

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21239 - L2 Version 1
Chandra X-Ray Center

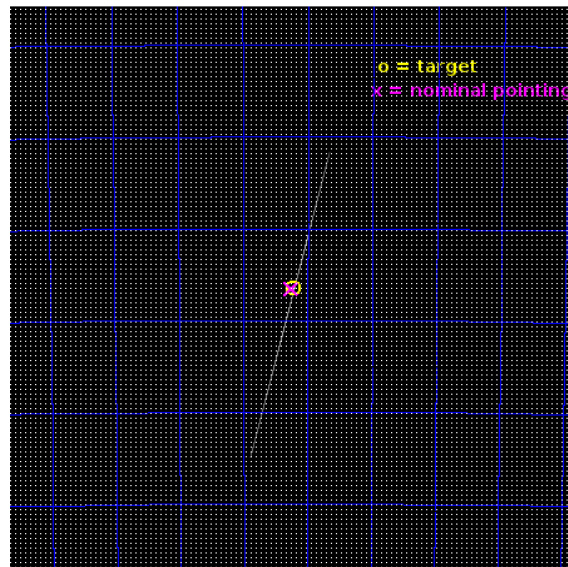
L2 Processing Date : Jun 21 2019

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1 Front

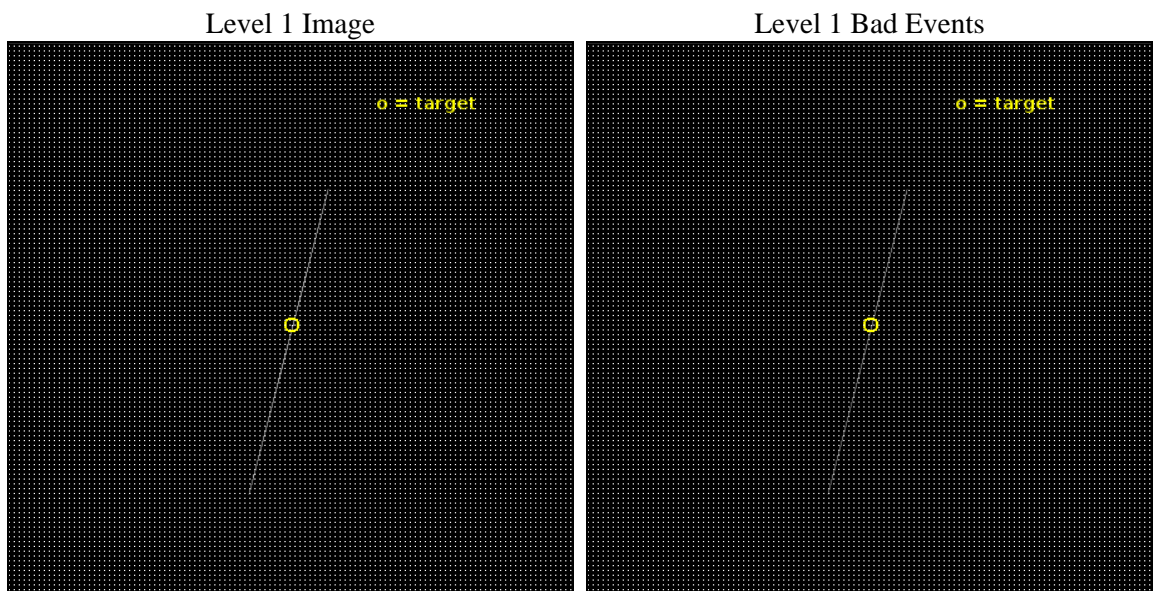
seq_num	402071	Sequence number
obs_id	21239	Observation id
title	A Test of Black-Hole Disk Truncation: Thermal Disk Emission in the Bright Hard State	Proposal title
observer	James Steiner	Principal investigator
object	MAXI J1348-630	Source name
ra_targ	207.0535	Observer's specified target RA [deg]
dec_targ	-63.274611	Observer's specified target Dec [deg]
ra_nom	207.06292751286	Nominal RA [deg]
dec_nom	-63.27597525634	Nominal Dec [deg]
roll_nom	283.97114167971	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19117.5	Sum of GTIs [s]
livetime	19042.822265625	Livetime [s]
ontime5	19117.5	Sum of GTIs [s]
ontime6	19117.5	Sum of GTIs [s]
ontime7	19117.5	Sum of GTIs [s]
ontime8	19116.040840626	Sum of GTIs [s]
l2events	3368362	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	19117.5	Sum of GTIs [s]
caldsver	4.8.3	 	ontime5	19117.5	Sum of GTIs [s]
date	2019-06-21T23:59:03	Date and time of file creation	ontime6	19117.5	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	19117.5	Sum of GTIs [s]
			ontime8	19116.040840626	Sum of GTIs [s]
			l1events	5551324	Number of level 1 events
			tgmeth	TGDETECT	Method used to create src1a file
			zo_pos	(4127.51, 4106.35)	src1a sky pixel position

2.1.3 Events

	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	685854	1286547	2774968	803955
rejected events	245308	306874	907588	385061
rejected %	35%	23%	32%	47%

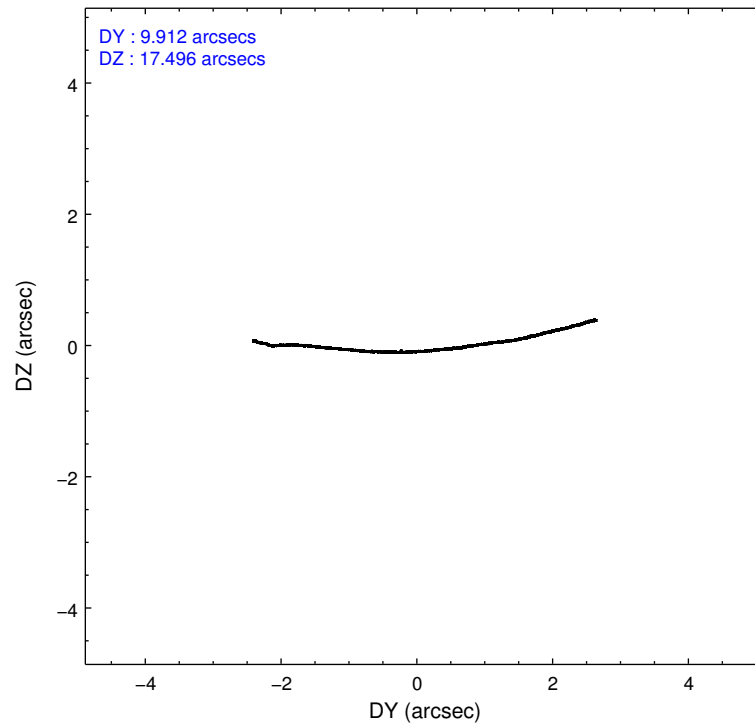
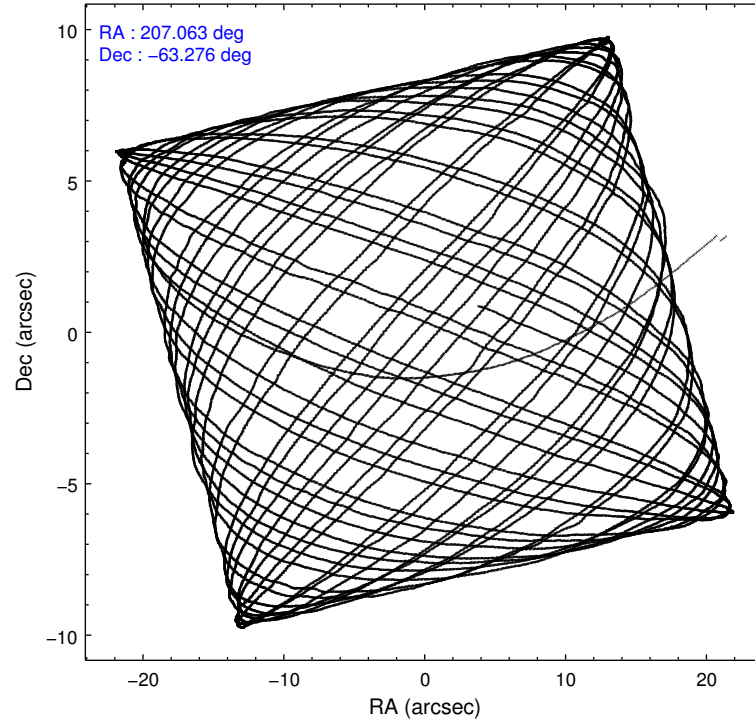
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	114995	8127	152387	29347
	16%	0%	5%	3%
grade 1 events	230	147	8870	331
	0%	0%	0%	0%
grade 2 events	193510	868316	734497	330979
	28%	67%	26%	41%
grade 3 events	4229	3169	79458	8557
	0%	0%	2%	1%
grade 4 events	4009	3093	80807	8358
	0%	0%	2%	1%
grade 5 events	14429	11324	93292	12446
	2%	0%	3%	1%
grade 6 events	124109	97789	821623	41970
	18%	7%	29%	5%
grade 7 events	230343	294582	804034	371967
	33%	22%	28%	46%

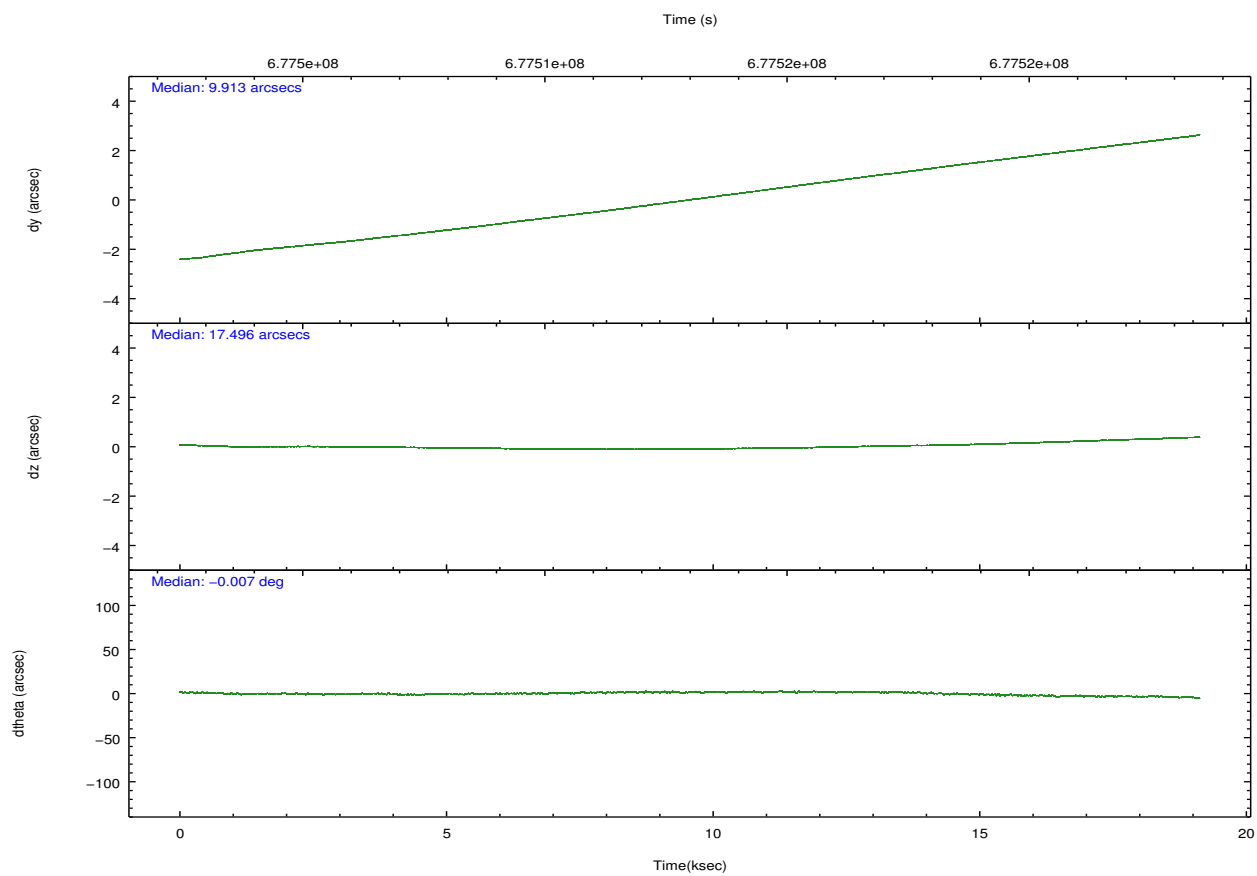
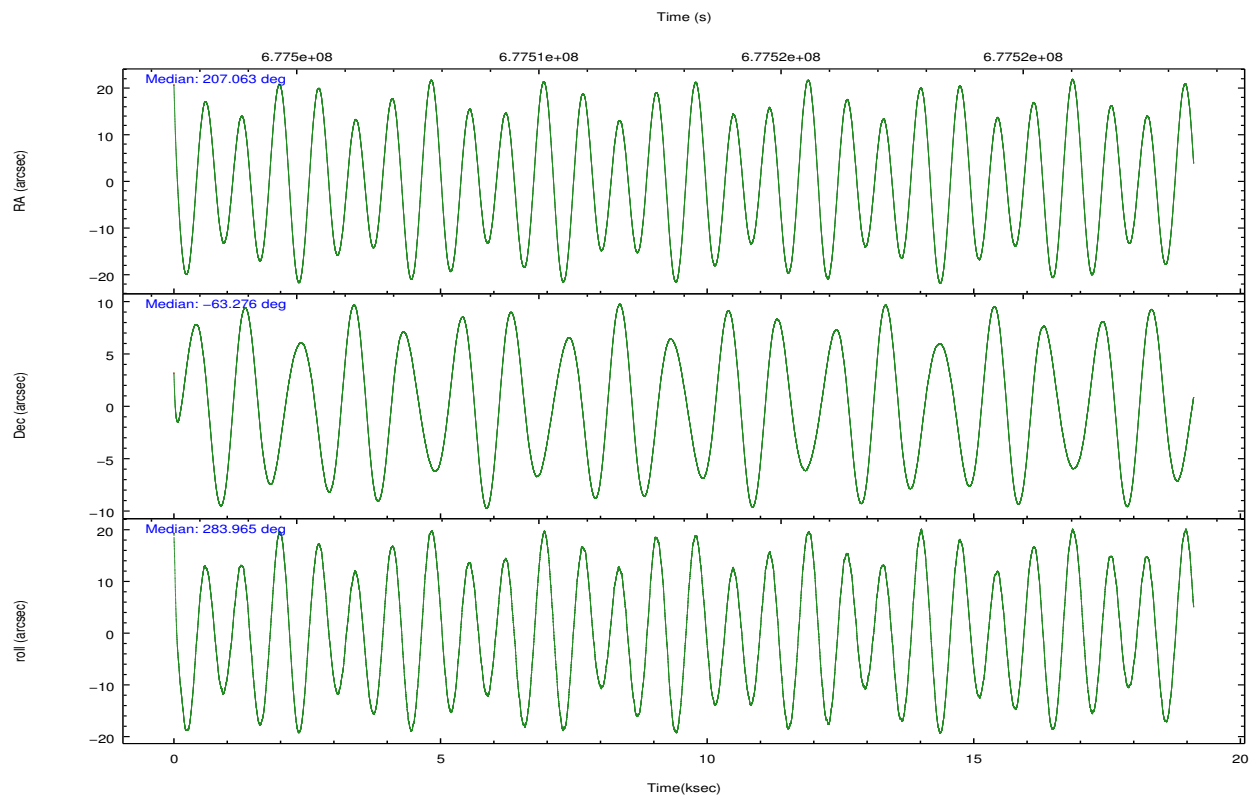
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-5678	ACIS-5678
Grating	HETG	HETG
Data mode	CC33_GRADED	CC33_GRADED
Observation mode	POINTING	POINTING
[deg] Pointing RA	207.019999	207.0629275128601
[deg] Pointing Dec	-63.256480	-63.27597525634
[deg] Pointing Roll	283.776175	283.9711416797061
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	677503576.184000	677502024.49854
Observation start date	2019-06-21T11:25:07	2019-06-21T11:00:24
[s] Observation end time (MET)	677522576.184000	677523208.1748101
Observation end date	2019-06-21T16:41:47	2019-06-21T16:53:28
Read mode	CONTINUOUS	CONTINUOUS

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	O1	N
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	O3	Y
CCD S5 on	O2	N
Number of optional ACIS chips dropped	2	2
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0

2.3 Aspect



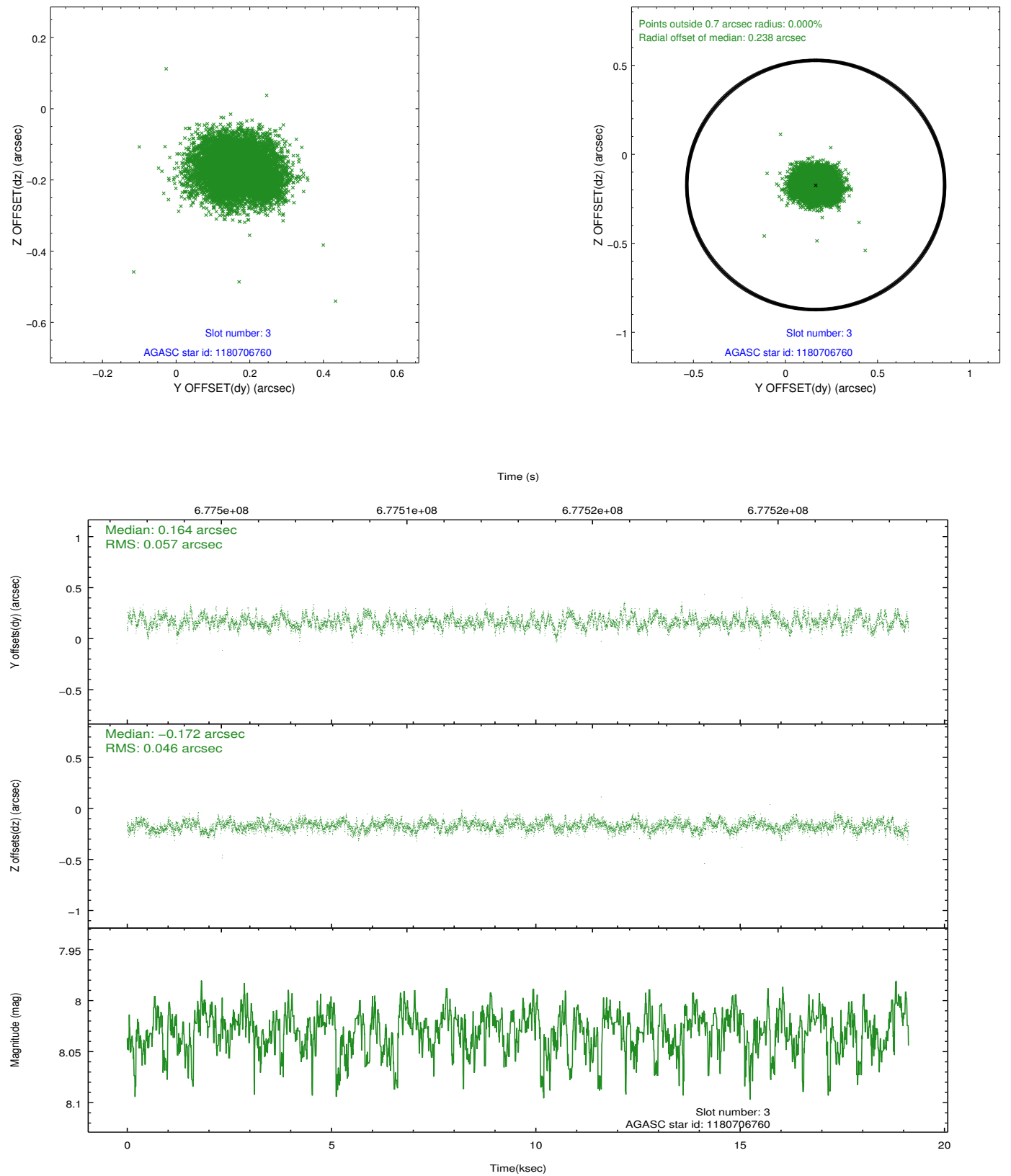


Slot Statistics

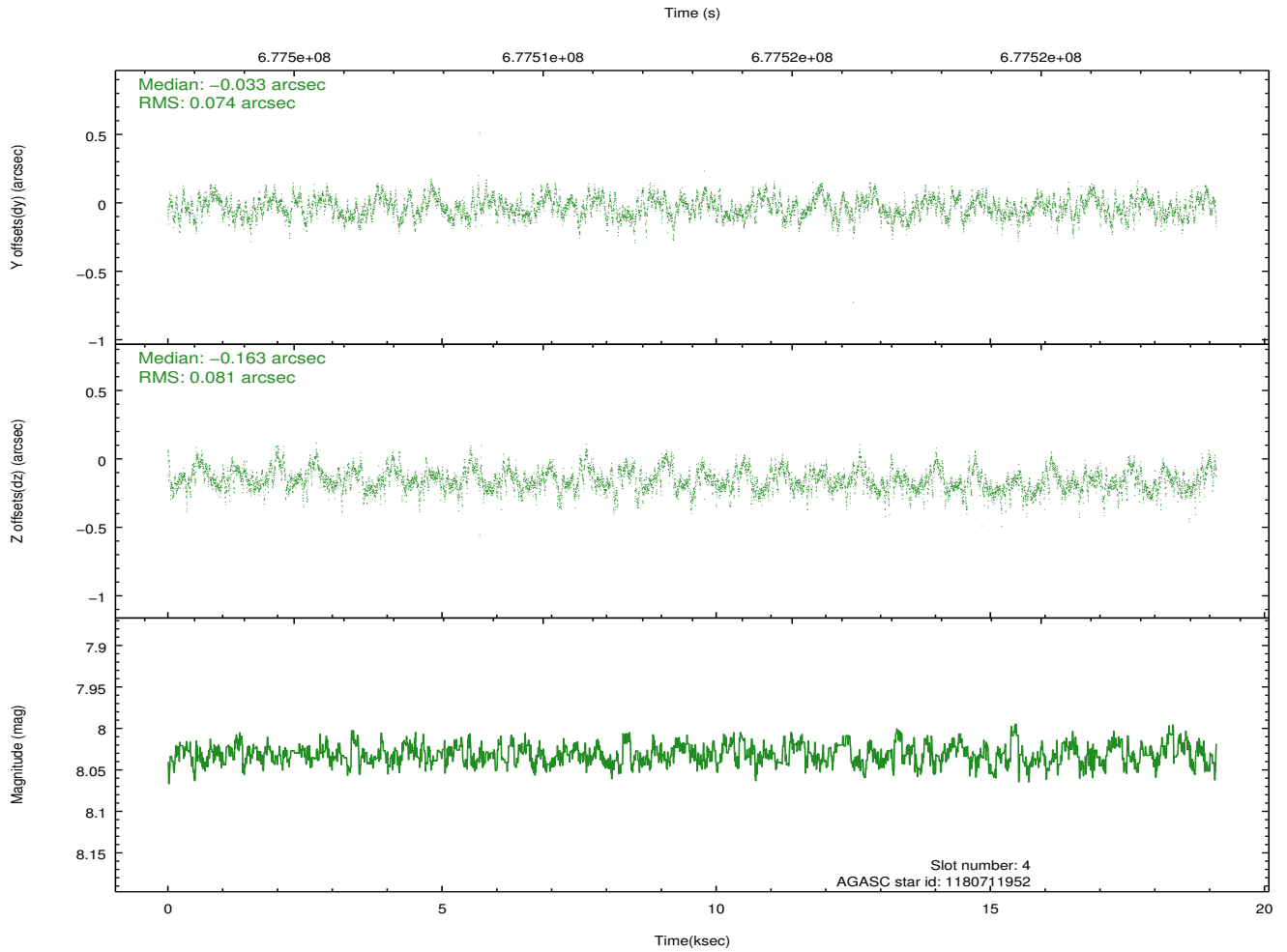
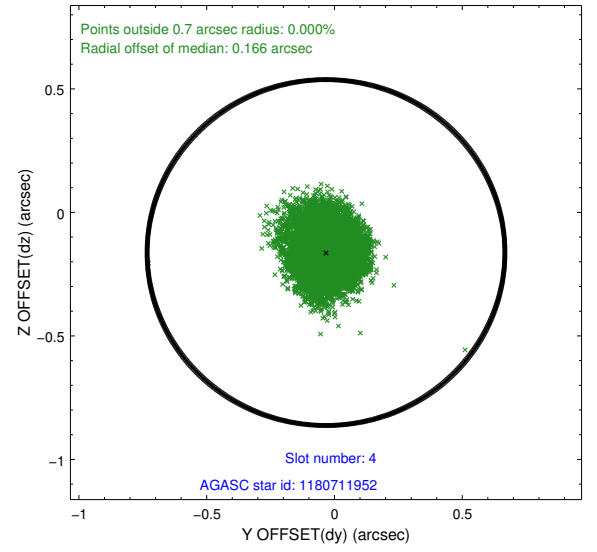
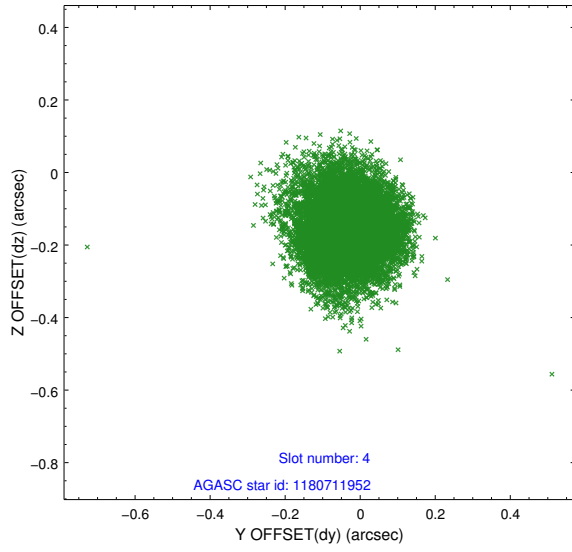
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.09	4665	1.000	0.170	-0.074	0.017	0.049	0.000000	0.000000	933.48	-1734
1	FID		ACIS-S-5	7.10	4665	1.000	-0.408	0.075	0.037	0.088	0.000000	0.000000	-1816.04	162
2	FID		ACIS-S-6	7.25	4665	1.000	0.215	0.009	0.017	0.061	0.000000	0.000000	398.77	807
3	GUIDE	used	1180706760	8.03	9328	1.000	0.164	-0.172	0.079	0.127	207.130891	-63.143939	-350.19	271
4	GUIDE	used	1180711952	8.03	9324	1.000	-0.033	-0.163	0.117	0.185	208.267354	-62.888019	-782.11	2298
5	GUIDE	used	1180717040	7.85	9329	1.000	-0.138	-0.143	0.095	0.147	208.136771	-63.356115	792.76	1662
6	GUIDE	used	1179002024	8.01	9327	1.000	0.191	0.605	0.109	0.175	205.266581	-62.776003	-2328.73	-2401
7	GUIDE	used	1180723336	8.23	9324	1.000	-0.183	-0.137	0.113	0.186	208.235059	-62.720623	-1378.39	2401

2.4 Star Slots

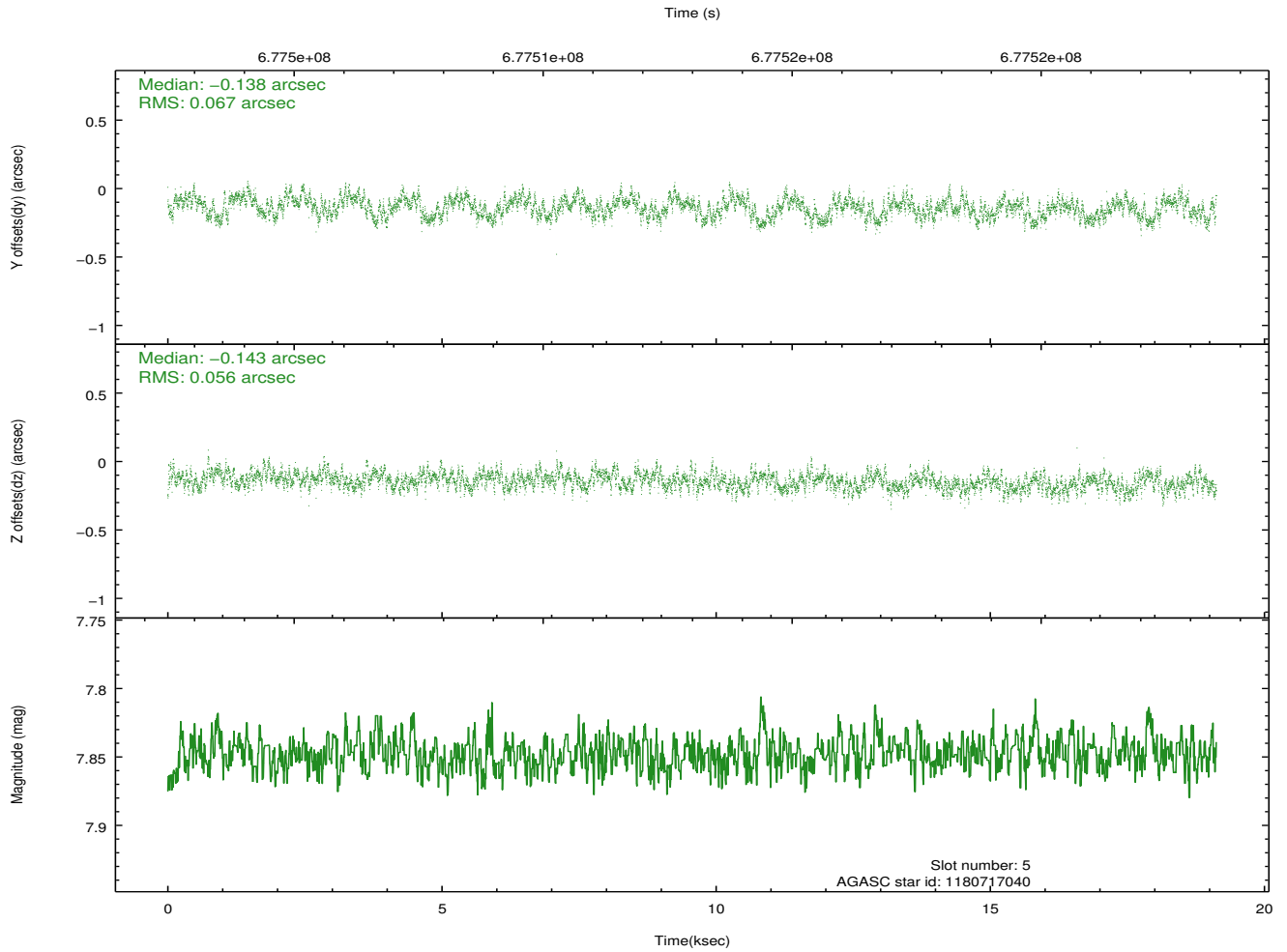
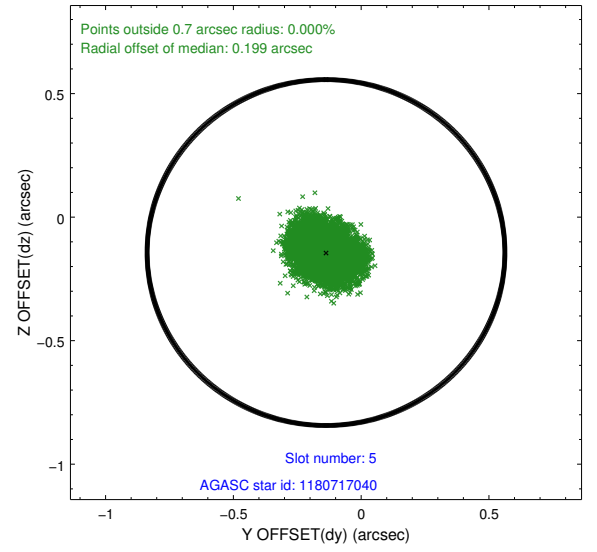
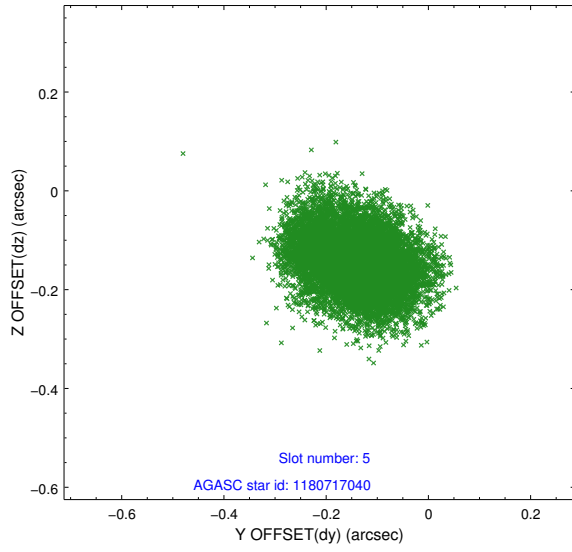
2.4.1 Slot 3



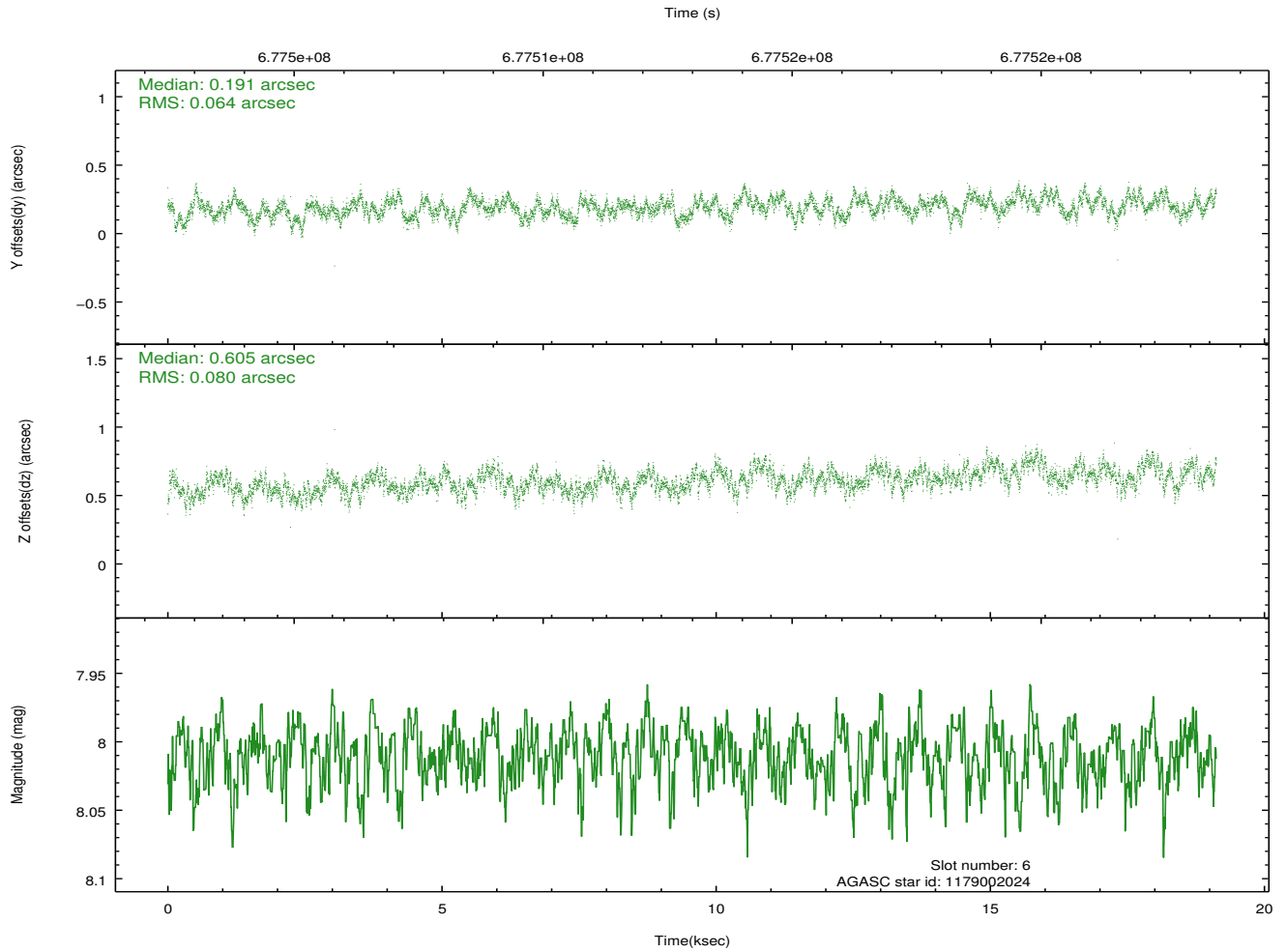
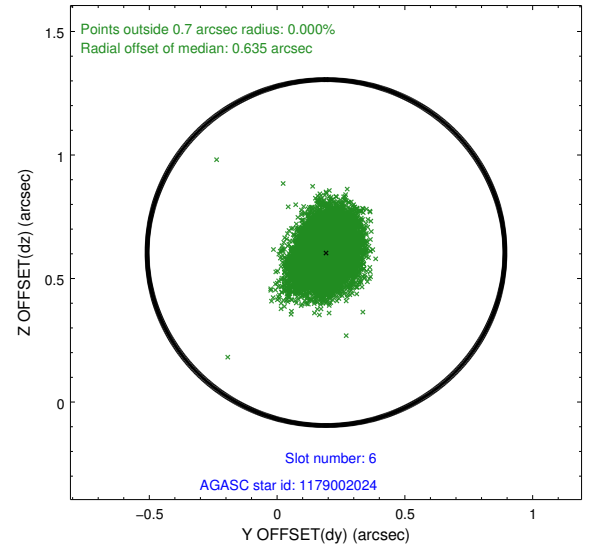
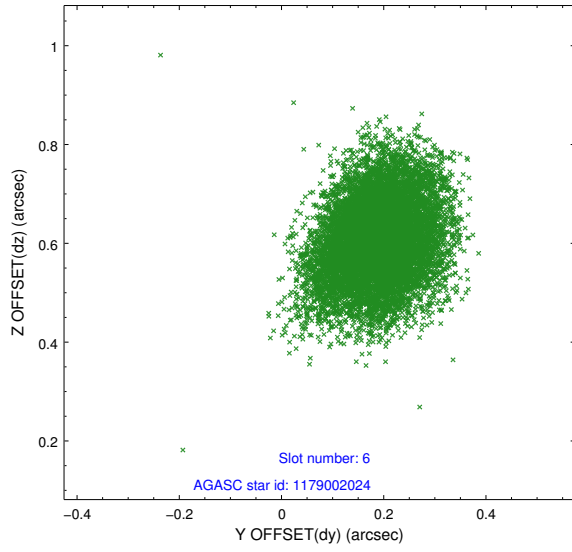
2.4.2 Slot 4



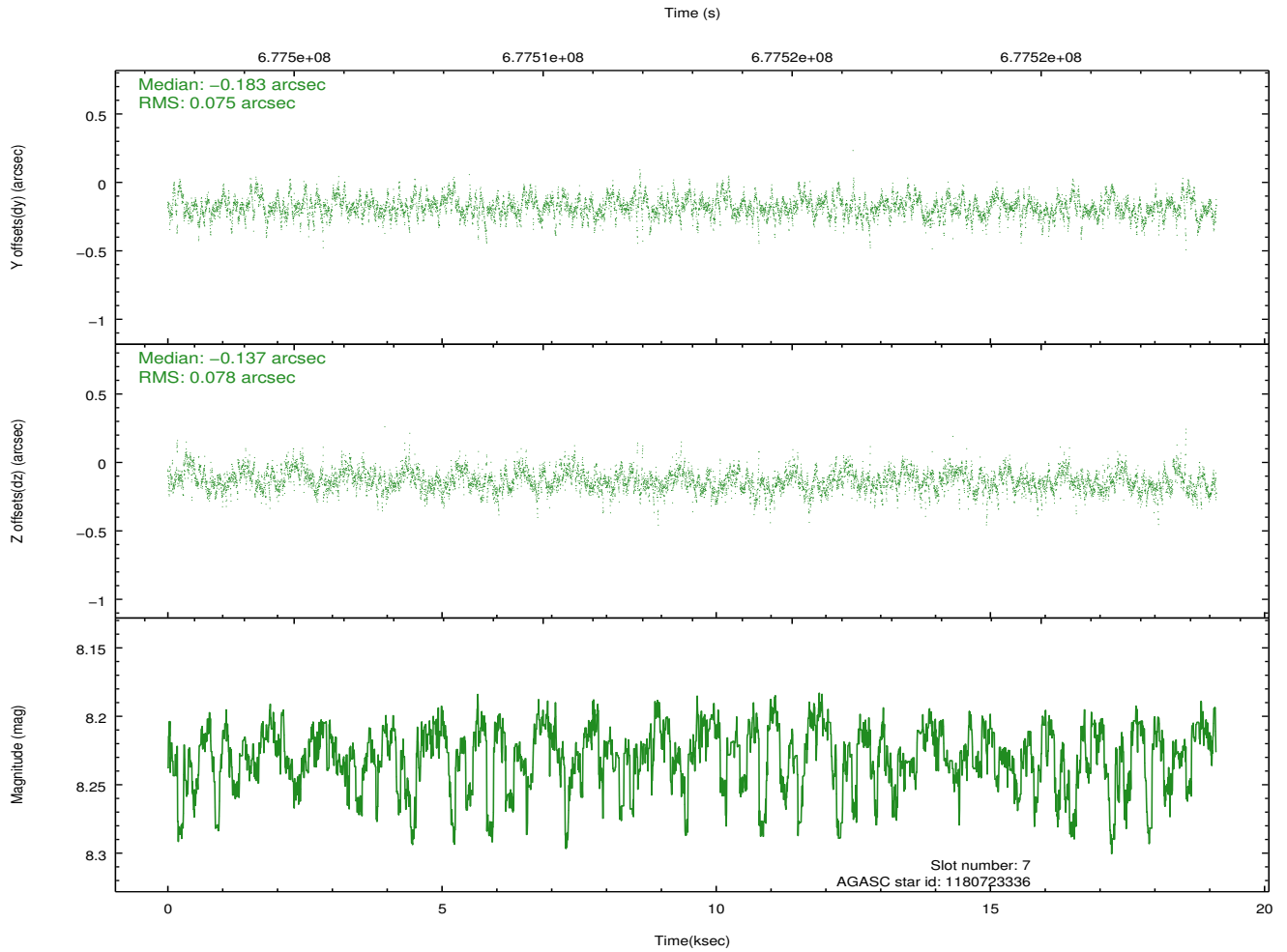
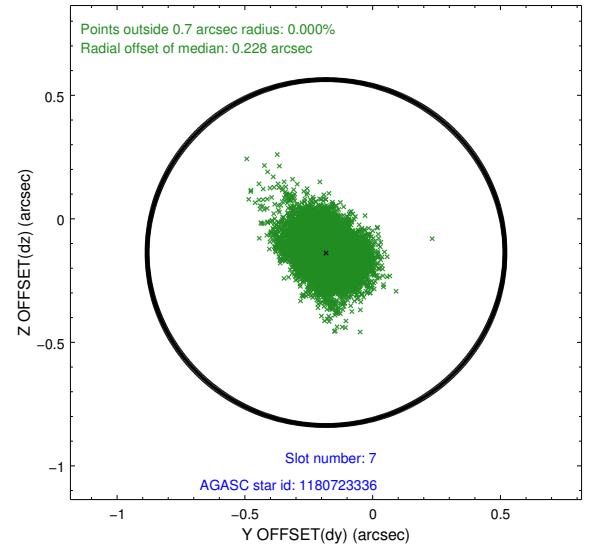
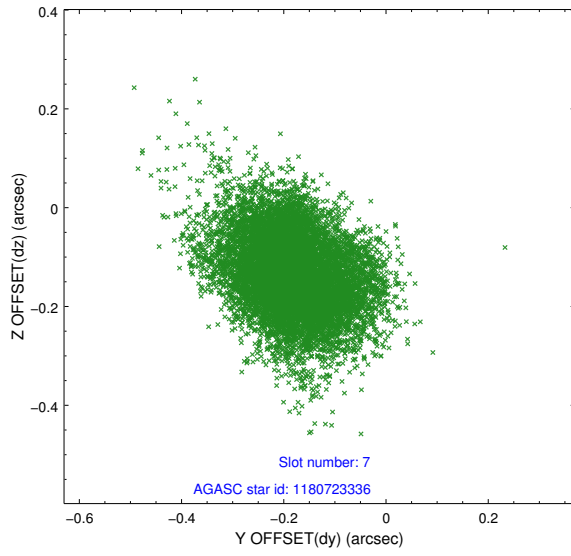
2.4.3 Slot 5



2.4.4 Slot 6

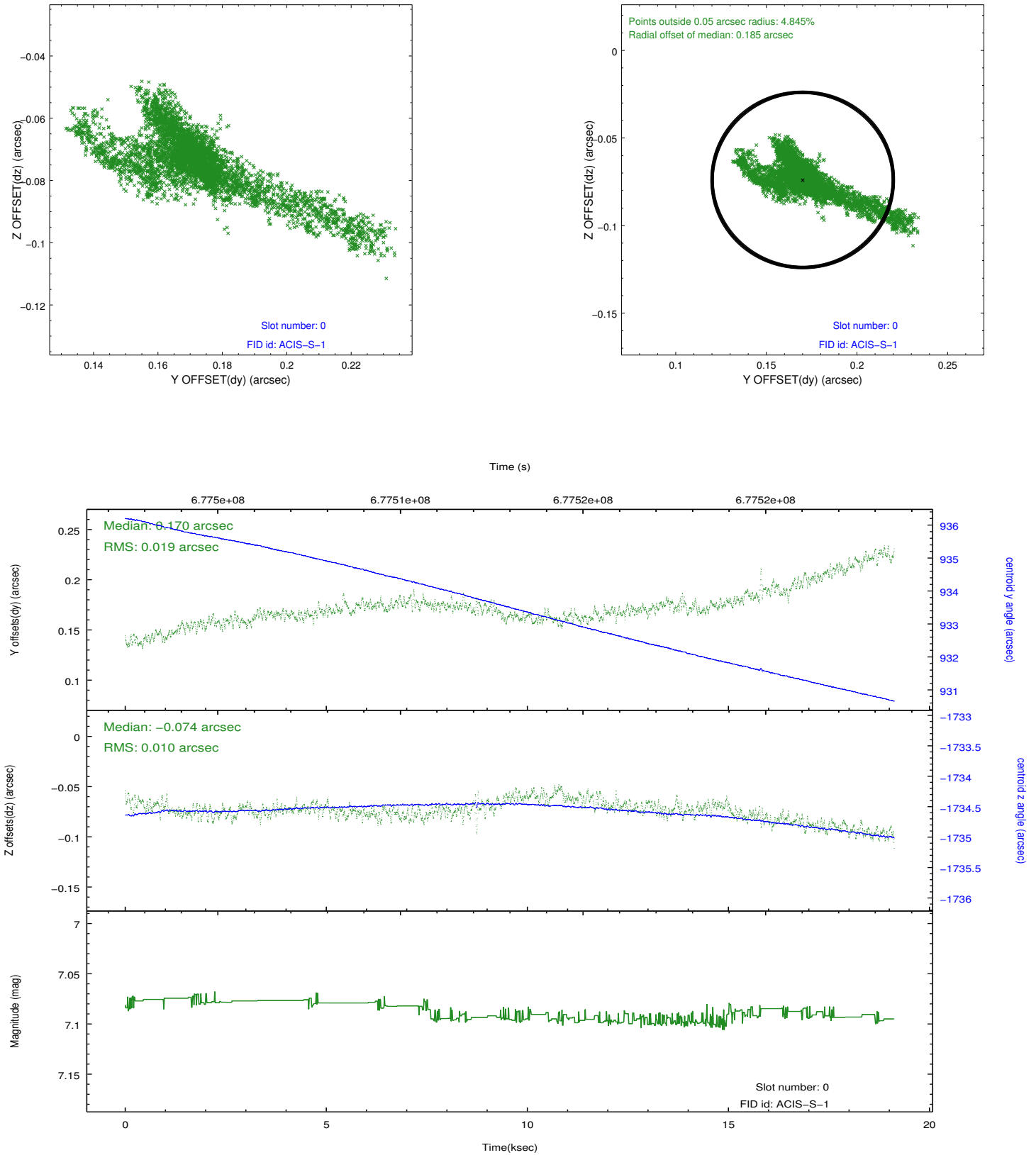


2.4.5 Slot 7

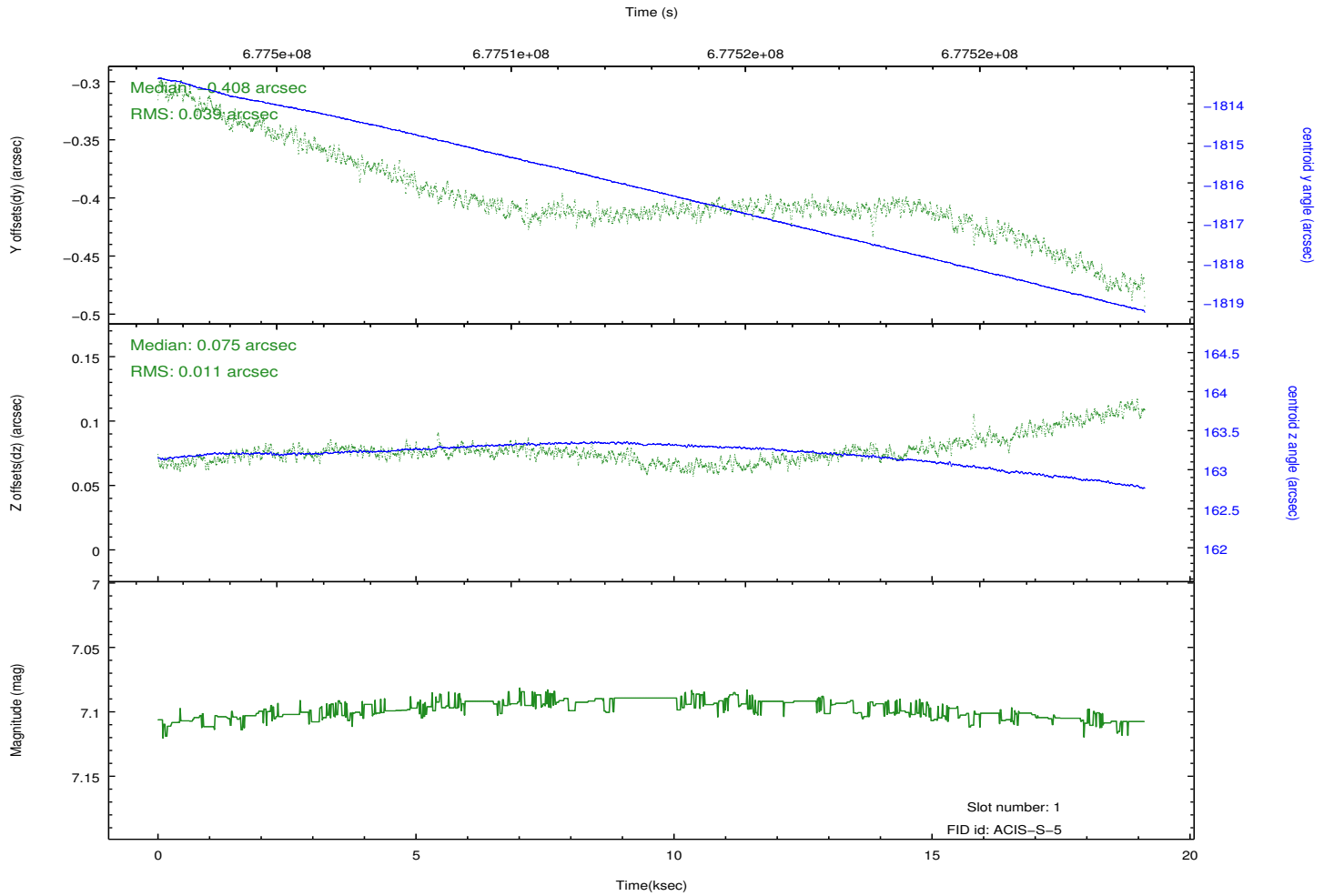
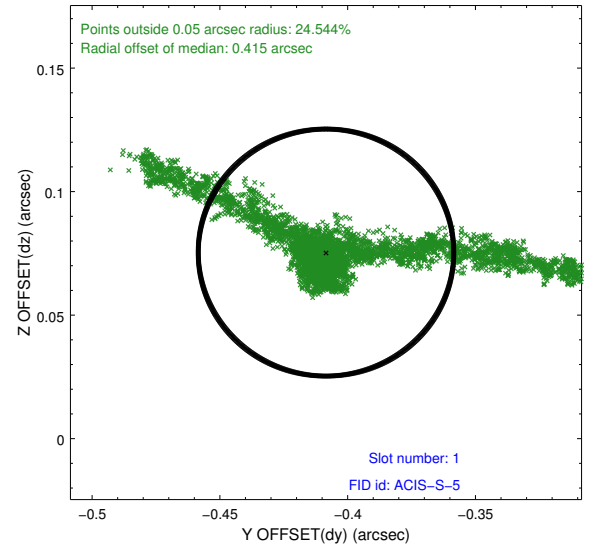
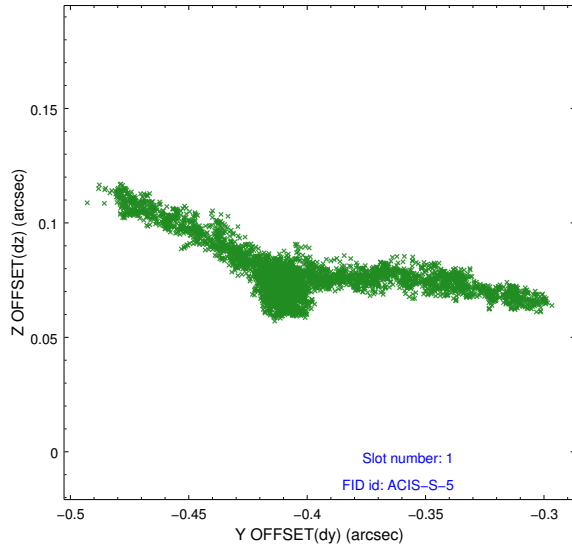


2.5 FID Slots

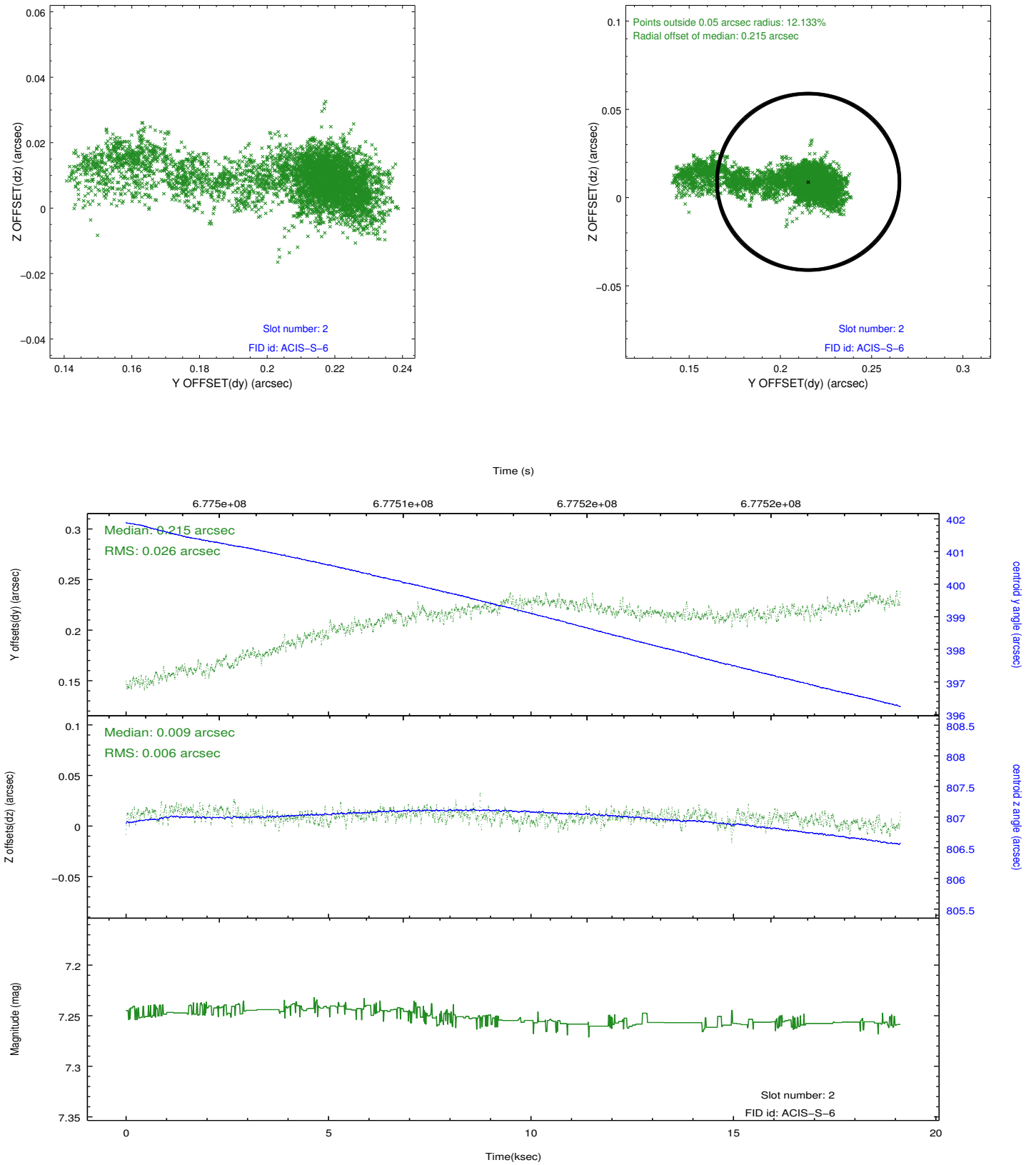
2.5.1 Slot 0



2.5.2 Slot 1

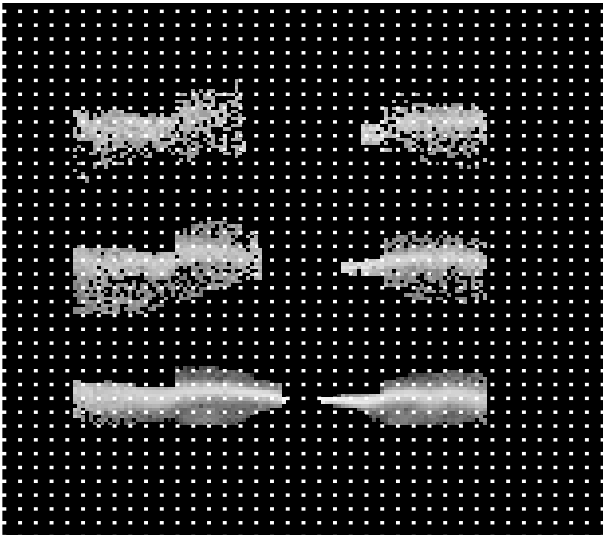


2.5.3 Slot 2

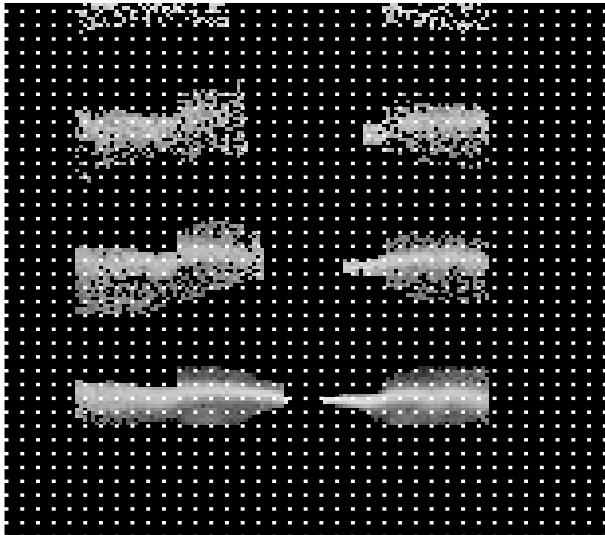


3 Gratings

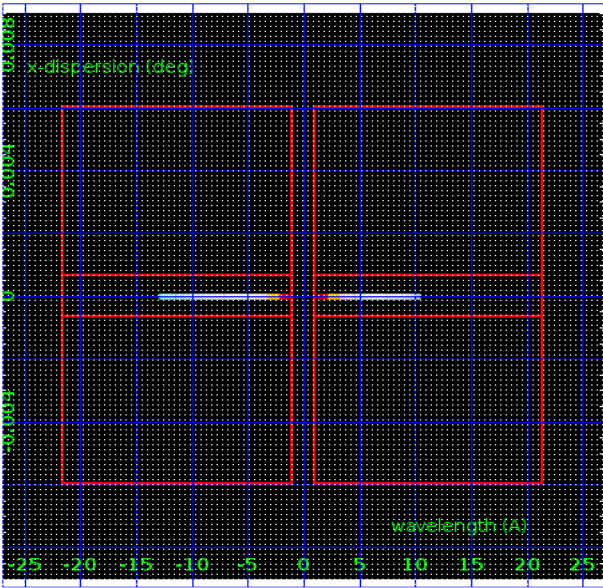
3.1 HEG Arm



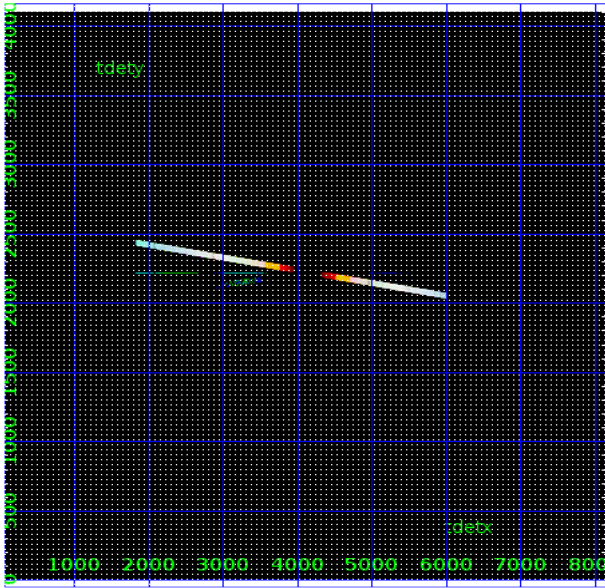
HEG Order Sort 123



HEG Order Sort ALL

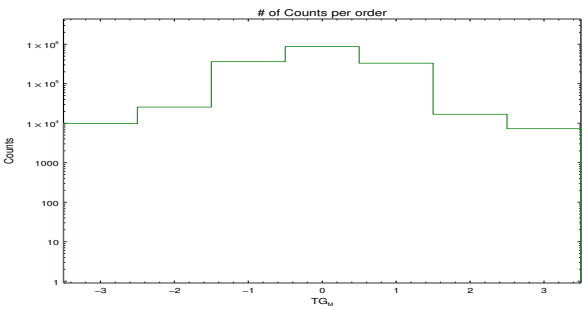


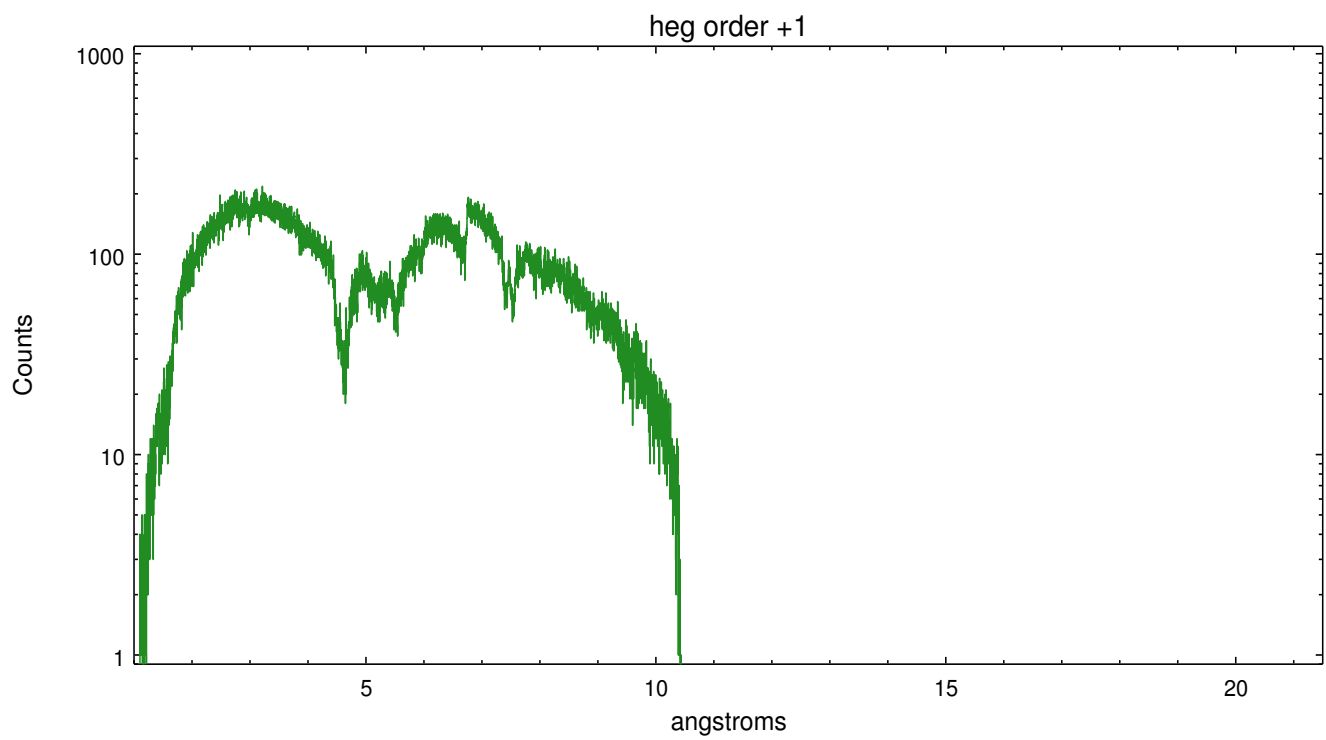
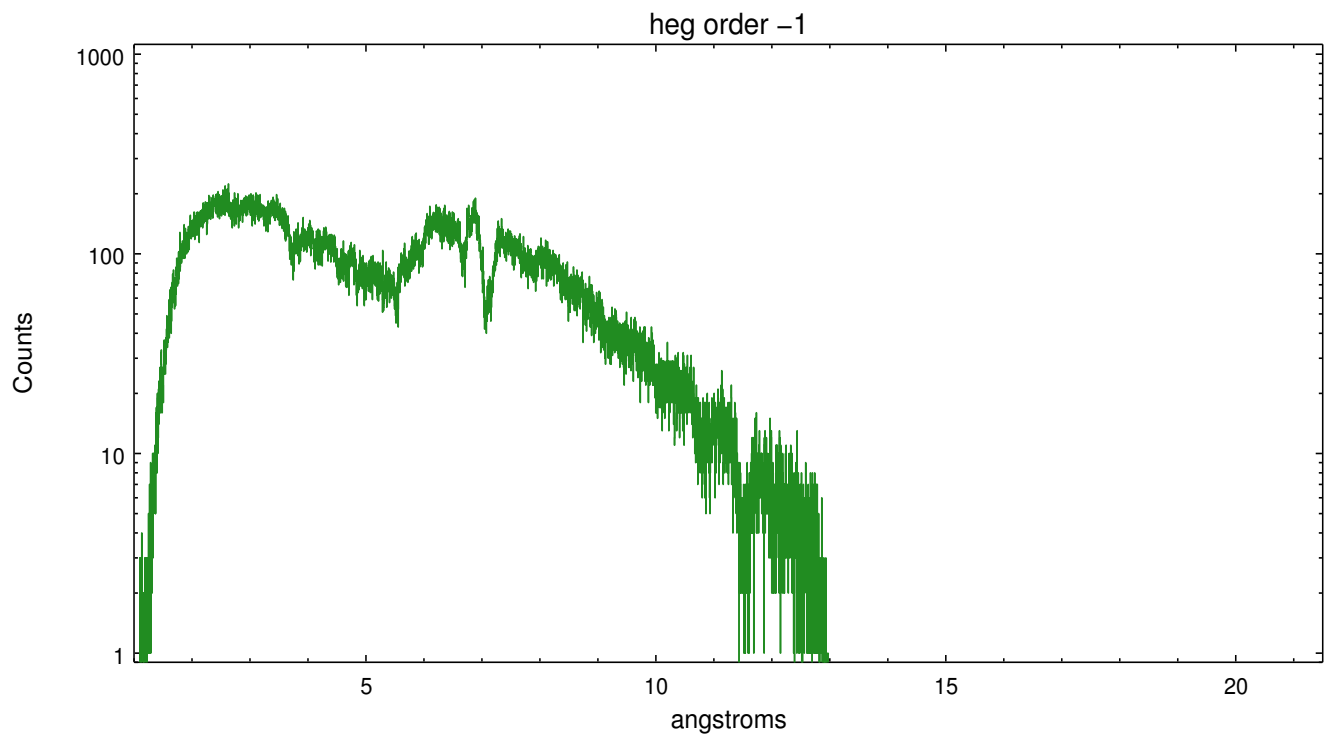
Spot Image HEG



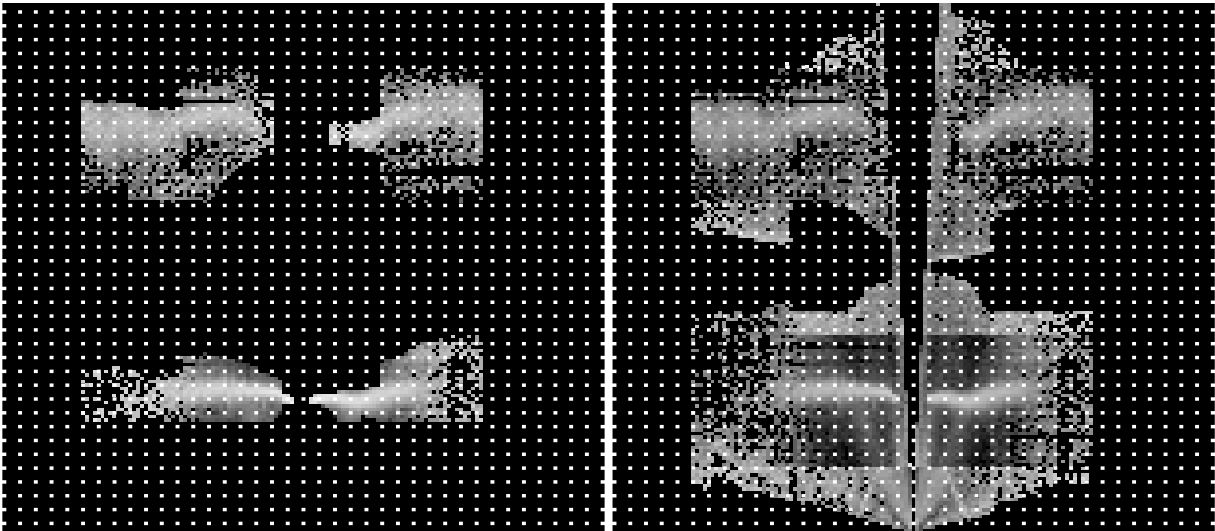
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	9793	25606	361887	870970	330776	16850	7268



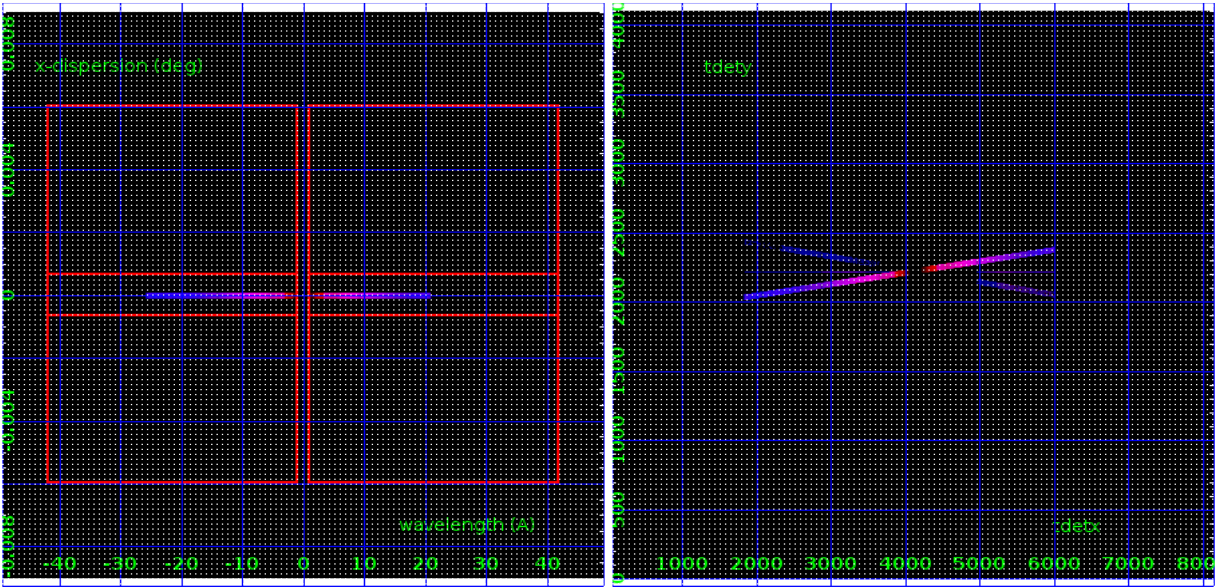


3.2 MEG Arm



MEG Order Sort 123

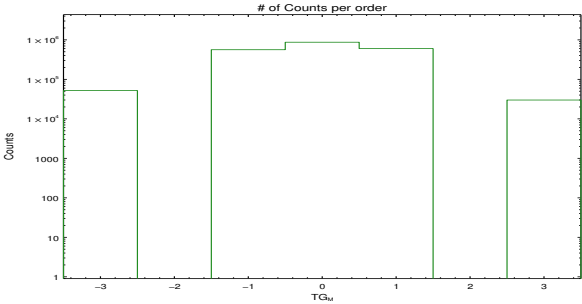
MEG Order Sort ALL

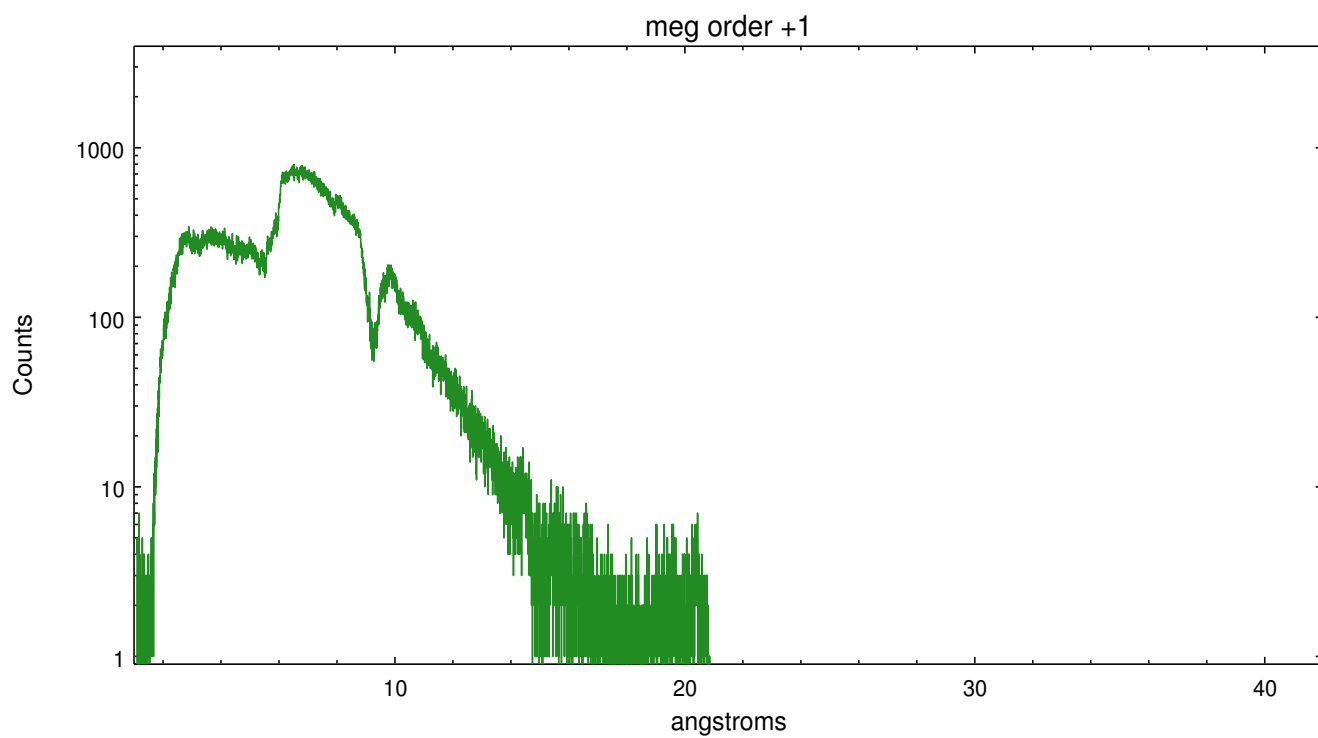
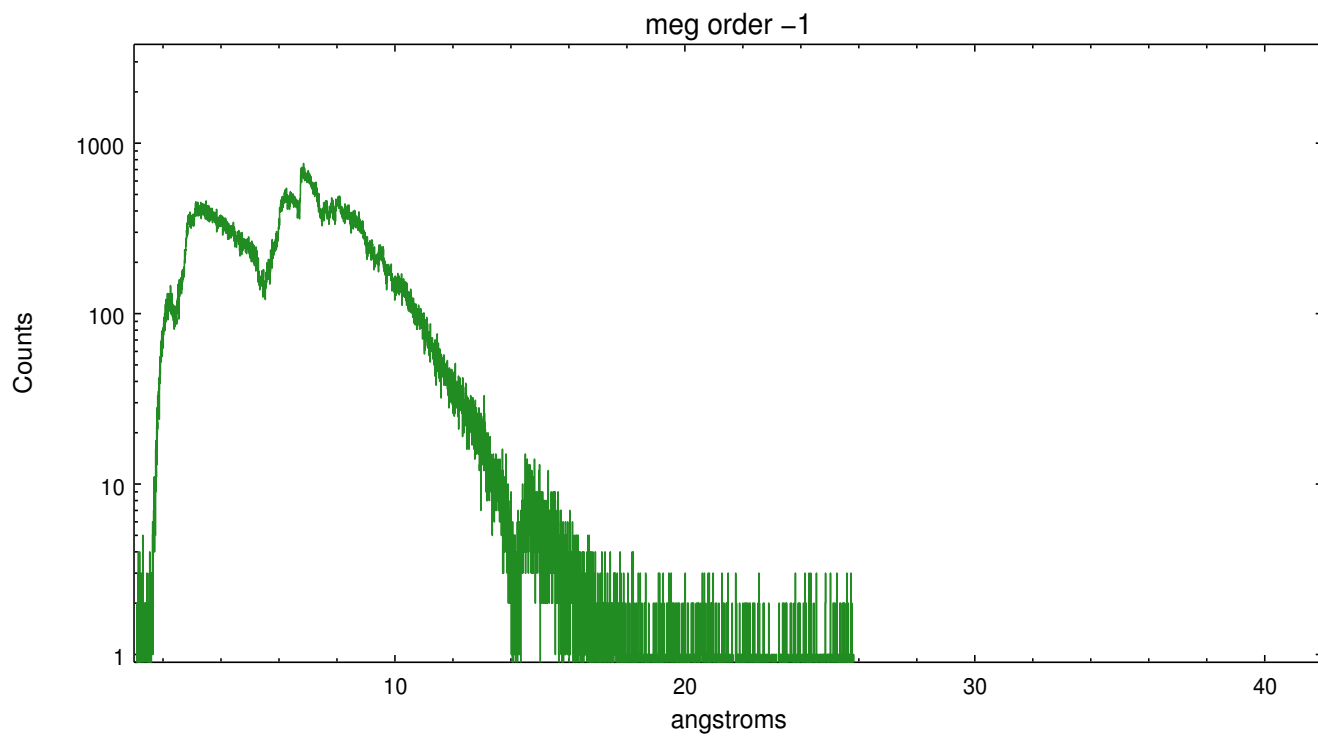


Spot Image MEG

Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	52000	0	563356	870970	600843	0	29952





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2019.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.1175

A.2 Comments