

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 17792 - L2 Version 1
Chandra X-Ray Center

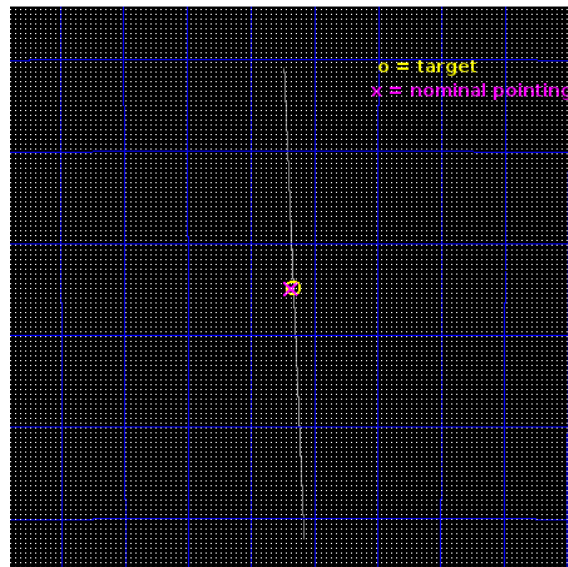
L2 Processing Date : Sep 30 2016

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1 Front

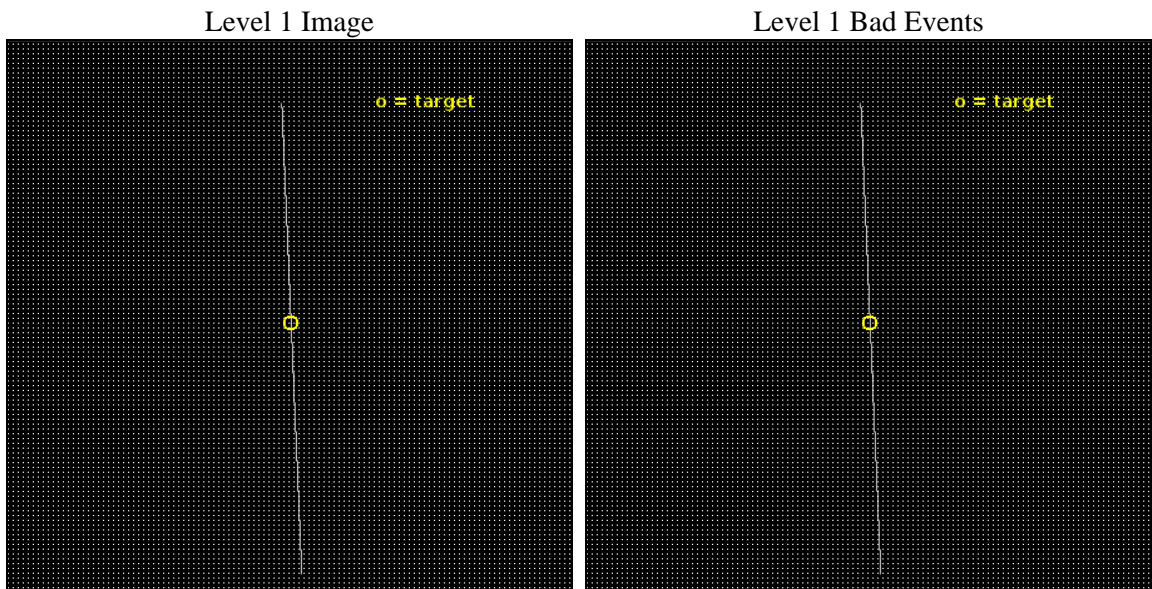
seq_num	401724	Sequence number
obs_id	17792	Observation id
title	An Integrated Approach to Winds, Jets, and State Transitions	Propo
observer	Joseph Neilsen	Principal investigator
object	GRS 1739-278	Source name
ra_targ	265.666792	Observer's specified target RA [deg]
dec_targ	-27.747969	Observer's specified target Dec [deg]
ra_nom	265.67004059029	Nominal RA [deg]
dec_nom	-27.74977135199	Nominal Dec [deg]
roll_nom	267.62680442749	Nominal Roll [deg]
revision	1	Processing version of data
ontime	29070.25	Sum of GTIs [s]
livetime	28956.694335938	Livetime [s]
ontime4	29070.25	Sum of GTIs [s]
ontime5	29070.25	Sum of GTIs [s]
ontime6	29070.25	Sum of GTIs [s]
ontime7	29070.25	Sum of GTIs [s]
ontime8	29070.25	Sum of GTIs [s]
ontime9	29070.25	Sum of GTIs [s]
l2events	425176	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	29000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	29070.25	Sum of GTIs [s]
caldsver	4.7.2	 	ontime4	29070.25	Sum of GTIs [s]
date	2016-09-30T19:09:52	Date and time of file creation	ontime5	29070.25	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	29070.25	Sum of GTIs [s]
			ontime7	29070.25	Sum of GTIs [s]
			ontime8	29070.25	Sum of GTIs [s]
			ontime9	29070.25	Sum of GTIs [s]
			l1events	2403049	Number of level 1 events
			tgmetho	TGDETECT	Method used to create src1a file
				4117.50	

2.1.3 Events

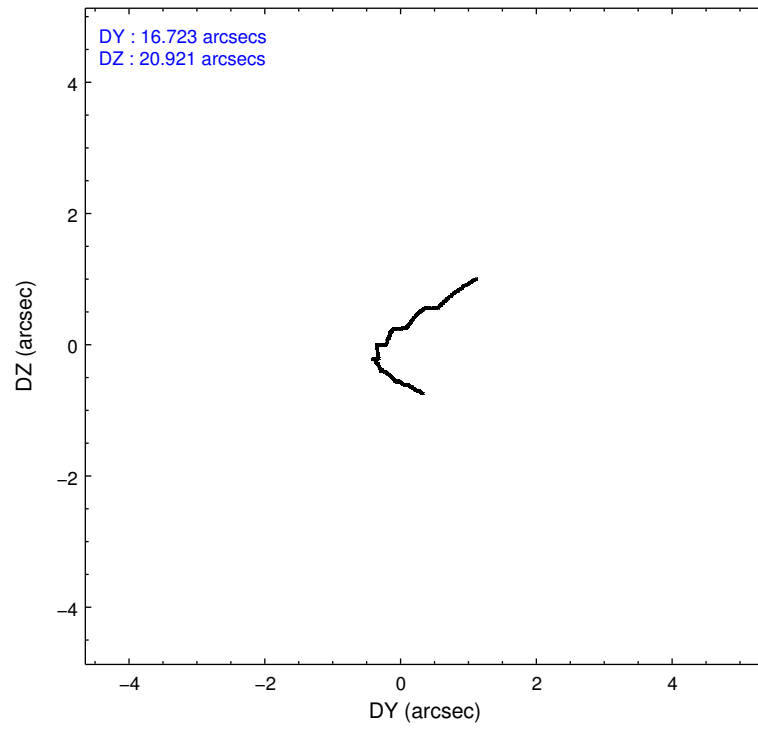
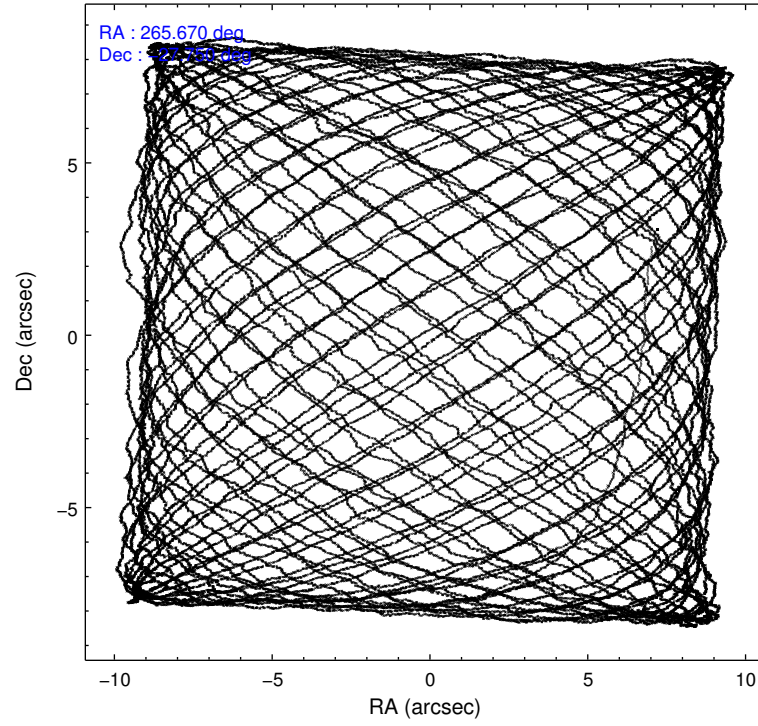
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	351287	416954	338988	415638	535925	344257	grade 0 events	3844	9448	3552	8164	19900	3899
rejected events	318151	261684	289933	265188	439667	308284		1%	2%	1%	1%	3%	1%
rejected %	90%	62%	85%	63%	82%	89%	grade 1 events	129	257	146	237	321	164
								0%	0%	0%	0%	0%	0%
							grade 2 events	12822	48439	26848	47968	31788	14487
								3%	11%	7%	11%	5%	4%
							grade 3 events	4131	3142	3992	5016	9467	3689
								1%	0%	1%	1%	1%	1%
							grade 4 events	4200	3003	3717	5069	9158	4068
								1%	0%	1%	1%	1%	1%
							grade 5 events	7826	16360	9100	17162	13366	9750
								2%	3%	2%	4%	2%	2%
							grade 6 events	8142	91253	10951	84254	25986	9832
								2%	21%	3%	20%	4%	2%
							grade 7 events	310193	245052	280682	247768	425939	298368
								88%	58%	82%	59%	79%	86%

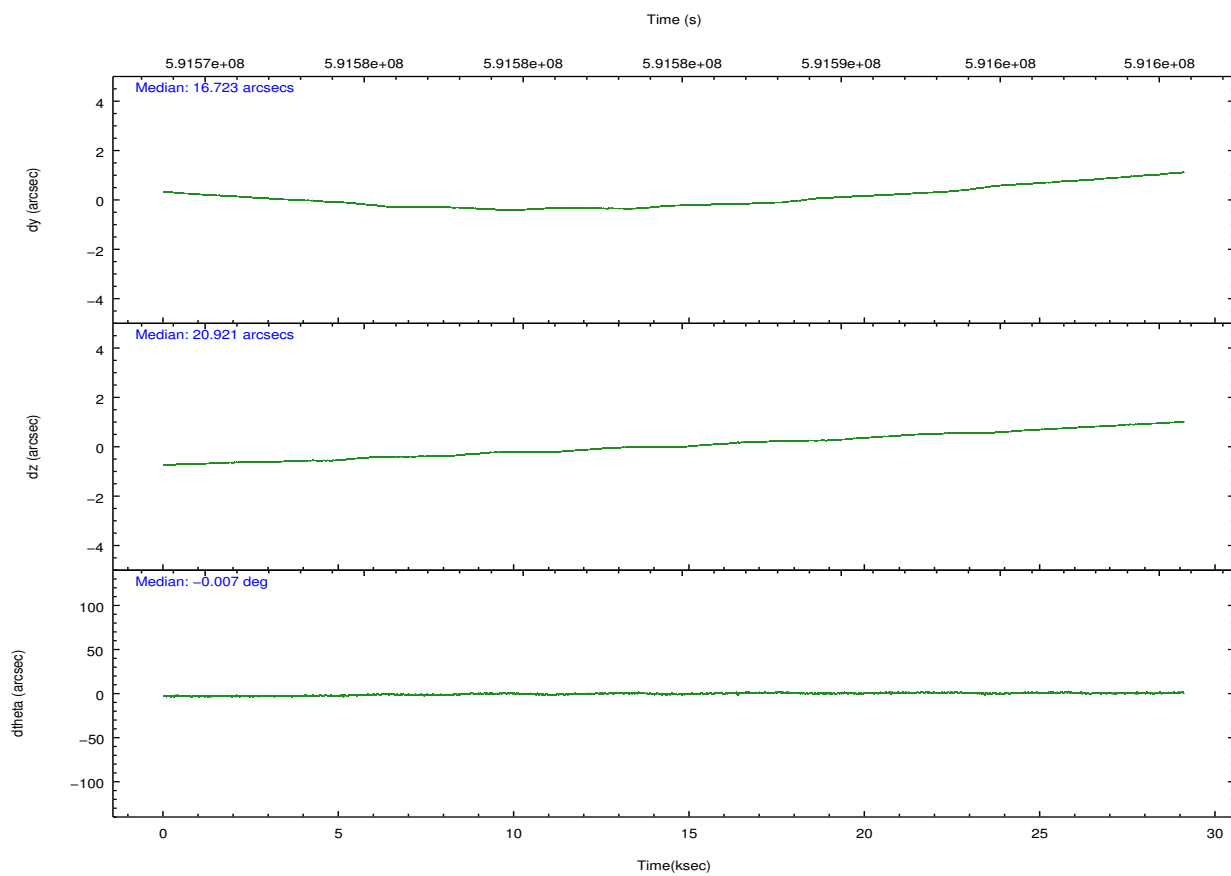
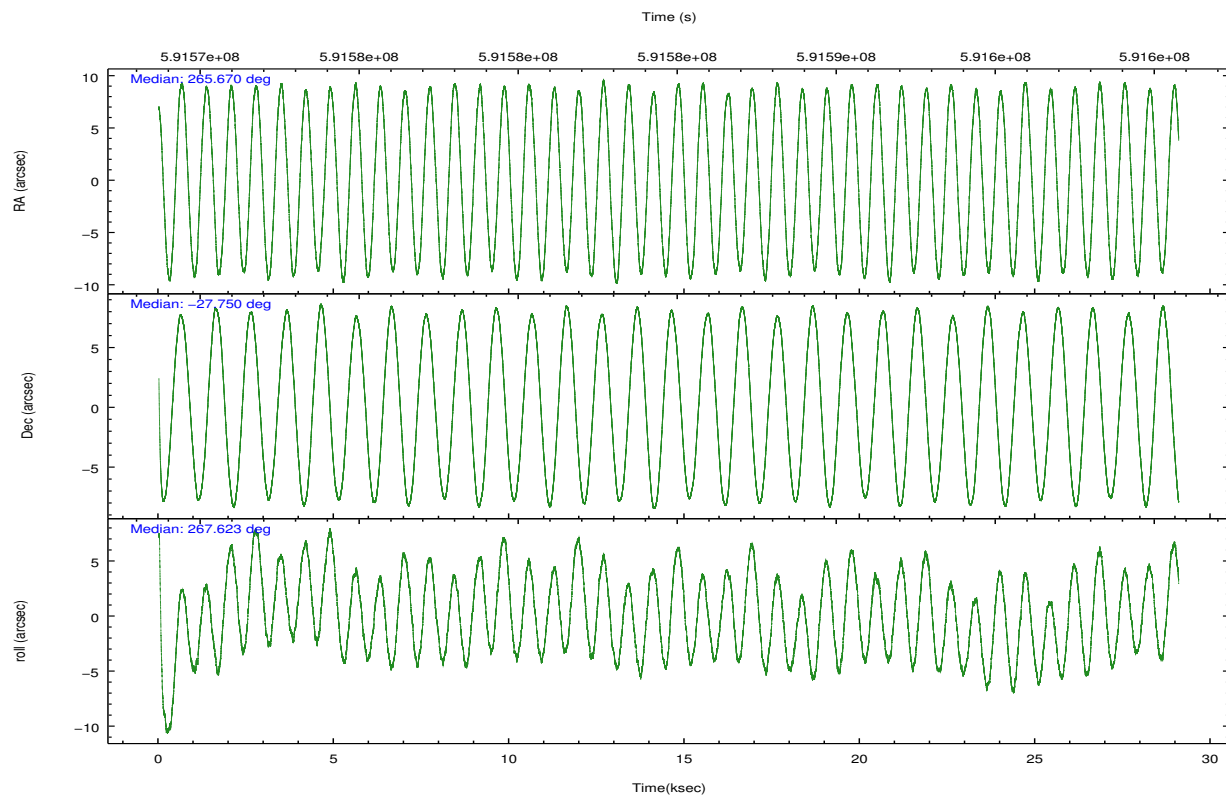
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	HETG	HETG
Data mode	CC33_GRADED	CC33_GRADED
Observation mode	POINTING	POINTING
[deg] Pointing RA	265.655297	265.6700405902945
[deg] Pointing Dec	-27.725626	-27.74977135199024
[deg] Pointing Roll	267.463312	267.626804427493
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	591570284.184000	591569115.3739001
Observation start date	2016-09-29T21:03:36	2016-09-29T20:45:15
[s] Observation end time (MET)	591599284.184000	591600255.38819
Observation end date	2016-09-30T05:06:56	2016-09-30T05:24:15
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	Y
CCD S1 on	Y	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	O2	Y
Number of optional ACIS chips dropped	0	0
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



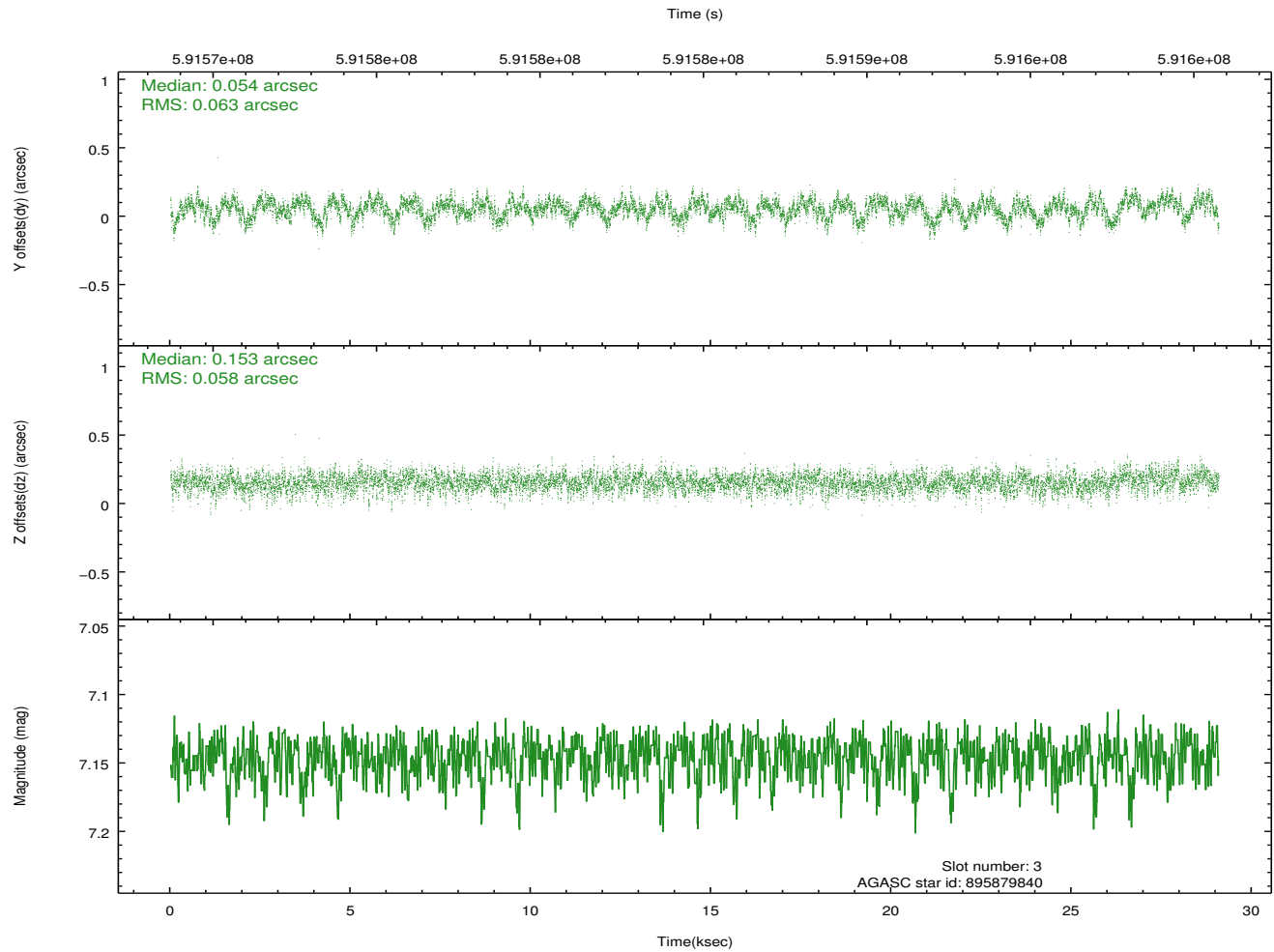
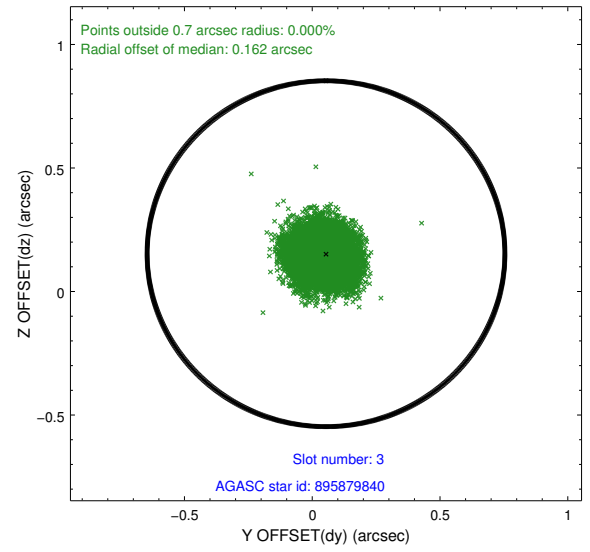
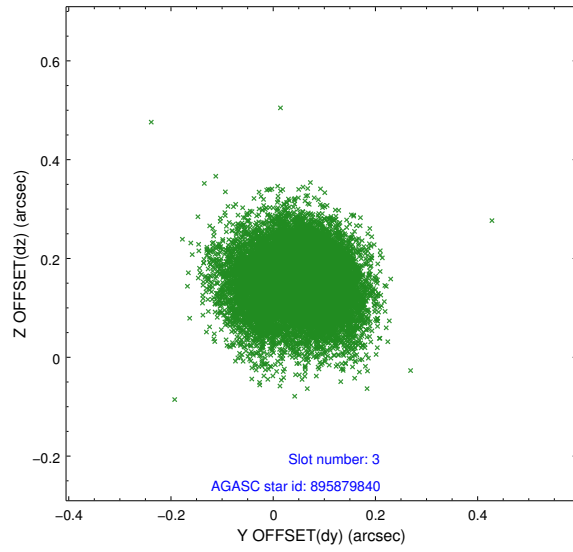


Slot Statistics

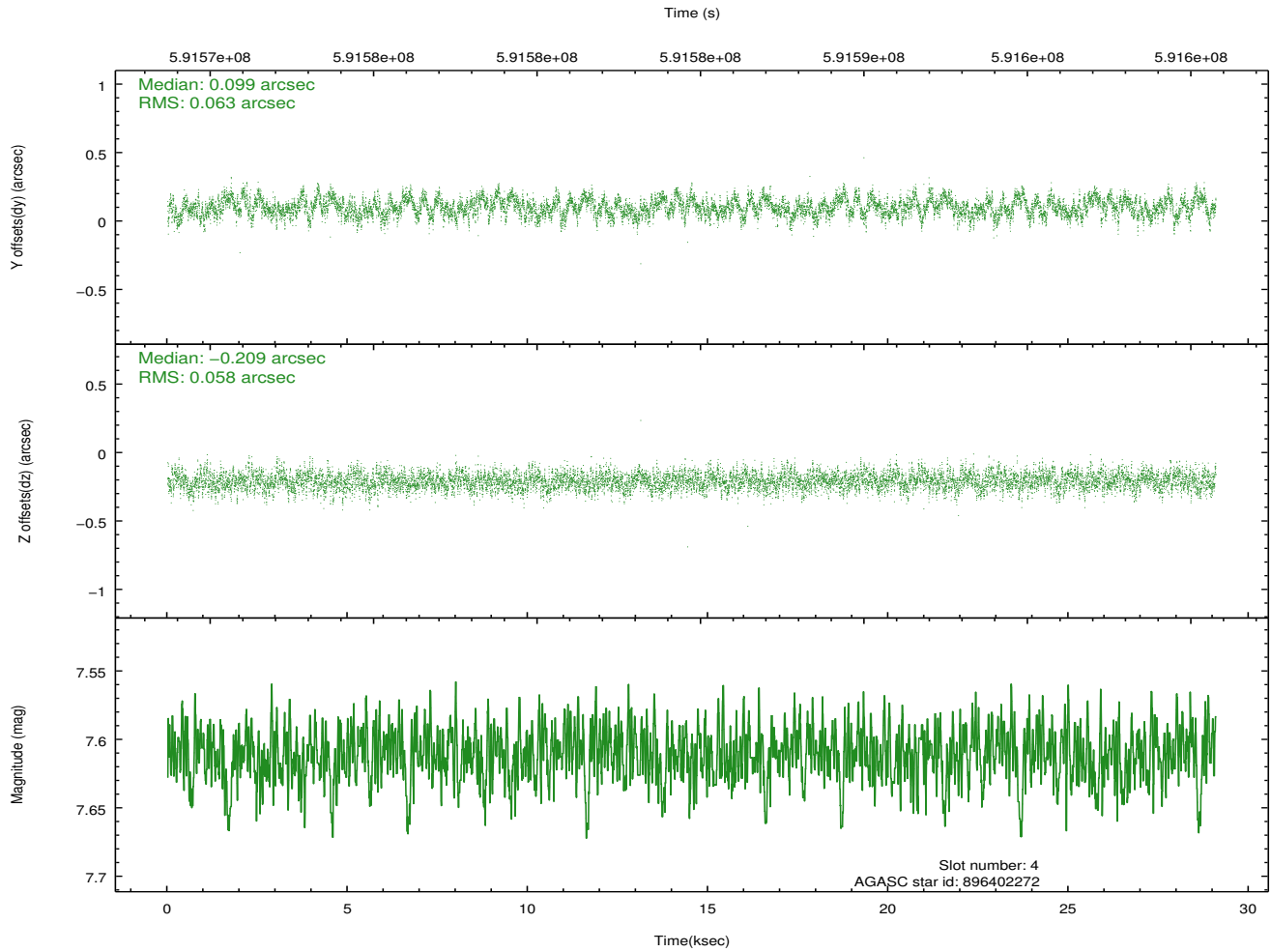
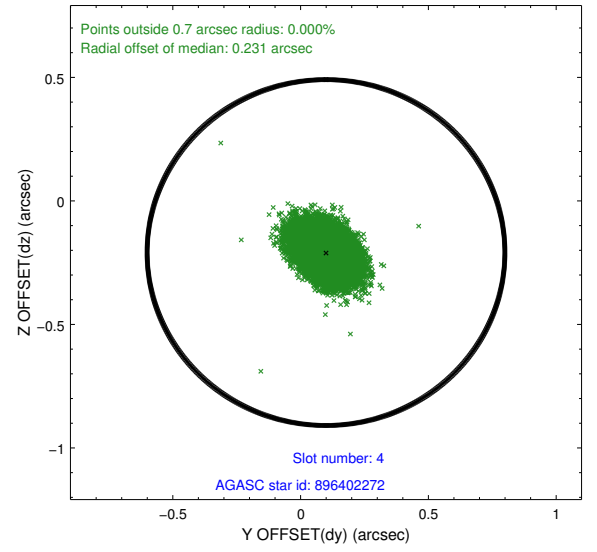
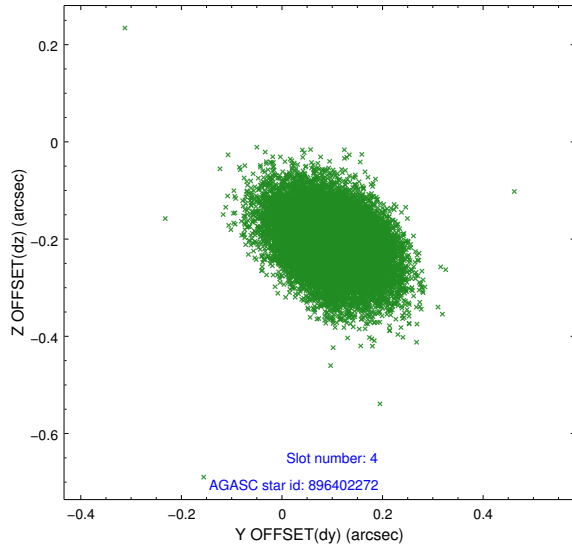
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.09	7093	0.140	-0.118	0.018	0.028	0.000000	0.000000	926.38	-1738.24
1	FID		ACIS-S-5	7.11	7092	-0.284	0.062	0.020	0.034	0.000000	0.000000	-1823.04	159.34
2	FID		ACIS-S-6	7.24	7093	0.124	0.069	0.013	0.035	0.000000	0.000000	391.77	803.45
3	GUIDE	used	895879840	7.15	14183	0.054	0.153	0.092	0.148	265.218397	-27.395778	-1121.37	-1447.88
4	GUIDE	used	896402272	7.61	14183	0.099	-0.209	0.091	0.149	265.637294	-28.313189	2115.97	36.36
5	GUIDE	used	896402656	8.83	14179	0.082	0.019	0.145	0.221	265.739192	-28.230753	1805.47	346.40
6	GUIDE	used	896538248	8.87	14170	0.048	0.126	0.096	0.160	266.238138	-28.240101	1773.25	1929.09
7	GUIDE	used	896538696	6.81	14157	-0.276	-0.087	0.079	0.134	266.298470	-28.325572	2072.87	2132.22

2.4 Star Slots

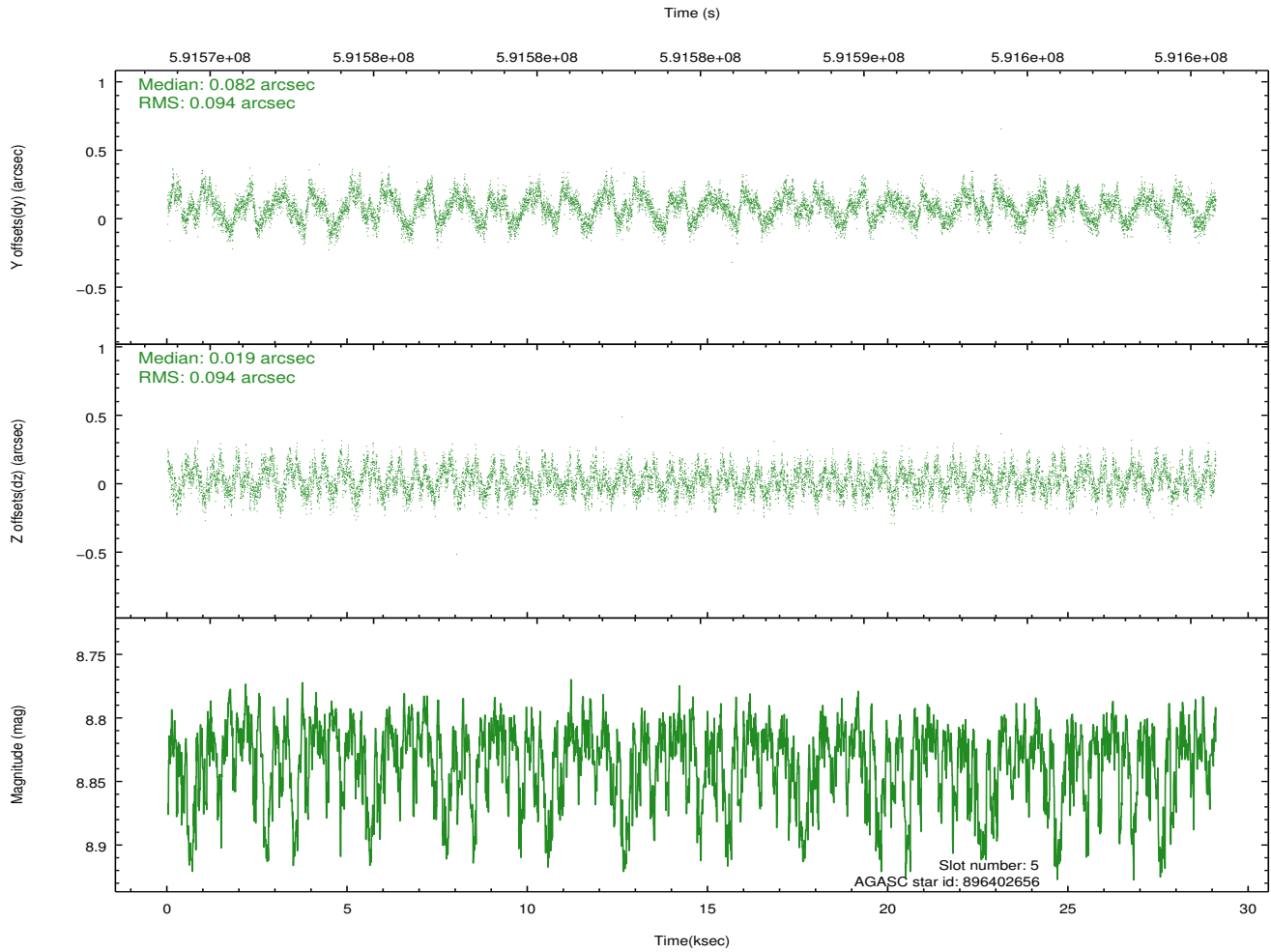
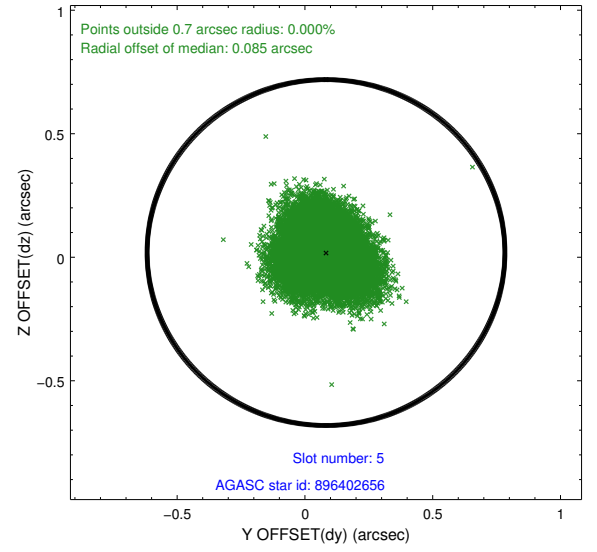
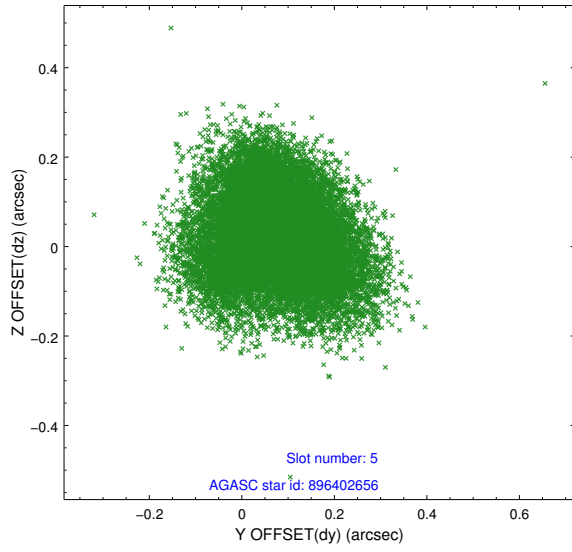
2.4.1 Slot 3



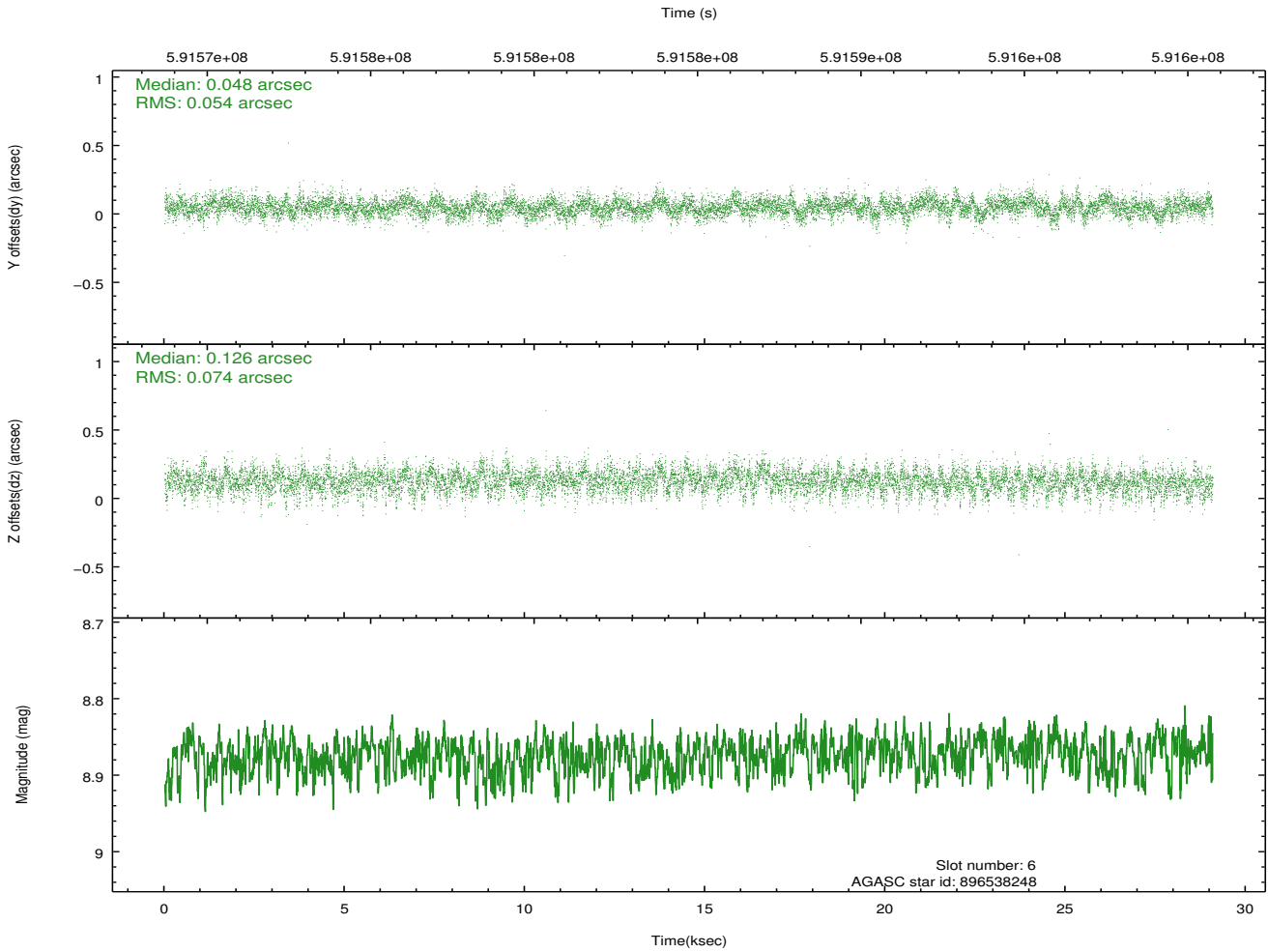
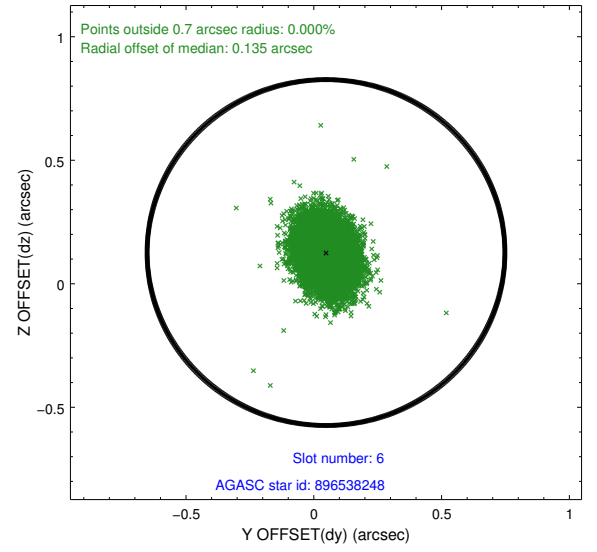
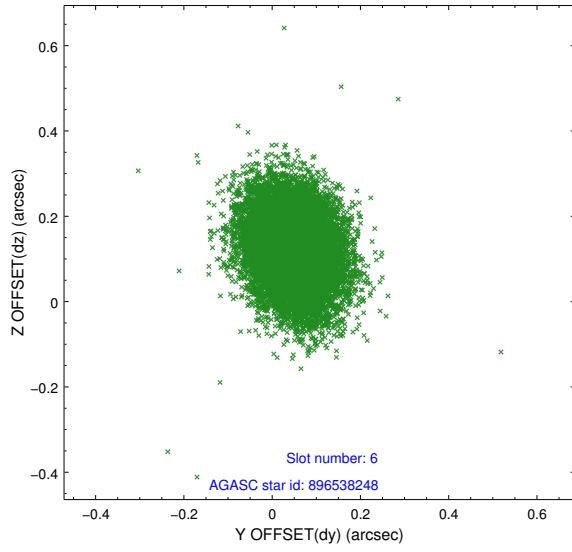
2.4.2 Slot 4



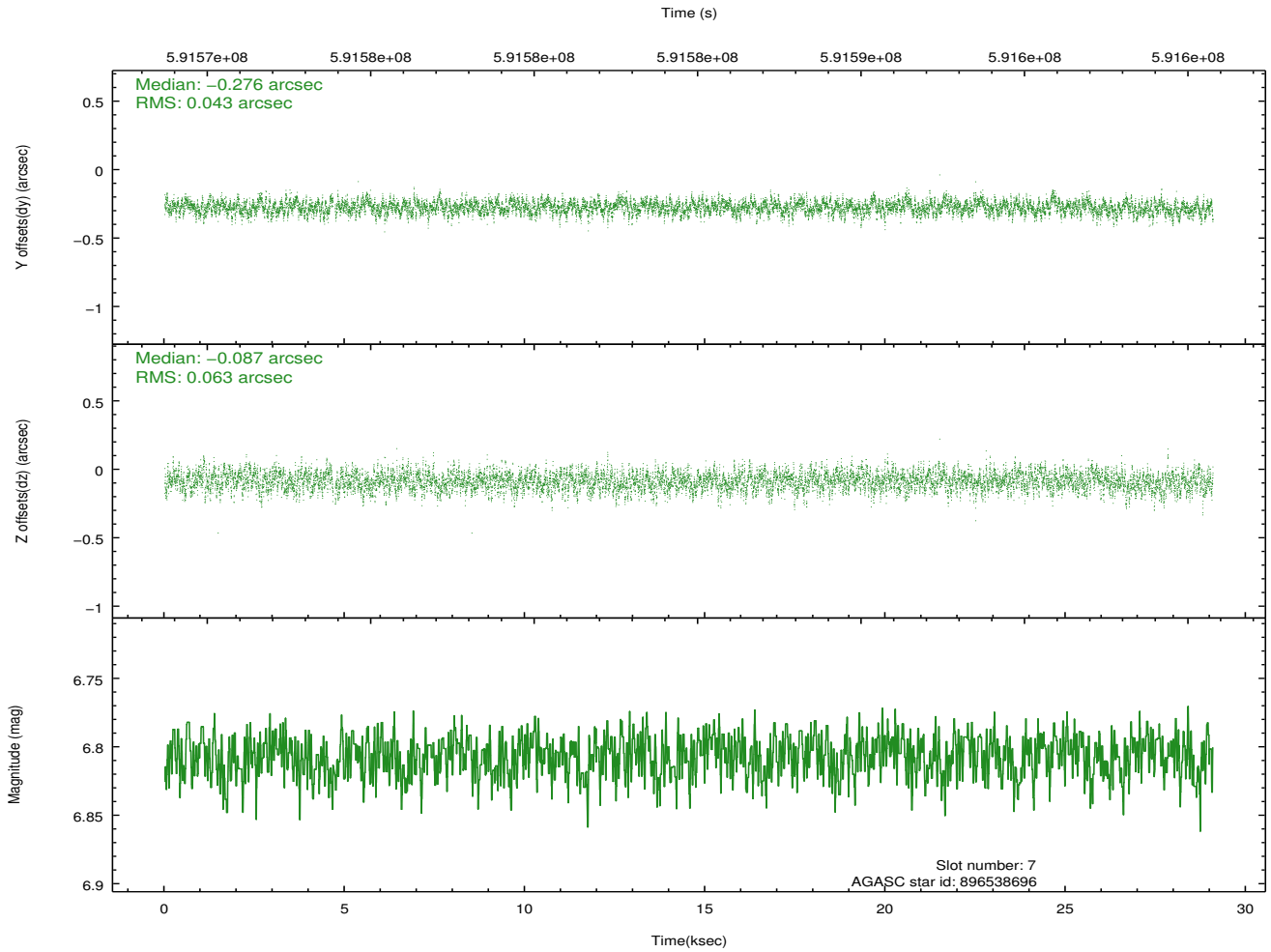
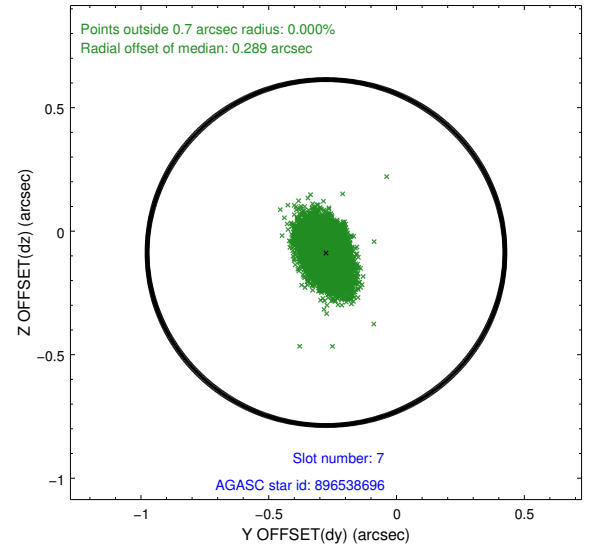
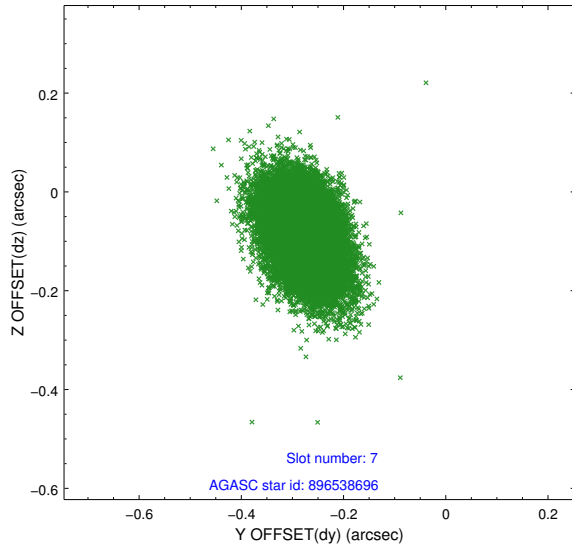
2.4.3 Slot 5



2.4.4 Slot 6

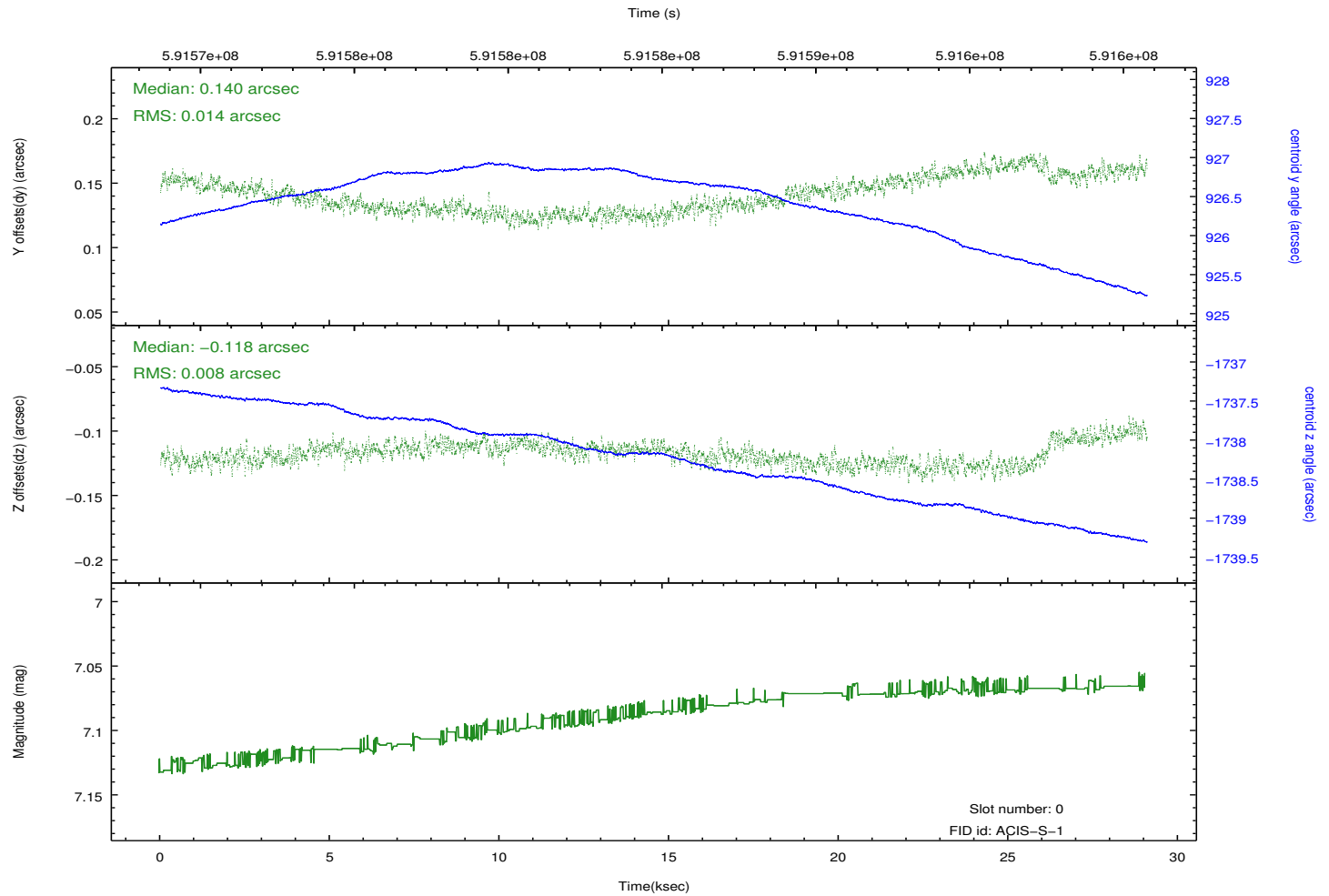
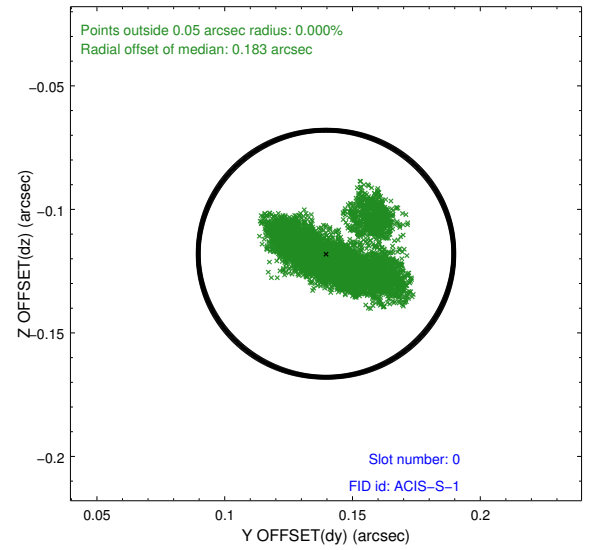
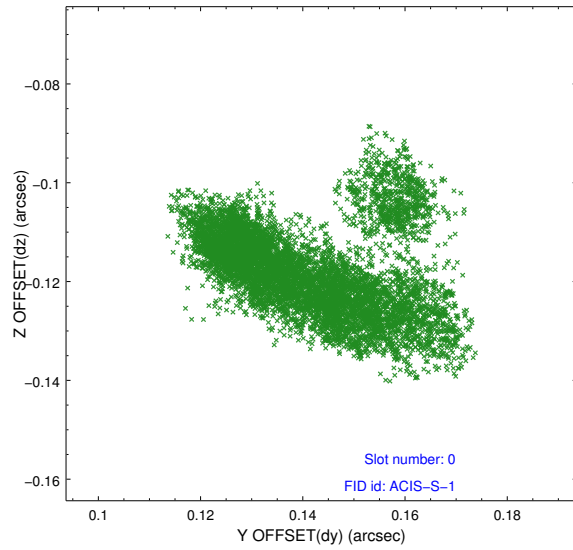


2.4.5 Slot 7

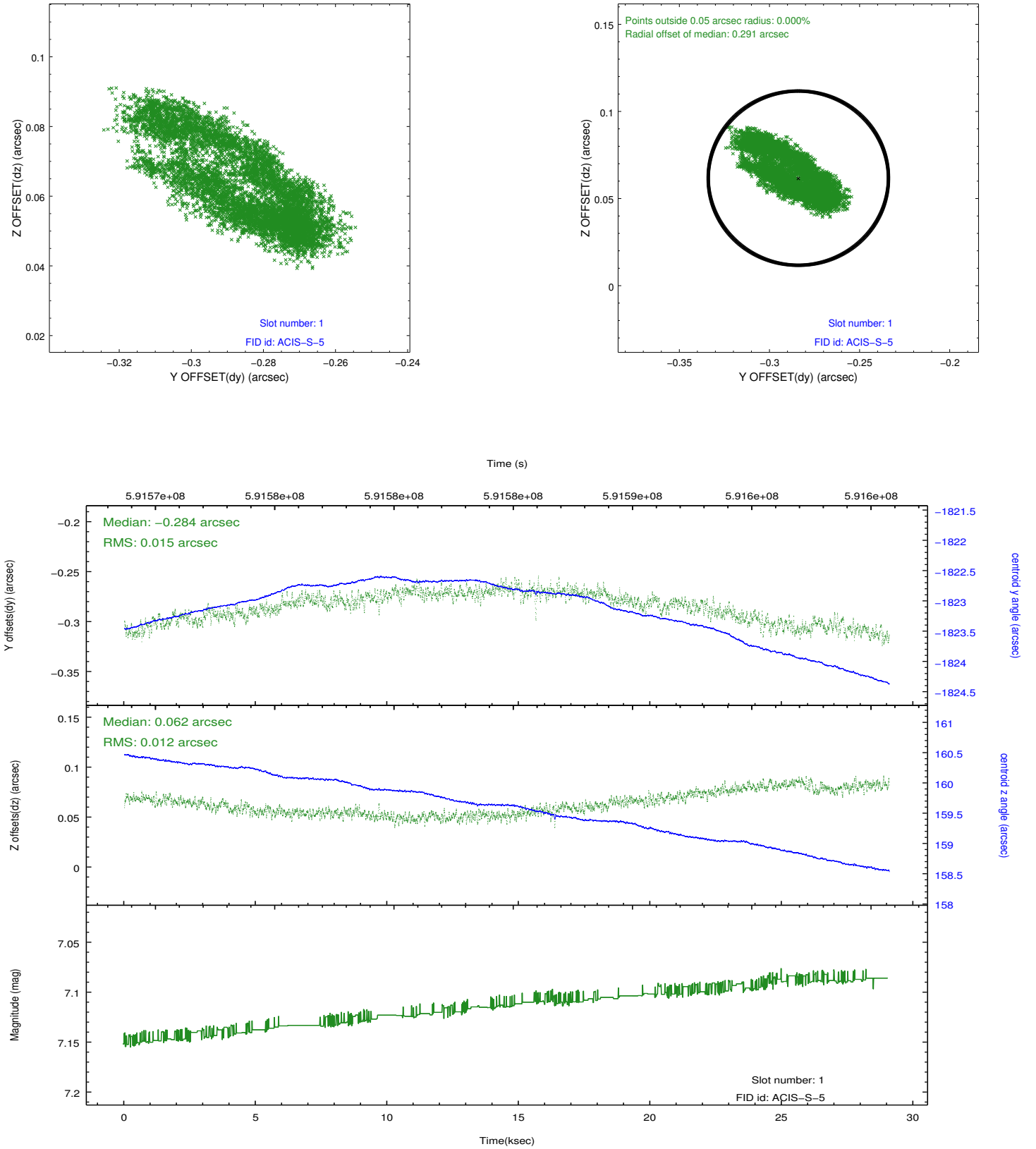


2.5 FID Slots

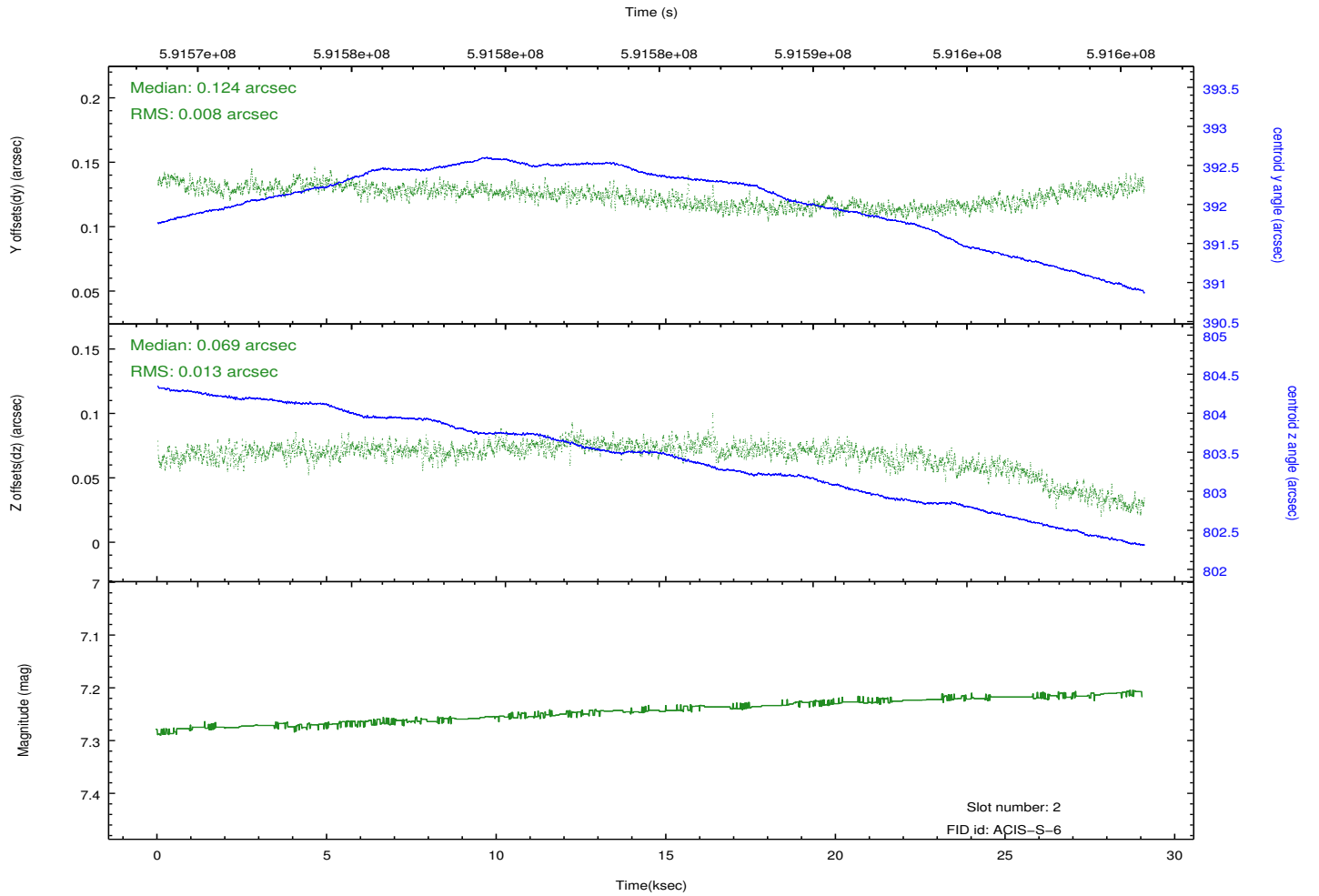
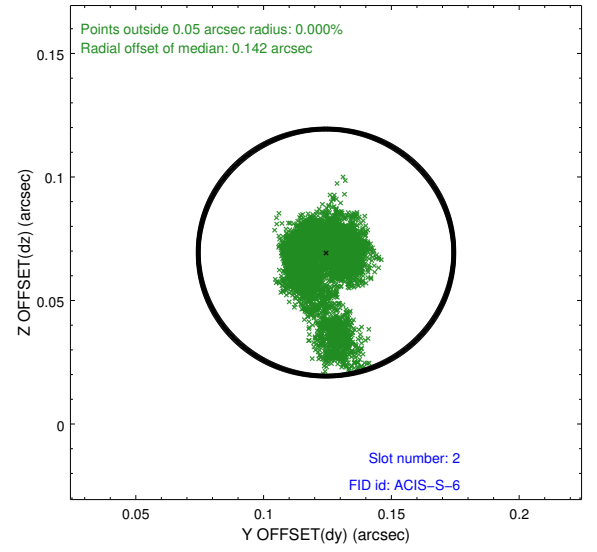
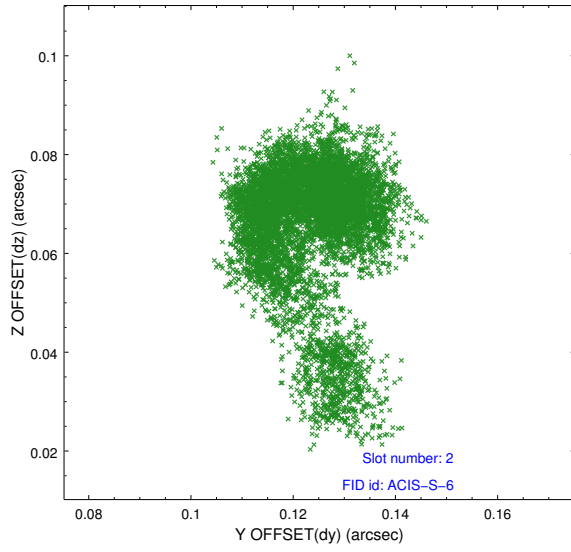
2.5.1 Slot 0



2.5.2 Slot 1

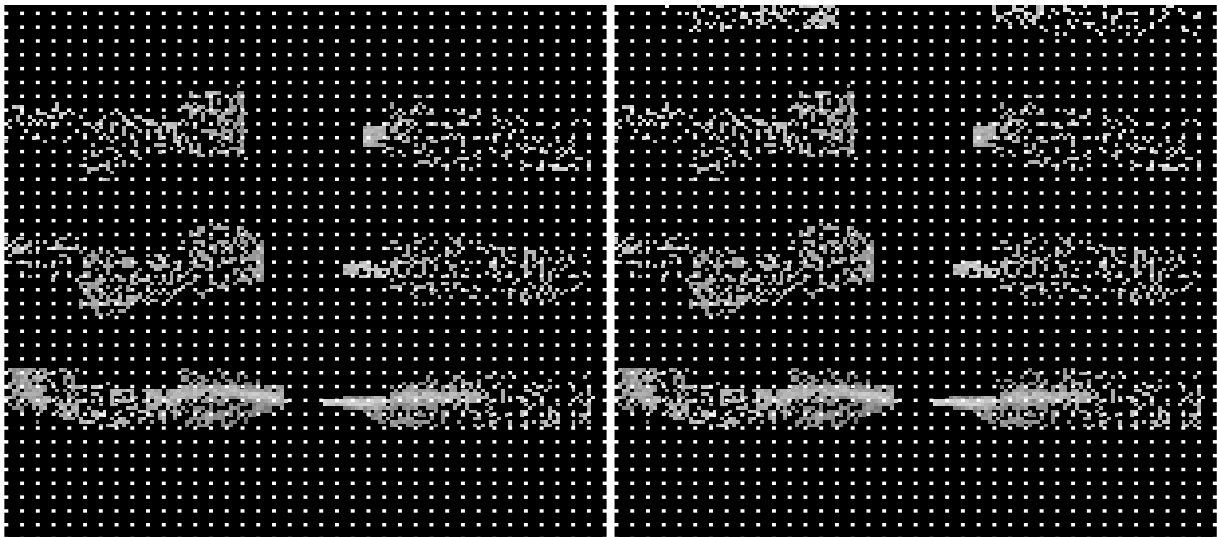


2.5.3 Slot 2



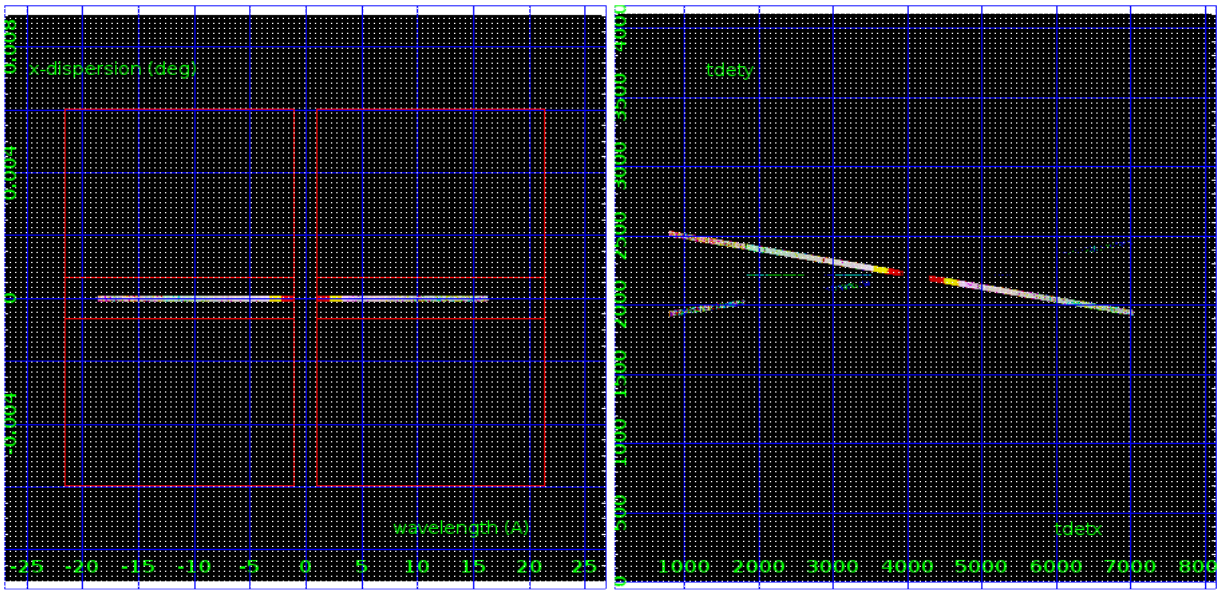
3 Gratings

3.1 HEG Arm



HEG Order Sort 123

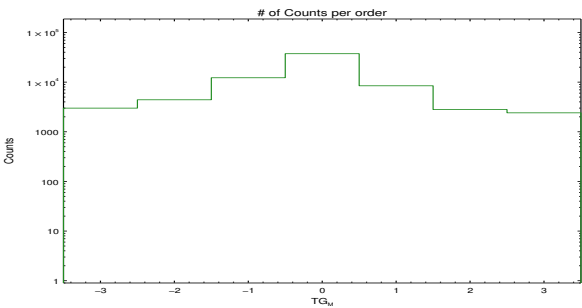
HEG Order Sort ALL

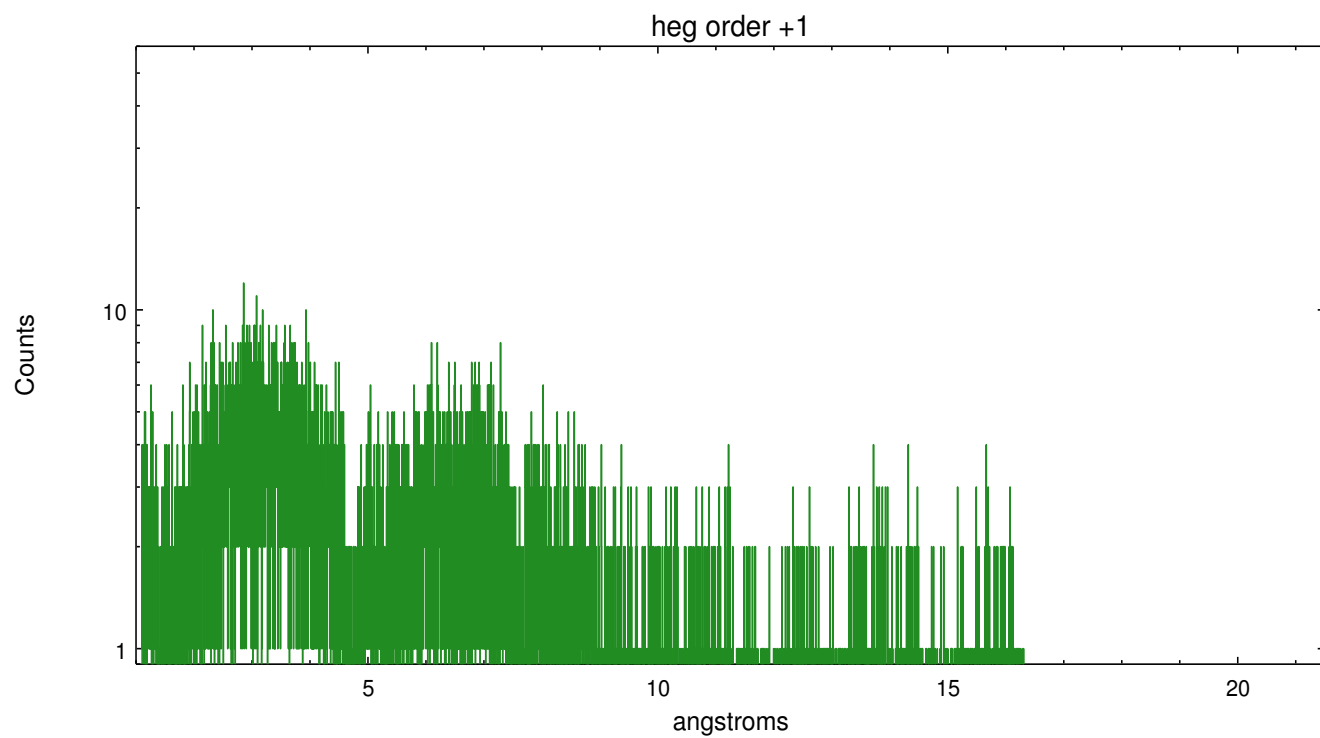
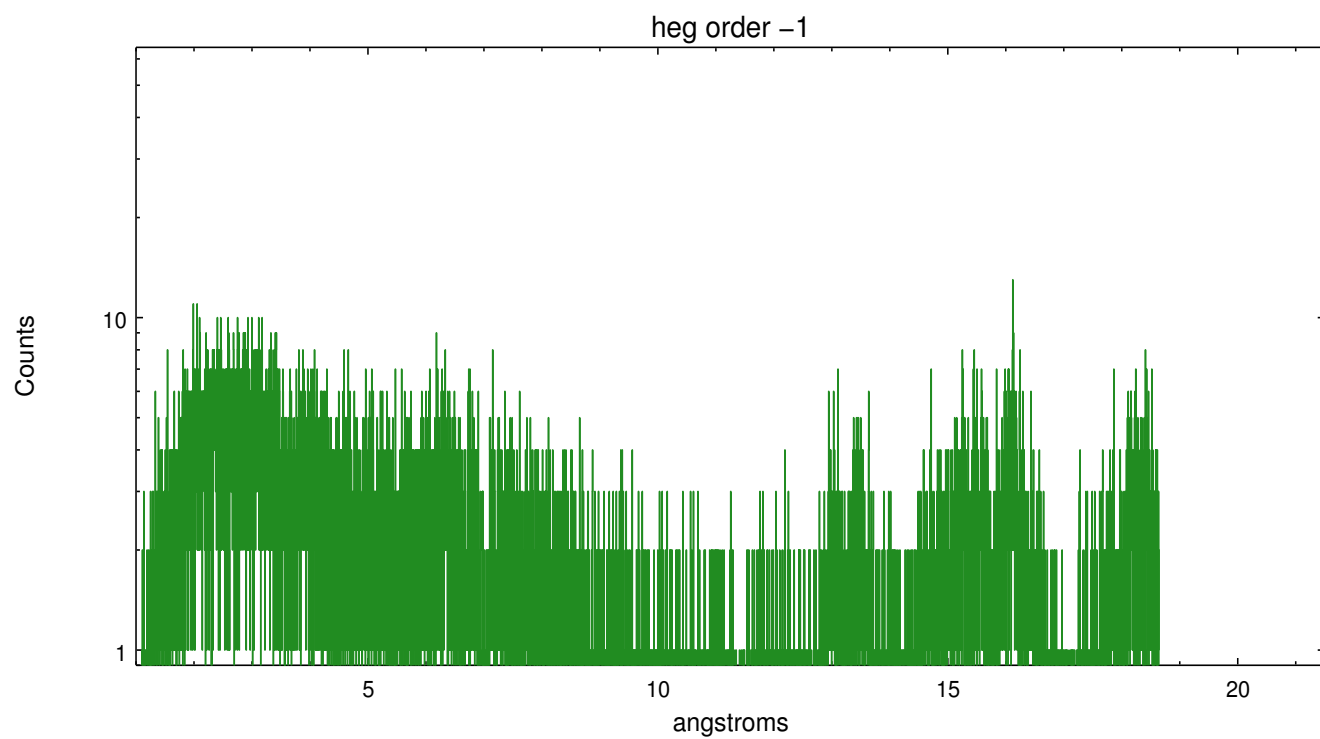


Spot Image HEG

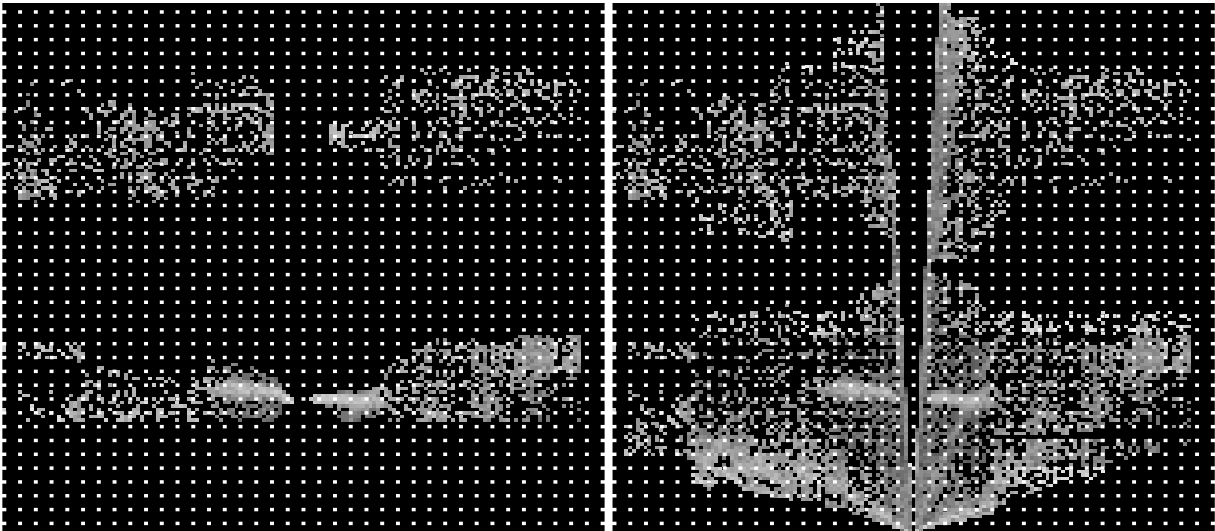
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	2994	4412	12258	37408	8445	2802	2409



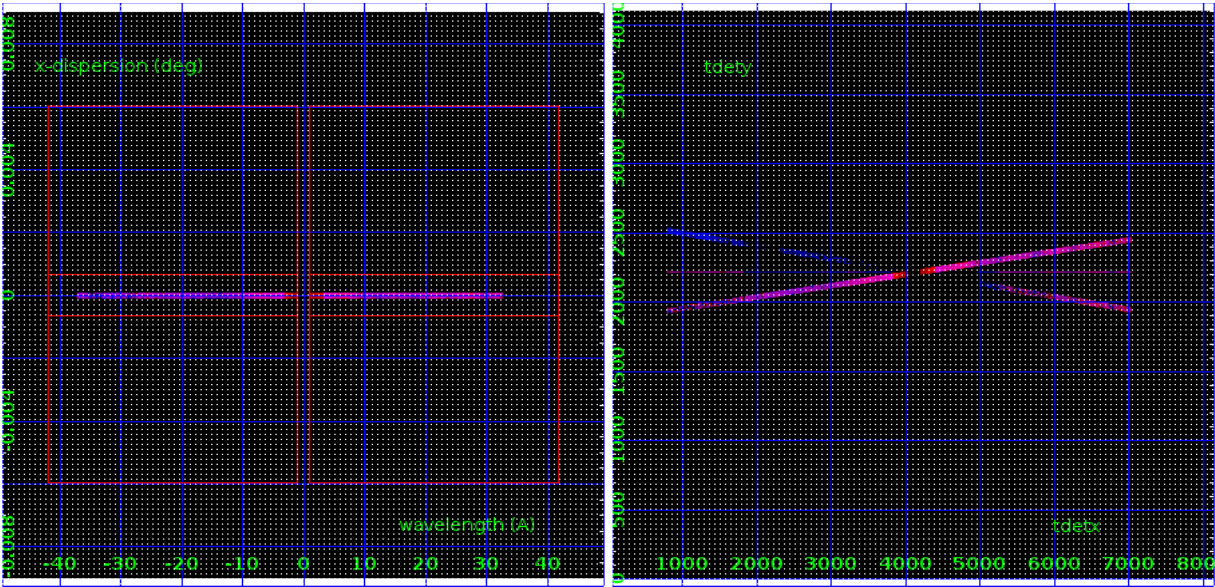


3.2 MEG Arm



MEG Order Sort 123

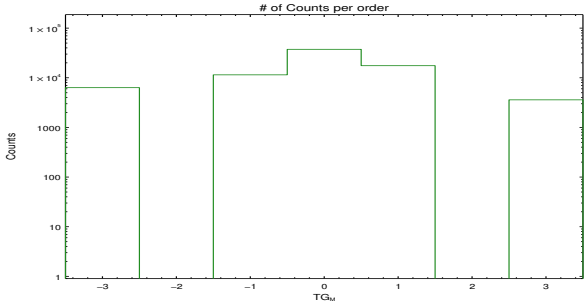
MEG Order Sort ALL

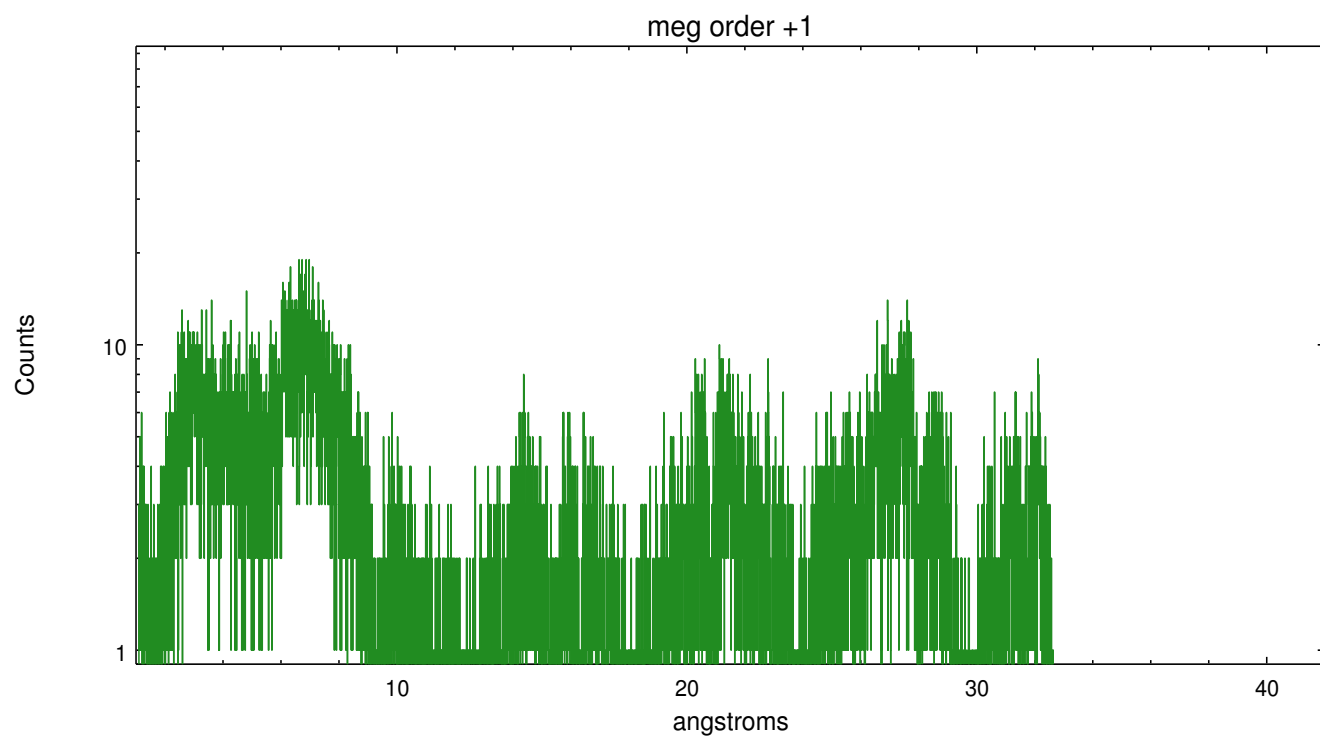
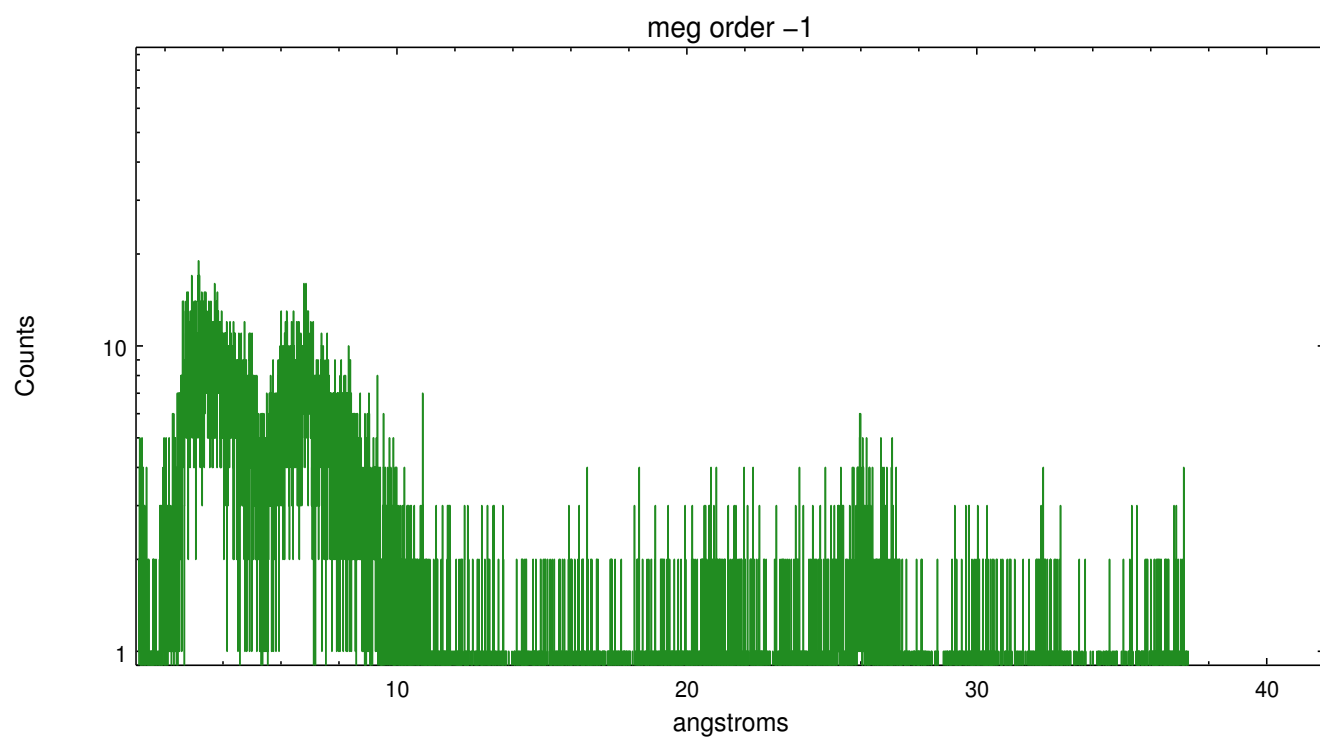


Spot Image MEG

Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	6326	0	11464	37408	17530	0	3594





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2016.10.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.07025

A.2 Comments