

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4611 - L2 Version 4
Chandra X-Ray Center

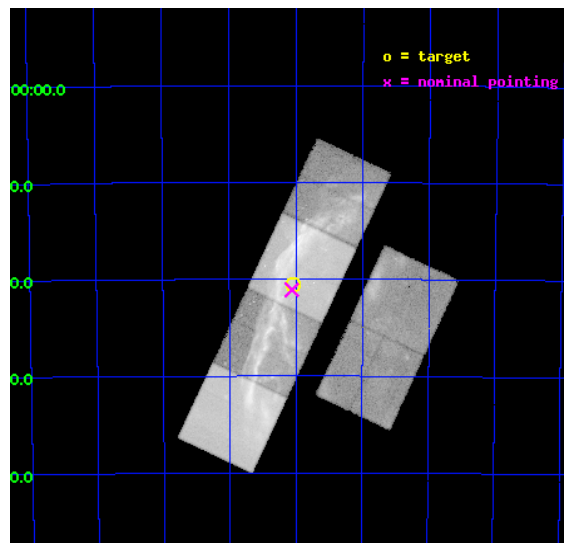
L2 Processing Date : Dec 8 2012

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1 Front

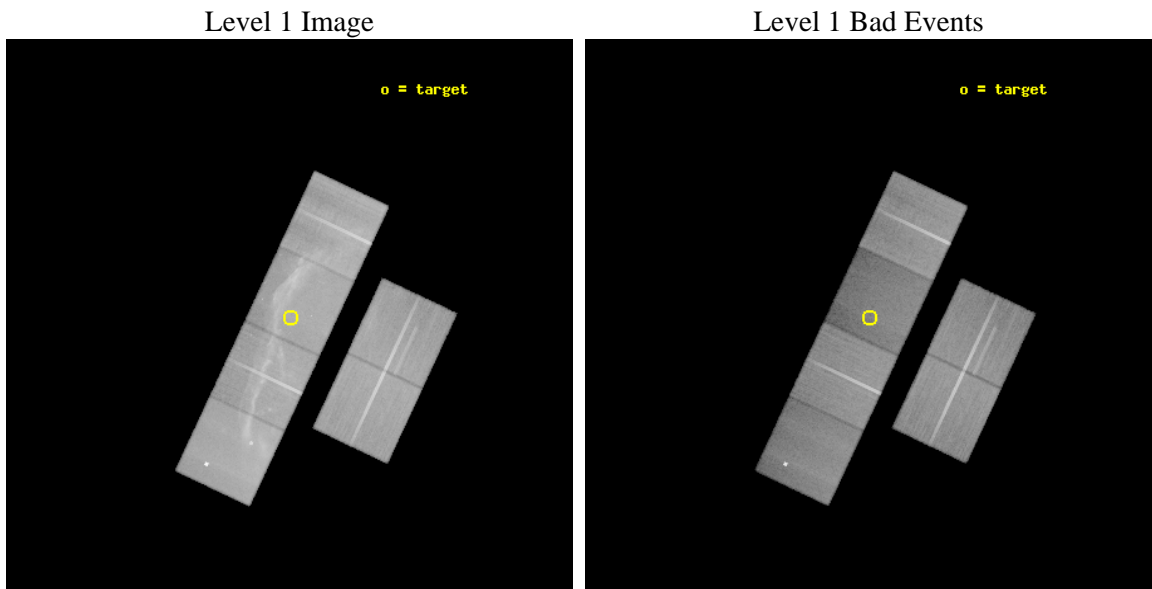
seq_num	500436	Sequence number
obs_id	4611	Observation id
title	Completing our understanding of RCW 86 with Chandra imaging and XMM-Newton high resolution spectroscopy	Proposal title
observer	Dr. Jacco Vink	Principal investigator
object	RCW 86 NE	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	221.259583	Observer's specified target RA [deg]
dec_targ	-62.342222	Observer's specified target Dec [deg]
ra_nom	221.26501072276	Nominal RA [deg]
dec_nom	-62.351569428396	Nominal Dec [deg]
roll_nom	295.16143133813	Nominal Roll [deg]
revision	4	Processing version of data
ontime	72585.558759302	Sum of GTIs [s]
livetime	71666.436708515	Livetime [s]
ontime2	72575.835808635	Sum of GTIs [s]
ontime3	72582.317759126	Sum of GTIs [s]
ontime5	72585.558759302	Sum of GTIs [s]
ontime6	72582.31776914	Sum of GTIs [s]
ontime7	72585.558759302	Sum of GTIs [s]
ontime8	72575.835967988	Sum of GTIs [s]
l2events	982058	Number of level 2 events



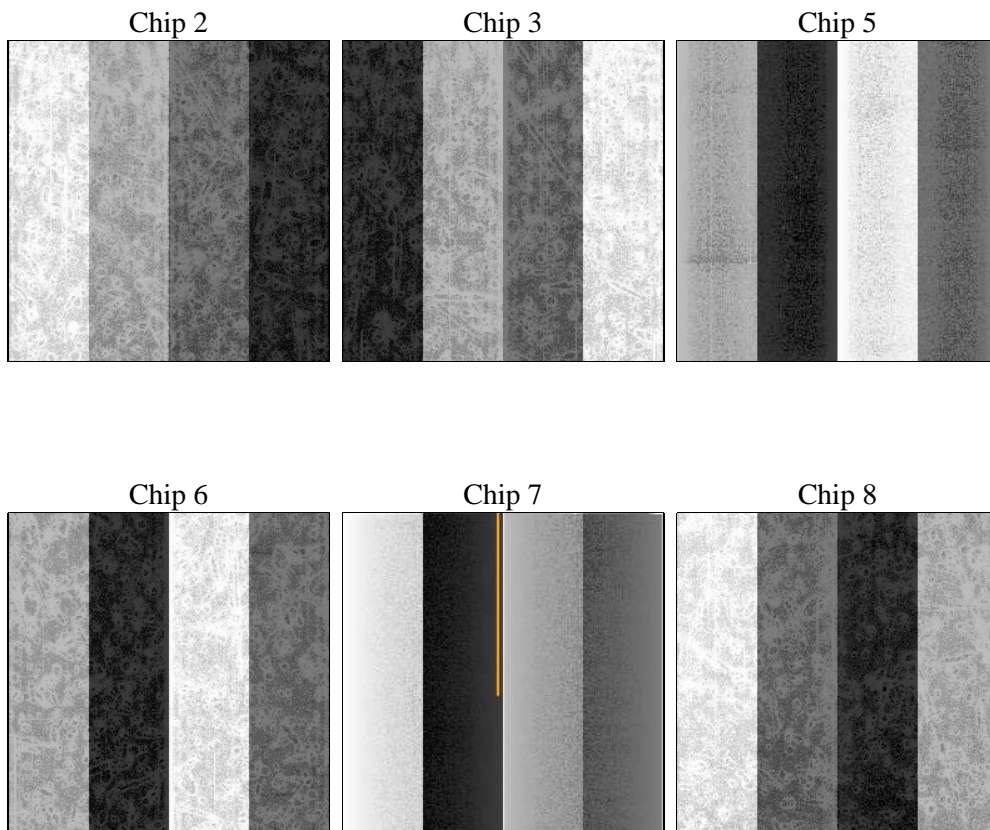
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	72632.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	72585.558759302	Sum of GTIs [s]
caldbver	4.5.4	 	ontime2	72575.835808635	Sum of GTIs [s]
date	2012-12-08T03:18:39	Date and time of file creation	ontime3	72582.317759126	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	72585.558759302	Sum of GTIs [s]
			ontime6	72582.31776914	Sum of GTIs [s]
			ontime7	72585.558759302	Sum of GTIs [s]
			ontime8	72575.835967988	Sum of GTIs [s]
			l1events	3156988	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	481707	434258	575902	545788	552854	566479	grade 0 events	31464	34663	48536	116749	63371	69867
rejected events	421644	371337	257509	388433	208495	404704		6%	7%	8%	21%	11%	12%
rejected %	87%	85%	44%	71%	37%	71%	grade 1 events	299	332	423	543	393	531
								0%	0%	0%	0%	0%	0%
							grade 2 events	11426	10473	95028	17592	78424	31196
								2%	2%	16%	3%	14%	5%
							grade 3 events	4893	5248	15917	6807	35945	14063
								1%	1%	2%	1%	6%	2%
							grade 4 events	5080	5051	15729	6699	35789	13298
								1%	1%	2%	1%	6%	2%
							grade 5 events	12394	14085	43506	14841	44833	21674
								2%	3%	7%	2%	8%	3%
							grade 6 events	7204	7491	143210	9521	130856	33357
								1%	1%	24%	1%	23%	5%
							grade 7 events	408947	356915	213553	373036	163243	382493
								84%	82%	37%	68%	29%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	221.216404	221.2650107227587	Subarray requested	NONE	NONE
[deg] Pointing Dec	-62.336292	-62.35156942839568	Alternating exposures requested	N	N
[deg] Pointing Roll	294.961761	295.1614313381322	[s] Primary exposure time	0.000000	3.2
[deg] Roll angle	290.000000	290.000000			
[deg] Roll tolerance	5.000000	5.000000			
Roll constraint allows 180D rotation	N	N			
[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)	203662999.184000	203661718.57847			
Observation start date	2004-06-15T05:02:15	2004-06-15T04:41:58			
[s] Observation end time (MET)	203735631.184000	203736547.68178			
Observation end date	2004-06-16T01:12:47	2004-06-16T01:29:07			
Read mode	TIMED	TIMED			

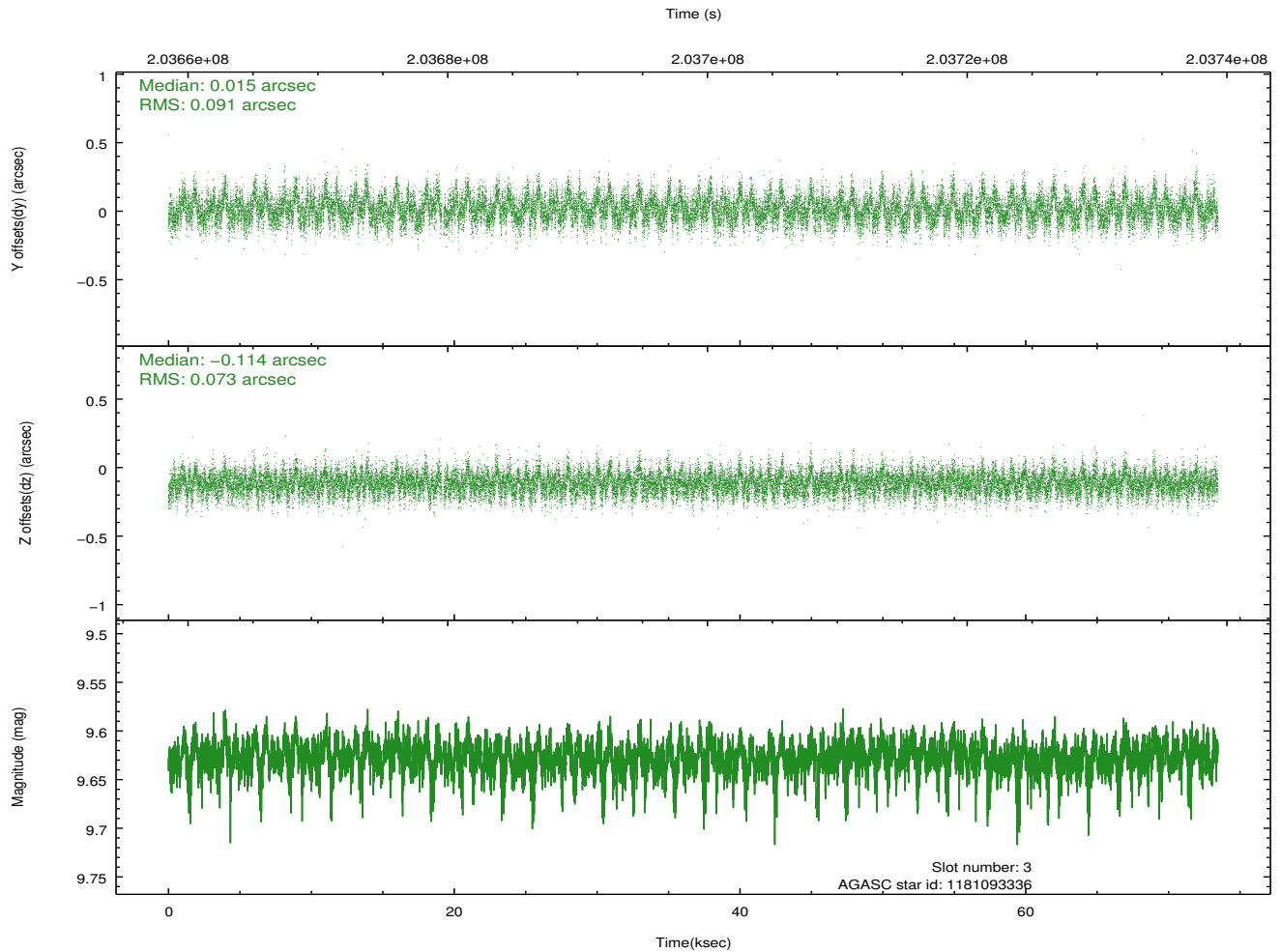
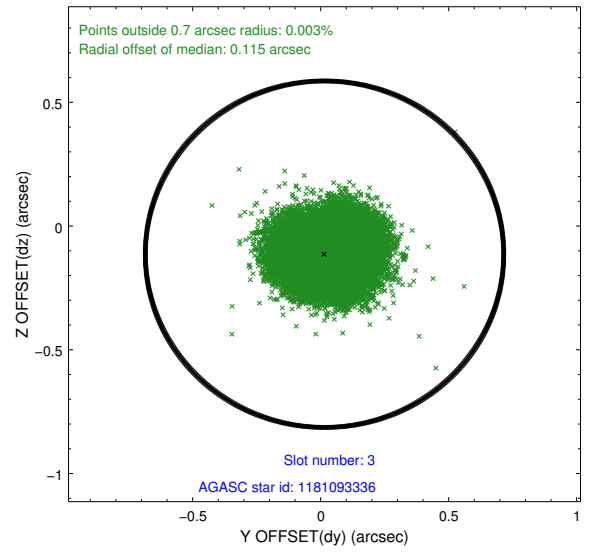
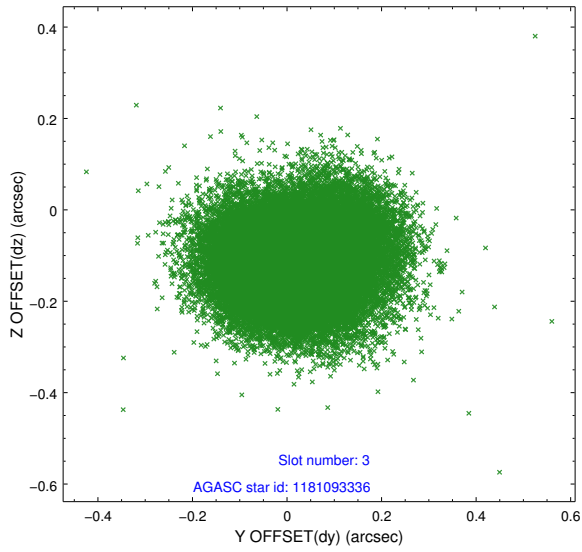
2.3 Aspect

Slot Statistics

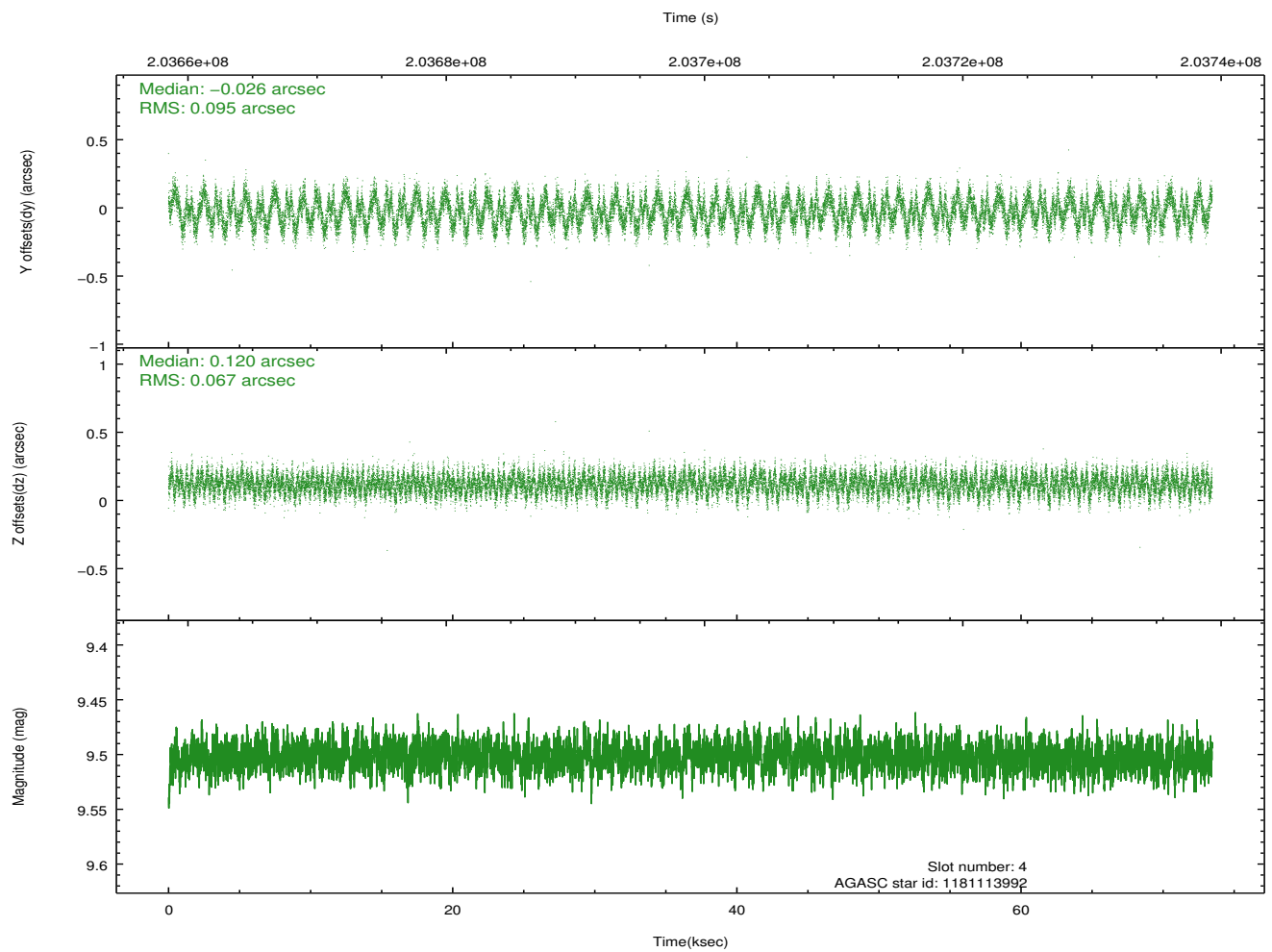
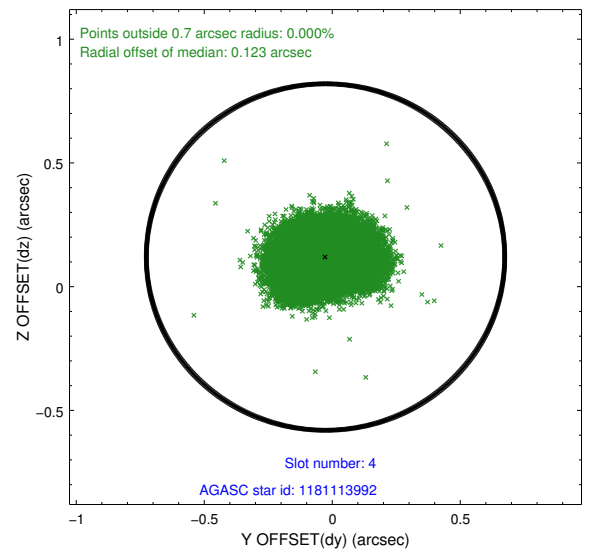
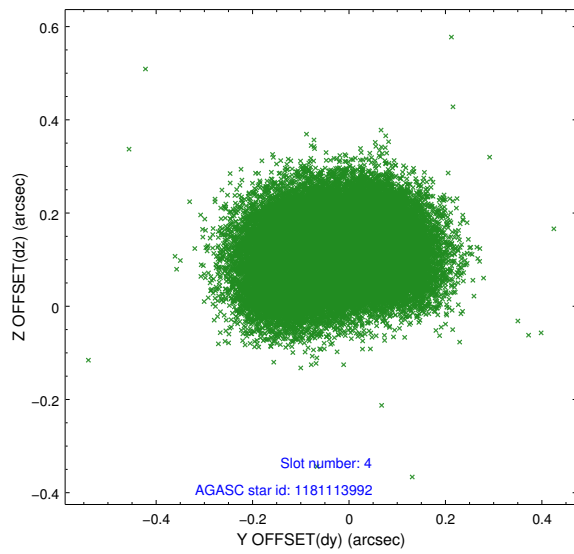
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.18	17915	0.066	-0.009	0.006	0.011	0.000000	0.000000	937.65	-1725.73
1	FID	ACIS-S-2	7.10	17914	-0.041	-0.041	0.008	0.013	0.000000	0.000000	-758.39	-1730.21
2	FID	ACIS-S-5	7.23	17914	-0.049	0.056	0.006	0.011	0.000000	0.000000	-1811.55	172.01
3	GUIDE	1181093336	9.63	35732	0.015	-0.114	0.124	0.203	220.776875	-63.106347	2213.65	-1819.75
4	GUIDE	1181113992	9.50	35796	-0.026	0.120	0.127	0.197	221.650516	-62.822918	1891.81	-92.89
5	GUIDE	1181131848	7.84	35821	0.048	0.018	0.062	0.100	222.504353	-62.330760	910.19	1951.45
6	GUIDE	1180581152	9.66	35604	-0.006	-0.024	0.126	0.197	221.180675	-61.731640	-1998.98	863.61
7	GUIDE	1180584160	9.56	35788	-0.030	0.004	0.113	0.178	221.205741	-61.754749	-1905.60	867.14

2.4 Star Slots

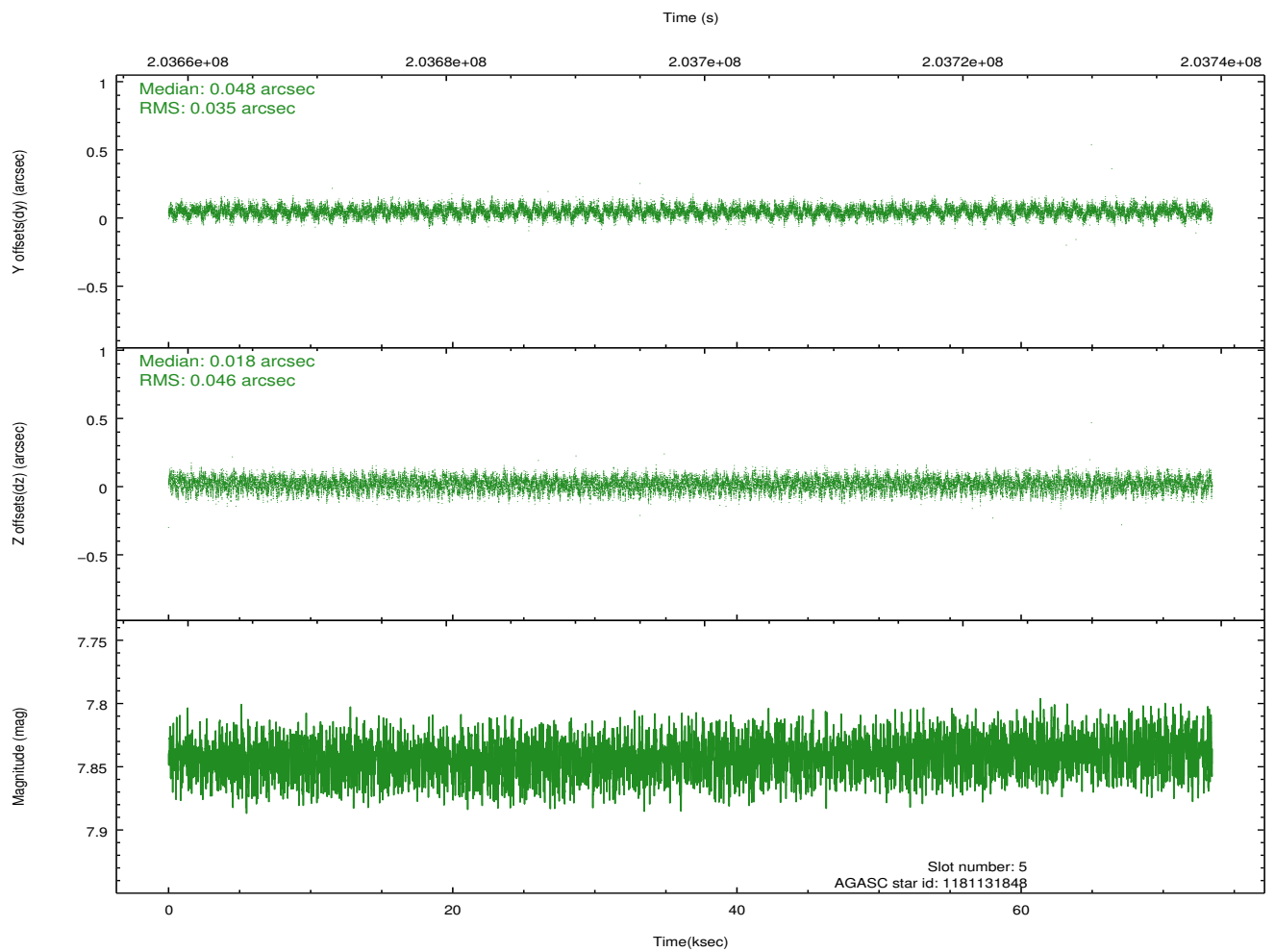
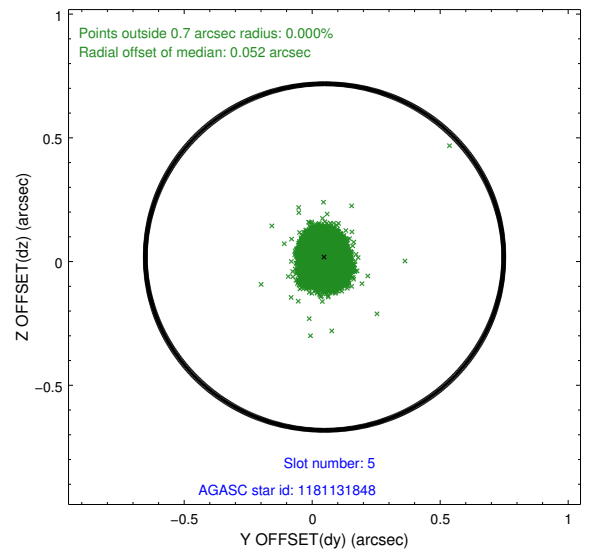
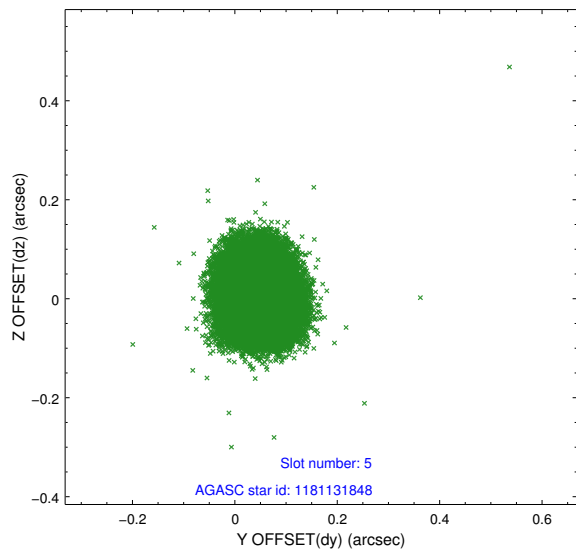
2.4.1 Slot 3



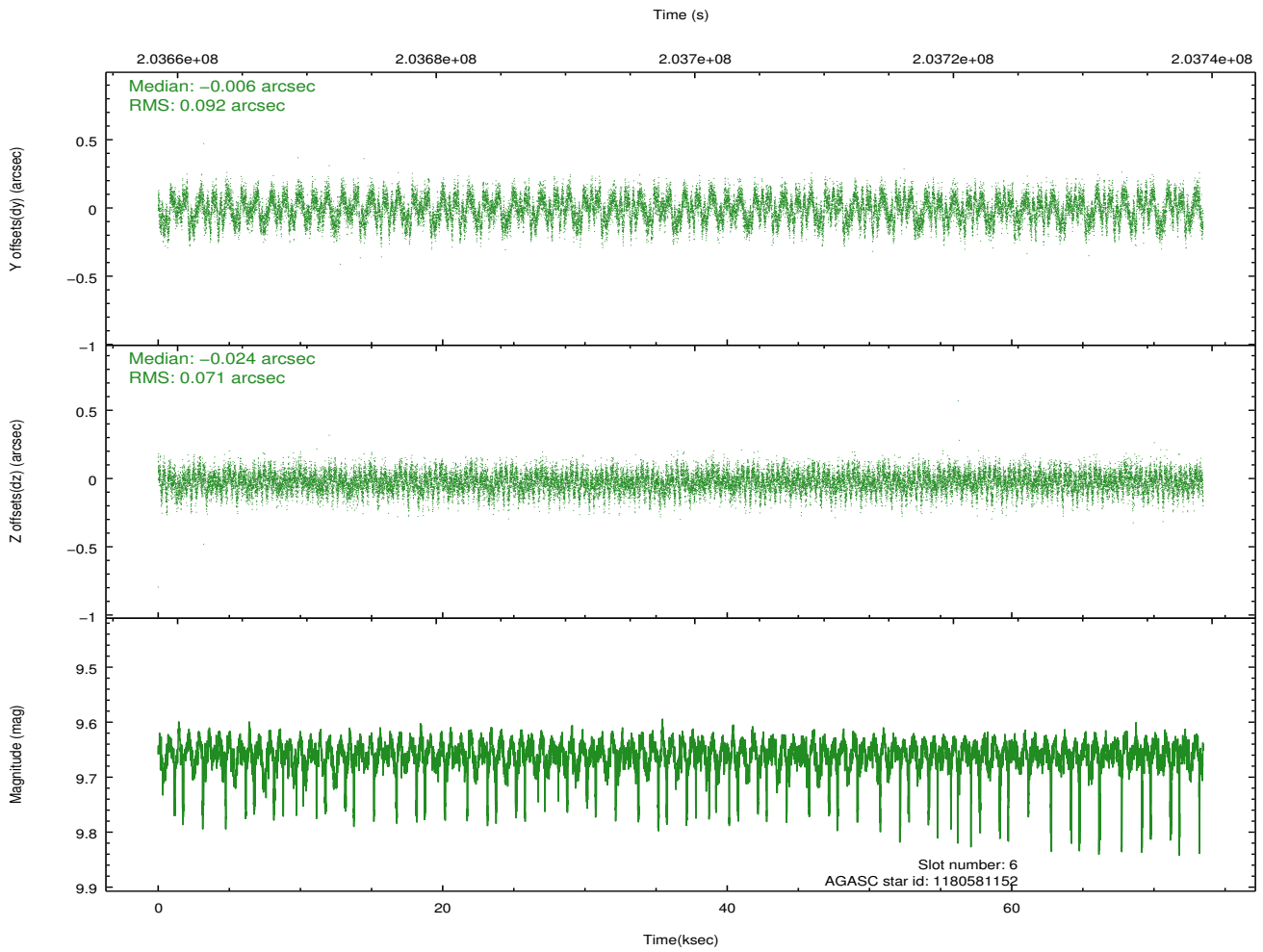
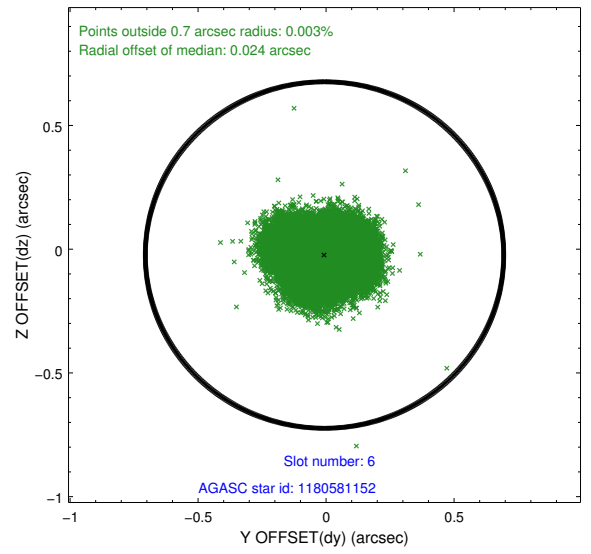
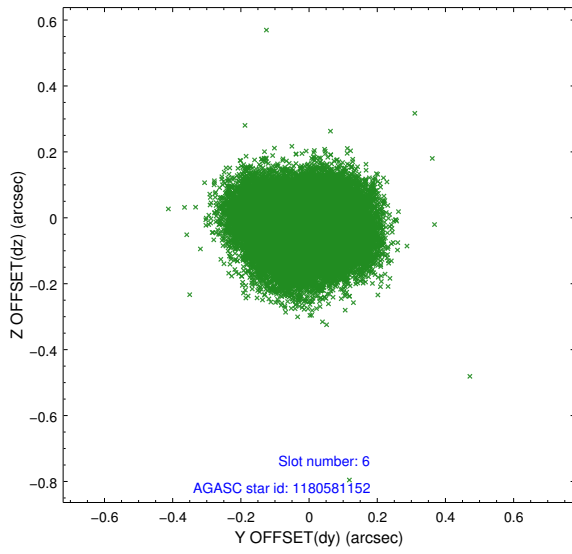
2.4.2 Slot 4



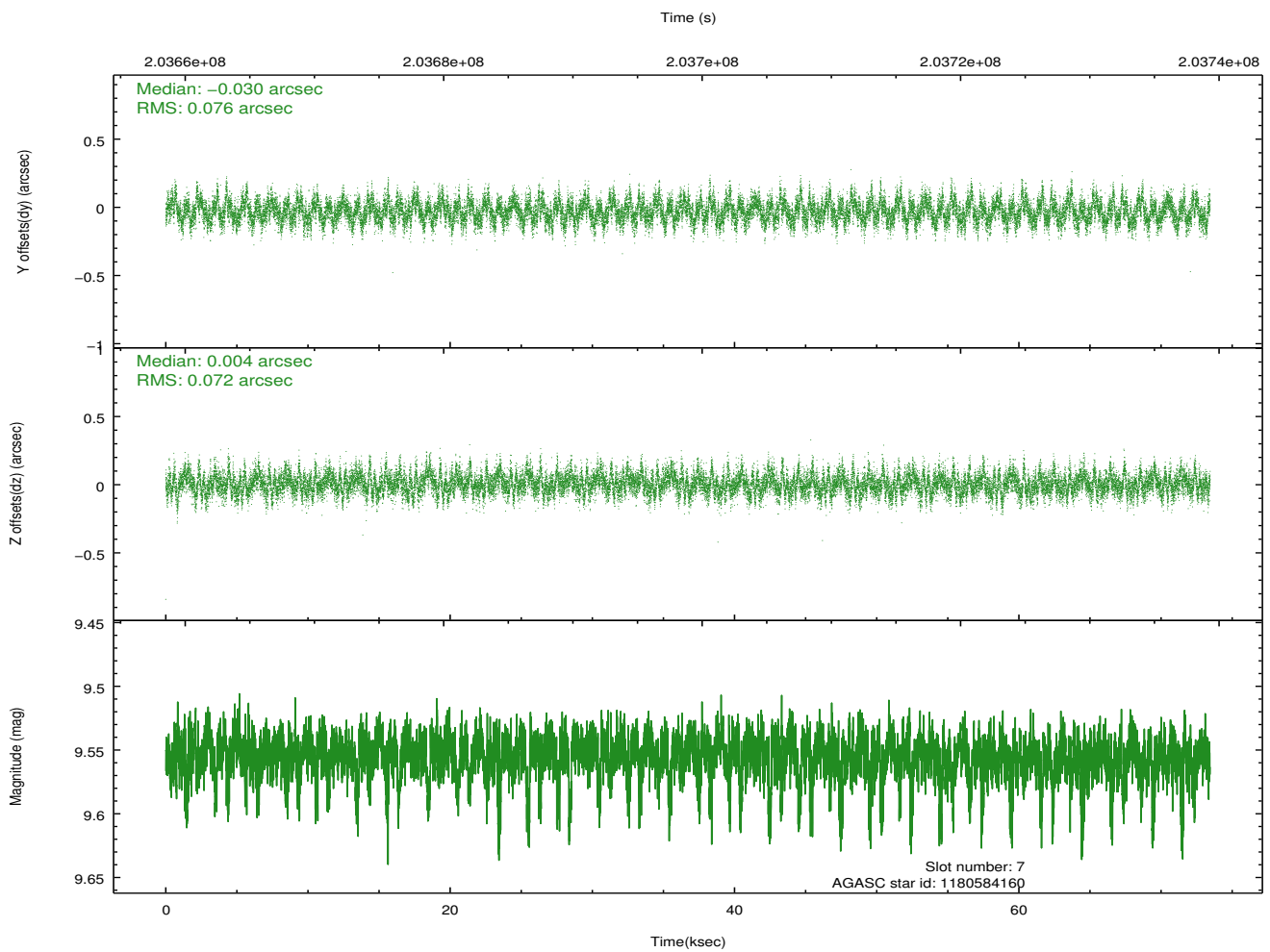
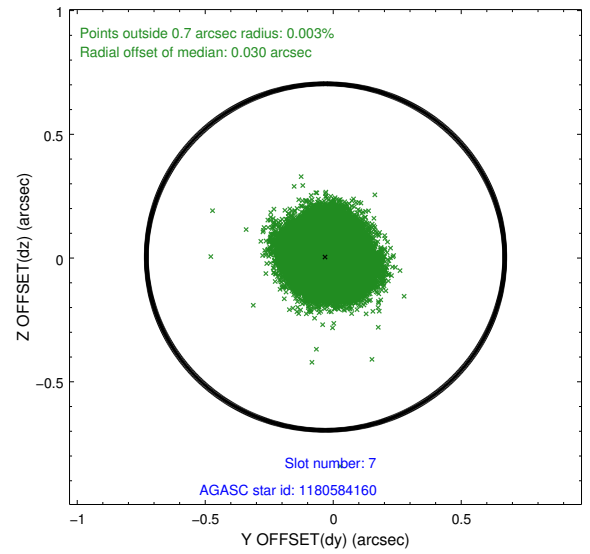
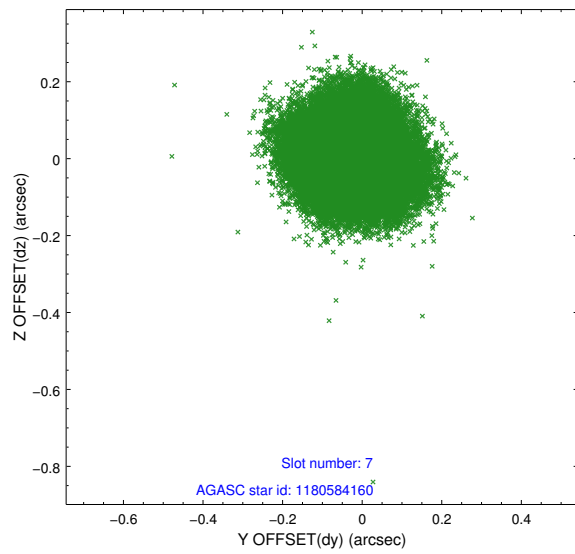
2.4.3 Slot 5



2.4.4 Slot 6

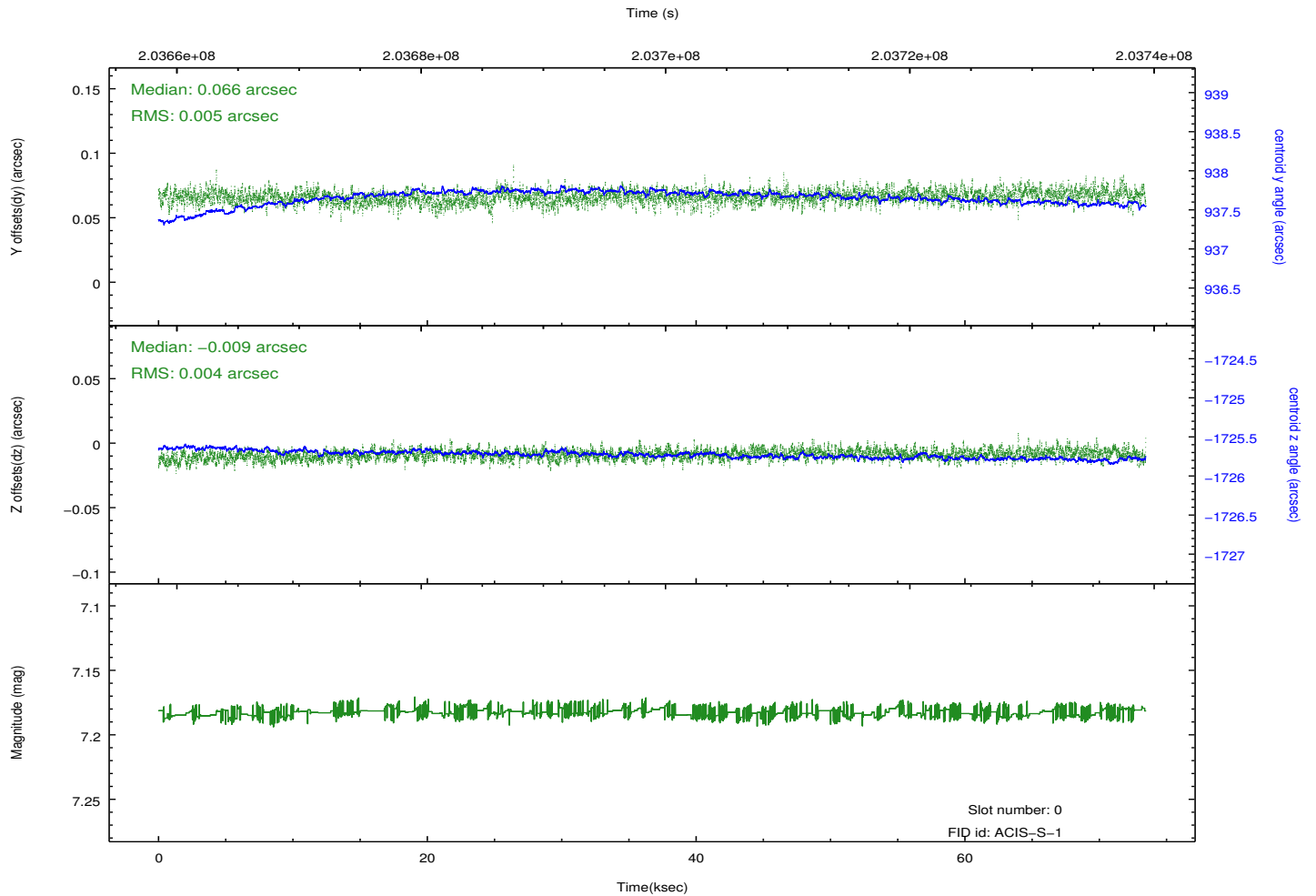
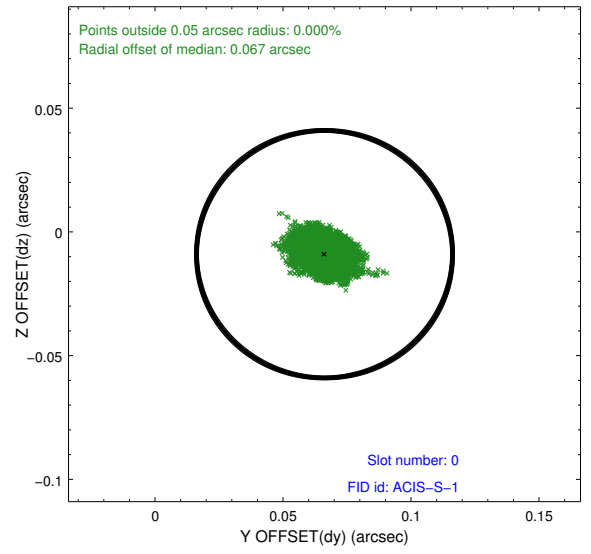
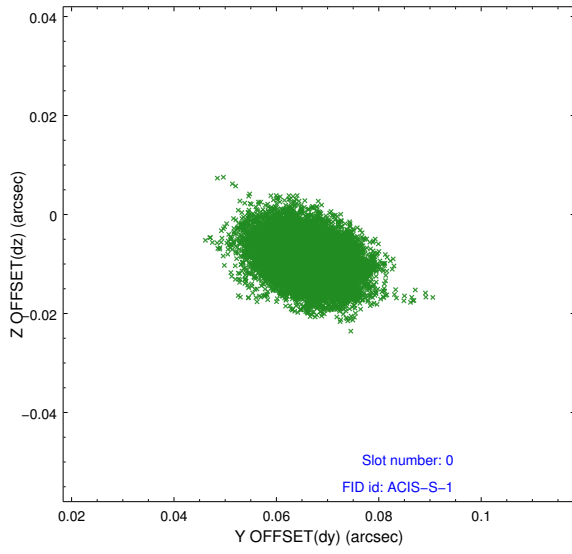


2.4.5 Slot 7

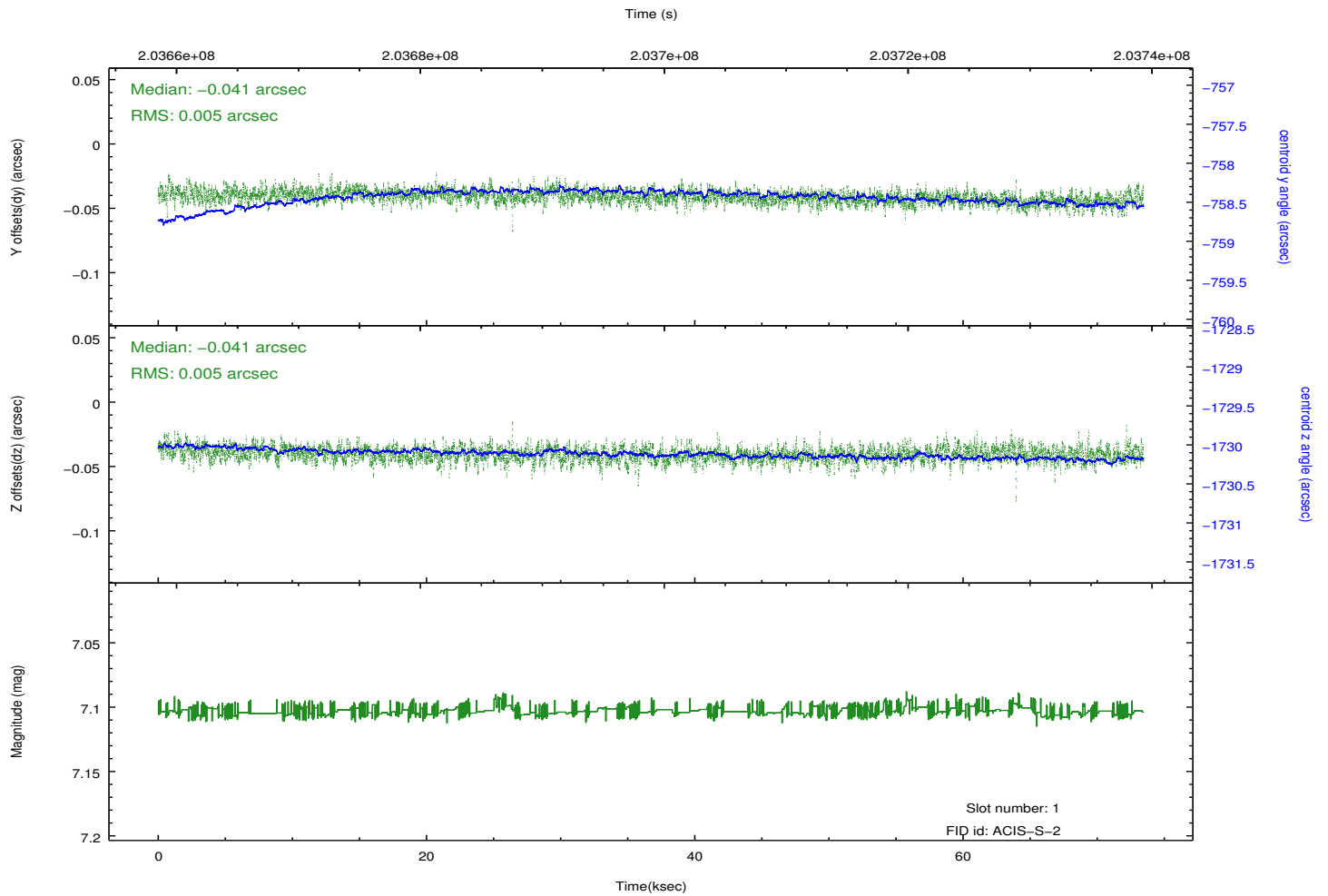
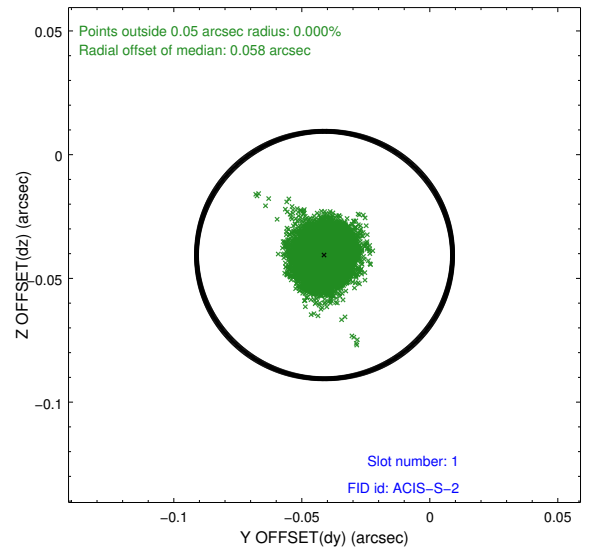
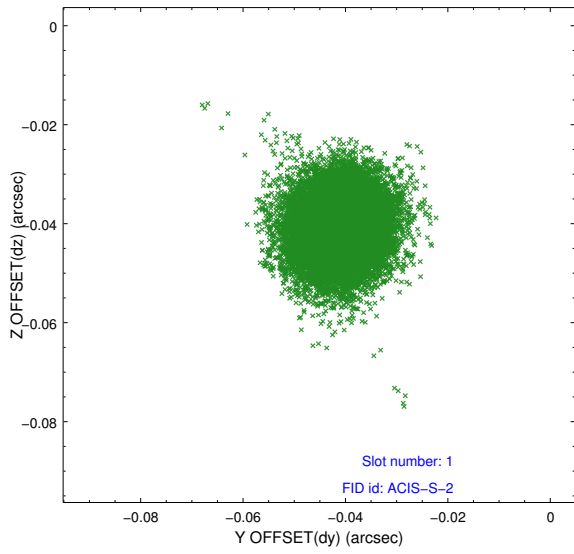


2.5 FID Slots

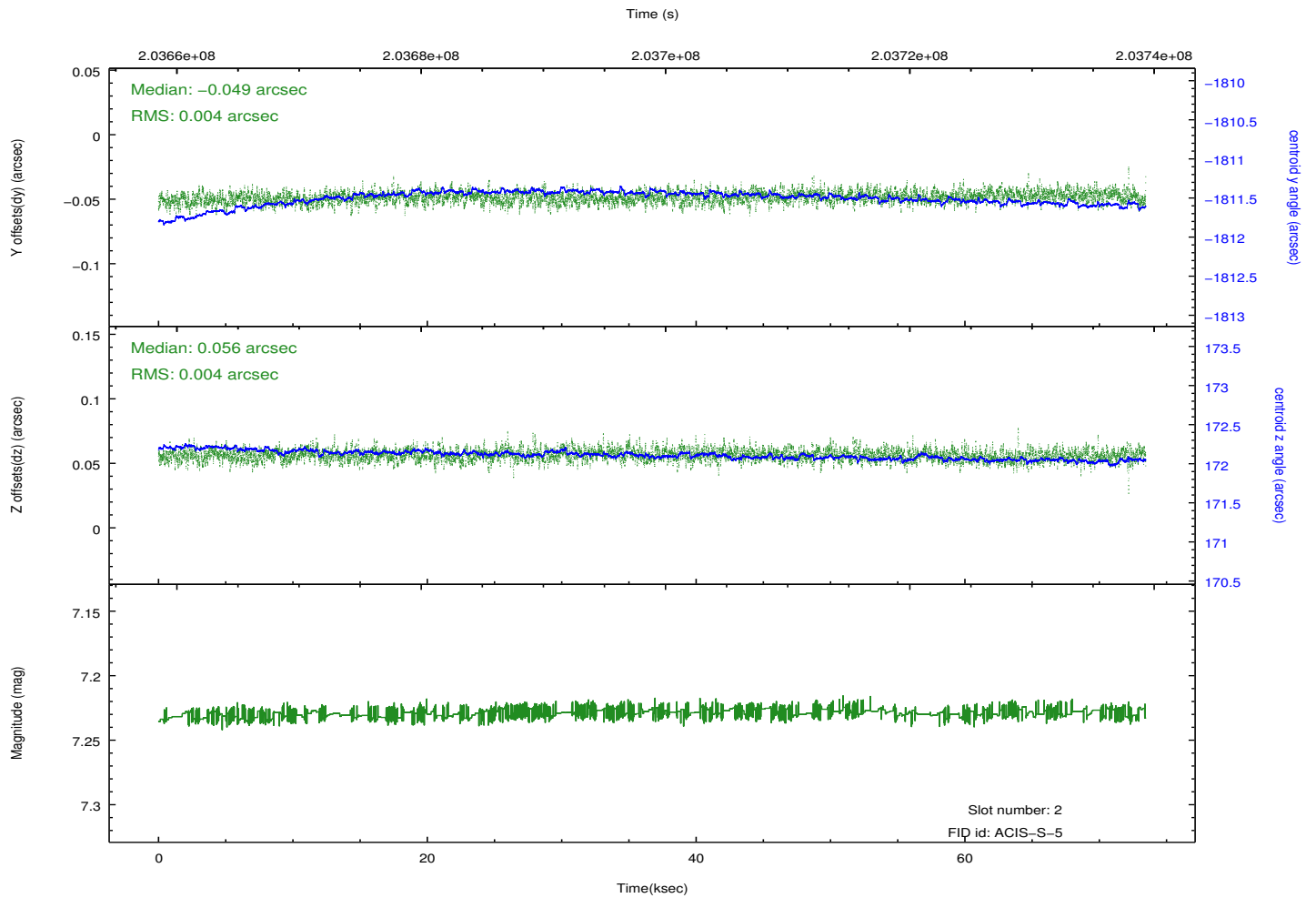
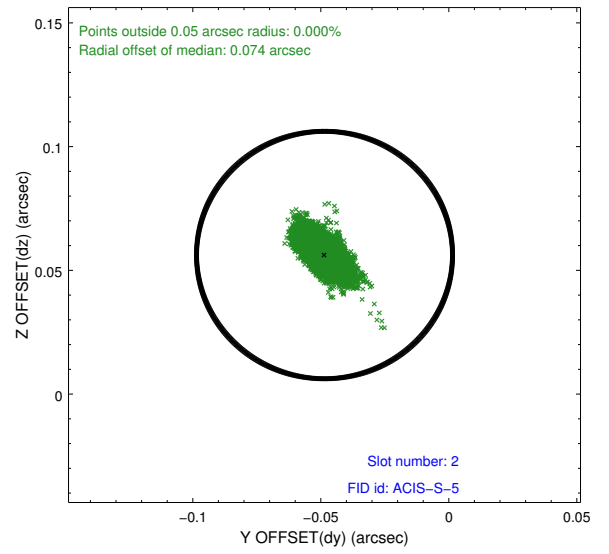
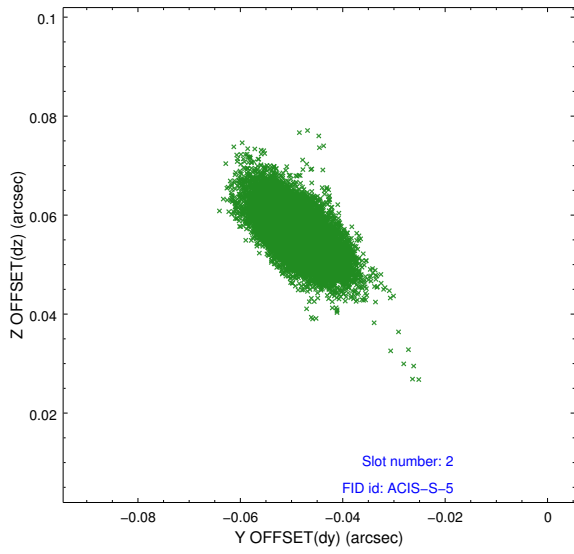
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.12.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	72.585

A.2 Comments

Roll constraint not met, by 0.16 degrees. Joint Proposal: XMM