

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4367 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Oct 13 2012

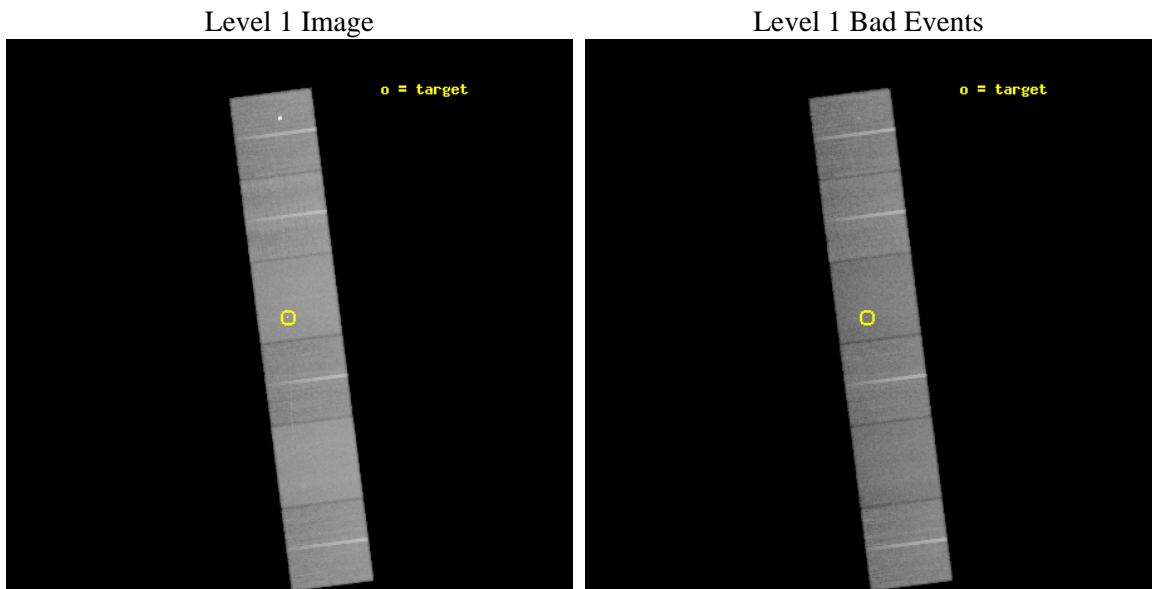
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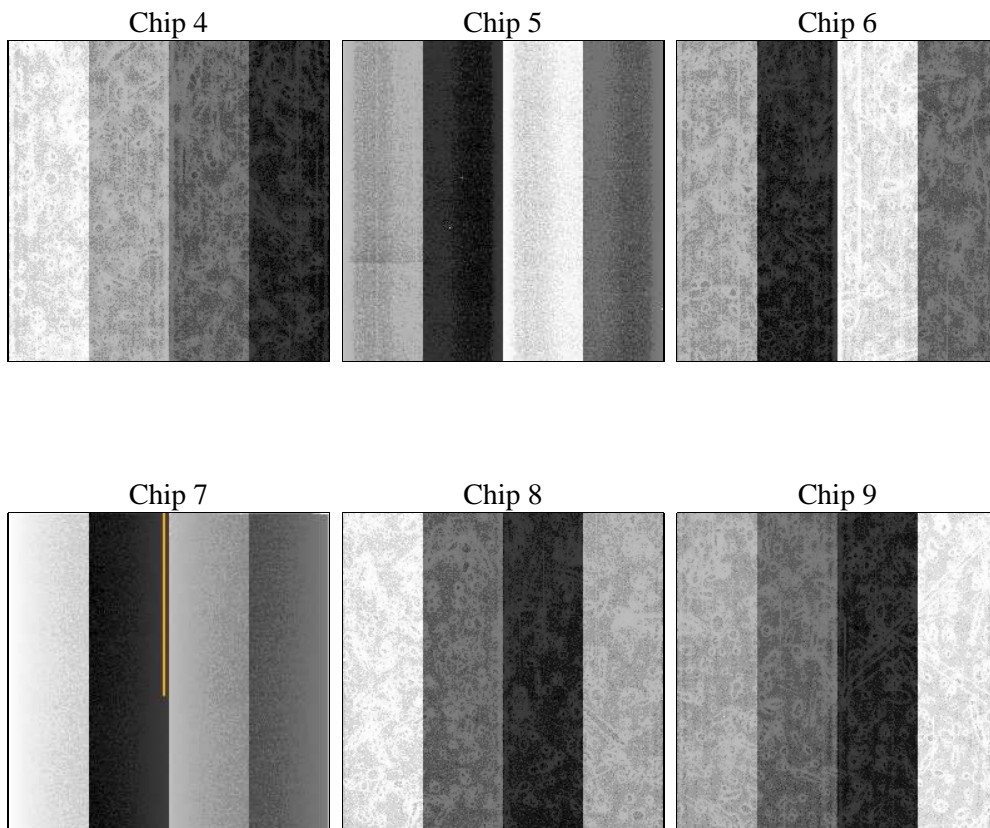
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	49000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	48956.679406941	Sum of GTIs [s]
caldbver	4.5.2	 	ontime4	48956.720446944	Sum of GTIs [s]
date	2012-10-13T06:17:26	Date and time of file creation	ontime5	48956.638366938	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	48953.356366664	Sum of GTIs [s]
			ontime7	48956.679406941	Sum of GTIs [s]
			ontime8	48950.074316591	Sum of GTIs [s]
			ontime9	48953.274286687	Sum of GTIs [s]
			l1events	2171595	Number of level 1 events

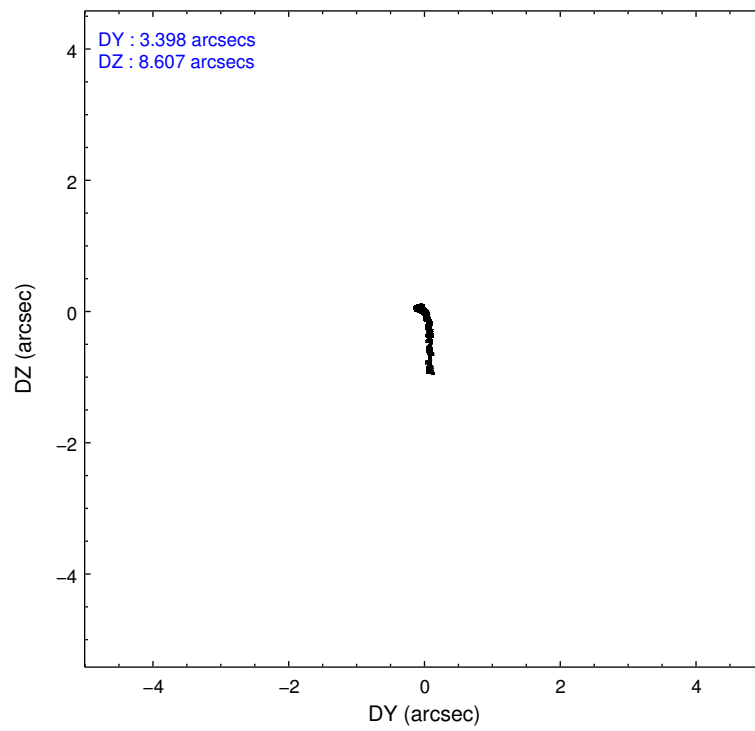
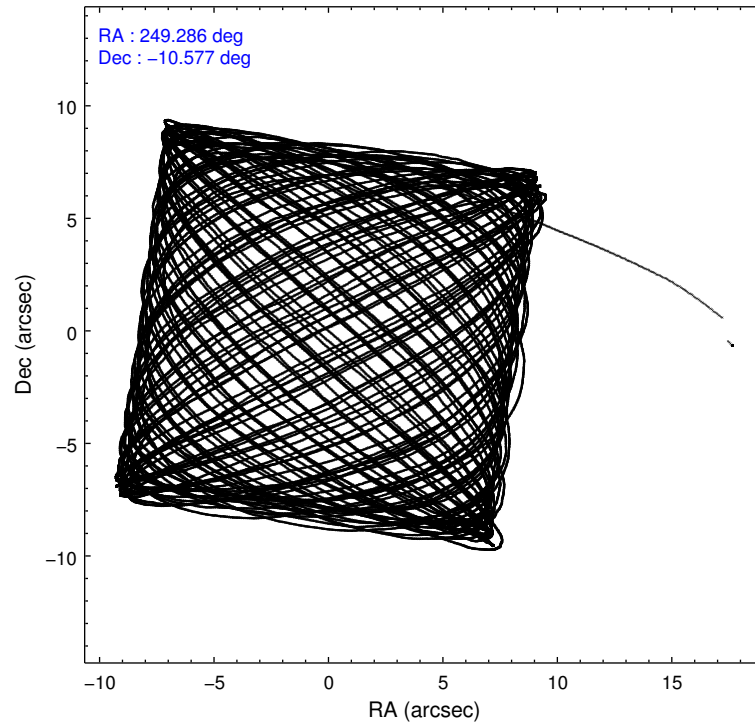
2.1.4 Events

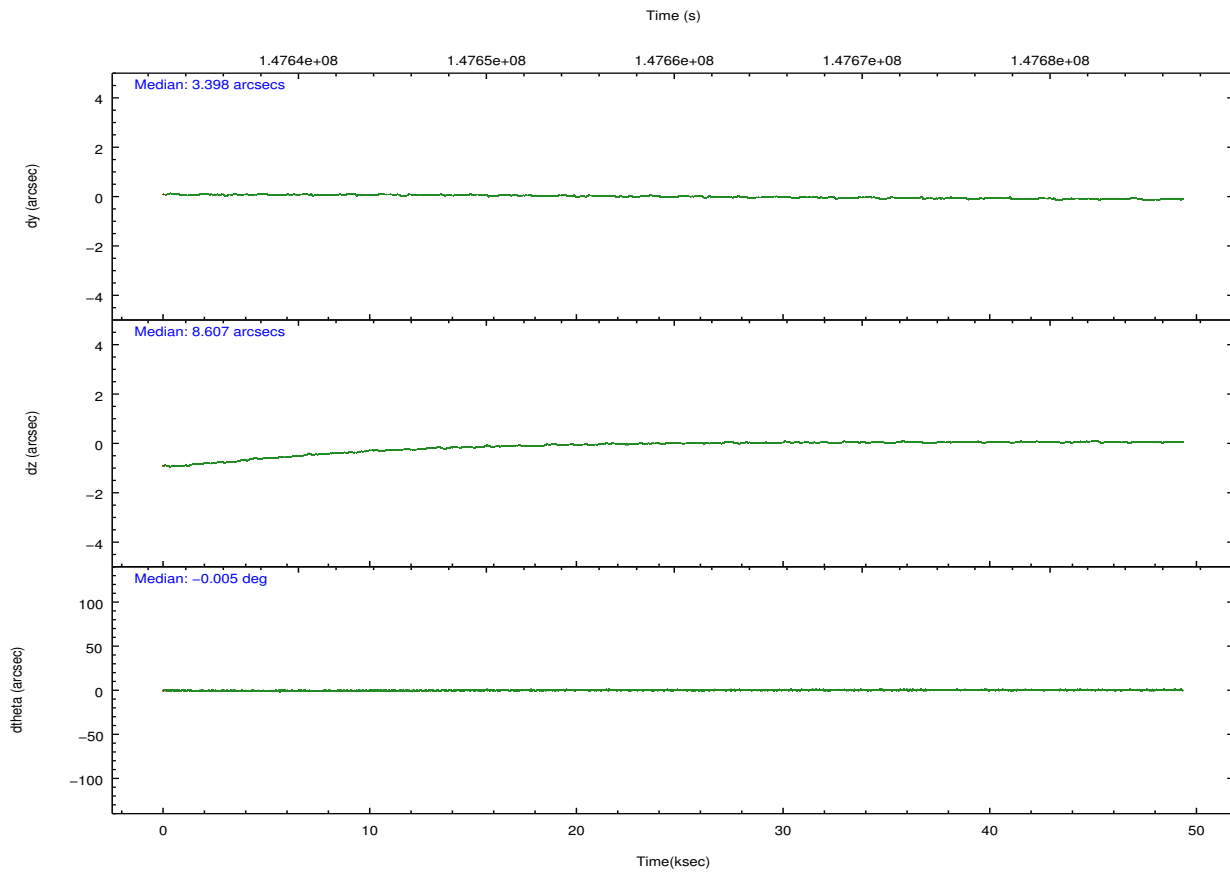
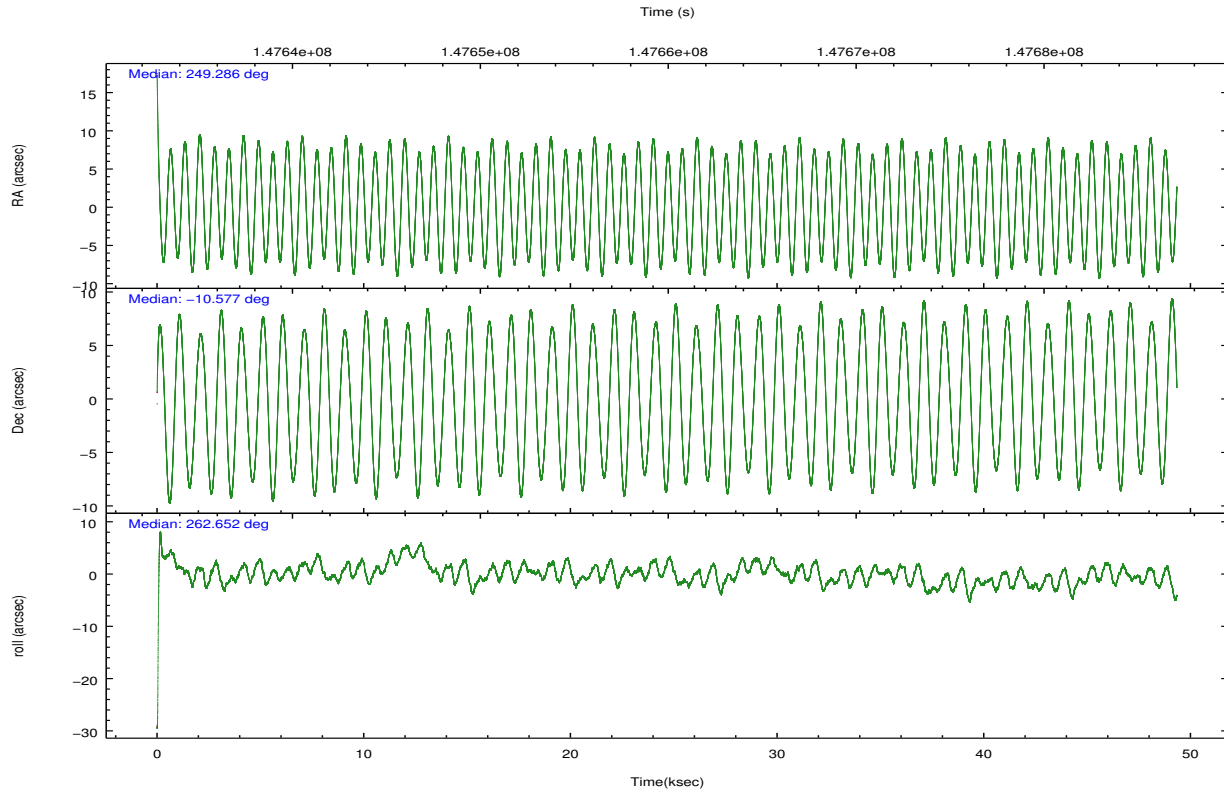
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	336115	424815	304943	398024	386547	321151	grade 0 events	15926	11868	14432	15125	25919	33060
rejected events	299691	236586	269383	232712	306517	266905		4%	2%	4%	3%	6%	10%
rejected %	89%	55%	88%	58%	79%	83%	grade 1 events	264	467	152	375	250	334
								0%	0%	0%	0%	0%	0%
							grade 2 events	7408	56891	7210	32476	16877	6964
								2%	13%	2%	8%	4%	2%
							grade 3 events	3740	7949	3393	14850	8590	3687
								1%	1%	1%	3%	2%	1%
							grade 4 events	3607	7572	3487	14599	8014	3592
								1%	1%	1%	3%	2%	1%
							grade 5 events	12767	32599	13489	37819	17763	14487
								3%	7%	4%	9%	4%	4%
							grade 6 events	5752	103977	7042	88288	20655	6950
								1%	24%	2%	22%	5%	2%
							grade 7 events	286651	203492	255738	194492	288479	252077
								85%	47%	83%	48%	74%	78%

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	249.275207	249.2862010005027	Subarray requested	NONE	NONE
[deg] Pointing Dec	-10.551465	-10.57644731285358	Alternating exposures requested	N	N
[deg] Pointing Roll	262.495443	262.6540766045624	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-187.132523	-187.1228876879999			
[mm] SIM translation stage offset	-3	-3.009634895007935			
[s] Observation start time (MET)	147635610.184000	147634577.09623			
Observation start date	2002-09-05T17:52:26	2002-09-05T17:36:17			
[s] Observation end time (MET)	147684610.184000	147685173.66082			
Observation end date	2002-09-06T07:29:06	2002-09-06T07:39:33			
Read mode	TIMED	TIMED			

2.3 Aspect



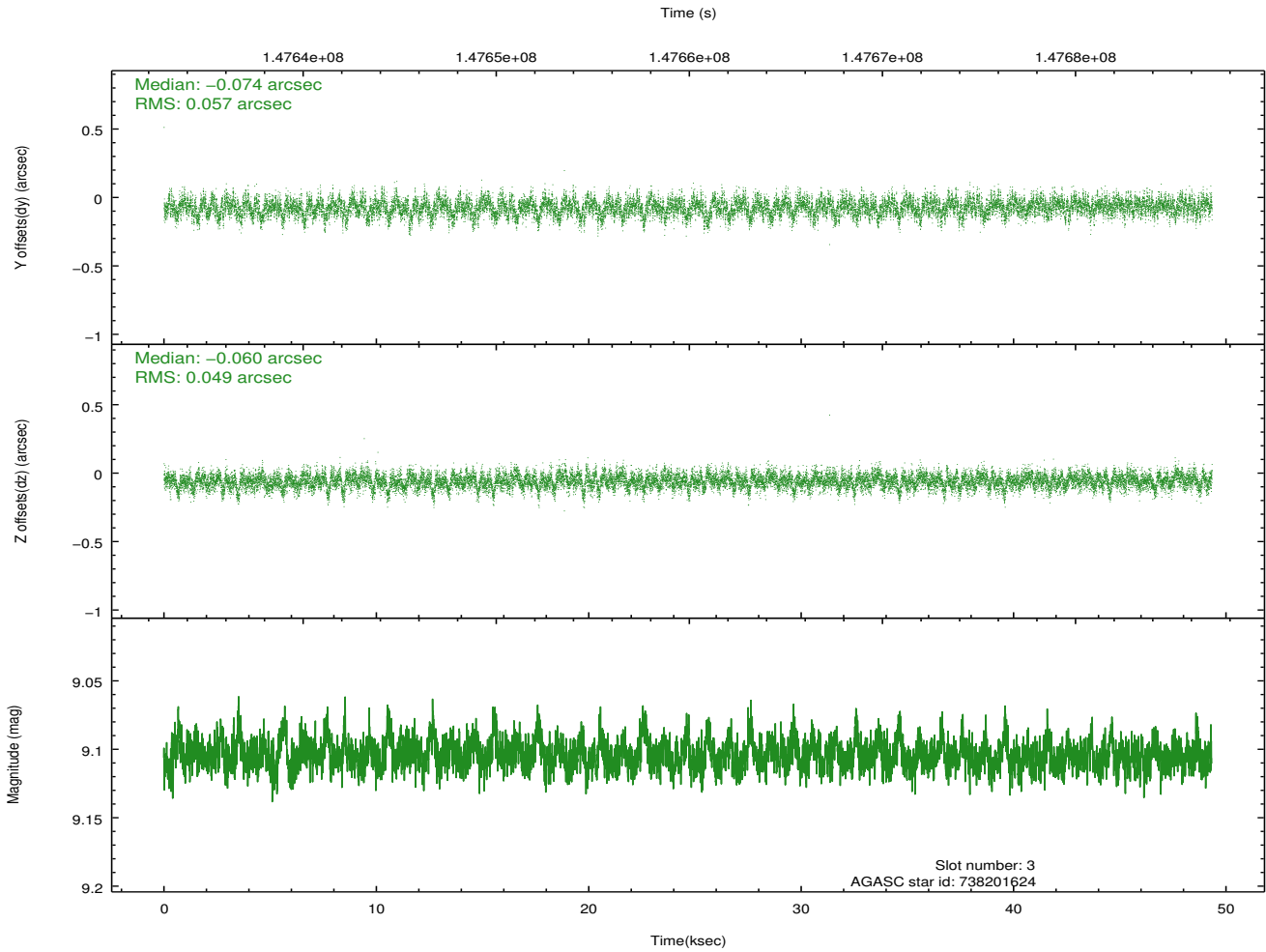
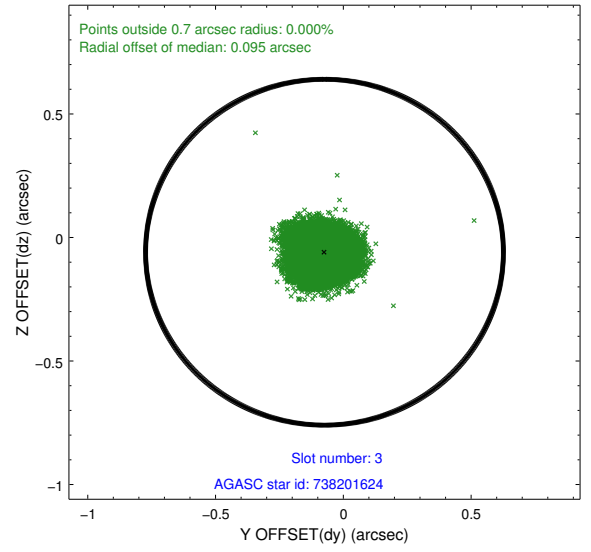
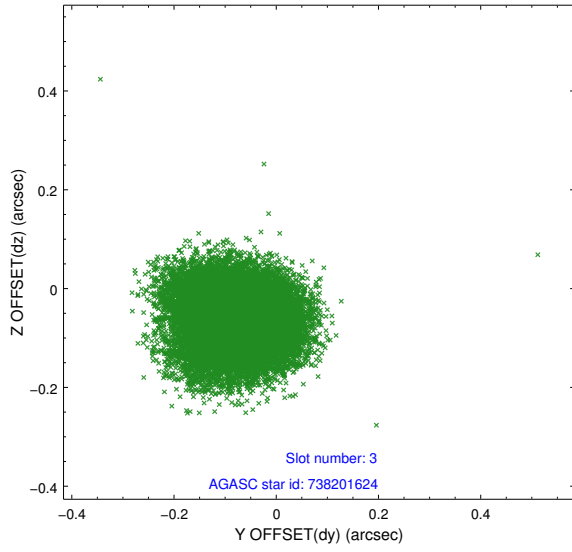


Slot Statistics

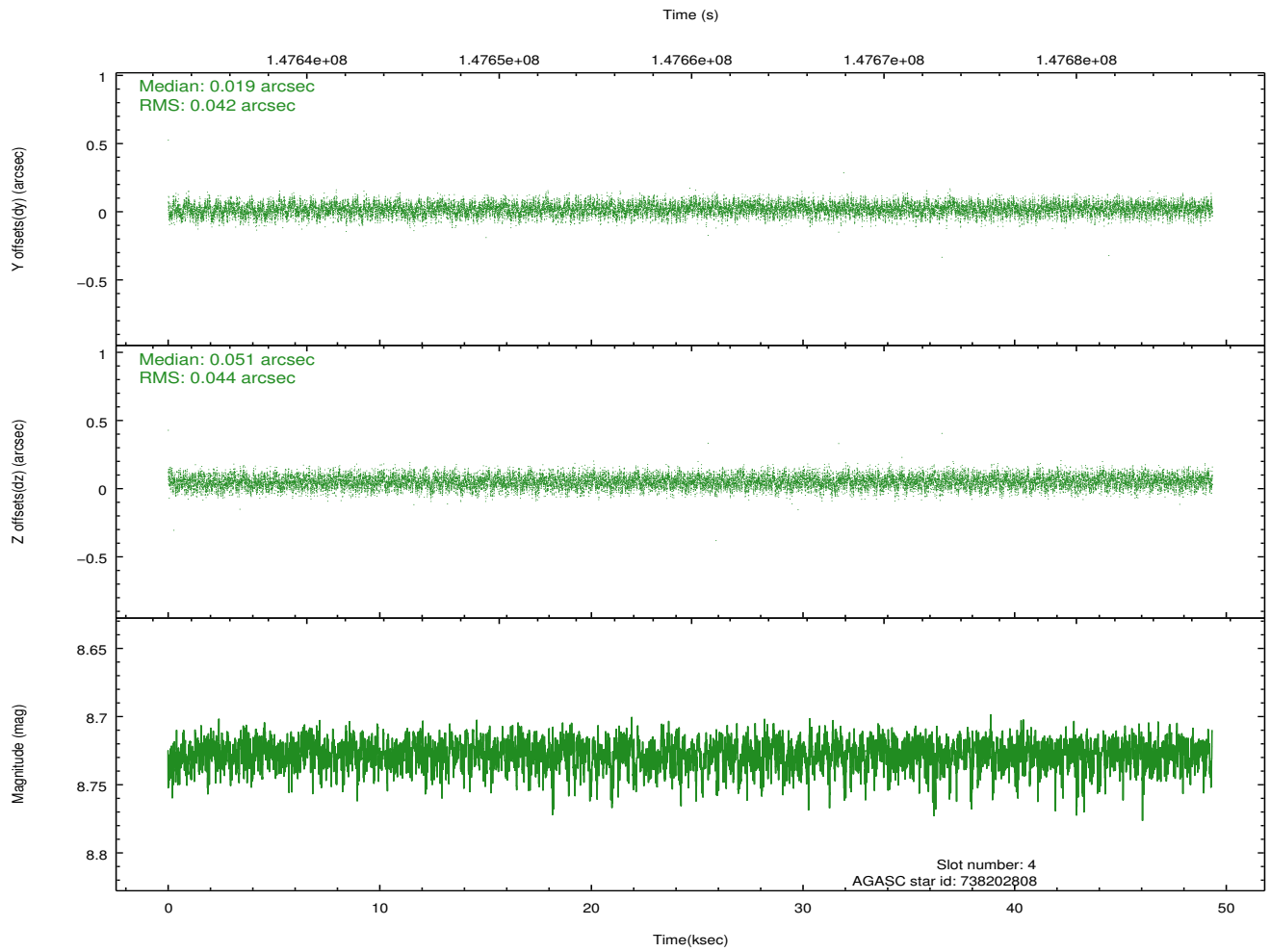
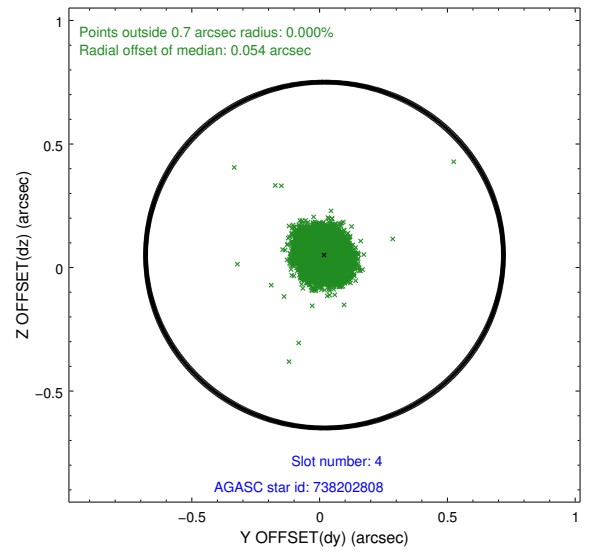
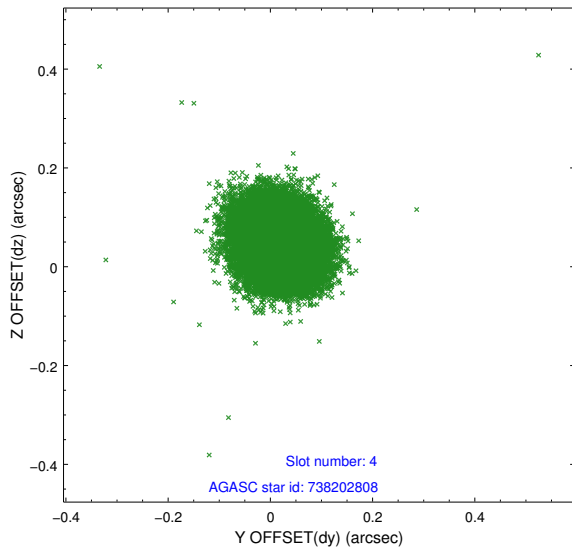
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	12033	-0.060	-0.028	0.008	0.012	0.000000	0.000000	-755.86	-1791.85
1	FID	ACIS-S-4	7.20	12032	0.040	0.036	0.008	0.014	0.000000	0.000000	2157.48	116.76
2	FID	ACIS-S-5	7.23	12035	-0.011	0.000	0.007	0.012	0.000000	0.000000	-1808.72	110.30
3	GUIDE	738201624	9.10	24061	-0.074	-0.060	0.079	0.132	249.568343	-10.190982	-1422.41	860.92
4	GUIDE	738202808	8.73	24062	0.019	0.051	0.066	0.104	249.656095	-10.848137	883.23	1475.57
5	GUIDE	738205328	9.26	24060	0.153	-0.065	0.087	0.140	249.444382	-11.182115	2172.66	889.66
6	GUIDE	738203736	7.57	24069	-0.133	0.036	0.058	0.092	249.746198	-10.264513	-1241.39	1520.05
7	GUIDE	738202792	9.87	24041	0.036	0.038	0.108	0.173	249.110436	-10.037946	-1756.95	-819.76

2.4 Star Slots

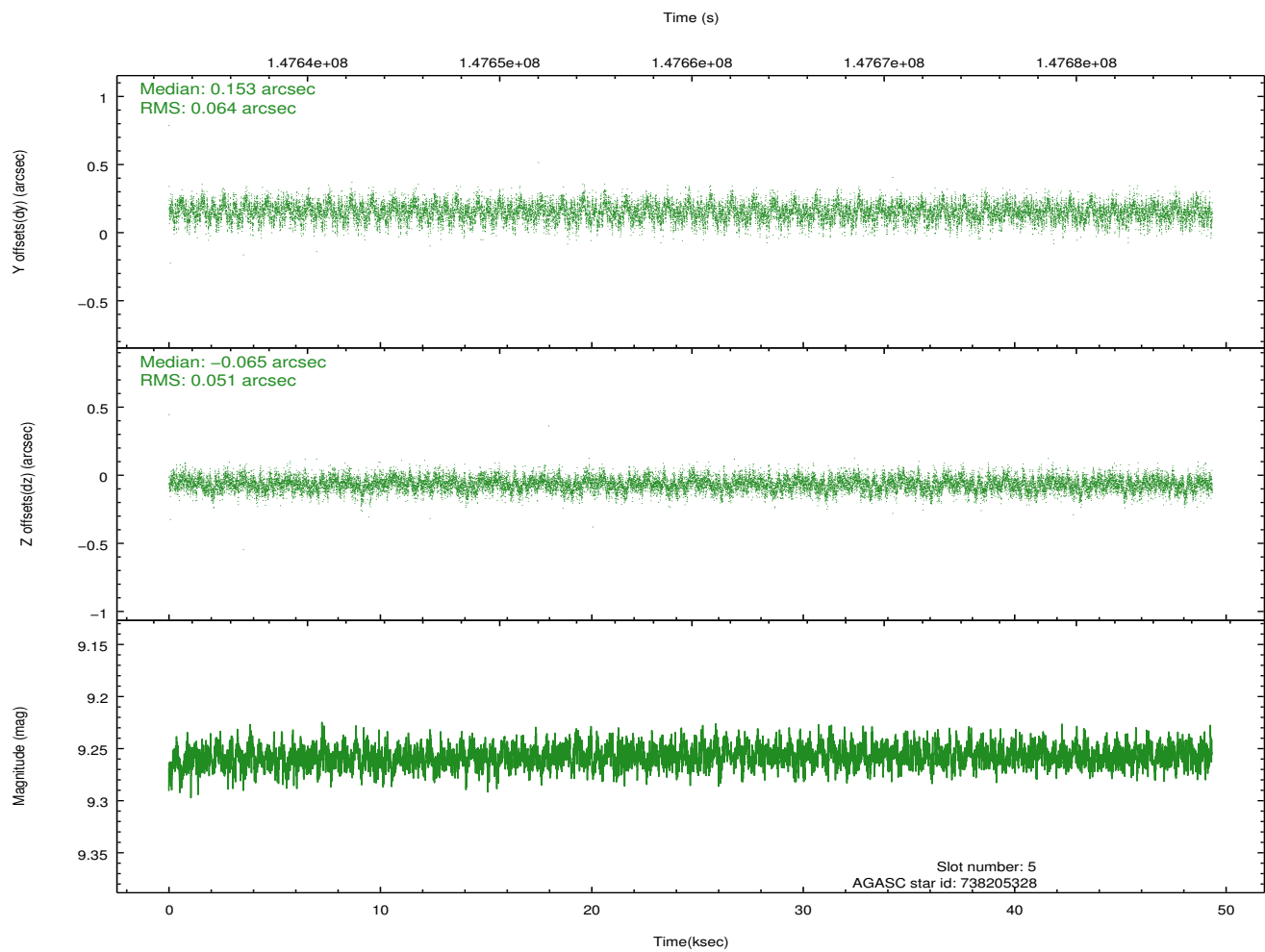
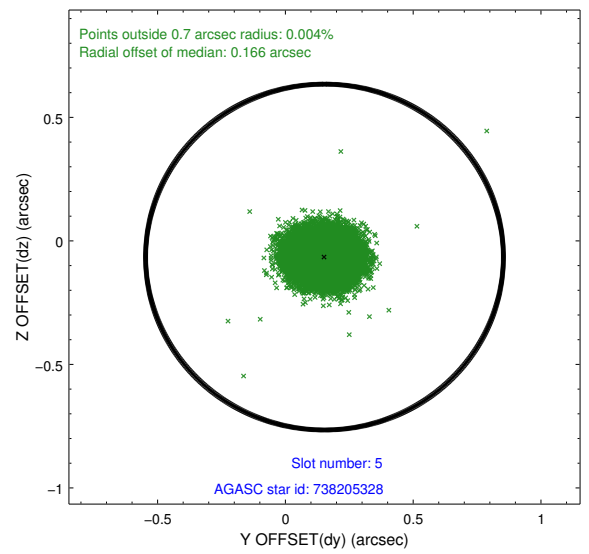
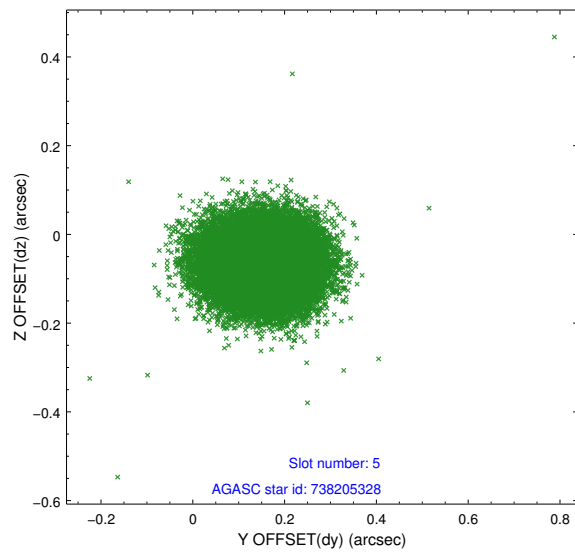
2.4.1 Slot 3



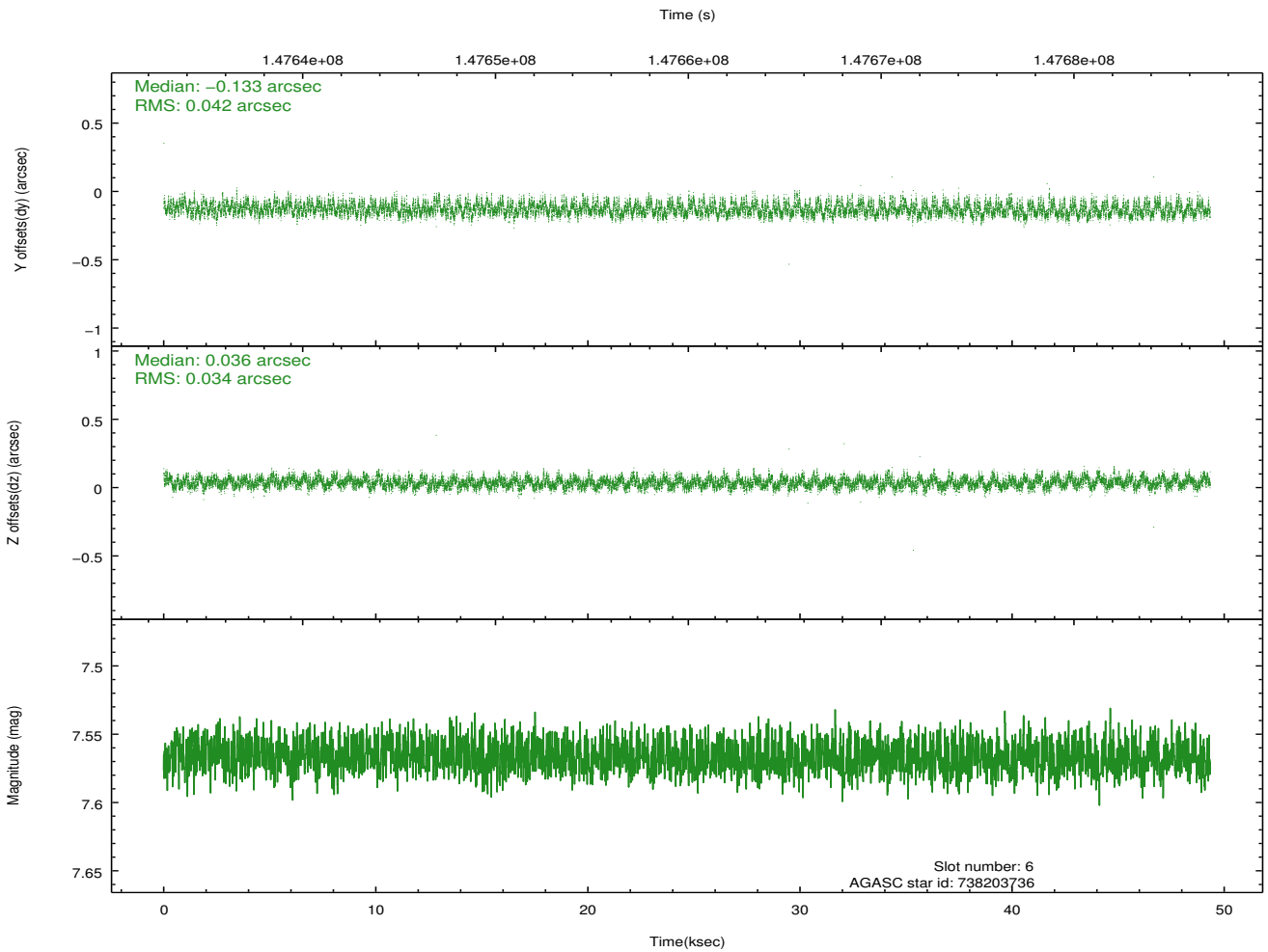
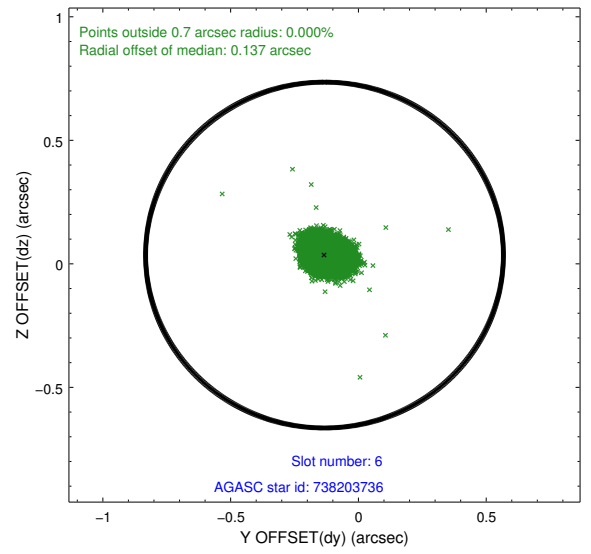
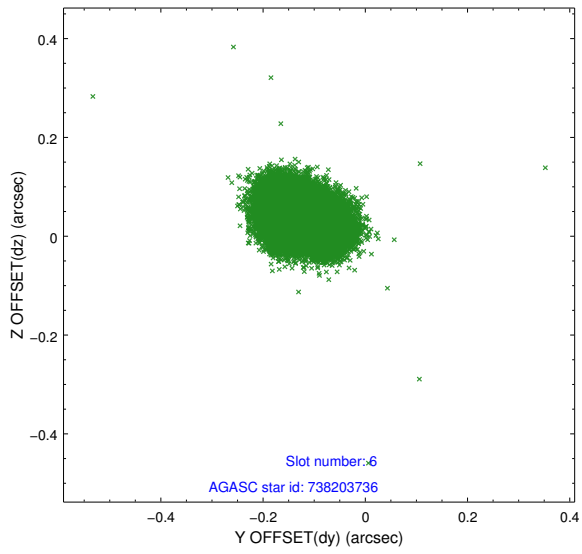
2.4.2 Slot 4



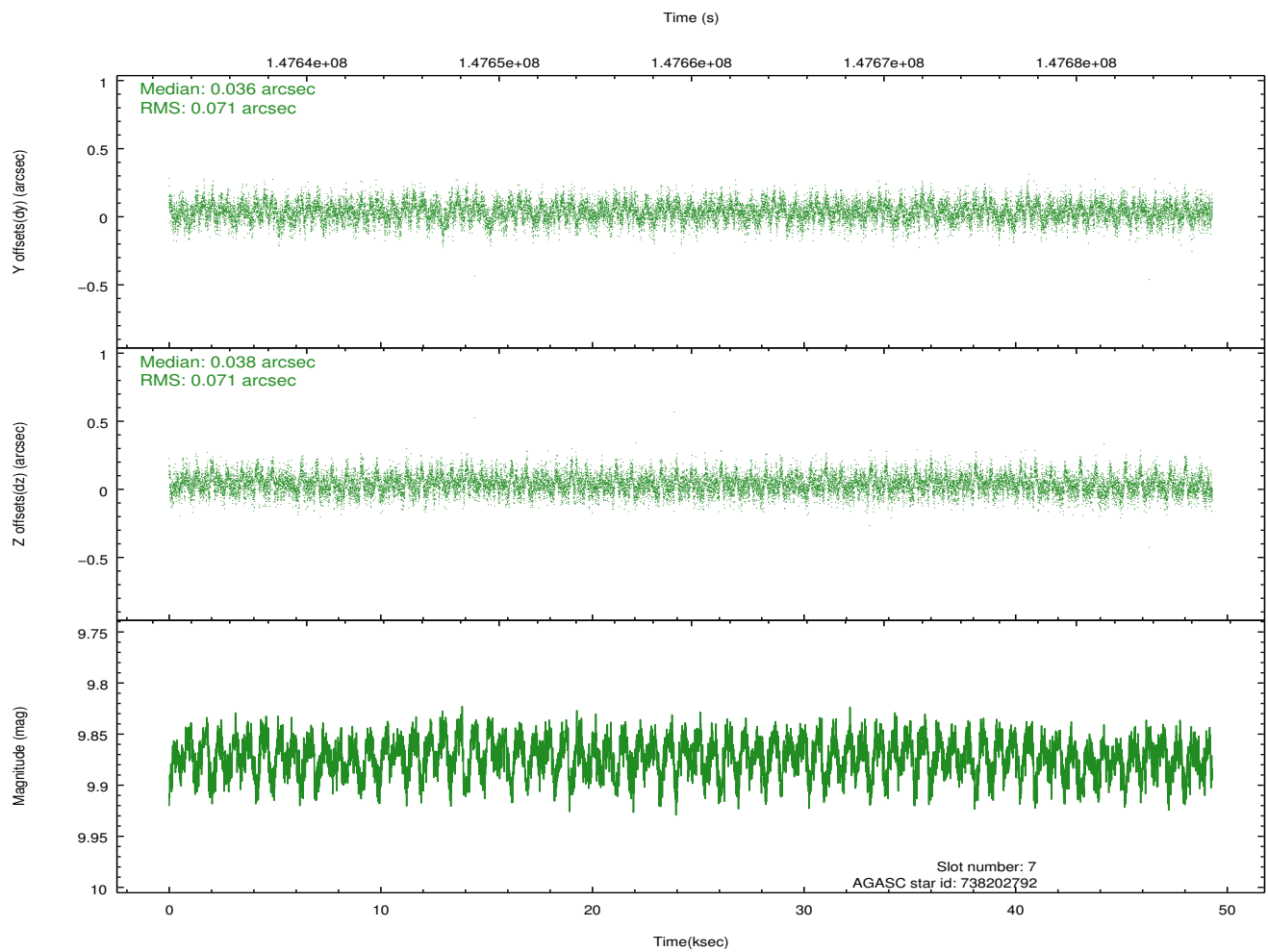
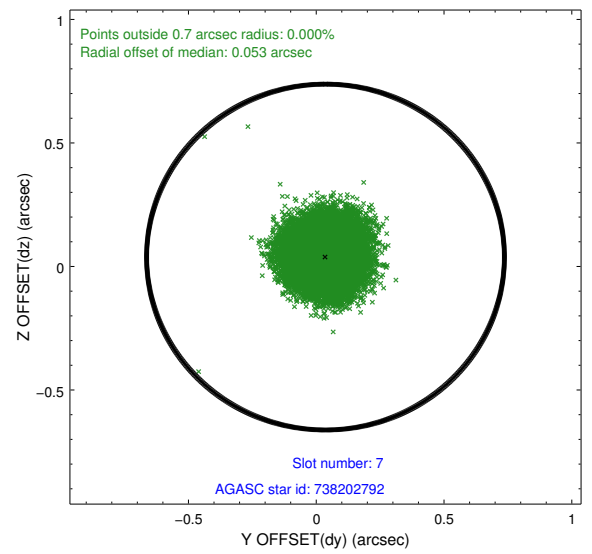
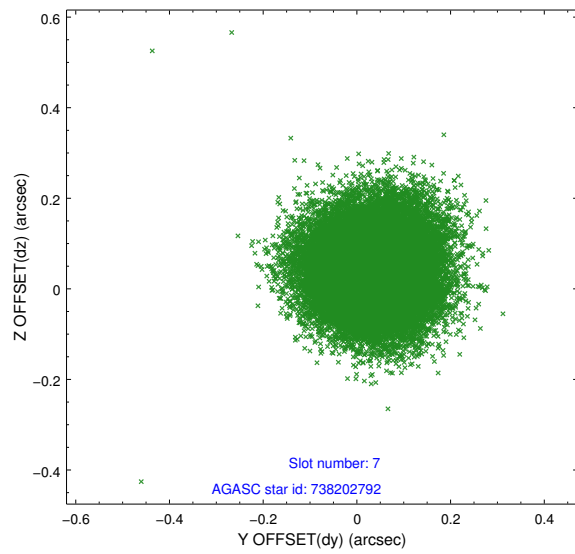
2.4.3 Slot 5



2.4.4 Slot 6

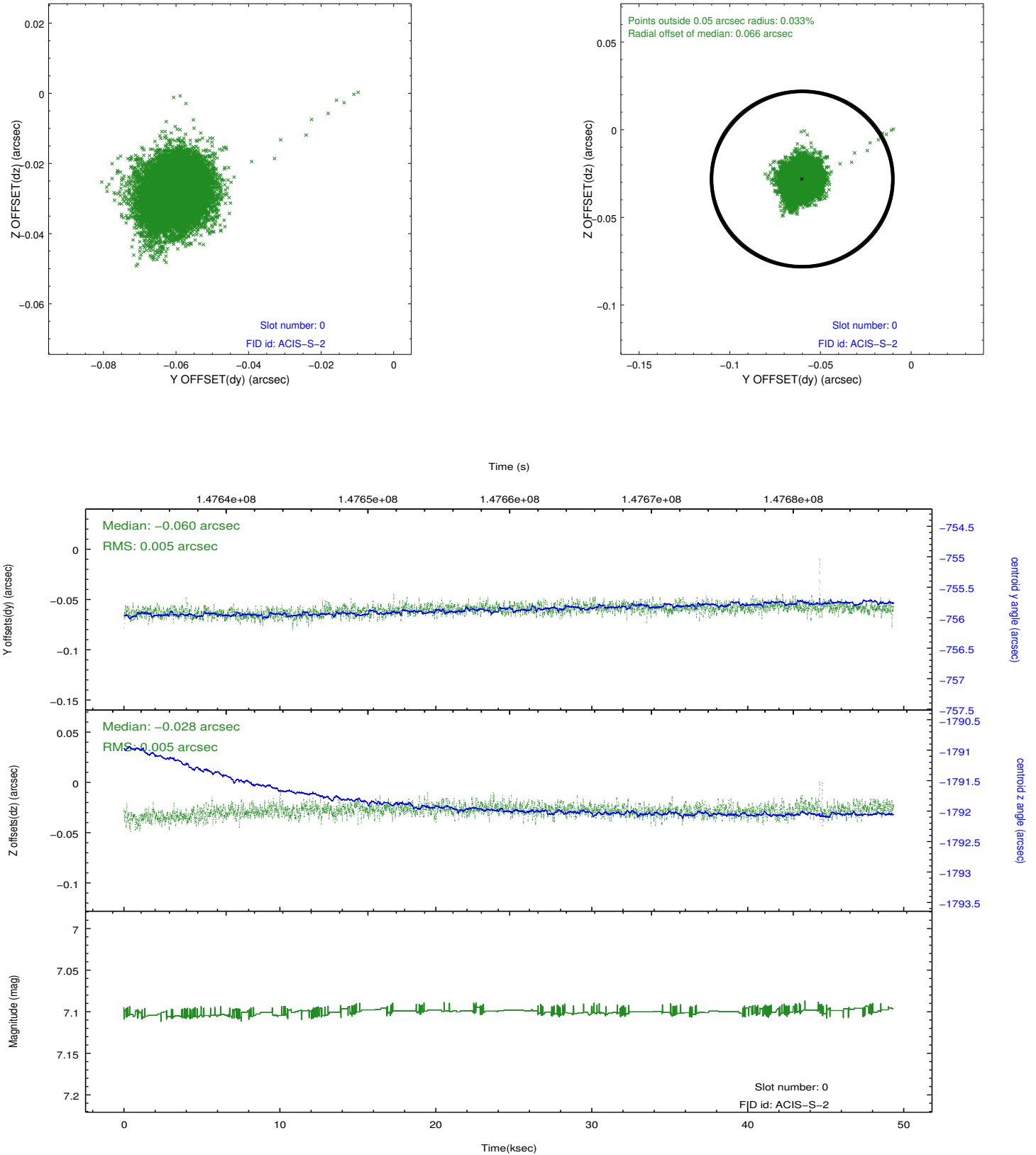


2.4.5 Slot 7

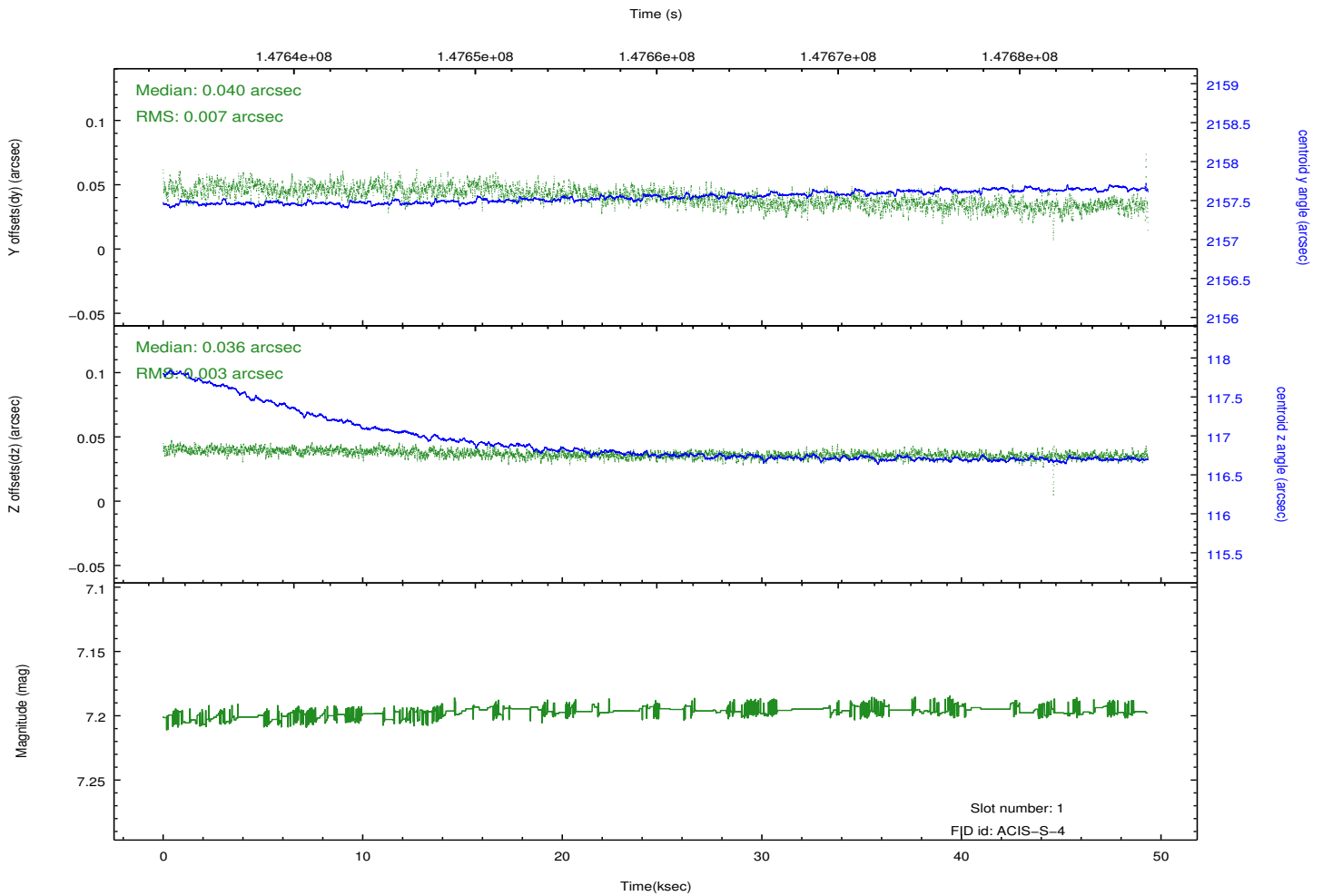
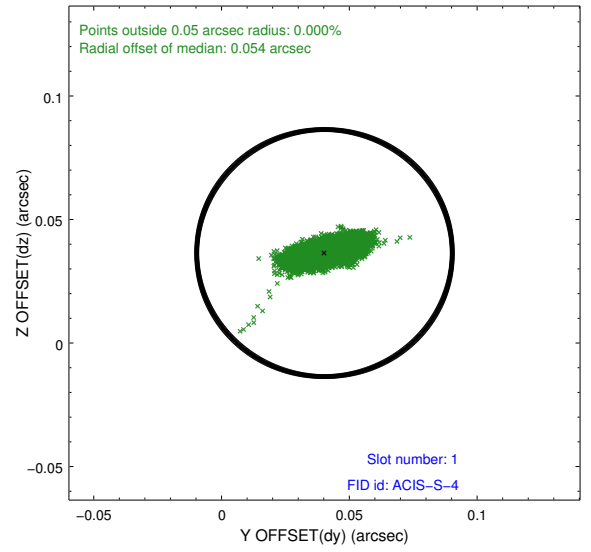
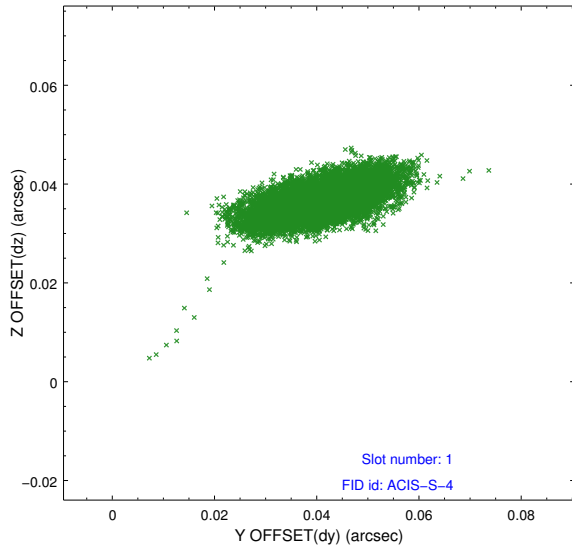


2.5 FID Slots

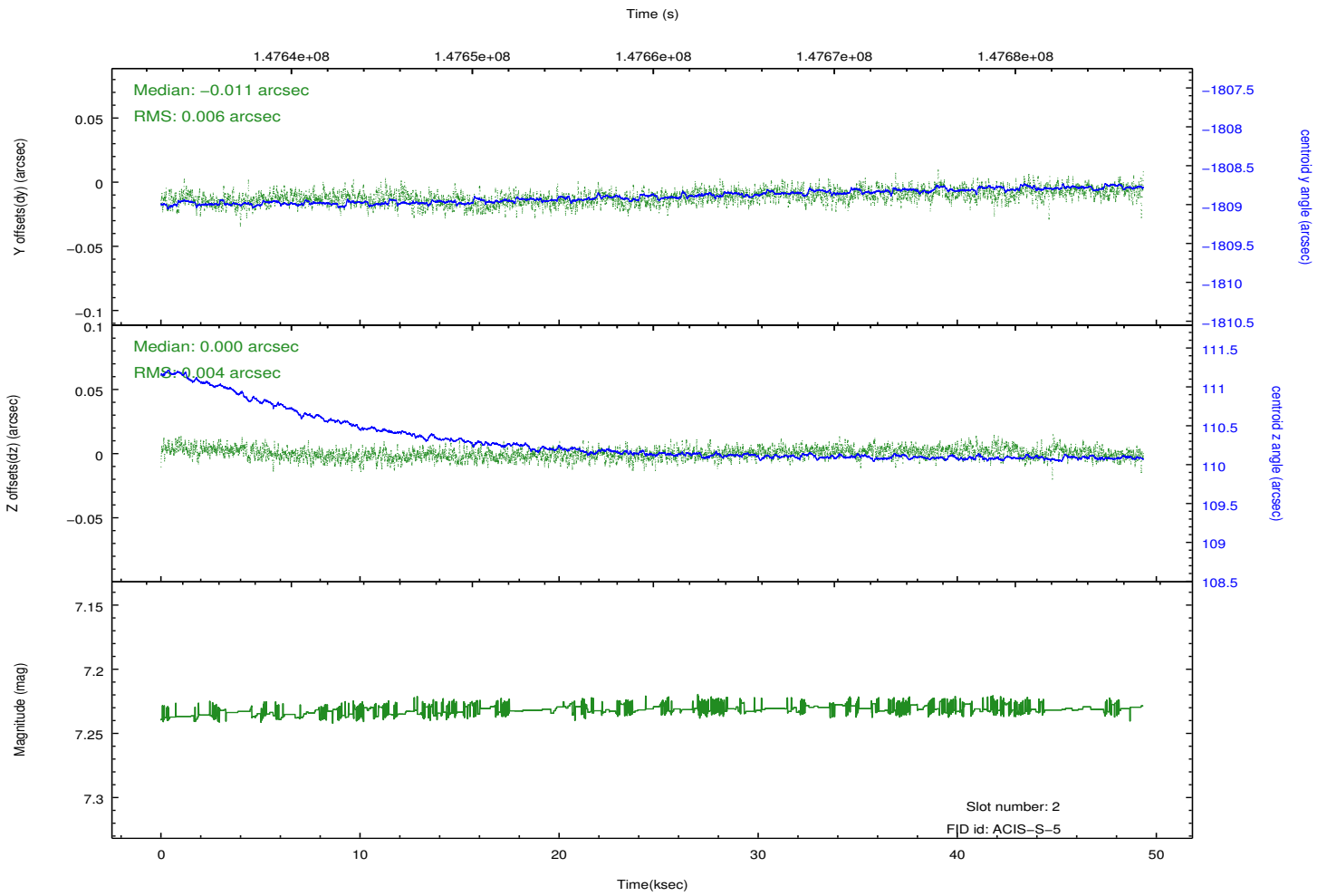
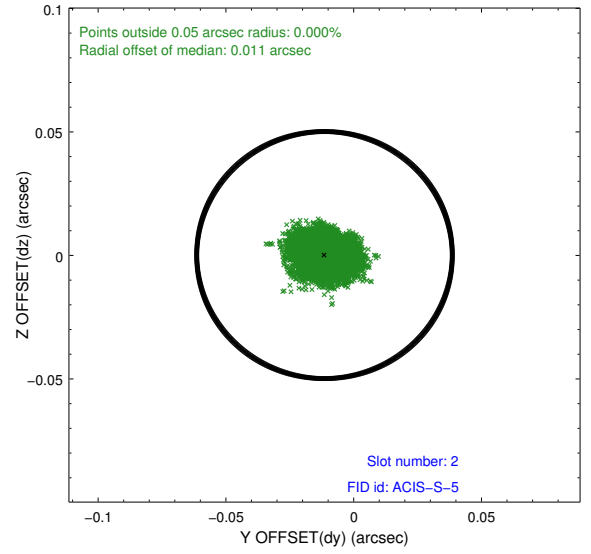
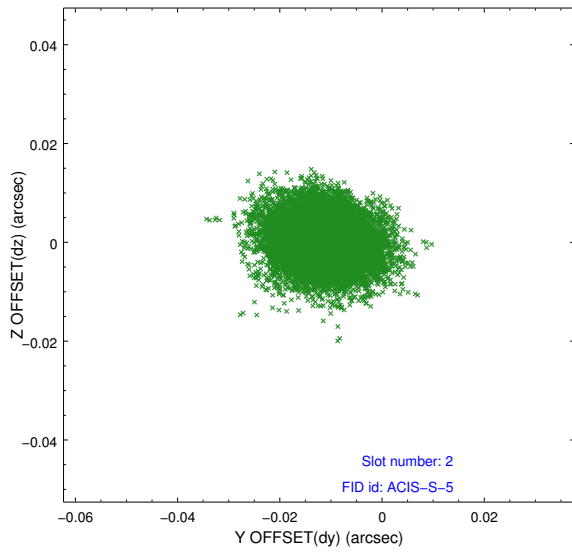
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

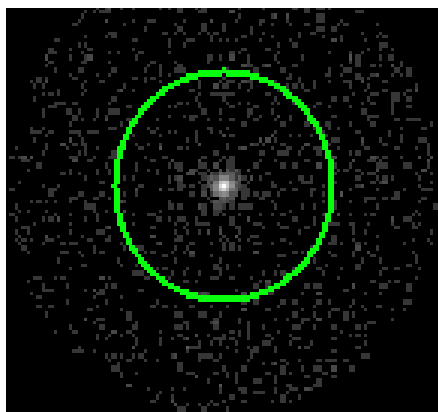


3 Gratings

3.1 HEG Arm



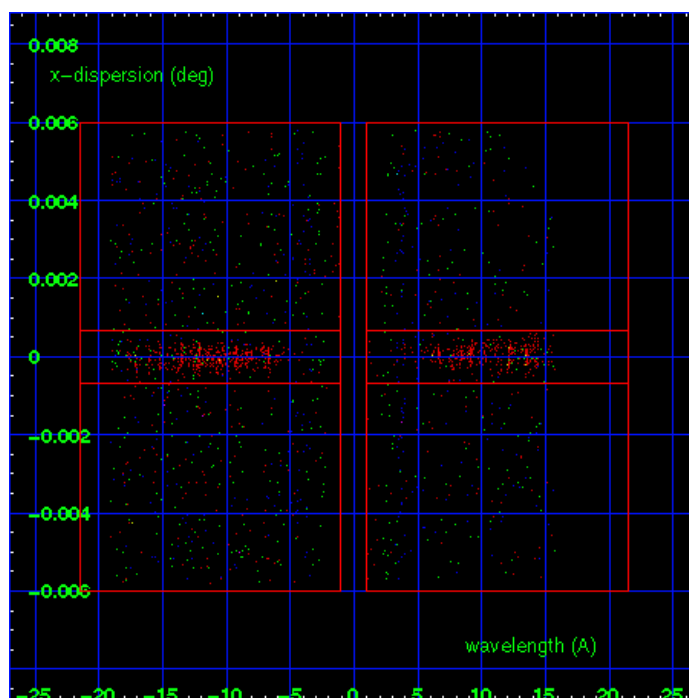
HEG Order Sort 123



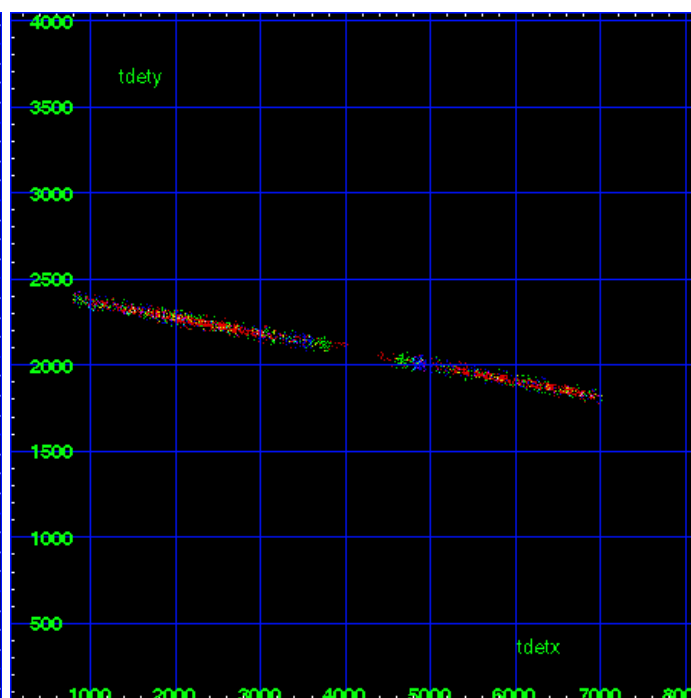
HEG Zero Order



HEG Order Sort ALL

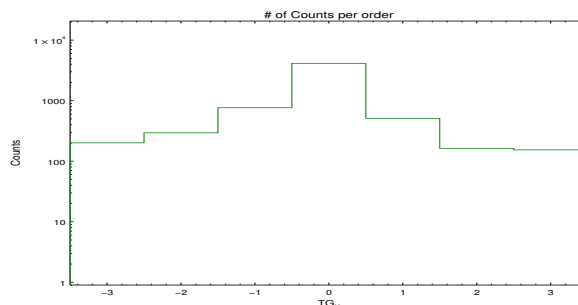


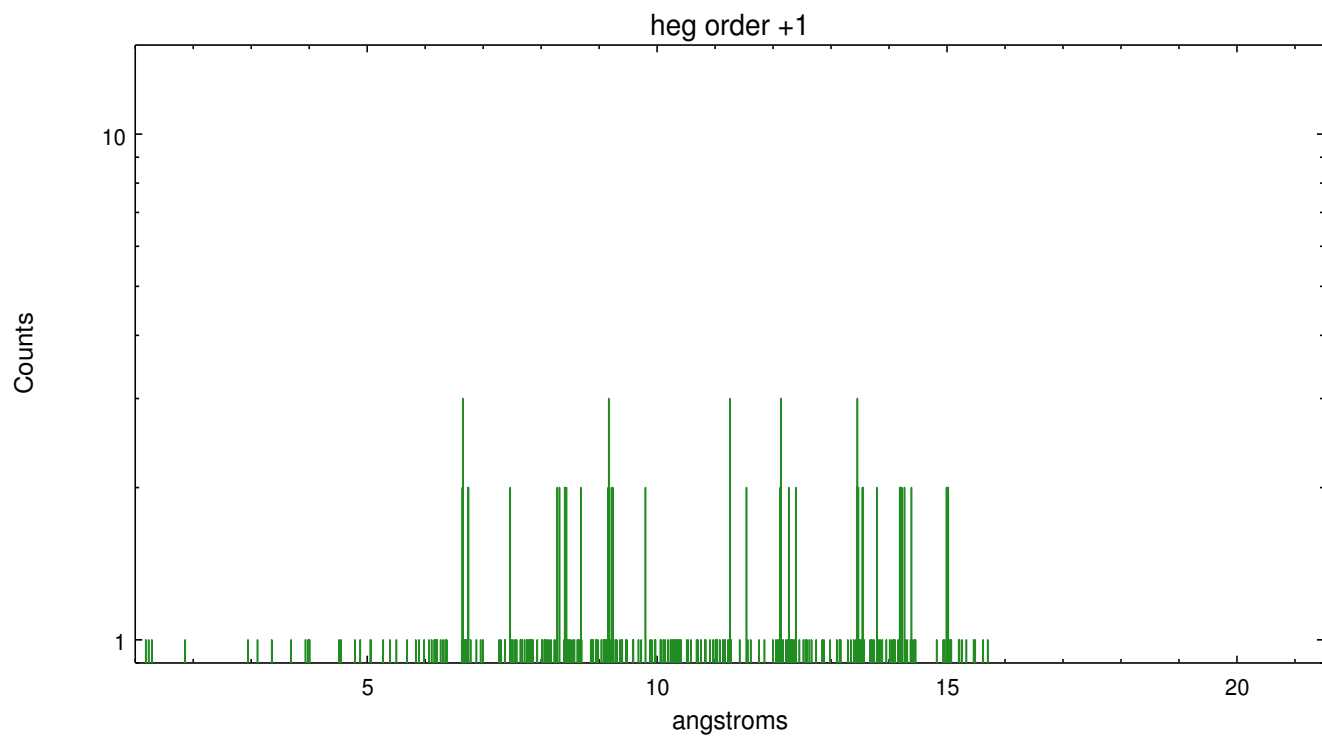
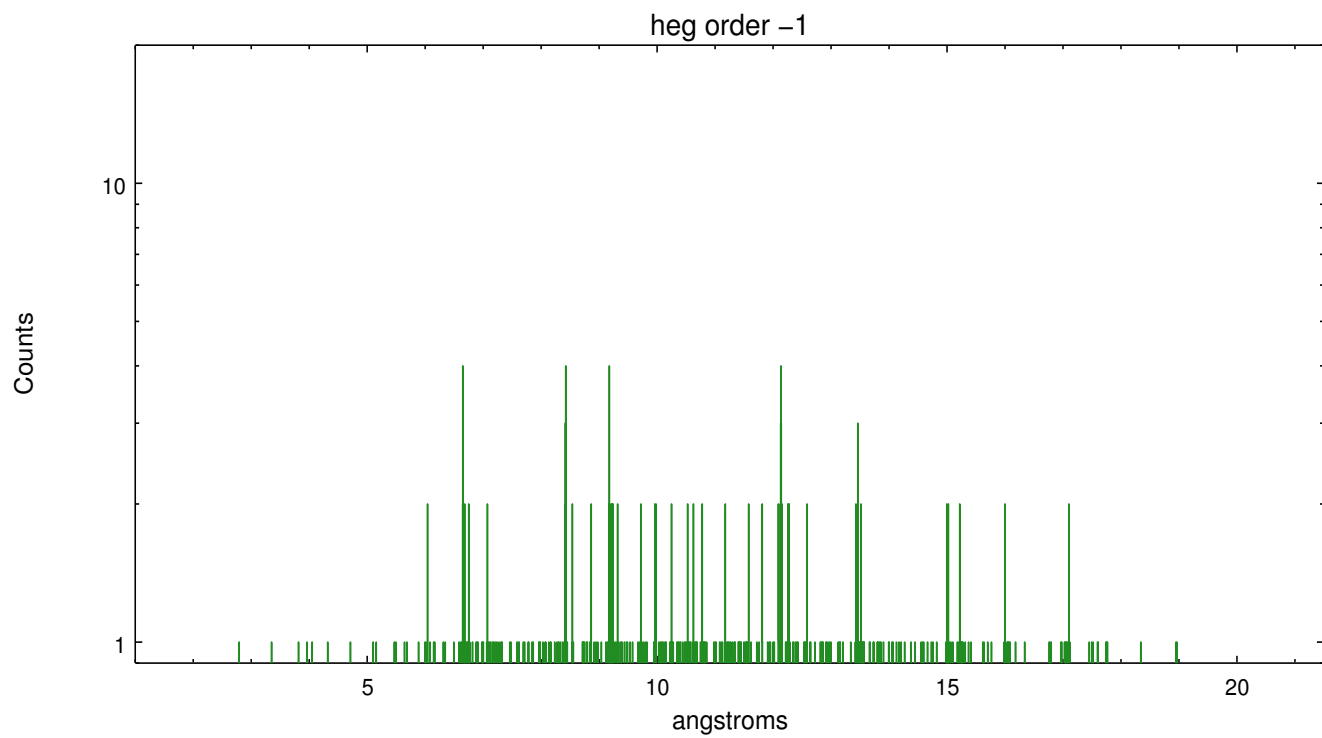
Spot Image HEG



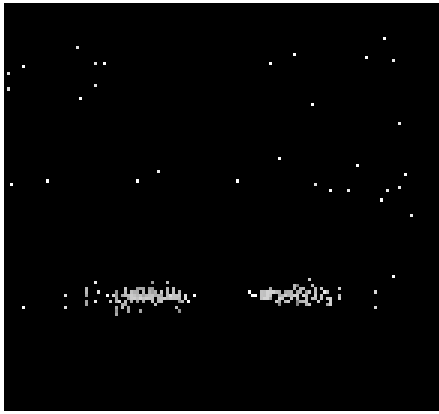
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	201	295	765	4133	510	163	154

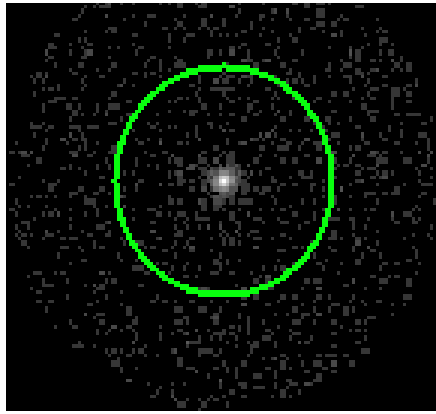




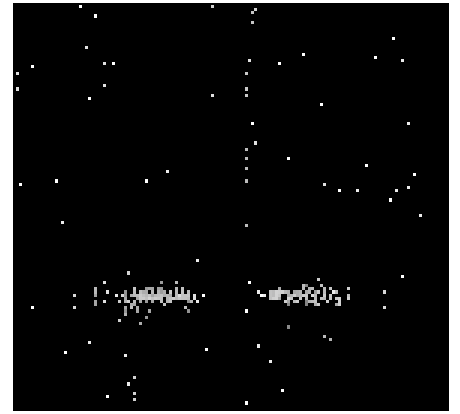
3.2 MEG Arm



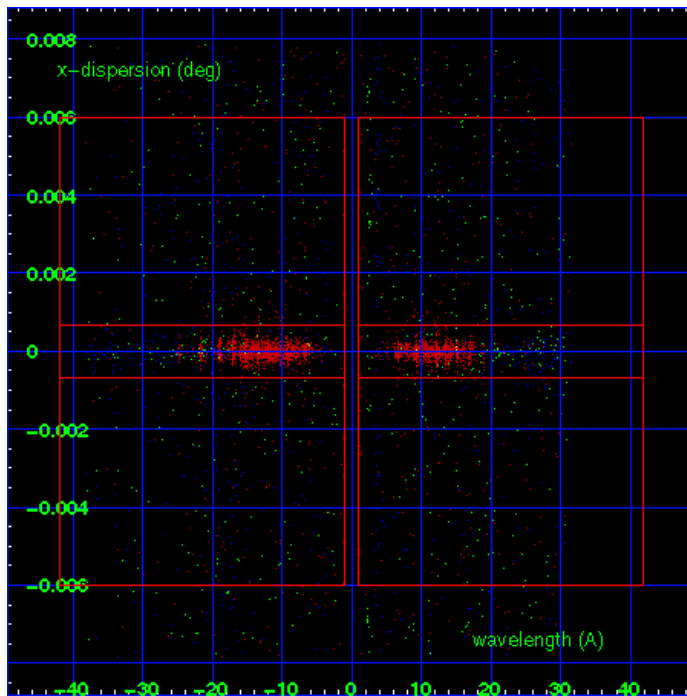
MEG Order Sort 123



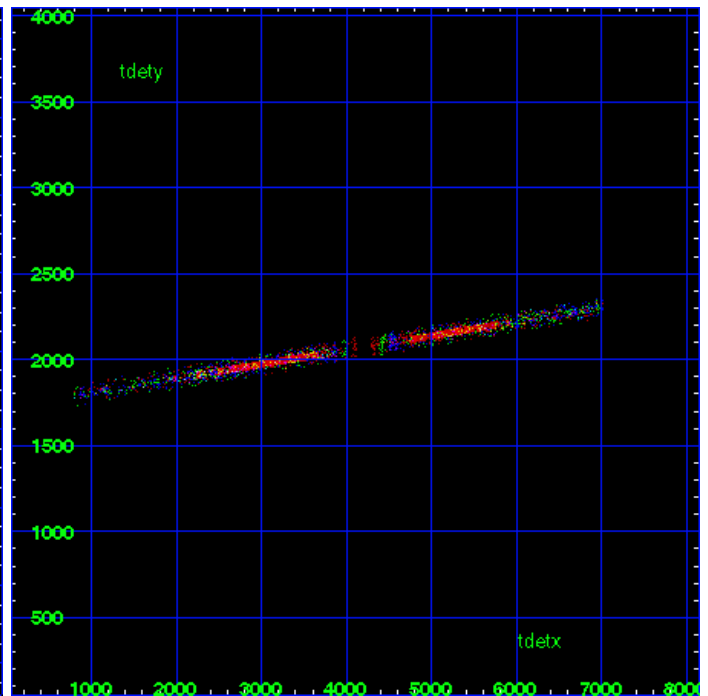
MEG Zero Order



MEG Order Sort ALL

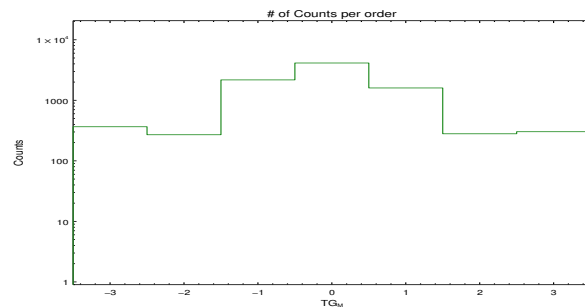


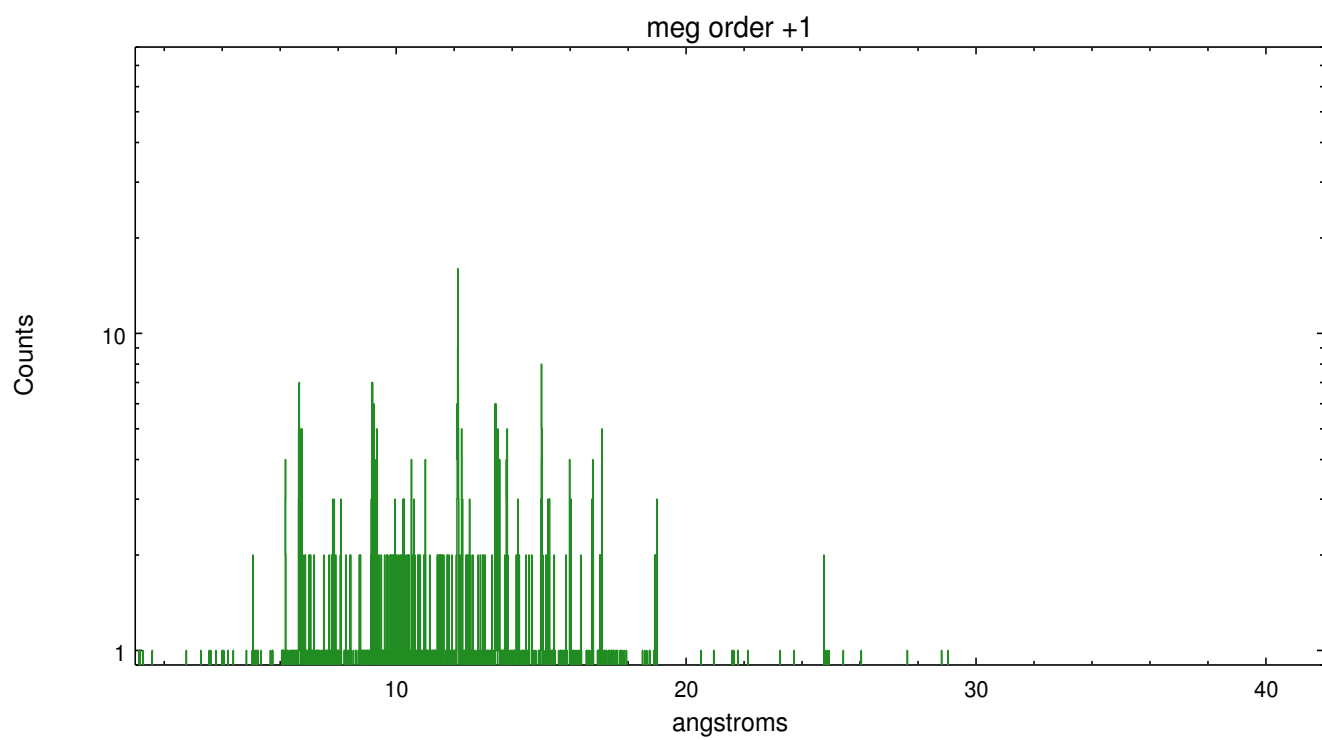
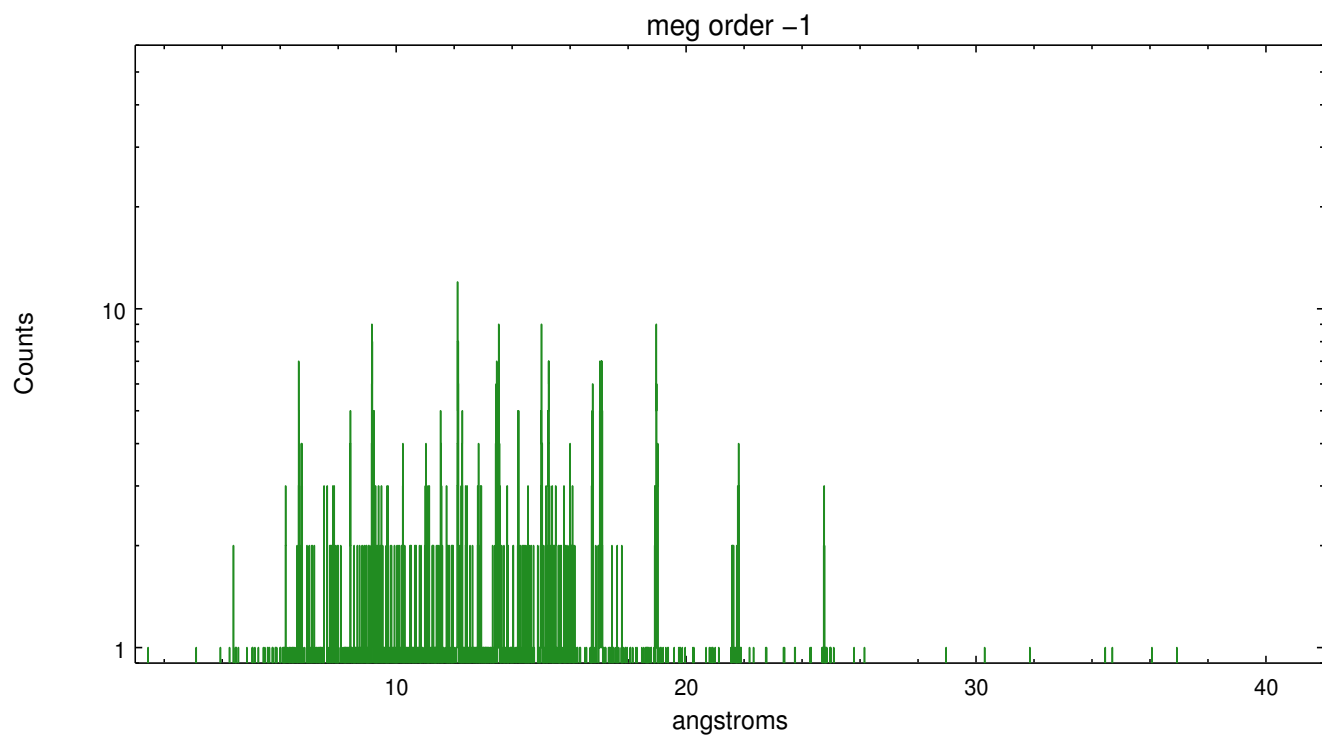
Spot Image MEG



Full Detector MEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	366	270	2174	4133	1600	280	303





A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.956

A.2 Comments