

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 7363 - L2 Version 2
Chandra X-Ray Center

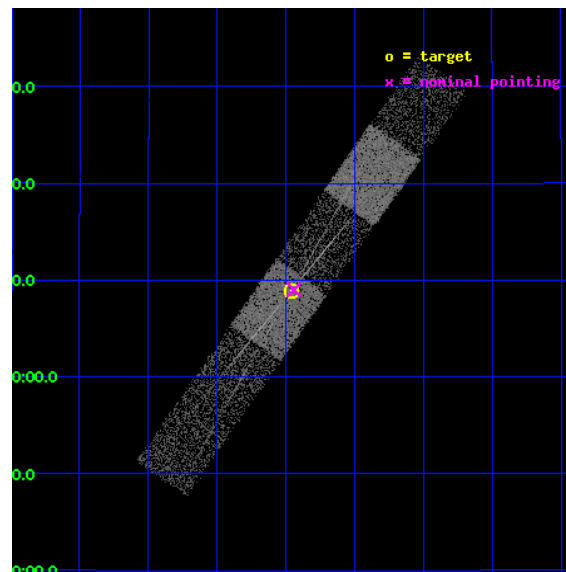
L2 Processing Date : Apr 27 2012

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

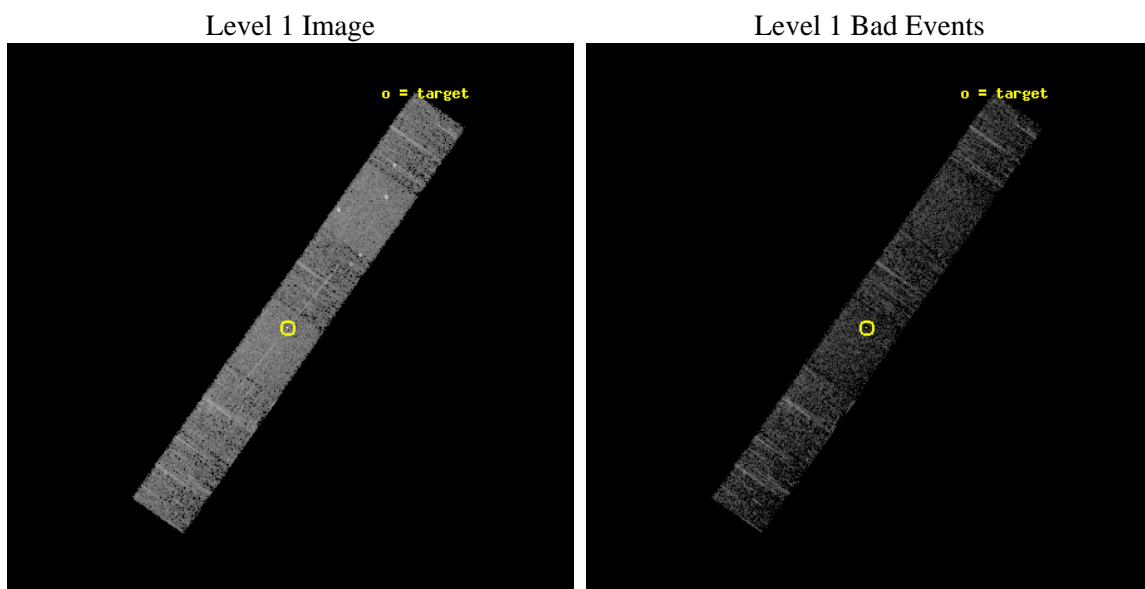
seq_num	701349	Sequence number
obs_id	7363	Observation id
title	Coordinated Spitzer/Chandra Observations of Gamma Ray Blazars	Prop
observer	Dr. Ann Wehrle	Principal investigator
object	3C454.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	343.490417	Observer's specified target RA [deg]
dec_targ	16.148194	Observer's specified target Dec [deg]
ra_nom	343.48556568454	Nominal RA [deg]
dec_nom	16.150067929255	Nominal Dec [deg]
roll_nom	125.06649698754	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2041.5615264177	Sum of GTIs [s]
livetime	2008.5885369944	Livetime [s]
ontime4	2041.602566421	Sum of GTIs [s]
ontime5	2041.5204864144	Sum of GTIs [s]
ontime6	2041.4794464111	Sum of GTIs [s]
ontime7	2041.5615264177	Sum of GTIs [s]
ontime8	2041.4384064078	Sum of GTIs [s]
ontime9	2041.3973664045	Sum of GTIs [s]
l2events	27493	Number of level 2 events



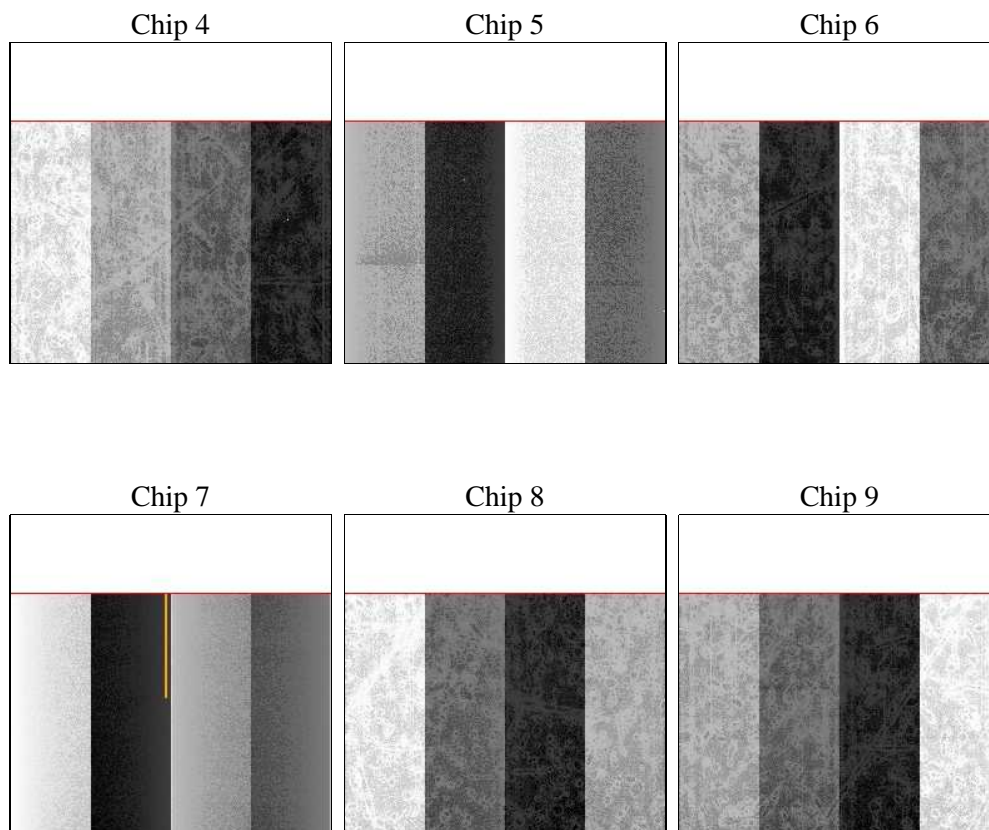
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2041.5615264177	Sum of GTIs [s]
caldsver	4.4.9	 	ontime4	2041.602566421	Sum of GTIs [s]
date	2012-04-28T00:12:27	Date and time of file creation	ontime5	2041.5204864144	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	2041.4794464111	Sum of GTIs [s]
			ontime7	2041.5615264177	Sum of GTIs [s]
			ontime8	2041.4384064078	Sum of GTIs [s]
			ontime9	2041.3973664045	Sum of GTIs [s]
			l1events	113842	Number of level 1 events

2.1.4 Events

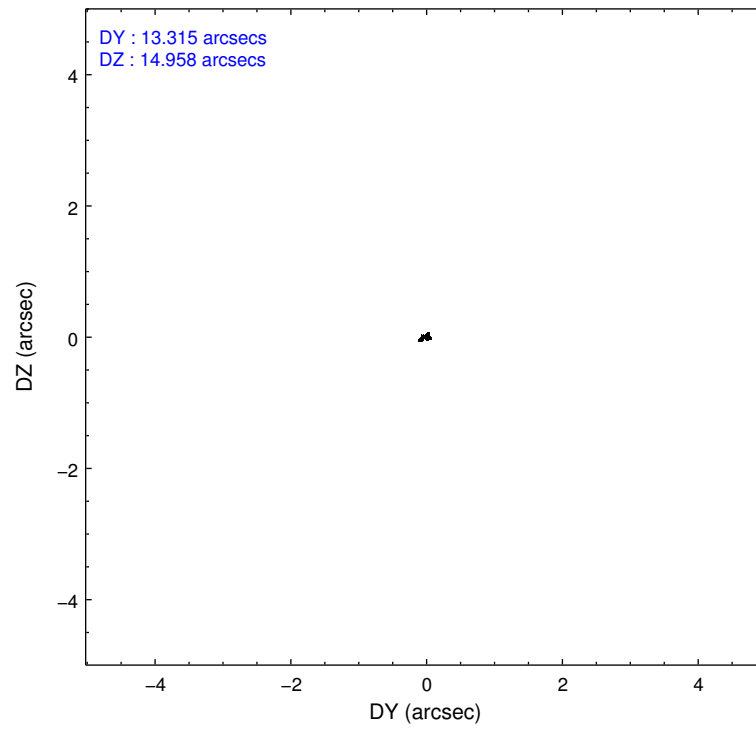
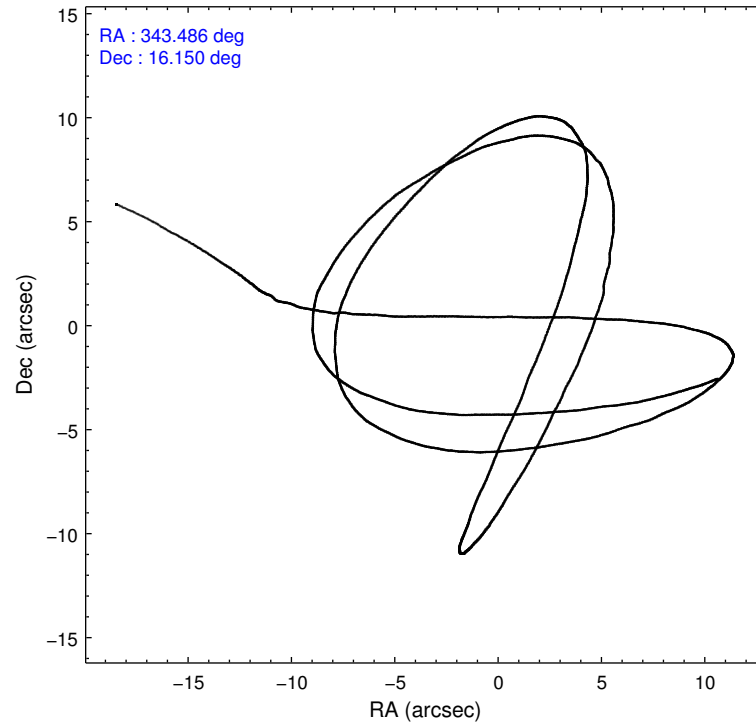
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	16360	24002	15804	21607	20114	15955
rejected events	14012	11930	13049	11764	15524	13951
rejected %	85%	49%	82%	54%	77%	87%

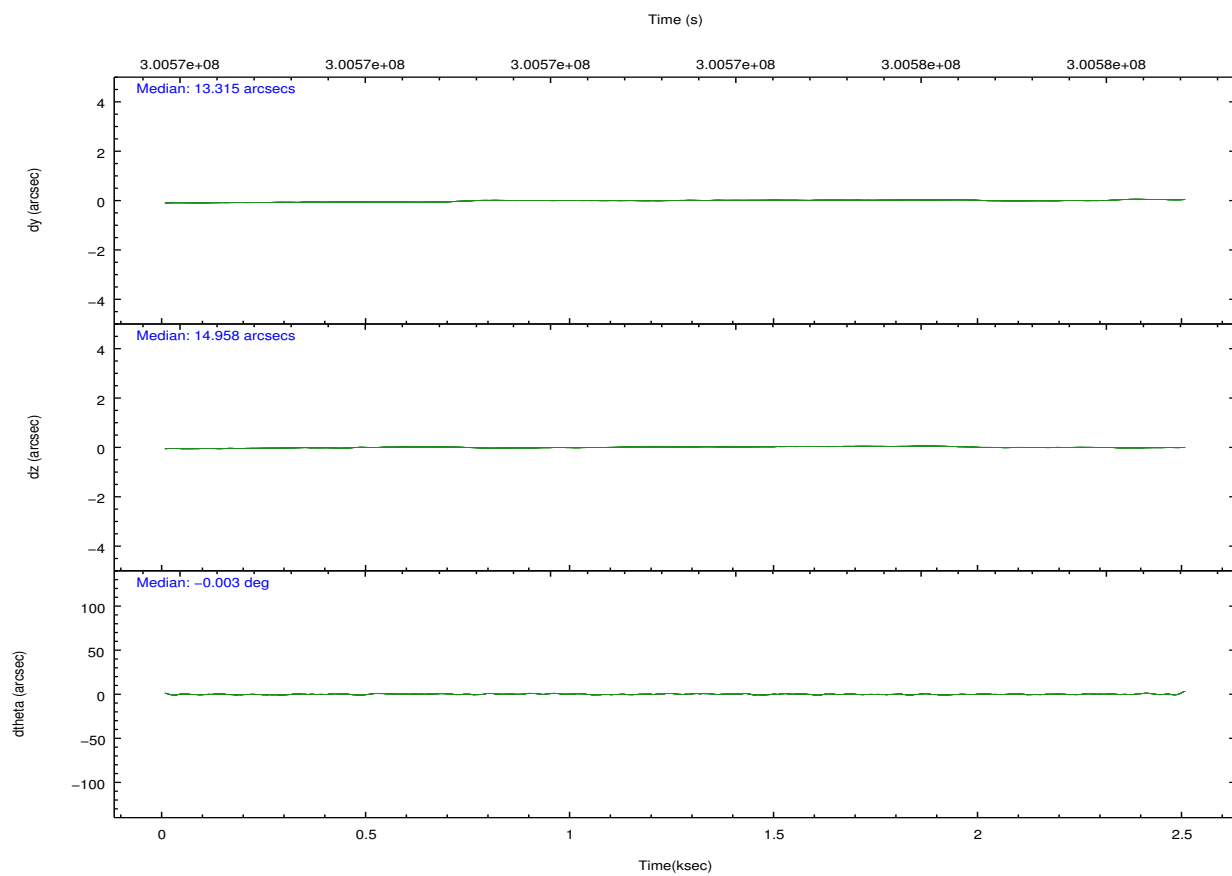
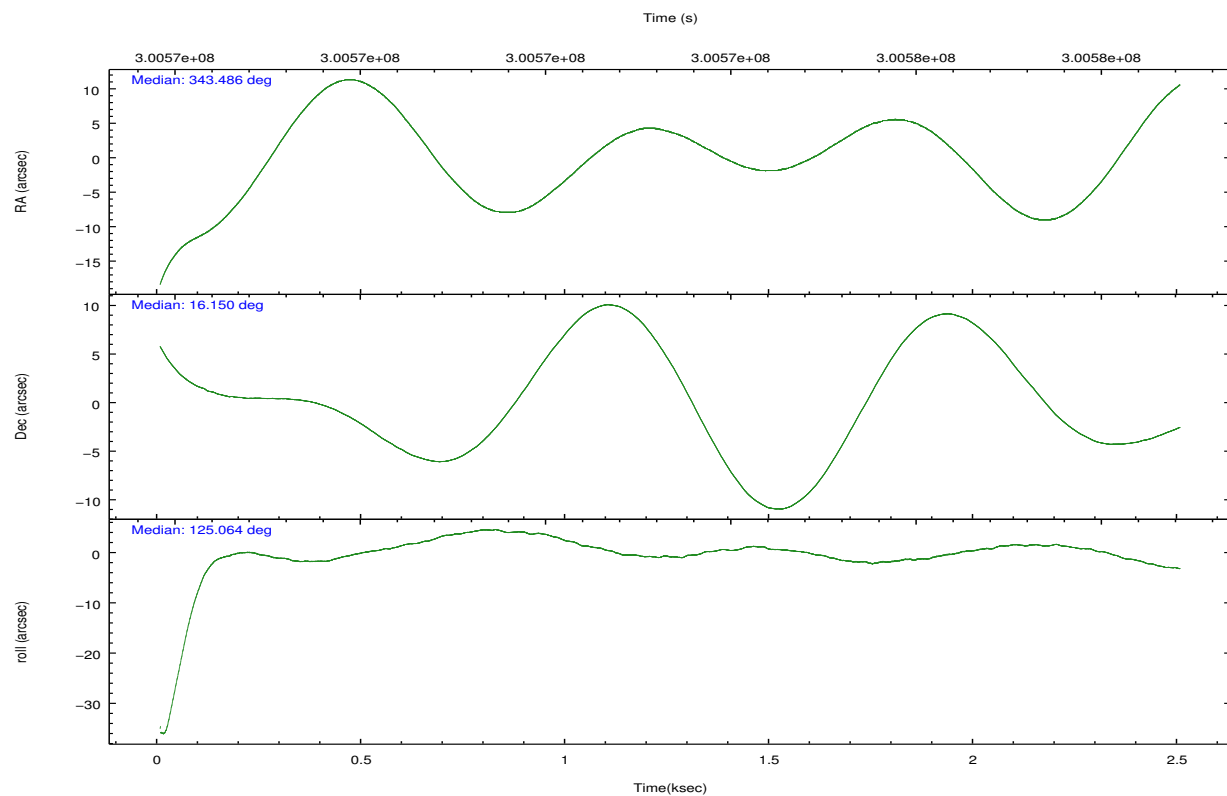
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	1229	1598	1477	1016	1680	838
	7%	6%	9%	4%	8%	5%
grade 1 events	11	83	13	40	16	92
	0%	0%	0%	0%	0%	0%
grade 2 events	444	3971	494	2074	866	428
	2%	16%	3%	9%	4%	2%
grade 3 events	184	463	216	976	477	190
	1%	1%	1%	4%	2%	1%
grade 4 events	175	476	184	889	444	192
	1%	1%	1%	4%	2%	1%
grade 5 events	677	1712	718	2041	908	814
	4%	7%	4%	9%	4%	5%
grade 6 events	320	5602	392	4917	1140	359
	1%	23%	2%	22%	5%	2%
grade 7 events	13320	10097	12310	9654	14583	13042
	81%	42%	77%	44%	72%	81%

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	343.511756	343.4855656845434	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	16.138913	16.15006792925499	Subarray start row	1	1
[deg] Pointing Roll	124.902768	125.0664969875399	Subarray row count	774	774
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	2.5
[mm] SIM translation stage pos	-187.132523	-187.1254020033014			
[mm] SIM translation stage offset	-3	-3.007120579706367			
[s] Observation start time (MET)	300573597.184000	300572379.09469			
Observation start date	2007-07-11T20:38:52	2007-07-11T20:19:39			
[s] Observation end time (MET)	300575597.184000	300576463.71988			
Observation end date	2007-07-11T21:12:12	2007-07-11T21:27:43			
Read mode	TIMED	TIMED			

2.3 Aspect



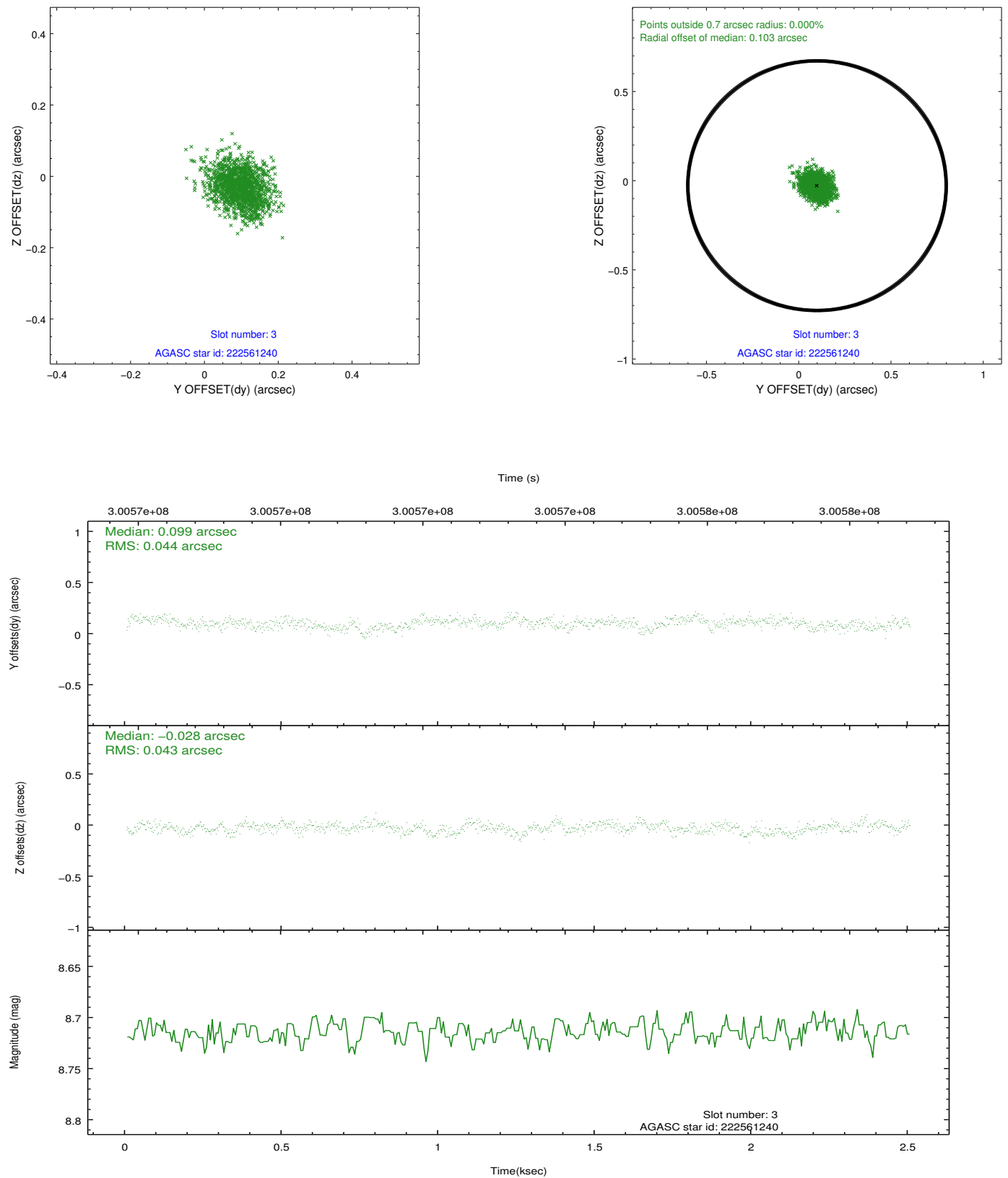


Slot Statistics

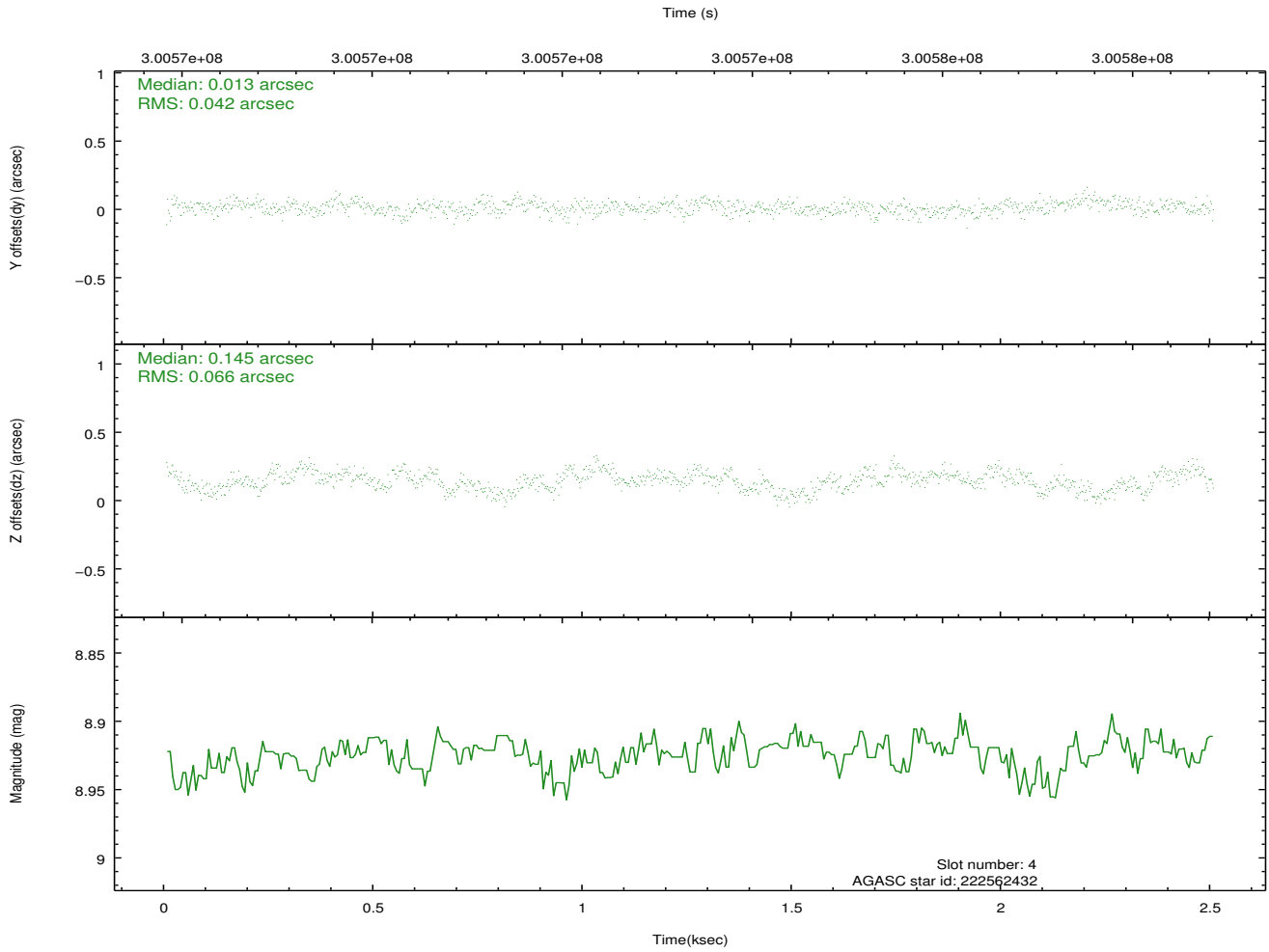
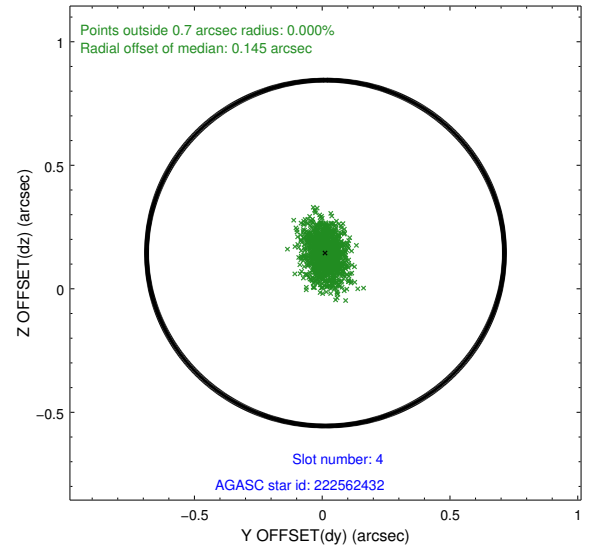
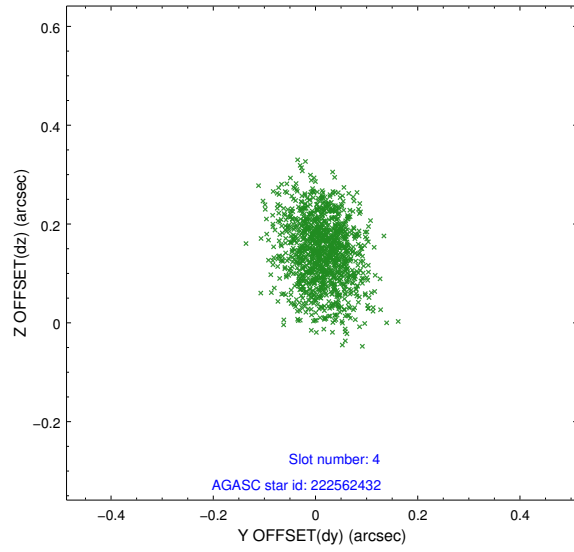
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.08	610	-0.136	-0.107	0.006	0.011	0.000000	0.000000	-766.18	-1798.52
1	FID	ACIS-S-4	7.17	610	0.142	0.062	0.007	0.011	0.000000	0.000000	2146.22	107.30
2	FID	ACIS-S-6	7.35	610	-0.035	0.051	0.008	0.012	0.000000	0.000000	399.26	747.66
3	GUIDE	222561240	8.71	1221	0.099	-0.028	0.066	0.106	343.355884	15.743652	-857.93	1255.98
4	GUIDE	222562432	8.92	1221	0.013	0.145	0.084	0.140	343.698150	16.309399	134.17	-879.13
5	GUIDE	222563736	8.80	1221	-0.134	-0.188	0.064	0.104	343.076284	16.308502	1362.66	881.39
6	GUIDE	222565592	8.25	1221	-0.139	0.133	0.053	0.088	343.291662	16.508291	1526.59	-137.19
7	GUIDE	222565552	9.35	1219	0.165	-0.052	0.079	0.129	343.598601	15.997226	-589.02	44.67

2.4 Star Slots

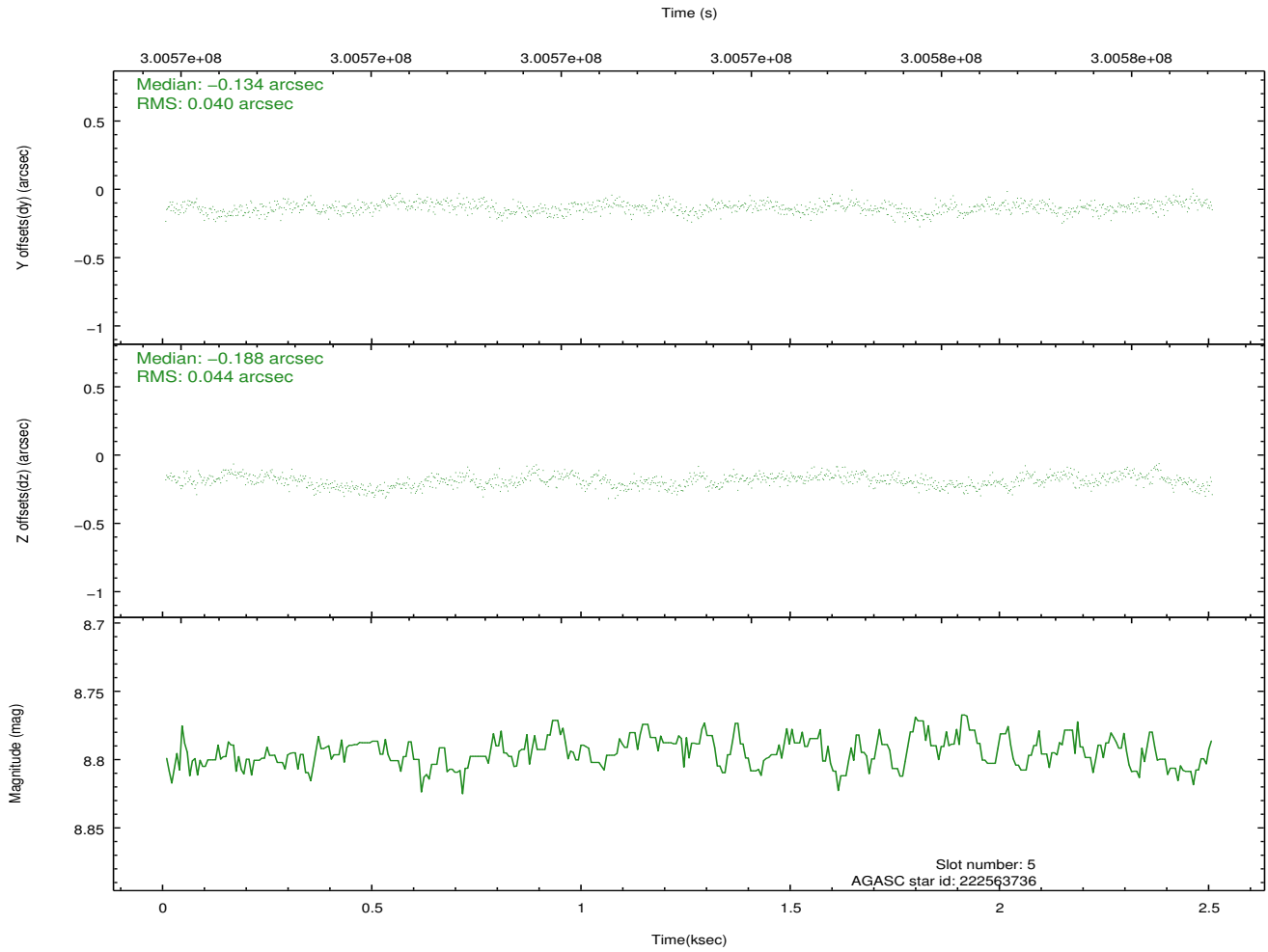
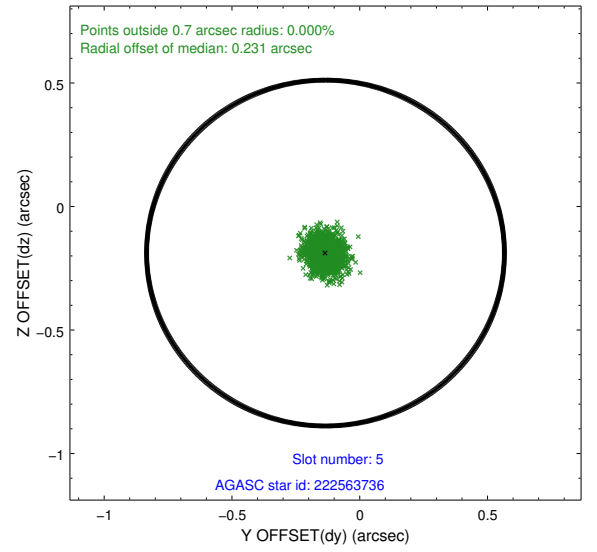
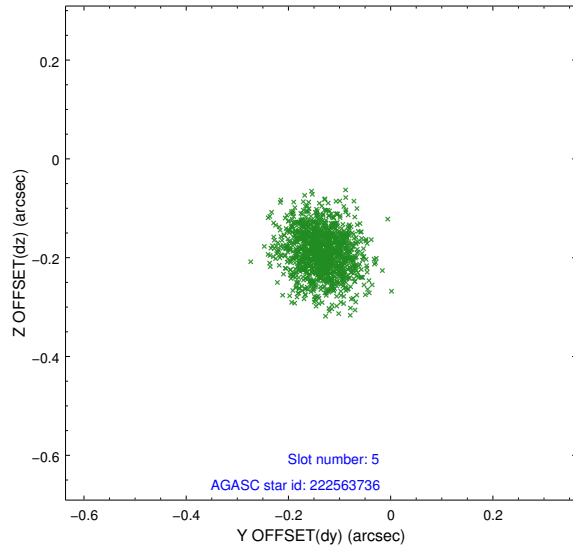
2.4.1 Slot 3



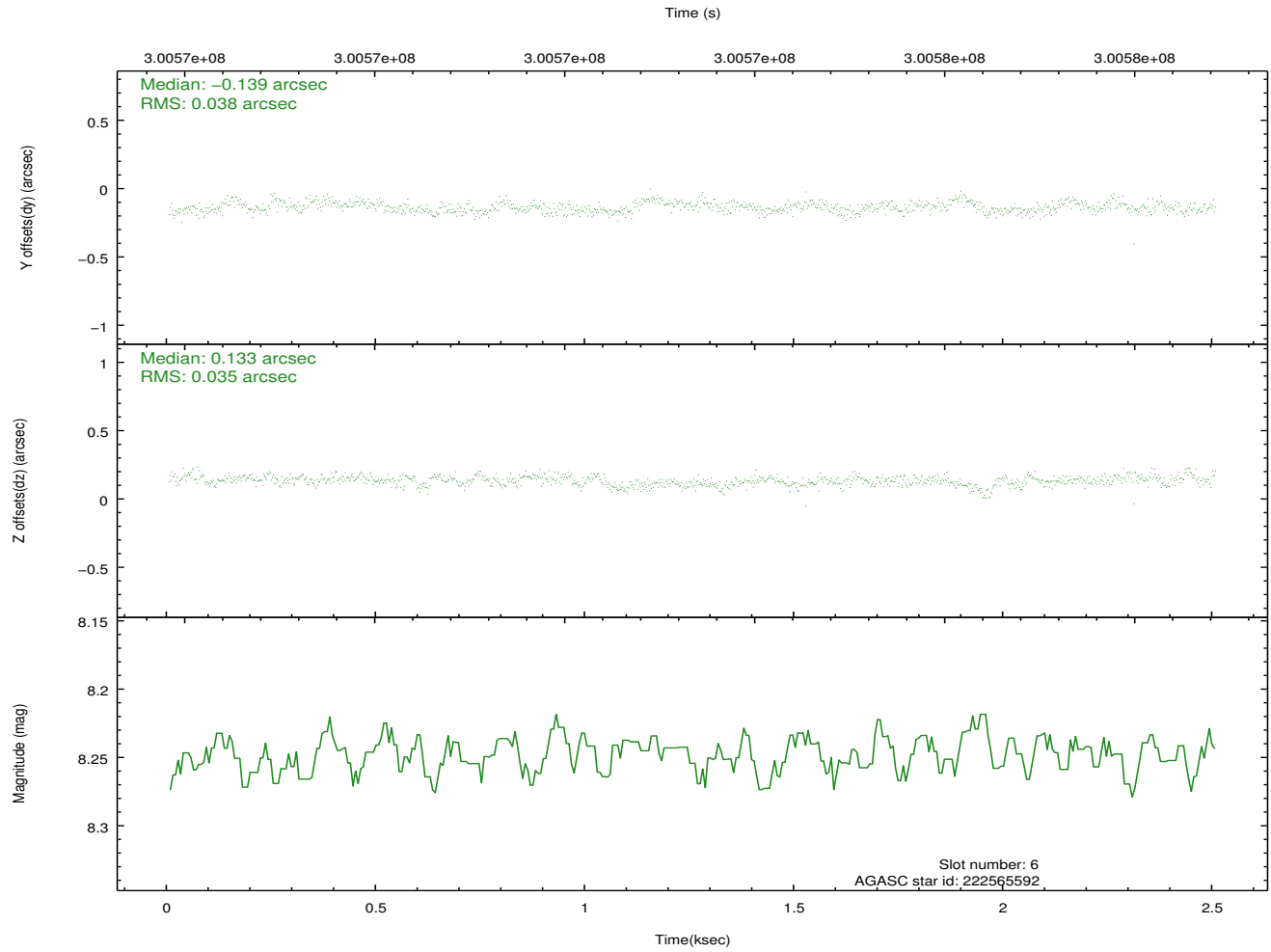
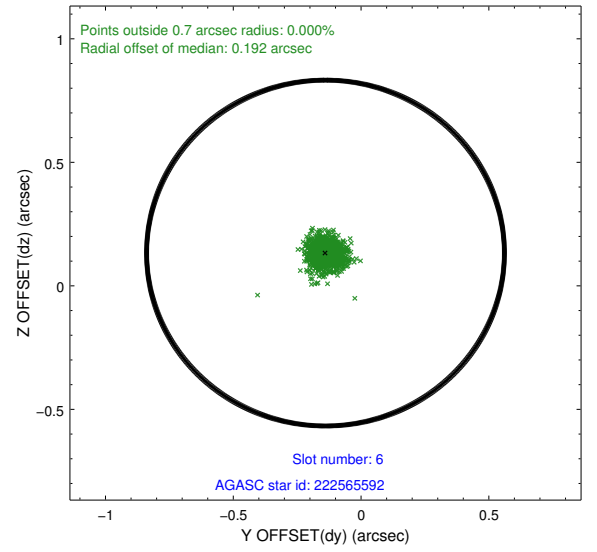
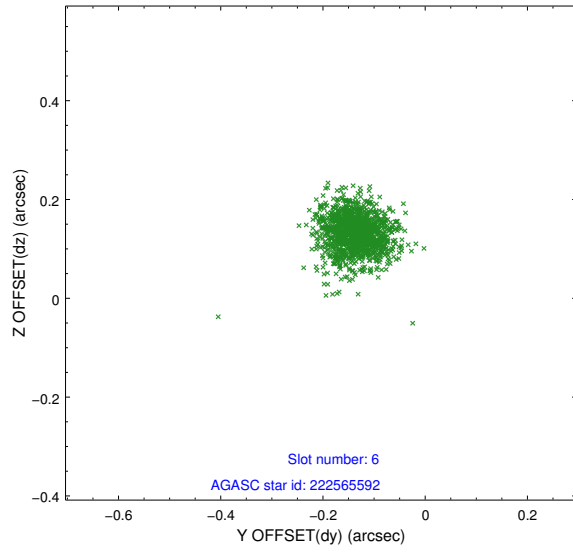
2.4.2 Slot 4



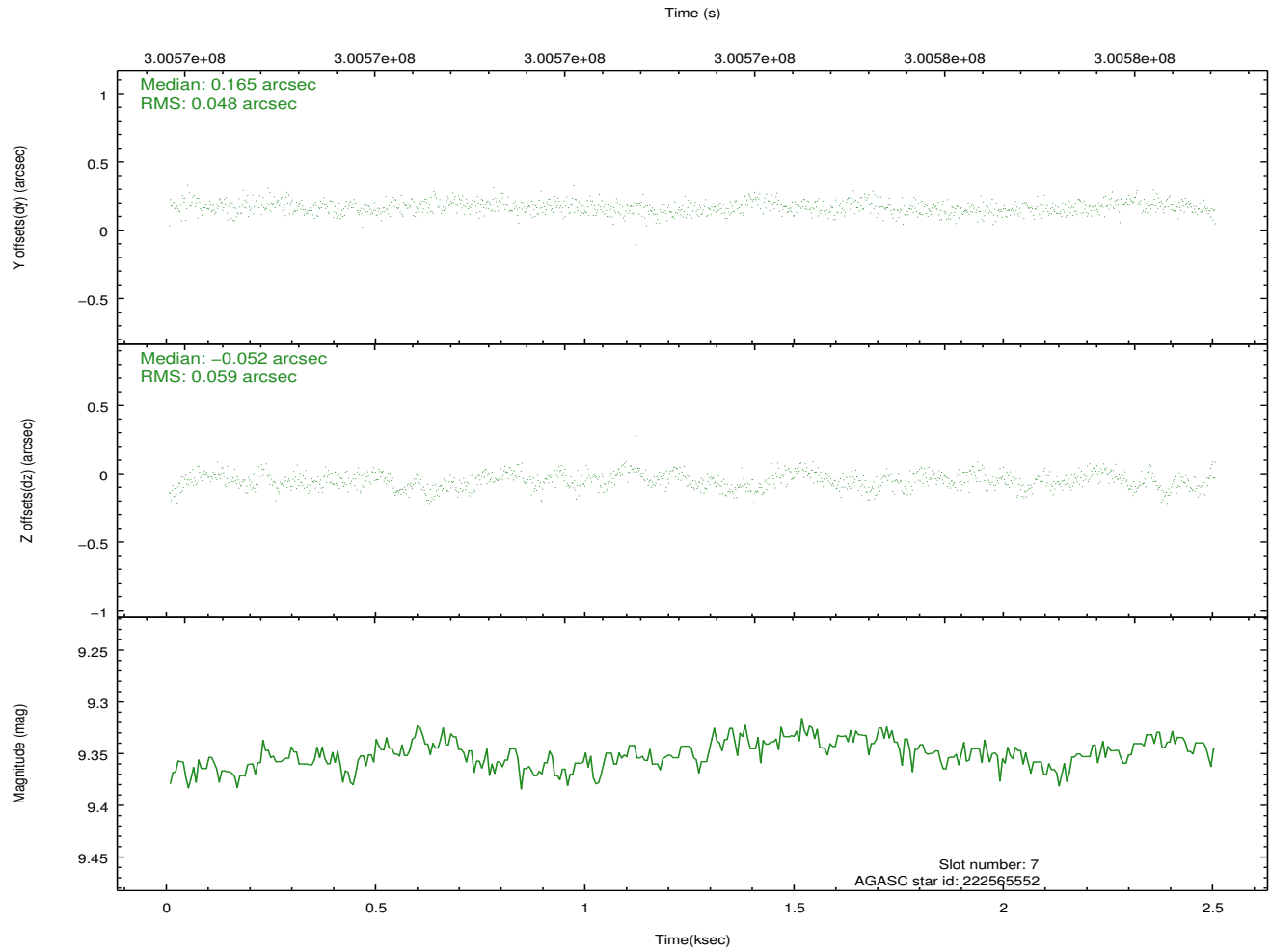
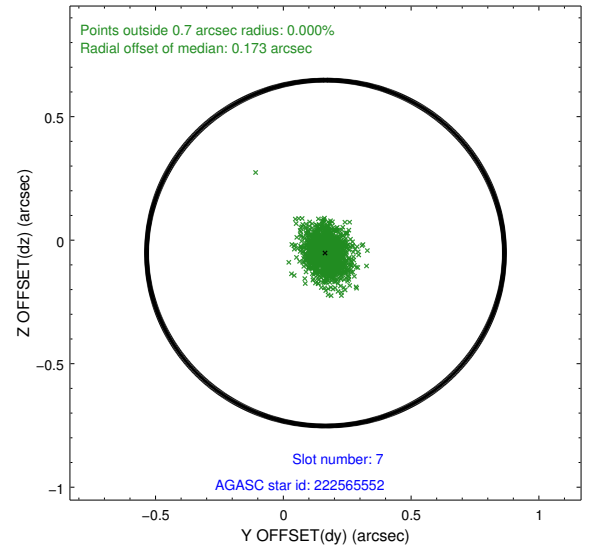
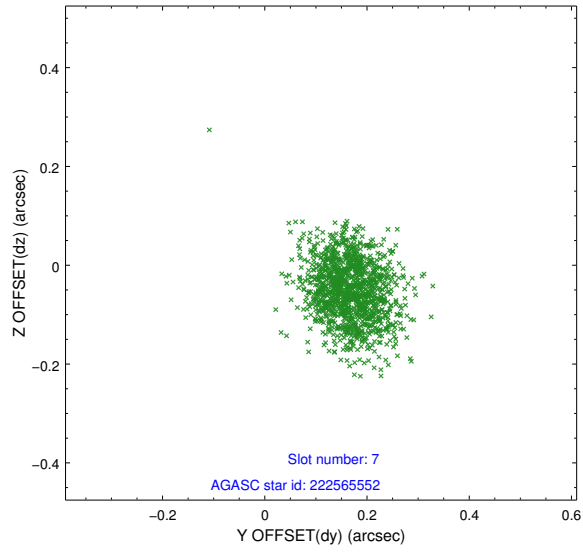
2.4.3 Slot 5



2.4.4 Slot 6

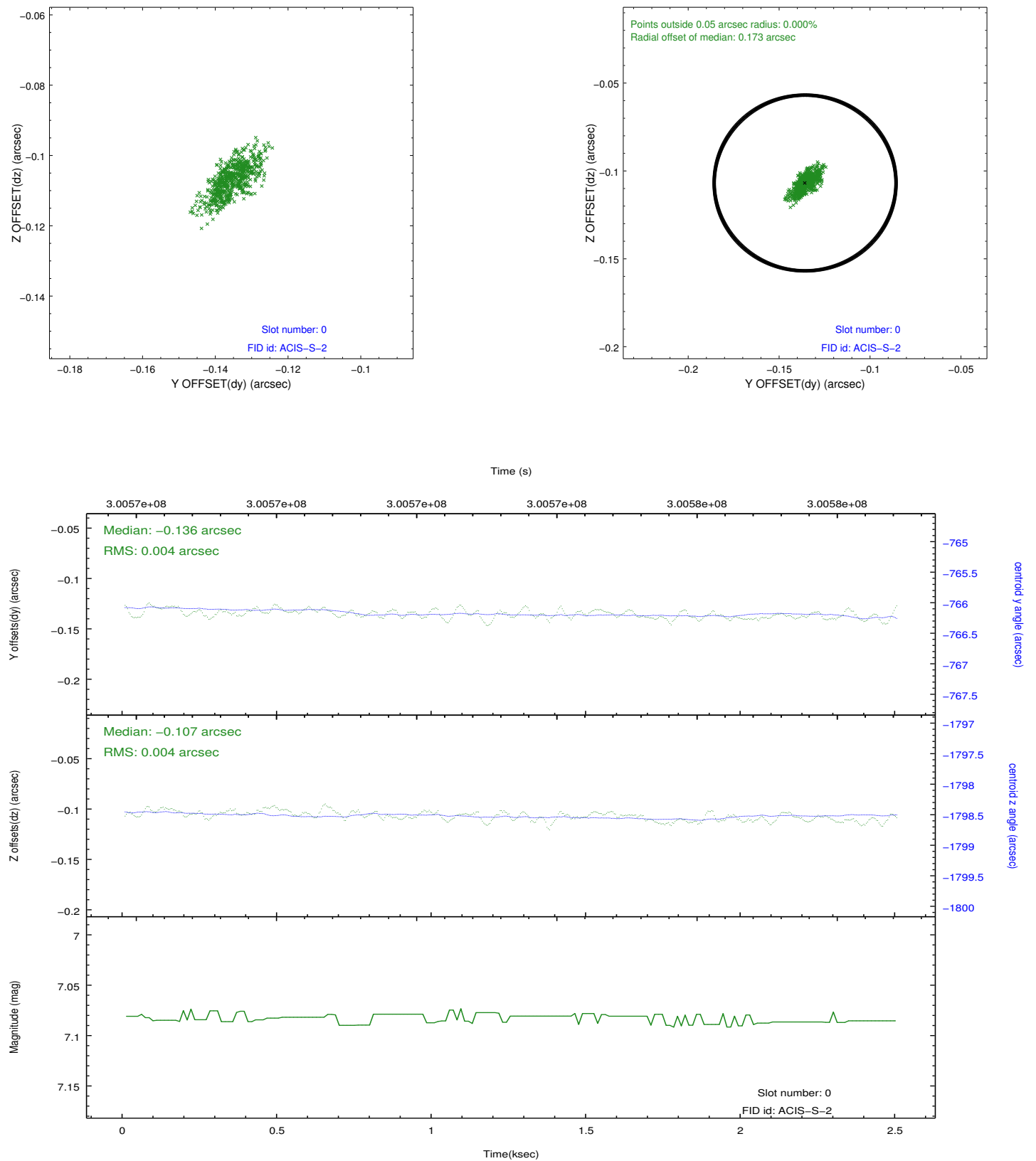


2.4.5 Slot 7

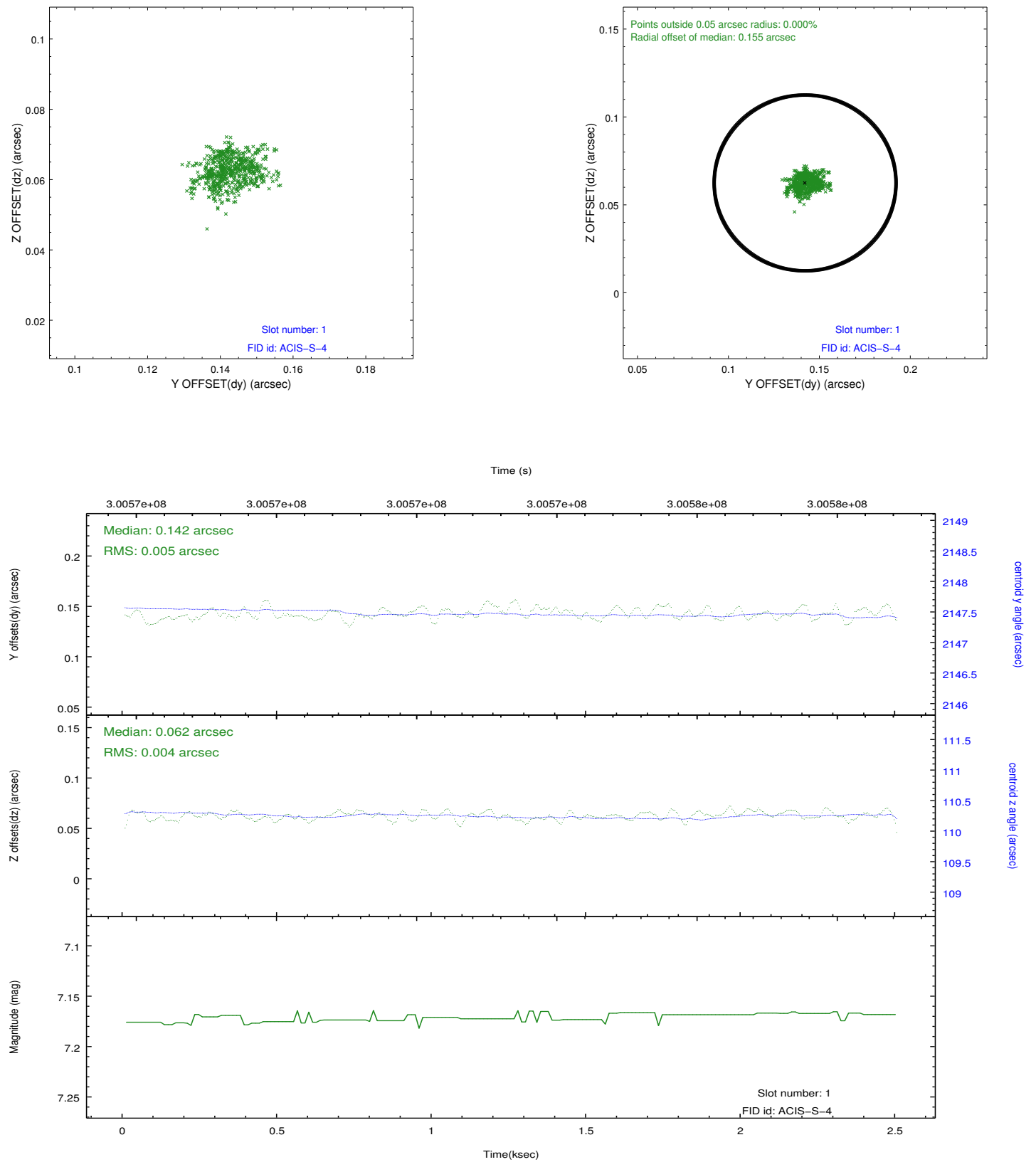


2.5 FID Slots

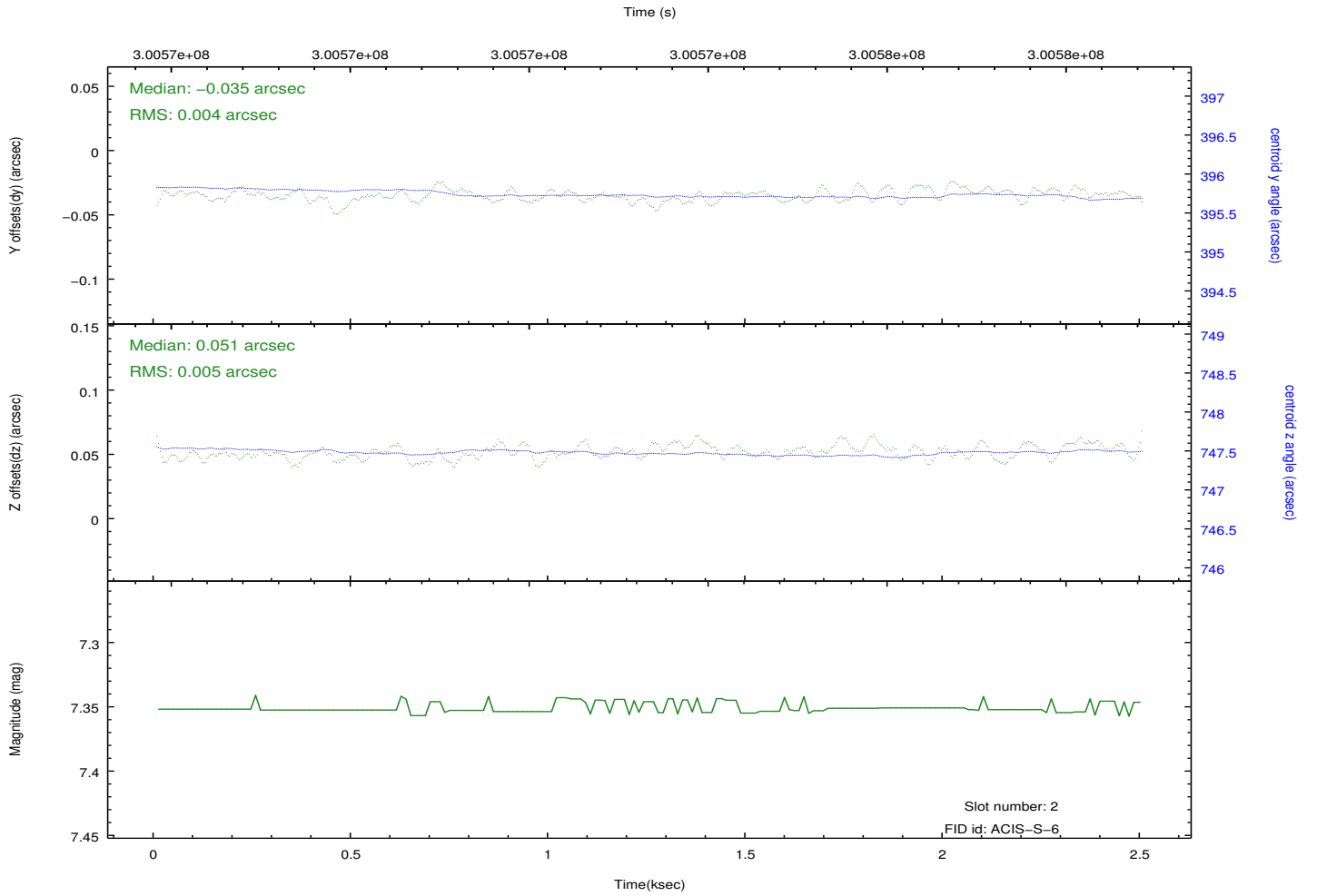
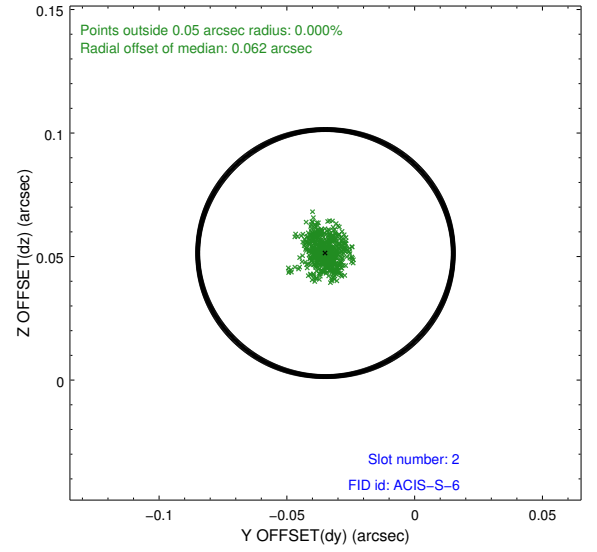
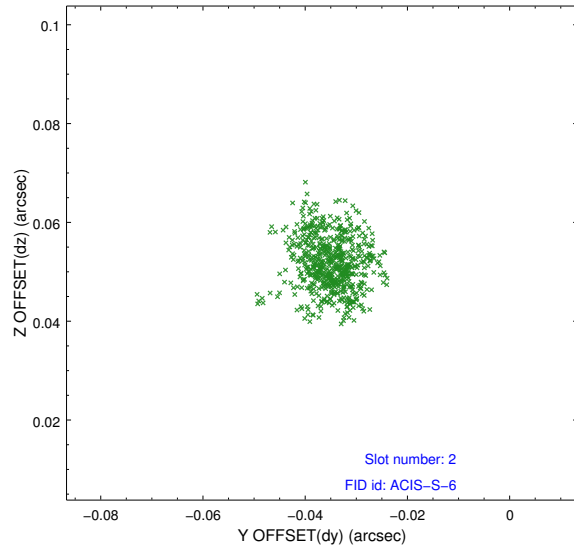
2.5.1 Slot 0



2.5.2 Slot 1

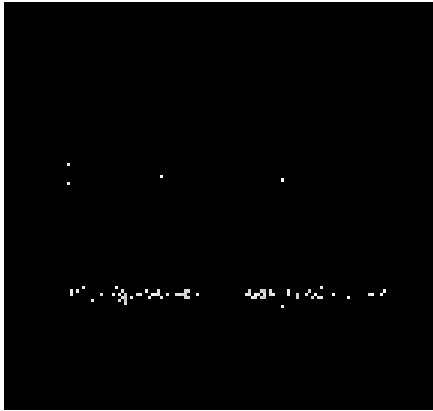


2.5.3 Slot 2

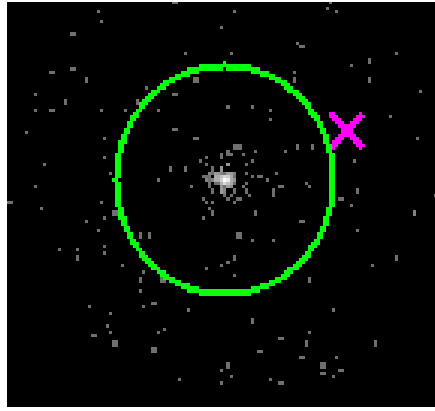


3 Gratings

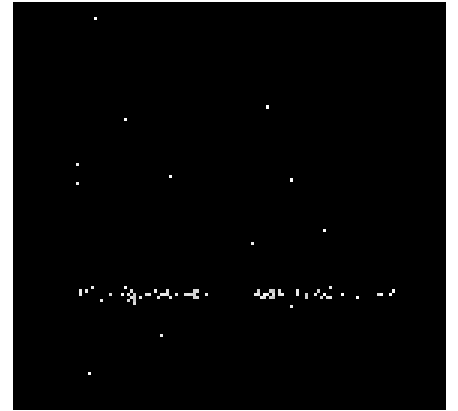
3.1 HEG Arm



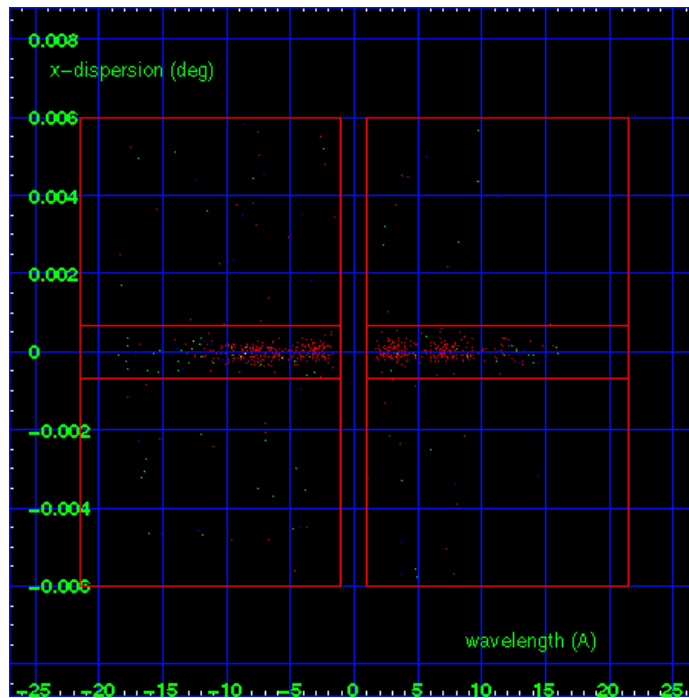
HEG Order Sort 123



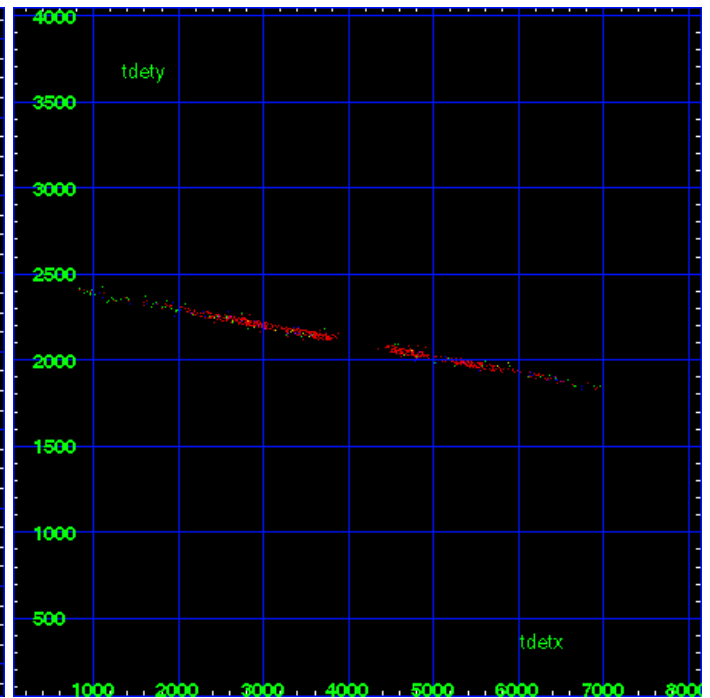
HEG Zero Order



HEG Order Sort ALL

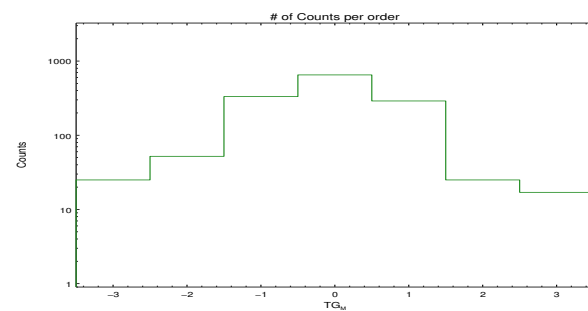


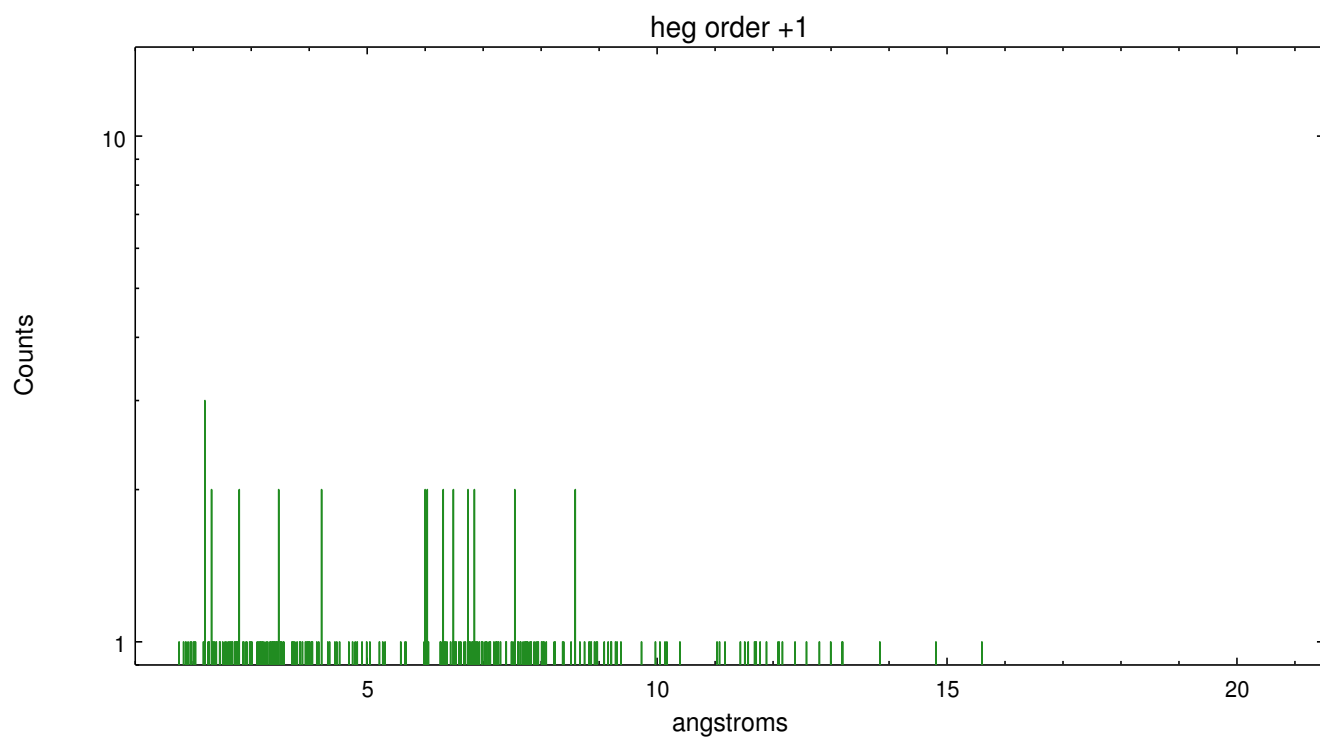
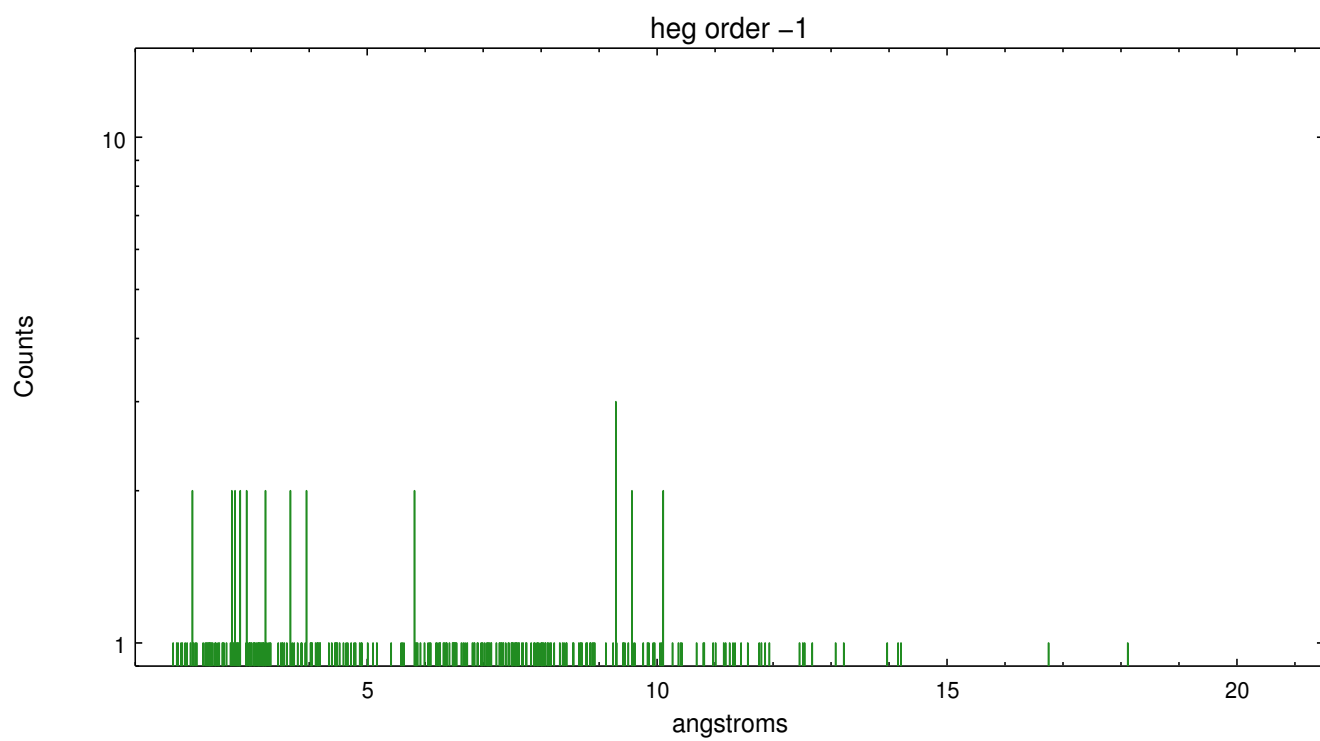
Spot Image HEG



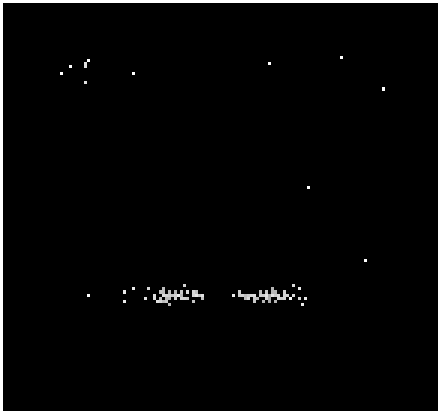
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	25	52	332	651	290	25	17

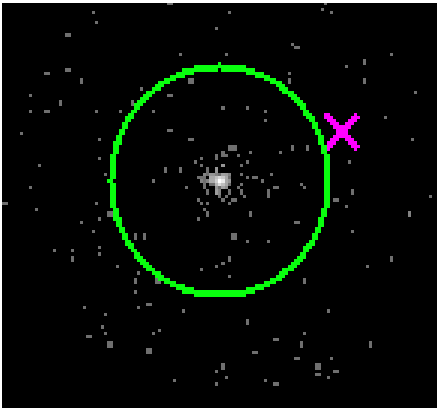




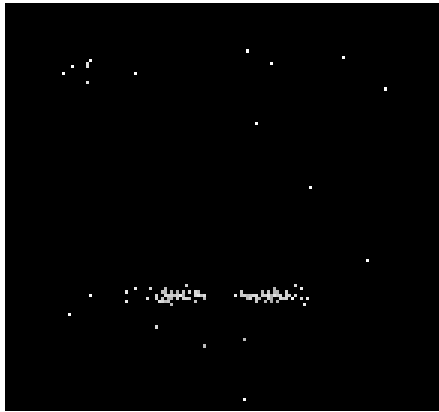
3.2 MEG Arm



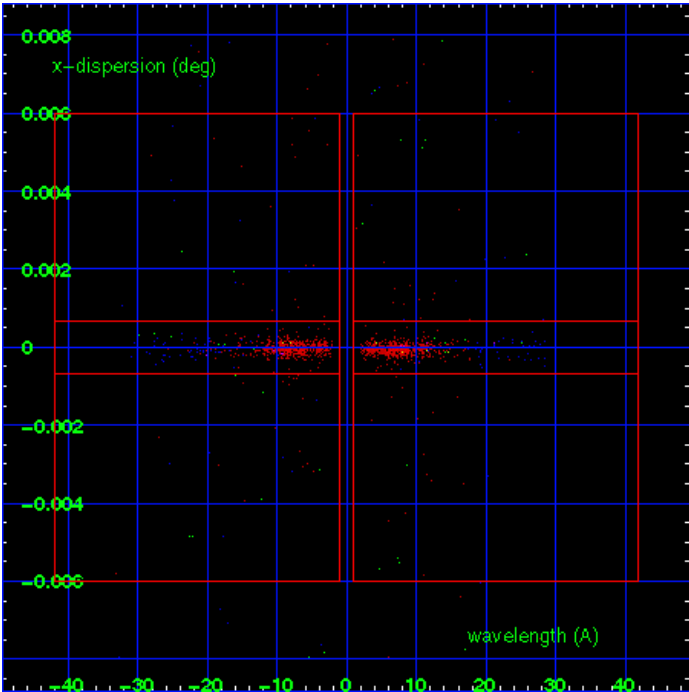
MEG Order Sort 123



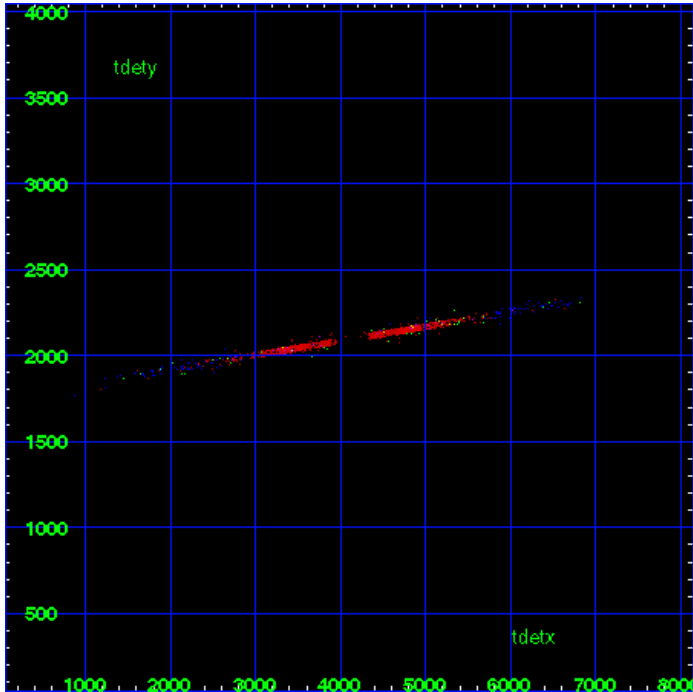
MEG Zero Order



MEG Order Sort ALL

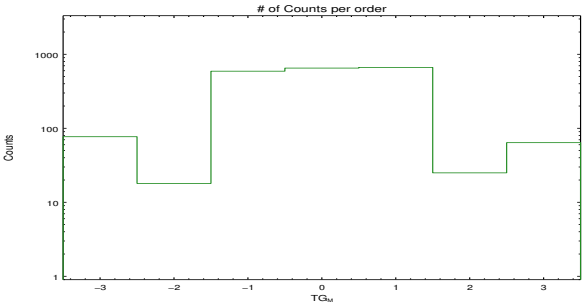


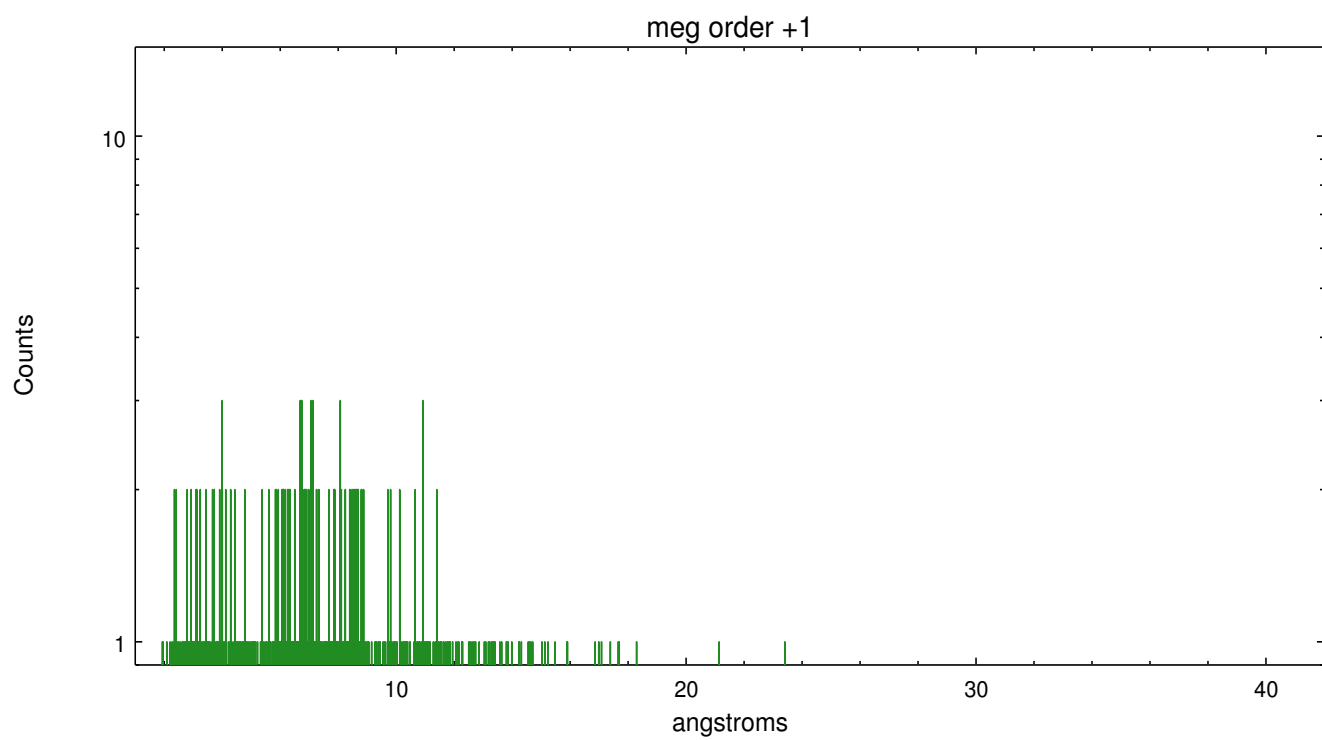
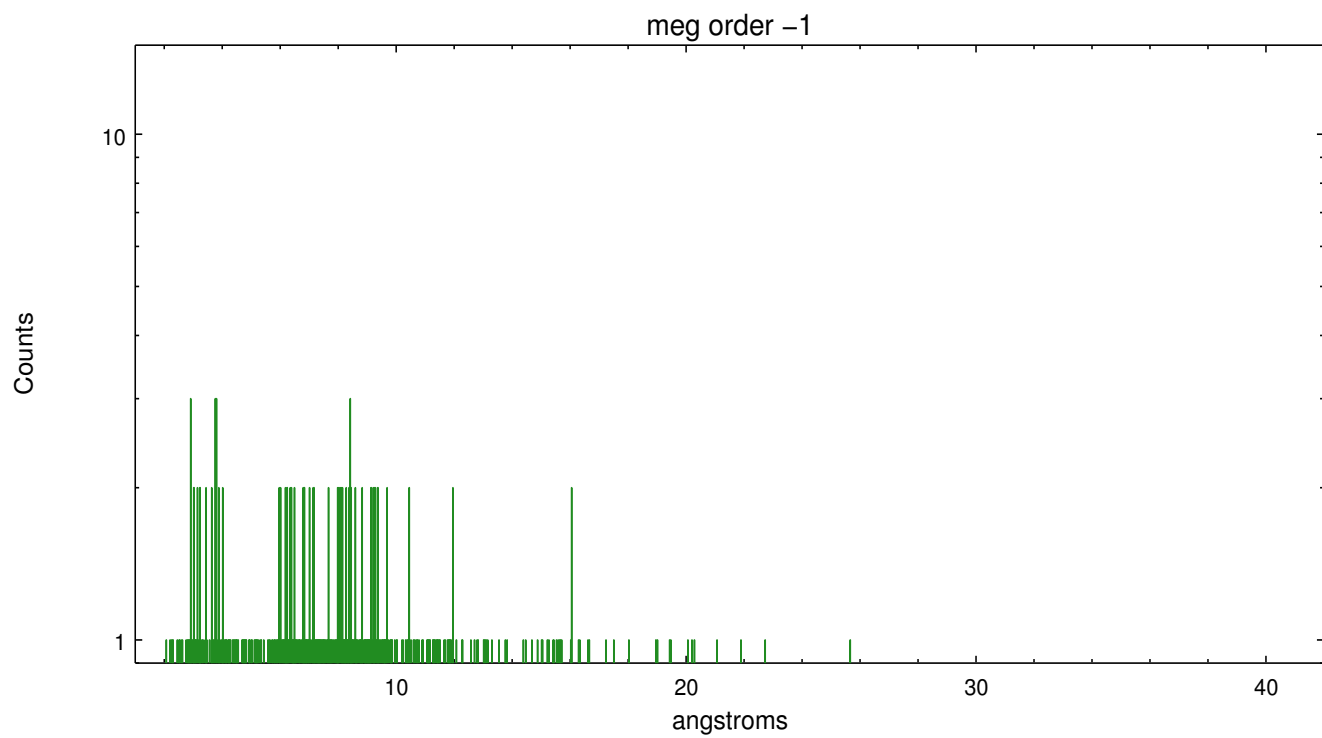
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	77	18	591	651	665	25	64





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.04.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.0425

A.2 Comments