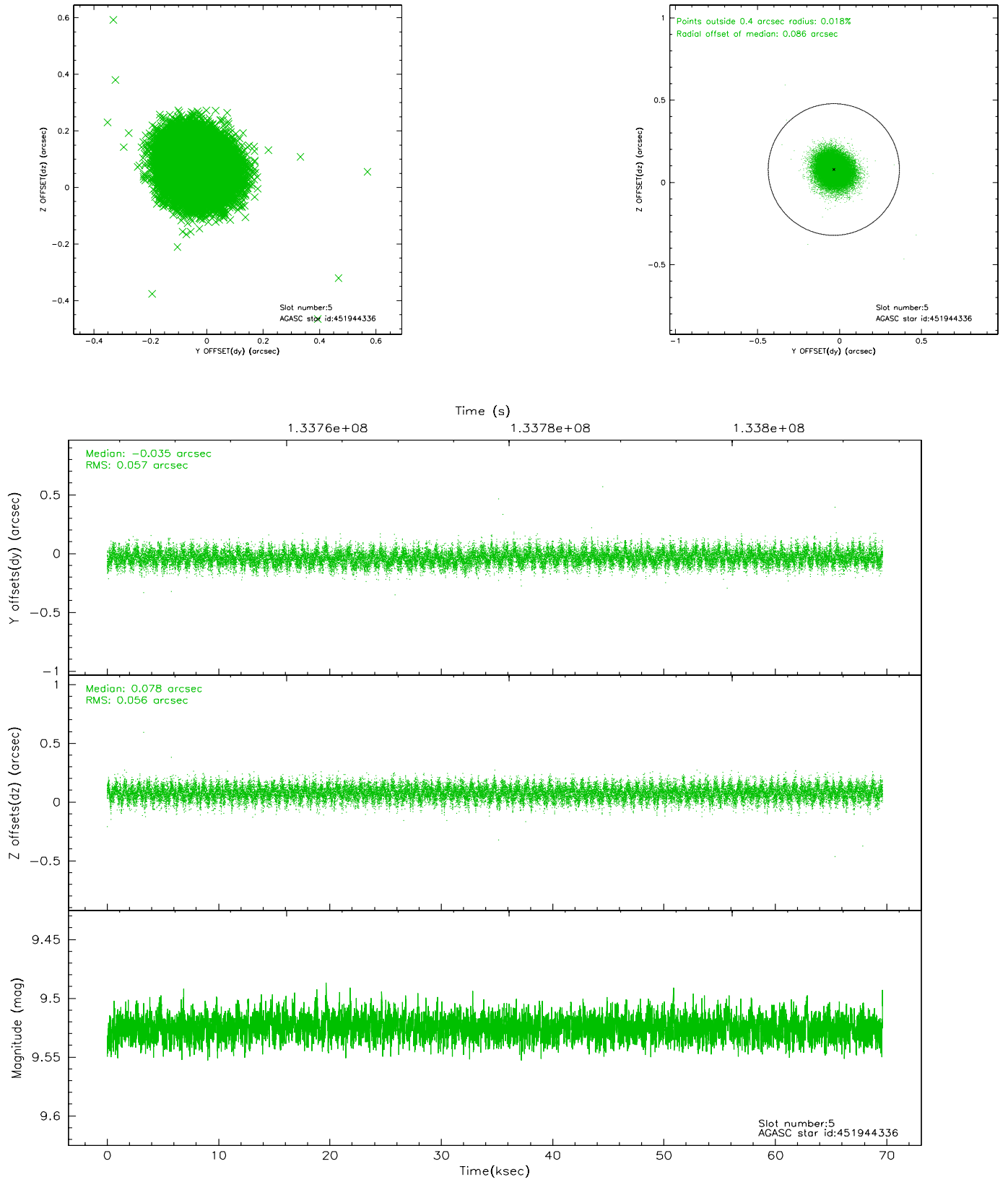
2.4.1 Slot 3



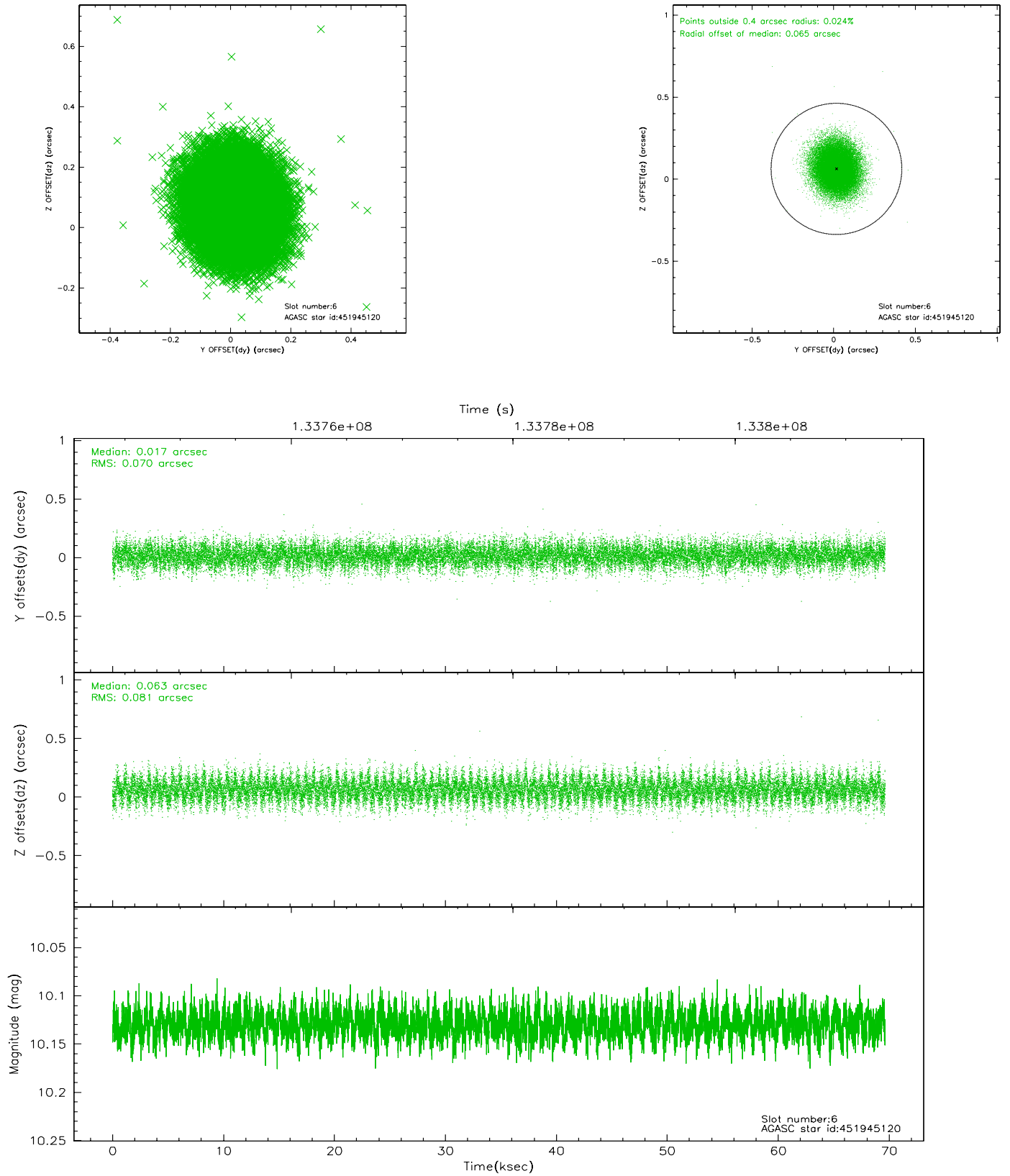
2.4.2 Slot 4



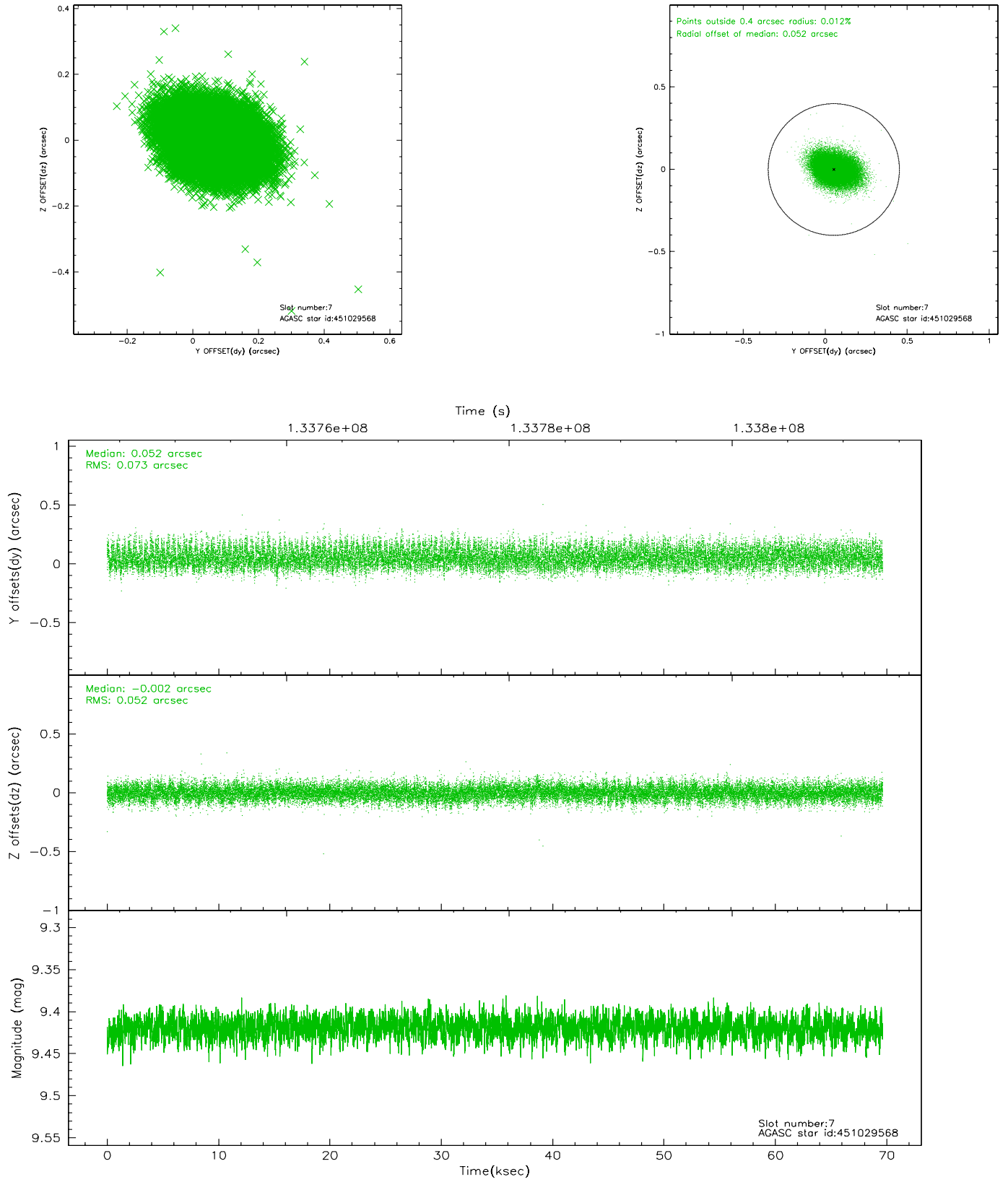
2.4.3 Slot 5



2.4.4 Slot 6

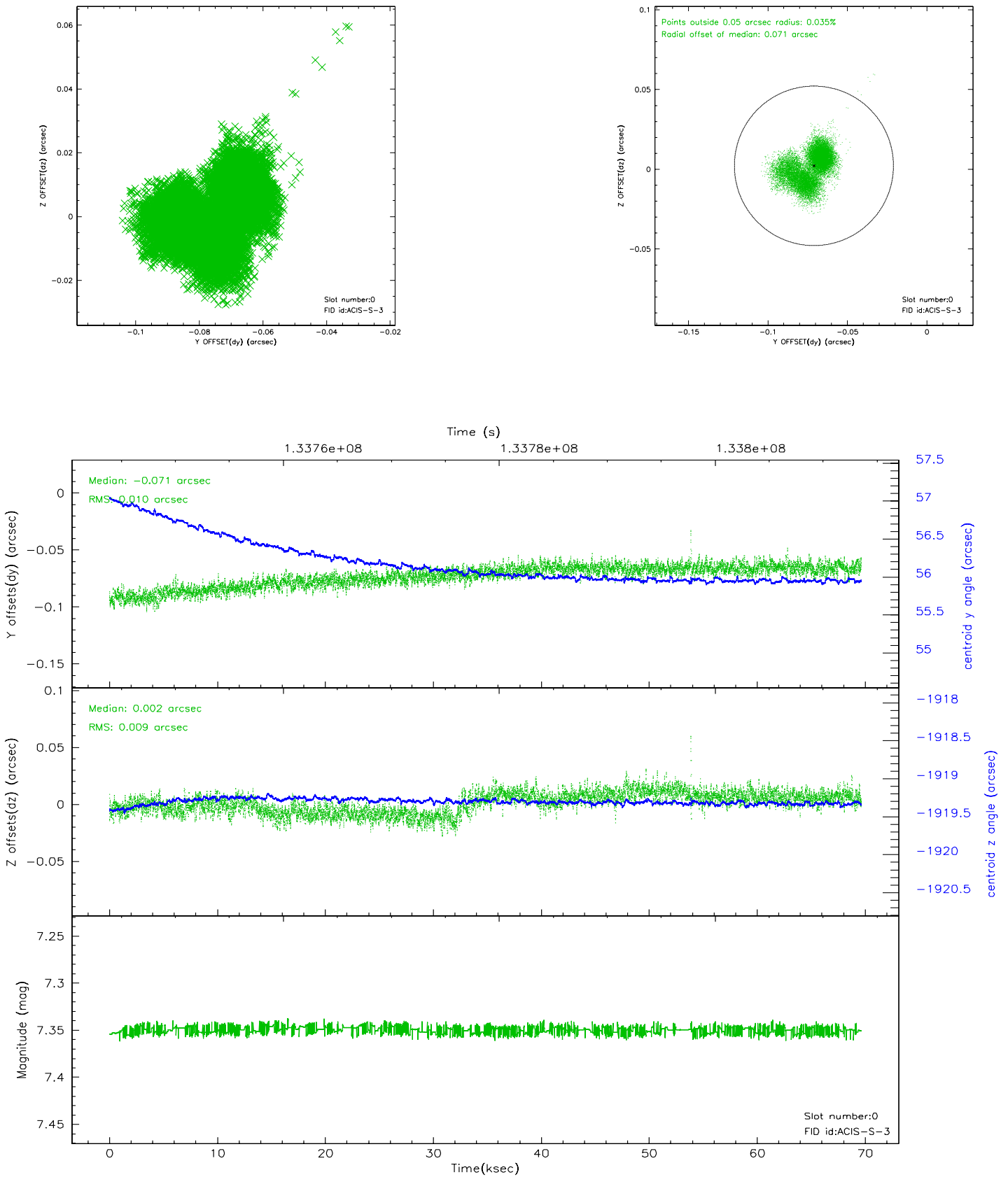


2.4.5 Slot 7

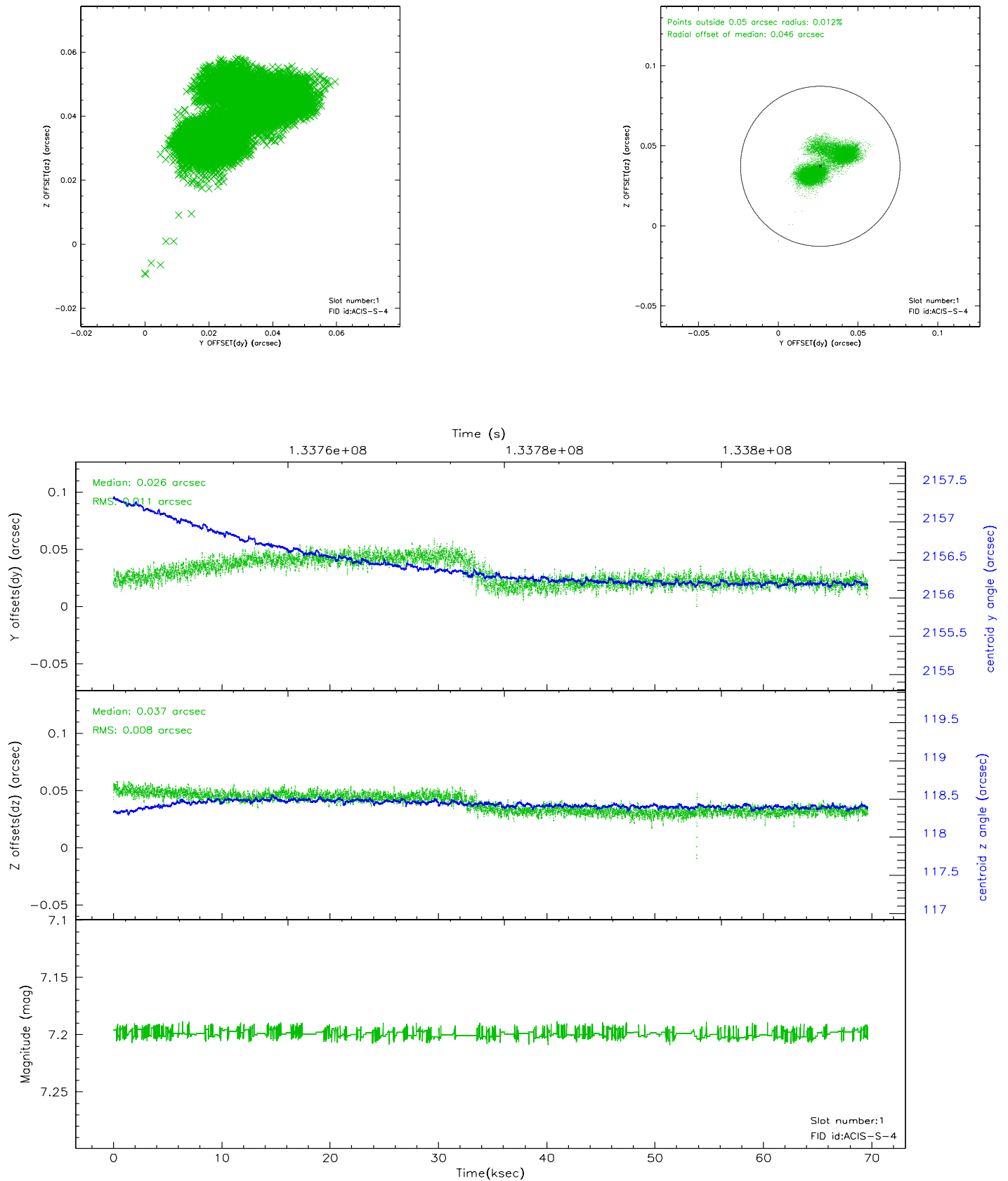


2.5 FID Slots

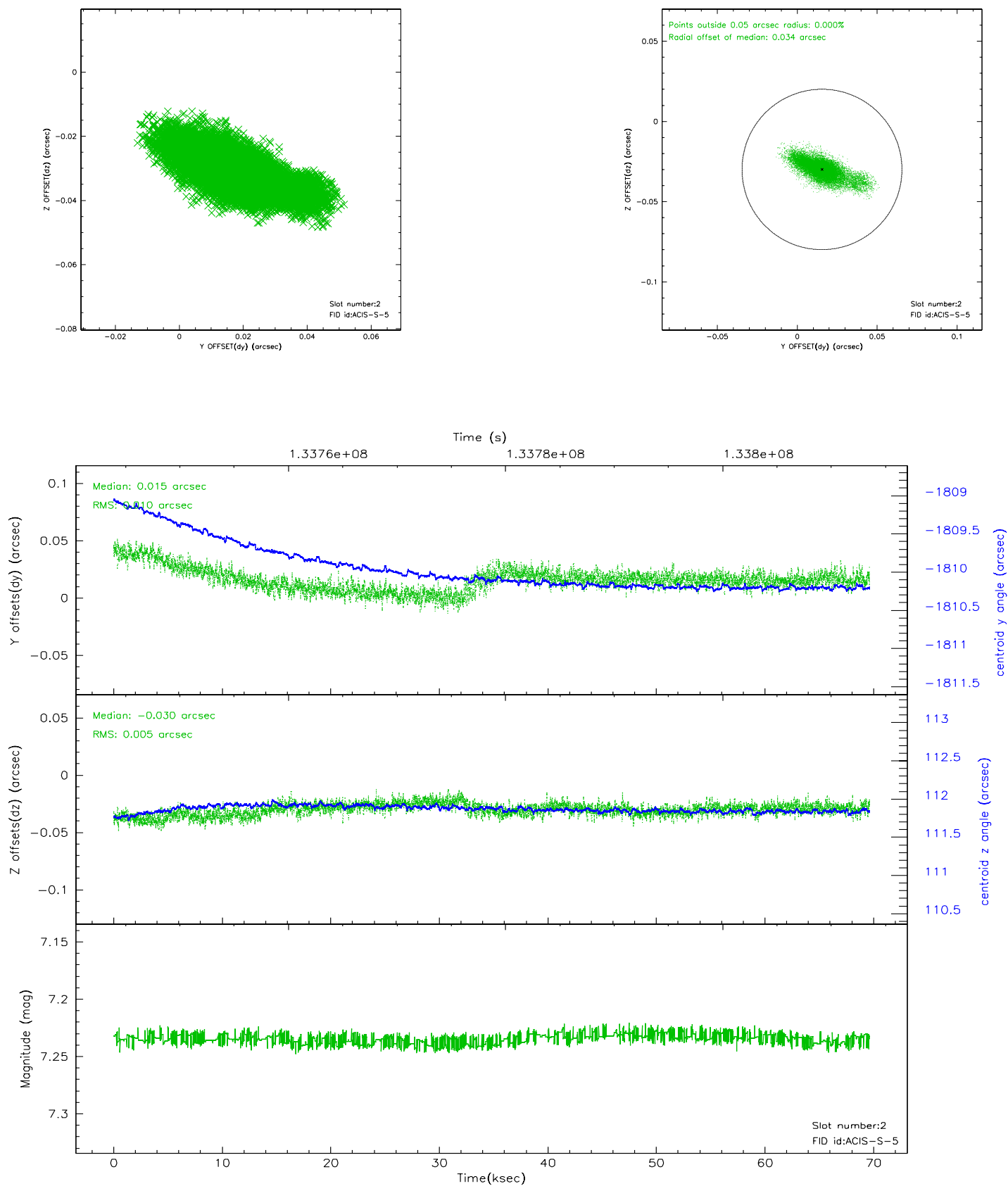
2.5.1 Slot 0



2.5.2 Slot 1

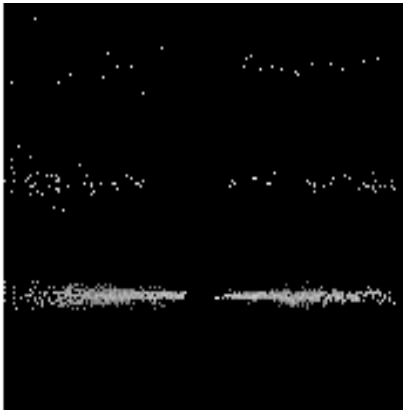


2.5.3 Slot 2

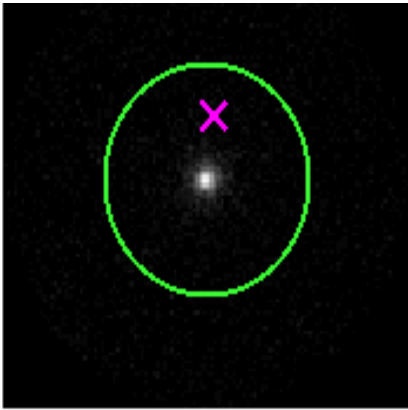


3 Gratings

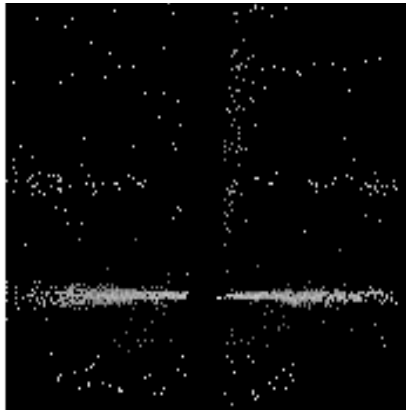
3.1 HEG Arm



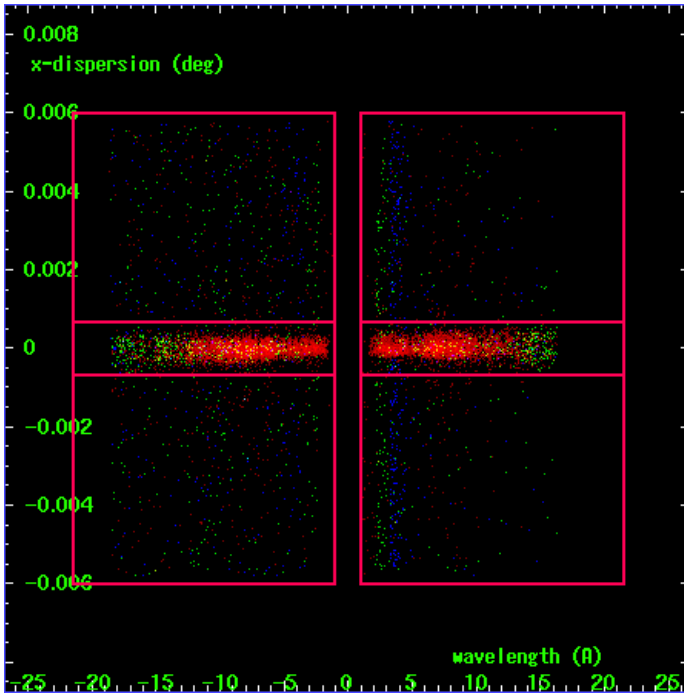
HEG Order Sort 123



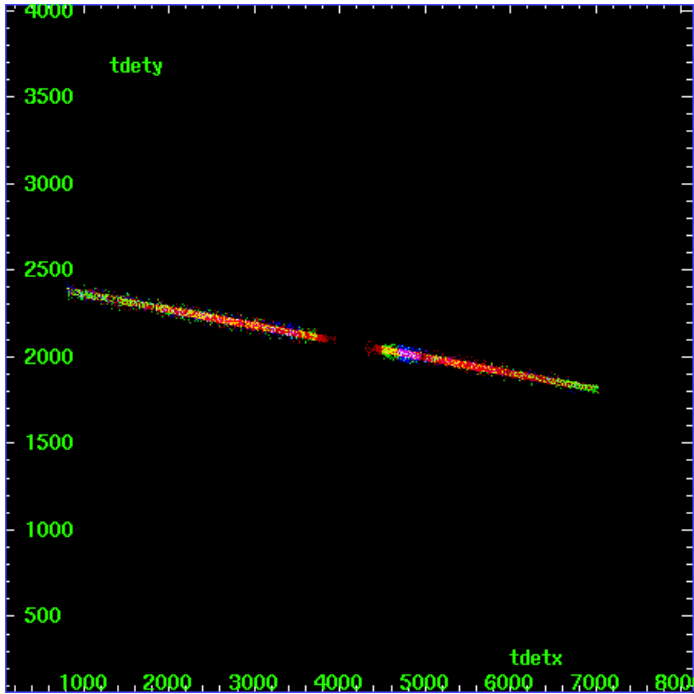
HEG Zero Order



HEG Order Sort ALL

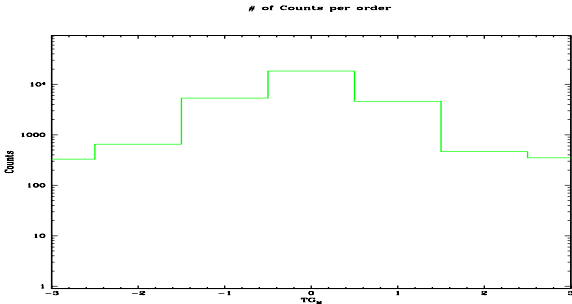


Spot Image HEG

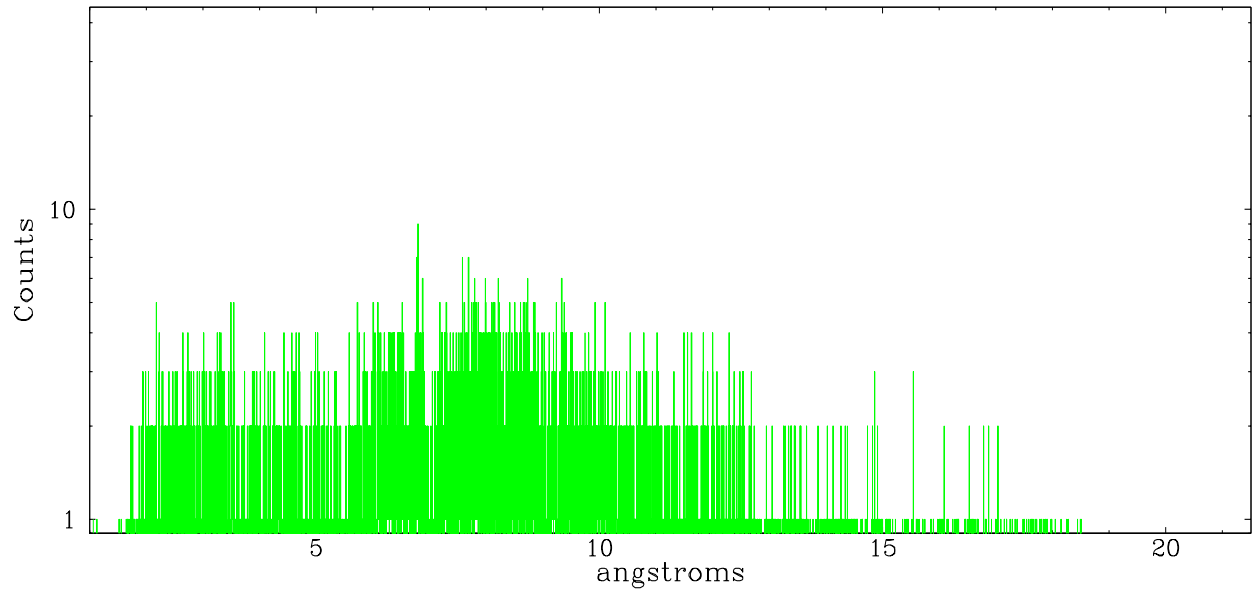


Full Detector HEG

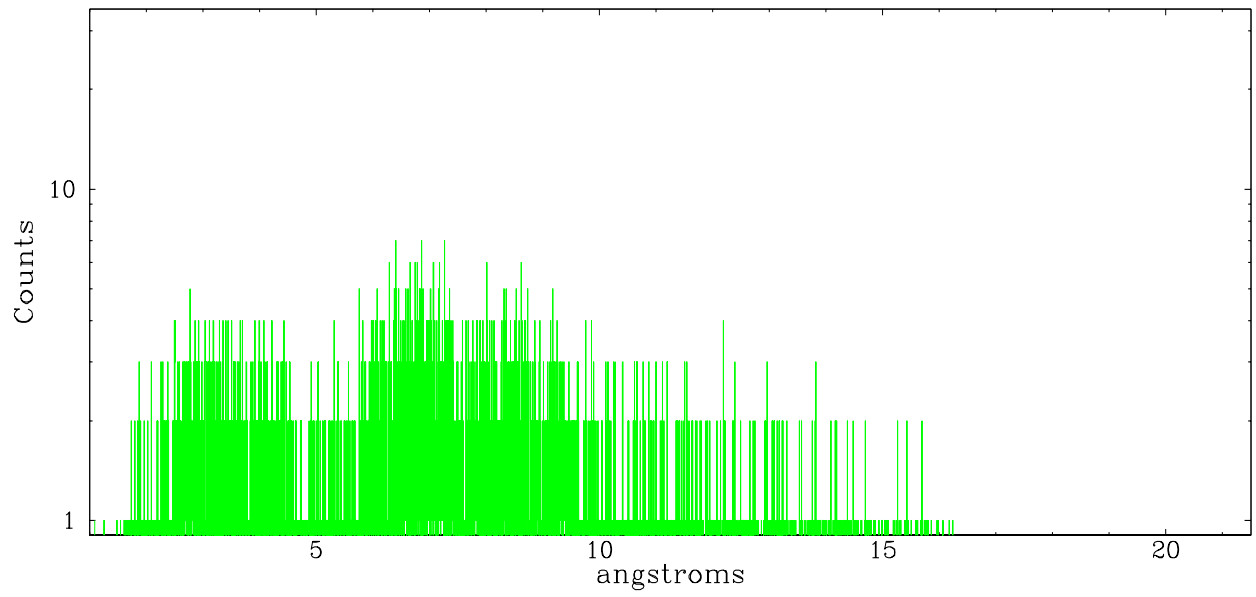
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	330	652	5343	18406	4602	465	350



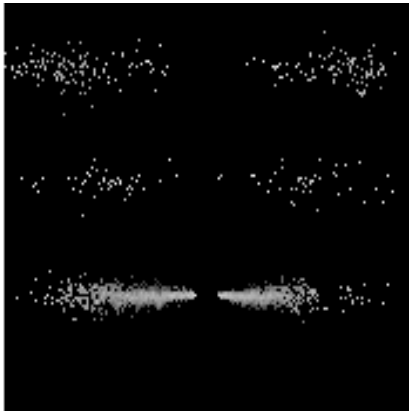
heg order -1



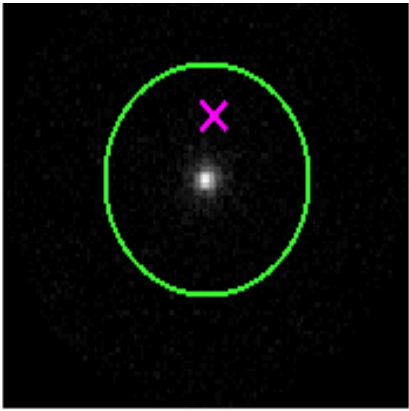
heg order +1



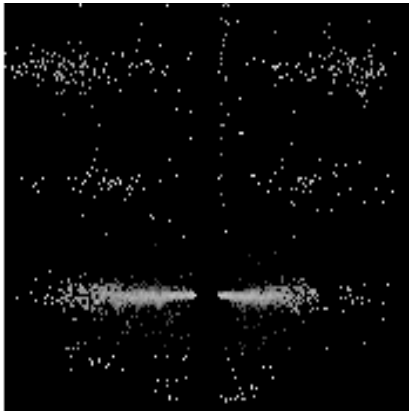
3.2 MEG Arm



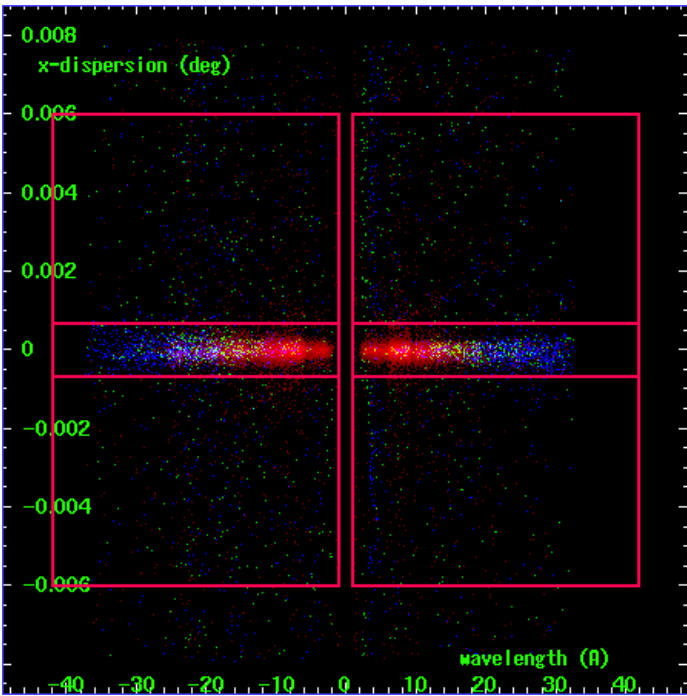
MEG Order Sort 123



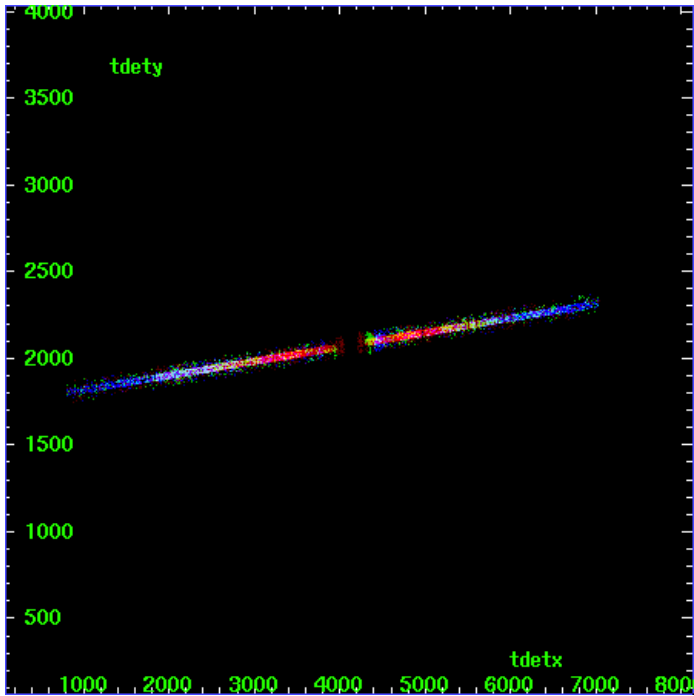
MEG Zero Order



MEG Order Sort ALL

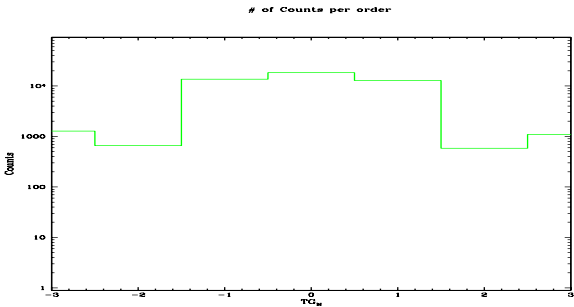


Spot Image MEG

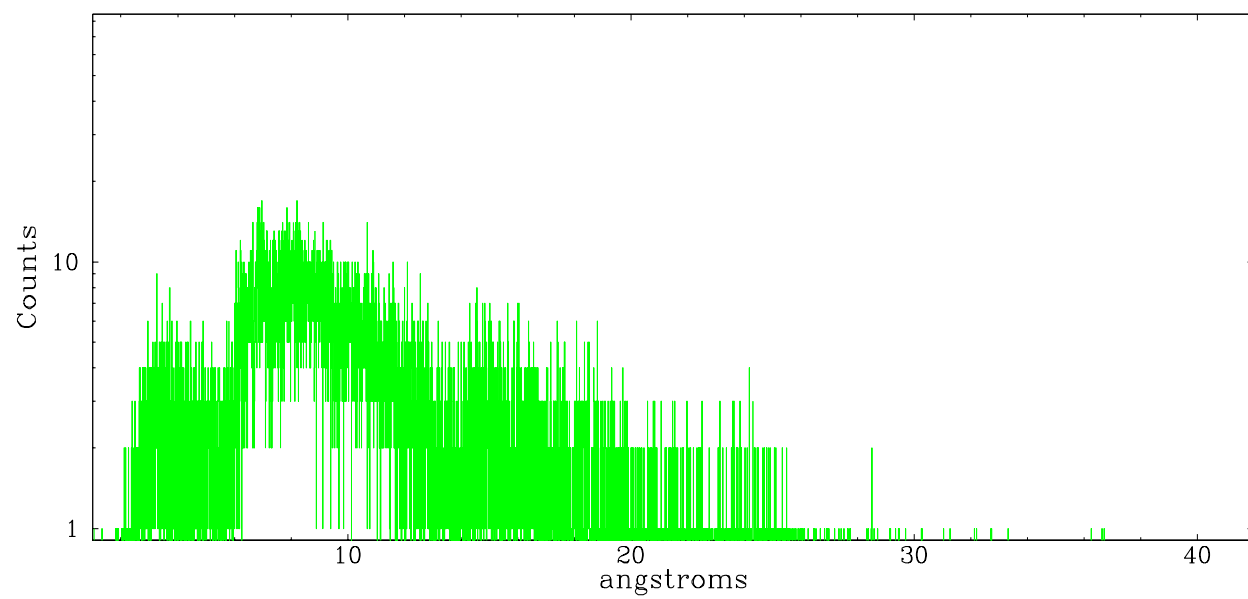


Full Detector MEG

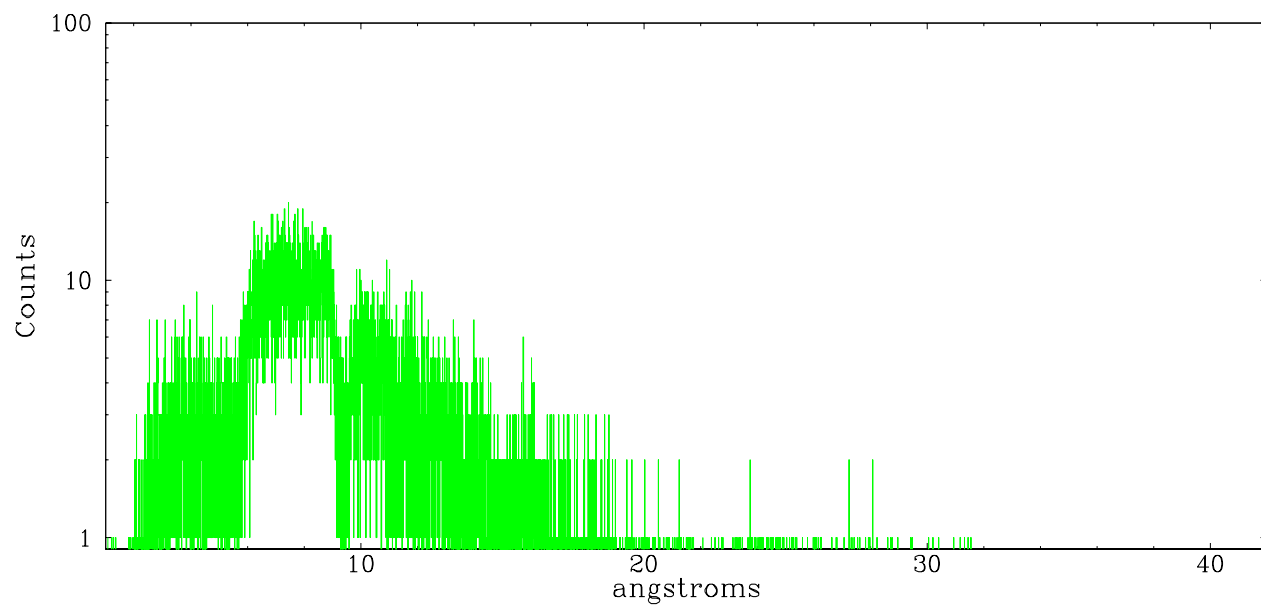
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1282	655	13577	18406	12799	584	1097



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.09.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	69.644

A.2 Comments