

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12990 - L2 Version 2
Chandra X-Ray Center

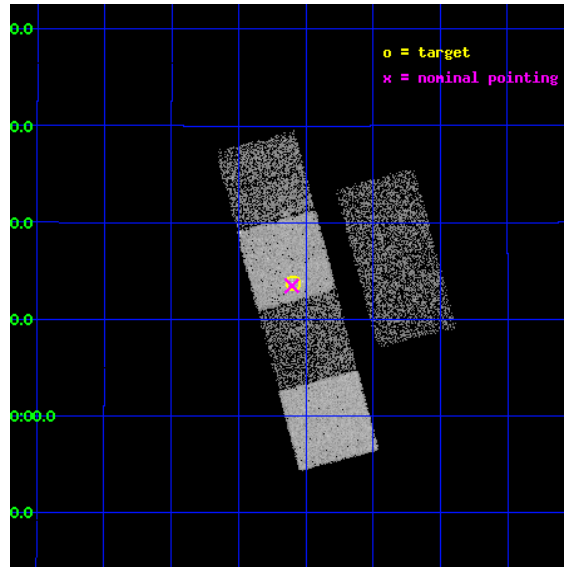
L2 Processing Date : Mar 19 2012

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1 Front

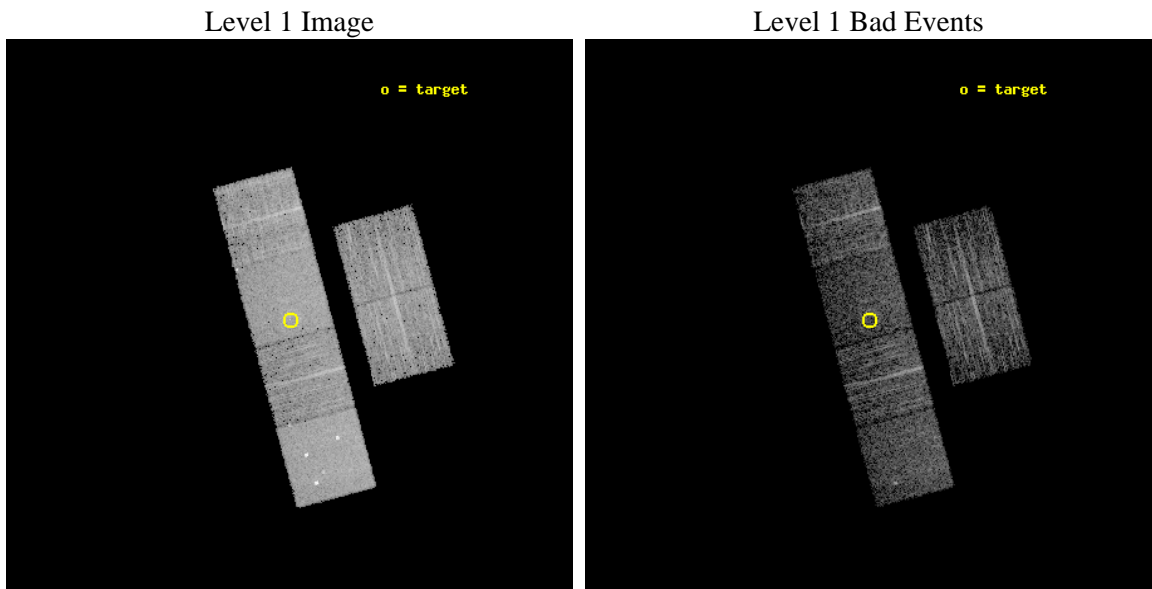
seq_num	600958	Sequence number
obs_id	12990	Observation id
title	The most luminous ULXs	Proposal title
observer	Mr. Andrew Sutton	Principal investigator
object	2XMM J120405.8+201345	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	181.024583	Observer's specified target RA [deg]
dec_targ	20.229167	Observer's specified target Dec [deg]
ra_nom	181.02599439471	Nominal RA [deg]
dec_nom	20.224530665716	Nominal Dec [deg]
roll_nom	255.06174153314	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5055.0915344357	Sum of GTIs [s]
livetime	4991.080921616	Livetime [s]
ontime2	5051.8916040659	Sum of GTIs [s]
ontime3	5054.9684144258	Sum of GTIs [s]
ontime5	5055.0504944324	Sum of GTIs [s]
ontime6	5055.0094544291	Sum of GTIs [s]
ontime7	5055.0915344357	Sum of GTIs [s]
ontime8	5054.9273744226	Sum of GTIs [s]
l2events	53578	Number of level 2 events



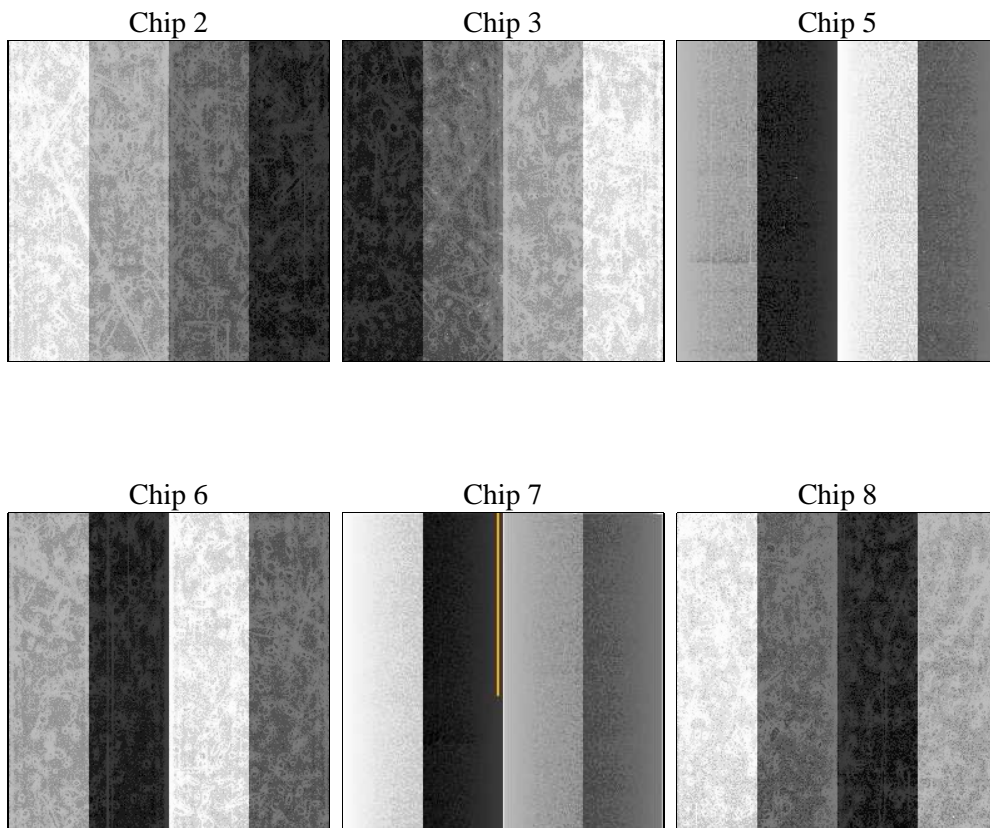
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	5055.0915344357	Sum of GTIs [s]
caldsver	4.4.8	 	ontime2	5051.8916040659	Sum of GTIs [s]
date	2012-03-19T12:16:56	Date and time of file creation	ontime3	5054.9684144258	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5055.0504944324	Sum of GTIs [s]
			ontime6	5055.0094544291	Sum of GTIs [s]
			ontime7	5055.0915344357	Sum of GTIs [s]
			ontime8	5054.9273744226	Sum of GTIs [s]
			l1events	218421	Number of level 1 events

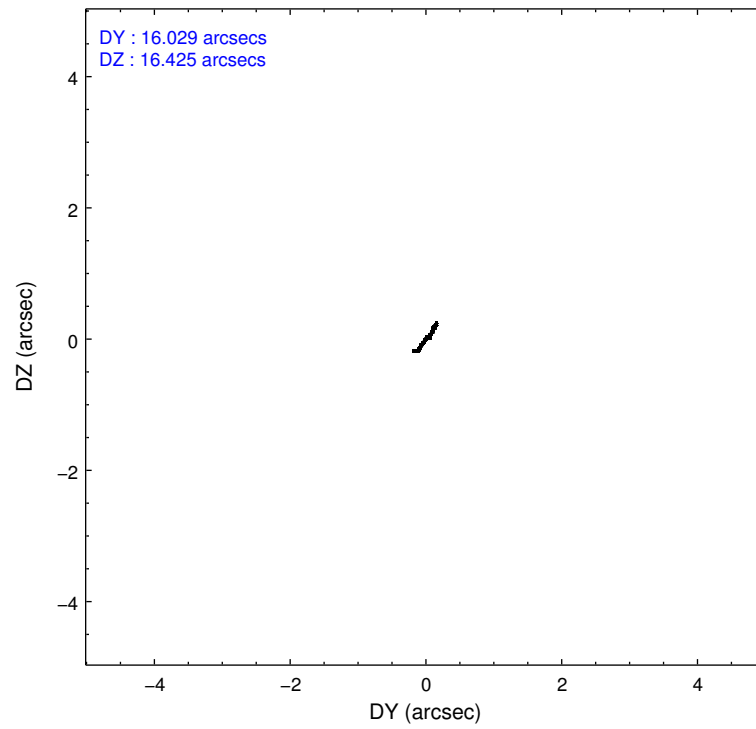
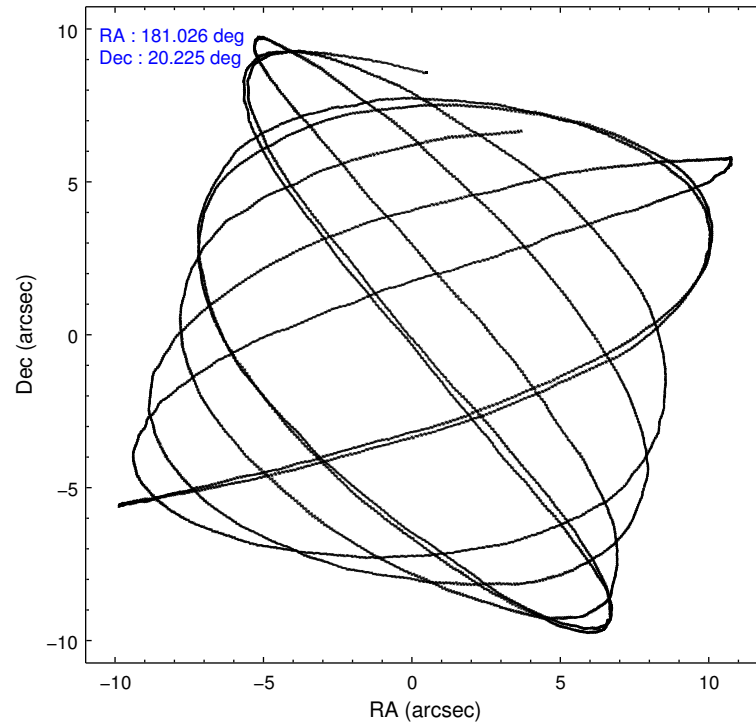
2.1.4 Events

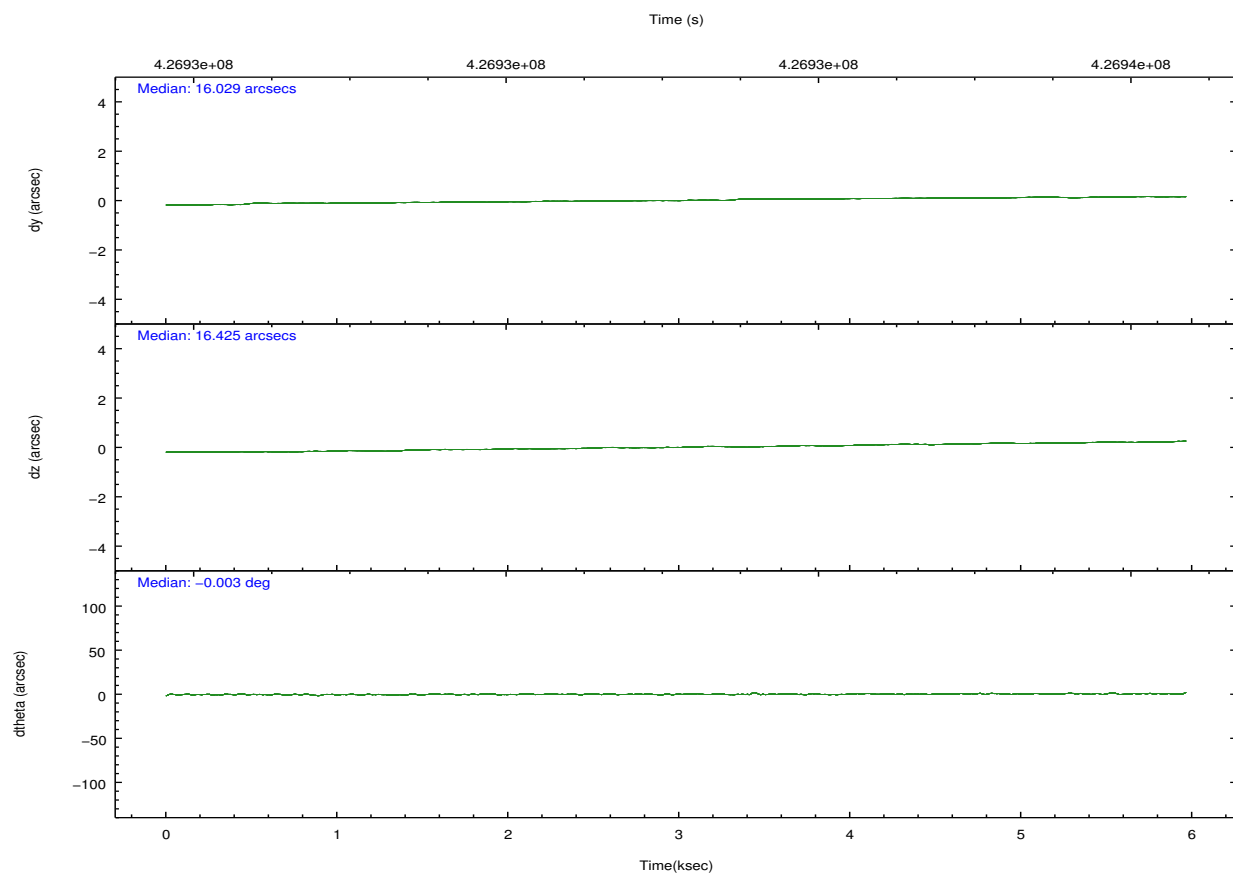
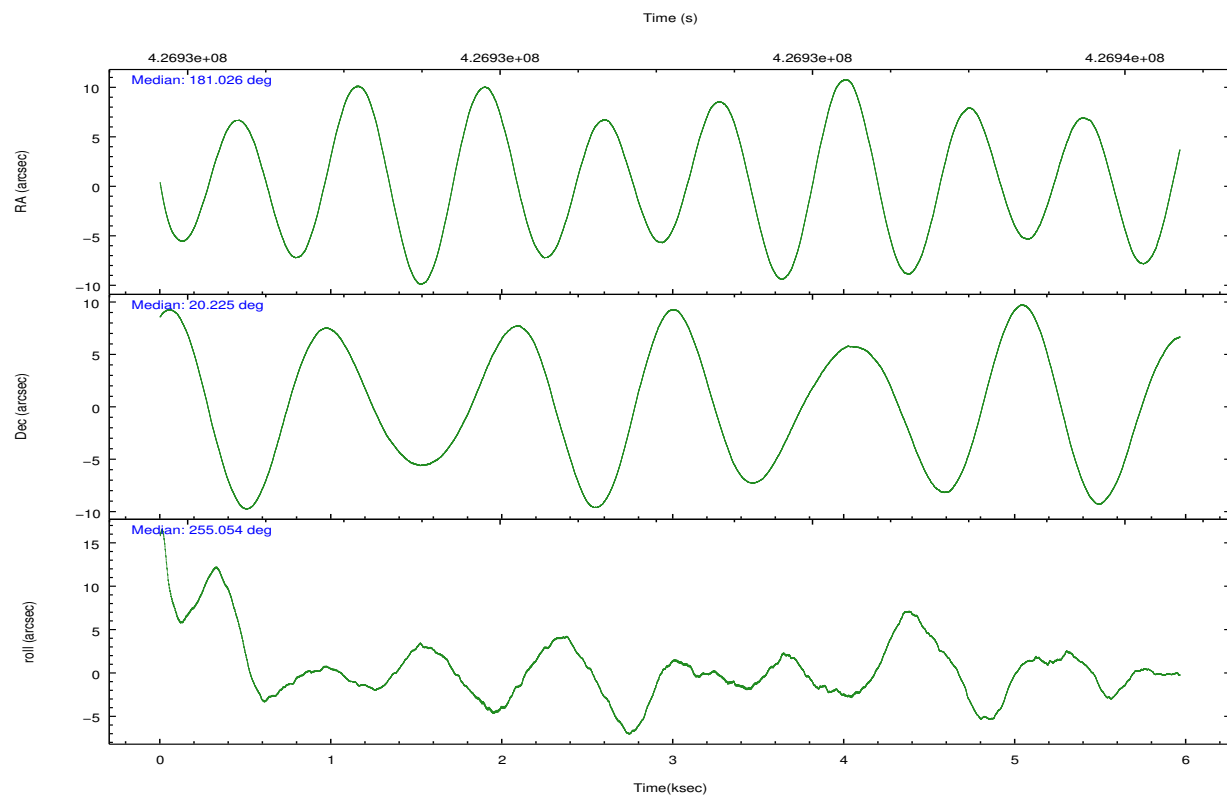
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	30900	28640	49958	30221	40126	38576	grade 0 events	1289	1197	4391	1412	2004	3492
rejected events	27474	25353	24172	26509	21188	27702		4%	4%	8%	4%	4%	9%
rejected %	88%	88%	48%	87%	52%	71%	grade 1 events	17	11	207	15	39	35
								0%	0%	0%	0%	0%	0%
							grade 2 events	817	694	7316	794	3975	2445
								2%	2%	14%	2%	9%	6%
							grade 3 events	322	357	925	359	1679	1035
								1%	1%	1%	1%	4%	2%
							grade 4 events	341	335	888	365	1680	1036
								1%	1%	1%	1%	4%	2%
							grade 5 events	1258	1421	3702	1481	4113	2095
								4%	4%	7%	4%	10%	5%
							grade 6 events	659	708	12280	782	9609	2869
								2%	2%	24%	2%	23%	7%
							grade 7 events	26197	23917	20249	25013	17027	25569
								84%	83%	40%	82%	42%	66%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	181.018116	181.0259943947142	CCD I2 on	O3	Y
[deg] Pointing Dec	20.250822	20.22453066571623	CCD I3 on	O2	Y
[deg] Pointing Roll	254.907829	255.0617415331371	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O4	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O1	Y
[s] Observation start time (MET)	426931079.184000	426929681.6042	CCD S5 on	N	N
Observation start date	2011-07-13T07:56:53	2011-07-13T07:34:41	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	426936079.184000	426937054.94209	On-chip summing requested	N	N
Observation end date	2011-07-13T09:20:13	2011-07-13T09:37:34	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



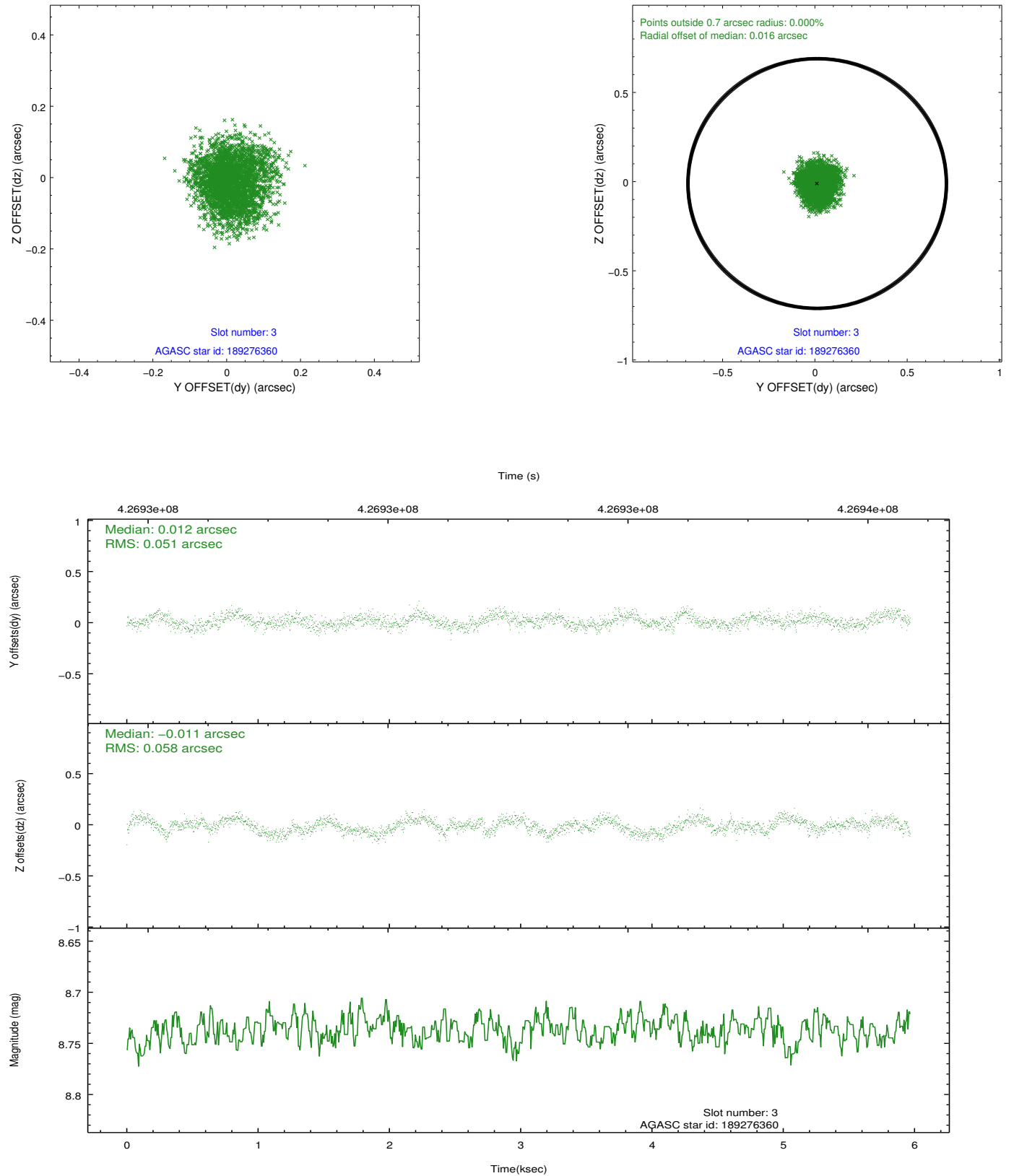


Slot Statistics

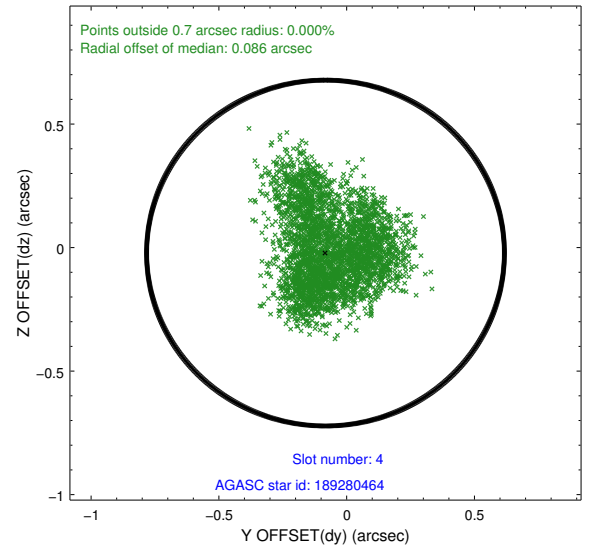
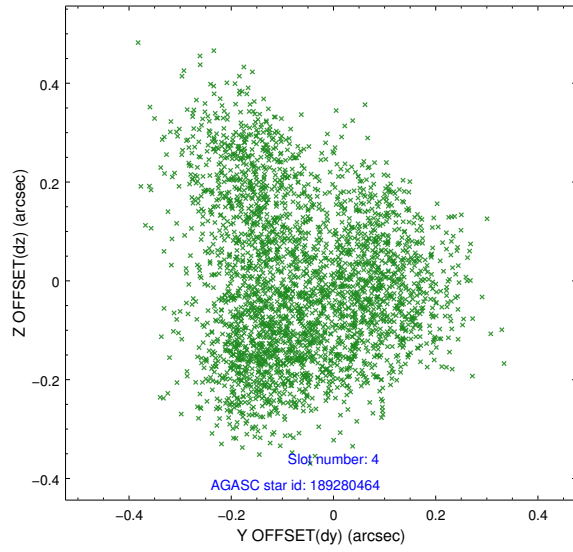
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.84	1455	-0.112	-0.026	0.008	0.013	0.000000	0.000000	-769.17	-1737.86
1	FID	ACIS-S-4	6.92	1455	0.253	0.061	0.006	0.011	0.000000	0.000000	2144.04	169.62
2	FID	ACIS-S-5	6.95	1455	-0.173	-0.026	0.008	0.012	0.000000	0.000000	-1820.77	164.41
3	GUIDE	189276360	8.74	2911	0.012	-0.011	0.085	0.130	181.267785	20.224209	-127.37	839.48
4	GUIDE	189280464	9.72	2908	-0.083	-0.022	0.222	0.333	180.585642	20.791027	-1499.97	-1911.99
5	GUIDE	189283144	9.51	2911	-0.064	0.028	0.138	0.209	181.301683	19.636593	1883.44	1503.85
6	GUIDE	189286352	9.63	2906	0.120	0.102	0.109	0.179	181.279345	19.554361	2191.67	1506.50
7	GUIDE	189280976	9.76	2897	-0.015	-0.109	0.154	0.259	180.297398	20.298875	462.88	-2395.13

2.4 Star Slots

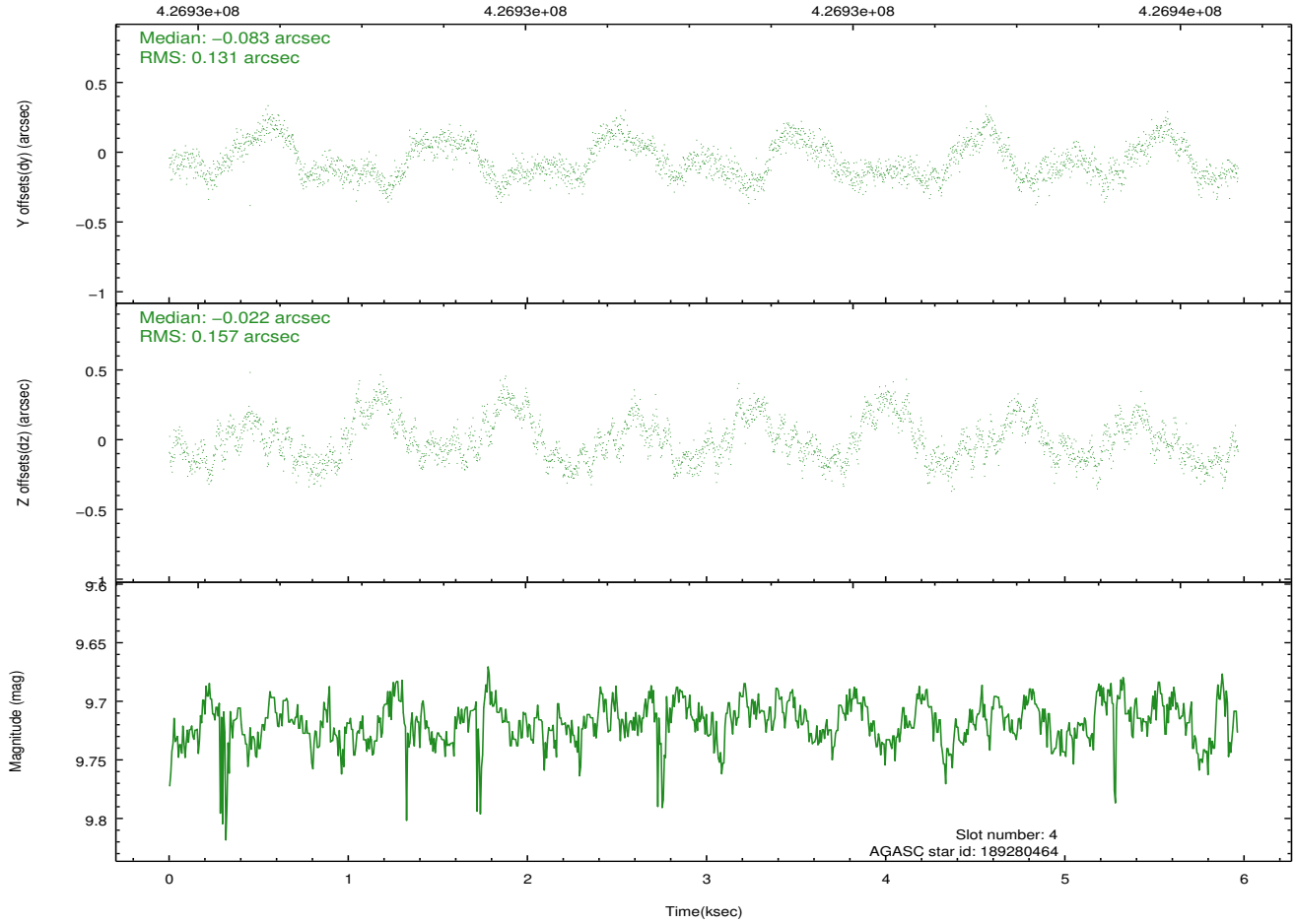
2.4.1 Slot 3



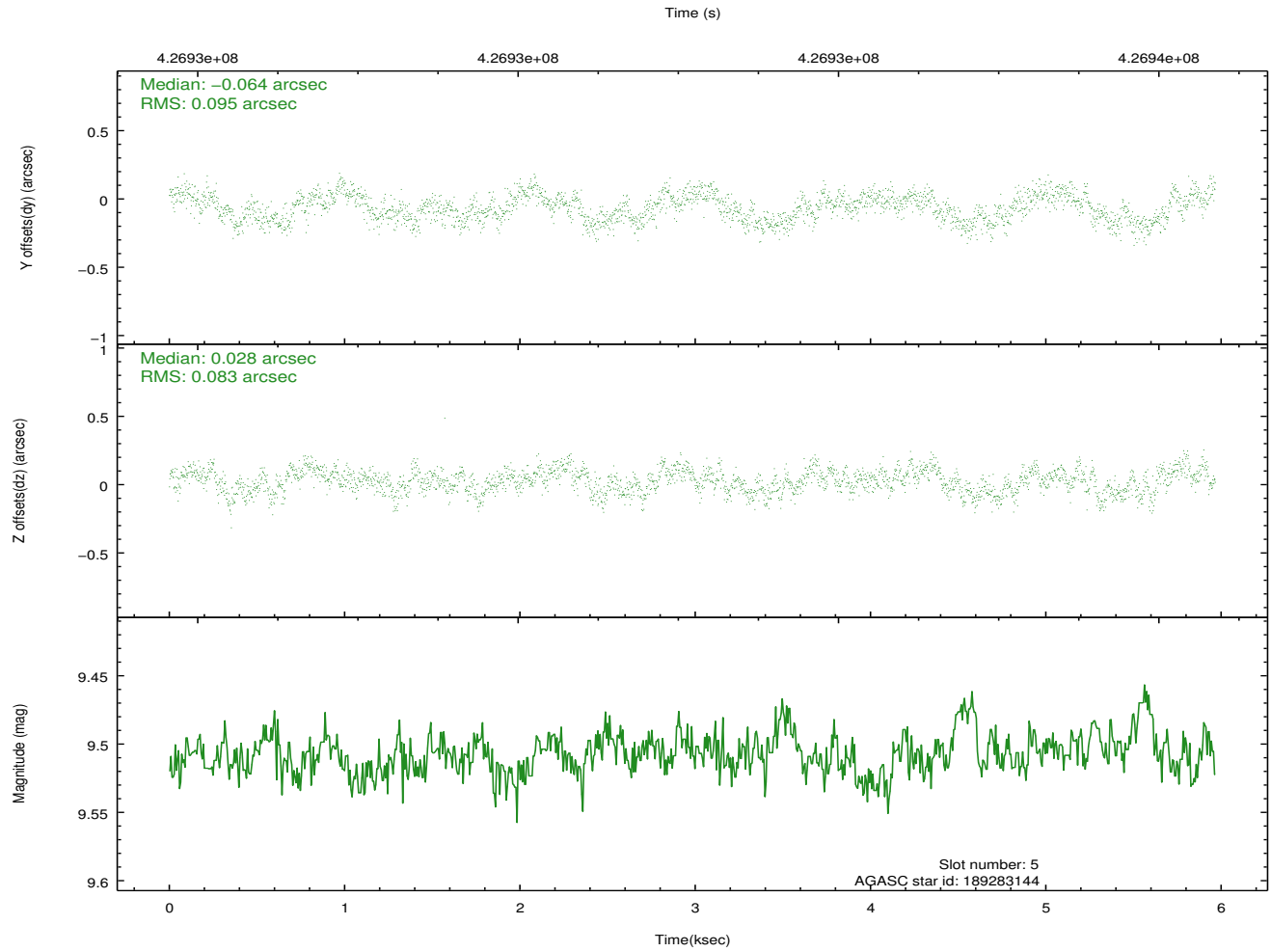
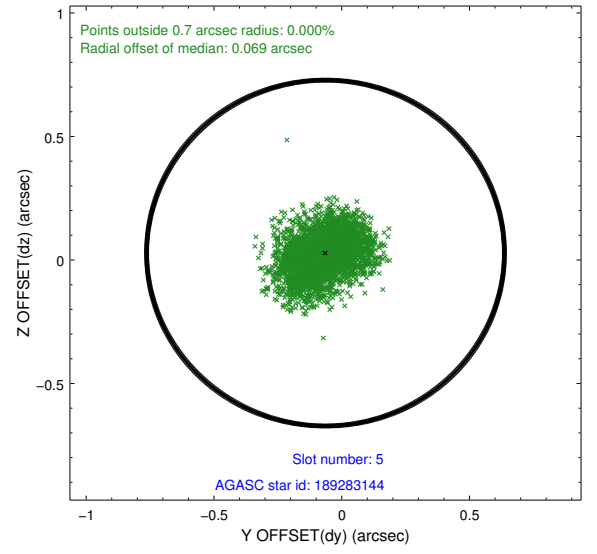
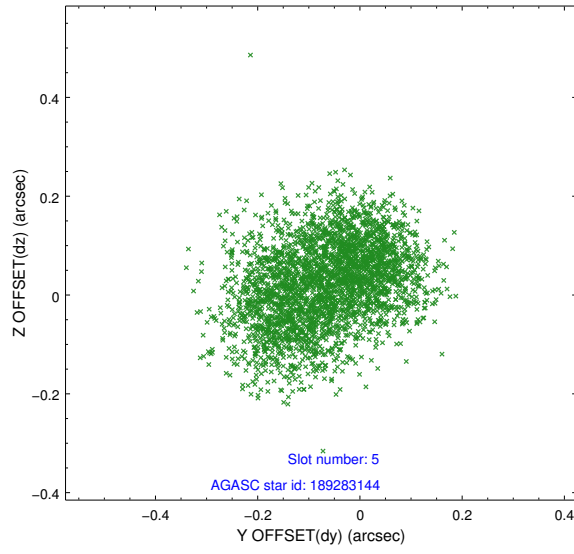
2.4.2 Slot 4



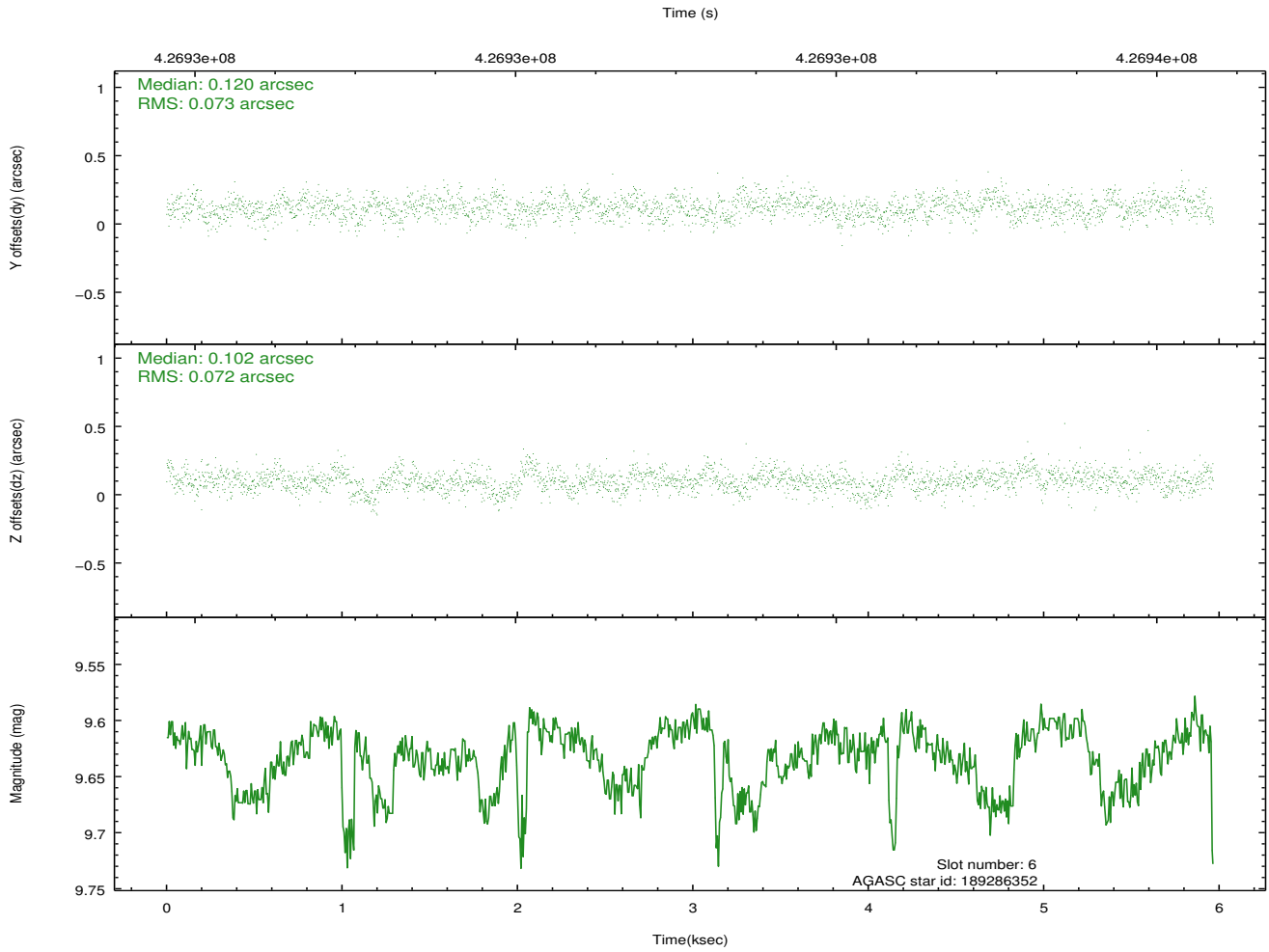
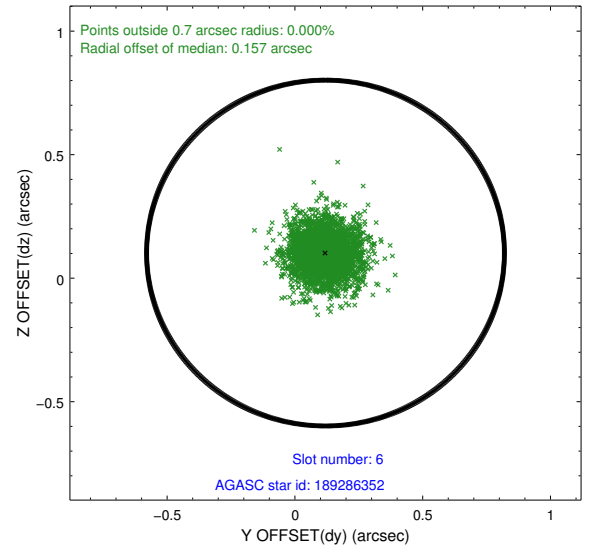
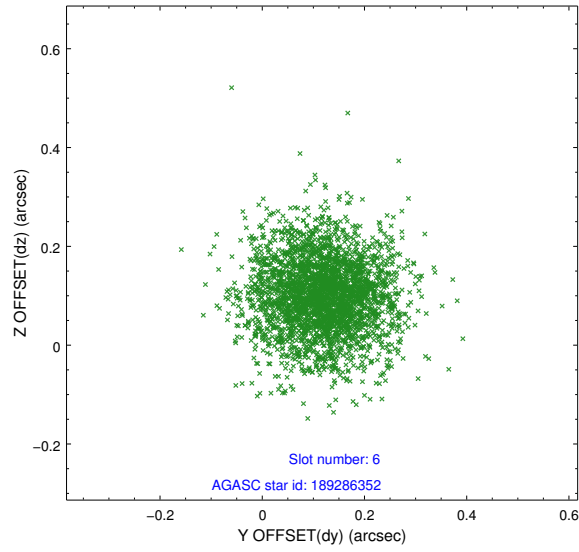
Time (s)



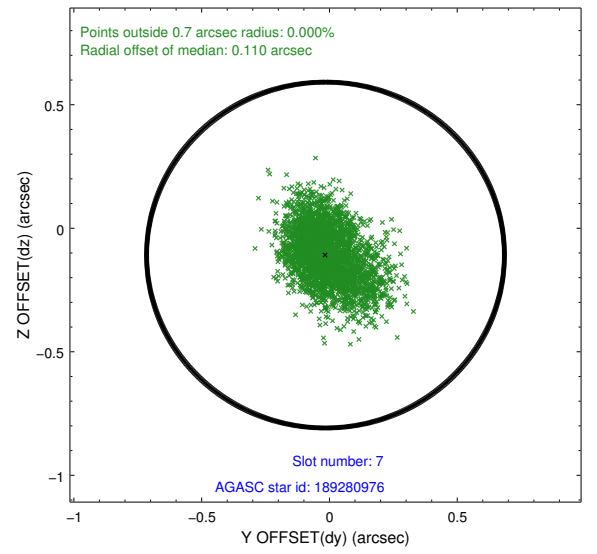
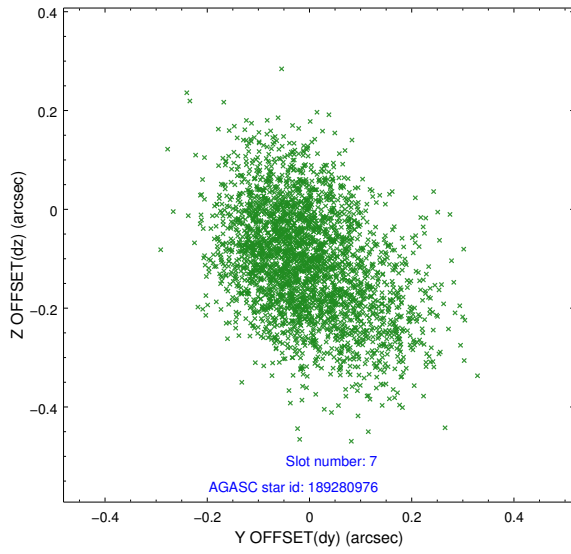
2.4.3 Slot 5



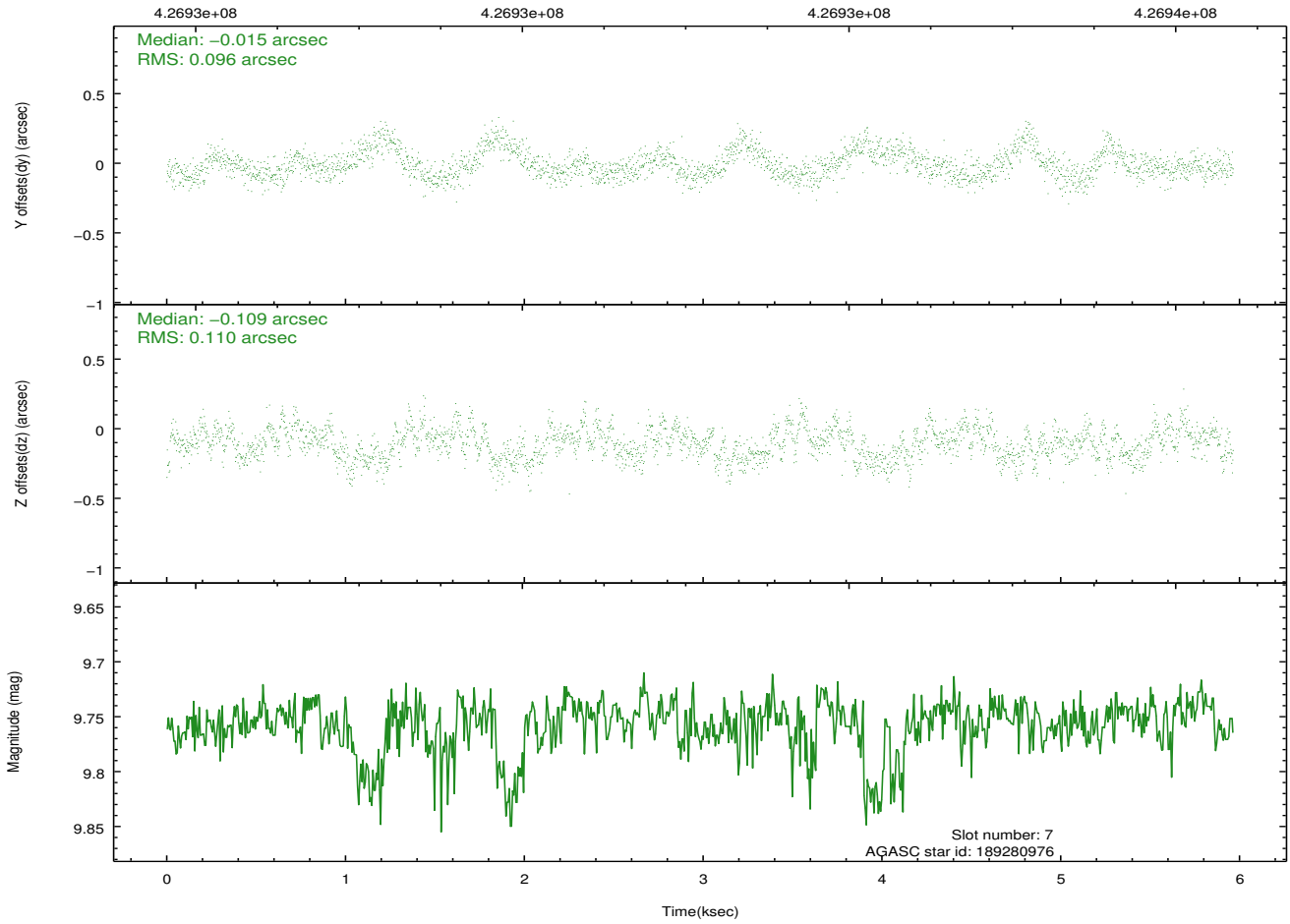
2.4.4 Slot 6



2.4.5 Slot 7

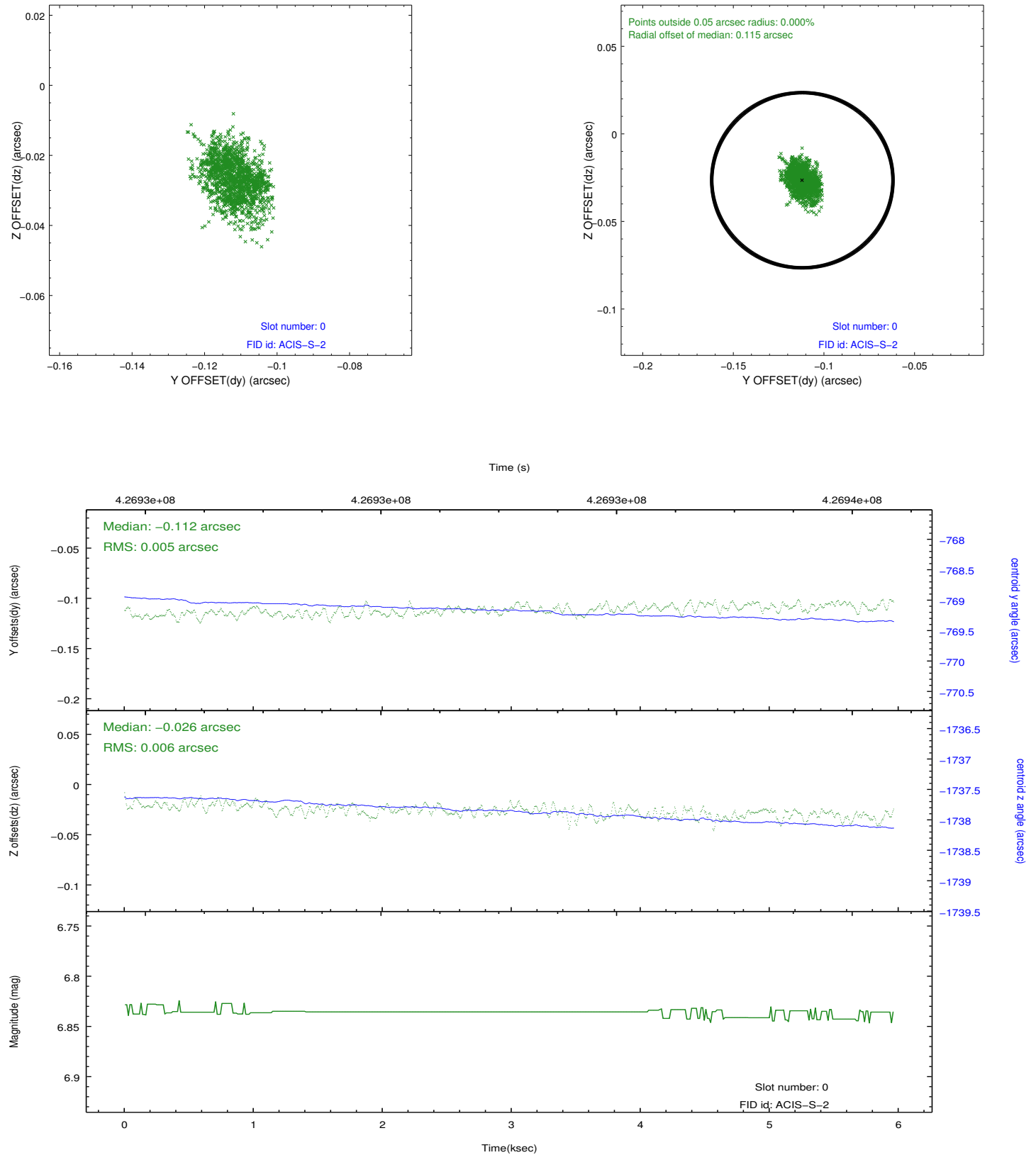


Time (s)

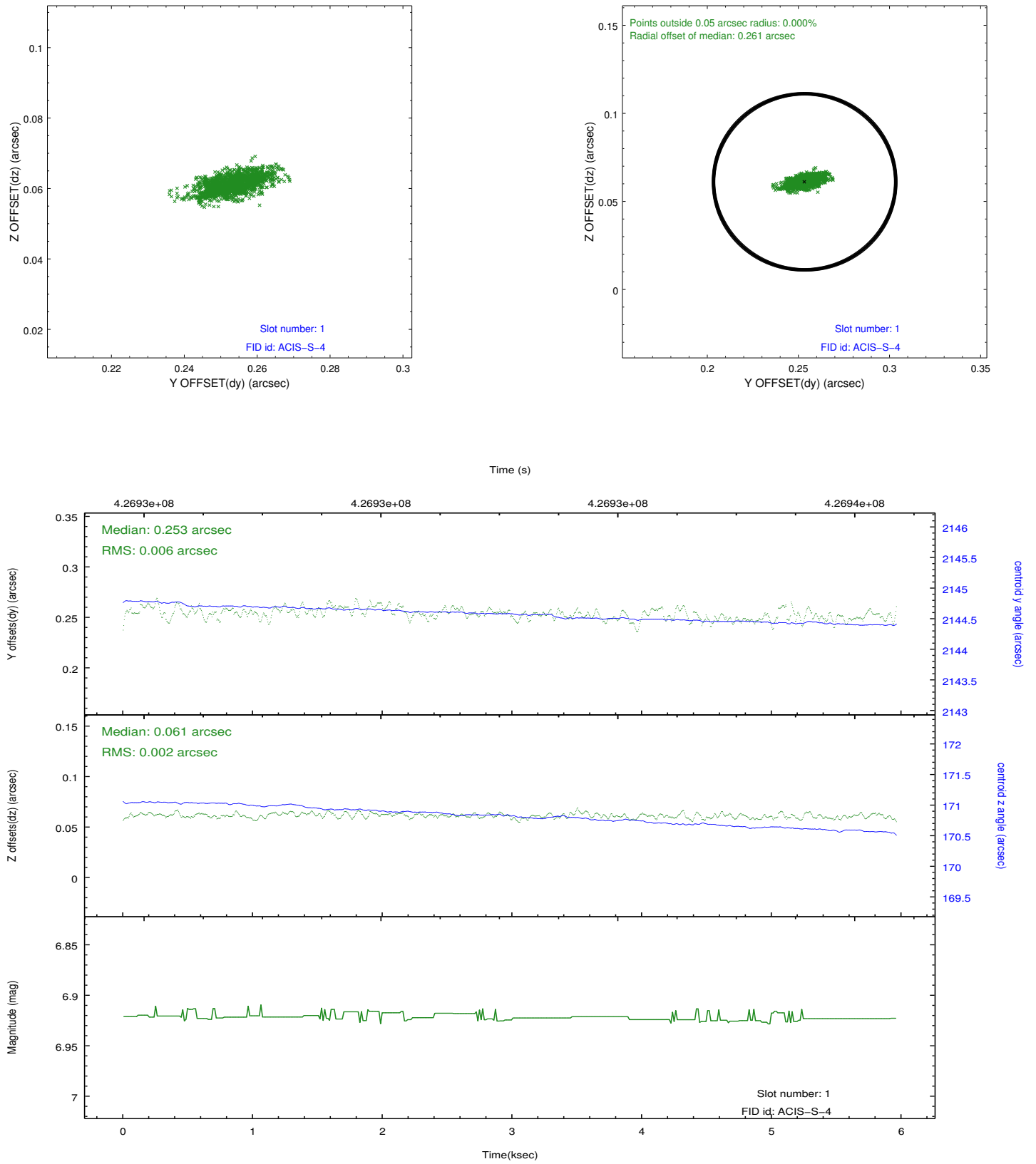


2.5 FID Slots

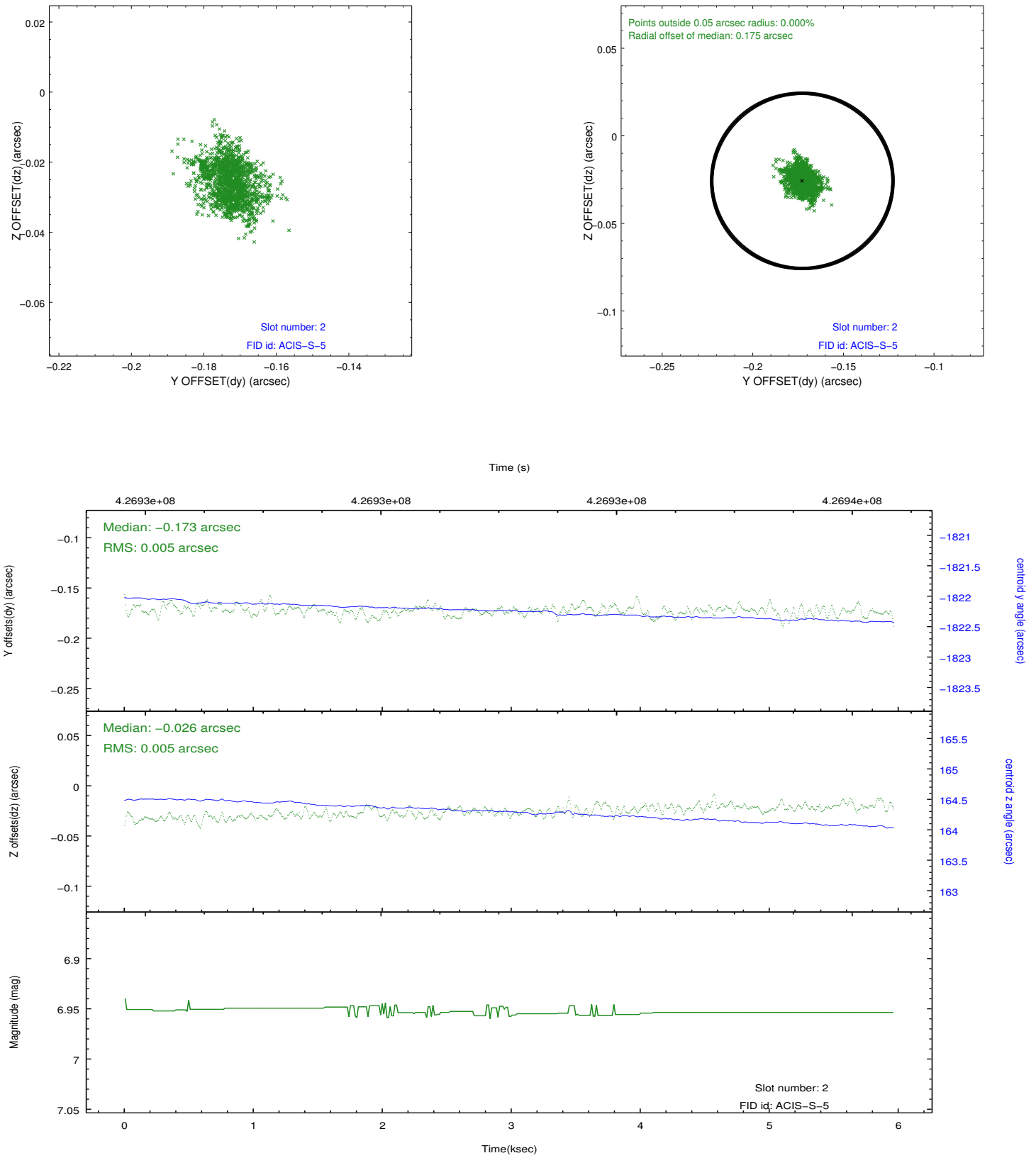
2.5.1 Slot 0



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)	2012.03.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0550915333629

A.2 Comments