

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15286 - L2 Version 2
Chandra X-Ray Center

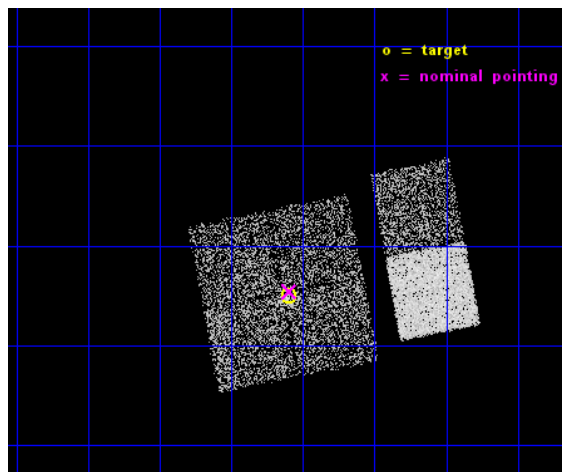
L2 Processing Date : Dec 1 2014

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1 Front

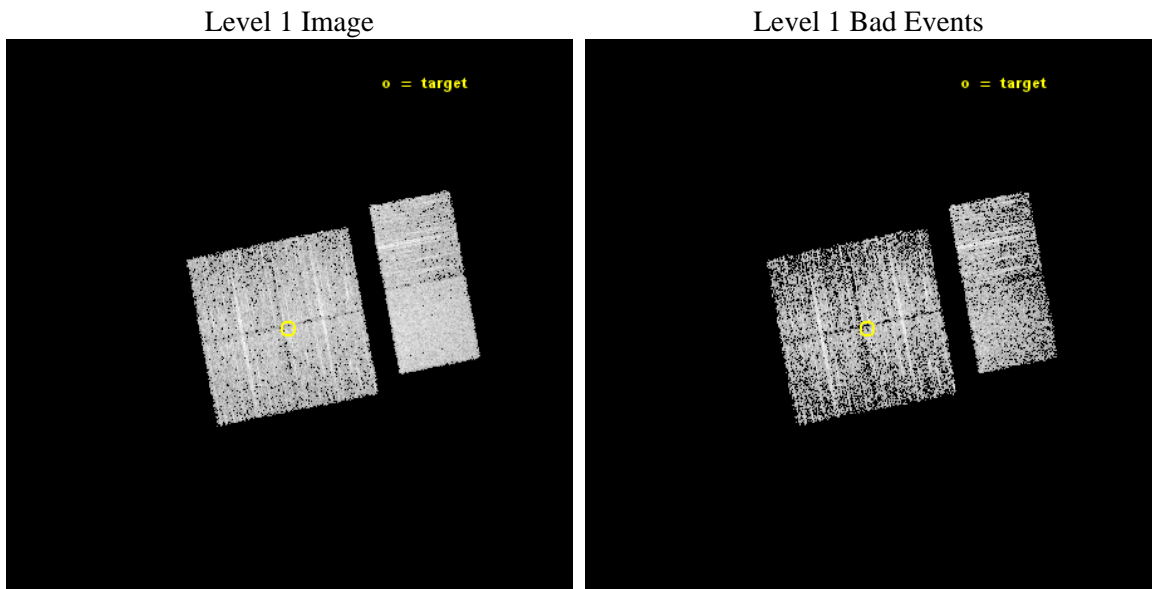
seq_num	801324	Sequence number
obs_id	15286	Observation id
title	Paving the way for eROSITA: with Chandra observations of the CODEX-BOSS clusters	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	CODEX 58014	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	211.774583	Observer's specified target RA [deg]
dec_targ	-0.250889	Observer's specified target Dec [deg]
ra_nom	211.7736541838	Nominal RA [deg]
dec_nom	-0.24273119602395	Nominal Dec [deg]
roll_nom	79.07996970735	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3971.1999852657	Sum of GTIs [s]
livetime	3920.9142598827	Livetime [s]
ontime0	3971.1999852657	Sum of GTIs [s]
ontime1	3971.1999852657	Sum of GTIs [s]
ontime2	3971.1999852657	Sum of GTIs [s]
ontime3	3971.1999852657	Sum of GTIs [s]
ontime6	3971.1999852657	Sum of GTIs [s]
ontime7	3971.1999852657	Sum of GTIs [s]
l2events	23504	Number of level 2 events



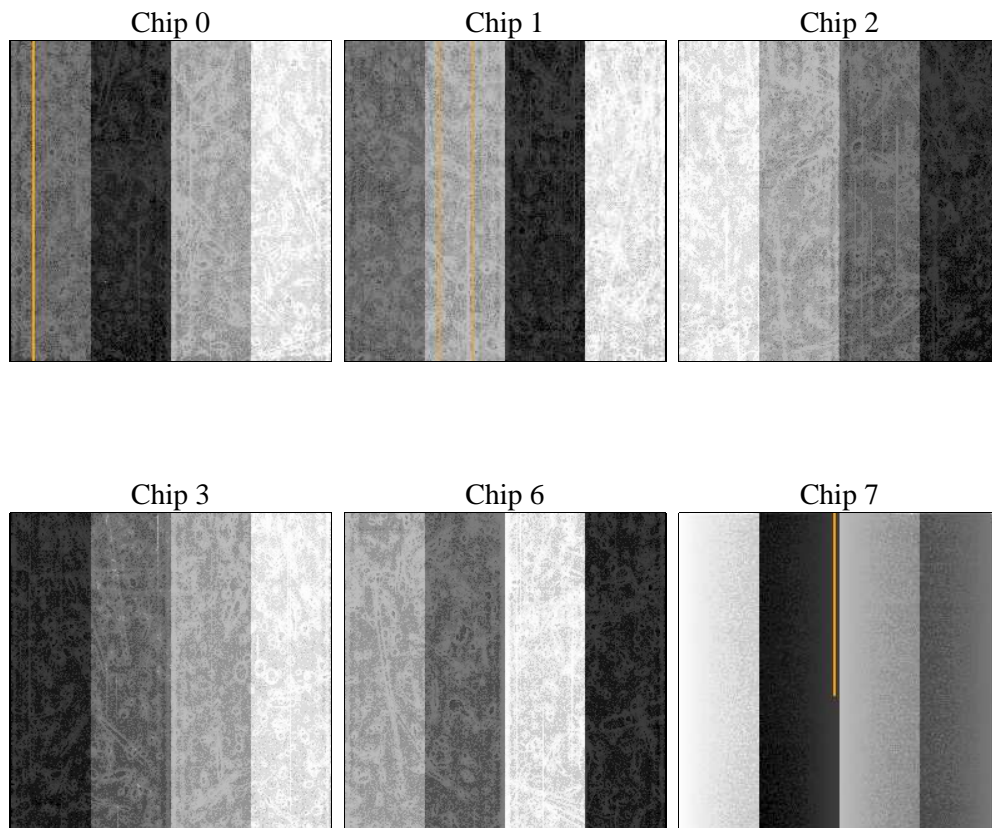
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	3971.1999852657	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	3971.1999852657	Sum of GTIs [s]
date	2014-12-01T17:03:19	Date and time of file creation	ontime1	3971.1999852657	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	3971.1999852657	Sum of GTIs [s]
			ontime3	3971.1999852657	Sum of GTIs [s]
			ontime6	3971.1999852657	Sum of GTIs [s]
			ontime7	3971.1999852657	Sum of GTIs [s]
			l1events	129630	Number of level 1 events

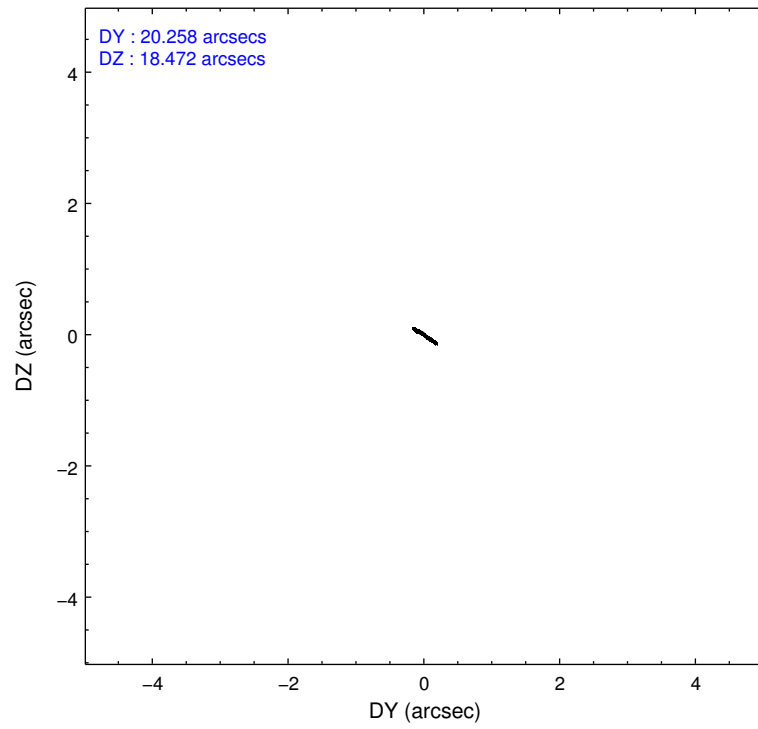
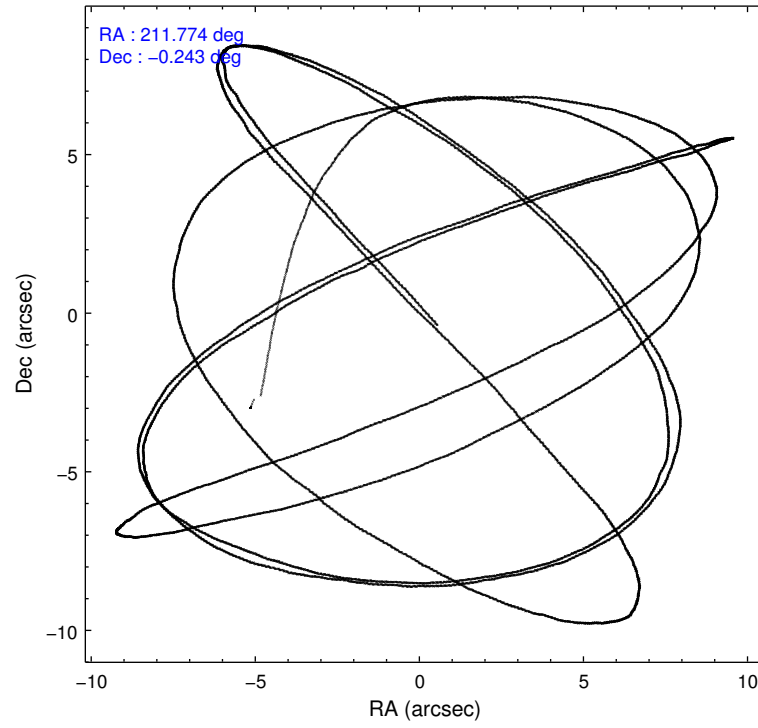
2.1.4 Events

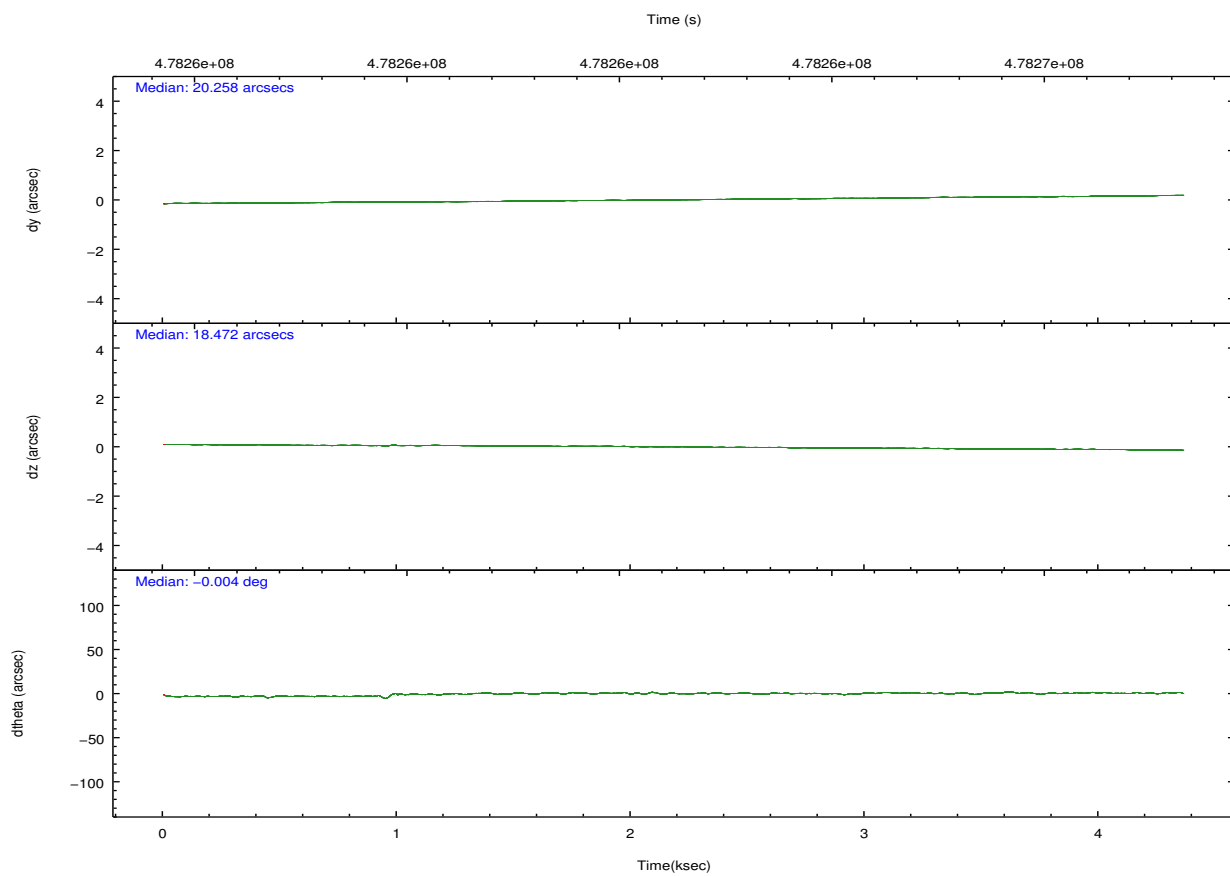
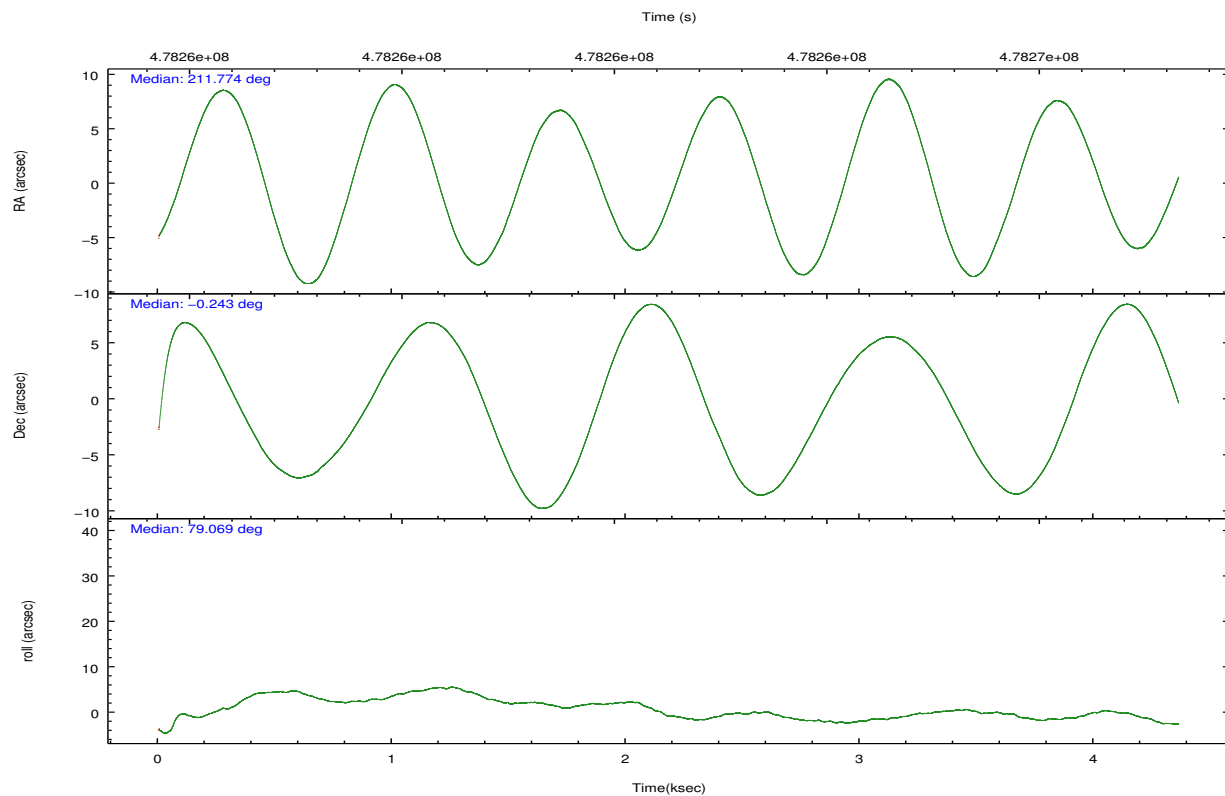
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	18497	19285	21245	19876	21609	29118	grade 0 events	903	1130	874	867	894	1167
rejected events	15973	16299	18792	17445	19045	16317		4%	5%	4%	4%	4%	4%
rejected %	86%	84%	88%	87%	88%	56%	grade 1 events	8	10	13	13	14	42
								0%	0%	0%	0%	0%	0%
							grade 2 events	633	704	634	530	553	2681
								3%	3%	2%	2%	2%	9%
							grade 3 events	261	307	233	266	278	1152
								1%	1%	1%	1%	1%	3%
							grade 4 events	217	256	242	280	266	1125
								1%	1%	1%	1%	1%	3%
							grade 5 events	933	1039	916	1063	1153	2983
								5%	5%	4%	5%	5%	10%
							grade 6 events	513	591	471	489	575	6684
								2%	3%	2%	2%	2%	22%
							grade 7 events	15029	15248	17862	16368	17876	13284
								81%	79%	84%	82%	82%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	211.782778	211.7736541837957	CCD I2 on	Y	Y
[deg] Pointing Dec	-0.268805	-0.2427311960239451	CCD I3 on	Y	Y
[deg] Pointing Roll	78.871321	79.07996970735029	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	478262448.184000	478261393.0169	CCD S5 on	N	N
Observation start date	2013-02-26T10:39:41	2013-02-26T10:23:13	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	478266448.184000	478267211.42976	On-chip summing requested	N	N
Observation end date	2013-02-26T11:46:21	2013-02-26T12:00:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



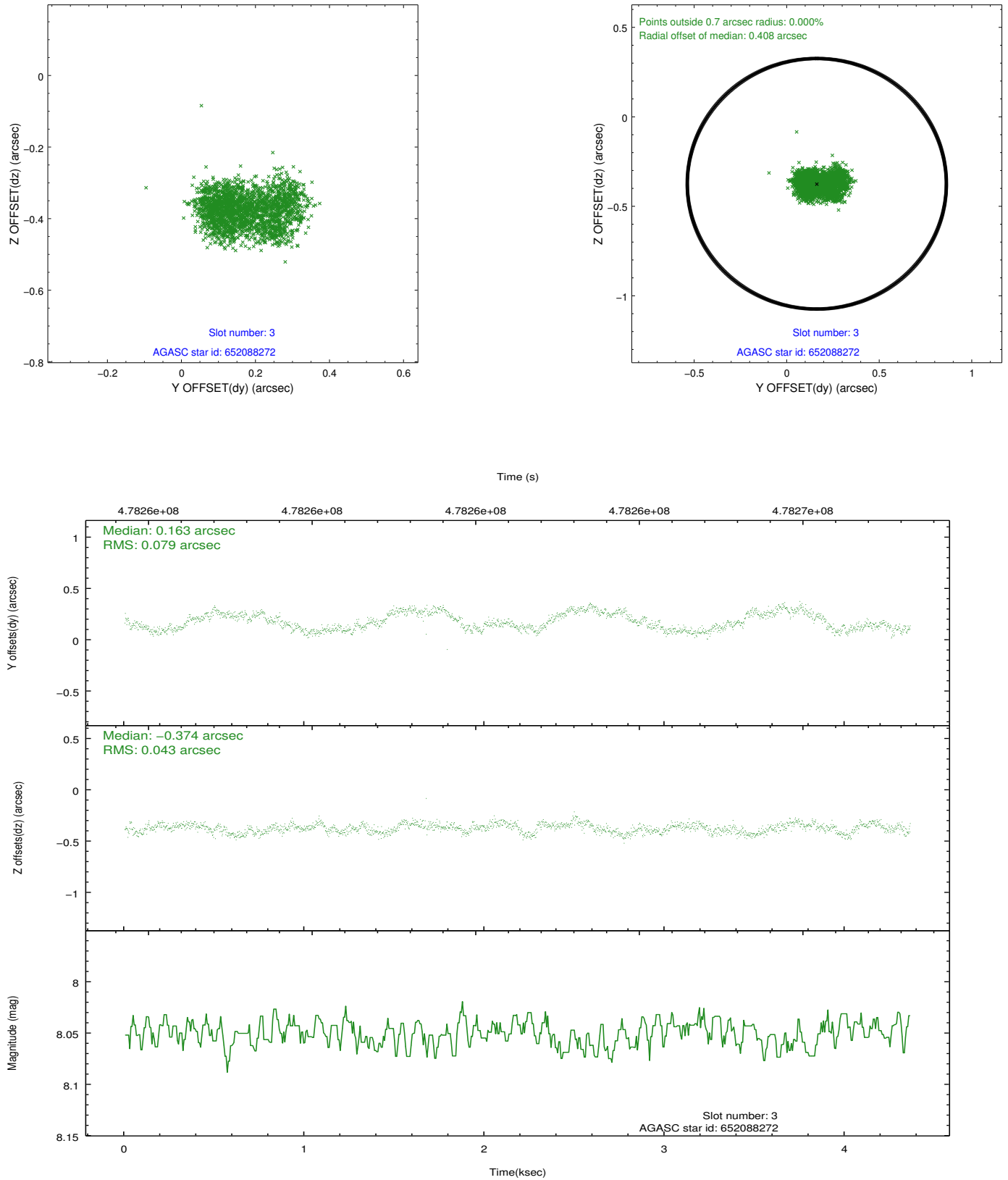


Slot Statistics

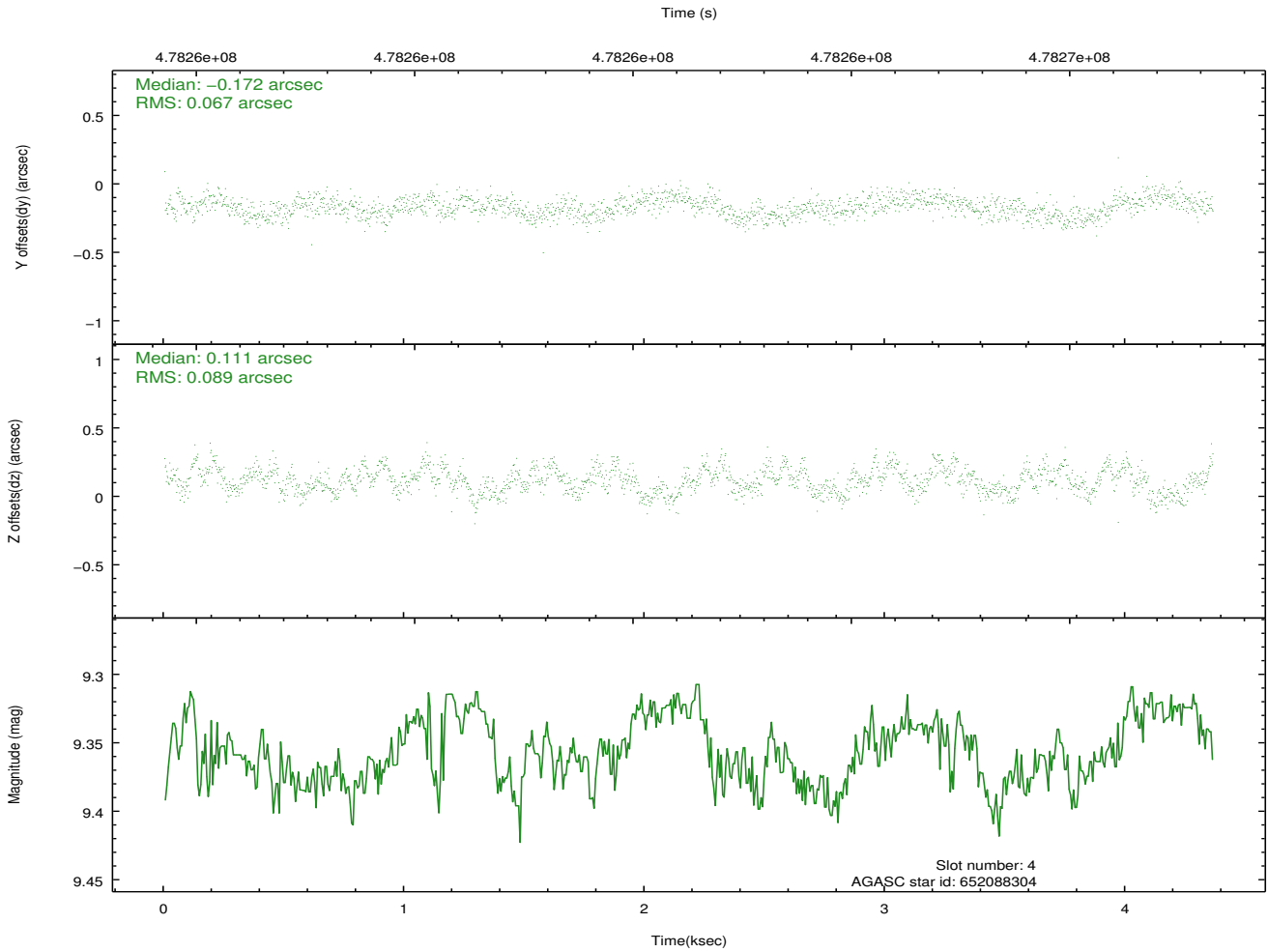
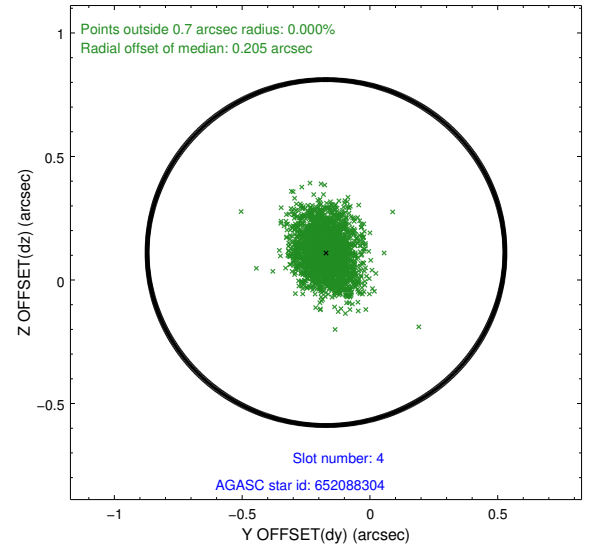
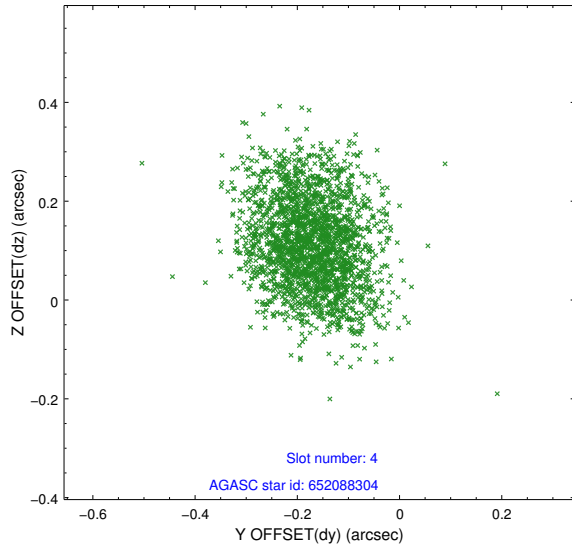
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.05	1064	-0.028	-0.001	0.013	0.031	0.000000	0.000000	919.05	-842.12
1	FID		ACIS-I-4	6.99	1064	0.211	0.037	0.012	0.025	0.000000	0.000000	2140.05	1057.06
2	FID		ACIS-I-5	7.04	1064	-0.282	0.035	0.011	0.019	0.000000	0.000000	-1827.45	1056.38
3	GUIDE	used	652088272	8.05	2127	0.163	-0.374	0.099	0.152	211.211664	-0.457843	-1064.80	1885.39
4	GUIDE	used	652088304	9.36	2127	-0.172	0.111	0.120	0.191	212.288668	-0.044607	1143.04	-1630.09
5	GUIDE	used	652088648	9.23	2123	-0.103	0.259	0.093	0.148	212.275276	-0.072918	1034.84	-1603.97
6	GUIDE	used	652090208	7.93	2128	0.013	0.114	0.076	0.119	211.916248	-0.190008	371.39	-417.35
7	GUIDE	used	41550960	9.15	2126	0.081	-0.110	0.120	0.210	212.513351	0.273289	2423.18	-2204.00

2.4 Star Slots

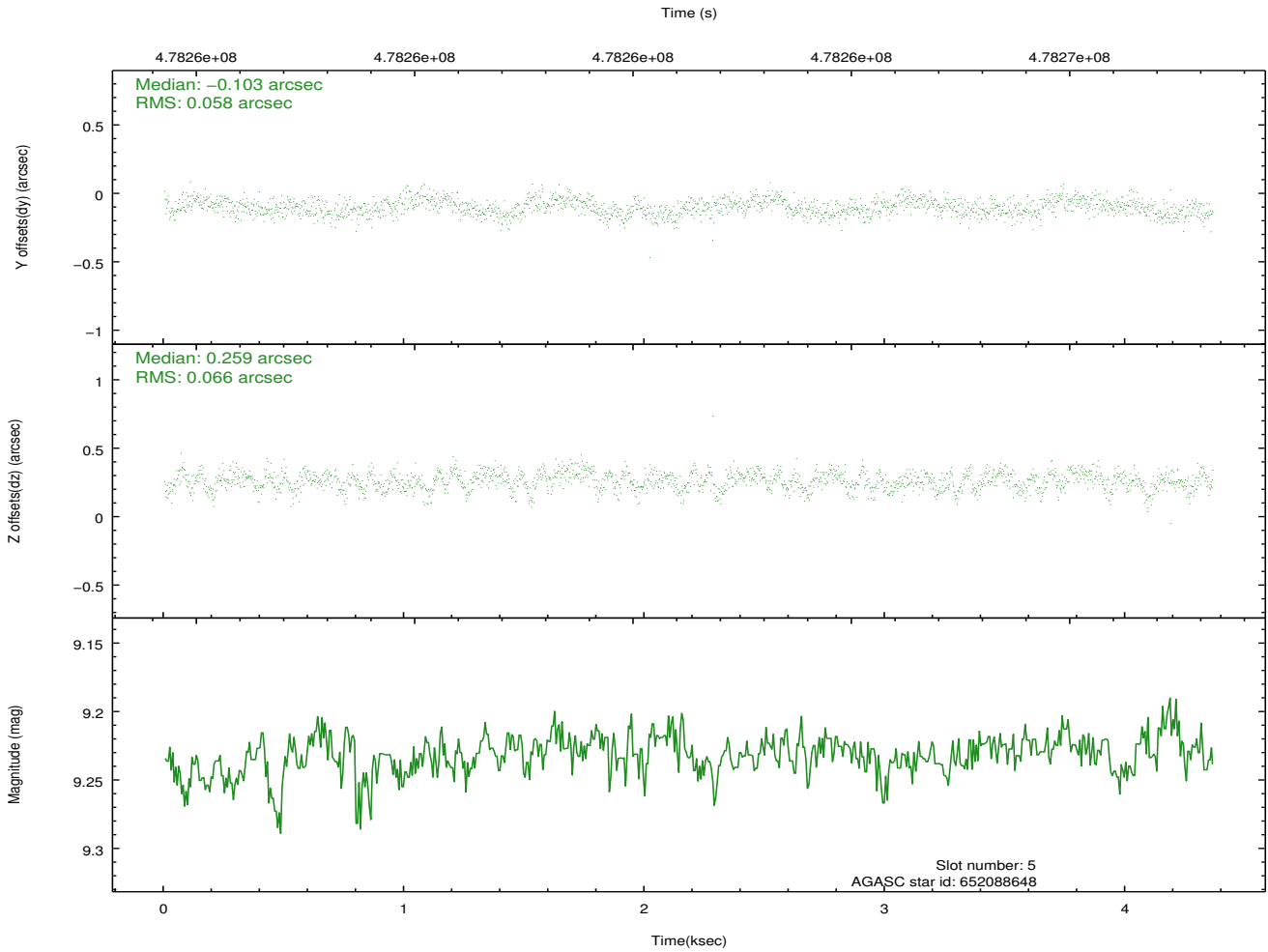
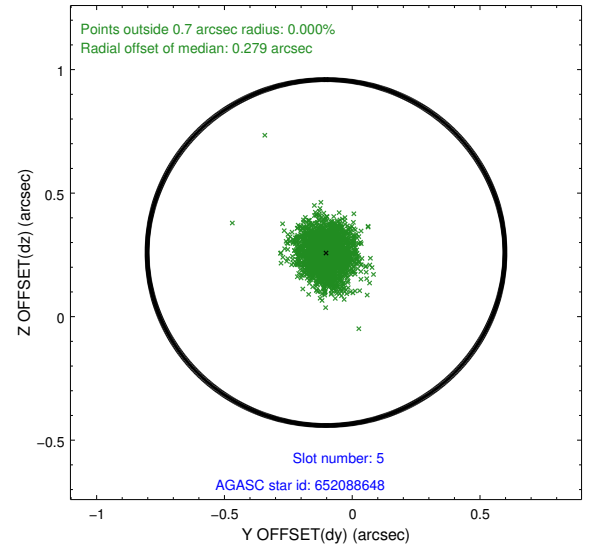
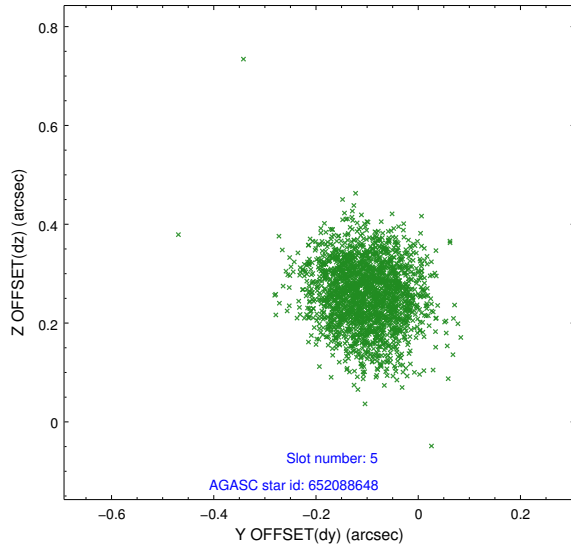
2.4.1 Slot 3



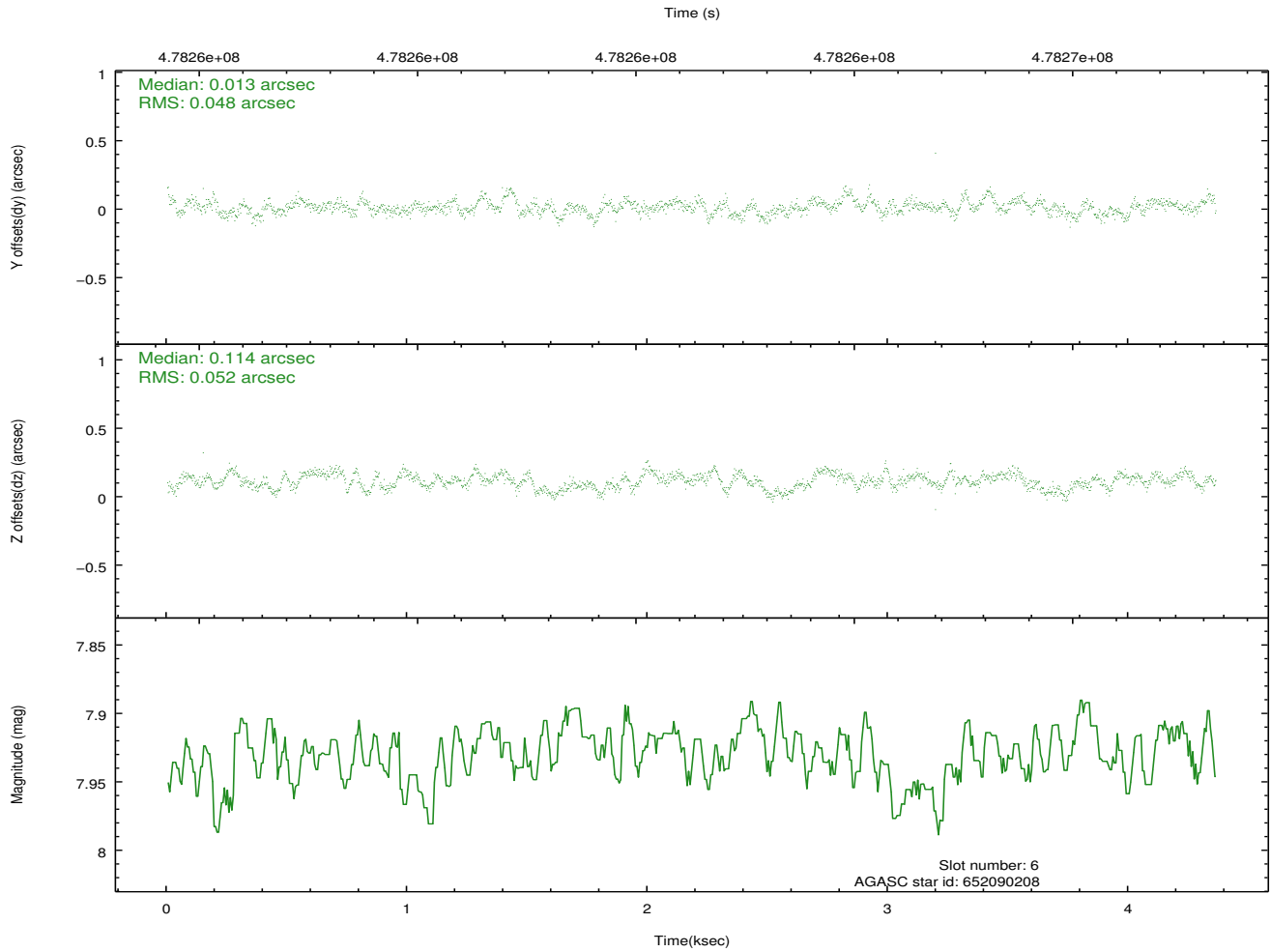
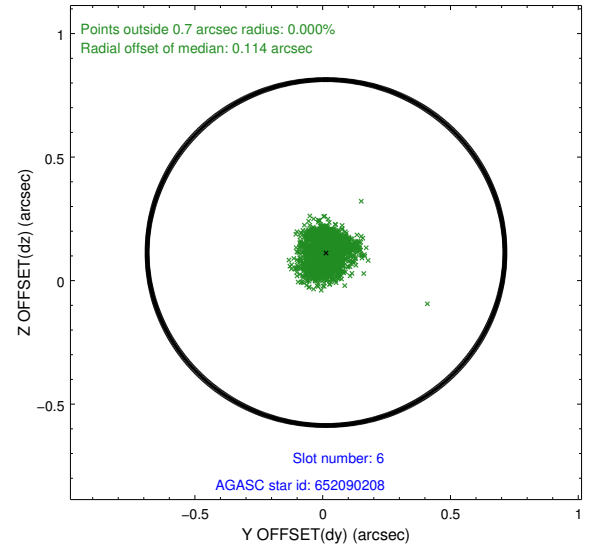
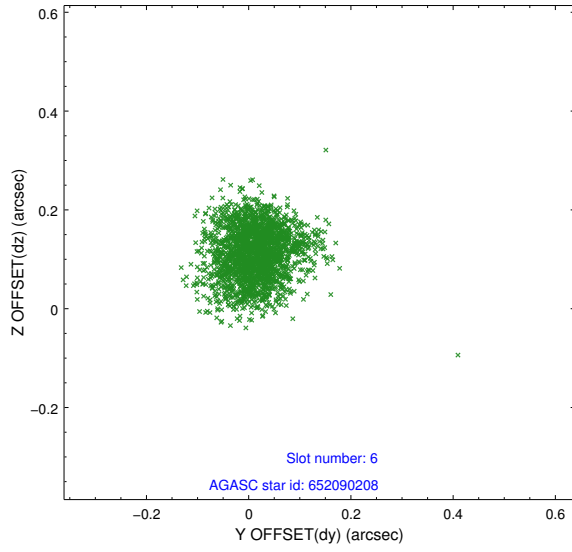
2.4.2 Slot 4



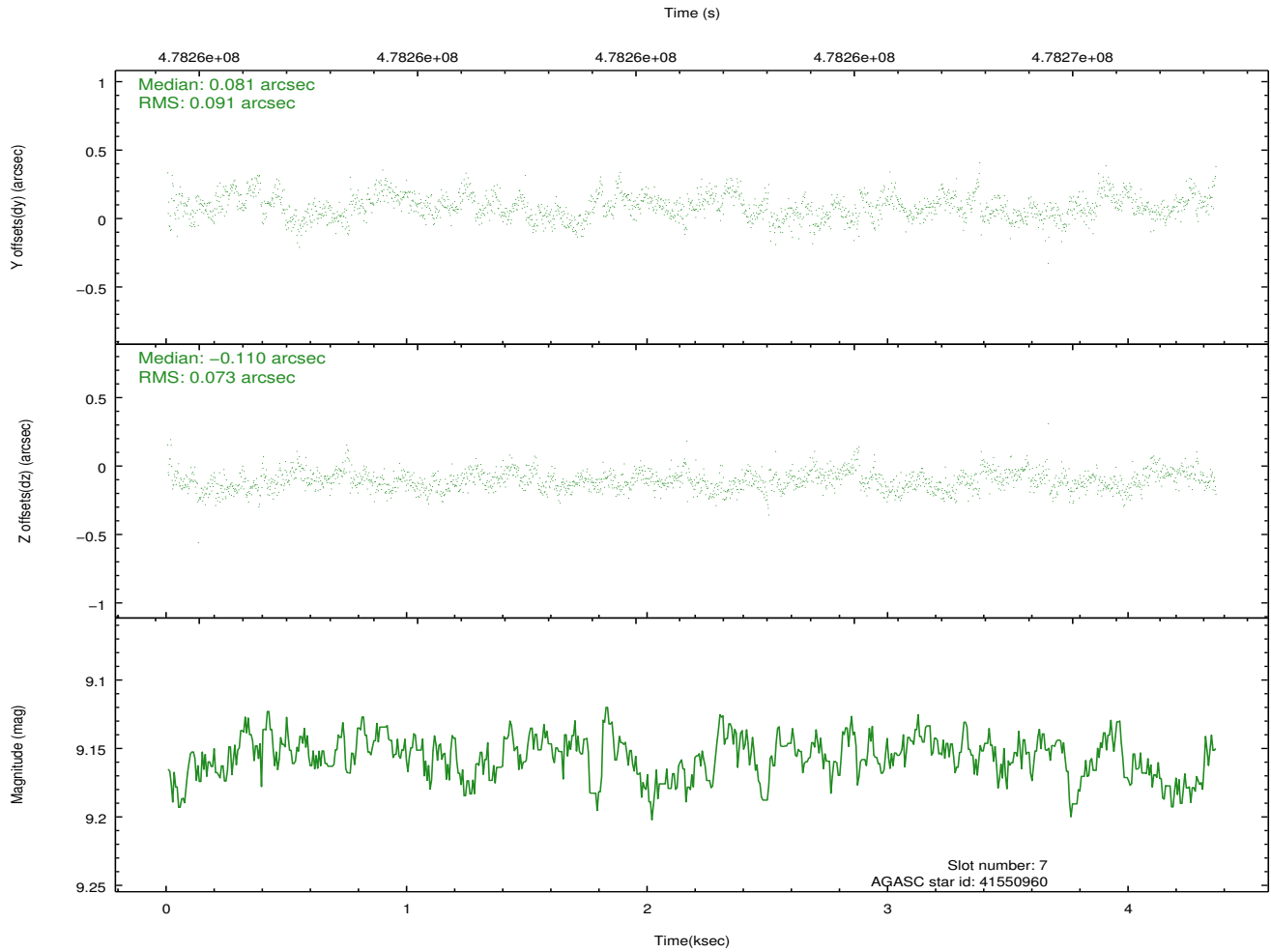
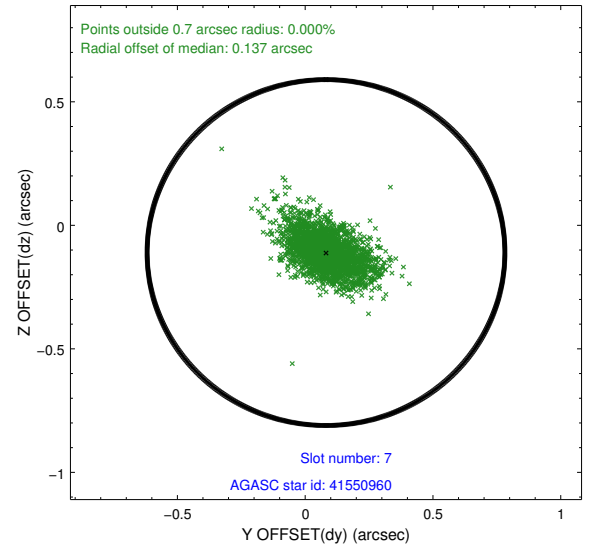
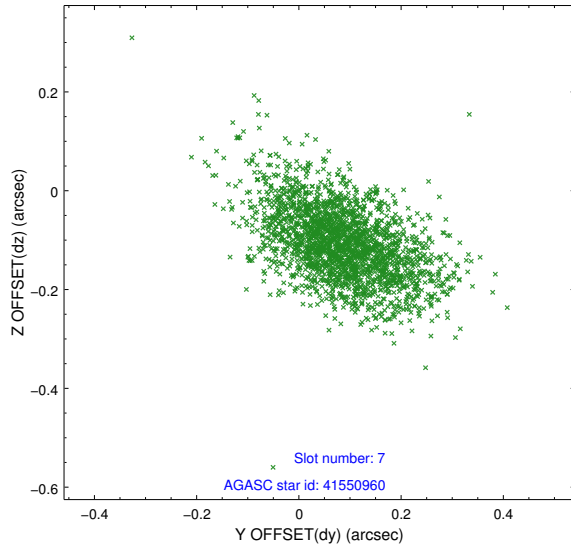
2.4.3 Slot 5



2.4.4 Slot 6

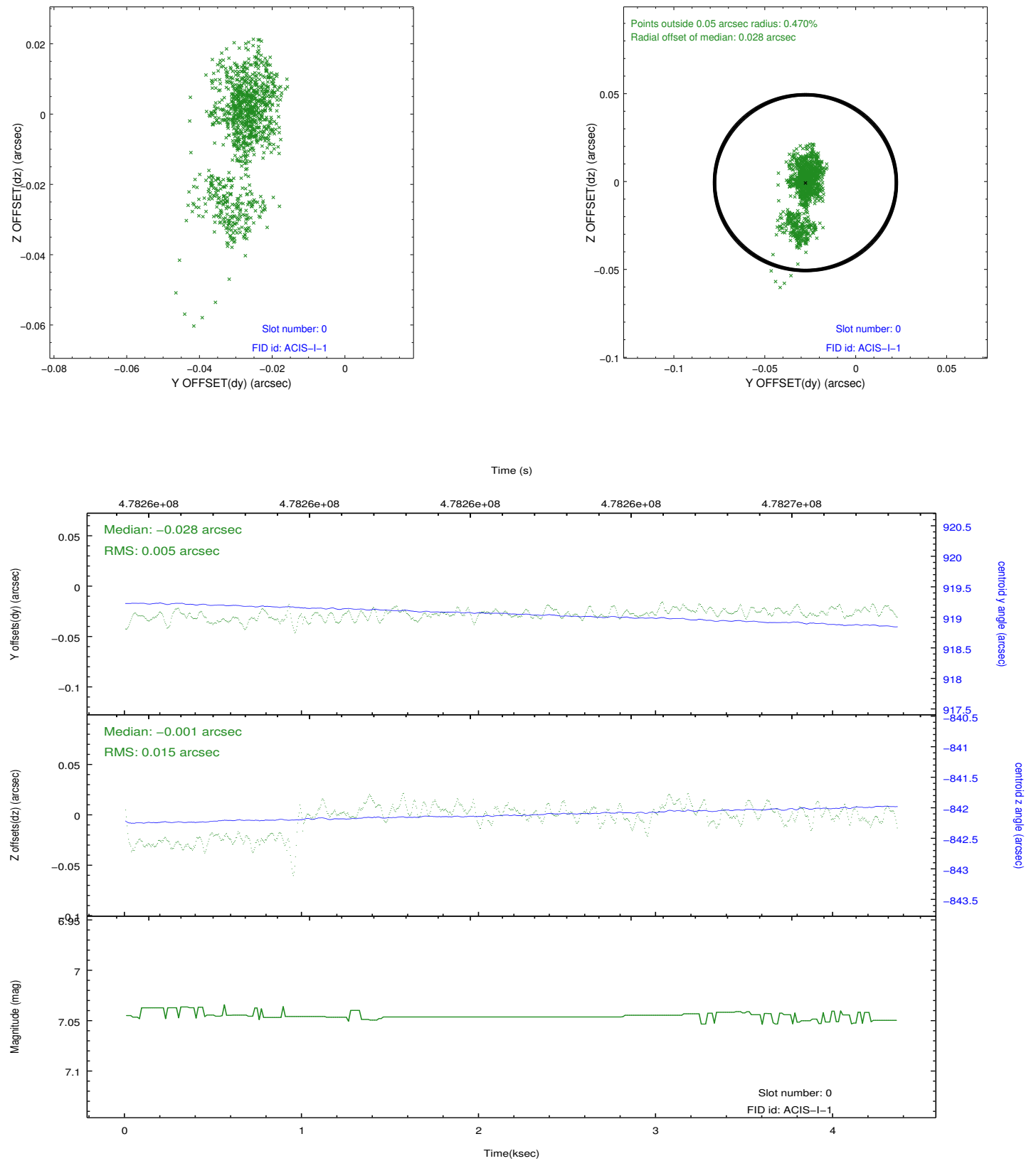


2.4.5 Slot 7

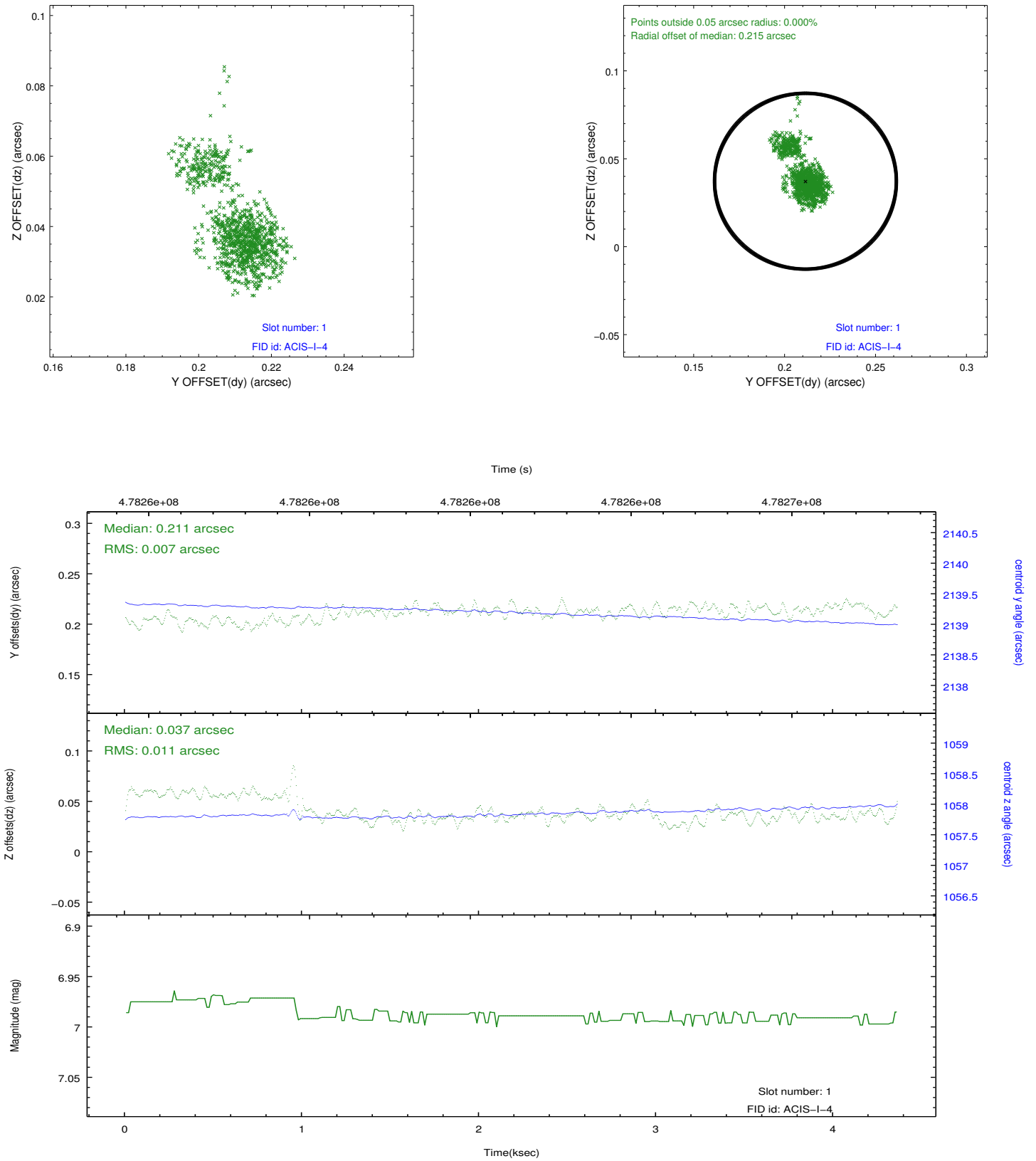


2.5 FID Slots

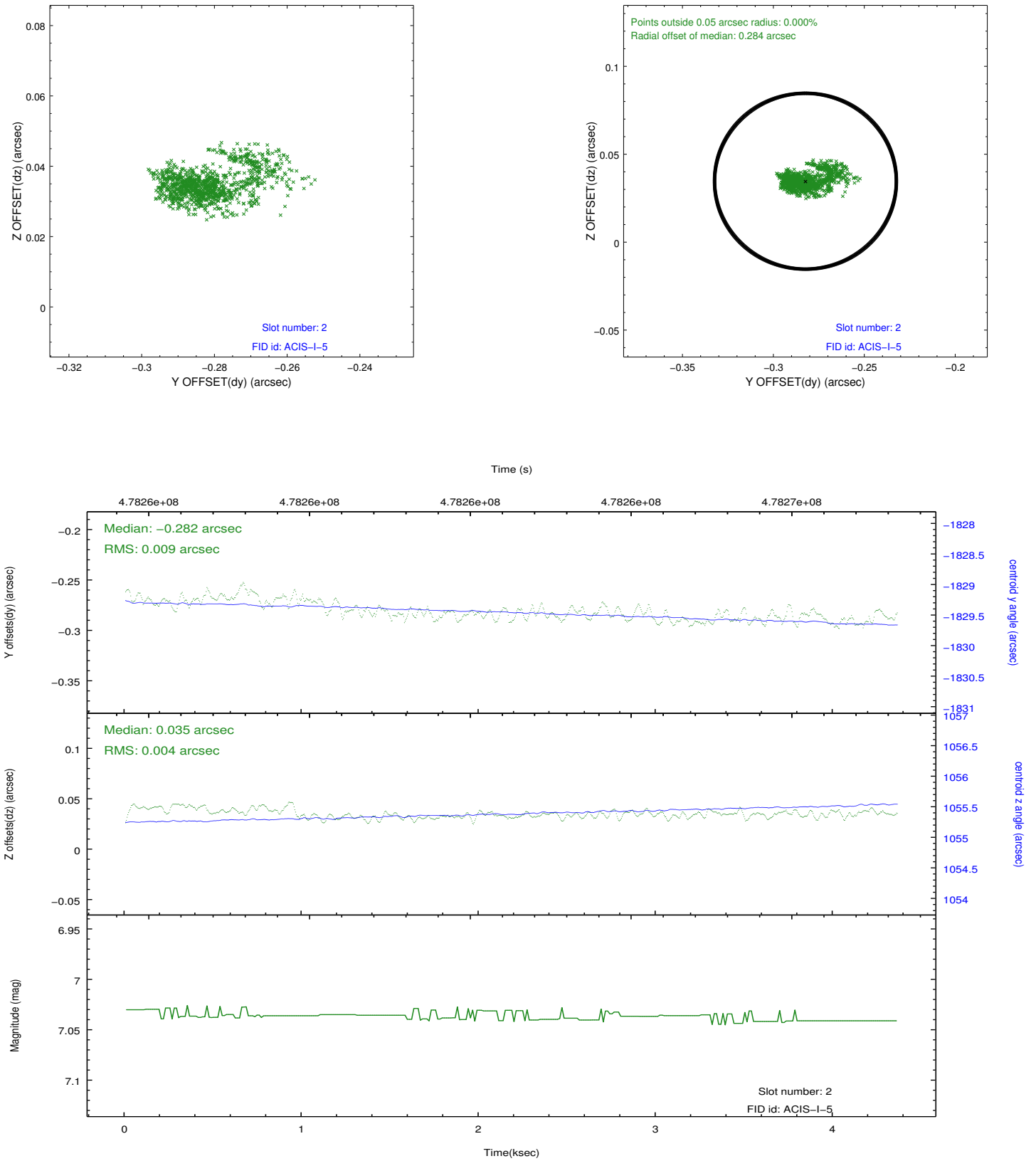
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.9711999852657

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.