

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 9967 - L2 Version 2
Chandra X-Ray Center

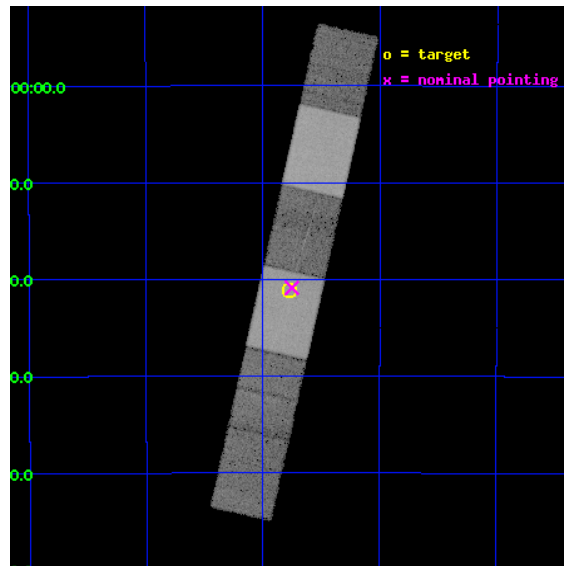
L2 Processing Date : Jun 14 2012

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

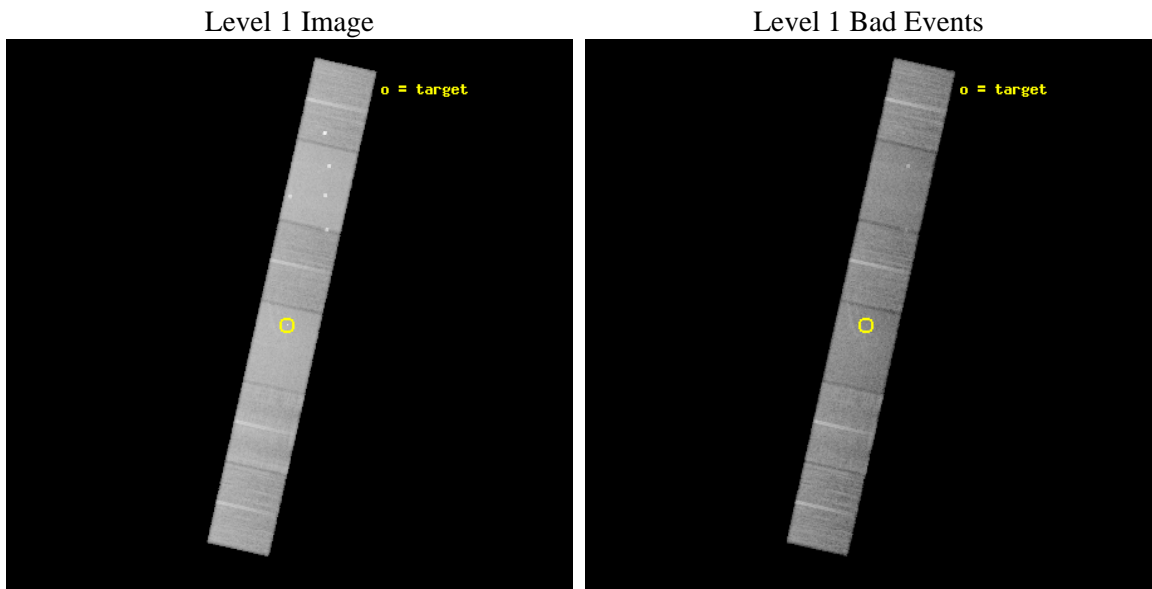
seq_num	300253	Sequence number
obs_id	9967	Observation id
title	CP Puppis, a template for the secular evolution of novae	Proposal
observer	Dr Marina Orio	Principal investigator
object	CP Puppis	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	122.942083	Observer's specified target RA [deg]
dec_targ	-35.351389	Observer's specified target Dec [deg]
ra_nom	122.93794061551	Nominal RA [deg]
dec_nom	-35.347932165859	Nominal Dec [deg]
roll_nom	102.6542546076	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20142.5	Sum of GTIs [s]
livetime	19817.181154173	Livetime [s]
ontime4	20142.5	Sum of GTIs [s]
ontime5	20142.5	Sum of GTIs [s]
ontime6	20127.254058719	Sum of GTIs [s]
ontime7	20142.5	Sum of GTIs [s]
ontime8	20139.959009767	Sum of GTIs [s]
ontime9	20142.5	Sum of GTIs [s]
l2events	277486	Number of level 2 events



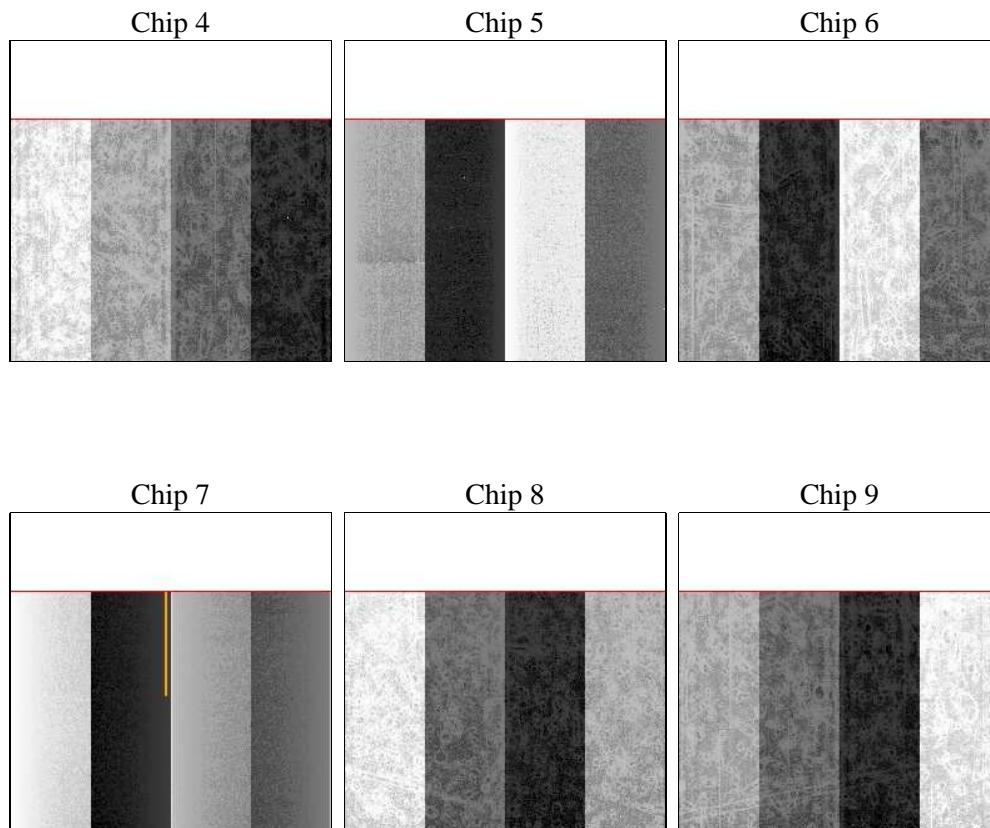
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	20142.5	Sum of GTIs [s]
caldbver	4.4.10	 	ontime4	20142.5	Sum of GTIs [s]
date	2012-06-14T12:47:57	Date and time of file creation	ontime5	20142.5	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	20127.254058719	Sum of GTIs [s]
			ontime7	20142.5	Sum of GTIs [s]
			ontime8	20139.959009767	Sum of GTIs [s]
			ontime9	20142.5	Sum of GTIs [s]
			l1events	1196158	Number of level 1 events

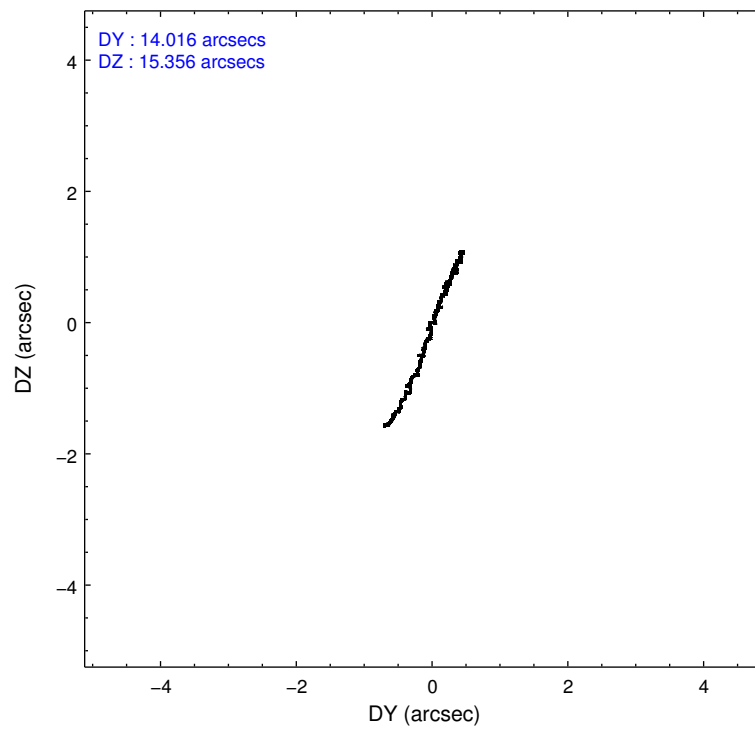
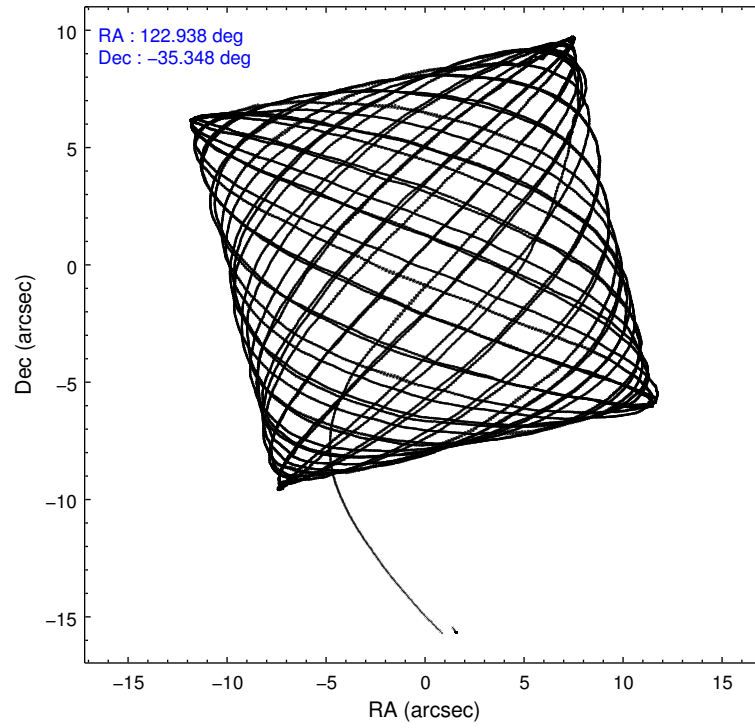
2.1.4 Events

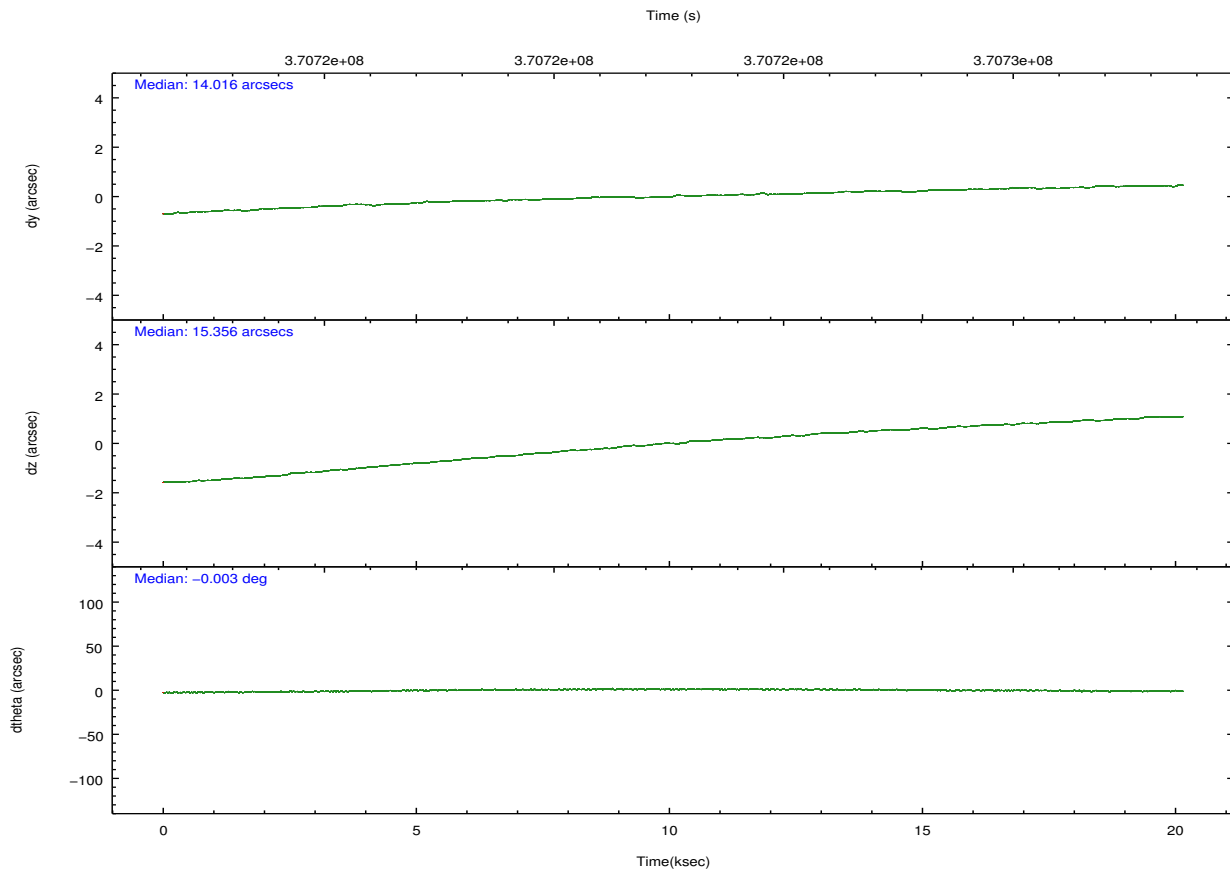
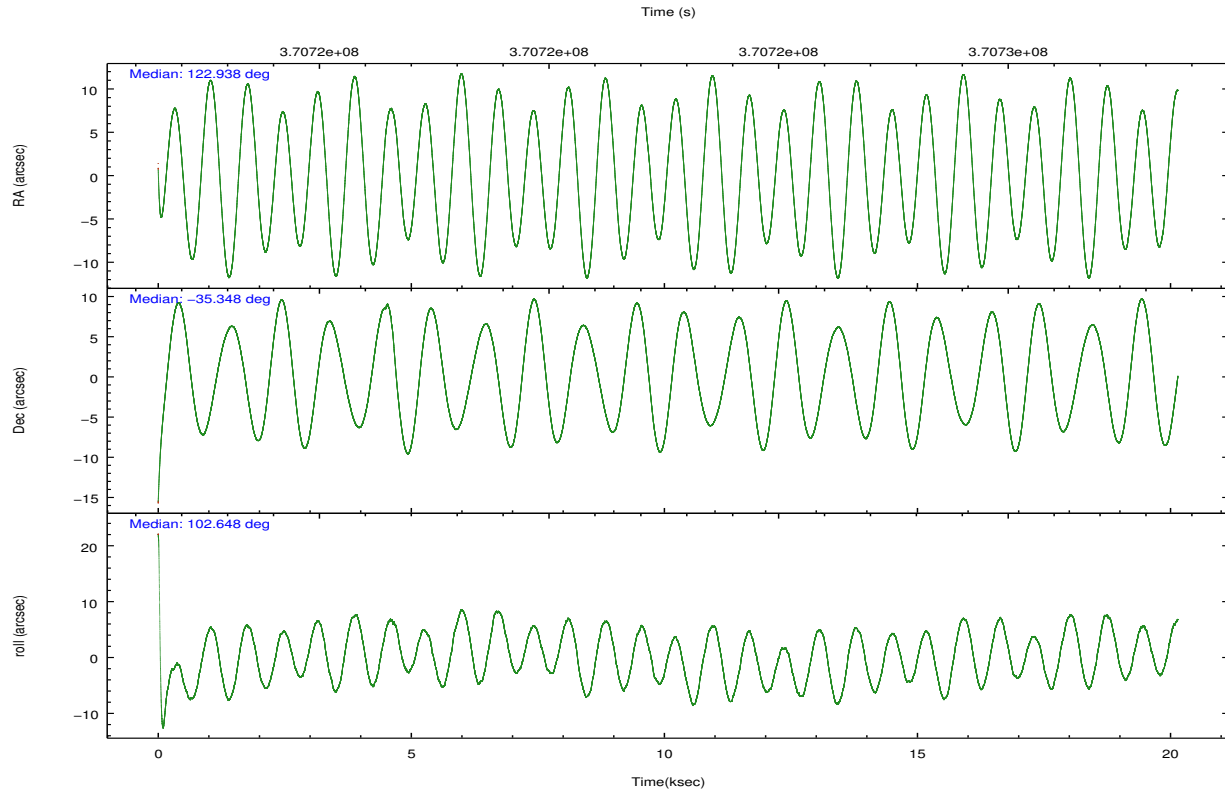
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	184690	255843	160081	228138	206374	161032	grade 0 events	14479	12214	7945	8282	15276	8375
rejected events	158081	136230	139979	131719	157054	140189		7%	4%	4%	3%	7%	5%
rejected %	85%	53%	87%	57%	76%	87%	grade 1 events	181	487	92	291	154	87
								0%	0%	0%	0%	0%	0%
							grade 2 events	4567	35510	4253	20135	11362	4214
								2%	13%	2%	8%	5%	2%
							grade 3 events	2169	6705	1961	8342	5126	2139
								1%	2%	1%	3%	2%	1%
							grade 4 events	2002	4550	1942	8147	4830	2077
								1%	1%	1%	3%	2%	1%
							grade 5 events	7387	19061	7483	20944	10229	8392
								3%	7%	4%	9%	4%	5%
							grade 6 events	3456	60936	4055	51752	12897	4081
								1%	23%	2%	22%	6%	2%
							grade 7 events	150449	116380	132350	110245	146500	131667
								81%	45%	82%	48%	70%	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	122.960987	122.937940615509	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	-35.367775	-35.34793216585925	Subarray start row	1	1
[deg] Pointing Roll	102.510949	102.6542546075988	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)	370712658.184000	370711536.3844			
Observation start date	2009-09-30T15:43:12	2009-09-30T15:25:36			
[s] Observation end time (MET)	370732658.184000	370733323.27299			
Observation end date	2009-09-30T21:16:32	2009-09-30T21:28:43			
Read mode	TIMED	TIMED			

2.3 Aspect



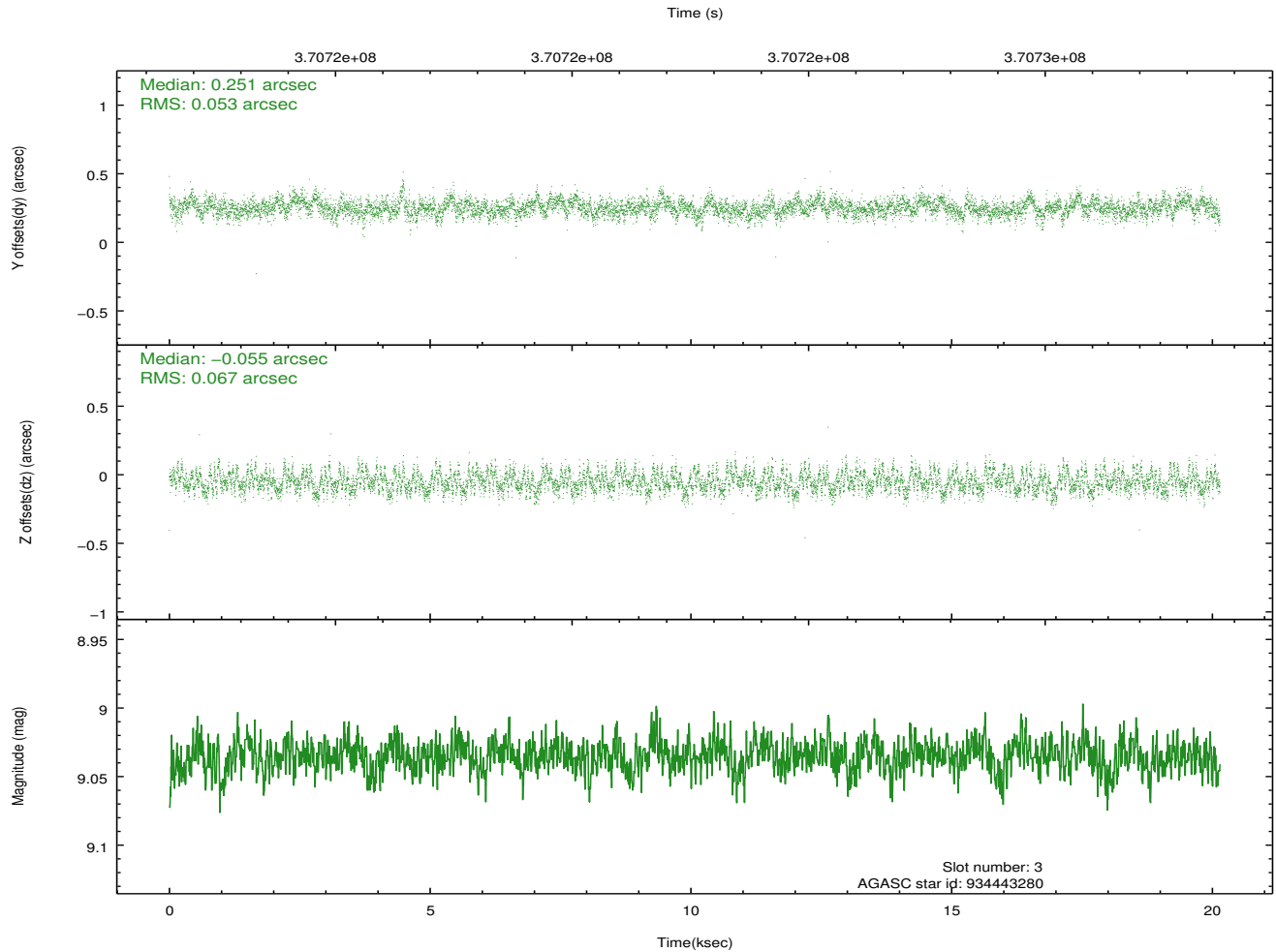
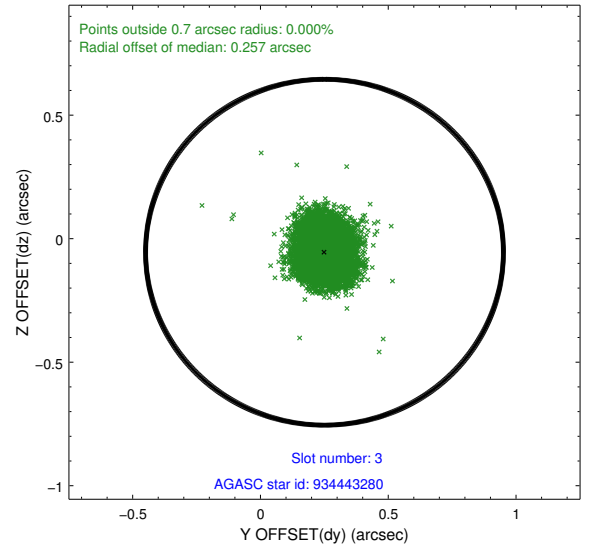
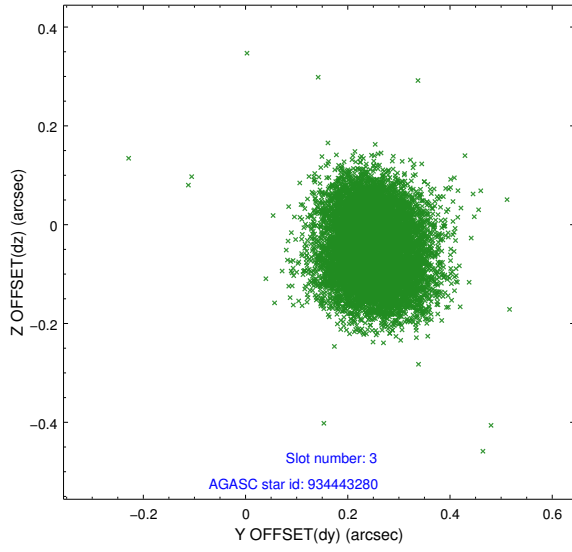


Slot Statistics

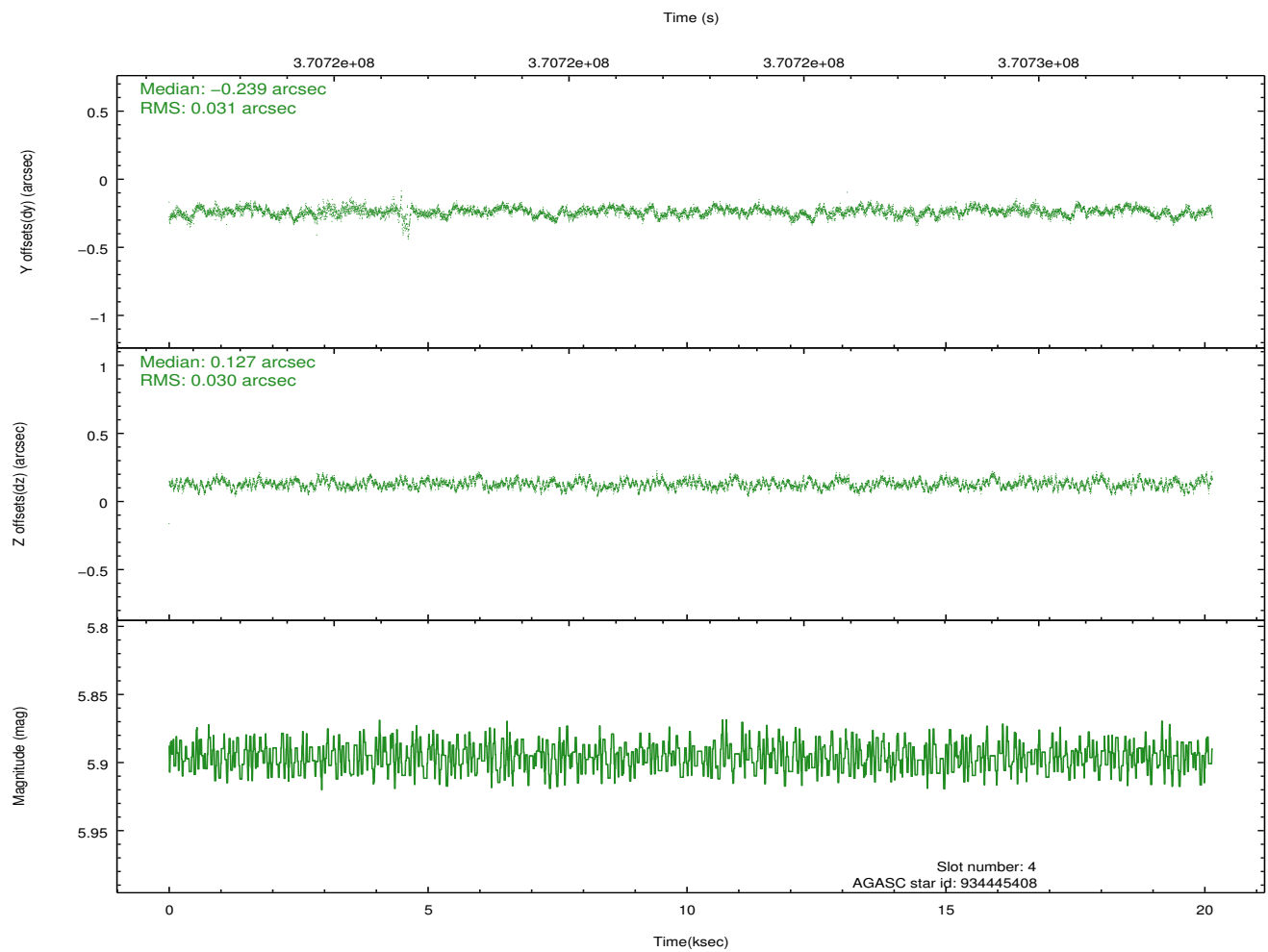
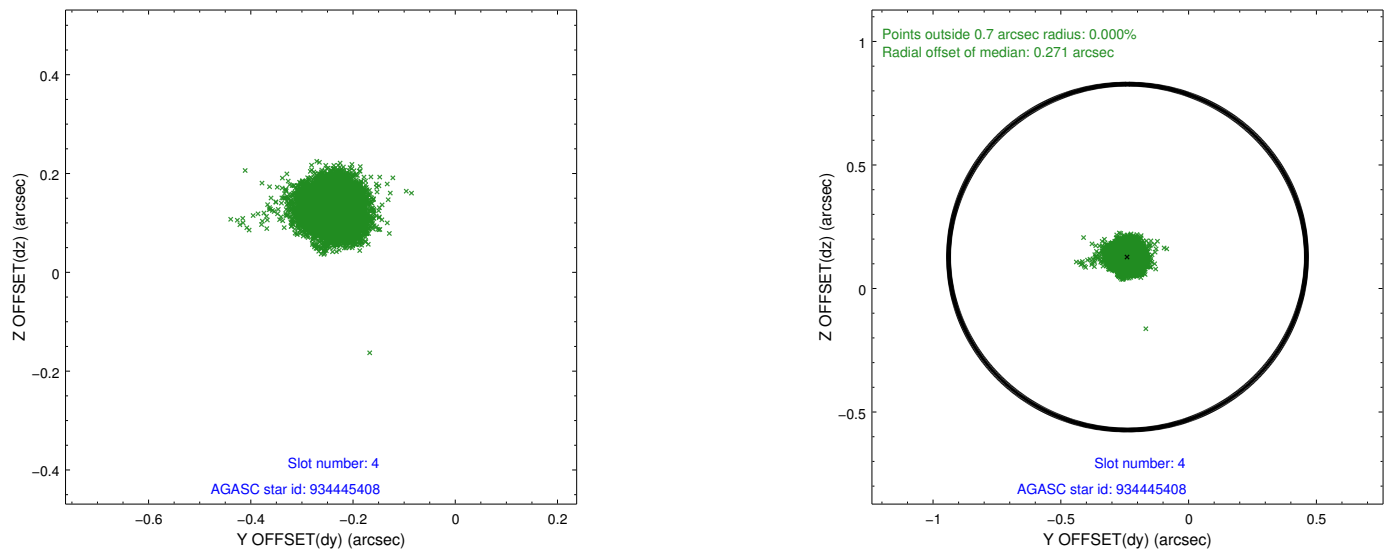
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.92	4915	-0.086	-0.090	0.022	0.053	0.000000	0.000000	-766.83	-1798.79
1	FID	ACIS-S-4	6.99	4915	0.203	0.064	0.020	0.036	0.000000	0.000000	2146.67	109.60
2	FID	ACIS-S-5	7.04	4914	-0.150	0.030	0.015	0.039	0.000000	0.000000	-1819.48	103.47
3	GUIDE	934443280	9.04	9825	0.251	-0.055	0.091	0.145	123.348771	-35.369207	-252.99	-1109.48
4	GUIDE	934445408	5.90	9829	-0.239	0.127	0.046	0.073	123.155863	-35.146509	652.96	-732.16
5	GUIDE	934448384	9.37	9817	0.106	0.087	0.082	0.135	123.060299	-35.434250	-296.36	-232.32
6	GUIDE	934449128	9.14	9821	0.023	-0.104	0.093	0.153	122.610732	-35.593771	-573.76	1177.66
7	GUIDE	934449184	6.92	9827	-0.142	-0.061	0.064	0.101	123.461425	-35.208271	238.37	-1560.32

2.4 Star Slots

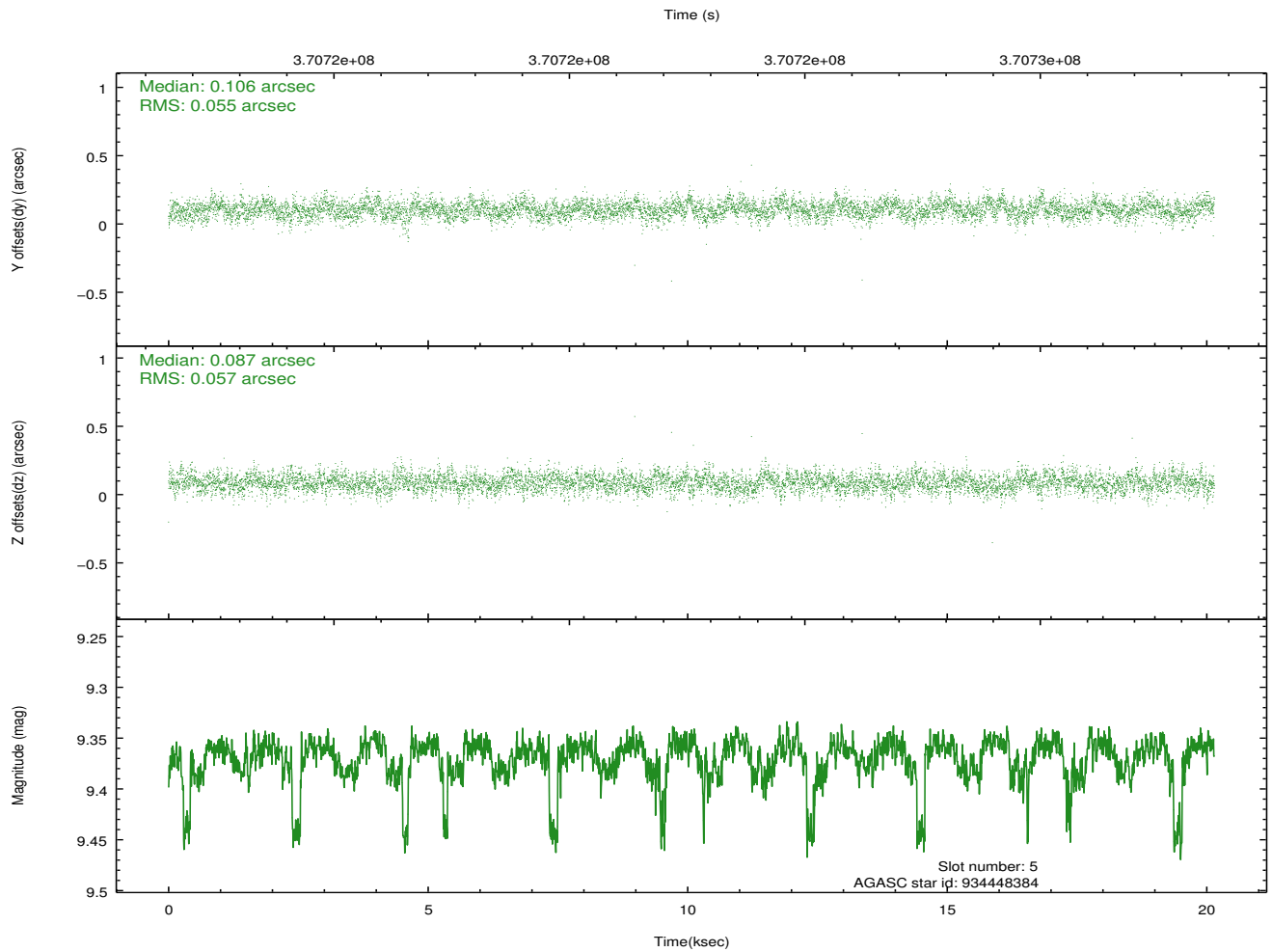
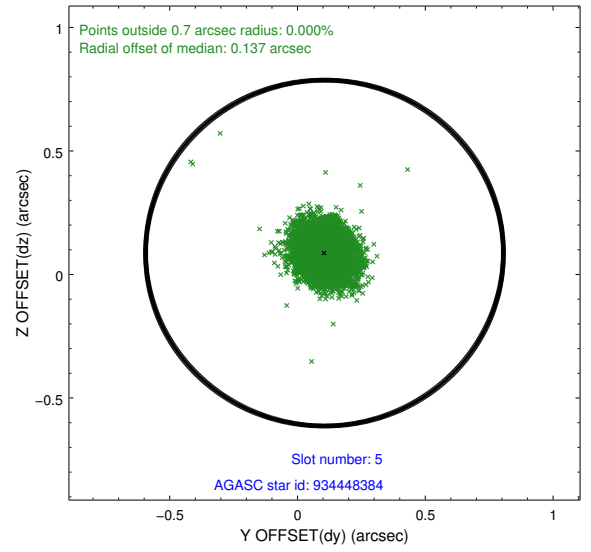
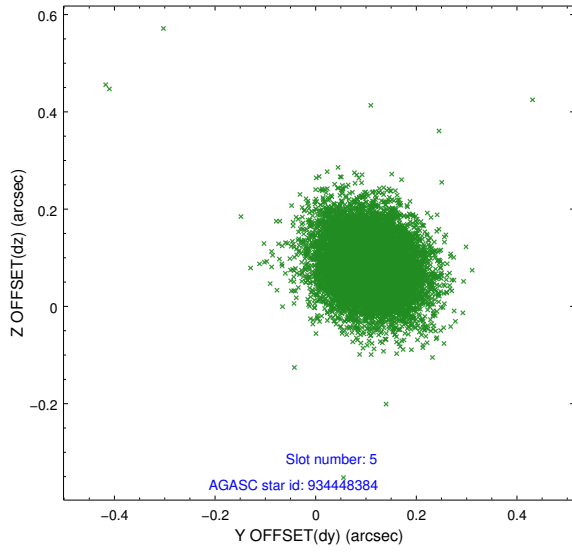
2.4.1 Slot 3



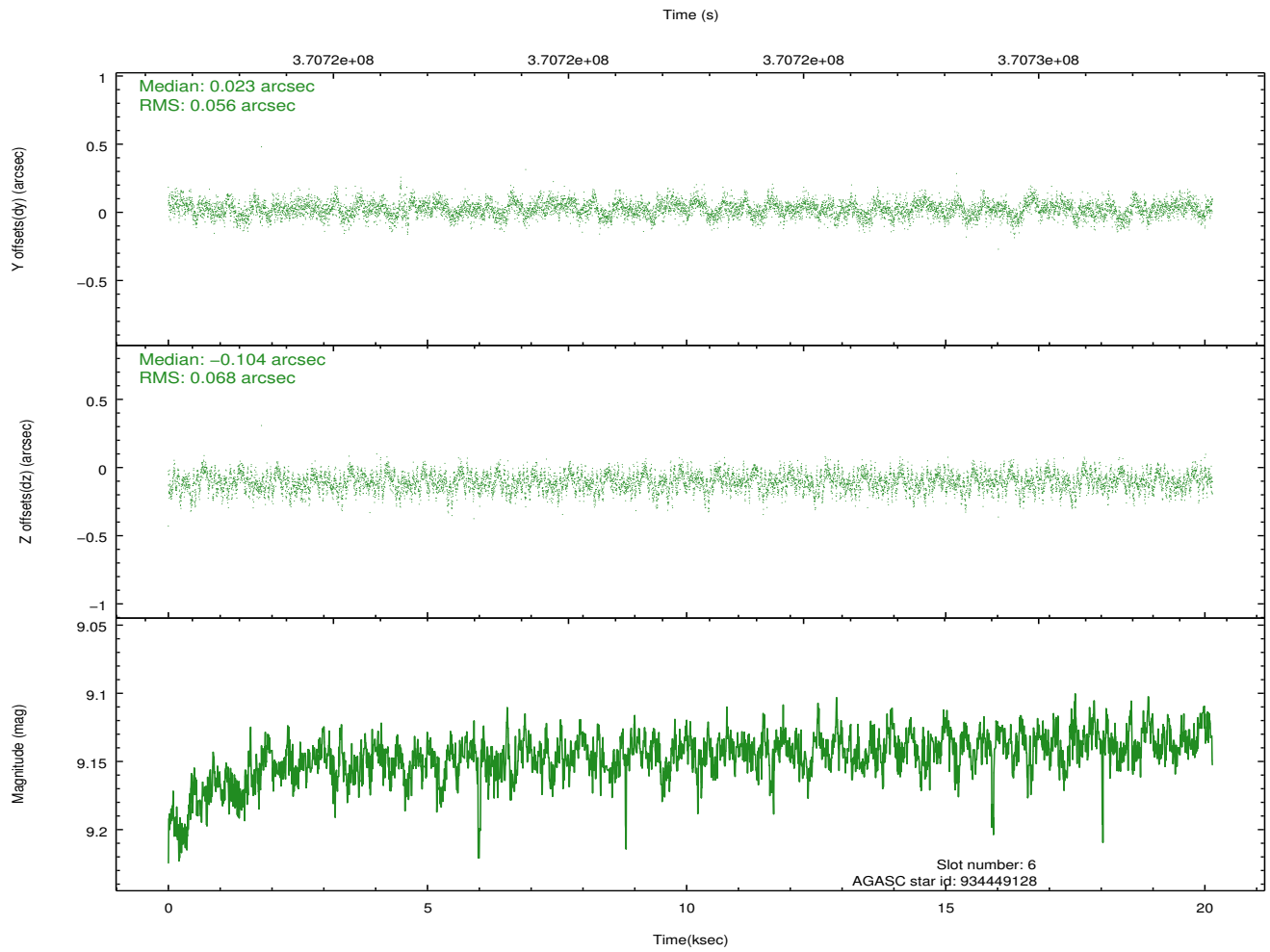
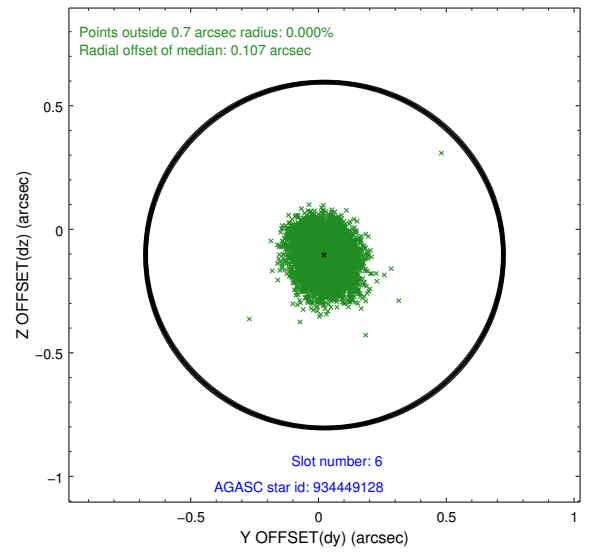
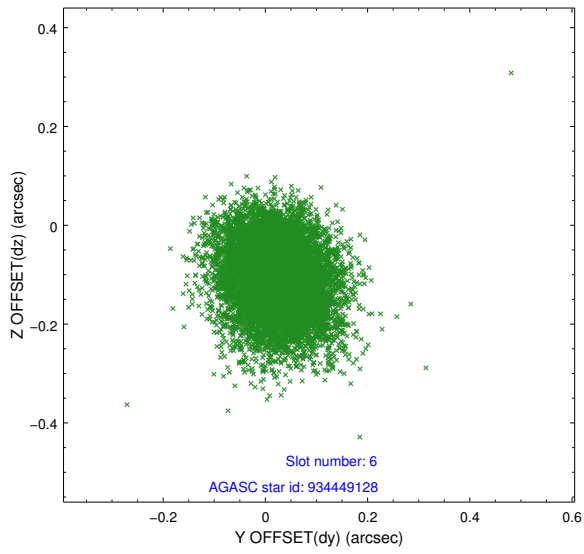
2.4.2 Slot 4



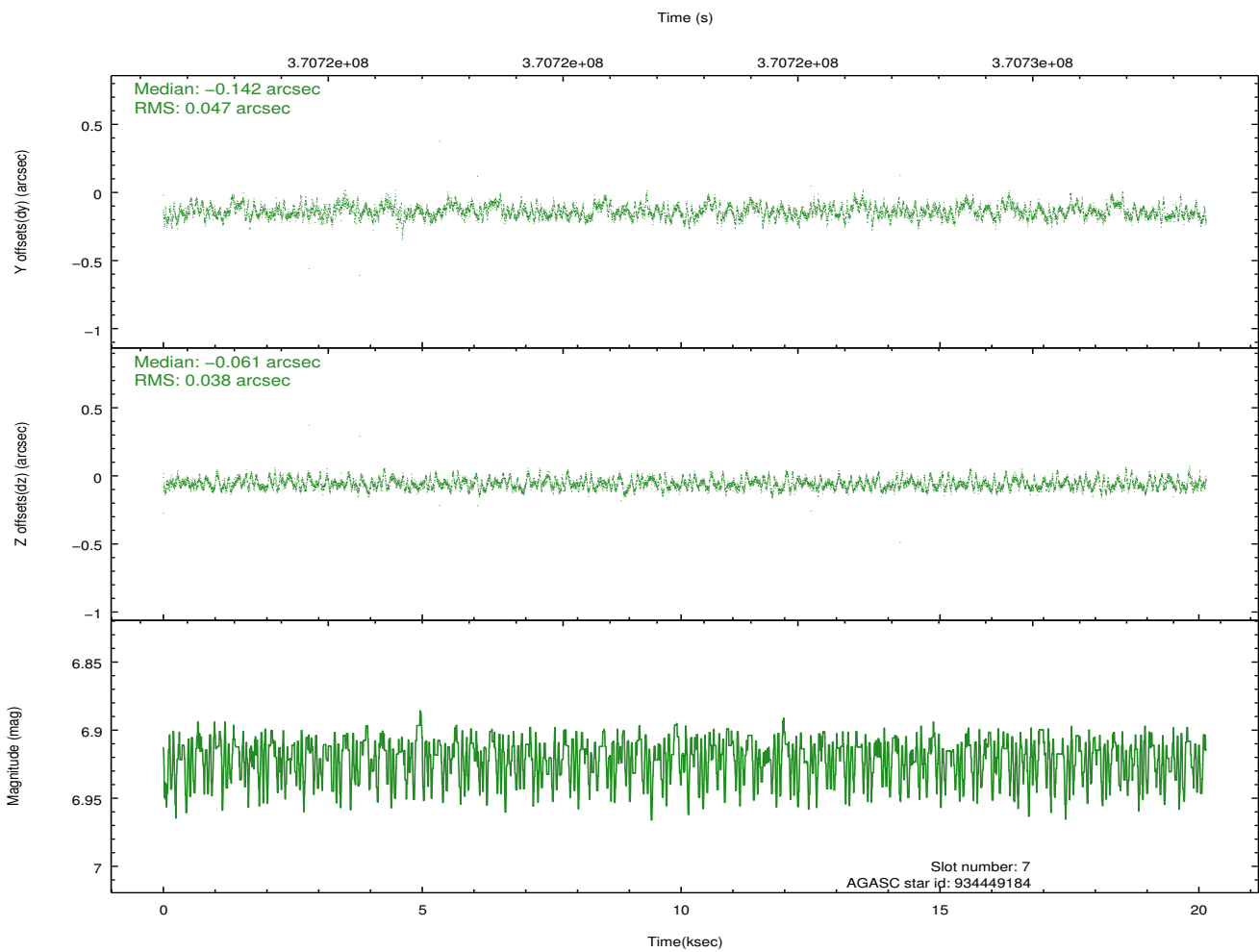
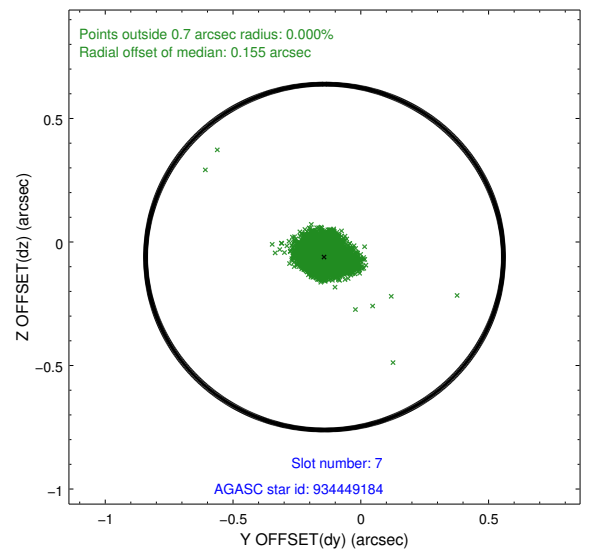
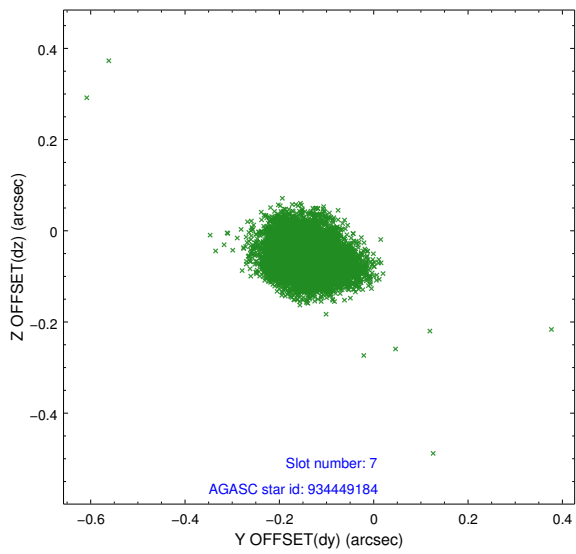
2.4.3 Slot 5



2.4.4 Slot 6

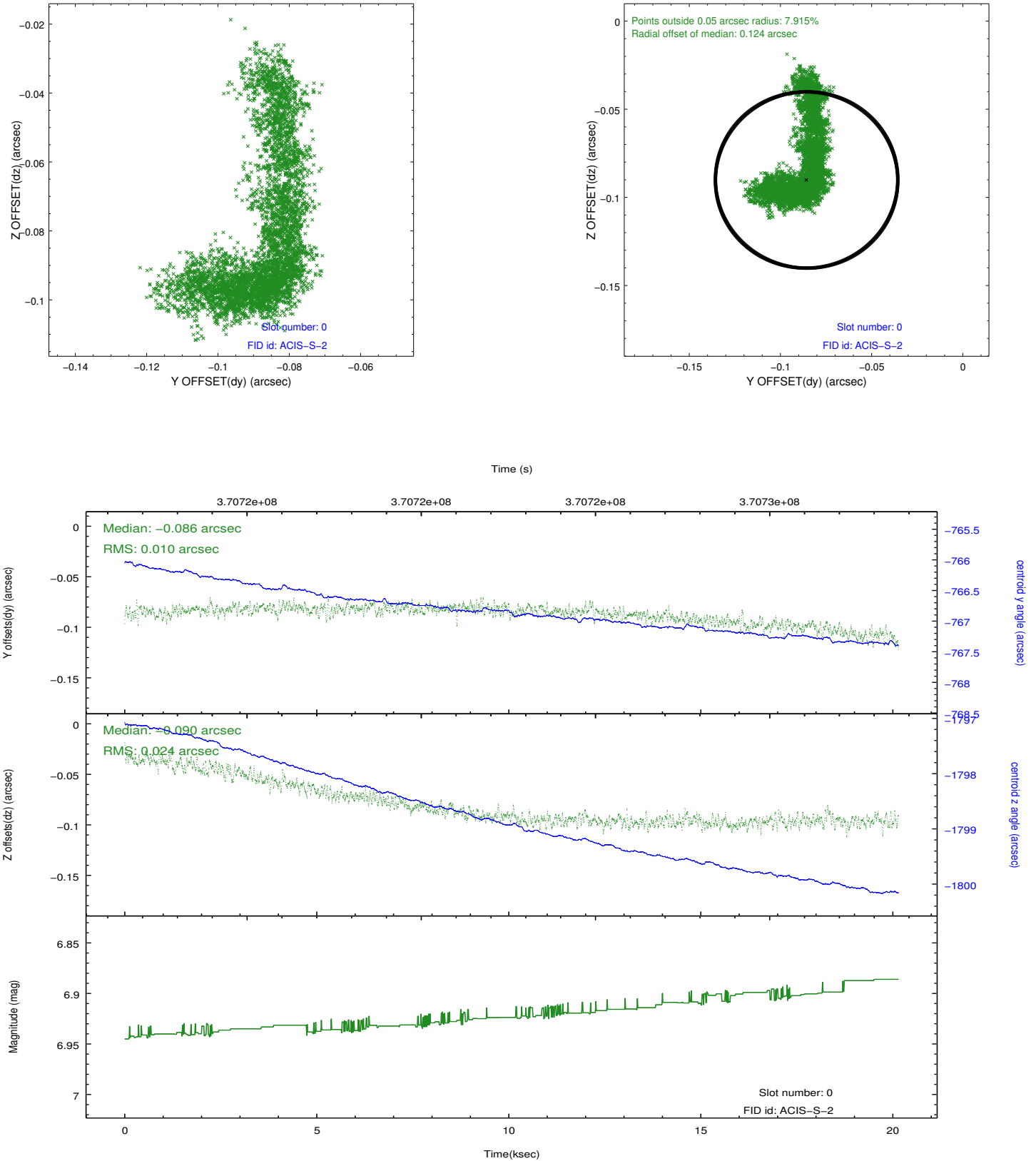


2.4.5 Slot 7

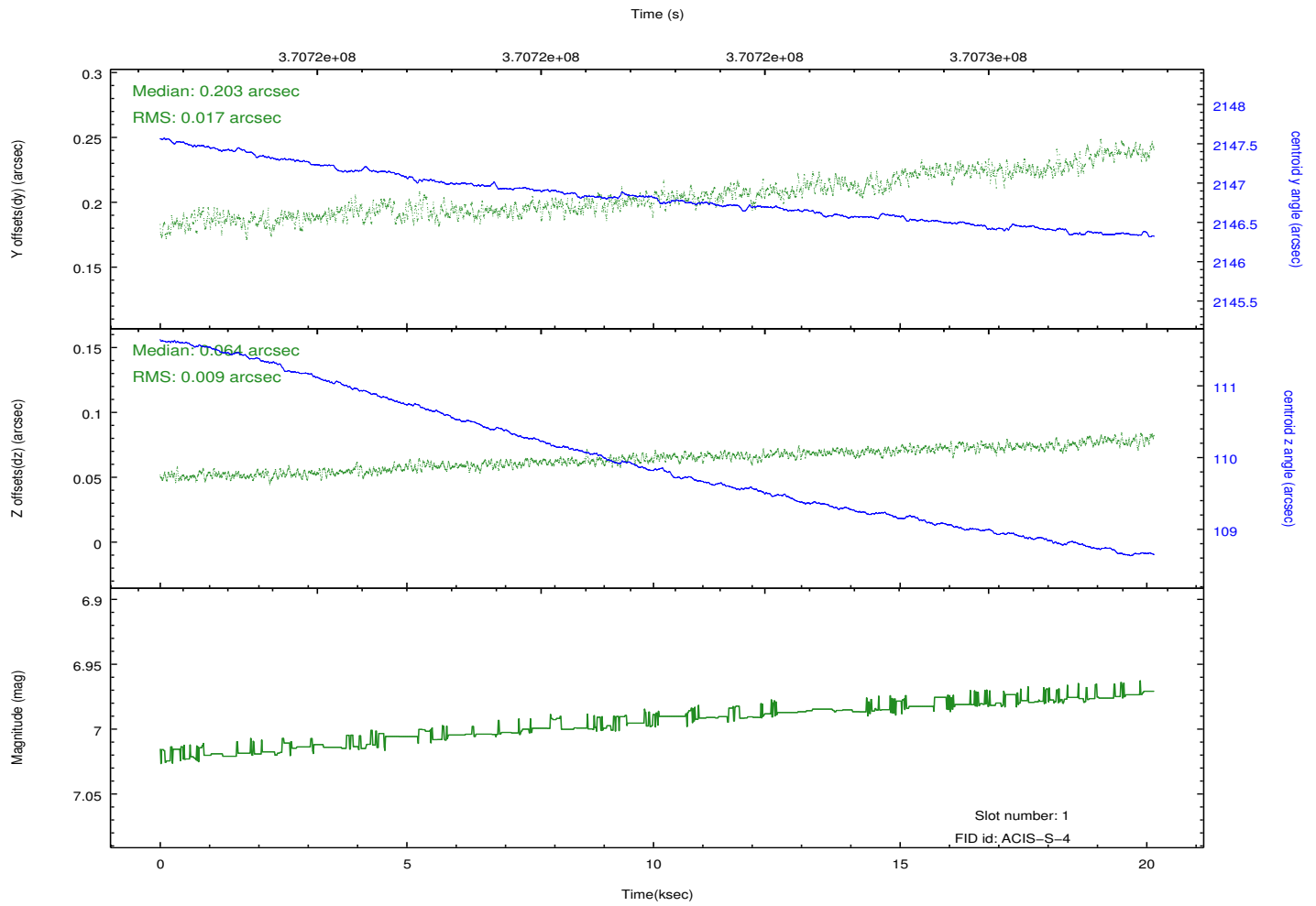
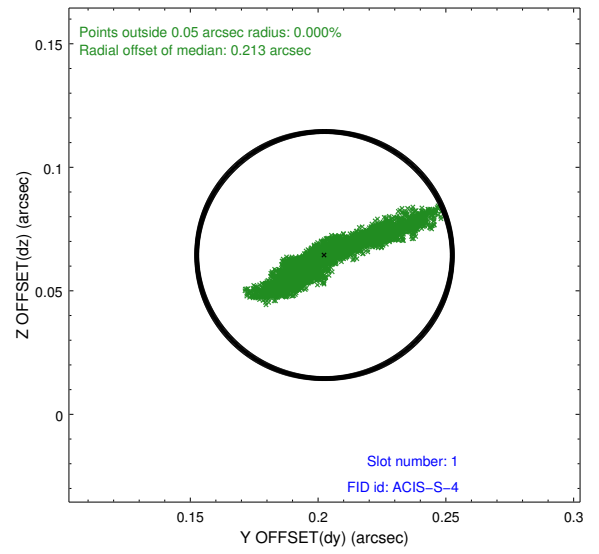
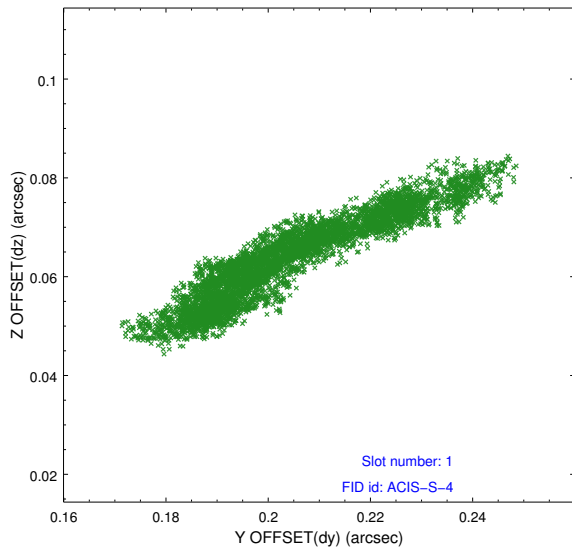


2.5 FID Slots

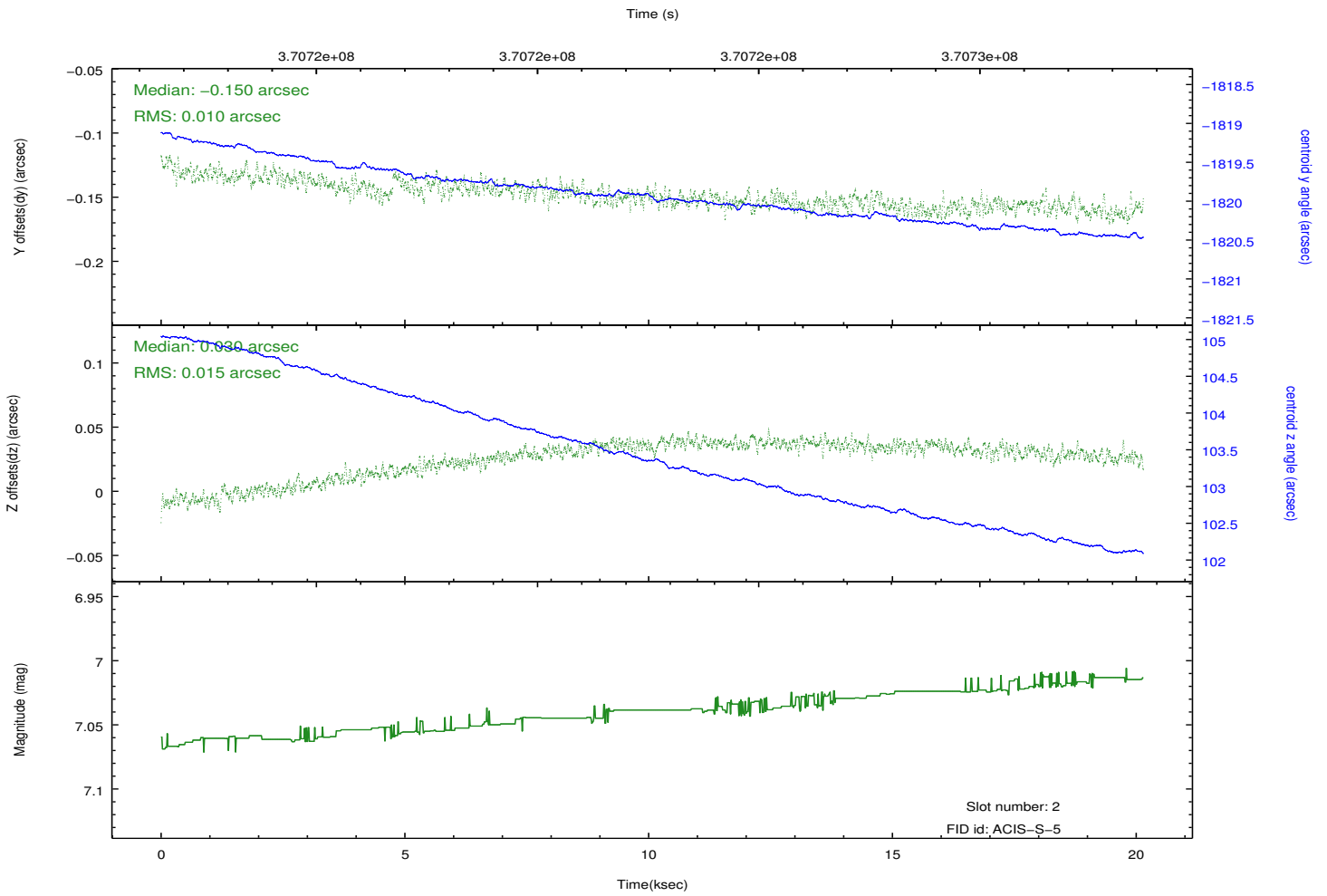
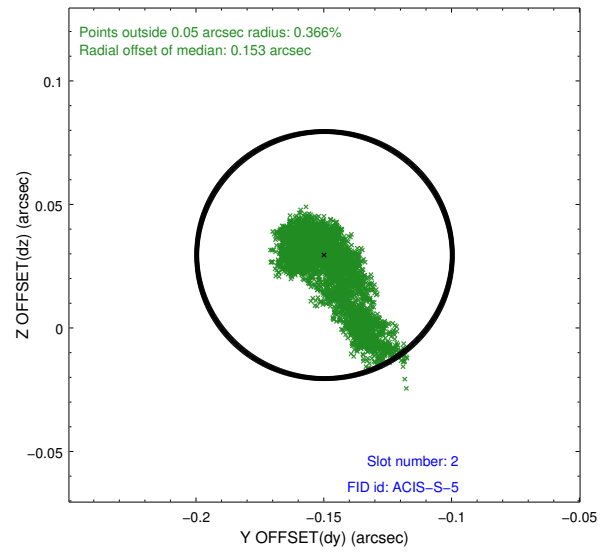
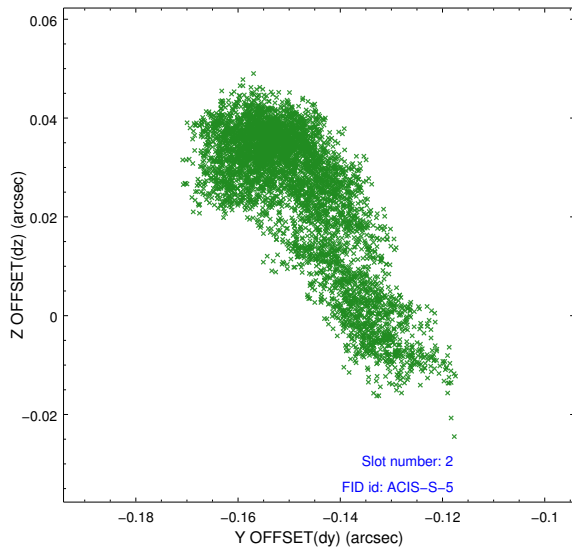
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

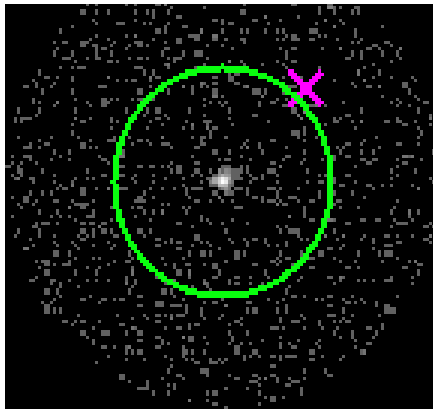


3 Gratings

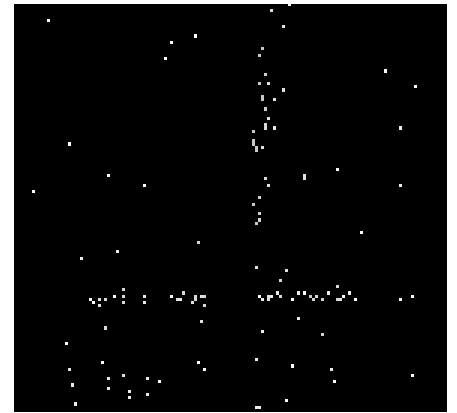
3.1 HEG Arm



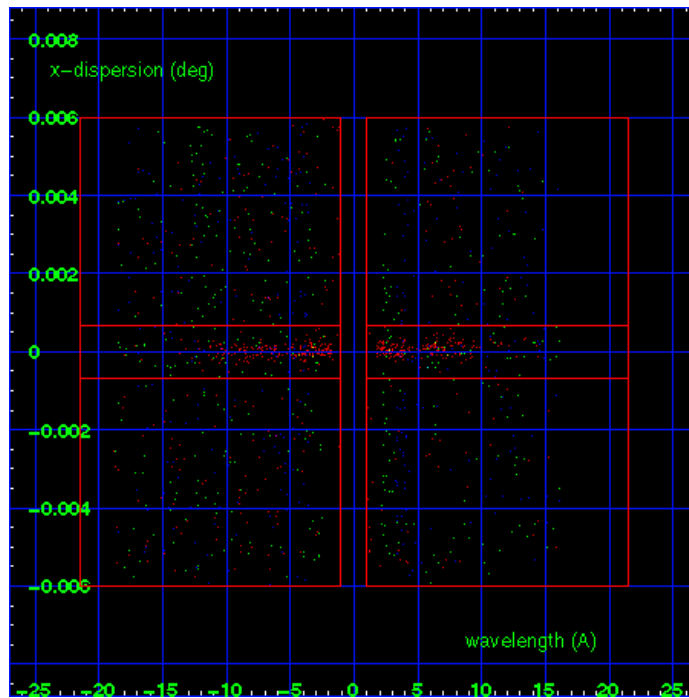
HEG Order Sort 123



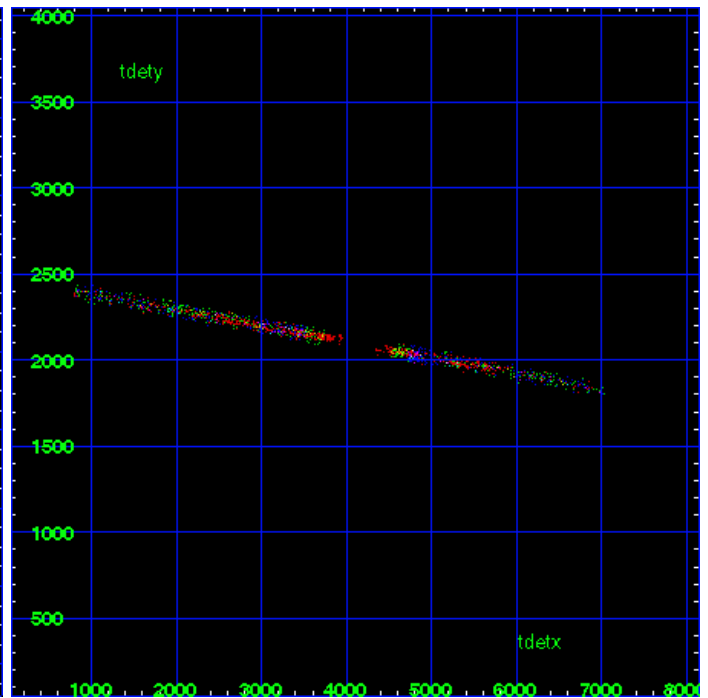
HEG Zero Order



HEG Order Sort ALL

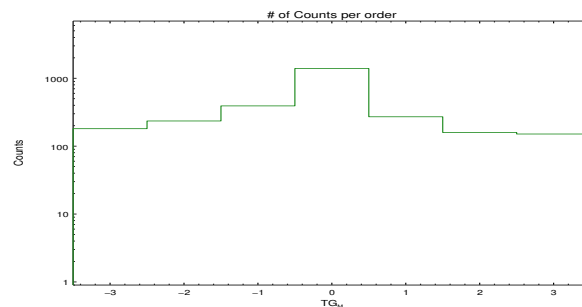


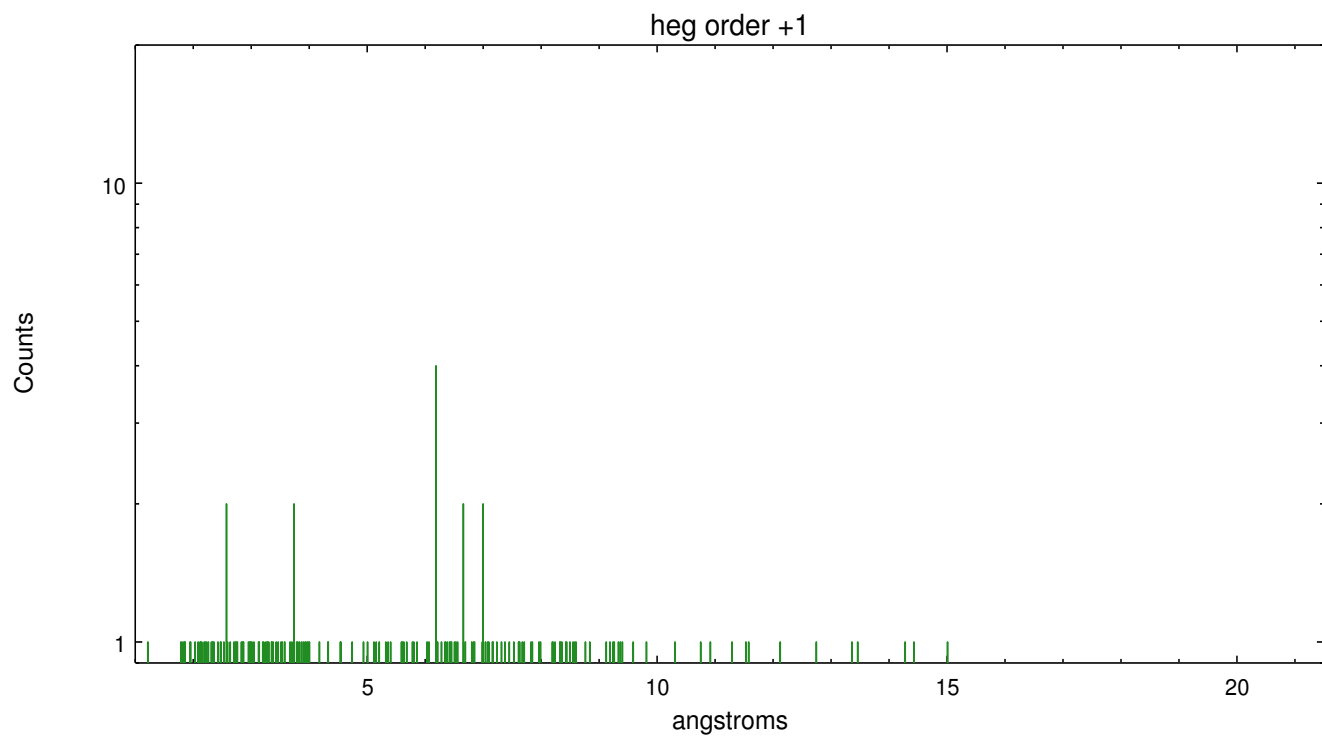
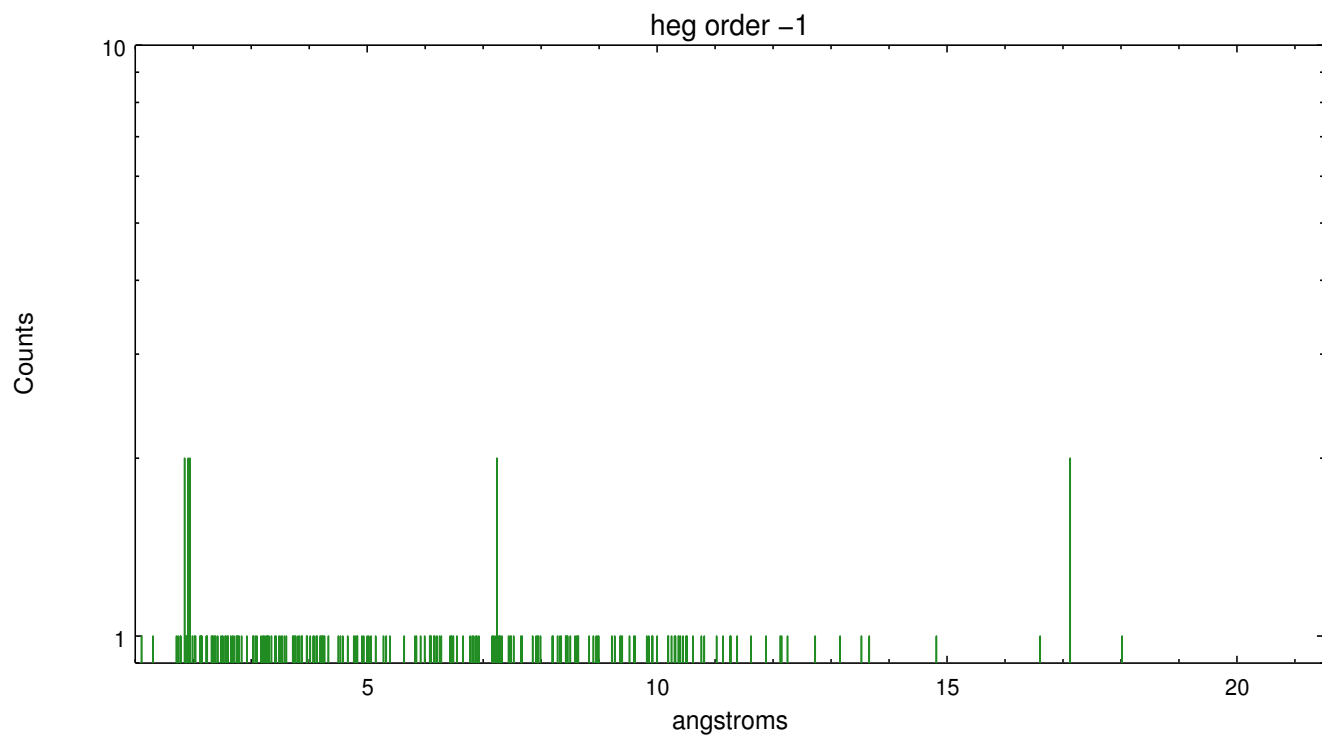
Spot Image HEG



Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	181	235	392	1393	271	159	151

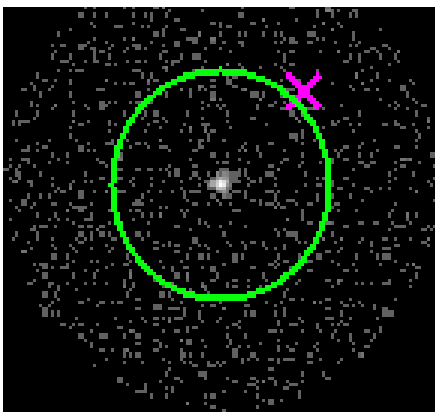




3.2 MEG Arm



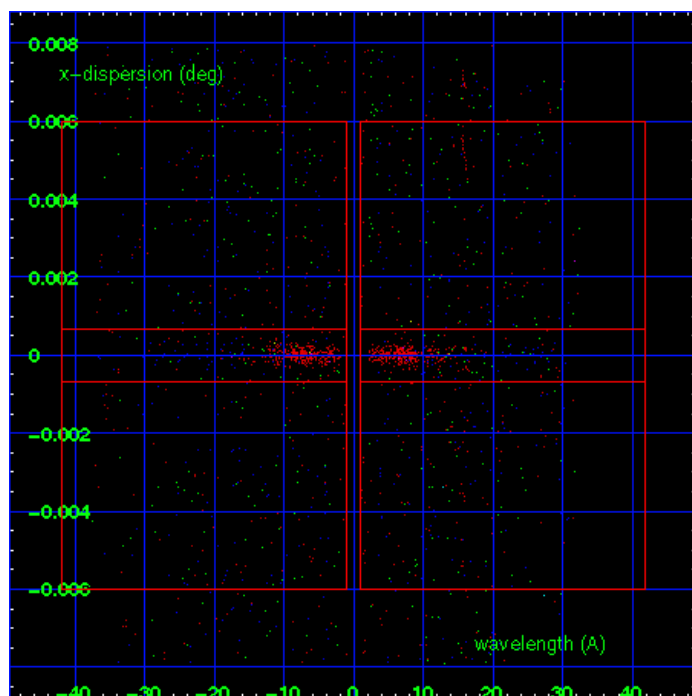
MEG Order Sort 123



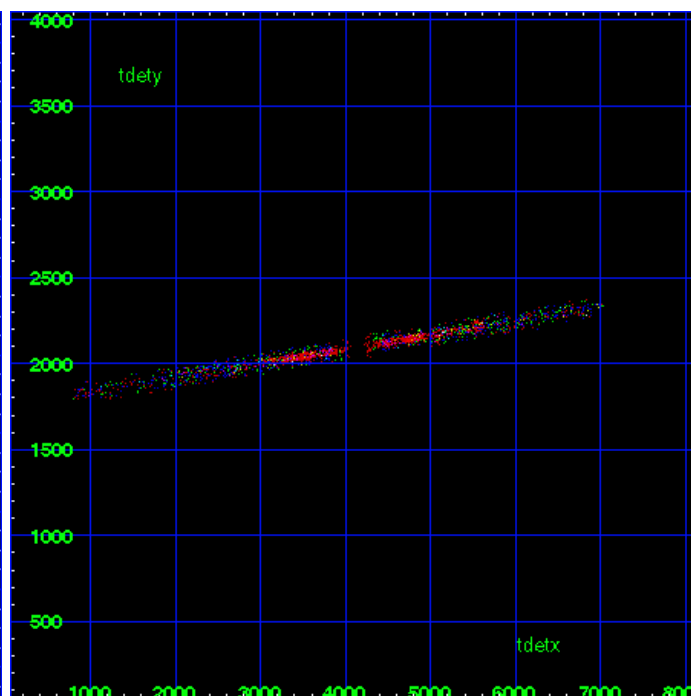
MEG Zero Order



MEG Order Sort ALL

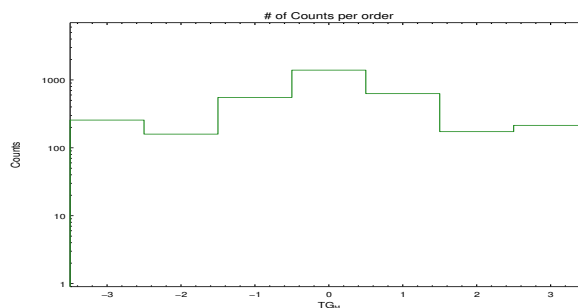


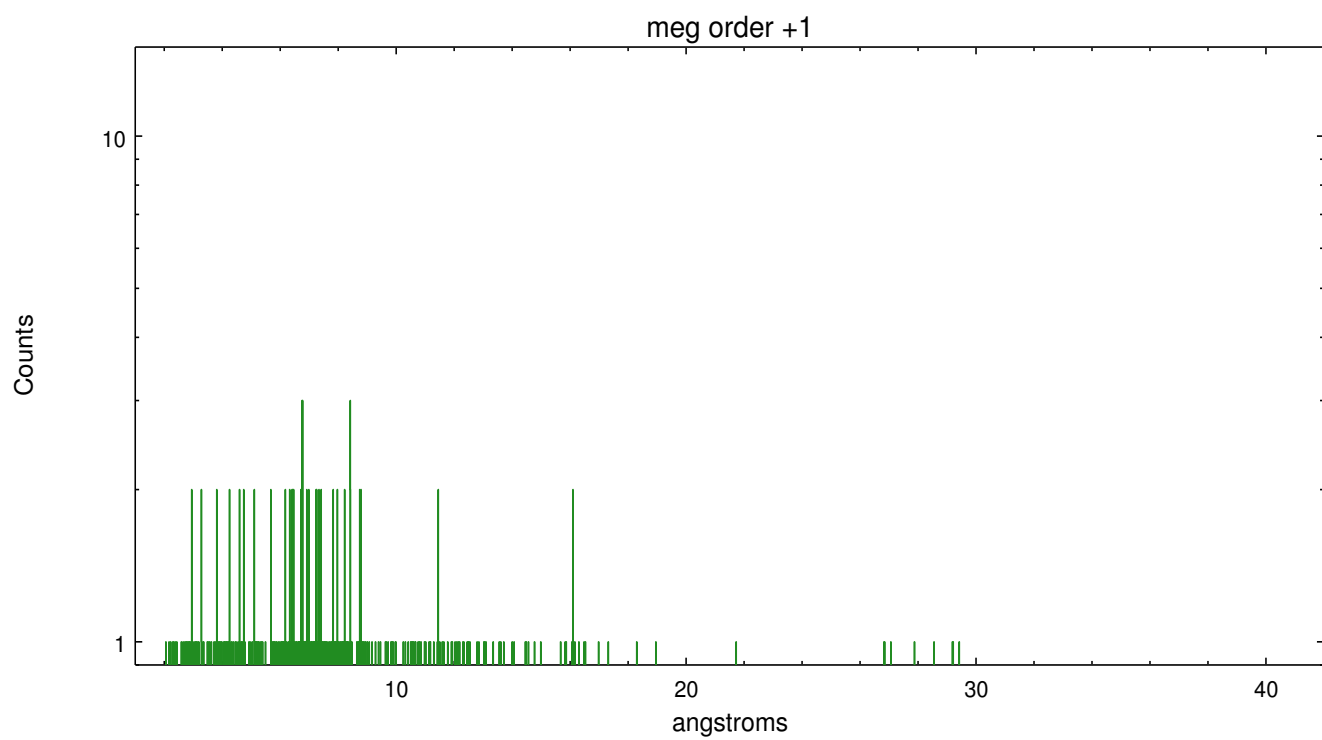
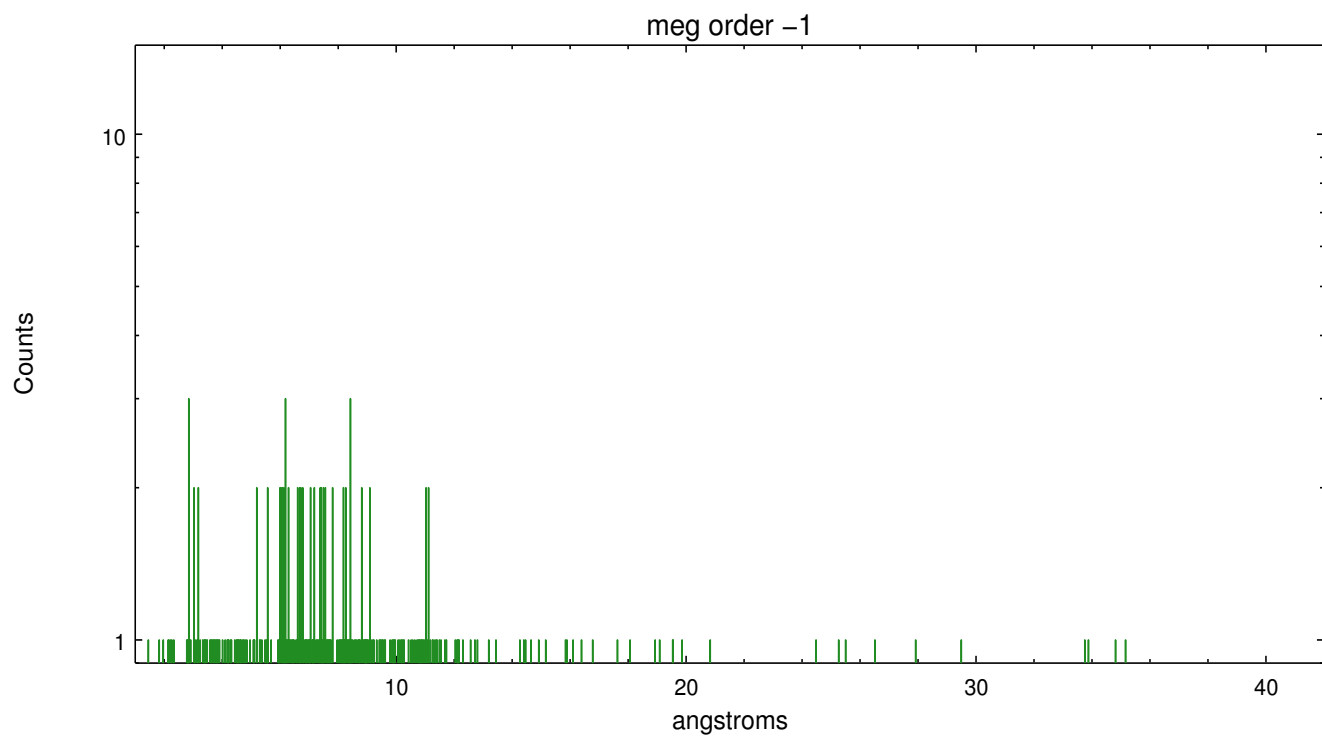
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	256	159	552	1393	628	173	214





A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.1425

A.2 Comments

Joint proposal with NOAO.