

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 16018 - L2 Version 2
Chandra X-Ray Center

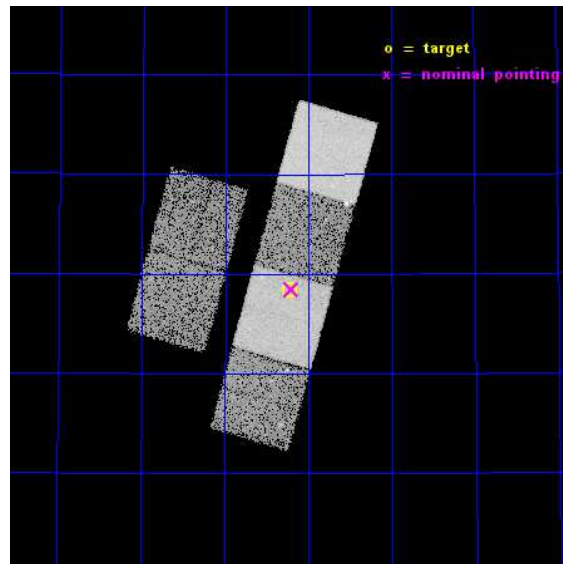
L2 Processing Date : Dec 8 2014

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1 Front

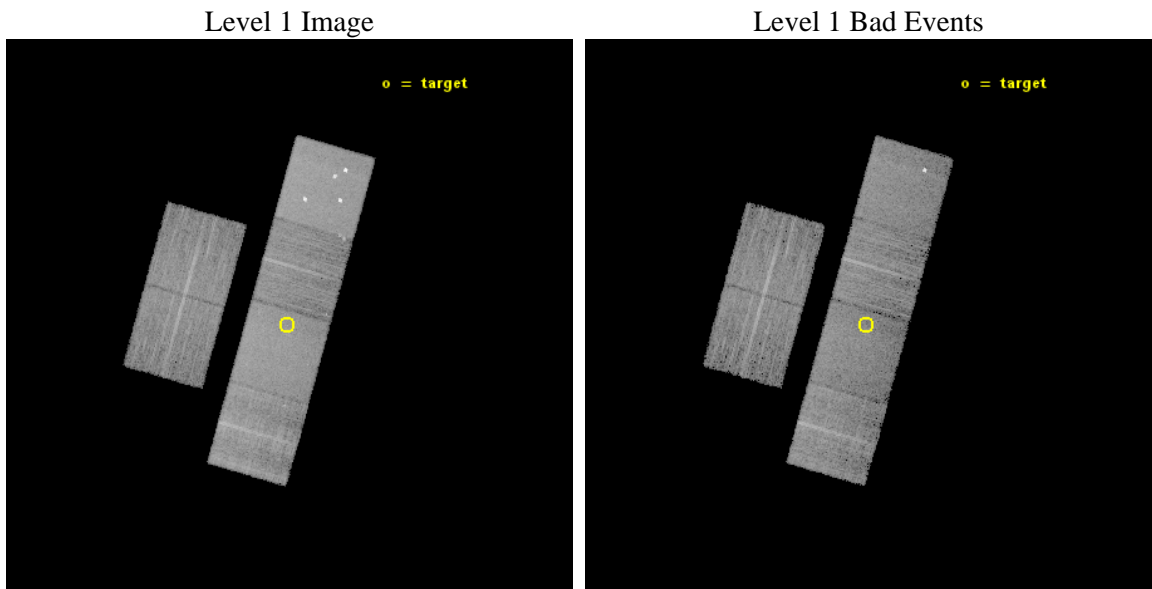
seq_num	601106	Sequence number
obs_id	16018	Observation id
title	X-Rays from Lyman Break Analog	Proposal title
observer	Prof. Philip Kaaret	Principal investigator
object	SDSS J093813.50+542825.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	144.55625	Observer's specified target RA [deg]
dec_targ	54.473639	Observer's specified target Dec [deg]
ra_nom	144.55121934383	Nominal RA [deg]
dec_nom	54.474476803171	Nominal Dec [deg]
roll_nom	105.818079071	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15663.999941707	Sum of GTIs [s]
livetime	15465.652942716	Livetime [s]
ontime2	15663.999941707	Sum of GTIs [s]
ontime3	15663.999941707	Sum of GTIs [s]
ontime5	15663.999941707	Sum of GTIs [s]
ontime6	15663.999941707	Sum of GTIs [s]
ontime7	15663.999941707	Sum of GTIs [s]
ontime8	15663.999941707	Sum of GTIs [s]
l2events	131286	Number of level 2 events



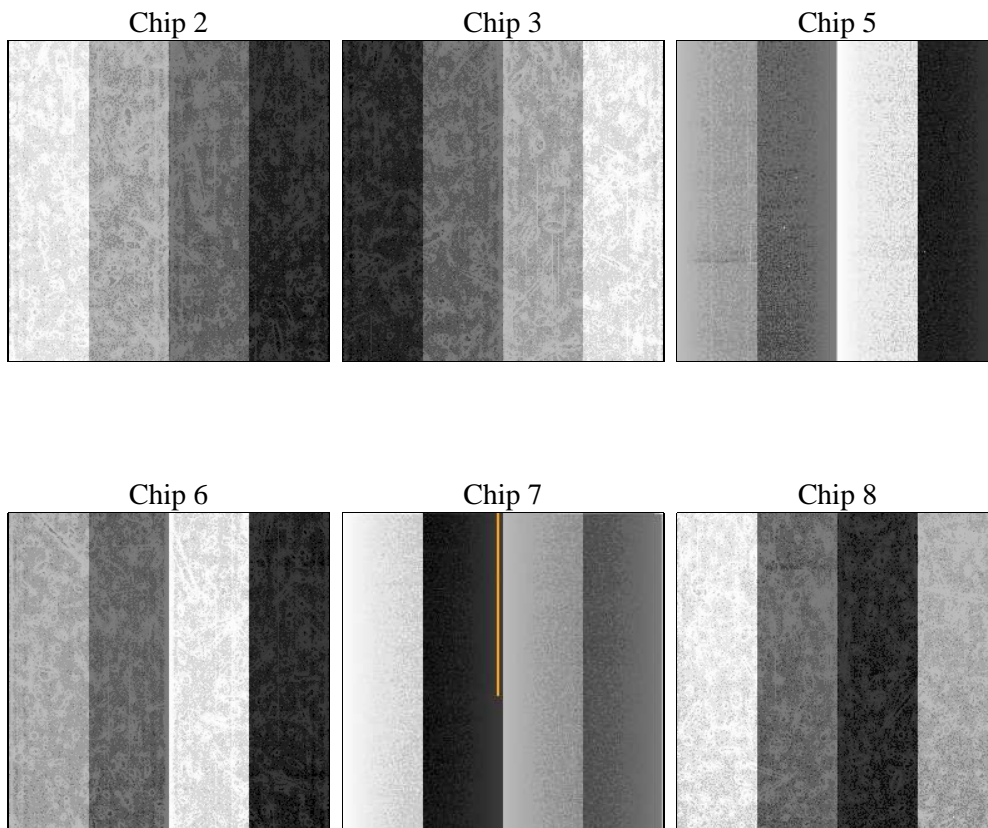
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15700.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	15663.999941707	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	15663.999941707	Sum of GTIs [s]
date	2014-12-08T13:13:51	Date and time of file creation	ontime3	15663.999941707	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	15663.999941707	Sum of GTIs [s]
			ontime6	15663.999941707	Sum of GTIs [s]
			ontime7	15663.999941707	Sum of GTIs [s]
			ontime8	15663.999941707	Sum of GTIs [s]
			l1events	558055	Number of level 1 events

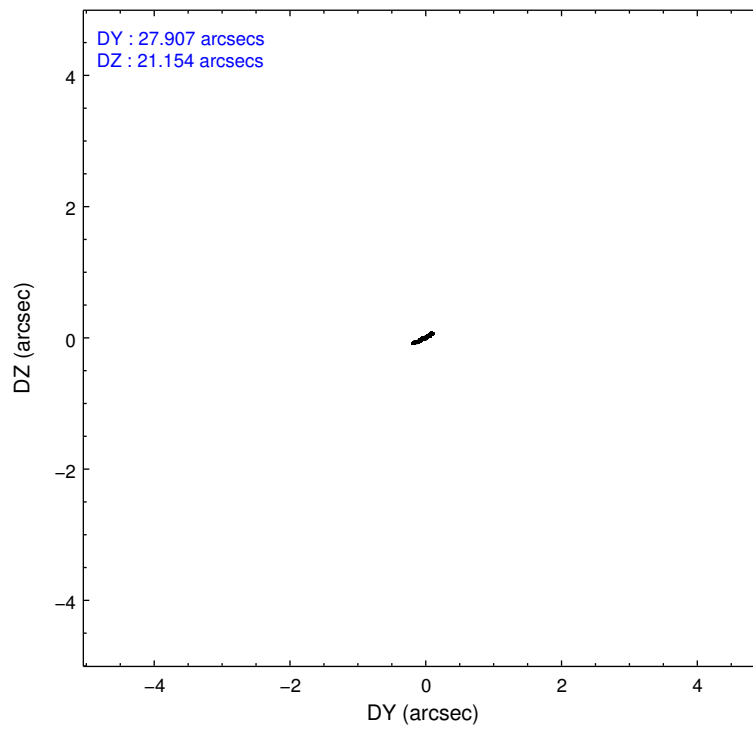
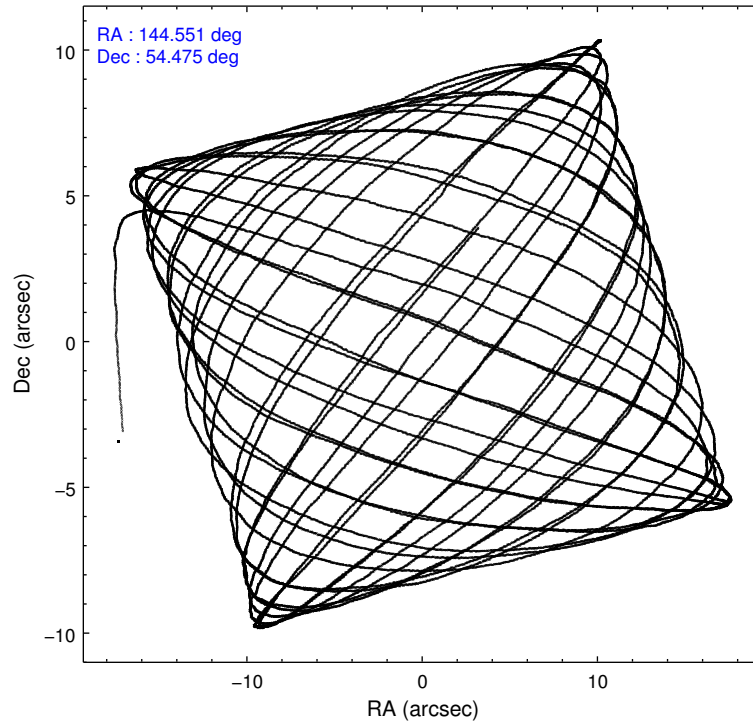
2.1.4 Events

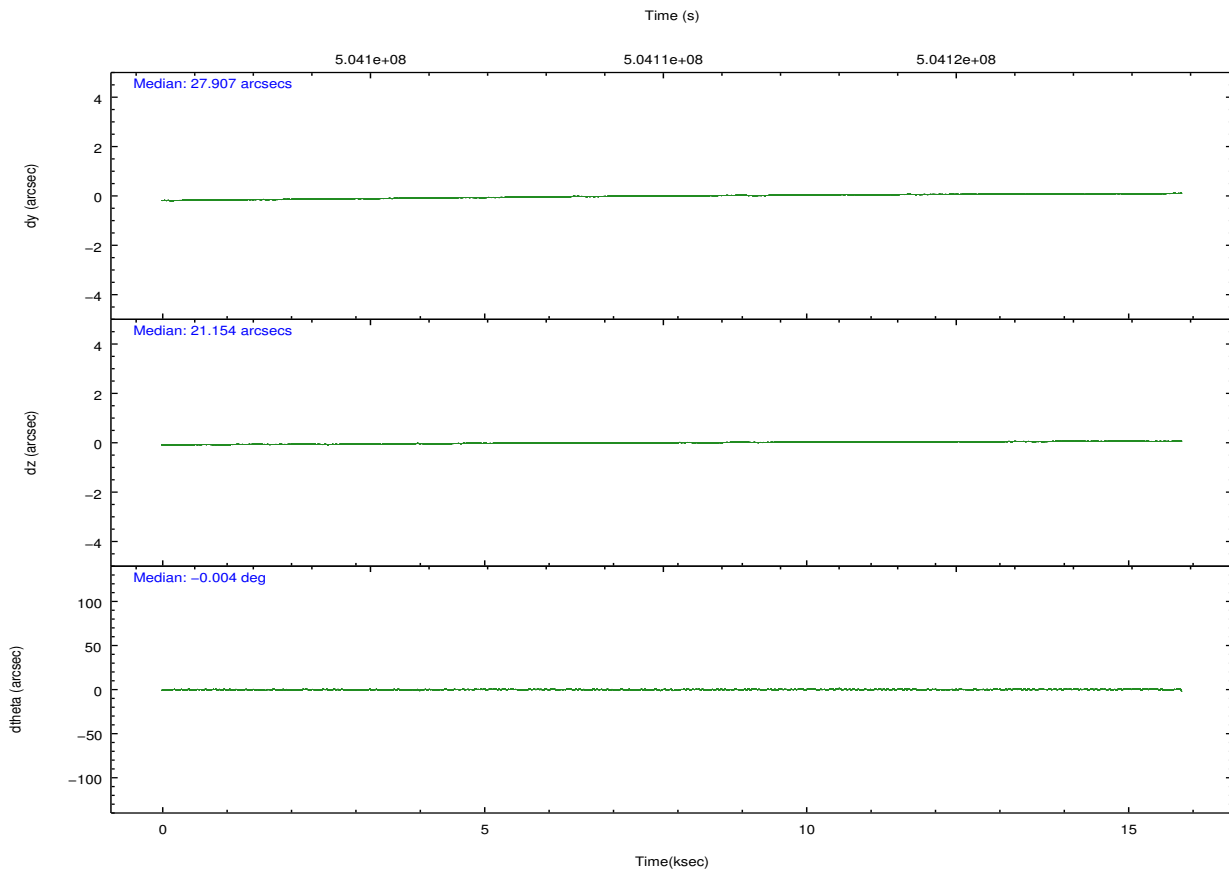
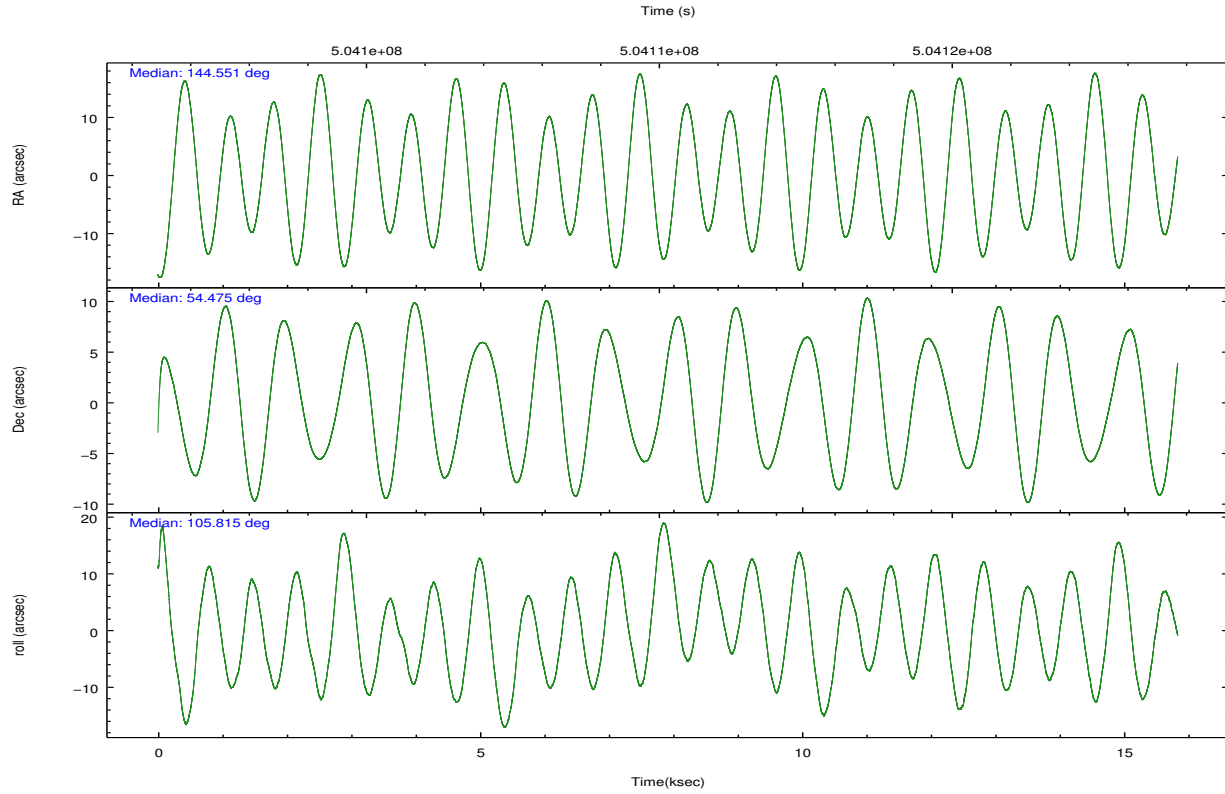
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	74958	69541	136783	75485	103425	97863	grade 0 events	2876	2787	14128	3348	3852	6988
rejected events	66602	61367	67116	65965	58894	72494		3%	4%	10%	4%	3%	7%
rejected %	88%	88%	49%	87%	56%	74%	grade 1 events	46	42	339	32	116	67
								0%	0%	0%	0%	0%	0%
							grade 2 events	2048	1859	19378	2093	9272	6187
								2%	2%	14%	2%	8%	6%
							grade 3 events	805	909	1953	947	3719	2695
								1%	1%	1%	1%	3%	2%
							grade 4 events	863	876	1823	960	3648	2590
								1%	1%	1%	1%	3%	2%
							grade 5 events	3412	3934	9370	4111	10610	5594
								4%	5%	6%	5%	10%	5%
							grade 6 events	1766	1746	32420	2173	24056	6918
								2%	2%	23%	2%	23%	7%
							grade 7 events	63142	57388	57372	61821	48152	66824
								84%	82%	41%	81%	46%	68%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	144.585431	144.5512193438328	CCD I2 on	O2	Y
[deg] Pointing Dec	54.455714	54.47447680317121	CCD I3 on	O3	Y
[deg] Pointing Roll	105.633617	105.818079070997	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	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	O4	Y
[s] Observation start time (MET)	504102363.184000	504100819.8114	CCD S5 on	N	N
Observation start date	2013-12-22T12:24:56	2013-12-22T12:00:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	504118063.184000	504118839.31239	On-chip summing requested	N	N
Observation end date	2013-12-22T16:46:36	2013-12-22T17:00:39	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





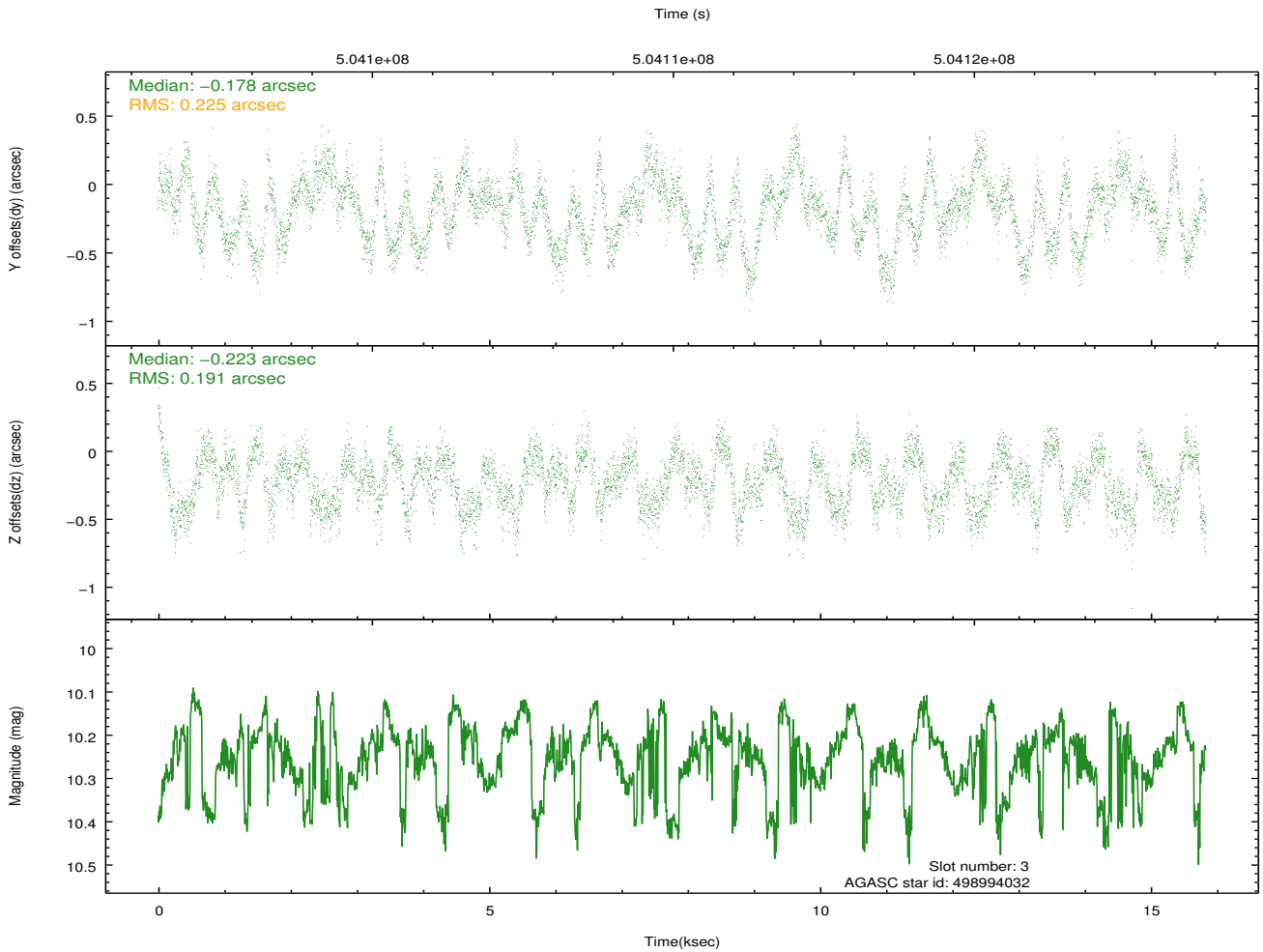
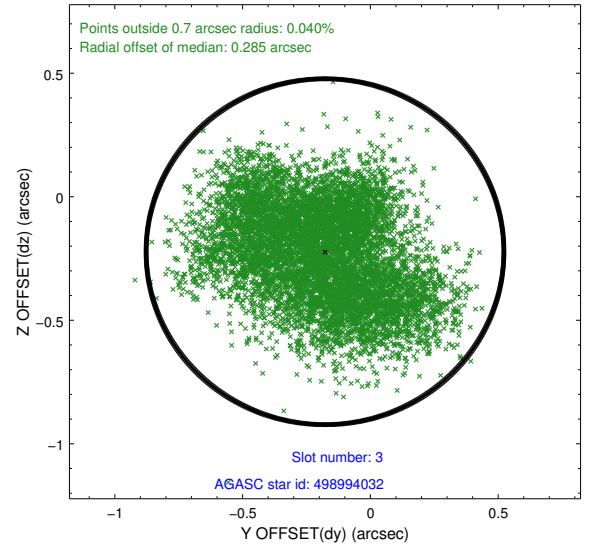
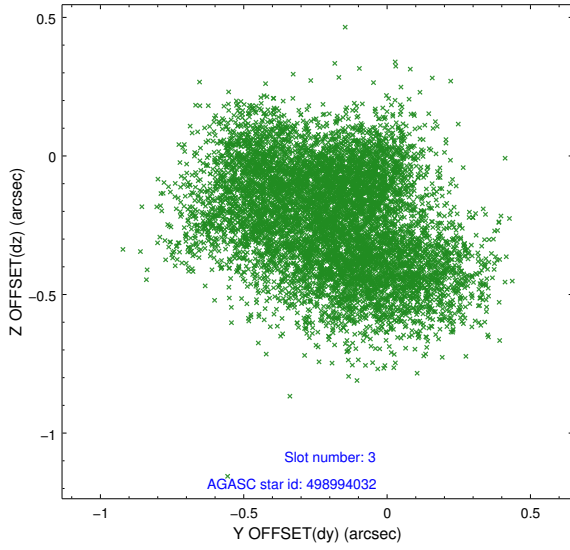
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.04	3862	-0.203	-0.043	0.007	0.013	0.000000	0.000000	-781.40	-1742.74
1	FID		ACIS-S-4	7.14	3863	0.452	0.110	0.007	0.013	0.000000	0.000000	2132.39	165.61
2	FID		ACIS-S-5	7.16	3863	-0.280	-0.058	0.007	0.012	0.000000	0.000000	-1833.98	159.42
3	GUIDE	used	498994032	10.25	7503	-0.178	-0.223	0.322	0.496	143.397118	54.829991	1981.70	2004.18
4	GUIDE	used	498996848	8.18	7720	0.117	0.291	0.115	0.179	145.268736	53.915733	-2255.01	-872.75
5	GUIDE	used	498997152	9.20	7716	-0.007	-0.255	0.130	0.209	144.353302	54.280470	-475.54	639.64
6	GUIDE	used	499000472	8.12	7725	-0.146	-0.218	0.114	0.180	144.141103	54.122215	-899.95	1225.35
7	GUIDE	used	498994856	6.94	7725	0.221	0.418	0.109	0.174	145.779010	54.363703	-973.05	-2326.02

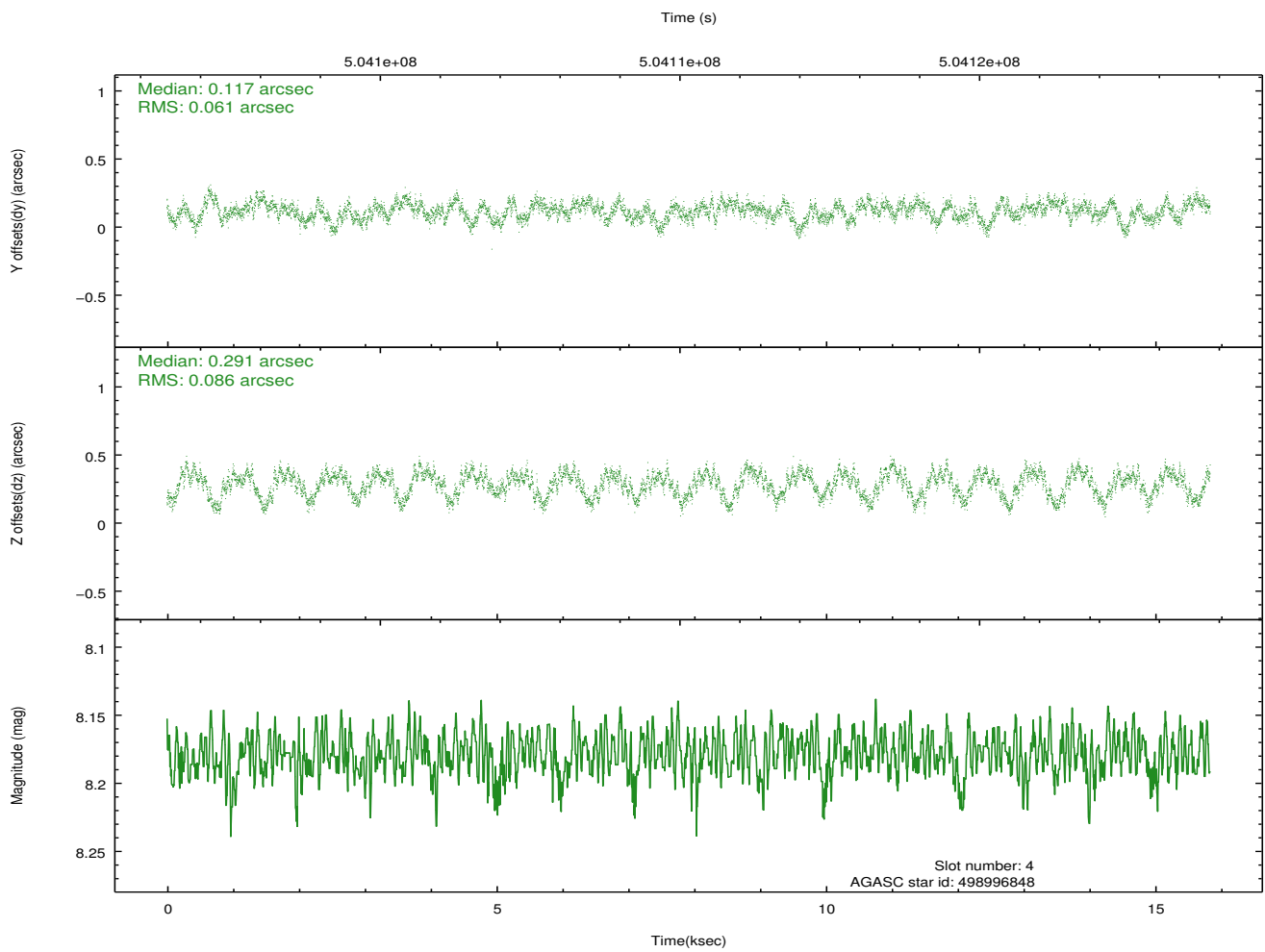
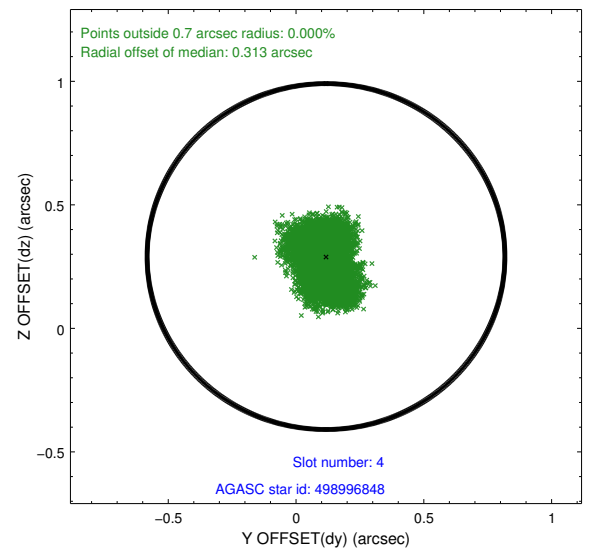
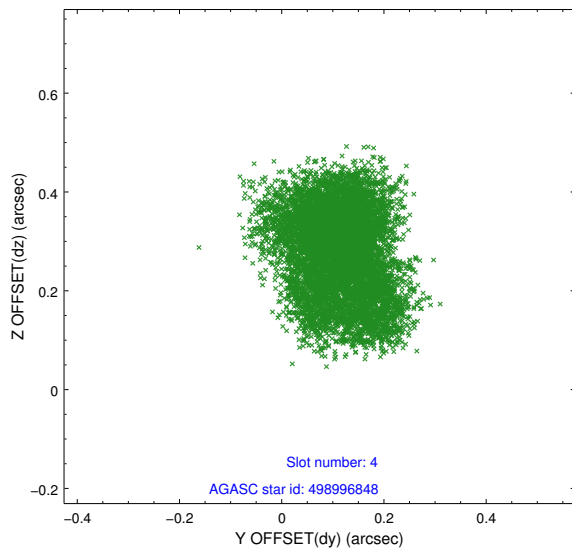
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2.4 Star Slots

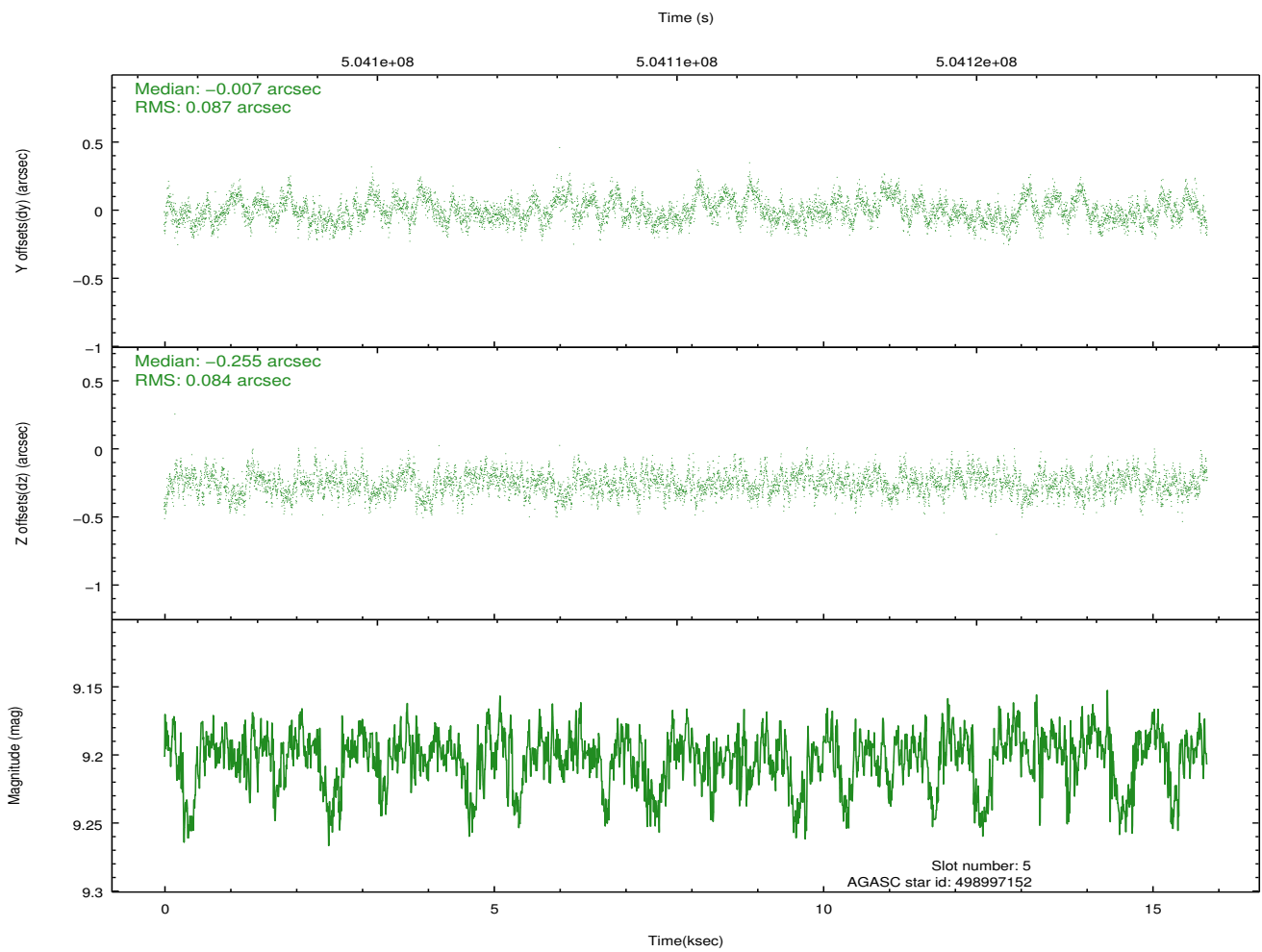
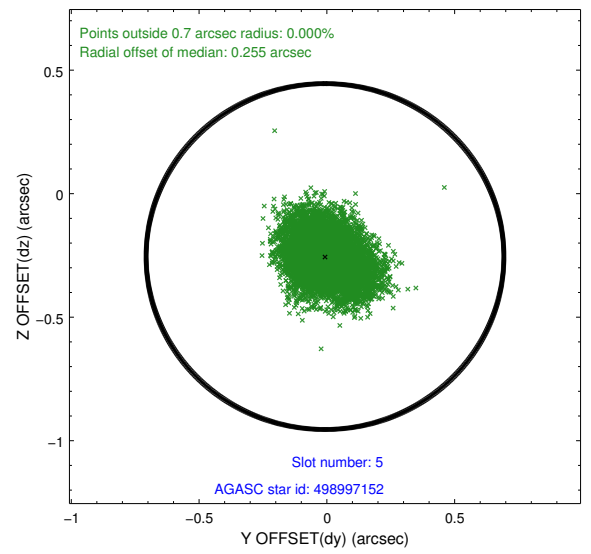
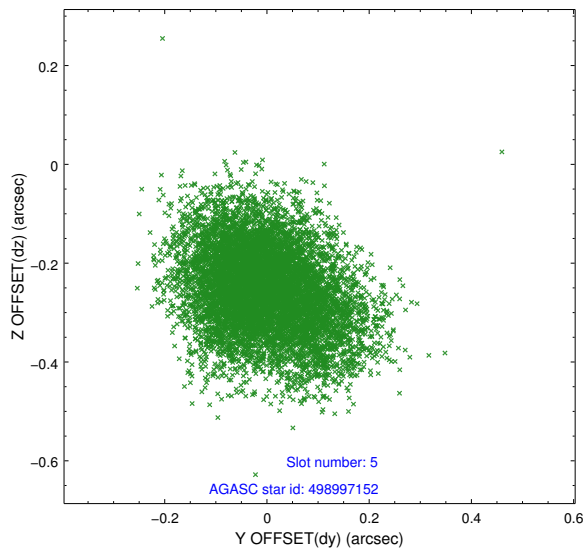
2.4.1 Slot 3



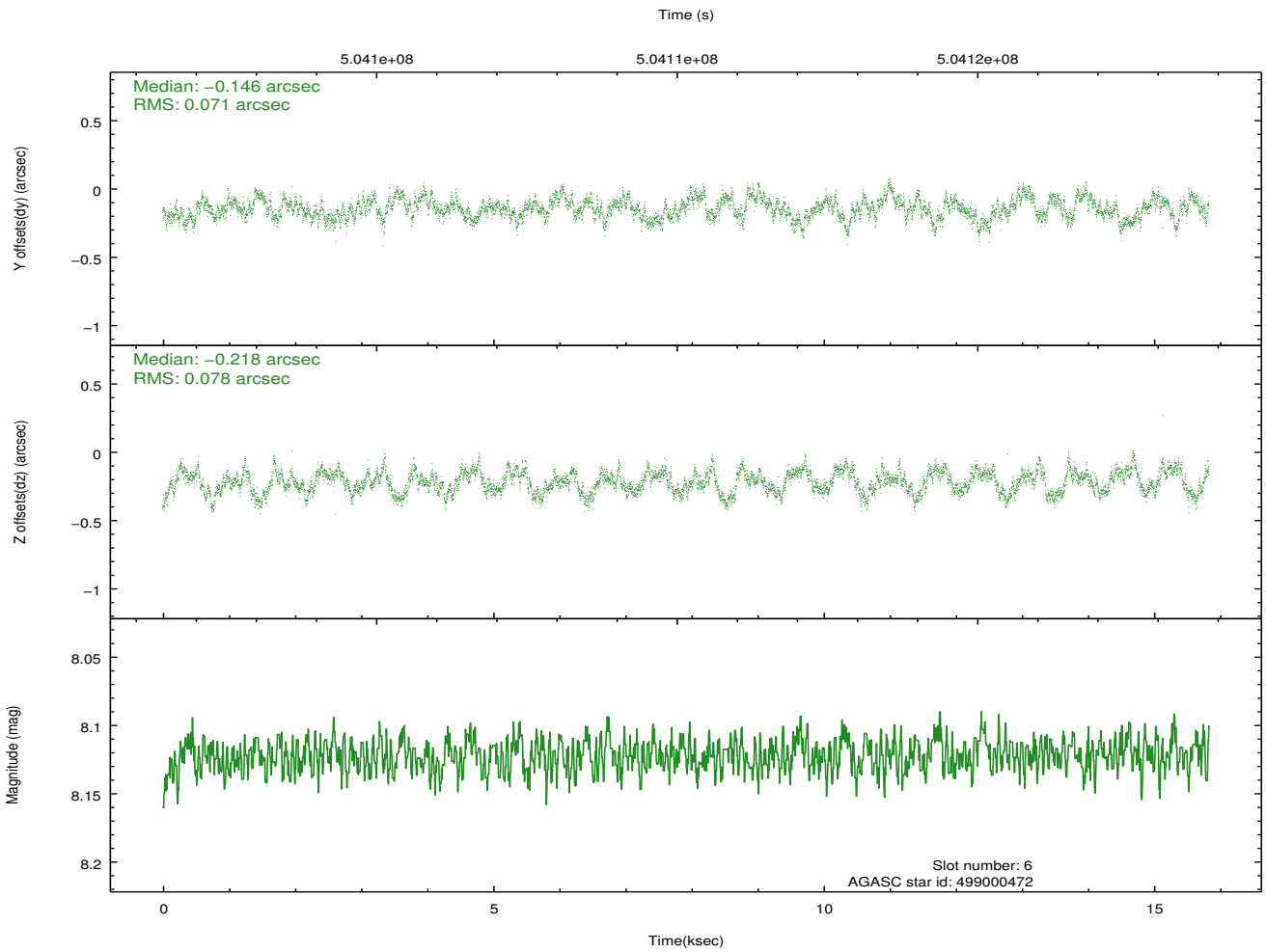
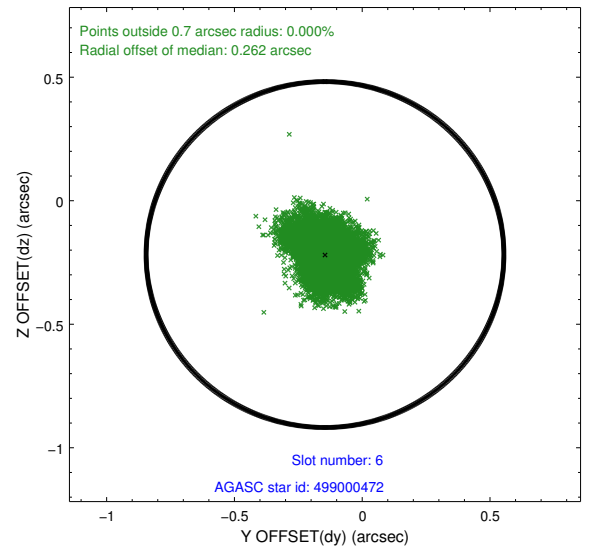
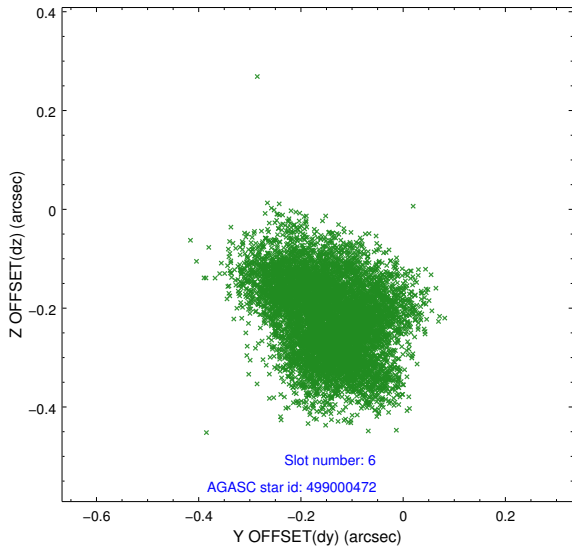
2.4.2 Slot 4



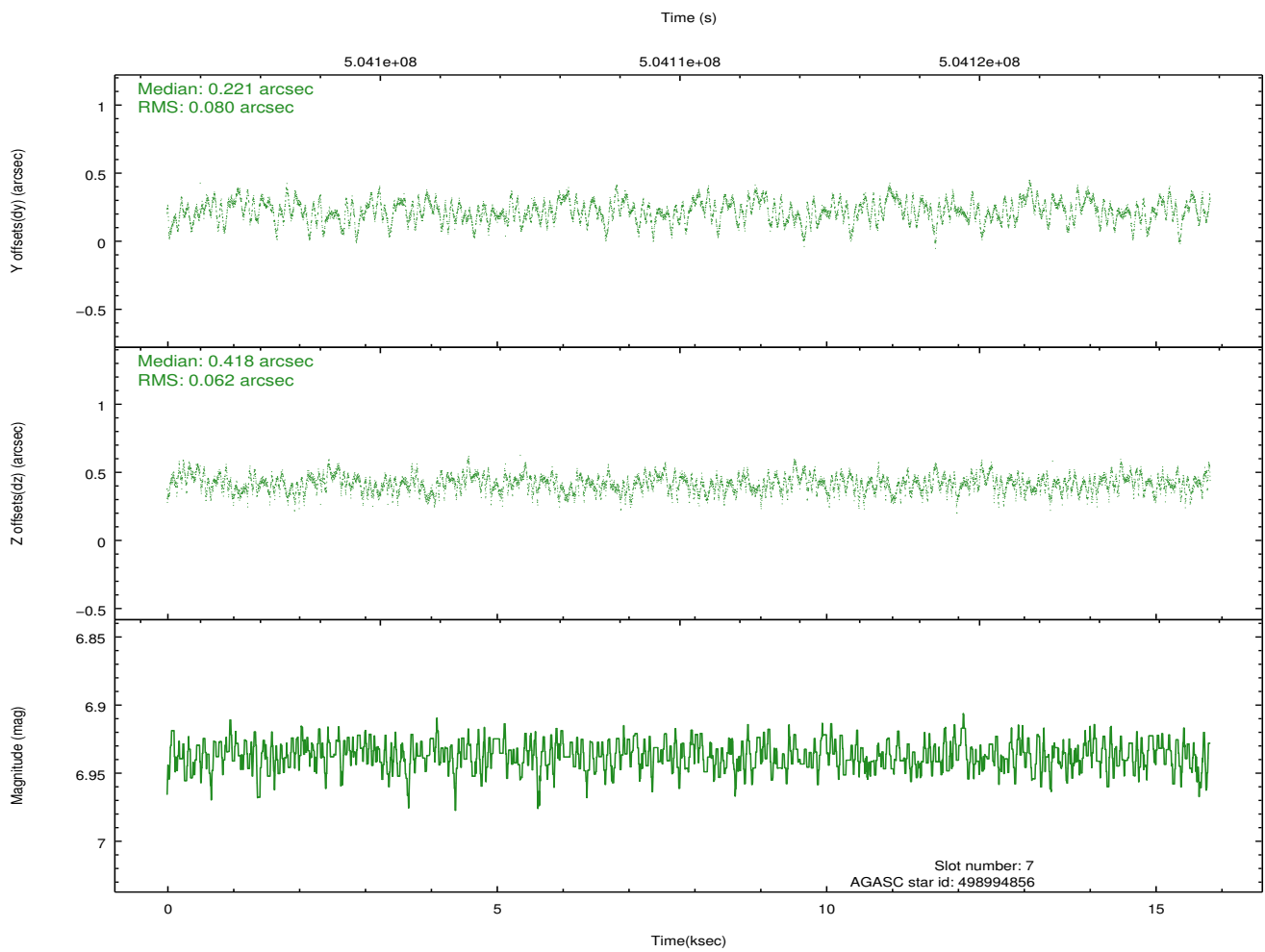
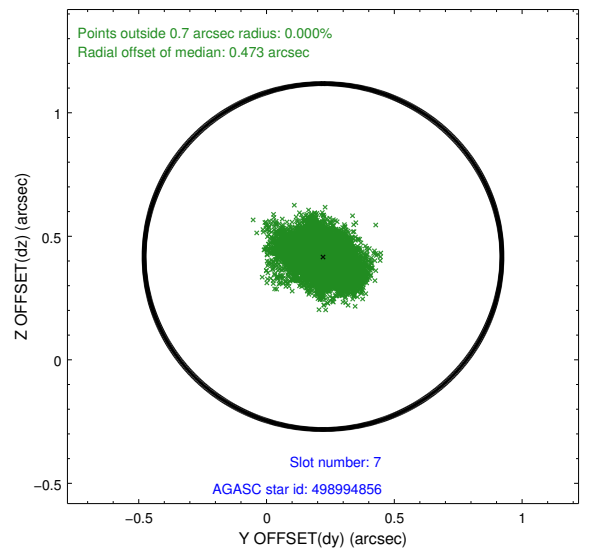
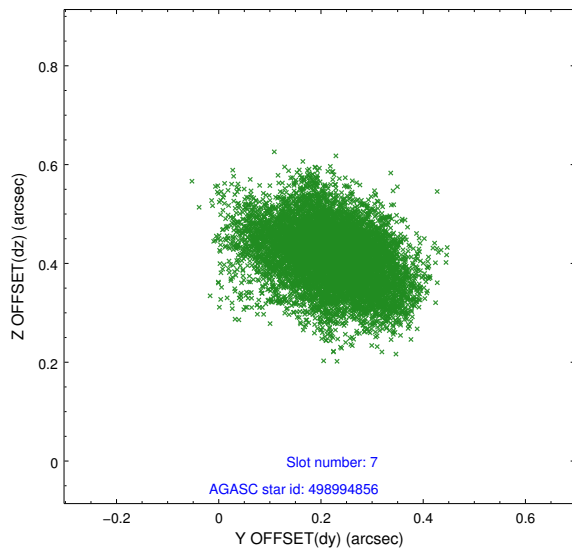
2.4.3 Slot 5



2.4.4 Slot 6

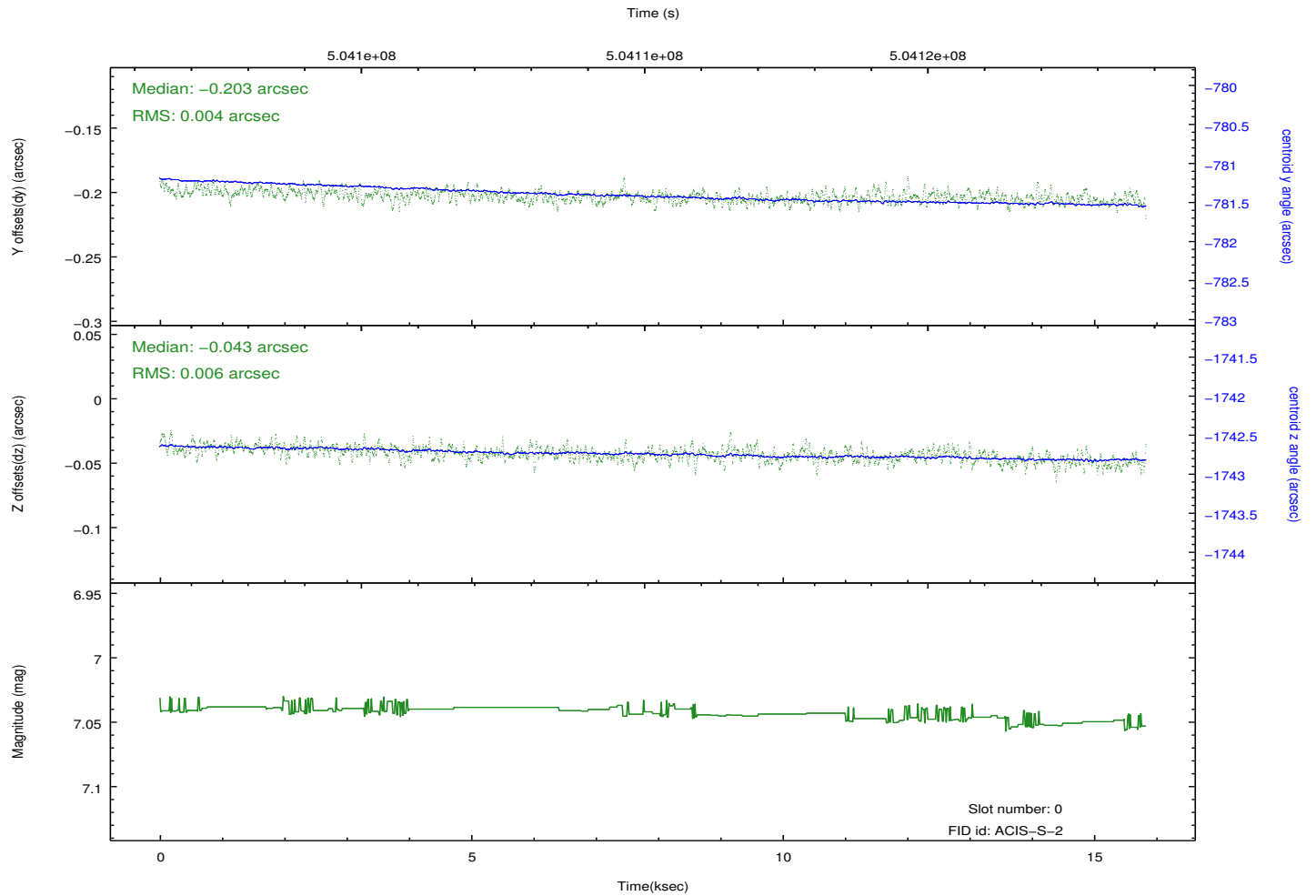
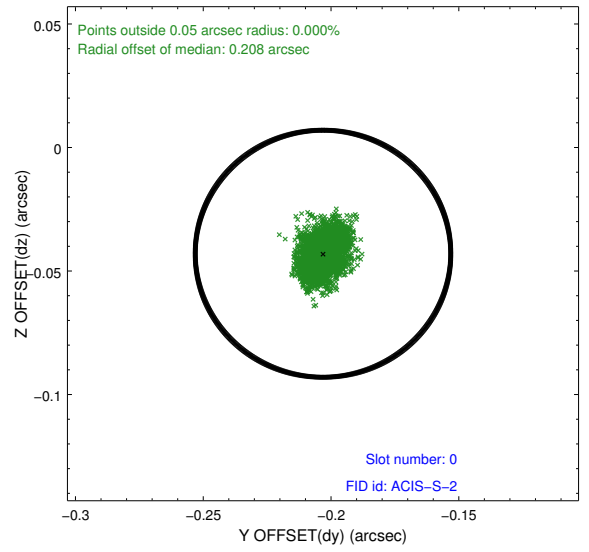
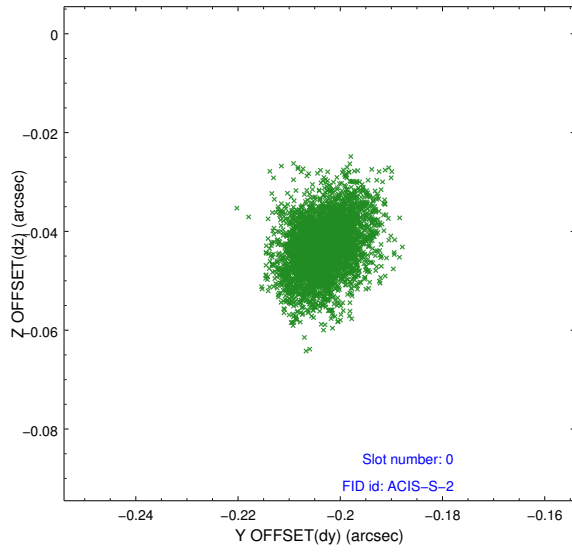


2.4.5 Slot 7

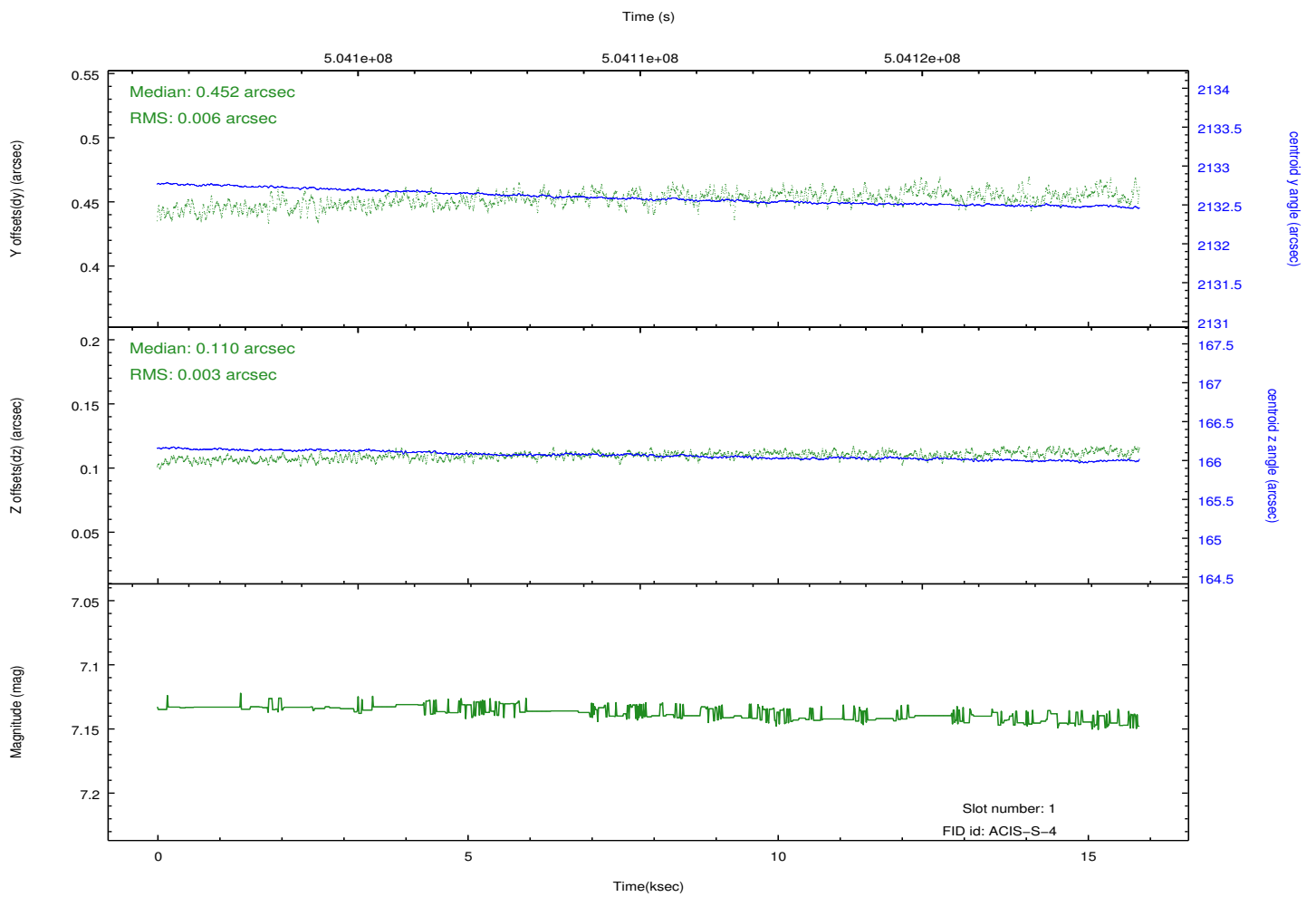
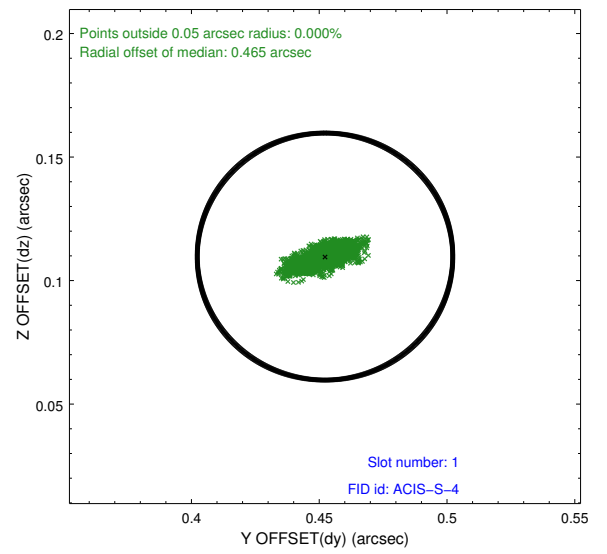
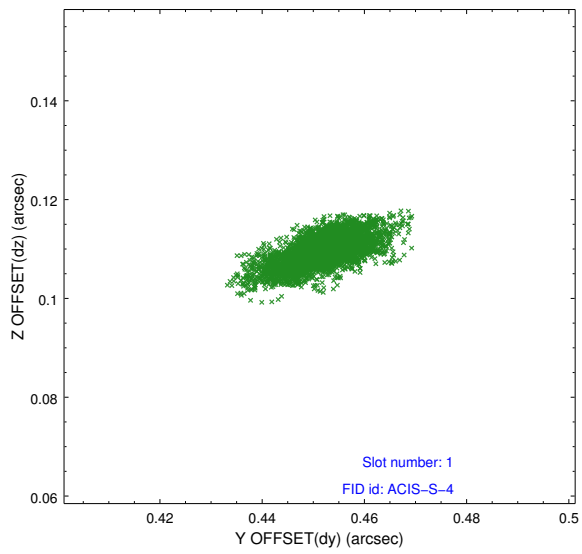


2.5 FID Slots

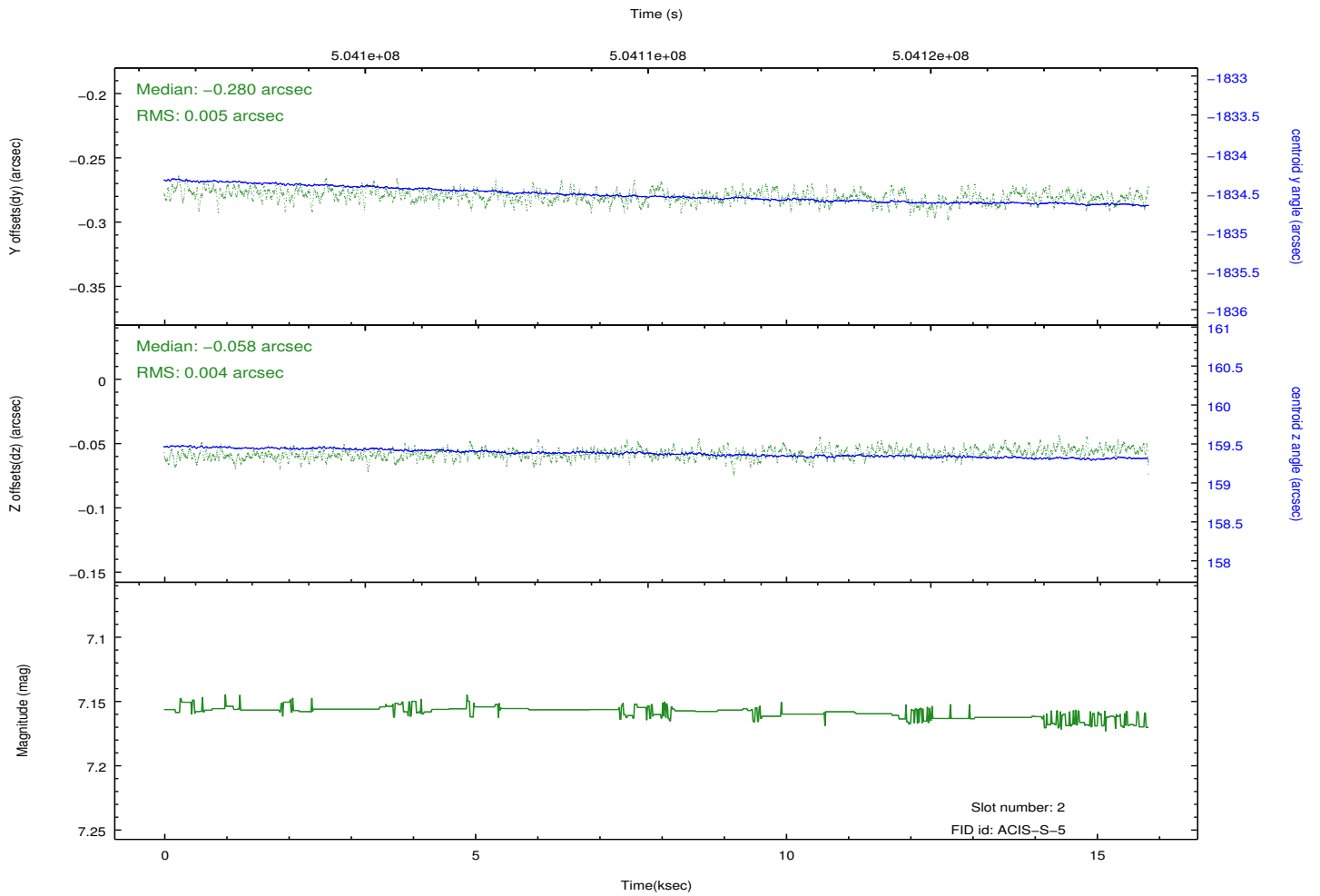
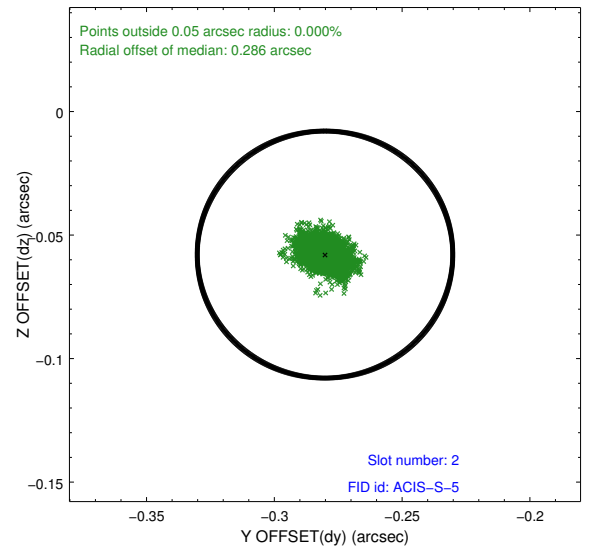
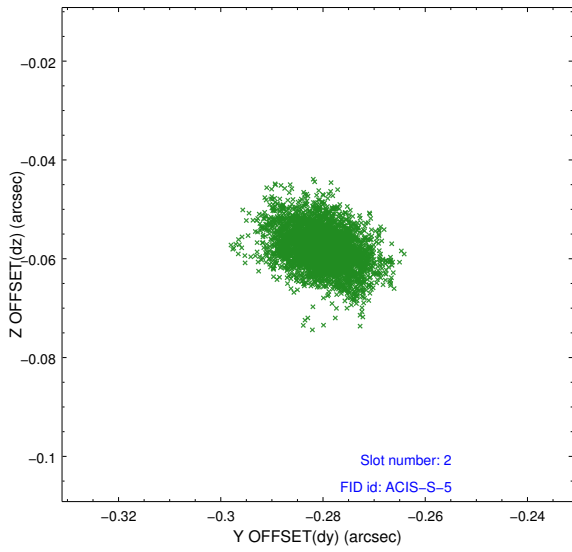
2.5.1 Slot 0



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)	2014.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.663999941707

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.