

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 2335 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Jun 19 2007

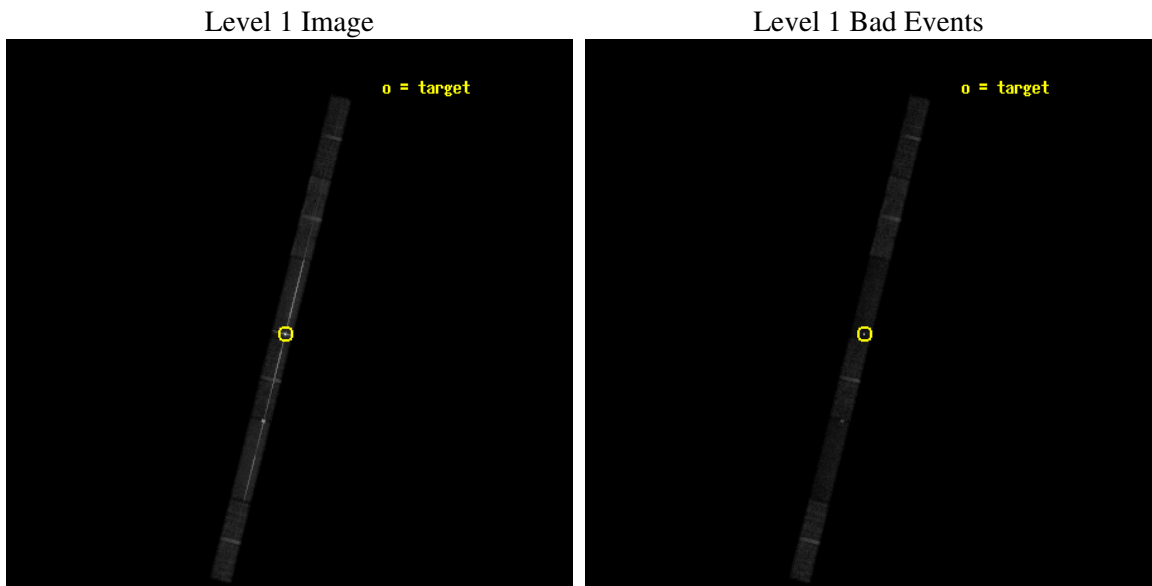
Contents

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	LETG Arm	17
A	Summary	19
A.1	Status	19
A.2	Comments	19

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	7.6.10
caldsver	3.4.0
date	2007-06-19T20:27:02
revision	2

sched_exp_time	30000.000000
ontime	30149.89983663
ontime4	30148.75881657
ontime5	30148.758796632
ontime6	30149.89983663
ontime7	30149.89983663
ontime8	30149.89983663
ontime9	30149.89983663
l1events	496802

2.1.4 Events

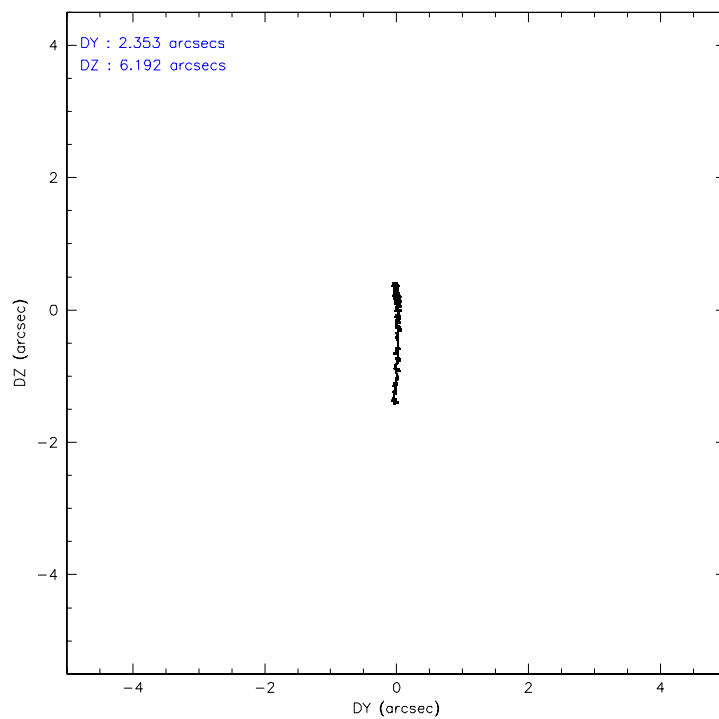
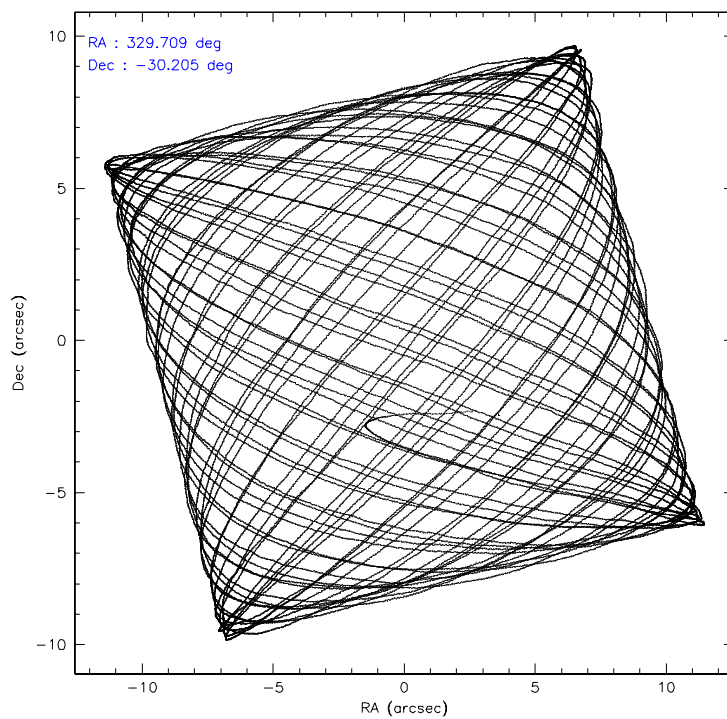
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	59500	85390	81240	153134	69910	47628
rejected events	52614	32834	45635	49540	54023	41042
rejected %	88%	38%	56%	32%	77%	86%

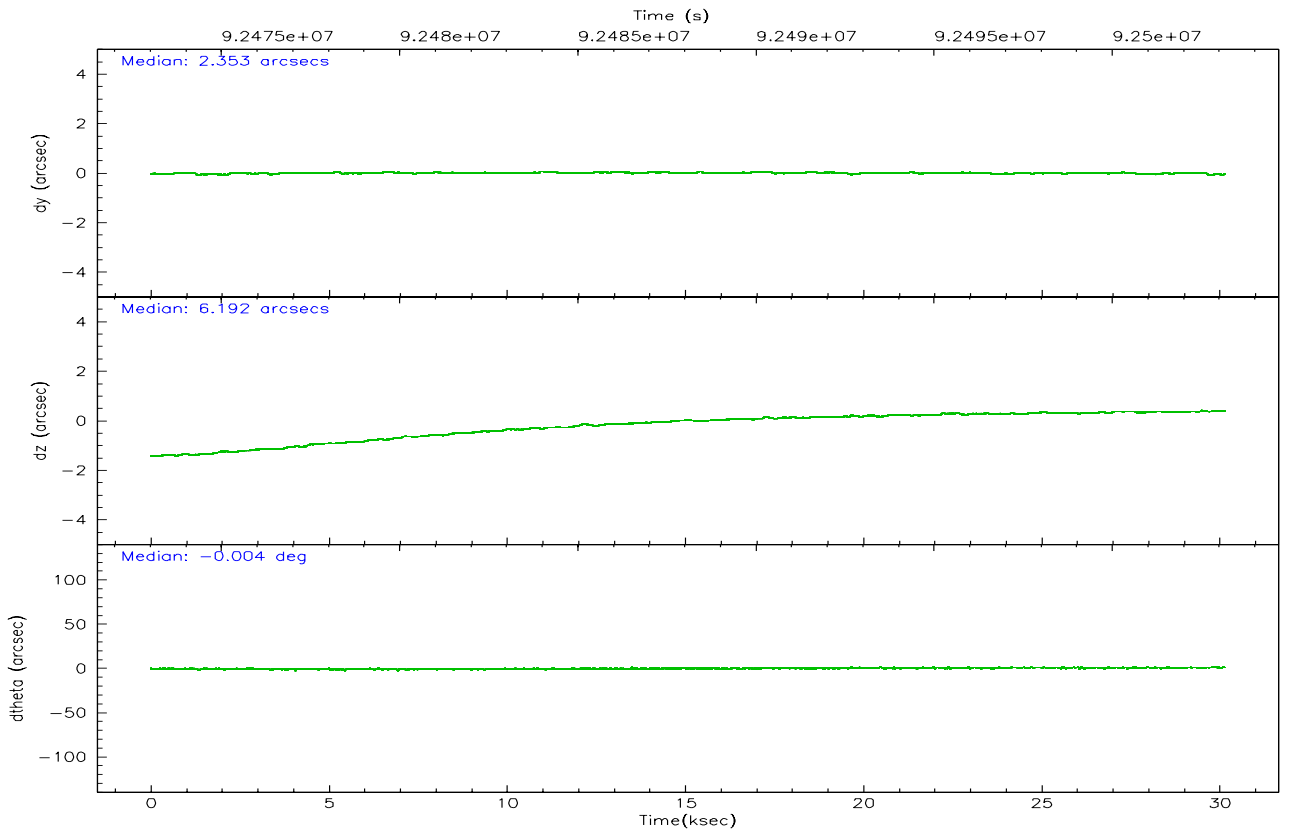
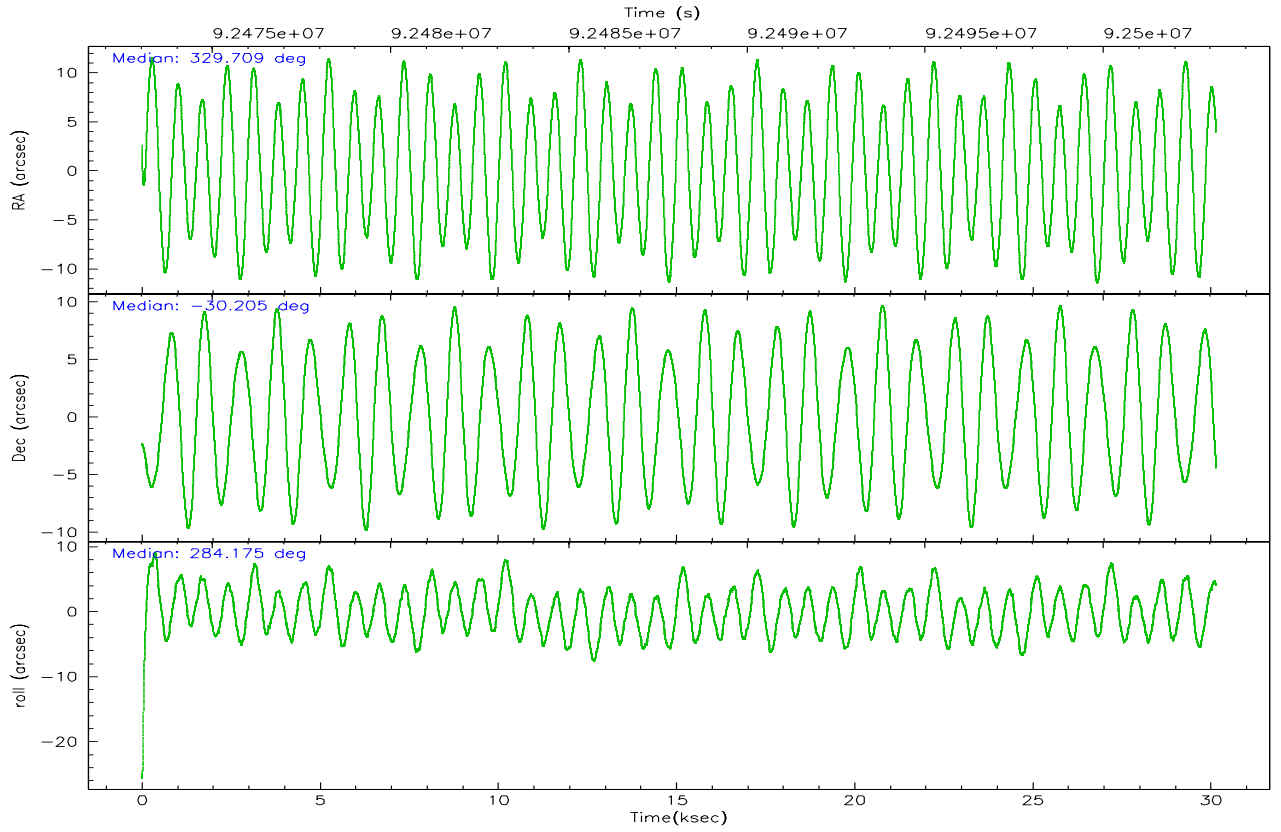
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	3073	20192	27711	27487	6769	3096
	5%	23%	34%	17%	9%	6%
grade 1 events	24	520	73	1137	30	12
	0%	0%	0%	0%	0%	0%
grade 2 events	1297	12088	3563	24471	2666	1025
	2%	14%	4%	15%	3%	2%
grade 3 events	870	3359	1594	11319	1681	822
	1%	3%	1%	7%	2%	1%
grade 4 events	791	3194	1540	11016	1650	789
	1%	3%	1%	7%	2%	1%
grade 5 events	1387	5884	1611	9611	2064	1546
	2%	6%	1%	6%	2%	3%
grade 6 events	982	14699	1471	30114	3382	970
	1%	17%	1%	19%	4%	2%
grade 7 events	51076	25454	43677	37979	51668	39368
	85%	29%	53%	24%	73%	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	LETG	LETG	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	329.686653	329.7088897146035	Subarray requested	CUSTOM	1/4
Pointing Dec	-30.186340	-30.2057889343576	Subarray start row	1	1
Pointing Roll	284.006737	284.1745387141834	Subarray row count	256	256
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	1.1
SIM translation stage pos (mm)	-182.132523	-182.1370004450064			
SIM translation stage offset (mm)	-8	-7.995522138001405			
Observation start time	92473171.184000	92472094.04126699			
Observation start date	2000-12-06T06:58:27	2000-12-06T06:41:34			
Observation end time	92503171.184000	92503305.29245999			
Observation end date	2000-12-06T15:18:27	2000-12-06T15:21:45			
Read mode	TIMED	TIMED			

2.3 Aspect



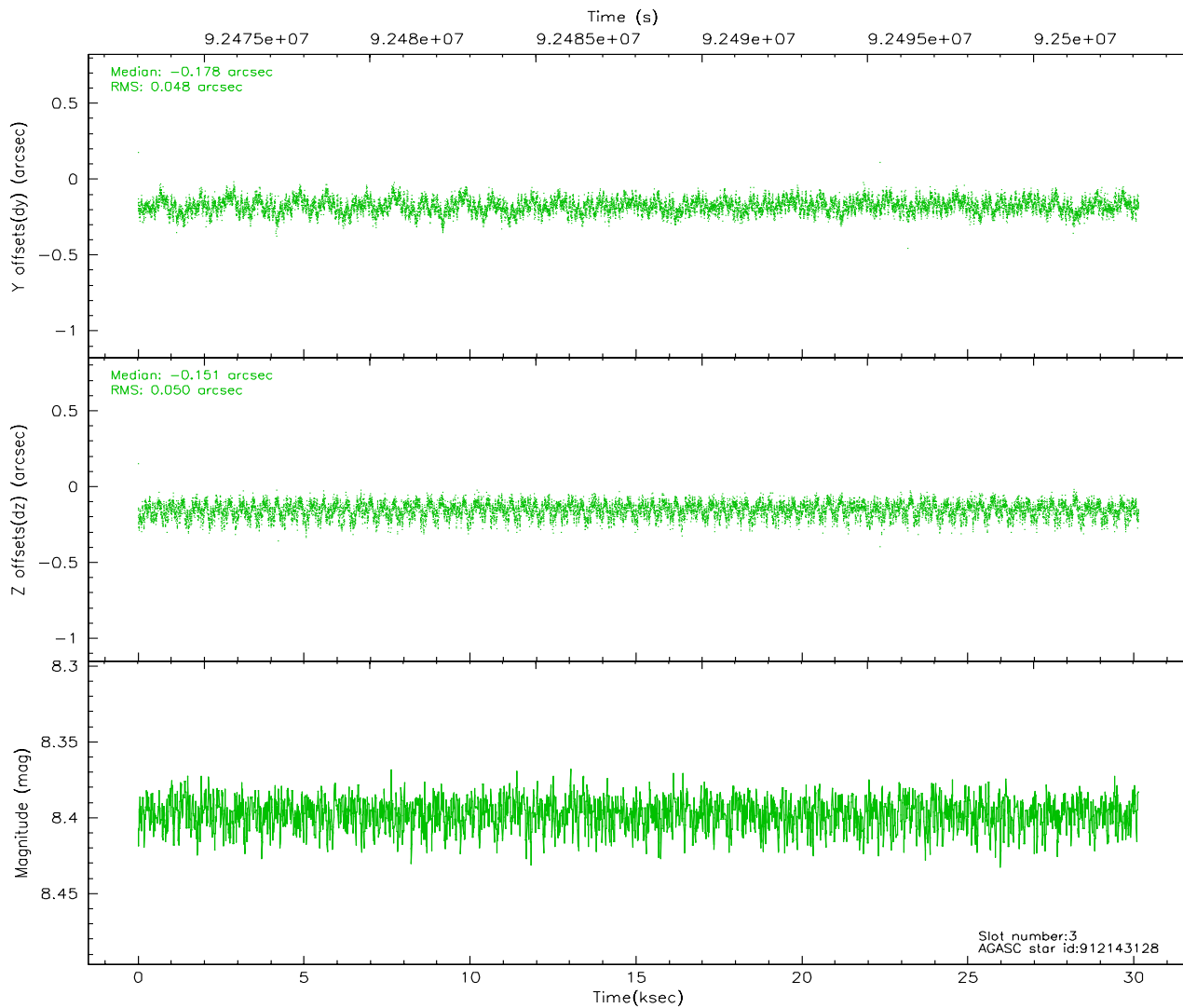
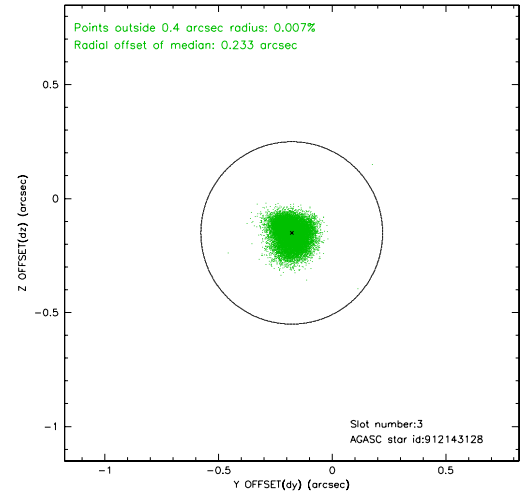
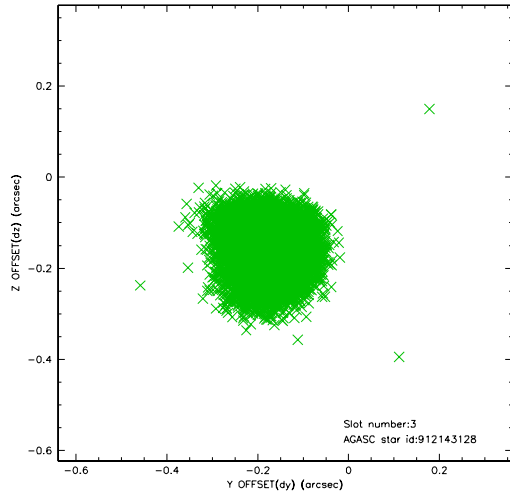


Slot Statistics

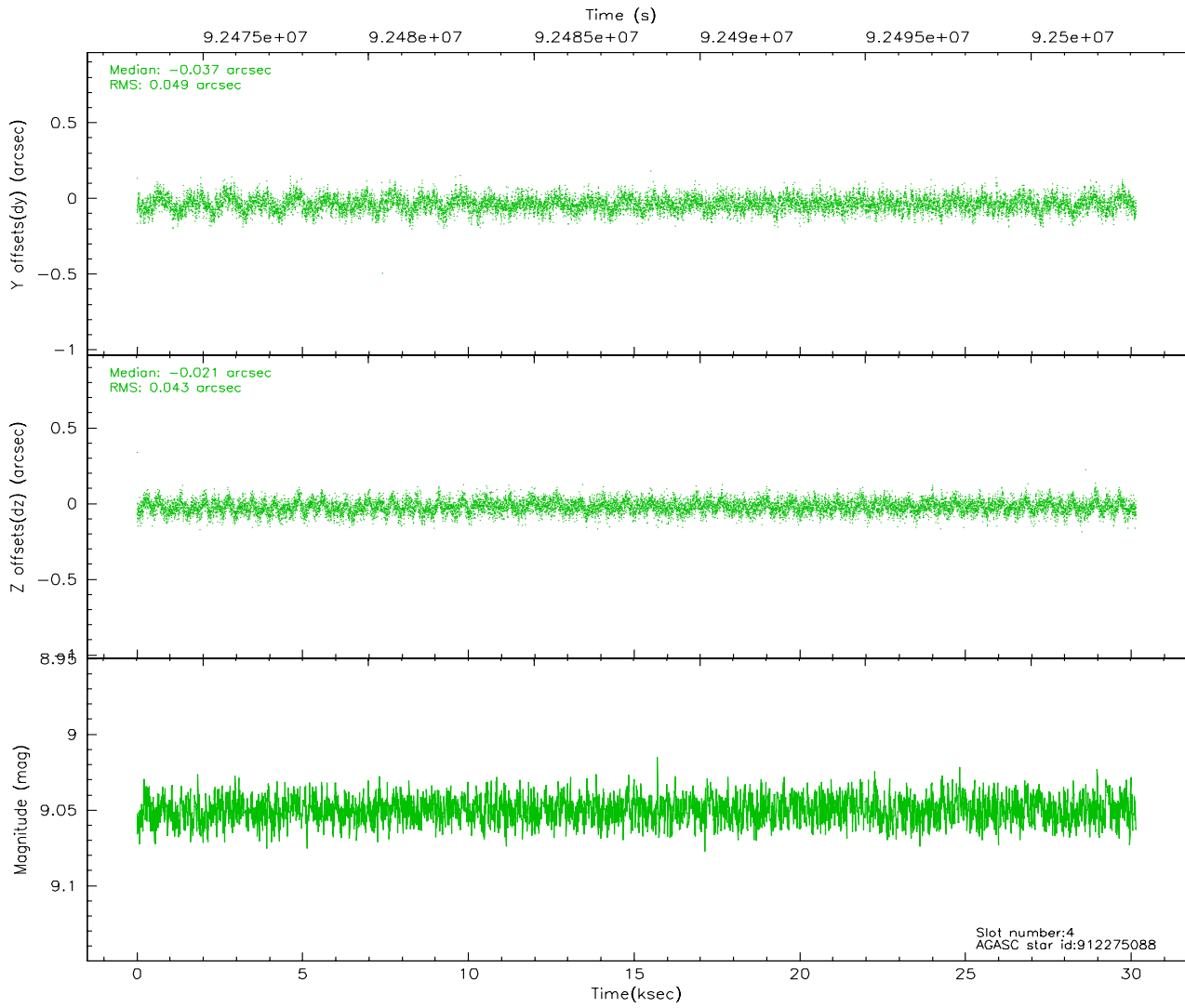
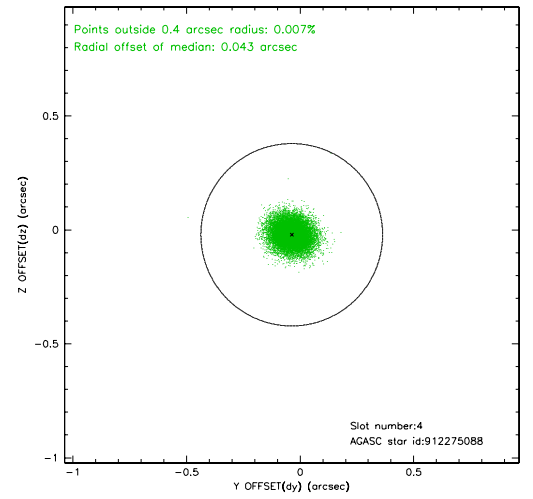
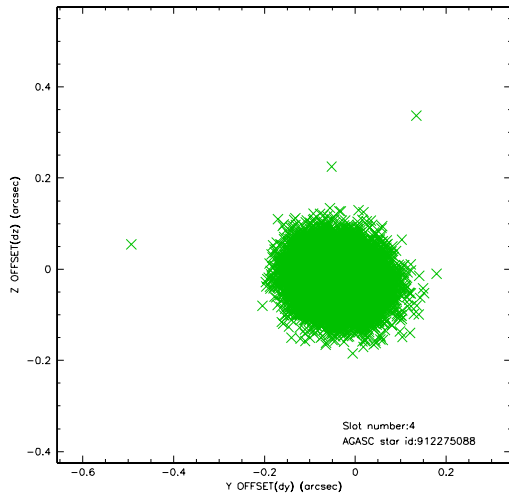
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	7354	-0.035	-0.065	0.017	0.025	0.000000	0.000000	-754.45	-1891.89
1	FID	ACIS-S-4	7.18	7354	-0.011	0.035	0.012	0.020	0.000000	0.000000	2158.83	16.57
2	FID	ACIS-S-5	7.23	7354	0.014	0.039	0.015	0.022	0.000000	0.000000	-1807.14	10.35
3	GUIDE	912143128	8.40	14708	-0.178	-0.151	0.074	0.116	328.924992	-29.706140	-2244.91	-1893.96
4	GUIDE	912275088	9.05	14705	-0.037	-0.021	0.070	0.113	329.619228	-29.738698	-1613.49	185.97
5	GUIDE	981478152	9.40	14700	0.050	0.103	0.080	0.131	329.415589	-30.057192	-653.39	-706.52
6	GUIDE	981468128	9.37	14701	0.109	-0.001	0.081	0.133	329.756350	-30.158334	-43.92	235.42
7	GUIDE	981469488	9.59	14700	0.063	0.069	0.125	0.207	329.261199	-30.045155	-810.38	-1163.33

2.4 Star Slots

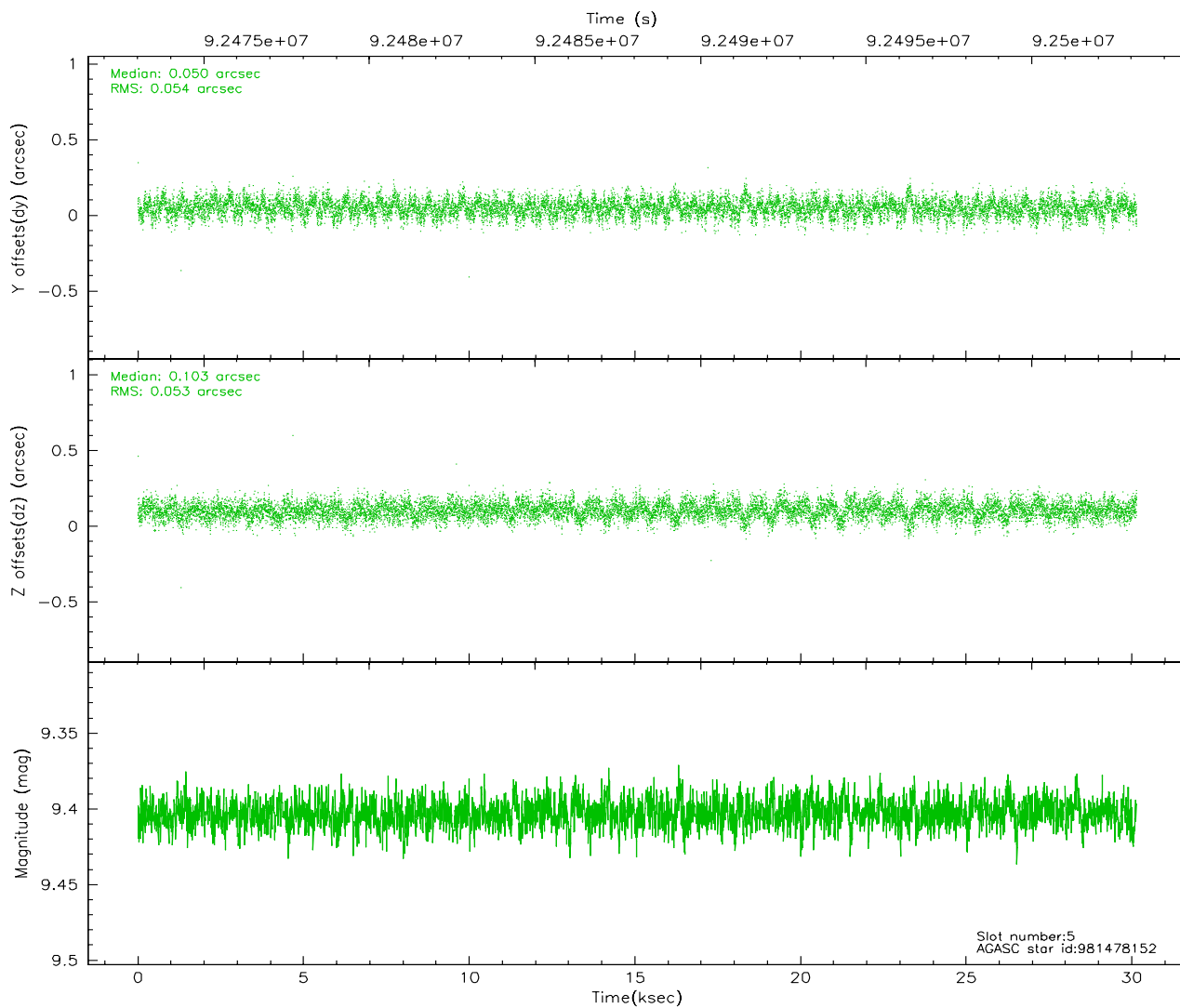
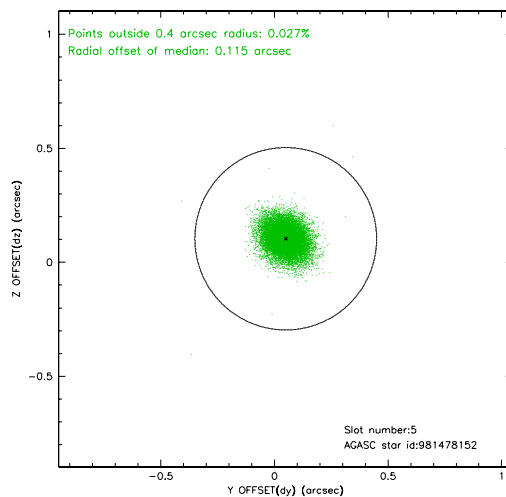
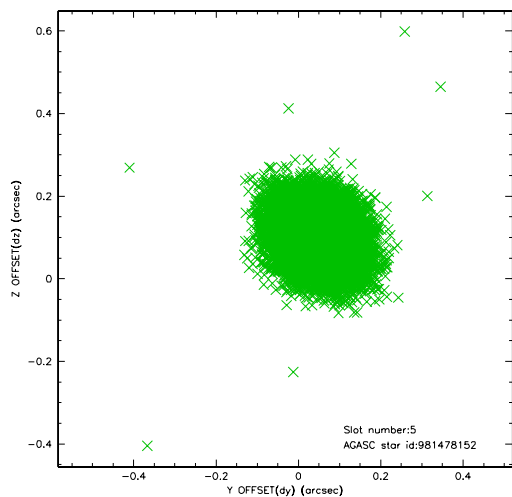
2.4.1 Slot 3



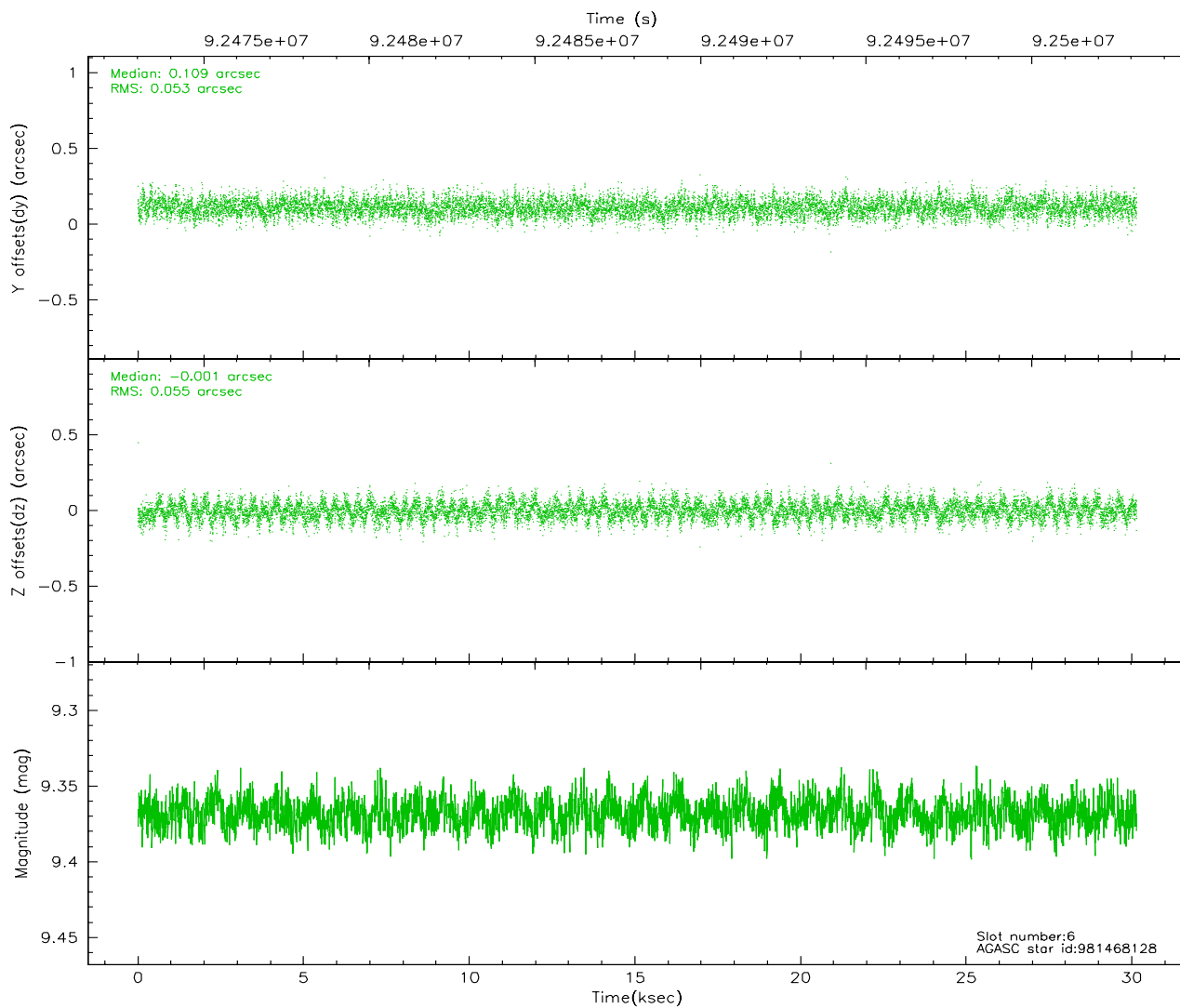
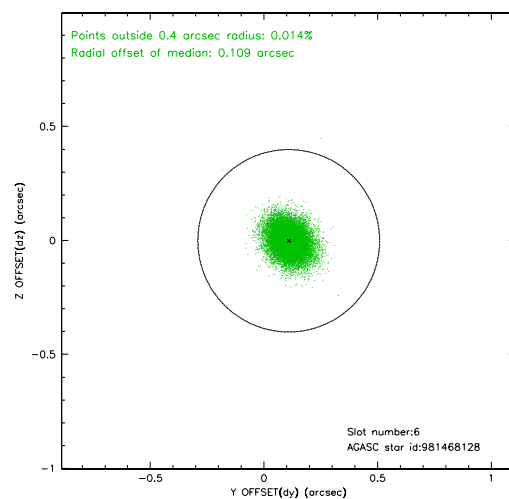
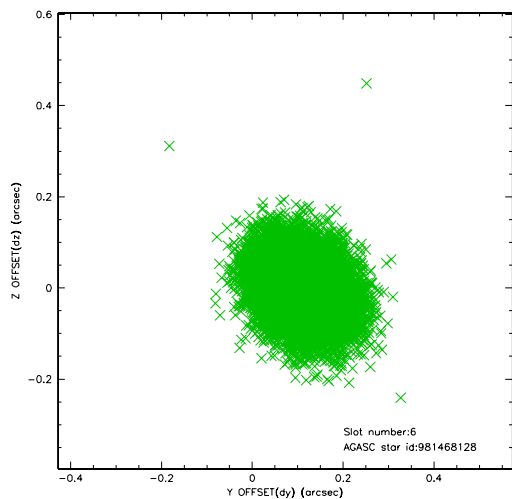
2.4.2 Slot 4



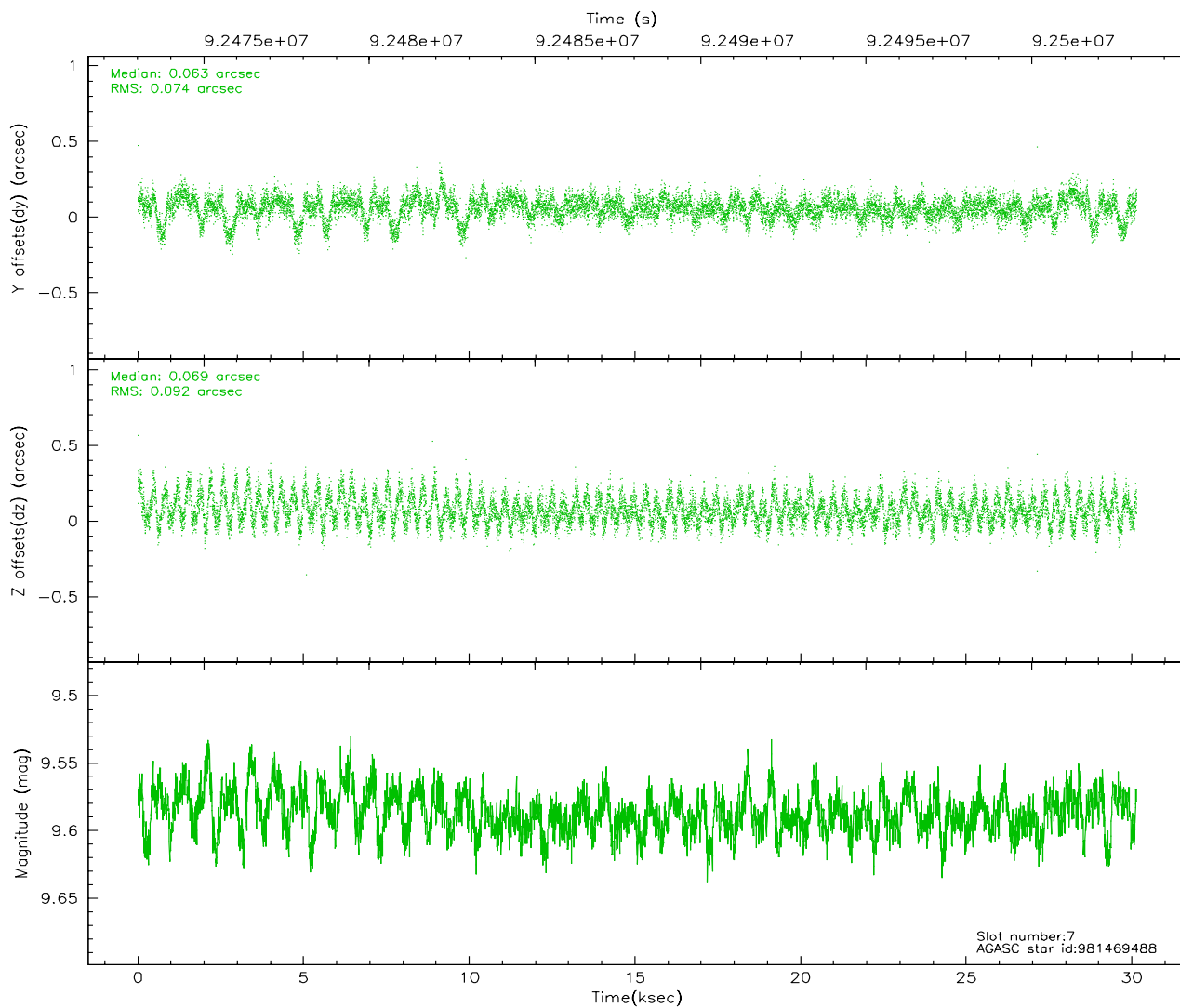
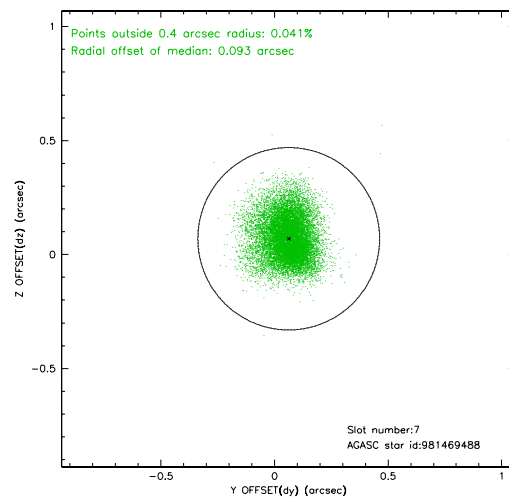
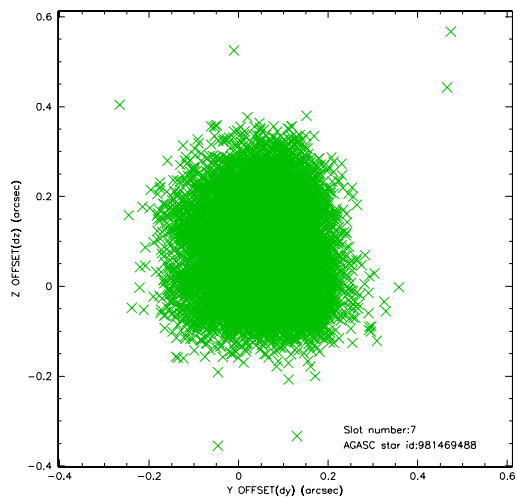
2.4.3 Slot 5



2.4.4 Slot 6

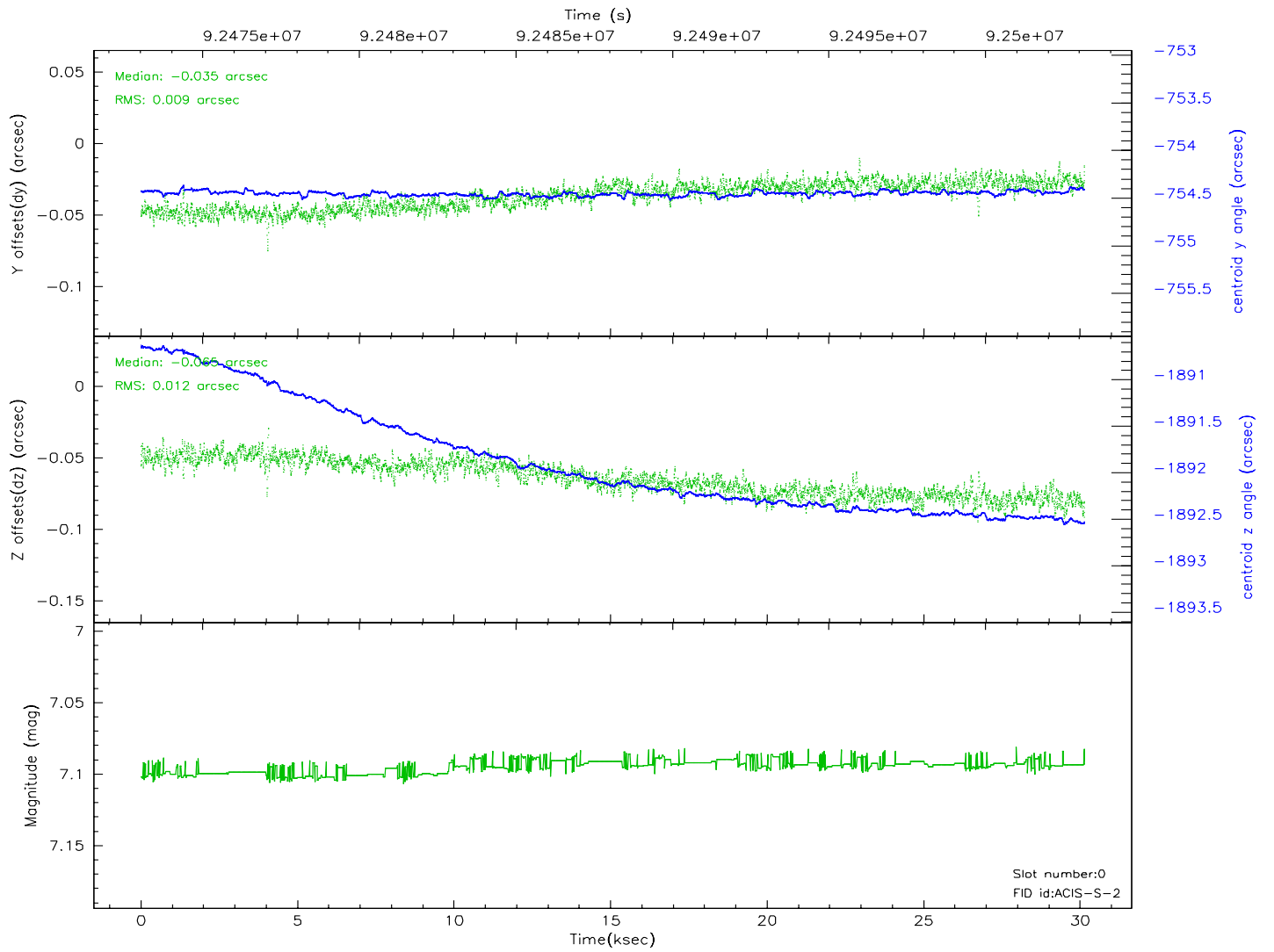
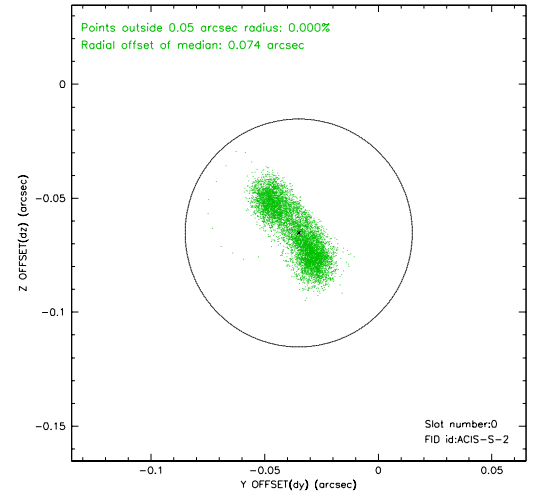
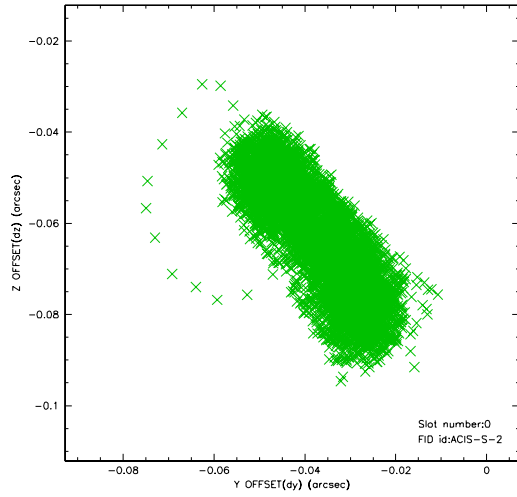


2.4.5 Slot 7

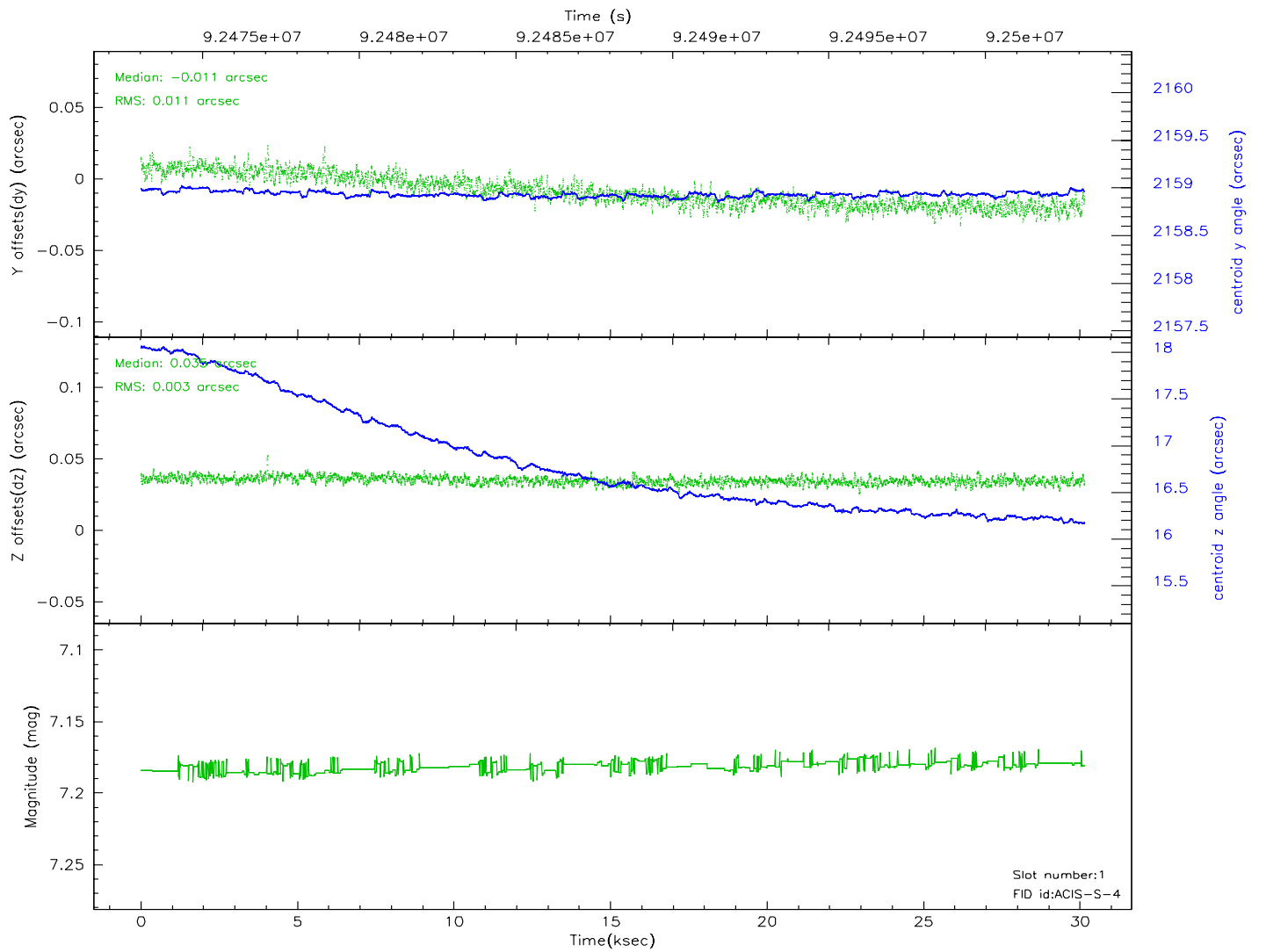
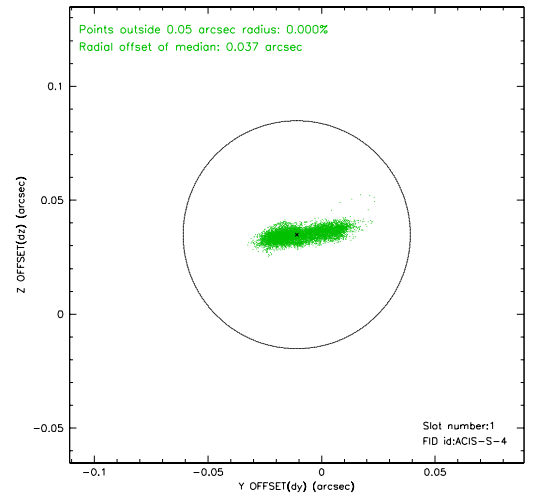
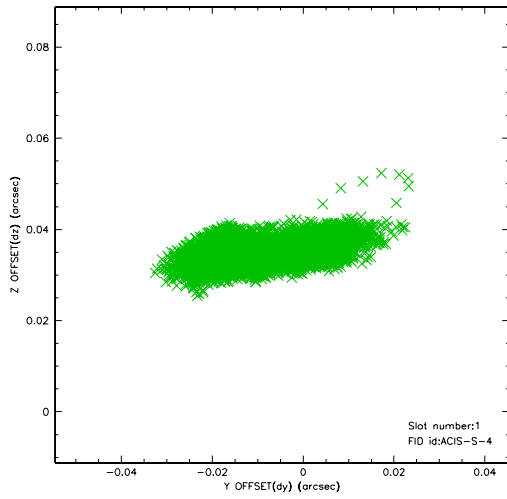


2.5 FID Slots

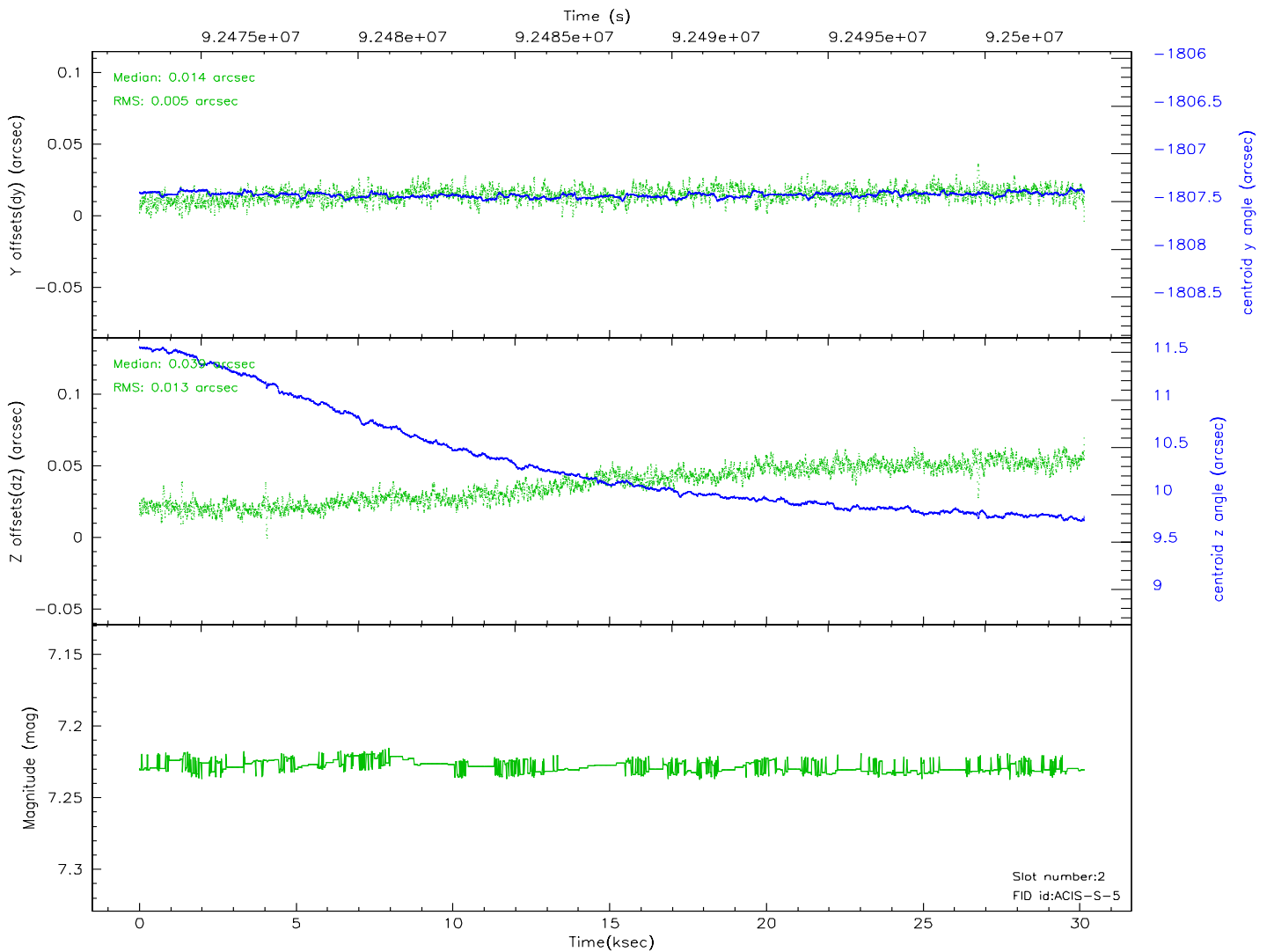
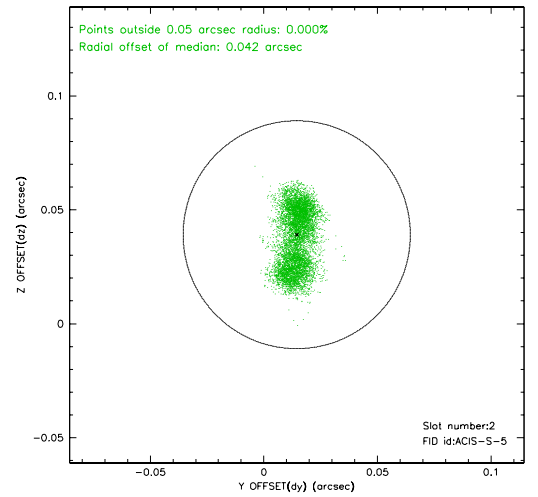
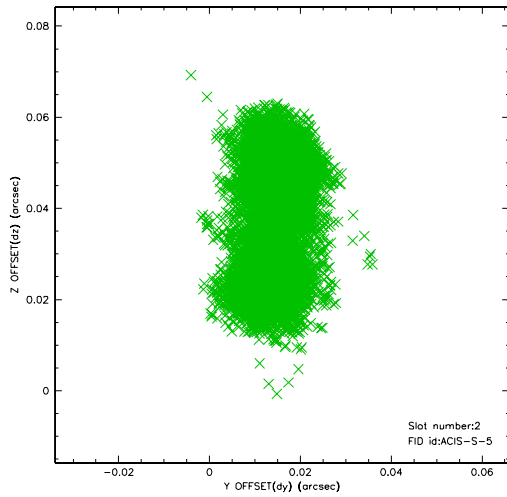
2.5.1 Slot 0



2.5.2 Slot 1

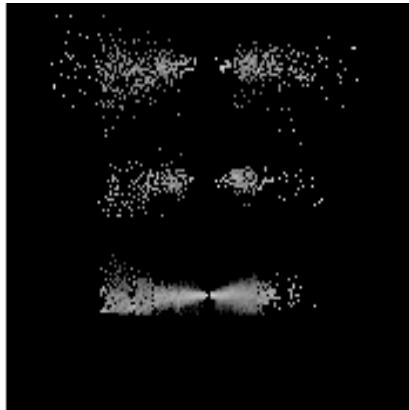


2.5.3 Slot 2

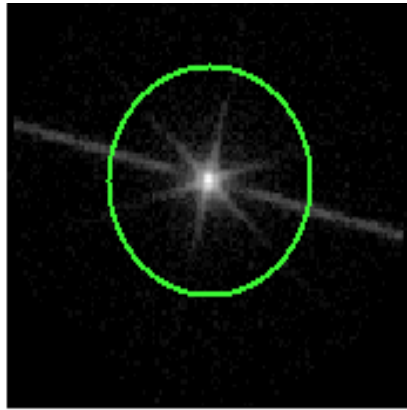


3 Gratings

3.1 LETG Arm



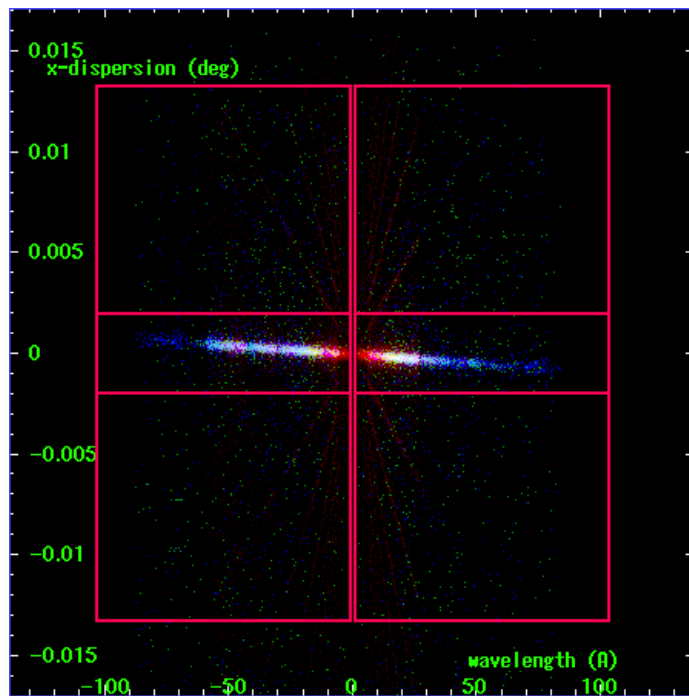
LETG Order Sort 123



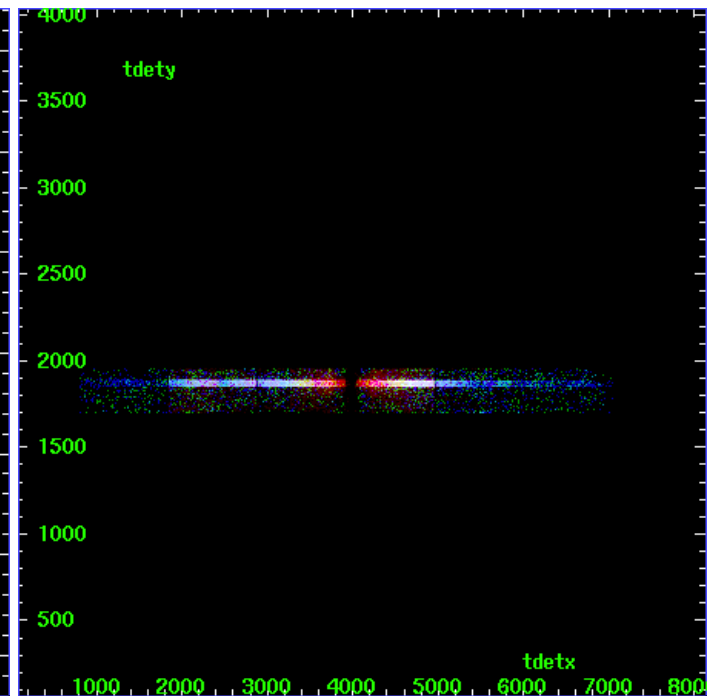
LETG Zero Order



LETG Order Sort ALL

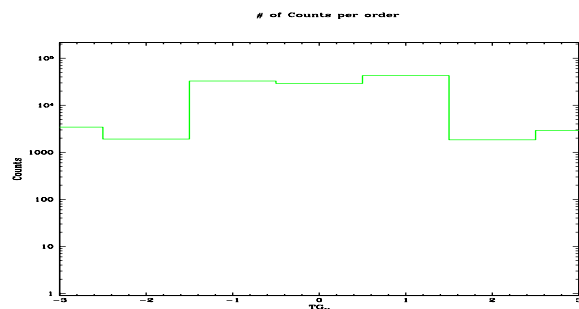


Spot Image LETG

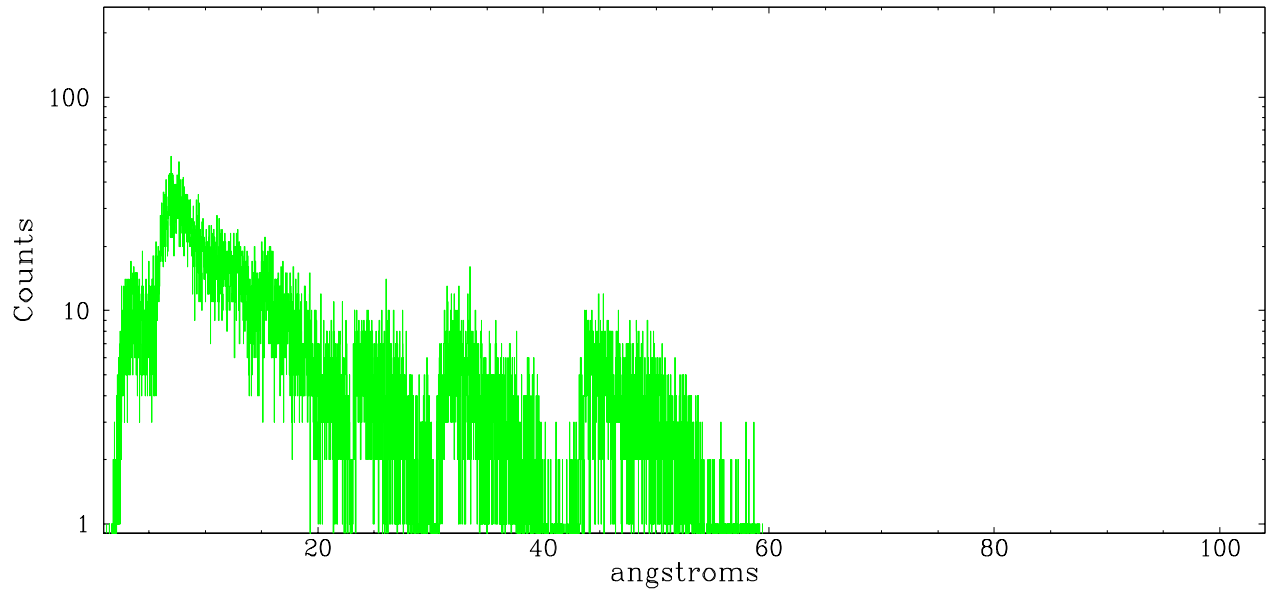


Full Detector LETG

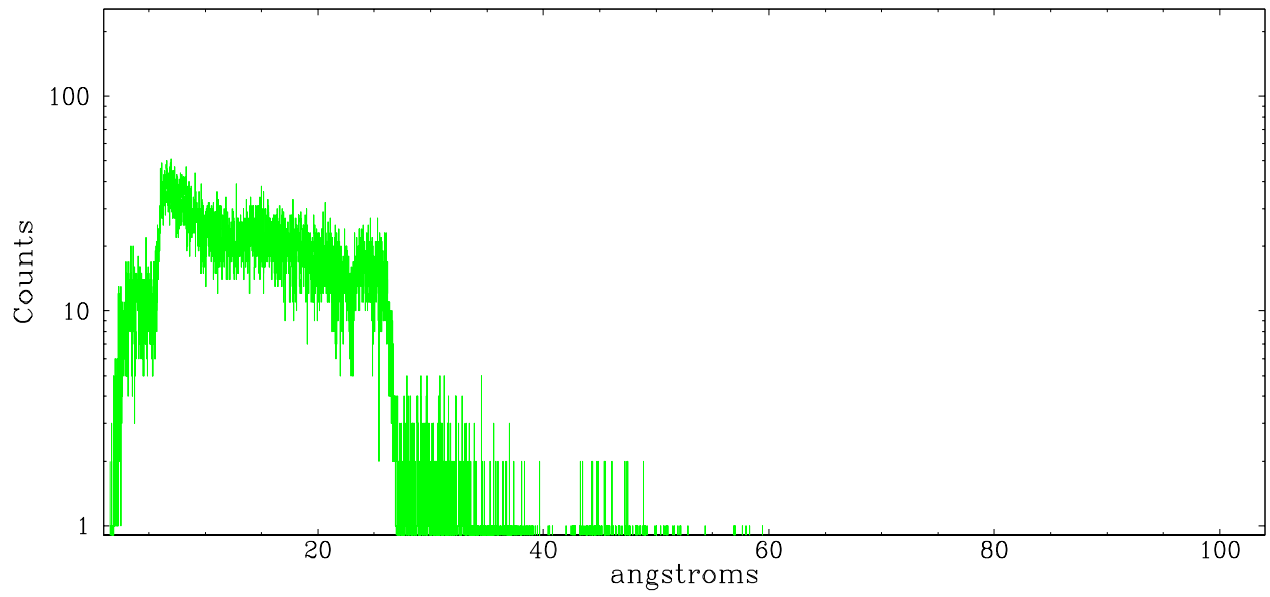
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	3449	1910	32741	29209	42908	1838	2905



leg order -1



leg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.07.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.149

A.2 Comments